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Bistatic-Radar Studies of the Moon with Explorer 35 Final Report: Part 2

Methods of Data Reduction and Reduced
Observations

by

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Final Report

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CENTER FOR RADAR ASTRONOMY

RADIOSCIENCE LABORATORY

STANFORD ELECTRONICS LABORATORIES

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ERRATA

<u>Text</u>	<u>Correction</u>
<p>page 8, 6th line from bottom "While the constants are in the radar..."</p>	<p>"While the constants in the radar..."</p>
<p>page 9, 9th line "(h_o/d_o) = mean lunar slope"</p>	<p>"(h_o/d_o) = root mean square lunar slope"</p>
<p>page 15, 3rd line $\frac{\partial}{\partial \epsilon} \left \frac{E_e}{E_r} \right ^2 = \dots$</p>	<p>$\frac{\partial}{\partial \epsilon} \left \frac{E_l}{E_r} \right ^2 = \dots$</p>
<p>7th line $\log_{10} \left \frac{E}{E_h} \right ^2 = \log_{10} e \left\{ \log_e \left \frac{E_L}{E_h} \right ^2 \right\}$</p>	<p>$\log_{10} \left \frac{E}{E_r} \right ^2 = \log_{10} e \left\{ \log_e \left \frac{E_l}{E_r} \right ^2 \right\}$</p>
<p>9th line $\frac{\partial}{\partial \epsilon} \left\{ \log_{10} \left \frac{E_l}{E_r} \right ^2 \right\} = \dots$</p>	<p>$\frac{\partial}{\partial \epsilon} \left\{ \log_{10} \left \frac{E_l}{E_r} \right ^2 \right\} = \dots$</p>
<p>Append to the first paragraph: "Asterisks have been inserted where one or more of the measured values have been deleted. Plots of both normalized bandwidth and normalized reflected power follow the data listings for each day. Where data points for both channels have the same value only symbol "B" is shown. "X" is used when the abscissa value exceeds 100° longitude."</p>	
<p>page 18, 2nd line "...are counted the first..."</p>	<p>"...are counted from the first..."</p>
<p>4th line "...Measured in hours..."</p>	<p>"...Measured both in hours..."</p>
<p>page 21, 11th line "reflectivity watts⁻¹ where"</p>	<p>"reflectivity (watts⁻¹) where"</p>
<p>20th and 21st lines "...wave with respect to an isotropic (S=10) antenna..."</p>	<p>"...wave (with respect to an arbitrary reference)..."</p>

ERRATA (No. 2)

Delete 3rd, 4th and 5th lines from the bottom of the first page of Table I.

Insert two new lines near the top of the second page of Table I so it reads:

216	2332	0012	0.98055540	0.00833333	XRD-123	XR-17	300	140	4	3.982
217	0012	0050	0.00833333	0.03472222	XRD-132	XR-17	525	123	4	1.999
217	0049	0110	0.03402778	0.04861111	XRD-133	XR-17	525	123	4	1.999
217	1347	1423	0.57430540	0.59930550	XRD-149	XR-18	525	123	4	1.999

SU-SEL-70-068

BISTATIC-RADAR STUDIES OF THE MOON WITH EXPLORER 35

FINAL REPORT: PART 2

Methods of Data Reduction and Reduced Observations

by

G. Leonard Tyler
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Final Report

Prepared under

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Center for Radar Astronomy
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A. INTRODUCTION

This volume is the latter portion of the final report on bistatic-radar studies of the moon carried out under a grant from the National Aeronautics and Space Administration, NGR 05-020-348. The first portion of this report describes the activities supported by the grant; the analysis effort, the software and specialized computer techniques developed, and the scientific context and conclusions of this work. In this part we describe the methods of data reduction, present a tabulation of the reflectivity and bandwidth data from Explorer 35, and, for selected portions of the data, present the complete polarization spectra. It is our intention to present the data in detail sufficient to permit its use by other workers. Interested workers may obtain copies of original tabulated data on magnetic tape.

In the sections to follow it is assumed that the reader has considerable familiarity with the concepts involved. An introduction to the subject is given in Tyler (1968a).

B. METHODS OF DATA REDUCTION

The overall Explorer 35 bistatic radar experiment has been described at some length elsewhere (Tyler et al., 1969). Data is obtained from passive observations of the portion of the Explorer 35 telemetry signal reflected from the lunar surface. The experiments are carried out using a dual circularly-polarized receiving system located in the Stanford Research Institute 150' dish antenna. The output of the receiving system (Tyler, 1968b) forms the basic data input. The basic step in the data reduction consists of the calculation of weighted Fourier transforms that are subsequently combined into reliable spectral estimates. This step is carried out digitally in conjunction with data sampling (Tyler, 1969). All additional data manipulations consist of operations on either the basic weighted Fourier transforms or the spectral estimates.

Data interpretation requires certain minimum ancillary information regarding the experimental geometry and the nature of the illuminating signals. The spacecraft coordinates and orientation as a function of time were obtained through the Explorer 35 project office (Goddard Space Flight Center, Greenbelt, Maryland). This information has been merged with the bistatic-radar observations. Theoretical predictions of the behavior of the bistatic-radar echoes have been given by Fjeldbo (1964). Certain theoretical parameters based on Fjeldbo's theory have also been calculated and merged with the data. The methods of calculation are described in a report (Tyler, 1968c) that describes the relation of these parameters to the spacecraft orbit.

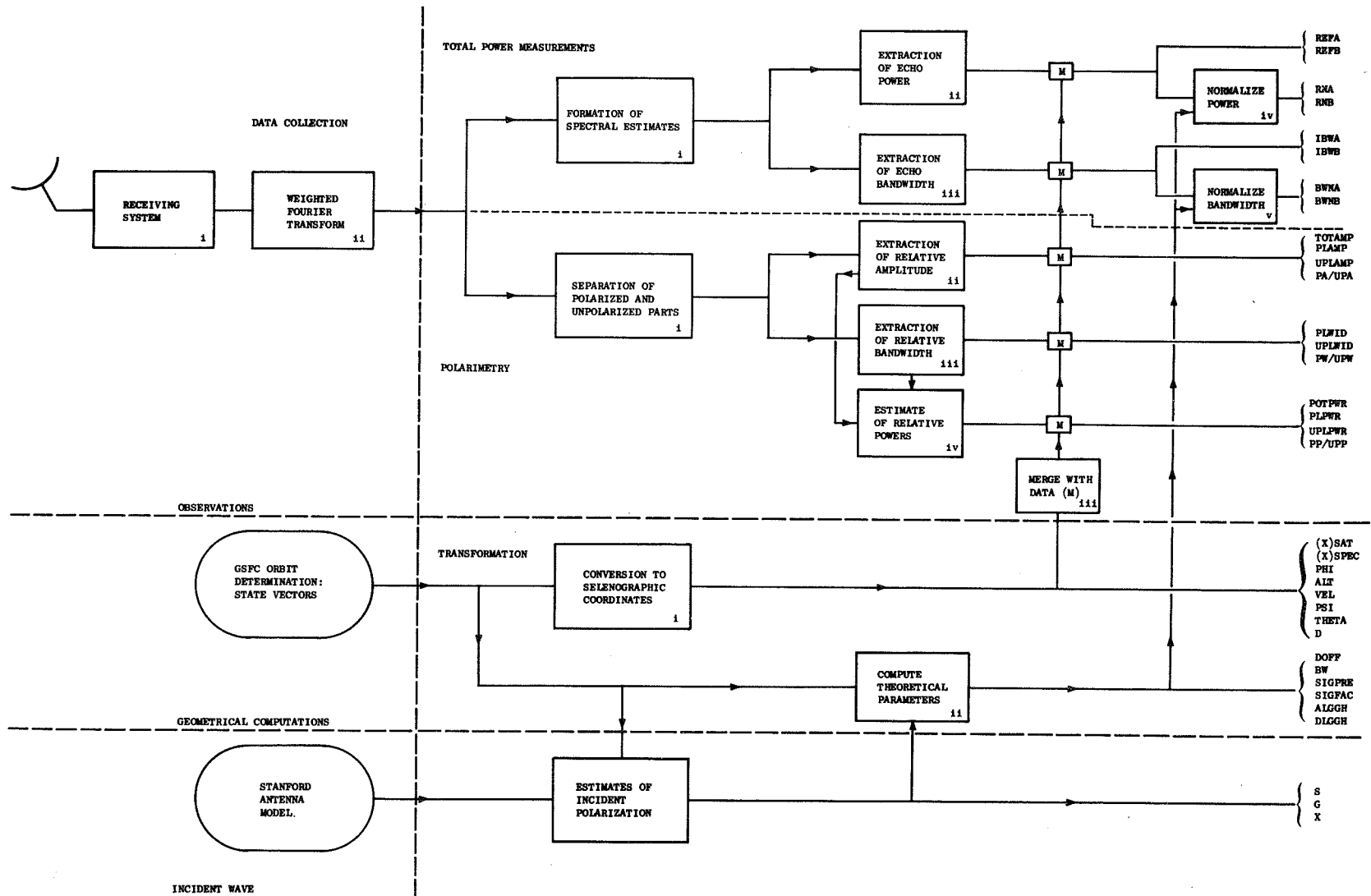


Figure 1

The overall data reduction process is made up of a considerable number of steps of varying degrees of complexity. Figure 1 is a block diagram of the process in which the major operations and data sources have been identified. Vertically, there are three major work areas; observations, related geometrical considerations, and the description of the incident waves. Horizontally, the diagram proceeds from left to right in the order of computation. The labels on the right of the diagram are those used to identify values in the tabulated data section of this report. Each step will be discussed in order below.

1. Observations

a. Data collection

i. Receiving system

Observations originate with the Stanford Research Institute 150' diameter dish antenna. In addition to gain, the receiving system provides a narrow passband filter situated at a fixed frequency offset from the directly propagating carrier signal. The passband may include the carrier. Both right and left circular polarizations are received simultaneously, and coherence is maintained between the signals from the two polarizations. The receiving system has been described previously (Tyler, 1968b).

ii. Weighted Fourier transforms

The analog output of the receiving system and appropriate timing signals are initially recorded on magnetic tape, for later reduction. The principal reduction step consists of analog-to-digital conversion, application of a sin-squared data window, and the computation of the

corresponding Fourier coefficients with the use of fast Fourier transform techniques. Sampling rates of either 256 or 512 Hz were used, depending on the receiver bandwidth. Time phase quadrature receiver outputs were used, so the sampling rate corresponds to the data bandwidth. The spectral analysis bandwidths are of either 1 or 2 Hz width depending on the sampling rate. The corresponding times spanned by these transforms are 1.0 or 0.5 sec, respectively. Coherence between the two polarizations was maintained throughout this step. An account of the digital processing has also been given previously (Tyler, 1969). The interested reader is referred to this account for details.

b. Total power measurements

i. Formation of spectral estimates

Spectral estimates were generated by summation of the weighted Fourier coefficients. If we let \hat{d}_i represent one of a long sequence of data samples, then these samples may be grouped according to

$$d_j^n = \hat{d}_i$$

where $i = n \cdot N + j$, $j \leq N$, and n , N and j are all positive integers. The weighted Fourier transforms in section a.ii. above are

$$f_k^n = \sum_{j=0}^{N-1} \sin^2\left(\frac{2\pi}{N} \cdot j + \frac{\pi}{N}\right) e^{i \frac{2\pi}{N} jk} d_j^n$$

which becomes the spectral estimates by

$$F_{k'} = \sum_{m=1}^M \sum_{\ell=1}^L |f_{Mk'+m}^{\ell}|^2, \quad m \leq M$$

where all the indices are integers. The variance of the estimates is approximately $(M \times L)^{-1}$ of the mean. Summation over ℓ represents integration in time, while that over m is equivalent to broadening the analysis window in frequency. Such summations are equivalent to "post-detection" averaging in analog spectral analysis schemes. The resulting $F_{k'}$'s are proportional to the energy received in the passband of width proportional to M/N in time proportional to L . The received power is proportional to M/N .

ii. Extraction of echo power

Echo power is extracted from the spectral estimates by determining the area under the spectrum corresponding to the echo. A representation of the spectra ($F_{k'}$) is given in Fig. 2.

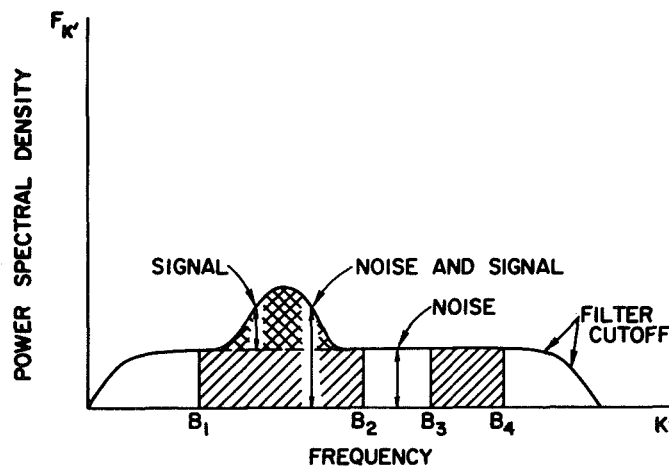


Figure 2

Here the B_i 's are pairs of frequencies which bracket two portions of the spectrum, one containing only the background noise and one containing the echo. Then, if

$$A_i = \int_0^{B_i} P(f)df \propto \sum_{k'=0}^{B_i/M} F_{k'} ,$$

the ratio of signal power to the spectral density of the noise is proportional to

$$\frac{(A_2 - A_1) - \frac{A_4 - A_3}{B_4 - B_3} \cdot (B_2 - B_1)}{\frac{A_4 - A_3}{B_4 - B_3}} \quad (\text{Hz})$$

Since the system temperature, T_{sys} , of the receiver was known and $(A_4 - A_3) \propto kT(B_4 - B_3)$, where k is the Boltzmann's constant, the echo power could be determined. The procedure outlined above was carried out for all of the Explorer 35 data. Each spectral estimate, or spectrum, was plotted and the plot checked to determine that the data at that time were free of interfering signals, that the receivers were operating properly and that the echo was in the position predicted from orbital considerations. The limits B_i were chosen to include all of the detectable echo and a representative (i.e., free from spurious signals) noise sample. Usually the same limits were used for the two polarizations. The accuracy of the total power measurements varies with both the bandwidth and strength of the echo. Since system temperature is used as a power reference, systematic errors are believed to be quite small. Relative

power measurements, i.e., comparisons among all measurements on the same day on the same polarization, are probably in error by about one percent.

iii. Extraction of echo bandwidth

Echo bandwidths were determined by direct measurement on the spectra plots. In Fig. 3 the width of the spectra one-half way between the noise level and the peak was scaled and recorded. No compensation for echo shape or signal-to-noise ratio has been included. All the data were scaled by the same individual, with cross checks by others, to insure internal consistency. Thus the bandwidth measurements are somewhat subjective, but have absolute error bounds of about ± 10 percent for the narrower bandwidths. Errors on the larger bandwidths are considerably smaller.

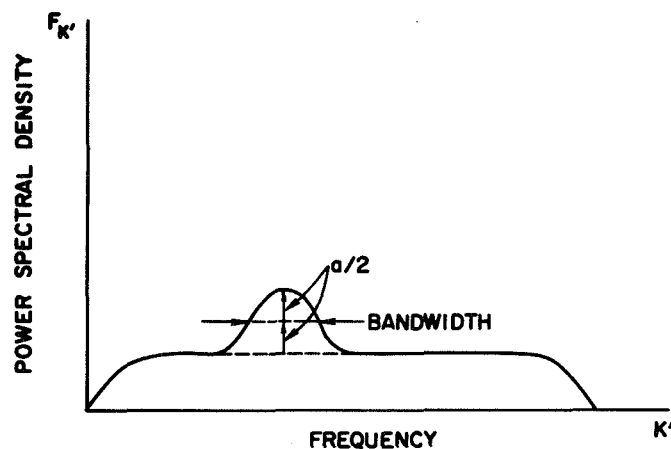


Figure 3

iv. Normalized power

In the radar equation

$$P_R = \frac{P_T G_T}{4\pi R_1^2} \cdot \frac{\sigma_B \cdot \rho}{4\pi R_2^2} \cdot A$$

where

P_R = received power

P_T = transmitted power

G_T = gain of transmitting antenna

R_1 = range from transmitter to target

R_2 = range from target to receiver

σ_B = bistatic-radar cross-section of a conducting
sphere (after Fjeldbo, 1964)

ρ = specular reflection coefficient of lunar surface

A = effective aperture of receiving antenna

Thus

$$\rho = \frac{P_R (4\pi)^2 R_1^2 R_2^2}{A P_T G_T \sigma_B}$$

is a measure of the reflectivity of the lunar surface. The quantity normalized power in Fig. 1 is total echo power corrected for R_1 , R_2 , $P_T G_T$, A , and σ_B as above. While the constants are in the radar equation are not known precisely (e.g., P_T and A are uncertain), variations in R_1 , R_2 and σ_B are known to the same precision as the orbit or about one-tenth of one percent. The transmitter antenna gain G_T has been measured to a few percent. Variations in ρ then are generally limited by the accuracy of P_R .

v. Normalized bandwidth

Fjeldbo gives a theoretical expression for the echo bandwidth

$$\Delta f = 4(2 \ln 2)^{\frac{1}{2}} \frac{v_s}{\lambda} \left(\frac{h_o}{d_o} \right) \cos \varnothing$$

where v_s = velocity of the center of the first Fresnel zone
on the mean lunar surface

λ = wavelength of the radiation (2.2 m)

\varnothing = angle of incidence at the center of the first
Fresnel zone on the mean lunar surface

$\left(\frac{h_o}{d_o} \right)$ = mean lunar slope

Measured bandwidths have been normalized by Δf , computed for $h_o/d_o = 0.1$.

c. Polarimetry

i. Separation of polarized and unpolarized components

The polarized and unpolarized parts of the echo signal may be separated by their statistical behavior. Following the notation introduced in section 1.b.i., the normalized coherency matrix of the signals

$$\underline{\rho}_k = \begin{pmatrix} \sum_{n=1}^N |1^{f_k n}|^2 & \sum_{n=1}^N 1^{f_k n} 2^{f_k n*} \\ \sum_{n=1}^N 1^{f_k n*} 2^{f_k n} & \sum_{n=1}^N |2^{f_k n}|^2 \end{pmatrix} \cdot \frac{1}{\sum_{n=1}^N |1^{f_k n}|^2 + \sum_{n=1}^N |2^{f_k n}|^2}$$

$$= \begin{pmatrix} \rho_{11} & \rho_{12} \\ \rho_{21} & \rho_{22} \end{pmatrix}$$

where 1^f and 2^f represent signals received on two orthogonal polarizations. It follows that the fractional polarization γ is

$$\gamma_k = \left\{ 1 - 4 \text{ Det } \underline{\rho}_k \right\}^{\frac{1}{2}}$$

Knowing γ_k , the polarized part of the spectrum is

$$\gamma_k \cdot \sum_{n=1}^N \left\{ |1^f_k|^2 + |2^f_k|^2 \right\}$$

while the unpolarized part is the complement

$$(1 - \gamma_k) \cdot \sum_{n=1}^N \left\{ |1^f_k|^2 + |2^f_k|^2 \right\}$$

Note that a polarization spectrum is obtained as a function of the frequency index k . These spectra are the subject of section D of this report.

ii. Extraction of relative amplitudes

The relative amplitudes of the polarized and unpolarized parts have been obtained by measuring the distance from the noise baseline to the peak of the echo. The ratio of polarized to unpolarized amplitude is computed from the measured values.

iii. Extraction of relative bandwidths

The relative bandwidths of the polarized and unpolarized parts have been obtained by measuring the width of the echo one-half of the distance

between the noise baseline and the peak. The ratio of the polarized to unpolarized is computed from the measured values.

iv. Relative power

An estimate of relative polarized and unpolarized powers is obtained from the products of the ratios described in sections 1.c.ii. and 1.c.iii. above. To the extent that the shapes of the polarized and unpolarized echo spectra are constant, variations in this ratio are proportional to variations in the polarized and unpolarized echo powers. No corrections have been made for propagation effects or the other factors in the radar equation.

2. Computations based on geometry

a. Orbit determinations

Orbit determinations were carried out by personnel of the Goddard Space Flight Center. Integrated trajectories were supplied in the form of successive state vectors that give the positions of the spacecraft, moon and earth on five minute centers. These data were interpolated to the midpoints of the integration interval for each spectral estimate. The orientation of the spacecraft was supplied as a similar function of time.

b. Transformation and theoretical parameters

i. Conversion to selenographic coordinates

The Goddard Space Flight Center supplied state vectors were converted to selenographic coordinates by a standard coordinate rotation. An outline of the procedure is given elsewhere (Tyler, 1968c).

ii. Computation of theoretical parameters

Certain theoretical parameters are needed to render the data in a more convenient form for interpretation and to provide model predictions for comparison. Two examples of such calculations have already been described under the sections concerning the normalization of the power and bandwidth observations. In addition to these normalizing factors the parameters calculated are the ratios of bistatic-radar cross-section of a conducting sphere under the experimental geometry to the monostatic cross-section at infinite range, and the polarization transformation of a uniform dielectric interface under the experimental geometry. Each of these terms will be discussed separately below.

Doppler offset: The Doppler offset is the difference in frequency between the wave which propagates directly from the spacecraft to the observer and the mean frequency of the echo spectrum, rendered in the sense echo frequency minus direct frequency. The method of computation is given in Tyler (1968c).

Echo bandwidth: Computation of echo bandwidth has been discussed previously in this report in section 1.b.v.

Radar equation constants: The radar equation constant

$$\frac{(4\pi)^2 R_1^2 R_2^2}{A P_T G_T \sigma_B}$$

is discussed in section 1.b.iv. The expression for bistatic radar cross-section σ_B is given immediately below.

Bistatic-radar cross-section: Following Fjeldbo (1964) the bistatic-radar cross-section of a conducting sphere the same radius as the moon is

$$\sigma_B = \frac{4\pi R_1^2 \cos \emptyset}{\left(\cos \emptyset + \frac{2 d_{or}}{R_{\zeta}}\right) \left(1 + \frac{2 d_{or} \cos \emptyset}{R_{\zeta}}\right)}$$

where R_1 = distance from transmitter to the center of the moon
 R_{ζ} = lunar radius
 \emptyset = angle of incidence to mean lunar surface at the center of the first Fresnel zone on the mean lunar surface
 d_{or} = distance from the transmitter to the center of the first Fresnel zone on the mean lunar surface

Transformation of polarization: Assuming a wave whose propagation is described by $e^{-j(\omega t - \vec{k} \cdot \vec{r})}$, let

$$\begin{aligned} \bar{a}_l &= \bar{a}_v + j \bar{a}_h & \bar{a}_v \cdot \bar{k}, \bar{a}_h \cdot \bar{k} &= 0 \\ \bar{a}_r &= \bar{a}_v - j \bar{a}_h & \bar{a}_v \cdot \bar{a}_h &= 0 \\ & & |\bar{a}_v| &= |\bar{a}_h| = 1 \end{aligned}$$

represent left and right rotating circular polarizations respectively. Then a general elliptical wave may be written as

$$\bar{E} = E_0 \left(\sqrt{1 - q^2} \bar{a}_l + q e^{j\emptyset} \bar{a}_r \right)$$

where q and \varnothing are constants. After reflection from a plane interface the ratio of power in left circular polarization to that in right circular polarization is

$$\frac{|E_l|^2}{|E_r|^2} = \frac{\rho_v^2 + \rho_h^2 + 2\rho_v \rho_h(1 - 2q^2) + 2(\rho_v^2 - \rho_h^2) \cdot q \cdot \cos \varnothing \cdot \sqrt{1 - q^2}}{\rho_v^2 + \rho_h^2 - 2\rho_v \rho_h(1 - 2q^2) + 2(\rho_v^2 - \rho_h^2) \cdot q \cdot \cos \varnothing \cdot \sqrt{1 - q^2}}$$

where ρ_v and ρ_h are the reflection coefficients (assumed real) for electric fields aligned with \bar{a}_v and \bar{a}_h respectively. Usually these will represent the vertical (in plane of incidence) and horizontal (normal to the plane of incidence) directions with respect to a dielectric interface. In that case ρ_v and ρ_h are simply the Fresnel coefficients.

$$\rho_v = \frac{\epsilon \cos \varnothing - \sqrt{\epsilon - \sin^2 \varnothing}}{\epsilon \cos \varnothing + \sqrt{\epsilon - \sin^2 \varnothing}}$$

$$\rho_h = \frac{\cos \varnothing - \sqrt{\epsilon - \sin^2 \varnothing}}{\cos \varnothing + \sqrt{\epsilon - \sin^2 \varnothing}}$$

where ϵ is the dielectric constant and \varnothing is the angle of incidence.

Letting $g = \rho_v^2(1 + 2 \cdot q \cdot \sqrt{1 - q^2} \cdot \cos \varnothing) + \rho_h^2(1 - 2 \cdot q \cdot \sqrt{1 - q^2} \cdot \cos \varnothing)$
and $h = 2\rho_v \rho_h(1 - 2 \cdot q^2)$

$$\frac{|E_l|^2}{|E_r|^2} = \frac{g + h}{g - h}$$

Equally important is the sensitivity of this ratio to dielectric constant, or

$$\frac{\partial}{\partial \epsilon} \left| \frac{E_e}{E_r} \right|^2 = \frac{2 \left(g \frac{\partial h}{\partial \epsilon} - h \frac{\partial g}{\partial \epsilon} \right)}{g^2 + h^2 - 2gh}$$

The tabulated data contains entries for these two quantities in logarithmic form; the logarithm of the ratio of left to right circular polarization,

$$\log_{10} \left| \frac{E_l}{E_h} \right|^2 = \log_{10} e \left\{ \log_e \left| \frac{E_l}{E_h} \right|^2 \right\}$$

and the derivative of this logarithm

$$\frac{\partial}{\partial \epsilon} \left\{ \log_{10} \left| \frac{E_l}{E_r} \right|^2 \right\} = \left\{ \frac{\partial}{\partial \epsilon} \left| \frac{E_l}{E_r} \right|^2 \right\} / \left| \frac{E_l}{E_r} \right|^2 \log_{10} e$$

Both quantities are evaluated for $\epsilon = 3.0$.

iii. Merge with data

The geometrically determined quantities are combined with the data of the corresponding time.

3. Antenna modeling

a. Stanford antenna model

A mathematical model of the spacecraft antenna was developed through a parametric study of the patterns measured by the Explorer 35 project. A complete discussion of this modeling is given in the Appendix to Tyler et al., 1969.

b. Estimation of incident polarization

The Stanford antenna model has been used to estimate the incident polarization for each data point. The gain of the antenna is included in this estimate through the magnitude of the polarization vector.

C. TOTAL POWER AND BANDWIDTH DATA

This section contains tabulated data from the Explorer 35 bistatic-radar experiment. The data presented here have been edited and represent only a fraction of the data actually reduced. This editing was carried out in two phases, one to select those spectra from which reliable estimates of signal power could be obtained, a second to select reliable estimates of bandwidth. For the most part these two sets overlap, but in some cases do not. For example, bandwidths less than 4 frequency bins in width were not used since the smearing effects of the analysis window became important in this case, however, the integrated echo power is not affected. Similarly, a measurement of echo power might be corrupted by the presence of a spurious, narrowband signal that would not affect a determination of its width. The editing was carried out prior to the consolidation of the data and the spacecraft geometry, in order to avoid a subjective bias with respect to lunar coordinates.

Table I is a synopsis of the data tapes and the experimental parameters. An index to the table entries is given below.

INDEX TO TABLE I

DAY	All days are in 1967 and are counted the first of the year with January 1 as day zero
START/STOP	Measured in hours and minutes and in fractions of a day from Greenwich midnight.
DIGITAL TAPE	XRd-nnn is the identification of the digital tape containing the weighted Fourier transforms. Several digital tapes are generated from a single analog source tape.
ANALOG TAPE	XR-nnn is the identification of the original analog data source tape.
SAMPLING	Frequency at which analog tapes were sampled (Hz).
TIMESUM	TIMESUM is the number of successive weighted Fourier transforms used in forming the spectral estimates (dimensionless).
FREQSUM	The number of frequencies summed in forming the spectral estimates (dimensionless).
INTEGRATION TIME	The amount of time represented in each TIMESUM (min.).

TABLE I

DAY	START	STOP	START	STOP	DIGITAL TAPE	ANALOG TAPE	SAMPLING	TIMESUM	FREQSUM	INTEGRATION TIME
208	749	815	0.32569430	0.34375000	XRD-184	XR- 1	525 123 4	1.999		
208	815	841	0.34375000	0.36180530	XRD-185	XR- 1	525 123 4	1.999		
208	841	907	0.36180530	0.37986090	XRD-186	XR- 1	525 123 4	1.999		
208	907	925	0.37986090	0.39236110	XRD-187	XR- 1	525 123 4	1.999		
208	930	956	0.39583330	0.41388880	XRD-181	XR- 2	525 123 4	1.999		
208	956	1022	0.41388880	0.43194430	XRD-182	XR- 2	525 123 4	1.999		
208	1022	1058	0.43194430	0.45694440	XRD-183	XR- 2	525 123 4	1.999		
208	1152	1220	0.49444430	0.51388870	XRD-178	XR- 3	525 123 4	1.999		
208	1220	1248	0.51388870	0.53333330	XRD-179	XR- 3	525 123 4	1.999		
208	1248	1326	0.53333330	0.55972210	XRD-180	XR- 3	525 123 4	1.999		
208	1335	1415	0.56597220	0.59375000	XRD-175	XR- 4	525 123 4	1.999		
208	1415	1441	0.59375000	0.61180530	XRD-176	XR- 4	525 123 4	1.999		
208	1447	1511	0.61597220	0.63263880	XRD-177	XR- 4	525 123 4	1.999		
208	1602	1630	0.66805540	0.68750000	XRD-174	XR- 5	525 123 4	1.999		
210	757	833	0.33124980	0.35624990	XRD-170	XR- 6	525 123 4	1.999		
210	833	901	0.35624990	0.37569420	XRD-171	XR- 6	525 123 4	1.999		
210	901	927	0.37569420	0.39374980	XRD-172	XR- 6	525 123 4	1.999		
210	927	933	0.39374980	0.39791660	XRD-172	XR- 6	525 123 4	1.999		
210	937	1017	0.40069430	0.42847220	XRD-166	XR- 7	525 123 4	1.999		
210	1017	1027	0.42847220	0.43541650	XRD-167	XR- 7	525 123 4	1.999		
210	1028	1102	0.43611090	0.45972220	XRD-168	XR- 7	525 123 4	1.999		
210	1102	1116	0.45972220	0.46944420	XRD-169	XR- 7	525 123 4	1.999		
210	1121	1137	0.47291660	0.48402760	XRD-118	XR- 8	300 70 4	1.991		
210	1251	1339	0.53541660	0.56874990	XRD-119	XR- 8	300 68 4	1.934		
210	1339	1410	0.56874990	0.59027760	XRD-120	XR- 8	300 70 4	1.991		
210	1417	1453	0.59513890	0.62013870	XRD-163	XR- 9	525 123 4	1.999		
210	1453	1531	0.62013880	0.64652770	XRD-164	XR- 9	525 123 4	1.999		
210	1531	1549	0.64652770	0.65902760	XRD-165	XR- 9	525 123 4	1.999		
210	1554	1634	0.66249990	0.69027760	XRD-162	XR-10	525 123 4	1.999		
210	1632	1716	0.68888870	0.71944420	XRD-121	XR-10	300 140 4	3.982		
210	1648	1708	0.69999990	0.71388880	XRD-124	XR-10	525 246 4	3.998		
210	1705	1729	0.71180550	0.72847210	XRD-125	XR-10	525 123 4	1.999		
210	1735	1811	0.73263870	0.75763880	XRD-126	XR-11	525 123 4	1.999		
210	1811	1849	0.75763880	0.78402760	XRD-127	XR-11	525 123 4	1.999		
210	1849	1901	0.78402760	0.79236100	XRD-128	XR-11	525 123 4	1.999		
211	1241	1317	0.52847210	0.55347220	XRD-129	XR-12	525 123 4	1.999		
211	1317	1353	0.55347220	0.57847200	XRD-130	XR-12	525 123 4	1.999		
211	1353	1415	0.57847200	0.59375000	XRD-131	XR-12	525 123 4	1.999		
211	1420	1458	0.59722220	0.62361090	XRD-158	XR-13	525 123 4	1.999		
211	1458	1534	0.62361090	0.64861100	XRD-159	XR-13	525 123 4	1.999		
211	1534	1554	0.64861100	0.66249990	XRD-160	XR-13	525 123 4	1.999		
211	1558	1634	0.66527770	0.69027760	XRD-161	XR-14	525 123 4	1.999		
215	1121	1159	0.47291660	0.49930540	XRD-139	XR-15	525 123 4	1.999		
215	1200	1208	0.50000000	0.50555550	XRD-140	XR-15	525 123 4	1.999		
215	1213	1251	0.50902770	0.53541660	XRD-141	XR-15	525 123 4	1.999		
215	1251	1307	0.53541660	0.54652760	XRD-143	XR-15	525 123 4	1.999		
216	12	50	0.00833333	0.03472222	XRD-132	XR-17	525 123 4	1.999		
216	49	110	0.03402778	0.04861111	XRD-133	XR-17	525 123 4	1.999		
216	203	239	0.08541662	0.11041650	XRD-134	XR-20	525 123 4	1.999		
216	1934	2012	0.81527760	0.84166650	XRD-144	XR-16	525 123 4	1.999		
216	2012	2050	0.84166650	0.86805550	XRD-145	XR-16	525 123 4	1.999		

TABLE I (continued)

DAY	START	STOP	START	STOP	DIGITAL TAPE	ANALOG TAPE	SAMPLING TIMESUM	FREQSUM	INTEGRATION TIME
216	2050	2130	0.86805550	0.89583330	XRD-146	XR-16	525 123 4	1.999	
216	2125	2203	0.89236110	0.91874990	XRD-147	XR-16	525 123 4	1.999	
216	2205	2243	0.92013870	0.94652770	XRD-148	XR-16	525 123 4	1.999	
216	2252	2332	0.95277760	0.98055540	XRD-122	XR-17	300 140 4	3.982	
216	2332	12	0.98055540	0.00833333	XRD-123	XR-17	300 140 4	3.982	
217	1347	1423	0.57430540	0.59930550	XRD-149	XR-18	525 123 4	1.999	
217	1423	1501	0.59930550	0.62569420	XRD-150	XR-18	525 123 4	1.999	
217	1501	1537	0.62569420	0.65069430	XRD-151	XR-18	525 123 4	1.999	
217	1536	1614	0.64999990	0.67638880	XRD-152	XR-18	525 123 4	1.999	
217	1614	1644	0.67638880	0.69722210	XRD-153	XR-18	525 123 4	1.999	
217	1649	1725	0.70069430	0.72569440	XRD-154	XR-19	525 123 4	1.999	
217	1725	1803	0.72569440	0.75208330	XRD-155	XR-19	525 123 4	1.999	
217	1803	1839	0.75208330	0.77708320	XRD-156	XR-19	525 123 4	1.999	
218	1838	1910	0.77638880	0.79861110	XRD-157	XR-19	525 123 4	1.999	
221	203	239	0.08541662	0.11041650	XRD-134	XR-20	525 123 4	1.999	
221	239	317	0.11041650	0.13680540	XRD-135	XR-20	525 123 4	1.999	
221	317	355	0.13680540	0.16319440	XRD-136	XR-20	525 123 4	1.999	
221	354	432	0.16249990	0.18888870	XRD-137	XR-20	525 123 4	1.999	
221	432	458	0.18888870	0.20694440	XRD-138	XR-20	525 123 4	1.999	
223	238	302	0.10972200	0.12638870	XRD-188	XR-21	512 123 4	2.050	
223	302	328	0.12638870	0.14444440	XRD-189	XR-21	512 120 4	2.000	
223	328	354	0.14444440	0.16249990	XRD-190	XR-21	512 120 4	2.000	
223	354	420	0.16249990	0.18055550	XRD-191	XR-21	512 120 4	2.000	
223	434	500	0.19027760	0.20833330	XRD-192	XR-21	512 120 4	2.000	
224	103	211	0.04375000	0.09097219	XRD-111	XR-22	256 60 4	2.000	
224	210	254	0.09027773	0.12083320	XRD-112	XR-22	256 60 4	2.000	
224	332	454	0.14722220	0.20416650	XRD- 78	XR-23	256 60 4	2.000	
225	2354	102	0.99583320	0.04305555	XRD-113	XR-24	256 60 4	2.000	
225	104	154	0.04444444	0.07916665	XRD-114	XR-24	256 60 4	2.000	
225	226	321	0.10137990	0.13956990	XRD-115	XR-24	256 60 4	2.000	
231	544	658	0.23888880	0.29027770	XRD- 79	XR-27	256 60 4	2.000	
231	748	902	0.32499990	0.37638870	XRD- 80	XR-28	256 60 4	2.000	
232	644	758	0.28055540	0.33194440	XRD- 81	XR-29	256 60 4	2.000	
232	757	900	0.33124980	0.37500000	XRD- 82	XR-29	256 60 4	2.000	
233	530	614	0.22916660	0.25972210	XRD- 83	XR-30	256 60 4	2.000	
235	1410	1515	0.59027760	0.63541660	XRD- 84	XR-31	256 60 4	2.000	
235	1515	1554	0.63541660	0.66249990	XRD- 97	XR-31	512 60 4	1.000	
235	1631	1702	0.68819420	0.70972220	XRD- 99	XR-31	512 60 4	1.000	
236	1301	1415	0.54236100	0.59375000	XRD- 93	XR-32	256 60 4	2.000	
236	1442	1603	0.61249980	0.66874990	XRD- 86	XR-32	256 60 4	2.000	
237	1159	1319	0.49930540	0.55486100	XRD- 87	XR-33	256 60 4	2.000	
237	1318	1432	0.55416660	0.60555540	XRD- 88	XR-33	256 60 4	2.000	
237	1431	1504	0.60486100	0.62777760	XRD- 89	XR-33	256 60 4	2.000	
237	1524	1630	0.64166650	0.68750000	XRD- 90	XR-34	256 60 4	2.000	
238	1135	1214	0.48263870	0.50972210	XRD- 91	XR-35	256 60 4	2.000	
238	1332	1413	0.56388870	0.59236090	XRD-102	XR-35	512 60 4	1.000	
238	1412	1442	0.59166650	0.61249980	XRD-103	XR-35	512 60 4	1.000	
239	1107	1148	0.46319430	0.49166660	XRD-105	XR-36	512 60 4	1.000	
239	1147	1226	0.49097220	0.51805530	XRD-106	XR-36	512 60 4	1.000	
239	1226	1305	0.51805530	0.54513870	XRD-107	XR-36	512 60 4	1.000	
239	1304	1337	0.54444430	0.56736090	XRD-108	XR-36	512 60 4	1.000	

TABLE I (continued)

DAY	START	STOP	START	STOP	DIGITAL TAPE	ANALOG TAPE	SAMPLING TIMES	SUM	FREQSUM	INTEGRATION TIME
239	1339	1408	0.56874990	0.58888880	XRD-109	XR-37	512	120	4	2.000
239	1408	1436	0.58888880	0.60833310	XRD-110	XR-37	512	120	4	2.000
240	1017	1120	0.42847220	0.47222220	XRD- 35	XR-38	512	120	4	2.000
240	1017	1043	0.42847220	0.44652770	XRD-193	XR-38	512	120	4	2.000
240	1043	1111	0.44652770	0.46597210	XRD-194	XR-38	512	120	4	2.000
240	1111	1139	0.46597210	0.48541650	XRD-195	XR-38	512	120	4	2.000
240	1139	1207	0.48541650	0.50486090	XRD-196	XR-38	512	120	4	2.000
240	1207	1245	0.50486090	0.53125000	XRD-197	XR-38	512	120	4	2.000
240	1245	1315	0.53125000	0.55208330	XRD-198	XR-38	512	120	4	2.000
262	1200	1315	0.50000000	0.55208330	XRD- 56	XR-38	256	60	4	2.000
262	1314	1424	0.55138880	0.59999990	XRD- 57	XR-38	256	60	4	2.000
262	1314	1326	0.55138880	0.55972210	XRD- 57	XR-38	256	60	4	2.000
263	1137	1253	0.48402760	0.53680550	XRD- 58	XR-39	256	60	4	2.000
263	1252	1331	0.53611090	0.56319420	XRD- 59	XR-39	256	60	4	2.000
264	859	937	0.37430540	0.40069430	XRD- 60	XR-40	512	60	4	1.000
264	936	1015	0.39999990	0.42708330	XRD- 61	XR-40	512	60	4	1.000
264	1014	1053	0.42638880	0.45347200	XRD- 62	XR-40	512	60	4	1.000
264	1052	1131	0.45277760	0.47986100	XRD- 63	XR-40	512	60	4	1.000
264	1131	1210	0.47986100	0.50694440	XRD- 64	XR-40	512	60	4	1.000
264	1213	1252	0.50902770	0.53611090	XRD- 65	XR-41	512	60	4	1.000
264	1251	1330	0.53541660	0.56250000	XRD- 66	XR-41	512	60	4	1.000
264	1329	1356	0.56180540	0.58055530	XRD- 67	XR-41	512	60	4	1.000
265	751	830	0.32708310	0.35416660	XRD- 69	XR-42	512	60	4	1.000
265	829	857	0.35347210	0.37291650	XRD- 70	XR-42	512	60	4	1.000
265	856	937	0.37222210	0.40069430	XRD- 71	XR-42	512	60	4	1.000
265	937	1017	0.40069430	0.42847220	XRD- 72	XR-42	512	60	4	1.000
265	1016	1040	0.42777770	0.44444440	XRD- 73	XR-42	512	60	4	1.000
265	1040	1100	0.44444440	0.45833330	XRD- 74	XR-42	512	60	4	1.000
265	1105	1133	0.46180550	0.48124990	XRD- 75	XR-43	512	60	4	1.000
265	1132	1208	0.48055540	0.50555550	XRD- 76	XR-43	512	60	4	1.000
265	1207	1240	0.50486090	0.52777760	XRD- 77	XR-43	512	60	4	1.000
312	2209	2236	0.92291650	0.94166660	XRD- 48	XR-44	512	120	4	2.000
312	2235	2313	0.94097220	0.96736090	XRD- 49	XR-44	512	120	4	2.000
312	2312	2323	0.96666650	0.97430550	XRD- 50	XR-44	512	120	4	2.000
313	16	43	0.01111111	0.02986111	XRD- 50	XR-45	512	120	4	2.000
313	42	120	0.02916666	0.05555555	XRD- 51	XR-45	512	120	4	2.000
313	155	231	0.07986110	0.10486100	XRD- 53	XR-45	512	120	4	2.000
313	230	300	0.10416660	0.12500000	XRD- 54	XR-45	512	120	4	2.000
313	2300	2338	0.95833330	0.98472200	XRD- 38	XR-47	512	120	4	2.000
313	2337	5	0.98402760	0.00347222	XRD- 39	XR-47	512	120	4	2.000
314	5	45	0.00347222	0.03125000	XRD- 40	XR-47	512	120	4	2.000
314	44	120	0.03055555	0.05555555	XRD- 41	XR-47	512	120	4	2.000
314	119	159	0.05486111	0.08263886	XRD- 42	XR-47	512	120	4	2.000
314	158	202	0.08194441	0.08472222	XRD- 43	XR-47	512	120	4	2.000

Table II is a listing of the edited Explorer 35 data set. An index to the table entries is given below. All references refer to subsections of section B of this volume.

INDEX TO TABLE II

DAY	All days are in 1967, and are counted from the first of the year with January 1 as day zero (days).
FDAY	Time of day measured in fractions from Greenwich midnight (G.M.T.). DAY and FDAY are given together as DAY.FDAY.
XSAT YSAT ZSAT	Selenographic coordinates of point at which the spacecraft position vector pierces the mean lunar surface, normalized to unit length: X denotes mean earth direction, Y denotes astronautic lunar east as viewed from mean earth position, Z denotes lunar pole (lunar radius).
XSPEC YSPEC ZSPEC	Selenographic coordinates of the center of the first Fresnel zone on mean lunar surface. Conventions as given above (lunar radius).
ALT	Altitude of the spacecraft above the mean lunar surface. The lunar radius is assumed to be 1738 km.
VEL	Velocity of the spacecraft in selenographic coordinates (m/sec).
D	Distance from the center of the first Fresnel zone on the mean lunar surface to the spacecraft (km).
PHI	Angle of incidence at the center of the first Fresnel zone on the mean lunar surface (deg).
DOFF	Predicted differential Doppler shift between the mean frequency of the echo spectrum and the directly propagating waves (Hz) (2.b.ii.).
PSI	Apparent tilt of spacecraft spin vector with respect to the lunar horizon viewed from the center of the first Fresnel zone on the mean lunar surface (deg).

THETA Angle formed between a line connecting the center of the first Fresnel zone on the mean lunar surface and the spacecraft spin vector (deg).

BW Predicted one-half power bandwidth of the echo spectrum (Hz)(i.b.v.).

SIGPRE Ratio of bistatic-radar cross-section of conducting sphere to monostatic radar cross-section equal to projected area of same sphere at infinite range (dimensionless)(2.b.ii.).

SIGFAC Multiplicative constant for obtaining surface reflectivity watts⁻¹ where

$$R_2 = 4 \times 10^8$$

$$A = 0.5 (22.5)^2 \pi$$

$$G_T = 1$$

$$P_T = 2.5$$

$$\left. \begin{array}{l} R_1 \\ \sigma_B \end{array} \right\} \text{dependent on geometry}$$

(i.b.iv.)

S Coordinates of incident polarization on
G polarization coordinates on the Poincare sphere:
X S = relative magnitude of incident wave with respect to an isotropic (S = 10) antenna (dimensionless)
G = angle included between major axis of polarization ellipse and horizon at center of first Fresnel zone on the mean lunar surface (deg.)
 $\chi = \arctan \left(\frac{M}{N} \right)$, where $\frac{M}{N}$ is the axial ratio of the incident wave (deg). $\chi > 0$ implies left elliptical polarization, $\chi < 0$ implies right elliptical polarization (3.a., 3.b.).

ALGGH Logarithmic ratio of reflected left circularly polarized power to right circularly polarized power, assuming an incident signal with Poincare parameters S, G, X given above, and reflection from a plane semi-infinite dielectric interface with a discontinuity ratio of 3 (dimensionless)(2.b.ii.).

DLGGH Partial derivative of ALGGH with respect to dielectric constant, evaluated for conditions given above (2.b.ii.).

REFA
REFB

Total echo power in receivers A and B, respectively. The designation "A" implies left circular polarization; that of "B" right circular polarization (Hz, see text)(1.b.ii.).

RNA
RNB

Normalized echo power is echo power corrected for variations in antenna pattern and geometrical factors. Specifically

$$RN() = \left[\left(1. + \frac{ALT}{1736} \right)^2 / (\pi \cdot SIGPRE \cdot S) \right] REF() \text{ (Hz)}$$

(1.b.iv., 2.b.ii., 3.a., 3.b.)

IBWA
IBWB

One-half power bandwidth of echo spectrum in receivers A and B, respectively. The conventions regarding designations are given immediately above (Hz).

BWNA
BWNB

Normalized echo bandwidth is the measured one-half power bandwidth divided by the bandwidth predicted by Fjeldbo's theory (IBW()/BW) (i.b.v.).

D. SPECTRAPOLARIMETRY

1. Tabulated data

This section presents reduced data on the polarization of the Explorer 35 echoes. Both the tabulated quantities and the polarization spectra themselves are given. All the data which has been processed for polarization is shown. Numerical data is given first in Table III. In this table the first set of entries is identical to those in Table II, but are repeated for convenience. The second set of entries, under Polarimetry data, are peculiar to this data. An index to the quantities listed is given below. All units are given with respect to an arbitrary scale, chosen for convenience. The reduction of this data is discussed in section B.1.c. of this volume.

INDEX TO POLARIMETRY DATA IN TABLE III

TOTAMP	Maximum amplitude of total echo power spectrum, i.e., sum of polarized and unpolarized parts.
PLAMP	Maximum amplitude of the polarized portion of the echo spectrum.
UPLAMP	Maximum amplitude of the unpolarized portion of the echo spectrum.
PLWID	One-half power bandwidth of the polarized portion of the echo spectrum.
UPLWID	One-half power bandwidth of the unpolarized portion of the echo spectrum.
TOTPWR	Estimate of total echo power, $PLAMP \cdot PLWID + UPLAMP \cdot UPLWID$.
PLPWR	Estimate of polarized echo power, $PLAMP \cdot PLWID$.
UPLPWR	Estimate of unpolarized echo power, $UPLAMP \cdot UPLWID$.
PP/UPP	Estimate of ratio of polarized to unpolarized echo power, $PLPWR/UPPWR$.
PA/UPA	Ratio of maximum amplitudes of polarized and unpolarized portions of the echo spectrum, $PLAMP/UPLAMP$.
PW/UPW	Ratio of one-half power bandwidths of the polarized and unpolarized portions of the echo spectrum, $PLWID/UPLWID$.
PLSYM	Indicator of spectral symmetry of polarized portion of echo (subjective). 0 implies apparently symmetric spectra. 1 implies obvious asymmetric spectra.
UPLSYM	Indicator of spectral symmetry of unpolarized portion of echo (subjective). 0 implies apparently symmetric spectra. 1 implies obviously asymmetric spectra.

2. Spectra

The following figures show the behavior of the polarized and unpolarized parts of the echo spectra for a large portion of the Explorer 35 data. Each figure is identified by a digital tape and frame number. The frame number represents the order in which the spectra were generated. Successive frames follow each other in time. Geometrical parameters corresponding to a particular tape and frame may be determined from Table III.

Four plots are given for each frame. In each case the abscissa is frequency. The plots give

1. Fractional polarization
2. Total power
3. Unpolarized power
4. Polarized power

with ordinates linear in the above quantities. Fractional polarization is determined from the coherency matrix of the received signals in the manner described earlier (B.l.c.i.). A correction procedure prior to computation of the coherency matrix, is used to minimize system errors by minimizing the apparent polarization of the background noise level. In most cases system noise has been essentially eliminated from the spectra. This optimization process has been described elsewhere (Tyler, 1970). Total received power is the trace of the coherency matrix (vs. frequency) and is the power spectral density of the received signal. Polarized power (vs. frequency) is the product of the fractional polarization and total power. Unpolarized power is the total power minus the polarized power. Total power is the sum of the polarized and unpolarized parts.

These plots are reproduced here to display the nuances of the spectra and to permit the reader to obtain a better feel for the nature of the data. The interpretation of these spectra will be given in the scientific literature. However, there are several features which should be pointed out. The spacecraft downlink carrier signal, when it is present in the spectrum, does not appear completely polarized, even though it is a coherent signal. This effect arises from combination of the spacecraft rotation and antenna pattern. Since the transmitted polarization is not uniform with spacecraft rotation angle, the polarization transmitted in any given direction varies with time (see Appendix in Tyler et al., 1969). Typically the coherency matrix is generated by a coherent integration (the reciprocal of the basic analysis bandwidth) over approximately one-half a revolution of the spacecraft. This initial filtering is followed by the summation process. The variation of the transmitted polarization over the period of coherent integration time is responsible for the partially polarized appearance of the transmitted signal. In general the percentage polarization of the direct wave is between 85 and 90 percent. This effect also accounts for some of the apparently unpolarized power in the echo, by about the fractional polarization of the direct wave. A more precise statement is difficult because the directions to the reflecting region on the moon and the observer will usually not make the same angle with the spacecraft spin vector. Hence the reflection region is not illuminated by a signal precisely the same as that observed over the direct path. There are other errors, primarily associated with the construction of the receiving antenna and receiving system and which are not well known but

are believed to be small. However, most such errors operate to make unpolarized signals appear polarized and would not contribute to the unpolarized part, in fact they remove power from the unpolarized part. Also, any systematic error will transfer power between the polarized and unpolarized parts in proportion to the power present. For the most part the unpolarized echo is relatively small compared with the polarized and is of approximately the same shape. For those instances the unpolarized echo probably results from the modulating effects of the spacecraft rotation. However, in many cases the unpolarized echo power is equal to the polarized; in a few cases the unpolarized power exceeds the polarized. There are also a few cases where the unpolarized and polarized echoes have markedly different shapes. In these latter instances the unpolarized part can only represent a real experimental phenomena associated with the lunar surface.

Acknowledgements

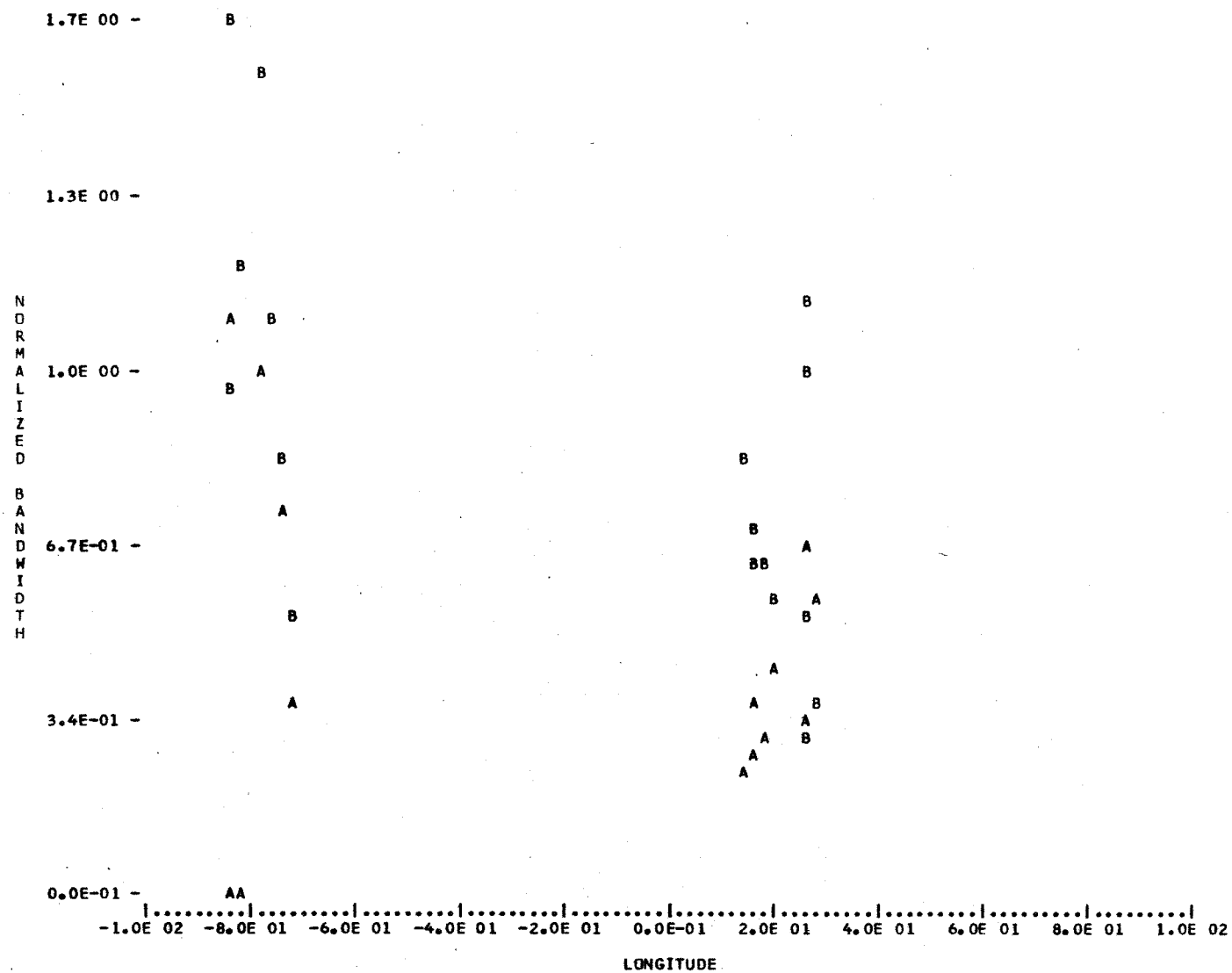
The authors gratefully acknowledge efforts, advice and encouragement of the many persons who have been associated with this project. Special mention must be made of Von R. Eshleman, H. Taylor Howard and Allen M. Peterson for sharing their wisdom and experience, to Miss Barbara Warsavage for much of the computer programming, and to G. Robert Dow for his careful and conscientious labors in preparing this report.

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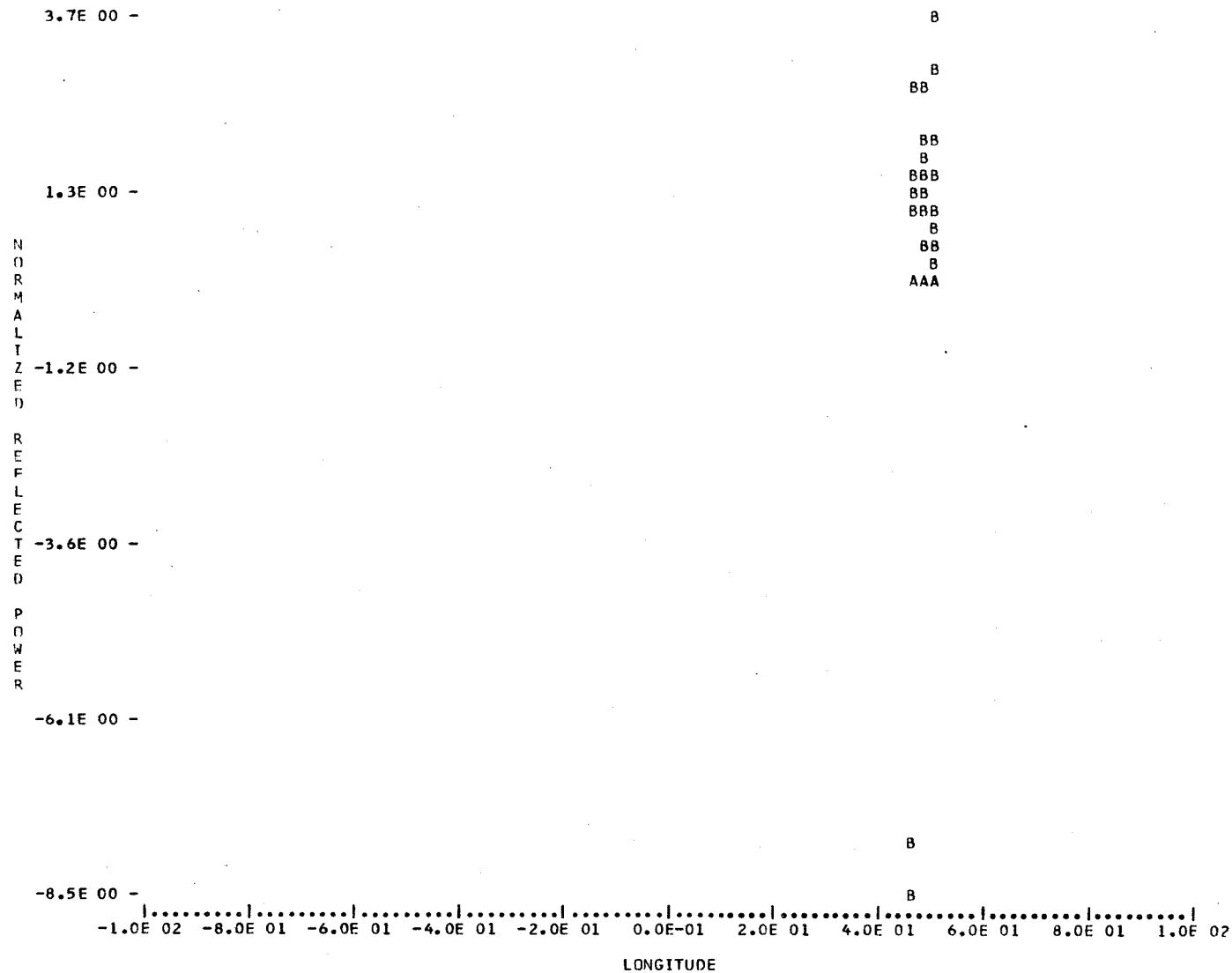
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	1
216.85613	0.623 0.771 0.133	0.884 0.466 0.033	3969 948 4178	33.55	141 -79.03 77.08	21.3 1.27 0.38E 30	10.6 129.2 11.0	-3.356 -0.00837	*****	*****	*****	*****	12	8	0.565	0.376		
216.85751	0.636 0.761 0.131	0.888 0.460 0.032	3904 958 4106	33.07	149 -78.77 77.16	21.9 1.28 0.37E 30	10.6 129.4 11.0	-3.360 -0.00782	*****	*****	*****	*****	8	8	0.365	0.365		
216.85888	0.649 0.750 0.129	0.892 0.452 0.031	3838 969 4032	32.57	157 -78.49 77.25	22.7 1.29 0.36E 30	10.6 129.6 10.9	-3.332 -0.00719	*****	*****	*****	*****	8	12	0.353	0.530		
216.86026	0.661 0.739 0.126	0.896 0.445 0.030	3771 980 3954	32.07	165 -78.21 77.35	23.4 1.30 0.35E 30	10.5 129.8 10.8	-3.303 -0.00661	*****	*****	*****	*****	8	24	0.341	1.025		
216.86164	0.675 0.727 0.124	0.900 0.436 0.029	3704 991 3882	31.55	174 -77.93 77.45	24.2 1.30 0.35E 30	10.5 130.1 10.7	-3.270 -0.00613	*****	*****	*****	*****	16	28	0.661	1.157		
216.86302	0.689 0.714 0.122	0.904 0.426 0.027	3636 1003 3808	31.01	183 -77.62 77.56	25.1 1.32 0.34E 30	10.5 130.3 10.6	-3.241 -0.00559	*****	*****	*****	*****	8	8	0.319	0.319		
216.87563	0.814 0.573 0.094	0.942 0.335 0.013	2987 1121 3094	25.24	273 -74.26 78.96	27.3 1.42 0.26E 30	10.1 132.7 9.3	-2.838 -0.00214	*****	*****	*****	*****	16	20	0.446	0.557		
216.87701	0.828 0.553 0.090	0.946 0.323 0.011	2913 1135 3012	24.49	284 -73.79 79.18	28.4 1.43 0.25E 30	10.1 133.1 9.1	-2.773 -0.00192	*****	*****	*****	*****	12	24	0.319	0.639		
216.88114	0.870 0.487 0.078	0.959 0.281 0.004	2689 1181 2769	22.08	320 -72.23 79.90	43.2 1.48 0.23E 30	9.9 134.1 8.4	-2.555 -0.00129	*****	*****	*****	*****	16	28	0.371	0.649		
216.88252	0.883 0.462 0.073	0.964 0.265 0.002	2614 1197 2683	21.21	333 -71.63 80.18	45.3 1.50 0.23E 30	9.9 134.6 8.1	-2.459 -0.00114	*****	*****	*****	*****	12	32	0.264	0.706		
216.88390	0.896 0.438 0.068	0.968 0.250 0.000	2538 1214 2602	20.29	346 -70.96 80.49	47.7 1.52 0.22E 30	9.8 135.0 7.9	-2.397 -0.00100	*****	*****	*****	*****	12	40	0.251	0.838		
216.93598	-0.232 -0.952 -0.174	0.290 -0.930 -0.221	944 1678 1467	67.15	186 76.86 96.48	45.1 1.07 0.84E 29	7.8 91.4 -3.2	-4.981 -0.28740	*****	*****	*****	*****	16	24	0.354	0.532		
216.93736	-0.304 -0.937 -0.170	0.255 -0.940 -0.226	984 1663 1568	69.28	174 76.13 95.77	37.9 0.98 0.87E 29	7.8 91.3 -3.0	-3.548 -0.15254	*****	*****	*****	*****	28	32	0.739	0.844		
216.93873	-0.367 -0.912 -0.165	0.224 -0.946 -0.230	1034 1644 1662	71.08	163 75.52 95.08	32.7 0.91 0.90E 29	7.9 91.4 -2.8	-2.740 -0.09491	*****	*****	*****	*****	36	36	1.101	1.101		
216.94011	-0.429 -0.886 -0.159	0.193 -0.952 -0.234	1084 1625 1763	72.86	151 74.94 94.39	27.7 0.83 0.93E 29	8.0 91.4 -2.5	-2.085 -0.05954	*****	*****	*****	*****	28	44	1.011	1.589		
216.94287	-0.540 -0.826 -0.147	0.138 -0.959 -0.244	1198 1584 1977	76.00	130 73.90 93.07	20.0 0.71 0.10E 30	8.1 91.5 -1.7	-1.116 -0.02305	*****	*****	*****	*****	4	24	0.000	1.201		
216.94424	-0.592 -0.794 -0.140	0.113 -0.962 -0.248	1257 1563 2092	77.48	119 73.41 92.42	16.7 0.65 0.11E 30	8.2 91.6 -1.4	-0.833 -0.01475	*****	*****	*****	*****	4	16	0.000	0.961		
216.94562	-0.636 -0.758 -0.133	0.089 -0.963 -0.253	1322 1542 2198	78.77	109 72.96 91.81	14.3 0.60 0.11E 30	8.2 91.7 -1.0	-0.549 -0.00845	*****	*****	*****	*****	16	24	1.122	1.683		

NORMALIZED BANDWIDTH VS LONGITUDE



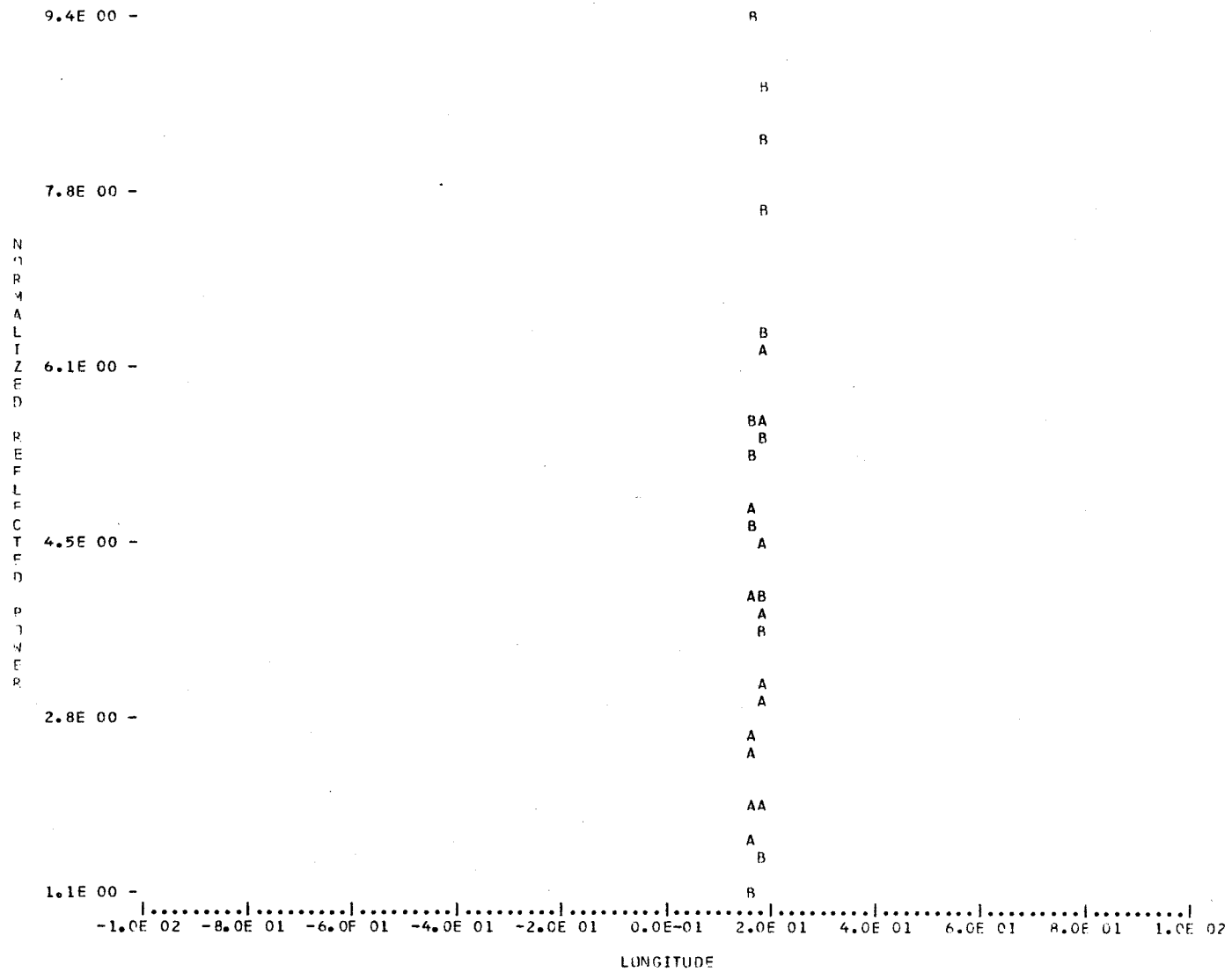
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	PNB	IBWA	IBWB	BWNA	BWNB	PAGE	3
217.65620	-0.131 0.975 0.179	0.630 0.773 0.071	7707 467 8352	55.58	-163 -90.45 77.71	5.5 1.02 0.10E 31	10.5 117.4 10.5	-1.524 -0.12897	*****	1.71	*****	1.50	***	***	*****	*****		
217.65758	-0.125 0.976 0.179	0.632 0.771 0.071	7703 467 8346	55.39	-161 -90.39 77.67	5.5 1.02 0.10E 31	10.5 117.5 10.5	-1.575 -0.12683	*****	0.30	*****	0.27	***	***	*****	*****		
217.65895	-0.119 0.977 0.180	0.635 0.769 0.071	7699 468 8342	55.21	-160 -90.32 77.63	5.5 1.02 0.10E 31	10.5 117.5 10.5	-1.631 -0.12538	*****	0.60	*****	0.53	***	***	*****	*****		
217.66033	-0.113 0.977 0.180	0.638 0.767 0.071	7695 468 8328	55.03	-159 -90.26 77.59	5.5 1.02 0.10E 31	10.5 117.6 10.6	-1.690 -0.12434	*****	0.84	*****	0.74	***	***	*****	*****		
217.66171	-0.105 0.978 0.180	0.641 0.764 0.071	7690 469 8319	54.84	-158 -90.19 77.55	5.6 1.03 0.10E 31	10.5 117.7 10.6	-1.739 -0.12216	*****	1.25	*****	1.09	***	***	*****	*****		
217.66309	-0.098 0.979 0.180	0.645 0.761 0.071	7685 469 8313	54.65	-158 -90.12 77.51	5.6 1.03 0.10E 31	10.5 117.8 10.6	-1.786 -0.11999	*****	1.80	*****	1.55	***	***	*****	*****		
217.66446	-0.092 0.979 0.180	0.647 0.759 0.071	7679 470 8297	54.47	-156 -90.05 77.48	5.6 1.03 0.10E 31	10.5 117.9 10.7	-1.844 -0.11892	*****	1.79	*****	1.55	***	***	*****	*****		
217.66584	-0.086 0.980 0.181	0.649 0.757 0.071	7673 471 8293	54.28	-155 -89.99 77.44	5.7 1.03 0.10E 31	10.5 118.0 10.7	-1.889 -0.11675	*****	3.41	*****	2.95	***	***	*****	*****		
217.66722	-0.081 0.980 0.181	0.651 0.755 0.071	7666 471 8279	54.10	-154 -89.92 77.40	5.7 1.03 0.10E 31	10.5 118.1 10.7	-1.931 -0.11468	*****	2.25	*****	1.94	***	***	*****	*****		
217.66859	-0.075 0.981 0.181	0.653 0.753 0.070	7659 472 8273	53.91	-153 -89.85 77.36	5.7 1.03 0.10E 31	10.5 118.2 10.8	-1.989 -0.11351	*****	4.29	*****	3.69	***	***	*****	*****		
217.66997	-0.069 0.981 0.181	0.656 0.751 0.070	7652 473 8258	53.73	-152 -89.78 77.33	5.7 1.03 0.10E 31	10.5 118.3 10.8	-2.029 -0.11146	*****	1.93	*****	1.66	***	***	*****	*****		
217.67135	-0.063 0.981 0.181	0.658 0.750 0.070	7644 474 8241	53.55	-150 -89.71 77.29	5.8 1.03 0.10E 31	10.6 118.4 10.8	-2.068 -0.10941	*****	1.74	*****	1.48	***	***	*****	*****		
217.67273	-0.057 0.982 0.182	0.660 0.748 0.070	7635 475 8235	53.36	-149 -89.64 77.26	5.8 1.04 0.10E 31	10.6 118.5 10.9	-2.126 -0.10824	*****	1.13	*****	0.95	***	***	*****	*****		
217.67410	-0.051 0.982 0.182	0.663 0.746 0.070	7627 476 8220	53.17	-147 -89.57 77.22	5.8 1.04 0.10E 31	10.6 118.6 10.9	-2.166 -0.10613	*****	0.54	*****	0.45	***	***	*****	*****		
217.67548	-0.045 0.983 0.182	0.665 0.744 0.070	7617 477 8212	52.99	-146 -89.50 77.18	5.9 1.04 0.10E 31	10.6 118.7 10.9	-2.202 -0.10412	*****	1.25	*****	1.04	***	***	*****	*****		
217.67708	-0.038 0.983 0.182	0.667 0.742 0.070	7606 478 8193	52.77	-144 -89.41 77.14	5.9 1.04 0.10E 31	10.6 118.8 11.0	-2.265 -0.10269	*****	1.95	*****	1.63	***	***	*****	*****		
217.67846	-0.030 0.983 0.182	0.671 0.739 0.070	7595 480 8175	52.58	-143 -89.34 77.11	5.9 1.04 0.10E 31	10.6 118.9 11.0	-2.303 -0.10062	*****	3.14	*****	2.61	***	***	*****	*****		
217.67983	-0.023 0.983 0.182	0.674 0.736 0.070	7584 481 8159	52.40	-142 -89.26 77.08	6.0 1.04 0.10E 31	10.6 119.0 11.0	-2.336 -0.09866	*****	1.48	*****	1.23	***	***	*****	*****		
217.68121	-0.016 0.983 0.182	0.677 0.733 0.070	7572 483 8142	52.21	-141 -89.19 77.04	6.0 1.04 0.10E 31	10.6 119.1 11.1	-2.390 -0.09751	*****	2.37	*****	1.97	***	***	*****	*****		

NORMALIZED REFLECTED POWER VS LONGITUDE

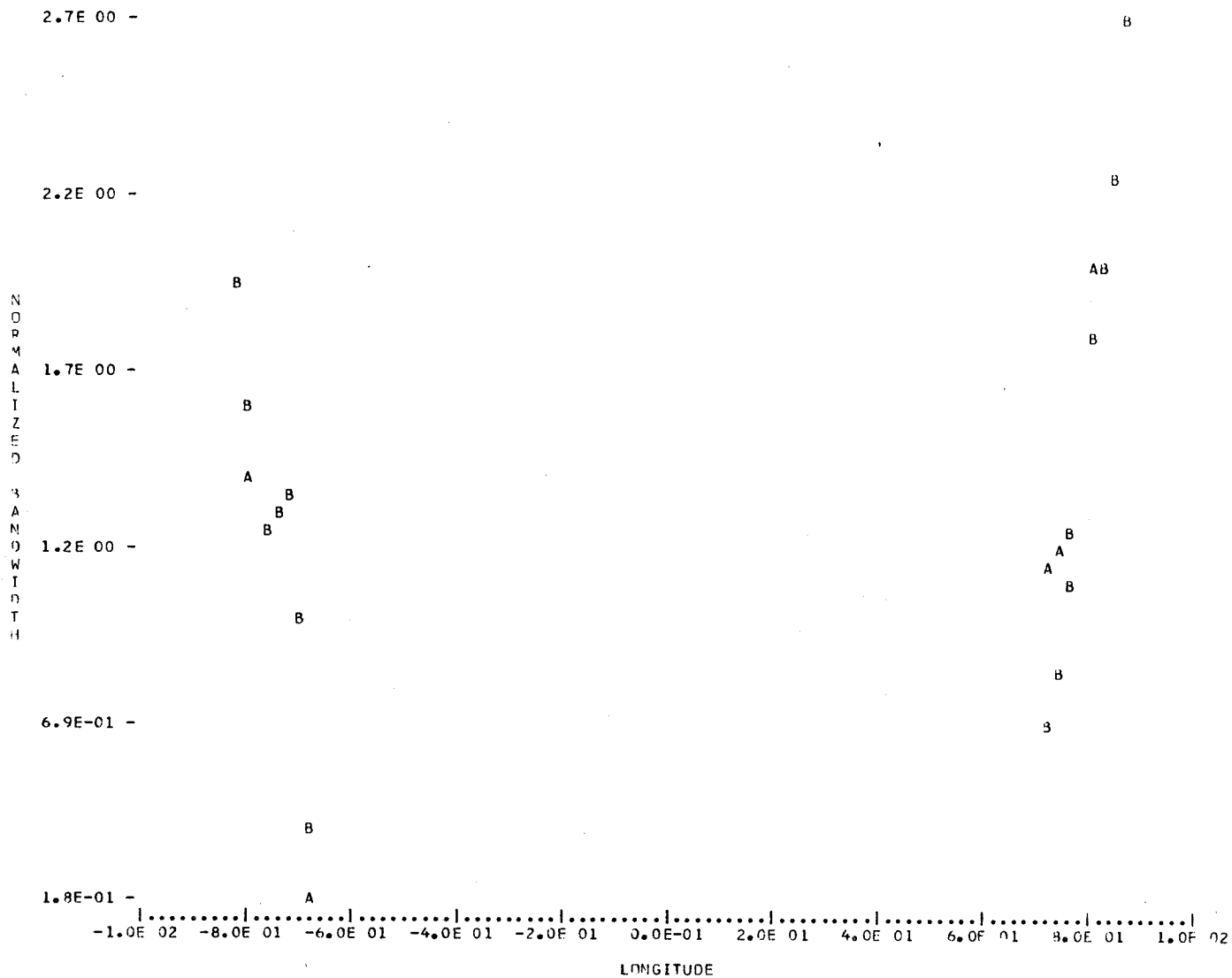


DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	PNA	PNB	IBWA	IBWB	BWNA	BWNB	PAGE	6
221. 8886	0.813 0.552 0.185	0.943 0.323 0.088	6833 570 6917	20.11	79 -73.73 75.55	11.3 1.21 0.86E 30	11.0 135.5 12.5	-3.857 -0.00185	5.39	14.96	3.13	8.70	***	***	*****	*****		
221. 9024	0.817 0.546 0.185	0.944 0.319 0.088	6805 573 6887	19.89	83 -73.44 75.54	11.4 1.21 0.85E 30	11.0 135.8 12.5	-3.854 -0.00187	3.46	9.38	2.00	5.42	***	***	*****	*****		
221. 9162	0.822 0.539 0.185	0.946 0.314 0.088	6775 576 6858	19.66	88 -73.14 75.52	11.5 1.21 0.85E 30	11.0 136.1 12.5	-3.850 -0.00188	5.26	13.32	3.02	7.65	***	***	*****	*****		
221. 9299	0.826 0.531 0.184	0.947 0.310 0.088	6746 580 6816	19.44	93 -72.83 75.51	11.6 1.22 0.84E 30	11.0 136.4 12.5	-3.847 -0.00190	6.69	2.52	3.78	1.42	***	***	*****	*****		
221. 9437	0.831 0.524 0.184	0.949 0.305 0.088	6716 584 6788	19.22	98 -72.52 75.49	11.7 1.22 0.84E 30	11.0 136.8 12.5	-3.842 -0.00194	5.40	7.18	3.03	4.03	***	***	*****	*****		
221. 9575	0.835 0.518 0.184	0.950 0.301 0.088	6685 587 6757	19.00	103 -72.20 75.48	11.8 1.22 0.83E 30	11.0 137.1 12.6	-3.872 -0.00197	11.13	14.72	6.20	8.20	***	***	*****	*****		
221. 9712	0.839 0.511 0.184	0.951 0.297 0.088	6654 591 6723	18.77	108 -71.88 75.46	12.0 1.22 0.82E 30	11.0 137.4 12.6	-3.870 -0.00198	10.25	11.79	5.67	6.52	***	***	*****	*****		
221. 9850	0.843 0.505 0.184	0.952 0.294 0.088	6622 595 6691	18.55	113 -71.53 75.45	12.1 1.22 0.82E 30	11.0 137.8 12.6	-3.866 -0.00201	8.13	6.72	4.46	3.69	***	***	*****	*****		
221. 9988	0.847 0.499 0.183	0.953 0.290 0.087	6590 599 6660	18.32	118 -71.19 75.44	12.2 1.22 0.81E 30	11.0 138.1 12.6	-3.864 -0.00201	2.88	17.32	1.57	9.43	***	***	*****	*****		
221.10126	0.851 0.492 0.183	0.954 0.286 0.087	6557 603 6625	18.08	124 -70.83 75.43	12.3 1.22 0.81E 30	11.0 138.5 12.6	-3.860 -0.00204	3.77	10.50	2.04	5.67	***	***	*****	*****		
221.10263	0.855 0.485 0.183	0.956 0.282 0.087	6523 607 6587	17.85	129 -70.46 75.41	12.4 1.23 0.80E 30	11.0 138.9 12.6	-3.857 -0.00206	7.46	8.79	3.97	4.67	***	***	*****	*****		
221.10401	0.859 0.479 0.183	0.957 0.278 0.087	6490 611 6558	17.62	134 -70.09 75.40	12.5 1.23 0.79E 30	11.0 139.2 12.6	-3.856 -0.00205	9.00	10.10	4.75	5.32	***	***	*****	*****		
221.10539	0.863 0.472 0.183	0.958 0.274 0.087	6455 615 6522	17.38	139 -69.70 75.40	12.7 1.23 0.79E 30	11.0 139.6 12.6	-3.853 -0.00207	9.03	8.75	4.72	4.58	***	***	*****	*****		
221.10677	0.867 0.465 0.182	0.958 0.270 0.086	6421 619 6488	17.14	145 -69.30 75.39	12.8 1.23 0.78E 30	11.0 140.0 12.6	-3.851 -0.00208	4.96	2.20	2.57	1.14	***	***	*****	*****		
221.10814	0.871 0.458 0.182	0.960 0.266 0.086	6386 623 6452	16.90	151 -68.89 75.38	12.9 1.23 0.78E 30	11.0 140.5 12.6	-3.848 -0.00211	4.79	9.05	2.46	4.65	***	***	*****	*****		

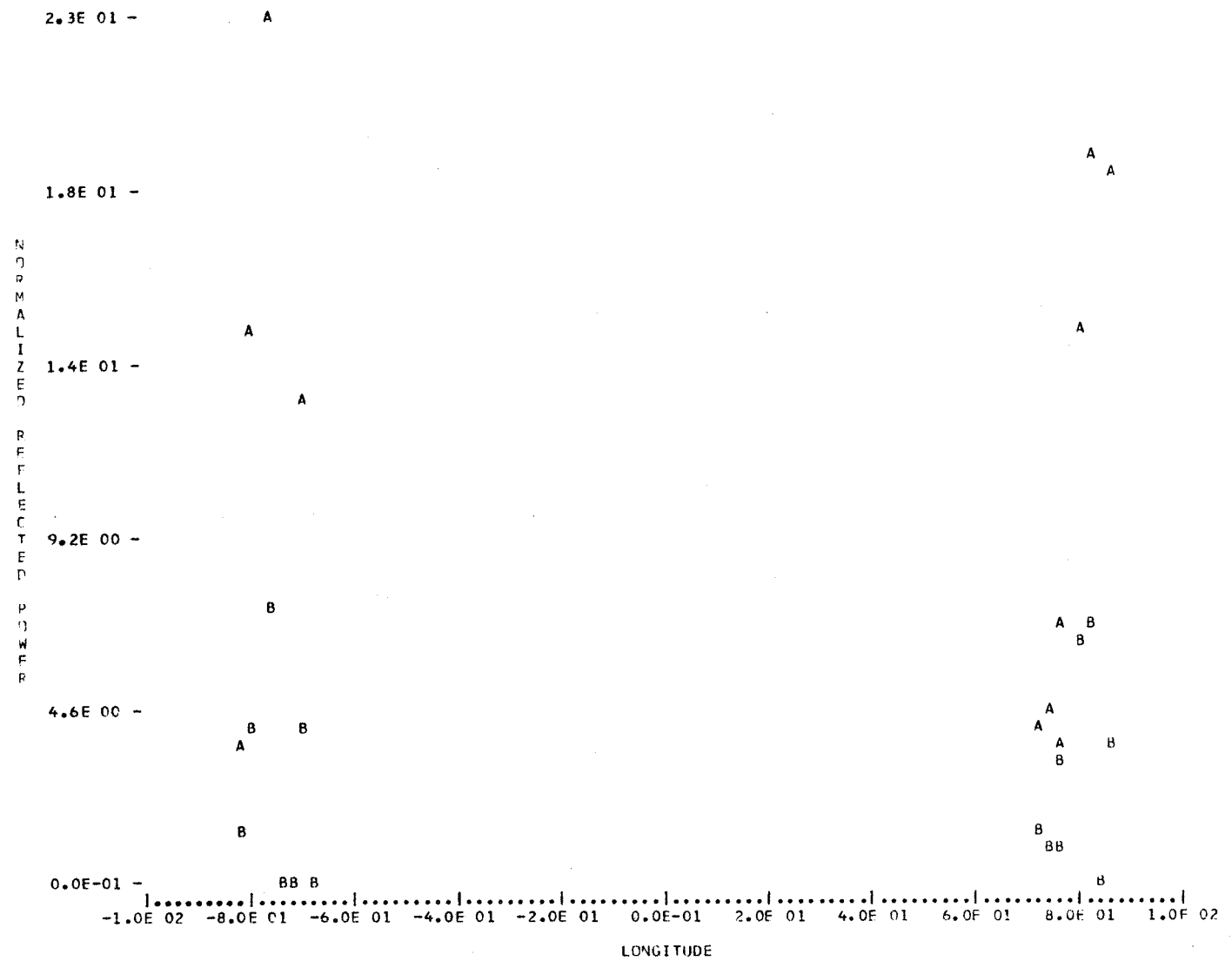
NORMALIZED REFLECTED POWER VS LONGITUDE



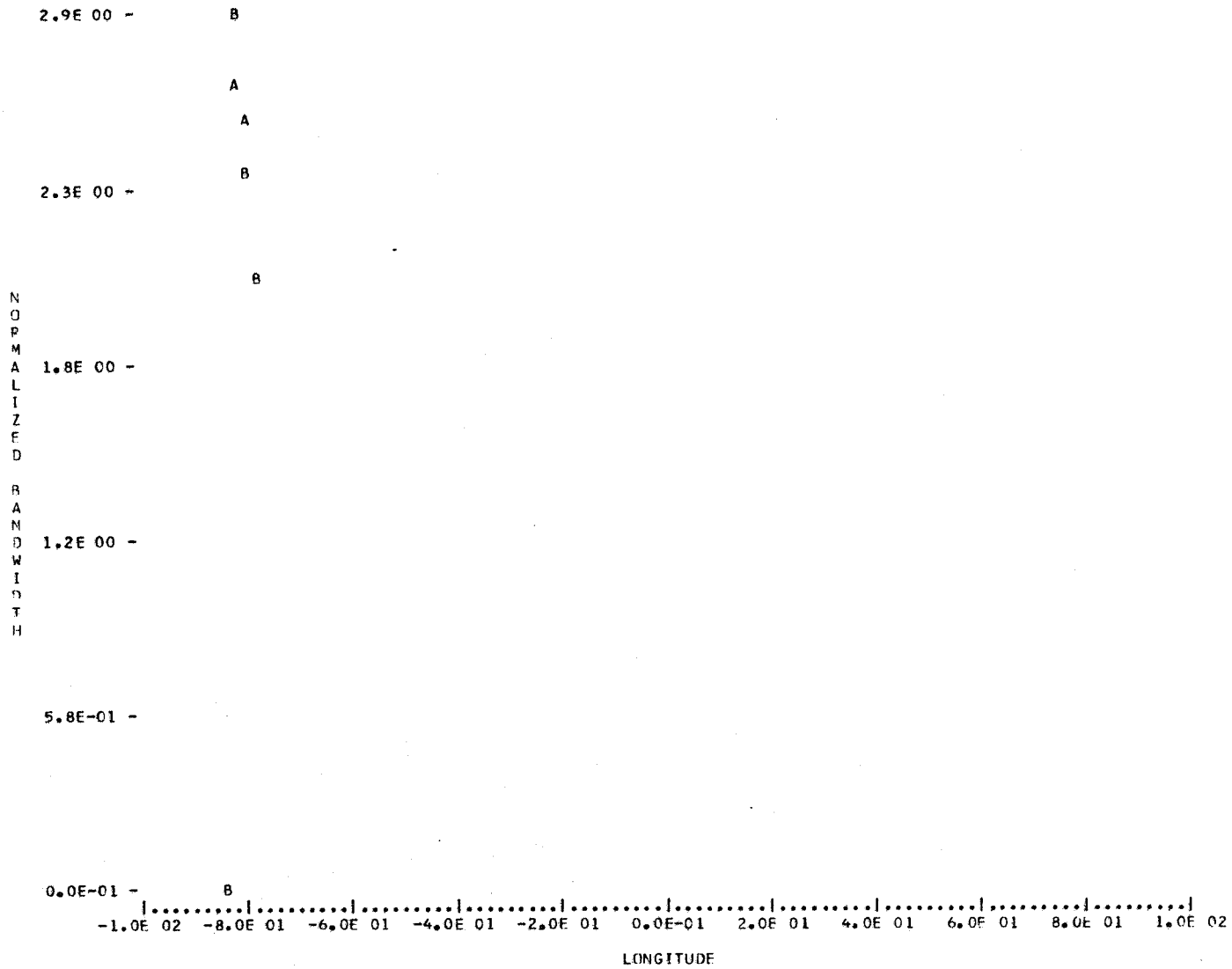
NORMALIZED BANDWIDTH VS LONGITUDE



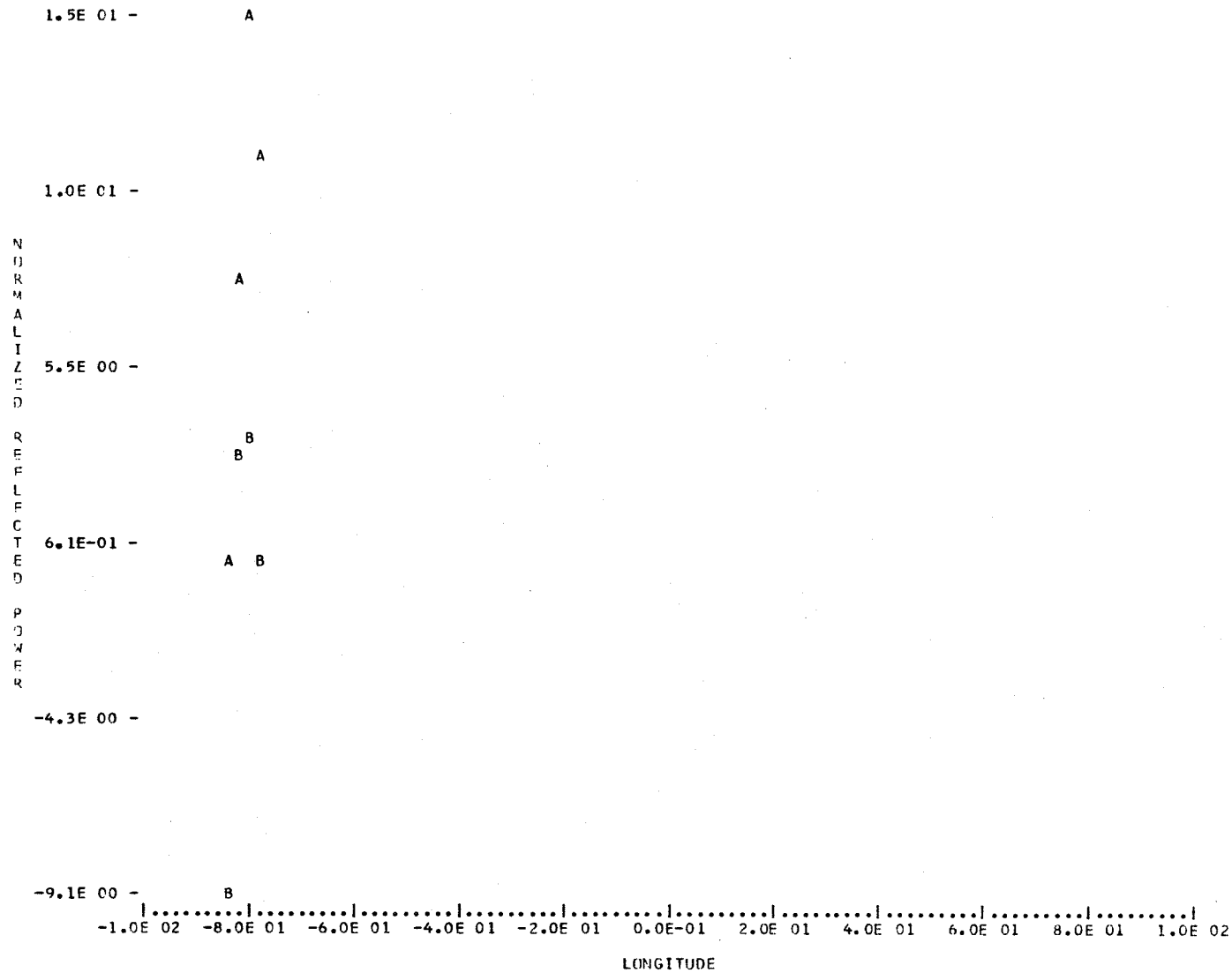
NORMALIZED REFLECTED POWER VS LONGITUDE



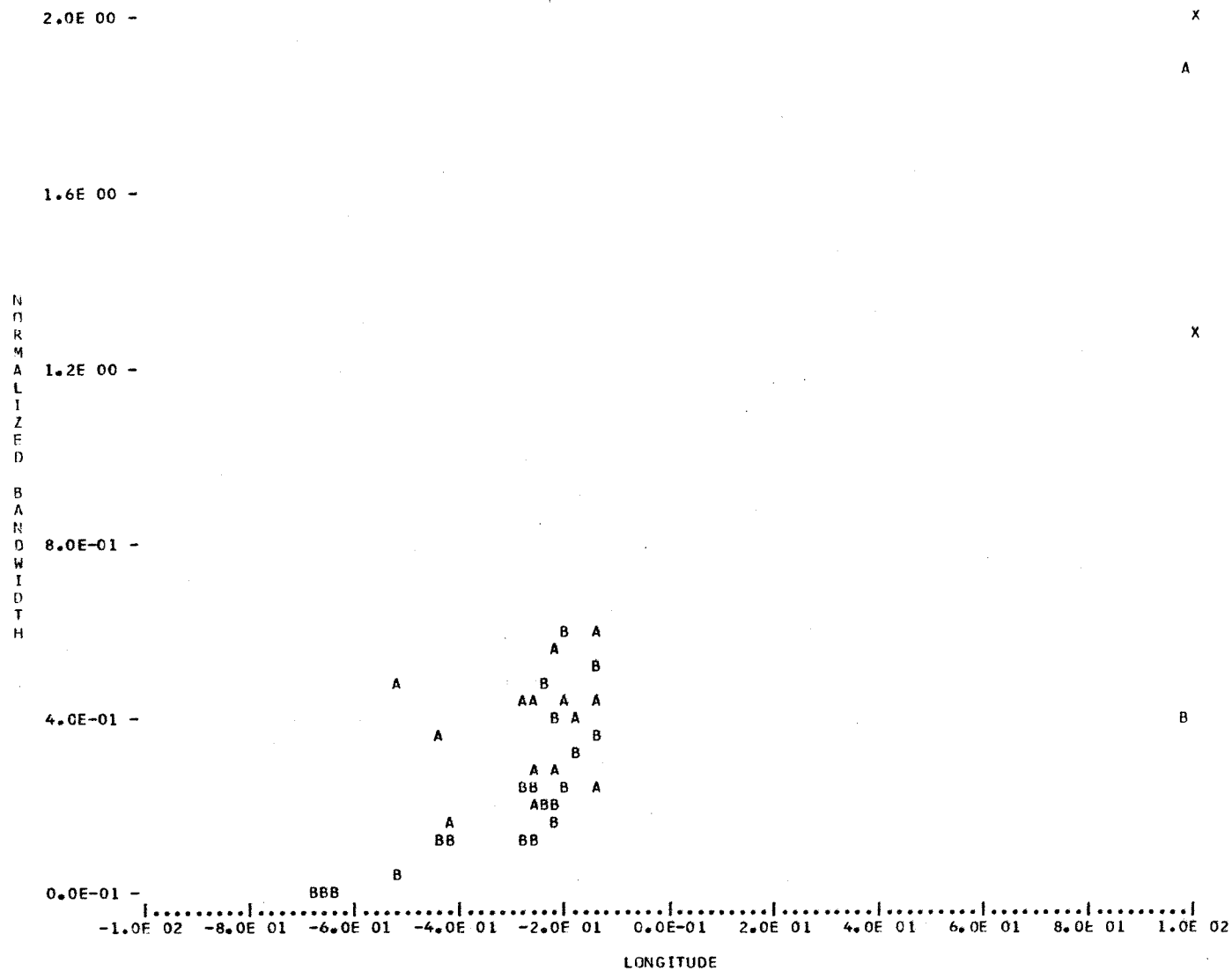
NORMALIZED BANDWIDTH VS LONGITUDE



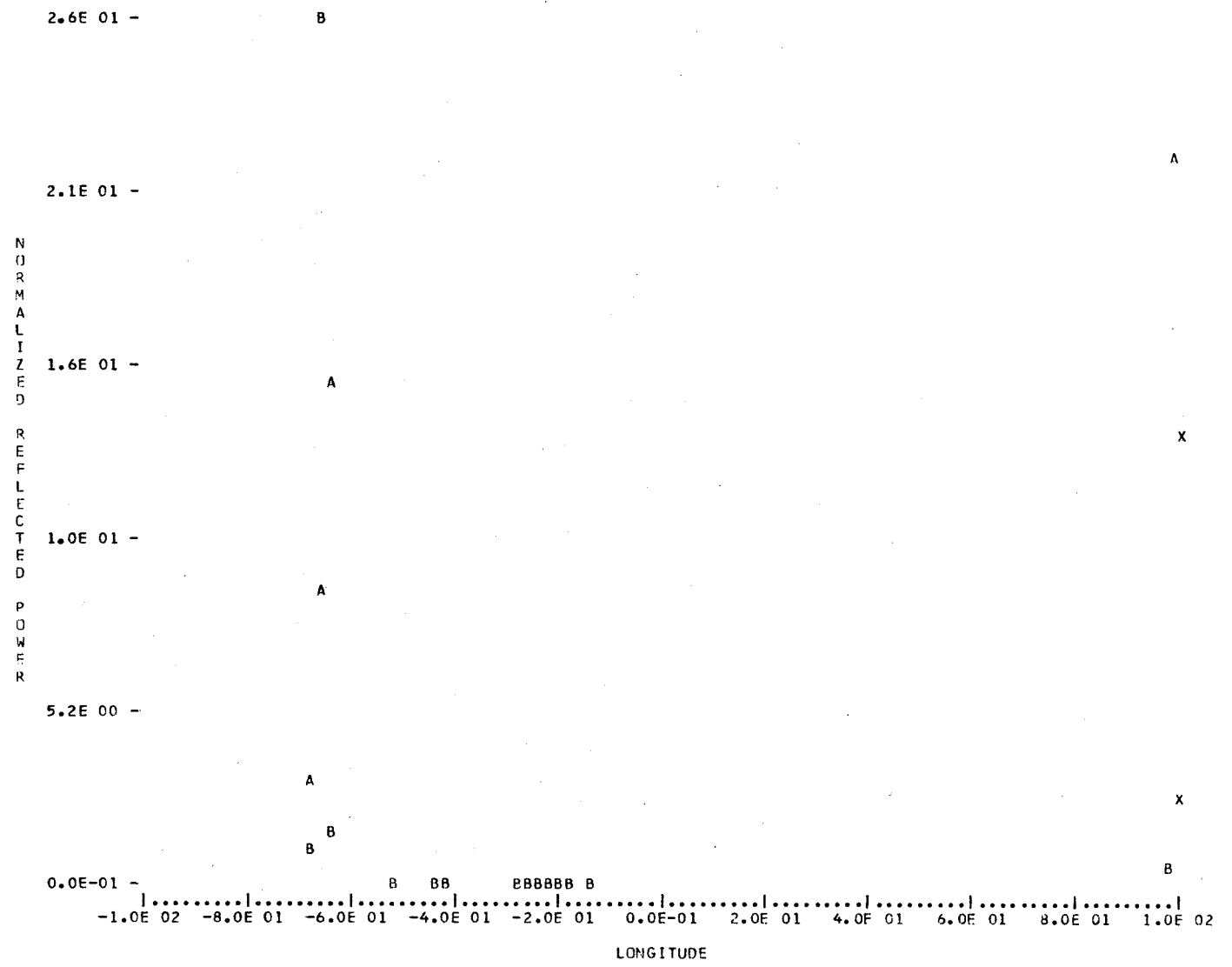
NORMALIZED REFLECTED POWER VS LONGITUDE



NORMALIZED BANDWIDTH VS LONGITUDE

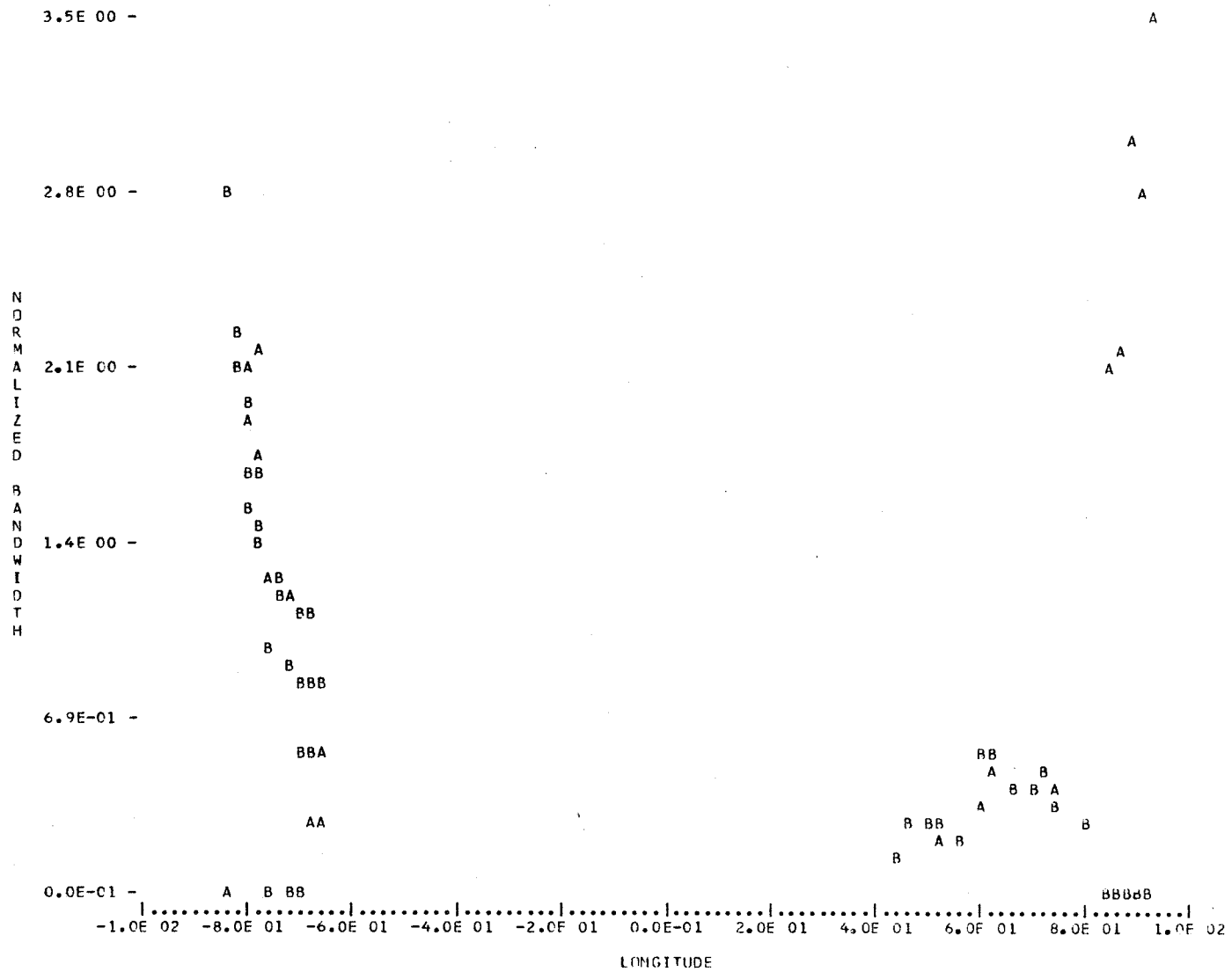


NORMALIZED REFLECTED POWER VS LONGITUDE

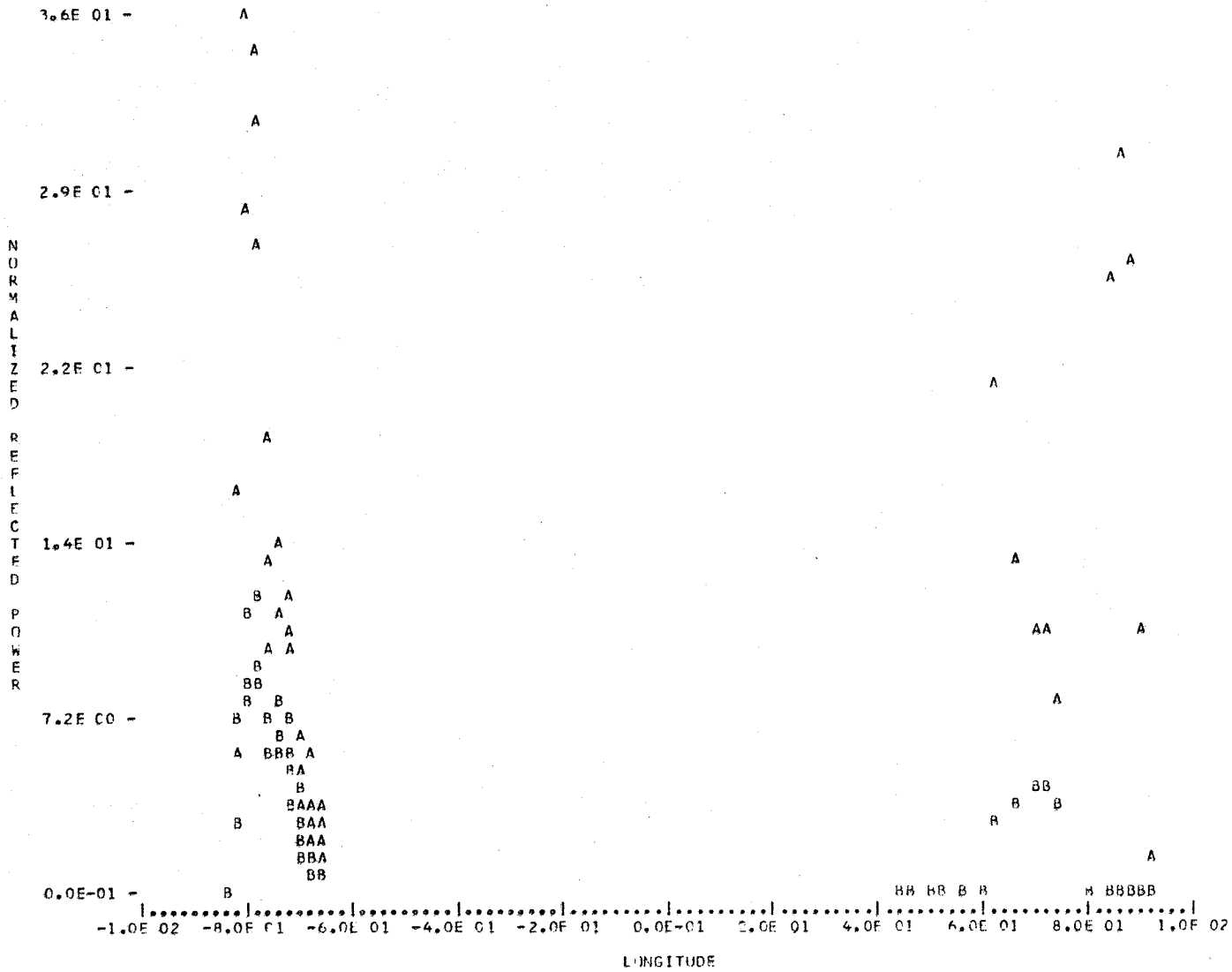


DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	RWNB	PAGE 14
231.23958	-0.534 -0.831 0.156	0.396 -0.873 0.283	5289 759 6226	69.45	240 105.51 81.19	7.2 0.87 0.58E 30	9.7 131.1 7.3	1.225 -0.04314	3.79	0.78	2.34	0.48	4	6	0.553	0.829	
231.24097	-0.543 -0.925 0.155	0.390 -0.875 0.285	5237 766 6181	69.84	237 105.71 81.33	7.2 0.86 0.57E 30	9.7 131.2 7.1	1.231 -0.04077	2.12	1.17	1.30	0.72	2	6	0.276	0.829	
231.24236	-0.552 -0.819 0.154	0.384 -0.878 0.286	5185 773 6136	70.23	235 105.91 81.47	7.2 0.85 0.56E 30	9.7 131.3 7.0	1.251 -0.03902	5.30	1.45	3.25	0.89	4	6	0.553	0.829	
231.24374	-0.562 -0.813 0.152	0.378 -0.880 0.288	5132 780 6096	70.62	232 106.12 81.61	7.2 0.85 0.56E 30	9.6 131.5 6.9	1.265 -0.03722	4.13	0.88	2.51	0.54	4	6	0.554	0.830	
231.24513	-0.571 -0.807 0.151	0.371 -0.882 0.290	5078 787 6050	71.02	229 106.33 81.76	7.2 0.84 0.55E 30	9.6 131.6 6.7	1.264 -0.03496	3.86	0.80	2.34	0.48	6	6	0.831	0.831	
231.24652	-0.580 -0.801 0.150	0.365 -0.884 0.292	5024 794 6006	71.42	226 106.54 81.92	7.2 0.83 0.54E 30	9.6 131.7 6.6	1.279 -0.03329	4.49	0.91	2.71	0.55	2	4	0.277	0.555	
231.24791	-0.591 -0.793 0.149	0.357 -0.887 0.294	4968 802 5959	71.84	224 106.76 82.08	7.2 0.82 0.53E 30	9.6 131.8 6.5	1.294 -0.03159	6.13	1.77	3.69	1.06	6	6	0.835	0.835	
231.24930	-0.602 -0.785 0.148	0.348 -0.890 0.296	4913 809 5913	72.26	221 106.98 82.25	7.2 0.81 0.52E 30	9.5 131.9 6.3	1.286 -0.02944	10.04	2.62	6.08	1.59	6	8	0.837	1.116	
231.25069	-0.612 -0.777 0.146	0.341 -0.892 0.298	4856 817 5864	72.69	218 107.21 82.43	7.1 0.81 0.51E 30	9.5 132.1 6.2	1.293 -0.02778	6.47	2.08	3.85	1.24	6	6	0.840	0.840	
231.25208	-0.621 -0.770 0.145	0.334 -0.893 0.301	4799 825 5816	73.13	214 107.44 82.61	7.1 0.80 0.50E 30	9.5 132.2 6.0	1.282 -0.02573	6.52	3.70	3.86	2.19	6	4	0.844	0.562	
231.25347	-0.631 -0.762 0.143	0.327 -0.895 0.303	4742 833 5770	73.57	211 107.67 82.79	7.1 0.79 0.49E 30	9.5 132.3 5.8	1.268 -0.02376	8.77	4.14	5.17	2.44	6	6	0.848	0.848	
231.25486	-0.641 -0.754 0.141	0.319 -0.897 0.305	4683 841 5721	74.03	207 107.92 82.99	7.0 0.78 0.48E 30	9.4 132.4 5.7	1.274 -0.02223	11.05	5.28	6.55	3.13	***	***	*****	*****	
231.25624	-0.651 -0.746 0.140	0.311 -0.899 0.308	4624 850 5673	74.49	203 108.17 83.20	7.0 0.77 0.47E 30	9.4 132.5 5.5	1.255 -0.02036	11.52	6.79	6.79	4.00	8	8	1.143	1.143	
231.25763	-0.661 -0.738 0.138	0.303 -0.901 0.310	4565 858 5626	74.96	198 108.42 83.41	6.9 0.75 0.47E 30	9.4 132.7 5.3	1.232 -0.01858	12.43	6.20	7.38	3.68	***	***	*****	*****	
231.25902	-0.671 -0.729 0.137	0.295 -0.902 0.313	4504 867 5576	75.45	194 108.69 83.63	6.9 0.74 0.46E 30	9.3 132.8 5.1	1.209 -0.01684	16.85	8.42	10.05	5.02	***	***	*****	*****	
231.26041	-0.681 -0.720 0.135	0.287 -0.904 0.316	4444 876 5527	75.93	190 108.95 83.86	6.8 0.73 0.45E 30	9.3 132.9 4.9	1.184 -0.01522	20.29	9.32	12.04	5.53	8	6	1.172	0.879	
231.26180	-0.691 -0.710 0.133	0.279 -0.906 0.319	4382 885 5474	76.44	184 109.23 84.11	6.8 0.72 0.44E 30	9.2 133.1 4.7	1.154 -0.01366	18.20	11.74	10.84	7.00	***	***	*****	*****	
231.26319	-0.701 -0.701 0.132	0.270 -0.907 0.322	4319 894 5424	76.95	179 109.51 84.36	6.7 0.71 0.43E 30	9.2 133.2 4.5	1.125 -0.01219	19.04	9.51	11.27	5.63	8	8	1.199	1.199	
231.26458	-0.712 -0.690 0.130	0.261 -0.909 0.325	4256 904 5373	77.48	173 109.81 84.62	6.6 0.69 0.42E 30	9.2 133.3 4.2	1.068 -0.01053	19.13	13.81	11.41	8.23	8	8	1.214	1.214	

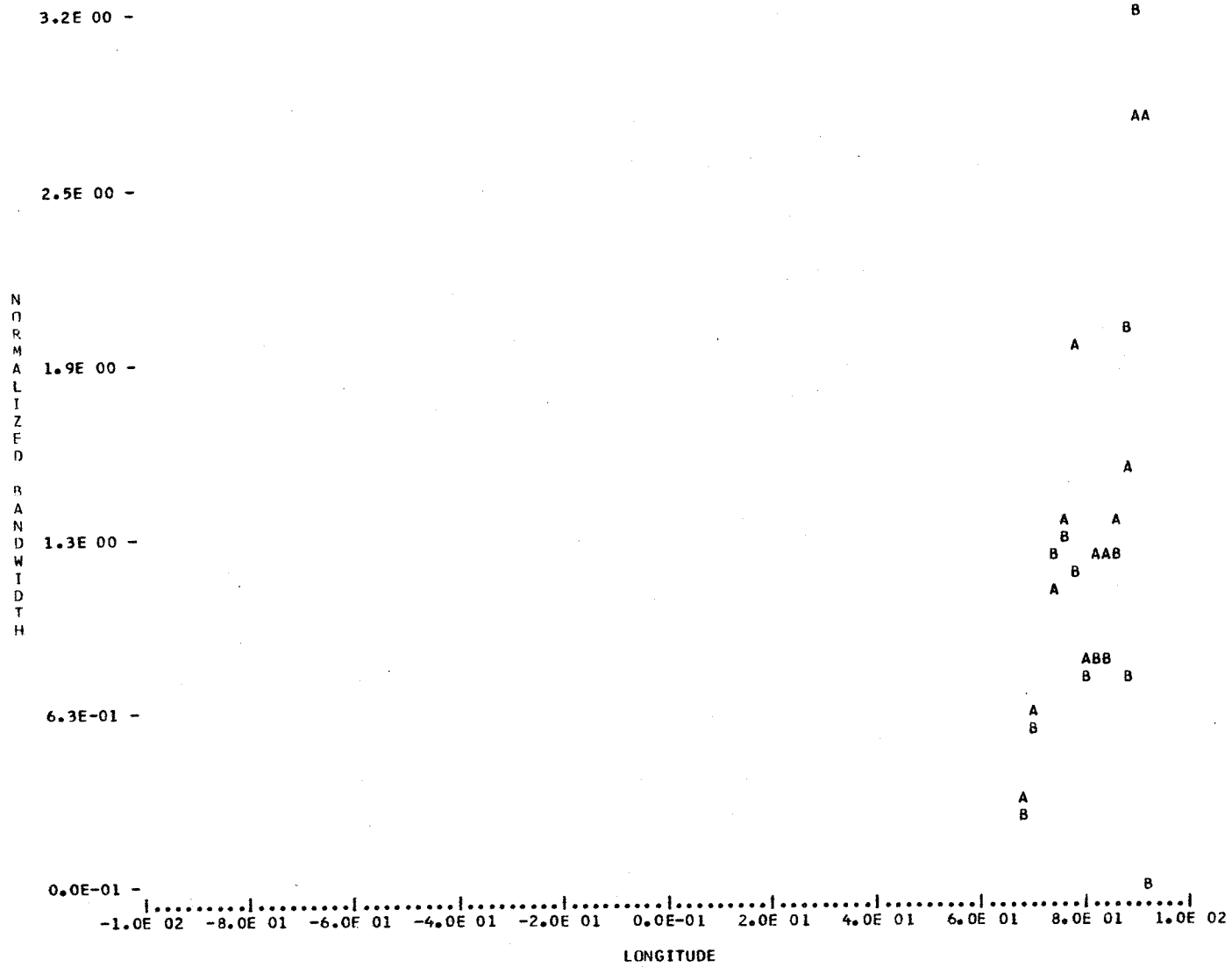
NORMALIZED BANDWIDTH VS LONGITUDE



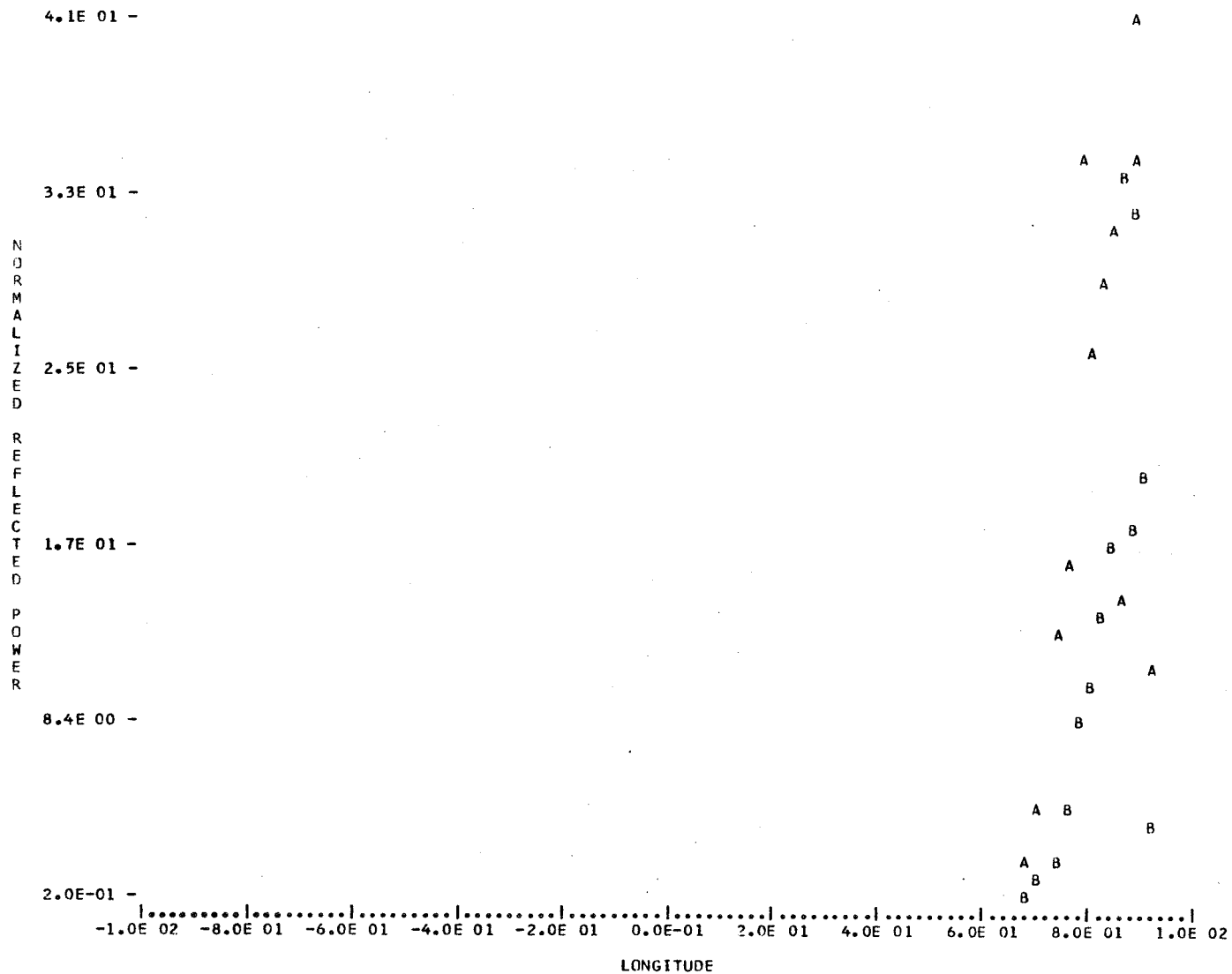
NORMALIZED REFLECTED POWER VS LONGITUDE



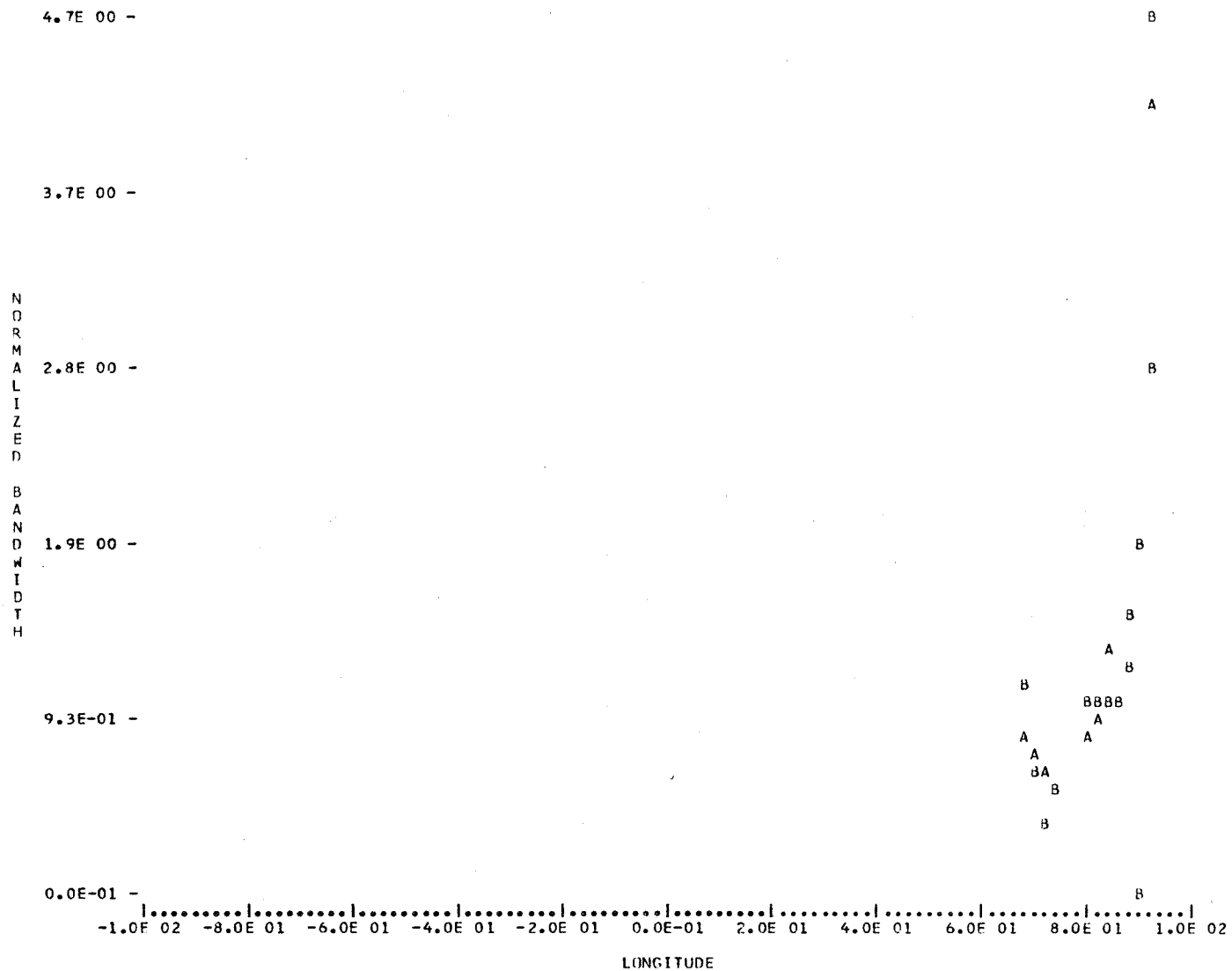
NORMALIZED BANDWIDTH VS LONGITUDE



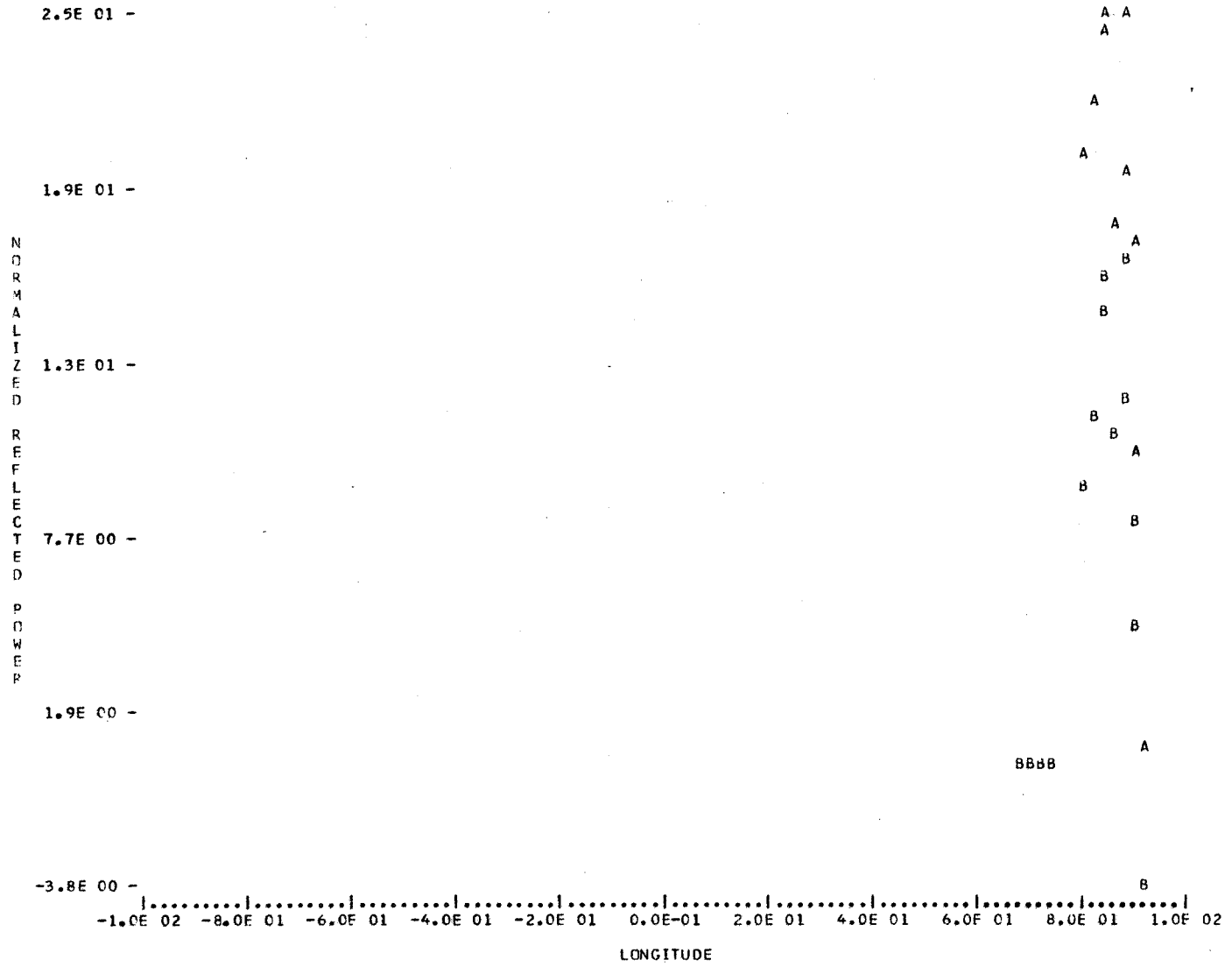
NORMALIZED REFLECTED POWER VS LONGITUDE



NORMALIZED BANDWIDTH VS LONGITUDE



NORMALIZED REFLECTED POWER VS LONGITUDE



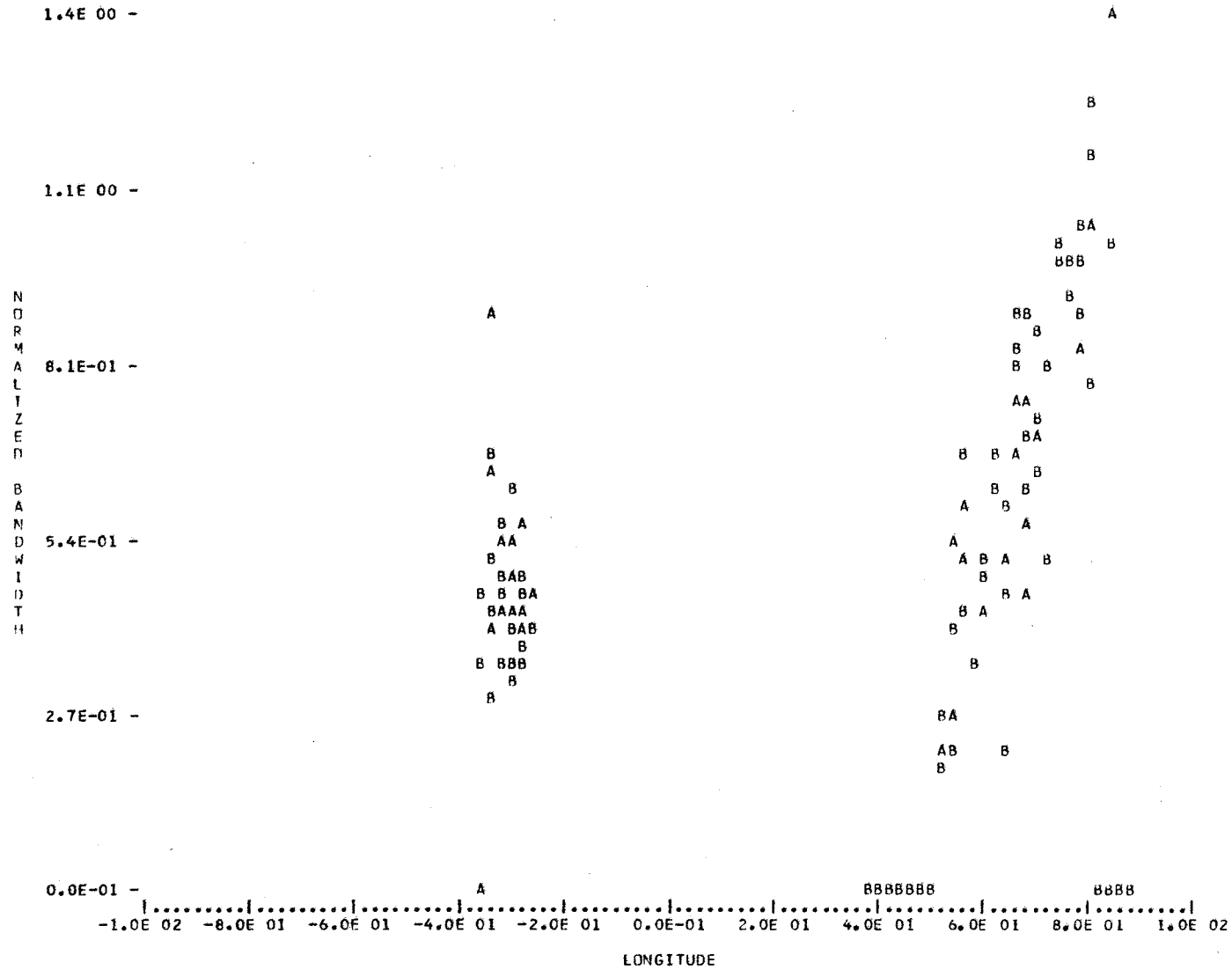
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	HWNB	PAGE	29
235.59791	-0.921 0.373 0.105	0.029 0.952 0.306	3628 1004 5005	87.75	-17 108.28 86.45	2.6 0.21 0.34E 30	8.9 94.2 2.8	0.949 0.00262	2.87	0.46	4.65	0.75	***	***	*****	*****		
235.59930	-0.914 0.392 0.102	0.037 0.957 0.287	3559 1015 4923	87.38	-20 107.10 86.32	2.9 0.24 0.33E 30	8.9 95.4 2.9	1.000 0.00319	7.02	2.13	9.71	2.95	***	***	*****	*****		
235.60069	-0.906 0.411 0.099	0.045 0.962 0.268	3491 1027 4840	87.00	-23 105.92 86.19	3.2 0.26 0.32E 30	8.9 96.7 3.0	1.053 0.00379	4.22	1.78	5.25	2.22	***	***	*****	*****		
235.60208	-0.898 0.429 0.095	0.052 0.966 0.251	3421 1039 4754	86.59	-26 104.87 86.10	3.4 0.28 0.31E 30	8.9 97.8 3.0	1.072 0.00433	15.64	6.13	17.61	6.90	***	***	*****	*****		
235.60347	-0.889 0.447 0.092	0.059 0.970 0.234	3352 1052 4665	86.18	-30 103.82 86.01	3.7 0.31 0.30E 30	9.0 98.9 3.1	1.127 0.00502	18.11	6.61	17.72	6.47	***	***	*****	*****		
235.60486	-0.880 0.465 0.088	0.067 0.973 0.217	3281 1065 4579	85.76	-33 102.83 85.94	4.0 0.33 0.30E 30	9.0 99.9 3.2	1.183 0.00574	20.48	4.33	18.30	3.87	***	***	*****	*****		
235.60624	-0.870 0.484 0.085	0.074 0.976 0.202	3210 1078 4489	85.31	-37 101.88 85.89	4.3 0.36 0.29E 30	9.0 100.9 3.2	1.204 0.00632	15.18	4.11	12.09	3.27	***	***	*****	*****		
235.60763	-0.860 0.503 0.081	0.082 0.979 0.187	3139 1091 4402	84.87	-41 100.94 85.84	4.6 0.38 0.28E 30	9.0 101.9 3.2	1.223 0.00683	7.07	2.24	5.18	1.65	***	***	*****	*****		
235.60902	-0.848 0.523 0.077	0.090 0.981 0.173	3067 1105 4308	84.39	-45 100.09 85.83	4.9 0.40 0.27E 30	9.0 102.7 3.3	1.283 0.00764	10.59	5.02	7.16	3.40	***	***	*****	*****		
235.61041	-0.837 0.542 0.073	0.099 0.982 0.160	2995 1119 4222	83.91	-49 -99.23 85.82	5.2 0.42 0.26E 30	9.0 103.6 3.3	1.303 0.00814	11.36	6.31	7.10	3.94	***	***	*****	*****		
235.61180	-0.824 0.562 0.069	0.108 0.983 0.147	2922 1133 4130	83.41	-52 -98.41 85.83	5.5 0.44 0.26E 30	9.0 104.4 3.3	1.323 0.00863	16.98	9.49	9.81	5.48	***	***	*****	*****		
235.61319	-0.809 0.583 0.064	0.117 0.984 0.134	2849 1148 4032	82.88	-56 -97.62 85.86	5.9 0.46 0.25E 30	9.0 105.2 3.2	1.301 0.00879	19.70	12.14	10.55	6.50	8	6	1.354	1.015		
235.61597	-0.777 0.625 0.055	0.137 0.985 0.110	2701 1179 3838	81.77	-65 -96.12 85.96	6.7 0.50 0.23E 30	9.0 106.6 3.2	1.338 0.00946	16.59	13.33	7.65	6.15	***	***	*****	*****		
235.61736	-0.760 0.648 0.050	0.148 0.984 0.099	2626 1194 3745	81.20	-69 -95.39 86.03	7.2 0.52 0.22E 30	9.0 107.3 3.1	1.311 0.00931	22.99	19.36	9.86	8.30	***	***	*****	*****		
235.61874	-0.741 0.670 0.045	0.159 0.983 0.088	2552 1210 3647	80.59	-74 -94.70 86.13	7.7 0.54 0.22E 30	8.9 107.9 3.0	1.284 0.00910	16.82	21.82	6.79	8.81	8	6	1.039	0.780		
235.62013	-0.721 0.691 0.040	0.170 0.982 0.077	2477 1227 3546	79.96	-78 -94.02 86.24	8.3 0.56 0.21E 30	8.9 108.5 2.9	1.254 0.00872	24.39	22.86	9.16	8.59	10	10	1.208	1.208		
235.62152	-0.701 0.712 0.034	0.181 0.981 0.067	2402 1244 3448	79.32	-82 -93.35 86.36	8.9 0.58 0.20E 30	8.9 109.1 2.8	1.220 0.00815	24.35	22.31	8.52	7.80	10	10	1.130	1.130		
235.62291	-0.677 0.734 0.028	0.193 0.979 0.057	2327 1262 3343	78.62	-86 -92.73 86.52	9.6 0.60 0.19E 30	8.9 109.7 2.7	1.184 0.00740	30.02	23.65	9.79	7.71	8	10	0.834	1.041		
235.62430	-0.654 0.756 0.022	0.205 0.978 0.047	2252 1279 3245	77.91	-90 -92.10 86.69	10.3 0.63 0.18E 30	8.9 110.2 2.6	1.146 0.00653	32.14	26.75	9.62	8.00	10	10	0.967	0.967		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL 0	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	PNB	IBWA	IBWB	BWNA	BWNR	PAGE	30
235.62569	-0.628 0.778 0.016	0.218 0.976 0.037	2177 1297 3142	77.17	-95 -91.50 86.88	-95 0.65 0.18E 30	8.8 110.7 2.4	1.060 0.00522	29.30	17.19	8.27	4.85	10	10	0.892	0.892		
235.62708	-0.600 0.799 0.009	0.231 0.973 0.028	2102 1316 3036	76.38	-99 -90.91 87.10	-99 0.68 0.17E 30	8.8 111.1 2.3	1.017 0.00402	30.60	15.02	7.95	3.90	12	12	0.985	0.985		
235.62847	-0.572 0.820 0.002	0.244 0.970 0.018	2027 1335 2934	75.59	-104 -90.33 87.33	-104 0.70 0.17E 30	8.8 111.6 2.1	0.923 0.00240	31.06	18.87	7.53	4.58	12	12	0.912	0.912		
235.62986	-0.538 0.842 -0.005	0.260 0.965 0.009	1953 1355 2827	74.70	-107 -89.79 87.62	-107 0.73 0.16E 30	8.7 111.9 1.9	0.832 0.00082	34.30	16.29	7.75	3.68	14	14	0.966	0.966		
235.63124	-0.503 0.863 -0.012	0.277 0.960 0.000	1879 1374 2722	73.81	-111 -89.25 87.91	-111 0.76 0.15E 30	8.7 112.3 1.6	0.690 -0.00081	39.47	15.53	8.23	3.24	16	16	1.011	1.011		
235.63263	-0.467 0.883 -0.020	0.293 0.955 -0.008	1806 1394 2617	72.86	-116 -88.74 88.24	-116 0.79 0.15E 30	8.6 112.6 1.4	0.593 -0.00229	39.12	18.66	7.62	3.64	14	14	0.805	0.805		
235.63402	-0.428 0.902 -0.029	0.310 0.950 -0.017	1734 1415 2509	71.85	-119 -88.25 88.61	-119 0.82 0.14E 30	8.6 112.9 1.1	0.452 -0.00334	47.80	16.37	8.61	2.95	10	10	0.521	0.521		
235.63576	-0.378 0.925 -0.039	0.332 0.943 -0.028	1645 1440 2382	70.55	-124 -87.65 89.10	-124 0.86 0.14E 30	8.5 113.2 0.7	0.274 -0.00358	12.25	0.64	2.02	0.10	16	16	0.740	0.740		
235.63645	-0.355 0.932 -0.044	0.341 0.939 -0.032	1610 1451 2323	69.96	-126 -87.44 89.33	-126 0.88 0.13E 30	8.5 113.3 0.5	0.190 -0.00307	15.61	1.68	2.47	0.27	16	20	0.699	0.874		
235.63715	-0.332 0.940 -0.048	0.351 0.935 -0.036	1575 1462 2270	69.38	-128 -87.23 89.56	-128 0.90 0.13E 30	8.5 113.3 0.3	0.111 -0.00216	12.11	4.04	1.83	0.61	16	16	0.663	0.663		
235.63784	-0.310 0.948 -0.052	0.360 0.932 -0.040	1541 1472 2219	68.80	-129 -87.01 89.80	-129 0.92 0.13E 30	8.4 113.4 0.2	0.071 -0.00166	9.15	-0.81	1.34	-0.12	12	16	0.473	0.631		
235.63854	-0.287 0.955 -0.057	0.369 0.928 -0.044	1506 1483 2166	68.21	-131 -86.80 90.03	-131 0.94 0.12E 30	8.4 113.5 0.0	0.000 0.00000	14.88	3.57	2.09	0.50	20	24	0.752	0.902		
235.63923	-0.263 0.962 -0.061	0.379 0.923 -0.048	1473 1493 2116	67.58	-132 -86.61 90.29	-132 0.96 0.12E 30	8.4 113.4 -0.2	-0.065 0.00215	17.97	2.30	2.42	0.31	16	20	0.569	0.711		
235.63993	-0.237 0.967 -0.066	0.390 0.918 -0.052	1440 1504 2060	66.90	-134 -86.44 90.59	-134 0.99 0.12E 30	8.3 113.3 -0.3	-0.092 0.00367	12.62	2.42	1.64	0.31	20	24	0.669	0.804		
235.64062	-0.210 0.973 -0.071	0.401 0.913 -0.056	1407 1514 2007	66.22	-136 -86.27 90.88	-136 1.01 0.11E 30	8.3 113.2 -0.5	-0.144 0.00686	16.20	3.54	2.01	0.44	24	28	0.759	0.885		
235.64131	-0.184 0.978 -0.075	0.412 0.909 -0.060	1375 1524 1955	65.54	-137 -86.10 91.18	-137 1.03 0.11E 30	8.3 113.2 -0.7	-0.184 0.01062	8.88	0.86	1.06	0.10	28	28	0.840	0.840		
235.64201	-0.158 0.983 -0.080	0.423 0.904 -0.064	1342 1535 1906	64.86	-139 -85.93 91.47	-139 1.06 0.11E 30	8.3 113.1 -0.8	-0.191 0.01331	10.19	1.81	1.16	0.21	16	16	0.455	0.455		
235.64270	-0.130 0.987 -0.084	0.434 0.898 -0.068	1311 1545 1855	64.12	-140 -85.80 91.80	-140 1.08 0.11E 30	8.2 112.9 -1.0	-0.210 0.01828	11.15	1.57	1.23	0.17	8	8	0.215	0.215		
235.64340	-0.101 0.988 -0.089	0.447 0.891 -0.072	1282 1555 1803	63.31	-141 -85.70 92.17	-141 1.11 0.11E 30	8.2 112.7 -1.2	-0.210 0.02394	6.90	2.92	0.73	0.31	20	24	0.504	0.605		

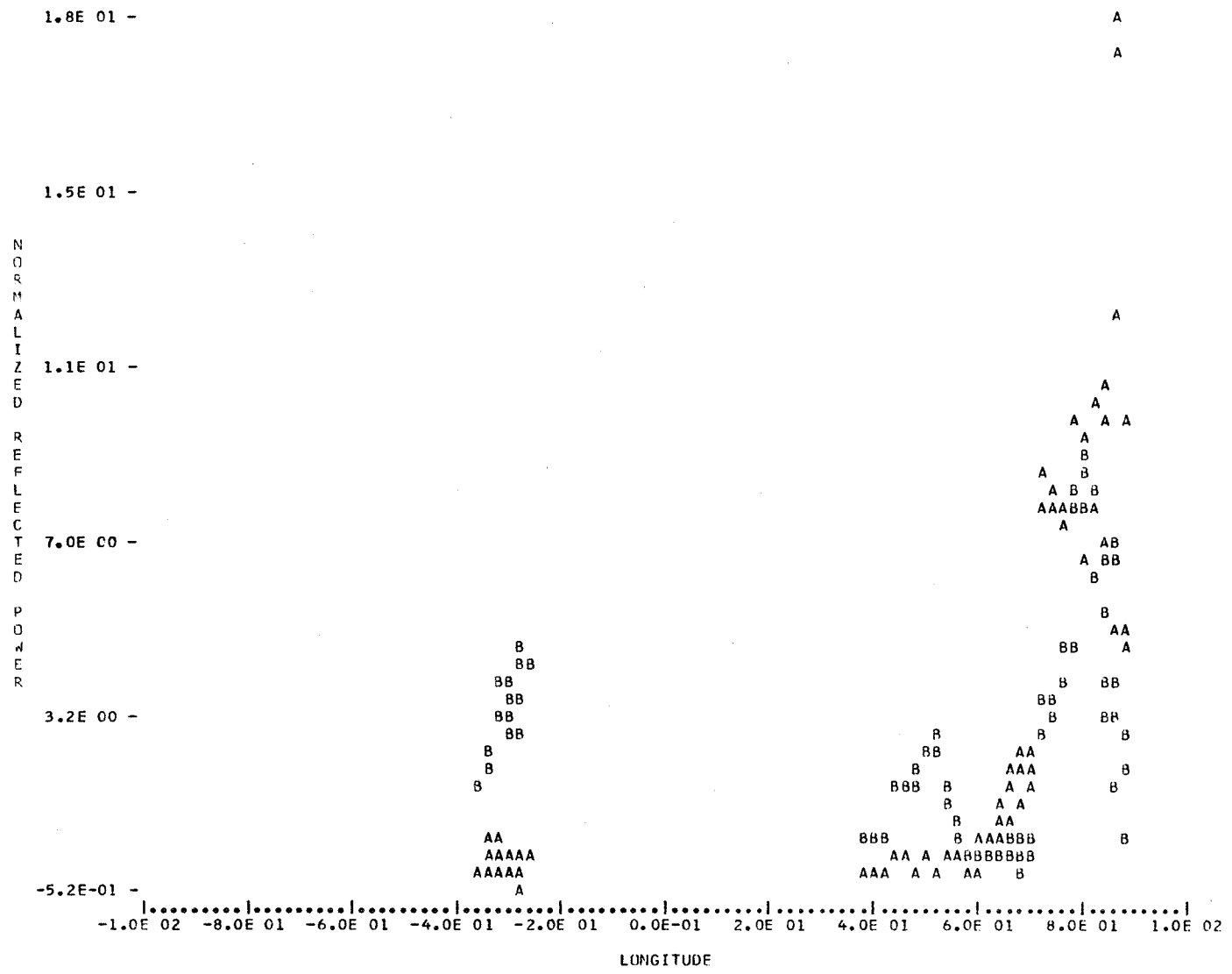
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	RW SIGPRE SIGFAC	S C X	ALGGH DLGGH	REFA	REFB	RNA	PMB	IBWA	IBWB	PWNA	RWNB	PAGE	31
235.64409	-0.071 0.990 -0.095	0.459 0.884 -0.075	1253 1565 1753	62.50	-143 -85.60 92.54	42.1 1.14 0.10E 30	8.1 112.5 -1.4	-0.191 0.03001	7.30	1.17	0.75	0.12	28	28	0.664	0.664		
235.64479	-0.042 0.992 -0.100	0.471 0.877 -0.079	1223 1575 1706	61.70	-144 -85.50 92.90	44.6 1.17 0.10E 30	8.1 112.2 -1.6	-0.154 0.03654	7.66	0.51	0.75	0.05	28	28	0.628	0.628		
235.64548	-0.013 0.993 -0.104	0.484 0.870 -0.083	1194 1585 1661	60.89	-145 -85.40 93.27	47.0 1.20 0.10E 30	8.1 112.0 -1.8	-0.092 0.04275	6.52	3.19	0.61	0.30	20	24	0.425	0.510		
235.64618	0.018 0.992 -0.109	0.497 0.862 -0.087	1166 1595 1612	60.01	-146 -85.35 93.68	50.0 1.23 0.99E 29	8.0 111.7 -2.1	-0.001 0.05134	4.69	3.21	0.42	0.29	24	24	0.480	0.480		
235.64687	0.051 0.989 -0.114	0.512 0.853 -0.090	1141 1604 1563	59.06	-148 -85.35 94.13	53.4 1.26 0.97E 29	8.0 111.3 -2.3	0.131 0.05703	0.31	1.88	0.03	0.16	28	28	0.525	0.525		
235.64756	0.084 0.985 -0.118	0.527 0.843 -0.093	1116 1614 1516	58.10	-150 -85.36 94.58	56.8 1.30 0.96E 29	7.9 110.9 -2.6	0.305 0.06355	-0.16	2.06	-0.01	0.17	20	20	0.352	0.352		
235.64826	0.118 0.982 -0.123	0.542 0.833 -0.097	1090 1623 1473	57.14	-152 -85.36 95.02	60.2 1.33 0.94E 29	7.9 110.5 -2.8	0.499 0.06555	0.93	7.72	0.07	0.62	36	40	0.598	0.665		
235.64895	0.151 0.979 -0.128	0.557 0.824 -0.100	1065 1632 1433	56.19	-154 -85.37 95.47	63.5 1.36 0.92E 29	7.9 110.1 -2.9	0.689 0.06311	2.81	10.46	0.22	0.81	32	23	0.503	0.441		
235.64965	0.184 0.972 -0.132	0.572 0.813 -0.104	1042 1641 1389	55.14	-156 -85.46 95.96	67.5 1.40 0.90E 29	7.8 109.6 -3.1	0.935 0.05999	5.22	17.40	0.39	1.30	36	28	0.533	0.414		
235.65034	0.218 0.963 -0.137	0.588 0.800 -0.107	1021 1649 1348	54.00	-158 -85.63 96.49	72.0 1.44 0.89E 29	7.8 108.9 -3.2	1.187 0.05187	2.28	24.41	0.16	1.74	20	16	0.277	0.222		
235.65104	0.252 0.953 -0.141	0.604 0.787 -0.110	1001 1657 1308	52.86	-161 -85.80 97.02	76.4 1.48 0.88E 29	7.7 108.2 -3.4	1.474 0.04268	-0.95	33.79	-0.07	2.34	16	20	0.209	0.262		
235.65173	0.286 0.943 -0.145	0.619 0.775 -0.113	981 1664 1269	51.73	-164 -85.98 97.56	80.9 1.52 0.87E 29	7.7 107.6 -3.5	1.694 0.03066	0.37	43.76	0.02	2.91	16	16	0.198	0.198		
235.65243	0.320 0.934 -0.150	0.635 0.762 -0.116	960 1672 1236	50.59	-166 -86.15 98.09	85.4 1.56 0.86E 29	7.7 106.9 -3.7	1.953 0.01880	2.09	36.14	0.13	2.31	***	***	*****	*****		
235.65312	0.354 0.921 -0.154	0.652 0.748 -0.119	943 1679 1201	49.35	-170 -86.45 98.65	90.3 1.60 0.84E 29	7.6 106.1 -3.8	2.147 0.00545	-1.49	28.48	-0.09	1.77	***	***	*****	*****		
235.65381	0.388 0.904 -0.157	0.669 0.731 -0.122	929 1684 1166	48.02	-174 -86.88 99.23	95.7 1.64 0.83E 29	7.6 105.1 -4.0	2.383 -0.00766	-1.30	37.54	-0.08	2.26	***	***	*****	*****		
235.65451	0.422 0.887 -0.161	0.685 0.715 -0.124	915 1690 1133	46.69	-179 -87.31 99.82	101.0 1.68 0.82E 29	7.5 104.2 -4.1	2.502 -0.01766	1.67	31.42	0.10	1.85	***	***	*****	*****		
235.65520	0.456 0.870 -0.165	0.702 0.699 -0.126	900 1696 1102	45.37	-183 -87.74 100.41	106.3 1.72 0.81E 29	7.5 103.2 -4.2	2.589 -0.02508	1.44	28.74	0.08	1.63	***	***	*****	*****		
235.65590	0.490 0.853 -0.168	0.719 0.682 -0.129	886 1701 1076	44.04	-187 -88.18 100.99	111.7 1.76 0.80E 29	7.5 102.2 -4.1	2.513 -0.02829	0.93	32.23	0.05	1.77	***	***	*****	*****		
235.65659	0.523 0.833 -0.171	0.736 0.663 -0.131	875 1705 1051	42.62	-193 -88.79 101.58	117.0 1.80 0.80E 29	7.4 101.1 -4.1	2.469 -0.02976	-0.74	13.19	-0.04	0.71	***	***	*****	*****		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNH	IRWA	IBWB	BWNA	BWNB	PAGE 32
235.65729	0.554 0.809 -0.174	0.753 0.642 -0.132	868 1708 1026	41.11	-200 -89.59 102.15	122.4 1.83 0.79E 29	7.4 99.8 -4.1	2.405 -0.02952	-1.14	11.83	-0.06	0.63	***	***	*****	*****	
235.65798	0.585 0.785 -0.176	0.769 0.621 -0.134	861 1712 1004	39.61	-208 -90.38 102.73	127.8 1.87 0.79E 29	7.4 98.5 -4.0	2.267 -0.02711	-0.73	13.72	-0.04	0.71	***	***	*****	*****	
235.69409	0.752 -0.656 -0.052	0.895 -0.445 -0.029	2021 1337 2122	26.71	-252 91.94 96.36	59.5 1.58 0.17E 30	7.8 106.6 -3.2	1.206 -0.00437	0.57	37.72	0.07	4.56	28	24	0.471	0.404	
235.69479	0.740 -0.670 -0.048	0.891 -0.454 -0.027	2058 1327 2164	27.29	-245 91.55 96.06	57.7 1.56 0.17E 30	7.8 106.5 -3.1	1.180 -0.00448	0.09	21.60	0.01	2.69	24	20	0.417	0.347	
235.69548	0.728 -0.683 -0.045	0.886 -0.463 -0.024	2095 1318 2207	27.84	-239 91.25 95.77	56.0 1.55 0.17E 30	7.8 106.4 -3.0	1.153 -0.00457	-2.01	38.34	-0.26	4.91	32	28	0.572	0.500	
235.69618	0.715 -0.695 -0.041	0.882 -0.471 -0.022	2133 1309 2246	28.40	-233 90.94 95.49	54.3 1.53 0.17E 30	7.9 106.4 -2.9	1.125 -0.00464	-4.01	28.05	-0.52	3.66	24	20	0.442	0.369	
235.69687	0.703 -0.708 -0.038	0.877 -0.480 -0.020	2170 1299 2290	28.94	-227 90.64 95.20	52.7 1.52 0.18E 30	7.9 106.4 -2.9	1.136 -0.00486	0.93	32.18	0.12	4.31	24	24	0.455	0.455	
235.69756	0.691 -0.721 -0.035	0.872 -0.489 -0.017	2207 1290 2336	29.50	-221 90.33 94.92	51.0 1.51 0.18E 30	7.9 106.3 -2.8	1.109 -0.00495	2.04	28.42	0.28	3.91	28	32	0.549	0.627	
235.69826	0.679 -0.733 -0.031	0.868 -0.497 -0.015	2245 1281 2380	30.01	-215 90.08 94.65	49.5 1.49 0.18E 30	7.9 106.3 -2.6	1.039 -0.00479	1.86	23.47	0.26	3.33	24	20	0.485	0.404	
235.69895	0.666 -0.743 -0.028	0.863 -0.505 -0.013	2282 1272 2417	30.50	-209 89.88 94.40	48.1 1.48 0.19E 30	8.0 106.3 -2.5	1.008 -0.00480	1.19	20.42	0.17	2.94	24	16	0.498	0.333	
235.69965	0.653 -0.755 -0.025	0.858 -0.513 -0.011	2320 1263 2463	30.99	-203 89.67 94.15	46.8 1.47 0.19E 30	8.0 106.3 -2.3	0.936 -0.00459	-0.07	25.58	-0.01	3.77	20	16	0.428	0.342	
235.70034	0.641 -0.766 -0.022	0.853 -0.521 -0.009	2358 1254 2509	31.48	-197 89.47 93.89	45.4 1.46 0.19E 30	8.0 106.3 -2.2	0.904 -0.00456	0.40	21.29	0.06	3.22	20	16	0.441	0.352	
235.70104	0.628 -0.777 -0.019	0.848 -0.529 -0.007	2395 1245 2553	31.97	-191 89.26 93.64	44.1 1.45 0.20E 30	8.0 106.4 -2.0	0.828 -0.00428	-0.27	25.01	-0.04	3.88	24	20	0.544	0.454	
235.70173	0.616 -0.786 -0.017	0.844 -0.536 -0.005	2433 1237 2594	32.43	-186 89.10 93.40	42.9 1.43 0.20E 30	8.1 106.4 -1.9	0.794 -0.00421	0.11	21.59	0.02	3.42	20	24	0.467	0.560	
235.70243	0.605 -0.795 -0.014	0.840 -0.542 -0.003	2470 1228 2638	32.87	-180 88.96 93.18	41.8 1.42 0.21E 30	8.1 106.5 -1.8	0.758 -0.00410	2.77	20.14	0.45	3.27	24	20	0.575	0.479	
235.70312	0.593 -0.804 -0.011	0.836 -0.549 -0.001	2508 1220 2681	33.31	-174 88.82 92.95	40.6 1.41 0.21E 30	8.1 106.5 -1.7	0.722 -0.00400	2.25	14.58	0.37	2.43	36	28	0.885	0.689	
235.70381	0.581 -0.813 -0.008	0.832 -0.555 0.001	2546 1212 2726	33.74	-169 88.69 92.72	39.5 1.40 0.21E 30	8.1 106.6 -1.5	0.642 -0.00361	1.20	13.02	0.21	2.22	20	12	0.506	0.304	
235.70451	0.570 -0.822 -0.005	0.828 -0.561 0.003	2583 1203 2773	34.18	-163 88.55 92.50	38.4 1.39 0.22E 30	8.2 106.7 -1.4	0.604 -0.00345	1.78	14.70	0.31	2.54	16	20	0.416	0.520	
235.70520	0.558 -0.830 -0.003	0.824 -0.567 0.005	2620 1195 2815	34.60	-158 88.44 92.29	37.4 1.39 0.22E 30	8.2 106.7 -1.3	0.565 -0.00329	3.04	14.48	0.53	2.54	24	16	0.641	0.428	

NORMALIZED BANDWIDTH VS LONGITUDE



NORMALIZED REFLECTED POWER VS LONGITUDE

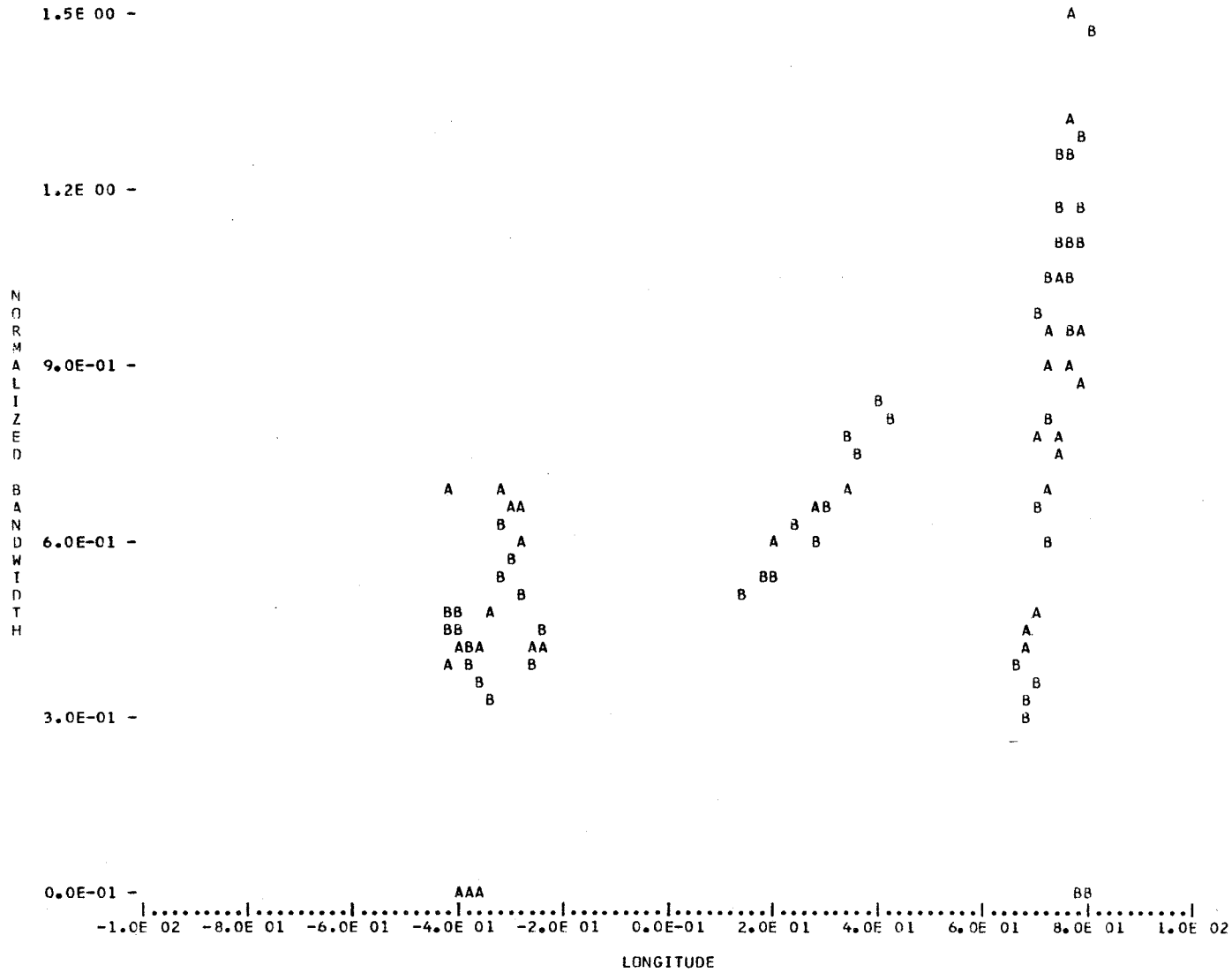


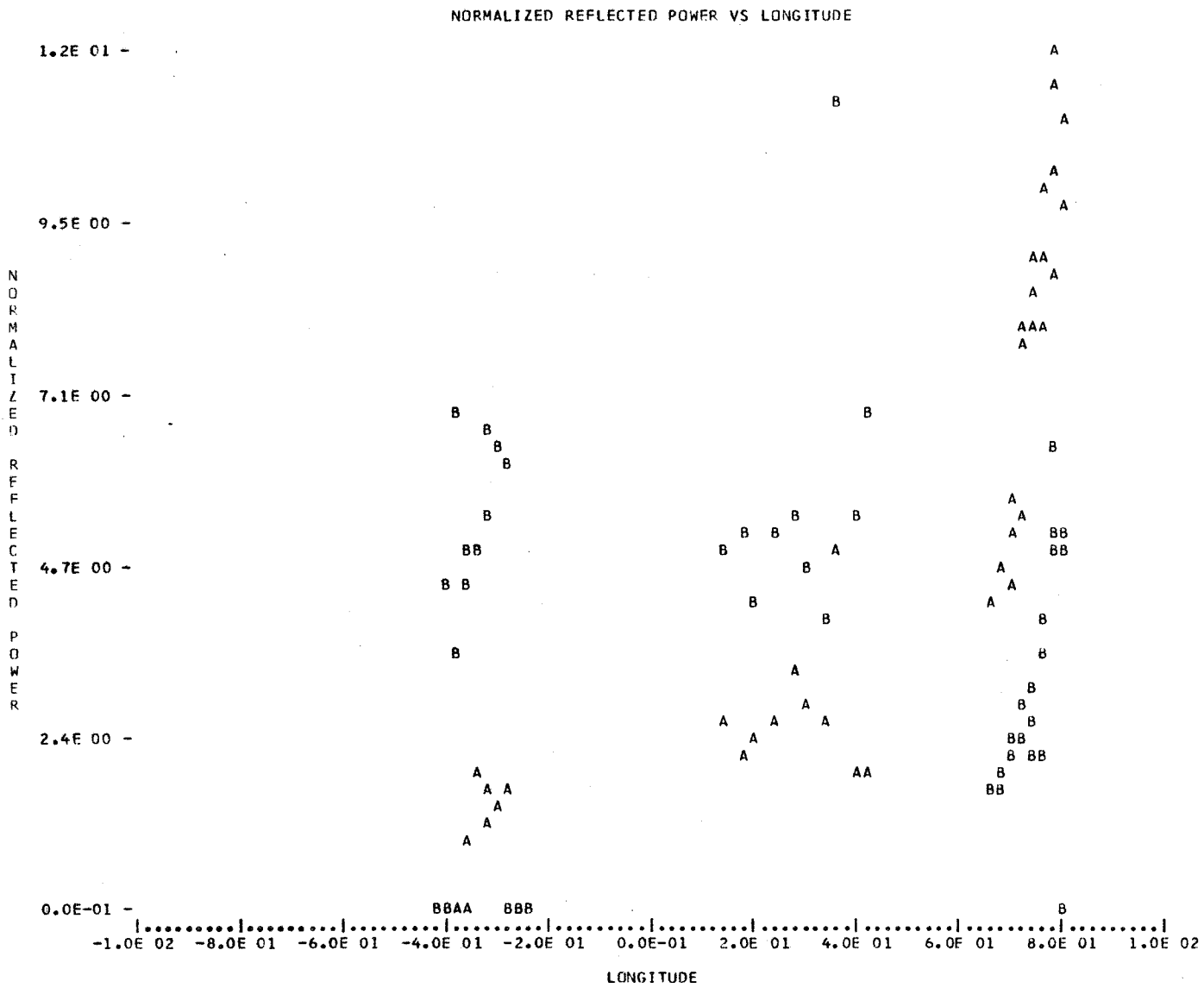
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE
236.56111	-0.793 0.600 0.096	0.169 0.974 0.153	3523 1022 47C6	81.33	-62 -98.87 83.85	5.4 0.54 0.33E 30	9.3 105.1 4.9	2.128 0.01698	*****	*****	*****	*****	6	8	0.000	1.474	
236.56250	-0.782 0.616 0.093	0.176 0.974 0.144	3455 1034 4625	80.91	-65 -98.26 83.87	5.7 0.56 0.32E 30	9.3 105.7 4.9	2.147 0.01716	17.80	9.70	9.71	5.29	***	***	*****	*****	
236.56388	-0.768 0.633 0.090	0.185 0.974 0.135	3385 1046 4535	80.46	-67 -97.69 83.92	5.9 0.57 0.31E 30	9.3 106.3 4.9	2.165 0.01722	20.97	9.37	10.94	4.89	***	***	*****	*****	
236.56527	-0.755 0.650 0.087	0.194 0.973 0.126	3316 1059 4454	80.01	-70 -97.12 83.96	6.2 0.58 0.30E 30	9.3 106.8 4.8	2.138 0.01686	22.91	12.70	11.43	6.34	6	8	0.966	1.288	
236.56666	-0.741 0.666 0.083	0.202 0.973 0.117	3246 1072 4365	79.55	-73 -96.55 84.02	6.5 0.60 0.29E 30	9.3 107.3 4.8	2.153 0.01669	25.19	10.43	11.82	4.89	***	***	*****	*****	
236.56805	-0.726 0.683 0.079	0.210 0.972 0.109	3175 1085 4275	79.06	-76 -96.01 84.09	6.9 0.61 0.28E 30	9.2 107.8 4.7	2.121 0.01598	19.30	11.28	8.75	5.11	6	8	0.876	1.167	
236.56944	-0.712 0.699 0.075	0.218 0.971 0.101	3105 1098 4191	78.57	-79 -95.46 84.16	7.2 0.63 0.27E 30	9.2 108.3 4.6	2.085 0.01504	23.57	11.77	10.05	5.02	8	8	1.113	1.113	
236.57083	-0.695 0.715 0.071	0.227 0.969 0.093	3033 1112 4096	78.05	-81 -94.94 84.26	7.6 0.64 0.26E 30	9.2 108.8 4.6	2.092 0.01418	19.57	9.94	7.97	4.05	10	8	1.315	1.052	
236.57222	-0.678 0.732 0.067	0.236 0.968 0.085	2961 1125 4006	77.52	-84 -94.42 84.35	8.0 0.65 0.25E 30	9.2 109.3 4.5	2.048 0.01273	23.34	5.35	9.08	2.08	12	10	1.497	1.247	
236.57361	-0.660 0.748 0.063	0.245 0.966 0.077	2889 1139 3913	76.97	-87 -93.90 84.46	8.5 0.67 0.25E 30	9.2 109.7 4.4	2.006 0.01122	21.95	9.56	8.03	3.50	8	8	0.943	0.943	
236.57499	-0.641 0.765 0.058	0.254 0.965 0.069	2816 1154 3818	76.40	-90 -93.40 84.59	9.0 0.68 0.24E 30	9.2 110.1 4.3	1.959 0.00943	28.19	11.25	9.85	3.93	8	10	0.890	1.112	
236.57638	-0.622 0.781 0.054	0.263 0.963 0.061	2743 1169 3725	75.83	-94 -92.90 84.72	9.5 0.70 0.24E 30	9.1 110.6 4.1	1.856 0.00701	27.29	6.72	9.07	2.23	10	12	1.052	1.262	
236.57777	-0.600 0.797 0.049	0.273 0.960 0.054	2670 1185 3626	75.21	-96 -92.42 84.88	10.2 0.72 0.23E 30	9.1 111.0 4.0	1.800 0.00465	25.41	9.98	7.94	3.12	8	12	0.788	1.182	
236.57916	-0.579 0.814 0.044	0.284 0.957 0.047	2597 1201 3537	74.58	-98 -91.94 85.04	10.8 0.73 0.22E 30	9.1 111.3 3.9	1.744 0.00222	28.82	9.06	8.59	2.70	8	12	0.740	1.110	
236.58055	-0.555 0.831 0.038	0.295 0.954 0.039	2523 1217 3440	73.93	-101 -91.46 85.22	11.5 0.75 0.22E 30	9.1 111.7 3.7	1.632 -0.00068	28.73	8.26	8.06	2.32	8	12	0.693	1.040	
236.58194	-0.528 0.848 0.033	0.308 0.951 0.032	2448 1234 3338	73.24	-103 -91.00 85.42	12.4 0.77 0.21E 30	9.0 112.0 3.6	1.565 -0.00371	29.37	10.97	7.83	2.92	12	10	0.971	0.808	
236.58333	-0.502 0.865 0.027	0.320 0.947 0.025	2374 1251 3244	72.56	-106 -90.54 85.62	13.2 0.79 0.20E 30	9.0 112.4 3.4	1.444 -0.00684	21.46	11.50	5.38	2.88	12	8	0.910	0.607	
236.58472	-0.473 0.880 0.021	0.332 0.943 0.018	2300 1268 3139	71.80	-108 -90.10 85.87	14.2 0.81 0.19E 30	9.0 112.7 3.2	1.324 -0.01007	24.19	9.08	5.70	2.14	14	14	0.983	0.983	
236.58611	-0.444 0.895 0.014	0.345 0.938 0.011	2226 1285 3041	71.03	-110 -89.65 86.12	15.3 0.83 0.18E 30	8.9 113.0 3.0	1.200 -0.01320	23.59	10.30	5.29	2.31	12	10	0.784	0.653	

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	PNB	IBWA	IBWB	BWNA	BWNB	PAGE	37
236.58749	-0.413 0.910 0.008	0.358 0.933 0.004	2152 1303 2941	70.22	-112 -89.22 86.40	16.5 0.85 0.18E 30	8.9 113.2 2.8	1.078 -0.01618	21.04	9.86	4.43	2.08	8	6	0.484	0.763		
236.58888	-0.380 0.924 0.001	0.371 0.928 -0.003	2079 1322 2838	69.37	-114 -88.80 86.70	17.9 0.88 0.17E 30	8.9 113.5 2.6	0.948 -0.01908	24.16	9.40	4.74	1.84	8	6	0.447	0.335		
236.59027	-0.347 0.938 -0.006	0.384 0.923 -0.010	2005 1341 2739	68.52	-116 -88.39 87.01	19.3 0.90 0.16E 30	8.8 113.7 2.3	0.788 -0.02054	25.54	8.70	4.76	1.62	8	6	0.414	0.311		
236.59166	-0.309 0.950 -0.014	0.399 0.916 -0.017	1932 1360 2632	67.56	-117 -88.00 87.38	21.1 0.93 0.16E 30	8.8 113.9 2.0	0.629 -0.02152	24.34	9.92	4.22	1.72	8	8	0.378	0.378		
236.61319	0.502 0.848 -0.150	0.740 0.660 -0.119	1003 1656 1198	43.24	-122 -87.30 98.49	99.4 1.71 0.88E 29	7.6 105.4 -3.8	2.062 -0.01564	30.49	112.20	1.86	6.83	80	80	0.805	0.805		
236.61458	0.562 0.812 -0.158	0.768 0.628 -0.125	965 1670 1138	40.81	-126 -88.03 99.62	109.2 1.78 0.86E 29	7.5 103.6 -4.1	2.198 -0.02027	32.70	94.97	1.89	5.48	90	90	0.824	0.824		
236.61597	0.620 0.762 -0.164	0.797 0.586 -0.129	939 1680 1079	38.03	-134 -89.44 100.79	119.7 1.85 0.84E 29	7.5 101.1 -4.2	2.173 -0.02087	89.93	202.50	4.89	11.02	90	90	0.752	0.752		
236.61736	0.677 0.711 -0.171	0.826 0.544 -0.134	914 1690 1030	35.24	-141 -90.85 101.97	130.1 1.92 0.83E 29	7.4 98.7 -4.1	2.001 -0.01765	48.78	77.93	2.54	4.07	90	100	0.692	0.769		
236.61874	0.730 0.655 -0.176	0.854 0.499 -0.137	895 1697 989	32.32	-152 -92.78 103.08	139.9 1.98 0.82E 29	7.4 95.7 -4.0	1.826 -0.01387	57.08	93.28	2.85	4.65	90	90	0.644	0.644		
236.62013	0.778 0.594 -0.181	0.879 0.450 -0.140	883 1702 957	29.27	-165 -95.21 104.14	149.0 2.03 0.81E 29	7.3 92.4 -4.0	1.697 -0.01042	65.57	112.11	3.20	5.48	100	90	0.671	0.604		
236.62152	0.826 0.532 -0.185	0.905 0.401 -0.143	871 1707 933	26.22	-178 -97.65 105.20	158.1 2.09 0.80E 29	7.3 89.2 -4.0	1.582 -0.00749	54.71	109.56	2.57	5.15	100	100	0.632	0.632		
236.62291	0.862 0.462 -0.186	0.925 0.346 -0.143	873 1706 914	23.08	-193 101.81 105.96	163.5 2.12 0.80E 29	7.3 85.3 -4.5	1.667 -0.00578	49.33	94.01	2.29	4.36	100	90	0.611	0.550		
236.62430	0.897 0.392 -0.187	0.944 0.291 -0.144	876 1705 907	19.95	-209 105.97 106.71	168.9 2.15 0.80E 29	7.3 81.4 -5.0	1.752 -0.00422	47.68	114.91	2.19	5.27	90	90	0.533	0.533		
236.62569	0.926 0.320 -0.187	0.960 0.236 -0.143	886 1702 907	16.94	-224 112.12 107.23	171.8 2.16 0.81E 29	7.3 75.5 -5.3	1.769 -0.00270	55.85	108.28	2.57	4.98	90	90	0.524	0.524		
236.64513	0.818 -0.563 -0.107	0.912 -0.401 -0.077	1505 1483 1568	22.87	-245 96.06 100.79	89.9 1.76 0.13E 30	7.5 106.6 -4.2	1.496 -0.00398	*****	*****	*****	*****	38	40	0.423	0.444		
236.64652	0.790 -0.603 -0.099	0.900 -0.428 -0.071	1571 1463 1646	24.56	-234 94.37 100.03	83.6 1.72 0.13E 30	7.5 105.6 -4.2	1.541 -0.00489	*****	*****	*****	*****	34	32	0.407	0.383		
236.64791	0.761 -0.640 -0.091	0.888 -0.453 -0.066	1640 1442 1727	26.12	-222 93.10 99.29	77.9 1.69 0.14E 30	7.6 105.1 -4.0	1.508 -0.00553	*****	*****	*****	*****	46	40	0.591	0.513		
236.64930	0.732 -0.676 -0.083	0.876 -0.478 -0.061	1708 1422 1811	27.68	-211 91.84 98.55	72.2 1.65 0.14E 30	7.6 104.5 -3.8	1.478 -0.00624	16.95	62.10	1.69	6.20	48	36	0.665	0.498		
236.65069	0.701 -0.707 -0.076	0.863 -0.500 -0.056	1780 1402 1892	29.04	-198 91.03 97.88	67.6 1.61 0.14E 30	7.7 104.3 -3.6	1.438 -0.00675	12.78	60.56	1.34	6.37	44	38	0.651	0.562		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THEIA	BW SIGFAC SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB IBWA IBWB	BMNA	BWNB	PAGE
236.65208	0.670 0.850 1.851	0.523 0.523 1382	1851	30.40	-186 90.23 97.21	62.9 1.58 0.15E 30	7.7 104.1 -3.4	1.397 -0.00727	11.48	58.63	1.28	34 40	0.541	0.635	
236.65347	-0.069 0.639 0.766	-0.051 0.838 0.533	1978	31.68	-175 89.57 96.57	58.8 1.55 0.15E 30	7.8 104.0 -3.2	1.352 -0.00770	13.80	45.99	1.61	32 40	0.681	0.544	
236.65486	-0.061 0.610 0.790	-0.046 0.827 0.560	2064	32.87	-163 89.05 95.98	1.55 0.15E 30 0.16E 30	7.8 104.1 -3.1	1.343 -0.00821	15.08	39.46	1.87	18 26	0.472	0.327	
236.65625	-0.054 0.580 0.814	-0.041 0.816 0.577	2152	34.06	-152 88.53 95.38	51.3 1.49 0.17E 30	7.9 104.1 -2.9	1.291 -0.00847	7.00	34.50	0.91	18 22	0.479	0.351	
236.65763	-0.047 0.551 0.805	-0.036 0.805 0.592	2243	35.11	-141 88.19 94.84	48.3 1.46 0.18E 30	7.9 104.2 -2.7	1.231 -0.00852	*****	35.39	*****	18 ***	*****	0.372	
236.65902	-0.041 0.522 0.822	-0.032 0.784 0.607	2327	36.16	-130 87.86 94.20	45.4 1.43 0.19E 30	8.0 104.4 -2.4	1.118 -0.00809	*****	47.86	*****	18 ***	*****	0.396	
236.66041	-0.028 0.493 0.784	-0.027 0.784 0.620	2415	37.16	-119 87.58 93.80	42.7 1.39 0.19E 30	8.0 104.5 -2.1	1.001 -0.00755	*****	23.69	*****	18 ***	*****	0.422	
236.66180	-0.084 0.466 0.774	-0.033 0.774 0.633	2504	38.09	-109 87.37 93.32	40.3 1.39 0.20E 30	8.1 104.7 -1.9	0.923 -0.00714	*****	28.74	*****	18 ***	*****	0.447	
236.66319	-0.022 0.438 0.764	-0.019 0.764 0.645	2591	39.02	-99 87.16 92.85	37.9 1.37 0.20E 30	8.1 105.0 -1.6	0.791 -0.00618	*****	*****	*****	16 18	0.423	0.476	
236.66458	-0.016 0.412 0.754	-0.015 0.754 0.656	2683	39.86	-90 87.03 92.42	35.9 1.35 0.21E 30	8.2 105.2 -1.4	0.703 -0.00554	*****	*****	*****	14 16	0.389	0.446	
236.66597	-0.010 0.385 0.745	-0.011 0.745 0.667	2769	40.70	-81 86.90 92.00	34.0 1.33 0.22E 30	8.2 105.4 -1.1	0.561 -0.00440	*****	*****	*****	16 16	0.471	0.471	
236.66736	-0.005 0.359 0.735	-0.007 0.735 0.677	2853	41.50	-72 86.81 91.60	32.2 1.31 0.22E 30	8.2 105.7 -0.9	0.464 -0.00355	*****	*****	*****	22 14	0.683	0.435	

NORMALIZED BANDWIDTH VS LONGITUDE



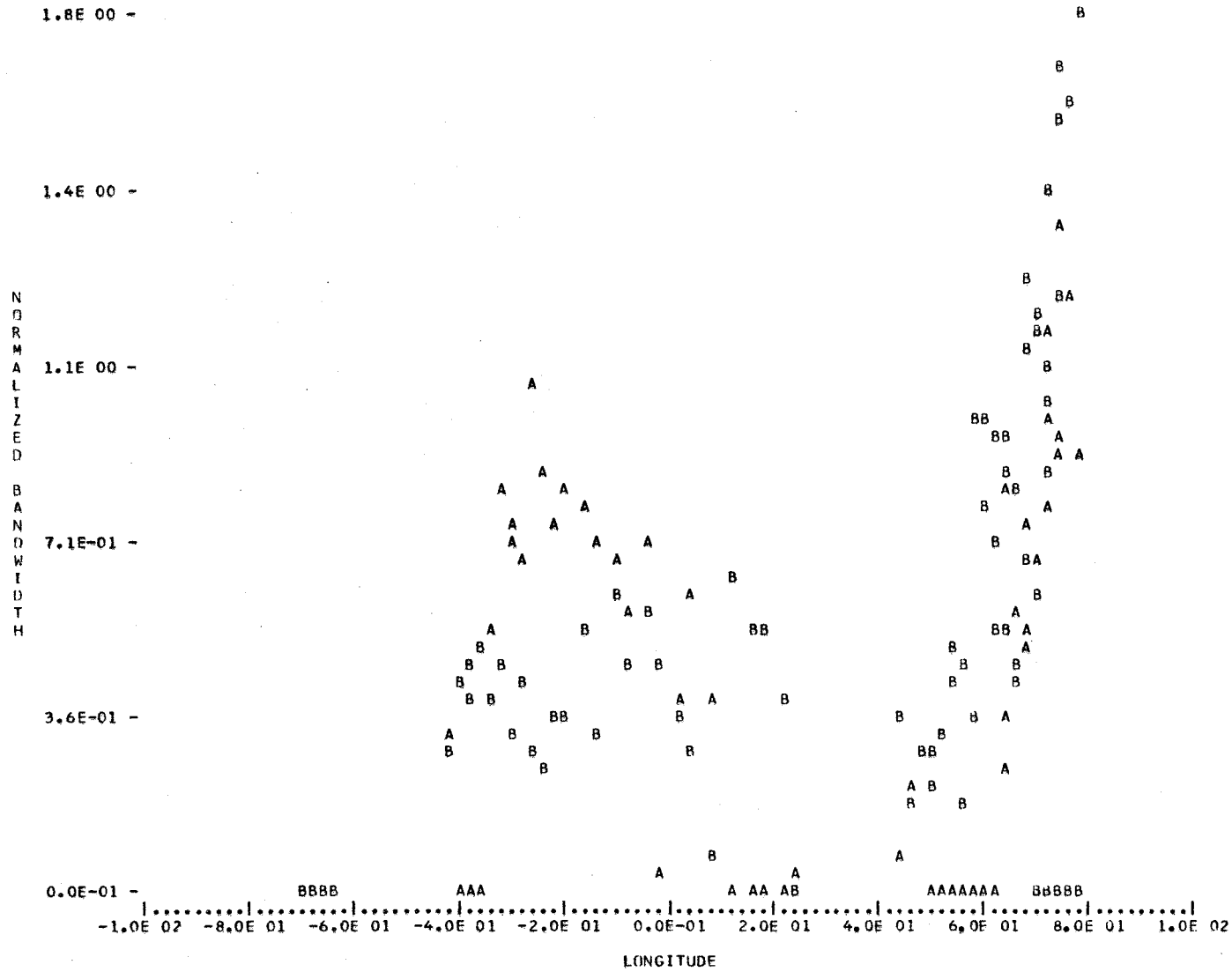


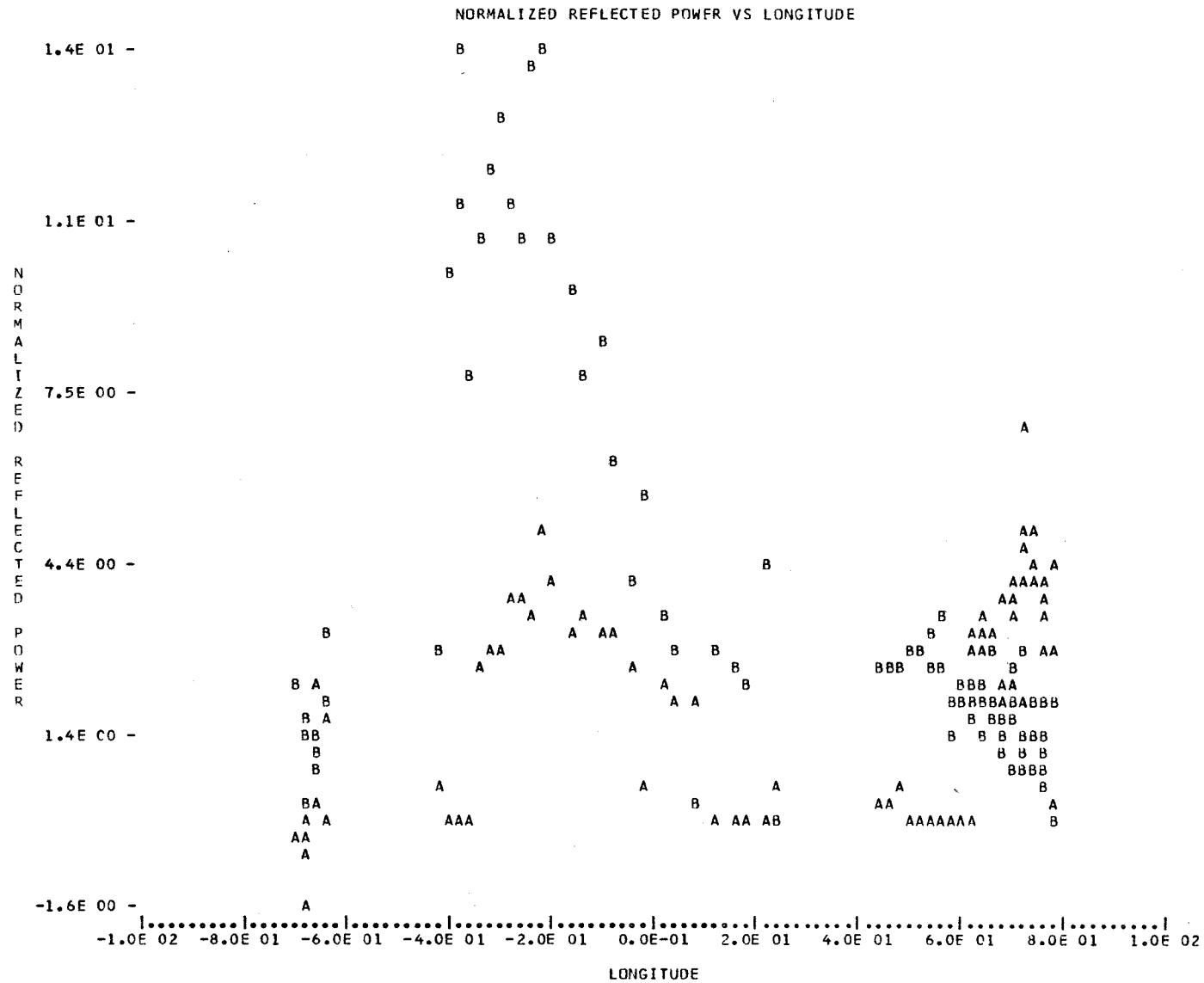
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	RFFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	42
237.52638	-0.586 0.806 0.084	0.322 0.944 0.073	3338 1055 4311	73.92	-93 -93.44 82.84	8.4 0.76 0.30E 30	9.4 111.2 5.8	2.605 -0.00076	5.52	3.62	2.10	1.38	8	12	0.958	1.437		
237.52777	-0.570 0.818 0.080	0.330 0.942 0.068	3269 1067 4228	73.44	-95 -93.06 82.94	8.7 0.77 0.29E 30	9.4 111.5 5.7	2.527 -0.00445	6.74	2.44	2.46	0.89	6	10	0.686	1.143		
237.52916	-0.552 0.830 0.076	0.338 0.939 0.062	3199 1080 4138	72.93	-96 -92.68 83.06	9.2 0.78 0.28E 30	9.4 111.8 5.6	2.443 -0.00848	10.44	7.73	3.66	2.71	***	***	*****	*****		
237.53055	-0.533 0.843 0.072	0.346 0.936 0.057	3129 1093 4050	72.42	-98 -92.30 83.19	9.7 0.79 0.27E 30	9.4 112.1 5.5	2.354 -0.01265	11.43	5.47	3.84	1.84	6	6	0.620	0.620		
237.53194	-0.513 0.855 0.068	0.355 0.933 0.051	3058 1107 3959	71.88	-99 -91.93 83.32	10.2 0.81 0.27E 30	9.4 112.4 5.4	2.259 -0.01713	12.64	6.63	4.02	2.11	6	12	0.589	1.177		
237.53333	-0.492 0.868 0.064	0.365 0.930 0.046	2987 1120 3870	71.32	-100 -91.56 83.47	10.8 0.82 0.26E 30	9.3 112.7 5.2	2.117 -0.02134	7.55	4.70	2.33	1.45	8	12	0.742	1.113		
237.53472	-0.470 0.881 0.060	0.375 0.926 0.040	2915 1134 3782	70.76	-102 -91.19 83.62	11.3 0.83 0.25E 30	9.3 112.9 5.1	2.021 -0.02577	13.06	4.17	3.86	1.23	6	14	0.530	1.235		
237.53611	-0.447 0.892 0.055	0.385 0.922 0.035	2843 1149 3686	70.16	-102 -90.83 83.80	12.0 0.84 0.24E 30	9.3 113.2 5.0	1.907 -0.03068	6.97	6.18	1.97	1.75	6	8	0.498	0.664		
237.53749	-0.424 0.903 0.050	0.394 0.919 0.030	2771 1164 3591	69.55	-103 -90.47 83.97	12.7 0.85 0.23E 30	9.3 113.4 4.8	1.761 -0.03467	11.73	6.62	3.18	1.79	6	6	0.471	0.471		
237.53888	-0.400 0.914 0.045	0.404 0.915 0.024	2699 1179 3498	68.92	-104 -90.11 84.17	13.5 0.87 0.23E 30	9.2 113.7 4.6	1.603 -0.03851	7.30	8.00	1.89	2.07	6	6	0.443	0.443		
237.54027	-0.375 0.925 0.040	0.414 0.910 0.019	2626 1194 3406	68.25	-105 -89.75 84.38	14.4 0.88 0.22E 30	9.2 113.9 4.4	1.449 -0.04219	12.68	11.31	3.14	2.80	8	12	0.556	0.834		
237.54166	-0.350 0.936 0.035	0.424 0.906 0.013	2553 1210 3315	67.59	-106 -89.40 84.59	15.3 0.90 0.22E 30	9.2 114.1 4.3	1.326 -0.04634	12.84	10.17	3.01	2.38	4	8	0.262	0.525		
237.54305	-0.322 0.946 0.029	0.435 0.900 0.007	2479 1227 3219	66.86	-105 -89.05 84.84	16.3 0.92 0.21E 30	9.1 114.3 4.0	1.137 -0.04818	15.81	6.85	3.54	1.53	6	14	0.368	0.858		
237.54444	-0.293 0.955 0.024	0.446 0.895 0.002	2406 1244 3120	66.13	-105 -88.71 85.10	17.4 0.94 0.20E 30	9.1 114.5 3.8	0.980 -0.05034	15.40	9.37	3.26	1.98	14	16	0.804	0.918		
237.54583	-0.263 0.964 0.018	0.458 0.889 -0.004	2332 1261 3024	65.36	-105 -88.37 85.37	18.7 0.96 0.20E 30	9.0 114.7 3.6	0.822 -0.05188	13.99	11.39	2.83	2.30	10	10	0.536	0.536		
237.54722	-0.231 0.972 0.011	0.470 0.882 -0.009	2259 1278 2927	64.55	-105 -88.04 85.67	20.0 0.98 0.19E 30	9.0 114.9 3.4	0.666 -0.05265	17.12	10.92	3.27	2.08	14	14	0.699	0.699		
237.54861	-0.199 0.980 0.005	0.482 0.876 -0.014	2186 1295 2832	63.74	-105 -87.71 85.97	21.4 1.00 0.18E 30	9.0 115.0 3.1	0.506 -0.05108	*****	9.91	*****	1.79	***	20	*****	0.934		
237.54999	-0.162 0.986 -0.002	0.497 0.868 -0.020	2113 1313 2730	62.83	-103 -87.40 86.34	23.2 1.02 0.17E 30	8.9 115.1 2.9	0.362 -0.05033	*****	11.24	*****	1.94	***	18	*****	0.776		
237.55138	-0.125 0.991 -0.009	0.512 0.859 -0.025	2040 1332 2631	61.92	-102 -87.09 86.70	25.0 1.05 0.16E 30	8.9 115.2 2.6	0.221 -0.04670	*****	13.64	*****	2.20	***	24	*****	0.961		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	43
237.55277	-0.087 0.995 -0.016	0.526 0.850 -0.031	1968 1351 2533	60.95	-101 -86.80 87.10	27.0 1.07 0.16E 30	8.8 115.2 2.3	0.098 -0.04233	*****	13.04	*****	2.00	***	26	*****	0.962		
237.55416	-0.048 0.997 -0.023	0.541 0.840 -0.037	1897 1370 2434	59.92	-99 -86.52 87.53	29.3 1.10 0.15E 30	8.7 115.3 1.9	-0.007 -0.03487	*****	8.94	*****	1.30	***	10	*****	0.341		
237.55486	-0.028 0.998 -0.027	0.549 0.835 -0.040	1861 1379 2387	59.41	-98 -86.38 87.75	30.5 1.12 0.15E 30	8.7 115.3 1.8	-0.047 -0.03282	*****	17.77	*****	2.49	***	14	*****	0.440		
237.55624	0.014 0.998 -0.035	0.564 0.824 -0.046	1790 1399 2287	58.30	-96 -86.13 88.23	33.2 1.15 0.15E 30	8.6 115.2 1.4	-0.105 -0.02490	*****	26.41	*****	3.50	***	6	*****	0.181		
237.55763	0.058 0.995 -0.043	0.581 0.813 -0.051	1721 1418 2185	57.13	-93 -85.91 88.75	36.2 1.18 0.14E 30	8.6 115.1 1.0	-0.125 -0.01684	*****	25.77	*****	3.20	***	16	*****	0.442		
237.55902	0.102 0.993 -0.051	0.597 0.801 -0.057	1651 1438 2092	55.95	-90 -85.68 89.27	39.3 1.22 0.13E 30	8.5 115.1 0.6	-0.103 -0.00923	*****	23.21	*****	2.71	***	20	*****	0.509		
237.56041	0.150 0.985 -0.060	0.615 0.786 -0.063	1585 1458 1993	54.58	-87 -85.54 89.91	43.3 1.26 0.13E 30	8.4 114.8 0.1	-0.022 -0.00136	*****	27.55	*****	3.03	***	14	*****	0.323		
237.56180	0.197 0.977 -0.069	0.633 0.771 -0.070	1519 1478 1901	53.21	-83 -85.41 90.54	47.4 1.31 0.12E 30	8.3 114.4 -0.3	0.082 0.00347	*****	29.00	*****	2.98	***	10	*****	0.211		
237.56319	0.247 0.965 -0.078	0.652 0.754 -0.076	1455 1498 1808	51.73	-80 -85.34 91.24	52.1 1.35 0.12E 30	8.3 113.9 -0.7	0.226 0.00643	*****	29.77	*****	2.85	***	14	*****	0.269		
237.56458	0.298 0.948 -0.087	0.673 0.735 -0.082	1394 1518 1713	50.14	-76 -85.34 92.00	57.4 1.40 0.11E 30	8.2 113.2 -1.1	0.405 0.00728	4.98	28.05	0.45	2.53	16	16	0.279	0.279		
237.56597	0.349 0.932 -0.096	0.693 0.716 -0.088	1332 1538 1628	48.55	-72 -85.33 92.77	62.8 1.45 0.11E 30	8.1 112.5 -1.5	0.608 0.00630	2.96	30.42	0.25	2.57	14	12	0.223	0.191		
237.56736	0.403 0.906 -0.105	0.716 0.691 -0.094	1277 1557 1539	46.68	-68 -85.56 93.67	69.7 1.51 0.11E 30	8.0 111.5 -2.1	0.923 0.00355	2.30	31.28	0.18	2.48	6	24	0.086	0.344		
237.57847	0.806 0.560 -0.170	0.899 0.411 -0.137	947 1676 1016	27.84	-75 -93.51 102.21	140.7 2.00 0.85E 29	7.4 95.8 -4.1	1.669 -0.00879	12.56	*****	0.64	*****	6	***	0.043	*****		
237.57986	0.848 0.499 -0.176	0.920 0.365 -0.141	922 1686 980	25.00	-82 -95.65 103.33	150.3 2.06 0.83E 29	7.4 92.7 -4.0	1.540 -0.00648	*****	92.88	*****	4.54	***	60	*****	0.399		
237.58124	0.880 0.429 -0.180	0.936 0.312 -0.143	911 1691 949	21.99	-93 -99.56 104.28	157.4 2.10 0.82E 29	7.3 87.9 -3.9	1.419 -0.00448	*****	49.04	*****	2.37	***	82	*****	0.521		
237.58263	0.912 0.359 -0.184	0.953 0.259 -0.146	900 1696 929	18.98	-105 103.48 105.22	164.6 2.14 0.81E 29	7.3 83.4 -4.0	1.383 -0.00306	*****	53.67	*****	2.52	***	86	*****	0.522		
237.58402	0.937 0.286 -0.186	0.966 0.203 -0.147	895 1697 915	16.04	-118 109.67 105.99	169.6 2.17 0.81E 29	7.3 77.5 -4.5	1.490 -0.00212	*****	61.53	*****	2.84	***	108	*****	0.637		
237.58541	0.955 0.209 -0.187	0.975 0.144 -0.148	898 1696 907	13.18	-131 118.14 106.57	172.4 2.18 0.82E 29	7.3 69.2 -4.9	1.563 -0.00119	43.33	4.93	1.99	0.23	70	10	0.406	0.058		
237.58680	0.973 0.132 -0.188	0.985 0.086 -0.148	901 1695 911	10.32	-146 126.61 107.15	175.2 2.20 0.82E 29	7.3 61.0 -5.2	1.617 -0.00052	41.43	65.94	1.89	3.01	106	52	0.605	0.297		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	45
237.61388	0.491 -0.868 -0.067	0.763 -0.642 -0.060	1862 1379 2061	37.39	-94 87.25 96.32	55.2 1.50 0.15E 30	7.8 101.9 -3.2	1.601 -0.01421	*****	82.94	*****	9.68	***	24	*****	0.435		
237.61527	0.456 -0.887 -0.060	0.750 -0.659 -0.056	1933 1360 2147	38.61	-84 86.87 95.72	51.4 1.46 0.15F 30	7.8 102.1 -3.0	1.550 -0.01454	4.42	24.50	0.55	3.06	16	14	0.311	0.273		
237.66597	-0.366 -0.926 0.095	0.435 -0.898 0.064	4427 877 5148	61.64	83 88.08 84.94	9.6 0.98 0.45E 30	9.1 111.4 4.0	0.387 -0.09571	*****	6.93	*****	3.11	***	***	*****	*****		
237.66736	-0.380 -0.920 0.097	0.429 -0.901 0.066	4486 869 5218	62.00	84 88.22 84.80	9.3 0.98 0.45E 30	9.1 111.6 4.1	0.473 -0.09490	*****	4.75	*****	2.17	***	***	*****	*****		
237.66874	-0.393 -0.914 0.100	0.422 -0.904 0.069	4544 860 5283	62.35	85 88.36 84.67	9.1 0.97 0.46E 30	9.2 111.9 4.2	0.552 -0.09313	3.99	4.50	1.86	2.10	***	***	*****	*****		
237.67013	-0.407 -0.908 0.102	0.415 -0.907 0.072	4602 852 5352	62.70	86 88.50 84.54	8.8 0.96 0.47E 30	9.2 112.1 4.3	0.635 -0.09186	4.97	2.33	2.38	1.12	***	***	*****	*****		
237.67152	-0.419 -0.902 0.104	0.410 -0.909 0.074	4658 844 5417	63.04	87 88.65 84.41	8.6 0.96 0.48E 30	9.2 112.3 4.4	0.714 -0.09044	1.79	3.05	0.87	1.49	***	***	*****	*****		
237.67291	-0.430 -0.897 0.106	0.405 -0.911 0.077	4715 836 5485	63.37	88 88.79 84.29	8.4 0.95 0.49E 30	9.2 112.5 4.5	0.790 -0.08890	1.61	1.76	0.81	0.88	***	***	*****	*****		
237.67430	-0.441 -0.891 0.108	0.401 -0.913 0.079	4770 828 5548	63.70	89 88.93 84.17	8.1 0.95 0.49E 30	9.2 112.7 4.6	0.866 -0.08720	0.21	2.53	0.11	1.29	***	***	*****	*****		
237.67569	-0.452 -0.885 0.110	0.396 -0.915 0.082	4825 821 5611	64.03	90 89.08 84.06	7.9 0.94 0.50E 30	9.3 112.9 4.7	0.941 -0.08537	1.40	2.70	0.72	1.40	***	***	*****	*****		
237.67708	-0.463 -0.879 0.112	0.391 -0.917 0.084	4879 813 5674	64.35	91 89.23 83.94	7.7 0.94 0.51E 30	9.3 113.2 4.8	1.005 -0.08301	1.67	1.83	0.88	0.97	***	***	*****	*****		
237.67847	-0.473 -0.873 0.114	0.386 -0.919 0.086	4932 806 5733	64.66	91 89.38 83.83	7.5 0.94 0.52E 30	9.3 113.4 4.9	1.073 -0.08117	-0.57	3.35	-0.31	1.80	***	***	*****	*****		
237.67986	-0.484 -0.867 0.115	0.381 -0.920 0.089	4985 799 5797	64.97	91 89.52 83.73	7.3 0.93 0.53E 30	9.3 113.6 5.0	1.140 -0.07926	-0.42	0.28	-0.23	0.15	***	***	*****	*****		
237.68124	-0.494 -0.861 0.117	0.377 -0.922 0.091	5038 792 5859	65.28	92 89.68 83.62	7.2 0.93 0.53E 30	9.3 113.8 5.1	1.206 -0.07729	-2.73	0.56	-1.53	0.31	***	***	*****	*****		
237.68263	-0.504 -0.855 0.118	0.372 -0.923 0.094	5089 785 5919	65.58	92 89.83 83.52	7.0 0.92 0.54E 30	9.3 114.0 5.2	1.269 -0.07536	-2.70	2.24	-1.55	1.29	***	***	*****	*****		
237.68402	-0.514 -0.849 0.120	0.368 -0.925 0.096	5141 778 5982	65.88	92 89.98 83.42	6.8 0.92 0.55E 30	9.4 114.2 5.3	1.331 -0.07340	-2.80	2.45	-1.61	1.41	***	***	*****	*****		
237.68541	-0.524 -0.842 0.122	0.362 -0.927 0.098	5191 772 6036	66.17	92 90.13 83.33	6.7 0.92 0.56E 30	9.4 114.4 5.4	1.390 -0.07150	-1.32	2.93	-0.77	1.71	***	***	*****	*****		
237.68680	-0.535 -0.835 0.123	0.356 -0.929 0.101	5242 765 6097	66.46	92 90.28 83.24	6.5 0.91 0.57E 30	9.4 114.6 5.5	1.448 -0.06959	-0.65	4.06	-0.39	2.44	***	***	*****	*****		

NORMALIZED BANDWIDTH VS LONGITUDE



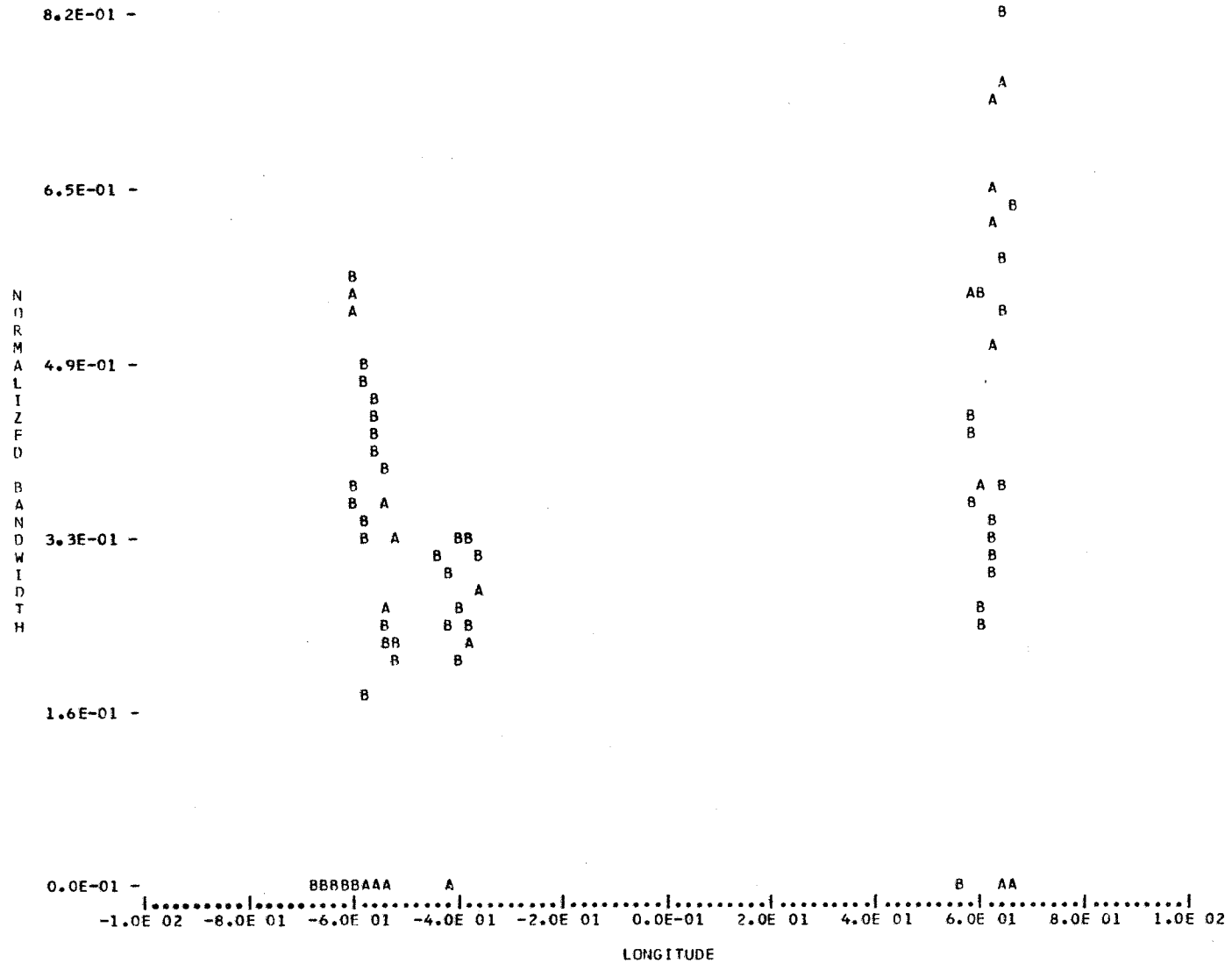


DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	PNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	48
238.48333	-0.448 0.889 0.091	0.419 0.906 0.054	3581 1012 4447	69.23	-97 -91.70 81.73	9.4 0.86 0.33E 30	9.6 113.6 6.8	2.394 -0.05520	*****	7.55	*****	2.73	***	6	*****	0.639		
238.48472	-0.429 0.898 0.088	0.428 0.903 0.050	3514 1023 4362	68.76	-97 -91.41 81.85	9.8 0.87 0.32E 30	9.6 113.8 6.7	2.265 -0.05988	1.94	5.51	0.67	1.92	8	8	0.816	0.816		
238.48611	-0.411 0.908 0.085	0.436 0.899 0.046	3447 1035 4286	68.29	-98 -91.12 81.96	10.2 0.88 0.31E 30	9.6 114.0 6.6	2.133 -0.06428	*****	5.89	*****	1.97	***	6	*****	0.586		
238.48749	-0.392 0.916 0.081	0.443 0.895 0.042	3378 1047 4198	67.79	-97 -90.84 82.09	10.7 0.89 0.30E 30	9.6 114.2 6.5	1.994 -0.06872	4.27	4.14	1.38	1.34	8	4	0.746	0.372		
238.48888	-0.373 0.924 0.078	0.450 0.892 0.038	3309 1060 4111	67.29	-97 -90.55 82.22	11.2 0.90 0.29E 30	9.5 114.4 6.3	1.826 -0.07159	5.87	6.23	1.84	1.96	6	6	0.534	0.534		
238.49027	-0.354 0.932 0.074	0.458 0.888 0.034	3240 1072 4028	66.77	-97 -90.26 82.37	11.8 0.91 0.29E 30	9.5 114.6 6.2	1.681 -0.07537	4.16	3.79	1.26	1.14	6	4	0.509	0.340		
238.49166	-0.333 0.939 0.070	0.466 0.884 0.030	3171 1085 3938	66.23	-97 -89.98 82.52	12.4 0.92 0.28E 30	9.5 114.8 6.1	1.532 -0.07886	2.28	3.15	0.66	0.92	8	4	0.646	0.323		
238.49305	-0.313 0.947 0.066	0.474 0.880 0.026	3101 1098 3855	65.69	-98 -89.69 82.67	13.0 0.93 0.27E 30	9.5 115.0 5.9	1.361 -0.08045	3.79	3.28	1.06	0.92	8	4	0.616	0.309		
238.49444	-0.291 0.954 0.062	0.482 0.876 0.022	3030 1112 3765	65.11	-97 -89.40 82.85	13.7 0.94 0.26E 30	9.4 115.2 5.8	1.207 -0.08308	2.23	2.57	0.61	0.70	10	4	0.730	0.292		
238.49583	-0.268 0.961 0.058	0.491 0.871 0.018	2959 1126 3677	64.53	-96 -89.12 83.03	14.4 0.95 0.25E 30	9.4 115.4 5.6	1.036 -0.08360	0.67	1.83	0.18	0.48	8	8	0.555	0.555		
238.49722	-0.245 0.968 0.054	0.500 0.866 0.014	2888 1140 3591	63.92	-95 -88.84 83.22	15.2 0.97 0.25E 30	9.4 115.5 5.5	0.886 -0.08552	1.94	2.42	0.48	0.60	4	4	0.263	0.263		
238.49861	-0.220 0.974 0.049	0.509 0.861 0.009	2816 1155 3499	63.29	-94 -88.55 83.43	16.1 0.98 0.24E 30	9.4 115.7 5.3	0.717 -0.08481	2.14	1.77	0.51	0.42	6	4	0.374	0.249		
238.50000	-0.195 0.980 0.044	0.518 0.855 0.005	2744 1169 3410	62.65	-93 -88.27 83.64	17.0 1.00 0.24E 30	9.3 115.8 5.1	0.558 -0.08386	2.39	3.68	0.54	0.84	6	6	0.354	0.354		
238.50138	-0.167 0.985 0.039	0.529 0.848 0.001	2672 1185 3318	61.95	-91 -88.00 83.88	18.0 1.01 0.23E 30	9.3 116.0 4.9	0.392 -0.08172	1.82	1.37	0.40	0.30	10	8	0.555	0.444		
238.50277	-0.138 0.990 0.034	0.540 0.841 -0.004	2599 1200 3226	61.26	-89 -87.72 84.12	19.1 1.02 0.22E 30	9.2 116.1 4.7	0.243 -0.07926	0.33	-0.10	0.07	-0.02	8	8	0.419	0.419		
238.50416	-0.109 0.993 0.028	0.551 0.834 -0.008	2526 1216 3130	60.53	-87 -87.45 84.39	20.3 1.04 0.22E 30	9.2 116.2 4.4	0.095 -0.07445	1.64	-0.15	0.33	-0.03	***	***	*****	*****		
238.50555	-0.079 0.996 0.023	0.562 0.827 -0.013	2453 1233 3036	59.76	-85 -87.18 84.68	21.6 1.06 0.21E 30	9.2 116.3 4.2	-0.041 -0.07049	-0.98	-1.45	-0.19	-0.28	***	***	*****	*****		
238.50694	-0.049 0.999 0.017	0.572 0.820 -0.017	2380 1249 2944	59.00	-83 -86.91 84.96	23.0 1.08 0.20E 30	9.1 116.4 3.9	-0.157 -0.06431	0.95	0.63	0.17	0.12	***	***	*****	*****		
238.56493	-0.620 -0.772 -0.126	0.801 -0.588 -0.110	1347 1533 1469	32.44	-79 89.48 100.79	88.7 1.72 0.11E 30	7.5 100.1 -4.2	1.873 -0.01296	33.77	22.11	2.63	1.72	24	28	0.270	0.316		

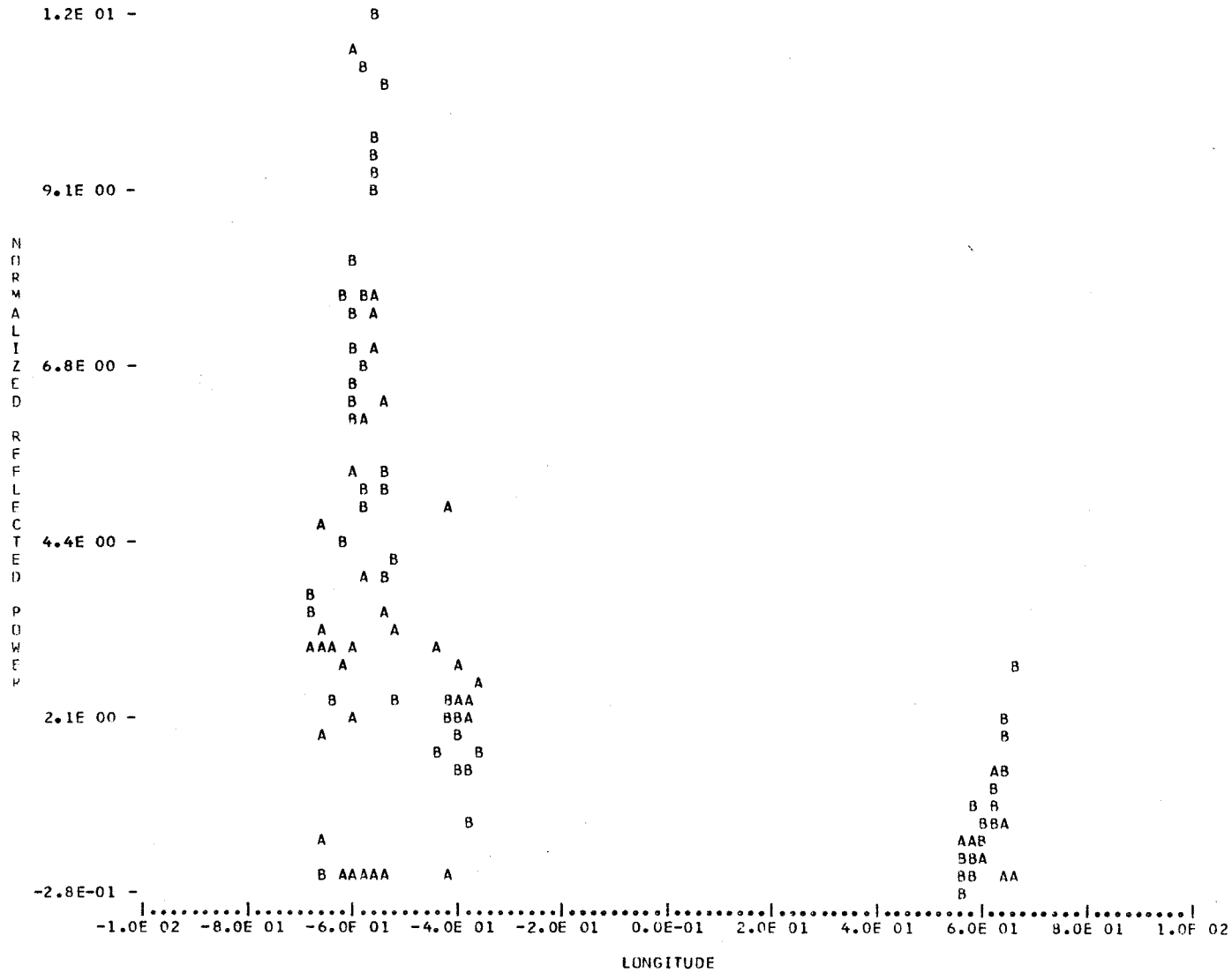
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWMA	BWNB	PAGE	49
238.56562	0.599 -0.791 -0.122	0.791 -0.602 -0.107	1376 1524 1512	33.42	-75 88.88 100.40	85.0 1.69 0.11E 30	7.5 99.8 -4.2	1.927 -0.01444	28.81	16.16	2.32	1.30	20	28	0.235	0.329		
238.56631	0.577 -0.807 -0.118	0.781 -0.615 -0.105	1406 1514 1549	34.33	-71 88.40 100.01	81.5 1.67 0.11E 30	7.5 99.7 -4.2	1.978 -0.01586	23.88	7.74	1.99	0.64	20	20	0.245	0.245		
238.56701	0.556 -0.822 -0.114	0.772 -0.626 -0.102	1437 1504 1590	35.18	-67 88.02 99.64	78.5 1.65 0.12E 30	7.5 99.7 -4.1	1.978 -0.01681	27.19	22.19	2.33	1.91	16	16	0.204	0.204		
238.56770	0.534 -0.836 -0.110	0.763 -0.638 -0.100	1469 1495 1629	36.02	-63 87.65 99.26	75.4 1.63 0.12E 30	7.6 99.6 -4.0	1.981 -0.01788	26.90	16.39	2.35	1.43	20	20	0.265	0.265		
238.56840	0.512 -0.850 -0.106	0.754 -0.650 -0.098	1500 1485 1668	36.87	-59 87.28 98.88	72.3 1.60 0.12E 30	7.6 99.6 -3.9	1.983 -0.01894	30.09	21.78	2.73	1.98	24	24	0.333	0.333		
238.56909	0.491 -0.865 -0.102	0.745 -0.661 -0.095	1531 1475 1716	37.72	-55 86.90 98.51	69.2 1.58 0.13E 30	7.6 99.6 -3.8	1.985 -0.02003	*****	23.38	*****	2.19	***	20	*****	0.289		
238.56979	0.469 -0.877 -0.098	0.735 -0.672 -0.093	1564 1465 1757	38.50	-50 86.60 98.15	66.4 1.56 0.13E 30	7.6 99.6 -3.7	1.983 -0.02103	49.59	23.08	4.81	2.24	16	16	0.241	0.241		
238.57048	0.447 -0.888 -0.094	0.726 -0.682 -0.090	1597 1455 1798	39.23	-46 86.37 97.81	63.9 1.54 0.13E 30	7.7 99.7 -3.6	1.975 -0.02181	31.45	15.12	3.11	1.49	20	20	0.312	0.312		
238.58090	0.152 -0.987 -0.039	0.608 -0.792 -0.056	2122 1311 2479	48.46	13 84.42 93.39	36.4 1.28 0.18E 30	8.1 101.7 -1.9	1.360 -0.01461	15.53	15.06	2.35	2.28	12	8	0.329	0.220		
238.58159	0.134 -0.989 -0.036	0.601 -0.797 -0.054	2159 1302 2524	48.95	16 84.39 93.15	35.2 1.27 0.18E 30	8.1 101.9 -1.8	1.292 -0.01237	20.99	27.46	3.27	4.27	8	8	0.227	0.227		
238.58229	0.117 -0.991 -0.033	0.595 -0.802 -0.052	2195 1293 2569	49.44	19 84.35 92.91	34.1 1.26 0.18E 30	8.1 102.1 -1.6	1.149 -0.00938	21.94	25.46	3.50	4.07	12	8	0.352	0.235		
238.58298	0.100 -0.994 -0.030	0.588 -0.807 -0.050	2231 1284 2619	49.93	23 84.32 92.68	32.9 1.25 0.19E 30	8.1 102.3 -1.5	1.074 -0.00691	*****	31.95	*****	5.24	***	8	*****	0.244		
238.58368	0.083 -0.995 -0.027	0.582 -0.812 -0.048	2267 1276 2662	50.39	26 84.30 92.45	31.8 1.23 0.19E 30	8.2 102.4 -1.4	1.003 -0.00479	*****	32.66	*****	5.47	***	8	*****	0.251		
238.58437	0.067 -0.996 -0.024	0.576 -0.816 -0.046	2304 1267 2708	50.82	29 84.30 92.24	30.9 1.22 0.19E 30	8.2 102.6 -1.3	0.923 -0.00238	37.07	60.95	6.38	10.49	8	12	0.259	0.389		
238.58506	0.052 -0.998 -0.020	0.570 -0.820 -0.044	2341 1259 2758	51.26	32 84.29 92.03	29.9 1.21 0.19E 30	8.2 102.8 -1.1	0.771 -0.00000	44.19	65.08	7.81	11.50	12	12	0.401	0.401		
238.58576	0.036 -0.998 -0.017	0.564 -0.825 -0.042	2377 1250 2799	51.70	34 84.29 91.82	29.0 1.20 0.20E 30	8.2 103.0 -1.0	0.690 0.00208	*****	53.75	*****	9.75	***	12	*****	0.414		
238.58645	0.020 -0.999 -0.014	0.558 -0.829 -0.040	2414 1241 2849	52.13	37 84.29 91.60	28.0 1.19 0.20E 30	8.2 103.2 -0.9	0.608 0.00392	*****	50.92	*****	9.48	***	12	*****	0.428		
238.58715	0.004 -1.000 -0.012	0.552 -0.833 -0.038	2450 1233 2898	52.55	40 84.30 91.40	27.2 1.18 0.20E 30	8.3 103.4 -0.8	0.527 0.00544	37.32	50.63	7.04	9.55	12	12	0.441	0.441		
238.58784	-0.011 -0.999 -0.009	0.546 -0.837 -0.036	2487 1225 2940	52.94	42 84.32 91.22	26.4 1.17 0.21E 30	8.3 103.5 -0.7	0.452 0.00636	38.94	47.24	7.54	9.15	12	12	0.454	0.454		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	PNA	RNB	IBWA	IBW3	BWNA	BWNB	PAGE	50
238.58854	-0.027 -0.999 -0.006	0.539 -0.841 -0.034	2523 1217 2987	53.33	45 84.34 91.03	25.7 1.16 0.21E 30	8.3 103.7 -0.6	0.374 0.00702	*****	24.26	*****	4.82	***	12	*****	0.467		
238.58923	-0.042 -0.999 -0.003	0.533 -0.845 -0.032	2559 1209 3034	53.72	47 84.35 90.84	24.9 1.15 0.21E 30	8.3 103.9 -0.5	0.300 0.00722	*****	33.22	*****	6.77	***	8	*****	0.321		
238.58993	-0.057 -0.998 0.000	0.527 -0.849 -0.030	2596 1201 3078	54.11	49 84.37 90.65	24.2 1.14 0.22E 30	8.3 104.1 -0.4	0.229 0.00689	29.24	51.50	6.12	10.77	12	12	0.496	0.496		
238.59062	-0.072 -0.997 0.002	0.521 -0.853 -0.028	2632 1193 3123	54.49	52 84.40 90.48	23.5 1.14 0.22E 30	8.4 104.3 -0.3	0.163 0.00600	28.68	37.21	6.03	7.82	8	8	0.341	0.341		
238.59131	-0.085 -0.996 0.005	0.516 -0.856 -0.026	2668 1186 3168	54.84	54 84.43 90.31	22.9 1.13 0.23E 30	8.4 104.5 -0.2	0.103 0.00450	18.21	23.97	3.92	5.17	8	4	0.350	0.175		
238.59201	-0.098 -0.994 0.007	0.511 -0.859 -0.024	2705 1178 3210	55.19	56 84.47 90.14	22.3 1.12 0.23E 30	8.4 104.6 -0.1	0.049 0.00250	24.34	36.98	5.38	8.18	12	8	0.539	0.359		
238.59201	-0.098 -0.994 0.007	0.511 -0.859 -0.024	2705 1178 3210	55.19	56 84.47 90.14	22.3 1.12 0.23E 30	8.4 104.6 -0.1	0.049 0.00250	13.96	36.76	3.09	8.13	8	8	0.359	0.359		
238.59270	-0.112 -0.993 0.010	0.506 -0.862 -0.023	2741 1170 3258	55.55	57 84.51 89.97	21.6 1.11 0.23E 30	8.4 104.8 0.0	0.000 0.00000	9.01	33.58	2.04	7.61	12	8	0.555	0.370		
238.59340	-0.125 -0.992 0.013	0.501 -0.865 -0.021	2777 1163 3305	55.90	59 84.54 89.80	21.0 1.10 0.24E 30	8.4 105.0 0.2	-0.084 -0.00595	8.90	26.96	2.07	6.27	12	12	0.571	0.571		
238.59409	-0.138 -0.990 0.015	0.496 -0.868 -0.019	2813 1155 3348	56.24	61 84.58 89.65	20.5 1.10 0.24E 30	8.4 105.1 0.3	-0.118 -0.00960	*****	29.92	*****	7.07	***	***	*****	*****		
238.59479	-0.150 -0.988 0.018	0.491 -0.871 -0.018	2849 1148 3391	56.57	63 84.63 89.50	20.0 1.09 0.25E 30	8.5 105.2 0.4	-0.144 -0.01361	45.78	27.42	10.96	6.56	***	***	*****	*****		
238.59548	-0.162 -0.986 0.020	0.487 -0.873 -0.016	2885 1141 3436	56.89	65 84.67 89.35	19.5 1.09 0.25E 30	8.5 105.4 0.5	-0.163 -0.01777	*****	24.63	*****	5.99	***	***	*****	*****		
238.59618	-0.175 -0.984 0.022	0.482 -0.876 -0.014	2920 1133 3481	57.21	66 84.72 89.20	19.0 1.08 0.25E 30	8.5 105.5 0.6	-0.176 -0.02230	*****	31.12	*****	7.75	***	***	*****	*****		
238.59687	-0.187 -0.982 0.025	0.477 -0.879 -0.013	2956 1126 3526	57.54	68 84.77 89.04	18.5 1.07 0.26E 30	8.5 105.6 0.7	-0.182 -0.02707	11.37	17.25	2.90	4.40	***	***	*****	*****		
238.60520	-0.318 -0.947 0.050	0.423 -0.906 0.007	3375 1048 4039	60.94	82 85.48 87.51	13.9 1.00 0.31E 30	8.7 107.3 1.9	0.162 -0.07063	9.40	7.40	2.98	2.34	***	***	*****	*****		
238.60590	-0.328 -0.943 0.052	0.419 -0.908 0.009	3409 1041 4078	61.20	83 85.55 87.40	13.6 1.00 0.31E 30	8.8 107.4 2.0	0.215 -0.07268	1.20	*****	0.38	*****	***	***	*****	*****		
238.60659	-0.337 -0.940 0.053	0.416 -0.909 0.011	3443 1035 4122	61.46	83 85.62 87.29	13.4 1.00 0.31E 30	8.8 107.5 2.1	0.270 -0.07442	5.37	*****	1.73	*****	***	***	*****	*****		
238.60729	-0.346 -0.937 0.055	0.412 -0.911 0.012	3477 1029 4163	61.71	84 85.68 87.18	13.1 0.99 0.32E 30	8.8 107.7 2.2	0.322 -0.07512	9.14	*****	3.01	*****	***	***	*****	*****		
238.60798	-0.355 -0.933 0.057	0.408 -0.913 0.014	3511 1023 4202	61.96	85 85.75 87.08	12.8 0.99 0.32E 30	8.8 107.8 2.3	0.380 -0.07630	9.31	*****	3.10	*****	***	***	*****	*****		

NORMALIZED BANDWIDTH VS LONGITUDE



NORMALIZED REFLECTED POWER VS LONGITUDE



DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	HWNA	BWNB	PAGE	54
239.46770	0.149 0.988 0.019	0.669 0.743 -0.024	2454 1232 2903	52.83	-43 -85.61 84.52	26.8 1.18 0.21E 30	9.2 118.0 4.3	-0.977 -0.04174	5.88	2.83	1.00	0.48	8	8	0.298	0.298		
239.46840	0.164 0.986 0.016	0.674 C.738 -0.026	2417 1240 2859	52.43	-41 -85.50 84.68	27.6 1.19 0.20E 30	9.2 118.0 4.2	-0.995 -0.03893	2.45	3.64	0.41	0.60	16	12	0.579	0.435		
239.46909	0.179 0.983 0.013	0.680 C.733 -0.028	2381 1248 2812	52.01	-38 -85.40 84.85	28.5 1.20 0.20E 30	9.1 118.0 4.0	-0.987 -0.03523	6.65	6.94	1.09	1.14	16	16	0.561	0.561		
239.46979	0.196 0.980 0.010	0.686 0.727 -0.030	2344 1257 2766	51.56	-35 -85.30 85.03	29.5 1.21 0.19E 30	9.1 118.0 3.9	-1.001 -0.03244	2.22	5.39	0.35	0.86	12	12	0.407	0.407		
239.47048	0.212 0.976 0.006	0.692 0.721 -0.032	2308 1266 2719	51.12	-32 -85.20 85.21	30.4 1.22 0.19E 30	9.1 118.0 3.7	-0.984 -0.02900	4.77	4.94	0.74	0.77	12	12	0.394	0.394		
239.47118	0.229 0.972 0.004	0.698 0.716 -0.034	2272 1274 2671	50.68	-29 -85.10 85.39	31.4 1.23 0.19E 30	9.0 118.0 3.6	-0.988 -0.02653	5.74	7.84	0.88	1.20	12	12	0.382	0.382		
239.47187	0.246 0.969 0.001	0.704 0.710 -0.036	2235 1283 2628	50.23	-26 -85.01 85.57	32.4 1.24 0.18E 30	9.0 117.9 3.5	-0.995 -0.02417	3.09	3.44	0.46	0.51	12	12	0.370	0.370		
239.47256	0.262 0.964 -0.003	0.710 0.704 -0.038	2199 1292 2580	49.76	-23 -84.92 85.77	33.5 1.26 0.18E 30	9.0 117.9 3.3	-0.966 -0.02117	5.50	2.96	0.79	0.43	***	***	*****	*****		
239.47326	0.279 0.959 -0.006	0.716 C.698 -0.040	2162 1301 2532	49.26	-19 -84.84 85.99	34.7 1.27 0.18E 30	9.0 117.9 3.1	-0.932 -0.01833	6.00	7.33	0.84	1.03	***	***	*****	*****		
239.47395	0.296 0.954 -0.009	0.721 0.692 -0.043	2126 1310 2486	48.75	-16 -84.75 86.20	36.0 1.28 0.17E 30	8.9 117.8 3.0	-0.930 -0.01625	7.21	3.64	1.00	0.50	***	***	*****	*****		
239.47465	0.314 0.949 -0.013	0.727 0.685 -0.045	2090 1319 2443	48.25	-13 -84.67 86.41	37.2 1.29 0.17E 30	8.9 117.8 2.8	-0.887 -0.01386	4.78	6.51	0.64	0.88	***	***	*****	*****		
239.48020	0.457 0.887 -0.042	0.777 0.626 -0.063	1805 1395 2073	43.68	16 -84.24 88.46	49.9 1.42 0.15E 30	8.6 117.0 1.2	-0.440 -0.00182	2.24	2.25	0.24	0.24	***	***	*****	*****		
239.48090	0.476 0.876 -0.046	0.784 0.617 -0.065	1770 1405 2025	43.03	20 -84.22 88.76	51.9 1.44 0.14E 30	8.6 116.8 1.0	-0.372 -0.00115	0.19	6.56	0.02	0.69	***	***	*****	*****		
239.48159	0.495 0.866 -0.050	0.791 0.608 -0.067	1736 1414 1983	42.38	24 -84.21 89.07	53.9 1.45 0.14E 30	8.5 116.7 0.7	-0.262 -0.00059	3.37	4.49	0.35	0.46	***	***	*****	*****		
239.48229	0.514 0.855 -0.054	0.798 0.599 -0.070	1701 1424 1938	41.73	28 -84.19 89.37	55.9 1.47 0.14E 30	8.5 116.5 0.5	-0.189 -0.00027	2.64	5.88	0.26	0.59	***	***	*****	*****		
239.48298	0.533 0.843 -0.058	0.805 0.590 -0.072	1667 1434 1893	41.03	33 -84.21 89.70	58.2 1.49 0.14E 30	8.4 116.3 0.2	-0.076 -0.00005	3.65	9.41	0.36	0.92	***	***	*****	*****		
239.48368	0.552 0.829 -0.063	0.812 0.579 -0.075	1634 1444 1847	40.28	37 -84.26 90.06	60.7 1.51 0.13E 30	8.4 116.0 0.0	0.000 0.00000	5.05	9.46	0.48	0.89	***	***	*****	*****		
239.48437	0.572 0.815 -0.067	0.819 0.568 -0.078	1601 1454 1803	39.53	42 -84.31 90.42	63.3 1.53 0.13E 30	8.4 115.6 -0.2	0.078 -0.00006	4.54	8.62	0.41	0.79	***	***	*****	*****		
239.48506	0.591 0.802 -0.071	0.826 0.557 -0.080	1568 1463 1764	38.78	46 -84.36 90.78	65.8 1.55 0.13E 30	8.3 115.3 -0.4	0.156 -0.00022	5.15	11.33	0.46	1.01	***	***	*****	*****		

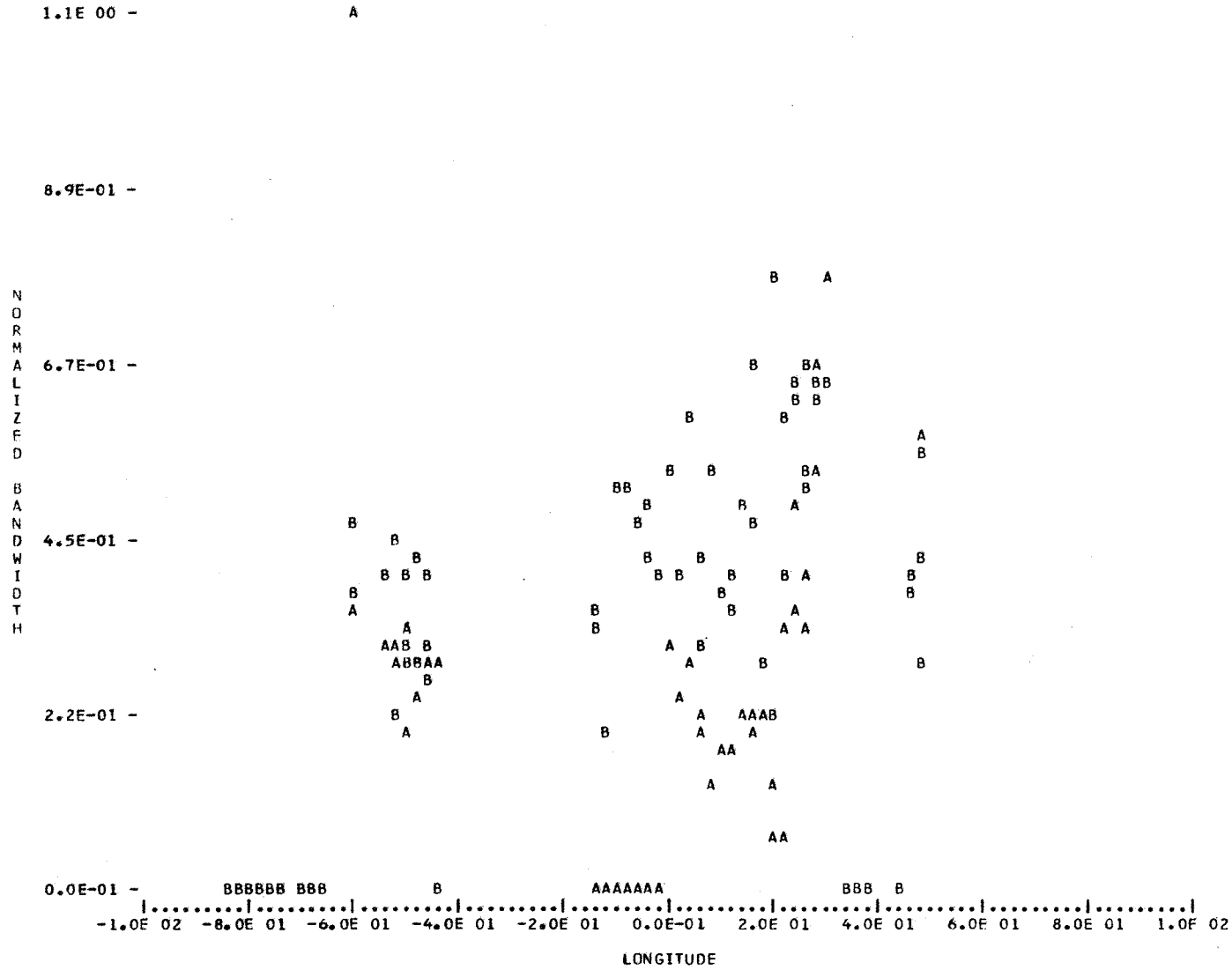
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	RFFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	55
239.48854	0.689 0.716 -0.093	0.864 0.493 -0.094	1410 1512 1554	34.60	67 -85.01 92.79	80.9 1.66 0.11E 30	8.1 112.8 -1.6	0.633 -0.00217	*****	45.25	*****	3.51	64	52	0.792	0.643		
239.48923	0.709 0.697 -0.098	0.872 0.479 -0.097	1379 1522 1515	33.73	71 -85.17 93.21	84.1 1.69 0.11E 30	8.1 112.3 -1.8	0.711 -0.00255	*****	65.86	*****	4.93	56	52	0.665	0.619		
239.48993	0.728 0.677 -0.102	0.880 0.464 -0.099	1350 1532 1478	32.78	75 -85.43 93.67	87.7 1.71 0.11E 30	8.0 111.6 -2.1	0.827 -0.00311	*****	50.94	*****	3.74	48	56	0.548	0.639		
239.49062	0.746 0.654 -0.107	0.887 0.448 -0.102	1322 1541 1438	31.77	79 -85.78 94.16	91.6 1.74 0.11E 30	8.0 110.9 -2.3	0.901 -0.00347	44.68	47.30	3.17	3.35	36	48	0.393	0.524		
239.49131	0.764 0.631 -0.111	0.894 0.432 -0.105	1294 1551 1399	30.75	83 -86.13 94.64	95.5 1.76 0.10E 30	7.9 110.1 -2.6	1.013 -0.00394	38.44	43.75	2.68	3.05	32	52	0.335	0.544		
239.49131	0.764 0.631 -0.111	0.894 0.432 -0.105	1294 1551 1399	30.75	83 -86.13 94.64	95.5 1.76 0.10E 30	7.9 110.1 -2.6	1.013 -0.00394	48.79	49.87	3.40	3.47	52	64	0.544	0.670		
239.49201	0.782 0.609 -0.115	0.902 0.416 -0.108	1266 1560 1364	29.73	86 -86.49 95.13	99.4 1.79 0.10E 30	7.9 109.3 -2.8	1.083 -0.00420	60.31	60.62	4.06	4.08	48	64	0.483	0.644		
239.49270	0.800 0.586 -0.120	0.909 0.400 -0.111	1238 1569 1330	28.72	90 -86.84 95.62	103.3 1.82 0.10E 30	7.9 108.5 -3.0	1.151 -0.00439	60.98	56.65	3.96	3.68	36	64	0.348	0.620		
239.49340	0.817 0.561 -0.124	0.916 0.382 -0.113	1212 1578 1296	27.63	92 -87.36 96.13	107.4 1.84 0.99E 29	7.8 107.5 -3.1	1.178 -0.00439	56.22	63.49	3.59	4.06	36	64	0.335	0.596		
239.49409	0.833 0.534 -0.128	0.923 0.363 -0.116	1188 1587 1262	26.46	94 -88.06 96.67	111.8 1.87 0.98E 29	7.8 106.3 -3.3	1.241 -0.00446	62.52	50.96	3.87	3.15	8	44	0.072	0.394		
239.49479	0.849 0.506 -0.133	0.930 0.343 -0.119	1164 1596 1229	25.29	96 -88.75 97.20	116.2 1.90 0.97E 29	7.7 105.1 -3.4	1.263 -0.00433	63.43	53.83	3.85	3.27	16	92	0.138	0.792		
239.49548	0.864 0.478 -0.137	0.937 0.324 -0.122	1140 1604 1196	24.12	98 -89.45 97.74	120.7 1.93 0.96E 29	7.7 103.9 -3.6	1.320 -0.00425	75.96	52.41	4.46	3.08	8	28	0.066	0.232		
239.49618	0.880 0.451 -0.141	0.944 0.305 -0.125	1116 1613 1169	22.95	100 -90.14 98.28	125.1 1.96 0.95E 29	7.6 102.7 -3.7	1.339 -0.00401	74.47	58.84	4.29	3.39	28	36	0.223	0.288		
239.49687	0.894 0.421 -0.145	0.950 0.283 -0.127	1094 1621 1141	21.71	100 -91.19 98.82	129.5 1.98 0.94E 29	7.6 101.2 -3.9	1.391 -0.00383	74.89	60.46	4.21	3.40	28	88	0.216	0.680		
239.49756	0.906 0.389 -0.149	0.955 0.260 -0.130	1075 1628 1114	20.40	100 -92.60 99.38	133.9 2.00 0.93E 29	7.5 99.3 -4.0	1.406 -0.00350	65.55	57.19	3.64	3.18	28	64	0.209	0.478		
239.49826	0.918 0.356 -0.152	0.961 0.237 -0.132	1057 1635 1086	19.08	100 -94.01 99.93	138.3 2.02 0.91E 29	7.5 97.4 -4.2	1.453 -0.00322	79.47	58.63	4.32	3.19	32	68	0.232	0.491		
239.49895	0.929 0.324 -0.156	0.966 0.215 -0.135	1038 1642 1061	17.77	99 -95.42 100.48	142.8 2.05 0.90E 29	7.5 95.5 -4.2	1.431 -0.00278	77.25	82.58	4.08	4.36	52	56	0.364	0.393		
239.49965	0.941 0.292 -0.160	0.971 0.192 -0.138	1019 1649 1042	16.46	99 -96.82 101.03	147.2 2.07 0.89E 29	7.5 93.5 -4.1	1.375 -0.00230	69.65	63.62	3.59	3.28	28	52	0.190	0.353		
239.50034	0.950 0.258 -0.163	0.975 0.167 -0.140	1002 1655 1020	15.11	97 -99.31 101.56	151.2 2.09 0.88E 29	7.4 90.6 -4.1	1.355 -0.00191	62.30	38.55	3.19	1.97	28	56	0.185	0.370		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	PNB	IBWA	IBWB	BWNA	BWNB	PAGE	56
239.50104	0.957 0.222 -0.166	0.978 0.141 -0.142	989 1660 1000	13.74	93 102.86 102.05	154.8 2.11 0.87E 29	7.4 86.6 -4.1	1.334 -0.00153	64.25	49.72	3.22	2.50	20	84	0.130	0.543		
239.50173	0.964 0.187 -0.169	0.980 0.114 -0.144	976 1666 986	12.36	90 106.42 102.55	158.4 2.13 0.86E 29	7.4 82.6 -4.0	1.283 -0.00115	51.64	41.62	2.54	2.05	32	48	0.202	0.303		
239.50243	0.970 0.151 -0.172	0.983 0.088 -0.147	963 1670 969	10.99	87 109.97 103.05	162.0 2.14 0.85E 29	7.4 78.6 -4.0	1.266 -0.00084	52.07	35.49	2.53	1.72	36	68	0.222	0.420		
239.50312	0.977 0.115 -0.175	0.986 0.062 -0.149	950 1675 958	9.62	83 113.53 103.55	165.6 2.16 0.84E 29	7.4 74.6 -4.0	1.251 -0.00059	45.18	37.53	2.15	1.79	48	100	0.289	0.604		
239.50381	0.980 0.078 -0.178	0.987 0.035 -0.151	940 1679 946	8.53	79 -86.02 103.98	168.2 2.17 0.84E 29	7.3 101.7 -4.0	1.246 -0.00049	42.89	32.25	2.05	1.54	40	68	0.238	0.405		
239.50451	0.979 0.039 -0.180	0.986 0.006 -0.152	933 1682 932	7.73	73 -27.44 104.34	169.9 2.18 0.83E 29	7.3 160.0 -3.9	1.167 0.00032	53.04	37.86	2.51	1.79	52	92	0.306	0.542		
239.50520	0.979 0.000 -0.181	0.985 -0.023 -0.153	927 1685 924	6.93	68 31.14 104.70	171.7 2.19 0.83E 29	7.3 38.2 -3.9	1.181 0.00008	*****	63.69	*****	2.98	***	68	*****	0.396		
239.50590	0.979 -0.039 -0.183	0.984 -0.052 -0.155	920 1687 918	6.14	62 89.73 105.06	173.4 2.20 0.83E 29	7.3 96.5 -3.9	1.202 -0.00026	*****	53.01	*****	2.46	***	72	*****	0.416		
239.50659	0.978 -0.078 -0.185	0.983 -0.081 -0.156	913 1690 913	5.34	56 148.31 105.42	175.1 2.21 0.82E 29	7.3 155.3 -4.2	1.270 0.00014	*****	30.13	*****	1.38	***	88	*****	0.502		
239.50729	0.974 -0.116 -0.186	0.981 -0.109 -0.157	910 1691 909	5.45	50 171.82 105.68	175.7 2.21 0.82E 29	7.3 178.9 -4.3	1.295 0.00023	*****	33.96	*****	1.56	***	84	*****	0.478		
239.50798	0.967 -0.154 -0.187	0.976 -0.137 -0.158	910 1691 908	6.48	44 160.28 105.83	174.9 2.20 0.82E 29	7.3 167.4 -4.4	1.321 0.00030	*****	33.40	*****	1.54	***	88	*****	0.503		
239.50868	0.959 -0.192 -0.187	0.971 -0.165 -0.158	911 1691 908	7.51	38 148.73 105.98	174.2 2.20 0.82E 29	7.3 155.9 -4.5	1.352 0.00031	*****	13.73	*****	0.63	***	88	*****	0.506		
239.50937	0.951 -0.229 -0.187	0.966 -0.194 -0.158	911 1691 910	8.54	32 137.18 106.13	173.5 2.20 0.82E 29	7.3 144.4 -4.6	1.389 0.00021	*****	25.23	*****	1.16	***	36	*****	0.208		
239.51006	0.944 -0.267 -0.188	0.961 -0.222 -0.159	911 1691 918	9.57	26 125.64 106.28	172.8 2.19 0.82E 29	7.3 132.9 -4.7	1.434 -0.00003	*****	*****	*****	*****	***	56	*****	0.324		
239.51076	0.933 -0.304 -0.187	0.955 -0.249 -0.159	915 1690 924	10.82	20 118.21 106.32	170.9 2.18 0.82E 29	7.3 125.5 -4.7	1.450 -0.00029	*****	*****	*****	*****	***	60	*****	0.351		
239.52604	0.462 -0.874 -0.129	0.712 -0.690 -0.123	1305 1547 1481	38.91	0 86.30 99.96	81.4 1.64 0.11E 30	7.5 97.6 -4.2	2.348 -0.02778	*****	*****	*****	*****	24	***	0.295	*****		
239.52673	0.437 -0.888 -0.125	0.701 -0.702 -0.121	1333 1538 1522	39.86	2 85.91 99.57	77.7 1.62 0.11E 30	7.5 97.6 -4.1	2.376 -0.03000	*****	*****	*****	*****	24	24	0.309	0.309		
239.52743	0.412 -0.902 -0.121	0.690 -0.714 -0.119	1361 1529 1565	40.82	5 85.52 99.18	74.1 1.59 0.11E 30	7.6 97.6 -4.0	2.407 -0.03244	18.54	12.50	1.55	1.05	20	20	0.270	0.270		
239.52812	0.387 -0.914 -0.117	0.679 -0.725 -0.117	1391 1519 1608	41.71	8 85.20 98.80	70.9 1.57 0.11E 30	7.6 97.6 -3.9	2.435 -0.03481	17.00	11.87	1.47	1.03	20	28	0.282	0.395		

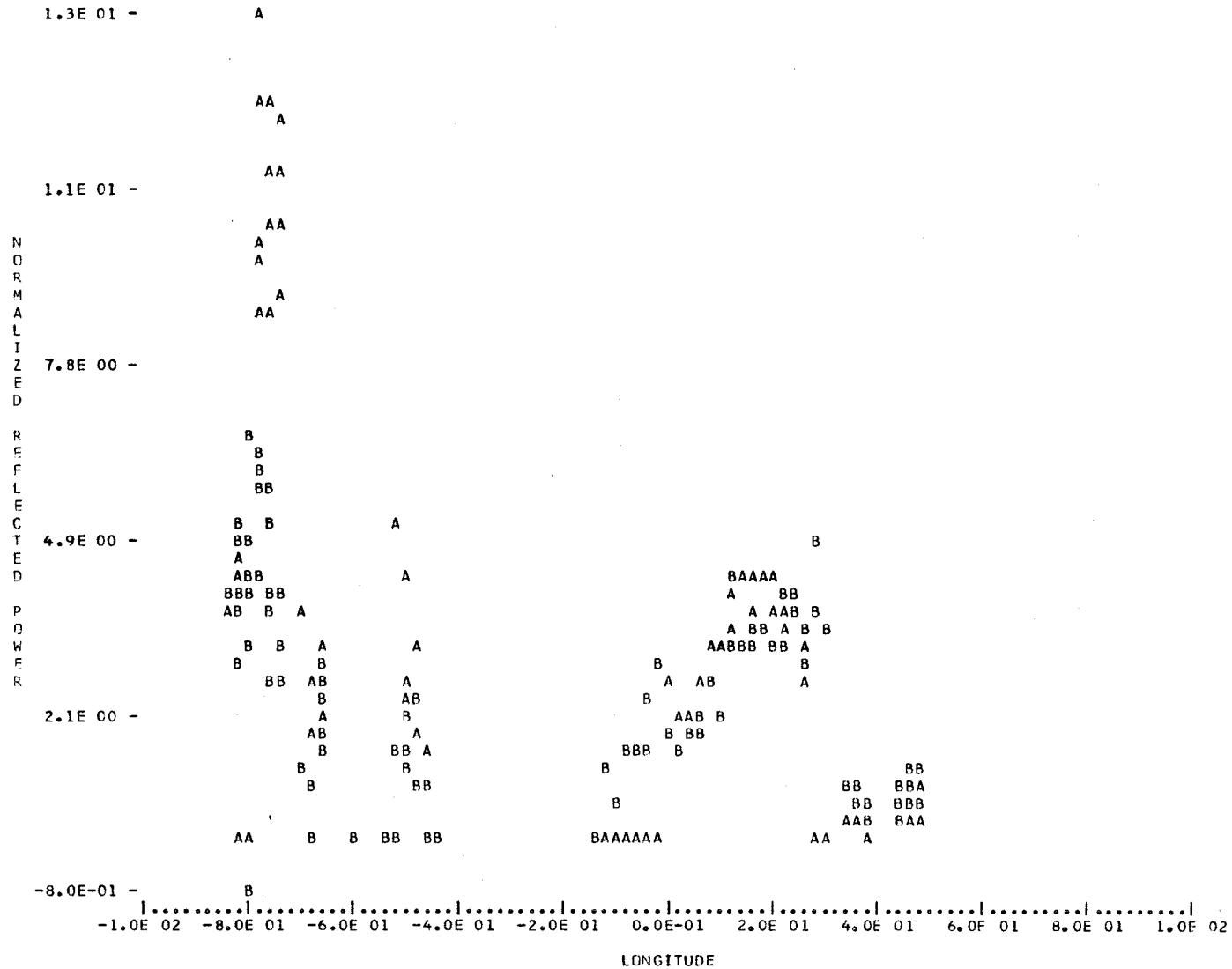
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	PNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	57
239.52881	0.362 -0.923 -0.113	0.668 -0.734 -0.114	1422 1509 1649	42.53	12 84.96 98.44	68.0 1.54 0.12E 30	7.6 97.7 -3.8	2.453 -0.03680	20.50	9.40	1.84	0.85	20	20	0.294	0.294		
239.52951	0.338 -0.933 -0.109	0.658 -0.744 -0.112	1453 1499 1692	43.35	15 84.72 98.08	65.1 1.51 0.12E 30	7.7 97.8 -3.7	2.471 -0.03883	35.47	26.15	3.27	2.41	16	28	0.246	0.430		
239.53020	0.314 -0.942 -0.105	0.648 -0.754 -0.110	1484 1489 1735	44.17	18 84.48 97.71	62.2 1.49 0.12E 30	7.7 97.9 -3.6	2.490 -0.04085	28.49	22.97	2.72	2.19	20	20	0.322	0.322		
239.53090	0.289 -0.951 -0.101	0.637 -0.763 -0.107	1515 1479 1781	44.99	22 84.24 97.35	59.3 1.46 0.13E 30	7.7 98.0 -3.5	2.509 -0.04282	24.26	11.68	2.41	1.16	20	24	0.338	0.405		
239.53159	0.265 -0.959 -0.097	0.627 -0.772 -0.105	1548 1469 1828	45.75	25 84.04 97.01	56.8 1.44 0.13E 30	7.7 98.1 -3.4	2.521 -0.04441	42.26	14.60	4.34	1.50	12	16	0.211	0.282		
239.53229	0.242 -0.964 -0.093	0.618 -0.779 -0.103	1581 1459 1870	46.46	28 83.90 96.68	54.5 1.42 0.13E 30	7.8 98.3 -3.3	2.516 -0.04500	48.87	14.81	5.12	1.55	16	24	0.293	0.440		
239.53298	0.219 -0.970 -0.089	0.608 -0.787 -0.100	1614 1449 1915	47.17	32 83.76 96.35	52.3 1.40 0.14E 30	7.8 98.4 -3.2	2.517 -0.04578	*****	*****	*****	*****	16	12	0.306	0.229		
239.53368	0.197 -0.976 -0.085	0.599 -0.795 -0.098	1647 1440 1962	47.87	35 83.62 96.03	50.1 1.38 0.14E 30	7.8 98.6 -3.1	2.503 -0.04533	*****	*****	*****	*****	16	20	0.319	0.399		
239.54062	-0.015 -0.998 -0.047	0.513 -0.855 -0.076	1996 1343 2433	53.85	63 82.95 93.21	33.5 1.21 0.16E 30	8.1 100.4 -1.8	1.516 0.01377	*****	*****	*****	*****	12	16	0.358	0.477		
239.54131	-0.035 -0.998 -0.044	0.504 -0.860 -0.074	2031 1334 2481	54.38	65 82.92 92.96	32.2 1.20 0.17E 30	8.1 100.6 -1.7	1.378 0.02380	*****	*****	*****	*****	36	12	1.118	0.372		
239.55034	-0.248 -0.968 -0.003	0.419 -0.906 -0.049	2504 1221 3096	60.06	87 83.20 90.28	20.7 1.05 0.21E 30	8.4 103.2 -0.2	-0.002 0.01292	7.96	7.23	1.71	1.55	***	***	*****	*****		
239.55104	-0.262 -0.964 0.000	0.414 -0.909 -0.047	2540 1213 3141	60.44	88 83.24 90.11	20.1 1.04 0.21E 30	8.4 103.4 -0.1	-0.007 0.00624	8.99	7.89	1.99	1.74	***	***	*****	*****		
239.55173	-0.276 -0.961 0.003	0.408 -0.912 -0.045	2577 1205 3191	60.82	89 83.29 89.93	19.4 1.03 0.22E 30	8.4 103.6 0.1	0.012 -0.00597	13.64	11.45	3.09	2.60	***	***	*****	*****		
239.55243	-0.290 -0.957 0.005	0.402 -0.914 -0.043	2613 1197 3238	61.18	90 83.34 89.77	18.8 1.03 0.22E 30	8.4 103.8 0.2	0.033 -0.01134	13.32	10.00	3.07	2.30	***	***	*****	*****		
239.55312	-0.303 -0.952 0.008	0.396 -0.917 -0.041	2649 1189 3279	61.52	91 83.40 89.61	18.3 1.02 0.23E 30	8.5 103.9 0.3	0.063 -0.01626	12.59	12.43	2.95	2.91	***	***	*****	*****		
239.55659	-0.368 -0.929 0.021	0.368 -0.929 -0.033	2830 1151 3510	63.19	94 83.71 88.86	15.9 0.98 0.25E 30	8.6 104.7 0.9	0.330 -0.03453	9.61	3.68	2.51	0.96	***	***	*****	*****		
239.55729	-0.380 -0.924 0.023	0.363 -0.931 -0.031	2866 1144 3555	63.50	95 83.77 88.72	15.4 0.97 0.25E 30	8.6 104.8 1.0	0.390 -0.03566	6.33	0.52	1.70	0.14	***	***	*****	*****		
239.55798	-0.392 -0.919 0.025	0.358 -0.933 -0.029	2902 1137 3601	63.82	96 83.84 88.58	15.0 0.97 0.25E 30	8.6 105.0 1.1	0.448 -0.03598	13.60	4.77	3.70	1.30	***	***	*****	*****		
239.56944	-0.550 -0.833 0.059	0.288 -0.958 -0.001	3477 1029 4315	68.33	99 85.15 86.66	9.9 0.88 0.32E 30	8.9 107.4 2.6	1.312 -0.01956	24.57	7.18	8.99	2.63	***	***	*****	*****		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	58
239.57083	-0.567 -0.821 0.062	0.279 -0.960 0.002	3544 1018 4397	68.79	98 85.32 86.48	9.5 0.87 0.33E 30	8.9 107.7 2.7	1.357 -0.01696	28.79	6.67	10.93	2.53	***	***	*****	*****		
239.57222	-0.584 -0.809 0.065	0.270 -0.963 0.005	3611 1007 4480	69.26	98 85.50 86.29	9.1 0.86 0.34E 30	8.9 108.0 2.9	1.449 -0.01506	25.19	8.35	9.92	3.29	***	***	*****	*****		
239.57361	-0.599 -0.798 0.069	0.263 -0.965 0.009	3677 996 4562	69.71	97 85.68 86.12	8.7 0.86 0.34E 30	8.9 108.3 3.0	1.489 -0.01284	28.97	9.73	11.70	3.93	***	***	*****	*****		
239.57499	-0.613 -0.787 0.072	0.256 -0.966 0.012	3742 985 4642	70.15	97 85.87 85.95	8.3 0.85 0.35E 30	9.0 108.6 3.2	1.575 -0.01128	26.22	9.26	10.85	3.83	***	***	*****	*****		
239.57638	-0.627 -0.776 0.075	0.249 -0.968 0.015	3808 974 4724	70.59	96 86.05 85.78	8.0 0.84 0.36E 30	9.0 108.9 3.3	1.610 -0.00940	20.01	9.45	8.58	4.05	***	***	*****	*****		
239.57777	-0.639 -0.765 0.078	0.243 -0.970 0.018	3872 964 4797	71.00	96 86.25 85.63	7.7 0.83 0.37E 30	9.0 109.2 3.4	1.642 -0.00787	24.83	5.83	11.03	2.59	***	***	*****	*****		
239.57916	-0.652 -0.754 0.081	0.236 -0.971 0.021	3936 953 4876	71.41	95 86.44 85.47	7.4 0.82 0.38E 30	9.0 109.5 3.5	1.673 -0.00647	21.82	11.27	10.03	5.18	***	***	*****	*****		
239.58055	-0.664 -0.743 0.083	0.230 -0.973 0.025	3999 943 4951	71.82	94 86.63 85.32	7.1 0.82 0.38E 30	9.1 109.7 3.6	1.711 -0.00491	25.62	12.44	11.91	5.78	***	***	*****	*****		
239.58194	-0.675 -0.732 0.086	0.223 -0.974 0.028	4062 933 5023	72.21	93 86.83 85.18	6.8 0.81 0.39E 30	9.1 110.0 3.8	1.786 -0.00398	28.02	13.01	13.47	6.26	***	***	*****	*****		
239.58333	-0.687 -0.721 0.089	0.217 -0.976 0.032	4124 923 5101	72.60	93 87.03 95.04	6.5 0.80 0.40E 30	9.1 110.3 3.9	1.812 -0.00296	24.10	12.53	11.99	6.23	***	***	*****	*****		
239.58472	-0.698 -0.710 0.091	0.211 -0.977 0.035	4185 914 5174	72.97	91 87.23 84.91	6.3 0.79 0.41E 30	9.1 110.6 4.0	1.838 -0.00211	18.17	8.45	9.34	4.35	***	***	*****	*****		
239.58611	-0.709 -0.699 0.094	0.206 -0.978 0.038	4246 905 5251	73.34	90 87.43 84.79	6.1 0.78 0.42E 30	9.1 110.9 4.1	1.863 -0.00133	18.55	10.82	9.86	5.75	***	***	*****	*****		
239.58749	-0.719 -0.688 0.096	0.199 -0.979 0.042	4307 896 5321	73.71	89 87.64 84.66	5.9 0.78 0.42E 30	9.2 111.1 4.2	1.894 -0.00036	16.16	11.33	8.67	6.08	***	***	*****	*****		
239.58958	-0.735 -0.671 0.100	0.189 -0.981 0.046	4395 882 5430	74.24	87 87.95 84.49	5.6 0.77 0.44E 30	9.2 111.6 4.3	1.904 0.00040	*****	8.97	*****	5.02	***	***	*****	*****		
239.59097	-0.744 -0.660 0.102	0.182 -0.982 0.050	4454 874 5495	74.59	86 88.17 84.38	5.4 0.77 0.45E 30	9.2 111.8 4.4	1.933 0.00115	*****	11.50	*****	6.56	***	***	*****	*****		
239.59236	-0.753 -0.649 0.105	0.177 -0.983 0.053	4512 865 5565	74.93	85 88.38 84.27	5.2 0.76 0.46E 30	9.2 112.1 4.5	1.956 0.00158	*****	7.48	*****	4.41	***	***	*****	*****		
239.59375	-0.762 -0.638 0.107	0.172 -0.983 0.057	4570 857 5636	75.27	84 88.60 84.16	5.0 0.75 0.47E 30	9.2 112.4 4.6	1.977 0.00197	*****	-1.32	*****	-0.80	***	***	*****	*****		
239.59513	-0.770 -0.628 0.109	0.167 -0.984 0.061	4626 849 5702	75.59	82 88.82 84.07	4.9 0.74 0.48E 30	9.2 112.7 4.7	1.999 0.00227	*****	7.79	*****	4.88	***	***	*****	*****		
239.59652	-0.779 -0.617 0.111	0.162 -0.985 0.064	4683 841 5774	75.92	81 89.04 83.97	4.7 0.73 0.49E 30	9.3 113.0 4.8	2.020 0.00258	*****	6.31	*****	4.04	***	***	*****	*****		

NORMALIZED BANDWIDTH VS LONGITUDE



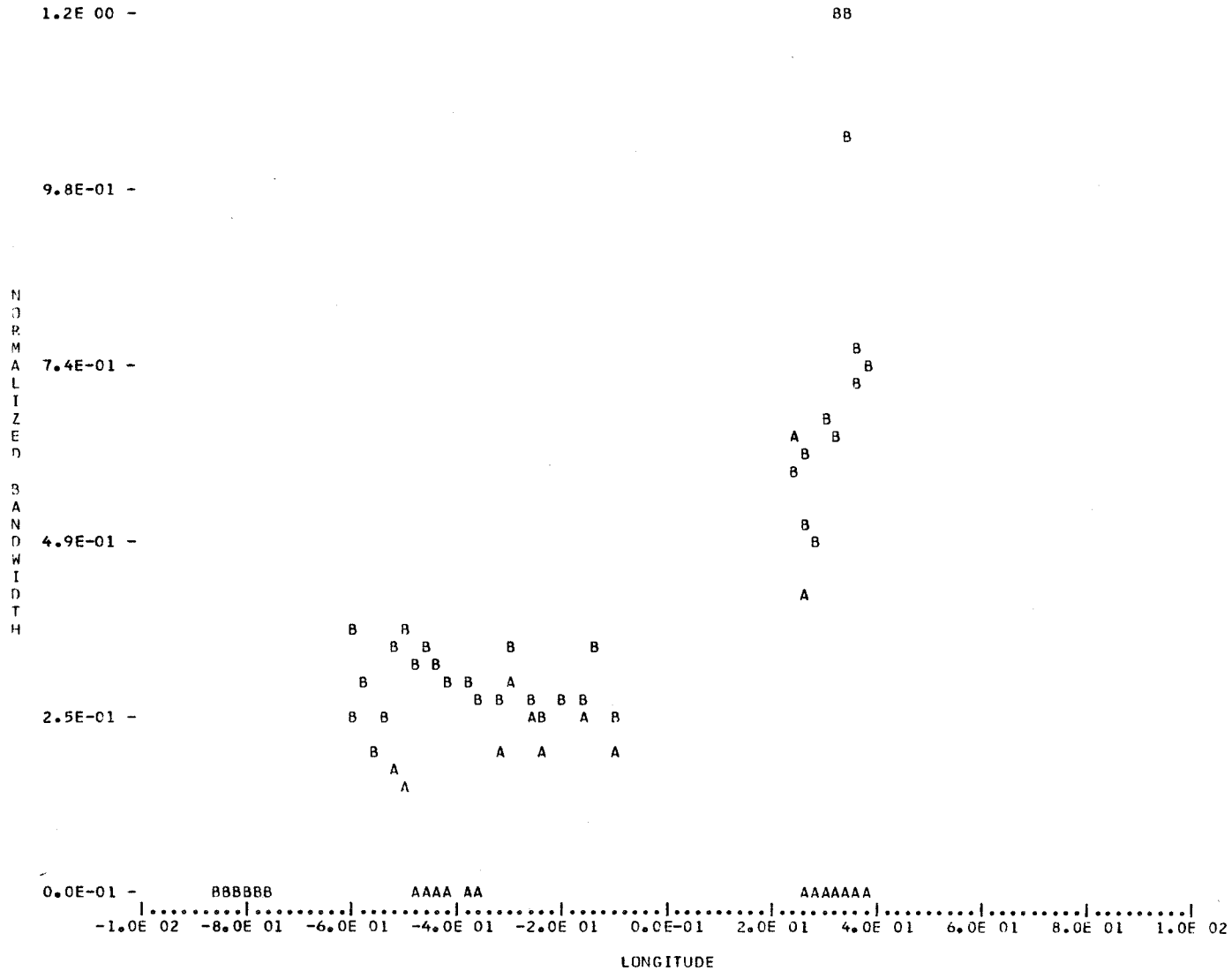
NORMALIZED REFLECTED POWER VS LONGITUDE



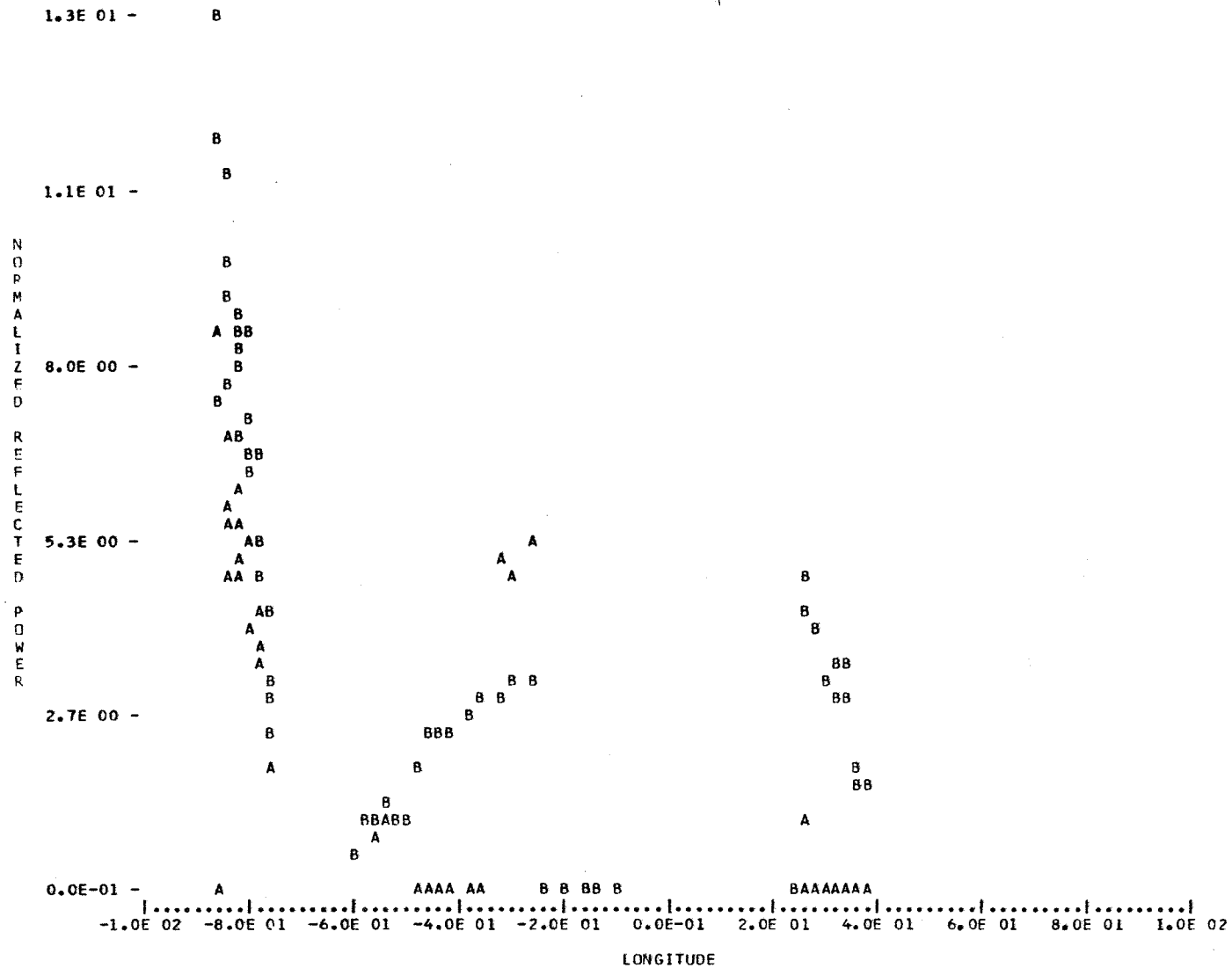
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	D OFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE
240.43333	0.440 0.898 0.001	0.789 0.612 -0.040	2269 1275 2566	43.55	38 -83.64 85.34	37.5 1.34 0.18E 30	9.1 119.5 3.6	-1.215 -0.00732	*****	10.60	*****	1.47	***	28	*****	0.747	
240.43472	0.469 0.882 -0.005	0.799 0.599 -0.044	2195 1293 2471	42.57	47 -83.51 85.75	40.0 1.36 0.18E 30	9.0 119.3 3.3	-1.138 -0.00509	*****	11.85	*****	1.58	***	28	*****	0.700	
240.43611	0.500 0.865 -0.012	0.810 0.585 -0.048	2122 1311 2380	41.53	2122 -83.39 86.20	42.7 1.39 0.17E 30	8.9 119.2 3.0	-1.050 -0.00333	*****	15.37	*****	1.95	***	32	*****	0.750	
240.43750	0.531 0.847 -0.019	0.820 0.571 -0.052	2049 1329 2291	40.49	2049 -83.28 86.66	65 1.41 0.17E 30	8.9 119.0 2.6	-0.922 -0.00187	*****	23.63	*****	2.85	***	48	*****	1.055	
240.43888	0.564 0.824 -0.026	0.832 0.553 -0.056	1977 1348 2198	39.30	1977 -83.22 87.19	74 1.44 0.16E 30	8.8 118.8 2.2	-0.788 -0.00077	*****	29.93	*****	3.43	***	60	*****	1.225	
240.44027	0.597 0.801 -0.033	0.843 0.534 -0.061	1905 1367 2113	38.11	1905 -83.17 87.72	84 1.47 0.15E 30	8.7 118.5 1.8	-0.651 -0.00006	*****	27.06	*****	2.96	***	64	*****	1.220	
240.44166	0.629 0.775 -0.041	0.855 0.515 -0.065	1834 1387 2022	36.84	1834 -83.16 88.30	95 1.51 0.15E 30	8.6 118.2 1.3	-0.473 0.00029	*****	33.08	*****	3.43	***	36	*****	0.638	
240.44305	0.661 0.747 -0.049	0.866 0.494 -0.070	1764 1406 1936	35.48	1764 -83.21 88.93	106 1.54 0.14E 30	8.5 117.7 0.8	-0.292 0.00037	*****	31.74	*****	3.13	***	40	*****	0.658	
240.44444	0.693 0.719 -0.057	0.877 0.474 -0.074	1694 1426 1854	34.12	1694 -83.25 89.57	117 1.58 0.14E 30	8.5 117.3 0.3	-0.110 0.00019	*****	43.15	*****	3.99	***	32	*****	0.491	
240.44583	0.725 0.684 -0.065	0.889 0.450 -0.079	1627 1446 1765	32.55	1627 -83.47 90.31	127 1.62 0.13E 30	8.4 116.6 -0.2	0.073 -0.00015	*****	47.99	*****	4.21	***	44	*****	0.622	
240.44722	0.756 0.649 -0.074	0.900 0.426 -0.084	1560 1466 1683	30.98	1560 -83.68 91.06	138 1.66 0.12E 30	8.3 115.7 -0.6	0.219 -0.00053	12.00	58.17	1.00	4.84	32	40	0.420	0.525	
240.44861	0.787 0.609 -0.082	0.912 0.399 -0.090	1495 1486 1600	29.29	1495 -84.05 91.87	149 1.70 0.12E 30	8.2 114.6 -1.0	0.364 -0.00094	*****	*****	*****	*****	52	48	0.632	0.583	
240.46666	0.961 -0.188 -0.181	0.971 -0.166 -0.157	919 1688 915	6.22	919 150.53 104.31	173.5 2.19 0.83E 29	7.3 157.9 -3.9	1.174 0.00019	*****	*****	*****	*****	36	44	0.208	0.253	
240.46805	0.944 -0.263 -0.184	0.960 -0.222 -0.160	904 1693 906	8.61	904 127.34 104.91	146 2.20 0.82E 29	7.3 134.2 -3.9	1.187 -0.00000	*****	*****	*****	*****	60	60	0.342	0.342	
240.46944	0.920 -0.336 -0.186	0.946 -0.277 -0.163	897 1696 902	11.39	897 112.92 105.29	133 2.19 0.81E 29	7.3 119.8 -4.1	1.276 -0.00047	*****	*****	*****	*****	44	48	0.253	0.276	
240.47083	0.889 -0.407 -0.187	0.927 -0.332 -0.164	896 1697 906	14.56	896 107.28 105.45	119 2.18 0.81E 29	7.3 114.2 -4.2	1.342 -0.00108	*****	*****	*****	*****	44	44	0.258	0.258	
240.47222	0.858 -0.478 -0.188	0.908 -0.386 -0.165	896 1697 924	17.73	896 101.64 105.61	106 2.16 0.81E 29	7.3 108.7 -4.3	1.430 -0.00212	*****	*****	*****	*****	32	40	0.192	0.240	
240.47361	0.814 -0.542 -0.186	0.882 -0.436 -0.164	909 1692 942	20.84	909 98.68 105.33	95 2.12 0.82E 29	7.3 105.6 -4.1	1.426 -0.00323	113.44	68.16	5.41	3.25	40	44	0.251	0.276	
240.47499	0.769 -0.607 -0.184	0.857 -0.487 -0.163	922 1687 970	23.95	922 95.72 105.06	84 2.07 0.83E 29	7.3 102.5 -3.9	1.435 -0.00473	97.61	62.23	4.82	3.07	44	52	0.291	0.344	

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	64
240.52361	-0.644 -0.764 0.041	0.204 -0.978 -0.038	3085 1101 3998	72.18	101 83.40 87.20	9.3 0.80 0.28E 30	8.8 105.4 2.2	1.271 0.00824	9.84	14.16	3.43	4.93	***	***	*****	*****		
240.52499	-0.661 -0.749 0.045	0.195 -0.980 -0.034	3156 1088 4087	72.72	100 83.59 86.99	8.8 0.78 0.28E 30	8.8 105.7 2.4	1.355 0.00924	11.59	17.92	4.26	6.59	***	***	*****	*****		
240.52638	-0.677 -0.734 0.049	0.186 -0.982 -0.031	3225 1075 4172	73.23	98 83.78 86.78	8.3 0.77 0.29E 30	8.9 106.0 2.5	1.381 0.00972	10.79	17.46	4.09	6.61	***	***	*****	*****		
240.52777	-0.693 -0.719 0.053	0.178 -0.984 -0.028	3295 1062 4262	73.75	96 83.97 86.57	7.8 0.76 0.30E 30	8.9 106.3 2.7	1.458 0.01050	10.30	16.37	4.06	6.46	***	***	*****	*****		
240.52916	-0.707 -0.705 0.057	0.170 -0.985 -0.024	3364 1050 4347	74.23	94 84.18 86.39	7.4 0.75 0.31E 30	8.9 106.6 2.8	1.481 0.01075	12.83	17.65	5.27	7.25	***	***	*****	*****		
240.53055	-0.721 -0.690 0.060	0.163 -0.986 -0.021	3433 1037 4433	74.72	92 84.38 86.21	7.0 0.74 0.32E 30	8.9 107.0 3.0	1.549 0.01107	14.96	19.83	6.40	8.48	***	***	*****	*****		
240.53194	-0.734 -0.676 0.064	0.155 -0.988 -0.017	3501 1025 4516	75.19	91 84.59 86.03	6.7 0.73 0.32E 30	9.0 107.3 3.1	1.568 0.01119	13.98	18.39	6.16	8.09	***	***	*****	*****		
240.53333	-0.747 -0.661 0.067	0.148 -0.989 -0.014	3568 1014 4600	75.64	89 84.80 85.87	6.3 0.72 0.33E 30	9.0 107.6 3.2	1.588 0.01125	10.52	15.42	4.82	7.06	***	***	*****	*****		
240.53472	-0.759 -0.647 0.071	0.141 -0.990 -0.010	3635 1002 4683	76.10	88 85.01 85.70	6.0 0.71 0.34E 30	9.0 107.9 3.4	1.655 0.01160	12.04	17.82	5.73	8.48	***	***	*****	*****		
240.53611	-0.770 -0.633 0.074	0.134 -0.991 -0.006	3701 991 4762	76.52	86 85.24 85.55	5.7 0.70 0.35E 30	9.0 108.2 3.5	1.674 0.01155	10.27	17.95	5.08	8.88	***	***	*****	*****		
240.53749	-0.781 -0.619 0.077	0.127 -0.992 -0.003	3767 980 4843	76.95	84 85.46 85.40	5.4 0.69 0.36E 30	9.0 108.5 3.6	1.691 0.01148	11.73	16.27	6.03	8.37	***	***	*****	*****		
240.53888	-0.792 -0.605 0.080	0.120 -0.993 0.001	3832 970 4924	77.36	81 85.69 85.26	5.2 0.68 0.36E 30	9.1 108.8 3.7	1.709 0.01137	11.00	18.40	5.81	9.72	***	***	*****	*****		
240.54027	-0.803 -0.590 0.083	0.112 -0.994 0.005	3897 959 5004	77.77	80 85.92 85.13	4.9 0.67 0.37E 30	9.1 109.1 3.8	1.726 0.01123	10.31	16.58	5.66	9.10	***	***	*****	*****		
240.54166	-0.814 -0.575 0.086	0.104 -0.995 0.009	3961 949 5084	78.17	78 86.15 84.99	4.7 0.66 0.38E 30	9.1 109.5 3.9	1.739 0.01092	8.55	13.52	4.87	7.70	***	***	*****	*****		
240.54305	-0.823 -0.562 0.088	0.098 -0.995 0.013	4024 939 5162	78.55	75 86.40 84.87	4.5 0.65 0.39E 30	9.1 109.8 4.0	1.757 0.01075	13.29	18.41	7.86	10.89	***	***	*****	*****		
240.54444	-0.832 -0.549 0.091	0.092 -0.996 0.016	4087 929 5241	78.94	73 86.64 84.75	4.3 0.64 0.40E 30	9.1 110.1 4.1	1.773 0.01057	11.46	15.64	7.03	9.60	***	***	*****	*****		
240.54583	-0.840 -0.535 0.093	0.086 -0.996 0.020	4149 919 5313	79.31	71 86.89 84.64	4.1 0.63 0.40E 30	9.2 110.4 4.2	1.791 0.01037	13.47	18.18	8.49	11.46	***	***	*****	*****		
240.54722	-0.847 -0.522 0.096	0.081 -0.997 0.024	4210 910 5383	79.68	69 87.14 84.53	3.9 0.62 0.41E 30	9.2 110.7 4.3	1.807 0.01017	*****	20.41	*****	13.34	***	***	*****	*****		
240.54861	-0.855 -0.509 0.099	0.075 -0.997 0.028	4271 901 5460	80.04	68 87.40 84.42	3.7 0.61 0.42E 30	9.2 111.0 4.4	1.824 0.00995	*****	10.85	*****	7.35	***	***	*****	*****		

NORMALIZED BANDWIDTH VS LONGITUDE



NORMALIZED REFLECTED POWER VS LONGITUDE



DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE
263.48472	-0.667 0.744 0.020	0.229 0.973 0.027	2821 1153 3837	76.98	-88 -91.11 86.17	8.5 0.67 0.25E 30	8.9 111.5 3.0	1.303 0.00525	22.63	16.20	8.31	5.95	***	***	*****	*****	
263.48611	-0.649 0.761 0.015	0.239 0.971 0.019	2748 1168 3748	76.41	-92 -90.65 86.33	9.0 0.68 0.24E 30	8.9 111.9 2.9	1.254 0.00396	25.43	6.53	8.91	2.29	8	14	0.888	1.554	
263.48749	-0.627 0.779 0.009	0.251 0.968 0.012	2674 1184 3652	75.79	-94 -90.21 86.52	9.6 0.70 0.23E 30	8.9 112.2 2.7	1.164 0.00252	23.78	10.03	7.83	3.30	8	14	0.830	1.452	
263.48888	-0.604 0.796 0.004	0.262 0.965 0.005	2601 1200 3552	75.17	-97 -89.77 86.72	10.3 0.72 0.22E 30	8.9 112.5 2.6	1.114 0.00110	29.73	8.51	9.21	2.64	***	***	*****	*****	
263.49027	-0.581 0.813 -0.002	0.274 0.961 -0.001	2527 1216 3458	74.52	-100 -89.35 86.93	11.0 0.74 0.22E 30	8.8 112.8 2.4	1.018 -0.00045	27.23	9.96	8.02	2.93	***	***	*****	*****	
263.49166	-0.556 0.830 -0.007	0.285 0.958 -0.008	2452 1233 3357	73.83	-102 -88.94 87.17	11.8 0.75 0.21E 30	8.8 113.1 2.2	0.921 -0.00202	30.49	11.07	8.55	3.10	***	***	*****	*****	
263.49305	-0.531 0.847 -0.013	0.296 0.955 -0.015	2378 1249 3260	73.15	-105 -88.52 87.40	12.6 0.77 0.20E 30	8.8 113.3 2.0	0.826 -0.00337	32.13	14.30	8.47	3.77	10	16	0.795	1.272	
263.49444	-0.503 0.863 -0.019	0.308 0.951 -0.021	2304 1267 3157	72.39	-107 -88.14 87.68	13.6 0.79 0.19E 30	8.7 113.5 1.8	0.729 -0.00475	30.16	13.01	7.55	3.26	18	16	1.322	1.176	
263.49583	-0.475 0.879 -0.026	0.321 0.947 -0.028	2229 1285 3059	71.64	-109 -87.76 87.96	14.6 0.81 0.18E 30	8.7 113.8 1.6	0.628 -0.00596	35.95	13.24	8.46	3.12	10	16	0.683	1.093	
263.49722	-0.445 0.894 -0.033	0.334 0.942 -0.034	2155 1303 2958	70.84	-112 -88.12 88.07	15.8 0.83 0.18E 30	8.7 113.3 1.5	0.589 -0.00706	38.22	16.42	8.45	3.63	14	22	0.884	1.390	
263.49861	-0.412 0.909 -0.040	0.347 0.937 -0.041	2081 1322 2853	69.99	-114 -89.23 87.98	17.2 0.86 0.17E 30	8.7 112.3 1.6	0.642 -0.00930	36.48	17.19	7.49	3.53	20	14	1.165	0.816	
263.50000	-0.379 0.924 -0.047	0.361 0.932 -0.047	2007 1340 2754	69.14	-116 -90.34 87.90	18.5 0.88 0.16E 30	8.7 111.2 1.6	0.659 -0.01148	51.56	26.73	9.95	5.16	18	14	0.972	0.756	
263.50138	-0.342 0.937 -0.055	0.376 0.925 -0.053	1934 1360 2649	68.18	-117 -89.99 88.19	20.3 0.91 0.16E 30	8.7 111.4 1.4	0.541 -0.01328	53.25	25.67	9.56	4.61	22	24	1.083	1.182	
263.50277	-0.305 0.950 -0.062	0.391 0.918 -0.060	1861 1379 2549	67.23	-118 -89.64 88.48	22.1 0.94 0.15E 30	8.6 111.6 1.2	0.427 -0.01426	63.25	34.53	10.68	5.83	26	28	1.177	1.268	
263.50416	-0.264 0.961 -0.070	0.408 0.910 -0.066	1789 1399 2445	66.20	-119 -89.30 88.80	24.2 0.97 0.15E 30	8.6 111.7 0.9	0.287 -0.01308	64.70	40.61	10.17	6.38	20	30	0.828	1.241	
263.50555	-0.220 0.971 -0.077	0.427 0.901 -0.072	1718 1420 2341	65.11	-120 -88.99 89.15	26.6 1.00 0.14E 30	8.5 111.8 0.7	0.192 -0.01208	68.20	49.22	10.10	7.29	14	40	0.527	1.506	
263.50694	-0.176 0.981 -0.085	0.445 0.892 -0.078	1647 1440 2243	64.02	-121 -88.68 89.51	28.9 1.03 0.13E 30	8.5 111.9 0.4	0.089 -0.00788	69.53	47.71	9.59	6.58	18	44	0.622	1.519	
263.50833	-0.128 0.986 -0.093	0.464 0.881 -0.084	1579 1460 2137	62.76	-120 -88.42 89.95	32.2 1.07 0.13E 30	8.4 111.9 0.0	0.000 0.00000	76.82	50.49	9.91	6.51	16	30	0.497	0.932	
263.50972	-0.079 0.991 -0.102	0.483 0.870 -0.090	1511 1481 2037	61.49	-120 -88.17 90.40	35.5 1.12 0.12E 30	8.4 111.8 -0.2	-0.018 0.00478	76.64	48.91	9.06	5.78	32	28	0.903	0.790	

NORMALIZED BANDWIDTH VS LONGITUDE

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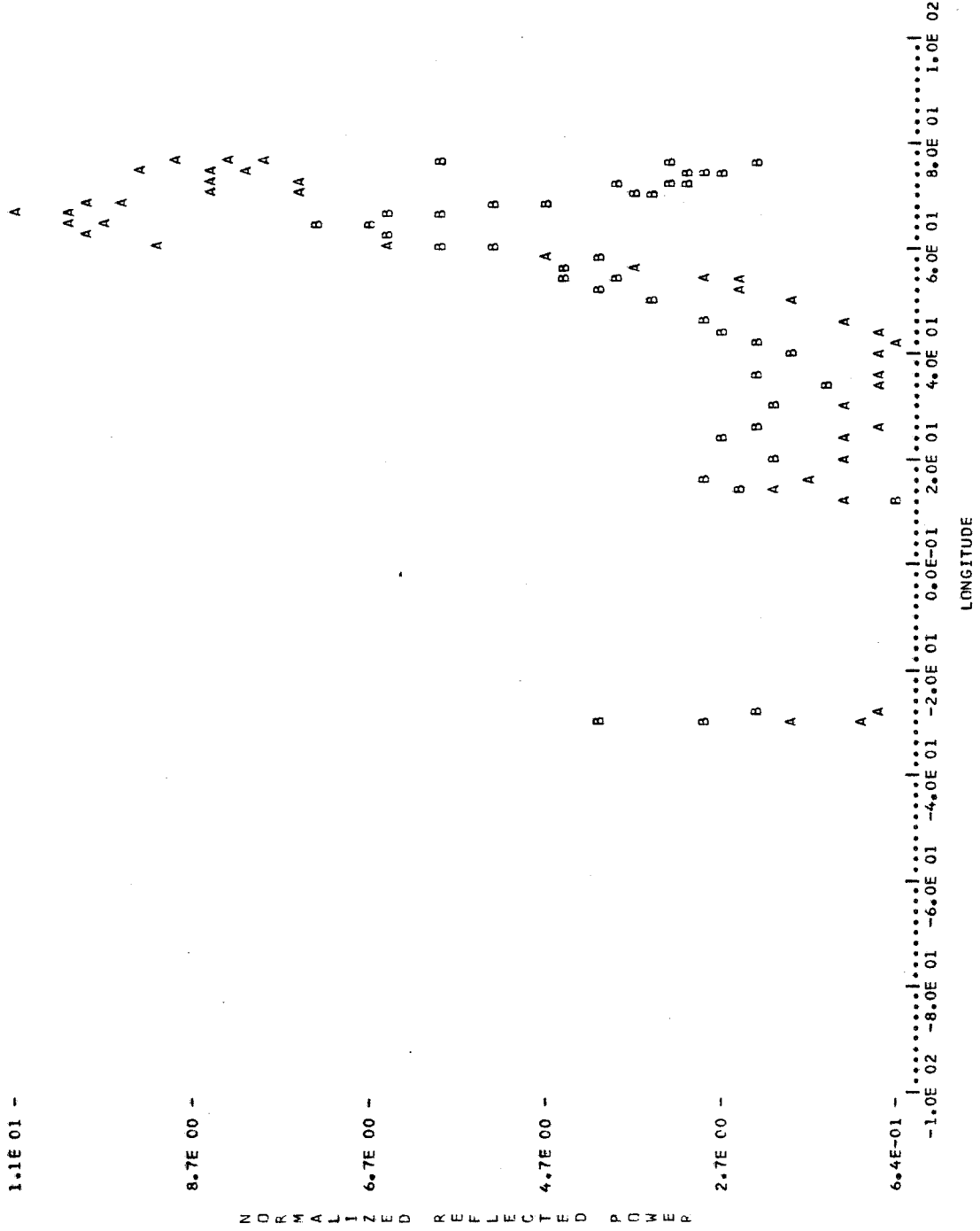
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LONGITUDE

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NORMALIZED REFLECTED POWER VS LONGITUDE



DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	77
264.38159	-0.931 0.338 0.139	0.083 0.931 0.355	5595 720 7036	87.06	-18 115.39 85.75	2.2 0.32 0.63E 30	9.0 87.5 3.3	1.160 0.00423	-0.40	*****	-0.79	*****	***	***	*****	*****		
264.38229	-0.929 0.342 0.139	0.085 0.933 0.349	5572 722 7006	86.95	-19 114.98 85.70	2.3 0.32 0.63E 30	9.0 87.9 3.4	1.202 0.00456	0.95	*****	1.86	*****	***	***	*****	*****		
264.38298	-0.928 0.347 0.138	0.087 0.935 0.343	5549 725 6984	86.84	-20 114.58 85.64	2.3 0.33 0.62E 30	9.0 88.3 3.4	1.209 0.00476	1.88	*****	3.54	*****	***	***	*****	*****		
264.38368	-0.926 0.352 0.137	0.088 0.937 0.336	5526 728 6954	86.73	-21 114.19 85.59	2.4 0.34 0.62E 30	9.0 88.8 3.4	1.216 0.00496	0.22	*****	0.40	*****	***	***	*****	*****		
264.38437	-0.924 0.357 0.137	0.090 0.940 0.330	5503 731 6926	86.62	-21 113.79 85.54	2.4 0.35 0.62E 30	9.0 89.2 3.5	1.259 0.00531	1.73	*****	3.04	*****	***	***	*****	*****		
264.38506	-0.923 0.362 0.136	0.092 0.942 0.324	5480 734 6904	86.51	-22 113.39 85.49	2.5 0.36 0.61E 30	9.0 89.6 3.5	1.266 0.00552	4.74	*****	8.03	*****	***	***	*****	*****		
264.38576	-0.921 0.367 0.136	0.094 0.944 0.318	5456 737 6875	86.39	-23 113.01 85.43	2.5 0.36 0.61E 30	9.0 90.0 3.6	1.310 0.00592	0.83	*****	1.39	*****	***	***	*****	*****		
264.38645	-0.919 0.372 0.135	0.097 0.945 0.312	5432 740 6848	86.27	-24 112.65 85.39	2.5 0.37 0.60E 30	9.0 90.4 3.6	1.318 0.00616	7.18	*****	11.67	*****	***	***	*****	*****		
264.38715	-0.916 0.378 0.134	0.100 0.947 0.306	5408 743 6815	86.15	-25 112.29 85.34	2.6 0.38 0.60E 30	9.1 90.8 3.6	1.326 0.00640	11.97	*****	18.62	*****	***	***	*****	*****		
264.38784	-0.914 0.383 0.133	0.102 0.949 0.301	5384 746 6786	86.04	-25 111.93 85.29	2.6 0.38 0.60E 30	9.1 91.2 3.7	1.371 0.00680	16.87	*****	26.07	*****	***	***	*****	*****		
264.38854	-0.912 0.388 0.132	0.105 0.950 0.295	5360 749 6760	85.92	-26 111.56 85.25	2.7 0.39 0.59E 30	9.1 91.6 3.7	1.379 0.00705	34.75	*****	51.98	*****	***	***	*****	*****		
264.38923	-0.910 0.394 0.132	0.107 0.952 0.289	5336 753 6733	85.80	-27 111.21 85.20	2.7 0.39 0.59E 30	9.1 92.0 3.7	1.387 0.00730	19.90	6.41	29.57	9.52	***	***	*****	*****		
264.38993	-0.908 0.399 0.131	0.109 0.953 0.284	5311 756 6704	85.67	-28 110.88 85.16	2.7 0.40 0.58E 30	9.1 92.3 3.8	1.434 0.00777	27.31	8.11	39.29	11.66	***	***	*****	*****		
264.39062	-0.905 0.404 0.130	0.111 0.954 0.278	5286 759 6669	85.55	-29 110.54 85.12	2.8 0.41 0.58E 30	9.1 92.7 3.8	1.442 0.00803	33.44	9.37	46.59	13.05	***	***	*****	*****		
264.39131	-0.903 0.408 0.129	0.113 0.955 0.273	5262 762 6640	85.43	-30 110.21 85.08	2.8 0.42 0.58E 30	9.1 93.0 3.8	1.451 0.00829	17.95	3.78	24.25	5.10	***	***	*****	*****		
264.39201	-0.901 0.413 0.128	0.115 0.956 0.268	5237 765 6612	85.30	-31 109.88 85.04	2.9 0.43 0.57E 30	9.1 93.4 3.9	1.498 0.00879	15.57	4.32	20.40	5.65	***	***	*****	*****		
264.39270	-0.899 0.419 0.128	0.117 0.958 0.263	5212 769 6585	85.18	-32 109.55 85.00	2.9 0.43 0.57E 30	9.1 93.7 3.9	1.507 0.00905	17.57	8.59	22.86	11.17	***	***	*****	*****		
264.39340	-0.897 0.424 0.127	0.119 0.959 0.257	5187 772 6557	85.05	-33 109.24 84.97	2.9 0.44 0.56E 30	9.1 94.1 3.9	1.516 0.00933	14.49	3.73	18.28	4.70	***	***	*****	*****		
264.39409	-0.894 0.429 0.126	0.121 0.960 0.252	5162 776 6523	84.92	-34 108.93 84.93	3.0 0.44 0.56E 30	9.1 94.4 4.0	1.565 0.00987	24.83	7.77	31.11	9.74	***	***	*****	*****		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNR	PAGE	78
264.39479	-0.892 0.434 0.125	0.123 0.961 0.247	5136 779 6494	84.79	-34 108.62 84.90	3.0 0.45 0.56E 30	9.1 94.7 4.0	1.574 0.01017	35.04	11.32	42.60	13.77	***	***	*****	*****		
264.39548	-0.890 0.439 0.124	0.125 0.962 0.243	5111 782 6467	84.66	-35 108.31 84.86	3.0 0.46 0.55E 30	9.1 95.1 4.0	1.583 0.01044	36.43	12.12	43.02	14.31	***	***	*****	*****		
264.39618	-0.888 0.445 0.123	0.127 0.963 0.238	5085 786 6440	84.53	-36 108.01 84.83	3.1 0.46 0.55E 30	9.1 95.4 4.0	1.592 0.01073	45.05	20.03	52.80	23.48	***	***	*****	*****		
264.39687	-0.885 0.450 0.122	0.129 0.964 0.233	5059 789 6405	84.40	-37 107.72 84.80	3.1 0.47 0.54E 30	9.1 95.7 4.1	1.642 0.01130	28.18	8.32	32.08	9.47	***	***	*****	*****		
264.39756	-0.882 0.455 0.122	0.131 0.965 0.228	5033 793 6371	84.26	-38 107.43 84.77	3.2 0.47 0.54E 30	9.1 96.0 4.1	1.652 0.01162	39.88	10.93	45.05	12.34	***	***	*****	*****		
264.39826	-0.880 0.460 0.120	0.133 0.966 0.223	5006 797 6342	84.13	-39 107.15 84.74	3.2 0.47 0.54E 30	9.1 96.3 4.1	1.662 0.01191	32.39	9.46	36.29	10.60	***	***	*****	*****		
264.39895	-0.877 0.465 0.119	0.135 0.967 0.218	4980 800 6308	84.00	-40 106.86 84.71	3.2 0.48 0.53E 30	9.1 96.6 4.2	1.712 0.01250	35.17	7.87	38.30	8.56	***	***	*****	*****		
264.39965	-0.875 0.471 0.119	0.137 0.967 0.214	4953 804 6282	83.86	-41 106.58 84.69	3.3 0.48 0.53E 30	9.2 96.9 4.2	1.722 0.01282	41.57	12.69	44.41	13.55	***	***	*****	*****		
264.40034	-0.872 0.476 0.118	0.139 0.968 0.210	4926 807 6247	83.72	-42 106.31 84.66	3.3 0.49 0.52E 30	9.2 97.2 4.2	1.733 0.01314	25.45	7.71	26.42	8.00	***	***	*****	*****		
264.40034	-0.872 0.476 0.118	0.139 0.968 0.210	4926 807 6247	83.72	-42 106.31 84.66	3.3 0.49 0.52E 30	9.2 97.2 4.2	1.733 0.01314	29.92	10.04	31.06	10.42	***	***	*****	*****		
264.40104	-0.869 0.481 0.117	0.141 0.968 0.205	4899 811 6214	83.58	-43 106.04 84.64	3.4 0.50 0.52E 30	9.2 97.5 4.2	1.743 0.01344	31.26	10.67	31.54	10.77	***	***	*****	*****		
264.40173	-0.866 0.486 0.116	0.144 0.969 0.201	4872 815 6181	83.44	-43 105.77 84.62	3.4 0.50 0.52E 30	9.2 97.8 4.2	1.753 0.01375	41.19	14.05	41.23	14.06	***	***	*****	*****		
264.40243	-0.863 0.491 0.115	0.146 0.970 0.197	4845 818 6147	83.30	-44 105.49 84.59	3.5 0.51 0.51E 30	9.2 98.1 4.3	1.805 0.01438	35.71	11.75	34.76	11.44	***	***	*****	*****		
264.40312	-0.860 0.497 0.114	0.149 0.970 0.193	4818 822 6117	83.16	-45 105.23 84.57	3.5 0.51 0.51E 30	9.2 98.3 4.3	1.816 0.01472	36.18	10.80	34.93	10.43	***	***	*****	*****		
264.40381	-0.857 0.503 0.113	0.152 0.970 0.189	4790 826 6086	83.01	-46 104.98 84.55	3.5 0.52 0.50E 30	9.2 98.6 4.3	1.826 0.01503	33.22	8.36	31.18	7.84	***	***	*****	*****		
264.40451	-0.853 0.509 0.113	0.155 0.970 0.184	4763 830 6051	82.86	-47 104.72 84.53	3.6 0.52 0.49E 30	9.2 98.9 4.3	1.837 0.01534	30.65	9.29	28.54	8.65	***	***	*****	*****		
264.40520	-0.849 0.516 0.111	0.158 0.971 0.180	4735 833 6016	82.72	-48 104.47 84.51	3.6 0.53 0.49E 30	9.2 99.1 4.3	1.847 0.01566	35.57	9.74	32.21	8.82	***	***	*****	*****		
264.40590	-0.846 0.522 0.111	0.161 0.971 0.176	4707 837 5986	82.57	-49 104.21 84.49	3.7 0.54 0.48E 30	9.2 99.4 4.3	1.857 0.01595	22.99	7.04	20.26	6.20	***	***	*****	*****		
264.40659	-0.842 0.528 0.109	0.164 0.971 0.172	4679 841 5950	82.42	-50 103.97 84.48	3.7 0.54 0.48E 30	9.2 99.6 4.4	1.912 0.01667	47.35	9.10	41.36	7.95	***	***	*****	*****		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE 79
264.40729	-0.839 0.533 0.108	0.167 0.971 0.168	4650 845 5918	82.27	-51 103.73 84.46	3.8 0.55 0.47E 30	9.2 99.9 4.4	1.922 0.01695	34.63	10.21	29.43	8.68	***	***	*****	*****	
264.40798	-0.836 0.539 0.107	0.169 0.971 0.164	4622 850 5888	82.12	-52 103.49 84.45	3.8 0.55 0.47E 30	9.2 100.1 4.4	1.933 0.01728	30.77	11.55	25.92	9.73	***	***	*****	*****	
264.40868	-0.832 0.545 0.106	0.171 0.972 0.161	4594 854 5851	81.97	-53 103.25 84.43	3.9 0.55 0.47E 30	9.2 100.4 4.4	1.943 0.01752	27.40	8.30	22.87	6.93	***	***	*****	*****	
264.40937	-0.829 0.550 0.105	0.174 0.972 0.157	4565 858 5819	81.82	-54 103.01 84.42	4.0 0.56 0.46E 30	9.2 100.6 4.4	1.953 0.01783	30.84	11.99	25.06	9.74	***	***	*****	*****	
264.41006	-0.825 0.556 0.103	0.176 0.972 0.153	4536 862 5782	81.66	-55 102.77 84.41	4.0 0.56 0.46E 30	9.2 100.9 4.4	1.963 0.01808	31.42	10.57	25.30	8.51	***	***	*****	*****	
264.41076	-0.821 0.561 0.102	0.179 0.972 0.150	4507 866 5745	81.50	-56 102.54 84.40	4.1 0.57 0.45E 30	9.2 101.1 4.4	1.974 0.01839	26.77	12.22	20.98	9.57	***	***	*****	*****	
264.41145	-0.817 0.567 0.101	0.181 0.972 0.146	4478 871 5709	81.34	-57 102.32 84.39	4.1 0.57 0.45E 30	9.2 101.3 4.4	1.985 0.01869	29.11	12.85	22.60	9.98	***	***	*****	*****	
264.41215	-0.814 0.573 0.100	0.184 0.973 0.142	4449 875 5680	81.18	-58 102.09 84.38	4.2 0.58 0.45E 30	9.2 101.6 4.4	1.994 0.01888	31.73	9.26	23.99	7.00	***	***	*****	*****	
264.41284	-0.810 0.578 0.099	0.187 0.973 0.139	4420 879 5644	81.02	-59 101.86 84.38	4.3 0.59 0.44E 30	9.2 101.8 4.4	2.005 0.01915	26.82	10.29	19.75	7.58	***	***	*****	*****	
264.41354	-0.806 0.584 0.097	0.189 0.973 0.135	4390 883 5607	80.86	-60 101.63 84.37	4.3 0.59 0.44E 30	9.2 102.0 4.5	2.062 0.01985	33.83	8.85	24.66	6.45	***	***	*****	*****	
264.41423	-0.802 0.590 0.096	0.192 0.973 0.132	4360 888 5573	80.69	-61 101.42 84.37	4.4 0.60 0.43E 30	9.2 102.3 4.5	2.071 0.02001	28.14	11.39	19.98	8.08	***	***	*****	*****	
264.41493	-0.797 0.595 0.095	0.194 0.972 0.128	4330 892 5530	80.52	-62 101.20 84.36	4.5 0.60 0.43E 30	9.2 102.5 4.5	2.082 0.02026	26.76	9.61	18.81	6.76	***	***	*****	*****	
264.41562	-0.793 0.601 0.094	0.197 0.972 0.125	4299 896 5495	80.35	-63 100.98 84.36	4.5 0.60 0.43E 30	9.2 102.7 4.5	2.092 0.02049	28.05	10.75	19.52	7.48	***	***	*****	*****	
264.41631	-0.789 0.607 0.093	0.200 0.972 0.122	4269 901 5462	80.18	-64 100.76 84.36	4.6 0.61 0.42E 30	9.2 102.9 4.5	2.102 0.02069	27.29	4.72	18.49	3.20	***	***	*****	*****	
264.41701	-0.785 0.613 0.091	0.202 0.972 0.118	4239 905 5426	80.01	-65 100.55 84.35	4.7 0.61 0.42E 30	9.2 103.1 4.5	2.112 0.02088	22.24	7.09	14.92	4.75	***	***	*****	*****	
264.41770	-0.780 0.619 0.090	0.205 0.972 0.115	4208 910 5387	79.83	-66 100.34 84.36	4.8 0.62 0.41E 30	9.2 103.3 4.5	2.123 0.02106	26.66	8.57	17.41	5.60	***	***	*****	*****	
264.41840	-0.775 0.625 0.088	0.208 0.971 0.111	4177 915 5348	79.65	-67 100.13 84.36	4.8 0.63 0.41E 30	9.2 103.6 4.5	2.130 0.02107	34.72	14.06	22.09	8.94	***	***	*****	*****	
264.41919	-0.770 0.631 0.087	0.211 0.971 0.108	4146 920 5310	79.48	-68 -99.92 84.36	4.9 0.63 0.41E 30	9.2 103.8 4.5	2.139 0.02117	22.23	4.53	13.99	2.85	***	***	*****	*****	
264.41979	-0.765 0.637 0.086	0.214 0.971 0.105	4115 925 5271	79.30	-69 -99.71 84.36	5.0 0.64 0.40E 30	9.2 104.0 4.5	2.148 0.02126	31.72	10.64	19.45	6.53	***	***	*****	*****	

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	PNA	PNB	IBWA	IBWB	BWNA	BWNB	PAGE	87
264.42048	-0.760 0.643 0.084	0.217 0.971 0.101	4084 930 5233	79.12	-70 -99.51 84.37	5.1 0.64 0.40E 30	9.2 104.2 4.5	2.157 0.02132	31.57	9.78	19.15	5.93	***	***	*****	*****		
264.42118	-0.755 0.650 0.083	0.221 0.970 0.098	4053 925 5200	78.93	-71 -99.31 84.37	5.2 0.65 0.39E 30	9.2 104.4 4.5	2.166 0.02137	26.80	8.32	15.84	4.92	***	***	*****	*****		
264.42187	-0.749 0.657 0.081	0.225 0.969 0.095	4021 940 5161	78.74	-72 -99.11 84.38	5.3 0.65 0.39E 30	9.2 104.6 4.4	2.126 0.02090	21.48	6.71	12.55	3.92	***	***	*****	*****		
264.42256	-0.743 0.663 0.080	0.228 0.969 0.092	3989 944 5118	78.56	-73 -98.91 84.39	5.4 0.65 0.39E 30	9.2 104.8 4.4	2.133 0.02085	25.06	7.20	14.48	4.16	***	***	*****	*****		
264.42326	-0.738 0.670 0.079	0.232 0.968 0.089	3958 949 5086	78.37	-74 -98.71 84.40	5.5 0.66 0.38E 30	9.2 105.0 4.4	2.140 0.02079	23.27	5.18	13.10	2.92	***	***	*****	*****		
264.42395	-0.732 0.676 0.077	0.236 0.968 0.086	3926 955 5045	78.18	-75 -98.51 84.41	5.6 0.66 0.38E 30	9.2 105.1 4.4	2.151 0.02088	30.28	4.90	16.86	2.73	***	***	*****	*****		
264.42465	-0.726 0.682 0.076	0.239 0.967 0.083	3894 960 5004	77.99	-76 -98.32 84.42	5.7 0.67 0.37E 30	9.2 105.3 4.4	2.158 0.02074	28.13	10.05	15.25	5.45	***	***	*****	*****		
264.42534	-0.720 0.688 0.074	0.242 0.967 0.080	3862 965 4962	77.79	-77 -98.13 84.43	5.8 0.67 0.37E 30	9.2 105.5 4.4	2.164 0.02056	23.43	6.68	12.56	3.58	***	***	*****	*****		
264.42604	-0.715 0.695 0.072	0.245 0.967 0.076	3829 970 4927	77.59	-78 -97.93 84.45	5.9 0.67 0.37E 30	9.2 105.7 4.4	2.170 0.02033	36.61	8.40	19.40	4.45	***	***	*****	*****		
264.42673	-0.709 0.701 0.071	0.248 0.966 0.074	3797 975 4887	77.40	-79 -97.74 84.46	6.0 0.68 0.36E 30	9.2 105.9 4.4	2.174 0.02004	27.21	9.42	14.04	4.86	***	***	*****	*****		
264.42673	-0.709 0.701 0.071	0.248 0.966 0.074	3797 975 4887	77.40	-79 -97.74 84.46	6.0 0.68 0.36E 30	9.2 105.9 4.4	2.174 0.02004	21.00	6.95	10.84	3.58	***	***	*****	*****		
264.42743	-0.703 0.707 0.069	0.252 0.966 0.071	3764 981 4847	77.19	-80 -97.55 84.48	6.1 0.68 0.36E 30	9.2 106.1 4.4	2.179 0.01971	28.94	10.34	14.76	5.27	***	***	*****	*****		
264.42812	-0.696 0.714 0.068	0.255 0.965 0.068	3731 986 4805	76.99	-81 -97.36 84.50	6.3 0.69 0.35E 30	9.2 106.2 4.3	2.138 0.01914	28.19	10.21	13.99	5.07	***	***	*****	*****		
264.42881	-0.690 0.720 0.066	0.258 0.964 0.065	3698 992 4765	76.77	-82 -97.17 84.52	6.4 0.69 0.35E 30	9.2 106.4 4.3	2.142 0.01871	28.14	11.00	13.80	5.39	***	***	*****	*****		
264.42951	-0.684 0.726 0.064	0.261 0.963 0.062	3665 998 4726	76.56	-83 -96.98 84.54	6.5 0.70 0.35E 30	9.2 106.6 4.3	2.144 0.01822	23.24	5.61	11.10	2.68	***	***	*****	*****		
264.43020	-0.677 0.733 0.063	0.264 0.962 0.059	3632 1003 4685	76.35	-84 -96.80 84.56	6.7 0.71 0.34E 30	9.2 106.8 4.3	2.146 0.01766	21.55	9.38	10.03	4.36	***	***	*****	*****		
264.43090	-0.671 0.739 0.061	0.268 0.962 0.057	3598 1009 4646	76.14	-85 -96.61 84.58	6.8 0.71 0.34E 30	9.2 106.9 4.3	2.153 0.01731	24.02	9.35	11.03	4.29	***	***	*****	*****		
264.43159	-0.663 0.745 0.059	0.271 0.961 0.053	3564 1015 4597	75.92	-86 -96.43 84.61	7.0 0.72 0.33E 30	9.2 107.1 4.2	2.103 0.01625	23.86	8.43	10.67	3.77	***	***	*****	*****		
264.43229	-0.656 0.752 0.057	0.275 0.960 0.050	3530 1021 4558	75.69	-87 -96.25 84.63	7.1 0.72 0.32E 30	9.2 107.3 4.2	2.103 0.01549	21.25	9.59	9.38	4.24	***	***	*****	*****		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DUFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	81
264.43298	-0.649 0.758 0.056	0.279 0.959 0.047	3497 1026 4518	75.47	-87 -96.07 84.66	7.3 0.72 0.32E 30	9.2 107.4 4.2	2.107 0.01497	24.23	6.93	10.56	3.02	***	***	*****	*****		
264.43368	-0.642 0.764 0.054	0.282 0.958 0.044	3463 1032 4476	75.25	-88 -95.88 84.69	7.5 0.73 0.31E 30	9.1 107.6 4.2	2.105 0.01407	23.47	7.25	10.07	3.11	***	***	*****	*****		
264.43437	-0.635 0.770 0.052	0.286 0.957 0.042	3429 1038 4435	75.02	-89 -95.70 84.72	7.6 0.73 0.31E 30	9.1 107.8 4.1	2.051 0.01280	21.51	6.43	9.11	2.72	***	***	*****	*****		
264.43506	-0.627 0.777 0.050	0.290 0.956 0.039	3394 1044 4393	74.78	-90 -95.53 84.75	7.8 0.74 0.30E 30	9.1 107.9 4.1	2.054 0.01205	22.18	9.95	9.14	4.10	***	***	*****	*****		
264.43576	-0.619 0.783 0.048	0.293 0.955 0.036	3360 1051 4348	74.54	-91 -95.35 84.79	8.0 0.75 0.30E 30	9.1 108.1 4.1	2.049 0.01090	16.60	3.46	6.66	1.39	***	***	*****	*****		
264.43645	-0.611 0.789 0.046	0.297 0.954 0.034	3325 1057 4303	74.30	-92 -95.17 84.82	8.2 0.75 0.30E 30	9.1 108.2 4.1	2.049 0.00999	24.87	8.52	9.84	3.37	***	***	*****	*****		
264.43715	-0.603 0.796 0.044	0.301 0.953 0.031	3290 1063 4263	74.06	-93 -94.99 84.86	8.4 0.76 0.29E 30	9.1 108.4 4.0	1.992 0.00849	22.14	7.94	8.53	3.06	8	20	0.955	2.388		
264.43784	-0.594 0.802 0.042	0.305 0.952 0.029	3255 1069 4215	73.81	-94 -94.82 84.90	8.6 0.76 0.29E 30	9.1 108.5 4.0	1.990 0.00740	21.67	10.44	8.23	3.97	***	***	*****	*****		
264.43854	-0.585 0.809 0.040	0.310 0.951 0.026	3220 1076 4173	73.56	-95 -94.65 84.94	8.8 0.77 0.28E 30	9.1 108.7 4.0	1.980 0.00591	25.39	8.51	9.39	3.15	***	***	*****	*****		
264.43923	-0.575 0.816 0.038	0.315 0.949 0.023	3185 1083 4128	73.30	-96 -94.47 84.99	9.0 0.77 0.28E 30	9.1 108.8 3.9	1.927 0.00453	21.37	9.33	7.79	3.40	8	16	0.885	1.769		
264.43993	-0.566 0.823 0.036	0.320 0.947 0.020	3150 1089 4088	73.04	-96 -94.30 85.03	9.3 0.78 0.28E 30	9.1 109.0 3.9	1.914 0.00286	20.18	4.57	7.16	1.62	***	***	*****	*****		
264.44062	-0.557 0.830 0.034	0.325 0.946 0.017	3115 1096 4047	72.79	-97 -94.13 85.07	9.5 0.79 0.27E 30	9.1 109.1 3.8	1.859 0.00145	22.06	5.11	7.61	1.76	8	16	0.842	1.684		
264.44131	-0.547 0.836 0.032	0.329 0.944 0.015	3079 1102 3999	72.52	-98 -93.95 85.12	9.8 0.79 0.27E 30	9.1 109.3 3.8	1.844 -0.00040	14.01	7.38	4.77	2.51	***	***	*****	*****		
264.44201	-0.537 0.842 0.029	0.334 0.943 0.012	3044 1109 3953	72.25	-98 -93.78 85.18	10.0 0.80 0.26E 30	9.1 109.4 3.8	1.835 -0.00206	16.80	8.11	5.56	2.69	***	***	*****	*****		
264.44270	-0.527 0.848 0.027	0.338 0.941 0.009	3008 1117 3906	71.97	-99 -93.62 85.23	10.3 0.80 0.26E 30	9.1 109.5 3.7	1.776 -0.00370	17.48	6.73	5.70	2.19	***	***	*****	*****		
264.44340	-0.517 0.855 0.025	0.342 0.939 0.007	2972 1123 3863	71.69	-100 -93.45 85.28	10.6 0.81 0.26E 30	9.1 109.7 3.7	1.756 -0.00584	18.20	7.61	5.77	2.41	***	***	*****	*****		
264.44409	-0.507 0.861 0.022	0.347 0.938 0.004	2937 1131 3819	71.42	-100 -93.27 85.34	10.9 0.82 0.25E 30	9.1 109.8 3.6	1.696 -0.00746	14.11	6.21	4.36	1.92	***	***	*****	*****		
264.44479	-0.497 0.867 0.020	0.351 0.936 0.002	2901 1138 3774	71.13	-101 -93.11 85.40	11.2 0.82 0.25E 30	9.0 110.0 3.6	1.672 -0.00976	12.48	3.16	3.84	0.97	***	***	*****	*****		
264.44548	-0.486 0.873 0.017	0.356 0.934 -0.001	2865 1145 3728	70.83	-101 -92.94 85.46	11.5 0.83 0.24E 30	9.0 110.1 3.5	1.609 -0.01157	12.33	2.72	3.69	0.81	***	***	*****	*****		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	82
264.44618	-0.475 0.879 0.015	0.360 0.932 -0.003	2829 1152 3681	70.53	-102 -92.78 85.53	11.9 0.83 0.24E 30	9.0 110.2 3.5	1.590 -0.01380	14.40	1.03	4.24	0.30	***	***	*****	*****		
264.44687	-0.463 0.886 0.013	0.365 0.931 -0.006	2792 1159 3634	70.23	-103 -92.61 85.60	12.2 0.84 0.24E 30	9.0 110.3 3.4	1.525 -0.01561	16.58	3.97	4.74	1.14	***	***	*****	*****		
264.44756	-0.452 0.892 0.010	0.370 0.929 -0.009	2756 1166 3590	69.93	-103 -92.45 85.66	12.5 0.85 0.23E 30	9.0 110.5 3.4	1.495 -0.01812	18.18	3.91	5.06	1.09	12	12	0.957	0.957		
264.44826	-0.441 0.898 0.008	0.375 0.927 -0.011	2720 1174 3547	69.61	-104 -92.28 85.74	12.9 0.85 0.23E 30	9.0 110.6 3.3	1.428 -0.02000	16.14	7.05	4.42	1.93	8	12	0.619	0.928		
264.44895	-0.428 0.903 0.005	0.380 0.925 -0.014	2683 1182 3493	69.28	-104 -92.12 85.82	13.3 0.86 0.23E 30	9.0 110.7 3.3	1.401 -0.02262	13.29	5.30	3.54	1.41	12	8	0.900	0.599		
264.44965	-0.416 0.909 0.002	0.385 0.922 -0.017	2646 1190 3449	68.95	-105 -91.96 85.89	13.8 0.87 0.22E 30	9.0 110.8 3.2	1.331 -0.02448	12.81	0.04	3.31	0.01	12	8	0.872	0.581		
264.45034	-0.404 0.915 -0.001	0.390 0.920 -0.019	2610 1198 3404	68.62	-105 -91.80 85.97	14.2 0.88 0.22E 30	9.0 110.9 3.1	1.260 -0.02625	11.33	1.90	2.85	0.48	12	16	0.846	1.127		
264.45104	-0.391 0.920 -0.004	0.395 0.918 -0.022	2573 1206 3354	68.29	-105 -91.64 86.05	14.6 0.89 0.22E 30	9.0 111.0 3.1	1.229 -0.02886	13.33	3.24	3.26	0.79	8	8	0.548	0.548		
264.45173	-0.378 0.926 -0.007	0.401 0.916 -0.024	2537 1214 3309	67.95	-105 -91.48 86.14	15.1 0.89 0.22E 30	8.9 111.1 3.0	1.157 -0.03053	14.82	2.41	3.60	0.59	12	12	0.795	0.795		
264.45243	-0.364 0.931 -0.010	0.406 0.913 -0.027	2500 1222 3259	67.59	-105 -91.32 86.24	15.6 0.90 0.21E 30	8.9 111.2 2.9	1.083 -0.03219	11.95	2.05	2.82	0.48	12	12	0.769	0.769		
264.45312	-0.349 0.936 -0.013	0.412 0.910 -0.030	2463 1231 3207	67.22	-105 -91.17 86.34	16.2 0.91 0.21E 30	8.9 111.3 2.9	1.044 -0.03497	9.93	2.89	2.28	0.66	8	4	0.495	0.247		
264.45312	-0.349 0.936 -0.013	0.412 0.910 -0.030	2463 1231 3207	67.22	-105 -91.17 86.34	16.2 0.91 0.21E 30	8.9 111.3 2.9	1.044 -0.03497	11.70	2.46	2.69	0.57	8	4	0.495	0.247		
264.45381	-0.335 0.941 -0.015	0.418 0.908 -0.032	2426 1239 3159	66.86	-105 -91.01 86.43	16.7 0.92 0.21E 30	8.9 111.4 2.8	0.970 -0.03634	11.52	1.46	2.57	0.33	4	8	0.240	0.479		
264.45451	-0.321 0.946 -0.018	0.423 0.905 -0.035	2389 1247 3111	66.50	-105 -90.85 86.53	17.2 0.93 0.20E 30	8.9 111.5 2.7	0.897 -0.03750	7.72	2.63	1.67	0.57	16	12	0.930	0.698		
264.45520	-0.306 0.951 -0.022	0.429 0.902 -0.037	2353 1255 3064	66.12	-105 -90.70 86.63	17.8 0.94 0.20E 30	8.9 111.6 2.6	0.822 -0.03856	7.98	0.56	1.68	0.12	8	8	0.449	0.449		
264.45590	-0.289 0.956 -0.025	0.436 0.899 -0.040	2316 1264 3012	65.72	-105 -90.55 86.75	18.5 0.95 0.19E 30	8.9 111.7 2.5	0.747 -0.03949	7.27	-0.52	1.49	-0.11	12	8	0.650	0.432		
264.45659	-0.273 0.961 -0.028	0.443 0.895 -0.042	2279 1273 2966	65.32	-106 -90.40 86.87	19.2 0.96 0.19E 30	8.8 111.8 2.4	0.674 -0.04014	4.05	1.07	0.81	0.22	20	16	1.044	0.835		
264.45729	-0.257 0.965 -0.031	0.450 0.892 -0.045	2241 1282 2916	64.91	-105 -90.26 86.98	19.8 0.97 0.19E 30	8.8 111.9 2.4	0.627 -0.04230	11.64	4.22	2.28	0.83	20	20	1.009	1.009		
264.45798	-0.240 0.970 -0.034	0.457 0.889 -0.048	2205 1291 2869	64.51	-105 -90.11 87.10	20.5 0.98 0.18E 30	8.8 111.9 2.3	0.560 -0.04267	7.75	0.59	1.47	0.11	12	12	0.585	0.585		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	93
264.45868	-0.223 0.974 -0.038	0.463 0.885 -0.050	2168 1300 2819	64.08	-105 -89.96 87.23	21.3 1.00 0.18E 30	8.8 112.0 2.2	0.488 -0.04263	8.17	2.14	1.49	0.39	12	16	0.563	0.752		
264.45937	-0.206 0.977 -0.041	0.470 0.881 -0.053	2131 1309 2769	63.63	-105 -89.82 87.37	22.2 1.01 0.17E 30	8.8 112.1 2.1	0.417 -0.04233	11.12	3.52	1.97	0.62	16	16	0.722	0.722		
264.46006	-0.188 0.980 -0.044	0.476 0.877 -0.055	2095 1318 2717	63.18	-104 -89.68 87.51	23.0 1.02 0.17E 30	8.7 112.1 1.9	0.335 -0.03989	10.55	3.62	1.84	0.63	16	20	0.695	0.868		
264.46076	-0.170 0.983 -0.048	0.483 0.874 -0.058	2058 1327 2666	62.73	-103 -89.54 87.65	23.9 1.03 0.17E 30	8.7 112.2 1.8	0.273 -0.03883	12.48	4.91	2.12	0.83	12	12	0.502	0.502		
264.46145	-0.153 0.986 -0.051	0.490 0.870 -0.061	2021 1336 2619	62.28	-103 -89.40 87.79	24.8 1.04 0.16E 30	8.7 112.2 1.7	0.217 -0.03773	8.37	6.33	1.38	1.04	8	12	0.323	0.484		
264.46215	-0.134 0.989 -0.055	0.497 0.866 -0.063	1985 1346 2570	61.79	-102 -89.27 87.95	25.8 1.06 0.16E 30	8.7 112.3 1.6	0.160 -0.03611	12.06	6.35	1.91	1.01	8	8	0.310	0.310		
264.46284	-0.114 0.990 -0.059	0.504 0.861 -0.066	1949 1355 2516	61.28	-101 -89.15 88.12	26.9 1.07 0.16E 30	8.7 112.3 1.5	0.108 -0.03449	10.50	6.88	1.62	1.06	12	16	0.446	0.595		
264.46354	-0.094 0.992 -0.063	0.512 0.856 -0.069	1913 1365 2467	60.77	-100 -89.02 88.29	28.0 1.09 0.15E 30	8.6 112.3 1.3	0.056 -0.03024	14.58	10.43	2.18	1.56	12	12	0.428	0.428		
264.46423	-0.075 0.994 -0.066	0.520 0.851 -0.071	1878 1375 2422	60.26	-100 -88.90 88.46	29.2 1.10 0.15E 30	8.6 112.3 1.2	0.018 -0.02803	9.66	6.23	1.41	0.91	24	24	0.823	0.823		
264.46493	-0.055 0.995 -0.070	0.527 0.846 -0.074	1842 1384 2372	59.75	-99 -88.77 88.63	30.3 1.11 0.15E 30	8.6 112.4 1.1	-0.015 -0.02540	15.22	12.66	2.15	1.79	12	16	0.395	0.527		
264.46562	-0.034 0.996 -0.074	0.535 0.841 -0.076	1806 1394 2323	59.20	-98 -88.66 88.82	31.6 1.13 0.15E 30	8.6 112.4 0.9	-0.040 -0.02056	18.22	14.95	2.48	2.04	16	20	0.506	0.632		
264.46631	-0.012 0.995 -0.078	0.543 0.835 -0.079	1771 1404 2270	58.61	-97 -88.55 89.03	33.1 1.15 0.14E 30	8.5 112.3 0.8	-0.062 -0.01805	17.16	10.41	2.28	1.38	20	16	0.604	0.483		
264.46701	0.010 0.995 -0.082	0.552 0.829 -0.082	1737 1414 2223	58.02	-96 -88.45 89.24	34.6 1.16 0.14E 30	8.5 112.3 0.6	-0.066 -0.01313	14.46	14.98	1.87	1.93	20	28	0.578	0.808		
264.46770	0.032 0.995 -0.086	0.560 0.824 -0.085	1702 1424 2175	57.44	-94 -88.35 89.44	36.1 1.18 0.14E 30	8.5 112.3 0.4	-0.056 -0.00843	19.01	19.68	2.36	2.45	24	16	0.664	0.443		
264.46840	0.054 0.994 -0.090	0.568 0.818 -0.088	1667 1434 2126	56.85	-93 -88.25 89.65	37.6 1.20 0.13E 30	8.4 112.3 0.3	-0.051 -0.00602	18.32	17.41	2.22	2.11	20	20	0.531	0.531		
264.46909	0.077 0.992 -0.094	0.577 0.811 -0.090	1632 1444 2078	56.22	-92 -88.16 89.88	39.4 1.22 0.13E 30	8.4 112.7 0.1	-0.020 -0.00190	17.15	24.37	2.00	2.85	20	20	0.508	0.508		
264.46979	0.101 0.989 -0.098	0.586 0.804 -0.093	1599 1454 2028	55.54	-90 -88.10 90.13	41.4 1.24 0.13E 30	8.4 112.1 -0.1	0.023 0.00177	15.93	19.09	1.79	2.15	12	12	0.289	0.289		
264.47048	0.125 0.985 -0.102	0.595 0.797 -0.095	1566 1465 1977	54.86	-88 -88.04 90.39	43.4 1.26 0.12E 30	8.4 111.9 -0.2	0.053 0.00327	22.56	23.54	2.45	2.56	12	12	0.276	0.276		
264.47118	0.149 0.981 -0.106	0.605 0.790 -0.098	1532 1475 1928	54.19	-86 -87.97 90.64	45.4 1.28 0.12E 30	8.3 111.8 -0.4	0.117 0.00595	19.78	18.61	2.10	1.97	12	16	0.264	0.353		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	84
264.47187	0.173 0.978 -0.110	0.614 0.783 -0.101	1499 1485 1883	53.51	-84 -87.90 90.89	47.4 1.30 0.12E 30	8.3 111.6 -0.5	0.161 0.00668	17.17	29.65	1.76	3.03	12	20	0.253	0.422		
264.47256	0.198 0.972 -0.114	0.624 0.774 -0.103	1467 1495 1836	52.77	-83 -87.87 91.17	49.7 1.32 0.12E 30	8.3 111.4 -0.7	0.245 0.00817	21.85	25.73	2.16	2.54	12	16	0.241	0.327		
264.47326	0.225 0.965 -0.118	0.635 0.764 -0.106	1436 1505 1788	51.98	-81 -87.86 91.48	52.4 1.35 0.12E 30	8.3 111.1 -0.8	0.303 0.00790	27.45	39.75	2.60	3.77	16	24	0.305	0.459		
264.47395	0.251 0.957 -0.123	0.646 0.754 -0.109	1405 1515 1741	51.19	-79 -87.86 91.78	55.0 1.38 0.11E 30	8.2 110.9 -1.0	0.402 0.00813	25.02	40.07	2.30	3.69	12	28	0.219	0.509		
264.47465	0.278 0.950 -0.127	0.657 0.745 -0.111	1373 1524 1696	50.40	-77 -87.85 92.09	57.7 1.40 0.11E 30	8.2 110.6 -1.2	0.509 0.00774	24.88	34.49	2.21	3.06	24	28	0.416	0.485		
264.47534	0.305 0.943 -0.131	0.668 0.735 -0.114	1342 1534 1655	49.61	-75 -87.85 92.40	60.3 1.43 0.11E 30	8.2 110.3 -1.3	0.576 0.00634	26.09	33.77	2.22	2.88	28	40	0.464	0.663		
264.47604	0.332 0.933 -0.135	0.679 0.724 -0.116	1313 1544 1611	48.75	-74 -87.89 92.73	63.4 1.45 0.11E 30	8.1 110.0 -1.5	0.689 0.00499	24.04	38.27	2.01	3.20	32	32	0.504	0.504		
264.47673	0.359 0.921 -0.139	0.690 0.712 -0.119	1285 1553 1566	47.82	-72 -87.98 93.10	66.9 1.48 0.11E 30	8.1 109.6 -1.7	0.808 0.00308	25.13	43.99	2.02	3.53	40	48	0.598	0.718		
264.47743	0.386 0.909 -0.143	0.701 0.701 -0.122	1258 1563 1522	46.88	-70 -88.07 93.46	70.3 1.51 0.10E 30	8.1 109.2 -1.9	0.926 0.00095	28.94	56.38	2.24	4.36	40	44	0.568	0.626		
264.47812	0.413 0.896 -0.147	0.713 0.689 -0.124	1230 1573 1478	45.95	-68 -88.17 93.83	73.8 1.54 0.10E 30	8.0 108.8 -2.1	1.042 -0.00123	27.83	58.51	2.10	4.41	40	44	0.542	0.596		
264.47881	0.440 0.884 -0.151	0.724 0.677 -0.127	1202 1582 1440	45.02	-66 -88.26 94.20	77.3 1.57 0.10E 30	8.0 108.3 -2.4	1.208 -0.00368	25.14	55.10	1.82	4.00	48	48	0.621	0.621		
264.48020	0.495 0.851 -0.158	0.748 0.648 -0.131	1152 1600 1359	42.92	-65 -88.68 95.02	85.5 1.64 0.98E 29	7.9 107.2 -2.8	1.425 -0.00833	27.91	40.80	1.90	2.77	60	60	0.701	0.701		
264.48368	0.629 0.753 -0.175	0.809 0.568 -0.142	1041 1641 1182	37.19	-64 -90.32 97.22	108.2 1.80 0.90E 29	7.7 103.5 -3.4	1.652 -0.01327	33.25	13.73	1.95	0.81	76	64	0.703	0.591		
264.48437	0.655 0.729 -0.178	0.822 0.549 -0.144	1022 1648 1149	35.92	-65 -90.84 97.69	113.2 1.84 0.89E 29	7.7 102.6 -3.6	1.713 -0.01350	23.46	20.30	1.33	1.15	72	92	0.637	0.813		
264.48506	0.680 0.706 -0.180	0.834 0.530 -0.145	1004 1654 1123	34.66	-66 -91.35 98.16	118.1 1.87 0.88E 29	7.6 101.6 -3.7	1.723 -0.01315	26.53	15.64	1.48	0.87	60	68	0.508	0.575		
264.48576	0.706 0.682 -0.183	0.846 0.511 -0.147	985 1661 1096	33.39	-67 -91.86 98.63	123.1 1.90 0.87E 29	7.6 100.7 -3.8	1.727 -0.01252	28.48	19.15	1.54	1.04	44	52	0.358	0.423		
264.48645	0.730 0.655 -0.186	0.858 0.491 -0.148	970 1667 1069	32.05	-69 -92.58 99.10	128.0 1.93 0.86E 29	7.6 99.5 -3.9	1.728 -0.01182	30.58	20.44	1.61	1.08	64	76	0.500	0.593		
264.48715	0.753 0.625 -0.187	0.869 0.468 -0.149	957 1672 1043	30.62	-73 -93.52 99.57	132.9 1.96 0.85E 29	7.5 98.2 -4.1	1.767 -0.01120	33.01	24.15	1.72	1.26	60	56	0.452	0.422		
264.48784	0.775 0.595 -0.189	0.880 0.444 -0.150	945 1678 1021	29.20	-76 -94.46 100.04	137.8 1.99 0.84E 29	7.5 96.8 -4.2	1.759 -0.01023	36.10	19.52	1.83	0.99	76	76	0.551	0.551		

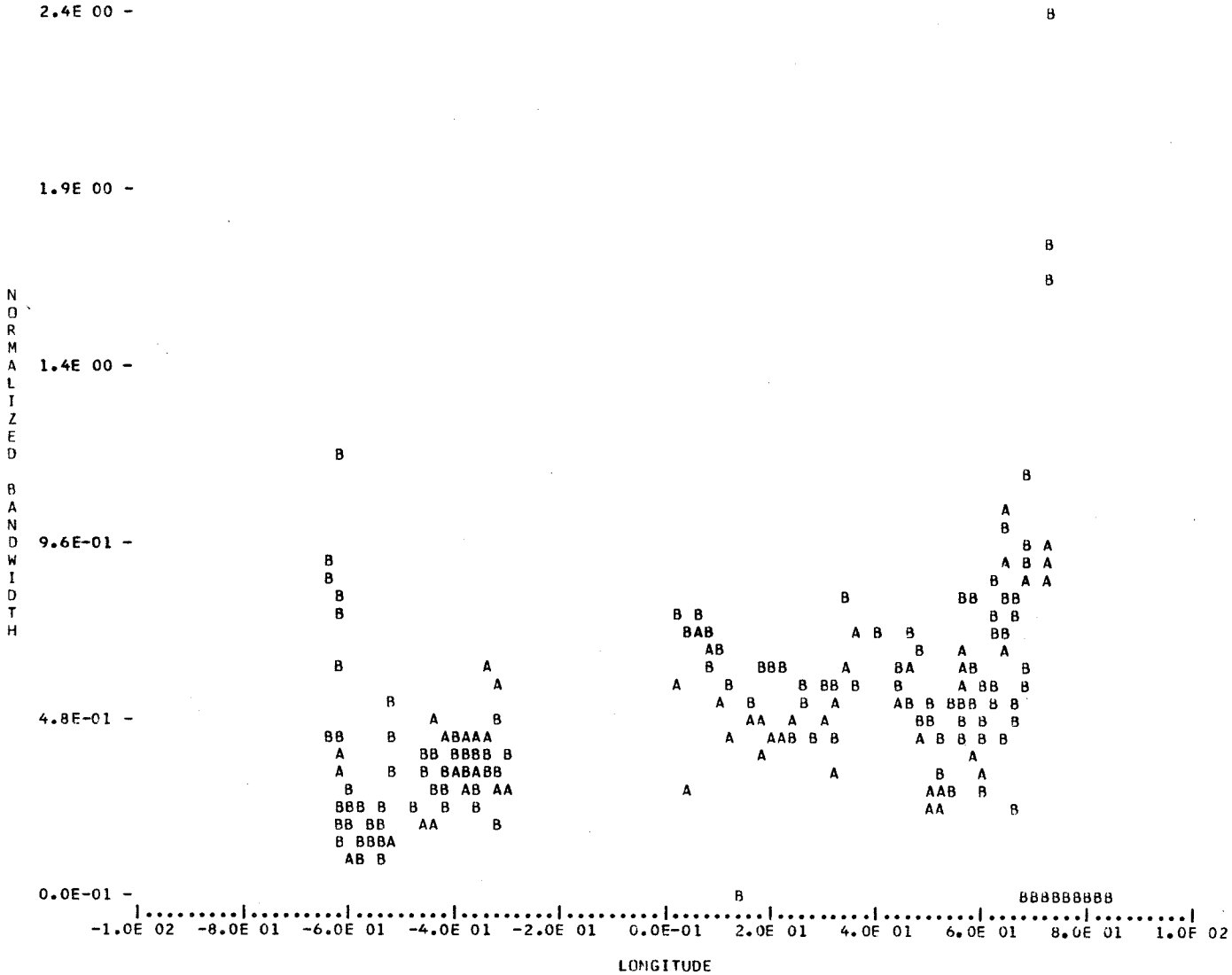
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	R5
264.48854	0.798 0.566 -0.191	0.892 0.421 -0.151	933 1682 1004	27.78	-79 -95.40 100.50	142.7 2.02 0.83E 29	7.5 95.4 -4.2	1.709 -0.00900	29.81	12.02	1.48	0.60	80	76	0.561	0.532		
264.48923	0.821 0.536 -0.192	0.903 0.399 -0.152	920 1687 985	26.35	-83 -96.35 100.97	147.6 2.05 0.82E 29	7.5 94.1 -4.1	1.621 -0.00763	31.90	19.99	1.54	0.97	68	64	0.460	0.434		
264.48993	0.841 0.503 -0.193	0.914 0.373 -0.153	911 1691 968	24.88	-87 -97.69 101.41	152.0 2.07 0.82E 29	7.4 92.3 -4.1	1.575 -0.00657	38.69	18.97	1.87	0.92	64	92	0.422	0.605		
264.49062	0.858 0.468 -0.194	0.923 0.346 -0.153	905 1694 951	23.36	-93 -99.44 101.80	155.7 2.09 0.82E 29	7.4 90.2 -4.1	1.531 -0.00555	28.35	11.90	1.35	0.57	68	96	0.437	0.616		
264.49131	0.876 0.433 -0.194	0.932 0.319 -0.153	900 1696 940	21.84	-100 101.18 102.20	159.4 2.11 0.81E 29	7.4 88.1 -4.1	1.489 -0.00463	24.91	19.75	1.17	0.93	76	100	0.477	0.627		
264.49201	0.893 0.397 -0.194	0.942 0.292 -0.153	894 1698 926	20.32	-106 102.93 102.60	163.1 2.13 0.81E 29	7.4 86.0 -4.0	1.415 -0.00371	36.00	29.13	1.67	1.35	64	100	0.393	0.613		
264.49270	0.910 0.362 -0.195	0.951 0.265 -0.153	888 1701 918	18.80	-112 104.68 103.00	166.9 2.15 0.81E 29	7.4 83.9 -4.0	1.380 -0.00301	45.25	31.04	2.07	1.42	76	84	0.455	0.503		
264.49340	0.924 0.325 -0.194	0.959 0.237 -0.152	886 1702 910	17.31	-118 107.47 103.32	169.5 2.16 0.81E 29	7.4 80.8 -4.0	1.349 -0.00237	33.37	24.26	1.51	1.10	***	***	*****	*****		
264.49409	0.934 0.288 -0.193	0.964 0.208 -0.151	887 1701 904	15.85	-125 111.29 103.58	171.0 2.17 0.81E 29	7.4 76.8 -4.0	1.319 -0.00180	40.63	31.90	1.84	1.44	76	96	0.444	0.561		
264.49479	0.944 0.250 -0.192	0.970 0.180 -0.150	888 1700 898	14.39	-132 115.12 103.83	172.5 2.18 0.81E 29	7.3 72.7 -4.0	1.293 -0.00131	50.73	36.26	2.32	1.66	88	112	0.510	0.650		
264.49548	0.954 0.212 -0.191	0.975 0.152 -0.149	890 1700 897	12.93	-139 118.95 104.09	174.0 2.19 0.81E 29	7.3 68.7 -4.0	1.271 -0.00092	*****	*****	*****	*****	120	124	0.689	0.712		
264.49618	0.964 0.175 -0.190	0.980 0.123 -0.148	891 1699 900	11.47	-146 122.77 104.34	175.6 2.20 0.81E 29	7.3 64.6 -3.9	1.221 -0.00059	*****	*****	*****	*****	116	112	0.661	0.638		
264.49687	0.971 0.137 -0.188	0.984 0.095 -0.147	896 1697 902	10.32	-153 129.95 104.50	175.8 2.20 0.81E 29	7.3 57.3 -3.9	1.204 -0.00030	*****	*****	*****	*****	128	136	0.728	0.774		
264.49756	0.974 0.099 -0.185	0.985 0.066 -0.145	905 1694 906	9.48	-159 140.46 104.57	174.8 2.20 0.82E 29	7.3 46.7 -3.9	1.188 -0.00002	*****	*****	*****	*****	52	128	0.298	0.733		
264.49826	0.976 0.061 -0.183	0.986 0.038 -0.143	913 1691 910	8.63	-165 150.98 104.64	173.7 2.19 0.82E 29	7.3 36.1 -3.9	1.176 0.00017	*****	*****	*****	*****	100	132	0.575	0.760		
264.51493	0.737 -0.668 -0.082	0.870 -0.487 -0.067	1434 1505 1524	27.62	-166 94.61 99.53	89.0 1.75 0.12E 30	7.5 106.3 -4.1	1.574 -0.00618	*****	*****	*****	*****	24	32	0.269	0.359		
264.51562	0.719 -0.687 -0.077	0.862 -0.501 -0.064	1466 1495 1561	28.50	-160 94.03 99.22	85.7 1.72 0.12E 30	7.6 106.0 -4.0	1.563 -0.00661	*****	*****	*****	*****	24	32	0.280	0.374		
264.51631	0.701 -0.706 -0.073	0.854 -0.514 -0.061	1498 1485 1602	29.37	-155 93.46 98.91	82.4 1.70 0.12E 30	7.6 105.8 -3.9	1.550 -0.00702	*****	*****	*****	*****	24	40	0.291	0.485		
264.51701	0.684 -0.725 -0.068	0.847 -0.527 -0.058	1530 1475 1646	30.24	-150 92.89 98.60	79.1 1.68 0.13E 30	7.6 105.5 -3.8	1.539 -0.00748	*****	*****	*****	*****	28	16	0.354	0.202		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	86
264.51770	0.666 -0.741 -0.064	0.839 -0.539 -0.055	1563 1465 1685	31.06	-145 92.42 98.30	76.1 1.66 0.13E 30	7.6 105.3 -3.7	1.526 -0.00789	*****	*****	*****	*****	44	24	0.578	0.315		
264.51840	0.648 -0.756 -0.059	0.832 -0.550 -0.052	1597 1455 1724	31.82	-140 92.06 98.01	73.4 1.64 0.13E 30	7.7 105.2 -3.6	1.509 -0.00822	*****	*****	*****	*****	44	24	0.599	0.327		
264.51909	0.630 -0.771 -0.055	0.825 -0.561 -0.049	1631 1445 1765	32.57	-135 91.70 97.72	70.8 1.62 0.13E 30	7.7 105.1 -3.6	1.535 -0.00879	*****	*****	*****	*****	32	28	0.453	0.395		
264.51979	0.613 -0.787 -0.051	0.818 -0.573 -0.045	1665 1435 1811	33.33	-129 91.34 97.44	68.1 1.60 0.14E 30	7.7 105.0 -3.5	1.518 -0.00913	*****	*****	*****	*****	24	16	0.353	0.235		
264.52048	0.595 -0.801 -0.046	0.811 -0.583 -0.043	1699 1425 1854	34.09	-124 90.98 97.15	65.4 1.58 0.14E 30	7.7 104.9 -3.4	1.501 -0.00948	29.28	53.16	3.00	5.44	20	20	0.306	0.306		
264.52118	0.577 -0.815 -0.042	0.804 -0.593 -0.040	1734 1415 1900	34.80	-119 90.68 96.87	63.0 1.56 0.14E 30	7.8 104.9 -3.3	1.481 -0.00971	40.92	83.61	4.27	8.73	28	24	0.444	0.381		
264.52187	0.560 -0.826 -0.038	0.797 -0.602 -0.037	1769 1405 1940	35.45	-113 90.45 96.61	60.9 1.54 0.14E 30	7.8 104.9 -3.3	1.503 -0.01019	38.53	69.39	4.16	7.49	20	24	0.329	0.394		
264.52256	0.542 -0.838 -0.033	0.790 -0.611 -0.034	1805 1395 1985	36.11	-108 90.22 96.35	58.7 1.52 0.14E 30	7.8 104.9 -3.2	1.480 -0.01036	40.55	71.84	4.52	8.01	24	20	0.408	0.341		
264.52326	0.524 -0.850 -0.029	0.783 -0.621 -0.031	1840 1385 2029	36.77	-103 89.99 96.09	56.6 1.51 0.15E 30	7.8 104.9 -3.1	1.456 -0.01051	37.90	68.60	4.34	7.86	16	20	0.282	0.353		
264.52395	0.507 -0.861 -0.025	0.776 -0.630 -0.028	1875 1375 2073	37.42	-97 89.75 95.83	54.4 1.49 0.15E 30	7.8 104.9 -3.0	1.431 -0.01062	39.03	67.38	4.62	7.98	20	24	0.368	0.441		
264.52465	0.489 -0.871 -0.021	0.770 -0.638 -0.026	1911 1365 2117	38.04	-92 89.56 95.59	52.5 1.47 0.15E 30	7.9 104.9 -3.0	1.453 -0.01105	31.25	63.65	3.78	7.69	20	20	0.381	0.381		
264.52534	0.472 -0.880 -0.017	0.762 -0.646 -0.023	1947 1356 2160	38.61	-87 89.41 95.35	50.8 1.46 0.16E 30	7.9 105.0 -2.9	1.422 -0.01095	27.29	50.54	3.39	6.27	16	20	0.315	0.393		
264.52604	0.454 -0.890 -0.013	0.755 -0.655 -0.020	1984 1346 2207	39.19	-82 89.27 95.12	49.2 1.44 0.16E 30	7.9 105.1 -2.8	1.389 -0.01081	28.04	50.64	3.60	6.50	20	20	0.407	0.407		
264.52673	0.436 -0.899 -0.010	0.748 -0.663 -0.018	2020 1337 2252	39.76	-77 89.12 94.89	47.5 1.43 0.16E 30	7.9 105.1 -2.7	1.358 -0.01073	24.48	57.84	3.22	7.62	12	16	0.252	0.338		
264.52743	0.419 -0.908 -0.006	0.741 -0.671 -0.015	2056 1328 2299	40.33	-72 88.97 94.66	45.8 1.42 0.17E 30	7.9 105.2 -2.6	1.323 -0.01049	27.29	52.58	3.69	7.11	20	12	0.437	0.262		
264.52812	0.402 -0.915 -0.002	0.735 -0.678 -0.013	2092 1318 2341	40.87	-67 88.85 94.44	44.3 1.40 0.17E 30	8.0 105.2 -2.5	1.289 -0.01030	21.17	49.16	2.92	6.78	12	12	0.271	0.271		
264.52881	0.386 -0.922 0.001	0.729 -0.684 -0.010	2129 1309 2387	41.38	-63 88.76 94.23	42.9 1.39 0.18E 30	8.0 105.3 -2.4	1.249 -0.00993	10.84	30.91	1.54	4.38	16	16	0.372	0.372		
264.52951	0.370 -0.928 0.004	0.723 -0.690 -0.008	2166 1301 2431	41.88	-58 88.67 94.02	41.6 1.38 0.18E 30	8.0 105.4 -2.3	1.208 -0.00950	16.31	30.07	2.37	4.37	20	16	0.482	0.384		
264.53020	0.354 -0.934 0.008	0.717 -0.697 -0.006	2203 1291 2474	42.39	-53 88.58 93.82	40.2 1.36 0.18E 30	8.0 105.5 -2.1	1.113 -0.00862	14.89	22.20	2.24	3.34	8	16	0.199	0.398		

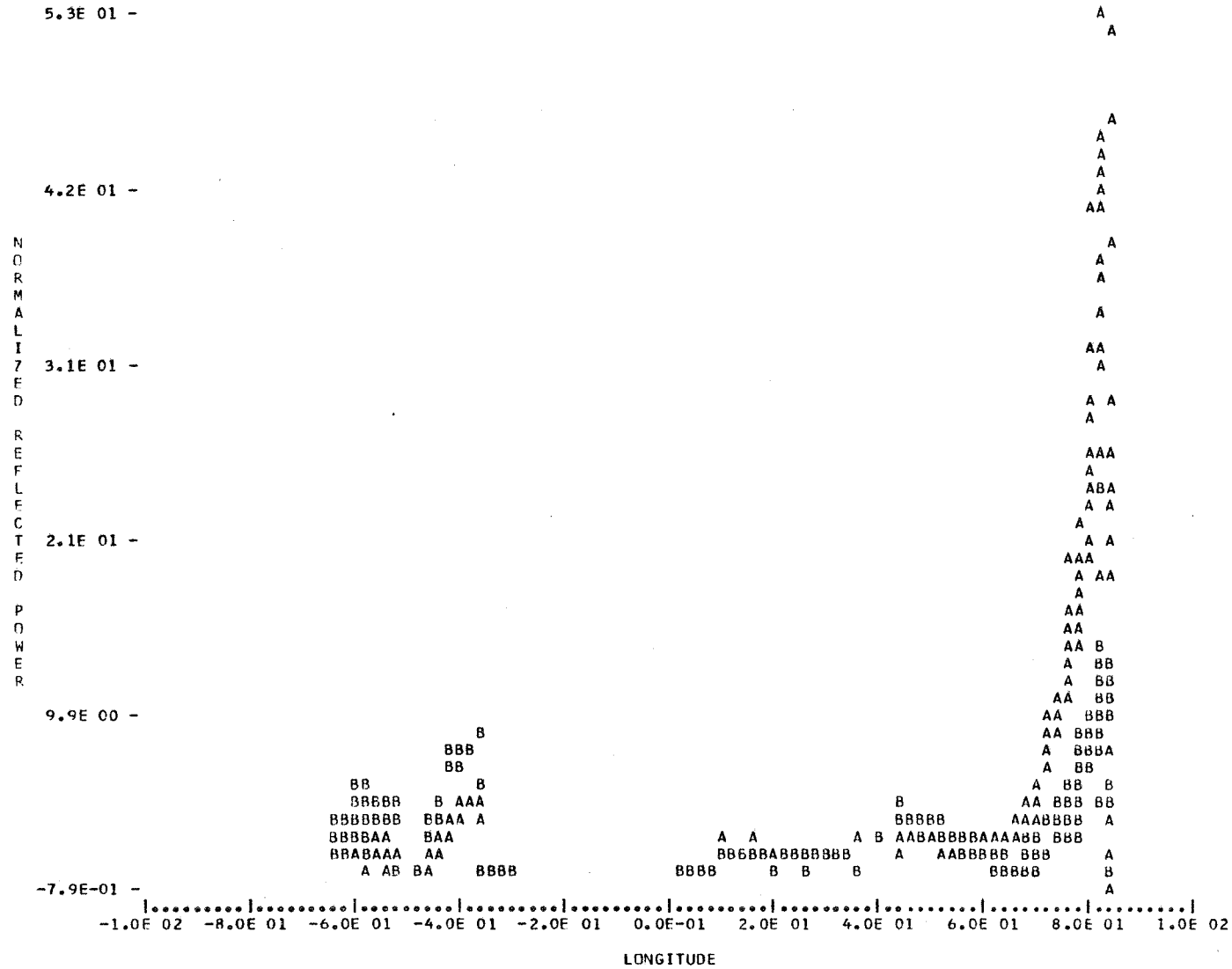
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	PNB	IBWA	IBWB	RWNA	RWNB	PAGE 87
264.53090	0.338 -0.941 0.011	0.711 -0.703 -0.003	2240 1283 2524	42.90	-49 88.49 93.61	38.9 1.35 0.19E 30	8.0 105.6 -2.0	1.069 -0.00809	7.28	22.83	1.12	3.52	8	12	0.205	0.309	
264.53159	0.322 -0.946 0.014	0.705 -0.709 -0.001	2276 1274 2567	43.38	-45 88.42 93.41	37.7 1.34 0.19E 30	8.1 105.7 -1.9	1.022 -0.00752	10.38	21.18	1.62	3.31	8	12	0.213	0.318	
264.53229	0.307 -0.951 0.017	0.700 -0.714 0.001	2313 1265 2613	43.83	-41 88.36 93.23	36.6 1.32 0.19E 30	8.1 105.8 -1.8	0.975 -0.00690	4.97	17.78	0.80	2.88	12	12	0.328	0.328	
264.53298	0.292 -0.956 0.020	0.694 -0.719 0.003	2350 1257 2660	44.28	-37 88.31 93.05	35.5 1.31 0.19E 30	8.1 105.9 -1.7	0.925 -0.00626	7.04	17.03	1.17	2.83	12	12	0.338	0.338	
264.53368	0.277 -0.960 0.023	0.689 -0.724 0.006	2387 1248 2704	44.73	-33 88.26 92.86	34.5 1.31 0.20E 30	8.1 106.0 -1.6	0.875 -0.00558	4.98	12.11	0.84	2.05	12	12	0.348	0.348	
264.53437	0.262 -0.965 0.026	0.684 -0.729 0.008	2424 1239 2753	45.18	-29 88.21 92.68	33.4 1.29 0.20E 30	8.1 106.1 -1.5	0.824 -0.00487	4.51	13.50	0.79	2.36	12	12	0.359	0.359	
264.53506	0.247 -0.968 0.029	0.678 -0.734 0.010	2460 1231 2794	45.61	-25 88.17 92.51	32.4 1.28 0.20E 30	8.1 106.3 -1.4	0.768 -0.00403	*****	*****	*****	*****	8	8	0.246	0.246	
264.53576	0.233 -0.971 0.032	0.673 -0.739 0.012	2497 1223 2836	46.02	-21 88.15 92.34	31.6 1.27 0.21E 30	8.2 106.4 -1.3	0.714 -0.00334	*****	*****	*****	*****	8	8	0.253	0.253	
264.53576	0.233 -0.971 0.032	0.673 -0.739 0.012	2497 1223 2836	46.02	-21 88.15 92.34	31.6 1.27 0.21E 30	8.2 106.4 -1.3	0.714 -0.00334	*****	*****	*****	*****	8	8	0.253	0.253	
264.54340	0.083 -0.994 0.061	0.618 -0.786 0.034	2899 1138 3323	50.09	12 88.07 90.71	23.5 1.18 0.25E 30	8.3 107.7 -0.4	0.205 0.00163	*****	*****	*****	*****	8	8	0.340	0.340	
264.54409	0.071 -0.995 0.063	0.614 -0.789 0.035	2935 1131 3368	50.42	15 88.08 90.58	22.9 1.18 0.25E 30	8.3 107.9 -0.3	0.150 0.00149	*****	*****	*****	*****	8	12	0.348	0.522	
264.54479	0.059 -0.996 0.066	0.609 -0.792 0.037	2971 1124 3413	50.75	17 88.09 90.45	22.4 1.17 0.26E 30	8.4 108.0 -0.2	0.099 0.00117	6.01	13.01	1.43	3.09	8	8	0.358	0.358	
264.54548	0.047 -0.996 0.068	0.605 -0.796 0.039	3007 1361 3453	51.07	47 88.11 90.32	27.0 1.17 0.26E 30	8.4 108.1 -0.2	0.097 0.00135	5.61	18.30	1.36	4.42	4	12	0.148	0.444	
264.54618	0.036 -0.996 0.070	0.601 -0.799 0.041	3042 1843 3493	51.38	104 88.13 90.20	36.8 1.16 0.27E 30	8.4 108.3 -0.1	0.047 0.00077	8.57	19.88	2.12	4.91	8	8	0.217	0.217	
264.54687	0.024 -0.996 0.072	0.596 -0.802 0.043	3078 2325 3536	51.69	161 88.15 90.08	46.6 1.15 0.27E 30	8.4 108.4 0.0	0.000 0.00000	6.30	15.39	1.59	3.89	4	4	0.085	0.085	
264.54756	0.013 -0.997 0.074	0.592 -0.804 0.044	3113 2807 3583	51.99	218 88.18 89.97	56.4 1.14 0.27E 30	8.4 108.5 0.0	0.000 0.00000	2.37	12.85	0.61	3.33	8	8	0.142	0.142	
264.54826	0.002 -0.997 0.076	0.588 -0.807 0.046	3148 3289 3625	52.30	275 88.20 89.85	66.2 1.13 0.28E 30	8.4 108.6 0.1	-0.044 -0.00105	10.08	18.19	2.67	4.82	8	12	0.121	0.181	
264.54895	-0.009 -0.996 0.078	0.584 -0.810 0.048	3183 3528 3663	52.57	300 88.23 89.74	70.5 1.13 0.28E 30	8.4 108.7 0.2	-0.086 -0.00226	9.01	18.24	2.42	4.90	8	8	0.113	0.113	
264.54965	-0.018 -0.995 0.079	0.581 -0.812 0.049	3216 3525 3698	52.81	294 88.28 89.66	69.4 1.12 0.29E 30	8.4 108.8 0.3	-0.126 -0.00362	8.67	16.37	2.38	4.50	8	8	0.115	0.115	

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	RWNA	RWNB	PAGE	89
264.56284	-0.191 -0.967 0.109	0.514 -0.852 0.078	3846 3463 4407	57.36	176 89.11 88.01	47.4 1.05 0.37E 30	8.7 110.6 1.6	-0.265 -0.03819	6.54	6.81	2.35	2.45	4	12	0.084	0.253		
264.56354	-0.200 -0.965 0.111	0.511 -0.854 0.079	3879 3460 4447	57.60	169 89.15 87.92	46.3 1.04 0.37E 30	8.7 110.7 1.6	-0.240 -0.03864	9.46	7.66	3.48	2.81	8	8	0.173	0.173		
264.56423	-0.209 -0.964 0.112	0.507 -0.856 0.081	3912 3456 4491	57.84	163 89.19 87.84	45.1 1.04 0.38E 30	8.7 110.8 1.7	-0.229 -0.04144	7.32	11.53	2.72	4.29	12	8	0.265	0.178		
264.56493	-0.218 -0.963 0.114	0.504 -0.858 0.082	3945 3453 4537	58.07	157 89.24 87.75	44.0 1.04 0.38E 30	8.7 110.9 1.8	-0.216 -0.04417	8.24	9.14	3.10	3.44	8	8	0.181	0.181		
264.56562	-0.227 -0.961 0.115	0.500 -0.860 0.084	3979 3450 4577	58.31	151 89.28 87.66	42.8 1.03 0.39E 30	8.7 111.0 1.8	-0.188 -0.04444	7.95	13.63	3.05	5.24	8	8	0.187	0.187		
264.56631	-0.236 -0.960 0.117	0.497 -0.863 0.085	4012 3447 4623	58.55	145 89.32 87.58	41.7 1.03 0.39E 30	8.7 111.1 1.9	-0.169 -0.04708	10.32	12.48	4.01	4.85	8	12	0.192	0.288		
264.56701	-0.245 -0.958 0.119	0.493 -0.865 0.087	4045 3443 4664	58.79	138 89.37 87.49	40.5 1.02 0.39E 30	8.8 111.2 2.0	-0.148 -0.04963	4.74	8.39	1.86	3.29	8	8	0.197	0.197		
264.56770	-0.254 -0.957 0.120	0.490 -0.867 0.088	4078 3440 4711	59.03	132 89.41 87.40	39.4 1.02 0.40E 30	8.8 111.3 2.0	-0.118 -0.04966	6.36	11.21	2.53	4.45	4	8	0.102	0.203		
264.56840	-0.263 -0.955 0.122	0.486 -0.869 0.090	4111 3437 4754	59.27	126 89.46 87.32	38.2 1.02 0.40E 30	8.8 111.4 2.1	-0.093 -0.05204	4.06	8.83	1.63	3.55	8	8	0.209	0.209		
264.56909	-0.272 -0.954 0.123	0.483 -0.871 0.091	4144 3434 4802	59.51	120 89.50 87.23	37.1 1.01 0.41E 30	8.8 111.5 2.2	-0.065 -0.05432	8.99	12.19	3.69	5.00	4	8	0.108	0.216		
264.56979	-0.281 -0.952 0.124	0.480 -0.873 0.093	4176 3178 4845	59.73	113 89.55 87.16	33.9 1.01 0.41E 30	8.8 111.6 2.2	-0.035 -0.05405	4.21	6.08	1.74	2.52	8	8	0.237	0.237		
264.57048	-0.288 -0.949 0.125	0.477 -0.874 0.094	4207 2671 4878	59.92	105 89.60 87.09	28.6 1.00 0.42E 30	8.8 111.6 2.3	-0.011 -0.05659	5.94	8.99	2.51	3.80	4	4	0.139	0.139		
264.57118	-0.295 -0.947 0.126	0.474 -0.875 0.095	4237 2163 4915	60.12	98 89.66 87.03	23.4 1.00 0.42E 30	8.8 111.7 2.3	0.016 -0.05617	4.76	8.51	2.04	3.64	8	4	0.342	0.172		
264.57187	-0.302 -0.945 0.127	0.471 -0.877 0.096	4267 1655 4951	60.31	90 89.71 86.97	18.1 1.00 0.42E 30	8.8 111.8 2.4	0.044 -0.05806	4.14	7.42	1.79	3.70	8	8	0.441	0.441		
264.57256	-0.309 -0.942 0.128	0.468 -0.878 0.097	4298 1148 4984	60.50	82 89.77 86.90	12.9 0.99 0.43E 30	8.8 111.9 2.4	0.070 -0.05752	5.60	6.99	2.47	3.08	8	8	0.621	0.621		
264.57326	-0.317 -0.940 0.129	0.465 -0.880 0.099	4328 892 5024	60.69	79 89.82 86.85	10.2 0.99 0.43E 30	8.8 112.0 2.5	0.099 -0.05925	5.45	5.68	2.43	2.53	12	8	1.177	0.786		
264.57395	-0.324 -0.937 0.130	0.462 -0.881 0.100	4358 887 5058	60.88	79 89.88 86.79	10.0 0.99 0.44E 30	8.8 112.1 2.5	0.125 -0.05859	7.44	8.05	3.34	3.62	8	8	0.796	0.796		
264.57465	-0.332 -0.934 0.131	0.458 -0.883 0.102	4388 883 5092	61.06	80 89.94 86.73	9.9 0.98 0.44E 30	8.9 112.2 2.6	0.155 -0.06016	2.56	5.90	1.16	2.67	4	12	0.404	1.212		
264.57534	-0.339 -0.931 0.132	0.455 -0.885 0.103	4417 879 5124	61.24	81 90.00 86.67	9.8 0.98 0.44E 30	8.9 112.3 2.6	0.180 -0.05941	4.10	5.76	1.88	2.64	4	4	0.410	0.410		

NORMALIZED BANDWIDTH VS LONGITUDE



NORMALIZED REFLECTED POWER VS LONGITUDE



DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE 93
265.32743	-0.881 0.448 0.151	0.163 0.951 0.261	6073 660 7434	84.03	-37 109.42 83.88	2.6 0.52 0.71E 30	9.3 94.6 4.9	2.009 0.01501	31.65	7.71	42.08	10.24	***	***	*****	*****	
265.32812	-0.879 0.452 0.150	0.165 0.952 0.257	6053 662 7411	83.92	-38 109.19 83.85	2.6 0.52 0.71E 30	9.3 94.8 4.9	2.020 0.01535	33.03	14.12	43.68	18.68	***	***	*****	*****	
265.32881	-0.877 0.456 0.150	0.167 0.953 0.253	6033 664 7388	83.81	-39 108.96 83.82	2.7 0.52 0.71E 30	9.3 95.1 4.9	2.030 0.01566	39.13	16.25	51.48	21.39	***	***	*****	*****	
265.32951	-0.875 0.460 0.149	0.168 0.954 0.250	6014 667 7363	83.70	-39 108.72 83.79	2.7 0.53 0.70E 30	9.3 95.3 5.0	2.082 0.01634	37.18	10.90	47.77	14.01	***	***	*****	*****	
265.33020	-0.873 0.464 0.149	0.170 0.954 0.246	5994 669 7341	83.59	-40 108.50 83.76	2.7 0.53 0.70E 30	9.3 95.5 5.0	2.093 0.01668	54.07	14.51	69.11	18.54	***	***	*****	*****	
265.33090	-0.871 0.468 0.148	0.172 0.955 0.243	5974 672 7317	83.48	-41 108.28 83.74	2.7 0.54 0.69E 30	9.3 95.8 5.0	2.103 0.01699	38.80	8.55	48.42	10.67	***	***	*****	*****	
265.33159	-0.869 0.472 0.147	0.174 0.956 0.239	5954 675 7294	83.37	-42 108.06 83.71	2.7 0.54 0.69E 30	9.3 96.0 5.0	2.113 0.01732	41.65	11.15	51.71	13.85	***	***	*****	*****	
265.33229	-0.867 0.476 0.147	0.175 0.956 0.236	5933 677 7269	83.26	-42 107.84 83.69	2.8 0.54 0.69E 30	9.3 96.2 5.1	2.167 0.01802	48.14	10.95	59.44	13.52	***	***	*****	*****	
265.33298	-0.865 0.480 0.146	0.177 0.957 0.233	5913 680 7246	83.15	-43 107.62 83.66	2.8 0.55 0.68E 30	9.3 96.5 5.1	2.177 0.01833	43.14	15.46	52.03	18.65	***	***	*****	*****	
265.33368	-0.863 0.484 0.146	0.179 0.957 0.229	5892 682 7224	83.03	-44 107.41 83.64	2.8 0.55 0.68E 30	9.3 96.7 5.1	2.188 0.01870	49.72	15.02	59.63	18.01	***	***	*****	*****	
265.33437	-0.861 0.488 0.145	0.180 0.958 0.226	5871 685 7198	82.92	-44 107.20 83.62	2.8 0.56 0.68E 30	9.3 96.9 5.1	2.199 0.01903	32.75	12.91	38.36	15.12	***	***	*****	*****	
265.33506	-0.858 0.492 0.145	0.182 0.958 0.222	5851 688 7170	82.80	-45 106.99 83.59	2.9 0.56 0.67E 30	9.3 97.2 5.1	2.209 0.01935	30.31	10.37	35.32	12.08	***	***	*****	*****	
265.33576	-0.856 0.496 0.144	0.184 0.958 0.219	5829 690 7146	82.69	-46 106.79 83.57	2.9 0.56 0.67E 30	9.3 97.4 5.2	2.263 0.02007	35.73	11.61	41.40	13.45	***	***	*****	*****	
265.33645	-0.854 0.500 0.143	0.185 0.959 0.216	5808 693 7121	82.58	-46 106.58 83.55	2.9 0.57 0.67E 30	9.3 97.6 5.2	2.274 0.02040	25.77	8.47	29.17	9.59	***	***	*****	*****	
265.35937	-0.752 0.648 0.118	0.258 0.958 0.124	5028 794 6196	78.34	-70 100.75 83.16	4.1 0.69 0.54E 30	9.4 103.7 5.5	2.752 0.02935	19.87	9.50	14.78	7.06	***	***	*****	*****	
265.36006	-0.749 0.652 0.117	0.260 0.958 0.122	5002 797 6167	78.20	-71 100.59 83.16	4.2 0.69 0.54E 30	9.4 103.8 5.5	2.762 0.02947	21.50	8.62	15.87	6.36	***	***	*****	*****	
265.36076	-0.745 0.657 0.117	0.262 0.958 0.119	4976 800 6137	78.06	-71 100.44 83.15	4.2 0.69 0.53E 30	9.4 104.0 5.5	2.767 0.02929	24.35	8.23	17.83	6.03	***	***	*****	*****	
265.36145	-0.741 0.661 0.115	0.264 0.958 0.117	4950 804 6102	77.92	-72 100.28 83.15	4.3 0.69 0.53E 30	9.4 104.1 5.5	2.777 0.02935	32.63	12.27	23.71	8.92	***	***	*****	*****	
265.36215	-0.737 0.666 0.114	0.266 0.957 0.115	4923 807 6071	77.77	-72 100.13 83.15	4.3 0.70 0.52E 30	9.4 104.3 5.5	2.783 0.02912	37.73	15.86	26.81	11.27	***	***	*****	*****	

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	94
265.36284	-0.733 0.670 0.113	0.268 0.957 0.112	4896 811 6036	77.62	-73 -99.98 83.16	4.4 0.70 0.52E 30	9.4 104.4 5.5	2.793 0.02914	33.47	15.53	23.59	10.94	***	***	*****	*****		
265.36354	-0.729 0.675 0.112	0.271 0.957 0.110	4869 815 6007	77.47	-74 -99.83 83.16	4.4 0.70 0.52E 30	9.4 104.6 5.5	2.797 0.02883	32.08	11.09	22.43	7.75	***	***	*****	*****		
265.36423	-0.725 0.680 0.111	0.273 0.956 0.108	4842 818 5976	77.32	-74 -99.68 83.16	4.5 0.71 0.51E 30	9.4 104.7 5.5	2.806 0.02878	35.37	13.40	24.18	9.16	***	***	*****	*****		
265.36493	-0.721 0.684 0.110	0.275 0.956 0.106	4815 822 5942	77.17	-75 -99.53 83.16	4.6 0.71 0.51E 30	9.4 104.9 5.5	2.809 0.02838	24.71	8.01	16.75	5.43	***	***	*****	*****		
265.36562	-0.717 0.689 0.109	0.278 0.955 0.103	4788 826 5914	77.02	-76 -99.38 83.16	4.6 0.71 0.50E 30	9.4 105.0 5.5	2.818 0.02826	27.22	13.75	18.30	9.25	***	***	*****	*****		
265.36631	-0.712 0.693 0.109	0.280 0.954 0.101	4760 830 5876	76.86	-77 -99.23 83.17	4.7 0.71 0.49E 30	9.4 105.2 5.5	2.820 0.02777	15.65	5.49	10.43	3.66	***	***	*****	*****		
265.36770	-0.704 0.703 0.106	0.285 0.953 0.096	4705 838 5817	76.56	-78 -98.93 83.18	4.8 0.72 0.48E 30	9.4 105.5 5.5	2.828 0.02696	30.61	11.08	19.78	7.16	***	***	*****	*****		
265.36840	-0.700 0.707 0.105	0.287 0.953 0.094	4677 842 5783	76.40	-79 -98.79 83.18	4.9 0.72 0.48E 30	9.4 105.6 5.5	2.835 0.02668	28.43	11.34	18.22	7.26	***	***	*****	*****		
265.36909	-0.695 0.712 0.104	0.290 0.952 0.092	4648 846 5749	76.24	-79 -98.64 83.19	5.0 0.73 0.47E 30	9.4 105.7 5.5	2.842 0.02636	24.45	7.35	15.31	4.60	***	***	*****	*****		
265.36979	-0.690 0.717 0.103	0.292 0.952 0.089	4620 850 5713	76.07	-80 -98.50 83.20	5.1 0.73 0.47E 30	9.4 105.9 5.5	2.842 0.02559	19.71	9.47	12.24	5.88	***	***	*****	*****		
265.37048	-0.685 0.721 0.102	0.294 0.952 0.087	4592 854 5675	75.91	-81 -98.35 83.21	5.1 0.73 0.47E 30	9.4 106.0 5.5	2.847 0.02516	27.93	9.62	17.19	5.92	***	***	*****	*****		
265.37118	-0.680 0.726 0.101	0.297 0.951 0.085	4563 858 5641	75.75	-81 -98.21 83.21	5.2 0.74 0.46E 30	9.4 106.2 5.5	2.844 0.02428	25.68	7.12	15.45	4.28	***	***	*****	*****		
265.37256	-0.670 0.736 0.098	0.303 0.949 0.081	4505 866 5575	75.42	-82 -97.92 83.23	5.4 0.75 0.45E 30	9.4 106.4 5.5	2.853 0.02315	29.18	8.49	17.00	4.95	***	***	*****	*****		
265.37326	-0.664 0.741 0.097	0.306 0.948 0.079	4476 871 5537	75.25	-83 -97.78 83.24	5.4 0.75 0.45E 30	9.4 106.6 5.4	2.796 0.02171	27.59	6.14	15.92	3.55	***	***	*****	*****		
265.37395	-0.658 0.746 0.096	0.310 0.947 0.077	4447 875 5501	75.08	-84 -97.64 83.25	5.5 0.75 0.45E 30	9.4 106.7 5.4	2.799 0.02100	27.40	10.50	15.66	6.01	***	***	*****	*****		
265.37465	-0.653 0.751 0.095	0.313 0.946 0.075	4418 879 5469	74.91	-84 -97.50 83.26	5.6 0.76 0.44E 30	9.4 106.8 5.4	2.801 0.02024	27.96	7.97	15.63	4.46	***	***	*****	*****		
265.37534	-0.647 0.756 0.093	0.316 0.946 0.073	4388 883 5430	74.74	-85 -97.36 83.28	5.7 0.76 0.44E 30	9.4 107.0 5.4	2.793 0.01898	29.01	6.64	16.06	3.67	***	***	*****	*****		
265.37604	-0.642 0.761 0.092	0.319 0.945 0.071	4358 888 5398	74.57	-85 -97.22 83.29	5.8 0.76 0.43E 30	9.4 107.1 5.4	2.794 0.01809	21.25	6.54	11.65	3.59	***	***	*****	*****		
265.37673	-0.637 0.765 0.091	0.321 0.944 0.068	4328 892 5361	74.39	-86 -97.08 83.31	5.9 0.76 0.43E 30	9.4 107.2 5.4	2.794 0.01711	20.51	5.98	11.13	3.24	***	***	*****	*****		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	95
265.37743	-0.631 0.770 0.090	0.324 0.943 0.066	4298 896 5324	74.21	-87 -96.94 83.32	6.0 0.77 0.43E 30	9.4 107.4 5.4	2.783 0.01560	27.50	10.89	14.59	5.78	***	***	*****	*****		
265.37812	-0.626 0.775 0.089	0.327 0.942 0.064	4268 901 5293	74.04	-87 -96.80 83.34	6.1 0.77 0.42E 30	9.4 107.5 5.4	2.781 0.01452	24.20	8.91	12.71	4.68	***	***	*****	*****		
265.37881	-0.620 0.779 0.087	0.329 0.942 0.062	4238 905 5251	73.86	-88 -96.66 83.35	6.2 0.77 0.42E 30	9.4 107.6 5.3	2.727 0.01316	17.28	7.14	8.98	3.71	***	***	*****	*****		
265.37951	-0.614 0.784 0.086	0.332 0.941 0.060	4207 910 5214	73.67	-88 -96.53 83.37	6.3 0.78 0.41E 30	9.4 107.7 5.3	2.724 0.01188	13.63	6.07	6.92	3.09	***	***	*****	*****		
265.38020	-0.608 0.789 0.084	0.335 0.940 0.058	4177 915 5179	73.49	-89 -96.39 83.39	6.4 0.78 0.41E 30	9.4 107.9 5.3	2.708 0.01011	25.60	9.48	12.88	4.77	***	***	*****	*****		
265.38090	-0.602 0.794 0.083	0.339 0.939 0.056	4146 920 5144	73.31	-89 -96.25 83.41	6.6 0.78 0.41E 30	9.4 108.0 5.3	2.703 0.00874	22.54	9.17	11.21	4.56	***	***	*****	*****		
265.38159	-0.596 0.799 0.082	0.342 0.938 0.054	4115 925 5109	73.12	-89 -96.12 83.43	6.7 0.79 0.40E 30	9.4 108.1 5.3	2.696 0.00724	20.89	6.71	10.15	3.26	***	***	*****	*****		
265.38229	-0.590 0.803 0.080	0.344 0.938 0.052	4084 929 5067	72.93	-90 -95.98 83.45	6.8 0.79 0.40E 30	9.3 108.2 5.3	2.689 0.00566	19.09	6.17	9.28	3.00	***	***	*****	*****		
265.38298	-0.583 0.808 0.079	0.347 0.936 0.050	4053 934 5029	72.74	-90 -95.84 83.48	6.9 0.80 0.39E 30	9.3 108.4 5.2	2.619 0.00358	21.47	8.39	10.20	3.99	***	***	*****	*****		
265.38368	-0.577 0.813 0.077	0.350 0.935 0.047	4022 940 4994	72.54	-91 -95.71 83.50	7.0 0.80 0.39E 30	9.3 108.5 5.2	2.609 0.00182	20.80	5.88	9.77	2.76	***	***	*****	*****		
265.38437	-0.571 0.817 0.076	0.353 0.934 0.045	3990 944 4955	72.34	-92 -95.57 83.52	7.2 0.80 0.39E 30	9.3 108.6 5.2	2.598 -0.00002	17.40	5.22	8.09	2.42	***	***	*****	*****		
265.38506	-0.564 0.822 0.075	0.357 0.933 0.043	3959 950 4919	72.15	-92 -95.44 83.55	7.3 0.81 0.38E 30	9.3 108.7 5.2	2.586 -0.00186	19.43	7.36	8.82	3.34	***	***	*****	*****		
265.38576	-0.557 0.826 0.073	0.360 0.932 0.041	3927 955 4876	71.95	-93 -95.30 83.57	7.5 0.81 0.38E 30	9.3 108.9 5.2	2.560 -0.00429	13.54	6.70	6.08	3.01	***	***	*****	*****		
265.38645	-0.550 0.831 0.072	0.362 0.931 0.039	3895 960 4836	71.74	-93 -95.17 83.60	7.6 0.82 0.37E 30	9.3 109.0 5.1	2.497 -0.00619	15.83	5.94	6.94	2.60	***	***	*****	*****		
265.38715	-0.543 0.836 0.070	0.366 0.930 0.037	3862 965 4798	71.53	-94 -95.03 83.63	7.8 0.82 0.37E 30	9.3 109.1 5.1	2.480 -0.00837	14.90	5.94	6.46	2.58	***	***	*****	*****		
265.38784	-0.536 0.841 0.068	0.369 0.929 0.035	3830 970 4760	71.33	-94 -94.90 83.66	7.9 0.82 0.37E 30	9.3 109.2 5.1	2.463 -0.01053	16.63	5.22	7.12	2.23	***	***	*****	*****		
265.38854	-0.529 0.846 0.067	0.372 0.928 0.033	3798 975 4723	71.12	-94 -94.77 83.69	8.1 0.83 0.36E 30	9.3 109.3 5.1	2.444 -0.01286	16.59	6.17	6.94	2.58	***	***	*****	*****		
265.38923	-0.522 0.851 0.065	0.375 0.926 0.031	3765 981 4686	70.91	-95 -94.63 83.72	8.2 0.83 0.36E 30	9.3 109.4 5.0	2.377 -0.01483	17.66	6.94	7.30	2.87	***	***	*****	*****		
265.38993	-0.513 0.856 0.064	0.379 0.925 0.029	3732 986 4642	70.69	-95 -94.50 83.76	8.4 0.84 0.35E 30	9.3 109.5 5.0	2.355 -0.01734	20.96	6.62	8.46	2.67	***	***	*****	*****		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	96
265.39062	-0.505 0.861 0.062	0.383 0.923 0.027	3699 992 4603	70.47	-95 -94.37 83.79	8.6 0.84 0.35E 30	9.3 109.7 5.0	2.319 -0.02025	19.54	6.01	7.79	2.39	***	***	*****	*****		
265.39131	-0.457 0.865 0.060	0.387 0.921 0.025	3667 997 4562	70.26	-95 -94.24 83.83	8.8 0.84 0.35E 30	9.3 109.8 4.9	2.249 -0.02219	20.30	6.76	8.00	2.66	***	***	*****	*****		
265.39201	-0.488 0.870 0.059	0.391 0.920 0.023	3634 1002 4520	70.04	-95 -94.10 83.86	8.9 0.85 0.34E 30	9.3 109.9 4.9	2.223 -0.02481	20.11	5.54	7.74	2.13	***	***	*****	*****		
265.39270	-0.480 0.875 0.057	0.395 0.918 0.021	3600 1008 4481	69.81	-96 -93.97 83.90	9.1 0.85 0.34E 30	9.3 110.0 4.9	2.194 -0.02759	21.35	7.65	8.11	2.91	8	8	0.878	0.878		
265.39340	-0.471 0.880 0.055	0.398 0.917 0.019	3567 1014 4438	69.58	-96 -93.84 83.94	9.3 0.86 0.33E 30	9.3 110.1 4.8	2.121 -0.02969	23.39	7.47	8.67	2.77	8	8	0.858	0.858		
265.39409	-0.463 0.885 0.053	0.402 0.915 0.017	3533 1020 4401	69.35	-97 -93.71 83.99	9.5 0.86 0.33E 30	9.3 110.2 4.8	2.090 -0.03250	23.88	6.53	8.74	2.39	8	8	0.840	0.840		
265.39479	-0.455 0.889 0.052	0.406 0.914 0.015	3499 1026 4360	69.12	-97 -93.58 84.03	9.7 0.86 0.33E 30	9.3 110.3 4.8	2.057 -0.03536	22.99	8.91	8.31	3.22	8	8	0.820	0.820		
265.39548	-0.446 0.894 0.050	0.409 0.913 0.013	3466 1032 4318	68.89	-97 -93.45 84.07	9.9 0.87 0.32E 30	9.2 110.4 4.7	1.982 -0.03733	18.01	3.70	6.42	1.32	4	4	0.402	0.402		
265.39618	-0.437 0.898 0.048	0.413 0.911 0.011	3432 1038 4275	68.64	-97 -93.31 84.11	10.2 0.87 0.32E 30	9.2 110.5 4.7	1.944 -0.04041	22.07	4.92	7.77	1.73	8	8	0.786	0.786		
265.39687	-0.428 0.902 0.046	0.417 0.909 0.009	3397 1044 4231	68.39	-97 -93.18 84.16	10.4 0.88 0.31E 30	9.2 110.6 4.6	1.866 -0.04248	24.82	9.69	8.52	3.33	8	8	0.768	0.768		
265.39756	-0.419 0.906 0.044	0.420 0.907 0.007	3363 1050 4188	68.14	-98 -93.05 84.21	10.7 0.88 0.30E 30	9.2 110.7 4.6	1.825 -0.04552	27.39	5.73	9.28	1.94	8	8	0.751	0.751		
265.39826	-0.410 0.911 0.042	0.424 0.906 0.005	3329 1056 4149	67.89	-97 -92.92 84.26	10.9 0.89 0.30E 30	9.2 110.8 4.5	1.746 -0.04741	14.80	3.29	4.89	1.09	8	8	0.733	0.733		
265.39895	-0.401 0.915 0.040	0.428 0.904 0.003	3294 1062 4107	67.64	-97 -92.79 84.31	11.2 0.90 0.29E 30	9.2 110.9 4.5	1.703 -0.05037	16.47	5.53	5.31	1.78	8	4	0.717	0.359		
265.39965	-0.391 0.919 0.038	0.432 0.902 0.001	3260 1068 4063	67.39	-97 -92.66 84.37	11.4 0.90 0.29E 30	9.2 111.0 4.5	1.659 -0.05329	15.78	7.02	5.02	2.23	8	4	0.700	0.351		
265.40034	-0.381 0.923 0.036	0.436 0.900 -0.001	3224 1075 4018	67.12	-97 -92.53 84.42	11.7 0.91 0.28E 30	9.2 111.1 4.4	1.576 -0.05511	11.70	3.13	3.63	0.97	8	4	0.682	0.341		
265.40104	-0.371 0.928 0.033	0.440 0.898 -0.003	3189 1082 3977	66.85	-97 -92.40 84.48	12.0 0.91 0.28E 30	9.2 111.2 4.4	1.527 -0.05813	15.74	6.49	4.81	1.98	8	12	0.665	0.999		
265.40173	-0.361 0.932 0.031	0.443 0.896 -0.005	3154 1088 3933	66.58	-97 -92.27 84.54	12.3 0.91 0.28E 30	9.2 111.3 4.3	1.443 -0.05965	16.10	4.60	4.85	1.39	8	8	0.650	0.650		
265.40243	-0.351 0.936 0.029	0.447 0.894 -0.007	3119 1095 3891	66.31	-97 -92.14 84.60	12.6 0.92 0.27E 30	9.2 111.4 4.3	1.392 -0.06247	14.69	5.28	4.31	1.55	8	8	0.635	0.635		
265.40312	-0.340 0.940 0.027	0.451 0.892 -0.009	3084 1102 3846	66.04	-97 -92.01 84.66	12.9 0.92 0.27E 30	9.2 111.5 4.2	1.309 -0.06366	14.76	5.04	4.27	1.46	8	12	0.620	0.930		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE 97
265.40381	-0.329 0.944	0.456 0.890	3049 1109	65.75	-97 -91.89	13.3 0.93	9.1 111.6	1.224 -0.06486	14.21	2.92	4.05	0.83	4	12	0.301	0.904	
265.40451	0.025 -0.318 0.947 0.022	-0.011 0.460 0.887	3802 3013 1116 3755	65.46	84.73 -97 -91.76 84.80	0.26E 30 13.6 0.93	4.1 9.1 111.7	-0.06747 1.168	13.88	3.93	3.90	1.11	12	12	0.880	0.880	
265.40520	-0.308 0.951 0.020	0.464 0.885	2977 1122 3714	65.17	-96 -91.63 84.87	14.0 0.94	9.1 111.7	1.092 -0.06861	16.19	1.55	4.43	0.42	8	12	0.573	0.859	
265.40590	-0.297 0.955 0.018	0.469 0.883	2942 1129 3673	64.88	-96 -91.50 84.93	14.3 0.95	9.1 111.8	1.034 -0.07093	14.97	3.59	4.00	0.96	8	4	0.559	0.279	
265.40659	-0.285 0.959 0.016	0.474 0.881	2906 1137 3628	64.58	-95 -91.38 85.01	14.7 0.95	9.1 111.9	0.950 -0.07139	14.57	4.36	3.83	1.15	8	8	0.543	0.543	
265.40729	-0.272 0.962 0.013	0.479 0.877	2870 1144 3581	64.27	-95 -91.25 85.09	15.1 0.96	9.1 112.0	0.865 -0.07166	12.40	0.60	3.18	0.15	12	4	0.793	0.264	
265.40798	-0.258 0.965 0.010	0.484 0.874	2834 1151 3530	63.95	-95 -91.12 85.17	15.6 0.97	9.1 112.1	0.802 -0.07363	16.93	4.66	4.22	1.16	12	8	0.770	0.514	
265.40868	-0.246 0.969 0.008	0.489 0.872	2798 1158 3488	63.63	-94 -91.00 85.25	16.0 0.98	9.1 112.2	0.719 -0.07346	13.93	2.47	3.39	0.60	8	12	0.500	0.750	
265.40937	-0.233 0.972 0.005	0.494 0.869	2762 1165 3441	63.32	-94 -90.87 85.33	16.4 0.99	9.1 112.2	0.645 -0.07345	13.90	1.02	3.29	0.24	12	8	0.730	0.486	
265.41006	-0.219 0.975 0.003	0.499 0.866	2726 1173 3393	62.99	-93 -90.75 85.42	16.9 0.99	9.0 112.3	0.581 -0.07480	15.73	4.47	3.71	1.05	16	12	0.946	0.710	
265.41076	-0.206 0.978 0.000	0.504 0.863	2689 1181 3348	62.64	-92 -90.63 85.51	17.4 1.00	9.0 112.4	0.498 -0.07397	14.68	3.58	3.37	0.82	12	12	0.688	0.688	
265.41145	-0.192 0.980 -0.003	0.509 0.859	2653 1189 3299	62.30	-92 -90.50 85.61	18.0 1.01	9.0 112.4	0.425 -0.07335	15.31	2.26	3.42	0.51	12	16	0.668	0.891	
265.41215	-0.179 0.983 -0.006	0.515 0.856	2617 1196 3257	61.96	-91 -90.38 85.70	18.5 1.01	9.0 112.5	0.361 -0.07400	13.12	3.33	2.89	0.73	8	4	0.432	0.216	
265.41284	-0.166 0.986 -0.009	0.520 0.853	2580 1204 3214	61.61	-90 -90.26 85.80	19.0 1.02	9.0 112.6	0.286 -0.07232	6.67	0.99	1.43	0.21	12	12	0.631	0.631	
265.41354	-0.152 0.988 -0.011	0.525 0.850	2544 1212 3166	61.25	-89 -90.14 85.90	19.6 1.02	9.0 112.6	0.217 -0.07095	6.86	3.61	1.44	0.76	12	8	0.613	0.408	
265.41423	-0.137 0.990 -0.014	0.530 0.847	2507 1220 3117	60.87	-88 -90.02 86.01	20.3 1.03	9.0 112.7	0.145 -0.06878	9.46	2.12	1.94	0.43	16	20	0.789	0.987	
265.41493	-0.122 0.991 -0.017	0.535 0.843	2471 1229 3067	60.49	-87 -89.90 86.13	20.9 1.05	8.9 112.7	0.079 -0.06689	6.61	2.65	1.32	0.53	12	8	0.574	0.382	
265.41562	-0.107 0.993 -0.021	0.541 0.839	2434 1237 3022	60.10	-86 -89.78 86.24	21.6 1.05	8.9 112.8	0.016 -0.06422	8.20	1.57	1.61	0.31	12	12	0.556	0.556	
265.41631	-0.092 0.995 -0.024	0.546 0.836	2397 1245 2975	59.72	-85 -89.66 86.35	22.2 1.06	8.9 112.8	-0.042 -0.06185	6.82	2.22	1.30	0.42	12	12	0.539	0.539	

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	RWNA	BWNB	PAGE	98
265.41701	-0.077 0.996 -0.027	0.552 0.832 -0.051	2361 1253 2929	59.32	-84 -89.55 86.47	23.0 1.07 0.20E 30	8.9 112.9 2.8	-0.101 -0.06089	3.79	2.24	0.70	0.42	12	12	0.522	0.522		
265.41770	-0.060 0.997 -0.030	0.558 0.828 -0.053	2324 1262 2879	58.89	-82 -89.44 86.61	23.8 1.08 0.19E 30	8.9 112.9 2.6	-0.152 -0.05594	8.97	0.84	1.62	0.15	8	4	0.336	0.168		
265.41840	-0.044 0.998 -0.033	0.564 0.824 -0.056	2287 1271 2832	58.47	-80 -89.32 86.74	24.6 1.09 0.19E 30	8.9 112.9 2.5	-0.201 -0.05295	8.12	3.34	1.43	0.59	8	8	0.324	0.324		
265.41909	-0.028 0.998 -0.036	0.569 0.820 -0.058	2251 1280 2783	58.05	-79 -89.21 86.87	25.5 1.11 0.19E 30	8.8 113.0 2.4	-0.242 -0.04943	8.01	3.13	1.38	0.54	16	8	0.628	0.315		
265.41979	-0.011 0.999 -0.039	0.575 0.816 -0.060	2214 1289 2737	57.62	-77 -89.10 87.01	26.3 1.11 0.18E 30	8.8 113.0 2.3	-0.281 -0.04621	2.97	3.90	0.50	0.66	12	12	0.456	0.456		
265.42048	0.006 0.999 -0.043	0.581 0.811 -0.062	2178 1298 2691	57.17	-76 -89.00 87.15	27.2 1.13 0.18E 30	8.8 113.0 2.2	-0.317 -0.04286	5.74	6.60	0.93	1.07	8	8	0.294	0.294		
265.42118	0.024 0.998 -0.046	0.588 0.806 -0.064	2141 1307 2640	56.70	-74 -88.90 87.31	28.3 1.14 0.17E 30	8.8 113.0 2.1	-0.349 -0.03941	4.49	4.56	0.71	0.72	8	8	0.283	0.283		
265.42187	0.042 0.997 -0.050	0.595 0.801 -0.067	2105 1316 2592	56.22	-72 -88.80 87.47	29.3 1.16 0.17E 30	8.8 113.0 2.0	-0.375 -0.03593	3.37	3.19	0.51	0.49	8	8	0.273	0.273		
265.42256	0.059 0.996 -0.053	0.601 0.796 -0.069	2069 1324 2545	55.75	-70 -88.70 87.63	30.4 1.17 0.17E 30	8.7 113.0 1.8	-0.374 -0.03084	3.17	3.22	0.48	0.48	8	4	0.263	0.132		
265.42326	0.077 0.995 -0.056	0.608 0.792 -0.071	2032 1333 2497	55.28	-68 -88.60 87.79	31.4 1.18 0.16E 30	8.7 113.0 1.7	-0.387 -0.02762	4.85	5.93	0.71	0.87	4	4	0.127	0.127		
265.42395	0.096 0.993 -0.060	0.615 0.786 -0.073	1996 1343 2449	54.77	-66 -88.51 87.96	32.6 1.20 0.16E 30	8.7 113.0 1.6	-0.396 -0.02441	*****	*****	*****	*****	16	16	0.490	0.490		
265.42465	0.117 0.990 -0.063	0.622 0.779 -0.076	1960 1352 2399	54.23	-64 -88.43 88.15	34.0 1.21 0.16E 30	8.7 113.0 1.4	-0.374 -0.01985	*****	*****	*****	*****	16	16	0.471	0.471		
265.42534	0.137 0.987 -0.067	0.630 0.772 -0.078	1925 1362 2352	53.69	-62 -88.35 88.35	35.4 1.22 0.15E 30	8.6 112.9 1.3	-0.374 -0.01709	*****	*****	*****	*****	20	12	0.566	0.340		
265.42604	0.157 0.984 -0.071	0.638 0.766 -0.080	1889 1372 2305	53.15	-59 -88.26 88.54	36.7 1.24 0.15E 30	8.6 112.9 1.1	-0.335 -0.01325	*****	*****	*****	*****	8	8	0.217	0.217		
265.42673	0.178 0.981 -0.074	0.645 0.759 -0.083	1853 1381 2259	52.61	-57 -88.18 88.73	38.1 1.25 0.15E 30	8.6 112.9 1.0	-0.320 -0.01097	*****	*****	*****	*****	12	8	0.315	0.210		
265.42743	0.198 0.976 -0.078	0.653 0.752 -0.085	1818 1391 2210	52.03	-54 -88.12 88.94	39.6 1.27 0.15E 30	8.5 112.8 0.8	-0.270 -0.00789	*****	*****	*****	*****	8	16	0.202	0.404		
265.42812	0.219 0.971 -0.082	0.661 0.745 -0.088	1783 1401 2162	51.41	-51 -88.07 89.16	41.4 1.29 0.15E 30	8.5 112.7 0.7	-0.248 -0.00610	*****	*****	*****	*****	4	8	0.096	0.193		
265.42812	0.219 0.971 -0.082	0.661 0.745 -0.088	1783 1401 2162	51.41	-51 -88.07 89.16	41.4 1.29 0.15E 30	8.5 112.7 0.7	-0.248 -0.00610	*****	*****	*****	*****	16	12	0.387	0.289		
265.42881	0.240 0.965 -0.086	0.668 0.738 -0.090	1749 1411 2112	50.79	-49 -88.01 89.39	43.2 1.31 0.14E 30	8.5 112.7 0.5	-0.184 -0.00380	*****	*****	*****	*****	8	24	0.185	0.556		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE	99
265.42951	0.262 0.959 -0.090	0.676 0.731 -0.092	1714 1420 2063	50.17	-46 -87.96 89.62	44.9 1.32 0.14E 30	8.5 112.6 0.3	-0.114 -0.00196	*****	*****	*****	*****	20	20	0.446	0.446		
265.43020	0.283 0.954 -0.094	0.684 0.724 -0.095	1679 1430 2020	49.55	-43 -87.91 89.85	46.7 1.34 0.14E 30	8.4 112.5 0.1	-0.039 -0.00056	*****	*****	*****	*****	32	24	0.685	0.514		
265.43090	0.304 0.947 -0.098	0.692 0.715 -0.097	1645 1440 1975	48.88	-40 -87.88 90.10	48.7 1.36 0.14E 30	8.4 112.3 -0.1	0.041 0.00045	*****	*****	*****	*****	32	24	0.657	0.492		
265.43159	0.327 0.938 -0.102	0.701 0.706 -0.100	1612 1450 1927	48.17	-37 -87.88 90.38	51.1 1.38 0.13E 30	8.4 112.1 -0.2	0.084 0.00071	*****	*****	*****	*****	40	32	0.783	0.627		
265.43229	0.349 0.929 -0.106	0.709 0.697 -0.102	1579 1460 1880	47.45	-33 -87.88 90.65	53.4 1.41 0.13E 30	8.3 111.8 -0.4	0.172 0.00103	*****	*****	*****	*****	40	32	0.750	0.599		
265.43298	0.371 0.920 -0.110	0.717 0.688 -0.104	1546 1470 1835	46.73	-30 -87.87 90.93	55.7 1.43 0.13E 30	8.3 111.6 -0.5	0.219 0.00087	*****	*****	*****	*****	56	60	1.007	1.077		
265.43368	0.394 0.911 -0.114	0.726 0.679 -0.107	1513 1480 1791	46.02	-27 -87.87 91.21	58.0 1.45 0.12E 30	8.3 111.4 -0.7	0.311 0.00070	*****	*****	*****	*****	52	56	0.897	0.966		
265.43437	0.417 0.900 -0.118	0.735 0.668 -0.109	1481 1490 1748	45.24	-24 -87.91 91.51	60.6 1.47 0.12E 30	8.2 111.1 -0.8	0.361 0.00021	*****	*****	*****	*****	68	72	1.122	1.188		
265.43506	0.440 0.887 -0.122	0.744 0.657 -0.112	1450 1500 1701	44.41	-21 -87.99 91.84	63.6 1.50 0.12E 30	8.2 110.7 -1.0	0.458 -0.00045	*****	*****	*****	*****	56	56	0.880	0.880		
265.43576	0.463 0.874 -0.126	0.753 0.646 -0.114	1419 1510 1656	43.57	-18 -88.06 92.17	66.6 1.52 0.11E 30	8.2 110.3 -1.2	0.555 -0.00126	*****	*****	*****	*****	60	76	0.901	1.141		
265.43645	0.487 0.862 -0.130	0.763 0.635 -0.117	1388 1519 1616	42.74	-14 -88.14 92.50	69.6 1.54 0.11E 30	8.2 110.0 -1.4	0.650 -0.00209	*****	*****	*****	*****	84	76	1.207	1.093		
265.43715	0.510 0.849 -0.134	0.772 0.624 -0.120	1357 1529 1575	41.91	-11 -88.21 92.83	72.5 1.57 0.11E 30	8.1 109.6 -1.6	0.746 -0.00303	*****	*****	*****	*****	76	52	1.047	0.717		
265.43784	0.534 0.833 -0.138	0.782 0.611 -0.122	1328 1539 1532	41.00	-8 -88.36 93.19	75.9 1.59 0.11E 30	8.1 109.1 -1.8	0.841 -0.00406	*****	*****	*****	*****	56	76	0.737	1.001		
265.43854	0.557 0.815 -0.142	0.792 0.597 -0.125	1301 1548 1489	40.03	-6 -88.56 93.57	79.7 1.62 0.11E 30	8.0 108.6 -2.0	0.932 -0.00504	*****	*****	*****	*****	68	60	0.854	0.753		
265.43923	0.581 0.798 -0.145	0.801 0.583 -0.127	1273 1558 1451	39.05	-3 -88.77 93.96	83.4 1.65 0.10E 30	8.0 108.0 -2.2	1.022 -0.00601	*****	*****	*****	*****	68	60	0.816	0.719		
265.43993	0.605 0.780 -0.149	0.811 0.569 -0.129	1245 1568 1412	38.08	0 -88.98 94.35	87.2 1.68 0.10E 30	8.0 107.5 -2.4	1.106 -0.00679	*****	*****	*****	*****	68	68	0.780	0.780		
265.44062	0.628 0.762 -0.153	0.821 0.555 -0.132	1218 1577 1376	37.11	1 -89.18 94.74	90.9 1.71 0.10E 30	7.9 106.9 -2.7	1.235 -0.00780	*****	*****	*****	*****	68	64	0.748	0.704		
265.44131	0.651 0.741 -0.157	0.831 0.539 -0.134	1192 1586 1338	36.05	3 -89.50 95.15	95.1 1.73 0.99E 29	7.9 106.3 -2.8	1.265 -0.00805	*****	*****	*****	*****	72	80	0.758	0.842		
265.44201	0.674 0.717 -0.160	0.842 0.521 -0.136	1169 1595 1299	34.92	5 -89.93 95.59	99.5 1.76 0.98E 29	7.9 105.4 -3.0	1.340 -0.00859	*****	*****	*****	*****	68	64	0.683	0.643		

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE 100
265.44340	0.720 0.670 -0.167	0.862 0.484 -0.140	1121 1611 1234	32.64	7 -90.79 96.47	108.5 1.82 0.95E 29	7.8 103.8 -3.2	1.384 -0.00845	*****	*****	*****	*****	88	84	0.811	0.775	
265.44479	0.764 0.620 -0.173	0.883 0.446 -0.144	1077 1627 1173	30.29	9 -91.84 97.36	117.6 1.88 0.92E 29	7.7 101.9 -3.5	1.460 -0.00816	*****	*****	*****	*****	76	84	0.646	0.715	
265.44548	0.783 0.591 -0.176	0.892 0.425 -0.146	1058 1634 1140	29.00	9 -92.65 97.83	122.4 1.91 0.91E 29	7.7 100.6 -3.6	1.472 -0.00775	*****	*****	*****	*****	108	84	0.883	0.686	
265.44618	0.803 0.562 -0.179	0.901 0.404 -0.147	1040 1642 1113	27.71	8 -93.46 98.29	127.2 1.94 0.90E 29	7.6 99.4 -3.7	1.480 -0.00724	*****	*****	*****	*****	84	80	0.661	0.629	
265.44687	0.823 0.533 -0.182	0.910 0.383 -0.149	1021 1649 1087	26.41	7 -94.28 98.76	132.0 1.98 0.89E 29	7.6 98.2 -3.9	1.526 -0.00685	*****	*****	*****	*****	76	88	0.575	0.667	
265.44756	0.842 0.504 -0.185	0.919 0.362 -0.151	1002 1656 1062	25.12	7 -95.10 99.23	136.8 2.01 0.88E 29	7.6 96.9 -4.0	1.532 -0.00626	*****	*****	*****	*****	96	88	0.701	0.644	
265.44826	0.860 0.473 -0.187	0.928 0.338 -0.153	987 1662 1042	23.76	5 -96.30 99.68	141.3 2.03 0.87E 29	7.5 95.3 -4.1	1.535 -0.00564	*****	*****	*****	*****	100	104	0.707	0.736	
265.44895	0.875 0.439 -0.188	0.935 0.313 -0.153	974 1666 1018	22.34	2 -97.89 100.13	145.6 2.05 0.86E 29	7.5 93.3 -4.2	1.537 -0.00500	*****	*****	*****	*****	108	92	0.741	0.632	
265.44965	0.890 0.405 -0.190	0.943 0.288 -0.155	961 1672 996	20.91	0 -99.48 100.57	150.0 2.07 0.85E 29	7.5 91.3 -4.2	1.502 -0.00425	*****	*****	*****	*****	88	96	0.587	0.640	
265.45034	0.905 0.372 -0.192	0.950 0.263 -0.155	948 1677 981	19.49	-3 101.07 101.02	154.3 2.10 0.84E 29	7.5 89.3 -4.1	1.434 -0.00348	*****	*****	*****	*****	80	96	0.519	0.622	
265.45104	0.920 0.338 -0.193	0.957 0.238 -0.157	935 1682 966	18.07	-6 102.66 101.46	158.6 2.12 0.83E 29	7.4 87.3 -4.1	1.405 -0.00288	*****	*****	*****	*****	96	96	0.605	0.605	
265.45173	0.931 0.302 -0.194	0.963 0.212 -0.157	926 1685 949	16.65	-10 105.32 101.86	162.1 2.14 0.83E 29	7.4 84.3 -4.1	1.377 -0.00232	*****	*****	*****	*****	108	96	0.667	0.592	
265.45243	0.940 0.265 -0.194	0.968 0.185 -0.157	920 1688 934	15.23	-16 109.05 102.21	164.8 2.15 0.82E 29	7.4 80.3 -4.1	1.350 -0.00181	*****	*****	*****	*****	80	96	0.485	0.583	
265.45312	0.949 0.228 -0.194	0.973 0.157 -0.157	914 1690 922	13.80	-22 112.78 102.56	167.6 2.17 0.82E 29	7.4 76.2 -4.0	1.292 -0.00131	*****	*****	*****	*****	88	96	0.525	0.573	
265.45381	0.958 0.191 -0.195	0.977 0.129 -0.158	908 1692 915	12.38	-27 116.51 102.92	170.3 2.18 0.82E 29	7.4 72.2 -4.0	1.272 -0.00094	*****	*****	*****	*****	84	96	0.494	0.563	
265.45451	0.967 0.154 -0.195	0.982 0.102 -0.158	902 1695 909	10.96	-33 120.24 103.27	173.1 2.19 0.81E 29	7.4 68.1 -4.0	1.254 -0.00064	*****	*****	*****	*****	96	88	0.555	0.508	
265.45520	0.972 0.116 -0.194	0.984 0.074 -0.157	899 1696 903	9.84	-39 127.76 103.54	174.6 2.20 0.81E 29	7.4 60.4 -4.0	1.238 -0.00035	*****	*****	*****	*****	84	96	0.480	0.550	
265.45590	0.974 0.077 -0.193	0.985 0.045 -0.156	900 1695 899	9.02	-45 139.07 103.73	175.0 2.20 0.81E 29	7.4 48.9 -4.0	1.221 -0.00006	*****	*****	*****	*****	96	92	0.549	0.526	
265.45659	0.975 0.038 -0.192	0.985 0.016 -0.155	902 1695 897	8.20	-52 150.38 103.93	175.4 2.20 0.81E 29	7.3 37.4 -4.0	1.209 0.00014	*****	*****	*****	*****	112	100	0.639	0.571	

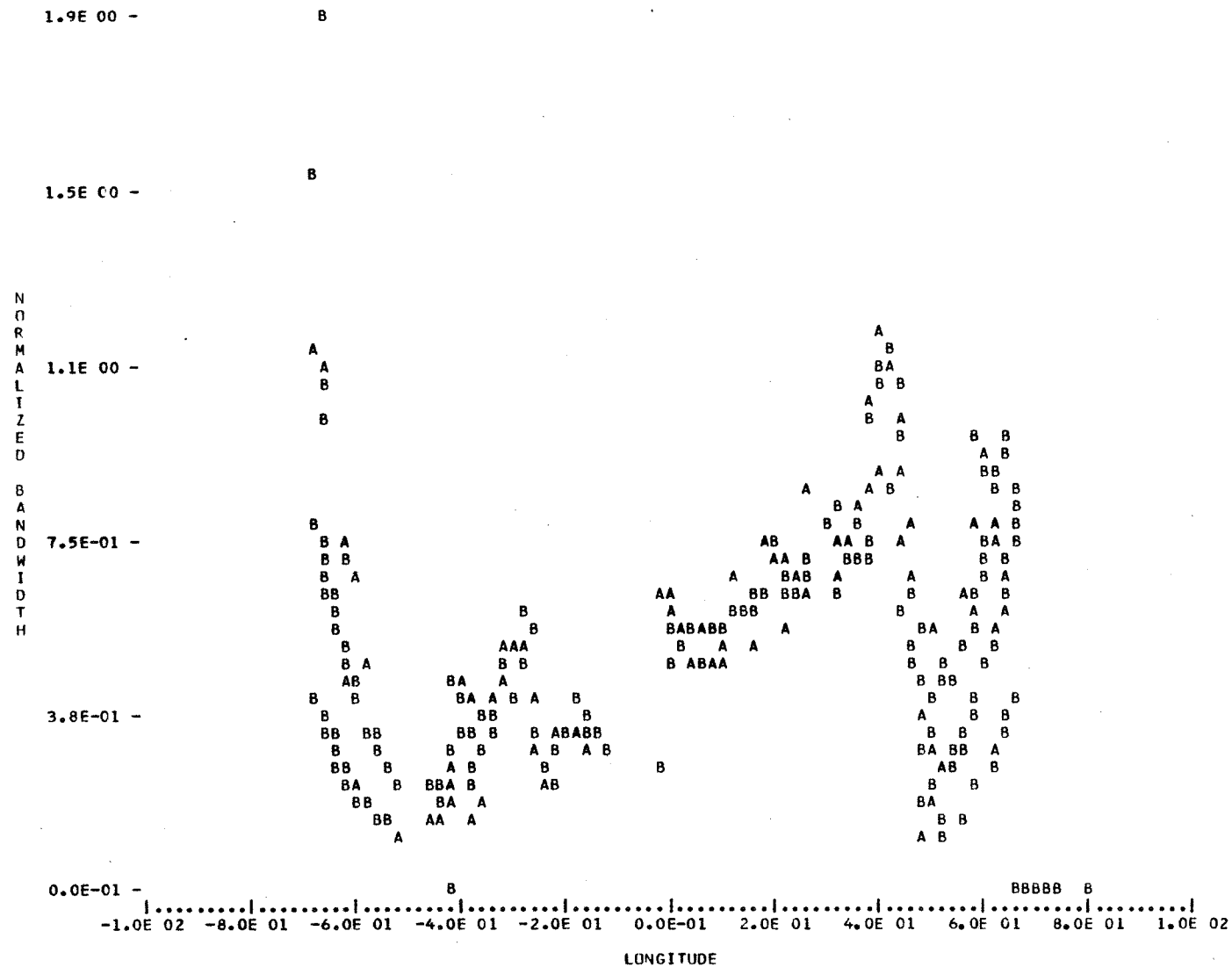
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE 101
265.45729	0.977 0.000 -0.191	0.986 -0.013 -0.154	902 1695 898	7.38	-58 161.70 104.12	175.7 2.21 0.82E 29	7.3 25.9 -4.0	1.202 0.00025	*****	*****	*****	*****	108	84	0.615	0.478	
265.45798	0.979 -0.039 -0.190	0.987 -0.042 -0.154	903 1694 902	6.56	-64 173.01 104.31	176.1 2.21 0.82E 29	7.3 14.4 -3.9	1.170 0.00026	*****	*****	*****	*****	112	48	0.637	0.273	
265.46215	0.946 -0.267 -0.174	0.966 -0.212 -0.142	952 1675 960	10.82	-96 124.07 104.37	164.0 2.15 0.84E 29	7.3 131.4 -3.9	1.191 -0.00007	46.89	78.44	2.28	3.81	48	52	0.293	0.317	
265.46284	0.934 -0.301 -0.171	0.959 -0.237 -0.139	967 1670 975	12.13	-99 120.37 104.22	160.3 2.13 0.85E 29	7.3 127.9 -3.9	1.200 -0.00021	49.81	66.90	2.47	3.32	56	52	0.350	0.324	
265.46354	0.922 -0.336 -0.167	0.953 -0.262 -0.136	981 1664 990	13.45	-102 116.67 104.06	156.5 2.11 0.87E 29	7.3 124.3 -4.0	1.244 -0.00042	37.28	50.94	1.89	2.58	48	56	0.306	0.358	
265.46423	0.911 -0.370 -0.163	0.947 -0.287 -0.134	995 1658 1010	14.76	-105 112.97 103.90	152.7 2.10 0.88E 29	7.3 120.8 -4.0	1.260 -0.00070	32.89	59.02	1.69	3.03	60	56	0.393	0.366	
265.46493	0.899 -0.404 -0.160	0.940 -0.312 -0.131	1010 1653 1033	16.07	-108 109.28 103.75	148.9 2.08 0.89E 29	7.3 117.2 -4.0	1.281 -0.00106	28.22	41.26	1.48	2.16	48	60	0.322	0.404	
265.46562	0.885 -0.436 -0.156	0.933 -0.336 -0.128	1027 1646 1054	17.37	-110 106.60 103.54	144.7 2.06 0.90E 29	7.4 114.7 -4.0	1.302 -0.00144	27.63	52.03	1.46	2.75	48	48	0.332	0.332	
265.46631	0.868 -0.465 -0.151	0.924 -0.357 -0.125	1047 1639 1075	18.64	-110 104.93 103.28	140.2 2.03 0.91E 29	7.4 113.3 -4.0	1.322 -0.00179	27.08	51.45	1.47	2.80	48	32	0.342	0.228	
265.46701	0.852 -0.495 -0.147	0.915 -0.379 -0.122	1068 1631 1102	19.90	-110 103.27 103.02	135.7 2.01 0.92E 29	7.4 111.9 -4.0	1.344 -0.00220	38.35	66.67	2.14	3.72	48	40	0.353	0.294	
265.46770	0.836 -0.525 -0.143	0.907 -0.401 -0.119	1088 1623 1130	21.17	-110 101.60 102.76	131.2 1.99 0.94E 29	7.4 110.4 -4.0	1.371 -0.00270	29.43	76.21	1.68	4.36	32	36	0.244	0.274	
265.46840	0.819 -0.554 -0.138	0.898 -0.422 -0.116	1108 1616 1158	22.44	-110 99.94 102.49	126.7 1.96 0.95E 29	7.4 109.0 -4.1	1.436 -0.00335	35.31	64.58	2.08	3.80	52	44	0.411	0.347	
265.46909	0.801 -0.581 -0.134	0.889 -0.442 -0.112	1130 1608 1187	23.65	-109 98.64 102.21	122.3 1.94 0.96E 29	7.4 108.0 -4.1	1.466 -0.00395	27.99	60.69	1.69	3.66	36	68	0.294	0.556	
265.46979	0.782 -0.606 -0.129	0.880 -0.460 -0.109	1155 1599 1217	24.78	-107 97.70 101.89	117.9 1.91 0.97E 29	7.4 107.3 -4.1	1.495 -0.00454	26.58	49.78	1.66	3.11	72	72	0.610	0.610	
265.47048	0.762 -0.630 -0.124	0.870 -0.477 -0.105	1181 1590 1249	25.91	-105 96.77 101.58	113.6 1.88 0.98E 29	7.4 106.6 -4.1	1.527 -0.00521	27.11	57.67	1.75	3.72	60	56	0.528	0.494	
265.47118	0.742 -0.655 -0.120	0.861 -0.495 -0.102	1205 1581 1282	27.04	-102 95.83 101.27	109.2 1.86 0.99E 29	7.4 106.0 -4.1	1.562 -0.00594	22.44	60.06	1.49	3.98	56	44	0.513	0.404	
265.47187	0.723 -0.680 -0.115	0.852 -0.513 -0.099	1230 1572 1319	28.17	-100 94.90 100.96	104.8 1.83 0.10E 30	7.5 105.3 -4.1	1.601 -0.00680	30.76	75.75	2.08	5.12	56	52	0.534	0.496	
265.47256	0.702 -0.702 -0.111	0.842 -0.529 -0.095	1257 1563 1355	29.23	-97 94.14 100.64	100.7 1.81 0.10E 30	7.5 104.9 -4.2	1.678 -0.00782	25.61	65.43	1.78	4.56	44	48	0.437	0.477	
265.47326	0.681 -0.722 -0.105	0.832 -0.544 -0.092	1286 1554 1390	30.21	-93 93.57 100.32	96.9 1.78 0.10E 30	7.5 104.6 -4.2	1.715 -0.00865	29.79	74.77	2.15	5.40	40	36	0.413	0.371	

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE 102
265.47395	0.659 -0.741 -0.100	0.822 -0.559 -0.089	1315 1544 1424	31.19	-90 93.00 100.00	89.3 1.75 0.10E 30	7.5 104.3 -4.2	1.755 -0.00957	24.31	64.53	1.82	4.83	40	32	0.430	0.344	
265.47465	0.638 -0.761 -0.095	0.813 -0.575 -0.086	1343 1534 1461	32.18	-86 92.42 99.68	89.3 1.73 0.11E 30	7.5 104.0 -4.1	1.755 -0.01033	24.52	57.28	1.89	4.42	28	28	0.313	0.313	
265.47534	0.617 -0.781 -0.090	0.803 -0.590 -0.083	1372 1525 1504	33.16	-82 91.85 99.36	85.5 1.70 0.11E 30	7.6 103.7 -4.0	1.756 -0.01114	18.93	71.47	1.49	5.64	16	32	0.187	0.375	
265.47604	0.595 -0.798 -0.086	0.794 -0.603 -0.080	1402 1515 1543	34.07	-78 91.38 99.05	82.0 1.68 0.11E 30	7.6 103.6 -3.9	1.750 -0.01179	21.55	71.42	1.75	5.81	12	20	0.147	0.244	
265.47673	0.574 -0.813 -0.081	0.785 -0.614 -0.076	1433 1505 1583	34.92	-74 91.02 98.75	78.9 1.65 0.12E 30	7.6 103.5 -3.8	1.743 -0.01240	21.14	56.66	1.79	4.79	32	28	0.406	0.354	
265.47743	0.552 -0.827 -0.076	0.775 -0.626 -0.073	1465 1495 1621	35.77	-70 90.66 98.44	75.8 1.63 0.12E 30	7.6 103.4 -3.8	1.783 -0.01338	16.06	51.85	1.40	4.52	20	20	0.264	0.264	
265.47812	0.531 -0.842 -0.072	0.766 -0.638 -0.070	1497 1485 1664	36.62	-65 90.30 98.14	72.7 1.61 0.12E 30	7.6 103.3 -3.7	1.777 -0.01403	17.11	42.79	1.54	3.86	32	24	0.441	0.330	
265.47881	0.510 -0.857 -0.067	0.757 -0.649 -0.067	1528 1475 1710	37.47	-61 89.94 97.84	69.6 1.58 0.13E 30	7.7 103.2 -3.6	1.771 -0.01469	14.88	45.17	1.38	4.17	24	28	0.345	0.402	
265.47951	0.489 -0.869 -0.063	0.749 -0.660 -0.064	1561 1465 1750	38.25	-56 89.65 97.54	66.8 1.56 0.13E 30	7.7 103.2 -3.5	1.759 -0.01515	17.17	40.99	1.64	3.91	16	20	0.240	0.299	
265.48020	0.468 -0.880 -0.058	0.740 -0.669 -0.061	1595 1455 1793	38.98	-52 89.42 97.27	64.3 1.54 0.13E 30	7.7 103.2 -3.4	1.743 -0.01552	13.60	38.12	1.34	3.76	28	28	0.436	0.436	
265.48090	0.447 -0.891 -0.053	0.732 -0.679 -0.058	1629 1445 1836	39.71	-47 89.20 96.99	61.8 1.52 0.14E 30	7.7 103.3 -3.4	1.776 -0.01618	10.73	39.16	1.10	4.00	16	28	0.258	0.453	
265.48090	0.447 -0.891 -0.053	0.732 -0.679 -0.058	1629 1445 1836	39.71	-47 89.20 96.99	61.8 1.52 0.14E 30	7.7 103.3 -3.4	1.776 -0.01618	8.05	*****	0.82	*****	12	***	0.195	*****	
265.48159	0.426 -0.902 -0.049	0.724 -0.688 -0.055	1662 1436 1882	40.44	-42 88.97 96.71	59.4 1.50 0.14E 30	7.8 103.3 -3.3	1.759 -0.01647	6.63	33.57	0.69	3.50	8	12	0.135	0.202	
265.48229	0.405 -0.913 -0.044	0.715 -0.697 -0.052	1696 1426 1930	41.17	-38 88.74 96.44	56.9 1.48 0.14E 30	7.8 103.3 -3.2	1.742 -0.01669	9.29	30.08	1.00	3.24	8	12	0.141	0.211	
265.48298	0.385 -0.922 -0.040	0.707 -0.706 -0.050	1731 1416 1975	41.85	-33 88.56 96.17	54.7 1.46 0.14E 30	7.8 103.4 -3.1	1.716 -0.01659	*****	*****	*****	*****	12	12	0.220	0.220	
265.48368	0.366 -0.929 -0.036	0.699 -0.713 -0.047	1766 1406 2018	42.48	-29 88.42 95.92	52.8 1.44 0.14E 30	7.8 103.5 -3.1	1.743 -0.01687	*****	*****	*****	*****	8	12	0.151	0.227	
265.49062	0.177 -0.983 0.003	0.626 -0.779 -0.021	2123 1312 2475	48.19	8 87.47 93.66	36.6 1.29 0.18E 30	8.0 104.5 -2.1	1.295 -0.00611	3.66	10.35	0.56	1.58	8	8	0.219	0.219	
265.49131	0.159 -0.986 0.006	0.618 -0.785 -0.019	2159 1303 2520	48.68	12 87.43 93.47	35.4 1.28 0.18E 30	8.1 104.7 -1.9	1.166 -0.00381	5.56	11.87	0.86	1.83	4	8	0.113	0.226	
265.49201	0.141 -0.989 0.010	0.611 -0.791 -0.017	2195 1293 2567	49.17	15 87.39 93.27	34.3 1.27 0.18E 30	8.1 104.8 -1.8	1.102 -0.00197	2.95	15.88	0.47	2.52	8	8	0.233	0.233	

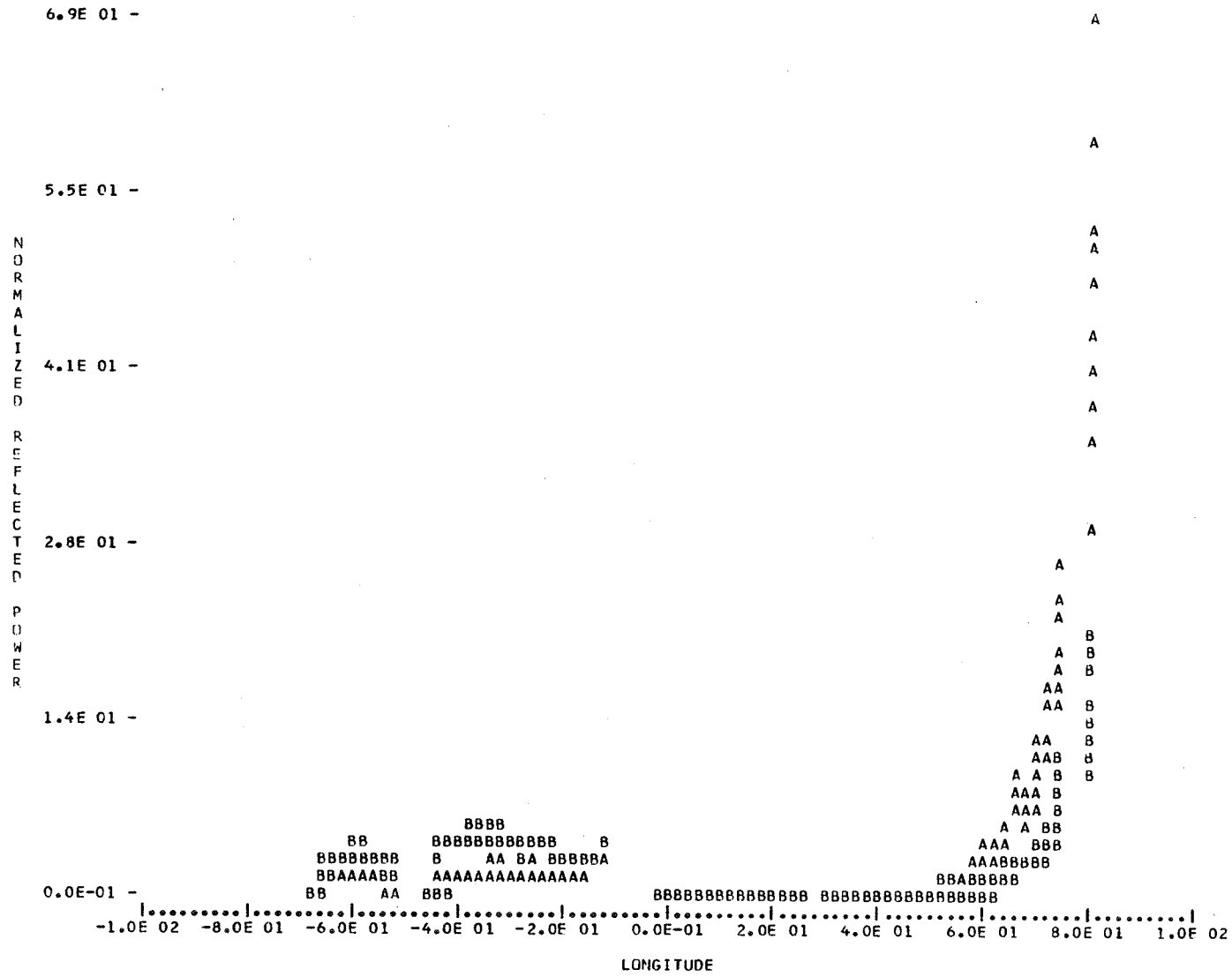
DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE 103
265.49270	0.123 -0.992 0.013	0.604 -0.796 -0.014	2232 1284 2617	49.66	18 87.35 93.08	33.1 1.26 0.19E 30	8.1 104.9 -1.7	1.036 -0.00007	1.87	11.87	0.30	1.93	4	8	0.121	0.241	
265.49340	0.106 -0.994 0.017	0.598 -0.801 -0.012	2268 1276 2663	50.12	21 87.33 92.89	32.0 1.24 0.19E 30	8.1 105.1 -1.6	0.962 0.00202	4.89	10.92	0.82	1.84	8	8	0.250	0.250	
265.49409	0.090 -0.995 0.020	0.592 -0.806 -0.010	2305 1267 2707	50.55	24 87.32 92.72	31.1 1.23 0.19E 30	8.1 105.2 -1.5	0.893 0.00372	4.88	11.17	0.84	1.93	8	8	0.257	0.257	
265.49479	0.074 -0.996 0.023	0.586 -0.810 -0.007	2342 1258 2753	50.99	27 87.31 92.55	30.1 1.22 0.19E 30	8.1 105.4 -1.4	0.817 0.00559	2.63	18.66	0.47	3.31	8	8	0.265	0.265	
265.49548	0.059 -0.997 0.026	0.580 -0.814 -0.005	2378 1250 2798	51.42	30 87.30 92.37	29.2 1.21 0.20E 30	8.2 105.5 -1.3	0.747 0.00712	6.93	17.46	1.25	3.14	4	4	0.137	0.137	
265.49618	0.043 -0.998 0.029	0.574 -0.819 -0.003	2415 1241 2845	51.85	33 87.29 92.20	28.2 1.20 0.20E 30	8.2 105.6 -1.2	0.676 0.00851	7.17	13.45	1.32	2.48	4	4	0.142	0.142	
265.49687	0.028 -0.999 0.032	0.568 -0.823 -0.001	2451 1233 2892	52.27	36 87.29 92.04	27.4 1.19 0.20E 30	8.2 105.8 -1.1	0.602 0.00979	6.42	12.35	1.22	2.34	4	4	0.147	0.147	
265.49756	0.013 -0.999 0.035	0.563 -0.826 0.001	2488 1225 2939	52.66	38 87.30 91.88	26.6 1.18 0.21E 30	8.2 105.9 -1.1	0.586 0.01166	8.89	12.37	1.73	2.41	8	8	0.300	0.300	
265.49826	-0.001 -0.998 0.038	0.558 -0.830 0.003	2525 1217 2980	53.05	41 87.31 91.73	25.9 1.17 0.21E 30	8.2 106.1 -1.0	0.513 0.01242	9.55	13.72	1.91	2.74	8	8	0.310	0.310	
265.49895	-0.016 -0.998 0.041	0.552 -0.834 0.006	2561 1208 3026	53.44	43 87.32 91.58	25.1 1.16 0.21E 30	8.2 106.2 -0.9	0.446 0.01283	7.54	13.09	1.54	2.68	8	8	0.318	0.318	
265.49965	-0.031 -0.998 0.044	0.547 -0.837 0.008	2598 1200 3076	53.83	45 87.33 91.42	24.3 1.15 0.22E 30	8.3 106.4 -0.8	0.378 0.01291	6.18	10.11	1.28	2.10	8	8	0.329	0.329	
265.50034	-0.045 -0.998 0.046	0.542 -0.840 0.010	2634 1192 3124	54.21	47 87.35 91.28	23.7 1.15 0.22E 30	8.3 106.5 -0.7	0.317 0.01260	8.49	11.71	1.79	2.47	12	8	0.507	0.339	
265.50104	-0.058 -0.997 0.049	0.537 -0.843 0.012	2670 1185 3168	54.56	49 87.37 91.14	23.0 1.14 0.23E 30	8.3 106.7 -0.6	0.257 0.01179	8.11	10.76	1.75	2.33	4	4	0.174	0.174	
265.50173	-0.071 -0.995 0.052	0.531 -0.846 0.014	2707 1177 3208	54.91	52 87.40 91.00	22.4 1.13 0.23E 30	8.3 106.8 -0.6	0.244 0.01281	9.08	13.15	2.01	2.92	4	4	0.179	0.179	
265.50243	-0.084 -0.994 0.054	0.527 -0.849 0.016	2743 1169 3254	55.26	53 87.42 90.87	21.8 1.12 0.23E 30	8.3 107.0 -0.5	0.190 0.01144	10.87	15.34	2.47	3.49	4	4	0.184	0.184	
265.50312	-0.097 -0.993 0.057	0.522 -0.852 0.018	2779 1162 3300	55.61	55 87.45 90.73	21.2 1.11 0.24E 30	8.3 107.1 -0.4	0.143 0.00979	5.93	10.24	1.38	2.39	4	4	0.189	0.189	
265.50381	-0.110 -0.992 0.059	0.517 -0.855 0.020	2815 1154 3346	55.95	57 87.48 90.60	20.6 1.11 0.24E 30	8.3 107.3 -0.3	0.099 0.00773	8.68	13.80	2.06	3.27	4	4	0.193	0.193	
265.50451	-0.122 -0.990 0.061	0.512 -0.858 0.022	2851 1147 3387	56.28	59 87.51 90.48	20.1 1.10 0.25E 30	8.4 107.4 -0.3	0.091 0.00813	11.42	15.73	2.74	3.78	4	4	0.198	0.198	
265.50520	-0.134 -0.988 0.063	0.507 -0.861 0.024	2887 1140 3429	56.60	61 87.55 90.35	19.6 1.09 0.25E 30	8.4 107.5 -0.2	0.056 0.00566	7.42	12.94	1.83	3.19	4	4	0.204	0.204	

DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE 104
265.50520	-0.134 -0.988 0.063	0.507 -0.861 0.024	2887 1140 3429	56.60	61 87.55 90.35	19.6 1.09 0.25E 30	8.4 107.5 -0.2	0.056 0.00566	7.45	14.04	1.83	3.46	4	4	0.204	0.204	
265.50590	-0.147 -0.987 0.066	0.503 -0.864 0.026	2923 1133 3479	56.92	63 87.59 90.23	19.1 1.08 0.25E 30	8.4 107.7 -0.1	0.025 0.00291	9.93	14.45	2.51	3.65	8	8	0.418	0.418	
265.50659	-0.159 -0.985 0.068	0.498 -0.867 0.028	2959 1126 3522	57.25	65 87.63 90.11	18.6 1.07 0.26E 30	8.4 107.8 -0.1	0.023 0.00301	8.22	14.15	2.13	3.66	4	8	0.215	0.430	
265.50729	-0.171 -0.983 0.070	0.494 -0.869 0.030	2995 1119 3568	57.56	66 87.67 89.99	18.2 1.07 0.26E 30	8.4 108.0 0.0	0.000 0.00000	7.94	13.16	2.08	3.46	8	8	0.441	0.441	
265.50798	-0.183 -0.980 0.072	0.488 -0.872 0.032	3030 1112 3607	57.85	68 87.71 89.88	17.7 1.06 0.27E 30	8.4 108.1 0.1	-0.017 -0.00313	6.38	11.53	1.72	3.10	12	8	0.676	0.450	
265.50868	-0.195 -0.977 0.074	0.483 -0.874 0.033	3066 1105 3650	58.15	69 87.76 89.77	17.3 1.05 0.27E 30	8.4 108.2 0.2	-0.030 -0.00636	6.81	10.46	1.88	2.88	8	4	0.462	0.231	
265.50937	-0.207 -0.975 0.077	0.478 -0.877 0.035	3101 1098 3695	58.45	70 87.80 89.66	16.9 1.05 0.27E 30	8.4 108.3 0.3	-0.038 -0.00966	6.91	11.04	1.93	3.09	8	8	0.473	0.473	
265.51006	-0.219 -0.972 0.079	0.473 -0.880 0.037	3136 1091 3737	58.74	72 87.85 89.55	16.5 1.04 0.28E 30	8.5 108.4 0.4	-0.041 -0.01298	5.50	11.14	1.56	3.16	8	12	0.485	0.728	
265.51076	-0.230 -0.970 0.081	0.469 -0.882 0.039	3171 1085 3783	59.03	73 87.90 89.44	16.1 1.04 0.28E 30	8.5 108.5 0.4	-0.031 -0.01304	6.48	7.35	1.86	2.11	12	4	0.745	0.249	
265.51145	-0.241 -0.967 0.083	0.465 -0.884 0.040	3206 1078 3826	59.30	74 87.95 89.34	15.8 1.03 0.29E 30	8.5 108.6 0.5	-0.028 -0.01631	8.70	9.01	2.56	2.65	8	8	0.508	0.508	
265.51215	-0.251 -0.964 0.085	0.461 -0.886 0.042	3241 1072 3867	59.57	75 88.00 89.24	15.4 1.03 0.29E 30	8.5 108.8 0.6	-0.020 -0.01932	7.36	9.78	2.20	2.92	8	8	0.519	0.519	
265.51284	-0.261 -0.961 0.086	0.457 -0.888 0.044	3276 1066 3908	59.85	76 88.05 89.14	15.1 1.03 0.29E 30	8.5 108.9 0.7	-0.008 -0.02242	7.61	10.68	2.30	3.23	4	4	0.265	0.265	
265.51354	-0.272 -0.958 0.088	0.453 -0.890 0.045	3311 1059 3953	60.12	77 88.10 89.04	14.7 1.02 0.30E 30	8.5 109.0 0.7	0.006 -0.02223	8.60	6.30	2.66	1.95	4	4	0.273	0.273	
265.51423	-0.282 -0.955 0.090	0.449 -0.892 0.047	3345 1053 3995	60.39	78 88.16 88.95	14.4 1.02 0.30E 30	8.5 109.1 0.8	0.024 -0.02513	9.21	5.89	2.89	1.85	8	8	0.556	0.556	
265.51493	-0.291 -0.952 0.092	0.445 -0.894 0.049	3379 1047 4034	60.64	79 88.22 88.85	14.1 1.01 0.31E 30	8.6 109.2 0.9	0.043 -0.02789	7.80	7.01	2.48	2.23	8	8	0.568	0.568	
265.51562	-0.301 -0.949 0.094	0.441 -0.896 0.051	3414 1041 4078	60.90	80 88.27 88.76	13.8 1.00 0.31E 30	8.6 109.3 1.0	0.067 -0.03049	6.52	5.09	2.12	1.66	8	4	0.580	0.291	
265.51631	-0.310 -0.946 0.095	0.438 -0.897 0.052	3448 1035 4120	61.16	81 88.33 88.67	13.5 1.00 0.31E 30	8.6 109.4 1.0	0.085 -0.02996	8.07	9.33	2.66	3.07	4	4	0.297	0.297	
265.51701	-0.319 -0.943 0.097	0.434 -0.899 0.054	3482 1029 4161	61.41	82 88.39 88.58	13.2 0.99 0.32E 30	8.6 109.5 1.1	0.112 -0.03230	5.39	6.15	1.82	2.07	4	8	0.303	0.607	
265.51770	-0.328 -0.939 0.099	0.430 -0.901 0.056	3516 1023 4198	61.66	83 88.45 88.50	12.9 0.99 0.32E 30	8.6 109.6 1.2	0.142 -0.03447	5.49	6.06	1.88	2.07	4	4	0.310	0.310	

NORMALIZED BANDWIDTH VS LONGITUDE

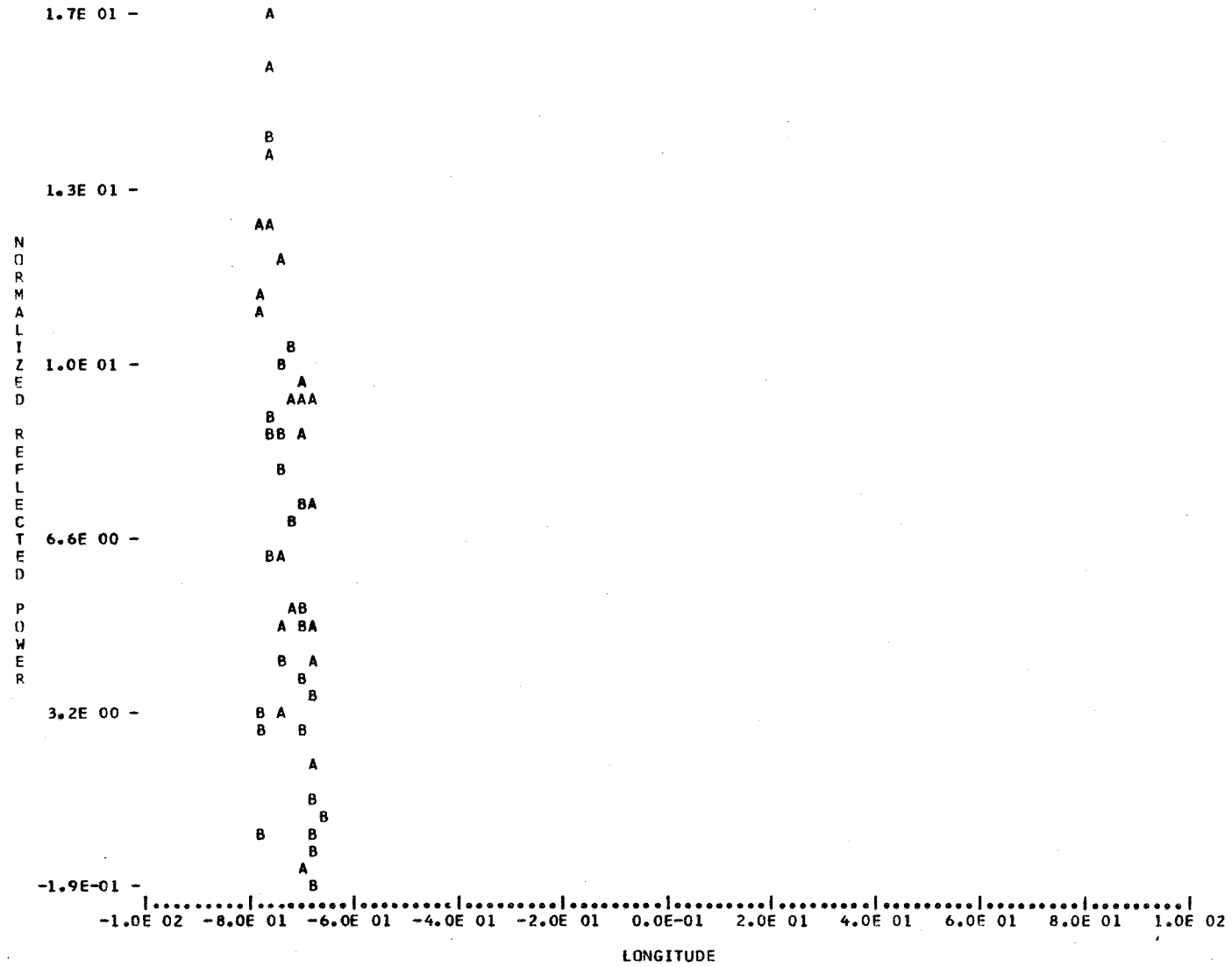


NORMALIZED REFLECTED POWER VS LONGITUDE

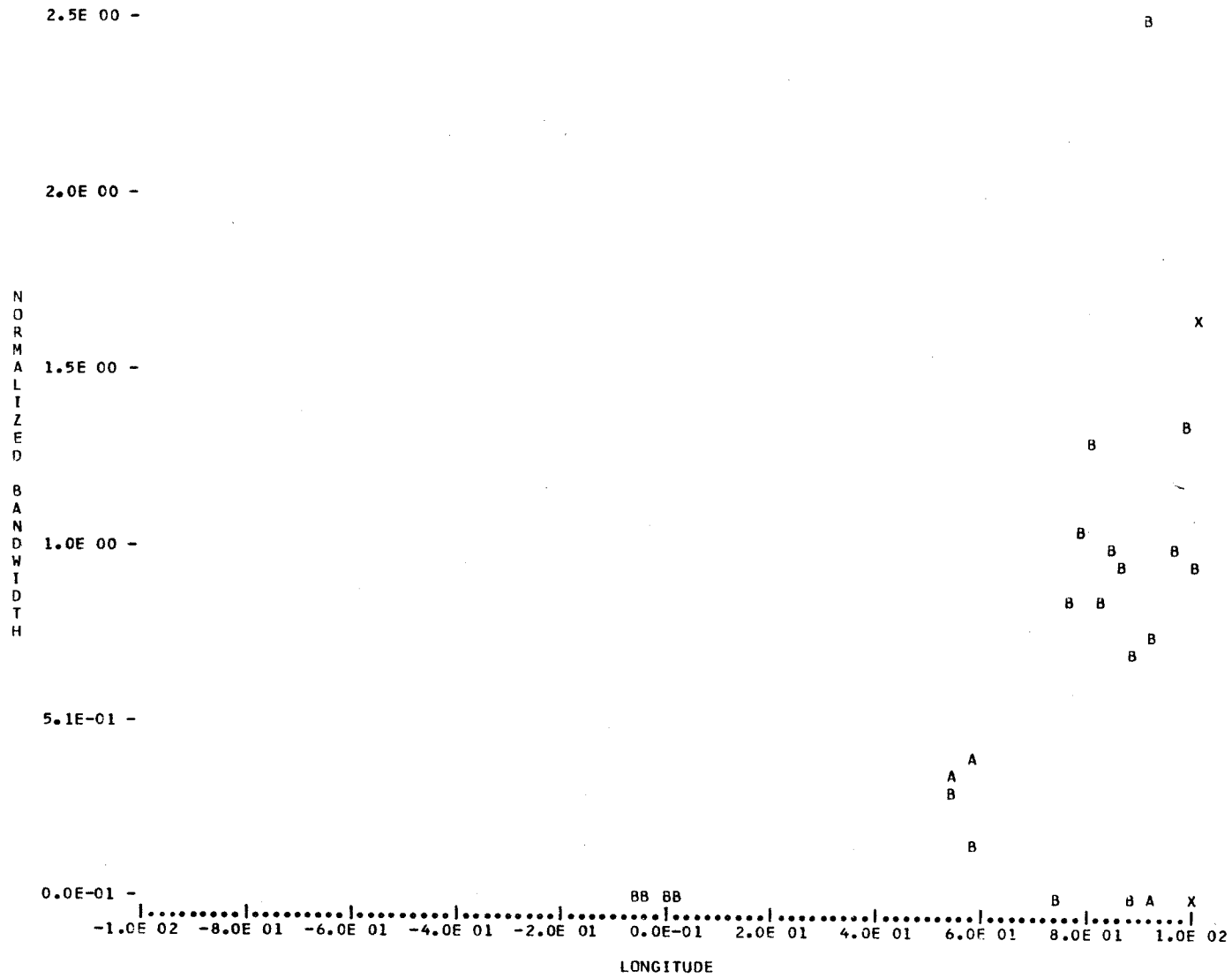


DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	PNA	RNB	IBWA	IWBW	BWNA	BWNB	PAGE 108
312.92499	-0.603 -0.793 0.081	0.384 -0.894 0.231	5604 718 6649	73.29	186 100.03 85.02	5.2 0.81 0.63E 30	9.1 123.3 3.9	1.111 -0.01556	1.38	1.50	1.06	1.15	***	***	*****	*****	
312.92638	-0.610 -0.788 0.079	0.379 -0.896 0.231	5556 724 6609	73.64	184 100.10 85.13	5.2 0.80 0.62E 30	9.1 123.3 3.8	1.098 -0.01421	2.93	-0.25	2.26	-0.19	***	***	*****	*****	
312.92777	-0.618 -0.782 0.077	0.373 -0.898 0.231	5507 730 6569	73.99	181 100.18 85.25	5.1 0.80 0.62E 30	9.1 123.3 3.7	1.083 -0.01294	6.67	1.23	5.07	0.94	***	***	*****	*****	
312.92916	-0.626 -0.776 0.075	0.368 -0.901 0.231	5458 737 6529	74.34	179 100.25 85.36	5.1 0.79 0.61E 30	9.0 123.3 3.6	1.067 -0.01173	5.51	0.70	4.23	0.54	***	***	*****	*****	
312.93055	-0.634 -0.770 0.073	0.362 -0.903 0.231	5409 743 6490	74.70	177 100.32 85.48	5.1 0.78 0.60E 30	9.0 123.3 3.5	1.049 -0.01057	9.46	1.99	7.25	1.53	***	***	*****	*****	
312.93194	-0.643 -0.762 0.071	0.355 -0.906 0.231	5358 750 6444	75.07	174 100.40 85.60	5.0 0.77 0.59E 30	9.0 123.3 3.4	1.031 -0.00946	12.06	4.61	9.24	3.53	***	***	*****	*****	
312.93333	-0.652 -0.755 0.069	0.348 -0.909 0.231	5307 757 6404	75.44	171 100.47 85.73	5.0 0.76 0.58E 30	9.0 123.3 3.3	1.011 -0.00843	12.25	3.77	9.37	2.89	***	***	*****	*****	
312.93472	-0.661 -0.748 0.067	0.341 -0.911 0.231	5255 763 6364	75.82	168 100.55 85.85	4.9 0.75 0.58E 30	9.0 123.3 3.2	0.990 -0.00744	12.48	5.27	9.53	4.02	***	***	*****	*****	
312.93611	-0.669 -0.741 0.064	0.335 -0.914 0.231	5202 770 6319	76.21	165 100.62 85.99	4.9 0.74 0.57E 30	9.0 123.3 3.1	0.968 -0.00652	11.33	6.89	8.64	5.25	***	***	*****	*****	
312.93750	-0.677 -0.734 0.062	0.329 -0.916 0.231	5150 777 6277	76.60	162 100.70 86.12	4.8 0.73 0.56E 30	8.9 123.3 3.0	0.945 -0.00567	12.20	6.21	9.39	4.78	***	***	*****	*****	
312.93888	-0.685 -0.726 0.060	0.323 -0.918 0.231	5096 785 6230	77.00	158 100.77 86.26	4.8 0.72 0.55E 30	8.9 123.3 2.9	0.920 -0.00487	*****	9.39	*****	7.21	***	***	*****	*****	
312.94027	-0.693 -0.719 0.057	0.316 -0.920 0.232	5041 792 6185	77.41	154 100.85 86.39	4.7 0.71 0.54E 30	8.9 123.3 2.8	0.895 -0.00414	7.02	8.99	5.38	6.89	***	***	*****	*****	
312.94583	-0.726 -0.686 0.048	0.289 -0.929 0.232	4817 822 6000	79.10	138 101.15 86.99	4.4 0.66 0.50E 30	8.8 123.3 2.3	0.751 -0.00174	11.93	13.21	9.30	10.30	***	***	*****	*****	
312.94722	-0.734 -0.677 0.045	0.282 -0.931 0.232	4760 830 5951	79.54	134 101.22 87.15	4.3 0.65 0.49E 30	8.8 123.2 2.2	0.723 -0.00129	8.09	12.67	6.30	9.86	***	***	*****	*****	
312.94861	-0.743 -0.668 0.043	0.274 -0.933 0.232	4701 838 5905	79.99	129 101.30 87.31	4.2 0.63 0.49E 30	8.8 123.2 2.1	0.692 -0.00093	4.00	11.04	3.15	8.70	***	***	*****	*****	
312.94999	-0.752 -0.657 0.040	0.265 -0.936 0.232	4642 847 5852	80.46	124 101.37 87.48	4.1 0.61 0.48E 30	8.8 123.2 2.0	0.660 -0.00061	6.12	5.48	4.89	4.38	***	***	*****	*****	
312.95138	-0.762 -0.647 0.037	0.256 -0.938 0.232	4583 855 5810	80.92	119 101.45 87.65	4.0 0.59 0.47E 30	8.7 123.2 1.8	0.595 -0.00033	14.62	9.67	11.99	7.94	***	***	*****	*****	
312.95277	-0.770 -0.637 0.034	0.248 -0.940 0.232	4522 864 5758	81.40	114 101.53 87.83	3.8 0.57 0.46E 30	8.7 123.1 1.7	0.564 -0.00010	20.16	10.91	16.79	9.09	***	***	*****	*****	
312.95416	-0.779 -0.626 0.031	0.240 -0.942 0.233	4461 873 5710	81.89	108 101.60 88.01	3.7 0.55 0.45E 30	8.7 123.1 1.5	0.497 0.00006	14.98	10.33	12.67	8.74	***	***	*****	*****	

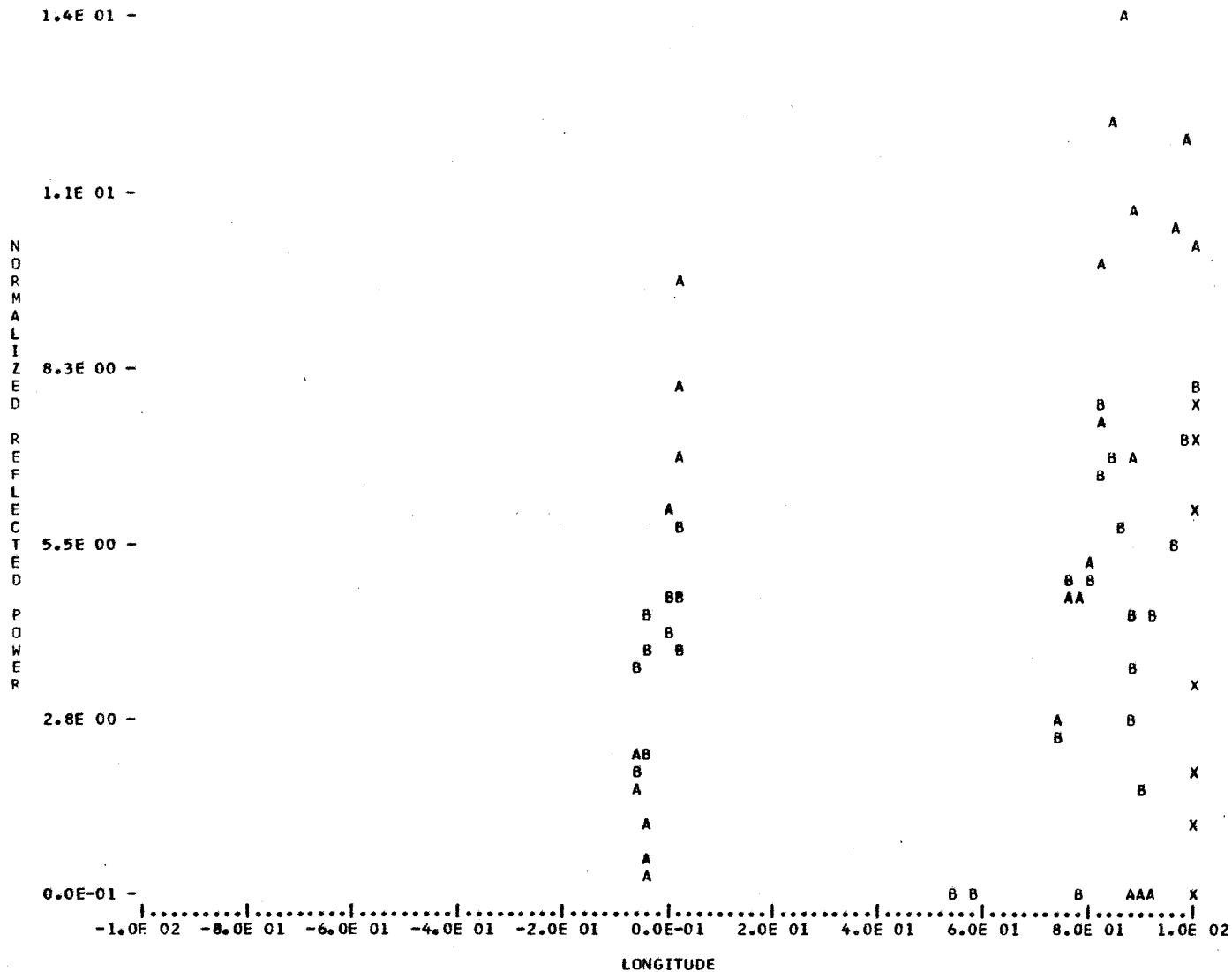
NORMALIZED REFLECTED POWER VS LONGITUDE



NORMALIZED BANDWIDTH VS LONGITUDE

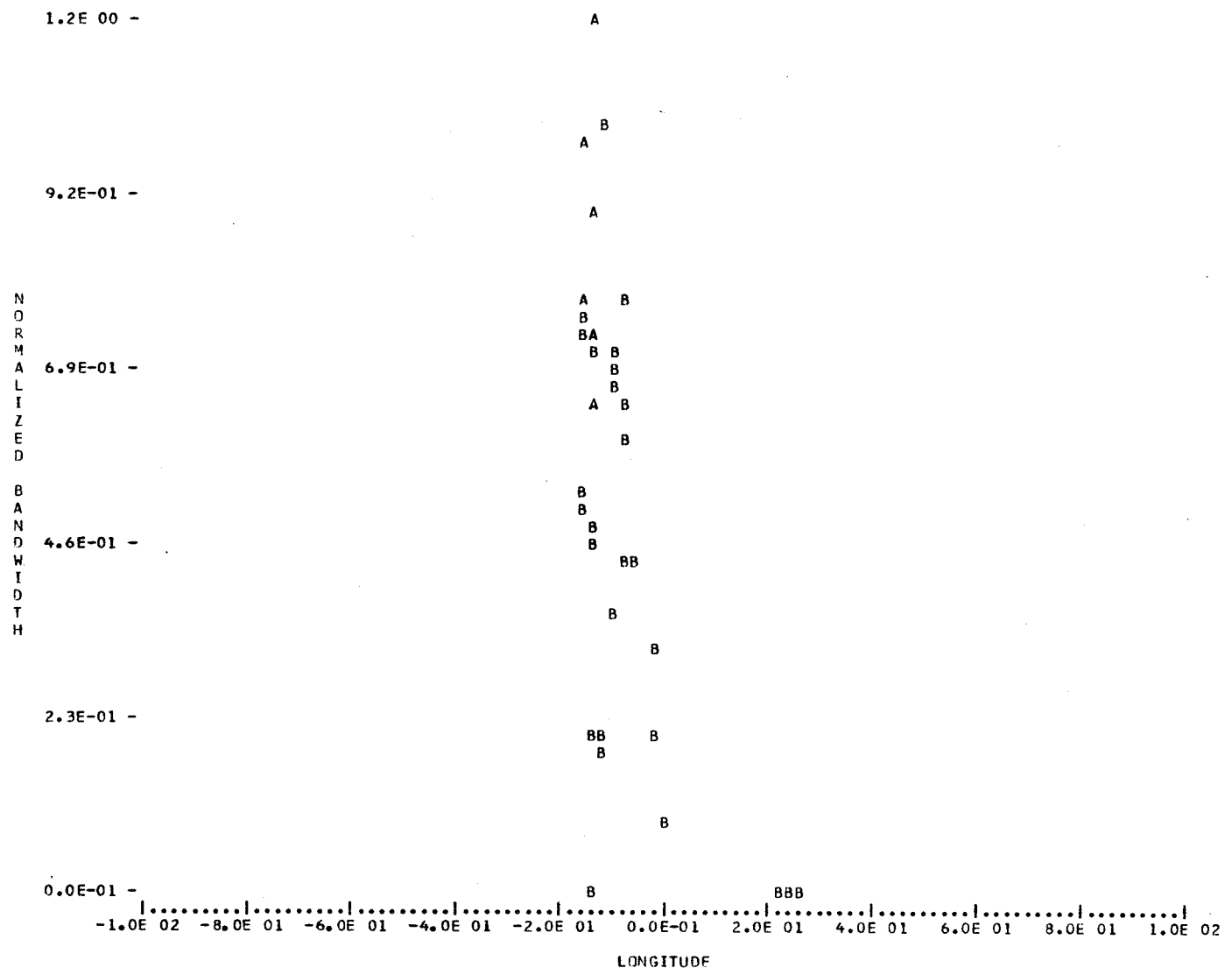


NORMALIZED REFLECTED POWER VS LONGITUDE

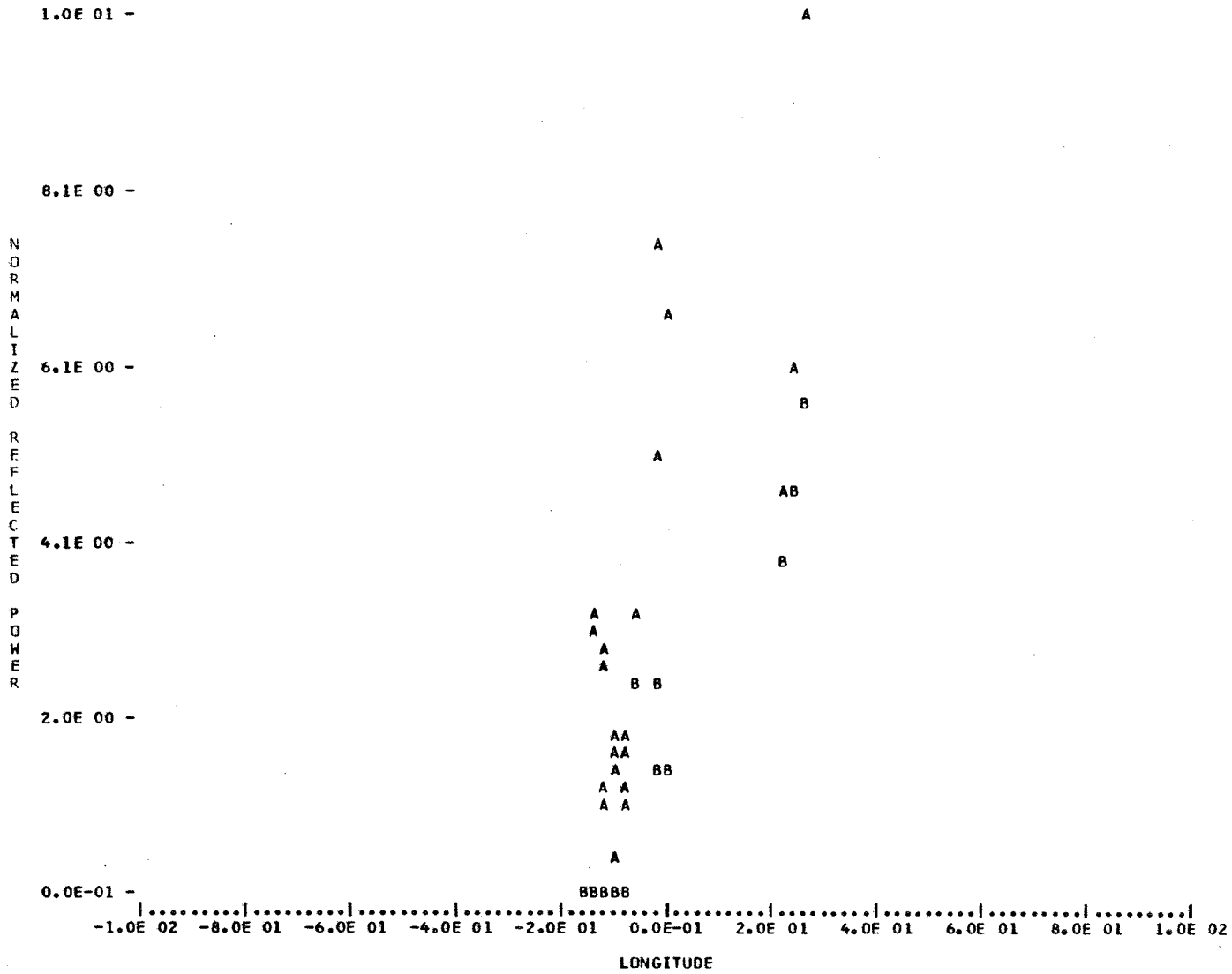


DAY	XSAT YSAT ZSAT	XSPEC YSPEC ZSPEC	ALT VEL D	PHI	DOFF PSI THETA	BW SIGPRE SIGFAC	S G X	ALGGH DLGGH	REFA	REFB	RNA	RNB	IBWA	IBWB	BWNA	BWNB	PAGE 115
314. 1527	0.882 0.466 0.009	0.902 0.428 0.032	1374 1525 1373	6.48	-577 120.08 94.97	119.0 1.92 0.11E 30	7.9 75.8 -2.8	0.861 -0.00019	150.67	84.91	10.14	5.71	***	***	*****	*****	
314. 1666	0.906 0.419 0.020	0.917 0.395 0.041	1443 1502 1441	4.41	-573 128.35 94.20	112.4 1.89 0.12E 30	8.0 68.2 -2.4	0.732 -0.00006	84.96	64.98	5.99	4.58	***	***	*****	*****	
314. 1805	0.926 0.373 0.031	0.930 0.362 0.049	1515 1480 1513	3.22	-566 -81.36 93.47	106.1 1.86 0.12E 30	8.1 115.9 -1.9	0.578 -0.00002	62.40	50.81	4.62	3.76	***	***	*****	*****	
314. 4236	0.961 -0.232 0.150	0.992 -0.012 0.130	2855 1147 2922	20.38	-343 85.90 85.49	40.4 1.46 0.24E 30	9.0 108.9 3.5	-1.195 0.00231	39.19	7.91	6.63	1.34	16	4	0.098	0.098	
314. 4374	0.954 -0.255 0.154	0.991 -0.025 0.133	2930 1132 3002	21.16	-330 85.87 85.24	38.7 1.45 0.25E 30	9.1 109.0 3.7	-1.275 0.00265	43.37	7.95	7.55	1.38	12	8	0.207	0.207	
314. 4513	0.948 -0.278 0.158	0.990 -0.038 0.136	3005 1117 3088	21.94	-319 85.85 84.99	36.9 1.44 0.26E 30	9.1 109.2 3.9	-1.356 0.00300	27.74	13.59	5.02	2.46	32	12	0.326	0.326	
314. 5486	0.891 -0.417 0.178	0.982 -0.117 0.151	3513 1023 3637	26.55	-242 86.12 83.63	27.9 1.36 0.33E 30	9.3 110.2 5.1	-1.876 0.00569	13.84	10.63	3.18	2.44	4	12	0.430	0.430	
314. 5555	0.887 -0.426 0.179	0.981 -0.123 0.152	3549 1017 3678	26.85	-238 86.15 83.54	27.4 1.35 0.33E 30	9.3 110.3 5.2	-1.920 0.00591	8.02	*****	1.88	*****	12	12	0.438	0.438	
314. 5694	0.878 -0.442 0.181	0.979 -0.132 0.154	3618 1005 3751	27.41	-228 86.23 83.39	26.5 1.34 0.34E 30	9.4 110.5 5.3	-1.969 0.00622	7.18	*****	1.72	*****	4	16	0.604	0.604	
314. 5833	0.869 -0.458 0.183	0.978 -0.141 0.156	3687 994 3824	27.96	-219 86.30 83.24	25.6 1.33 0.35E 30	9.4 110.7 5.4	-2.019 0.00651	4.47	*****	1.11	*****	8	20	0.782	0.782	
314. 5972	0.861 -0.473 0.185	0.976 -0.150 0.158	3756 982 3902	28.50	-210 86.38 83.10	24.7 1.33 0.35E 30	9.4 110.8 5.6	-2.109 0.00697	4.82	*****	1.23	*****	8	16	0.647	0.647	
314. 6111	0.852 -0.488 0.187	0.975 -0.159 0.159	3824 971 3974	29.01	-201 86.46 82.97	23.9 1.32 0.36E 30	9.4 111.0 5.7	-2.158 0.00724	5.06	*****	1.33	*****	12	16	0.669	0.669	
314. 6250	0.844 -0.503 0.189	0.973 -0.167 0.161	3892 960 4055	29.53	-193 86.54 82.84	23.1 1.31 0.37E 30	9.4 111.1 5.8	-2.211 0.00757	1.60	*****	0.44	*****	20	16	0.692	0.692	
314. 6388	0.835 -0.516 0.191	0.971 -0.175 0.163	3958 950 4124	30.01	-184 86.63 82.72	22.4 1.30 0.38E 30	9.5 111.3 5.9	-2.260 0.00781	6.01	*****	1.66	*****	16	16	0.713	0.713	
314. 6527	0.826 -0.529 0.192	0.970 -0.183 0.164	4024 939 4192	30.50	-176 86.72 82.60	21.7 1.29 0.39E 30	9.5 111.5 6.0	-2.309 0.00803	6.28	*****	1.79	*****	20	8	0.369	0.369	
314. 6666	0.818 -0.542 0.194	0.968 -0.191 0.166	4089 929 4267	30.97	-168 86.81 82.49	21.1 1.29 0.40E 30	9.5 111.6 6.1	-2.361 0.00830	3.67	*****	1.07	*****	16	4	0.190	0.190	
314. 6805	0.809 -0.555 0.195	0.966 -0.198 0.167	4154 919 4340	31.42	-160 86.90 82.39	20.5 1.28 0.41E 30	9.5 111.8 6.2	-2.409 0.00847	3.80	*****	1.14	*****	12	4	0.196	0.196	
314. 6944	0.800 -0.567 0.197	0.964 -0.205 0.168	4218 909 4410	31.88	-153 86.99 82.28	19.9 1.27 0.42E 30	9.5 111.9 6.3	-2.461 0.00870	8.68	*****	2.69	*****	12	20	1.007	1.007	
314. 7083	0.790 -0.580 0.198	0.962 -0.213 0.169	4281 900 4478	32.31	-145 87.09 82.19	19.3 1.26 0.43E 30	9.5 112.1 6.4	-2.508 0.00881	9.06	*****	2.89	*****	12	4	0.207	0.207	

NORMALIZED BANDWIDTH VS LONGITUDE



NORMALIZED REFLECTED POWER VS LONGITUDE



CORE USAGE OBJECT CODE= 16840 BYTES,ARRAY AREA= 37808 BYTES,TOTAL AREA AVAILABLE= 250000 BYTES
COMPILE TIME= 1.67 SEC,EXECUTION TIME= 106.23 SEC, WATFIV - VERSION 1 LEVEL 1 JANUARY 1970 DATE= 70/276

KRD-56 20 SEPTEMBER 1967 DAY NO. 262

FRAME NO.	17	18	19	20	21	22	23	24	25	26
FDAY	0.52292	0.52431	0.52569	0.52708	0.52847	0.52986	0.53125	0.53264	0.53403	0.53542
DOFF	-52.	-57.	-61.	-65.	-70.	-75.	-80.	-84.	-88.	-93.
BW	5.2	5.5	6.0	6.5	7.0	7.5	8.1	8.8	9.5	10.4
PHI	83.5	83.0	82.4	81.8	81.2	80.6	79.9	79.3	78.5	77.8
ALT	2854.	2780.	2706.	2631.	2556.	2481.	2406.	2330.	2255.	2179.
VEL	1147.	1162.	1178.	1193.	1209.	1226.	1243.	1261.	1279.	1297.
SIGPRE	0.43	0.45	0.47	0.50	0.52	0.54	0.56	0.58	0.61	0.63
SIGFAC	0.25E 30	0.24E 30	0.23E 30	0.22E 30	0.22E 30	0.21E 30	0.20E 30	0.19E 30	0.18E 30	0.18E 30
PSI	-94.6	-93.9	-93.2	-92.5	-91.9	-91.3	-90.7	-90.1	-89.6	-89.1
THETA	87.1	87.2	87.3	87.4	87.5	87.7	87.8	88.0	88.2	88.5
XSAT	-0.828	-0.814	-0.798	-0.782	-0.764	-0.745	-0.725	-0.702	-0.679	-0.654
YSAT	0.560	0.580	0.602	0.623	0.645	0.666	0.688	0.710	0.733	0.755
ZSAT	0.027	0.022	0.017	0.012	0.006	0.000	-0.006	-0.012	-0.019	-0.025
XSPEC	0.096	0.105	0.115	0.125	0.135	0.146	0.157	0.169	0.181	0.194
YSPEC	0.992	0.992	0.992	0.991	0.990	0.989	0.987	0.985	0.983	0.980
ZSPEC	0.083	0.071	0.060	0.049	0.039	0.030	0.020	0.011	0.002	-0.007
REFA	28.4	45.2	46.5	62.9	61.0	68.5	65.7	61.8	57.4	46.2
IBWA	6.	6.	6.	10.	6.	10.	8.	6.	8.	10.
REFB	3.1	6.0	10.1	12.1	11.0	10.7	12.9	7.7	10.5	7.7
IBWB	6.	14.	8.	6.	10.	6.	8.	6.	8.	8.
G	107.4	108.1	108.7	109.3	109.9	110.4	110.9	111.3	111.8	112.2
X	2.2	2.2	2.1	2.0	1.9	1.8	1.7	1.5	1.4	1.2
D	4059.	3963.	3865.	3769.	3669.	3568.	3469.	3363.	3263.	3160.
RNA	16.7	24.6	23.4	28.7	26.2	27.4	24.4	21.4	18.4	13.8
RNB	1.8	3.3	5.1	5.6	4.7	4.3	4.8	2.7	3.4	2.3
BWNA	1.15	1.07	0.99	1.54	0.86	0.80	0.99	0.91	0.63	0.96
BWNB	1.15	2.50	1.32	0.93	1.43	0.80	0.99	0.68	0.84	0.77
ALGGH	0.86	0.87	0.84	0.81	0.77	0.74	0.71	0.63	0.59	0.51
DLGGH	0.0048	0.0050	0.0050	0.0048	0.0046	0.0043	0.0039	0.0033	0.0028	0.0020

PCLARIMETRY DATA

TUTAMP	9.	13.	21.	19.	26.	32.	26.	22.	27.	25.
PLAMP	8.	12.	15.	15.	22.	23.	22.	19.	23.	19.
UPLAMP	1.	1.	6.	4.	4.	9.	4.	3.	4.	6.
PLWIC	3.	5.	6.	7.	5.	6.	7.	7.	9.	11.
UPLWID	3.	3.	5.	8.	10.	7.	13.	6.	8.	5.
TOTPWR	27.	63.	120.	137.	150.	201.	206.	151.	239.	239.
PLPWR	24.	60.	90.	105.	110.	138.	154.	133.	207.	209.
UPLPWR	3.	3.	30.	32.	40.	63.	52.	18.	32.	30.
PP/UPP	8.00	20.00	3.00	3.28	2.75	2.19	2.96	7.39	6.47	6.97
PA/UPA	8.00	12.00	2.50	3.75	5.50	2.56	5.50	6.33	5.75	3.17
PW/UPW	1.00	1.67	1.20	0.88	0.50	0.86	0.54	1.17	1.13	2.20
PLSYM	0	0	0	1	0	0	0	0	0	0
UPLSYM	0	C	0	0	0	0	0	0	0	0

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FRAME NO.	27	28	29	30	31	32	33	34	35	36
FDAY	C.53681	0.53819	0.53958	0.54097	0.54236	0.54375	0.54514	0.54653	0.54792	0.54931
DOFF	-97.	-102.	-106.	-110.	-115.	-119.	-123.	-126.	-130.	-133.
BW	11.3	12.3	13.6	14.9	16.4	18.2	19.9	22.4	24.8	27.7
PHI	77.0	76.2	75.4	74.5	73.5	72.5	71.5	70.4	69.2	67.9
ALT	2104.	2029.	1955.	1880.	1807.	1734.	1661.	1591.	1522.	1454.
VEL	1316.	1335.	1355.	1374.	1394.	1415.	1436.	1457.	1478.	1499.
SIGPRE	0.66	0.68	0.71	0.74	0.77	0.80	0.83	0.87	0.91	0.95
SIGFAC	C.17E 30	0.17E 30	0.16E 30	0.15E 30	0.15E 30	0.14E 30	0.14E 30	0.13E 30	0.12E 30	0.12E 30
PSI	-88.5	-88.0	-87.6	-87.1	-86.7	-86.3	-85.9	-85.6	-85.3	-85.0
THETA	88.7	89.0	89.3	89.6	90.0	90.4	90.8	91.3	91.8	92.3
XSAT	-0.625	-0.597	-0.565	-0.532	-0.497	-0.458	-0.420	-0.375	-0.330	-0.282
YSAT	0.778	0.801	0.823	0.844	0.865	0.884	0.904	0.921	0.938	0.952
ZSAT	-0.032	-0.039	-0.046	-0.053	-0.061	-0.069	-0.077	-0.085	-0.094	-0.102
XSPEC	0.209	0.224	0.239	0.254	0.269	0.286	0.303	0.322	0.341	0.362
YSPEC	0.977	0.974	0.970	0.966	0.961	0.956	0.951	0.944	0.937	0.928
ZSPEC	-0.016	-0.024	-0.032	-0.040	-0.048	-0.055	-0.063	-0.070	-0.077	-0.084
REFA	38.0	38.3	52.1	60.1	35.6	38.9	37.0	42.9	42.6	45.2
IBWA	10.	10.	12.	14.	14.	16.	20.	18.	14.	18.
REFB	6.8	6.1	9.8	9.4	16.2	17.6	20.6	26.3	24.9	29.3
IBWB	4.	10.	14.	14.	24.	14.	4.	6.	8.	26.
G	112.5	112.9	113.1	113.4	113.6	113.6	113.7	113.6	113.5	113.3
X	1.0	0.8	0.5	0.3	0.0	-0.2	-0.4	-0.7	-1.0	-1.3
D	3053.	2954.	2847.	2739.	2634.	2522.	2420.	2308.	2204.	2099.
RNA	10.4	9.9	12.4	13.2	7.3	7.4	6.5	6.9	6.4	6.2
RNB	1.9	1.6	2.3	2.1	3.3	3.3	3.6	4.3	3.7	4.0
BWNA	0.88	0.81	0.88	0.94	0.85	0.88	1.00	0.80	0.56	0.65
BWNB	0.35	0.81	1.03	0.94	1.46	0.77	0.20	0.27	0.32	0.94
ALGGH	C.42	0.34	0.21	0.12	0.00	-0.08	-0.16	-0.27	-0.36	-0.44
DLGGH	0.0014	0.0007	0.0002	-0.0001	0.0000	0.0005	0.0015	0.0039	0.0076	0.0131

POLARIMETRY DATA

TOTAMP	22.	22.	20.	17.	16.	18.	20.	18.	18.	14.
PLAMP	15.	14.	13.	11.	10.	11.	10.	9.	10.	6.
UPLAMP	7.	8.	7.	6.	6.	7.	10.	9.	8.	8.
PLWID	9.	10.	9.	9.	11.	13.	16.	16.	13.	12.
UPLWID	6.	7.	11.	15.	20.	12.	13.	11.	11.	20.
TOTPWR	177.	196.	194.	189.	230.	227.	290.	243.	218.	232.
PLPWR	135.	140.	117.	99.	110.	143.	160.	144.	130.	72.
UPLPWR	42.	56.	77.	90.	120.	84.	130.	99.	88.	160.
PP/UPP	3.21	2.50	1.52	1.10	0.92	1.70	1.23	1.45	1.48	0.45
PA/UPA	2.14	1.75	1.86	1.83	1.67	1.57	1.00	1.00	1.25	0.75
PW/UPW	1.50	1.43	0.82	0.60	0.55	1.08	1.23	1.45	1.18	0.60
PLSYM	0	0	1	0	0	0	0	1	0	0
UPLSYM	0	0	0	0	0	0	0	1	1	1

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XKD-56 20 SEPTEMBER 1967 DAY NO. 262

FRAME NO.	37
FDAY	0.55069
DOFF	-136.
BW	31.2
PHI	66.6
ALT	1389.
VEL	152C.
SIGPRE	1.00
SIGFAC	C.11E 3C
PSI	-84.8
THE TA	93.0
XSAT	-C.230
YSAT	0.965
ZSAT	-C.111
XSPEC	0.383
YSPEC	0.919
ZSPEC	-0.091
REFA	35.4
IBWA	26.
REFB	30.5
IBWB	20.
G	112.9
X	-1.7
D	1993.
RNA	4.5
RNB	3.9
BWNA	C.83
BWNB	0.64
ALGGH	-0.52
DLGGH	C.0223

POLARIMETRY DATA

TCTAMP	13.
PLAMP	6.
UPLAMP	7.
PLWID	19.
UPLWID	2C.
TOTPWR	254.
PLPWR	114.
UPLPWR	14C.
PP/UPP	0.81
PA/UPA	C.86
PW/UPW	C.95
PLSYM	0
UPLSYM	1

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FRAME NO.	1	2	3	4	5	6	7	8	9	10
FDAY	C.48472	0.48611	0.48750	0.48889	0.49028	0.49167	0.49306	0.49444	0.49583	0.49722
DUFF	-88.	-92.	-94.	-97.	-100.	-102.	-105.	-107.	-109.	-112.
BW	8.5	9.0	9.6	10.3	11.0	11.8	12.6	13.6	14.6	15.8
PHI	77.0	76.4	75.8	75.2	74.5	73.8	73.1	72.4	71.6	70.8
ALT	2821.	2748.	2674.	2601.	2527.	2452.	2378.	2304.	2229.	2155.
VEL	1153.	1168.	1184.	1200.	1216.	1233.	1249.	1267.	1285.	1303.
SIGPRE	0.67	0.68	0.70	0.72	0.74	0.75	0.77	0.79	0.81	0.83
SIGFAC	0.25E 30	0.24E 30	0.23E 30	0.22E 30	0.22E 30	0.21E 30	0.20E 30	0.19E 30	0.18E 30	0.18E 30
PSI	-91.1	-90.6	-90.2	-89.8	-89.3	-88.9	-88.5	-88.1	-87.8	-88.1
THETA	86.2	86.3	86.5	86.7	86.9	87.2	87.4	87.7	88.0	88.1
XSAT	-0.667	-0.649	-0.627	-0.604	-0.581	-0.556	-0.531	-0.503	-0.475	-0.445
YSAT	0.744	0.761	0.779	0.796	0.813	0.830	0.847	0.863	0.879	0.894
ZSAT	C.020	0.015	0.009	0.004	-0.002	-0.007	-0.013	-0.019	-0.026	-0.033
XSPEC	C.229	0.239	0.251	0.262	0.274	0.285	0.296	0.308	0.321	0.334
YSPEC	0.973	0.971	0.968	0.965	0.961	0.958	0.955	0.951	0.947	0.942
ZSPEC	C.027	0.019	0.012	0.005	-0.001	-0.008	-0.015	-0.021	-0.028	-0.034
REFA	22.6	25.4	23.8	29.7	27.2	30.5	32.1	30.2	35.9	38.2
IBWA	8.	8.	8.	6.	12.	10.	10.	18.	10.	14.
REFB	16.2	6.5	10.0	8.5	10.0	11.1	14.3	13.0	13.2	16.4
IBWB	8.	14.	14.	10.	10.	10.	16.	16.	16.	22.
G	111.5	111.9	112.2	112.5	112.8	113.1	113.3	113.5	113.8	113.3
X	3.0	2.9	2.7	2.6	2.4	2.2	2.0	1.8	1.6	1.5
D	3837.	3748.	3652.	3552.	3458.	3357.	3260.	3157.	3059.	2958.
RNA	8.3	8.9	7.8	9.2	8.0	8.5	8.5	7.6	8.5	8.5
RNB	5.9	2.3	3.3	2.6	2.9	3.1	3.8	3.3	3.1	3.6
BWNA	C.94	0.89	0.83	0.58	1.09	0.85	0.80	1.32	0.68	0.88
BWNB	0.94	1.55	1.45	0.97	0.91	0.85	1.27	1.18	1.09	1.39
ALGGH	1.30	1.25	1.16	1.11	1.02	0.92	0.83	0.73	0.63	0.59
DLGGH	0.0052	0.0040	0.0025	0.0011	-0.0004	-0.0020	-0.0034	-0.0047	-0.0060	-0.0071

PCLARIMETRY DATA

TGTAMP	30.	29.	28.	33.	24.	25.	24.	22.	26.	27.
PLAMP	20.	19.	17.	22.	12.	15.	11.	10.	12.	14.
UPLAMP	10.	10.	11.	11.	12.	10.	13.	12.	14.	13.
PLWID	6.	6.	7.	6.	8.	8.	7.	11.	9.	10.
UPLWID	13.	9.	8.	10.	14.	11.	15.	18.	19.	20.
ICTPWR	250.	204.	207.	242.	264.	230.	272.	326.	374.	400.
PLPWR	120.	114.	119.	132.	96.	120.	77.	110.	108.	140.
UPLPWR	130.	90.	88.	110.	168.	110.	195.	216.	266.	260.
PP/UPP	0.92	1.27	1.35	1.20	0.57	1.09	0.39	0.51	0.41	0.54
PA/UPA	2.00	1.90	1.55	2.00	1.00	1.50	0.85	0.83	0.86	1.08
PW/UPW	0.46	0.67	0.88	0.60	0.57	0.73	0.47	0.61	0.47	0.50
PLSYM	0	0	0	0	0	0	0	1	0	1
UPLSYM	0	0	1	0	1	1	0	1	0	1

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FRAME NO.	11	12	13	14	15	16	17	18	19	20
FDAY	C.49861	0.50000	0.50139	0.50278	0.50417	0.50556	0.50694	0.50833	0.50972	0.51111
DFFF	-114.	-116.	-117.	-118.	-119.	-120.	-121.	-120.	-120.	-120.
BW	17.2	18.5	20.3	22.1	24.2	26.6	28.9	32.2	35.5	39.3
PHI	70.0	69.1	68.2	67.2	66.2	65.1	64.0	62.8	61.5	60.1
ALT	2081.	2007.	1934.	1861.	1789.	1718.	1647.	1579.	1511.	1445.
VEL	1322.	1340.	1360.	1379.	1399.	1420.	1440.	1460.	1481.	1501.
SIGPRE	0.86	0.88	0.91	0.94	0.97	1.00	1.03	1.07	1.12	1.16
SIGFAC	0.17E 30	0.16E 30	0.16E 30	0.15E 30	0.15E 30	0.14E 30	0.13E 30	0.13E 30	0.12E 30	0.12E 30
PSI	-89.2	-90.3	-90.0	-89.6	-89.3	-89.0	-88.7	-88.4	-88.2	-88.0
THETA	88.0	87.9	88.2	88.5	88.8	89.2	89.5	90.0	90.4	90.9
XSAT	-0.412	-0.379	-0.342	-0.305	-0.264	-0.220	-0.176	-0.128	-0.079	-0.028
YSAT	0.909	0.924	0.937	0.950	0.961	0.971	0.981	0.986	0.991	0.992
ZSAT	-0.040	-0.047	-0.055	-0.062	-0.070	-0.077	-0.085	-0.093	-0.102	-0.110
XSPEC	0.347	0.361	0.376	0.391	0.408	0.427	0.445	0.464	0.483	0.504
YSPEC	C.937	0.932	0.925	0.918	0.910	0.901	0.892	0.881	0.870	0.858
ZSPEC	-0.041	-0.047	-0.053	-0.060	-0.066	-0.072	-0.078	-0.084	-0.090	-0.096
REFA	36.5	51.6	53.3	63.2	64.7	68.2	69.5	76.8	76.6	58.5
IBWA	20.	18.	22.	26.	20.	14.	18.	16.	32.	32.
REFB	17.2	26.7	25.7	34.5	40.6	49.2	47.7	50.5	48.9	47.9
IBWB	14.	14.	24.	28.	30.	40.	44.	30.	28.	30.
G	112.3	111.2	111.4	111.6	111.7	111.8	111.9	111.9	111.8	111.6
X	1.6	1.6	1.4	1.2	0.9	0.7	0.4	0.0	-0.2	-0.5
D	2853.	2754.	2649.	2549.	2445.	2341.	2243.	2137.	2037.	1934.
RNA	7.5	10.0	9.6	10.7	10.2	10.1	9.6	9.9	9.1	6.5
RNB	3.5	5.2	4.6	5.8	6.4	7.3	6.6	6.5	5.8	5.3
BWNA	1.17	0.97	1.08	1.18	0.83	0.53	0.62	0.50	0.90	0.81
BWNB	0.82	0.76	1.18	1.27	1.24	1.51	1.52	0.93	0.79	0.76
ALGGH	0.64	0.66	0.54	0.43	0.29	0.19	0.09	0.00	-0.02	-0.00
DLGGH	-0.0093	-0.0115	-0.0133	-0.0143	-0.0131	-0.0121	-0.0079	0.0000	0.0048	0.0124

POLARIMETRY DATA

TOTAMP	31.	33.	30.	35.	33.	33.	44.	37.	32.	32.
PLAMP	11.	21.	20.	18.	18.	18.	30.	23.	15.	18.
UPLAMP	20.	12.	10.	17.	15.	15.	14.	14.	17.	14.
PLWID	14.	14.	19.	15.	12.	16.	15.	18.	14.	15.
UPLWID	22.	20.	23.	20.	30.	34.	40.	42.	31.	38.
TOTPWR	594.	534.	610.	610.	666.	798.	1010.	1002.	737.	802.
PLPWR	154.	294.	380.	270.	216.	288.	450.	414.	210.	270.
UPLPWR	440.	240.	230.	340.	450.	510.	560.	588.	527.	532.
PP/UPP	0.35	1.22	1.65	0.79	0.48	0.56	0.80	0.70	0.40	0.51
PA/UPA	0.55	1.75	2.00	1.06	1.20	1.20	2.14	1.64	0.88	1.29
PW/UPW	C.64	0.70	0.83	0.75	0.40	0.47	0.38	0.43	0.45	0.39
PLSYM	0	1	1	1	1	1	1	1	1	0
UPLSYM	0	1	1	1	1	1	1	1	1	1

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FRAME NO.	21	22	23	24	25	26	27	28	29	30
FDAY	0.51250	0.51389	0.51528	0.51667	0.51806	0.51944	0.52083	0.52222	0.52361	0.52500
DOFF	-120.	-119.	-119.	-118.	-118.	-119.	-120.	-123.	-126.	-132.
BW	43.7	48.2	54.2	60.3	67.3	75.3	83.2	93.1	102.9	113.1
PHI	58.6	57.2	55.4	53.7	51.8	49.7	47.6	45.2	42.8	40.1
ALT	1382.	1319.	1262.	1205.	1152.	1103.	1054.	1016.	977.	945.
VEL	1522.	1542.	1562.	1582.	1601.	1618.	1636.	1651.	1666.	1678.
SIGPRE	1.21	1.26	1.32	1.38	1.45	1.52	1.59	1.66	1.73	1.81
SIGFAC	0.11E 30	0.11E 30	0.11E 30	0.10E 30	0.97E 29	0.94E 29	0.91E 29	0.89E 29	0.86E 29	0.84E 29
PSI	-87.8	-87.6	-87.6	-87.6	-87.7	-87.9	-88.1	-88.7	-89.3	-90.2
THETA	91.4	92.0	92.7	93.3	94.1	94.9	95.7	96.6	97.5	98.4
XSAT	0.026	0.080	0.138	0.197	0.257	0.319	0.381	0.445	0.508	0.569
YSAT	0.991	0.989	0.979	0.968	0.952	0.931	0.909	0.874	0.839	0.798
ZSAT	-0.119	-0.127	-0.135	-0.144	-0.152	-0.159	-0.167	-0.173	-0.179	-0.184
XSPEC	0.525	0.547	0.572	0.597	0.623	0.650	0.677	0.707	0.738	0.768
YSPEC	0.844	0.830	0.812	0.793	0.772	0.748	0.724	0.691	0.658	0.622
ZSPEC	-0.101	-0.107	-0.113	-0.118	-0.123	-0.128	-0.133	-0.137	-0.141	-0.144
REFA	44.9	37.3	32.5	30.5	33.6	25.1	19.1	12.5	11.0	16.0
IBWA	34.	34.	22.	20.	18.	18.	30.	52.	90.	100.
REFB	39.0	47.5	44.3	55.5	53.9	48.1	41.8	43.4	39.0	33.1
IBWB	28.	24.	26.	22.	18.	14.	20.	48.	56.	88.
G	111.2	110.9	110.4	109.8	109.0	108.1	107.2	105.7	104.3	102.6
X	-0.8	-1.1	-1.5	-1.9	-2.3	-2.7	-3.0	-3.2	-3.5	-3.8
D	1836.	1743.	1646.	1556.	1467.	1383.	1306.	1229.	1164.	1104.
RNA	4.6	3.6	2.9	2.5	2.5	1.8	1.3	0.8	0.6	0.9
RNB	4.0	4.5	3.9	4.5	4.1	3.4	2.8	2.7	2.3	1.8
BWNA	0.78	0.71	0.41	0.33	0.27	0.24	0.36	0.56	0.87	0.88
BWNB	0.64	0.50	0.48	0.37	0.27	0.19	0.24	0.52	0.54	0.78
ALGGH	0.07	0.19	0.41	0.69	1.01	1.35	1.61	1.79	1.94	2.04
DLGGH	0.0198	0.0252	0.0289	0.0277	0.0211	0.0103	-0.0007	-0.0112	-0.0172	-0.0199

POLARIMETRY DATA

TOTAMP	25.	28.	28.	43.	47.	39.	34.	20.	17.	0.
PLAMP	11.	13.	15.	26.	30.	20.	17.	9.	7.	0.
UPLAMP	14.	15.	13.	17.	17.	19.	17.	11.	10.	0.
PLWID	20.	13.	13.	13.	12.	13.	16.	17.	11.	0.
UPLWID	38.	28.	29.	25.	21.	25.	17.	25.	29.	0.
TUTPWR	752.	589.	572.	763.	717.	735.	561.	428.	367.	0.
PLPWR	220.	169.	195.	338.	360.	260.	272.	153.	77.	0.
UPLPWR	532.	420.	377.	425.	357.	475.	289.	275.	290.	0.
PP/UPP	0.41	0.40	0.52	0.80	1.01	0.55	0.94	0.56	0.27	0.00
PA/UPA	0.79	0.87	1.15	1.53	1.76	1.05	1.00	0.82	0.70	0.00
PW/UPW	0.53	0.46	0.45	0.52	0.57	0.52	0.94	0.68	0.38	0.00
PLSYM	0	1	0	1	0	0	1	1	0	0
UPLSYM	1	1	1	1	0	0	0	0	0	0

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XRD-58 21 SEPTEMBER 1967 DAY NO. 263

FRAME NO.	31	32	33	34
FOAY	C.52639	0.52778	0.52917	0.53056
DUFF	-14C.	-148.	-160.	-173.
BW	123.8	134.5	143.9	153.4
PHI	37.4	34.6	31.5	28.4
ALT	918.	892.	880.	867.
VEL	1689.	1699.	1704.	1709.
SIGPRE	1.88	1.95	2.01	2.06
SIGFAC	0.83E 29	0.81E 29	0.80E 29	0.79E 29
PSI	-91.4	-92.5	-94.6	-96.7
THETA	99.4	100.4	101.3	102.1
XSAT	0.628	0.686	0.736	0.786
YSAT	0.750	0.702	0.642	0.582
ZSAT	-0.188	-0.192	-0.193	-0.194
XSPEC	0.757	0.827	0.854	0.881
YSPEC	0.582	0.542	0.494	0.445
ZSPEC	-0.147	-0.149	-0.149	-0.149
REFA	14.2	16.1	24.8	19.8
IBWA	88.	84.	94.	100.
REFB	4C.9	29.9	43.6	48.7
IBWB	86.	102.	86.	120.
G	100.5	98.4	95.6	92.7
X	-4.0	-4.2	-4.1	-4.1
D	1049.	1006.	966.	938.
RNA	0.7	0.8	1.2	0.9
RNB	2.2	1.5	2.1	2.3
BWNA	0.71	0.62	0.65	0.65
BWNB	0.69	0.76	0.60	0.78
ALGGH	2.04	2.01	1.83	1.70
DLGGH	-C.C194	-0.0171	-0.0130	-0.0097

POLARIMETRY DATA

TLTAMP	C.	0.	0.	0.
PLAMP	0.	0.	0.	0.
UPLAMP	C.	0.	0.	0.
PLWID	0.	0.	0.	0.
UPLWID	C.	0.	0.	0.
TOTPWR	C.	0.	0.	0.
PLPWR	0.	0.	0.	0.
UPLPWR	C.	0.	0.	0.
PP/UPP	0.00	0.00	0.00	0.00
PA/UPA	0.00	0.00	0.00	0.00
PW/UPW	0.00	0.00	0.00	0.00
PLSYM	0	0	0	0
UPLSYM	C	0	0	0

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FRAME NO.	1	2	3	4	5	6	7	8	9	10
FDAY	C.40035	0.40104	0.40174	0.40243	0.40312	0.40382	0.40451	0.40521	0.40590	0.40660
DUFF	-42.	-43.	-43.	-44.	-45.	-46.	-47.	-48.	-49.	-50.
BW	3.3	3.4	3.4	3.5	3.5	3.5	3.6	3.6	3.7	3.7
PHI	83.7	83.6	83.4	83.3	83.2	83.0	82.9	82.7	82.6	82.4
ALT	4926.	4899.	4872.	4845.	4818.	4790.	4763.	4735.	4707.	4679.
VEL	807.	811.	815.	818.	822.	826.	830.	833.	837.	841.
SIGPRE	0.49	0.50	0.50	0.51	0.51	0.52	0.52	0.53	0.54	0.54
SIGFAC	0.52E 30	0.52E 30	0.52E 30	0.51E 30	0.51E 30	0.50E 30	0.49E 30	0.49E 30	0.48E 30	0.48E 30
PSI	-106.3	-106.0	-105.8	-105.5	-105.2	-105.0	-104.7	-104.5	-104.2	-104.0
THETA	84.7	84.6	84.6	84.6	84.6	84.6	84.5	84.5	84.5	84.5
XSAT	-0.872	-0.869	-0.866	-0.863	-0.860	-0.857	-0.853	-0.849	-0.846	-0.842
YSAT	0.476	0.481	0.486	0.491	0.497	0.503	0.509	0.516	0.522	0.528
ZSAT	0.118	0.117	0.116	0.115	0.114	0.113	0.113	0.111	0.111	0.109
XSPEC	0.139	0.141	0.144	0.146	0.149	0.152	0.155	0.158	0.161	0.164
YSPEC	0.968	0.968	0.969	0.970	0.970	0.970	0.970	0.971	0.971	0.971
ZSPEC	C.210	0.205	0.201	0.197	0.193	0.189	0.184	0.180	0.176	0.172
REFA	29.9	31.3	41.2	35.7	36.2	33.2	30.7	35.6	23.0	47.4
IBWA	8.	4.	8.	8.	8.	8.	8.	8.	8.	0.
REFB	10.0	10.7	14.0	11.8	10.8	8.4	9.3	9.7	7.0	9.1
IBWB	4.	4.	4.	4.	8.	4.	4.	4.	8.	0.
G	97.2	97.5	97.8	98.1	98.3	98.6	98.9	99.1	99.4	99.6
X	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.4
D	6247.	6214.	6181.	6147.	6117.	6086.	6051.	6016.	5986.	5950.
RNA	31.1	31.5	41.2	34.8	34.9	31.2	28.5	32.2	20.3	41.4
RNB	10.4	10.8	14.1	11.4	10.4	7.8	8.6	8.8	6.2	7.9
BWNA	2.40	1.19	2.34	2.32	2.28	2.26	2.22	2.19	2.17	0.00
BWNB	1.20	1.19	1.17	1.16	2.28	1.13	1.11	1.10	2.17	0.00
ALGGH	1.73	1.74	1.75	1.80	1.82	1.83	1.84	1.85	1.86	1.91
DLGGH	0.0131	0.0134	0.0137	0.0144	0.0147	0.0150	0.0153	0.0157	0.0160	0.0167

PCLARIMETRY DATA

TGTAMP	110.	112.	115.	116.	114.	111.	93.	92.	92.	94.
PLAMP	105.	105.	105.	105.	105.	105.	86.	86.	86.	86.
UPLAMP	5.	7.	10.	11.	9.	6.	7.	6.	6.	8.
PLWID	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
UPLWID	5.	3.	5.	3.	3.	3.	4.	4.	5.	5.
TGTPWR	235.	231.	260.	243.	237.	228.	200.	196.	202.	212.
PLPWR	210.	210.	210.	210.	210.	210.	172.	172.	172.	172.
UPLPWR	25.	21.	50.	33.	27.	18.	28.	24.	30.	40.
PP/UPP	8.40	10.00	4.20	6.36	7.78	11.67	6.14	7.17	5.73	4.30
PA/UPA	21.00	15.00	10.50	9.55	11.67	17.50	12.29	14.33	14.33	10.75
PN/UPN	0.40	0.67	0.40	0.67	0.67	0.67	0.50	0.50	0.40	0.40
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

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FRAME NO.	11	12	13	14	15	16	17	18	19	20
FCAY	C.40729	0.40799	0.40868	0.40937	0.41007	0.41076	0.41146	0.41215	0.41285	0.41354
DOFF	-51.	-52.	-53.	-54.	-55.	-56.	-57.	-58.	-59.	-60.
BW	3.8	3.8	3.9	4.0	4.0	4.1	4.1	4.2	4.3	4.3
PHI	82.3	82.1	82.0	81.8	81.7	81.5	81.3	81.2	81.0	80.9
ALT	465C.	4622.	4594.	4565.	4536.	4507.	4478.	4449.	4420.	4390.
VEL	845.	850.	854.	858.	862.	866.	871.	875.	879.	883.
SIGPRE	0.55	0.55	0.55	0.56	0.56	0.57	0.57	0.58	0.59	0.59
SIGFAC	0.47E 30	0.47E 30	0.47E 30	0.46E 30	0.46E 30	0.45E 30	0.45E 30	0.45E 30	0.44E 30	0.44E 30
PSI	-103.7	-103.5	-103.2	-103.0	-102.8	-102.5	-102.3	-102.1	-101.9	-101.6
THETA	84.5	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
XSAT	-0.839	-0.836	-0.832	-0.829	-0.825	-0.821	-0.817	-0.814	-0.810	-0.806
YSAT	0.533	0.539	0.545	0.550	0.556	0.561	0.567	0.573	0.578	0.584
ZSAT	0.108	0.107	0.106	0.105	0.103	0.102	0.101	0.100	0.099	0.097
XSPEC	0.167	0.169	0.171	0.174	0.176	0.179	0.181	0.184	0.187	0.189
YSPEC	0.971	0.971	0.972	0.972	0.972	0.972	0.972	0.973	0.973	0.973
ZSPEC	0.168	0.164	0.161	0.157	0.153	0.150	0.146	0.142	0.139	0.135
REFA	34.6	30.8	27.4	30.8	31.4	26.8	29.1	31.7	26.8	33.8
IBWA	8.	8.	8.	8.	8.	8.	8.	8.	8.	8.
REFB	10.2	11.5	8.3	12.0	10.6	12.2	12.9	9.3	10.3	8.8
IBWB	4.	4.	8.	8.	8.	8.	8.	8.	4.	8.
G	99.9	100.1	100.4	100.6	100.9	101.1	101.3	101.6	101.8	102.0
X	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.5
D	5918.	5888.	5851.	5819.	5782.	5745.	5709.	5680.	5644.	5607.
RNA	29.4	25.9	22.9	25.1	25.3	21.0	22.6	24.0	19.7	24.7
RNB	8.7	9.7	6.9	9.7	8.5	9.6	10.0	7.0	7.6	6.5
BWNA	2.11	2.08	2.05	2.02	1.99	1.97	1.94	1.91	1.88	1.85
BWNB	1.05	1.04	2.05	2.02	1.99	1.97	1.94	1.91	0.94	1.85
ALGGH	1.92	1.93	1.94	1.95	1.96	1.97	1.99	1.99	2.00	2.06
DLGGH	0.0169	0.0173	0.0175	0.0178	0.0181	0.0184	0.0187	0.0189	0.0192	0.0199

PCLARIMETRY DATA

TOTAMP	79.	78.	80.	81.	82.	82.	81.	84.	83.	81.
PLAMP	72.	72.	72.	72.	72.	71.	71.	71.	71.	71.
UPLAMP	7.	6.	8.	9.	10.	11.	10.	13.	12.	10.
PLWID	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
UPLWID	5.	5.	4.	5.	4.	3.	3.	3.	4.	4.
TOTpWR	179.	174.	176.	189.	184.	175.	172.	181.	190.	182.
PLPWR	144.	144.	144.	144.	144.	142.	142.	142.	142.	142.
UPLPWR	35.	30.	32.	45.	40.	33.	30.	39.	48.	40.
PP/UPP	4.11	4.80	4.50	3.20	3.60	4.30	4.73	3.64	2.96	3.55
PA/UPA	10.29	12.00	9.00	8.00	7.20	6.45	7.10	5.46	5.92	7.10
PW/UPW	C.40	0.40	0.50	0.40	0.50	0.67	0.67	0.67	0.50	0.50
PLSYM	0	C	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

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FRAME NO.	21	22	23	24	25	26	27	28	29	30
FDAY	0.41424	0.41493	0.41562	0.41632	0.41701	0.41771	0.41840	0.41910	0.41979	0.42049
DOFF	-61.	-62.	-63.	-64.	-65.	-66.	-67.	-68.	-69.	-70.
BW	4.4	4.5	4.5	4.6	4.7	4.8	4.8	4.9	5.0	5.1
PHI	80.7	80.5	80.4	80.2	80.0	79.8	79.6	79.5	79.3	79.1
ALT	4360.	4330.	4299.	4269.	4239.	4208.	4177.	4146.	4115.	4084.
VEL	888.	892.	896.	901.	905.	910.	915.	920.	925.	930.
SIGPRE	0.60	0.60	0.60	0.61	0.61	0.62	0.63	0.63	0.64	0.64
SIGFAC	0.43E 30	0.43E 30	0.43E 30	0.42E 30	0.42E 30	0.41E 30	0.41E 30	0.41E 30	0.40E 30	0.40E 30
PSI	-101.4	-101.2	-101.0	-100.8	-100.6	-100.3	-100.1	-99.9	-99.7	-99.5
THETA	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
XSAT	-0.802	-0.797	-0.793	-0.789	-0.785	-0.780	-0.775	-0.770	-0.765	-0.760
YSAT	0.590	0.595	0.601	0.607	0.613	0.619	0.625	0.631	0.637	0.643
ZSAT	0.096	0.095	0.094	0.093	0.091	0.090	0.088	0.087	0.086	0.084
XSPEC	0.192	0.194	0.197	0.200	0.202	0.205	0.208	0.211	0.214	0.217
YSPEC	0.973	0.972	0.972	0.972	0.972	0.972	0.971	0.971	0.971	0.971
ZSPEC	0.132	0.128	0.125	0.122	0.118	0.115	0.111	0.108	0.105	0.101
REFA	28.1	26.8	28.1	27.3	22.2	26.7	34.7	22.2	31.7	31.6
IBWA	8.	8.	12.	8.	8.	8.	8.	8.	12.	8.
REFB	11.4	9.6	10.7	4.7	7.1	8.6	14.1	4.5	10.6	9.8
IBWB	8.	8.	8.	8.	12.	8.	8.	8.	8.	8.
G	102.3	102.5	102.7	102.9	103.1	103.3	103.6	103.8	104.0	104.2
X	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
D	5573.	5530.	5495.	5462.	5426.	5387.	5348.	5310.	5271.	5233.
RNA	20.0	18.8	19.5	18.5	14.9	17.4	22.1	14.0	19.4	19.2
RNB	8.1	6.8	7.5	3.2	4.8	5.6	8.9	2.8	6.5	5.9
BWNA	1.82	1.80	2.65	1.74	1.71	1.68	1.65	1.63	2.40	1.57
BWNB	1.82	1.80	1.77	1.74	2.57	1.68	1.65	1.63	1.60	1.57
ALGGH	2.07	2.08	2.09	2.10	2.11	2.12	2.13	2.14	2.15	2.16
DLGGH	0.0200	0.0203	0.0205	0.0207	0.0209	0.0211	0.0211	0.0212	0.0213	0.0213

PCLARIMETRY DATA

TUTAMP	82.	77.	76.	71.	72.	70.	73.	71.	74.	70.
PLAMP	71.	71.	71.	65.	65.	65.	65.	65.	65.	65.
UPLAMP	11.	6.	5.	6.	7.	5.	8.	6.	9.	5.
PLWID	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
UPLWID	5.	7.	5.	4.	5.	5.	5.	4.	4.	5.
TGTPWR	157.	184.	167.	154.	165.	155.	170.	154.	166.	155.
PLPWR	142.	142.	142.	130.	130.	130.	130.	130.	130.	130.
UPLPWR	55.	42.	25.	24.	35.	25.	40.	24.	36.	25.
PP/UPP	2.58	3.38	5.68	5.42	3.71	5.20	3.25	5.42	3.61	5.20
PA/UPA	6.45	11.83	14.20	10.83	9.29	13.00	8.13	10.83	7.22	13.00
PW/UPW	0.40	0.29	0.40	0.50	0.40	0.40	0.40	0.50	0.50	0.40
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

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FRAME NO.	31	32	33	34	35	36	37	38	39
FDAY	C.42118	0.42188	0.42257	0.42326	0.42396	0.42465	0.42535	0.42604	0.42674
DCFF	-71.	-72.	-73.	-74.	-75.	-76.	-77.	-78.	-79.
BW	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0
PHI	78.9	78.7	78.6	78.4	78.2	78.0	77.8	77.6	77.4
ALT	4053.	4021.	3989.	3958.	3926.	3894.	3862.	3829.	3797.
VEL	935.	940.	944.	949.	955.	960.	965.	970.	975.
SIGPRE	0.65	0.65	0.65	0.66	0.66	0.67	0.67	0.67	0.68
SIGFAC	0.39E 30	0.39E 30	0.39E 30	0.38E 30	0.38E 30	0.37E 30	0.37E 30	0.37E 30	0.36E 30
PSI	-99.3	-99.1	-98.9	-98.7	-98.5	-98.3	-98.1	-97.9	-97.7
THETA	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.5
XSAT	-C.755	-0.749	-0.743	-0.738	-0.732	-0.726	-0.720	-0.715	-0.709
YSAT	0.650	0.657	0.663	0.670	0.676	0.682	0.688	0.695	0.701
ZSAT	C.083	0.081	0.080	0.079	0.077	0.076	0.074	0.072	0.071
XSPEC	C.221	0.225	0.228	0.232	0.236	0.239	0.242	0.245	0.248
YSPEC	0.970	0.969	0.969	0.968	0.968	0.967	0.967	0.967	0.966
ZSPEC	C.C98	0.C95	0.092	0.089	0.086	0.083	0.080	0.076	0.074
REFA	26.8	21.5	25.1	23.3	30.3	28.1	23.4	36.6	27.2
IBWA	8.	8.	8.	8.	12.	8.	8.	8.	8.
REFB	8.3	6.7	7.2	5.2	4.9	10.1	6.7	8.4	9.4
IBWB	8.	8.	8.	8.	8.	8.	8.	8.	4.
G	104.4	104.6	104.8	105.0	105.1	105.3	105.5	105.7	105.9
X	4.5	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
D	5200.	5161.	5118.	5086.	5045.	5004.	4962.	4927.	4887.
RNA	15.8	12.6	14.5	13.1	16.9	15.3	12.6	19.4	14.0
RNB	4.9	3.9	4.2	2.9	2.7	5.5	3.6	4.4	4.9
BWNA	1.54	1.52	1.49	1.47	2.15	1.41	1.38	1.35	1.33
BWNB	1.54	1.52	1.49	1.47	1.44	1.41	1.38	1.35	0.66
ALGGH	2.17	2.13	2.13	2.14	2.15	2.16	2.16	2.17	2.17
DLGGH	C.0214	0.0209	0.0209	0.0208	0.0209	0.0207	0.0206	0.0203	0.0200

POLARIMETRY DATA

TGTAMP	61.	58.	0.	57.	57.	49.	47.	48.	49.
PLAMP	50.	50.	0.	50.	50.	43.	43.	43.	43.
UPLAMP	11.	8.	0.	7.	7.	6.	4.	5.	6.
PLWID	2.	2.	0.	2.	2.	2.	2.	2.	2.
UPLWID	3.	3.	0.	4.	4.	3.	7.	4.	5.
TQTPWR	133.	124.	0.	128.	128.	104.	114.	106.	116.
PLPWR	100.	100.	0.	100.	100.	86.	86.	86.	86.
UPLPWR	33.	24.	0.	28.	28.	18.	28.	20.	30.
PP/UPP	3.03	4.17	0.00	3.57	3.57	4.78	3.07	4.30	2.87
PA/UPA	4.55	6.25	0.00	7.14	7.14	7.17	10.75	8.60	7.17
PW/UPW	0.67	0.67	0.00	0.50	0.50	0.67	0.29	0.50	0.40
PLSYM	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0

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FRAME NO.	1	2	3	4	5	6	7	8	9	10
FDAY	0.42674	0.42743	0.42812	0.42882	0.42951	0.43021	0.43090	0.43160	0.43229	0.43299
DOFF	-79.	-80.	-81.	-82.	-83.	-84.	-85.	-86.	-87.	-87.
BW	6.0	6.1	6.3	6.4	6.5	6.7	6.8	7.0	7.1	7.3
PHI	77.4	77.2	77.0	76.8	76.6	76.4	76.1	75.9	75.7	75.5
ALT	3797.	3764.	3731.	3698.	3665.	3632.	3598.	3564.	3530.	3497.
VEL	975.	981.	986.	992.	998.	1003.	1009.	1015.	1021.	1026.
SIGPNE	0.68	0.68	0.69	0.69	0.70	0.71	0.71	0.72	0.72	0.72
SIGFAC	0.36E 30	0.36E 30	0.35E 30	0.35E 30	0.35E 30	0.34E 30	0.34E 30	0.33E 30	0.32E 30	0.32E 30
PSI	-97.7	-97.5	-97.4	-97.2	-97.0	-96.8	-96.6	-96.4	-96.2	-96.1
THETA	84.5	84.5	84.5	84.5	84.5	84.6	84.6	84.6	84.6	84.7
XSAT	-0.709	-0.703	-0.696	-0.690	-0.684	-0.677	-0.671	-0.663	-0.656	-0.649
YSAT	0.701	0.707	0.714	0.720	0.726	0.733	0.739	0.745	0.752	0.758
ZSAT	0.071	0.069	0.068	0.066	0.064	0.063	0.061	0.059	0.057	0.056
XSPEC	0.248	0.252	0.255	0.258	0.261	0.264	0.268	0.271	0.275	0.279
YSPEC	0.966	0.966	0.965	0.964	0.963	0.962	0.962	0.961	0.960	0.959
ZSPEC	0.074	0.071	0.068	0.065	0.062	0.059	0.057	0.053	0.050	0.047
REFA	21.0	28.9	28.2	28.1	23.2	21.6	24.0	23.9	21.2	24.2
IBWA	8.	8.	8.	8.	8.	8.	8.	8.	12.	12.
REFB	6.9	10.3	10.2	11.0	5.6	9.4	9.3	8.4	9.6	6.9
IBWB	8.	8.	8.	8.	8.	8.	8.	8.	8.	8.
G	105.9	106.1	106.2	106.4	106.6	106.8	106.9	107.1	107.3	107.4
X	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2
D	4887.	4847.	4805.	4765.	4726.	4685.	4646.	4597.	4558.	4518.
RNA	10.8	14.8	14.0	13.8	11.1	10.0	11.0	10.7	9.4	10.6
RNB	3.6	5.3	5.1	5.4	2.7	4.4	4.3	3.8	4.2	3.0
BWNA	1.33	1.30	1.27	1.25	1.22	1.20	1.17	1.15	1.68	1.65
BWNB	1.33	1.30	1.27	1.25	1.22	0.60	1.17	1.15	1.12	1.10
ALGGH	2.17	2.18	2.14	2.14	2.14	2.15	2.15	2.10	2.10	2.11
DLGGH	0.0200	0.0197	0.0191	0.0187	0.0182	0.0177	0.0173	0.0163	0.0155	0.0150

PCLARIMETRY DATA

TOTAMP	53.	53.	54.	51.	52.	50.	45.	46.	47.	41.
PLAMP	45.	47.	45.	42.	44.	42.	40.	48.	39.	31.
UPLAMP	8.	6.	9.	9.	8.	8.	5.	6.	8.	10.
PLWID	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
UPLWID	4.	6.	6.	8.	6.	6.	8.	6.	6.	6.
TOTPWR	122.	130.	144.	156.	136.	132.	120.	116.	126.	122.
PLPWR	90.	94.	90.	84.	88.	84.	80.	80.	78.	62.
UPLPWR	32.	36.	54.	72.	48.	48.	40.	36.	48.	60.
PP/UPP	2.81	2.61	1.67	1.17	1.83	1.75	2.00	2.22	1.63	1.03
PA/UPA	5.63	7.83	5.00	4.67	5.50	5.25	8.00	6.67	4.88	3.10
PW/UPW	0.50	0.33	0.33	0.25	0.33	0.33	0.25	0.33	0.33	0.33
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	1	0	0	0	0	0

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FRAME NO.	11	12	13	14	15	16	17	18	19	20
FDAY	0.43368	0.43437	0.43507	0.43576	0.43646	0.43715	0.43785	0.43854	0.43924	0.43993
DOFF	-88.	-89.	-90.	-91.	-92.	-93.	-94.	-95.	-96.	-96.
BW	7.5	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0	9.3
PHI	75.3	75.0	74.8	74.5	74.3	74.1	73.8	73.6	73.3	73.0
ALT	3463.	3429.	3394.	3360.	3325.	3290.	3255.	3220.	3185.	3150.
VEL	1032.	1038.	1044.	1051.	1057.	1063.	1069.	1076.	1083.	1089.
SIGPRE	0.73	0.73	0.74	0.75	0.75	0.76	0.76	0.77	0.77	0.78
SIGFAC	0.31E 30	0.31E 30	0.30E 30	0.30E 30	0.30E 30	0.29E 30	0.29E 30	0.28E 30	0.28E 30	0.28E 30
PSI	-95.9	-95.7	-95.5	-95.3	-95.2	-95.0	-94.8	-94.6	-94.5	-94.3
THETA	84.7	84.7	84.8	84.8	84.8	84.9	84.9	84.9	85.0	85.0
XSAT	-0.642	-0.635	-0.627	-0.619	-0.611	-0.603	-0.594	-0.585	-0.575	-0.566
YSAT	0.764	0.770	0.777	0.783	0.789	0.796	0.802	0.809	0.816	0.823
ZSAT	0.054	0.052	0.050	0.048	0.046	0.044	0.042	0.040	0.038	0.036
XSPEC	0.282	0.286	0.290	0.293	0.297	0.301	0.305	0.310	0.315	0.320
YSPEC	0.958	0.957	0.956	0.955	0.954	0.953	0.952	0.951	0.949	0.947
ZSPEC	0.044	0.042	0.039	0.036	0.034	0.031	0.029	0.026	0.023	0.020
REFA	23.5	21.5	22.2	16.6	24.9	22.1	21.7	25.4	21.4	20.2
IBWA	12.	12.	12.	12.	8.	8.	8.	8.	8.	8.
REFB	7.2	6.4	9.9	3.5	8.5	7.9	10.4	8.5	9.3	4.6
IHWB	4.	12.	8.	12.	4.	20.	8.	8.	16.	12.
G	107.6	107.8	107.9	108.1	108.2	108.4	108.5	108.7	108.8	109.0
X	4.2	4.1	4.1	4.1	4.1	4.0	4.0	4.0	3.9	3.9
D	4476.	4435.	4393.	4348.	4303.	4263.	4215.	4173.	4128.	4088.
RNA	10.1	9.1	9.1	6.7	9.8	8.5	8.2	9.4	7.8	7.2
RNB	3.1	2.7	4.1	1.4	3.4	3.1	4.0	3.1	3.4	1.6
BWNA	1.01	1.57	1.54	1.50	0.98	0.95	0.93	0.91	0.89	0.86
BWNB	0.54	1.57	1.02	1.50	0.49	2.39	0.93	0.91	1.77	1.29
ALGGH	2.10	2.05	2.05	2.05	2.05	1.99	1.99	1.98	1.93	1.91
DLGGH	0.0141	0.0128	0.0120	0.0109	0.0100	0.0085	0.0074	0.0059	0.0045	0.0029

POLARIMETRY DATA

TLTAMP	44.	36.	42.	36.	41.	26.	33.	31.	30.	21.
PLAMP	37.	23.	33.	27.	33.	17.	18.	23.	20.	11.
UPLAMP	7.	13.	9.	9.	8.	9.	15.	8.	10.	10.
PLWIC	2.	2.	2.	3.	3.	3.	3.	3.	3.	4.
UPLWID	6.	5.	7.	6.	9.	6.	7.	7.	6.	45.
TUTPWR	116.	111.	129.	135.	171.	105.	159.	125.	120.	494.
PLPWR	74.	46.	66.	81.	99.	51.	54.	69.	60.	44.
UPLPWR	42.	65.	63.	54.	72.	54.	105.	56.	60.	450.
PP/UPP	1.76	0.71	1.05	1.50	1.38	0.94	0.51	1.23	1.00	0.10
PA/UPA	5.29	1.77	3.67	3.00	4.13	1.89	1.20	2.88	2.00	1.10
PW/UPW	0.33	0.40	0.29	0.50	0.33	0.50	0.43	0.43	0.50	0.09
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	1	0	0	0	0	0	0	0	0	1

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FRAME NO.	21	22	23	24	25	26	27	28	29	30
FDAY	C.44062	0.44132	0.44201	0.44271	0.44340	0.44410	0.44479	0.44549	0.44618	0.44687
DJFF	-97.	-98.	-98.	-99.	-100.	-100.	-101.	-101.	-102.	-103.
BW	9.5	9.8	10.0	10.3	10.6	10.9	11.2	11.5	11.9	12.2
PHI	72.8	72.5	72.3	72.0	71.7	71.4	71.1	70.8	70.5	70.2
ALT	3115.	3079.	3044.	3008.	2972.	2937.	2901.	2865.	2829.	2792.
VEL	1096.	1102.	1109.	1117.	1123.	1131.	1138.	1145.	1152.	1159.
SIGPRE	0.79	0.79	0.80	0.80	0.81	0.82	0.82	0.83	0.83	0.84
SIGFAC	0.27E 30	0.27E 30	0.26E 30	0.26E 30	0.26E 30	0.25E 30	0.25E 30	0.24E 30	0.24E 30	0.24E 30
PSI	-94.1	-94.0	-93.8	-93.6	-93.4	-93.3	-93.1	-92.9	-92.8	-92.6
THETA	85.1	85.1	85.2	85.2	85.3	85.3	85.4	85.5	85.5	85.6
XSAT	-0.557	-0.547	-0.537	-0.527	-0.517	-0.507	-0.497	-0.486	-0.475	-0.463
YSAT	0.830	0.836	0.842	0.848	0.855	0.861	0.867	0.873	0.879	0.886
ZSAT	0.034	0.032	0.029	0.027	0.025	0.022	0.020	0.017	0.015	0.013
XSPEC	0.325	0.329	0.334	0.338	0.342	0.347	0.351	0.356	0.360	0.365
YSPEC	C.946	0.944	0.943	0.941	0.939	0.938	0.936	0.934	0.932	0.931
ZSPEC	C.017	0.015	0.012	0.009	0.007	0.004	0.002	-0.001	-0.003	-0.006
REFA	22.1	14.0	16.8	17.5	18.2	14.1	12.5	12.3	14.4	16.6
IBWA	8.	12.	12.	8.	12.	8.	12.	12.	8.	8.
REFB	5.1	7.4	8.1	6.7	7.6	6.2	3.2	2.7	1.0	4.0
IBWB	16.	8.	12.	4.	12.	12.	12.	8.	12.	16.
G	109.1	109.3	109.4	109.5	109.7	109.8	110.0	110.1	110.2	110.3
X	3.8	3.8	3.8	3.7	3.7	3.6	3.6	3.5	3.5	3.4
D	4047.	3999.	3953.	3906.	3863.	3819.	3774.	3728.	3681.	3634.
RNA	7.6	4.8	5.6	5.7	5.8	4.4	3.8	3.7	4.2	4.7
RNB	1.8	2.5	2.7	2.2	2.4	1.9	1.0	0.8	0.3	1.1
BWNA	C.84	1.23	1.20	0.78	1.13	0.74	1.07	1.04	0.68	0.66
BWNB	1.68	0.82	1.20	0.39	1.13	1.11	1.07	0.69	1.01	1.31
ALGGH	1.86	1.84	1.83	1.78	1.76	1.70	1.67	1.61	1.59	1.53
DLGGH	C.0015	-0.0004	-0.0021	-0.0037	-0.0058	-0.0075	-0.0098	-0.0116	-0.0138	-0.0156

PCLARIMETRY DATA

TOTAPP	20.	22.	25.	25.	23.	20.	25.	20.	22.	20.
PLAMP	11.	10.	10.	15.	14.	13.	16.	8.	13.	12.
UPLAMP	9.	12.	15.	10.	9.	7.	9.	12.	9.	8.
PLWID	3.	3.	3.	3.	4.	4.	4.	3.	3.	3.
UPLWID	7.	6.	5.	5.	7.	7.	5.	6.	8.	6.
TGTPWR	96.	102.	105.	95.	119.	101.	109.	96.	111.	84.
PLPWR	33.	30.	30.	45.	56.	52.	64.	24.	39.	36.
UPLPWR	63.	72.	75.	50.	63.	49.	45.	72.	72.	48.
PP/UPP	0.52	0.42	0.40	0.90	0.89	1.06	1.42	0.33	0.54	0.75
PA/UPA	1.22	0.83	0.67	1.50	1.56	1.86	1.78	0.67	1.44	1.50
PW/UPW	0.43	0.50	0.60	0.60	0.57	0.57	0.80	0.50	0.38	0.50
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	1	0	0	0

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FRAME NO.	31	32	33	34	35	36	37	38	39
FCAY	0.44757	0.44826	0.44896	0.44965	0.45035	0.45104	0.45174	0.45243	0.45313
D0FF	-103.	-104.	-104.	-105.	-105.	-105.	-105.	-105.	-105.
BW	12.5	12.9	13.3	13.8	14.2	14.6	15.1	15.6	16.2
PHI	69.9	69.6	69.3	68.9	68.6	68.3	67.9	67.6	67.2
ALT	2756.	2720.	2683.	2646.	2610.	2573.	2537.	2500.	2463.
VEL	1166.	1174.	1182.	1190.	1198.	1206.	1214.	1222.	1231.
SIGPRE	0.85	0.85	0.86	0.87	0.88	0.89	0.89	0.90	0.91
SIGFAC	0.23E 30	0.23E 30	0.23E 30	0.22E 30	0.22E 30	0.22E 30	0.22E 30	0.21E 30	0.21E 30
PSI	-92.4	-92.3	-92.1	-92.0	-91.8	-91.6	-91.5	-91.3	-91.2
THETA	85.7	85.7	85.8	85.9	86.0	86.1	86.1	86.2	86.3
XSAT	-0.452	-0.441	-0.428	-0.416	-0.404	-0.391	-0.378	-0.364	-0.349
YSAT	0.892	0.898	0.903	0.909	0.915	0.920	0.926	0.931	0.936
ZSAT	0.010	0.008	0.005	0.002	-0.001	-0.004	-0.007	-0.010	-0.013
XSPEC	0.370	0.375	0.380	0.385	0.390	0.395	0.401	0.406	0.412
YSPEC	0.929	0.927	0.925	0.922	0.920	0.918	0.916	0.913	0.910
ZSPEC	-0.009	-0.011	-0.014	-0.017	-0.019	-0.022	-0.024	-0.027	-0.030
REFA	18.2	16.1	13.3	12.8	11.3	13.3	14.8	11.9	9.9
IBWA	12.	8.	12.	12.	12.	8.	12.	12.	8.
REFB	3.9	7.1	5.3	0.0	1.9	3.2	2.4	2.1	2.9
IBWB	12.	12.	8.	8.	16.	8.	12.	12.	4.
G	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3
X	3.4	3.3	3.3	3.2	3.1	3.1	3.0	2.9	2.9
D	3590.	3547.	3493.	3449.	3404.	3354.	3309.	3259.	3207.
RNA	5.1	4.4	3.5	3.3	2.8	3.3	3.6	2.8	2.3
RNB	1.1	1.9	1.4	0.0	0.5	0.8	0.6	0.5	0.7
BWNA	0.96	0.62	0.90	0.87	0.85	0.55	0.80	0.77	0.49
BWNB	0.96	0.93	0.60	0.58	1.13	0.55	0.80	0.77	0.25
ALGGH	1.50	1.43	1.40	1.33	1.26	1.23	1.16	1.08	1.04
DLGGH	-0.0181	-0.0200	-0.0226	-0.0245	-0.0262	-0.0289	-0.0305	-0.0322	-0.0350

PCLARIMETRY DATA

TOTAPP	20.	26.	28.	16.	16.	16.	15.	14.	14.
PLAMP	11.	10.	11.	10.	7.	5.	6.	6.	6.
UPLAMP	9.	16.	17.	6.	9.	11.	9.	8.	8.
PLWID	3.	2.	3.	5.	3.	3.	5.	6.	6.
UPLWID	9.	6.	6.	4.	6.	4.	5.	6.	5.
TOTPWR	114.	116.	135.	74.	75.	59.	75.	84.	76.
PLPWR	33.	20.	33.	50.	21.	15.	30.	36.	36.
UPLPWR	81.	96.	102.	24.	54.	44.	45.	48.	40.
PP/UPP	0.41	0.21	0.32	2.08	0.39	0.34	0.67	0.75	0.90
PA/UPA	1.22	0.63	0.65	1.67	0.78	0.45	0.67	0.75	0.75
PW/UPW	0.33	0.33	0.50	1.25	0.50	0.75	1.00	1.00	1.20
PLSYM	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0

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FRAME NO.	17	18	19	20	21	22	23	24	25	26
FDAY	0.46424	0.46493	0.46502	0.46632	0.46701	0.46771	0.46840	0.46910	0.46979	0.47049
DOFF	-100.	-99.	-98.	-97.	-96.	-94.	-93.	-92.	-90.	-88.
BW	29.2	30.3	31.6	33.1	34.6	36.1	37.6	39.4	41.4	43.4
PHI	6C.3	59.8	59.2	58.6	58.0	57.4	56.9	56.2	55.5	54.9
ALT	1878.	1842.	1806.	1771.	1737.	1702.	1667.	1632.	1599.	1566.
VEL	1375.	1384.	1394.	1404.	1414.	1424.	1434.	1444.	1454.	1465.
SIGPRE	1.10	1.11	1.13	1.15	1.16	1.18	1.20	1.22	1.24	1.26
SIGFAC	0.15E 30	0.15E 30	0.15E 30	0.14E 30	0.14E 30	0.14E 30	0.13E 30	0.13E 30	0.13E 30	0.12E 30
PSI	-88.9	-88.8	-88.7	-88.6	-88.5	-88.4	-88.2	-88.2	-88.1	-88.0
THETA	8E.5	88.6	88.8	89.0	89.2	89.4	89.7	89.9	90.1	90.4
XSAT	-0.075	-0.055	-0.034	-0.012	0.010	0.032	0.054	0.077	0.101	0.125
YSAT	0.994	0.995	0.996	0.995	0.995	0.995	0.994	0.992	0.989	0.985
ZSAT	-0.066	-0.070	-0.074	-0.078	-0.082	-0.086	-0.090	-0.094	-0.098	-0.102
XSPEC	C.520	0.527	0.535	0.543	0.552	0.560	0.568	0.577	0.586	0.595
YSPEC	0.851	0.846	0.841	0.835	0.829	0.824	0.818	0.811	0.804	0.797
ZSPEC	-0.071	-0.074	-0.076	-0.079	-0.082	-0.085	-0.088	-0.090	-0.093	-0.095
REFA	9.7	15.2	18.2	17.2	14.5	19.0	18.3	17.1	15.9	22.6
IBWA	24.	12.	16.	20.	20.	24.	20.	20.	12.	12.
REFB	6.2	12.7	15.0	10.4	15.0	19.7	17.4	24.4	19.1	23.5
IBWB	24.	16.	20.	16.	28.	16.	20.	20.	12.	12.
G	112.3	112.4	112.4	112.3	112.3	112.3	112.3	112.2	112.1	111.9
X	1.2	1.1	0.9	0.8	0.6	0.4	0.3	0.1	-0.1	-0.2
D	2422.	2372.	2323.	2270.	2223.	2175.	2126.	2078.	2028.	1977.
RNA	1.4	2.2	2.5	2.3	1.9	2.4	2.2	2.0	1.8	2.5
RNB	0.9	1.8	2.0	1.4	1.9	2.4	2.1	2.8	2.2	2.6
BWNA	0.82	0.40	0.51	0.60	0.58	0.66	0.53	0.51	0.29	0.28
BWNB	0.82	0.53	0.63	0.48	0.81	0.44	0.53	0.51	0.29	0.28
ALGGH	0.02	-0.02	-0.04	-0.06	-0.07	-0.06	-0.05	-0.02	0.02	0.05
DLGGH	-0.0280	-0.0254	-0.0206	-0.0180	-0.0131	-0.0084	-0.0060	-0.0019	0.0018	0.0033

PCLARIMETRY DATA

TOTAMP	16.	20.	19.	16.	18.	19.	24.	21.	35.	29.
PLAMP	11.	13.	11.	10.	12.	10.	15.	13.	23.	20.
UPLAMP	5.	7.	8.	6.	6.	9.	9.	8.	12.	9.
PLWIC	5.	6.	6.	8.	7.	7.	5.	7.	5.	7.
UPLWID	8.	6.	8.	10.	8.	8.	12.	10.	6.	5.
TOTPWR	95.	120.	130.	140.	132.	142.	183.	171.	187.	185.
PLPWR	55.	78.	66.	80.	84.	70.	75.	91.	115.	140.
UPLPWR	40.	42.	64.	60.	48.	72.	108.	80.	72.	45.
PP/UPP	1.38	1.86	1.03	1.33	1.75	0.97	0.69	1.14	1.60	3.11
PA/UPA	2.20	1.86	1.38	1.67	2.00	1.11	1.67	1.63	1.92	2.22
PW/UPW	0.63	1.00	0.75	0.80	0.88	0.88	0.42	0.70	0.83	1.40
PLSYM	0	0	0	1	0	0	0	0	0	0
UPLSYM	0	0	0	1	0	0	0	0	0	0

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FRAME NO.	27	28	29	30	31	32	33	34	35	36
FDAY	C.47118	0.47187	0.47257	0.47326	0.47396	0.47465	0.47535	0.47604	0.47674	0.47743
DUFF	-86.	-84.	-83.	-81.	-79.	-77.	-75.	-74.	-72.	-70.
BW	45.4	47.4	49.7	52.4	55.0	57.7	60.3	63.4	66.9	70.3
PHI	54.2	53.5	52.8	52.0	51.2	50.4	49.6	48.8	47.8	46.9
ALT	1532.	1499.	1467.	1436.	1405.	1373.	1342.	1313.	1285.	1258.
VEL	1475.	1485.	1495.	1505.	1515.	1524.	1534.	1544.	1553.	1563.
SIGPNE	1.28	1.30	1.32	1.35	1.38	1.40	1.43	1.45	1.48	1.51
SIGFAC	0.12E 30	0.12E 30	0.12E 30	0.12E 30	0.11E 30	0.11E 30	0.11E 30	0.11E 30	0.11E 30	0.10E 30
PSI	-88.0	-87.9	-87.9	-87.9	-87.9	-87.9	-87.8	-87.9	-88.0	-88.1
THETA	90.6	90.9	91.2	91.5	91.8	92.1	92.4	92.7	93.1	93.5
XSAT	0.149	0.173	0.198	0.225	0.251	0.278	0.305	0.332	0.359	0.386
YSAT	0.981	0.978	0.972	0.965	0.957	0.950	0.943	0.933	0.921	0.909
ZSAT	-0.106	-0.110	-0.114	-0.118	-0.123	-0.127	-0.131	-0.135	-0.139	-0.143
XSPEC	0.605	0.614	0.624	0.635	0.646	0.657	0.668	0.679	0.690	0.701
YSPEC	0.790	0.783	0.774	0.764	0.754	0.745	0.735	0.724	0.712	0.701
ZSPEC	-C.C98	-0.101	-0.103	-0.106	-0.109	-0.111	-0.114	-0.116	-0.119	-0.122
REFA	19.8	17.2	21.8	27.4	25.0	24.9	26.1	24.0	25.1	28.9
IBWA	12.	12.	12.	16.	12.	24.	28.	32.	40.	40.
REFB	18.6	29.6	25.7	39.8	40.1	34.5	33.8	38.3	44.0	56.4
IBWB	16.	20.	16.	24.	28.	28.	40.	32.	48.	44.
G	111.8	111.6	111.4	111.1	110.9	110.6	110.3	110.0	109.6	109.2
X	-0.4	-0.5	-0.7	-0.8	-1.0	-1.2	-1.3	-1.5	-1.7	-1.9
D	1928.	1883.	1836.	1788.	1741.	1696.	1655.	1611.	1566.	1522.
RNA	2.1	1.8	2.2	2.6	2.3	2.2	2.2	2.0	2.0	2.2
RNB	2.0	3.0	2.5	3.8	3.7	3.1	2.9	3.2	3.5	4.4
BWNA	C.26	0.25	0.24	0.31	0.22	0.42	0.46	0.50	0.60	0.57
BWNB	0.35	0.42	0.32	0.46	0.51	0.49	0.66	0.50	0.72	0.63
ALGGH	0.12	0.16	0.24	0.30	0.40	0.51	0.58	0.69	0.81	0.93
DLGGH	0.0059	0.0067	0.0082	0.0079	0.0081	0.0077	0.0063	0.0050	0.0031	0.0010

POLARIMETRY DATA

TOTAMP	35.	41.	47.	62.	50.	37.	31.	31.	35.	35.
PLAMP	22.	29.	35.	45.	35.	23.	20.	19.	22.	20.
UPLAMP	13.	12.	12.	17.	15.	14.	11.	12.	13.	15.
PLWID	8.	5.	4.	5.	5.	6.	8.	10.	9.	9.
UPLWID	7.	8.	7.	8.	7.	9.	11.	10.	14.	15.
TOTPWR	267.	241.	224.	361.	280.	264.	281.	310.	380.	405.
PLPWR	176.	145.	140.	225.	175.	138.	160.	190.	198.	180.
UPLPWR	91.	96.	84.	136.	105.	126.	121.	120.	182.	225.
PP/UPP	1.93	1.51	1.67	1.65	1.67	1.10	1.32	1.58	1.09	0.80
PA/UPA	1.69	2.42	2.92	2.65	2.33	1.64	1.82	1.58	1.69	1.33
PW/UPW	1.14	0.63	0.57	0.63	0.71	0.67	0.73	1.00	0.64	0.60
PLSYM	0	C	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

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FRAME NO.	37	38
FDAY	0.47812	0.47882
DOFF	-68.	-66.
BW	73.8	77.3
PHI	45.9	45.0
ALT	1230.	1202.
VEL	1573.	1582.
SIGPRE	1.54	1.57
SIGFAC	C.10E 3C	0.10E 30
PSI	-88.2	-88.3
THETA	93.8	94.2
XSAT	0.413	0.440
YSAT	0.896	0.884
ZSAT	-0.147	-0.151
XSPEC	0.713	0.724
YSPEC	0.689	0.677
ZSPEC	-0.124	-0.127
REFA	27.8	25.1
IBWA	40.	48.
REFB	58.5	55.1
IBWB	44.	48.
G	108.8	108.3
X	-2.1	-2.4
D	1478.	1440.
RNA	2.1	1.8
RNB	4.4	4.0
BWNA	0.54	0.62
BWNB	0.60	0.62
ALGGH	1.04	1.21
DLGGH	-0.0012	-0.0037

POLARIMETRY DATA

TGTAMP	36.	30.
PLAMP	19.	15.
UPLAMP	17.	15.
PLWID	10.	12.
UPLWID	17.	18.
TOTPWR	479.	450.
PLPWR	190.	180.
UPLPWR	289.	270.
PP/UPP	0.66	0.67
PA/UPA	1.12	1.00
PN/UPN	0.59	0.67
PLSYN	0	0
UPLSYN	0	0

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FRAME No.	5	6	7	8	9	10	11	12	13	14
FDAY	0.51215	0.51285	0.51354	0.51424	0.51493	0.51563	0.51632	0.51701	0.51771	0.51840
DCFF	-183.	-179.	-175.	-171.	-166.	-160.	-155.	-150.	-145.	-140.
BW	103.8	99.9	96.0	92.3	89.0	85.7	82.4	79.1	76.1	73.4
PHI	23.8	24.8	25.8	26.8	27.6	28.5	29.4	30.2	31.1	31.8
ALT	1313.	1342.	1371.	1402.	1434.	1466.	1498.	1530.	1563.	1597.
VEL	1544.	1535.	1525.	1515.	1505.	1495.	1485.	1475.	1465.	1455.
SIGPRE	1.84	1.82	1.79	1.77	1.75	1.72	1.70	1.68	1.66	1.64
SIGFAC	0.11E 30	0.11E 30	0.11E 30	0.11E 30	0.12E 30	0.12E 30	0.12E 30	0.13E 30	0.13E 30	0.13E 30
PSI	97.8	96.9	95.9	95.2	94.6	94.0	93.5	92.9	92.4	92.1
THETA	100.8	100.5	100.2	99.8	99.5	99.2	98.9	98.6	98.3	98.0
XSAT	0.804	0.788	0.771	0.754	0.737	0.719	0.701	0.684	0.666	0.648
YSAT	-0.582	-0.605	-0.628	-0.649	-0.668	-0.687	-0.706	-0.725	-0.741	-0.756
ZSAT	-0.101	-0.096	-0.091	-0.087	-0.082	-0.077	-0.073	-0.068	-0.064	-0.059
XSPEC	0.899	0.892	0.885	0.877	0.870	0.862	0.854	0.847	0.839	0.832
YSPEC	-0.427	-0.443	-0.459	-0.474	-0.487	-0.501	-0.514	-0.527	-0.539	-0.550
ZSPEC	-0.080	-0.077	-0.074	-0.070	-0.067	-0.064	-0.061	-0.058	-0.055	-0.052
REFA	0.0	0.0	0.0	0.0	1.1	10.4	13.4	24.0	18.8	18.5
IBWA	0.	0.	0.	0.	24.	24.	24.	28.	44.	44.
REFB	0.0	0.0	0.0	0.0	32.6	46.6	36.7	32.8	51.0	43.7
IBWB	0.	0.	0.	0.	32.	32.	40.	16.	24.	24.
G	108.4	107.7	107.1	106.6	106.3	106.0	105.8	105.5	105.3	105.2
X	-4.2	-4.2	-4.2	-4.2	-4.1	-4.0	-3.9	-3.8	-3.7	-3.6
D	1375.	1411.	1447.	1486.	1524.	1561.	1602.	1646.	1685.	1724.
RNA	0.0	0.0	0.0	0.0	0.1	0.9	1.1	2.1	1.7	1.7
RNB	0.0	0.0	0.0	0.0	2.6	3.9	3.1	2.9	4.6	4.1
BWNA	0.00	0.00	0.00	0.00	0.27	0.28	0.29	0.35	0.58	0.60
BWNB	0.00	0.00	0.00	0.00	0.36	0.37	0.49	0.20	0.31	0.33
ALGGH	1.50	1.53	1.56	1.59	1.57	1.56	1.55	1.54	1.53	1.51
DLGGH	-0.0040	-0.0046	-0.0052	-0.0058	-0.0062	-0.0066	-0.0070	-0.0075	-0.0079	-0.0082

POLARIMETRY DATA

TCTAMP	C.	6.	9.	7.	14.	11.	12.	12.	19.	18.
PLAMP	0.	3.	4.	4.	7.	7.	6.	4.	9.	9.
UPLAMP	0.	3.	5.	3.	7.	4.	6.	8.	10.	9.
PLWID	C.	4.	6.	7.	7.	5.	8.	5.	4.	7.
UPLWID	C.	5.	9.	11.	7.	7.	15.	11.	11.	13.
TOTPWR	C.	27.	69.	61.	98.	63.	138.	108.	146.	180.
PLPWR	C.	12.	24.	28.	49.	35.	48.	20.	36.	63.
UPLPWR	C.	15.	45.	33.	49.	28.	90.	88.	110.	117.
PP/UPP	C.00	0.80	0.53	0.85	1.00	1.25	0.53	0.23	0.33	0.54
PA/UPA	0.00	1.00	0.80	1.33	1.00	1.75	1.00	0.50	0.90	1.00
PW/UPW	0.00	0.80	0.67	0.64	1.00	0.71	0.53	0.45	0.36	0.54
PLSYM	C	C	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

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FRAME NO.	15	16	17	18	19	20	21	22	23	24
FDAY	0.51910	0.51979	0.52049	0.52118	0.52187	0.52257	0.52326	0.52396	0.52465	0.52535
DOFF	-135.	-129.	-124.	-119.	-113.	-108.	-103.	-97.	-92.	-87.
BW	7C.8	68.1	65.4	63.0	60.9	58.7	56.6	54.4	52.5	50.8
PHI	32.6	33.3	34.1	34.8	35.4	36.1	36.8	37.4	38.0	38.6
ALT	1631.	1665.	1699.	1734.	1769.	1805.	1840.	1875.	1911.	1947.
VEL	1445.	1435.	1425.	1415.	1405.	1395.	1385.	1375.	1365.	1356.
SIGPRE	1.62	1.60	1.58	1.56	1.54	1.52	1.51	1.49	1.47	1.46
SIGFAC	0.13E 30	0.14E 30	0.14E 30	0.14E 30	0.14E 30	0.14E 30	0.15E 30	0.15E 30	0.15E 30	0.16E 30
PSI	91.7	91.3	91.0	90.7	90.4	90.2	90.0	89.8	89.6	89.4
THETA	57.7	97.4	97.1	96.9	96.6	96.4	96.1	95.8	95.6	95.4
XSAT	0.630	0.613	0.595	0.577	0.560	0.542	0.524	0.507	0.489	0.472
YSAT	-0.771	-0.787	-0.801	-0.815	-0.826	-0.838	-0.850	-0.861	-0.871	-0.880
ZSAT	-0.055	-0.051	-0.046	-0.042	-0.038	-0.033	-0.029	-0.025	-0.021	-0.017
XSPEC	0.825	0.818	0.811	0.804	0.797	0.790	0.783	0.776	0.770	0.762
YSPEC	-0.561	-0.573	-0.583	-0.593	-0.602	-0.611	-0.621	-0.630	-0.638	-0.646
ZSPEC	-0.049	-0.045	-0.043	-0.040	-0.037	-0.034	-0.031	-0.028	-0.026	-0.023
REFA	22.6	21.2	29.3	40.9	38.5	40.5	37.9	39.0	31.2	27.3
IBWA	32.	24.	20.	28.	20.	24.	16.	20.	20.	16.
REFB	45.7	54.3	53.2	83.6	69.4	71.8	68.6	67.4	63.6	50.5
IBWB	28.	16.	20.	24.	24.	20.	20.	24.	20.	20.
G	105.1	105.0	104.9	104.9	104.9	104.9	104.9	104.9	104.9	105.0
X	-3.6	-3.5	-3.4	-3.3	-3.3	-3.2	-3.1	-3.0	-3.0	-2.9
D	1765.	1811.	1854.	1900.	1940.	1985.	2029.	2073.	2117.	2160.
RNA	2.2	2.1	3.0	4.3	4.2	4.5	4.3	4.6	3.8	3.4
RNB	4.4	5.4	5.4	8.7	7.5	8.0	7.9	8.0	7.7	6.3
BWNA	0.45	0.35	0.31	0.44	0.33	0.41	0.28	0.37	0.38	0.31
BWNB	C.40	0.24	0.31	0.38	0.39	0.34	0.35	0.44	0.38	0.39
ALGGH	1.53	1.52	1.50	1.48	1.50	1.48	1.46	1.43	1.45	1.42
DLGGH	-0.0088	-0.0091	-0.0095	-0.0097	-0.0102	-0.0104	-0.0105	-0.0106	-0.0111	-0.0110

POLARIMETRY DATA

TOTAMP	19.	23.	32.	36.	43.	43.	44.	39.	34.	30.
PLAMP	8.	9.	17.	18.	20.	19.	23.	20.	18.	13.
UPLAMP	11.	14.	15.	18.	23.	24.	21.	19.	16.	17.
PLWID	9.	8.	5.	8.	6.	6.	4.	7.	5.	8.
UPLWID	15.	10.	11.	14.	13.	11.	11.	12.	15.	10.
TOTPWR	237.	212.	250.	396.	419.	378.	323.	368.	330.	274.
PLPWR	72.	72.	85.	144.	120.	114.	92.	140.	90.	104.
UPLPWR	165.	140.	165.	252.	299.	264.	231.	228.	240.	170.
PP/UPP	C.44	0.51	0.52	0.57	0.40	0.43	0.40	0.61	0.38	0.61
PA/UPA	0.73	0.64	1.13	1.00	0.87	0.79	1.10	1.05	1.13	0.76
PH/UPH	C.60	0.80	0.45	0.57	0.46	0.55	0.36	0.58	0.33	0.80
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

NOTE: AN ALL-ZEROS ENTRY IN THE POLARIMETRY DATA INDICATES ONLY THAT NO DATA WAS TAKEN FOR THAT FRAME, DUE USUALLY TO THE ABSENCE OF A CLEAR SIGNAL OR, OCCASIONALLY, TO AN OBVIOUS PLOTTER ERROR.

FRAME NO.	25	26	27	28	29	30	31	32	33	34
FDAY	0.52604	0.52674	0.52743	0.52812	0.52882	0.52951	0.53021	0.53090	0.53160	0.53229
DUFF	-82.	-77.	-72.	-67.	-63.	-58.	-53.	-49.	-45.	-41.
BW	49.2	47.5	45.8	44.3	42.9	41.6	40.2	38.9	37.7	36.6
PHI	39.2	39.8	40.3	40.9	41.4	41.9	42.4	42.9	43.4	43.8
ALT	1984.	2020.	2056.	2092.	2129.	2166.	2203.	2240.	2276.	2313.
VEL	1346.	1337.	1328.	1318.	1309.	1301.	1291.	1283.	1274.	1265.
SIGPRE	1.44	1.43	1.42	1.40	1.39	1.38	1.36	1.35	1.34	1.32
SIGFAC	0.16E 30	0.16E 30	0.17E 30	0.17E 30	0.18E 30	0.18E 30	0.18E 30	0.19E 30	0.19E 30	0.19E 30
PSI	89.3	89.1	89.0	88.9	88.8	88.7	88.6	88.5	88.4	88.4
THETA	95.1	94.9	94.7	94.4	94.2	94.0	93.8	93.6	93.4	93.2
XSAT	0.454	0.436	0.419	0.402	0.386	0.370	0.354	0.338	0.322	0.307
YSAT	-0.890	-0.899	-0.908	-0.915	-0.922	-0.928	-0.934	-0.941	-0.946	-0.951
ZSAT	-0.013	-0.010	-0.006	-0.002	0.001	0.004	0.008	0.011	0.014	0.017
XSPEC	0.755	0.748	0.741	0.735	0.729	0.723	0.717	0.711	0.705	0.700
YSPEC	-0.655	-0.663	-0.671	-0.678	-0.684	-0.690	-0.697	-0.703	-0.709	-0.714
ZSPEC	-0.020	-0.018	-0.015	-0.013	-0.010	-0.008	-0.006	-0.003	-0.001	0.001
REFA	28.0	24.5	27.3	21.2	10.8	16.3	14.9	7.3	10.4	5.0
IBWA	20.	12.	20.	12.	16.	20.	8.	8.	8.	12.
REFB	50.6	57.8	52.6	49.2	30.9	30.1	22.2	22.8	21.2	17.8
IBWB	20.	16.	12.	12.	16.	16.	16.	12.	12.	12.
G	105.1	105.1	105.2	105.2	105.3	105.4	105.5	105.6	105.7	105.8
X	-2.8	-2.7	-2.6	-2.5	-2.4	-2.3	-2.1	-2.0	-1.9	-1.8
D	2207.	2252.	2299.	2341.	2387.	2431.	2474.	2524.	2567.	2613.
RNA	3.6	3.2	3.7	2.9	1.5	2.4	2.2	1.1	1.6	0.8
RNB	6.5	7.6	7.1	6.8	4.4	4.4	3.3	3.5	3.3	2.9
BWNA	0.41	0.25	0.44	0.27	0.37	0.48	0.20	0.21	0.21	0.33
BWNB	0.41	0.34	0.26	0.27	0.37	0.38	0.40	0.31	0.32	0.33
ALGGH	1.39	1.36	1.32	1.29	1.25	1.21	1.11	1.07	1.02	0.97
DLGGH	-0.0108	-0.0107	-0.0105	-0.0103	-0.0099	-0.0095	-0.0086	-0.0081	-0.0075	-0.0069

POLARIMETRY DATA

TGTAMP	29.	35.	26.	33.	19.	21.	16.	16.	18.	14.
PLAMP	15.	17.	17.	20.	12.	11.	7.	8.	9.	8.
UPLAMP	14.	18.	9.	13.	7.	10.	9.	8.	9.	6.
PLWID	5.	4.	7.	5.	6.	6.	5.	6.	5.	5.
UPLWID	13.	10.	9.	6.	7.	7.	8.	7.	7.	7.
TUTPWR	257.	248.	200.	178.	121.	136.	107.	104.	108.	82.
PLPWR	75.	68.	119.	100.	72.	66.	35.	48.	45.	40.
UPLPWR	182.	180.	81.	78.	49.	70.	72.	56.	63.	42.
PP/UPP	0.41	0.38	1.47	1.28	1.47	0.94	0.49	0.86	0.71	0.95
PA/UPA	1.07	0.94	1.89	1.54	1.71	1.10	0.78	1.00	1.00	1.33
PW/UPW	0.38	0.40	0.78	0.83	0.86	0.86	0.63	0.86	0.71	0.71
PLSYM	0	0	1	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

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KRO-65 22 SEPTEMBER 1967 DAY NO. 264

FRAME NO.	35	36	37	38	39
F0AY	0.53299	0.53368	0.53437	0.53507	0.53576
DUFF	-37.	-33.	-29.	-25.	-21.
BW	35.5	34.5	33.4	32.4	31.6
PHI	44.3	44.7	45.2	45.6	46.0
ALT	2350.	2387.	2424.	2460.	2497.
VEL	1257.	1248.	1239.	1231.	1223.
SIGPRE	1.31	1.31	1.29	1.28	1.27
SIGFAC	0.19E 30	0.20E 30	0.20E 30	0.20E 30	0.21E 30
PSI	88.3	88.3	88.2	88.2	88.1
THETA	93.0	92.9	92.7	92.5	92.3
XSAT	0.292	0.277	0.262	0.247	0.233
YSAT	-0.956	-0.960	-0.965	-0.968	-0.971
ZSAT	0.020	0.023	0.026	0.029	0.032
XSPEC	0.694	0.689	0.684	0.678	0.673
YSPEC	-0.719	-0.724	-0.729	-0.734	-0.739
ZSPEC	0.003	0.006	0.008	0.010	0.012
REFA	7.0	5.0	4.5	3.4	5.8
IBWA	12.	12.	12.	8.	8.
REFB	17.0	12.1	13.5	11.7	6.4
IBWB	12.	12.	12.	8.	8.
G	105.9	106.0	106.1	106.3	106.4
X	-1.7	-1.6	-1.5	-1.4	-1.3
D	2660.	2704.	2753.	2794.	2836.
RNA	1.2	0.8	0.8	0.6	1.0
RNB	2.8	2.0	2.4	2.1	1.2
BWNA	0.34	0.35	0.36	0.25	0.25
BWNB	0.34	0.35	0.36	0.25	0.25
ALGGH	0.93	0.88	0.82	0.77	0.71
DLGGH	-0.0063	-0.0056	-0.0049	-0.0040	-0.0033

POLARIMETRY DATA

TGTAPP	12.	11.	11.	12.	14.
PLAMP	6.	5.	5.	5.	7.
UPLAMP	6.	6.	6.	7.	7.
PLWID	6.	5.	4.	4.	3.
UPLWID	11.	5.	5.	5.	4.
TOTPWR	102.	55.	50.	55.	49.
PLPWR	36.	25.	20.	20.	21.
UPLPWR	66.	30.	30.	35.	28.
PP/UPP	0.55	0.83	0.67	0.57	0.75
PA/UPA	1.00	0.83	0.83	0.71	1.00
PW/UPW	0.55	1.00	0.80	0.80	0.75
PLSYM	0	0	0	0	0
UPLSYM	0	C	0	0	0

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FRAME NO.	17	18	19	20	21	22	23	24	25	26
FDAY	C.54688	0.54757	0.54826	0.54896	0.54965	0.55035	0.55104	0.55174	0.55243	0.55312
DUFF	161.	218.	275.	300.	294.	288.	282.	275.	269.	263.
BW	46.6	56.4	66.2	70.5	69.4	68.2	67.1	65.9	64.7	63.6
PHI	51.7	52.0	52.3	52.6	52.8	53.1	53.3	53.5	53.8	54.0
ALT	3078.	3113.	3148.	3183.	3216.	3249.	3282.	3315.	3348.	3382.
VEL	2325.	2807.	3289.	3528.	3525.	3522.	3519.	3515.	3512.	3509.
SIGPRE	1.15	1.14	1.13	1.13	1.12	1.12	1.12	1.11	1.11	1.10
SIGFAC	C.27E 30	0.27E 30	0.28E 30	0.28E 30	0.29E 30	0.29E 30	0.30E 30	0.30E 30	0.30E 30	0.31E 30
PSI	88.2	88.2	88.2	88.2	88.3	88.3	88.4	88.4	88.4	88.5
THETA	90.1	90.0	89.8	89.7	89.7	89.6	89.5	89.4	89.3	89.2
XSAT	C.C24	0.013	0.002	-0.009	-0.018	-0.027	-0.036	-0.045	-0.054	-0.063
YSAT	-0.996	-0.997	-0.997	-0.996	-0.995	-0.993	-0.992	-0.990	-0.989	-0.987
ZSAT	C.C72	0.074	0.076	0.078	0.079	0.081	0.082	0.084	0.086	0.087
XSPEC	0.596	0.592	0.588	0.584	0.581	0.577	0.574	0.570	0.567	0.563
YSPEC	-0.802	-0.804	-0.807	-0.810	-0.812	-0.814	-0.816	-0.818	-0.821	-0.823
ZSPEC	0.043	0.044	0.046	0.048	0.049	0.051	0.052	0.054	0.055	0.057
REFA	6.3	2.4	10.1	9.0	8.7	5.7	8.0	7.2	9.1	6.4
IBWA	4.	8.	8.	8.	8.	8.	12.	8.	8.	12.
REFB	15.4	12.8	18.2	18.2	16.4	13.4	15.0	13.4	13.8	15.8
IBWB	4.	8.	12.	8.	8.	8.	8.	8.	8.	12.
G	108.4	108.5	108.6	108.7	108.8	108.9	109.0	109.1	109.2	109.3
X	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6
D	3536.	3583.	3625.	3663.	3698.	3729.	3765.	3797.	3832.	3865.
RNA	1.6	0.6	2.7	2.4	2.4	1.6	2.2	2.1	2.6	1.9
RNB	3.9	3.3	4.8	4.9	4.5	3.7	4.2	3.8	4.0	4.7
BWNA	C.09	0.14	0.12	0.11	0.12	0.12	0.18	0.12	0.12	0.19
BWNB	0.09	0.14	0.18	0.11	0.12	0.12	0.12	0.12	0.12	0.19
ALGGM	0.00	0.00	-0.04	-0.09	-0.13	-0.12	-0.16	-0.19	-0.19	-0.22
DLGGH	0.0000	0.0000	-0.0010	-0.0023	-0.0036	-0.0039	-0.0054	-0.0072	-0.0076	-0.0095

POLARIMETRY DATA

TGTAMP	18.	14.	15.	18.	17.	16.	17.	17.	15.	19.
PLAMP	9.	7.	5.	8.	9.	8.	9.	7.	6.	9.
UPLAMP	9.	7.	10.	10.	8.	8.	8.	10.	9.	10.
PLWID	3.	3.	5.	3.	3.	2.	2.	3.	3.	3.
UPLWID	4.	4.	5.	6.	6.	4.	5.	5.	5.	5.
TCTPWR	63.	49.	75.	84.	75.	48.	58.	71.	63.	77.
PLPWR	27.	21.	25.	24.	27.	16.	18.	21.	18.	27.
UPLPWR	36.	28.	50.	60.	48.	32.	40.	50.	45.	50.
PP/UPP	C.75	0.75	0.50	0.40	0.56	0.50	0.45	0.42	0.40	0.54
PA/UPA	1.00	1.00	0.50	0.80	1.13	1.00	1.13	0.70	0.67	0.90
PW/UPW	0.75	0.75	1.00	0.50	0.50	0.50	0.40	0.60	0.60	0.60
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

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FRAME NO.	27	28	29	30	31	32	33	34	35	36
FDAY	0.55382	0.55451	0.55521	0.55590	0.55660	0.55729	0.55799	0.55868	0.55937	0.56007
DOFF	257.	251.	244.	238.	232.	226.	219.	213.	207.	201.
BW	62.4	61.3	60.1	59.0	57.8	56.7	55.5	54.4	53.2	52.1
PHI	54.2	54.5	54.7	55.0	55.2	55.4	55.7	55.9	56.2	56.4
ALT	3415.	3448.	3481.	3514.	3547.	3581.	3614.	3647.	3680.	3713.
VEL	3505.	3502.	3499.	3496.	3492.	3489.	3486.	3483.	3479.	3476.
SIGPRE	1.10	1.10	1.09	1.09	1.08	1.08	1.08	1.07	1.07	1.06
SIGFAC	0.31E 30	0.32E 30	0.32E 30	0.33E 30	0.33E 30	0.33E 30	0.34E 30	0.34E 30	0.35E 30	0.35E 30
PSI	88.5	88.6	88.6	88.7	88.7	88.8	88.8	88.8	88.9	88.9
THETA	89.1	89.1	89.0	88.9	88.8	88.7	88.6	88.5	88.4	88.4
XSAT	-0.072	-0.081	-0.090	-0.100	-0.109	-0.118	-0.127	-0.136	-0.145	-0.154
YSAT	-0.986	-0.985	-0.983	-0.982	-0.980	-0.979	-0.977	-0.976	-0.974	-0.973
ZSAT	C.089	0.090	0.092	0.093	0.095	0.097	0.098	0.100	0.101	0.103
XSPEC	C.560	0.556	0.553	0.549	0.546	0.542	0.539	0.535	0.532	0.528
YSPEC	-0.825	-0.827	-0.829	-0.831	-0.833	-0.835	-0.837	-0.839	-0.842	-0.844
ZSPEC	0.058	0.060	0.061	0.063	0.064	0.066	0.067	0.069	0.070	0.072
REFA	8.2	3.9	5.0	6.4	4.6	9.5	7.4	9.0	6.2	5.5
IBWA	8.	8.	8.	8.	8.	8.	8.	8.	8.	4.
REFB	14.3	11.4	15.3	14.4	11.6	13.9	13.8	8.7	15.2	12.1
IBWB	12.	12.	8.	8.	8.	8.	12.	8.	8.	8.
G	109.4	109.5	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2
X	C.7	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.3
D	3903.	3941.	3975.	4015.	4050.	4091.	4126.	4166.	4201.	4243.
RNA	2.5	1.2	1.5	2.0	1.5	3.0	2.4	3.0	2.1	1.9
RNB	4.3	3.5	4.7	4.5	3.7	4.5	4.5	2.9	5.1	4.2
BWNA	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.15	0.15	0.08
BWNB	C.19	0.20	0.13	0.14	0.14	0.14	0.22	0.22	0.15	0.15
ALGGH	-0.25	-0.24	-0.26	-0.28	-0.27	-0.29	-0.30	-0.28	-0.29	-0.30
DLGGH	-0.0116	-0.0121	-0.0145	-0.0169	-0.0175	-0.0201	-0.0228	-0.0234	-0.0262	-0.0290

PLLARIMETRY DATA

TOTAMP	18.	17.	14.	18.	15.	19.	15.	17.	14.	14.
PLAMP	10.	9.	6.	8.	7.	9.	5.	9.	7.	7.
UPLAMP	8.	8.	8.	10.	8.	10.	10.	8.	7.	7.
PLWID	2.	2.	3.	3.	4.	3.	3.	3.	2.	1.
UPLWID	4.	5.	4.	4.	5.	4.	4.	4.	4.	4.
TOTPWR	52.	58.	50.	64.	68.	67.	55.	59.	42.	35.
PLPWR	20.	18.	18.	24.	28.	27.	15.	27.	14.	7.
UPLPWR	32.	40.	32.	40.	40.	40.	40.	32.	28.	28.
PP/UPP	C.63	0.45	0.56	0.60	0.70	0.67	0.38	0.84	0.50	0.25
PA/UPA	1.25	1.13	0.75	0.80	0.88	0.90	0.50	1.13	1.00	1.00
PW/UPW	C.50	0.40	0.75	0.75	0.80	0.75	0.75	0.75	0.50	0.25
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

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XRD-66 22 SEPTEMBER 1967 DAY NO. 264

FRAME NO.	37	38	39
FDAY	0.56076	0.56146	0.56215
DOFF	194.	188.	182.
BW	50.9	49.8	48.0
PHI	56.6	56.9	57.1
ALT	3746.	3780.	3813.
VEL	3473.	3470.	3466.
SIGPRE	1.06	1.06	1.05
SIGFAC	0.36E 30	0.36E 30	0.36E 30
PSI	89.0	89.0	89.1
THETA	88.3	88.2	88.1
XSAT	-0.163	-0.172	-0.181
YSAT	-0.971	-0.970	-0.968
ZSAT	0.104	0.106	0.108
XSPEC	0.525	0.521	0.518
YSPEC	-0.846	-0.848	-0.850
ZSPEC	0.073	0.075	0.076
REFA	5.2	7.0	0.4
IBWA	4.	8.	8.
REFB	10.5	9.3	3.1
IBWB	8.	8.	4.
G	110.3	110.4	110.5
X	1.3	1.4	1.5
D	4280.	4323.	4362.
RNA	1.8	2.4	0.2
RNB	3.7	3.2	1.1
BWNA	0.08	0.16	0.16
BWNB	0.16	0.16	0.08
ALGGH	-0.28	-0.28	-0.27
DLGGH	-0.0296	-0.0325	-0.0353

POLARIMETRY DATA

TOTAMP	13.	13.	0.
PLAMP	6.	7.	0.
UPLAMP	7.	6.	0.
PLWID	2.	3.	0.
UPLWID	2.	5.	0.
TOTPWR	26.	51.	0.
PLPWR	12.	21.	0.
UPLPWR	14.	30.	0.
PP/UPP	0.86	0.70	0.00
PA/UPA	0.86	1.17	0.00
PW/UPW	1.00	0.60	0.00
PLSYM	0	0	0
UPLSYM	0	0	0

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FRAME NO.	17	18	19	20	21	22	23	24	25	26
FDAY	C.26181	0.26319	0.26458	0.26597	0.26736	0.26875	0.27014	0.27153	0.27292	0.27431
DOFF	184.	179.	173.	167.	162.	155.	149.	142.	134.	127.
BW	6.8	6.7	6.6	6.5	6.4	6.2	6.1	5.9	5.8	5.6
PHI	76.4	76.9	77.5	78.0	78.6	79.1	79.7	80.3	80.9	81.5
ALT	4382.	4319.	4256.	4193.	4129.	4063.	3998.	3931.	3864.	3797.
VEL	885.	894.	904.	913.	923.	933.	943.	954.	965.	976.
SIGPRE	0.72	0.71	0.69	0.68	0.66	0.64	0.62	0.60	0.57	0.55
SIGFAC	0.44E 30	0.43E 30	0.42E 30	0.41E 30	0.40E 30	0.39E 30	0.38E 30	0.38E 30	0.37E 30	0.36E 30
PSI	109.2	109.5	109.8	110.1	110.4	110.8	111.1	111.5	111.8	112.2
THETA	84.1	84.4	84.6	84.9	85.2	85.5	85.8	86.1	86.5	86.8
XSAT	-0.691	-0.701	-0.712	-0.723	-0.735	-0.745	-0.756	-0.766	-0.777	-0.787
YSAT	-0.710	-0.701	-0.690	-0.679	-0.667	-0.655	-0.644	-0.632	-0.619	-0.606
ZSAT	C.133	0.132	0.130	0.128	0.126	0.124	0.121	0.119	0.116	0.114
XSPEC	0.279	0.270	0.261	0.250	0.239	0.229	0.219	0.209	0.198	0.188
YSPEC	-0.906	-0.907	-0.909	-0.911	-0.913	-0.914	-0.915	-0.915	-0.916	-0.916
ZSPEC	C.319	0.322	0.325	0.328	0.332	0.336	0.340	0.344	0.349	0.353
REFA	18.2	19.0	19.1	23.9	16.1	22.3	29.8	41.4	48.7	51.4
IBWA	6.	8.	8.	8.	8.	6.	6.	10.	10.	12.
REFB	11.7	9.5	13.8	10.4	9.2	9.6	12.0	13.8	14.5	18.1
IBWB	6.	8.	8.	8.	8.	6.	6.	10.	8.	8.
G	133.1	133.2	133.3	133.5	133.6	133.8	133.9	134.1	134.2	134.4
X	4.7	4.5	4.2	4.0	3.8	3.5	3.3	3.0	2.7	2.5
D	5474.	5424.	5373.	5321.	5272.	5214.	5166.	5111.	5058.	5003.
RNA	10.8	11.3	11.4	14.3	9.8	13.7	18.5	26.3	31.8	34.3
RNB	7.0	5.6	8.2	6.3	5.5	5.9	7.4	8.7	9.4	12.1
BWNA	C.89	1.20	1.21	1.23	1.26	0.96	0.98	1.69	1.74	2.15
BWNB	0.89	1.20	1.21	1.23	0.94	0.96	0.98	1.69	1.39	1.43
ALGGH	1.15	1.12	1.07	1.03	1.00	0.93	0.89	0.82	0.75	0.70
DLGGH	-0.0137	-0.0122	-0.0105	-0.0093	-0.0081	-0.0068	-0.0058	-0.0047	-0.0038	-0.0031

PCLARIMETRY DATA

TGTAMP	32.	22.	25.	23.	22.	30.	31.	43.	54.	55.
PLAMP	18.	13.	15.	14.	14.	20.	21.	35.	43.	43.
UPLAMP	14.	9.	10.	9.	8.	10.	10.	8.	11.	12.
PLWIC	4.	5.	5.	6.	5.	5.	5.	6.	6.	6.
UPLWID	5.	10.	9.	9.	10.	9.	10.	9.	8.	8.
TGTPWR	142.	155.	165.	165.	150.	190.	205.	282.	346.	354.
PLPWR	72.	65.	75.	84.	70.	100.	105.	210.	258.	258.
UPLPWR	70.	90.	90.	81.	80.	90.	100.	72.	88.	96.
PP/UPP	1.03	0.72	0.83	1.04	0.88	1.11	1.05	2.92	2.93	2.69
PA/UPA	1.29	1.44	1.50	1.56	1.75	2.00	2.10	4.38	3.91	3.58
PW/UPW	0.80	0.50	0.56	0.67	0.50	0.56	0.50	0.67	0.75	0.75
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

NOTE: AN ALL-ZEROS ENTRY IN THE POLARIMETRY DATA INDICATES ONLY THAT NO DATA WAS TAKEN FOR THAT FRAME, DUE USUALLY TO THE ABSENCE OF A CLEAR SIGNAL OR, OCCASIONALLY, TO AN OBVIOUS PLOTTER ERROR.

XRD-79 20 AUGUST 1967 DAY NO. 231

FRAME NO.	27	28	29	30	31	32	33
FDAY	C.27569	0.27708	0.27847	0.27986	0.28125	0.28264	0.28403
DOFF	118.	110.	101.	91.	82.	70.	59.
BW	5.4	5.1	4.9	4.5	4.2	3.8	3.4
PHI	82.1	82.8	83.4	84.1	84.8	85.5	86.3
ALT	3728.	3659.	3590.	3519.	3449.	3377.	3305.
VEL	987.	998.	1010.	1023.	1035.	1048.	1061.
SIGPRE	0.52	0.49	0.46	0.43	0.39	0.35	0.30
SIGFAC	C.35E 30	0.34E 30	0.34E 30	0.33E 30	0.32E 30	0.31E 30	0.30E 30
PSI	112.6	113.1	113.5	114.0	114.5	115.1	115.7
THETA	87.2	87.6	88.1	88.5	89.0	89.5	90.1
XSAT	-C.798	-0.809	-0.819	-0.830	-0.840	-0.852	-0.863
YSAT	-0.592	-0.578	-0.563	-0.548	-0.533	-0.515	-0.496
ZSAT	C.111	0.108	0.106	0.103	0.100	0.097	0.094
XSPEC	0.176	0.165	0.153	0.140	0.128	0.113	0.098
YSPEC	-0.916	-0.916	-0.916	-0.915	-0.914	-0.912	-0.910
ZSPEC	C.359	0.364	0.370	0.377	0.384	0.393	0.402
REFA	52.2	38.6	37.0	21.0	0.0	6.0	0.0
IBWA	1C.	10.	10.	10.	0.	8.	0.
REFB	16.9	11.4	11.4	8.7	0.0	3.4	0.0
IBWB	8.	10.	8.	10.	0.	8.	0.
G	134.6	134.8	135.0	135.2	135.4	135.7	135.9
X	2.2	1.8	1.5	1.1	0.8	0.4	0.0
D	4949.	4897.	4839.	4785.	4730.	4677.	4620.
RNA	35.9	27.8	27.7	16.5	0.0	5.6	0.0
RNB	11.7	8.2	8.5	6.8	0.0	3.2	0.0
BWNA	1.87	1.95	2.06	2.20	0.00	2.10	0.00
BWNB	1.49	1.95	1.65	2.20	0.00	2.10	0.00
ALGGH	C.62	0.51	0.43	0.32	0.23	0.12	0.00
DLGGH	-0.0024	-0.0017	-0.0012	-0.0007	-0.0004	-0.0002	0.0000

POLARIMETRY DATA

TOTAMP	61.	37.	41.	24.	0.	0.	0.
PLAMP	50.	29.	34.	18.	0.	0.	0.
UPLAMP	11.	8.	7.	6.	0.	0.	0.
PLWID	6.	6.	6.	7.	0.	0.	0.
UPLWID	8.	9.	8.	9.	0.	0.	0.
TOTPR	388.	246.	260.	180.	0.	0.	0.
PLPR	300.	174.	204.	126.	0.	0.	0.
UPLPR	88.	72.	56.	54.	0.	0.	0.
PP/UPP	3.41	2.42	3.64	2.33	0.00	0.00	0.00
PA/UPA	4.55	3.63	4.86	3.00	0.00	0.00	0.00
PW/UPW	0.75	0.67	0.75	0.78	0.00	0.00	0.00
PLSYM	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0

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FRAME NO.	1	2	3	4	5	6	7	8	9	10
FCAY	0.50000	0.50139	0.50278	0.50417	0.50556	0.50694	0.50833	0.50972	0.51111	0.51250
DOFF	-58.	-59.	-61.	-63.	-64.	-67.	-69.	-70.	-73.	-75.
BW	4.1	4.2	4.4	4.5	4.6	4.8	5.0	5.1	5.3	5.5
PHI	81.3	81.0	80.0	80.3	80.0	79.0	79.3	78.9	78.6	78.2
ALT	4544.	4486.	4427.	4368.	4308.	4248.	4186.	4125.	4063.	4000.
VEL	861.	869.	878.	886.	895.	904.	914.	923.	933.	943.
SIGPRE	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.65	0.66
SIGFAC	0.46E 30	0.45E 30	0.44E 30	0.44E 30	0.43E 30	0.42E 30	0.41E 30	0.40E 30	0.40E 30	0.39E 30
PSI	-101.5	-101.0	-100.5	-100.1	-99.6	-99.2	-98.7	-98.3	-97.9	-97.4
THETA	82.0	82.0	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1
XSAT	-0.808	-0.799	-0.790	-0.782	-0.773	-0.764	-0.754	-0.745	-0.735	-0.724
YSAT	0.573	0.586	0.599	0.611	0.622	0.634	0.646	0.657	0.669	0.681
ZSAT	0.132	0.130	0.128	0.126	0.124	0.122	0.120	0.118	0.116	0.113
XSPEC	0.199	0.205	0.212	0.218	0.223	0.228	0.234	0.240	0.246	0.251
YSPEC	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.960	0.960	0.959
ZSPEC	0.192	0.185	0.178	0.171	0.164	0.157	0.151	0.144	0.138	0.131
REFA	0.4	2.6	4.1	6.8	6.0	6.1	5.7	6.9	5.4	6.9
IBWA	4.	6.	6.	4.	4.	6.	6.	6.	4.	6.
REFB	0.0	0.0	0.0	2.8	0.9	3.2	2.5	2.7	1.3	2.0
IBWB	0.	0.	0.	8.	6.	6.	8.	6.	6.	6.
G	103.6	104.1	104.5	105.0	105.5	105.9	106.3	106.7	107.2	107.6
X	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.4
D	5776.	5705.	5636.	5570.	5496.	5424.	5348.	5278.	5205.	5126.
RNA	0.3	1.9	2.9	4.6	3.9	3.8	3.4	4.0	3.1	3.8
RNB	0.0	0.0	0.0	1.9	0.6	2.0	1.5	1.5	0.7	1.1
BWNA	0.97	1.41	1.37	0.89	0.86	1.25	1.21	1.17	0.75	1.09
BWNB	0.00	0.00	0.00	1.78	1.29	1.25	1.61	1.17	1.13	1.09
ALGGH	2.89	2.91	2.94	2.96	2.97	2.99	3.01	3.02	2.98	2.99
DLGGH	0.0250	0.0253	0.0257	0.0258	0.0256	0.0256	0.0254	0.0250	0.0237	0.0229

POLARIMETRY DATA

TOTAMP	27.	25.	24.	29.	25.	23.	17.	20.	20.	21.
PLAMP	17.	15.	16.	23.	20.	18.	15.	17.	17.	14.
UPLAMP	10.	10.	8.	6.	5.	5.	2.	3.	3.	7.
PLWID	3.	3.	4.	2.	3.	3.	5.	3.	4.	4.
UPLWID	3.	5.	7.	10.	5.	5.	5.	6.	5.	9.
TOTPWR	81.	95.	120.	106.	85.	79.	85.	69.	83.	119.
PLPWR	51.	45.	64.	46.	60.	54.	75.	51.	68.	56.
UPLPWR	30.	50.	56.	60.	25.	25.	10.	18.	15.	63.
PP/UPP	1.70	0.90	1.14	0.77	2.40	2.16	7.50	2.83	4.53	0.89
PA/UPA	1.70	1.50	2.00	3.83	4.00	3.60	7.50	5.67	5.67	2.00
PW/UPW	1.60	0.60	0.57	0.20	0.60	0.60	1.00	0.50	0.80	0.44
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

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FRAME NO.	11	12	13	14	15	16	17	18	19	20
FDAY	0.51389	0.51528	0.51667	0.51806	0.51944	0.52083	0.52222	0.52361	0.52500	0.52639
DOFF	-77.	-79.	-81.	-82.	-84.	-86.	-88.	-89.	-91.	-93.
BW	5.7	5.9	6.2	6.4	6.7	7.0	7.3	7.6	8.0	8.4
PHI	77.8	77.4	77.0	76.6	76.2	75.8	75.3	74.9	74.4	73.9
ALT	3937.	3872.	3807.	3742.	3676.	3610.	3542.	3475.	3407.	3338.
VEL	953.	963.	974.	985.	996.	1007.	1019.	1030.	1042.	1055.
SIGPRE	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76
SIGFAC	0.38E 30	0.37E 30	0.36E 30	0.36E 30	0.35E 30	0.34E 30	0.33E 30	0.32E 30	0.31E 30	0.30E 30
PSI	-57.C	-96.6	-96.2	-95.8	-95.4	-95.0	-94.6	-94.2	-93.8	-93.4
THETA	82.2	82.2	82.3	82.3	82.4	82.5	82.6	82.6	82.7	82.8
XSAT	-0.713	-0.700	-0.687	-0.673	-0.660	-0.647	-0.632	-0.617	-0.602	-0.586
YSAT	0.693	0.706	0.719	0.732	0.744	0.756	0.768	0.781	0.793	0.806
ZSAT	0.110	0.108	0.105	0.103	0.100	0.097	0.094	0.091	0.087	0.084
XSPEC	0.257	0.265	0.273	0.280	0.287	0.293	0.300	0.307	0.315	0.322
YSPEC	0.958	0.957	0.956	0.954	0.953	0.951	0.949	0.948	0.946	0.944
ZSPEC	0.125	0.119	0.113	0.107	0.102	0.096	0.090	0.084	0.078	0.073
REFA	8.1	10.0	10.2	9.2	9.6	9.7	16.1	12.6	12.4	5.5
IHWA	6.	8.	6.	6.	8.	8.	6.	6.	8.	8.
REFB	1.8	3.9	3.0	2.7	4.5	6.3	7.1	1.9	3.2	3.6
IWBW	6.	10.	4.	10.	8.	6.	6.	8.	8.	12.
G	108.0	108.3	108.7	109.1	109.5	109.8	110.2	110.5	110.8	111.2
X	6.4	6.3	6.3	6.2	6.2	6.1	6.0	6.0	5.9	5.8
D	5049.	4969.	4890.	4807.	4726.	4647.	4560.	4477.	4395.	4311.
RNA	4.3	5.2	5.0	4.4	4.4	4.3	6.8	5.1	4.8	2.1
RNB	0.9	2.0	1.5	1.3	2.1	2.8	3.0	0.8	1.2	1.4
BWNA	1.05	1.35	0.97	0.94	0.90	1.15	0.82	0.79	1.01	0.96
BWNB	1.05	1.69	0.65	1.56	1.20	0.86	0.82	1.05	1.01	1.44
ALGGH	2.99	2.96	2.95	2.90	2.89	2.84	2.77	2.75	2.69	2.60
DLGGH	C.C218	0.0204	0.0188	0.0167	0.0145	0.0121	0.0091	0.0063	0.0031	-0.0008

PCLARIMETRY DATA

TOTAMP	20.	21.	28.	21.	22.	21.	24.	22.	24.	17.
PLAMP	15.	13.	22.	15.	17.	12.	15.	11.	14.	9.
UPLAMP	5.	8.	6.	6.	5.	9.	9.	11.	10.	8.
PLWID	3.	5.	2.	3.	4.	4.	4.	3.	4.	6.
UPLWID	9.	6.	9.	10.	13.	7.	9.	5.	12.	10.
TGTPWR	90.	113.	98.	105.	133.	111.	141.	88.	176.	134.
PLPWR	45.	65.	44.	45.	68.	48.	60.	33.	56.	54.
UPLPWR	45.	48.	54.	60.	65.	63.	81.	55.	120.	80.
PP/UPP	1.00	1.35	0.81	0.75	1.05	0.70	0.74	0.60	0.47	0.67
PA/UPA	3.00	1.63	3.67	2.50	3.40	1.33	1.67	1.00	1.40	1.13
PW/UPW	C.33	0.83	0.22	0.30	0.31	0.57	0.44	0.60	0.33	0.60
PLSYM	C	0	0	0	0	0	0	0	0	0
UPLSYM	C	0	0	0	0	0	0	0	0	0

NOTE: AN ALL-ZERUS ENTRY IN THE PCLARIMETRY DATA INDICATES ONLY THAT NO DATA WAS TAKEN FOR THAT FRAME, DUE USUALLY TO THE ABSENCE OF A CLEAR SIGNAL OR, OCCASIONALLY, TO AN OBVIOUS PLOTTER ERROR.

XRD-87 26 AUGUST 1967 DAY NU. 237

FRAME NO.	21	22	23	24	25	26	27	28	29	30
FDAY	C.52778	0.52917	0.53056	0.53194	0.53333	0.53472	0.53611	0.53750	0.53889	0.54028
DUFF	-95.	-96.	-98.	-99.	-100.	-102.	-102.	-103.	-104.	-105.
BW	8.7	9.2	9.7	10.2	10.8	11.3	12.0	12.7	13.5	14.4
PHI	73.4	72.9	72.4	71.9	71.3	70.8	70.2	69.6	68.9	68.3
ALT	3269.	3199.	3129.	3058.	2987.	2915.	2843.	2771.	2699.	2626.
VEL	1067.	1080.	1093.	1107.	1120.	1134.	1149.	1164.	1179.	1194.
SIGPRE	0.77	0.78	0.79	0.81	0.82	0.83	0.84	0.85	0.87	0.88
SIGFAC	C.29E 30	0.28E 30	0.27E 30	0.27E 30	0.26E 30	0.25E 30	0.24E 30	0.23E 30	0.23E 30	0.22E 30
PSI	-93.1	-92.7	-92.3	-91.9	-91.6	-91.2	-90.8	-90.5	-90.1	-89.8
THETA	82.9	83.1	83.2	83.3	83.5	83.6	83.8	84.0	84.2	84.4
XSAT	-0.570	-0.552	-0.533	-0.513	-0.492	-0.470	-0.447	-0.424	-0.400	-0.375
YSAT	0.818	0.830	0.843	0.855	0.868	0.881	0.892	0.903	0.914	0.925
ZSAT	C.080	0.076	0.072	0.068	0.064	0.060	0.055	0.050	0.045	0.040
XSPEC	C.330	0.338	0.346	0.355	0.365	0.375	0.385	0.394	0.404	0.414
YSPEC	0.942	0.939	0.936	0.933	0.930	0.926	0.922	0.919	0.915	0.910
ZSPEC	C.068	0.062	0.057	0.051	0.046	0.040	0.035	0.030	0.024	0.019
REFA	6.7	10.4	11.4	12.6	7.6	13.1	7.0	11.7	7.3	12.7
IBWA	6.	6.	6.	6.	8.	6.	6.	6.	6.	8.
REFB	2.4	7.7	5.5	6.6	4.7	4.2	6.2	6.6	8.0	11.3
IBWB	10.	6.	6.	12.	12.	14.	8.	6.	6.	12.
G	111.5	111.8	112.1	112.4	112.7	112.9	113.2	113.4	113.7	113.9
X	5.7	5.6	5.5	5.4	5.2	5.1	5.0	4.8	4.6	4.4
D	4228.	4138.	4050.	3959.	3870.	3782.	3686.	3591.	3498.	3406.
RNA	2.5	3.7	3.8	4.0	2.3	3.9	2.0	3.2	1.9	3.1
RNB	C.9	2.7	1.8	2.1	1.5	1.2	1.7	1.8	2.1	2.8
BWNA	C.69	0.65	0.62	0.59	0.74	0.53	0.50	0.47	0.44	0.56
BWNB	1.14	0.65	0.62	1.18	1.11	1.23	0.66	0.47	0.44	0.83
ALGGH	2.53	2.44	2.35	2.26	2.12	2.02	1.91	1.76	1.60	1.45
DLGGH	-0.0044	-0.0085	-0.0126	-0.0171	-0.0213	-0.0258	-0.0307	-0.0347	-0.0385	-0.0422

PCLARIMETRY DATA

TUTAMP	22.	21.	20.	22.	17.	26.	21.	23.	29.	22.
PLAMP	10.	8.	6.	10.	7.	12.	6.	5.	14.	10.
UPLAMP	12.	13.	14.	12.	10.	14.	15.	18.	15.	12.
PLWID	5.	5.	2.	5.	5.	4.	6.	5.	3.	3.
UPLWID	8.	6.	6.	9.	8.	8.	6.	6.	6.	9.
TOTPWR	146.	118.	96.	158.	115.	160.	126.	133.	132.	138.
PLPWR	50.	40.	12.	50.	35.	48.	36.	25.	42.	30.
UPLPWR	96.	78.	84.	108.	80.	112.	90.	108.	90.	108.
PP/UPP	0.52	0.51	0.14	0.46	0.44	0.43	0.40	0.23	0.47	0.28
PA/UPA	0.83	0.62	0.43	0.83	0.70	0.86	0.40	0.28	0.93	0.83
PW/UPW	0.63	0.83	0.33	0.56	0.63	0.50	1.00	0.83	0.50	0.33
PLSYM	C	0	0	0	0	1	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	1

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FRAME NO.	31	32	33	34	35	36	37	38	39	40
FDAY	C.54167	0.54306	0.54444	0.54583	0.54722	0.54861	0.55000	0.55139	0.55278	0.55417
DOFF	-106.	-105.	-105.	-105.	-105.	-105.	-103.	-102.	-101.	-99.
BW	15.3	16.3	17.4	18.7	20.0	21.4	23.2	25.0	27.0	29.3
PHI	67.6	66.9	66.1	65.4	64.6	63.7	62.8	61.9	60.9	59.9
ALT	2553.	2479.	2406.	2332.	2259.	2186.	2113.	2040.	1968.	1897.
VEL	1210.	1227.	1244.	1261.	1278.	1295.	1313.	1332.	1351.	1370.
SIGPRE	0.90	0.92	0.94	0.96	0.98	1.00	1.02	1.05	1.07	1.10
SIGFAC	C.22E 30	0.21E 30	0.20E 30	0.20E 30	0.19E 30	0.18E 30	0.17E 30	0.16E 30	0.16E 30	0.15E 30
PSI	-89.4	-89.1	-88.7	-88.4	-88.0	-87.7	-87.4	-87.1	-86.8	-86.5
THETA	84.6	84.8	85.1	85.4	85.7	86.0	86.3	86.7	87.1	87.5
XSAT	-0.350	-0.322	-0.293	-0.263	-0.231	-0.199	-0.162	-0.125	-0.087	-0.048
YSAT	C.936	0.946	0.955	0.964	0.972	0.980	0.986	0.991	0.995	0.997
ZSAT	C.035	0.029	0.024	0.018	0.011	0.005	-0.002	-0.009	-0.016	-0.023
XSPEC	0.424	0.435	0.446	0.458	0.470	0.482	0.497	0.512	0.526	0.541
YSPEC	C.906	0.900	0.895	0.889	0.882	0.876	0.868	0.859	0.850	0.840
ZSPEC	C.013	0.007	0.002	-0.004	-0.009	-0.014	-0.020	-0.025	-0.031	-0.037
REFA	12.8	15.8	15.4	14.0	17.1	0.0	0.0	0.0	0.0	0.0
IBWA	4.	6.	14.	10.	14.	0.	0.	0.	0.	0.
REFB	10.2	6.9	9.4	11.4	10.9	9.9	11.2	13.6	13.0	8.9
IBWR	8.	14.	16.	10.	14.	20.	18.	24.	26.	10.
G	114.1	114.3	114.5	114.7	114.9	115.0	115.1	115.2	115.2	115.3
X	4.3	4.0	3.8	3.6	3.4	3.1	2.9	2.6	2.3	1.9
D	3315.	3219.	3120.	3024.	2927.	2832.	2730.	2631.	2533.	2434.
RNA	3.0	3.5	3.3	2.8	3.3	0.0	0.0	0.0	0.0	0.0
RNB	2.4	1.5	2.0	2.3	2.1	1.8	1.9	2.2	2.0	1.3
BWNA	0.26	0.37	0.80	0.54	0.70	0.00	0.00	0.00	0.00	0.00
BWNB	0.52	0.86	0.92	0.54	0.70	0.93	0.78	0.96	0.96	0.34
ALGGH	1.33	1.14	0.98	0.82	0.67	0.51	0.36	0.22	0.10	-0.01
DLGGH	-0.0463	-0.0482	-0.0503	-0.0519	-0.0527	-0.0511	-0.0503	-0.0467	-0.0423	-0.0349

POLARIMETRY DATA

TOTAMP	34.	24.	20.	14.	17.	12.	16.	19.	21.	20.
PLAMP	25.	16.	10.	7.	9.	5.	9.	13.	16.	13.
UPLAMP	9.	8.	10.	7.	8.	7.	7.	6.	5.	7.
PLWID	3.	4.	8.	11.	9.	13.	8.	6.	6.	8.
UPLWID	8.	10.	15.	9.	12.	15.	17.	15.	8.	10.
TOTPWR	147.	144.	230.	140.	177.	170.	191.	168.	136.	174.
PLPWR	75.	64.	80.	77.	81.	65.	72.	78.	96.	104.
UPLPWR	72.	80.	150.	63.	96.	105.	119.	90.	40.	70.
PP/UPP	1.04	0.80	0.53	1.22	0.84	0.62	0.61	0.87	2.40	1.49
PA/UPA	2.78	2.00	1.00	1.00	1.13	0.71	1.29	2.17	3.20	1.86
PW/UPW	C.38	0.40	0.53	1.22	0.75	0.87	0.47	0.40	0.75	0.80
PLSYM	0	0	0	0	0	0	0	1	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

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FRAME NO.	1	2	3	4	5	6	7	8	9	10
FDAY	0.55486	0.55625	0.55764	0.55903	0.56042	0.56181	0.56319	0.56458	0.56597	0.56736
DOFF	-98.	-96.	-93.	-90.	-87.	-83.	-80.	-76.	-72.	-68.
BW	30.5	33.2	36.2	39.3	43.3	47.4	52.1	57.4	62.8	69.7
PHI	59.4	58.3	57.1	55.9	54.6	53.2	51.7	50.1	48.6	46.7
ALT	1861.	1790.	1721.	1651.	1585.	1519.	1455.	1394.	1332.	1277.
VEL	1379.	1399.	1418.	1438.	1458.	1478.	1498.	1518.	1538.	1557.
SIGPRE	1.12	1.15	1.18	1.22	1.26	1.31	1.35	1.40	1.45	1.51
SIGFAC	0.15E 30	0.15E 30	0.14E 30	0.13E 30	0.13E 30	0.12E 30	0.12E 30	0.11E 30	0.11E 30	0.11E 30
PSI	-86.4	-86.1	-85.9	-85.7	-85.5	-85.4	-85.3	-85.3	-85.3	-85.6
THETA	87.7	88.2	88.8	89.3	89.9	90.5	91.2	92.0	92.8	93.7
XSAT	-0.028	0.014	0.058	0.102	0.150	0.197	0.247	0.298	0.349	0.403
YSAT	0.998	0.998	0.995	0.993	0.985	0.977	0.965	0.948	0.932	0.906
ZSAT	-0.027	-0.035	-0.043	-0.051	-0.060	-0.069	-0.078	-0.087	-0.096	-0.105
XSPEC	0.549	0.564	0.581	0.597	0.615	0.633	0.652	0.673	0.693	0.716
YSPEC	0.835	0.824	0.813	0.801	0.786	0.771	0.754	0.735	0.716	0.691
ZSPEC	-0.040	-0.046	-0.051	-0.057	-0.063	-0.070	-0.076	-0.082	-0.088	-0.094
REFA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.0	2.3
IBWA	0.	0.	0.	0.	0.	0.	0.	16.	14.	6.
REWB	17.8	26.4	25.8	23.2	27.6	29.0	29.8	28.0	30.4	31.3
IBWB	14.	6.	16.	20.	14.	10.	14.	16.	12.	24.
G	115.3	115.2	115.1	115.1	114.8	114.4	113.9	113.2	112.5	111.5
X	1.8	1.4	1.0	0.6	0.1	-0.3	-0.7	-1.1	-1.5	-2.1
D	2387.	2287.	2185.	2092.	1993.	1901.	1808.	1713.	1628.	1539.
RNA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.2
RNB	2.5	3.5	3.2	2.7	3.0	3.0	2.9	2.5	2.6	2.5
BWNA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.22	0.09
BWNB	0.46	0.18	0.44	0.51	0.32	0.21	0.27	0.28	0.19	0.34
ALGGH	-0.05	-0.11	-0.13	-0.10	-0.02	0.08	0.23	0.41	0.61	0.92
DLGGH	-0.0328	-0.0249	-0.0168	-0.0092	-0.0014	0.0035	0.0064	0.0073	0.0063	0.0036

POLARIMETRY DATA

TUTAMP	32.	41.	29.	20.	27.	30.	26.	24.	24.	21.
PLAMP	14.	21.	14.	10.	17.	20.	19.	17.	18.	17.
UPLAMP	18.	20.	15.	10.	10.	10.	7.	7.	6.	4.
PLWID	8.	7.	5.	8.	9.	9.	10.	14.	13.	13.
UPLWID	5.	4.	7.	9.	8.	8.	11.	8.	8.	10.
TUTPWR	202.	227.	175.	170.	233.	260.	267.	294.	282.	261.
PLPWR	112.	147.	70.	80.	153.	180.	190.	238.	234.	221.
UPLPWR	90.	80.	105.	90.	80.	80.	77.	56.	48.	40.
PP/UPP	1.24	1.84	0.67	0.89	1.91	2.25	2.47	4.25	4.88	5.52
PA/UPA	0.78	1.05	0.93	1.00	1.70	2.00	2.71	2.43	3.00	4.25
PW/UPW	1.60	1.75	0.71	0.89	1.13	1.13	0.91	1.75	1.63	1.30
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	1	1	0	0	0	0	0	0	0	0

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FRAME NO.	11	12	13	14	15	16	17	18	19	20
FDAY	C.56875	0.57014	0.57153	0.57292	0.57431	0.57569	0.57708	0.57847	0.57986	0.58125
DUFF	-65.	-63.	-61.	-60.	-62.	-64.	-68.	-75.	-82.	-93.
BW	76.7	84.5	93.2	101.8	111.6	121.4	131.1	140.7	150.3	157.4
PHI	44.8	42.8	40.6	38.4	35.9	33.4	30.7	27.8	25.0	22.0
ALT	1222.	1170.	1123.	1076.	1039.	1002.	972.	947.	922.	911.
VEL	1576.	1594.	1611.	1628.	1642.	1655.	1667.	1676.	1686.	1691.
SIGPRE	1.57	1.63	1.70	1.76	1.82	1.89	1.95	2.00	2.06	2.10
SIGFAC	0.10E 30	0.99E 29	0.96E 29	0.93E 29	0.91E 29	0.88E 29	0.86E 29	0.85E 29	0.83E 29	0.82E 29
PSI	-85.8	-86.2	-86.8	-87.4	-88.5	-89.7	-91.4	-93.5	-95.6	-99.6
THETA	94.6	95.6	96.6	97.7	98.8	99.9	101.1	102.2	103.3	104.3
XSAT	0.458	0.512	0.565	0.618	0.668	0.717	0.763	0.806	0.848	0.880
YSAT	0.879	0.848	0.811	0.774	0.725	0.676	0.621	0.560	0.499	0.429
ZSAT	-0.114	-0.123	-0.132	-0.141	-0.149	-0.157	-0.164	-0.170	-0.176	-0.180
XSPEC	0.739	0.762	0.785	0.809	0.832	0.855	0.878	0.899	0.920	0.936
YSPEC	0.666	0.638	0.607	0.576	0.538	0.499	0.457	0.411	0.365	0.312
ZSPEC	-0.100	-0.106	-0.112	-0.118	-0.123	-0.128	-0.133	-0.137	-0.141	-0.143
REFA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.0
IBWA	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.
REFB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.9	49.0
IBWB	0.	0.	0.	0.	0.	0.	0.	0.	60.	82.
G	110.5	109.2	107.6	106.1	103.9	101.6	99.0	95.8	92.7	87.9
X	-2.6	-3.0	-3.2	-3.5	-3.9	-4.2	-4.1	-4.1	-4.0	-3.9
D	1455.	1378.	1303.	1238.	1170.	1115.	1062.	1016.	980.	949.
RNA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
RNB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	2.4
BWNA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
BWNB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.52
ALGGH	1.20	1.43	1.55	1.67	1.82	1.89	1.76	1.67	1.54	1.42
DLGGH	-0.0007	-0.0055	-0.0094	-0.0117	-0.0134	-0.0133	-0.0110	-0.0088	-0.0065	-0.0045

POLARIMETRY DATA

TGTAMP	14.	7.	0.	0.	0.	0.	0.	0.	0.	0.
PLAMP	9.	6.	0.	0.	0.	0.	0.	0.	0.	0.
UPLAMP	5.	1.	0.	0.	0.	0.	0.	0.	0.	0.
PLWID	20.	15.	0.	0.	0.	0.	0.	0.	0.	0.
UPLWID	5.	1.	0.	0.	0.	0.	0.	0.	0.	0.
TOTPWR	205.	91.	0.	0.	0.	0.	0.	0.	0.	0.
PLPWR	180.	90.	0.	0.	0.	0.	0.	0.	0.	0.
UPLPWR	25.	1.	0.	0.	0.	0.	0.	0.	0.	0.
PP/UPP	7.20	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA/UPA	1.80	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PW/UPW	4.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PLSYM	0	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

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FRAME NU.	21	22	23	24	25	26	27	28	29	30
FDAY	0.58264	0.58403	0.58542	0.58681	0.58819	0.58958	0.59097	0.59236	0.59375	0.59514
DOFF	-105.	-118.	-131.	-146.	-158.	-170.	-179.	-186.	-194.	-195.
BW	164.6	169.6	172.4	175.2	173.0	170.9	166.7	160.6	154.4	146.2
PHI	19.0	16.0	13.2	10.3	8.8	7.3	7.3	8.7	10.2	12.5
ALT	9CC.	895.	898.	901.	918.	935.	958.	988.	1018.	1059.
VEL	1696.	1697.	1696.	1695.	1688.	1681.	1672.	1661.	1649.	1634.
SIGPRE	2.14	2.17	2.18	2.20	2.19	2.18	2.17	2.14	2.11	2.07
SIGFAC	0.81E 29	0.81E 29	0.82E 29	0.82E 29	0.83E 29	0.84E 29	0.85E 29	0.87E 29	0.89E 29	0.92E 29
PSI	-103.5	-109.7	-118.1	-126.6	-4.9	116.9	167.4	146.6	125.7	118.1
THETA	105.2	106.0	106.6	107.1	107.3	107.4	107.3	107.0	106.7	106.1
XSAT	C.912	0.937	0.955	0.973	0.976	0.979	0.976	0.966	0.956	0.935
YSAT	0.359	0.286	0.209	0.132	0.056	-0.020	-0.094	-0.166	-0.238	-0.303
ZSAT	-C.184	-0.186	-0.187	-0.188	-0.186	-0.185	-0.182	-0.177	-0.173	-0.167
XSPEC	0.953	0.966	0.975	0.985	0.986	0.987	0.985	0.979	0.973	0.962
YSPEC	C.259	0.203	0.144	0.086	0.029	-0.028	-0.082	-0.135	-0.187	-0.233
ZSPEC	-C.146	-0.147	-0.148	-0.148	-0.146	-0.145	-0.142	-0.139	-0.135	-0.131
REFA	C.0	0.0	43.3	41.4	52.8	12.8	53.5	66.1	59.9	66.6
IBWA	C.	0.	70.	106.	68.	8.	120.	94.	104.	102.
REFB	53.7	61.5	4.9	65.9	76.8	121.8	85.6	122.2	162.5	142.9
IBWB	86.	108.	10.	52.	64.	80.	92.	76.	94.	46.
G	83.4	77.5	69.2	61.0	2.8	124.6	175.0	154.1	133.2	125.3
X	-4.0	-4.5	-4.9	-5.2	-5.3	-5.4	-5.3	-5.1	-5.0	-4.6
D	929.	915.	907.	911.	916.	934.	958.	987.	1029.	1069.
RNA	0.0	0.0	2.0	1.9	2.5	0.6	2.6	3.3	3.1	3.6
RNB	2.5	2.8	0.2	3.0	3.6	5.8	4.1	6.1	8.4	7.8
BWNA	C.00	0.00	0.41	0.61	0.39	0.05	0.72	0.58	0.67	0.70
BWNB	0.52	0.64	0.06	0.30	0.37	0.47	0.55	0.47	0.61	0.31
ALGGH	1.38	1.49	1.56	1.62	1.57	1.66	1.59	1.53	1.53	1.43
DLGGH	-0.0031	-0.0021	-0.0012	-0.0005	0.0007	-0.0002	0.0005	0.0004	-0.0000	-0.0004

POLARIMETRY DATA

TOTAMP	C.	0.	0.	0.	0.	0.	0.	0.	17.	13.
PLAMP	C.	0.	0.	0.	0.	0.	0.	0.	12.	8.
UPLAMP	C.	0.	0.	0.	0.	0.	0.	0.	5.	5.
PLWID	C.	0.	0.	0.	0.	0.	0.	0.	20.	29.
UPLWID	C.	0.	0.	0.	0.	0.	0.	0.	12.	22.
TOTPWR	C.	0.	0.	0.	0.	0.	0.	0.	300.	342.
PLPWR	C.	0.	0.	0.	0.	0.	0.	0.	240.	232.
UPLPWR	C.	0.	0.	0.	0.	0.	0.	0.	60.	110.
PP/UPP	C.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	2.11
PA/UPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	1.60
PW/UPW	C.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	1.32
PLSYM	C	0	0	0	0	0	0	0	0	0
UPLSYM	0	0	0	0	0	0	0	0	0	0

NOTE: AN ALL-ZEROS ENTRY IN THE POLARIMETRY DATA INDICATES ONLY THAT NO DATA WAS TAKEN FOR THAT FRAME, DUE USUALLY TO THE ABSENCE OF A CLEAR SIGNAL OR, OCCASIONALLY, TO AN OBVIOUS PLOTTER ERROR.

XRD-88 26 AUGUST 1967 DAY NO. 237

FRAME NO.	31	32	33	34	35	36	37
FDAY	0.59653	0.59792	0.59931	0.60069	0.60208	0.60347	0.60486
DOFF	-196.	-194.	-191.	-187.	-178.	-171.	-161.
BW	138.0	129.7	121.2	112.6	104.9	97.2	90.0
PHI	14.8	17.1	19.4	21.6	23.6	25.6	27.5
ALT	110C.	1146.	1197.	1247.	1305.	1363.	1424.
VEL	1619.	1602.	1585.	1567.	1547.	1528.	1508.
SIGPRE	2.03	1.99	1.94	1.89	1.84	1.79	1.75
SIGFAC	0.95E 29	0.97E 29	0.98E 29	0.10E 30	0.10E 30	0.11E 30	0.11E 30
PSI	110.5	104.9	101.4	97.9	96.0	94.0	92.5
THETA	105.5	104.8	104.1	103.3	102.5	101.7	100.9
XSAT	C.914	0.889	0.860	0.831	0.796	0.761	0.726
YSAT	-C.368	-0.428	-0.483	-0.539	-0.586	-0.633	-0.676
ZSAT	-0.161	-0.154	-0.147	-0.140	-0.132	-0.125	-0.117
XSPEC	C.951	0.938	0.923	0.909	0.893	0.877	0.861
YSPEC	-C.280	-0.323	-0.362	-0.402	-0.436	-0.469	-0.499
ZSPEC	-0.126	-0.121	-0.116	-0.110	-0.105	-0.100	-0.094
REFA	55.2	68.7	78.5	84.7	92.4	98.3	105.2
IBWA	108.	104.	90.	98.	108.	64.	64.
REFB	160.1	171.3	210.3	197.4	141.5	141.3	151.9
IBWB	72.	44.	44.	28.	30.	42.	28.
G	117.5	111.9	109.1	106.3	105.0	103.8	102.9
X	-4.2	-3.9	-4.0	-4.0	-4.1	-4.1	-4.1
D	1120.	1174.	1233.	1300.	1363.	1436.	1515.
RNA	3.2	4.1	5.0	3.7	3.8	3.7	2.8
RNB	9.2	10.3	13.5	13.3	10.1	10.8	12.2
BWNA	0.78	0.80	0.74	0.87	1.03	0.66	0.71
BWNB	0.52	0.34	0.36	0.25	0.29	0.43	0.31
ALGGH	1.33	1.28	1.35	1.40	1.49	1.54	1.61
DLGGH	-0.0009	-0.0016	-0.0024	-0.0034	-0.0044	-0.0057	-0.0071

POLARIMETRY DATA

TOTAMP	11.	15.	21.	22.	20.	16.	23.
PLAMP	7.	12.	17.	16.	14.	12.	19.
UPLAMP	4.	3.	4.	6.	6.	4.	4.
PLWID	34.	25.	25.	25.	25.	23.	22.
UPLWID	25.	15.	15.	13.	11.	13.	13.
TOTPWR	338.	345.	485.	478.	416.	328.	470.
PLPWR	238.	300.	425.	400.	350.	276.	418.
UPLPWR	100.	45.	60.	78.	66.	52.	52.
PP/UPP	2.38	5.67	7.08	5.13	5.30	5.31	8.04
PA/UPA	1.75	4.00	4.25	2.67	2.33	3.00	4.75
PW/UPW	1.36	1.67	1.67	1.92	2.27	1.77	1.69
PLSYM	0	1	1	0	0	0	0
UPLSYM	C	0	0	0	0	0	0

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FRAME NU.	3	4	5	6	7	8	9	10	11	12
FDAY	0.60833	0.60972	0.61111	0.61250	0.61389	0.61528	0.61667	0.61806	0.61944	0.62083
DIFF	-136.	-126.	-116.	-105.	-94.	-84.	-74.	-65.	-56.	-47.
BW	74.3	69.0	63.6	59.4	55.2	51.4	48.0	44.7	42.0	39.3
PHI	31.8	33.3	34.8	36.1	37.4	38.6	39.8	40.9	41.9	42.9
ALT	1585.	1652.	1720.	1791.	1862.	1933.	2009.	2077.	2150.	2223.
VEL	1458.	1438.	1418.	1398.	1379.	1360.	1341.	1322.	1304.	1286.
SIGPRE	1.64	1.60	1.56	1.53	1.50	1.46	1.43	1.40	1.38	1.35
SIGFAC	0.13E 30	0.14E 30	0.14E 30	0.14E 30	0.15E 30	0.15E 30	0.16E 30	0.17E 30	0.18E 30	0.19E 30
PSI	85.7	88.9	88.2	87.7	87.3	86.9	86.6	86.3	86.1	85.9
THETA	99.0	98.3	97.6	97.0	96.3	95.7	95.1	94.6	94.1	93.6
XSAT	0.636	0.599	0.563	0.527	0.491	0.456	0.422	0.388	0.354	0.320
YSAT	-0.765	-0.794	-0.823	-0.845	-0.868	-0.887	-0.904	-0.921	-0.934	-0.947
ZSAT	-0.097	-0.090	-0.082	-0.074	-0.067	-0.060	-0.053	-0.046	-0.039	-0.032
XSPEC	0.822	0.807	0.792	0.778	0.763	0.750	0.737	0.724	0.711	0.698
YSPEC	-0.563	-0.585	-0.607	-0.625	-0.642	-0.659	-0.674	-0.689	-0.702	-0.715
ZSPEC	-0.080	-0.075	-0.070	-0.065	-0.060	-0.056	-0.051	-0.047	-0.043	-0.038
REFA	28.8	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0
IBWA	40.	0.	0.	0.	0.	16.	0.	0.	0.	0.
REFB	110.7	76.7	129.1	96.1	82.9	24.5	0.0	0.0	0.0	0.0
IBWB	28.	34.	30.	24.	24.	14.	0.	0.	0.	0.
G	101.9	101.8	101.7	101.8	101.9	102.1	102.3	102.5	102.8	103.1
X	-3.9	-3.7	-3.5	-3.3	-3.2	-3.0	-2.8	-2.6	-2.3	-2.0
D	1717.	1797.	1887.	1968.	2061.	2147.	2235.	2329.	2417.	2510.
RNA	2.7	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
RNB	10.3	7.6	13.5	10.7	9.7	3.1	0.0	0.0	0.0	0.0
BWNA	0.54	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
BWNB	0.38	0.49	0.47	0.40	0.43	0.27	0.00	0.00	0.00	0.00
ALGGH	1.68	1.66	1.63	1.59	1.60	1.55	1.49	1.43	1.29	1.15
DLGGH	-0.0105	-0.0115	-0.0125	-0.0132	-0.0142	-0.0145	-0.0146	-0.0145	-0.0132	-0.0117

POLARIMETRY DATA

TOTAMP	26.	48.	55.	34.	26.	25.	27.	34.	15.	0.
PLAMP	20.	37.	44.	22.	19.	19.	20.	29.	13.	0.
UPLAMP	6.	11.	11.	12.	7.	6.	7.	5.	2.	0.
PLWID	22.	15.	9.	17.	17.	13.	14.	9.	9.	0.
UPLWID	18.	12.	18.	16.	18.	13.	13.	11.	5.	0.
TOTPWR	548.	687.	594.	566.	449.	325.	371.	316.	127.	0.
PLPWR	440.	555.	396.	374.	323.	247.	280.	261.	117.	0.
UPLPWR	108.	132.	198.	192.	126.	78.	91.	55.	10.	0.
PP/UPP	4.07	4.20	2.00	1.95	2.56	3.17	3.08	4.75	11.70	0.00
PA/UPA	3.33	3.36	4.00	1.83	2.71	3.17	2.86	5.80	6.50	0.00
PW/UPW	1.22	1.25	0.50	1.06	0.94	1.00	1.08	0.82	1.80	0.00
PLSYM	1	1	0	0	0	0	0	0	0	0
UPLSYM	C	C	0	0	0	0	0	0	0	0

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XRD-89 26 AUGUST 1967 DAY NO. 237

FRAME NO.	13	14	15	16
FDAY	C.62222	0.62361	0.62500	0.62639
OGFF	-38.	-30.	-22.	-15.
BW	36.9	34.8	32.7	31.0
PHI	43.9	44.8	45.7	46.5
ALT	2297.	2370.	2443.	2517.
VEL	1269.	1252.	1235.	1219.
SIGPRE	1.33	1.30	1.28	1.26
SIGFAC	C.19E 30	0.20E 30	0.20E 30	0.21E 30
PSI	85.8	85.7	85.6	85.6
THETA	93.1	92.6	92.2	91.8
XSAT	0.288	0.257	0.227	0.199
YSAT	-0.957	-0.966	-0.974	-0.980
ZSAT	-C.026	-0.020	-0.014	-0.009
XSPEC	C.685	0.674	0.662	0.652
YSPEC	-0.727	-0.733	-0.749	-0.753
ZSPEC	-C.034	-0.030	-0.026	-0.022
REFA	0.0	0.0	0.0	0.0
IBWA	C.	0.	0.	0.
REFB	C.0	0.0	0.0	0.0
IBWB	C.	0.	0.	0.
G	102.4	103.7	104.0	104.3
X	-1.7	-1.5	-1.2	-1.0
D	2595.	2688.	2778.	2867.
RNA	C.0	0.0	0.0	0.0
RNB	C.0	0.0	0.0	0.0
BWNA	C.00	0.00	0.00	0.00
BWNB	0.00	0.00	0.00	0.00
ALGGH	1.00	0.89	0.72	0.60
DLGGH	-C.0099	-0.0084	-0.0062	-0.0046

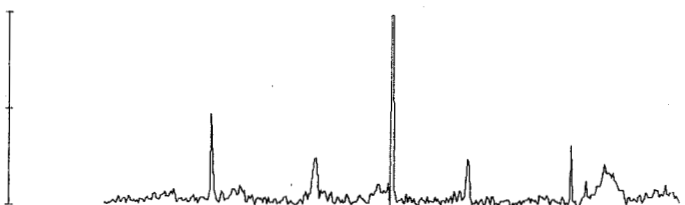
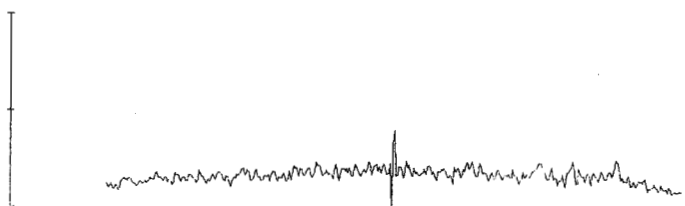
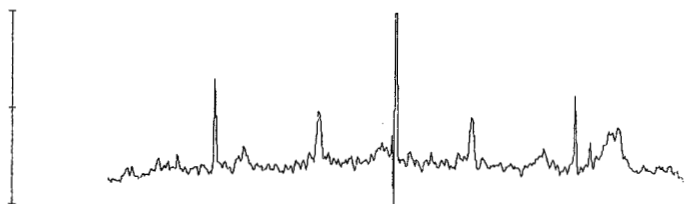
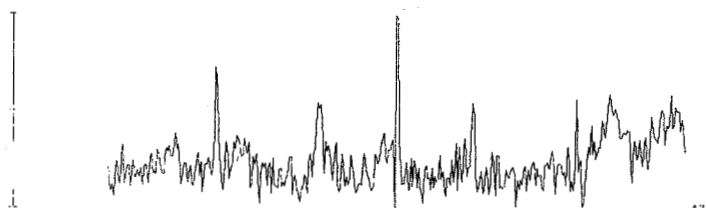
PCLARIMETRY DATA

TCTAMP	0.	0.	0.	0.
PLAMP	C.	0.	0.	0.
UPLAMP	0.	0.	0.	0.
PLWID	C.	0.	0.	0.
UPLWID	C.	0.	0.	0.
TCTPWR	C.	0.	0.	0.
PLPWR	C.	0.	0.	0.
UPLPWR	0.	0.	0.	0.
PP/LPP	C.00	0.00	0.00	0.00
PA/UPA	0.00	0.00	0.00	0.00
PW/UPW	C.00	0.00	0.00	0.00
PLSYM	C	0	0	0
UPLSYM	0	0	0	0

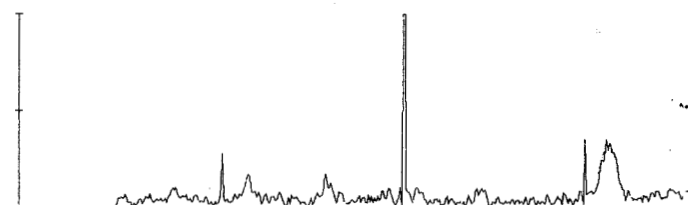
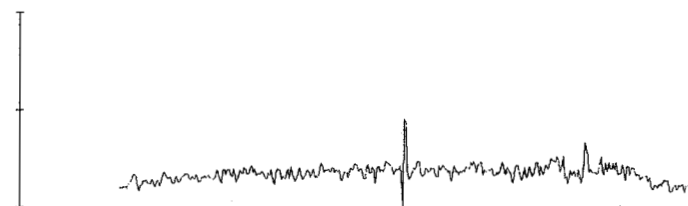
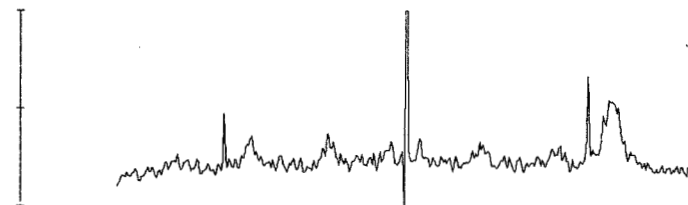
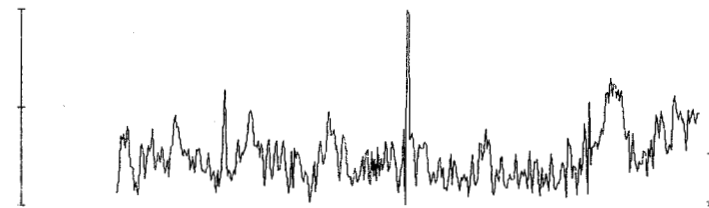
NOTE: AN ALL-ZERUS ENTRY IN THE POLARIMETRY DATA INDICATES ONLY THAT NO DATA WAS TAKEN FOR THAT FRAME, DUE USUALLY TO THE ABSENCE OF A CLEAR SIGNAL OR, OCCASIONALLY, TO AN OBVIOUS PLUTTER ERROR.

STOP

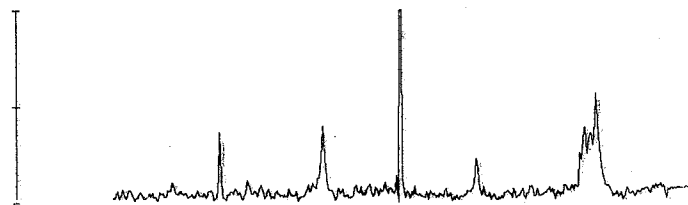
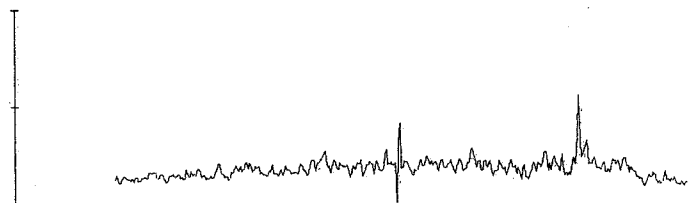
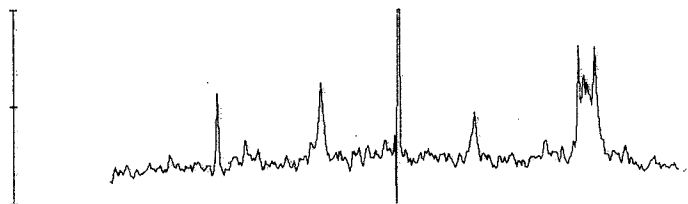
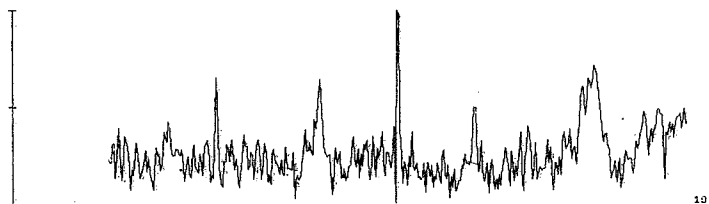
XRD-56/17



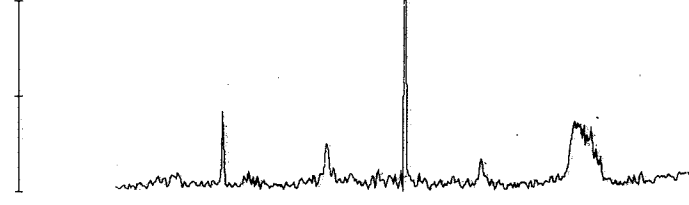
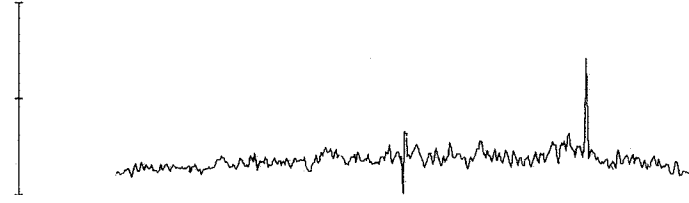
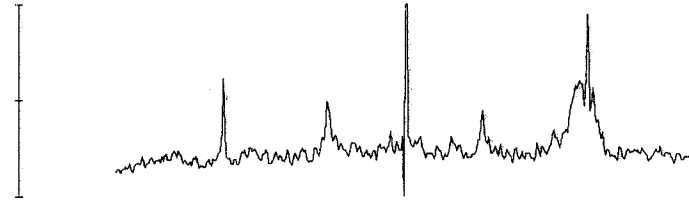
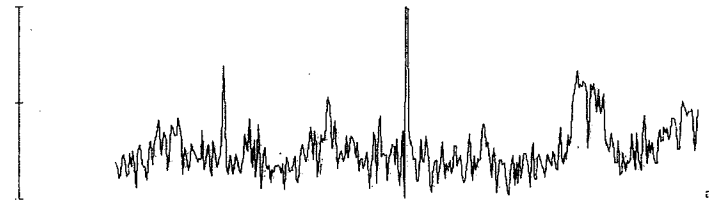
XRD-56/18



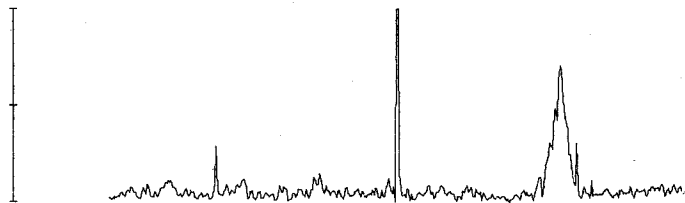
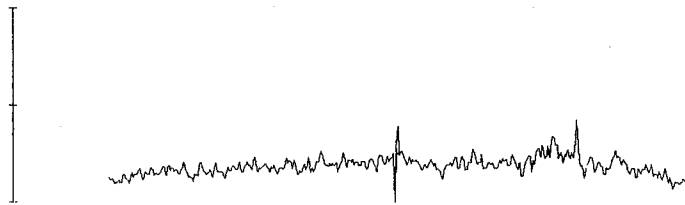
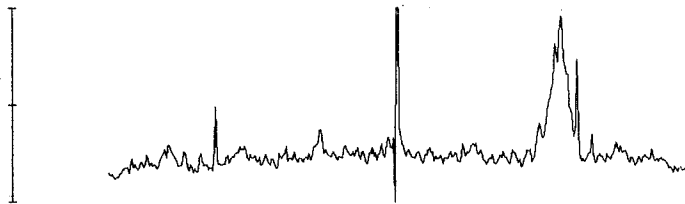
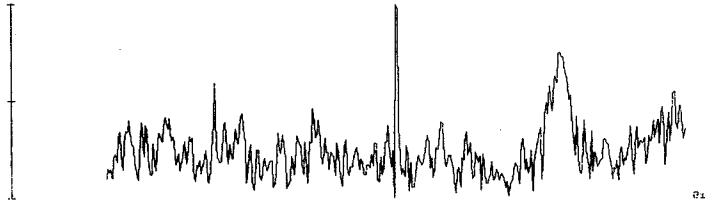
XRD-56/19



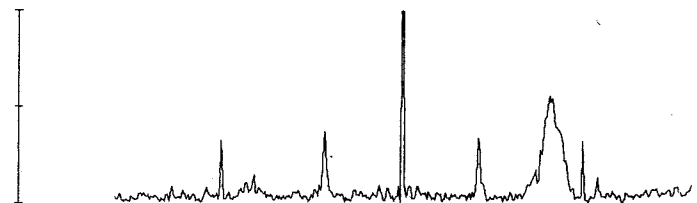
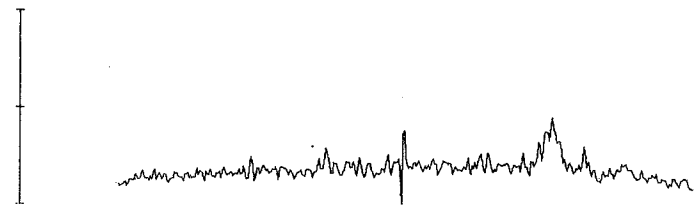
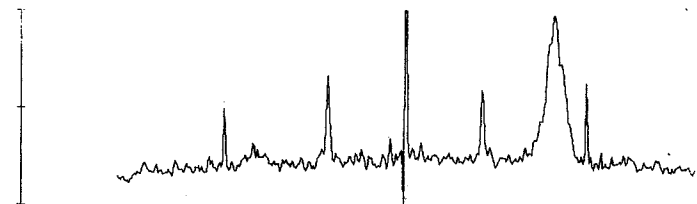
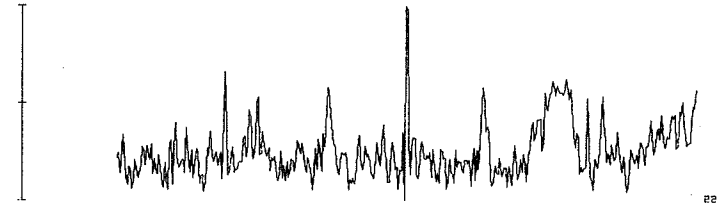
XRD-56/20



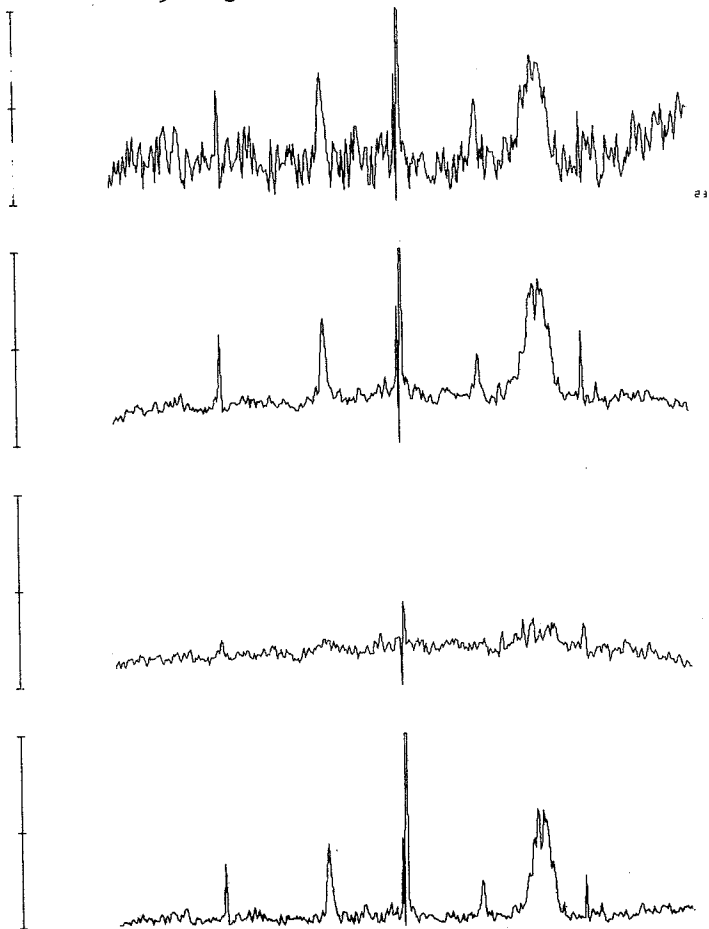
XRD-56/21



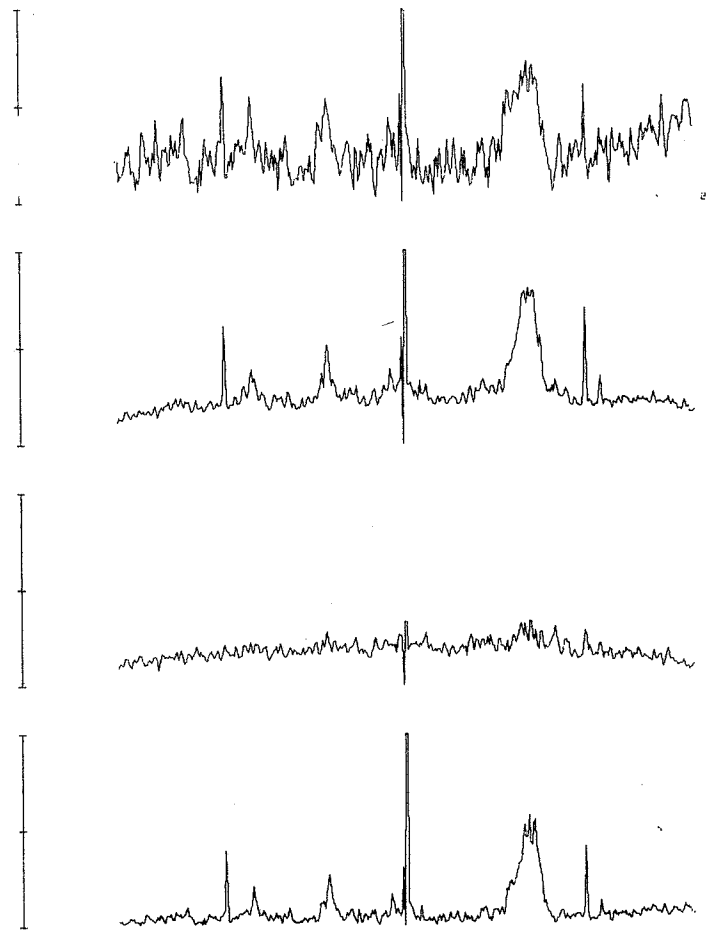
XRD-56/22



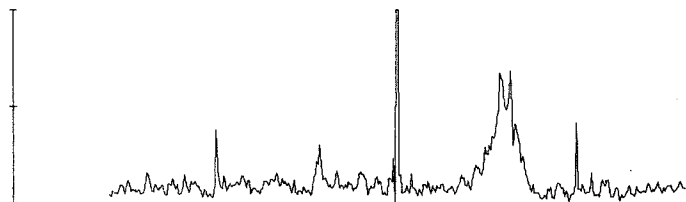
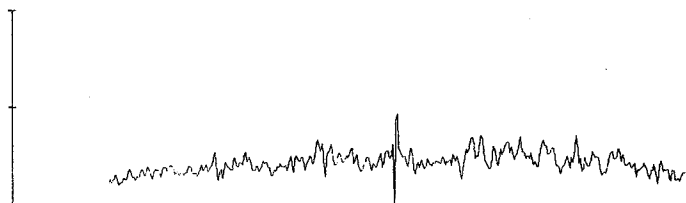
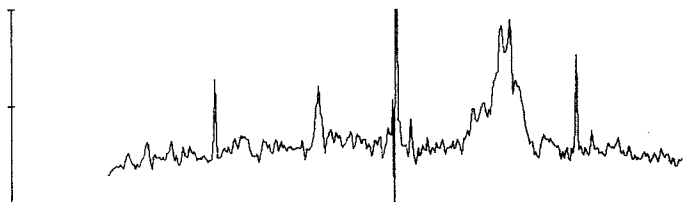
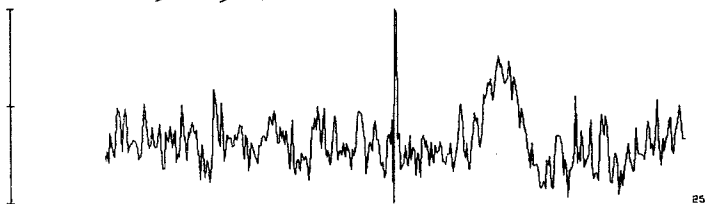
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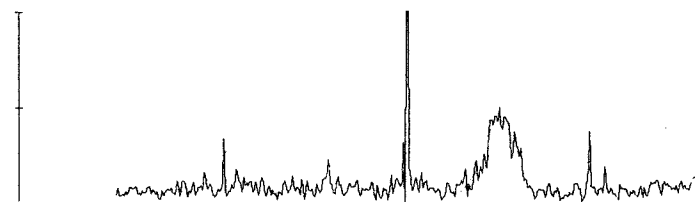
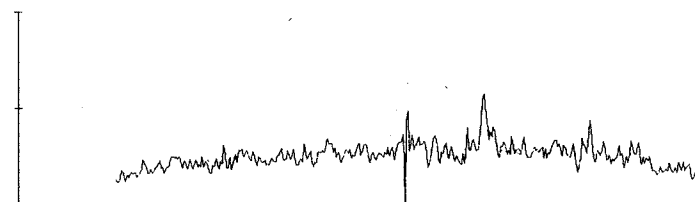
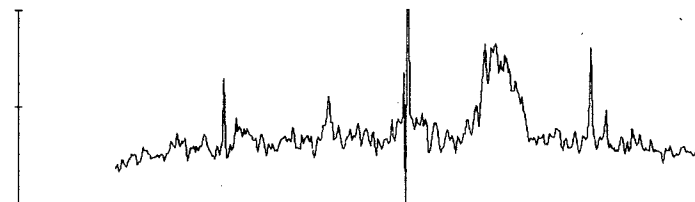
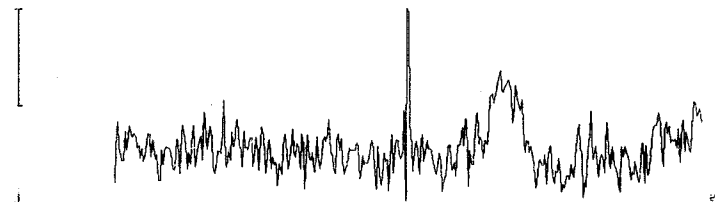
XRD-56/24



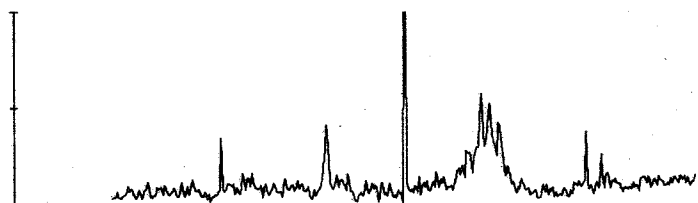
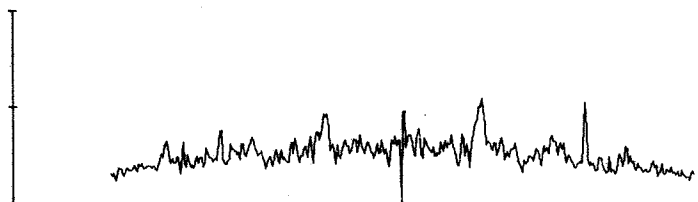
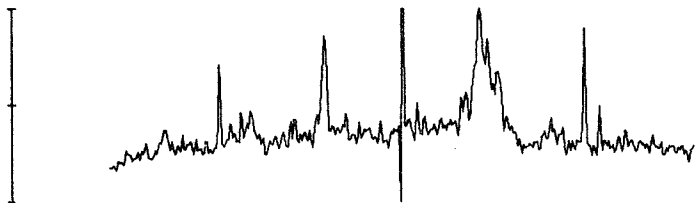
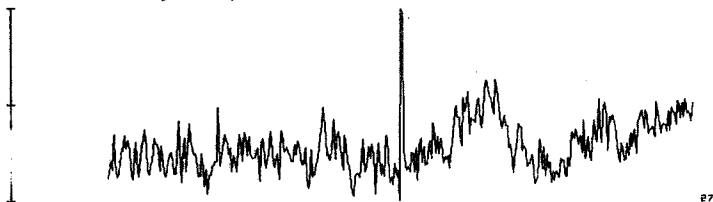
XRD-56/25



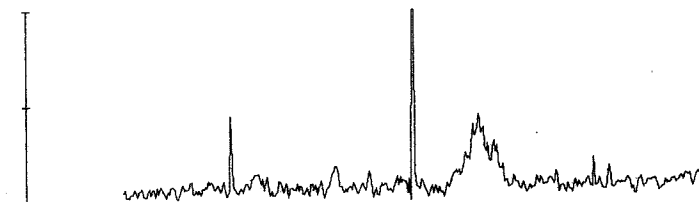
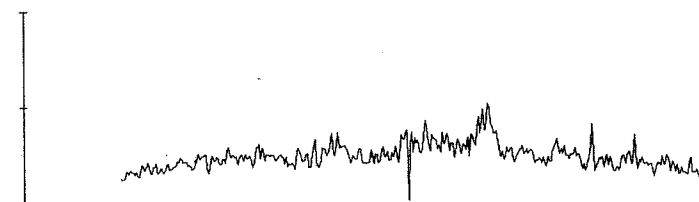
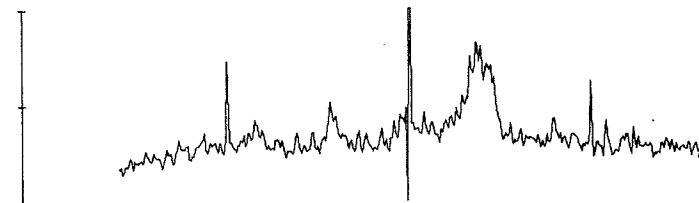
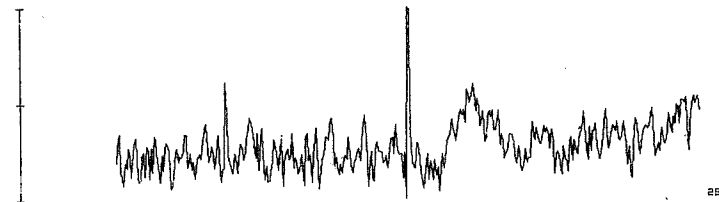
XRD-56/26



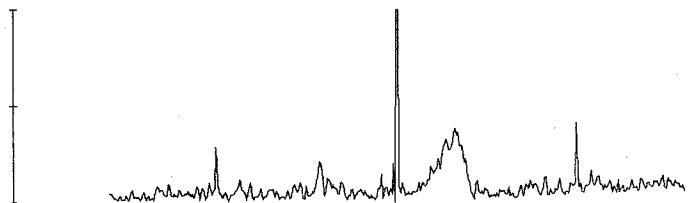
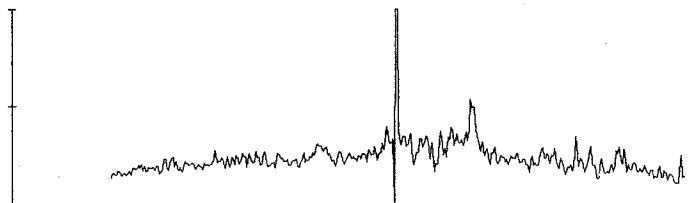
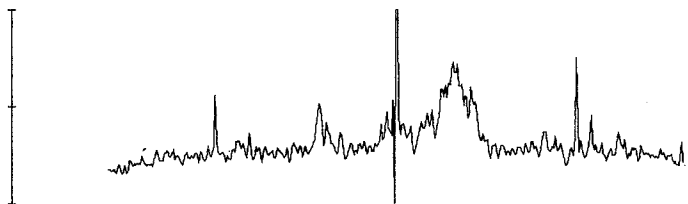
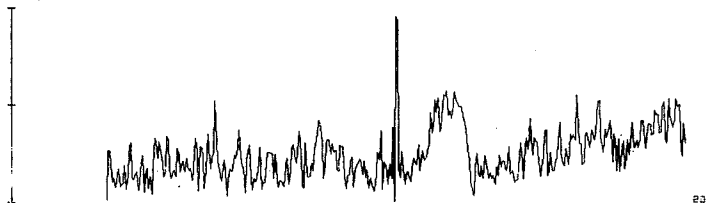
XRD-56/27



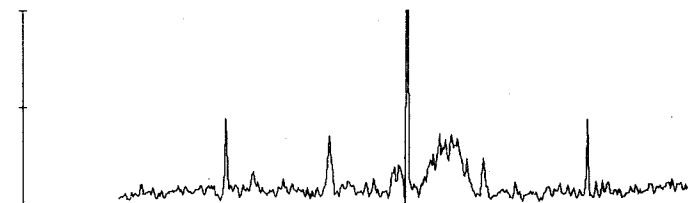
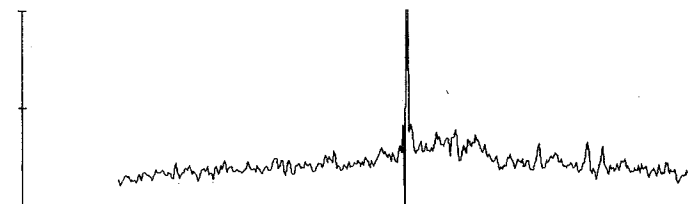
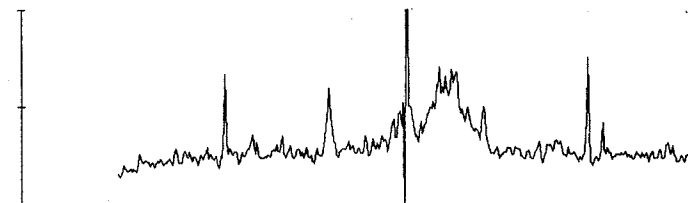
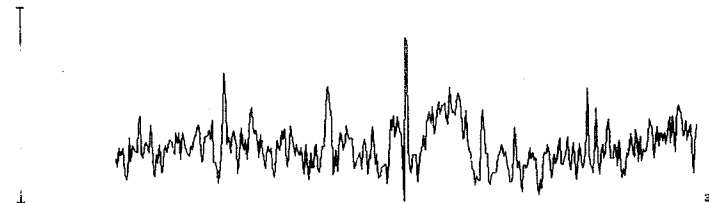
XRD-56/28



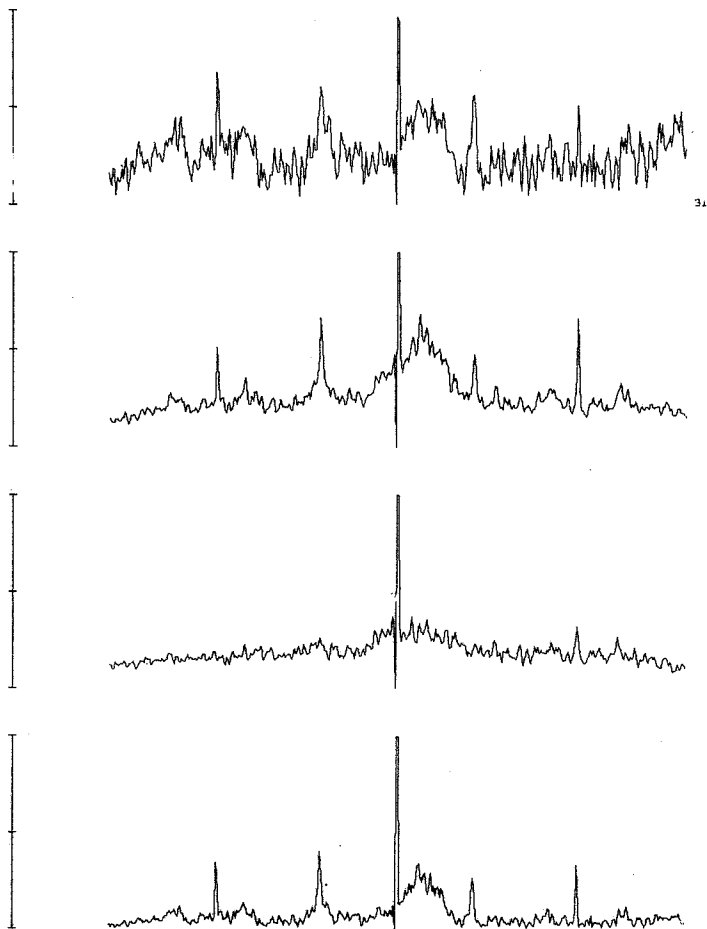
XRD-56/29



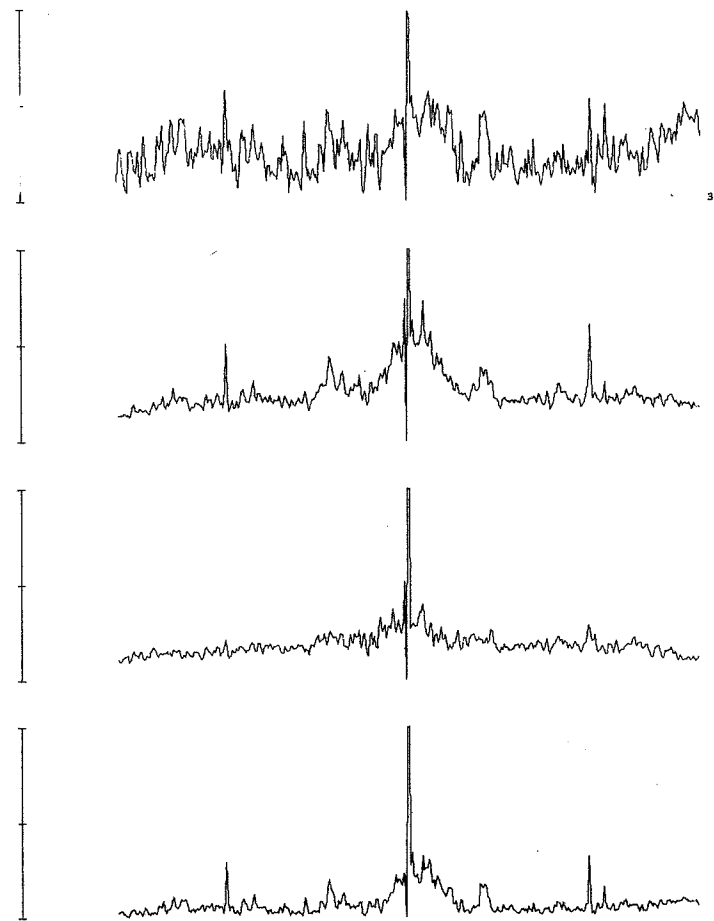
XRD-56/30



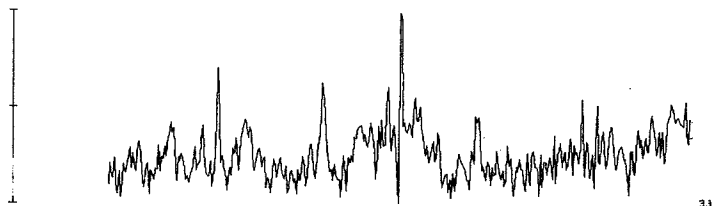
XRD-56/31



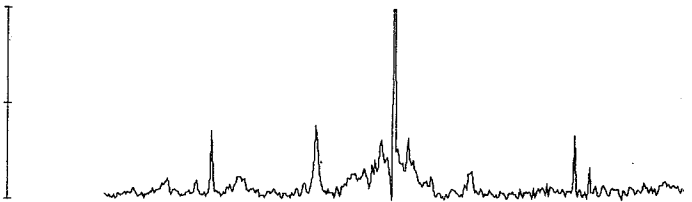
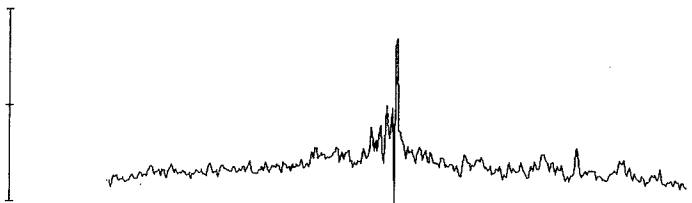
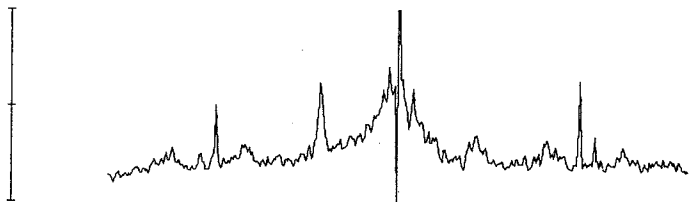
XRD-56/32



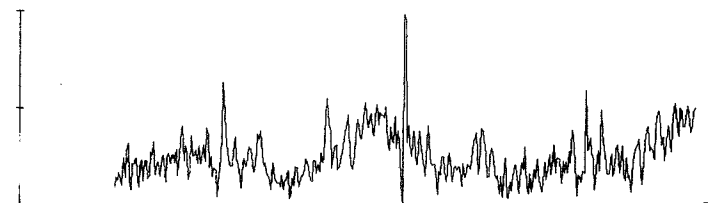
XRD-56/33



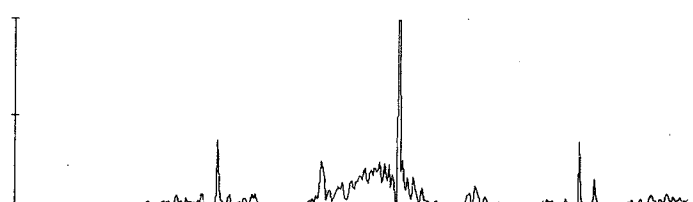
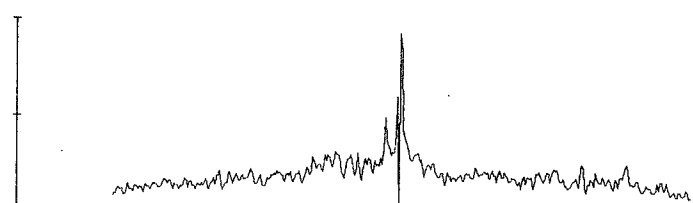
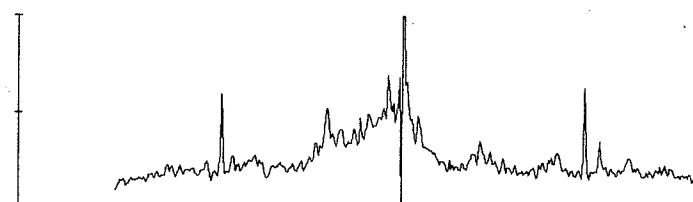
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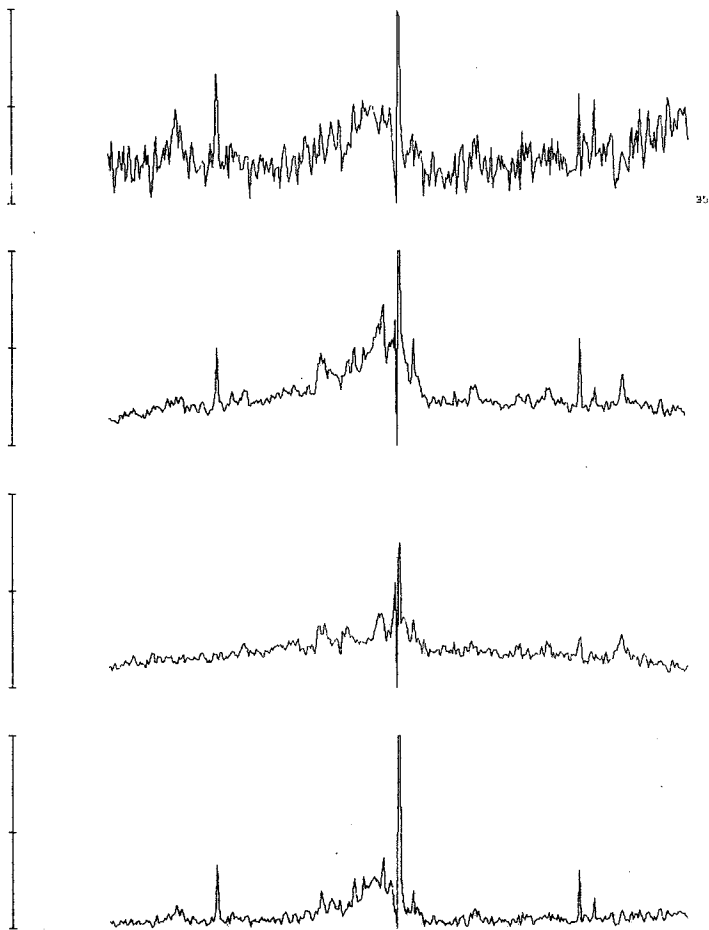
XRD-56/34



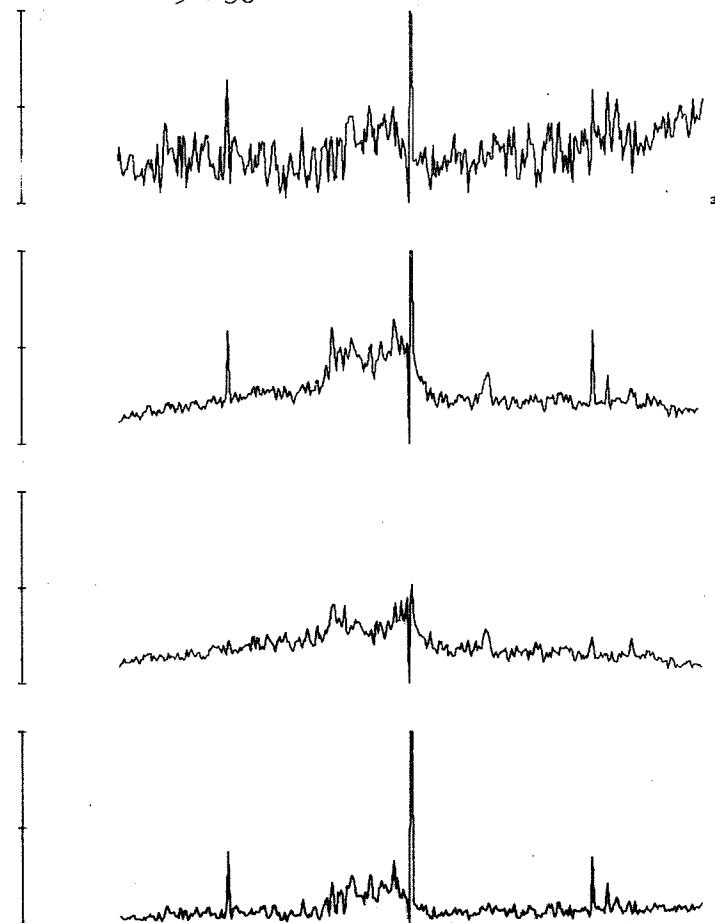
34



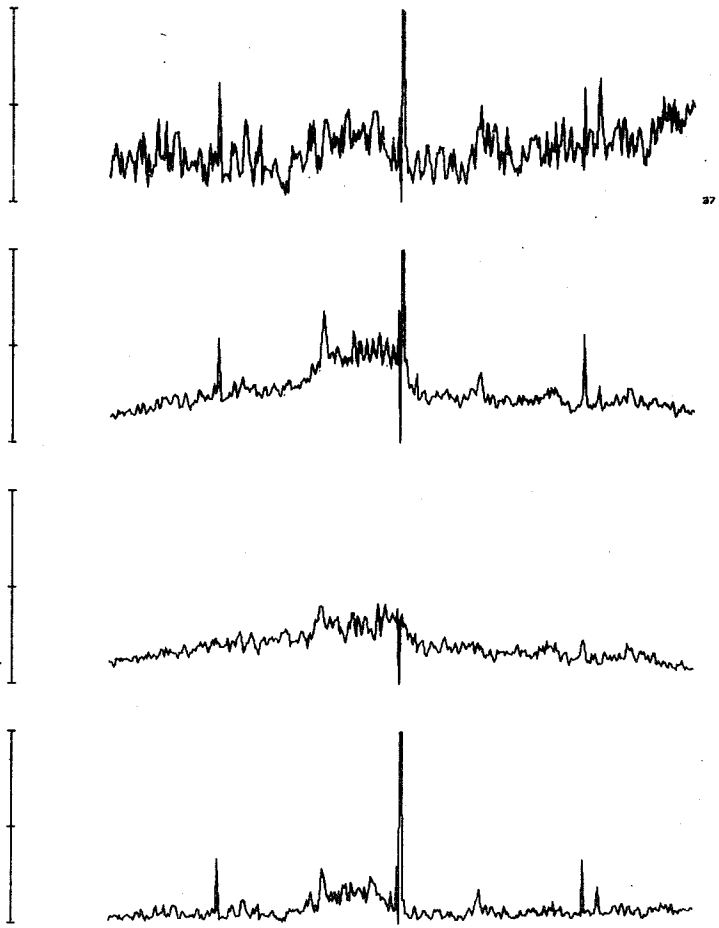
XRD-56/35



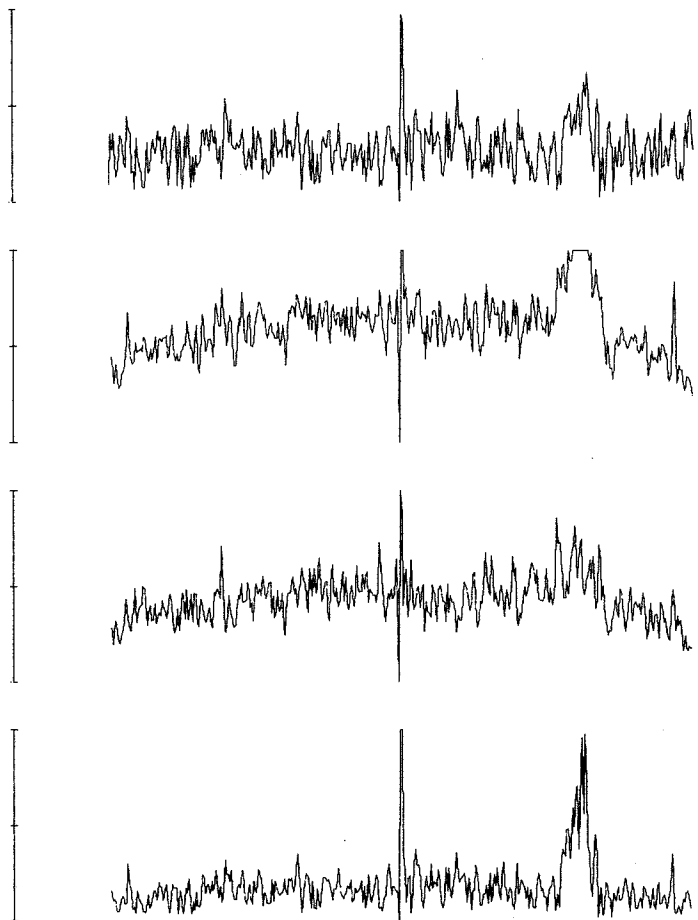
XRD-56/36



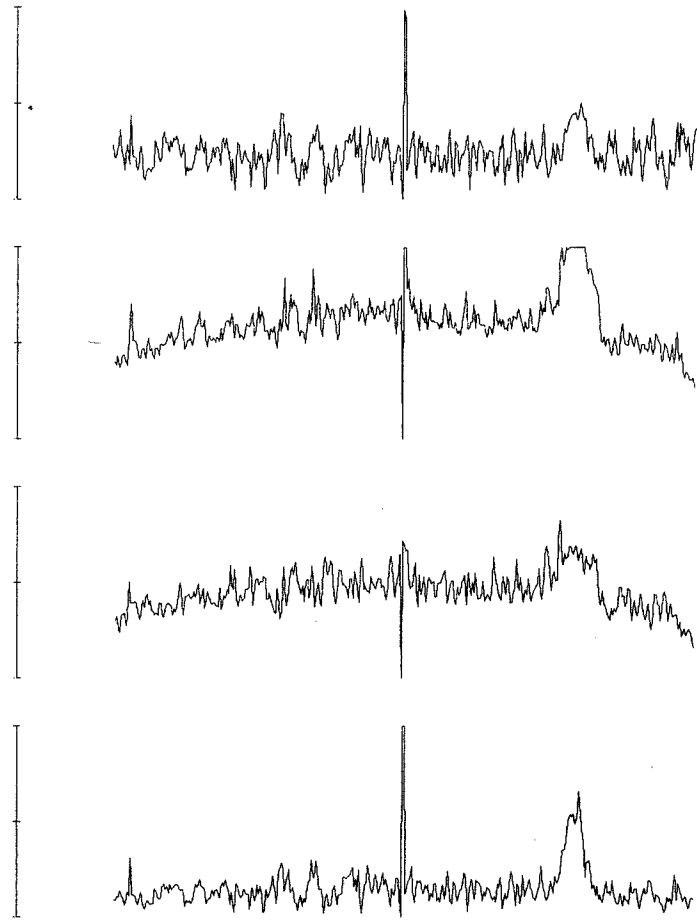
XRD-56/37



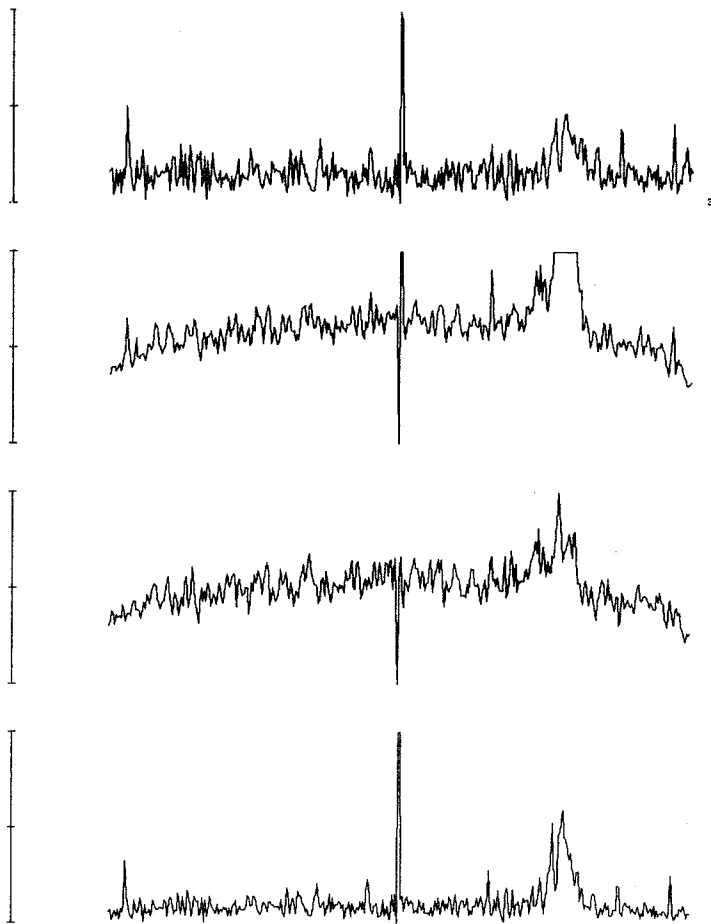
XRD-58/1



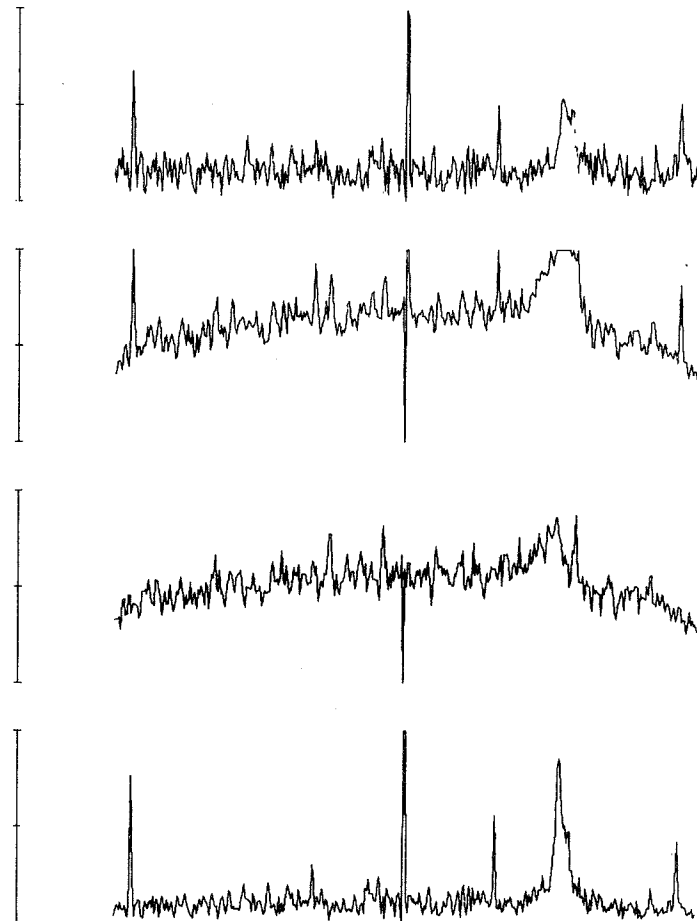
XRD-58/2



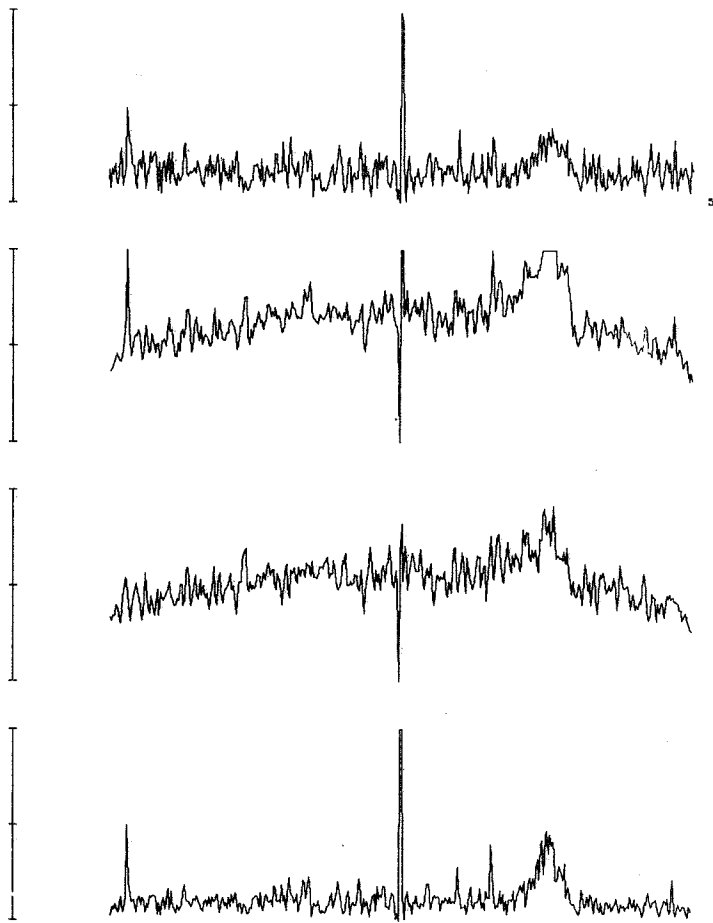
XRD-58/3



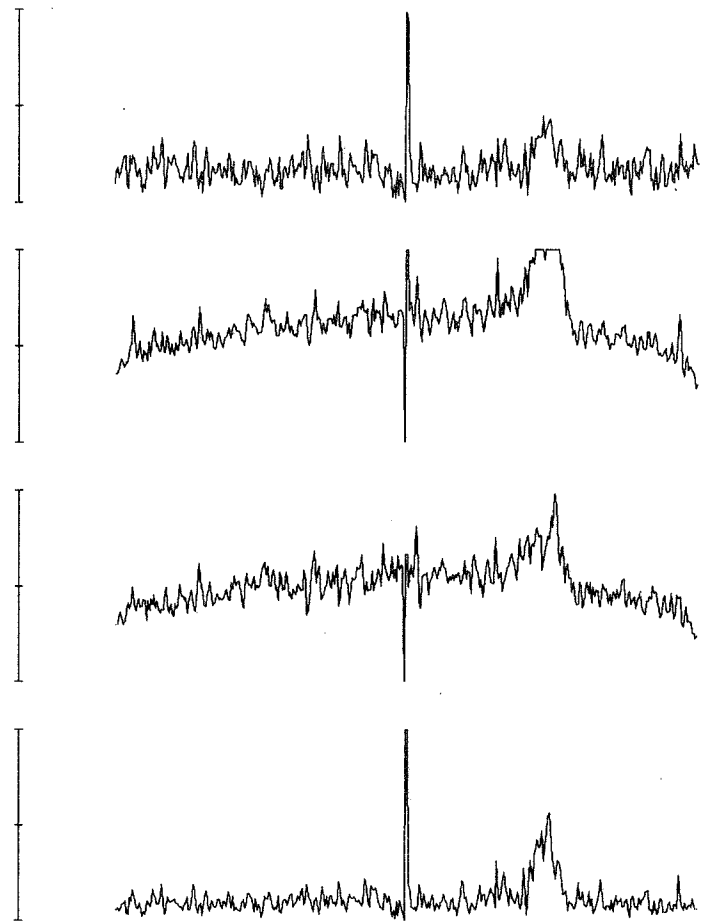
XRD-58/4



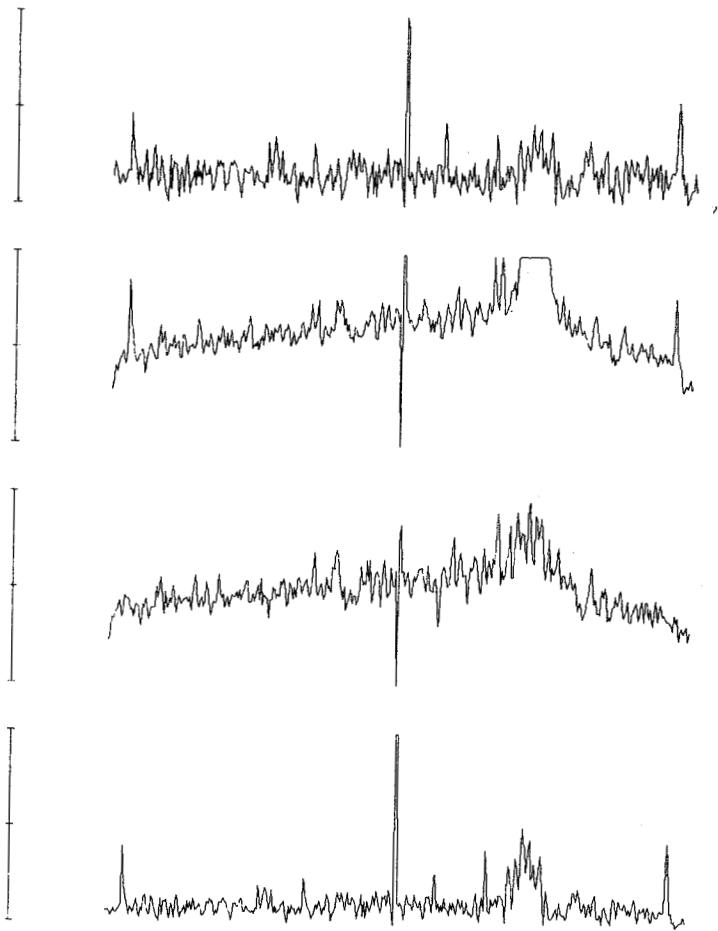
XRD-58/5



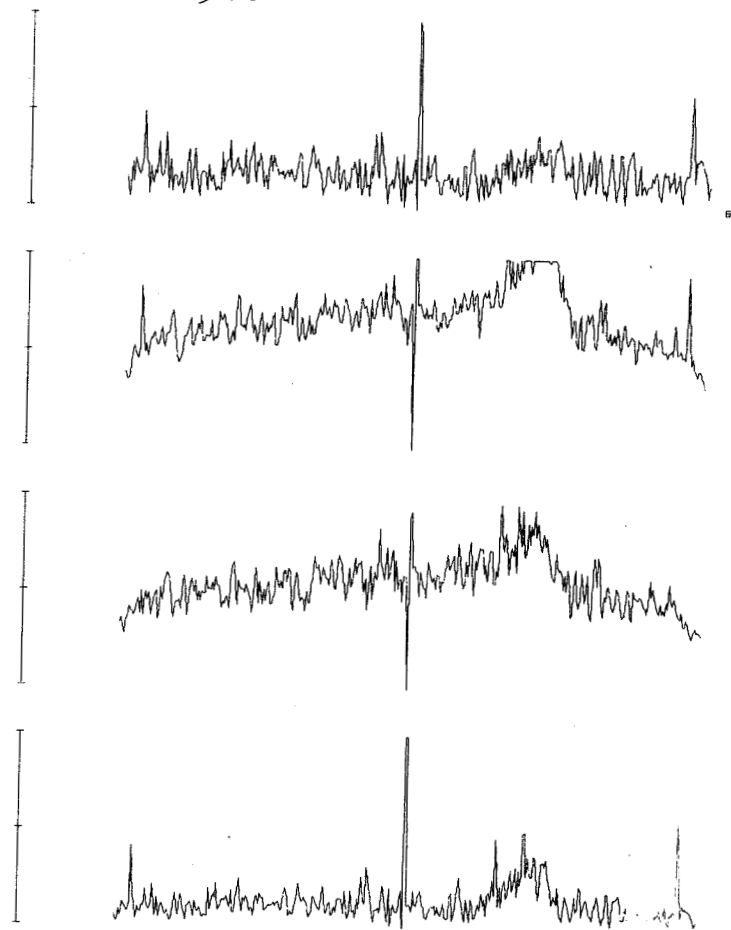
XRD-58/6



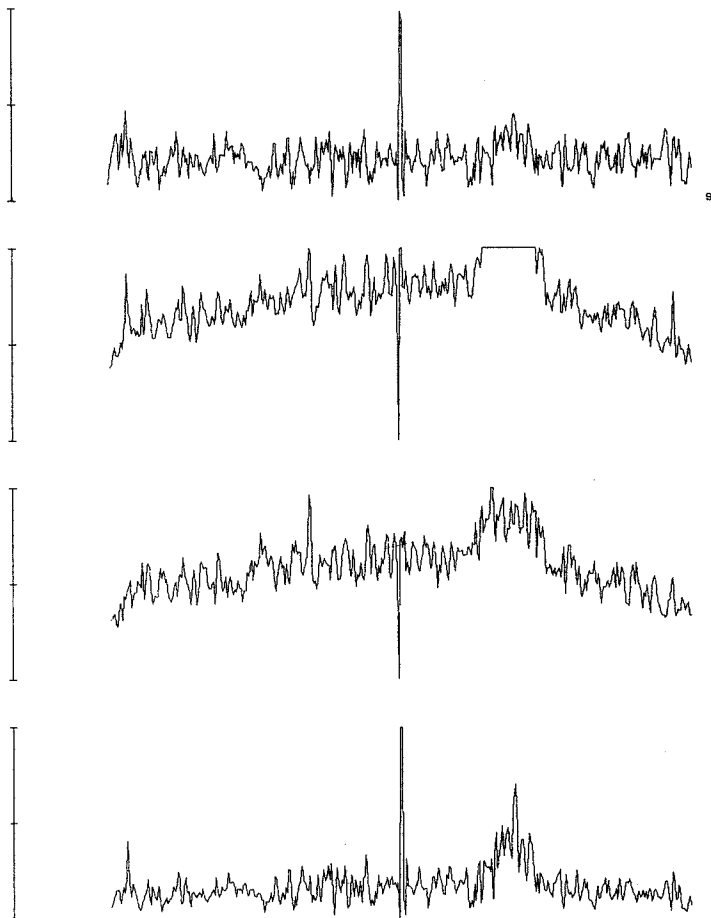
XRD-58/7



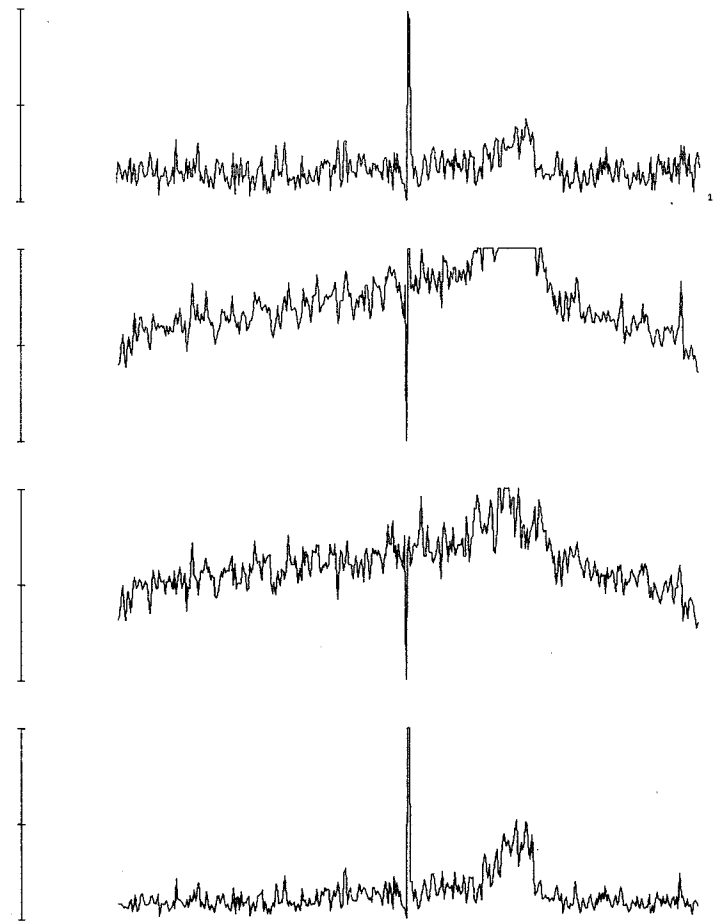
XRD-58/8



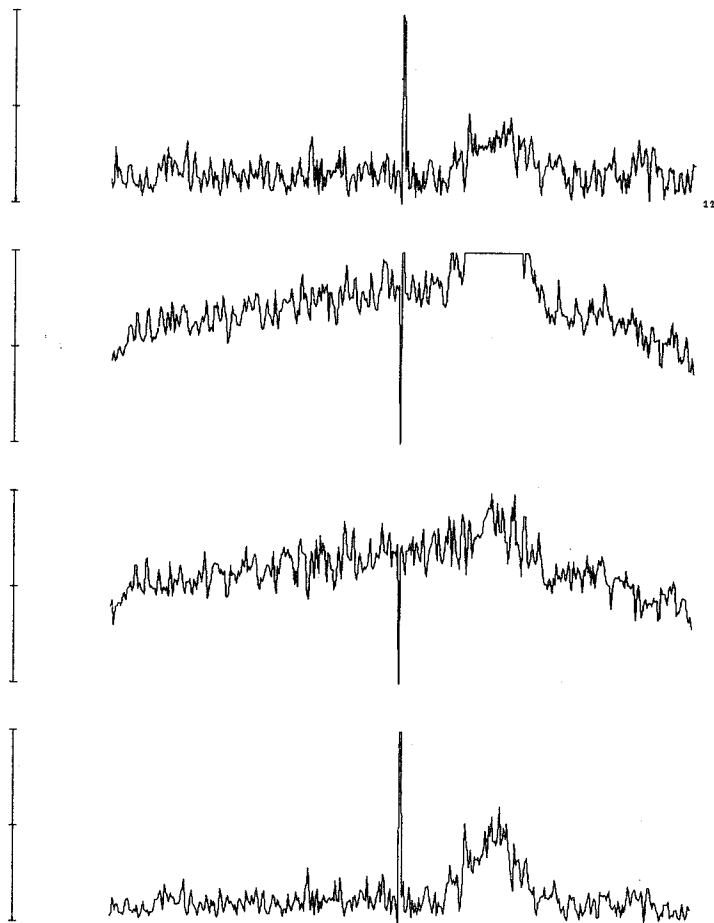
XRD-58/9



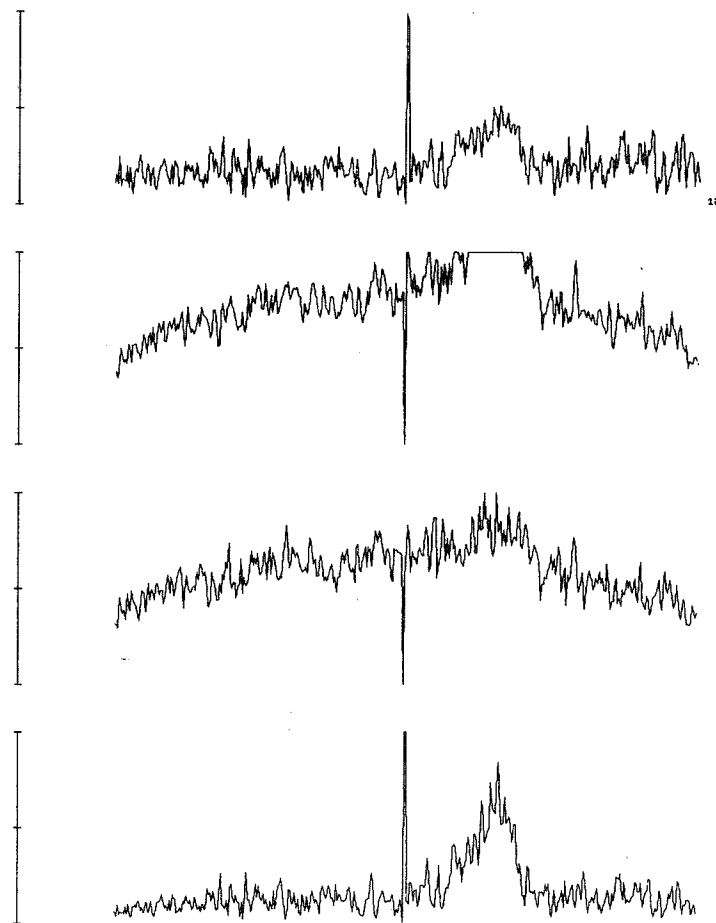
XRD-58/10



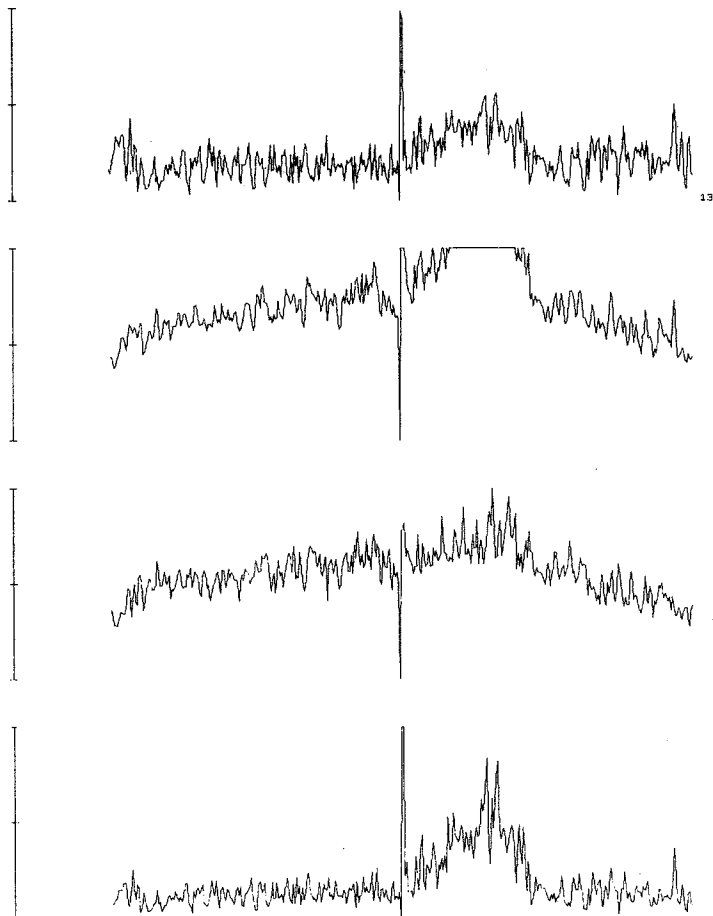
XRD-58/11



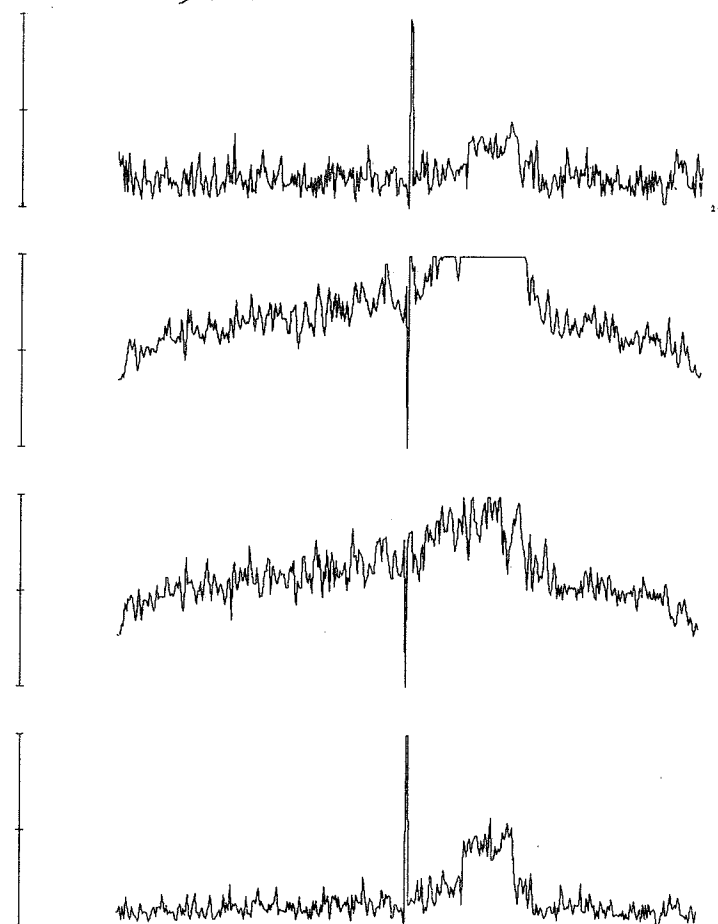
XRD-58/12



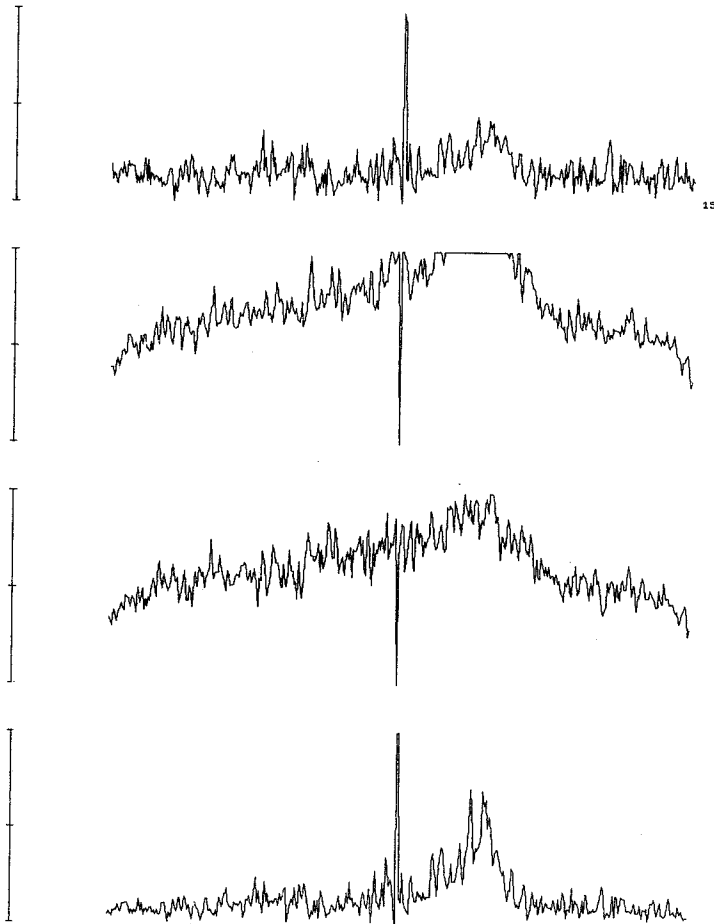
XRD-58/13



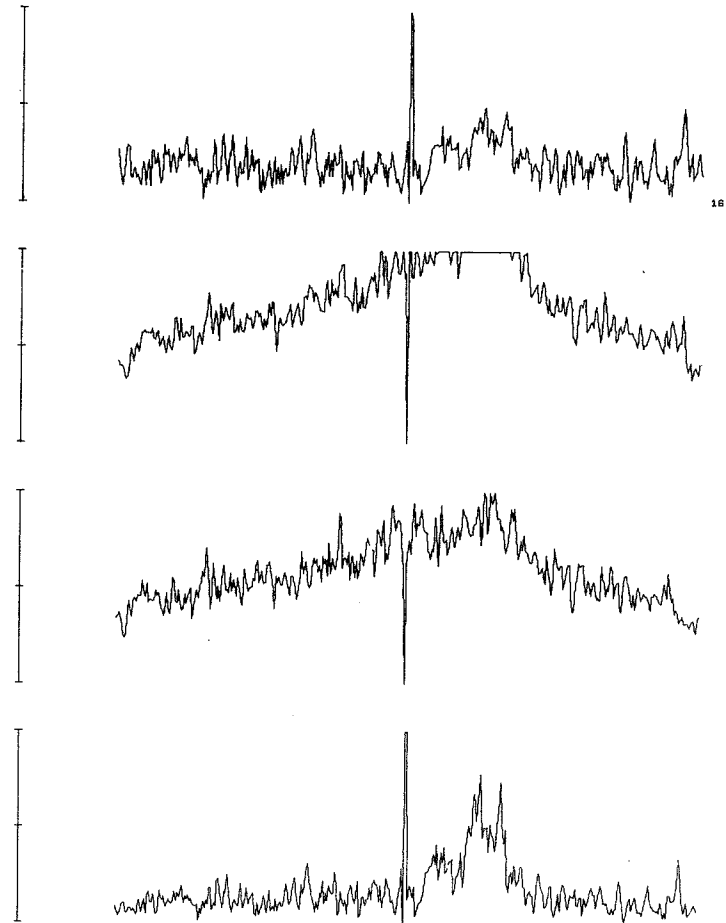
XRD-58/14



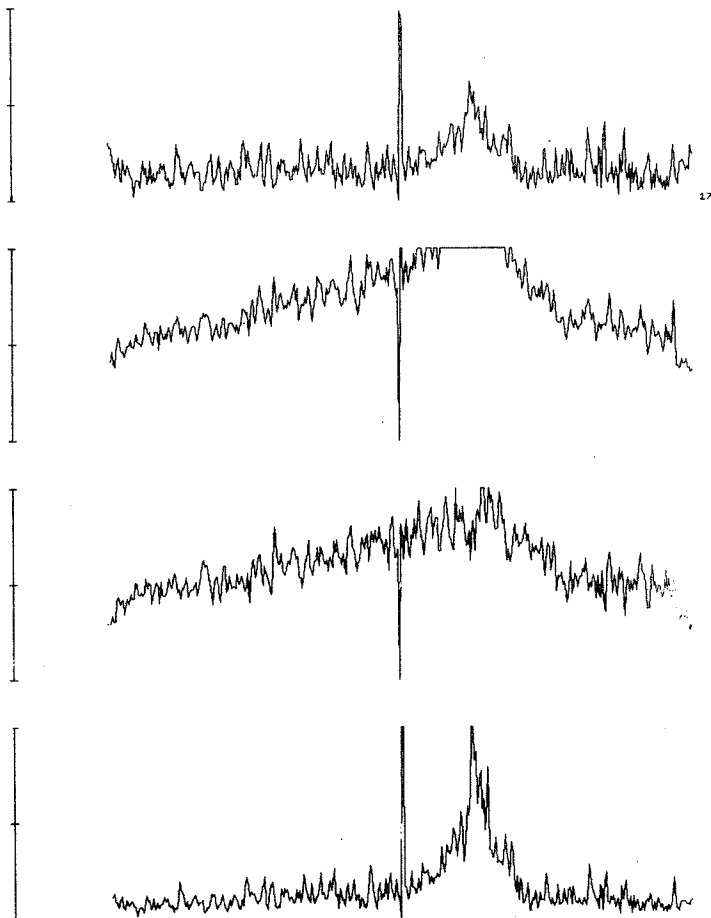
XRD-58/15



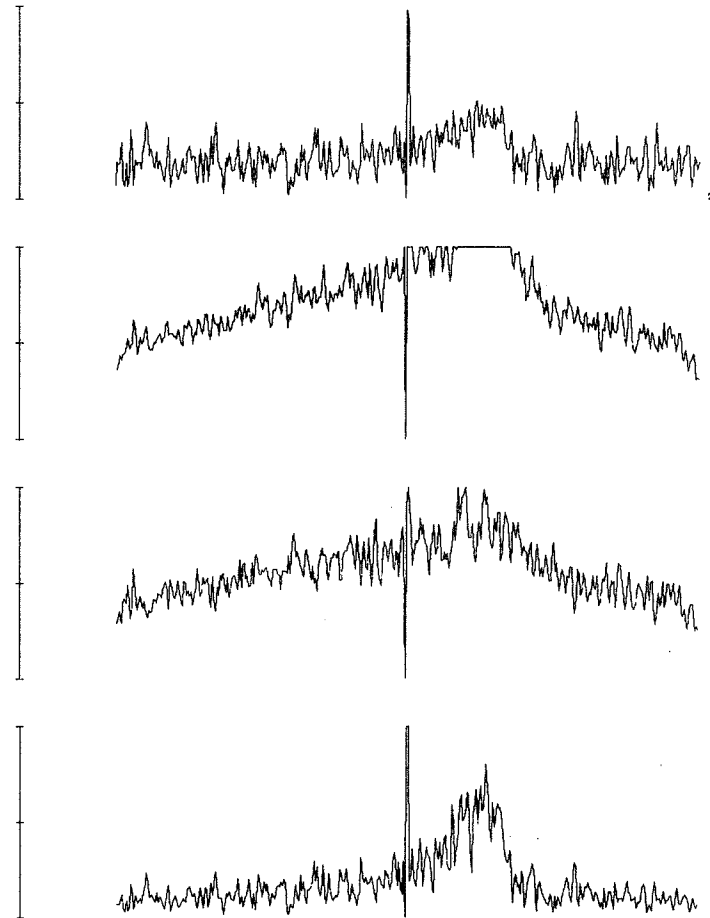
XRD-58/16



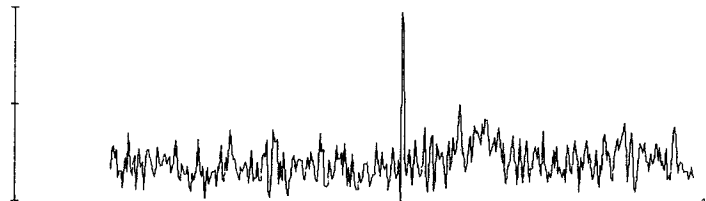
XRD-58/17



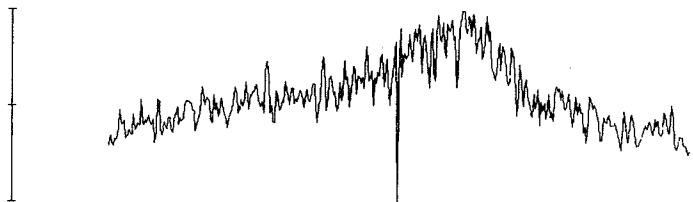
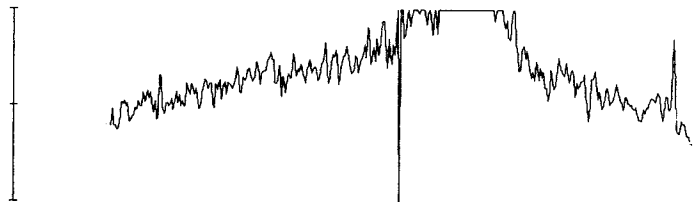
XRD-58/18



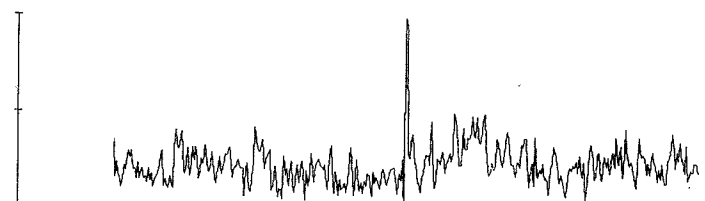
XRD-58/19



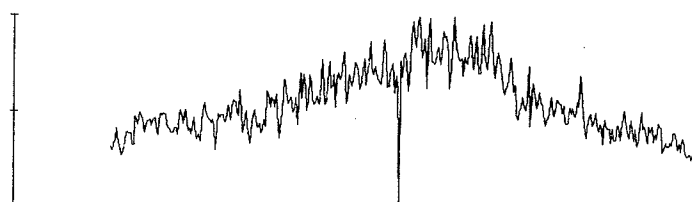
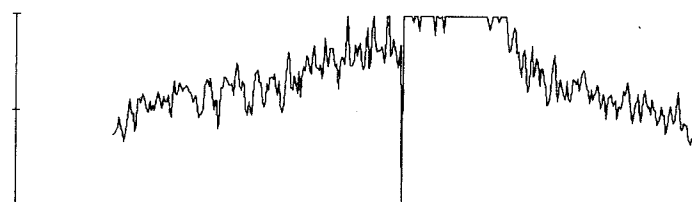
19



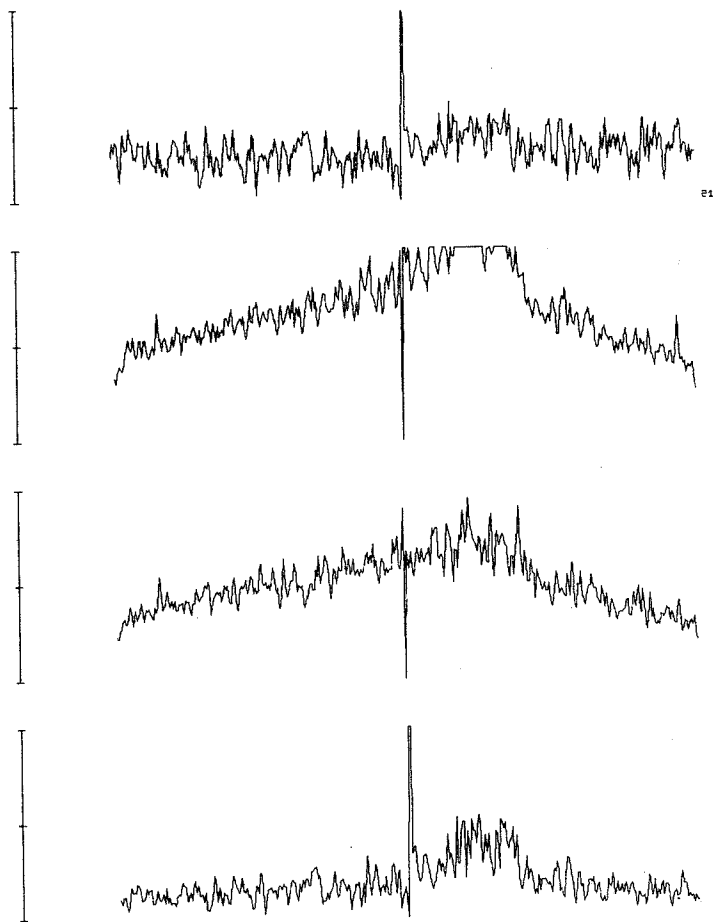
XRD-58/20



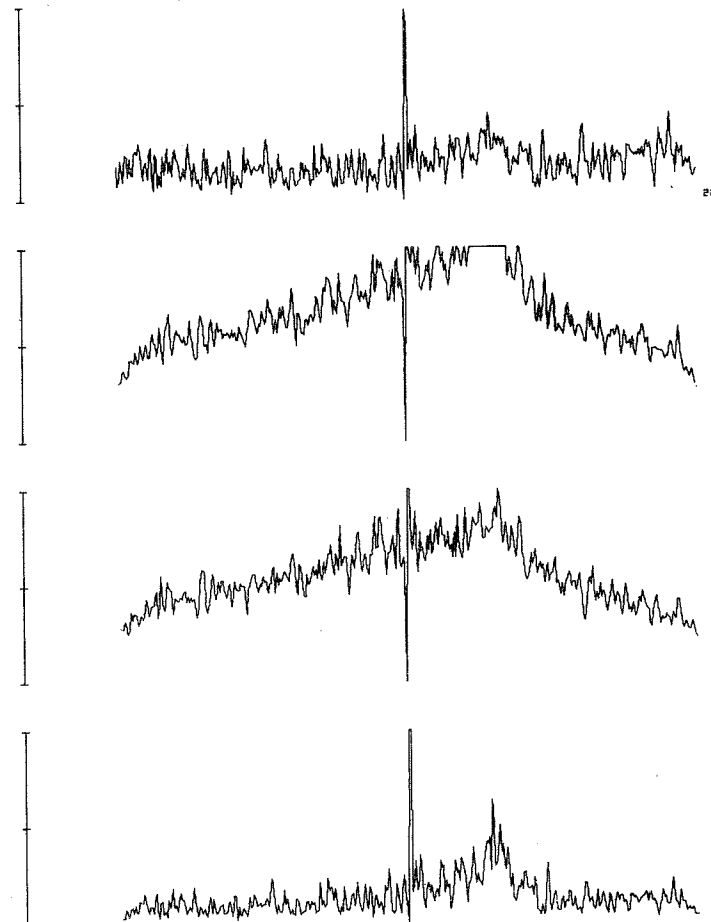
20



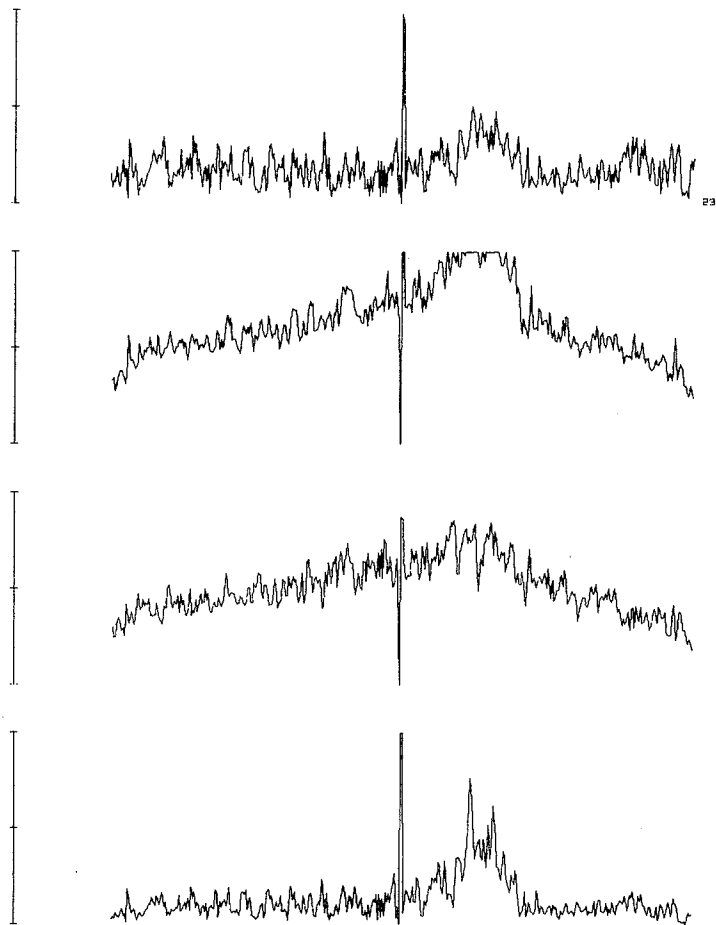
XRD-58/21



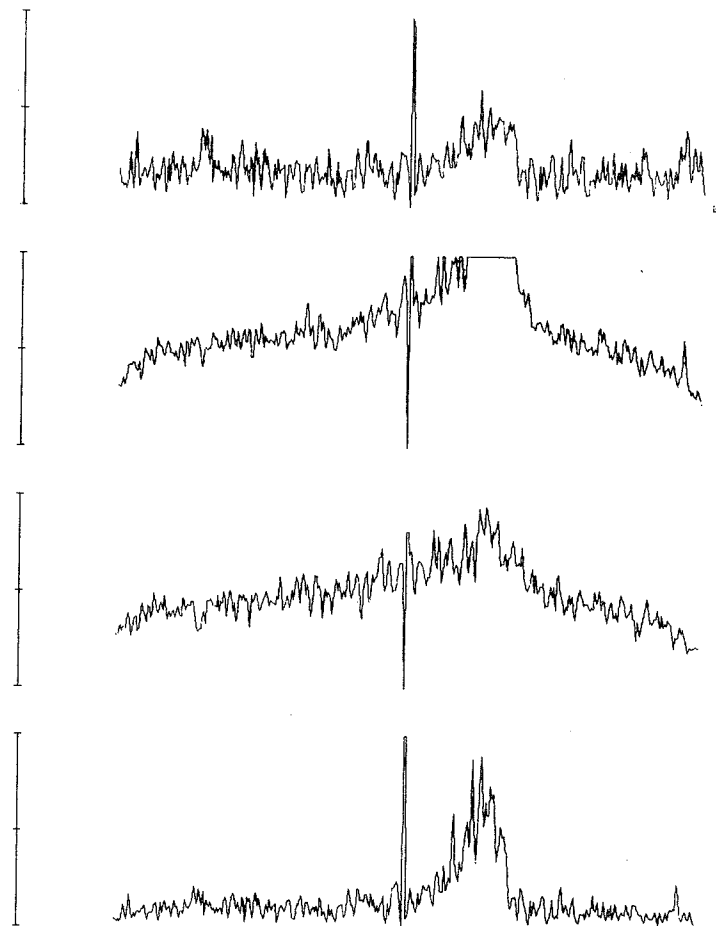
XRD-58/22



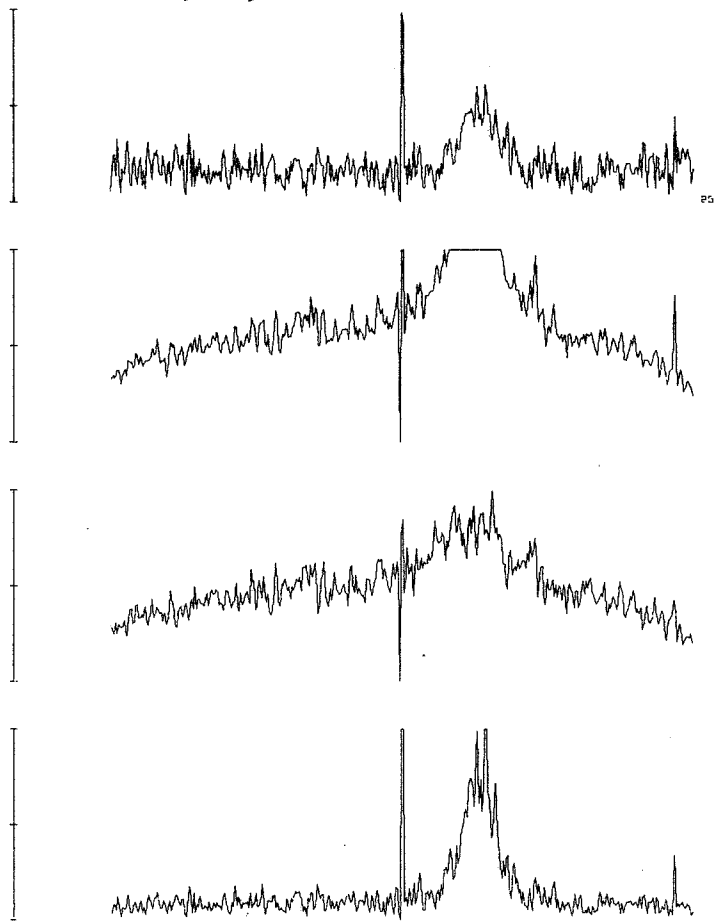
XRD-58/23



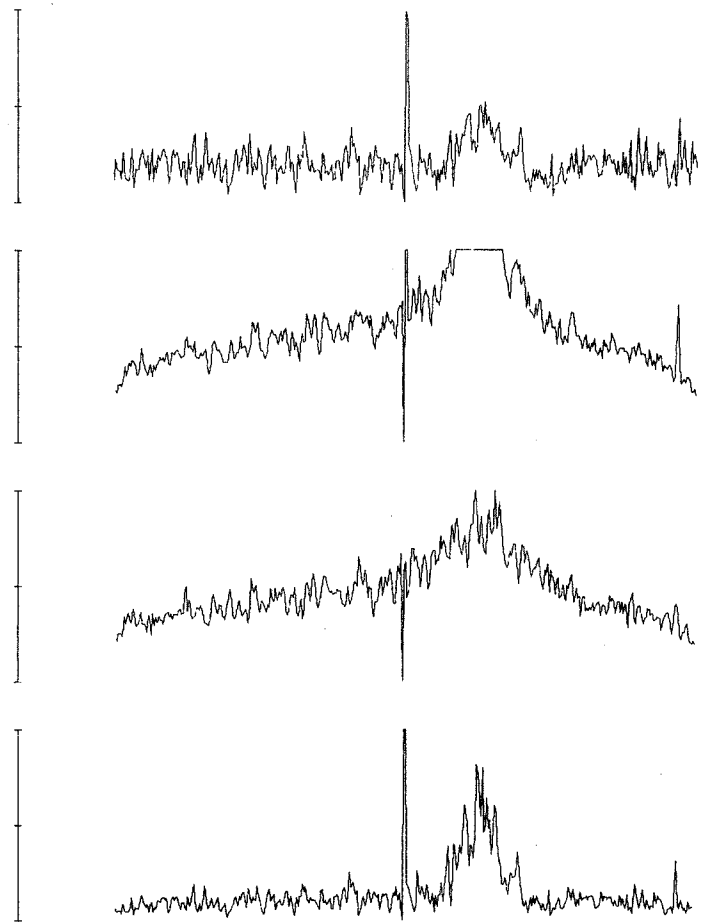
XRD-58/24



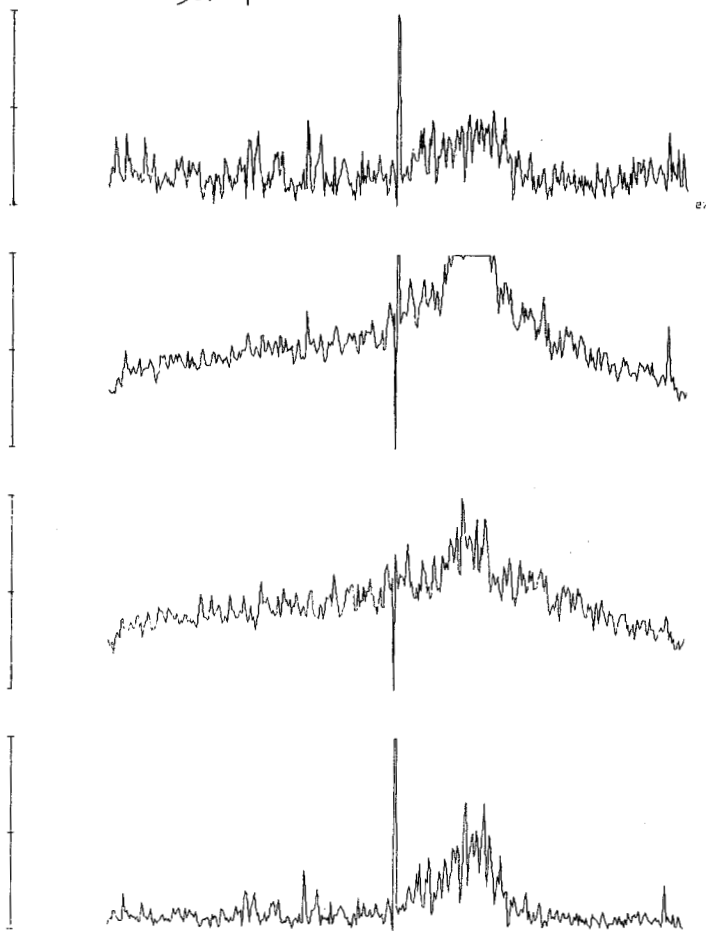
XRD-58/25



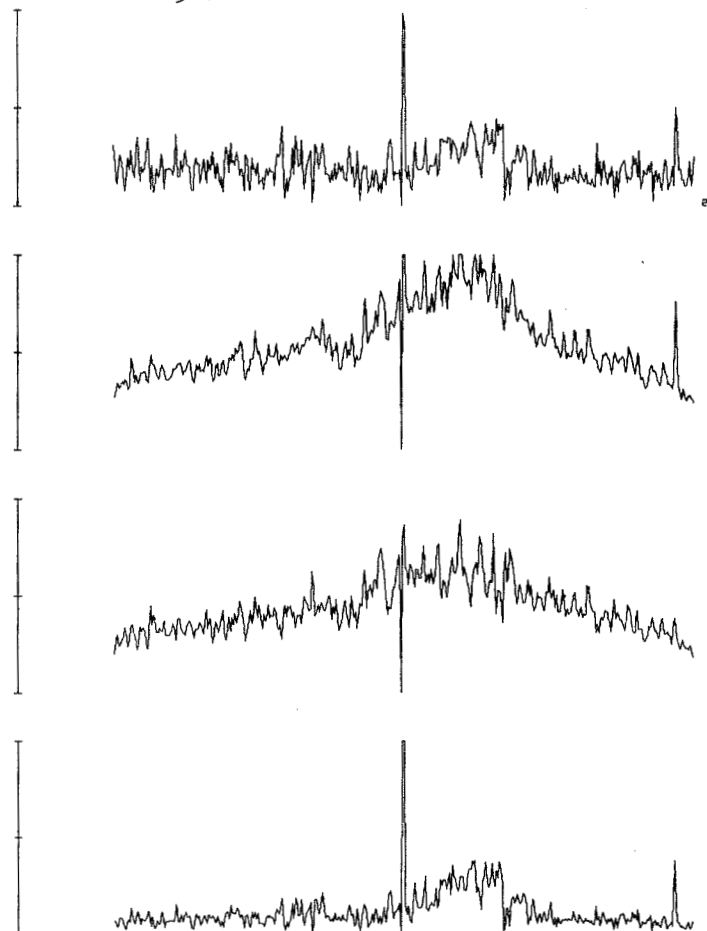
XRD-58/26



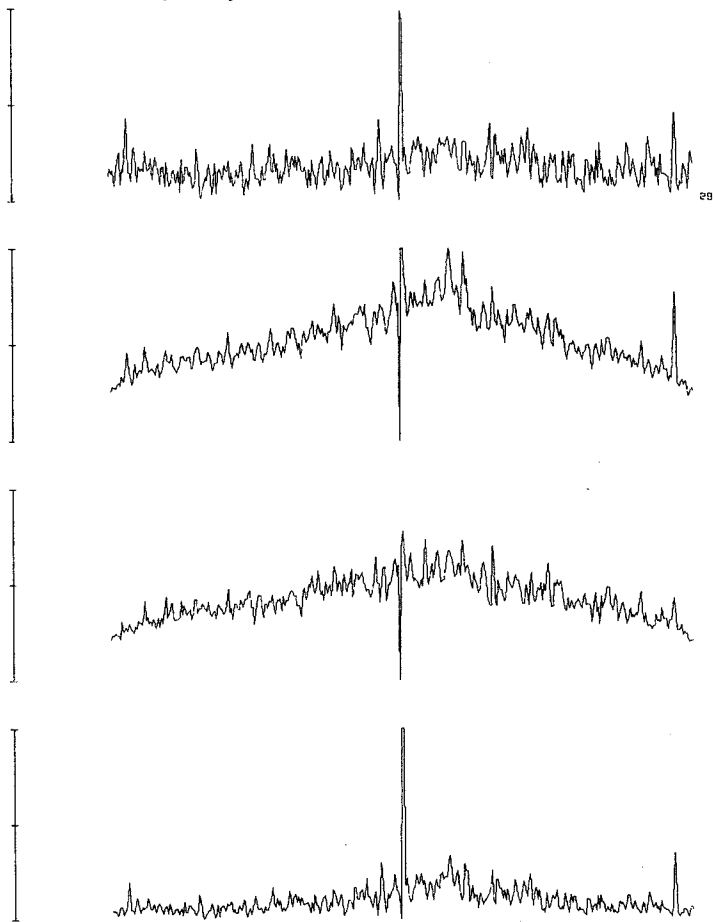
XRD-58/27



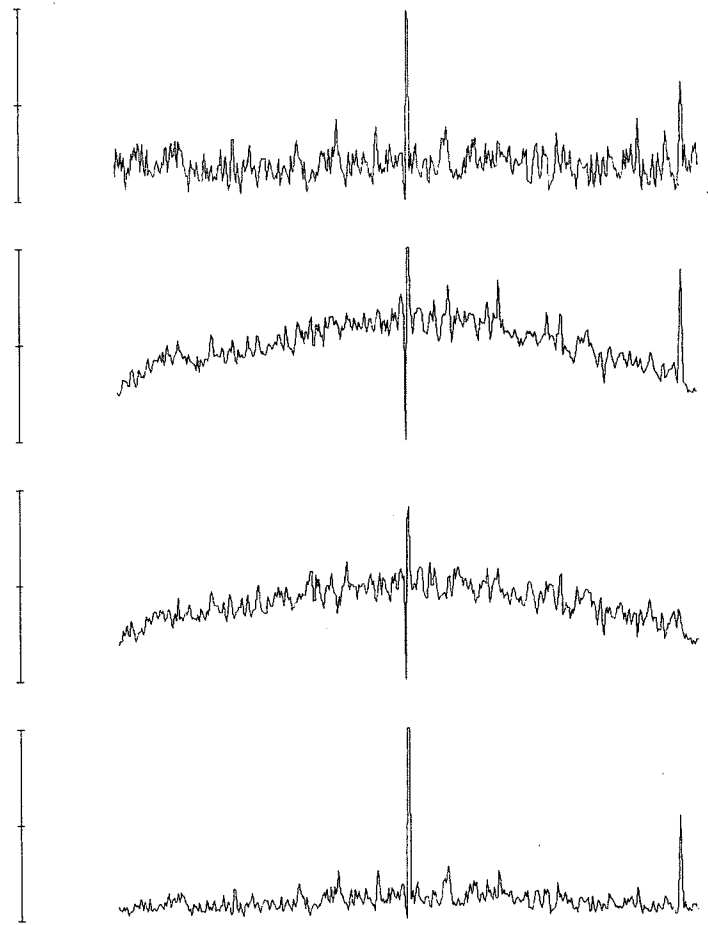
XRD-58/28



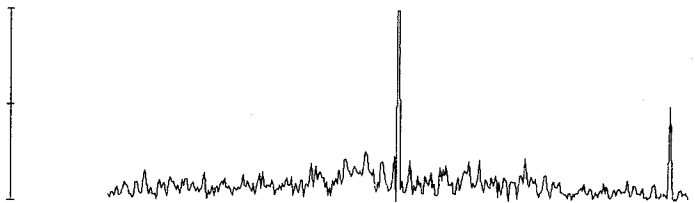
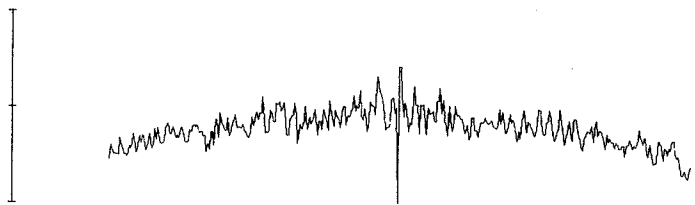
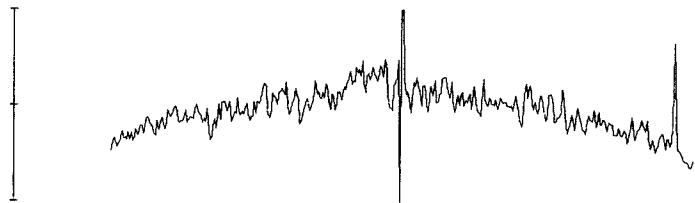
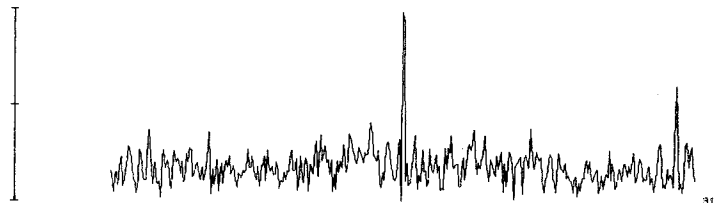
XRD-58/29



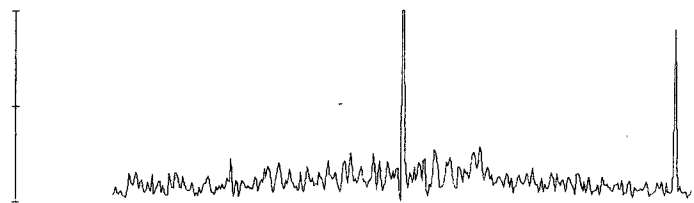
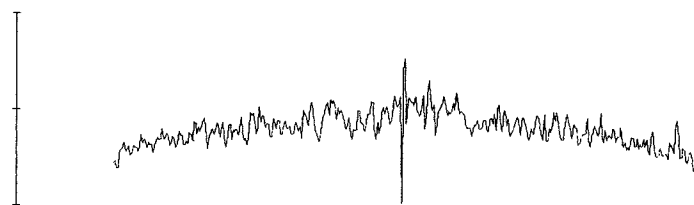
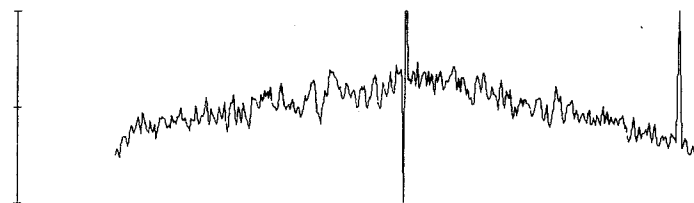
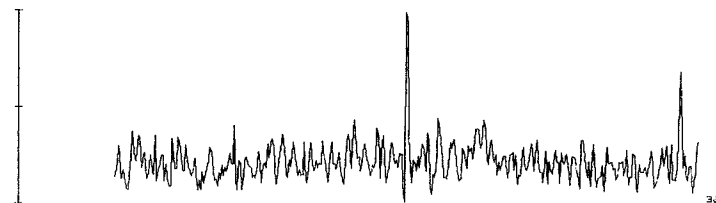
XRD-58/30



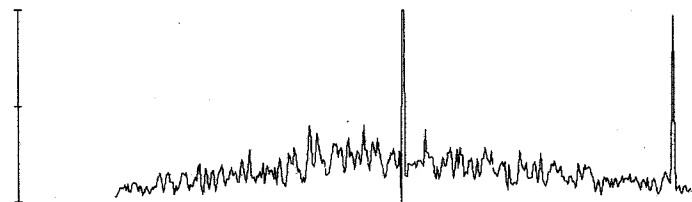
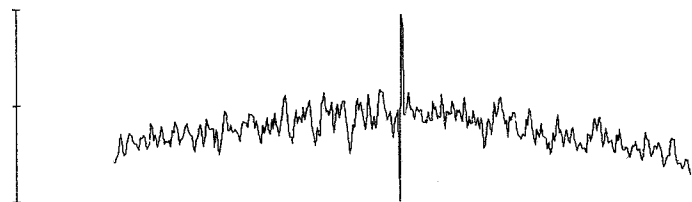
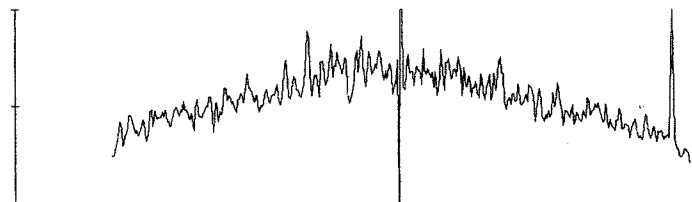
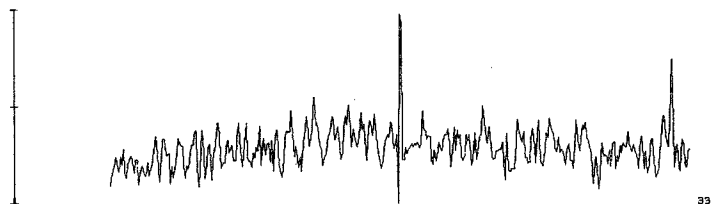
XRD-58/31



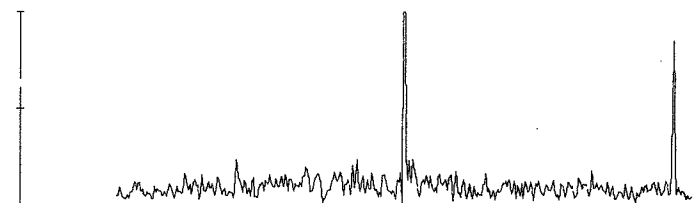
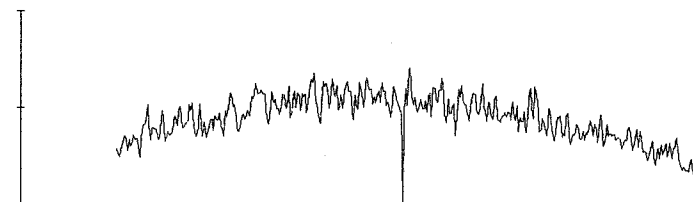
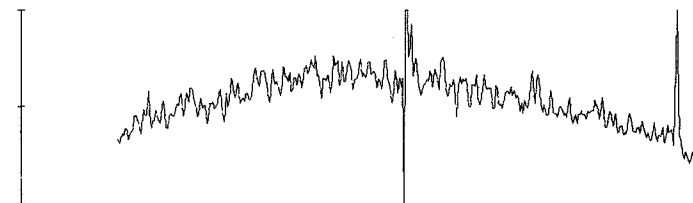
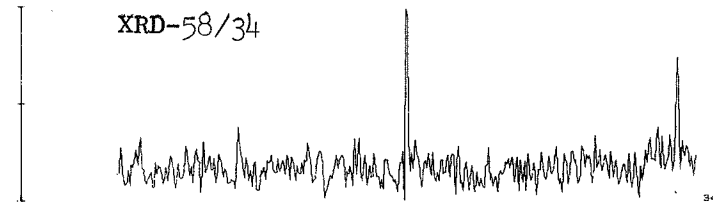
XRD-58/32



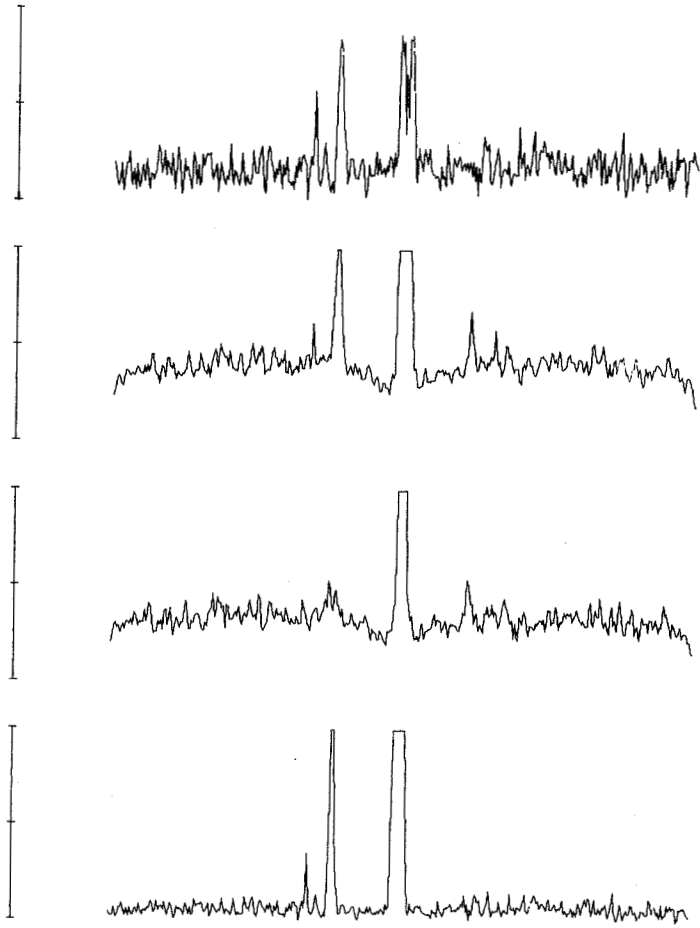
XRD-58/33



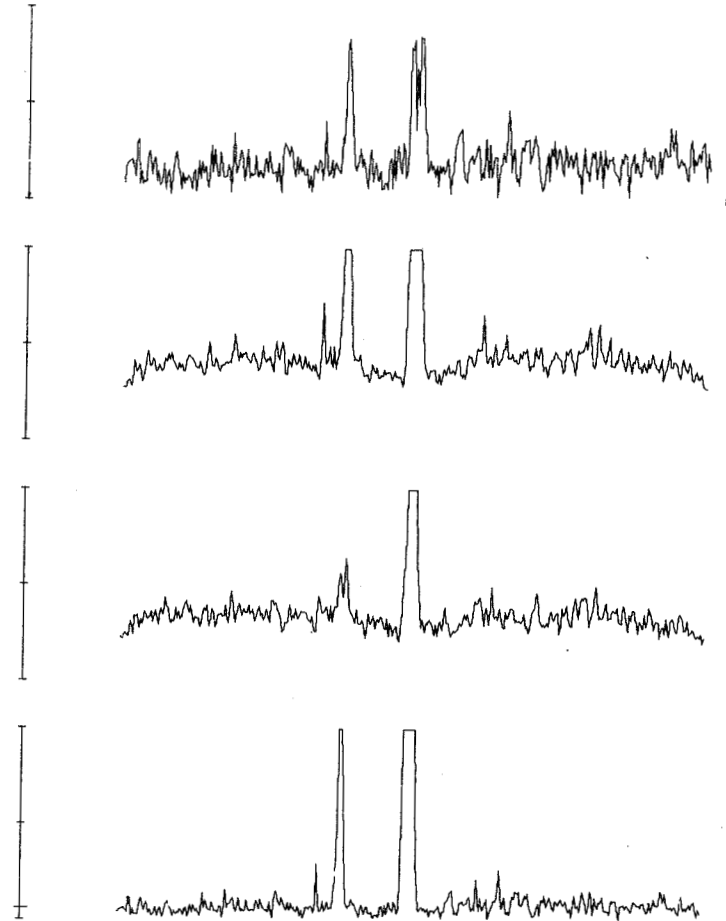
XRD-58/34



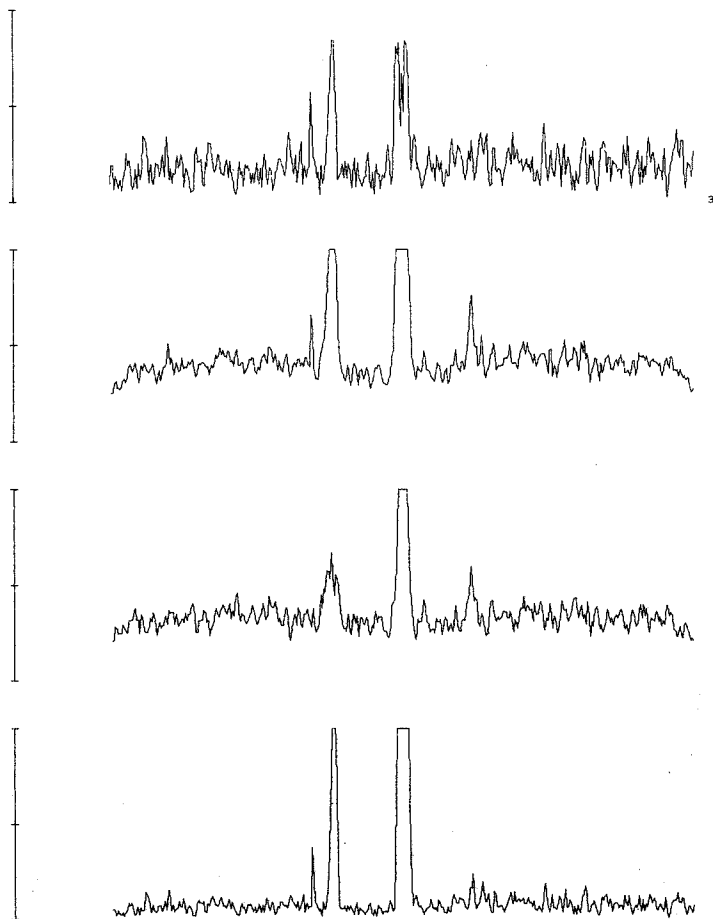
XRD-61/1



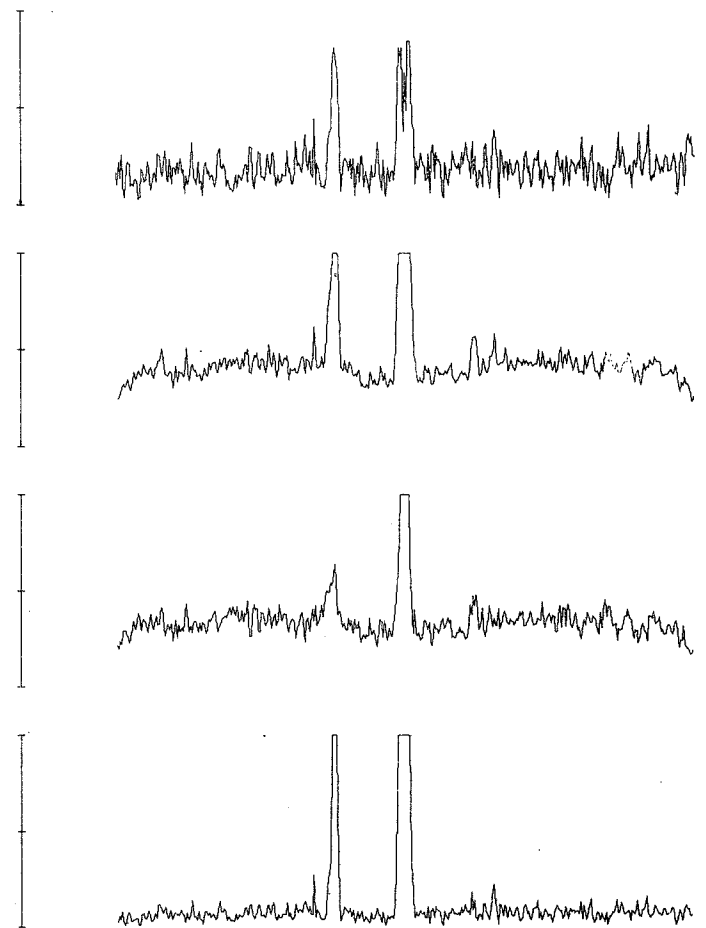
XRD-61/2



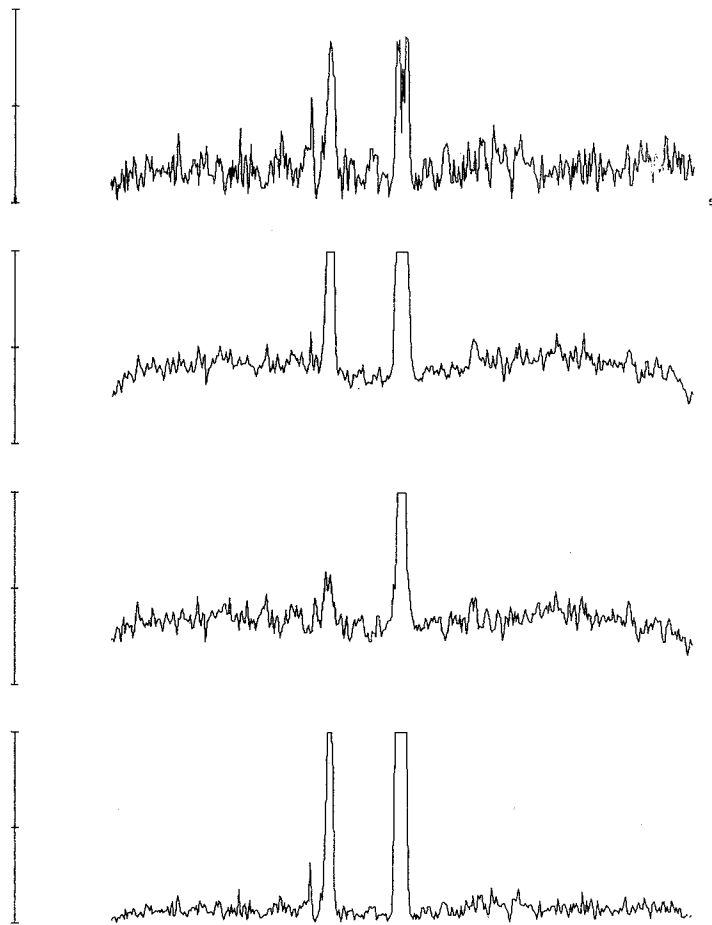
XRD-61/3



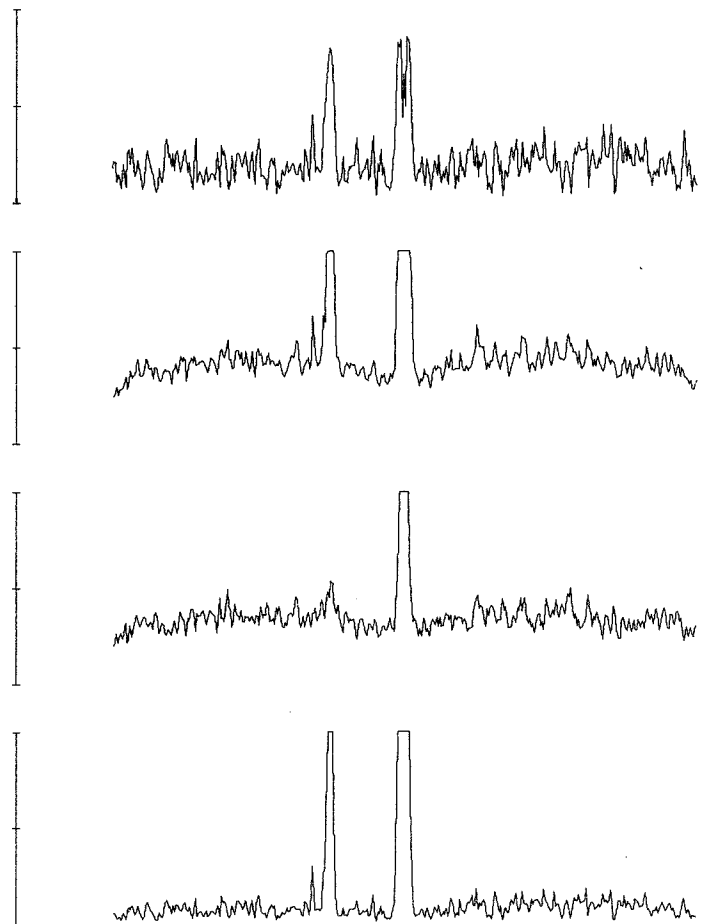
XRD-61/4



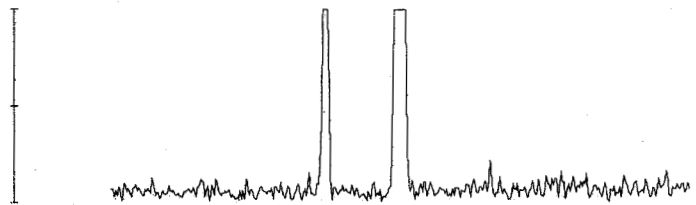
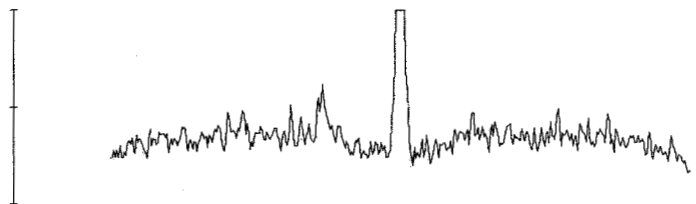
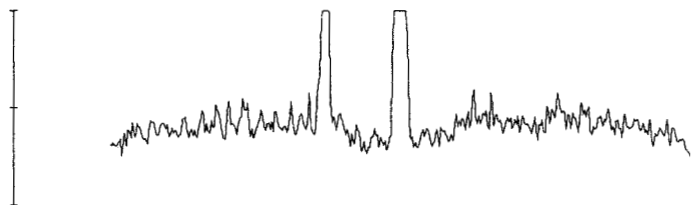
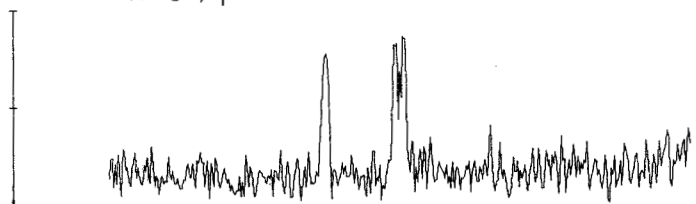
XRD-61/5



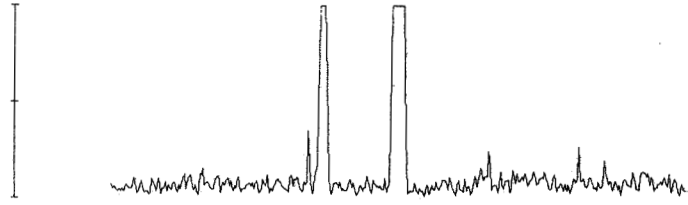
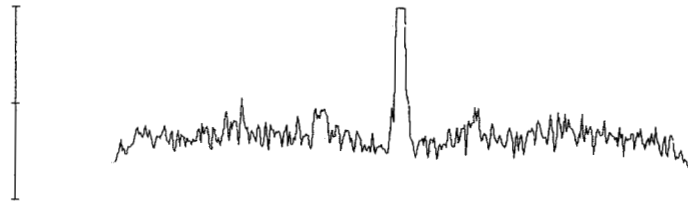
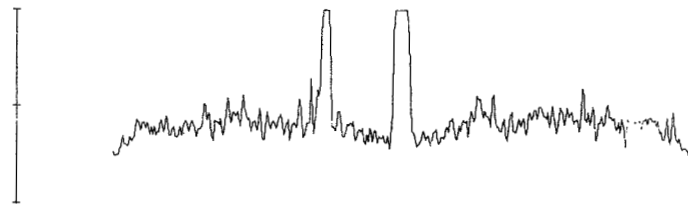
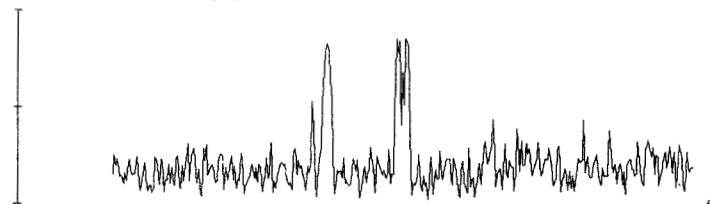
XRD-61/6



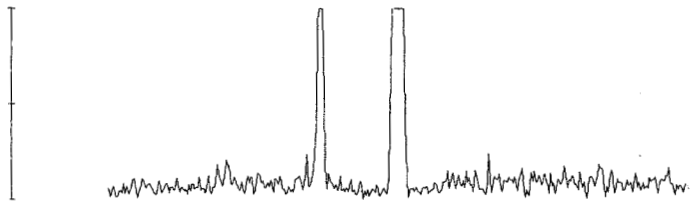
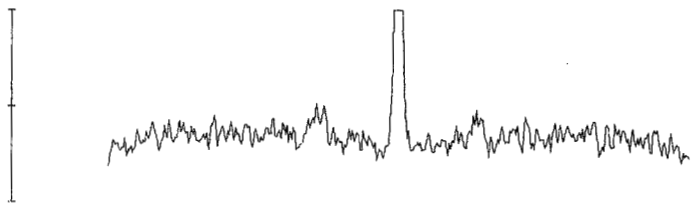
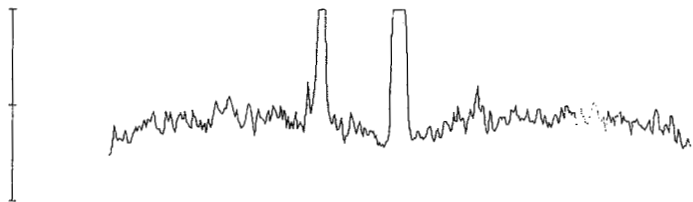
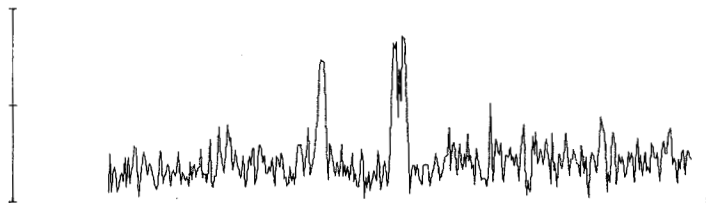
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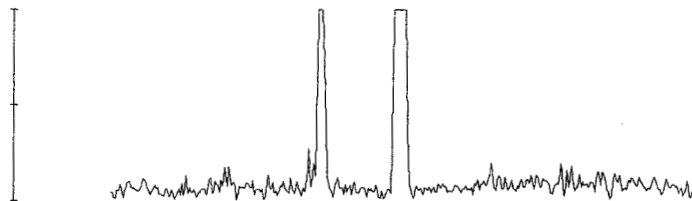
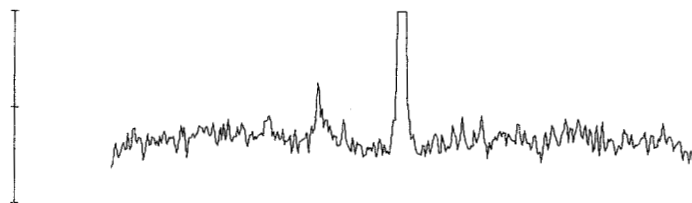
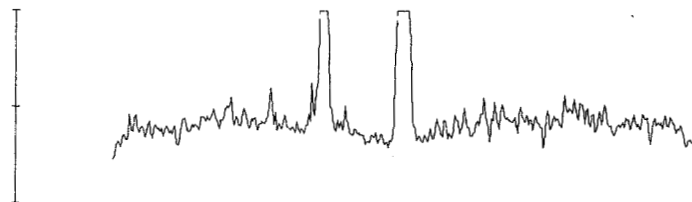
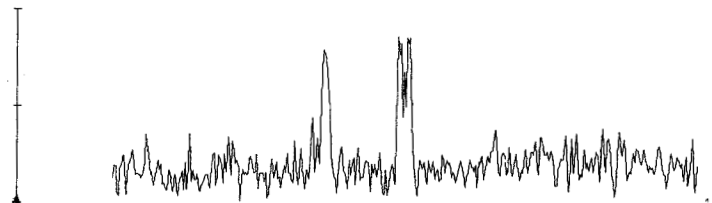
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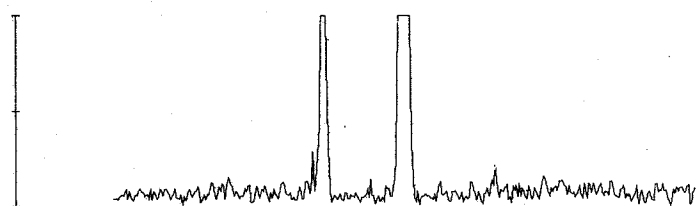
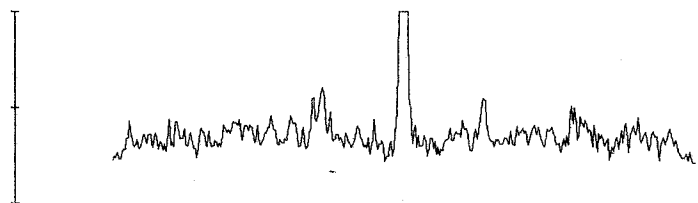
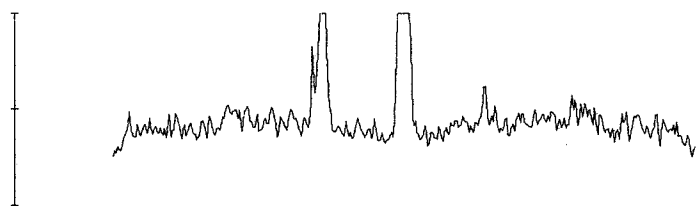
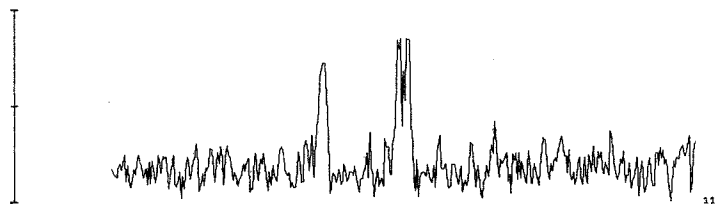
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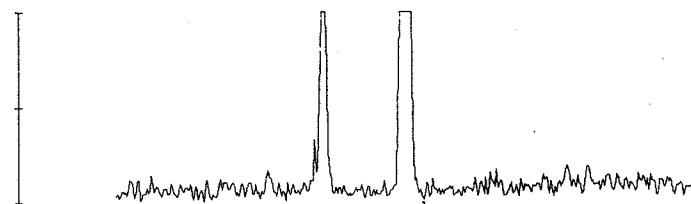
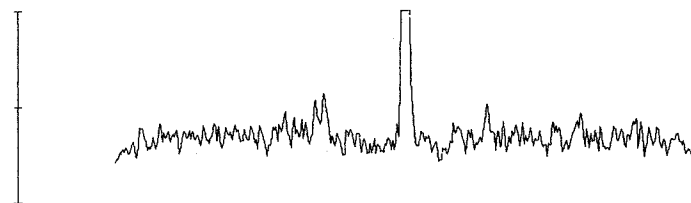
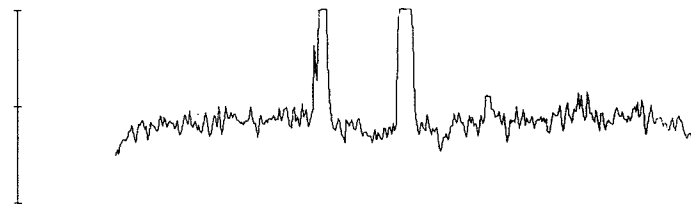
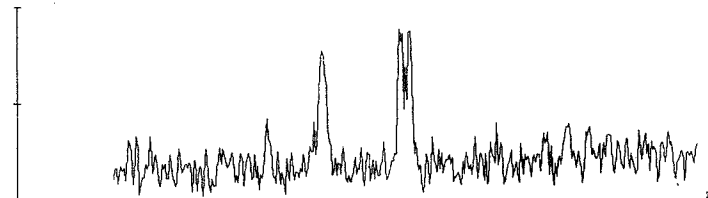
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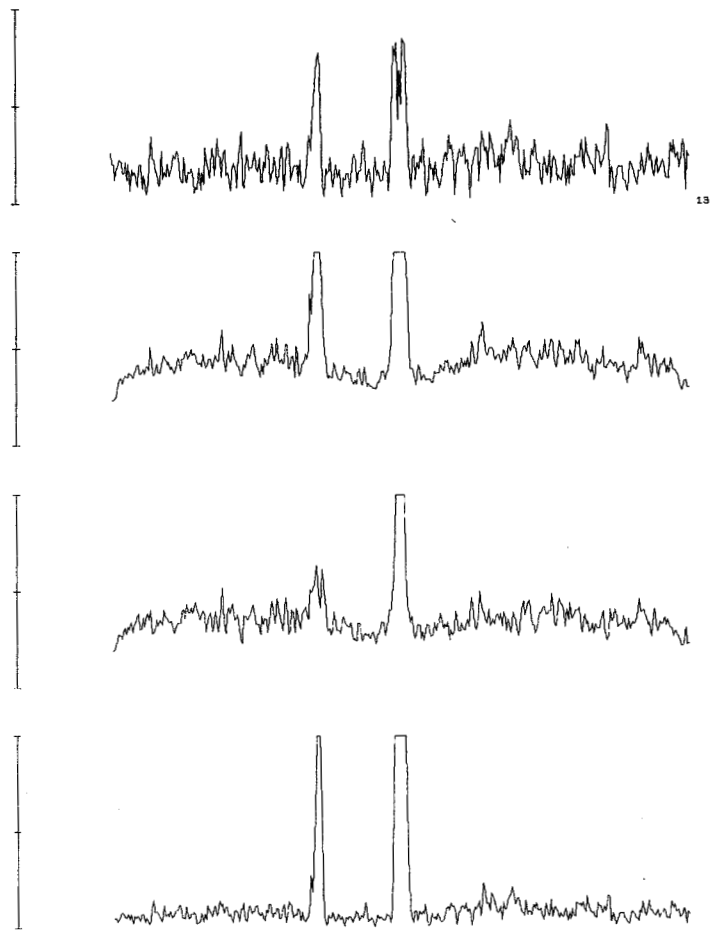
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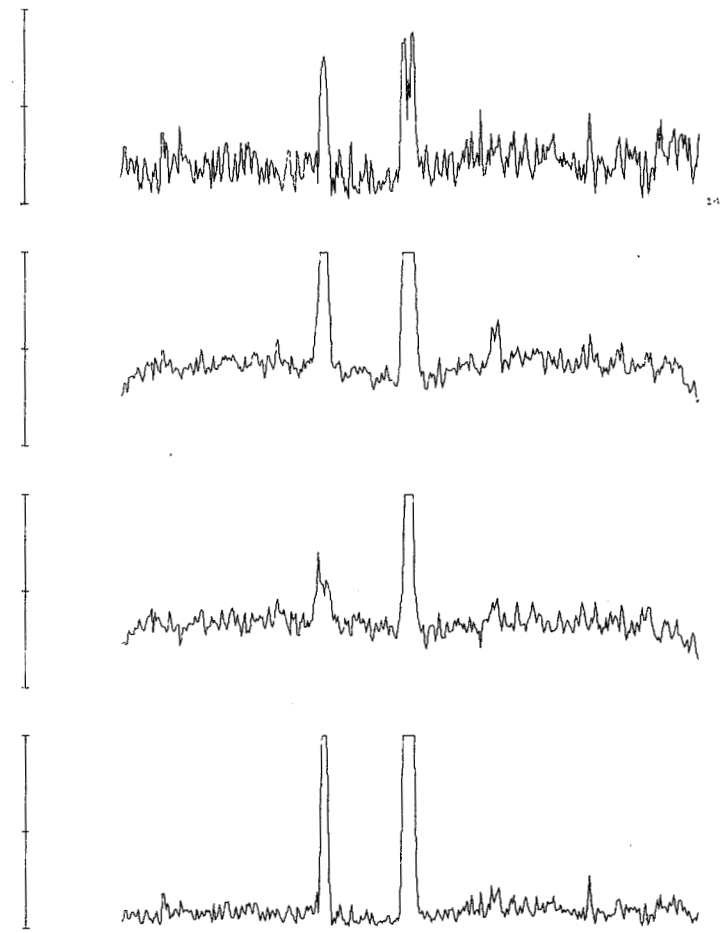
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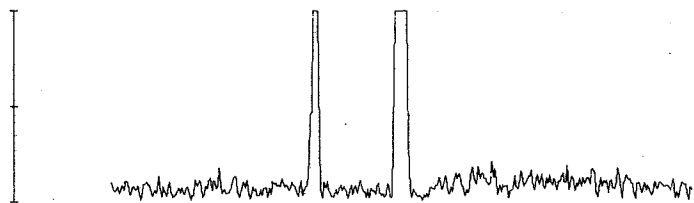
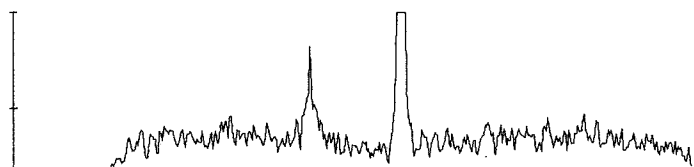
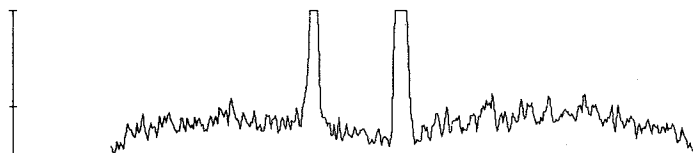
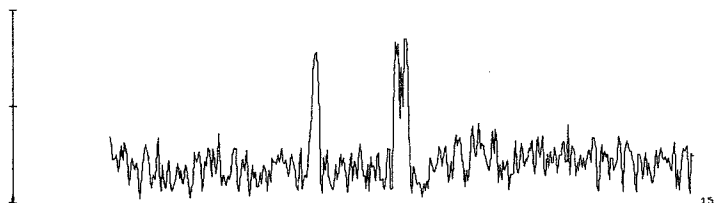
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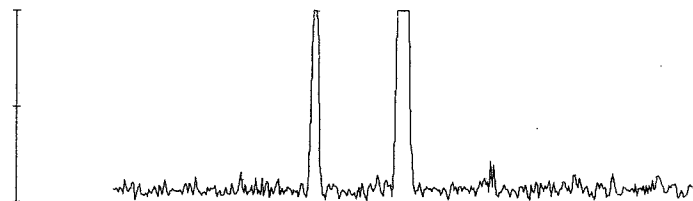
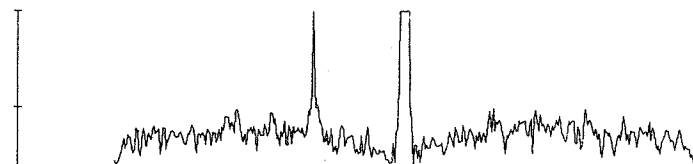
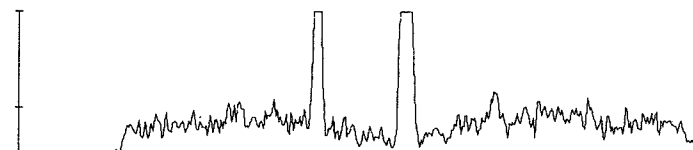
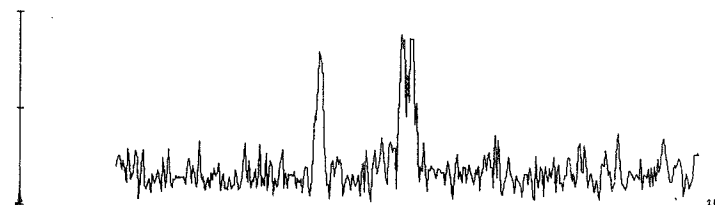
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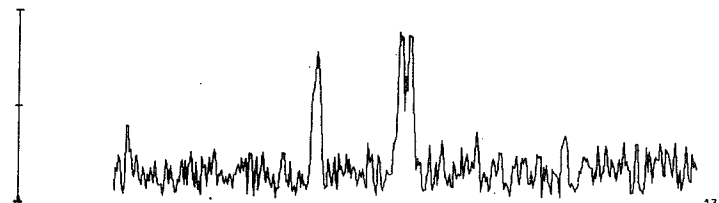
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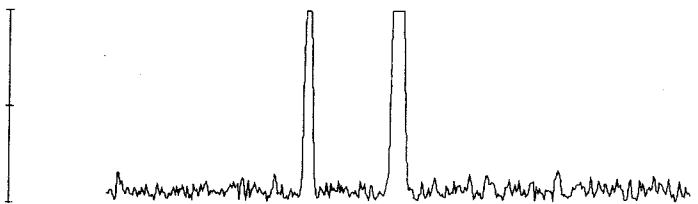
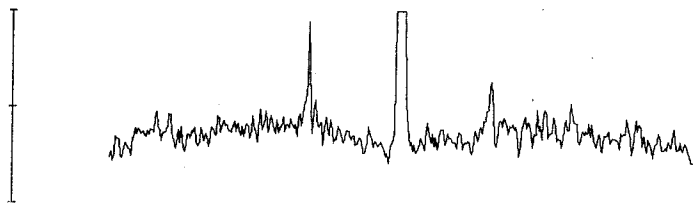
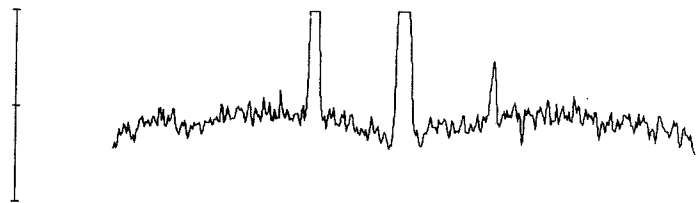
XRD-61/16



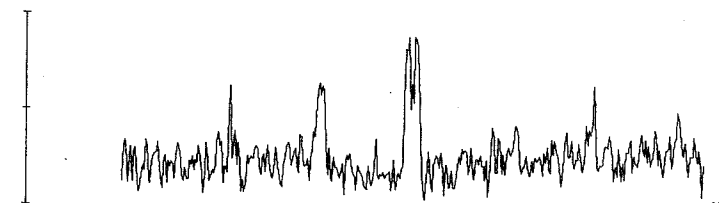
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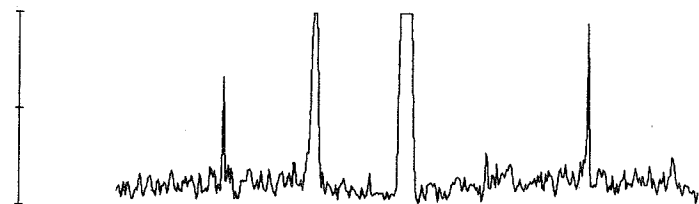
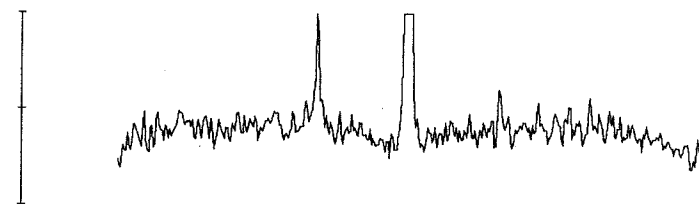
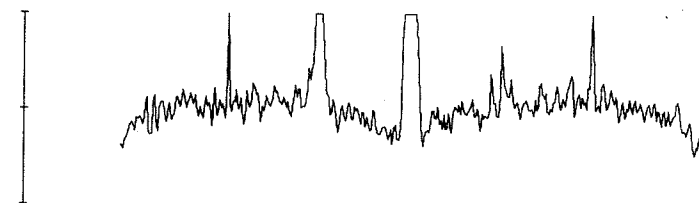
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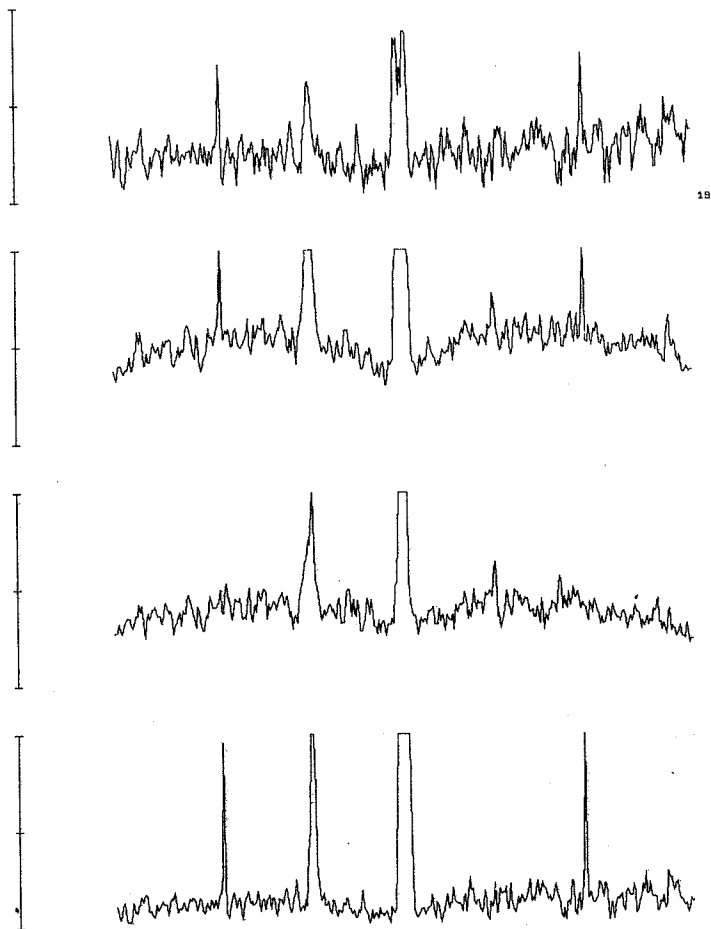
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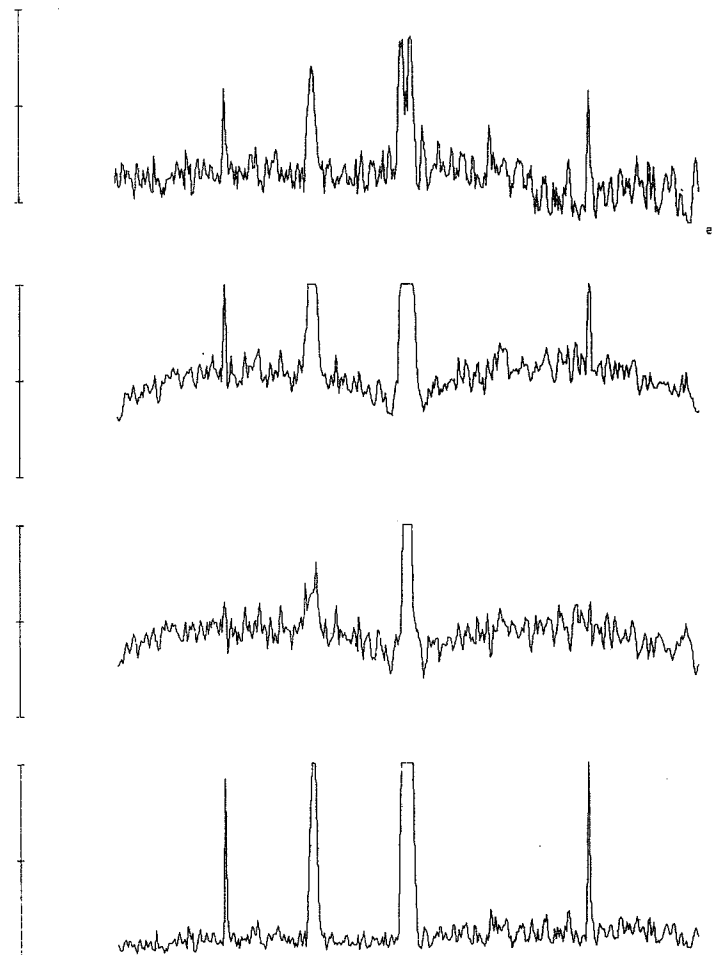
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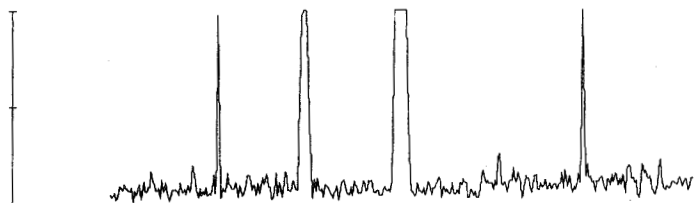
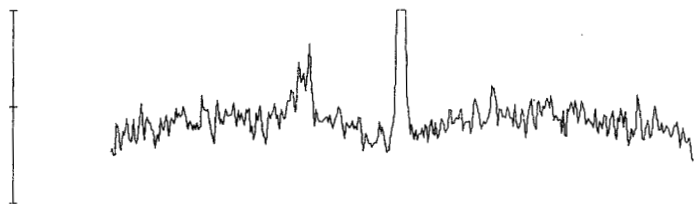
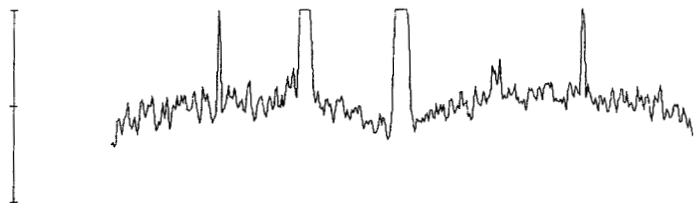
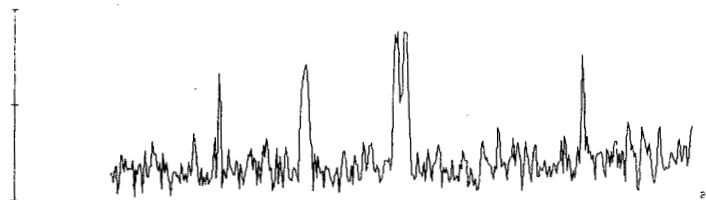
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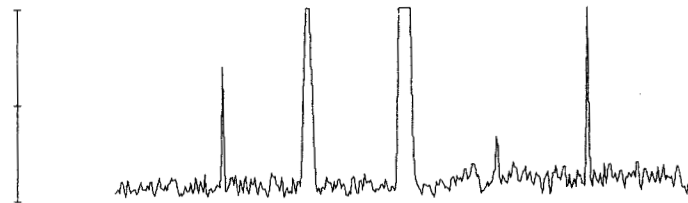
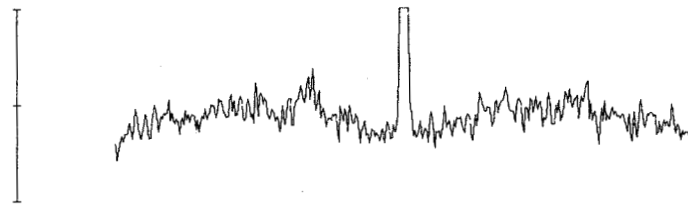
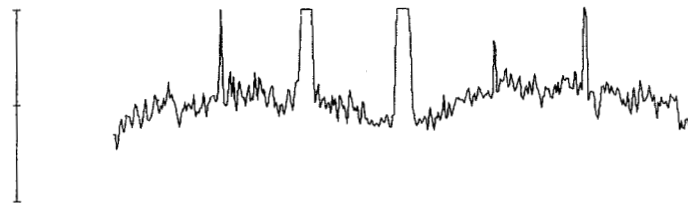
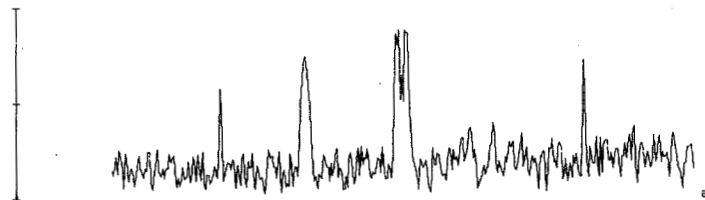
XRD-61/20



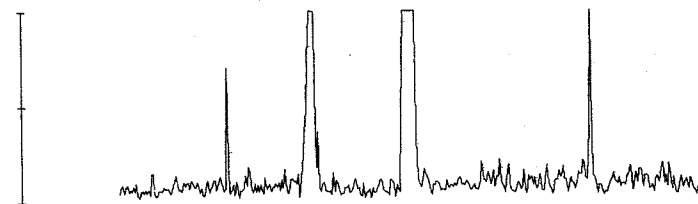
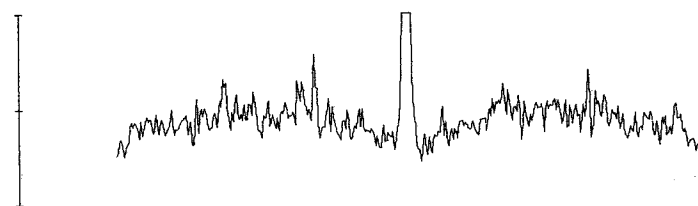
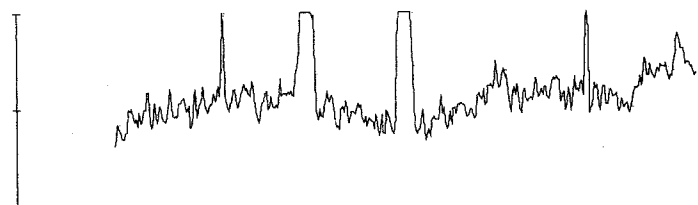
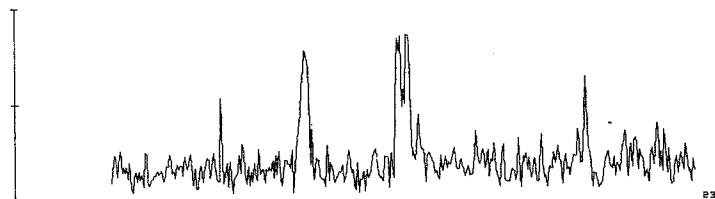
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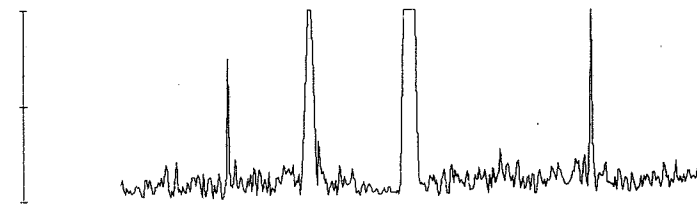
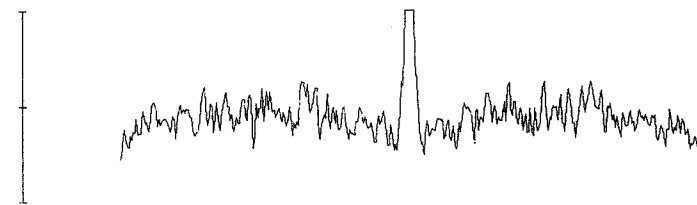
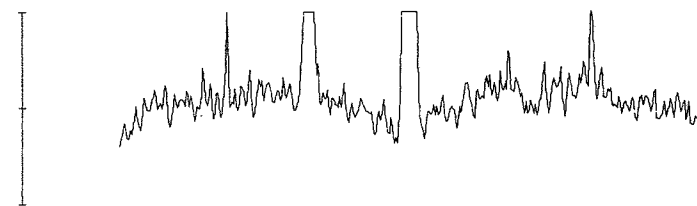
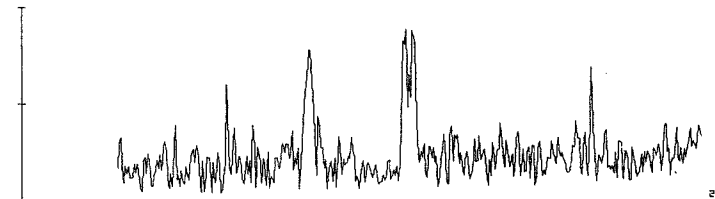
XRD-61/22



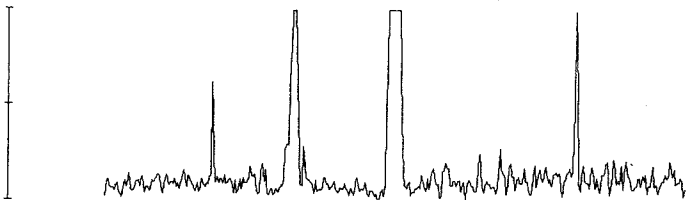
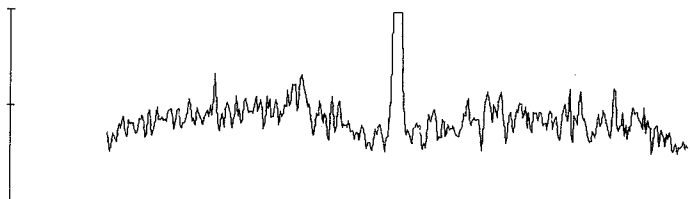
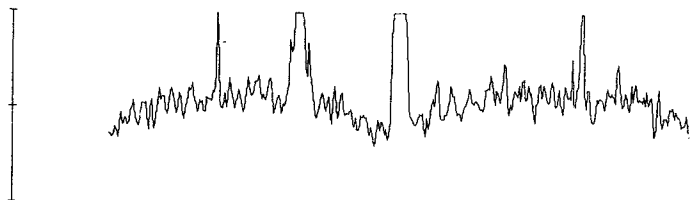
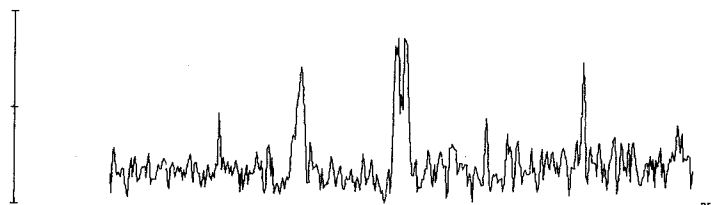
XRD-61/23



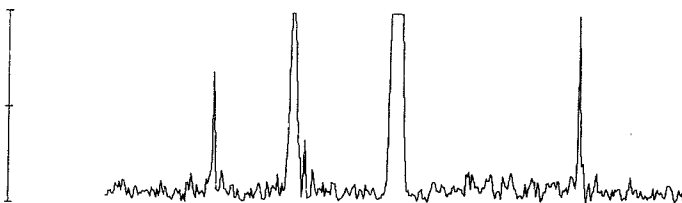
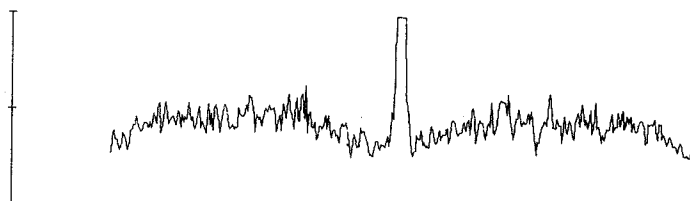
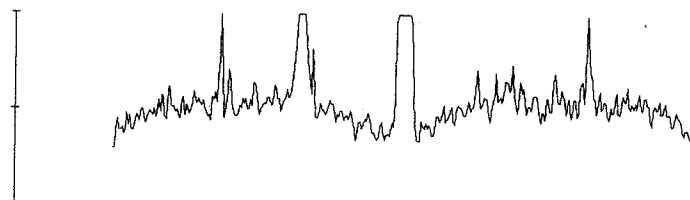
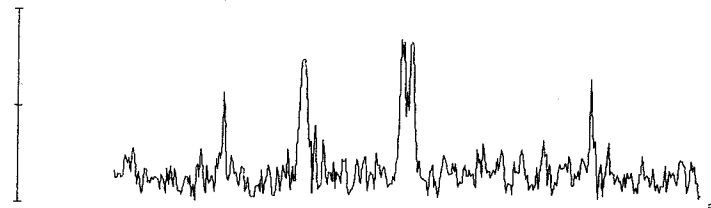
XRD-61/24



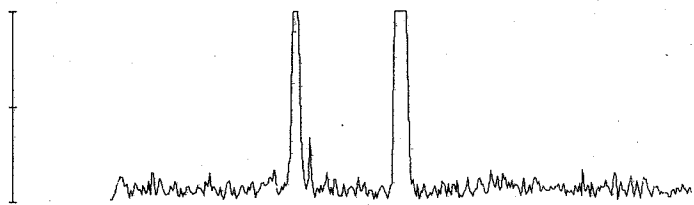
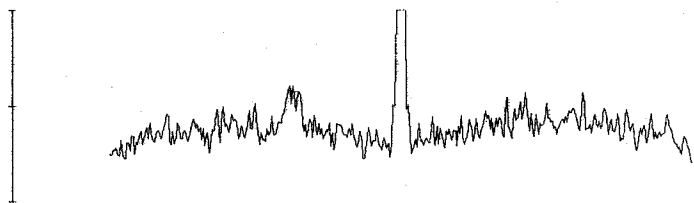
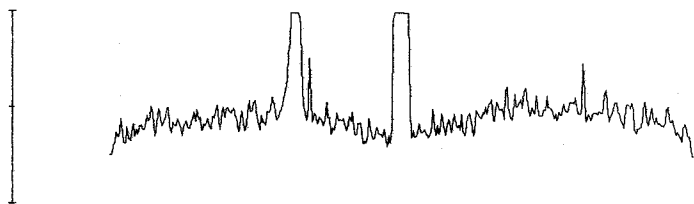
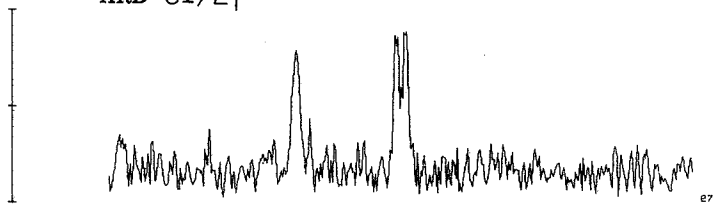
XRD-61/25



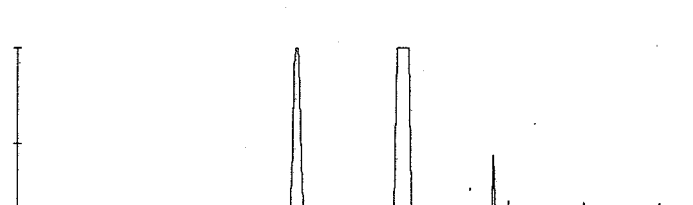
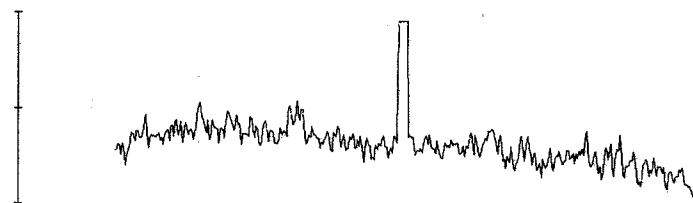
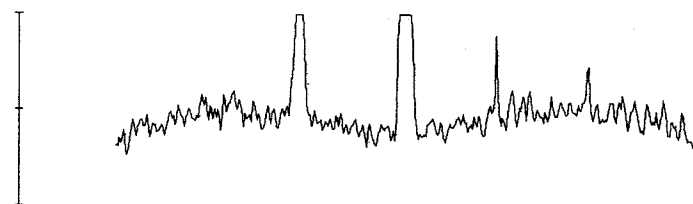
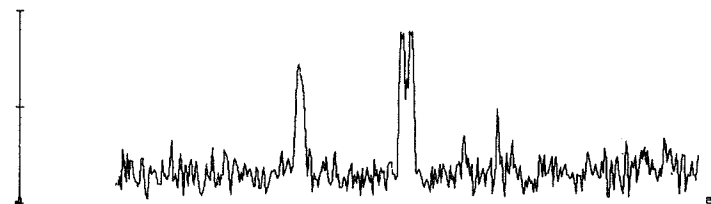
XRD-61/26



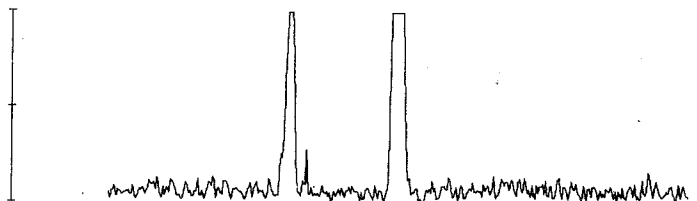
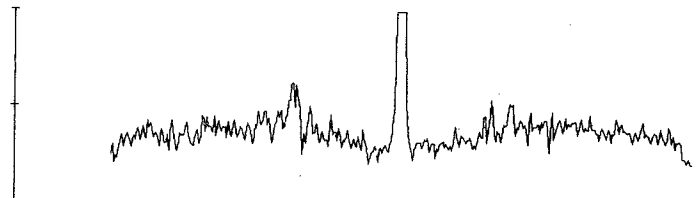
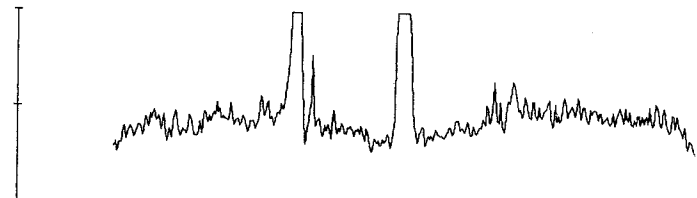
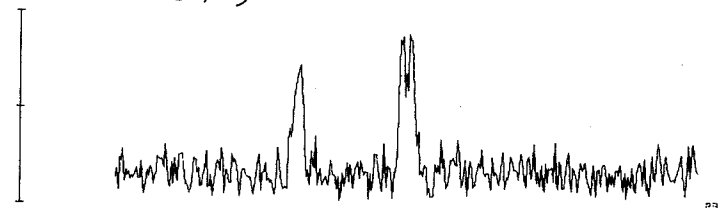
XRD-61/27



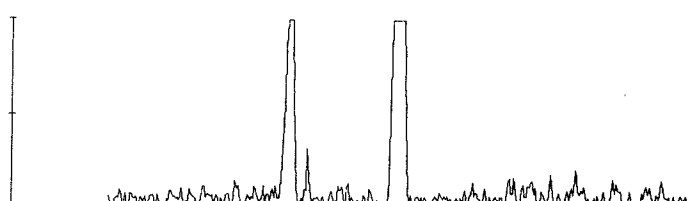
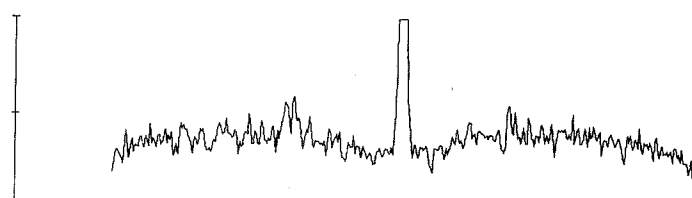
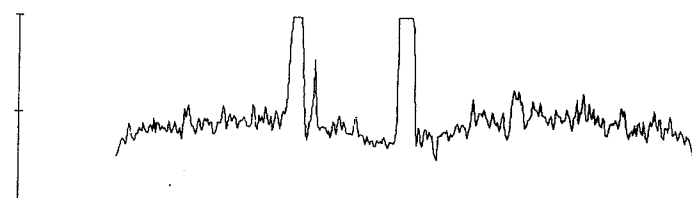
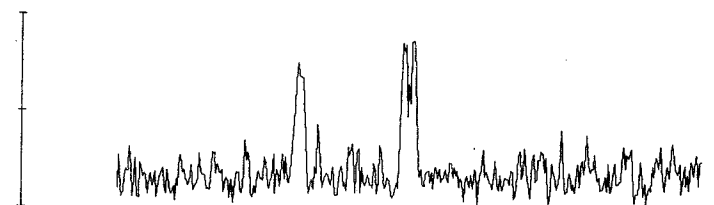
XRD-61/28



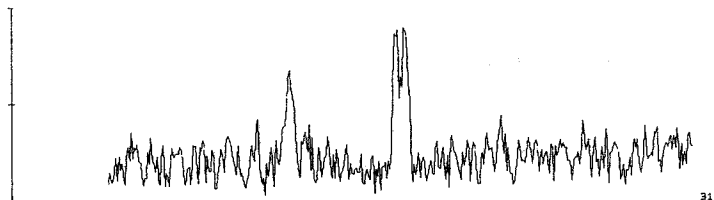
XRD-61/29



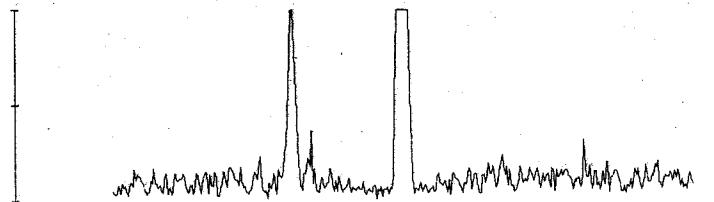
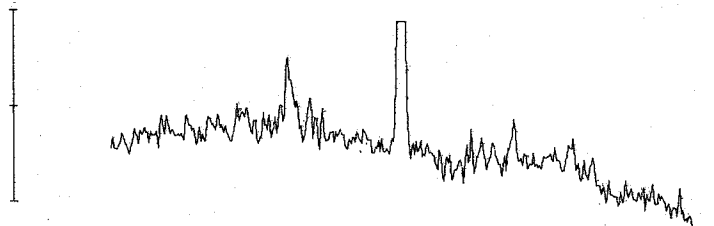
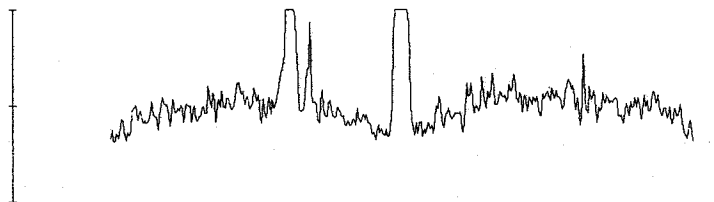
XRD-61/30



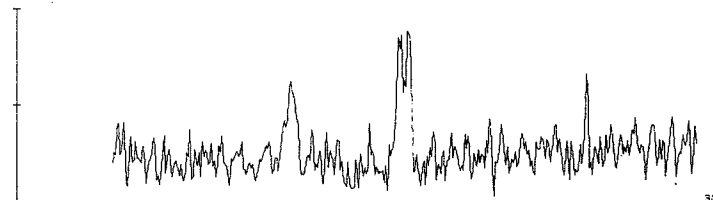
XRD-61/31



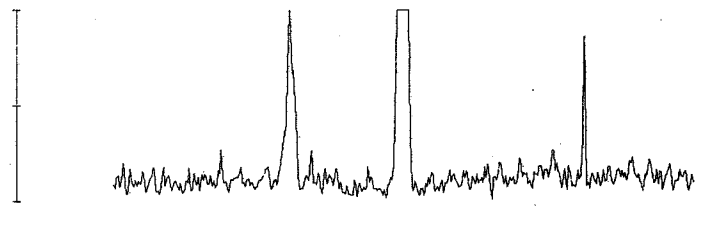
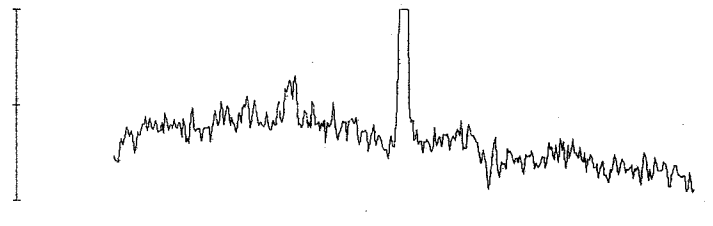
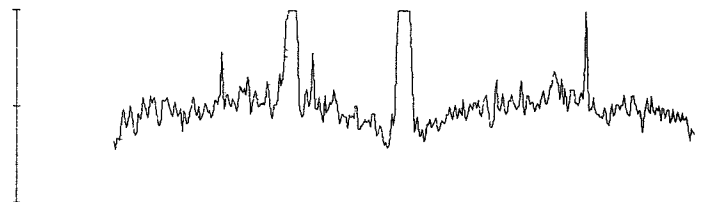
31



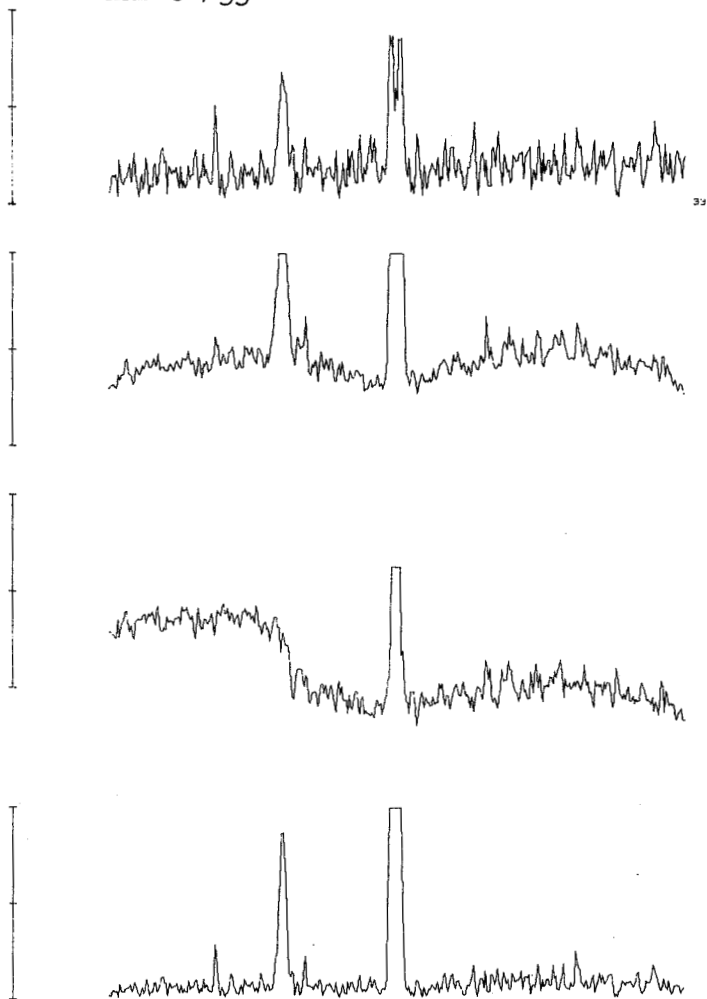
XRD-61/32



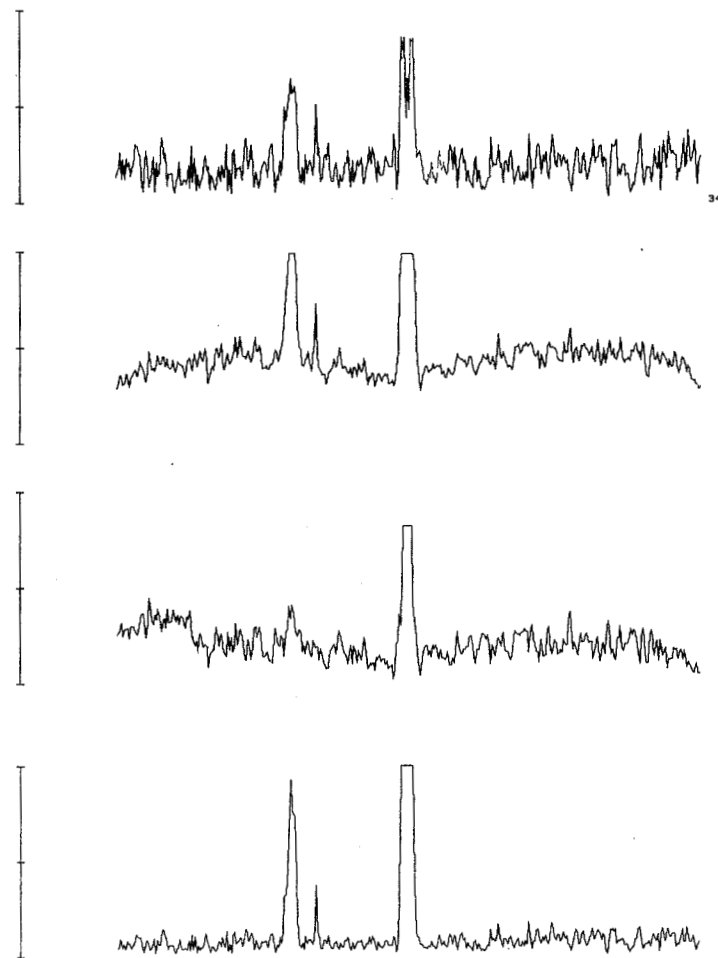
32



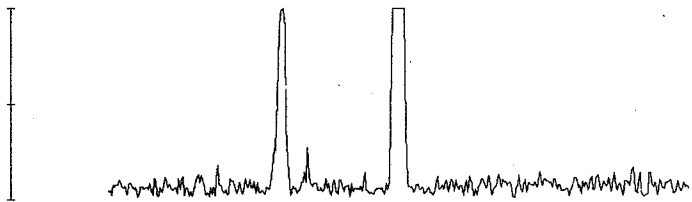
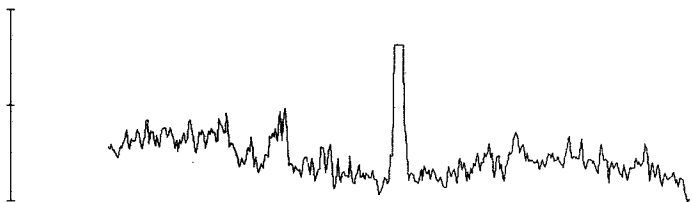
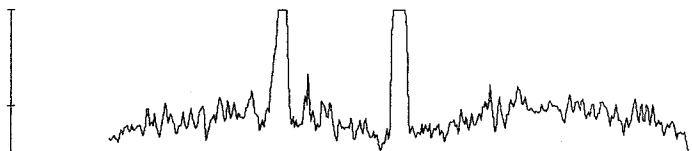
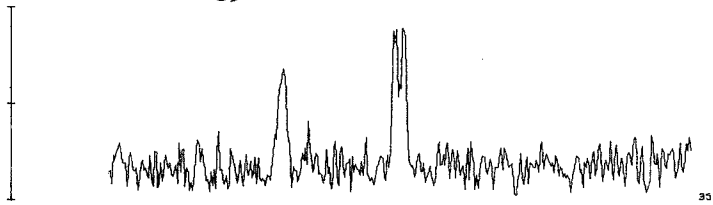
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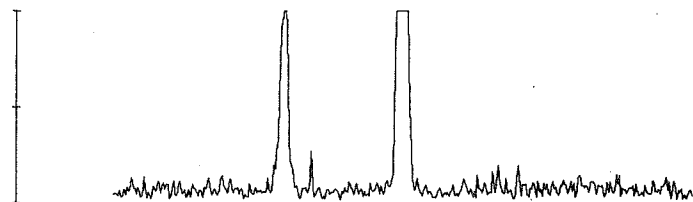
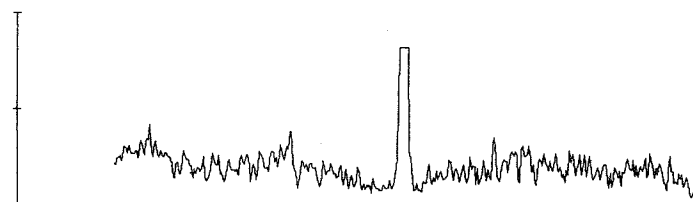
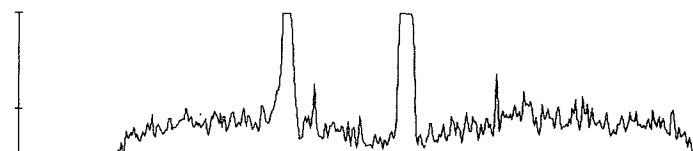
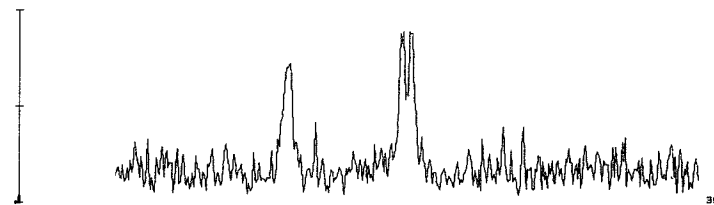
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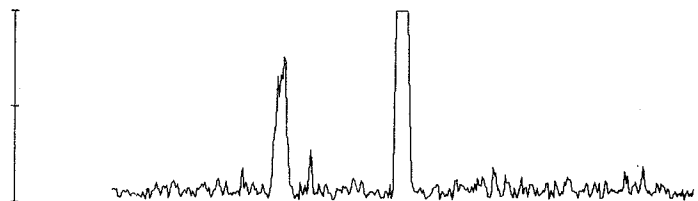
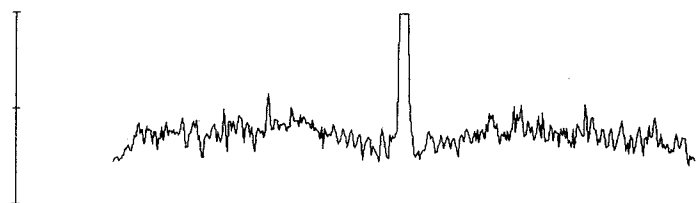
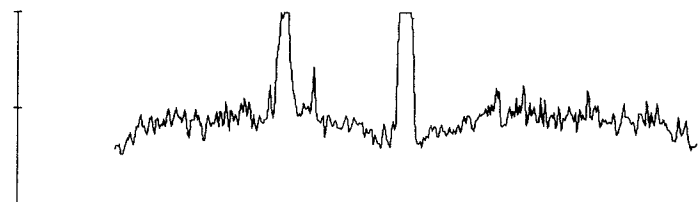
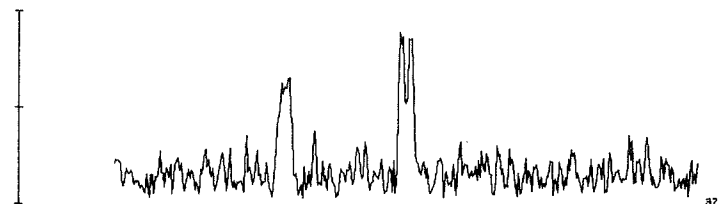
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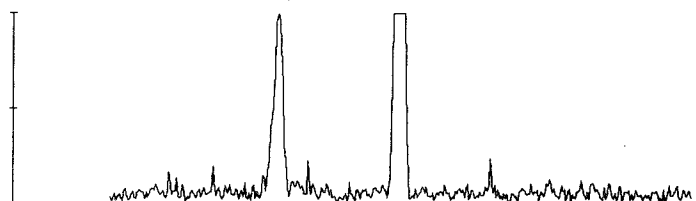
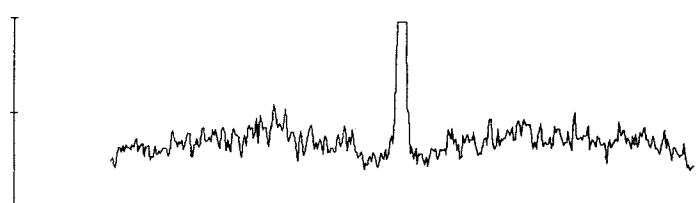
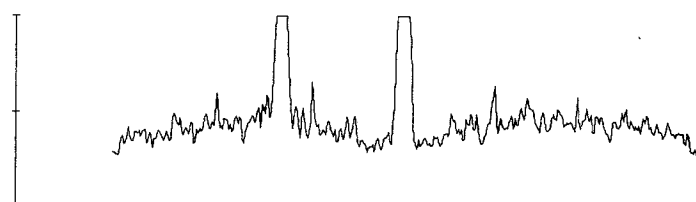
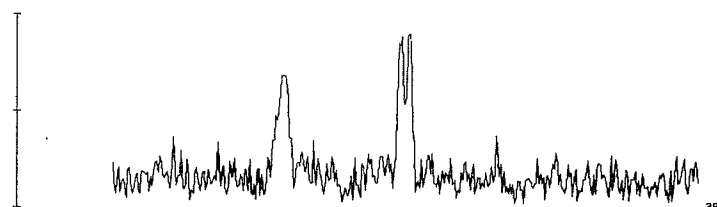
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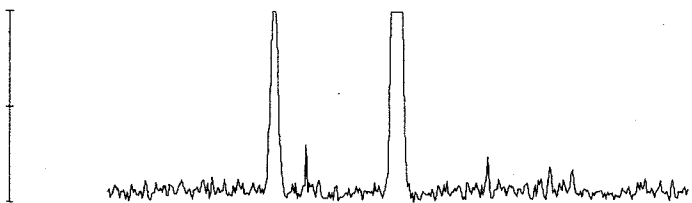
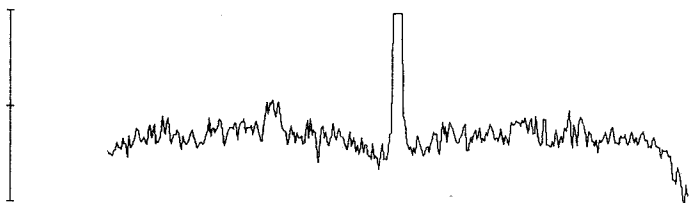
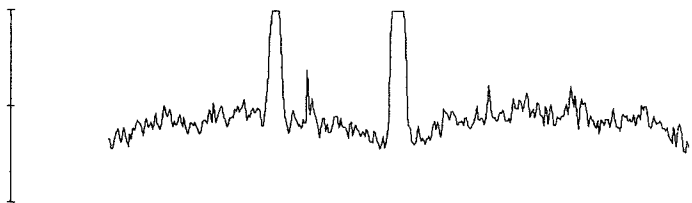
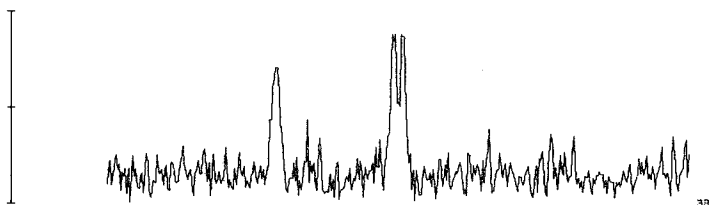
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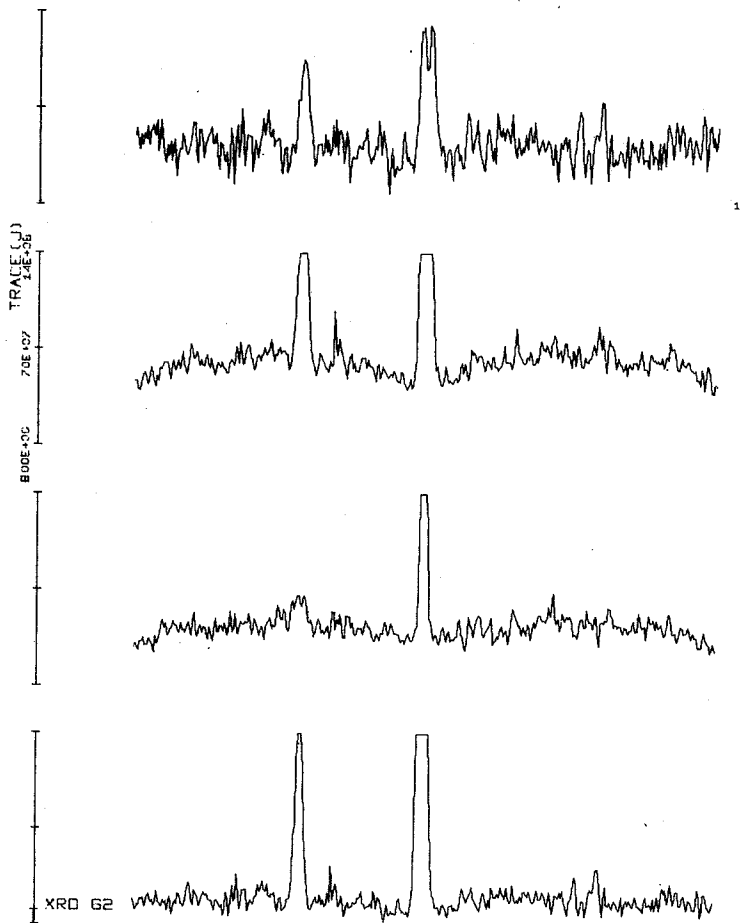
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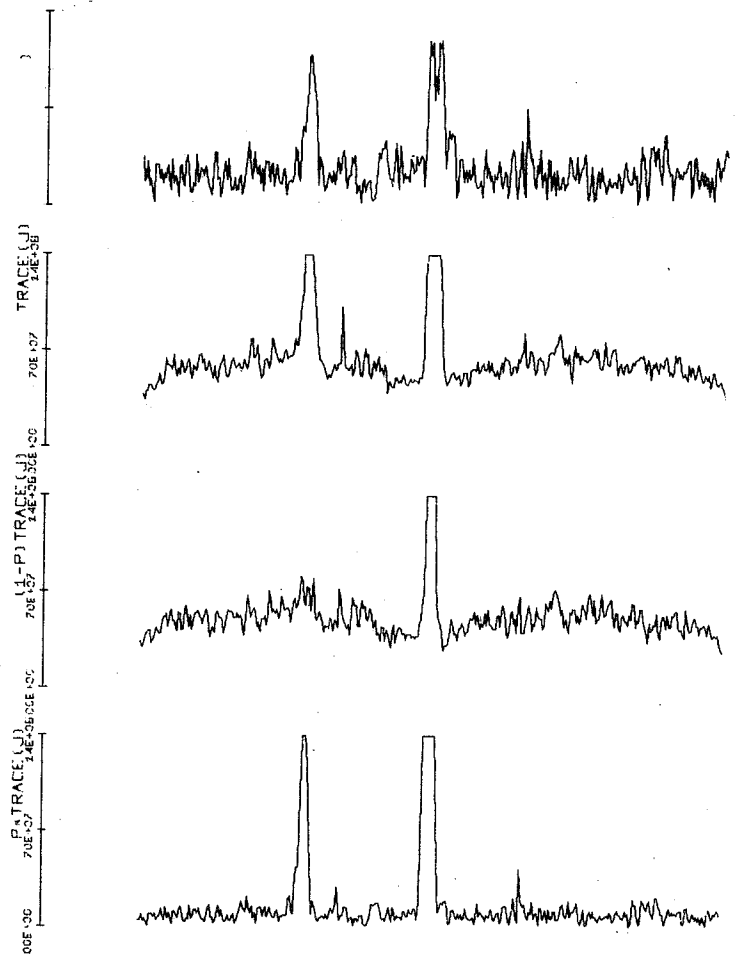
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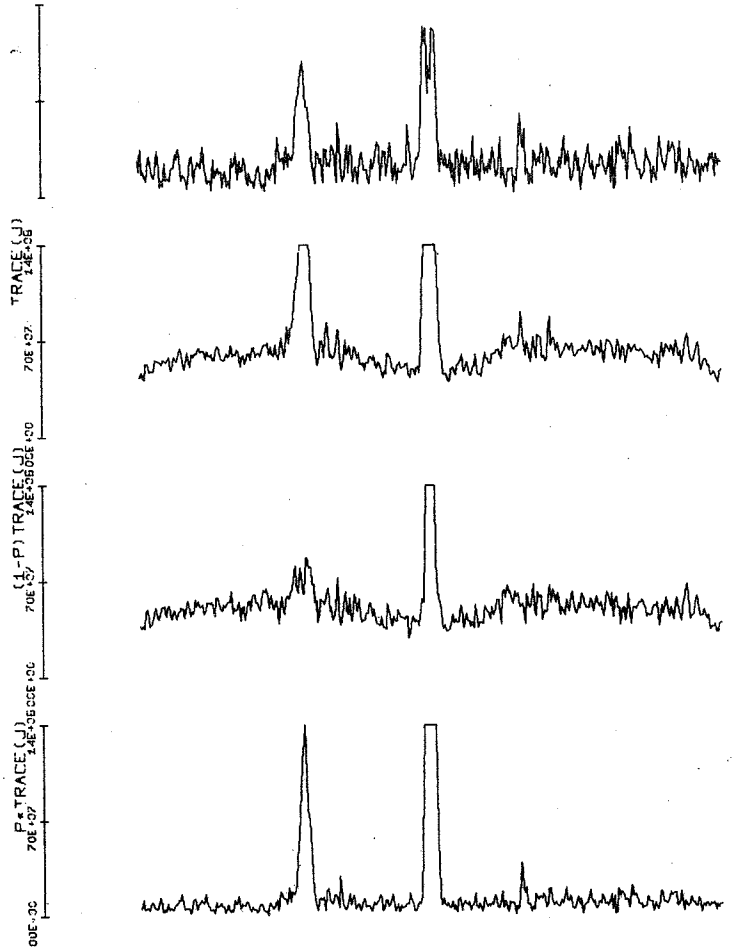
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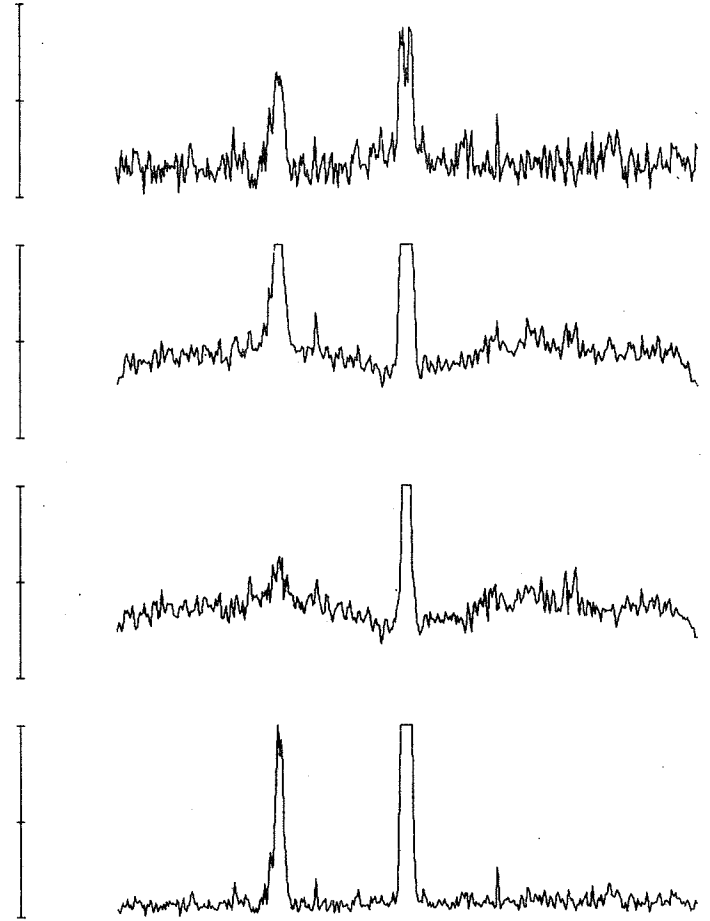
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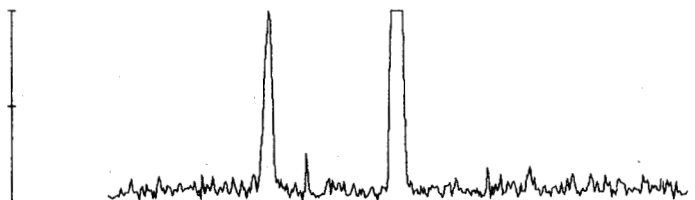
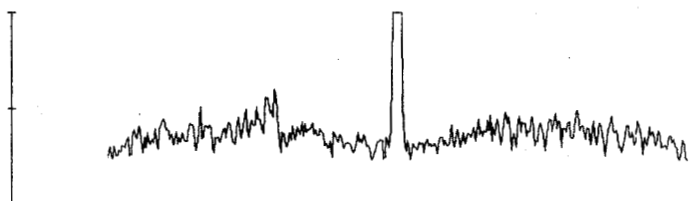
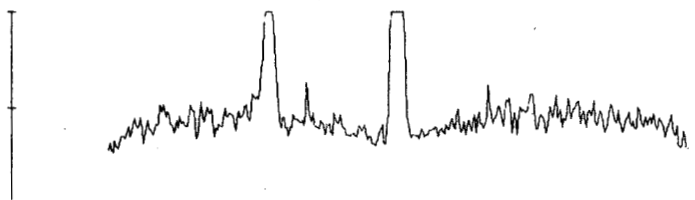
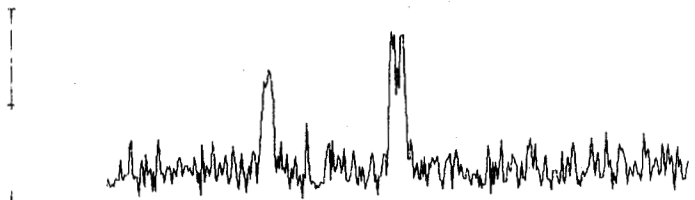
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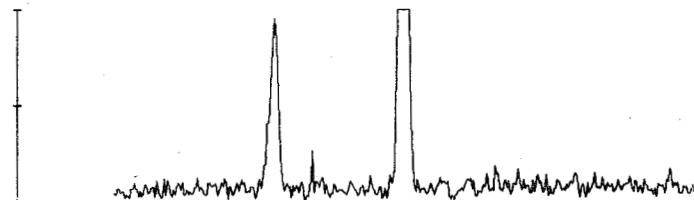
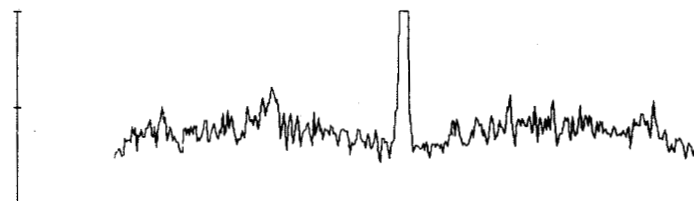
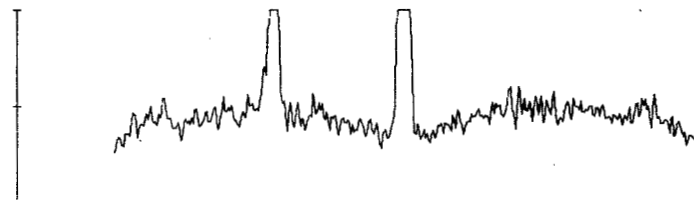
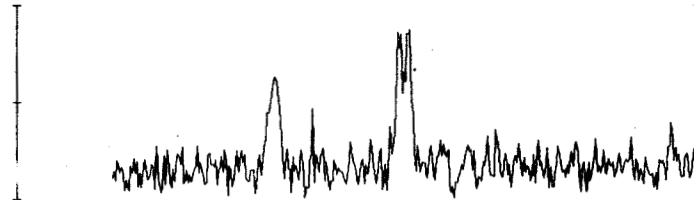
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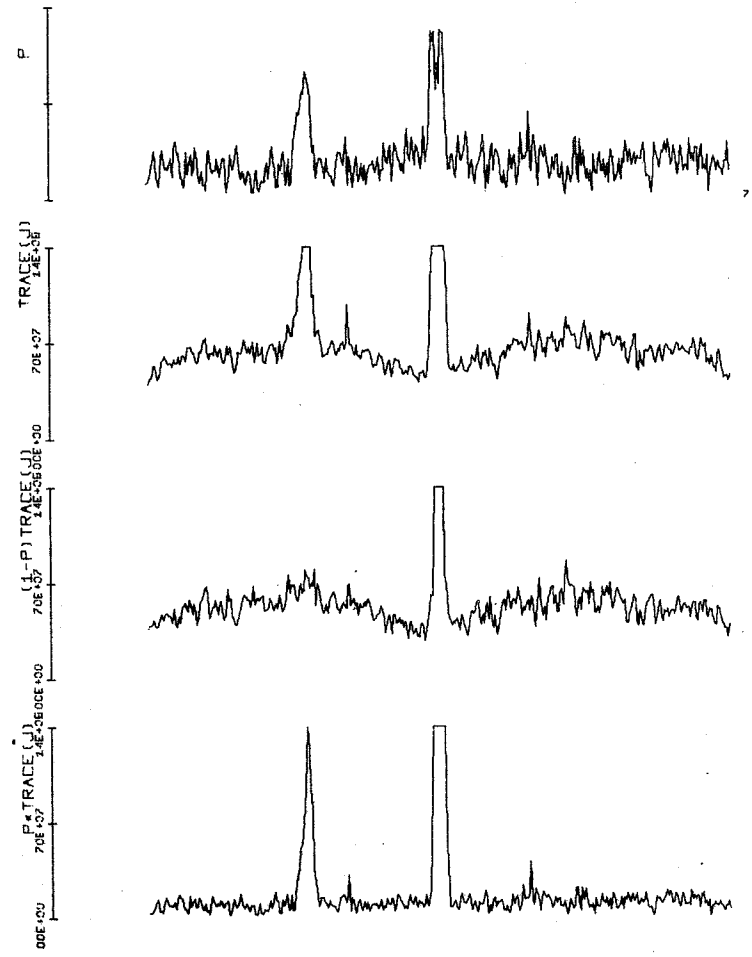
XRD-62/5



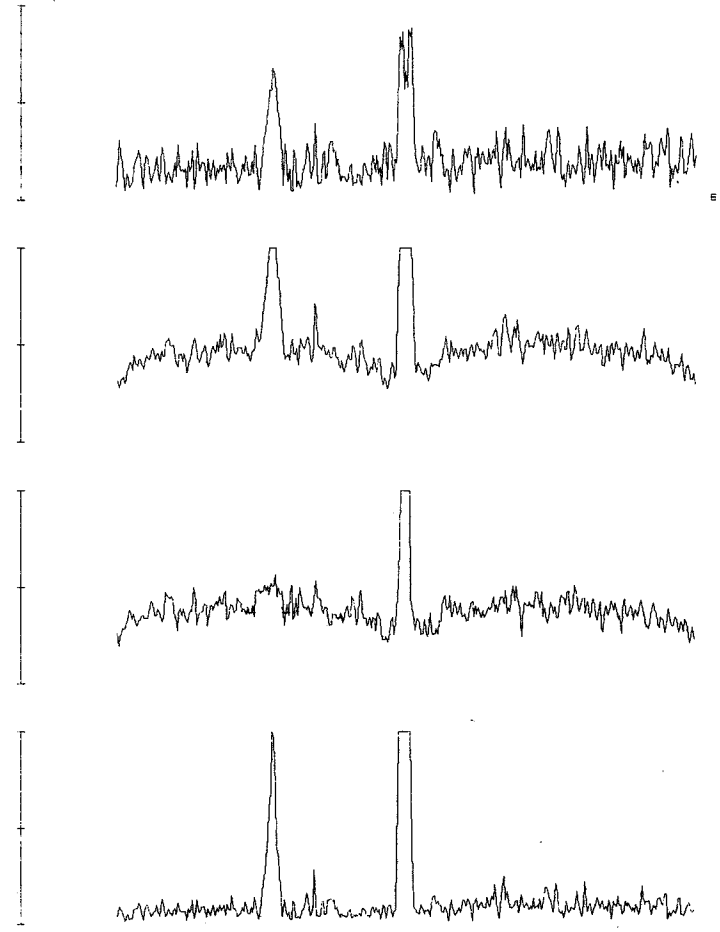
XRD-62/6



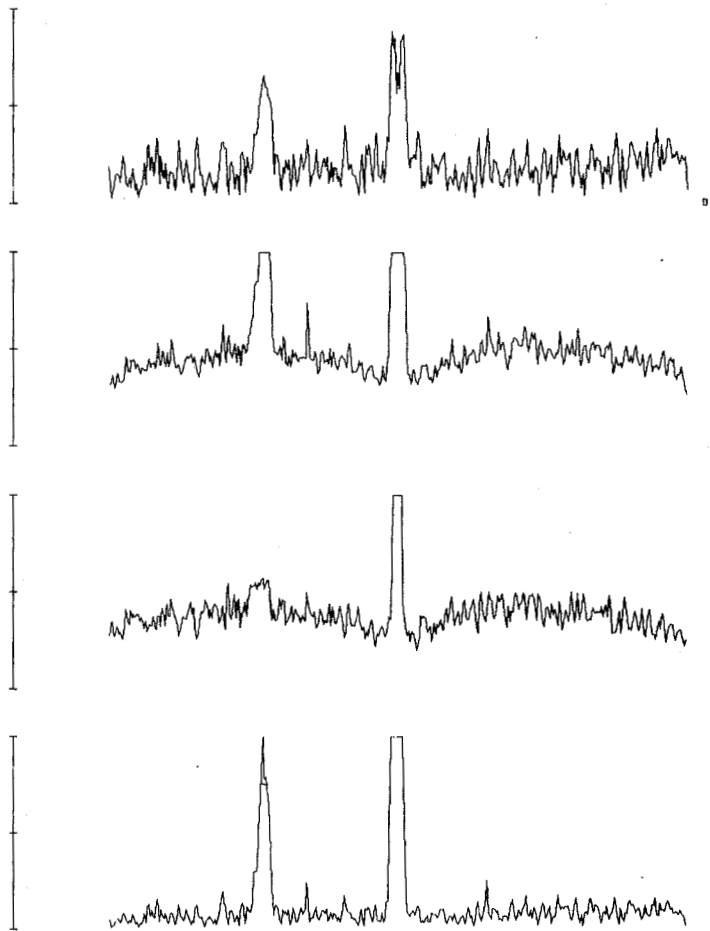
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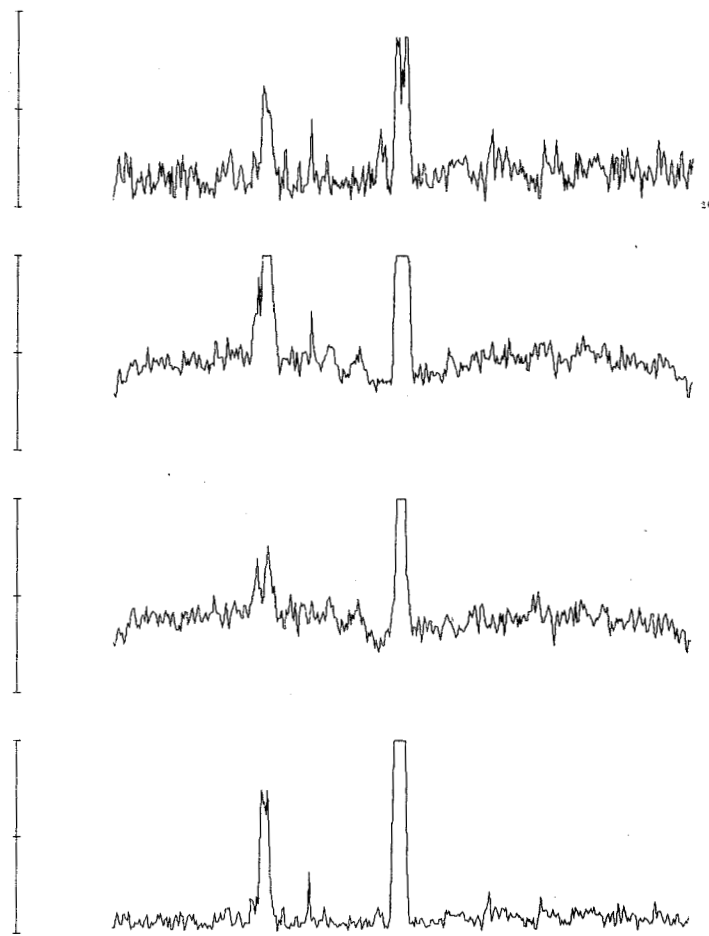
XRD-62/8



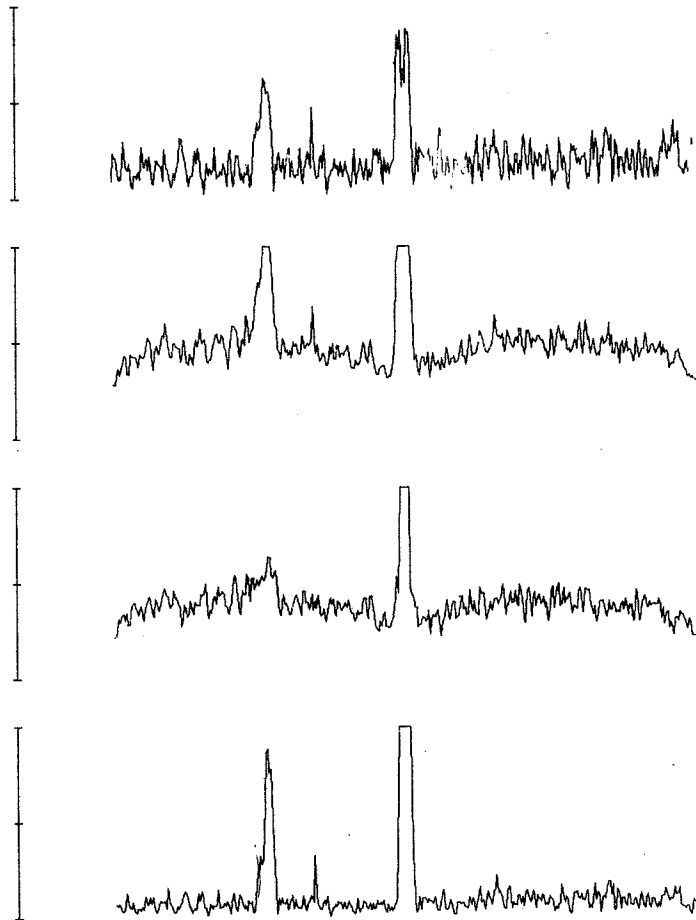
XRD-62/9



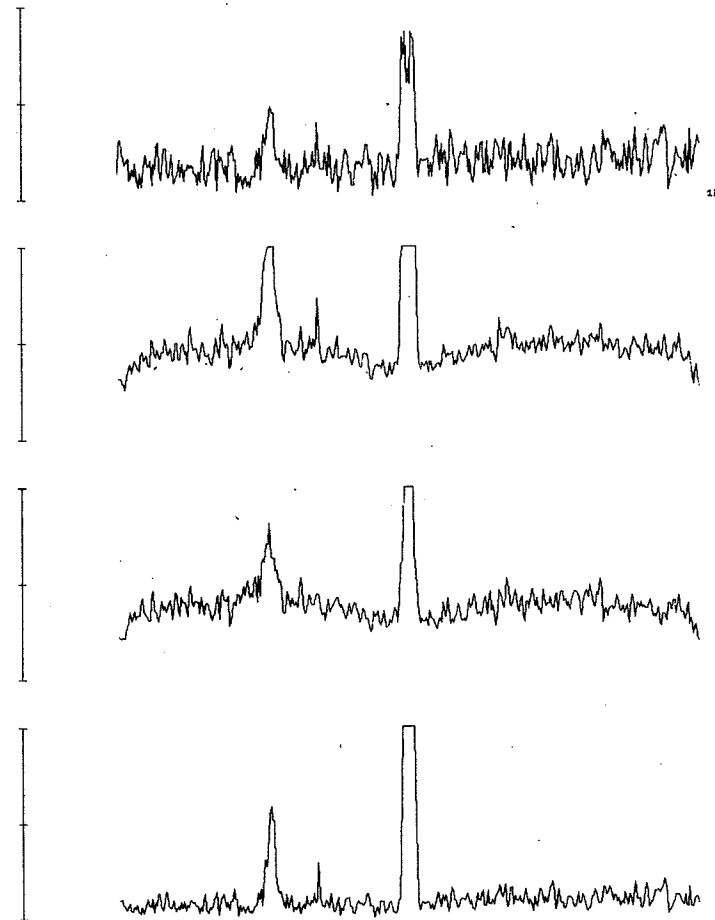
XRD-62/10



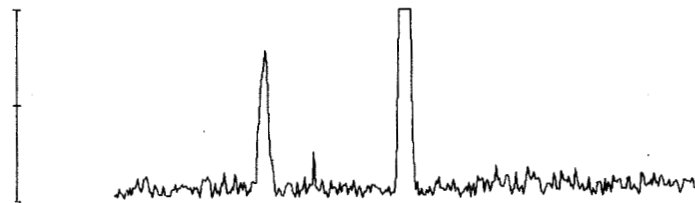
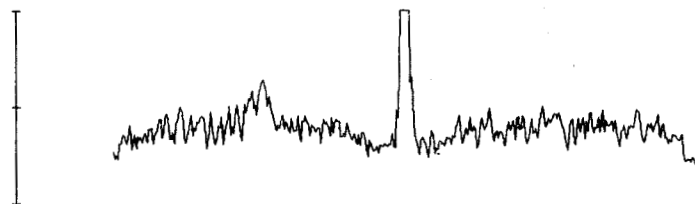
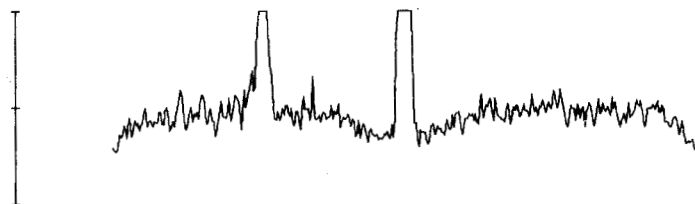
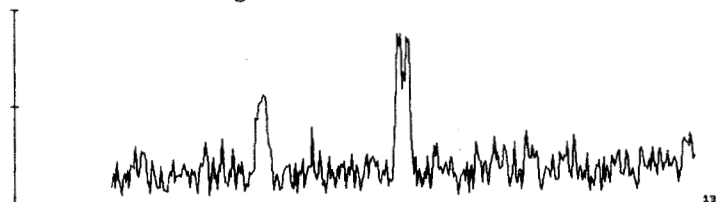
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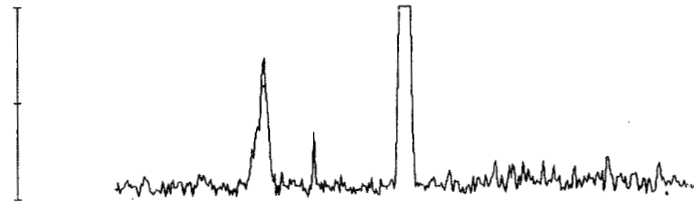
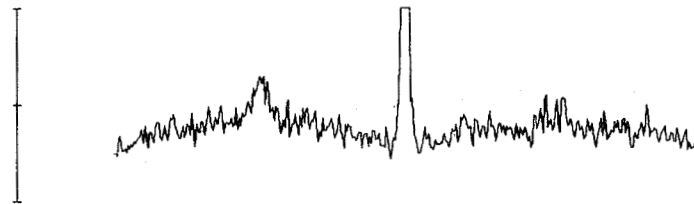
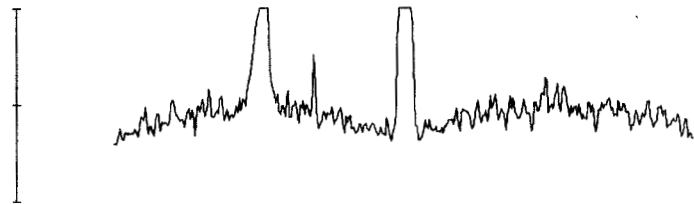
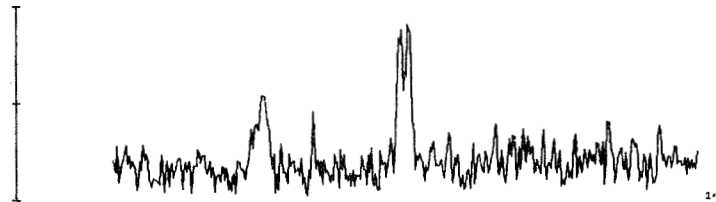
XRD-62/12



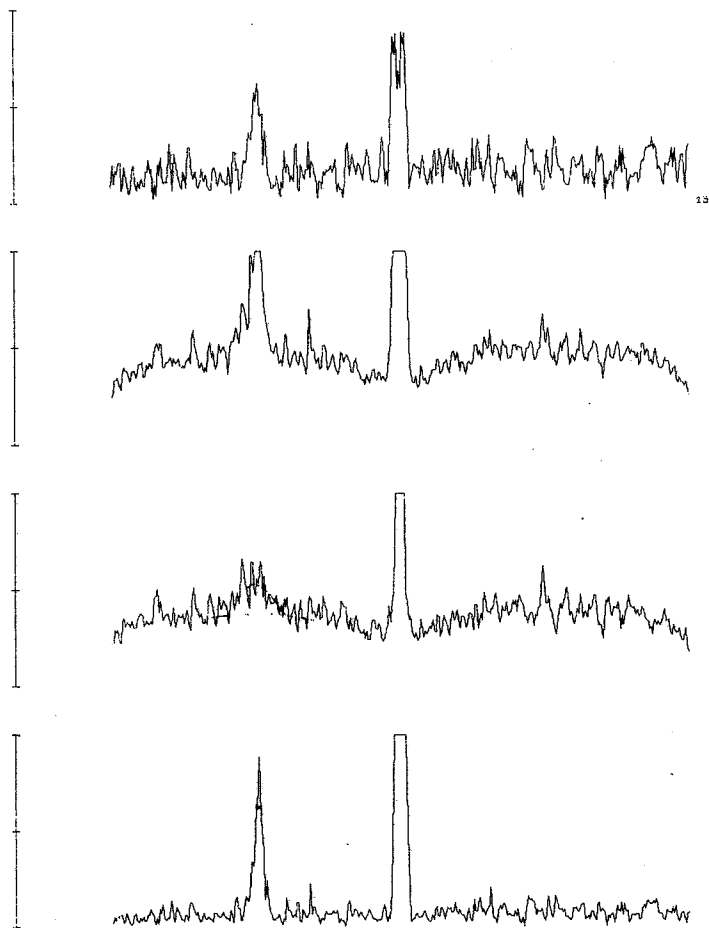
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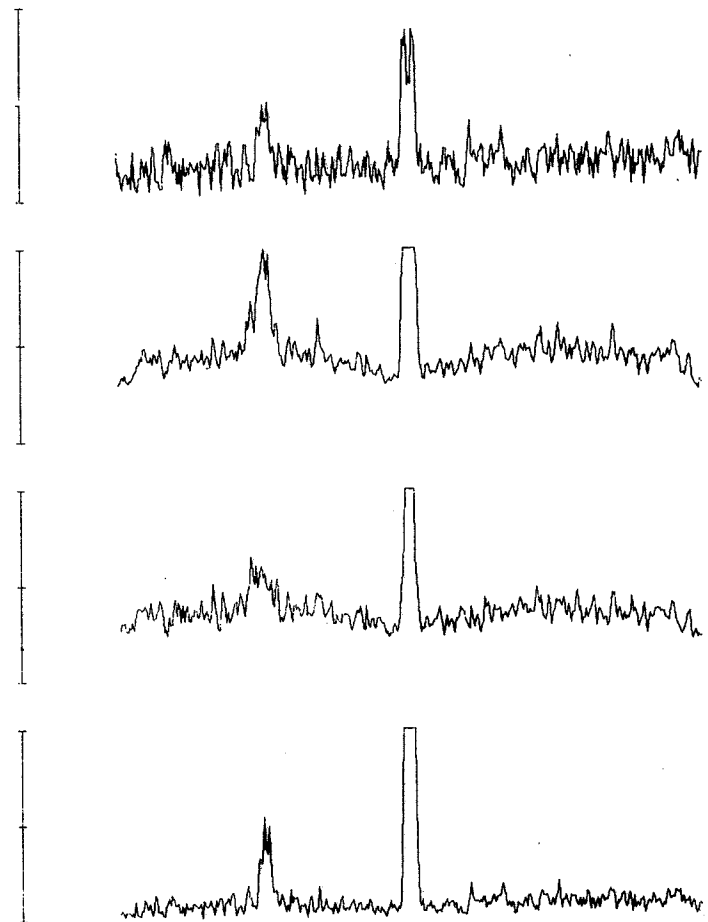
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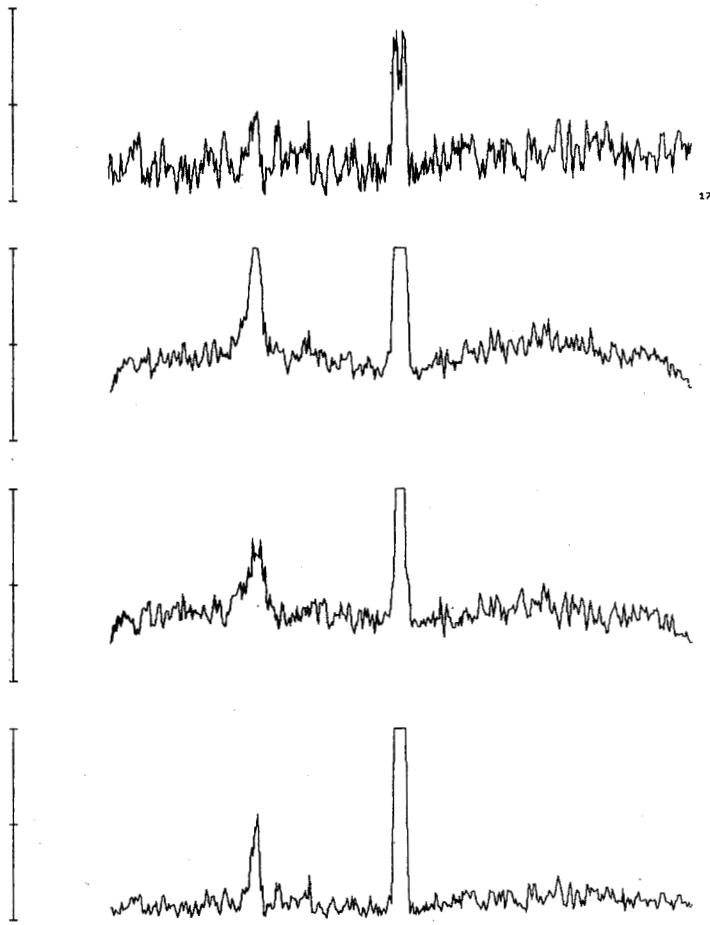
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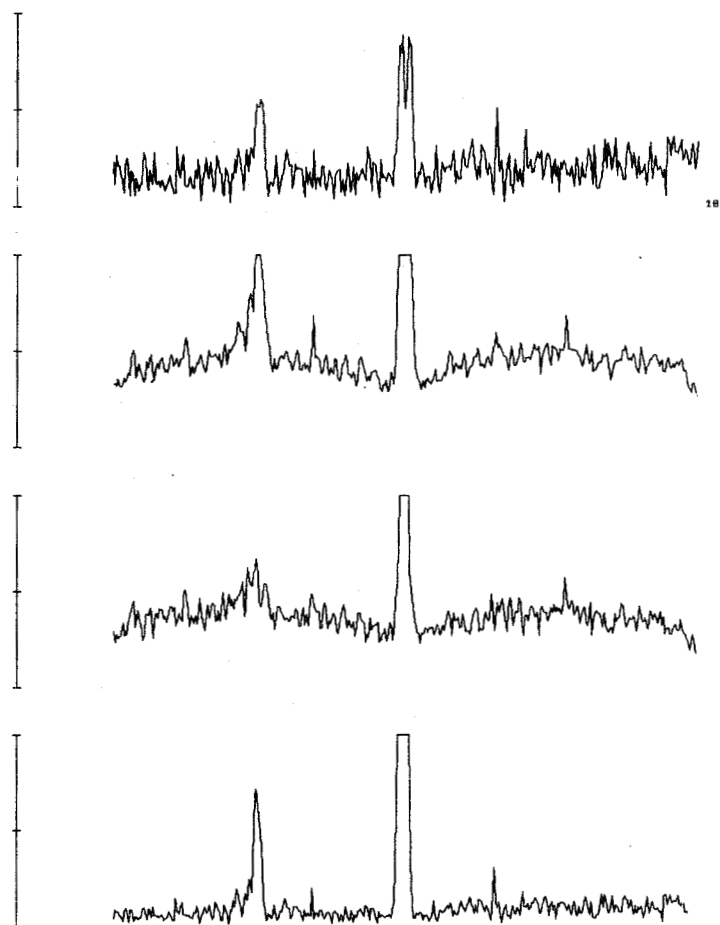


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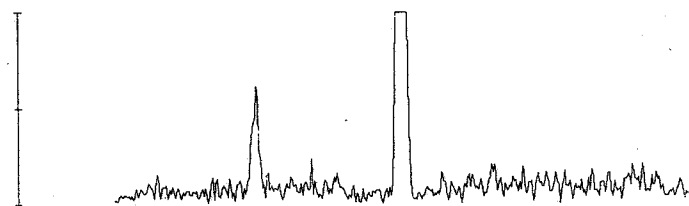
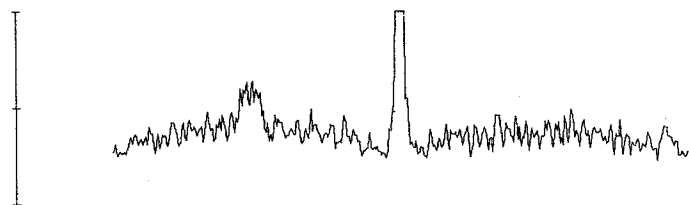
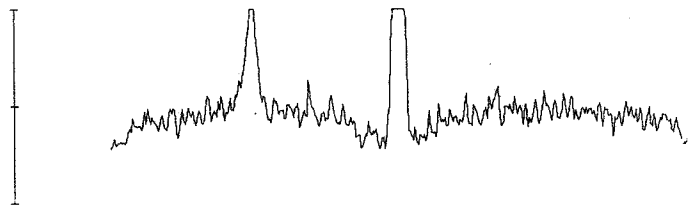
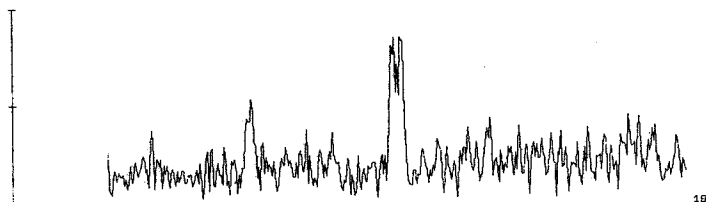
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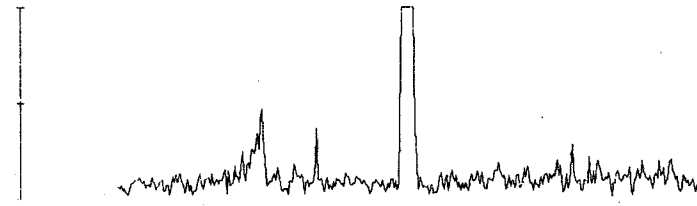
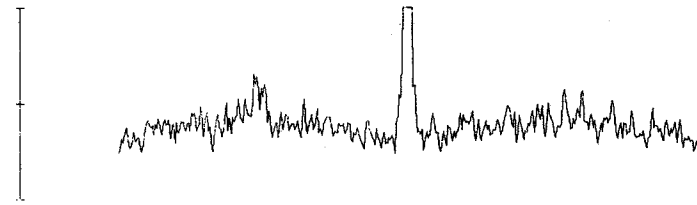
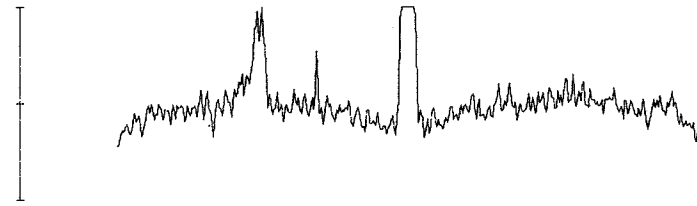
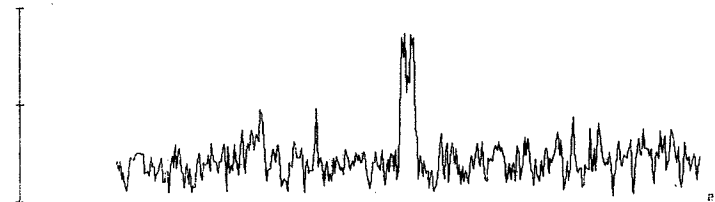


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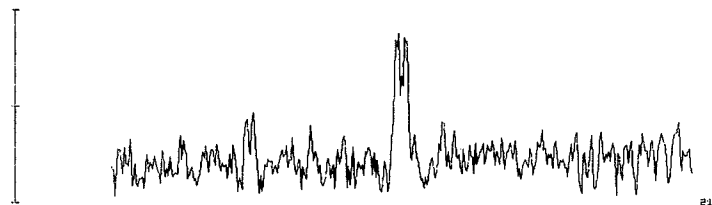
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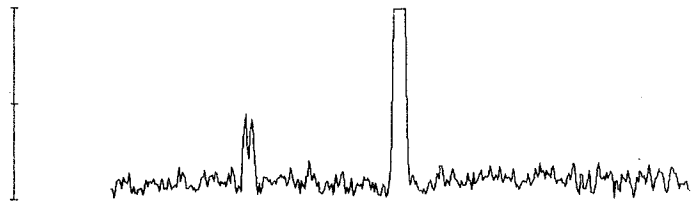
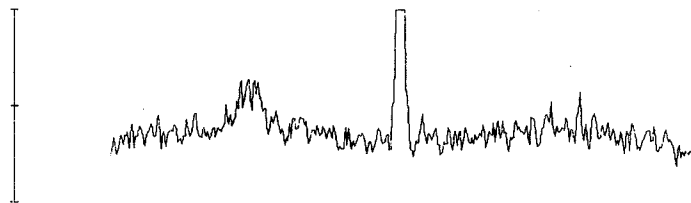
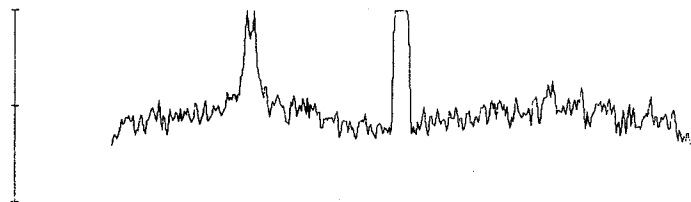
XRD-62/20



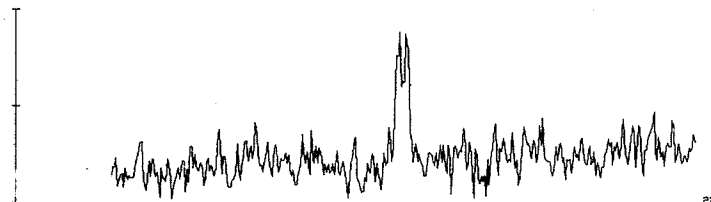
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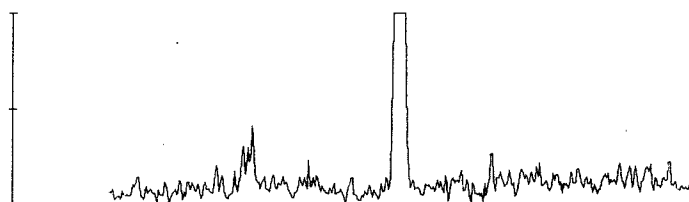
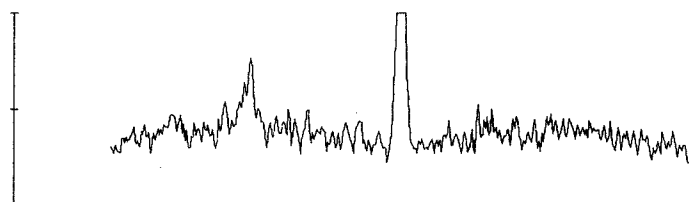
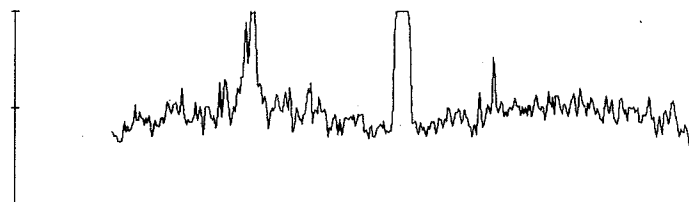
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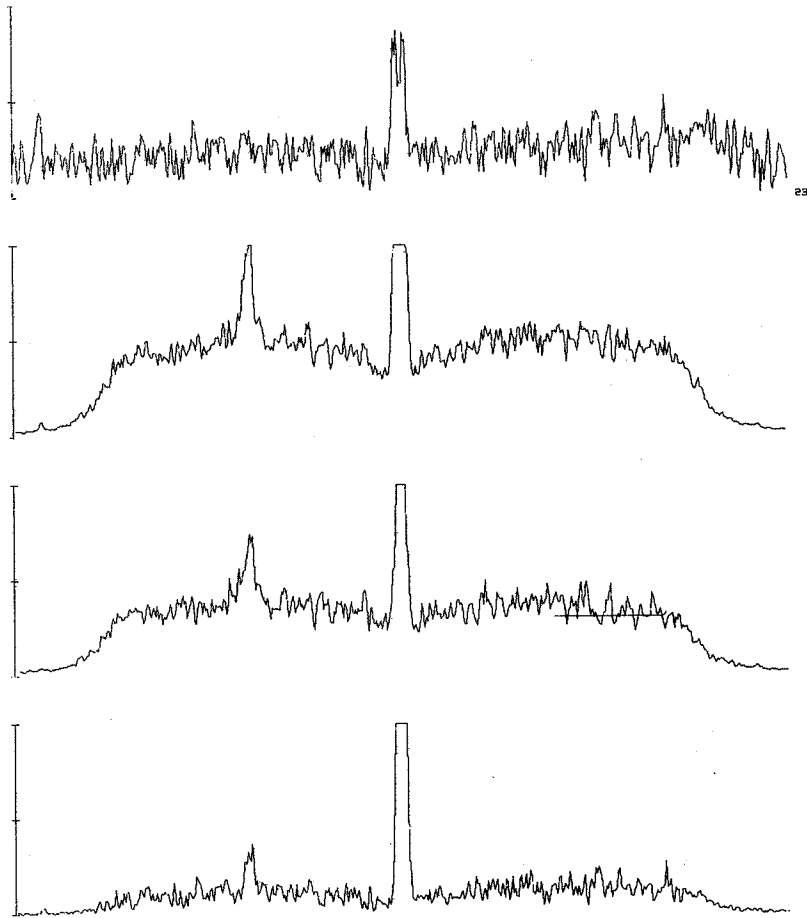
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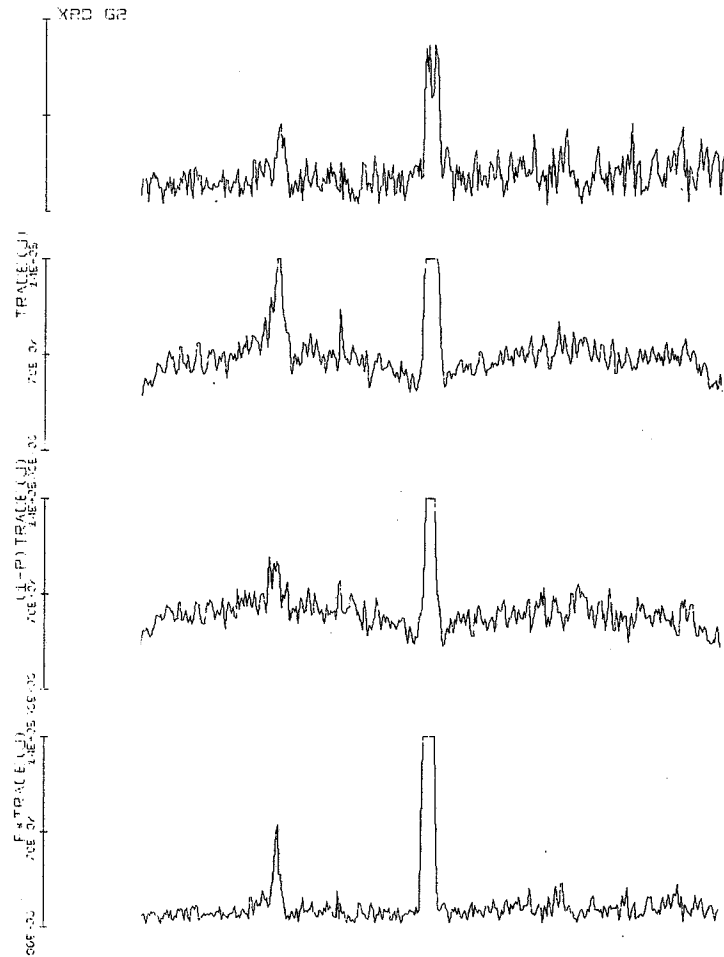
22



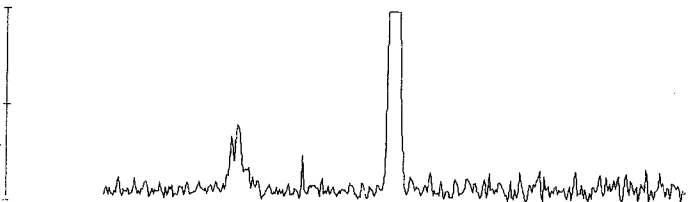
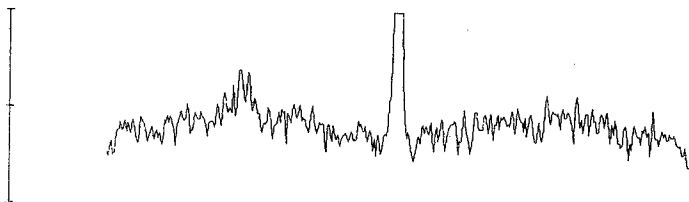
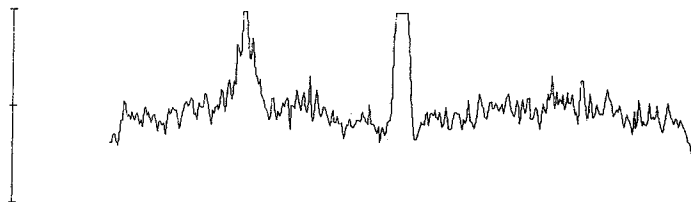
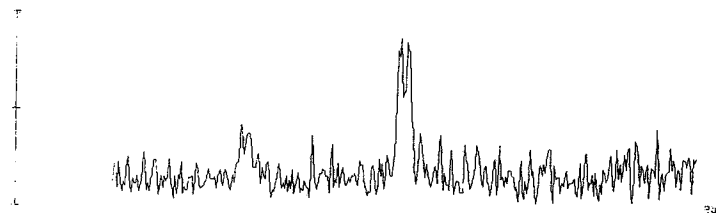
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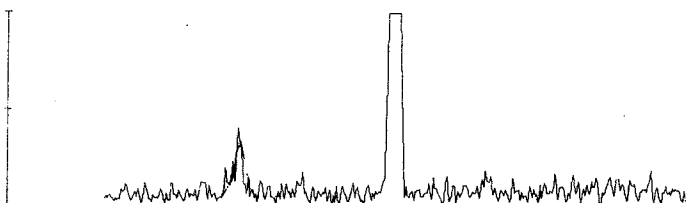
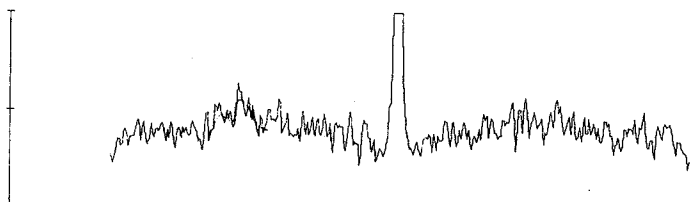
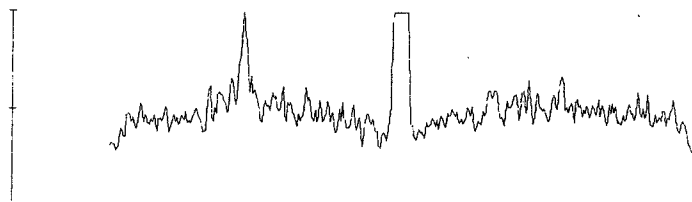
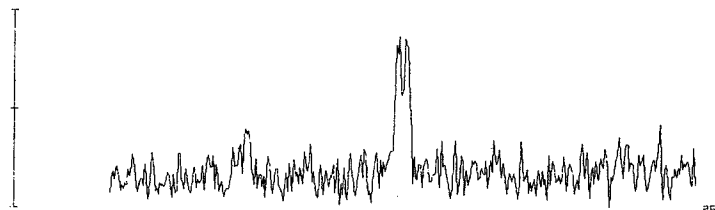
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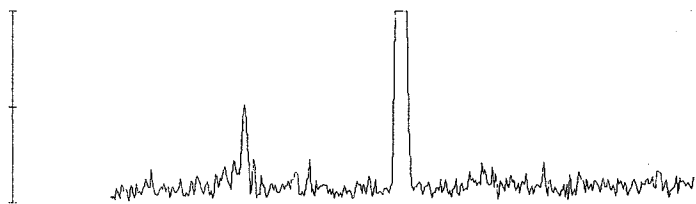
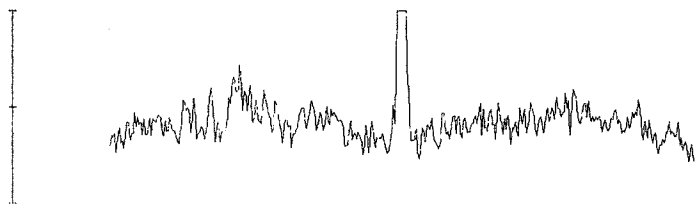
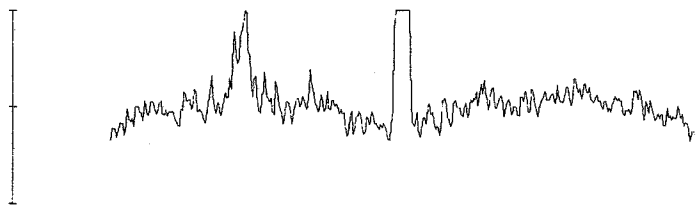
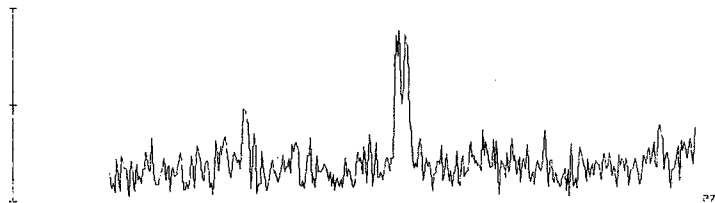
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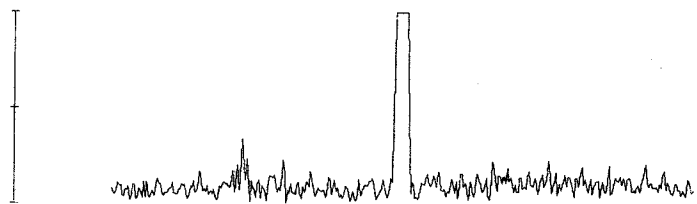
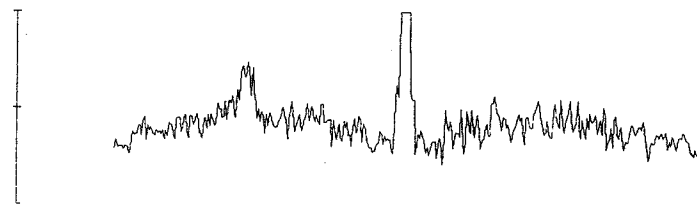
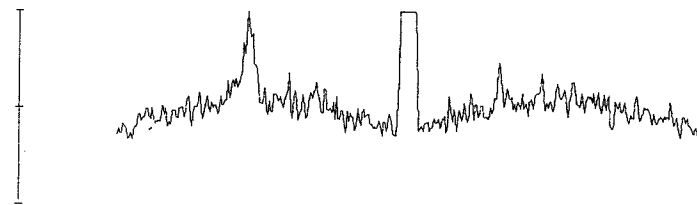
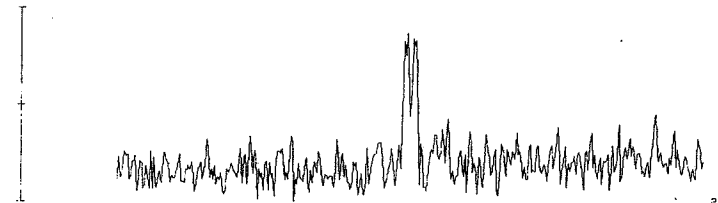
XRD-62/26



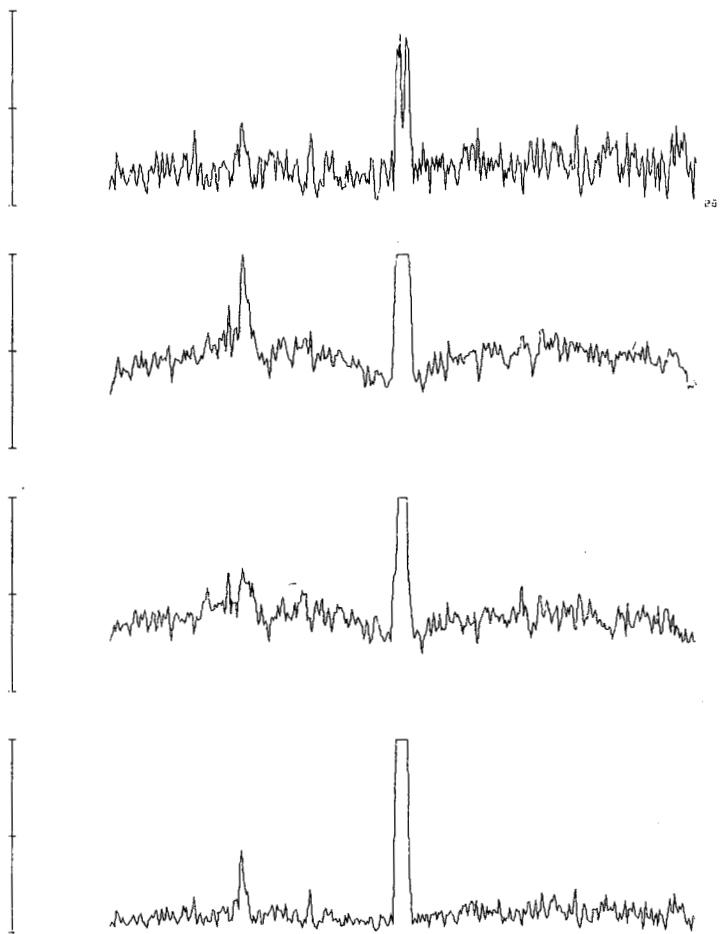
XRD-62/27



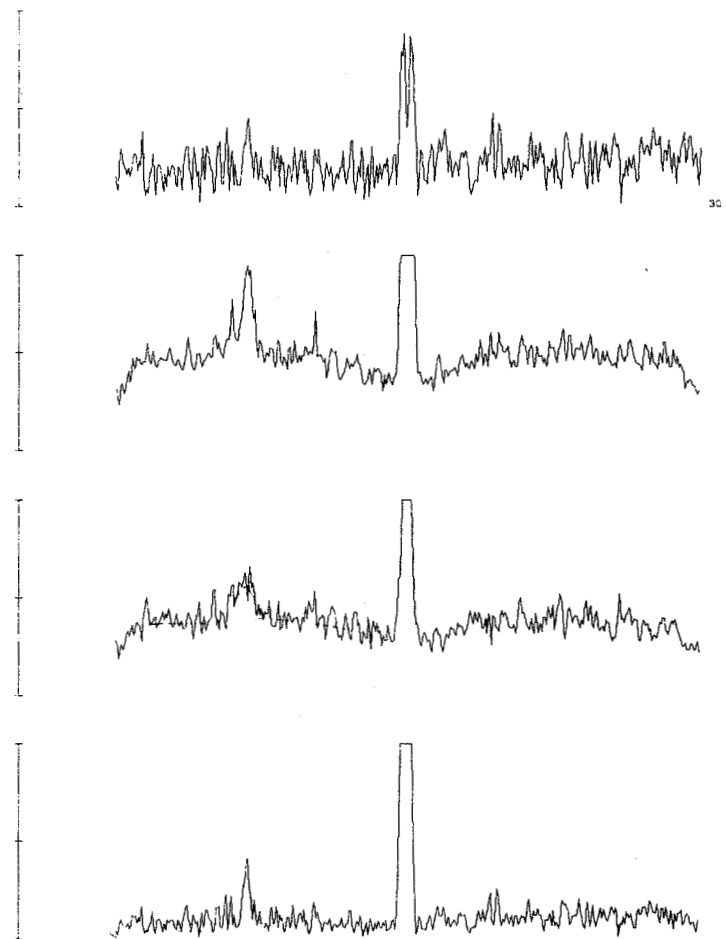
XRD-62/28



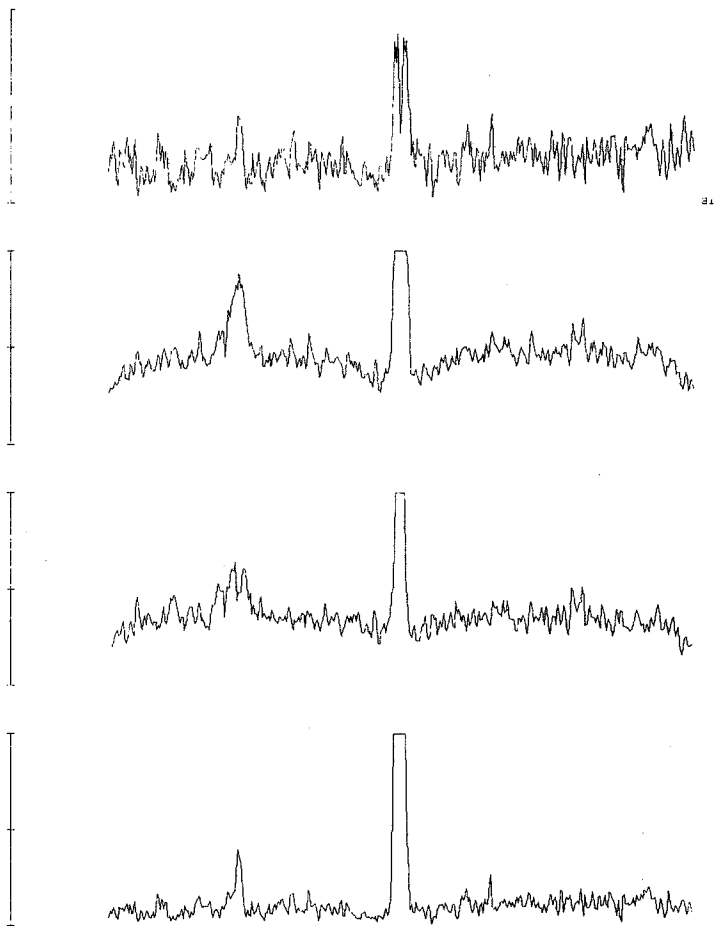
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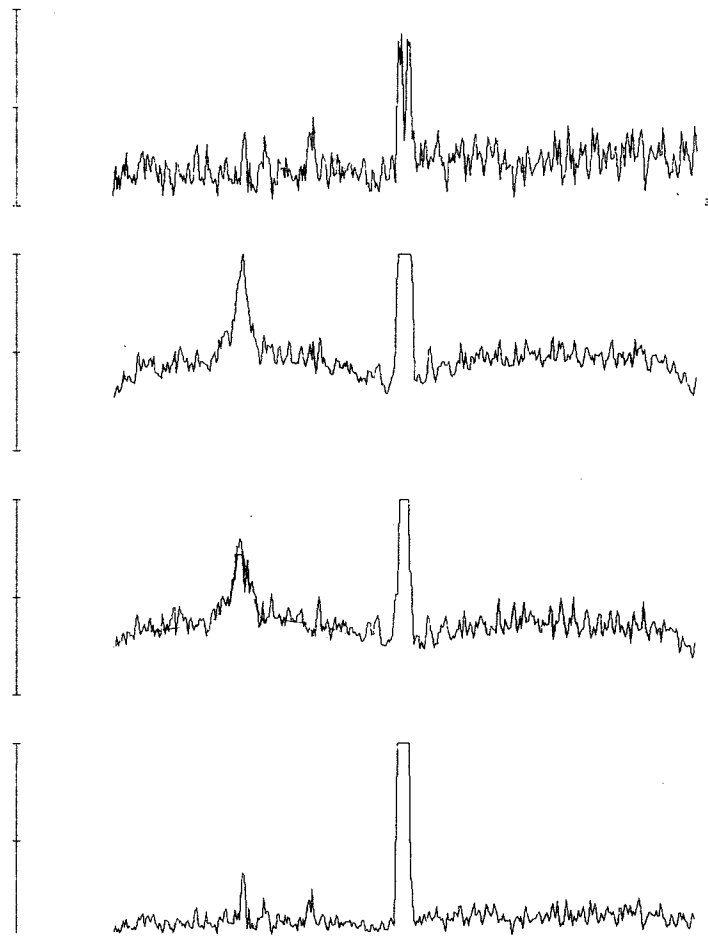
XRD-62/30



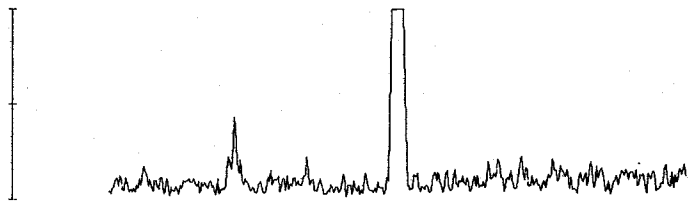
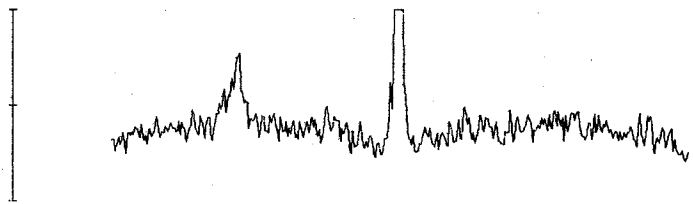
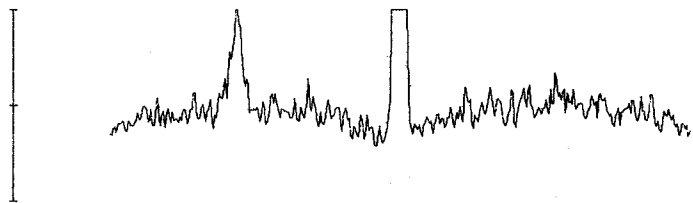
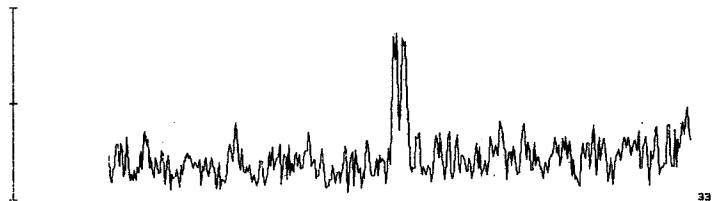
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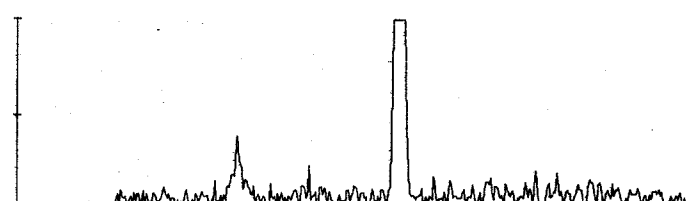
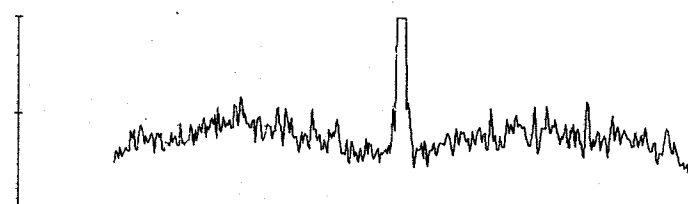
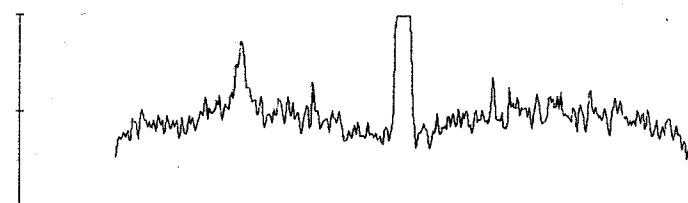
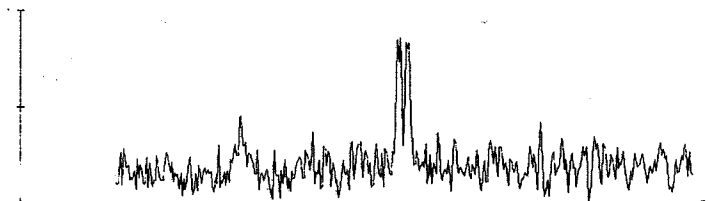
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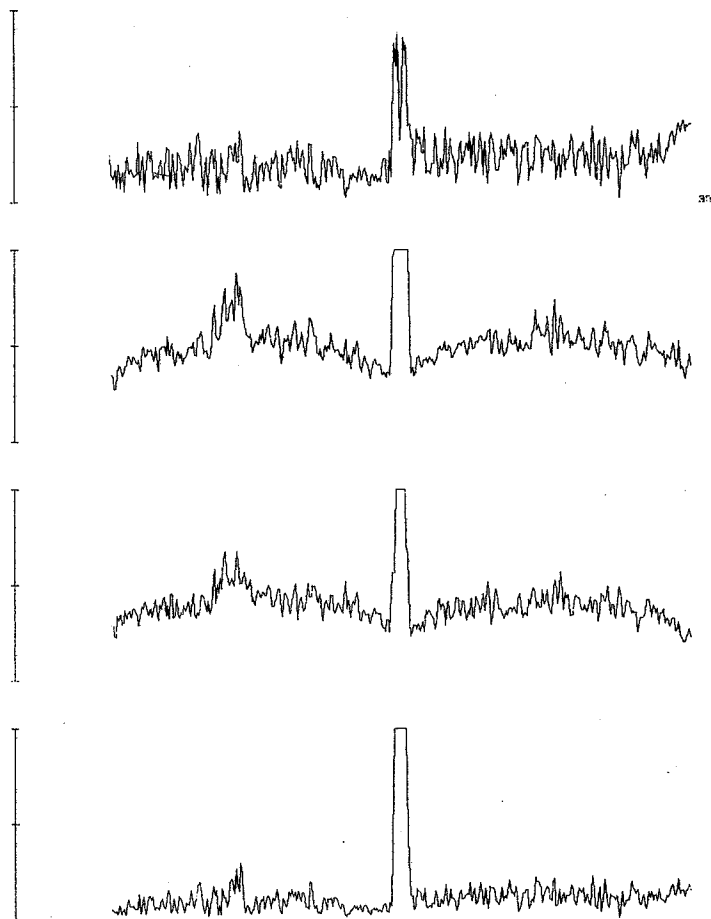
XRD-62/33



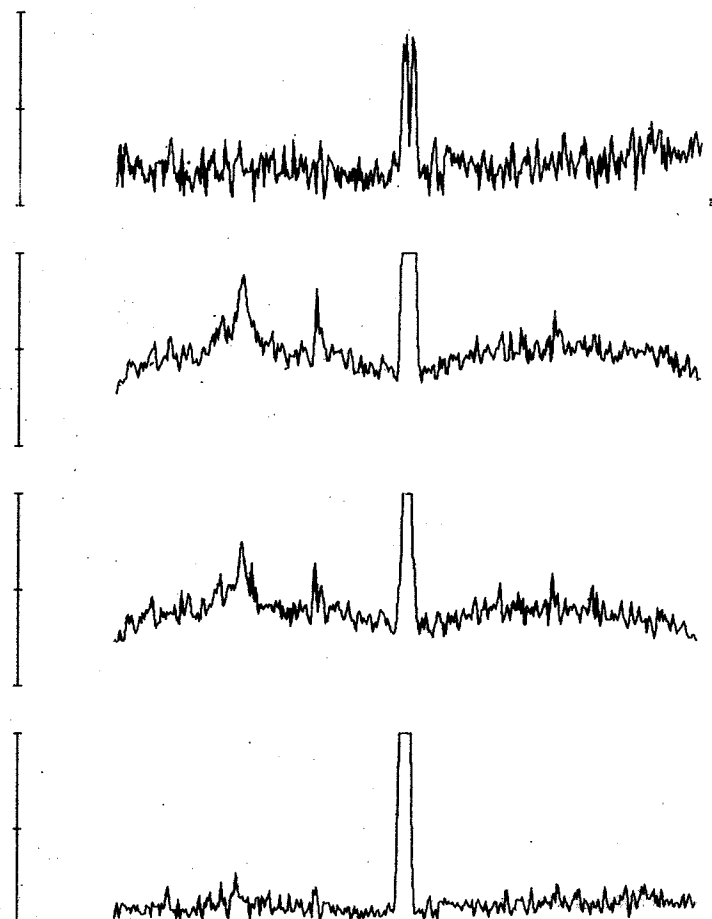
XRD-62/34



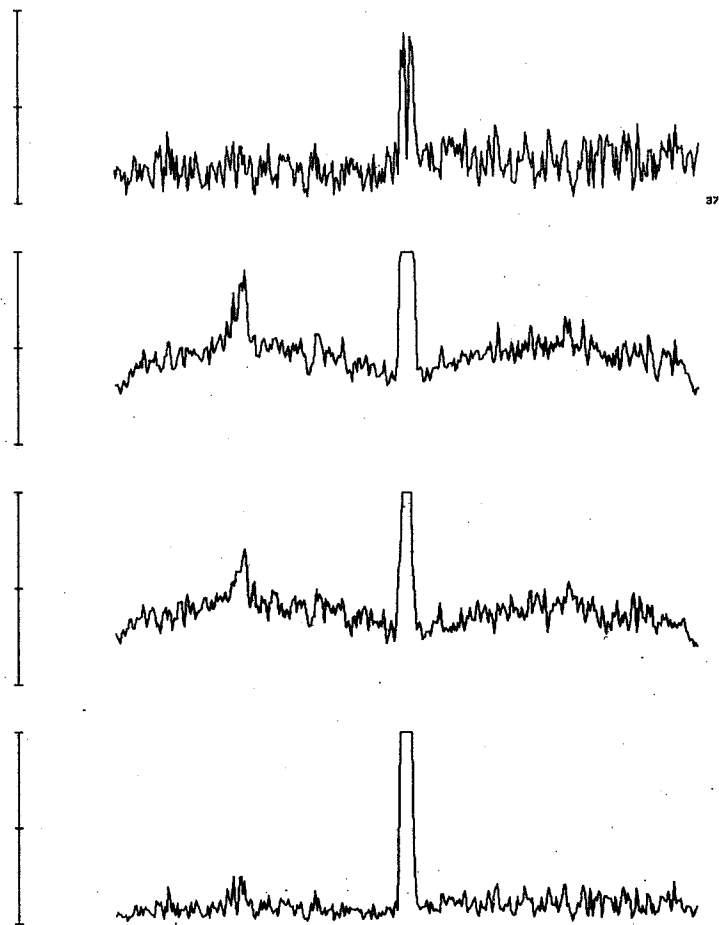
XRD-62/35



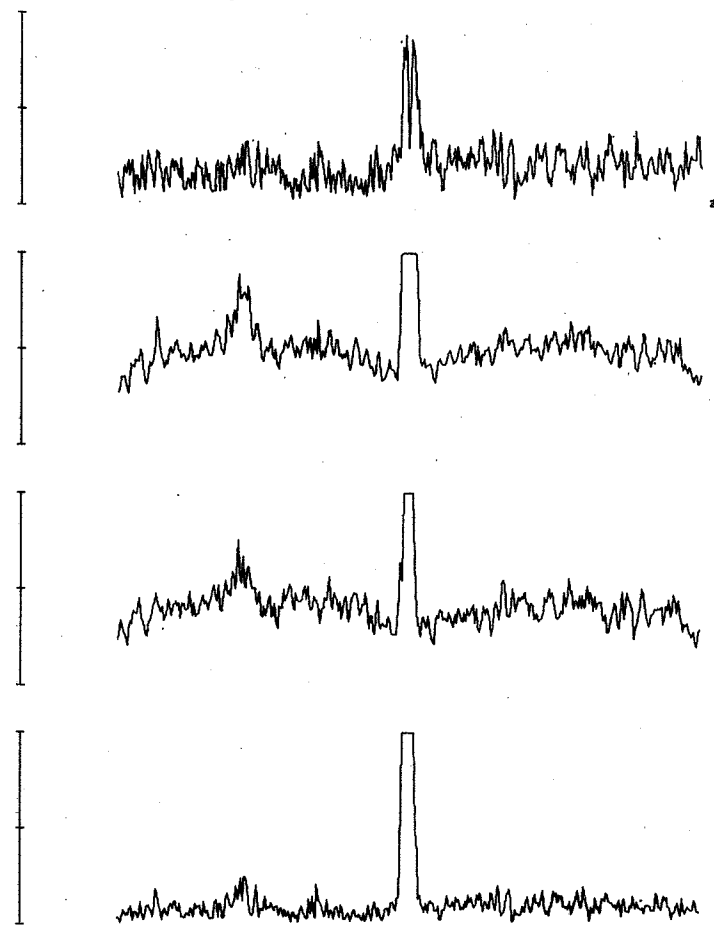
XRD-62/36



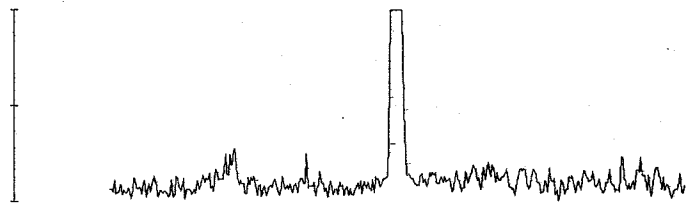
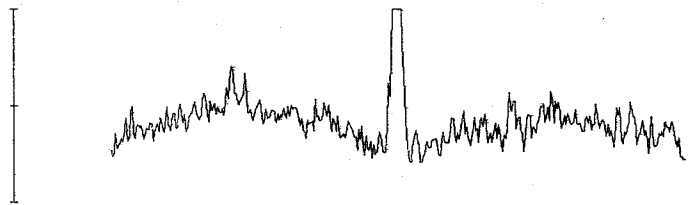
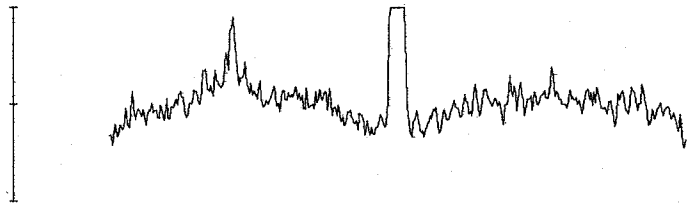
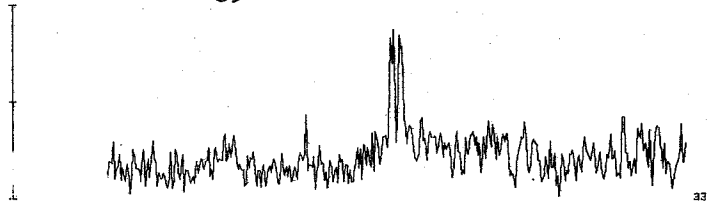
XRD-62/37



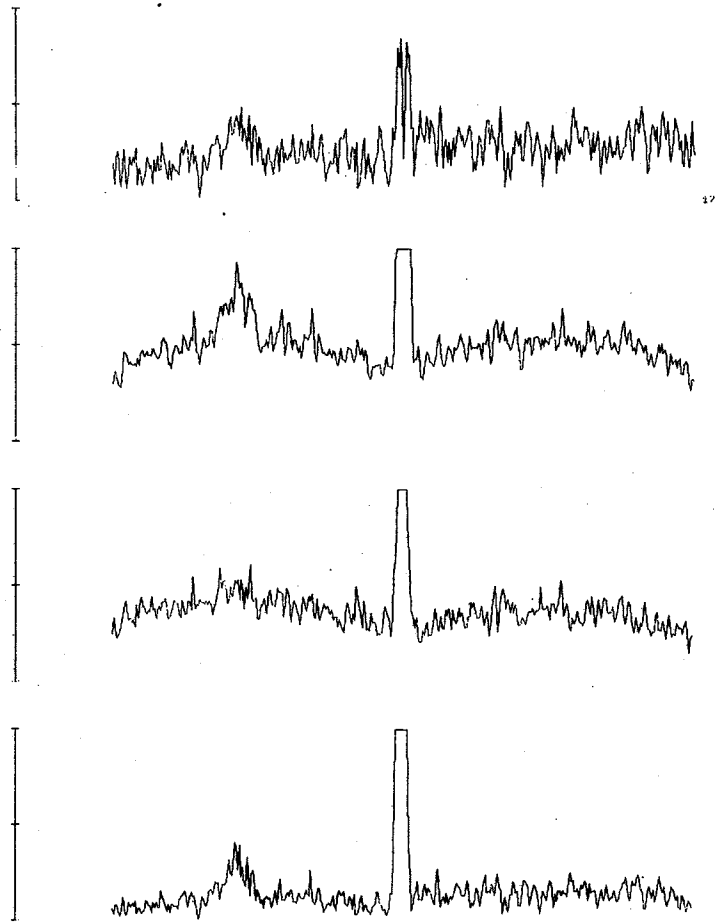
XRD-62/38



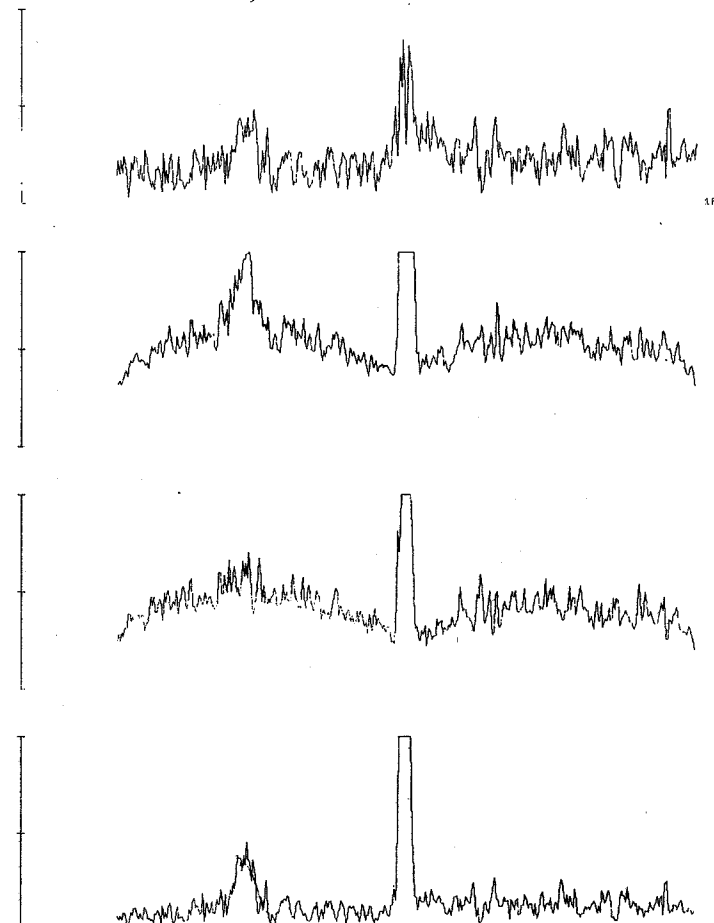
XRD-62/39



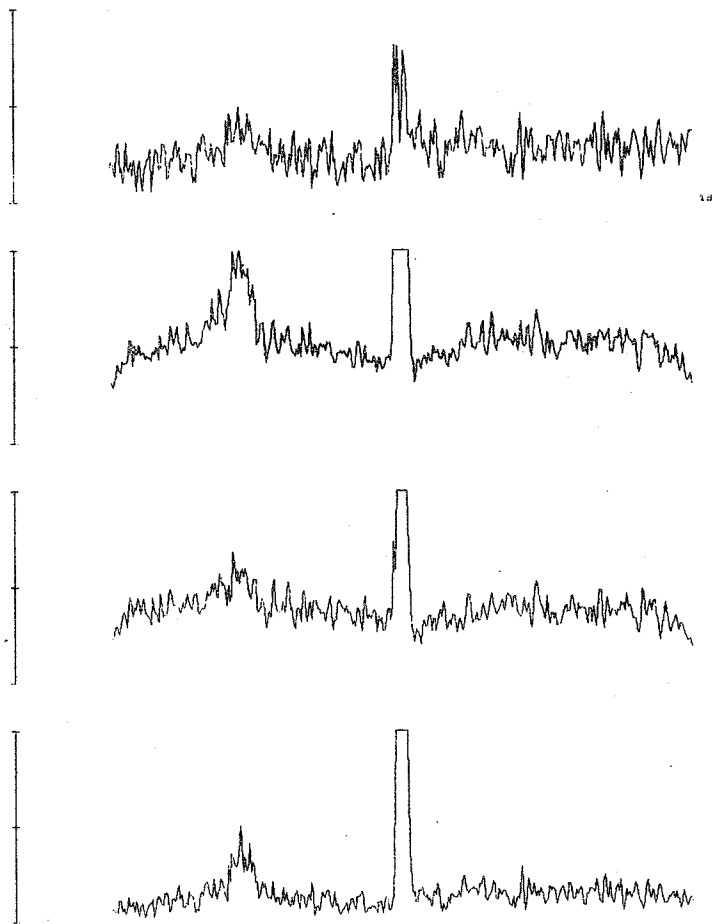
XRD-63/17



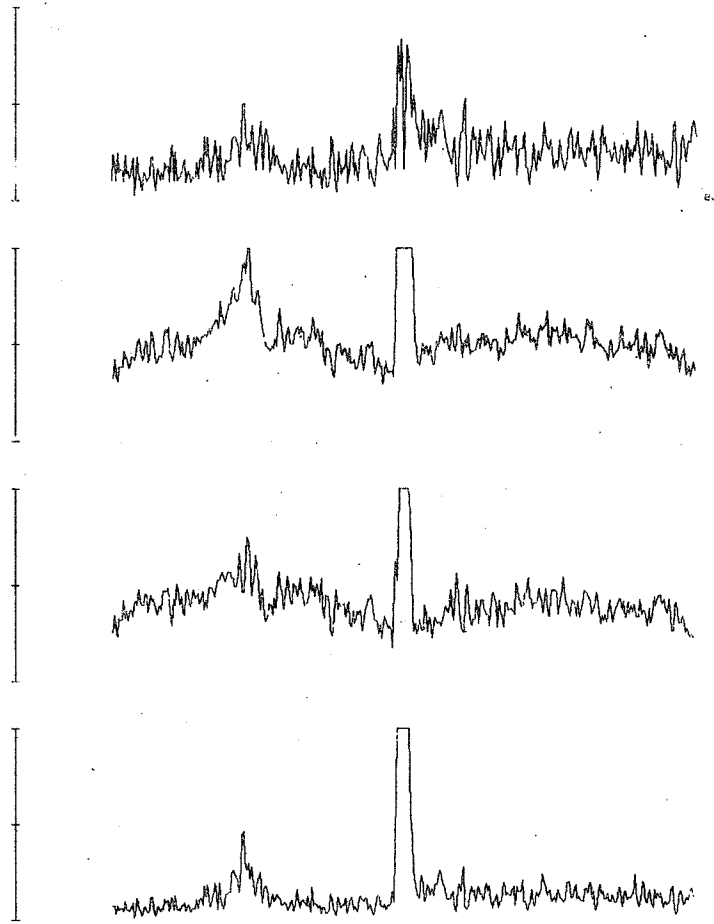
XRD-63/18



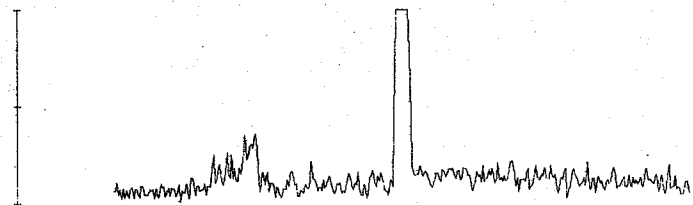
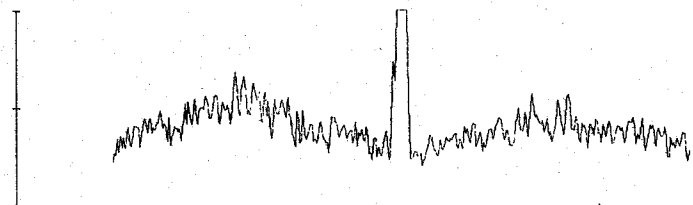
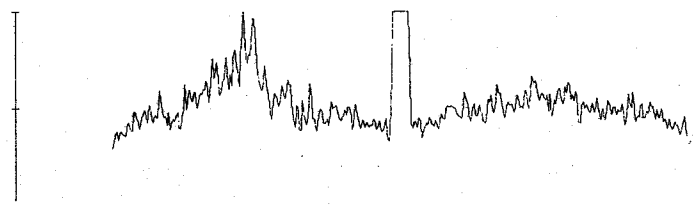
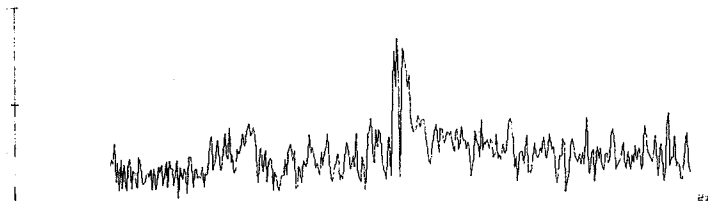
XRD-63/19



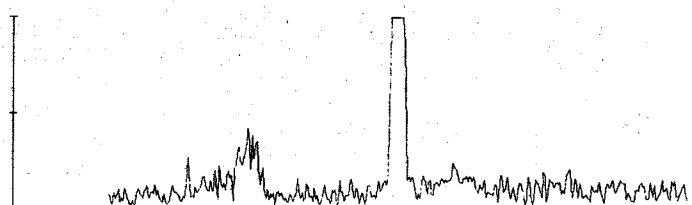
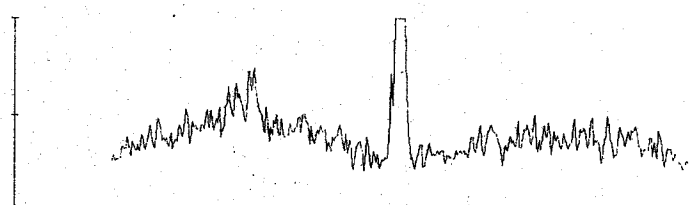
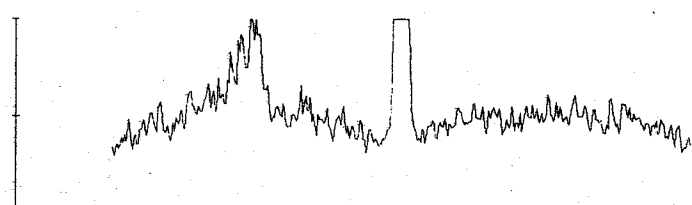
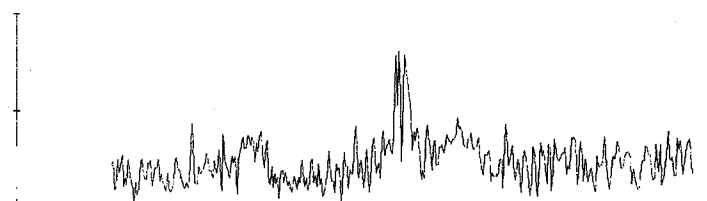
XRD-63/20



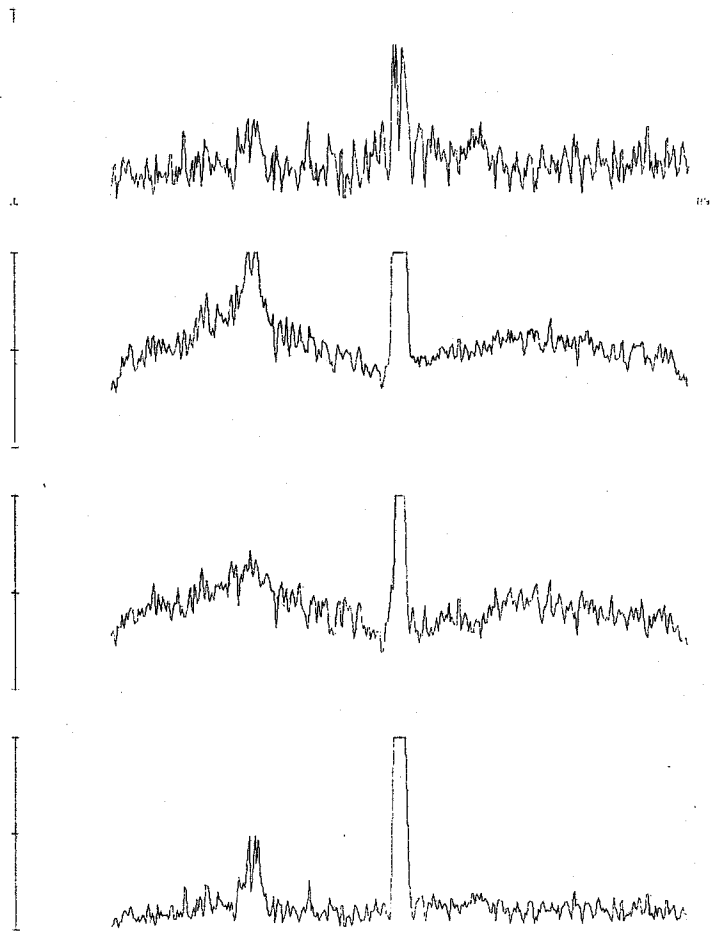
XRD-63/21



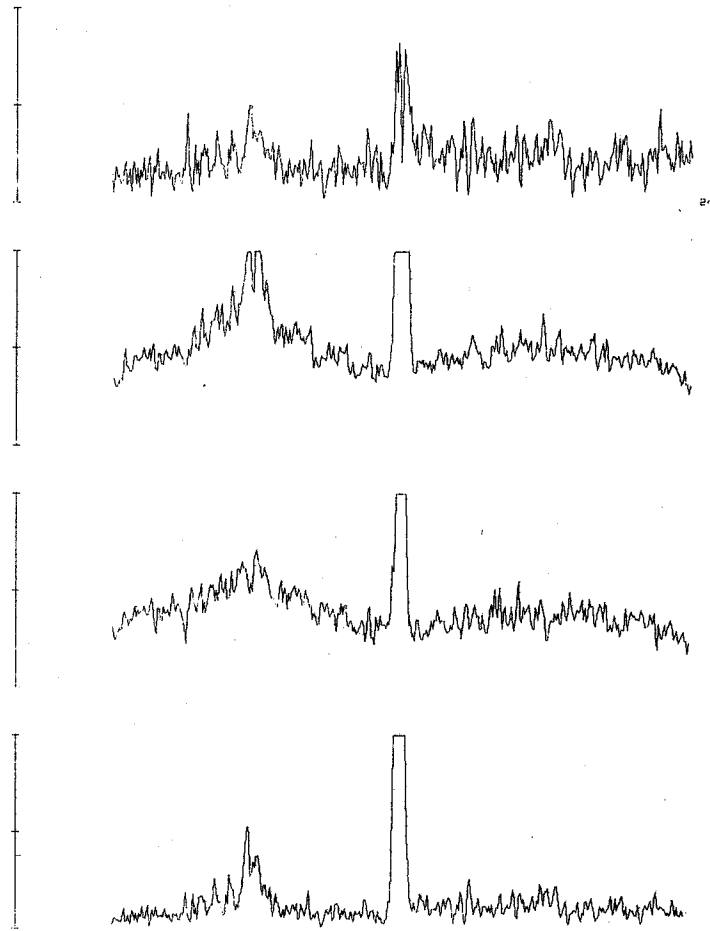
XRD-63/22



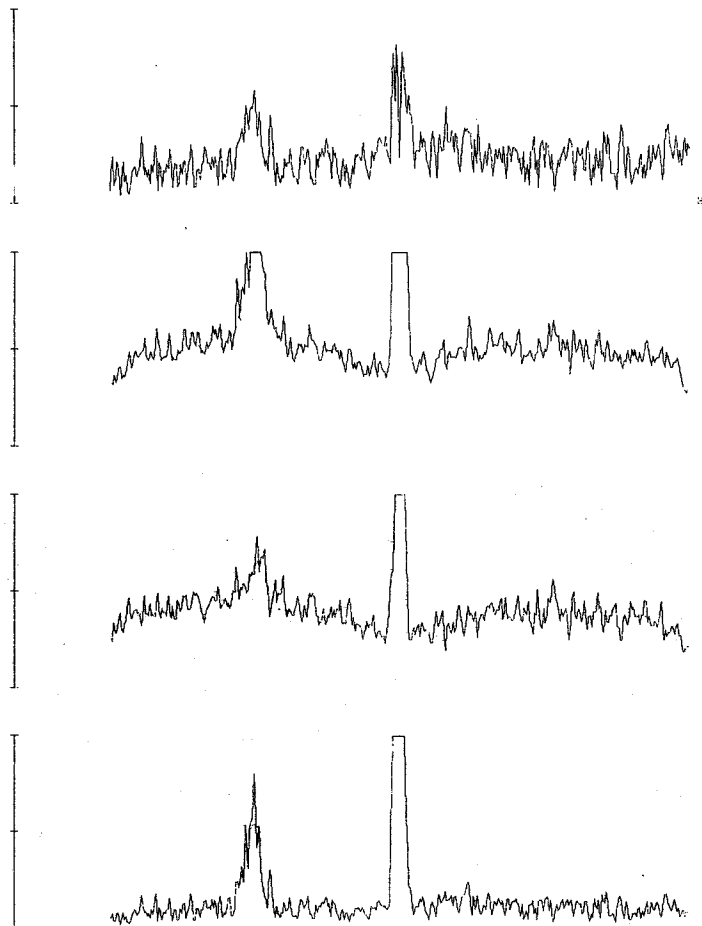
XRD-63/23



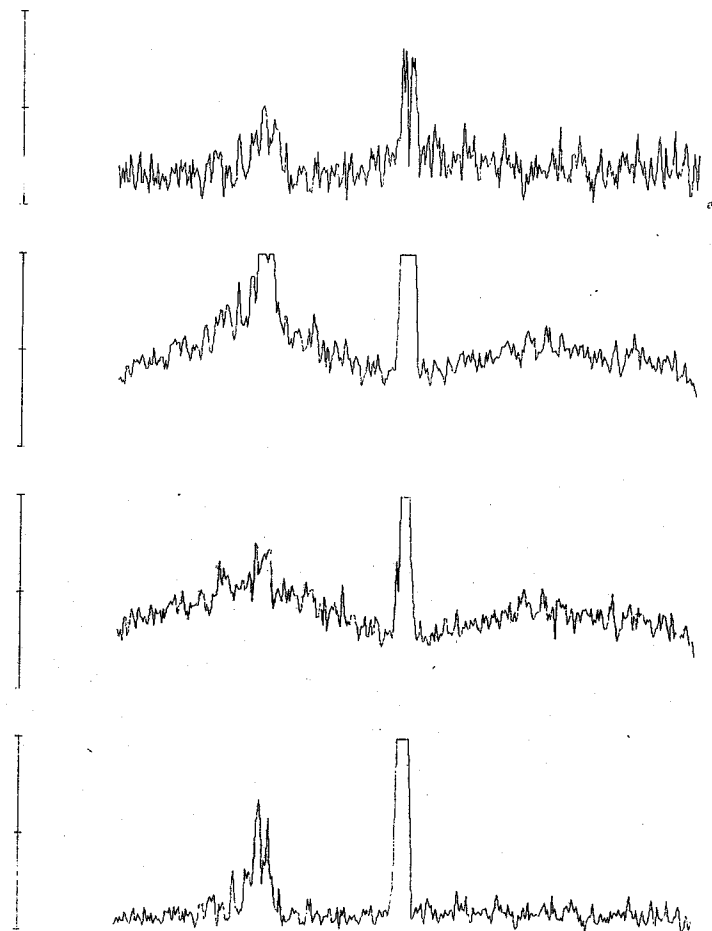
XRD-63/24



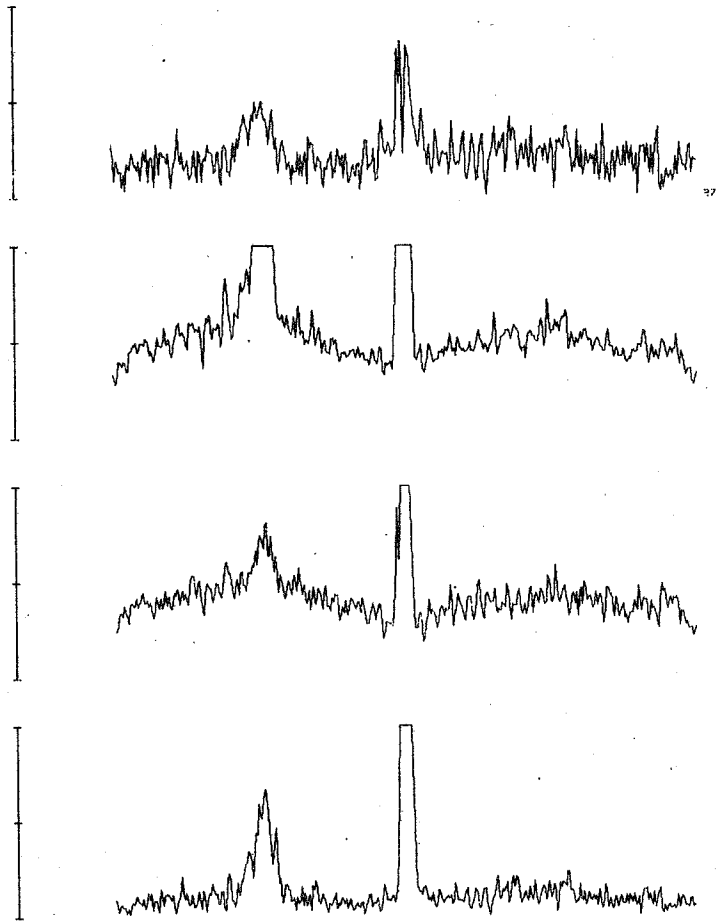
XRD-63/25



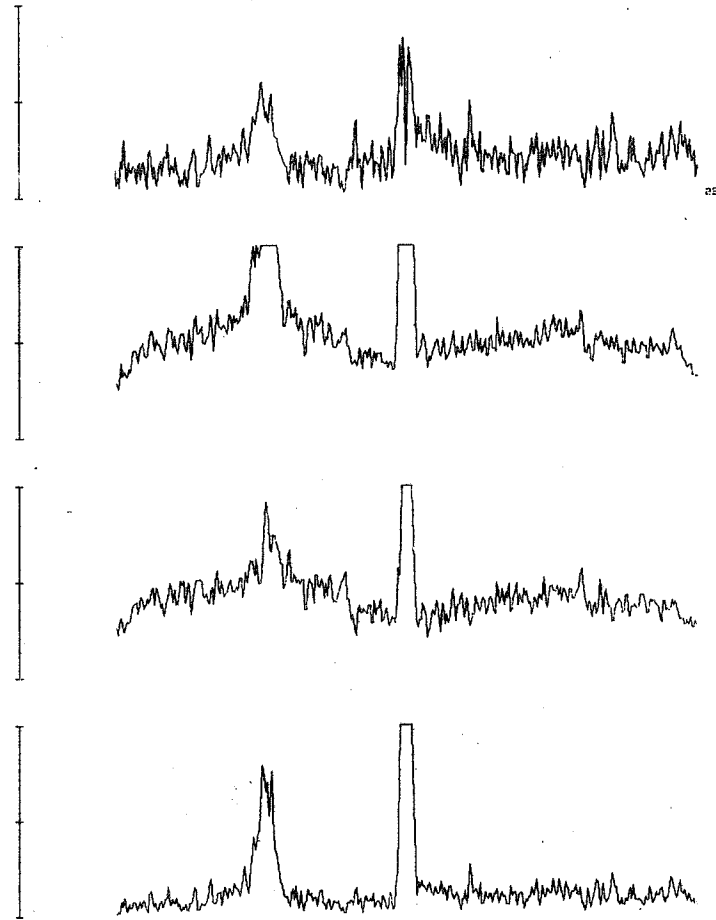
XRD-63/26



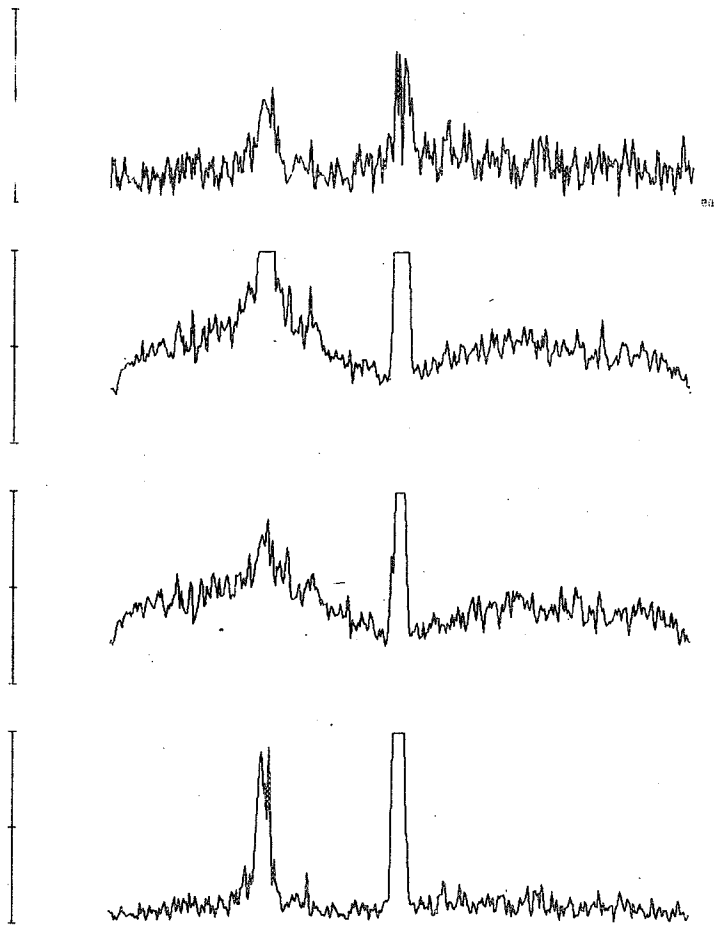
XRD-63/27



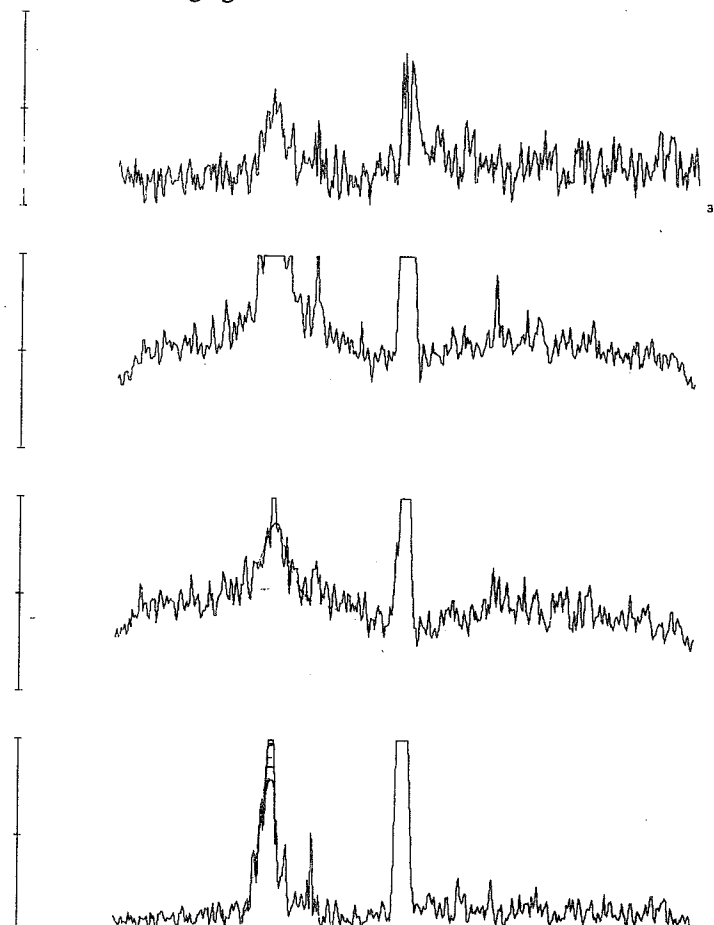
XRD-63/28



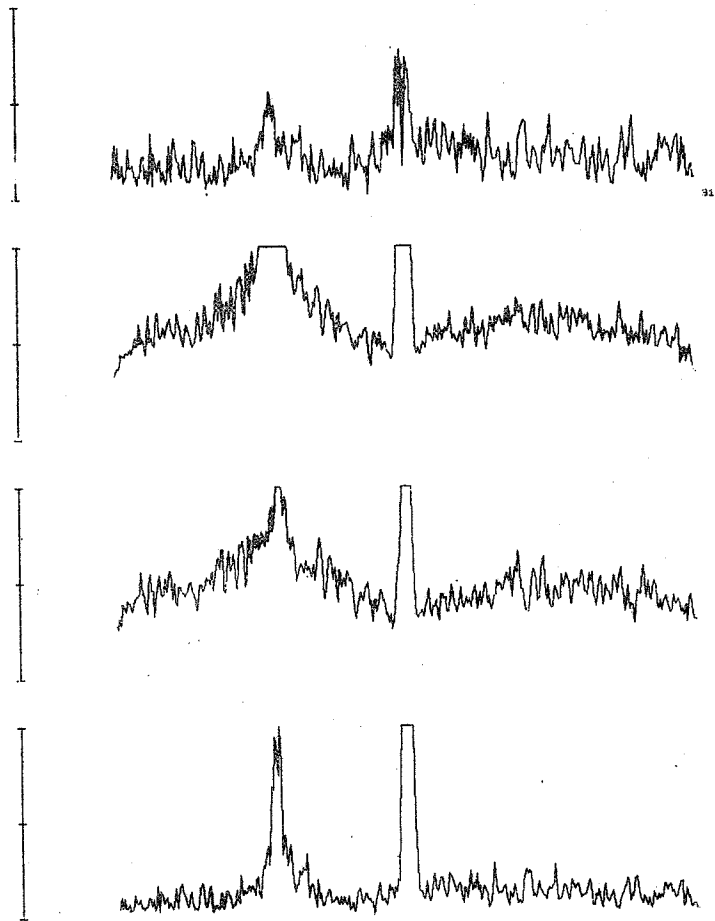
XRD-63/29



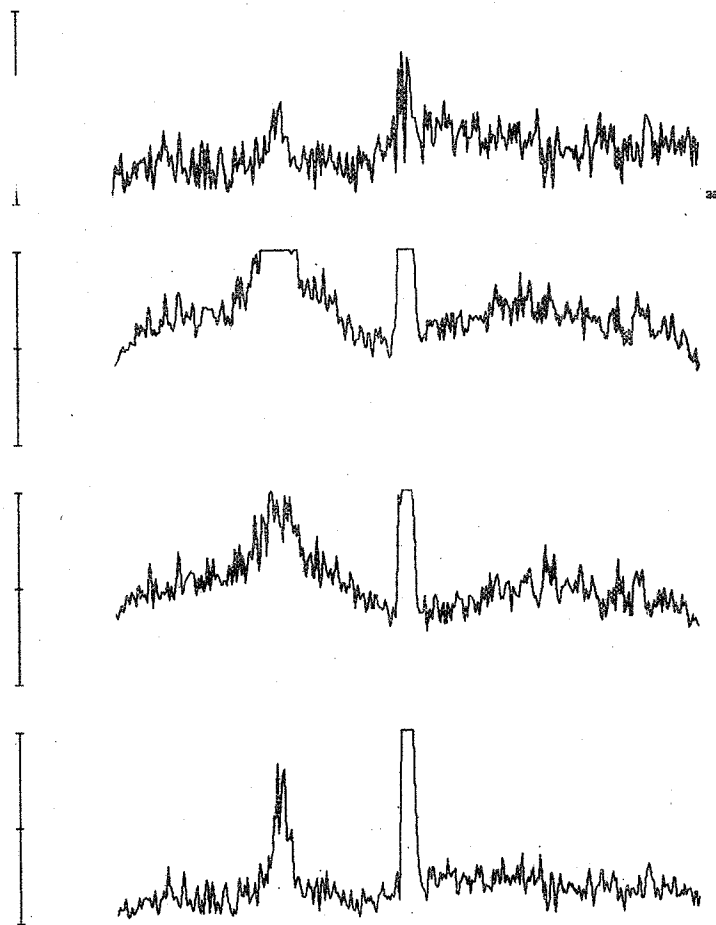
XRD-63/30



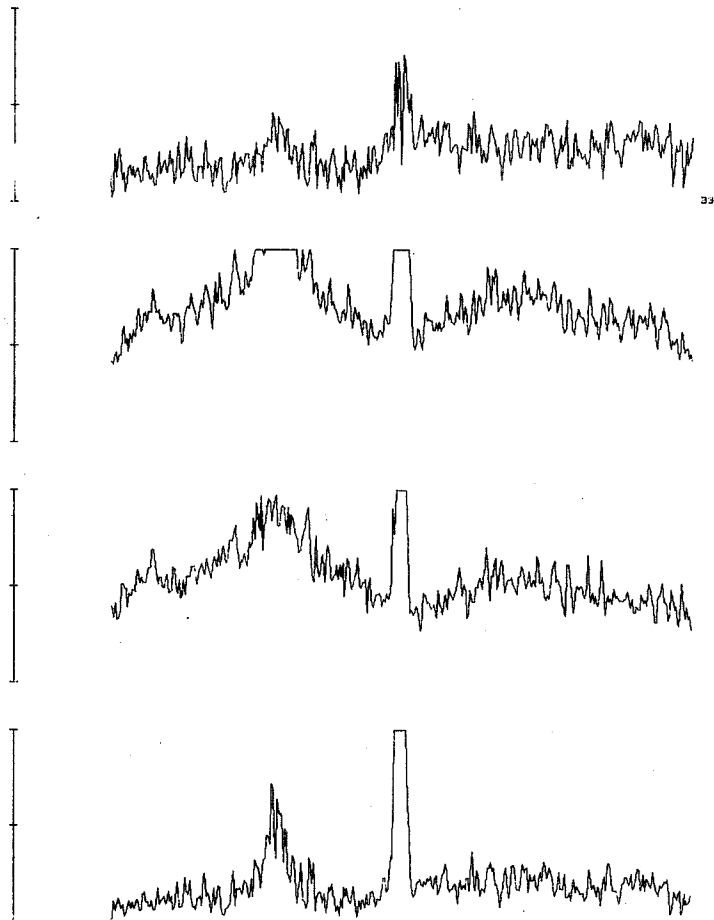
XRD-63/31



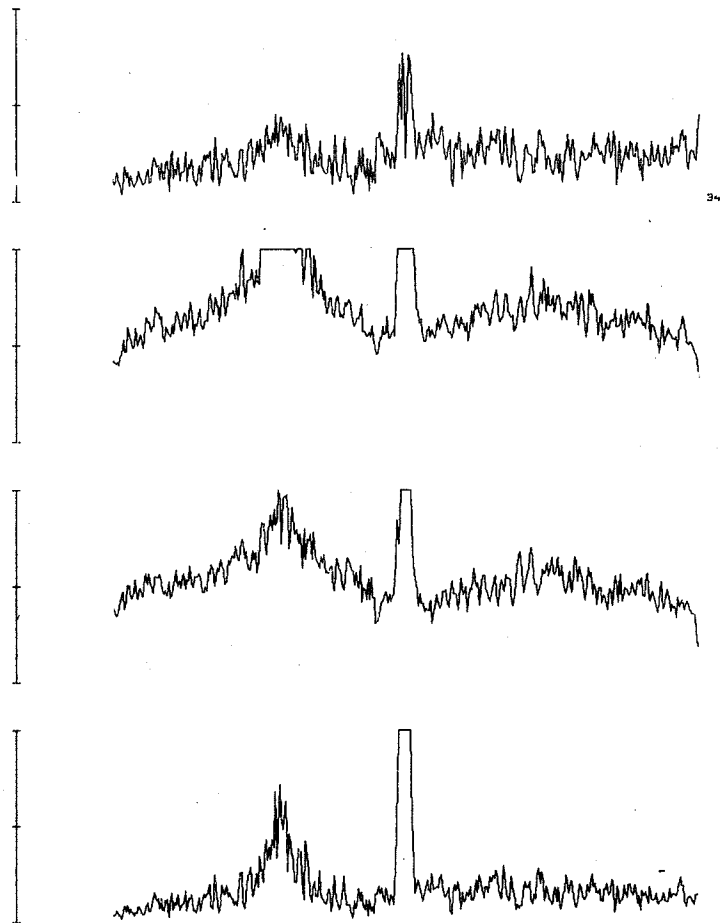
XRD-63/32



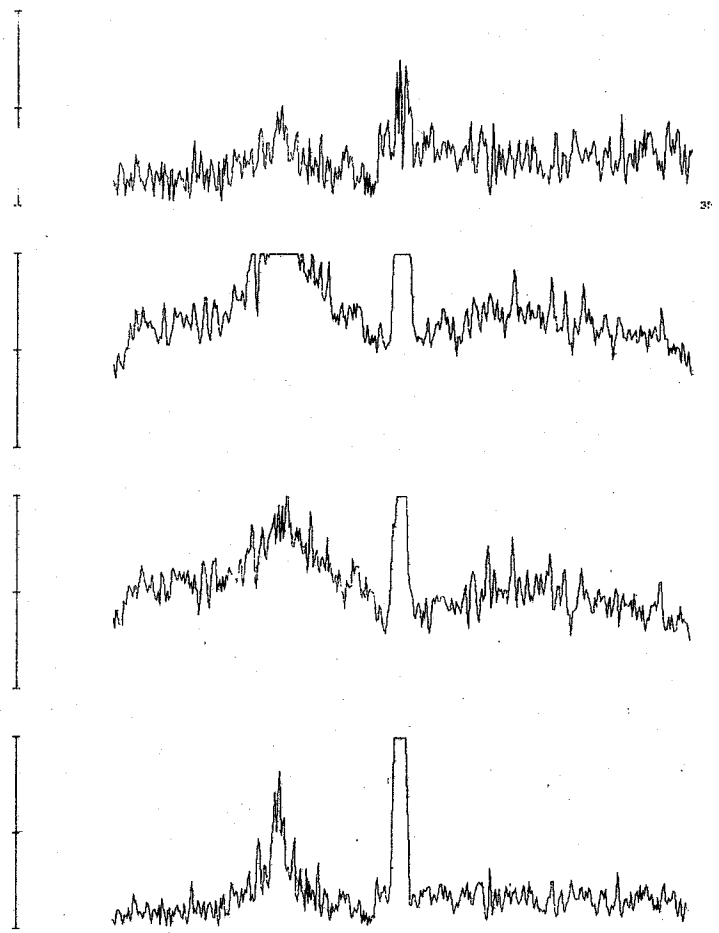
XRD-63/33



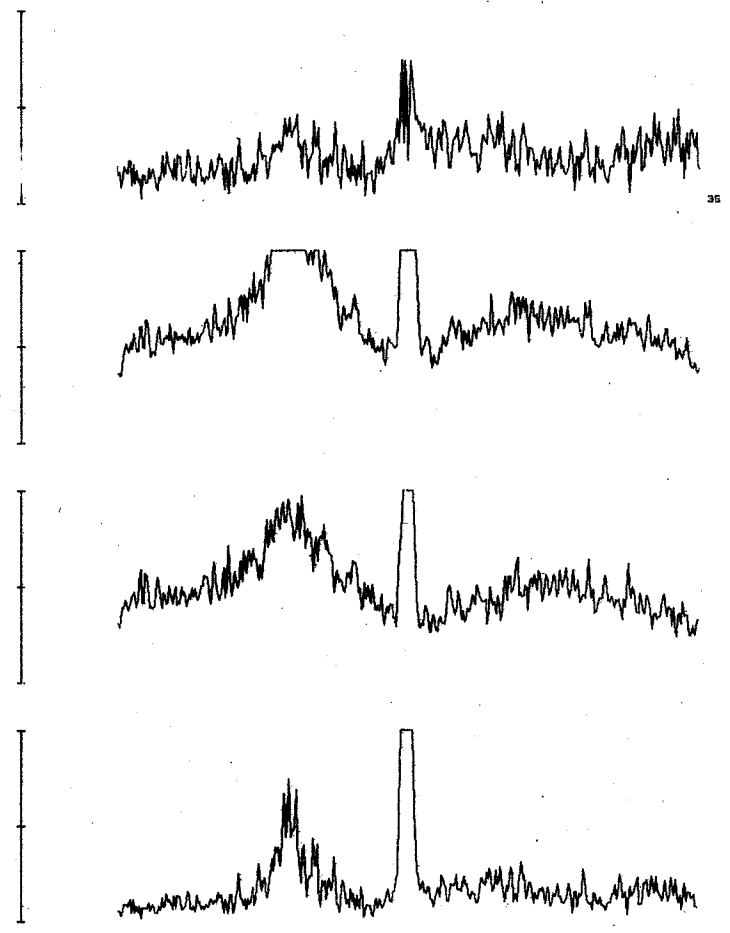
XRD-63/34



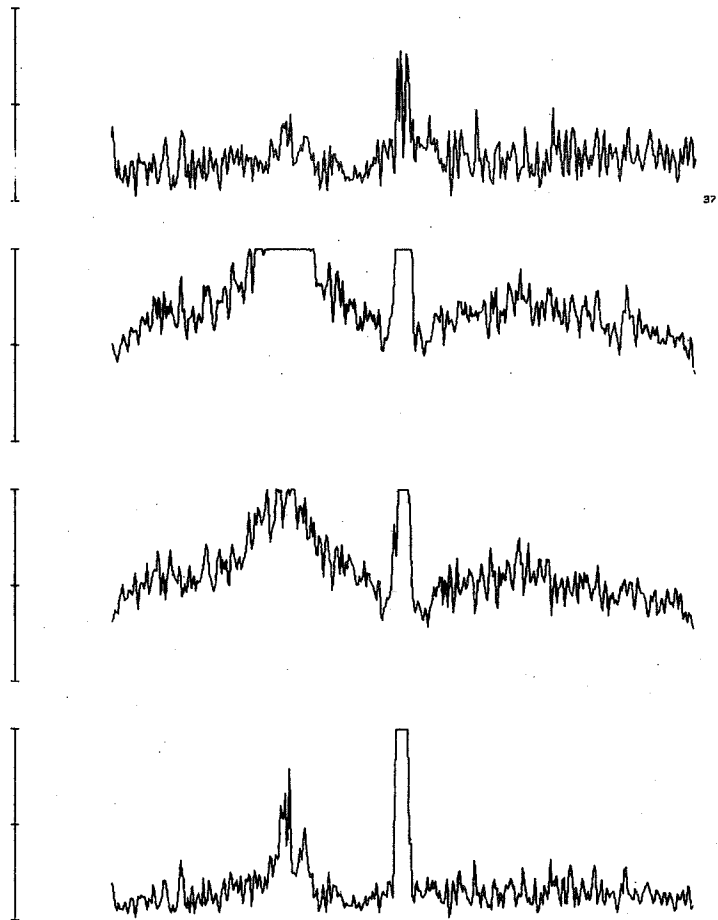
XRD-63/35



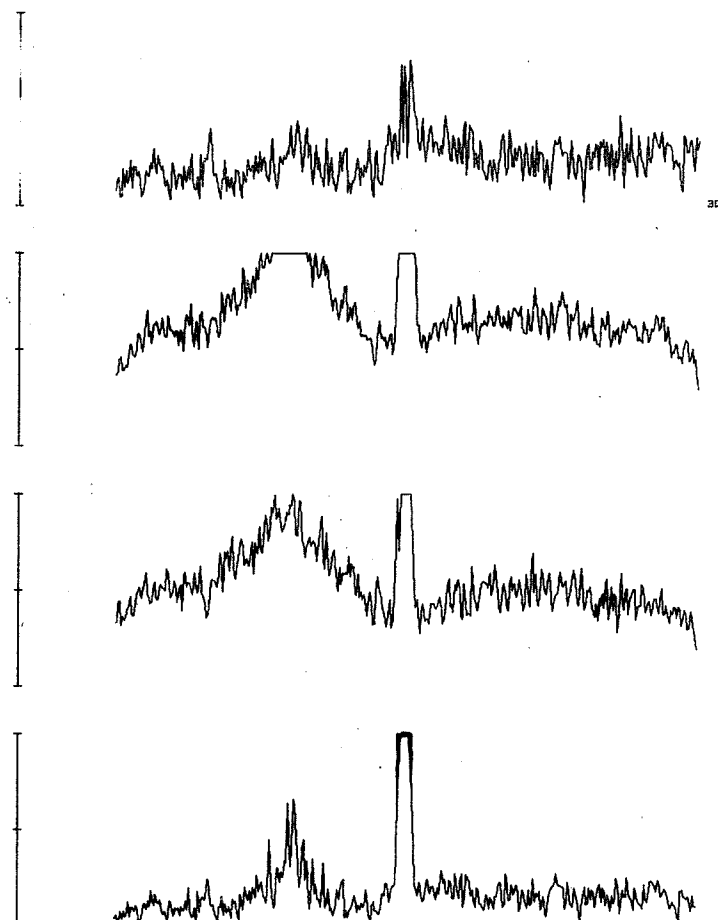
XRD-63/36



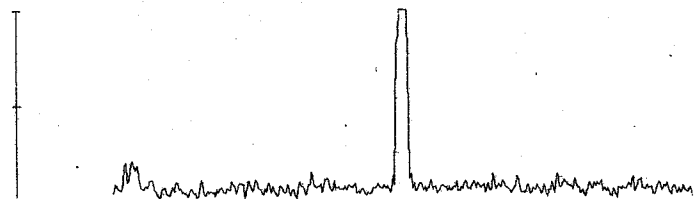
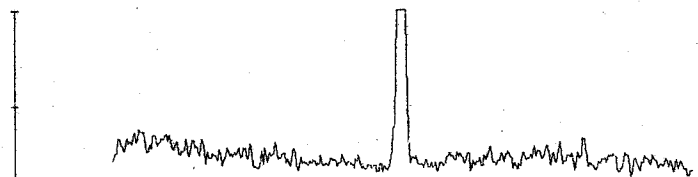
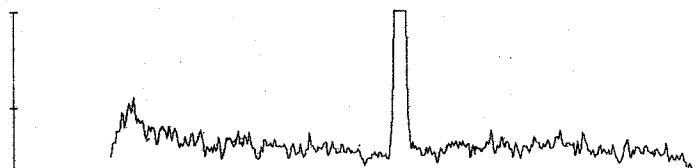
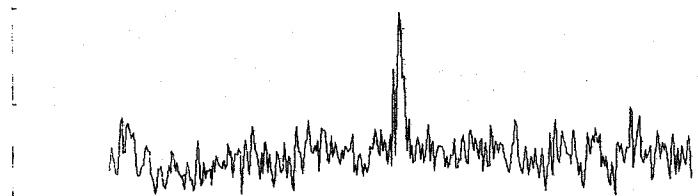
XRD-63/37



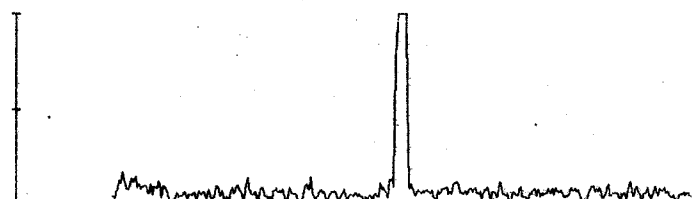
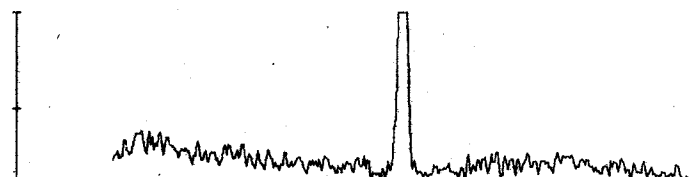
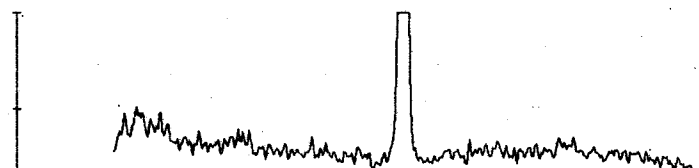
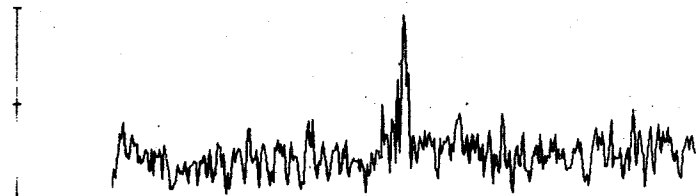
XRD-63/38



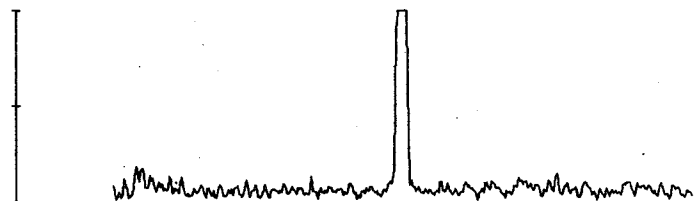
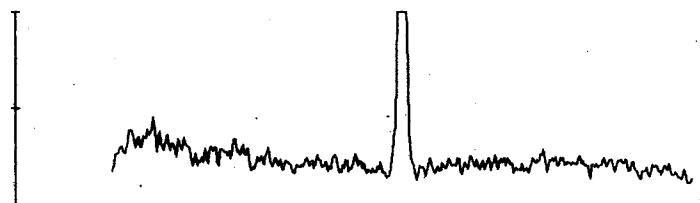
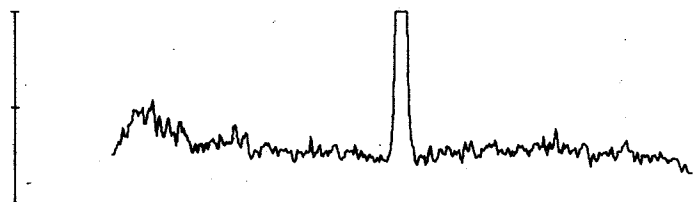
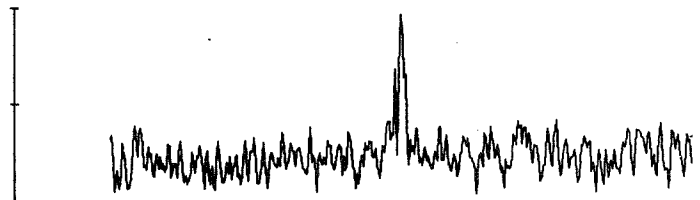
XRD-65/5



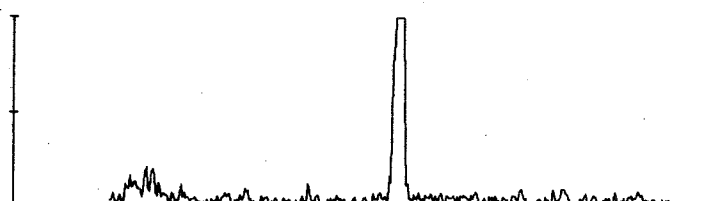
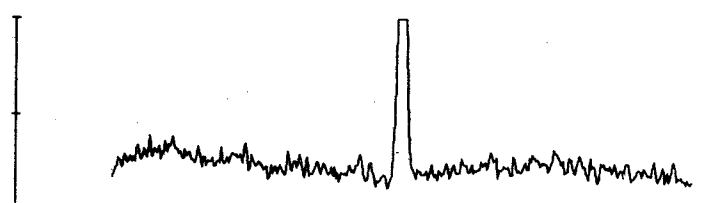
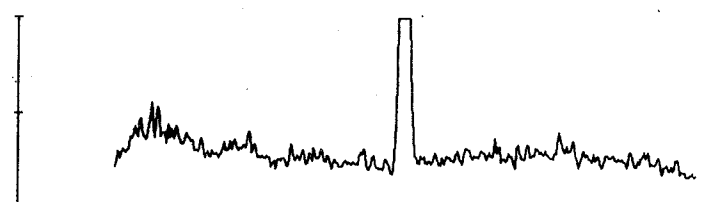
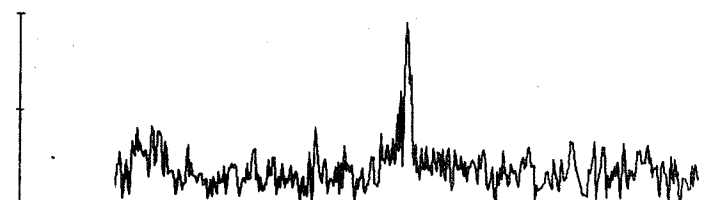
XRD-65/6



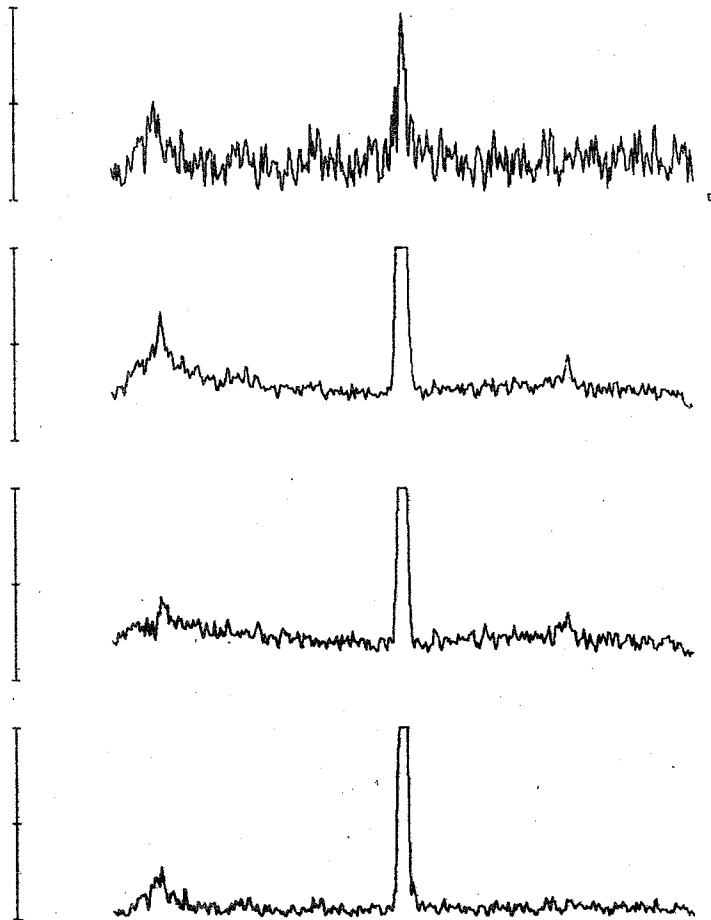
XRD-65/7



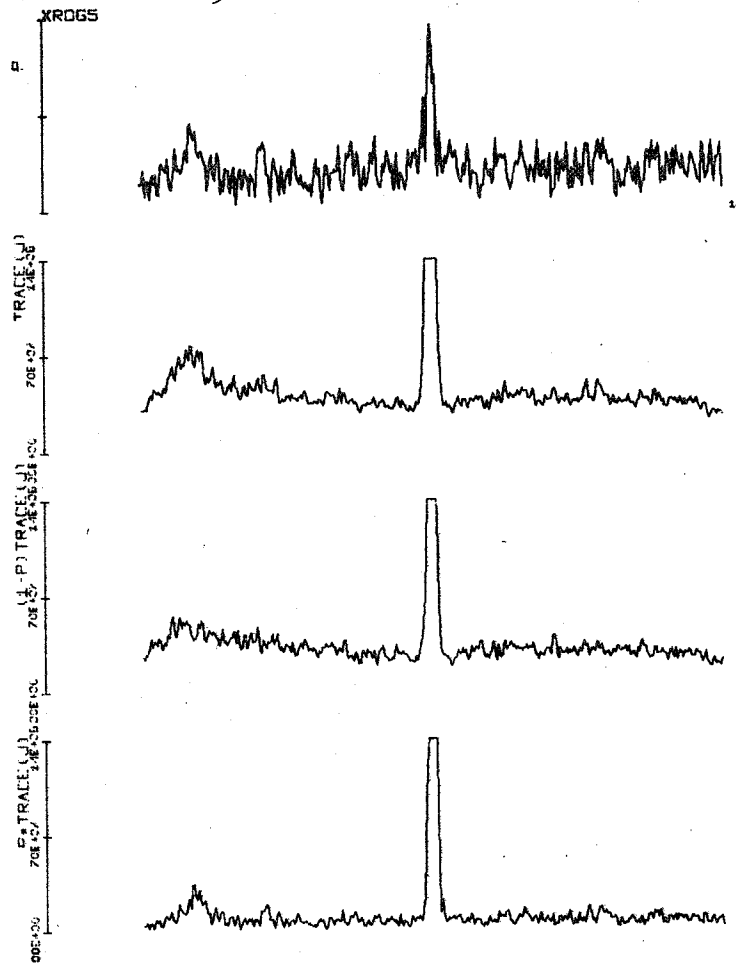
XRD-65/8



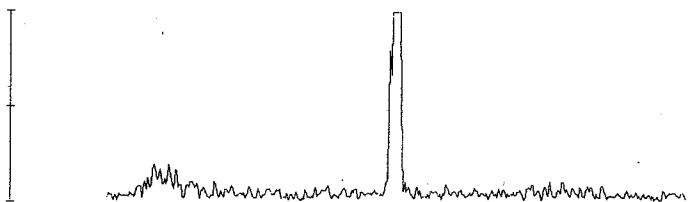
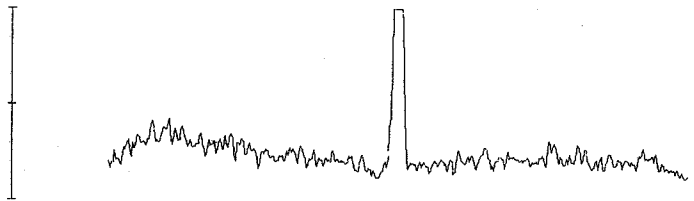
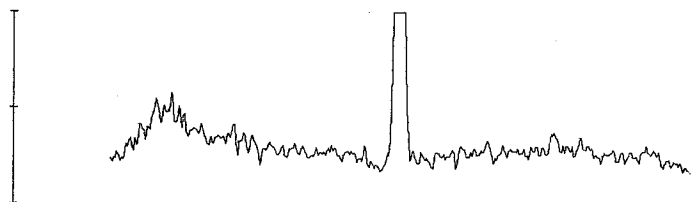
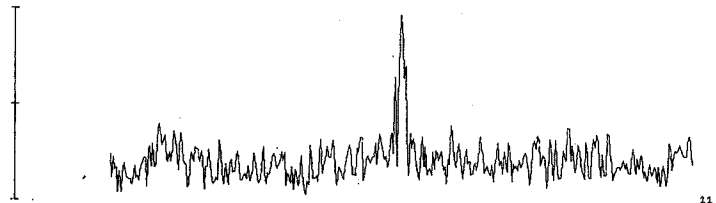
XRD-65/9



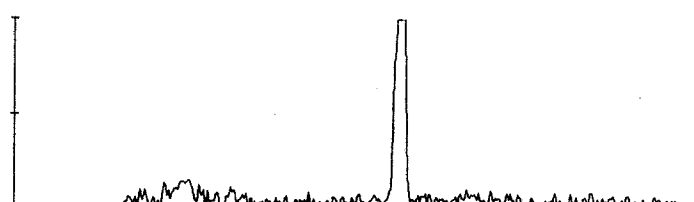
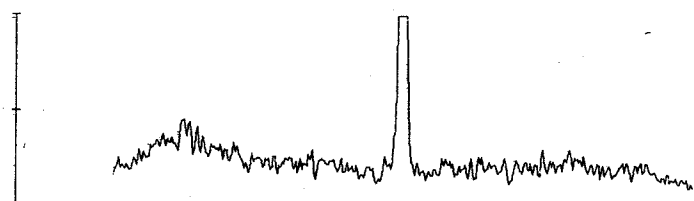
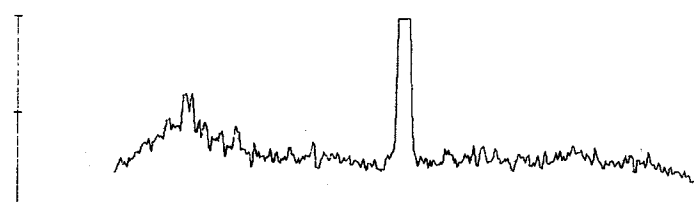
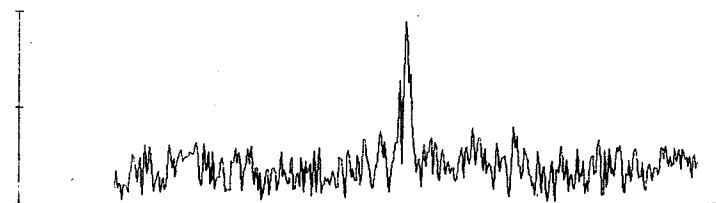
XRD-65/10



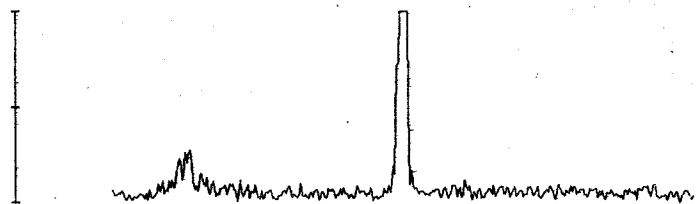
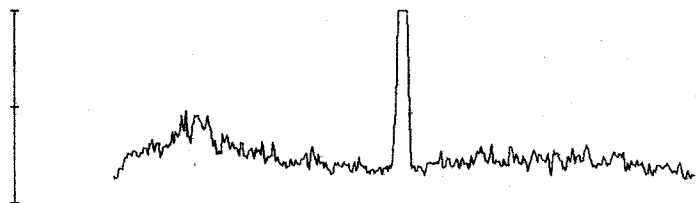
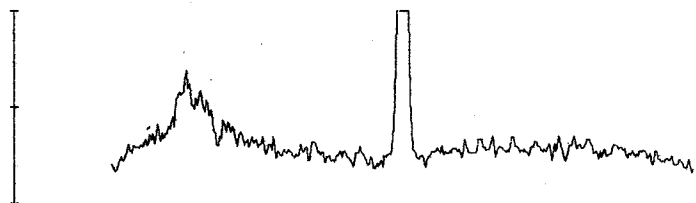
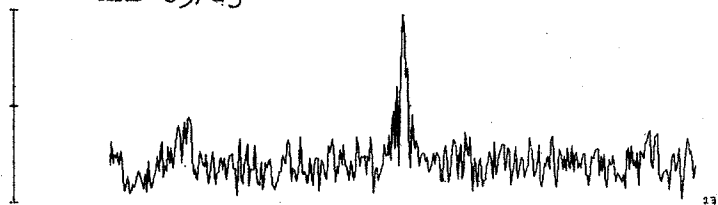
XRD-65/11



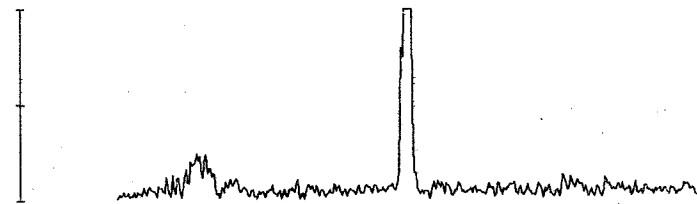
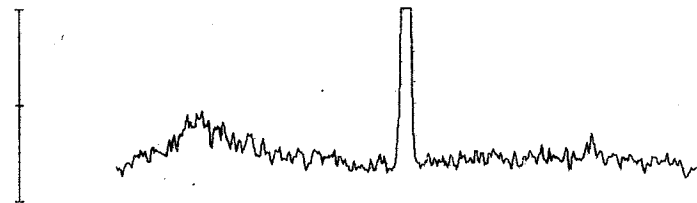
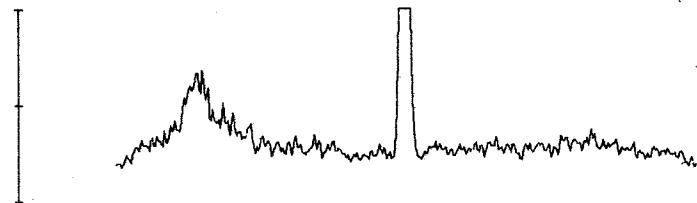
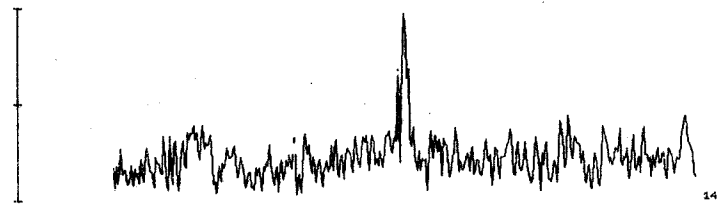
XRD-65/12



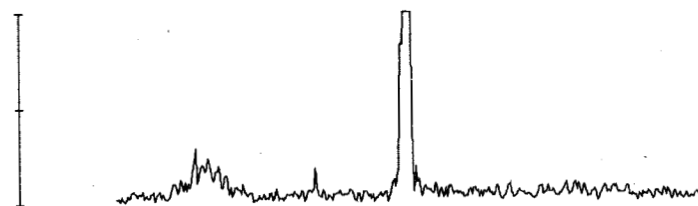
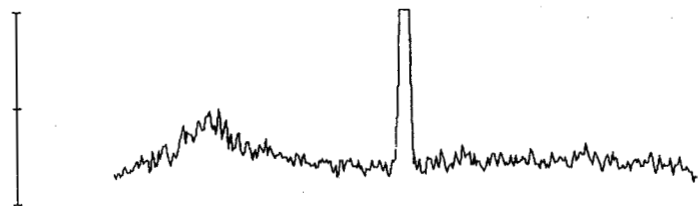
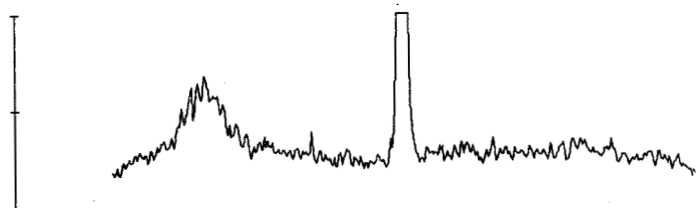
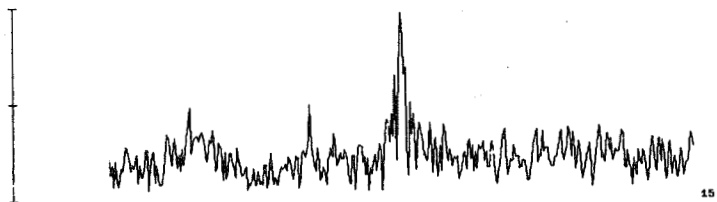
XRD-65/13



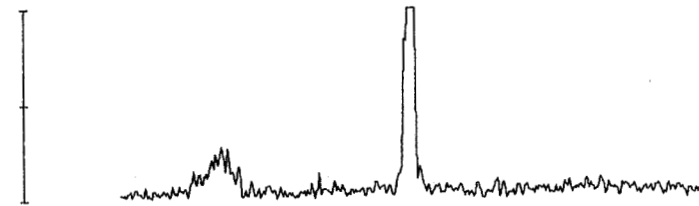
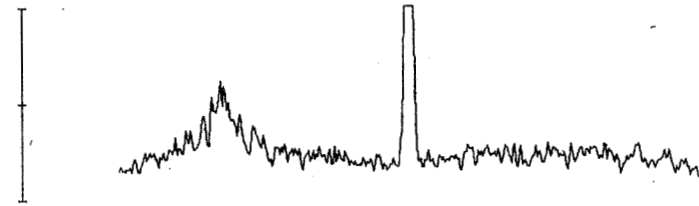
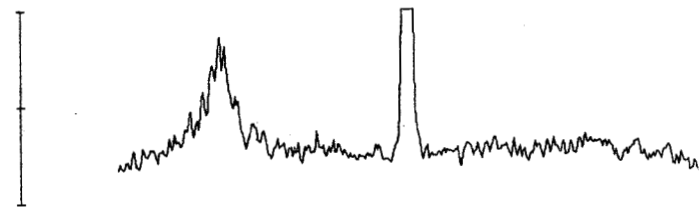
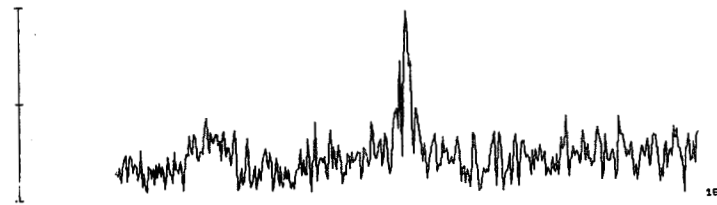
XRD-65/14



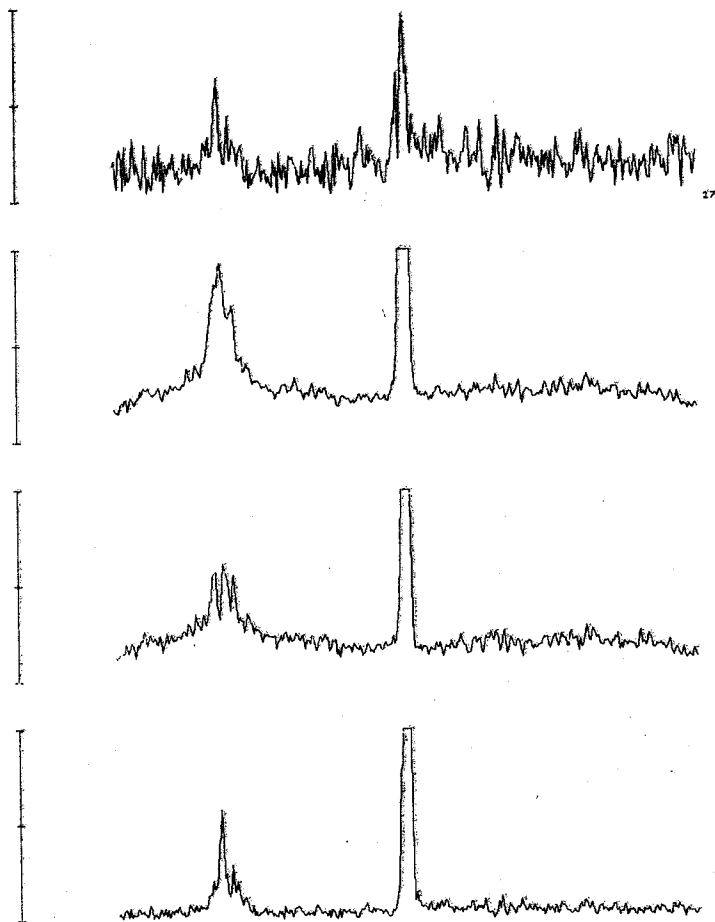
XRD-65/15



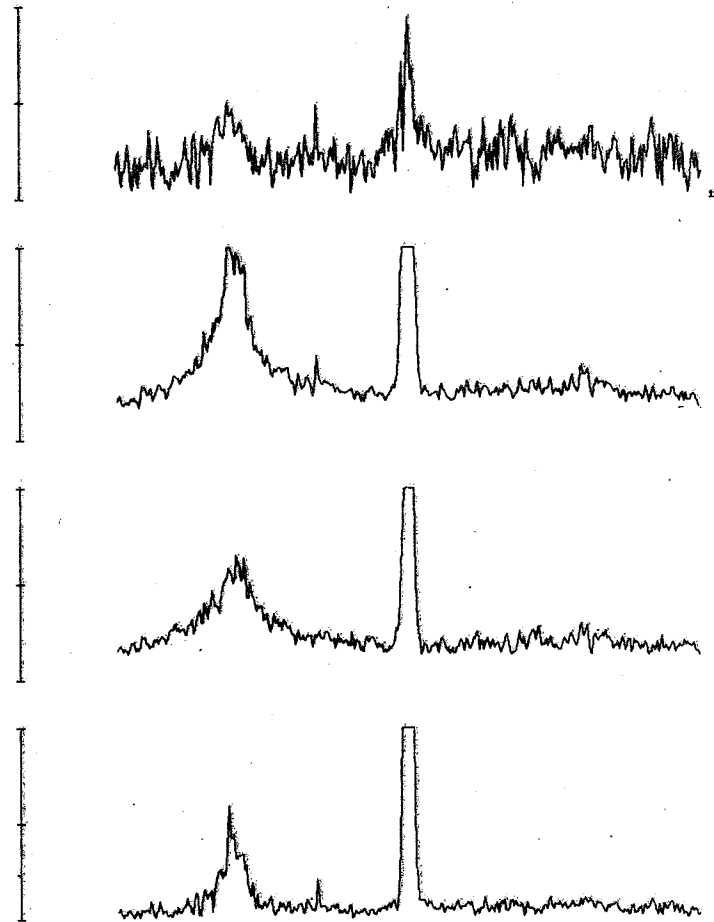
XRD-65/16



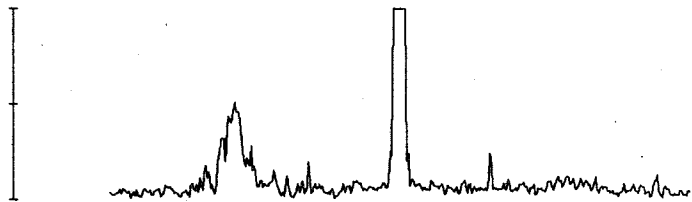
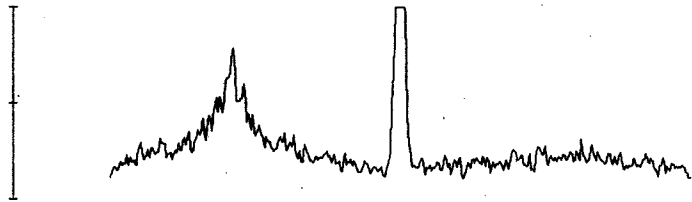
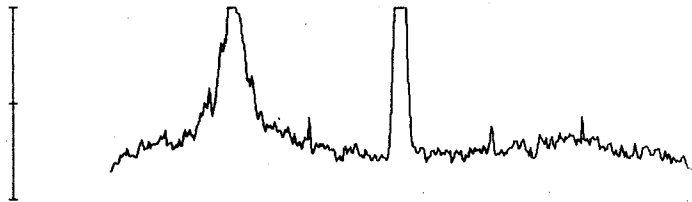
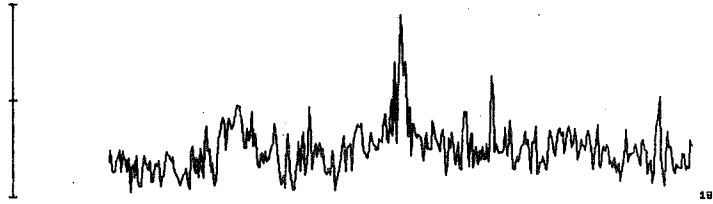
XRD-65/17



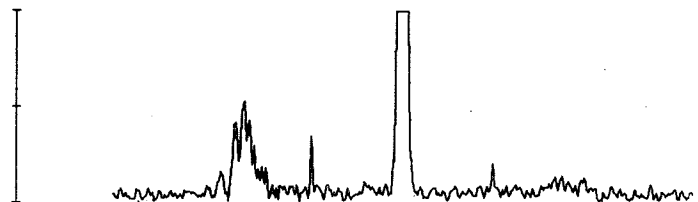
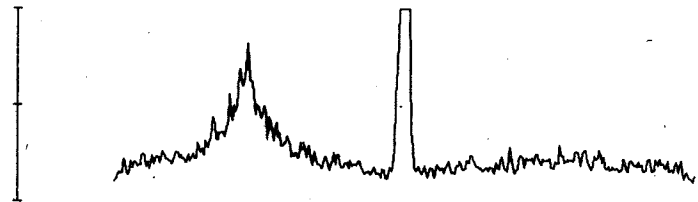
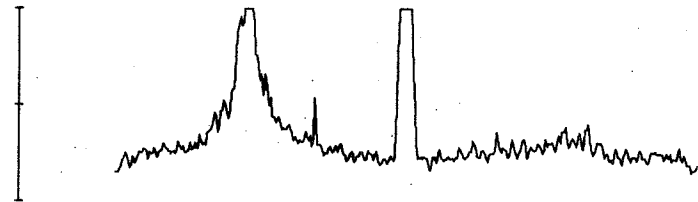
XRD-65/18



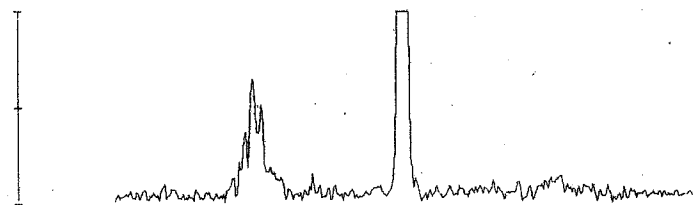
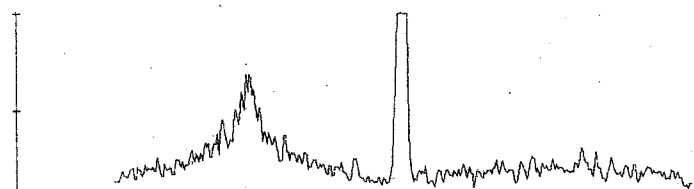
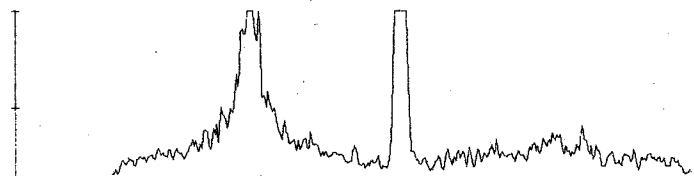
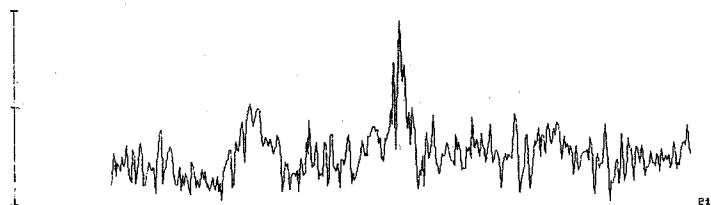
XRD-65/19



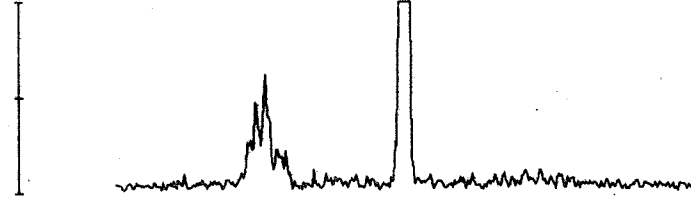
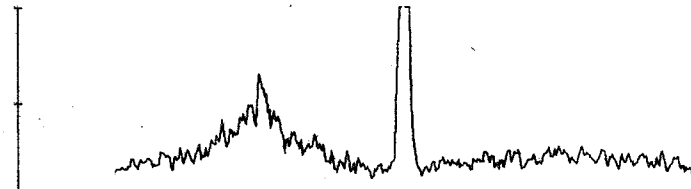
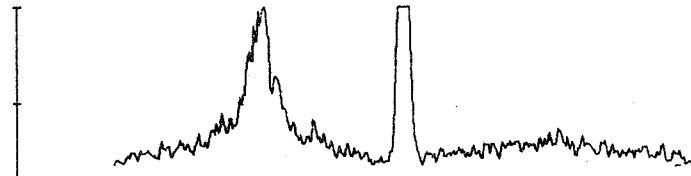
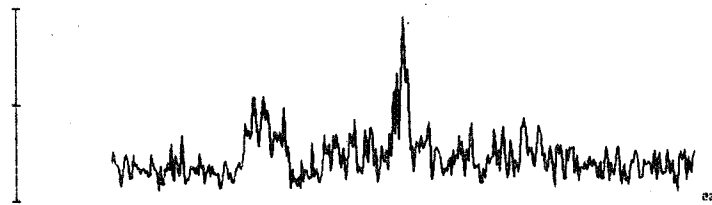
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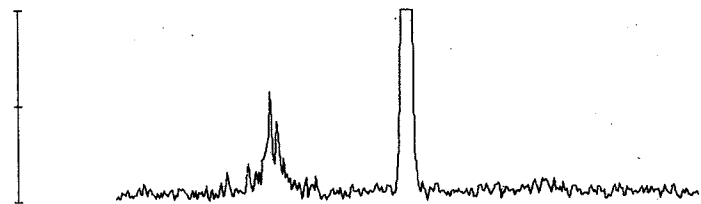
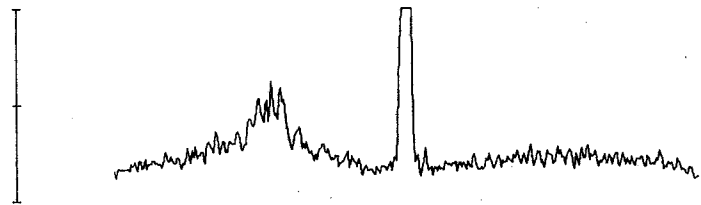
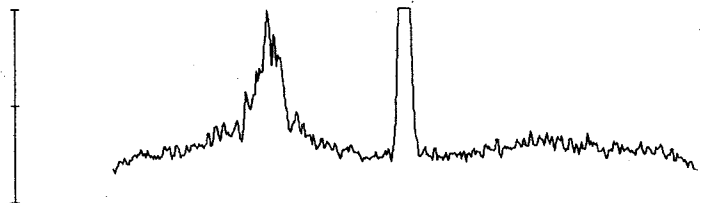
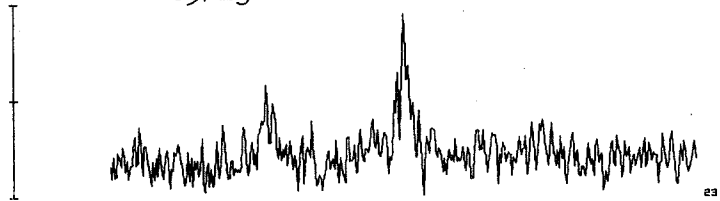
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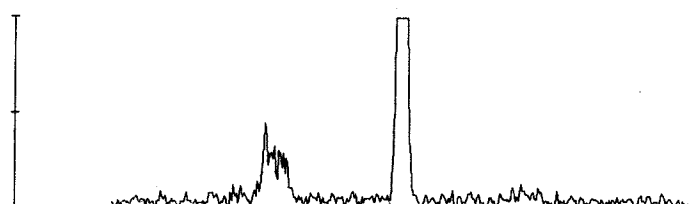
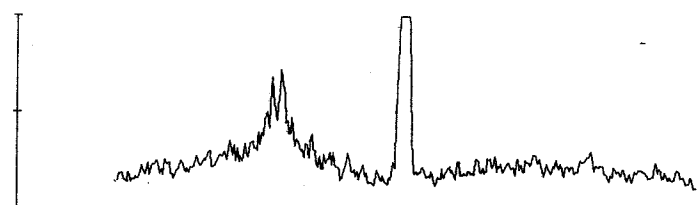
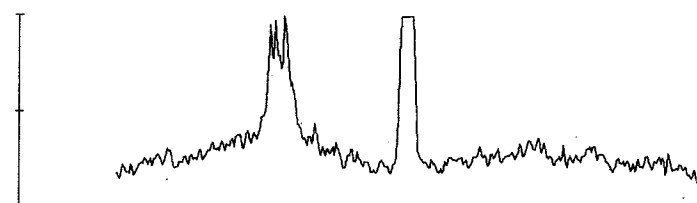
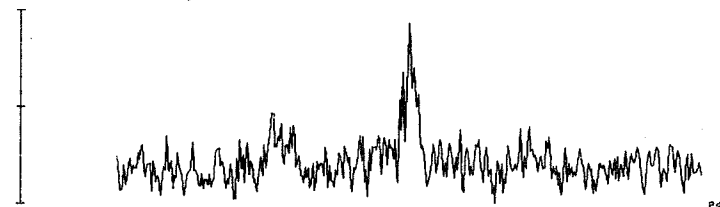
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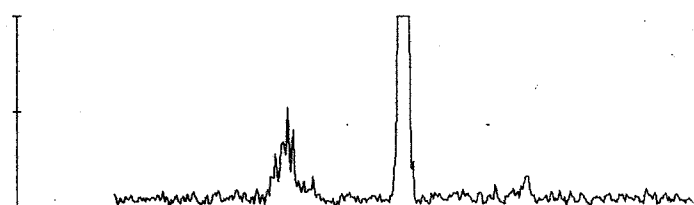
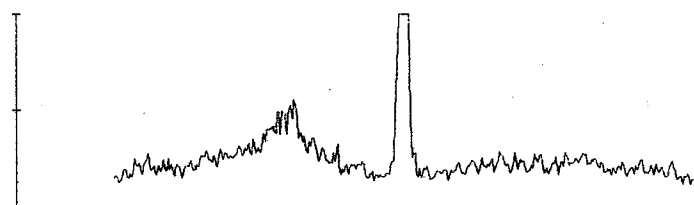
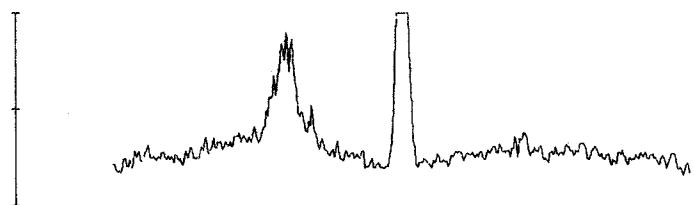
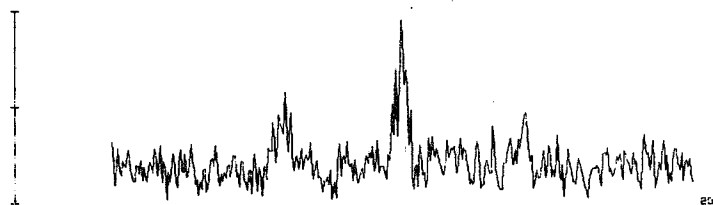
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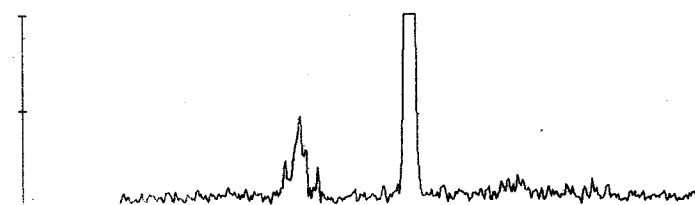
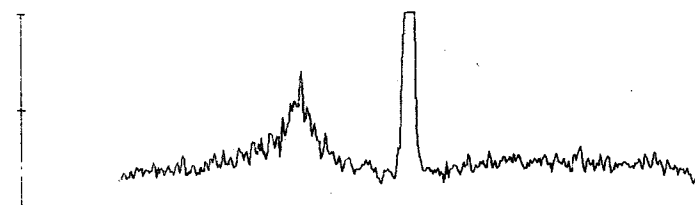
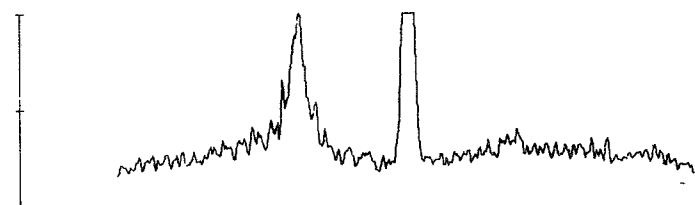
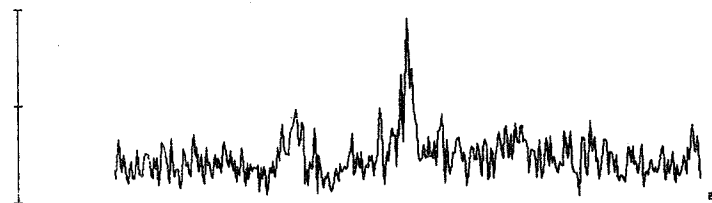
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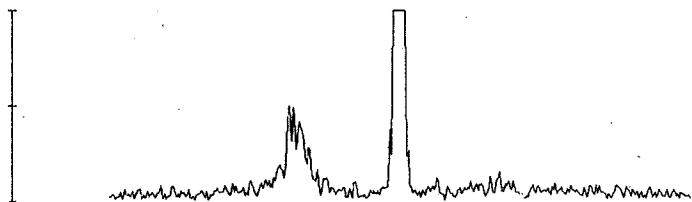
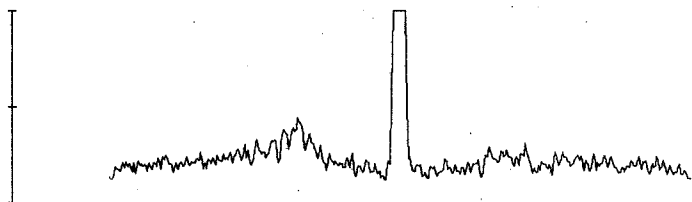
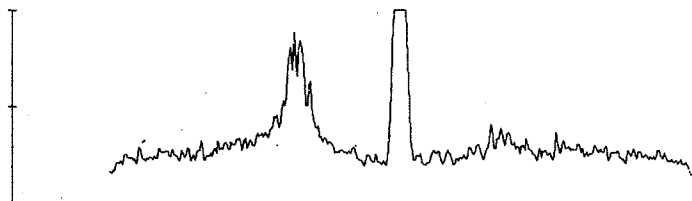
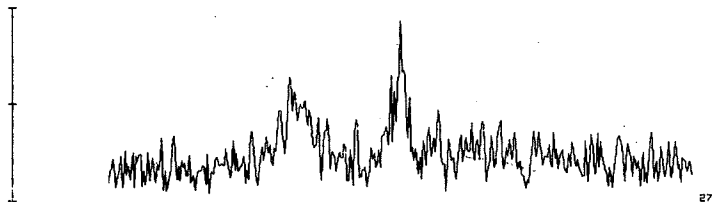
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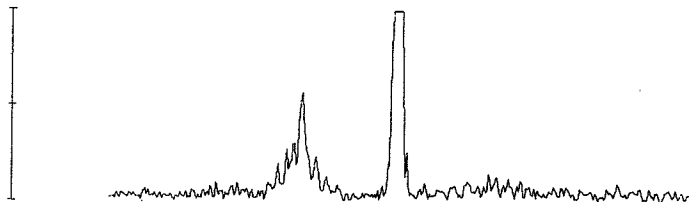
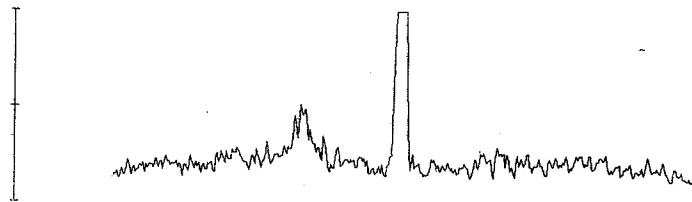
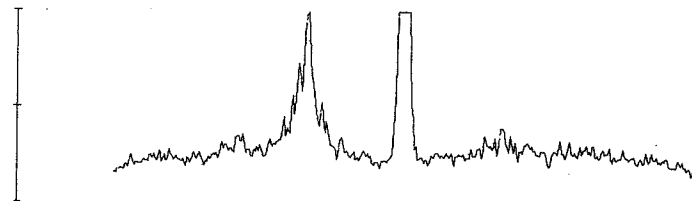
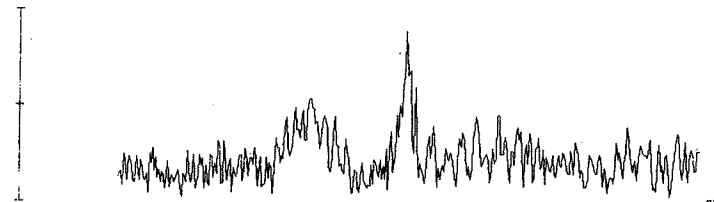
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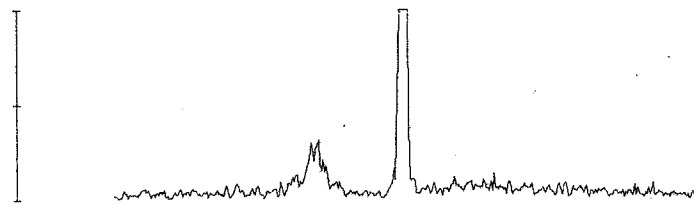
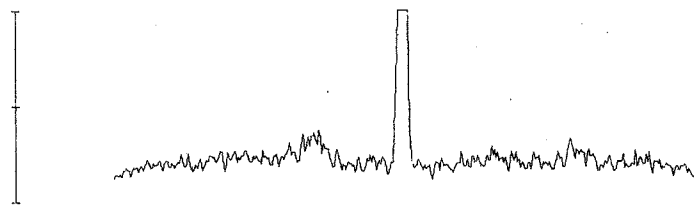
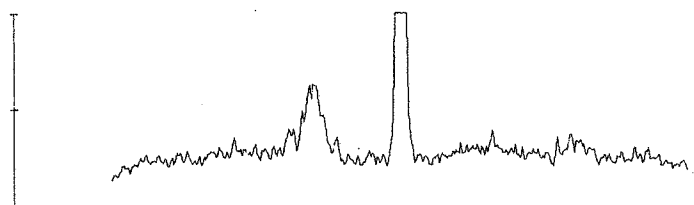
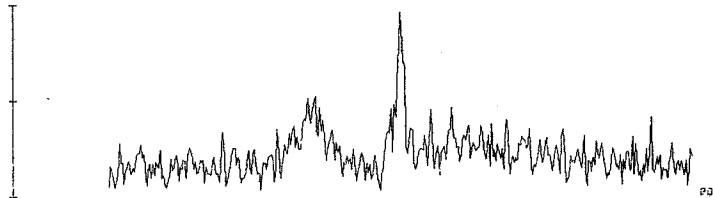
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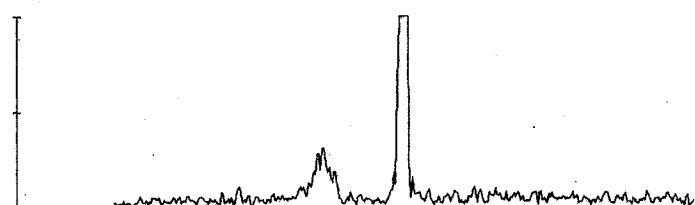
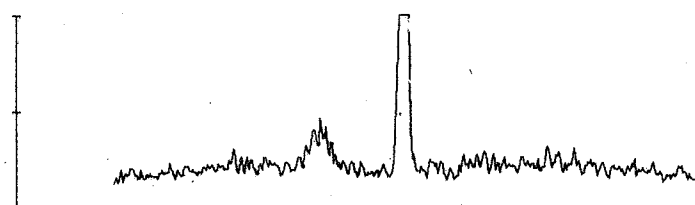
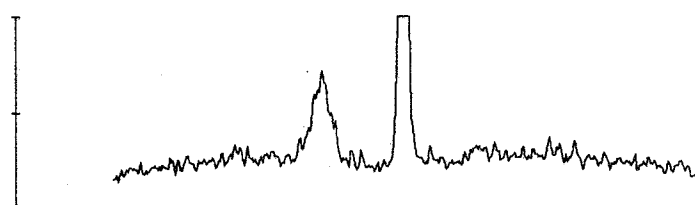
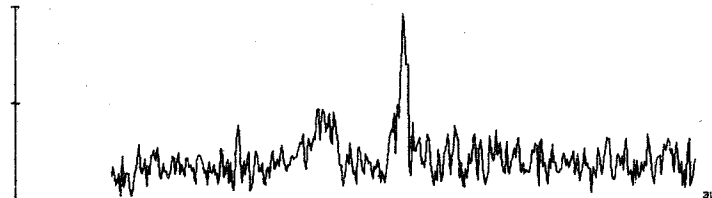
XRD-65/28



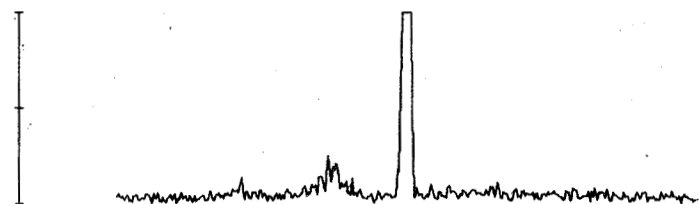
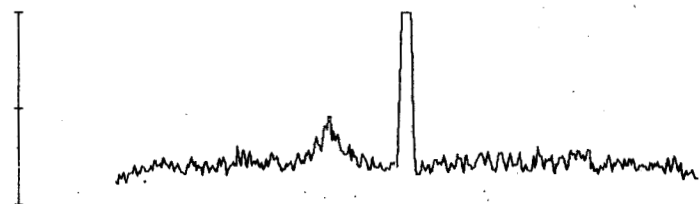
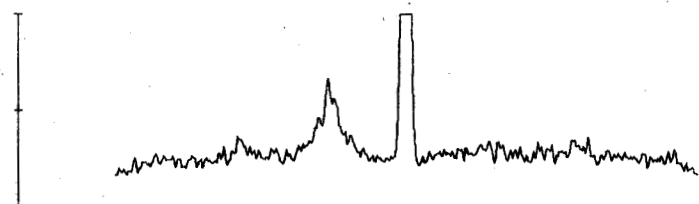
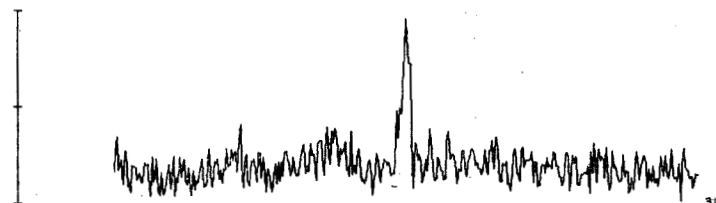
XRD-65/29



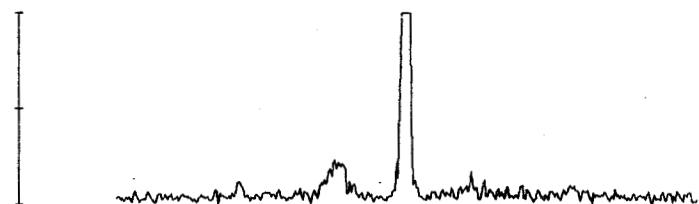
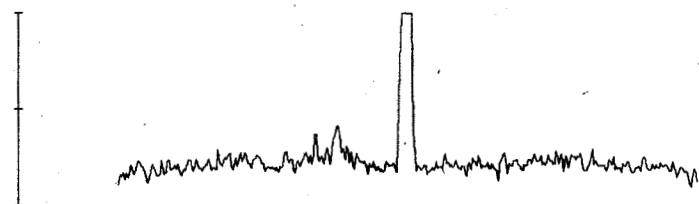
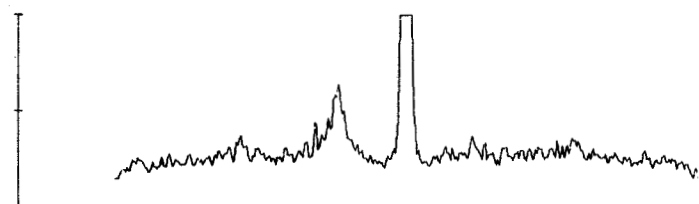
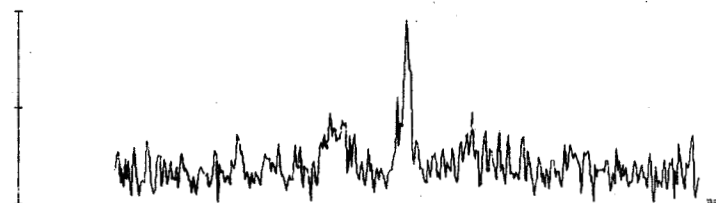
XRD-65/30



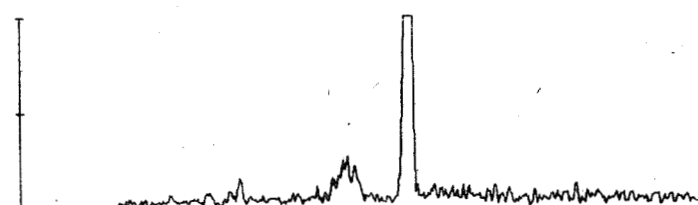
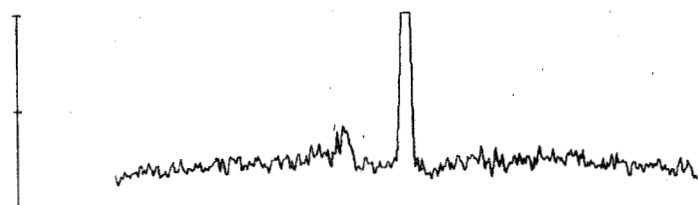
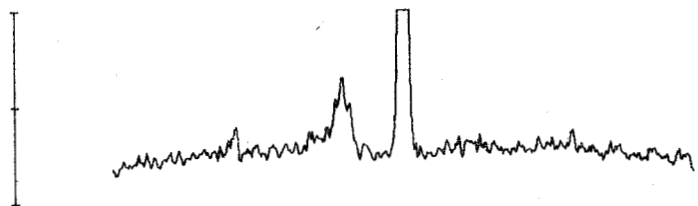
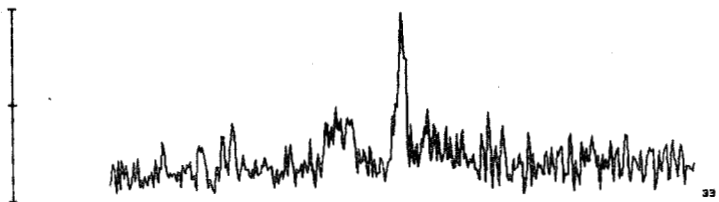
XRD-65/31



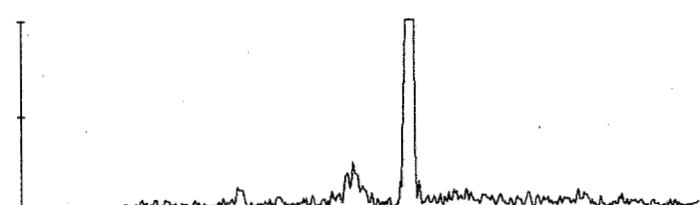
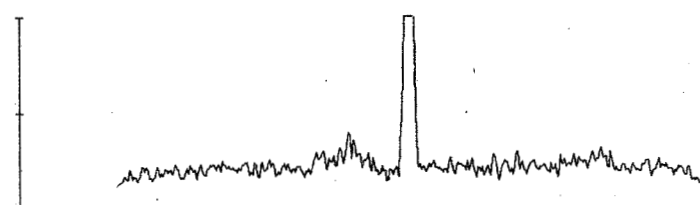
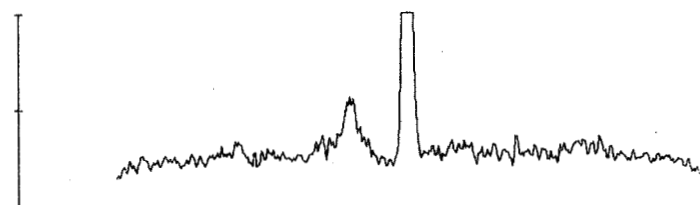
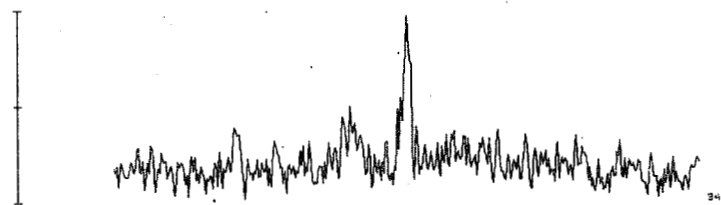
XRD-65/32



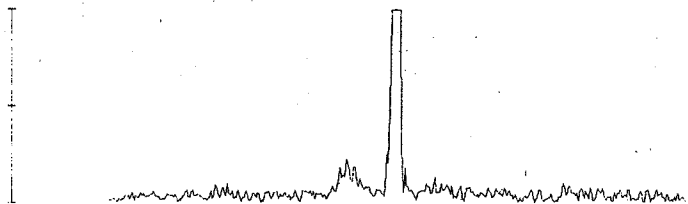
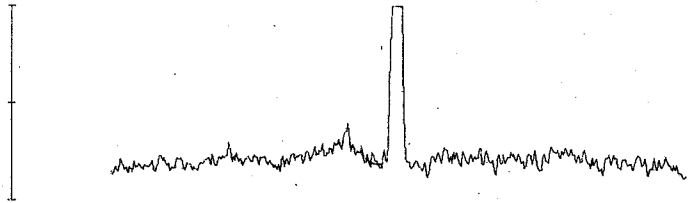
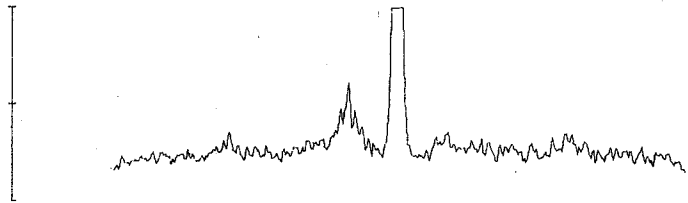
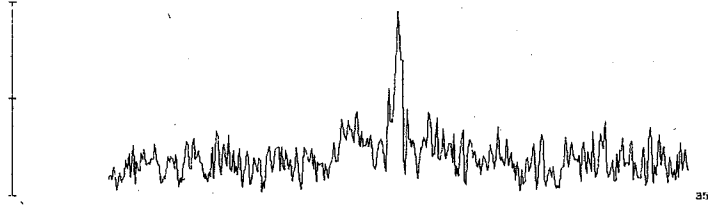
XRD-65/33



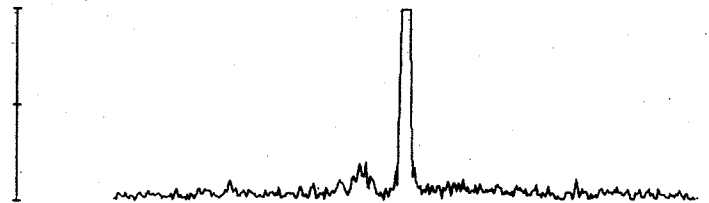
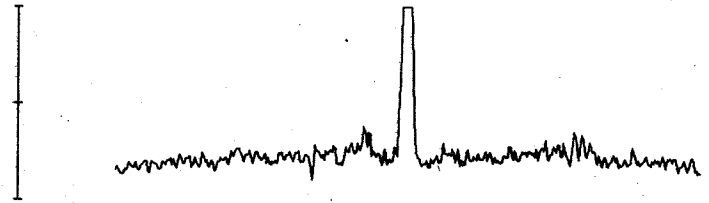
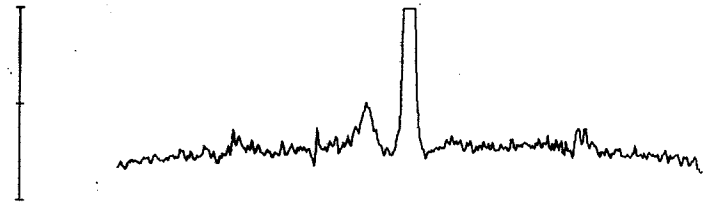
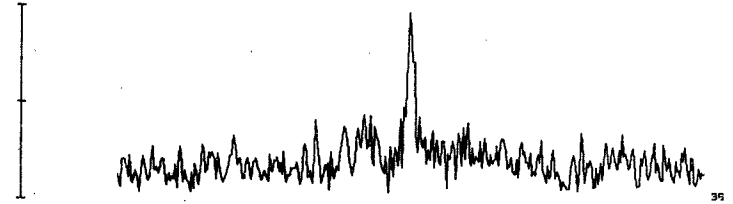
XRD-65/34



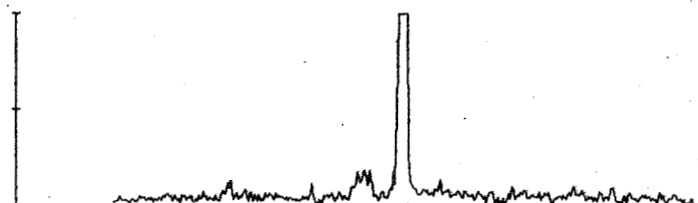
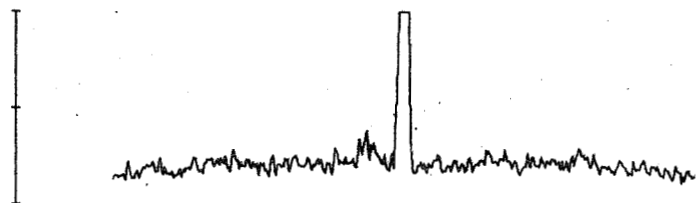
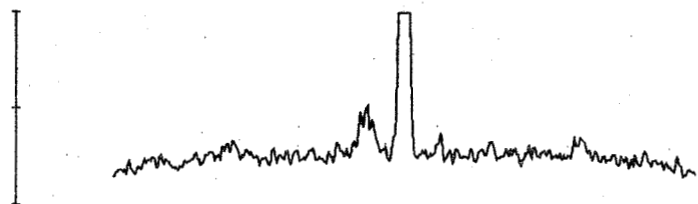
XRD-65/35



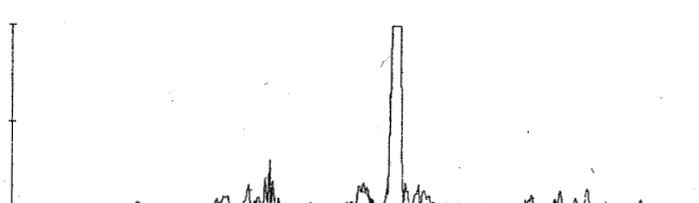
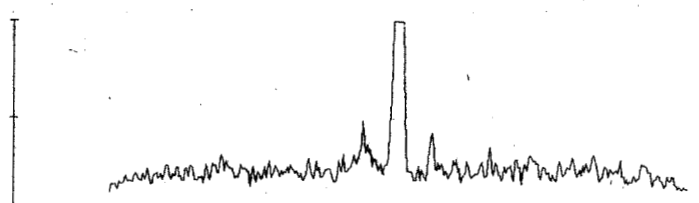
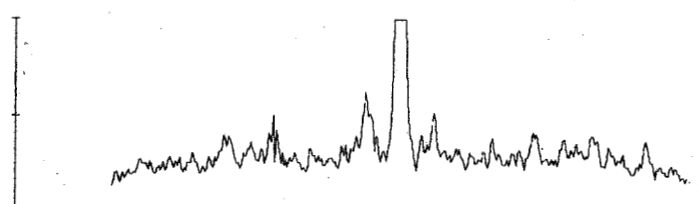
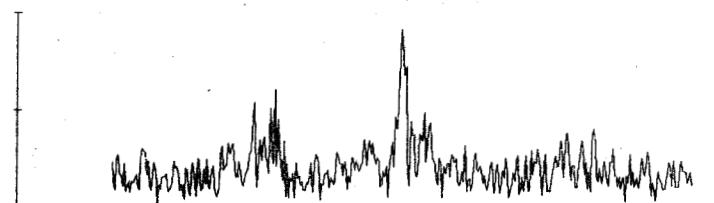
XRD-65/36



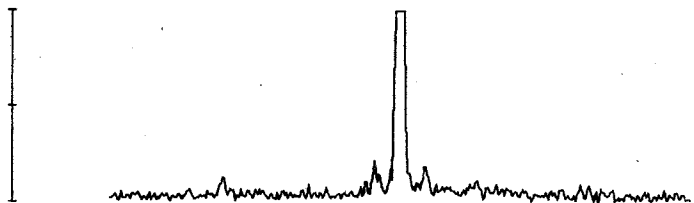
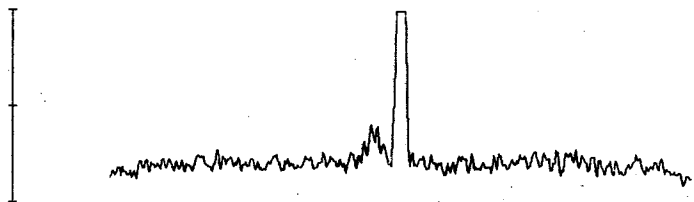
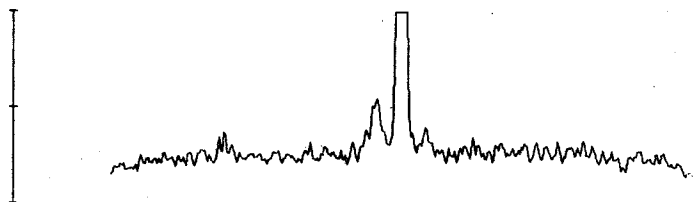
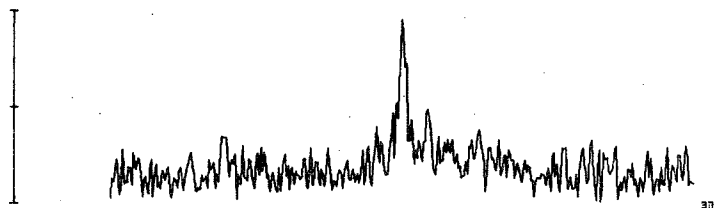
XRD-65/37



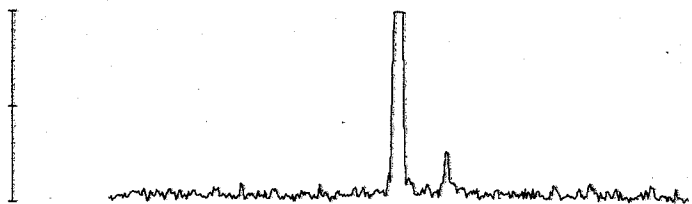
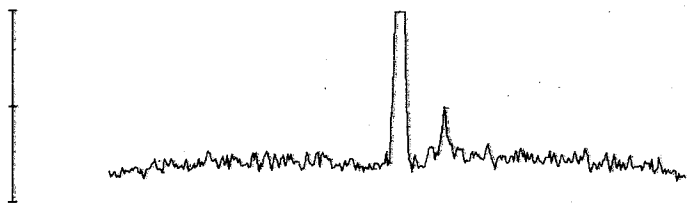
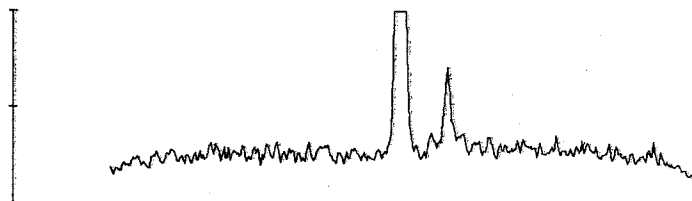
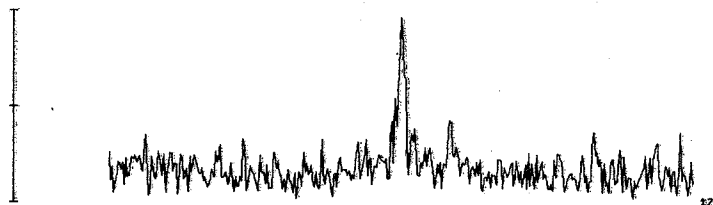
XRD-65/38



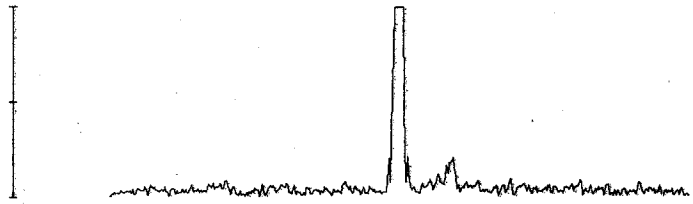
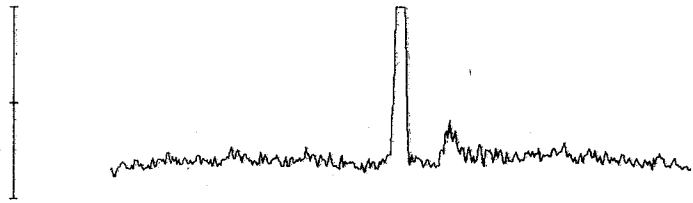
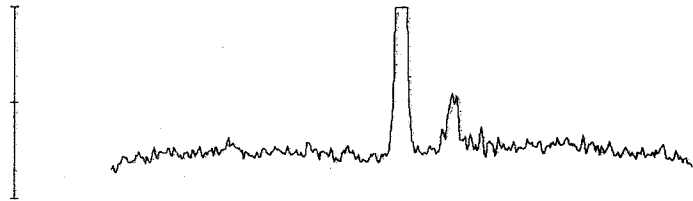
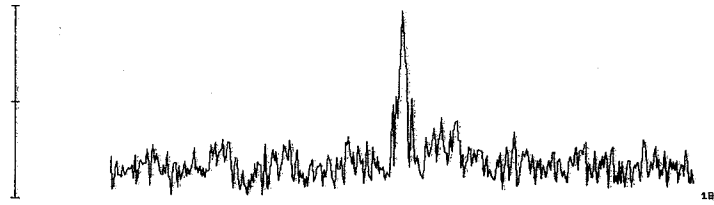
XRD-65/39



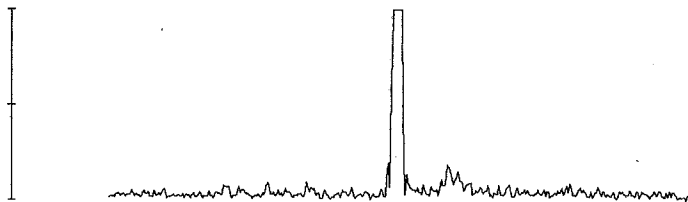
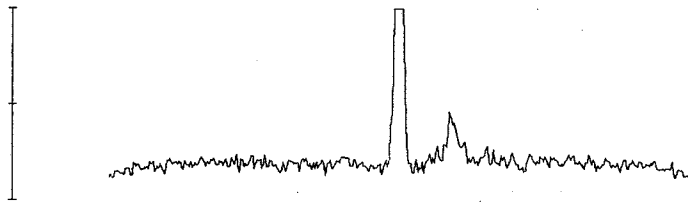
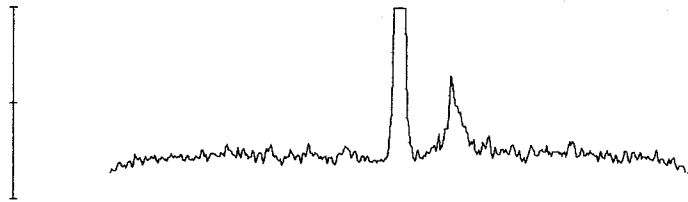
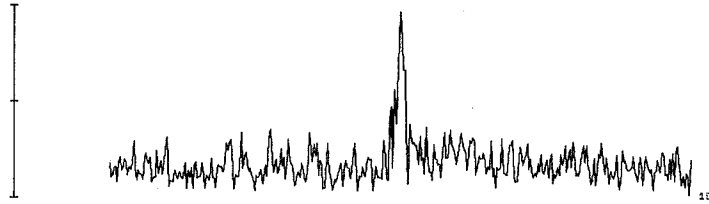
XRD-66/17



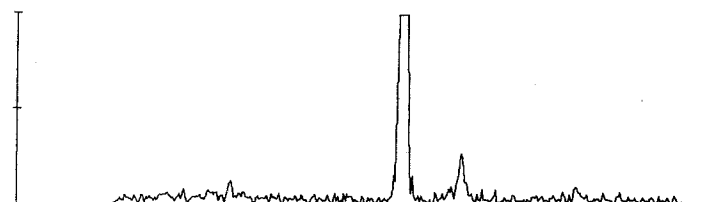
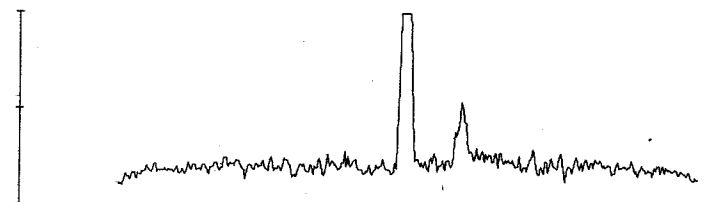
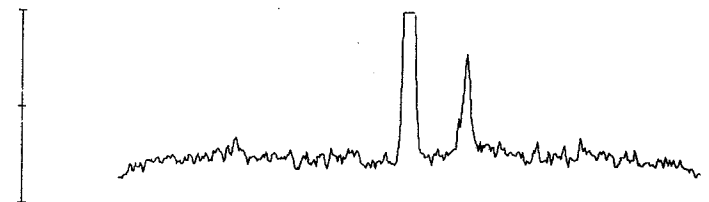
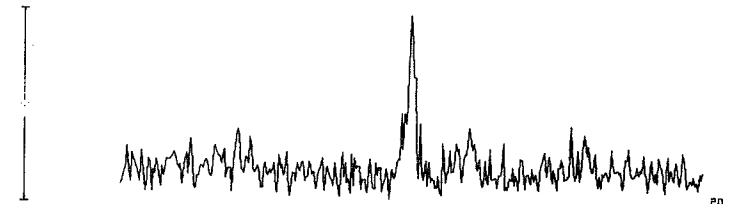
XRD-66/18



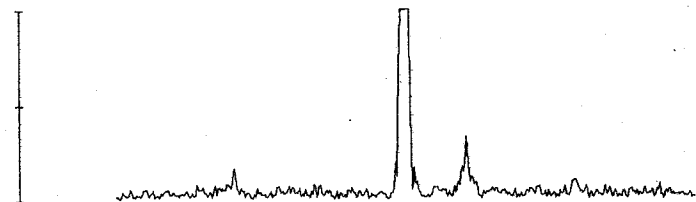
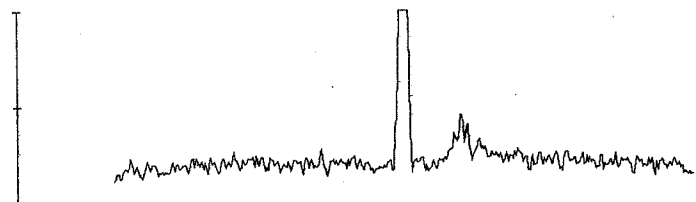
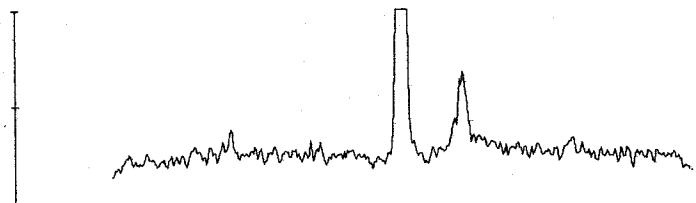
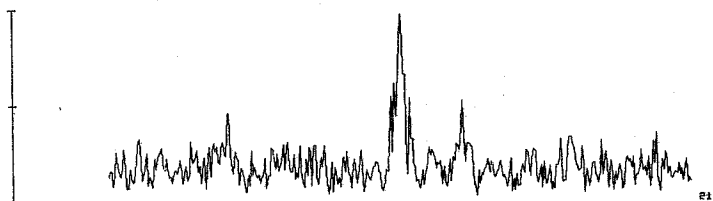
XRD-66/19



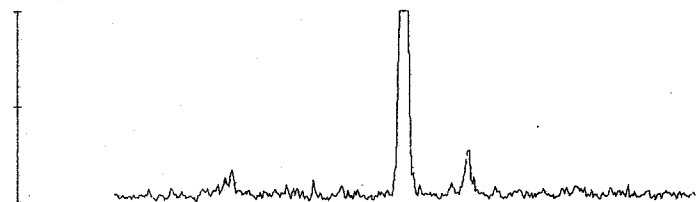
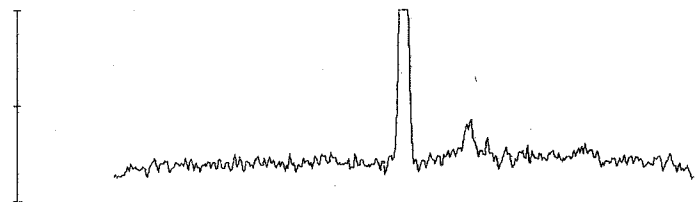
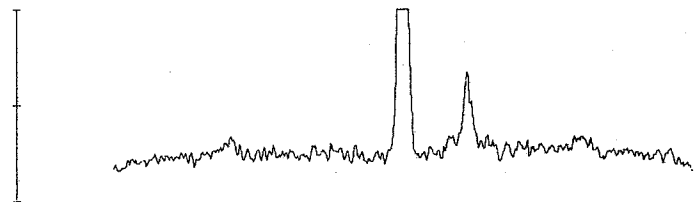
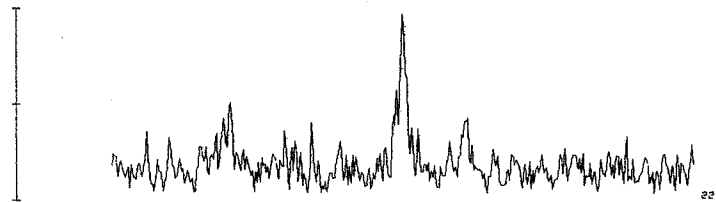
XRD-66/20



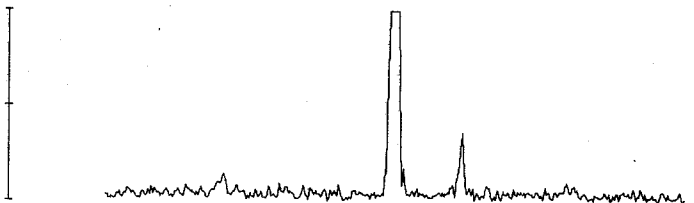
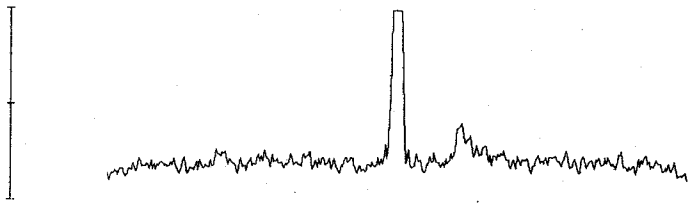
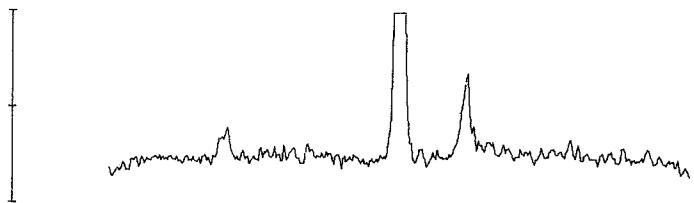
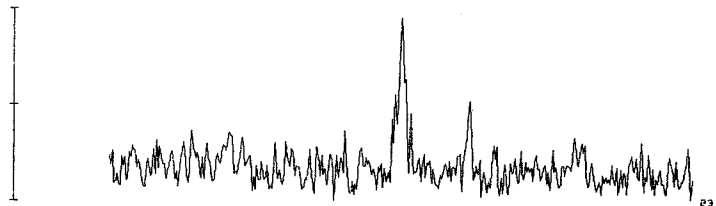
XRD-66/21



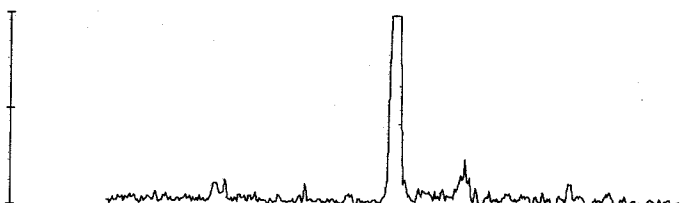
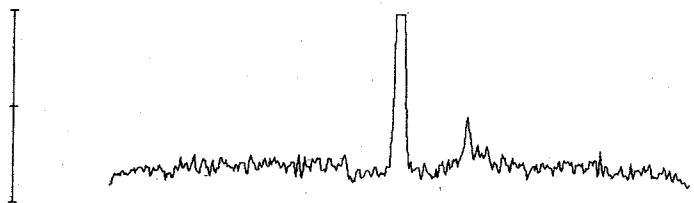
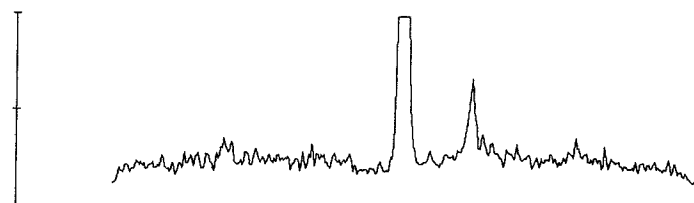
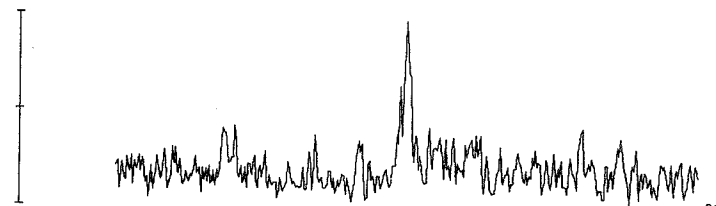
XRD-66/22



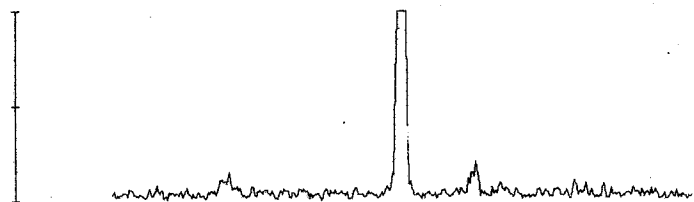
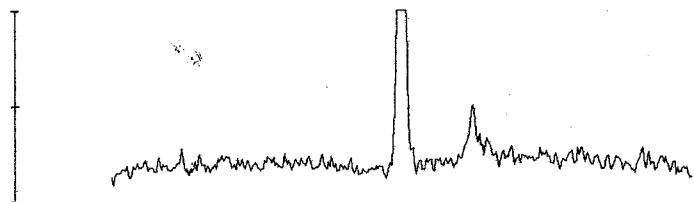
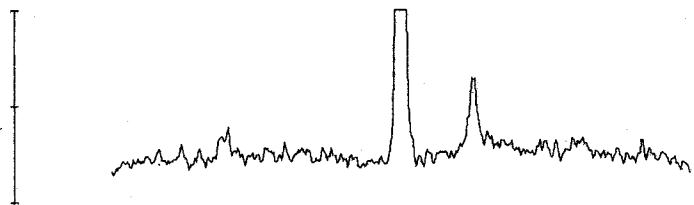
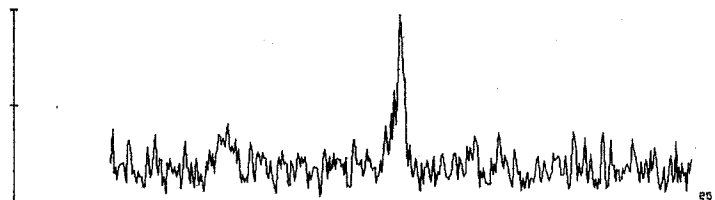
XRD-66/23



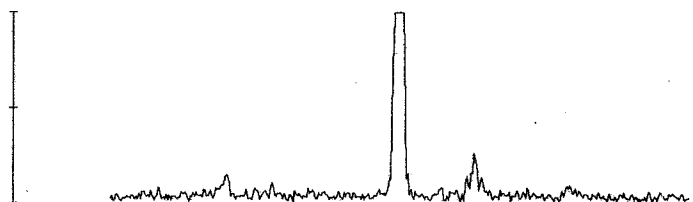
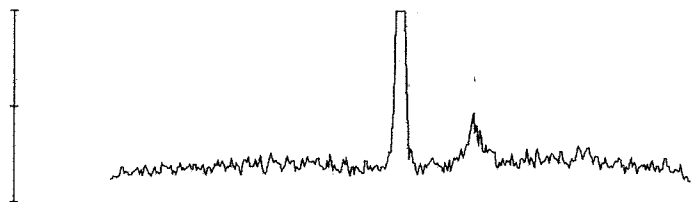
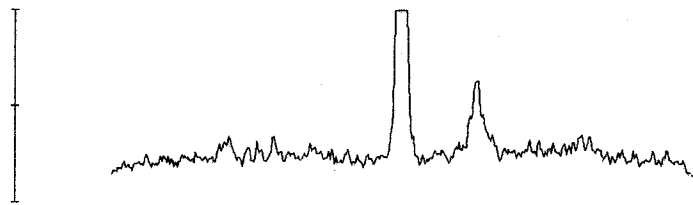
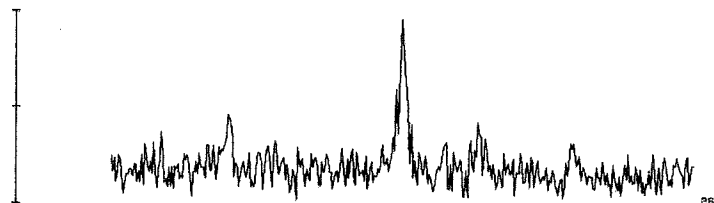
XRD-66/24



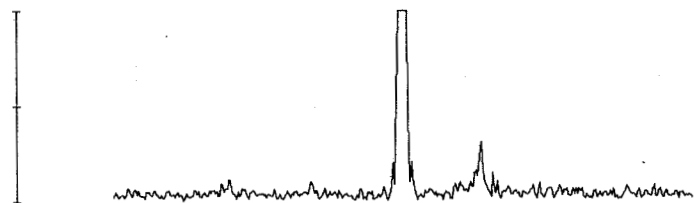
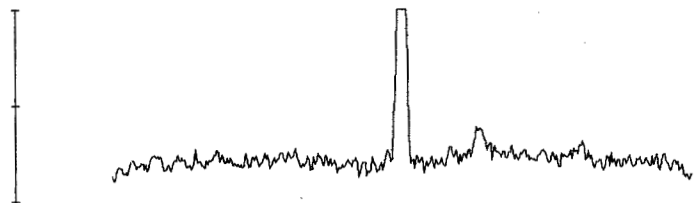
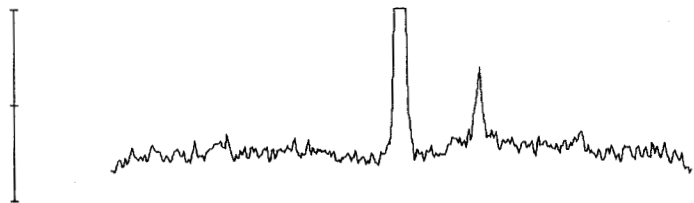
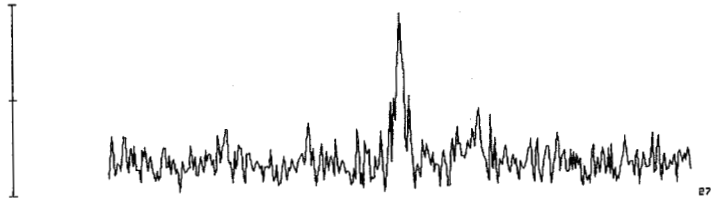
XRD-66/25



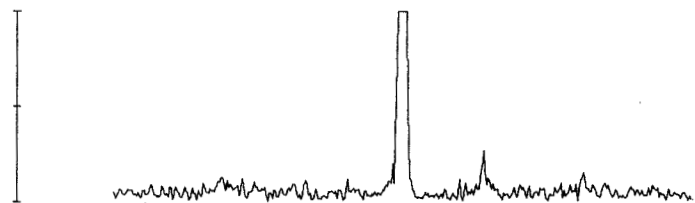
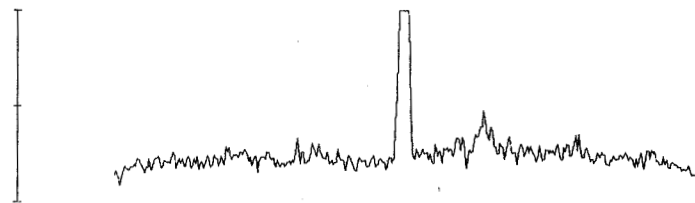
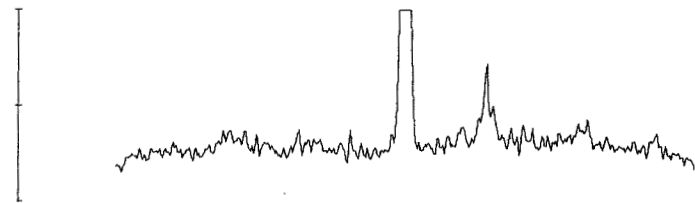
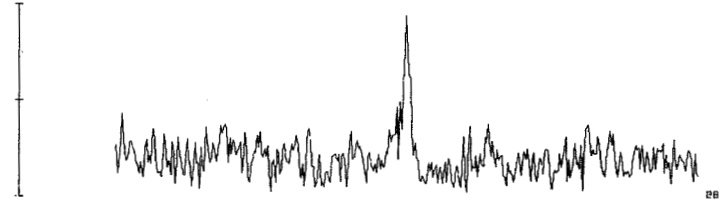
XRD-66/26



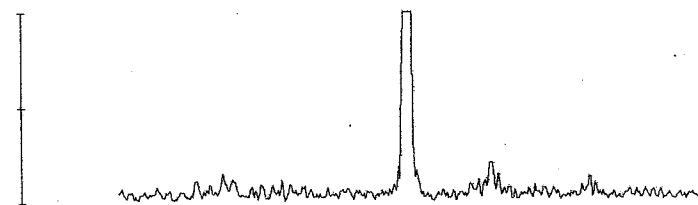
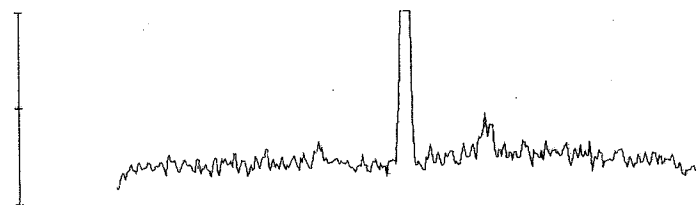
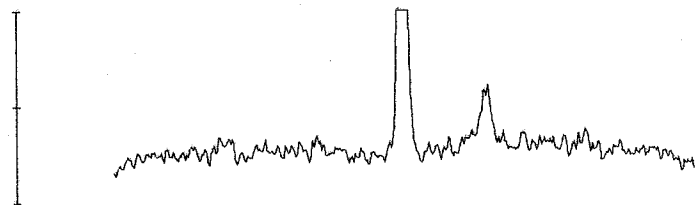
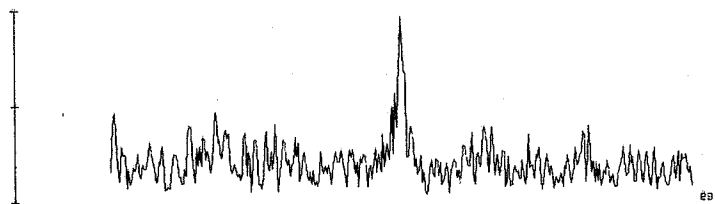
XRD-66/27



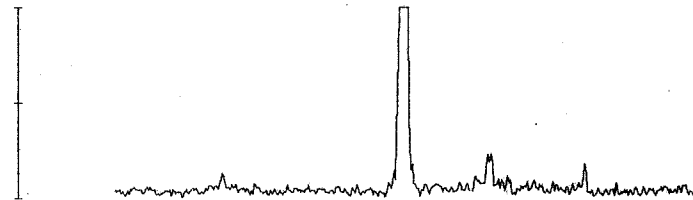
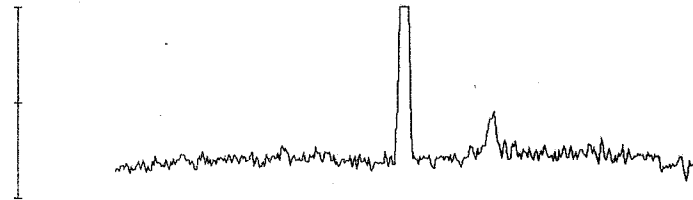
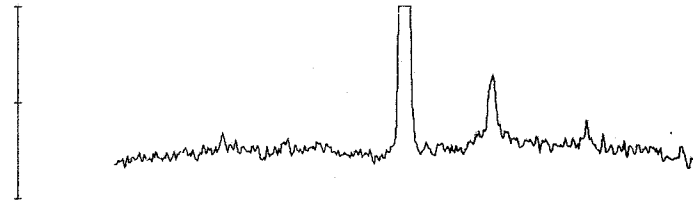
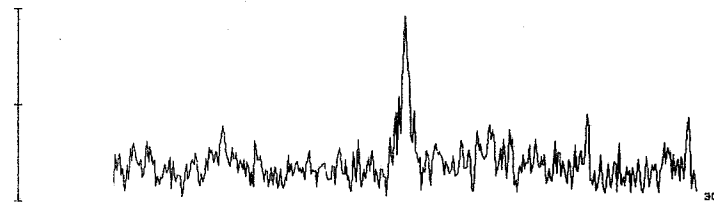
XRD-66/28



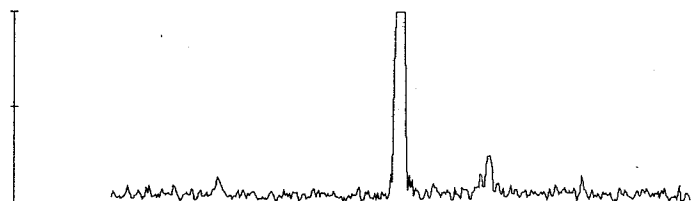
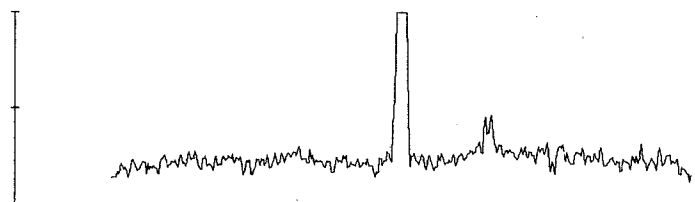
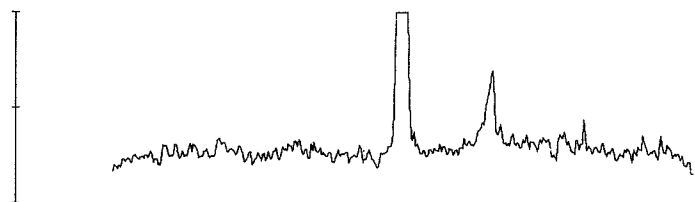
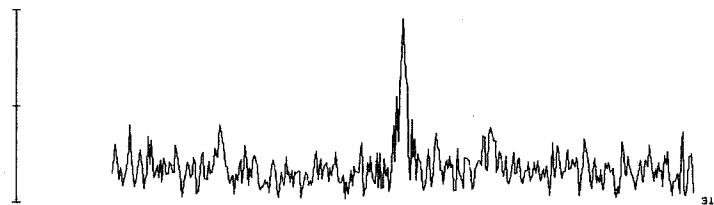
XRD-66/29



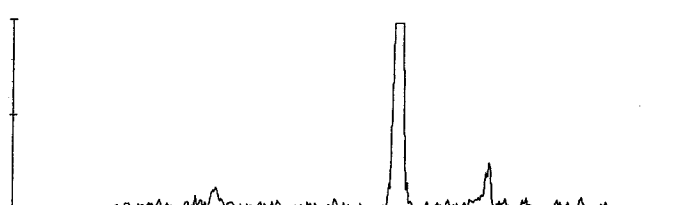
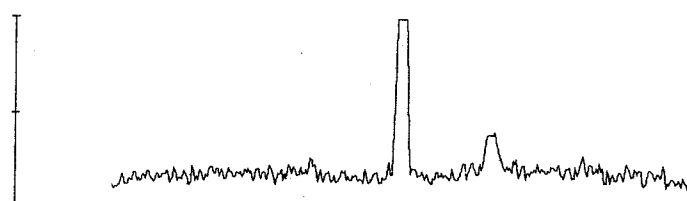
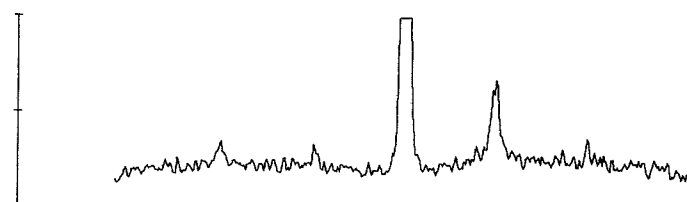
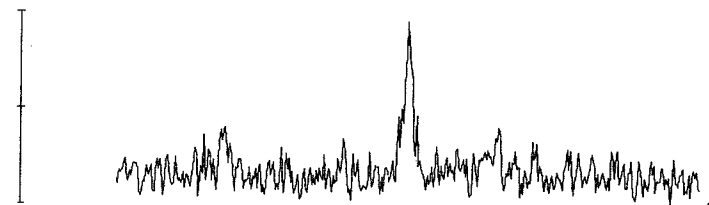
XRD-66/30



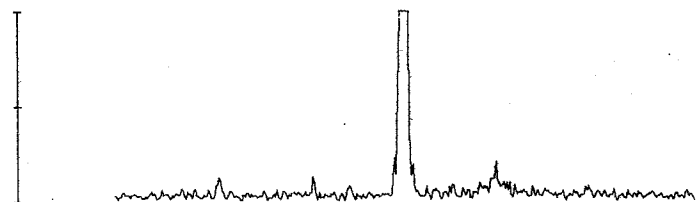
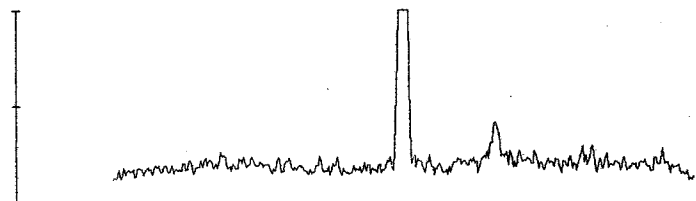
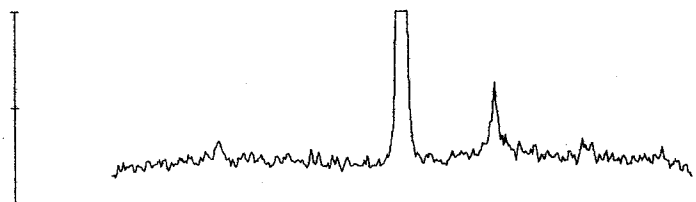
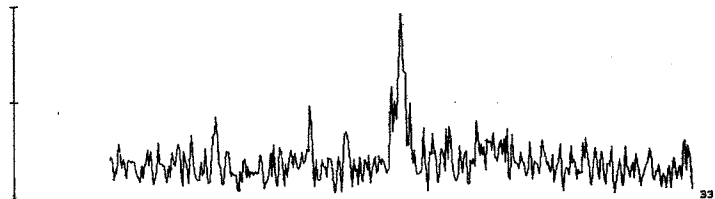
XRD-66/31



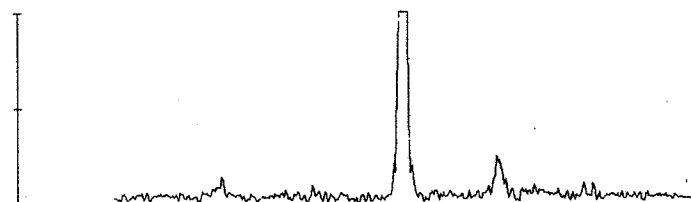
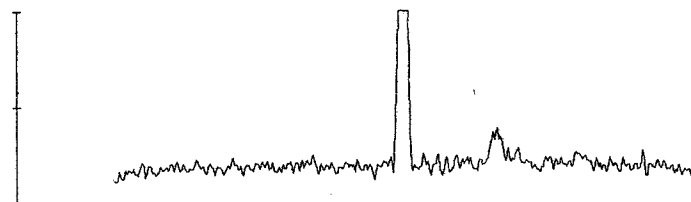
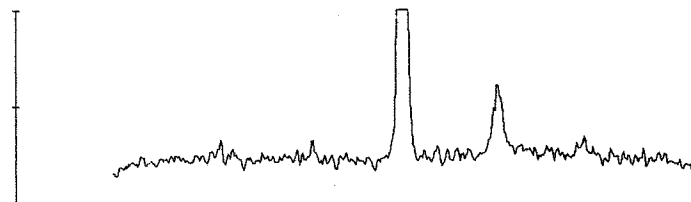
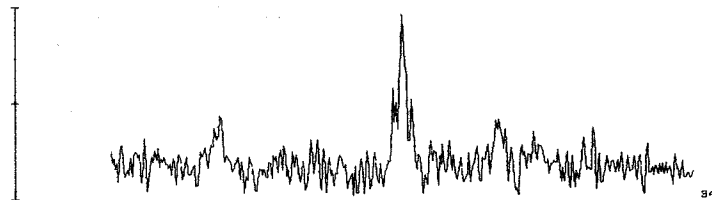
XRD-66/32



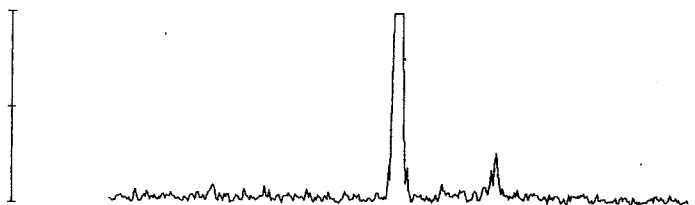
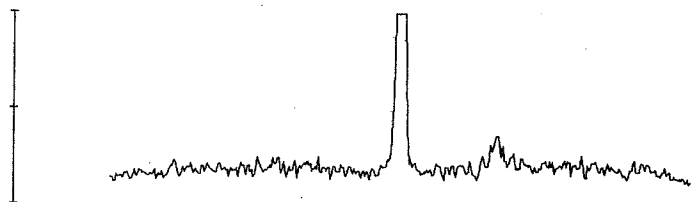
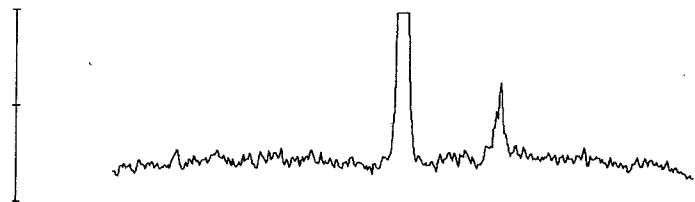
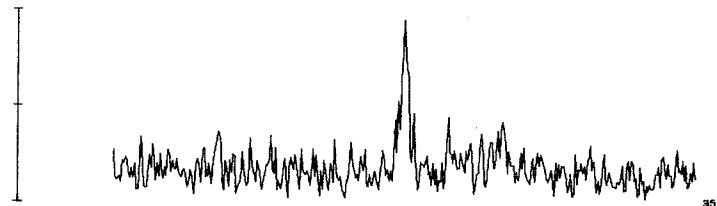
XRD-66/33



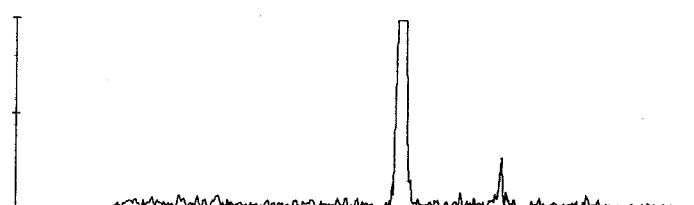
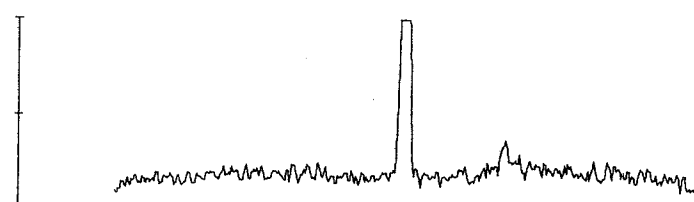
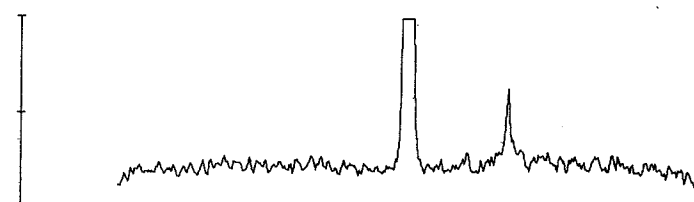
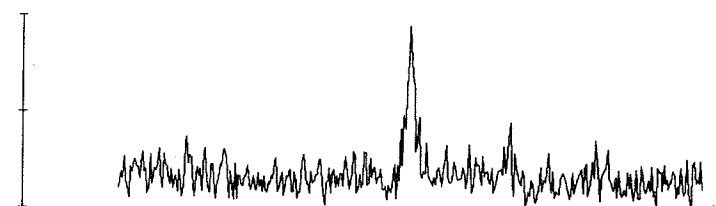
XRD-66/34



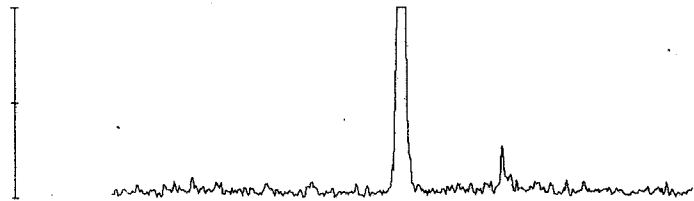
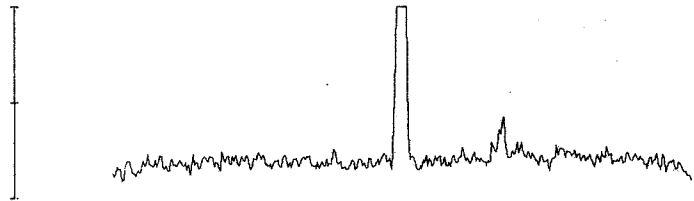
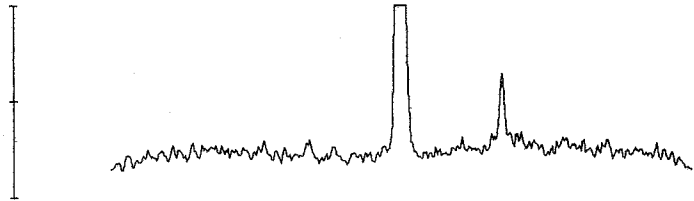
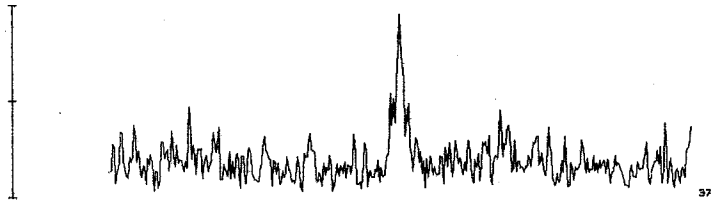
XRD-66/35



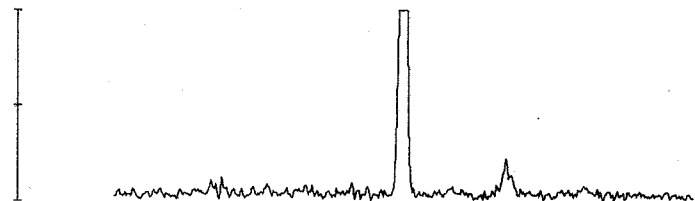
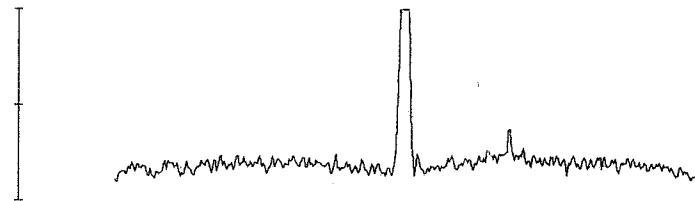
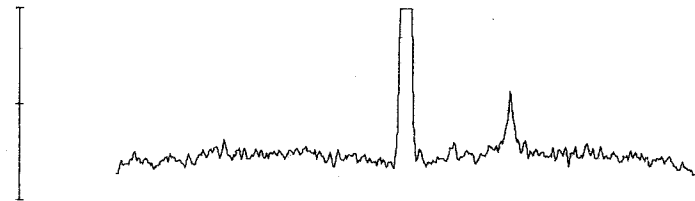
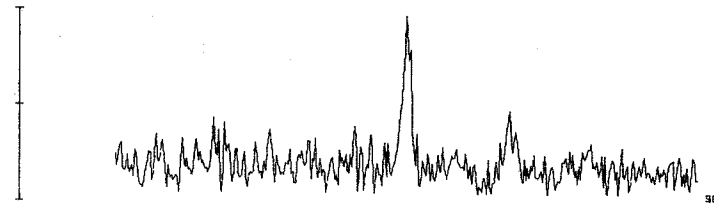
XRD-66/36



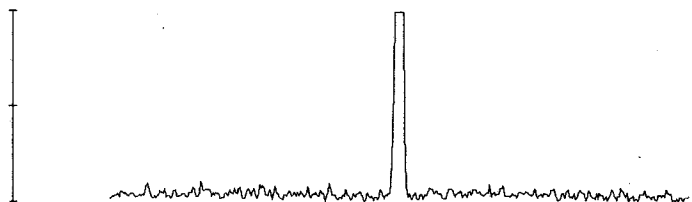
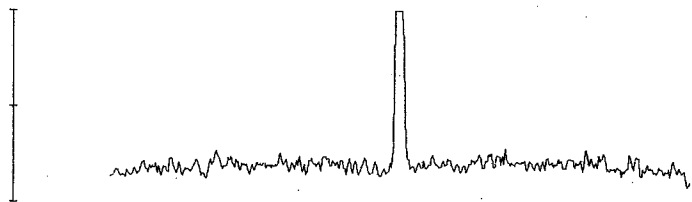
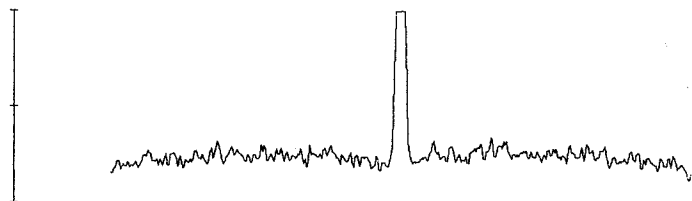
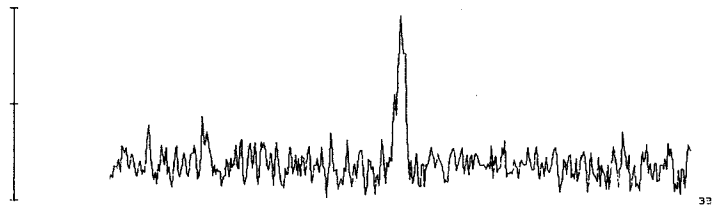
XRD-66/37



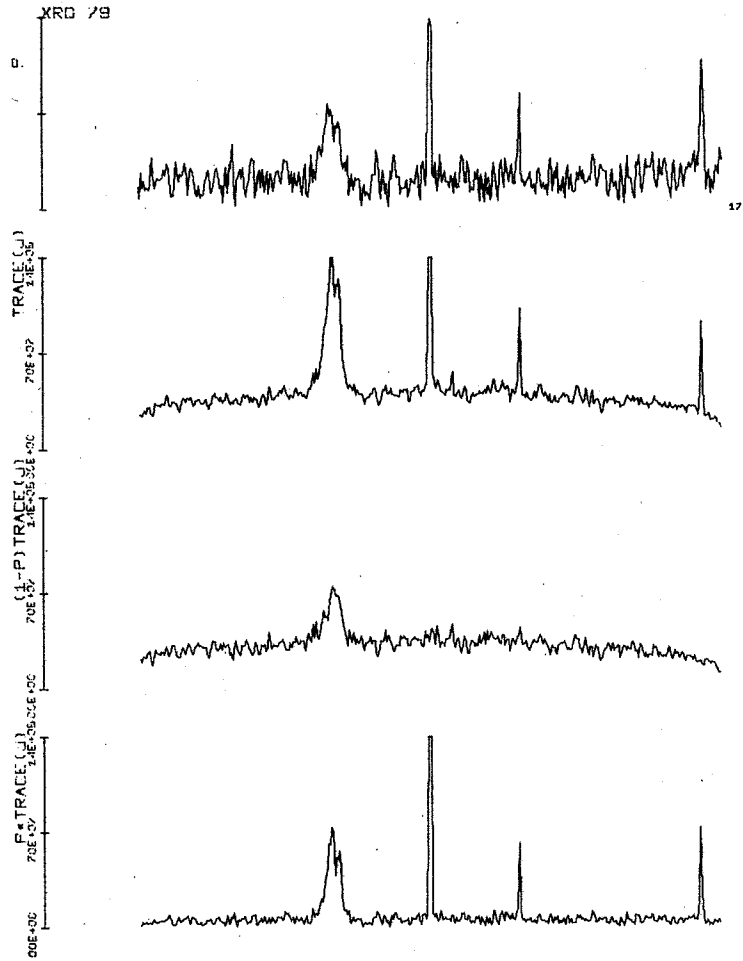
XRD-66/38



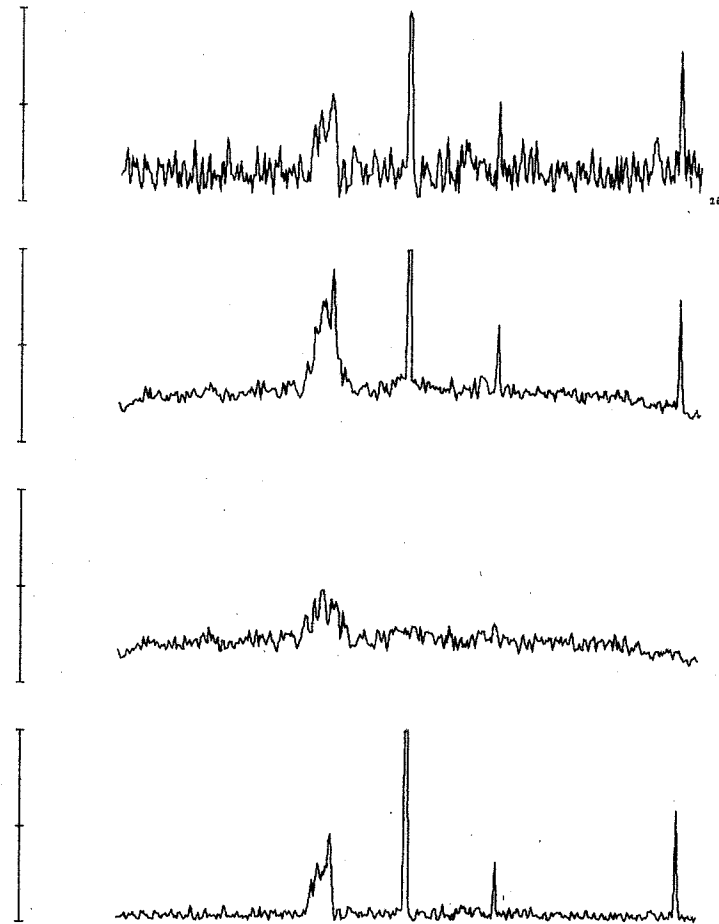
XRD-66/39



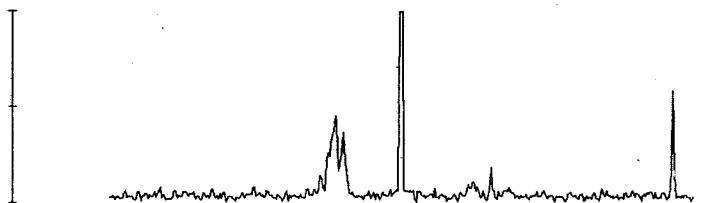
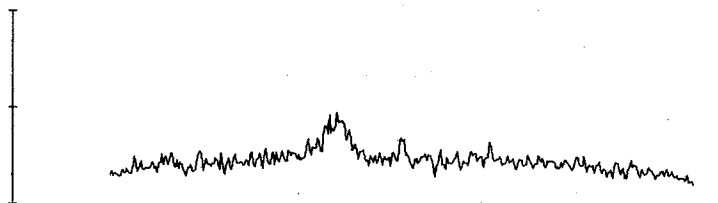
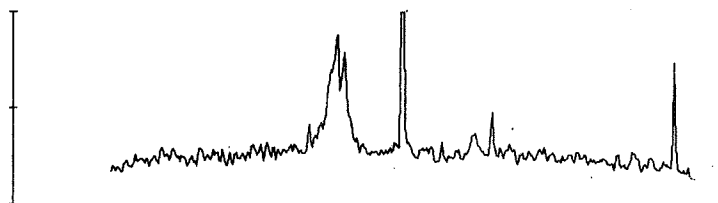
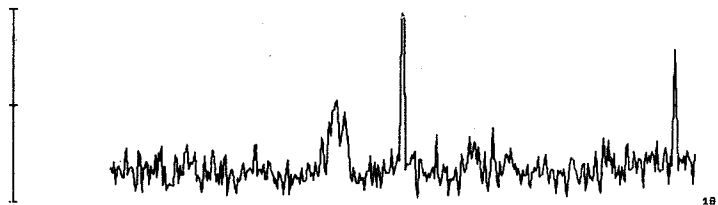
XRD-79/17



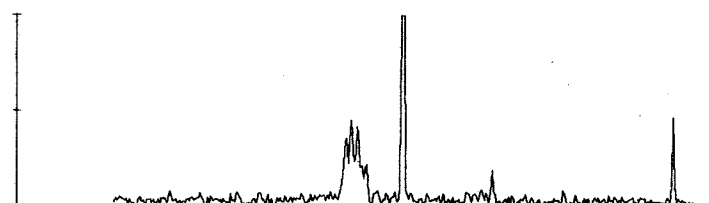
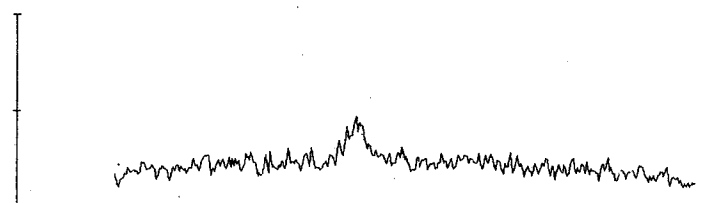
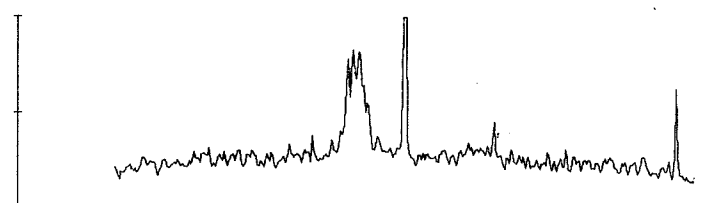
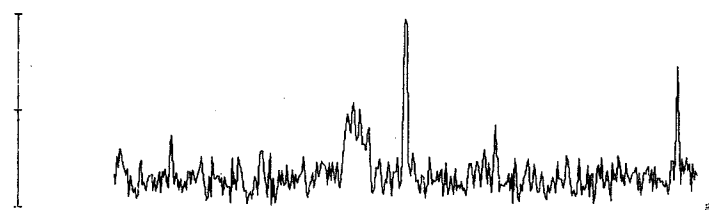
XRD-79/18



XRD-79/19



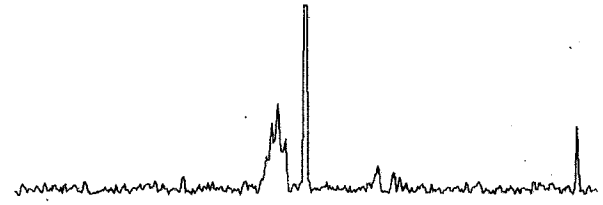
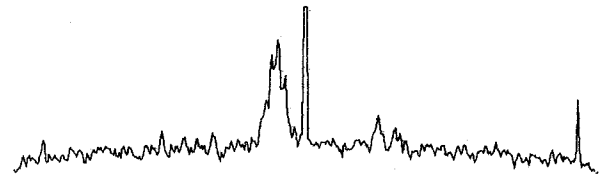
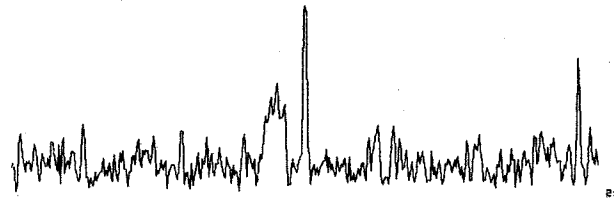
XRD-79/20



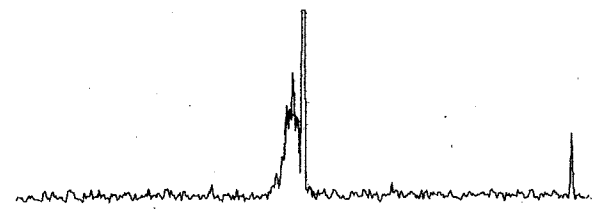
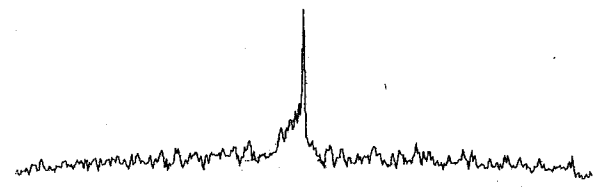
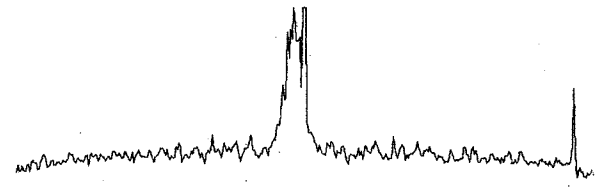
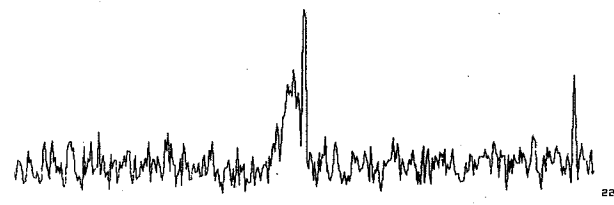
DIFFRACTION PATTERN
2θ (°)

XRD-79/21

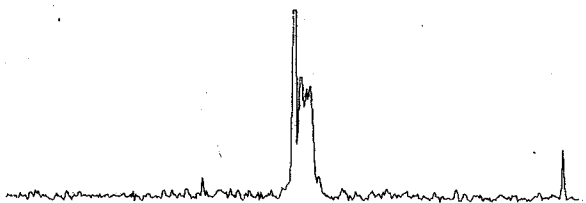
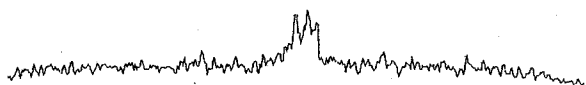
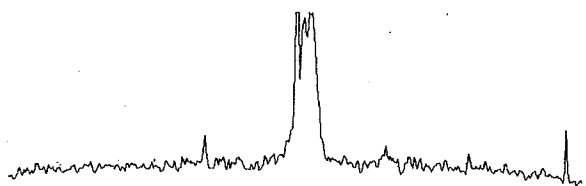
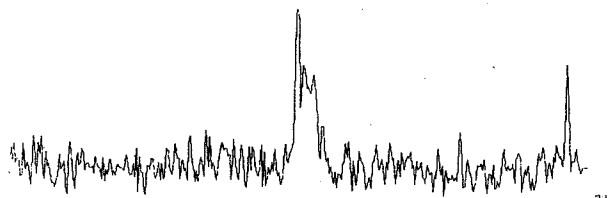
XRD 79



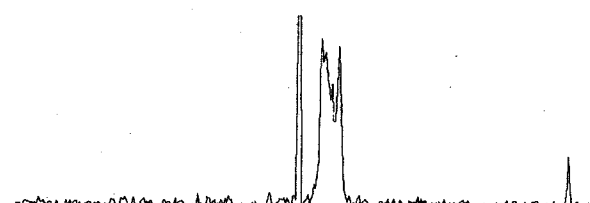
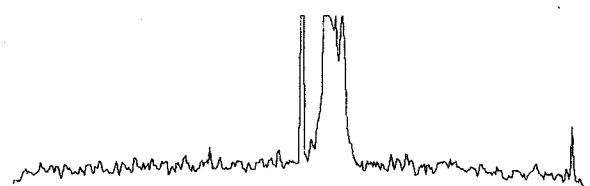
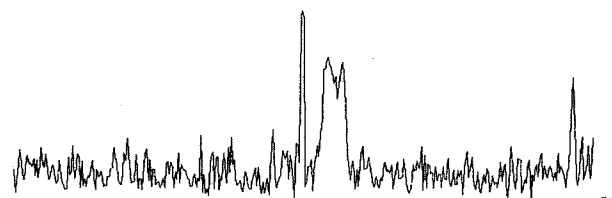
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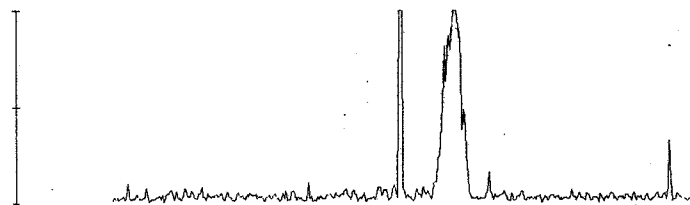
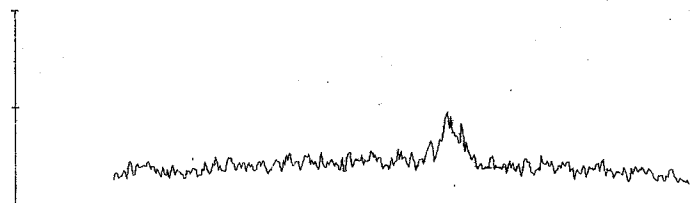
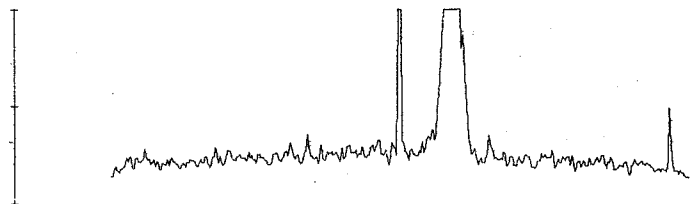
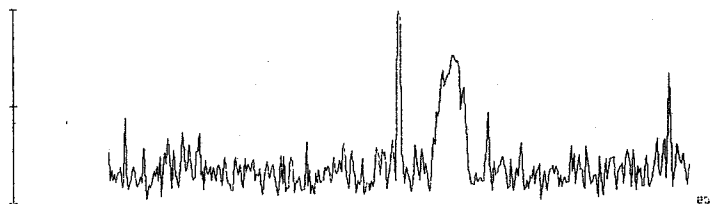
XRD-79/23



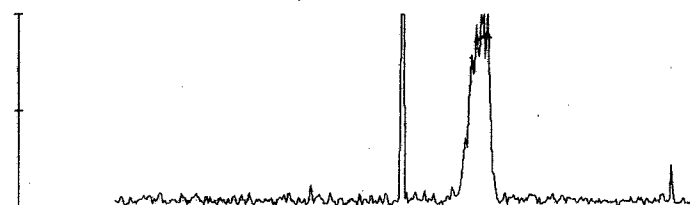
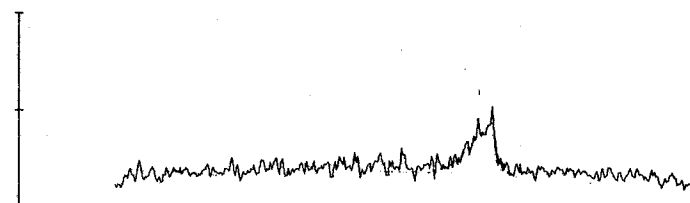
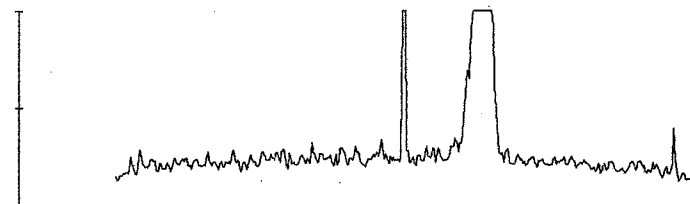
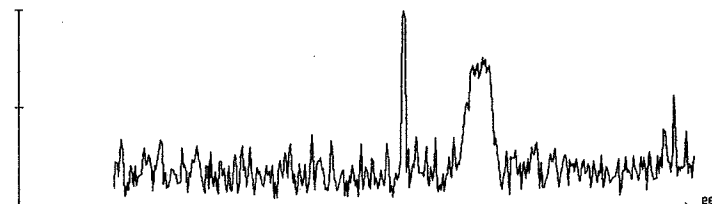
XRD-79/24



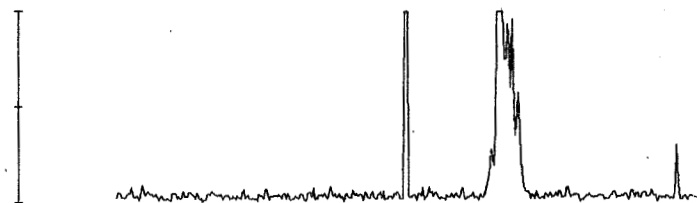
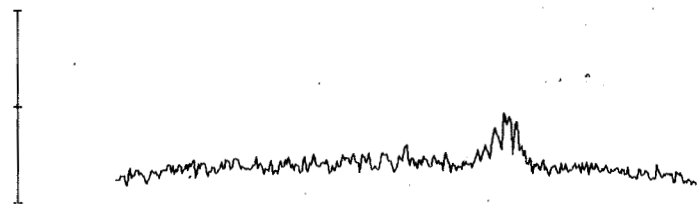
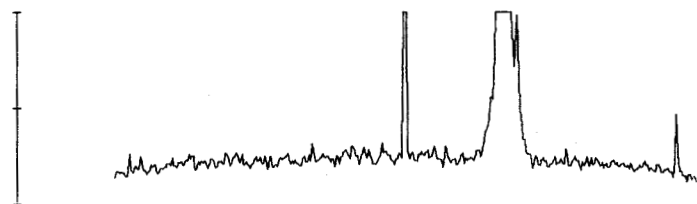
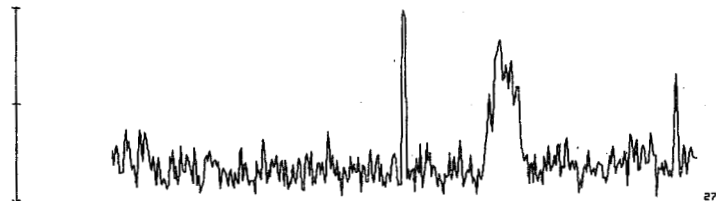
XRD-79/25



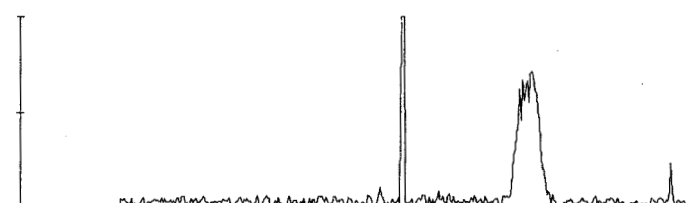
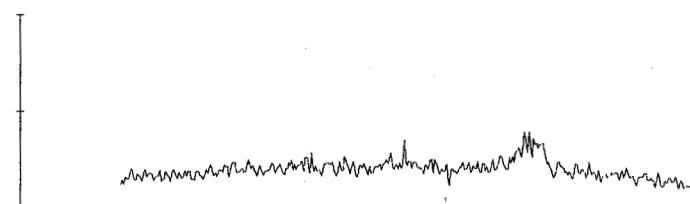
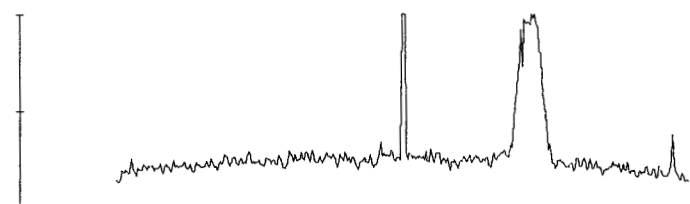
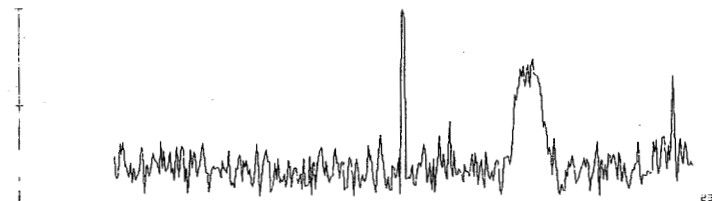
XRD-79/26



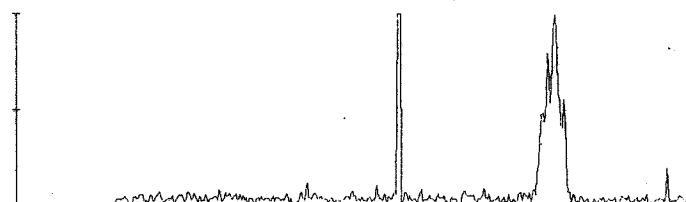
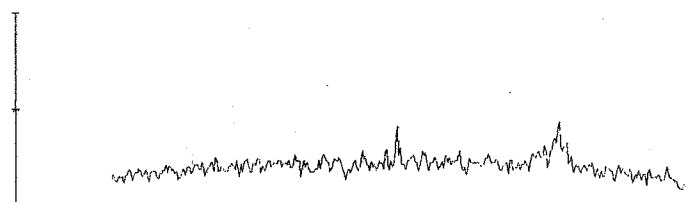
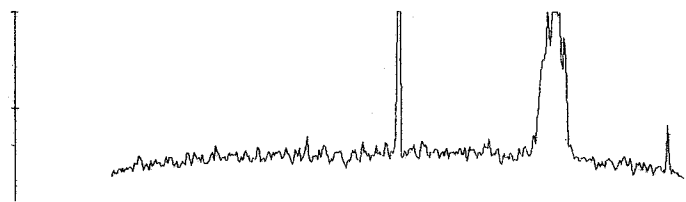
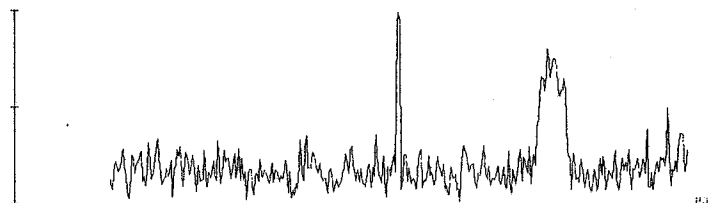
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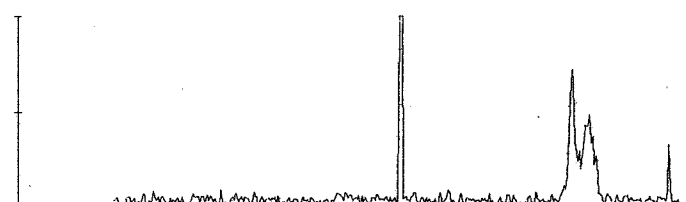
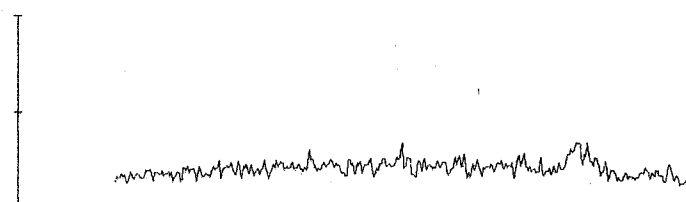
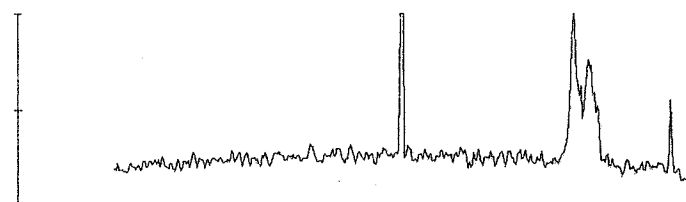
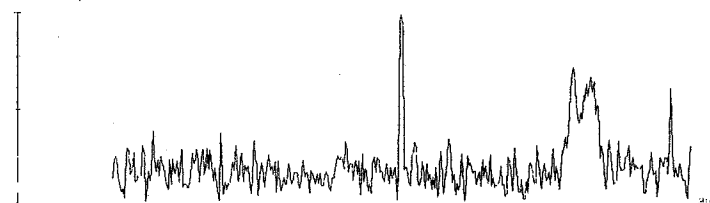
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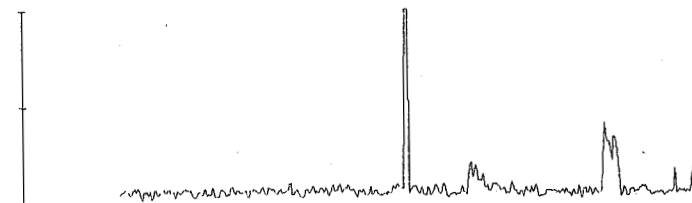
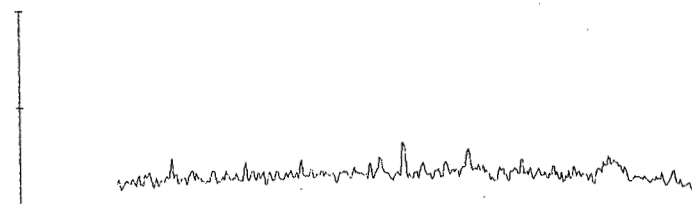
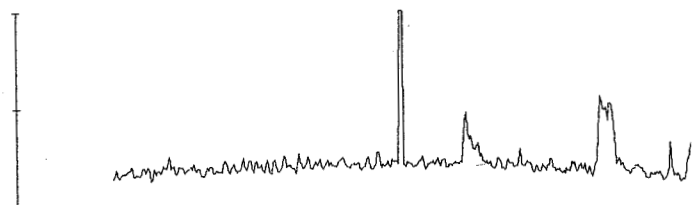
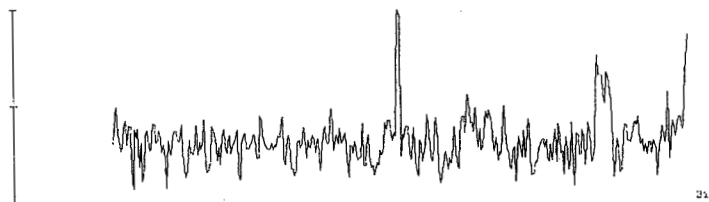
XRD-79/29



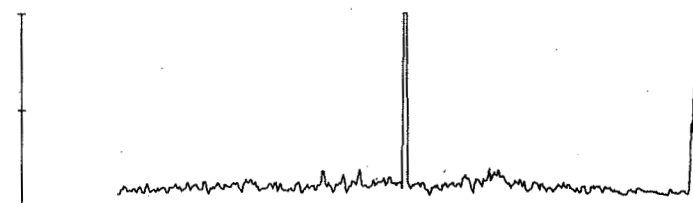
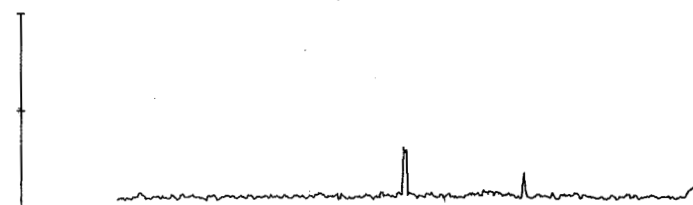
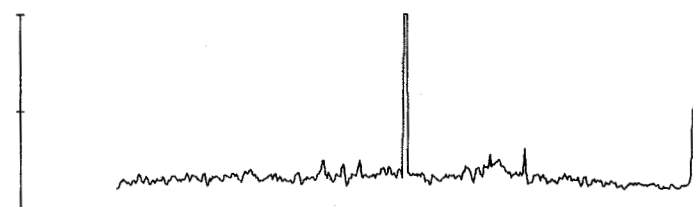
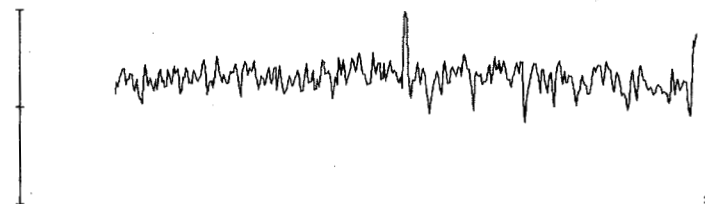
XRD-79/30



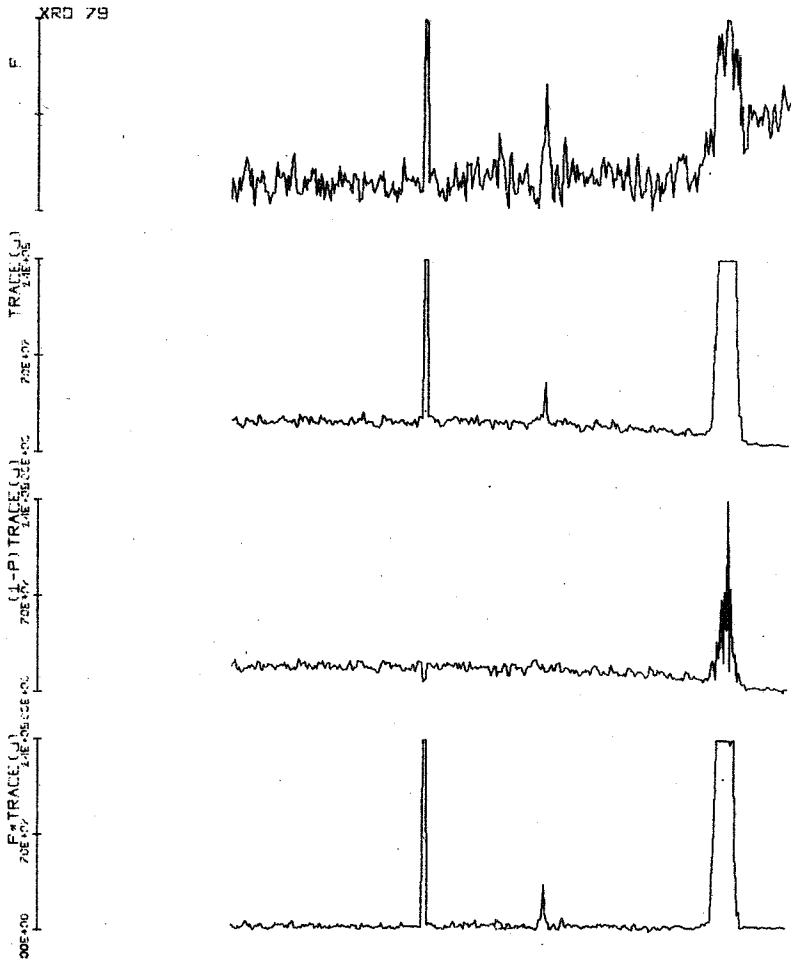
XRD-79/31



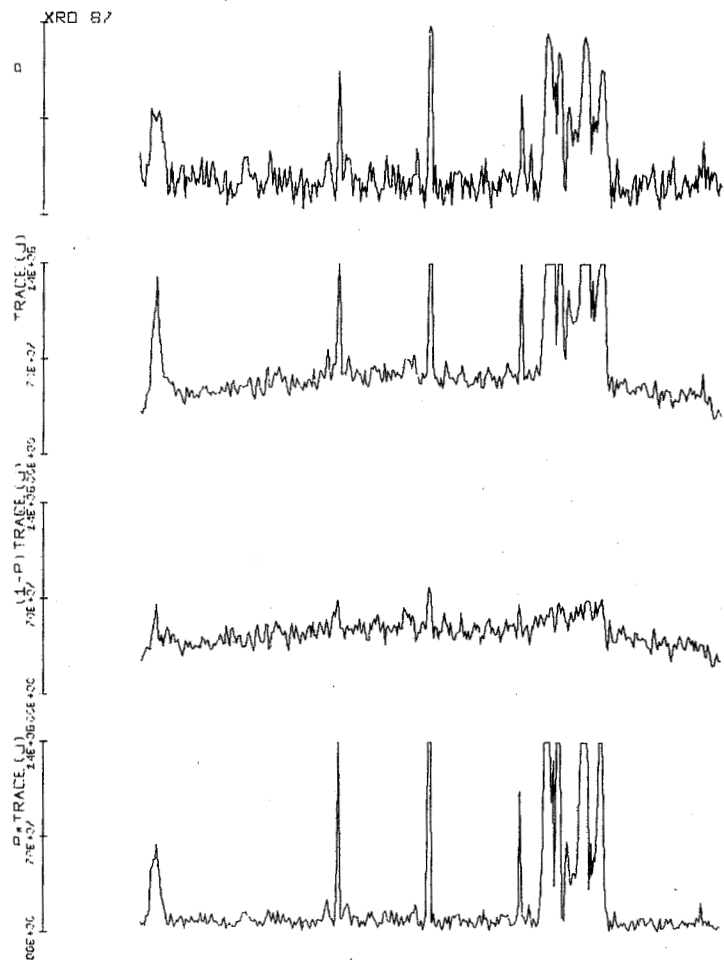
XRD-79/32



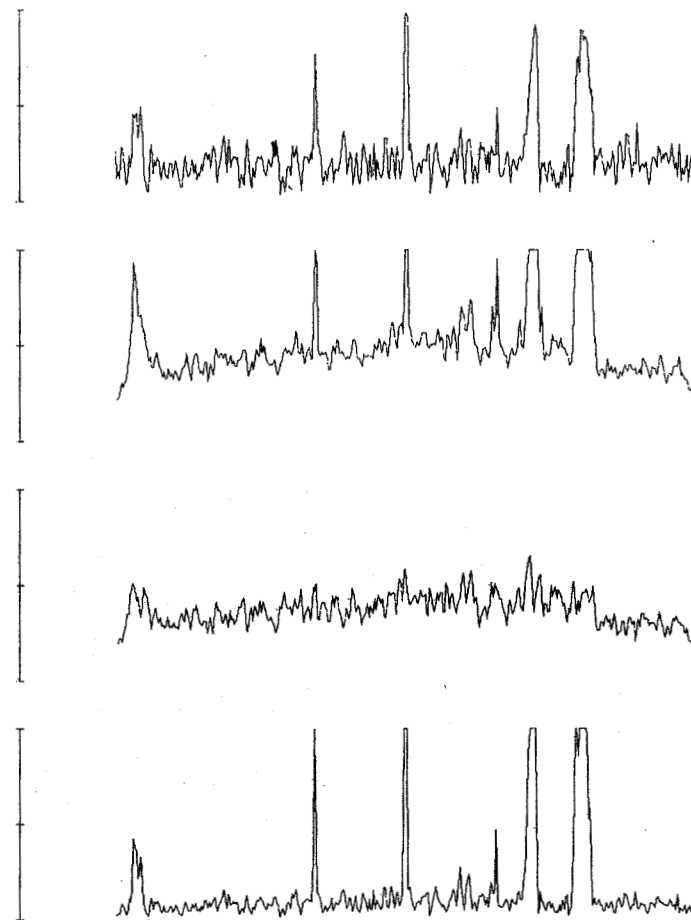
XRD-79/33



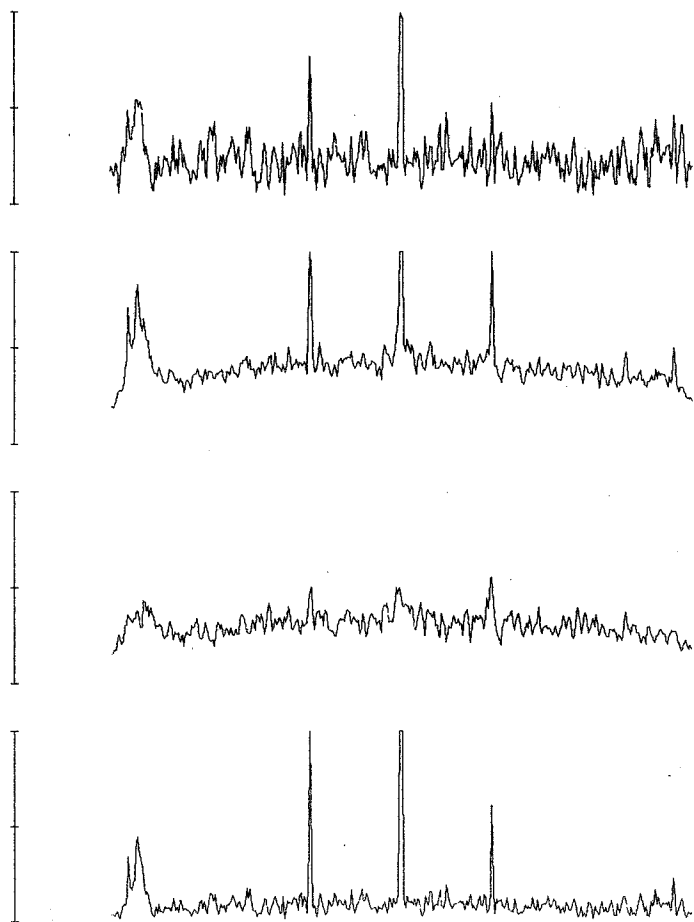
XRD-87/1



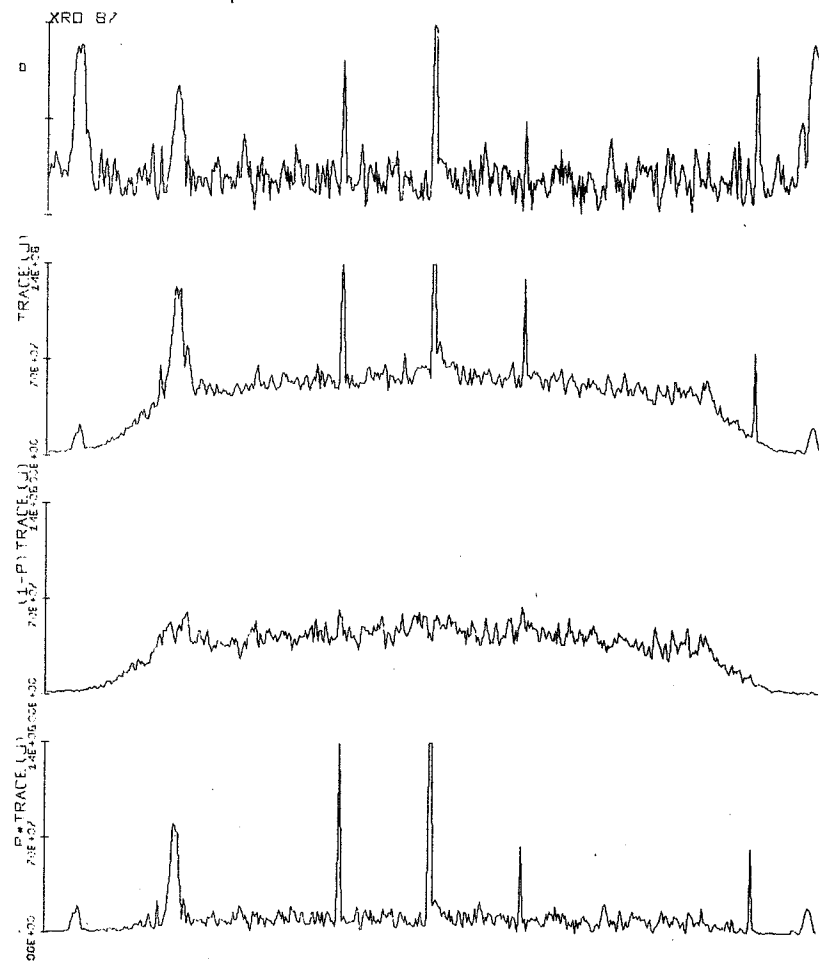
XRD-87/2



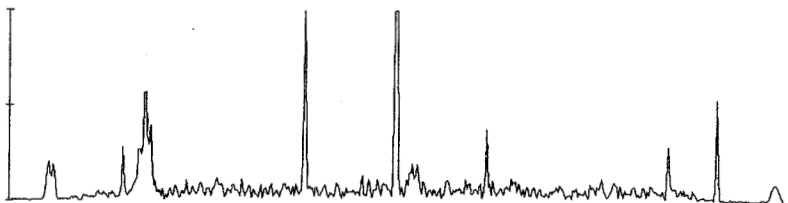
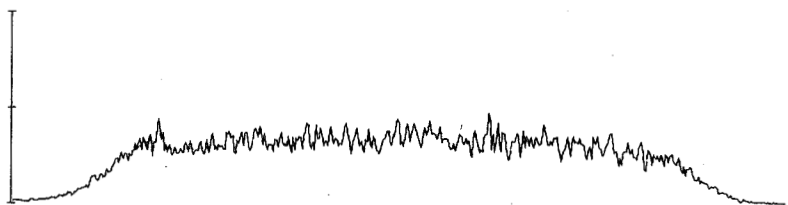
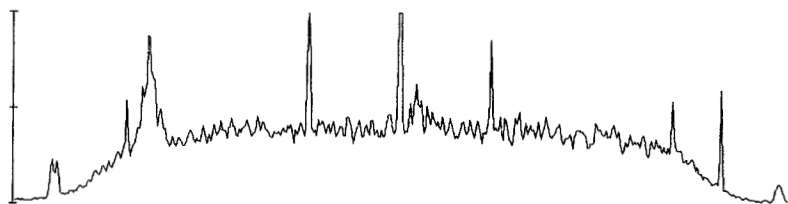
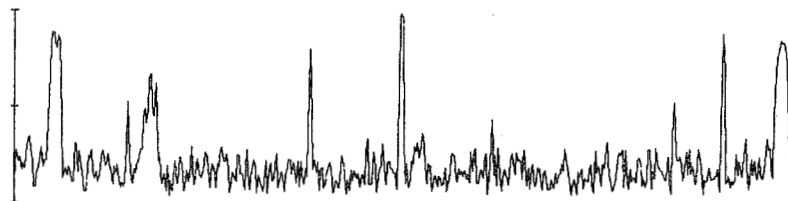
XRD-87/3



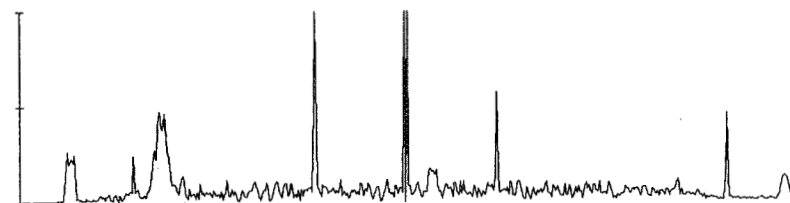
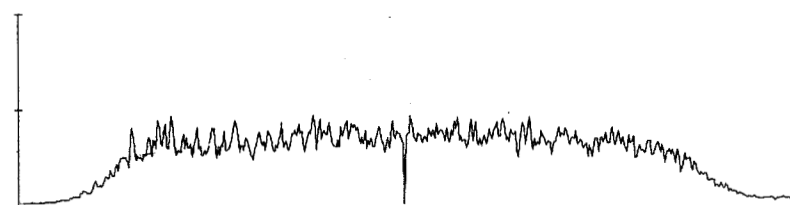
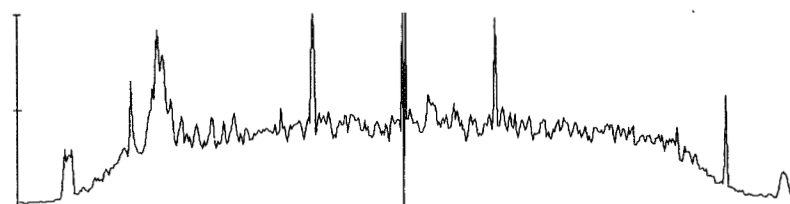
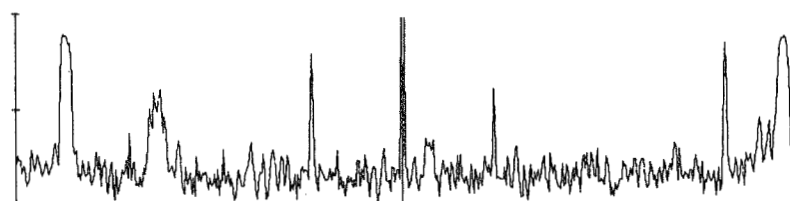
XRD-87/4



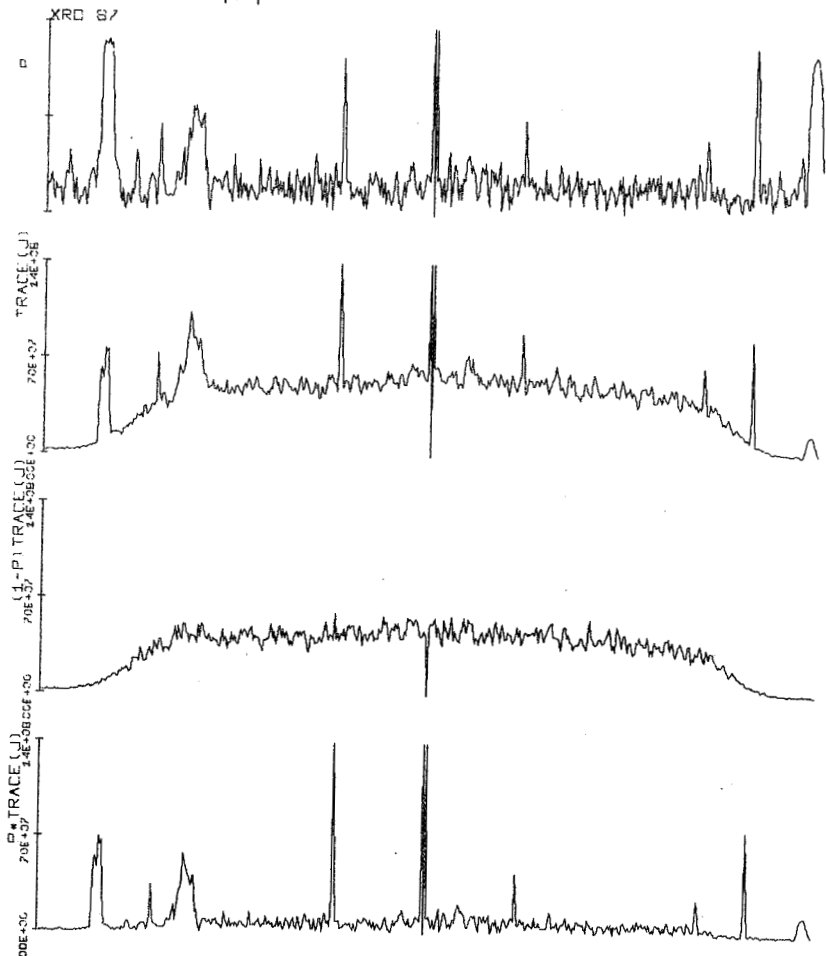
XRD-87/5



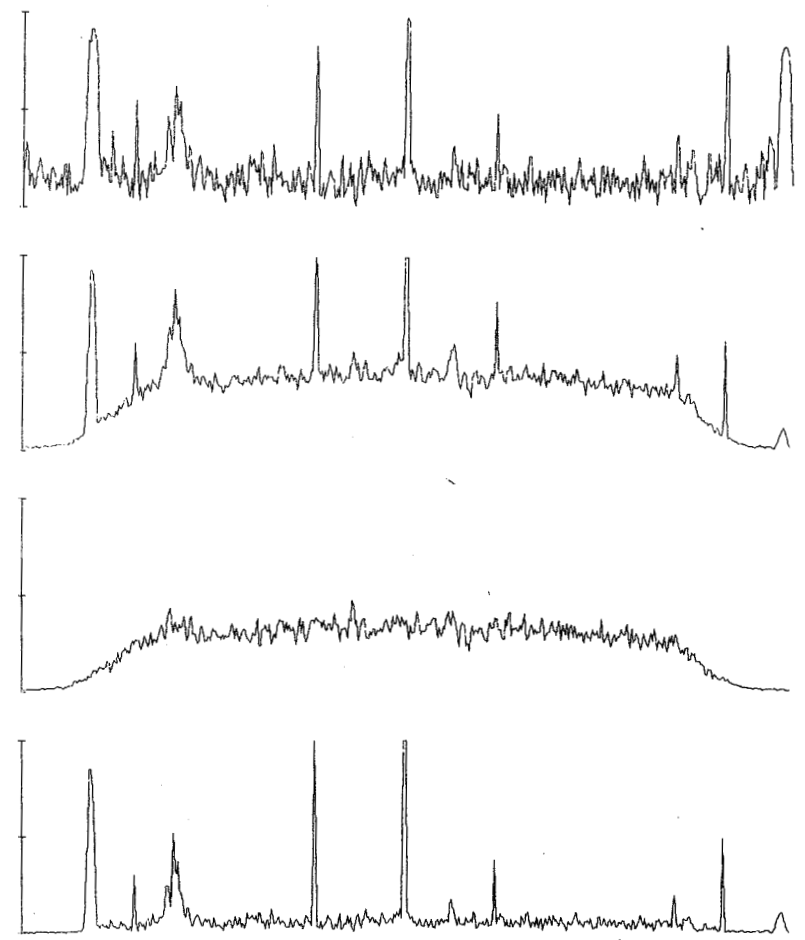
XRD-87/6



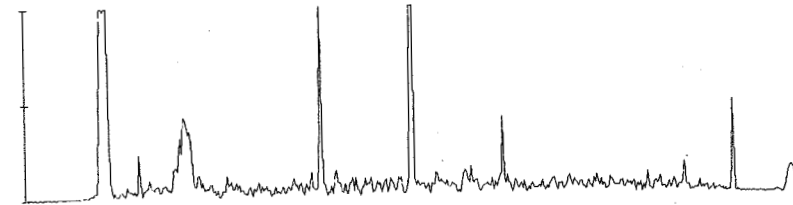
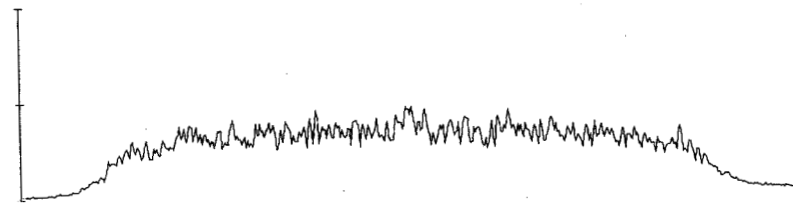
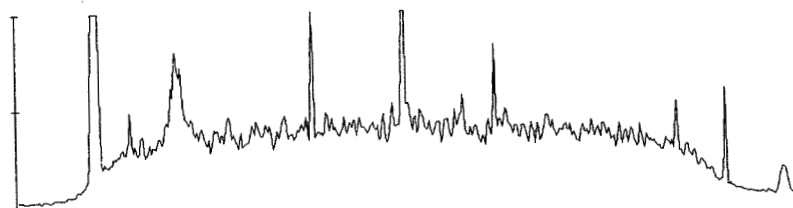
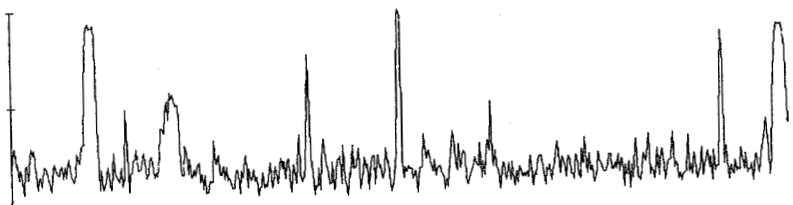
XRD-87/7



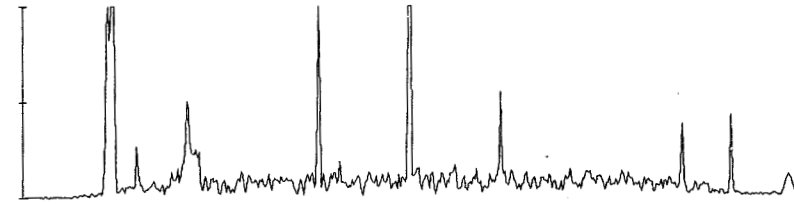
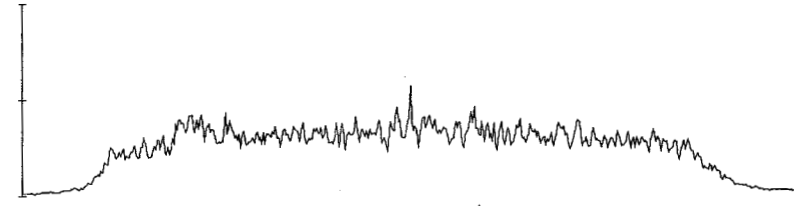
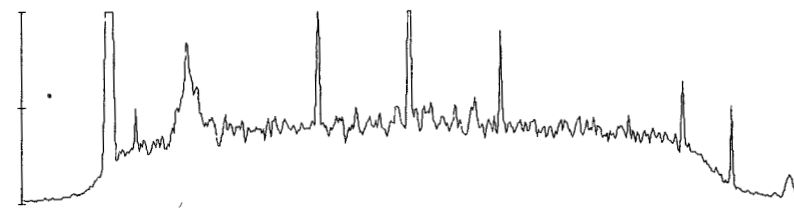
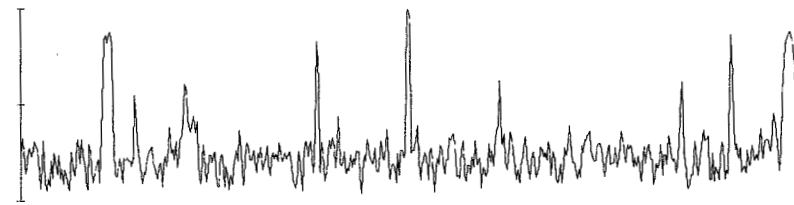
XRD-87/8



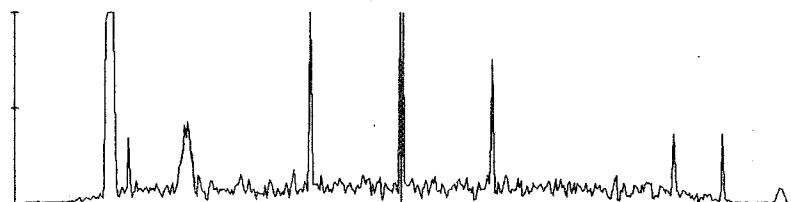
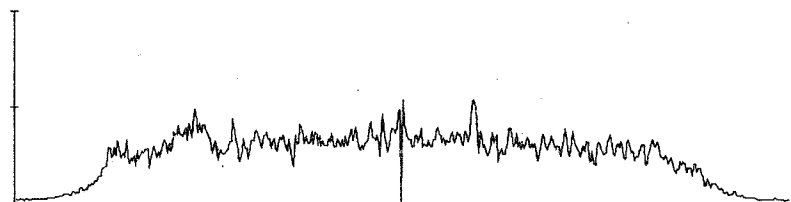
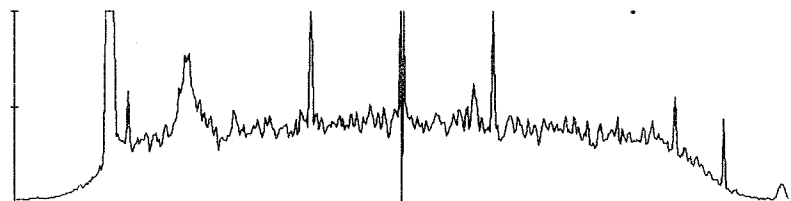
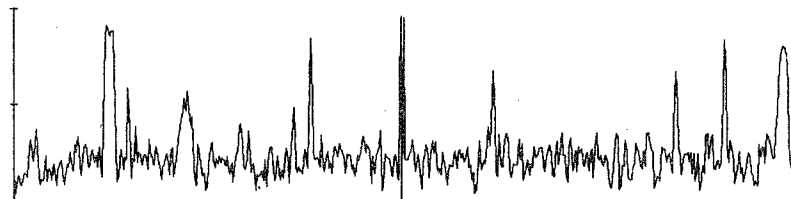
XRD-87/9



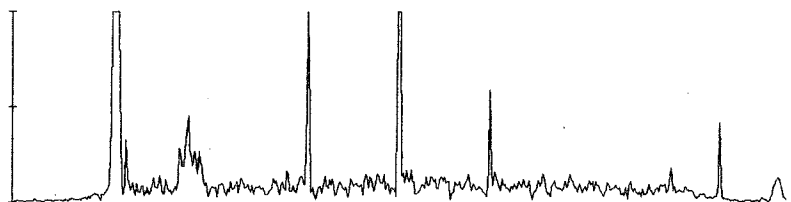
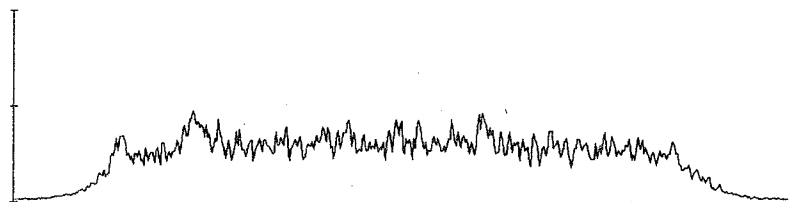
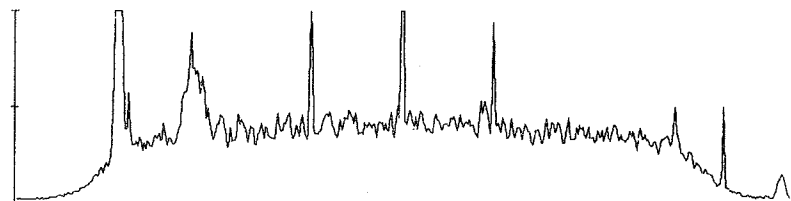
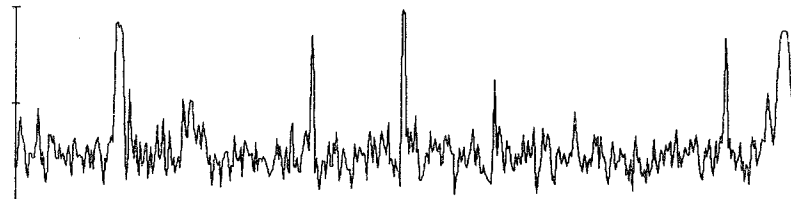
XRD-87/10



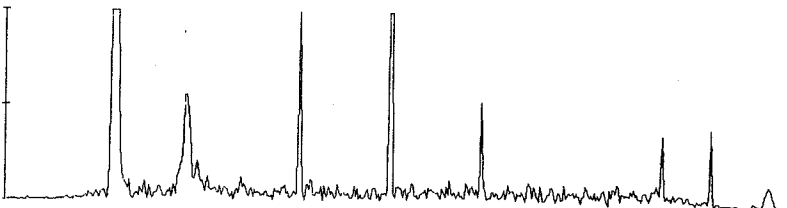
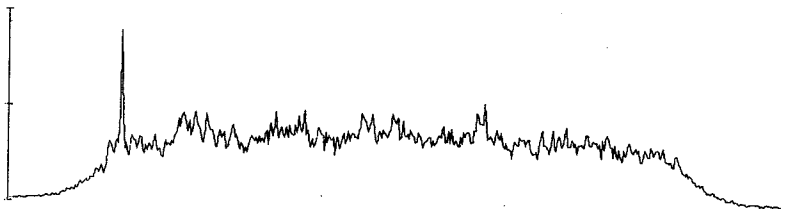
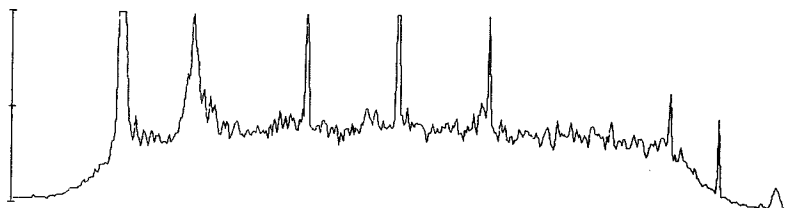
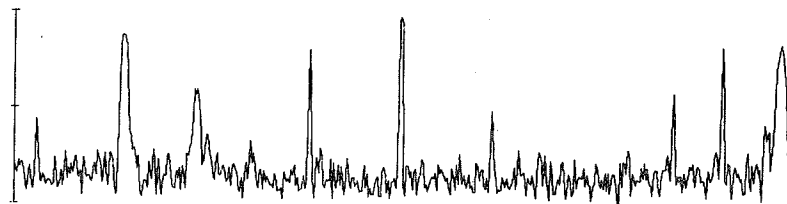
XRD-87/11



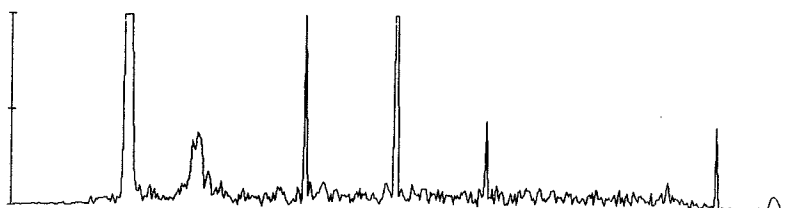
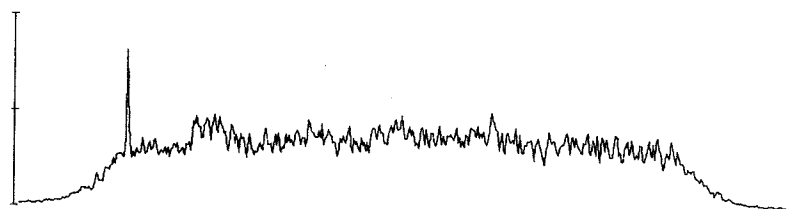
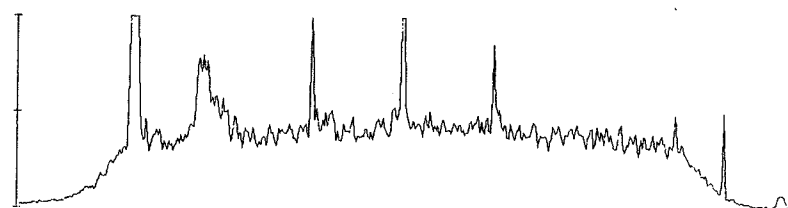
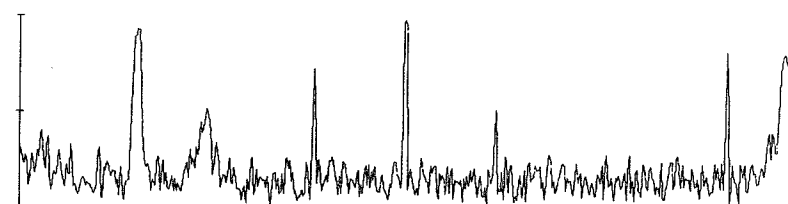
XRD-87/12



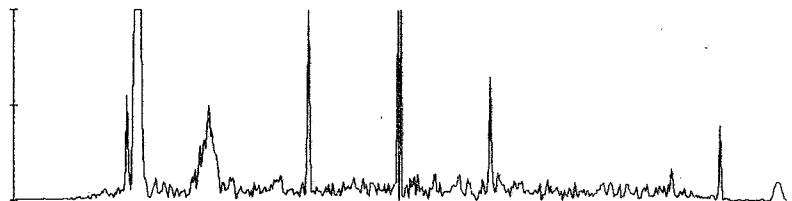
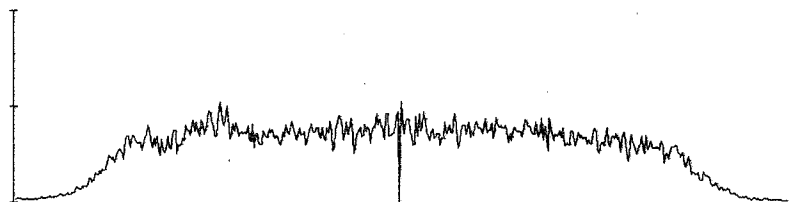
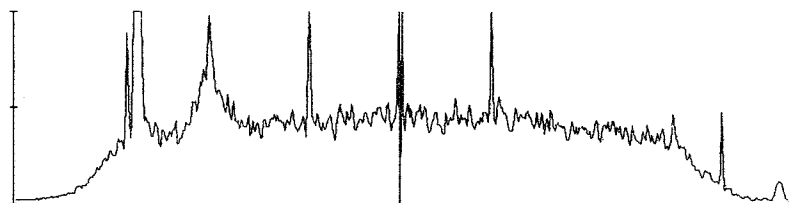
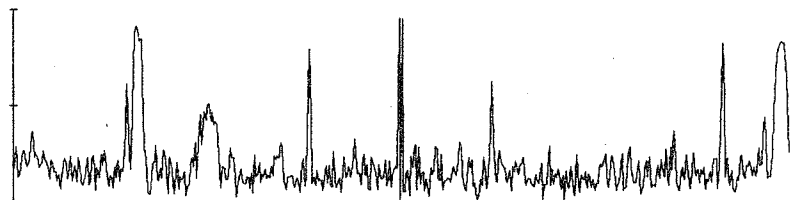
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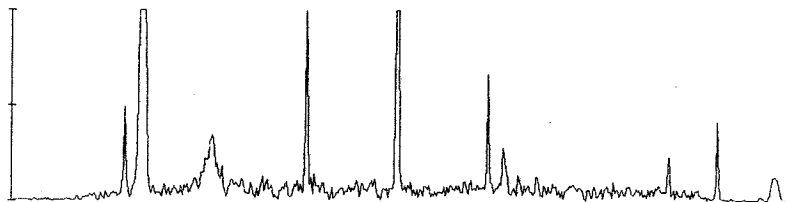
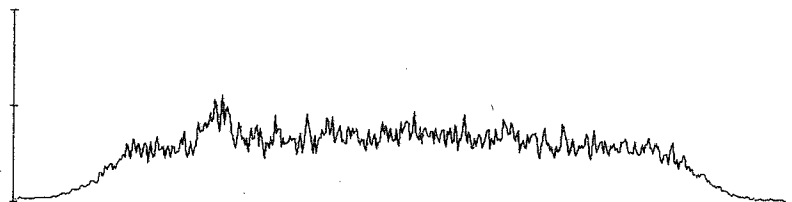
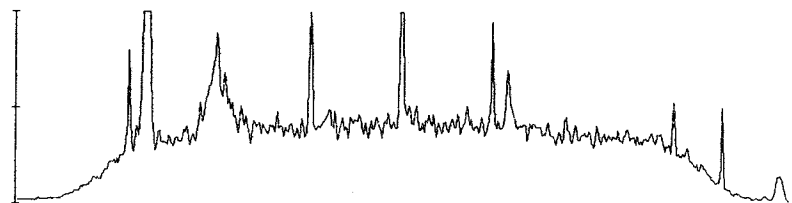
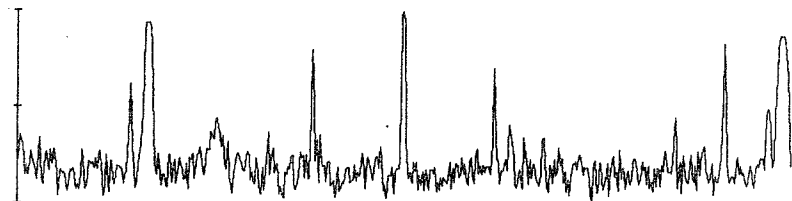
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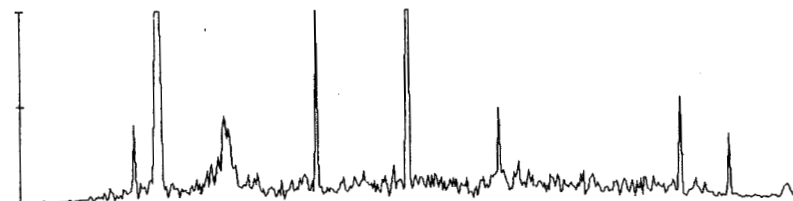
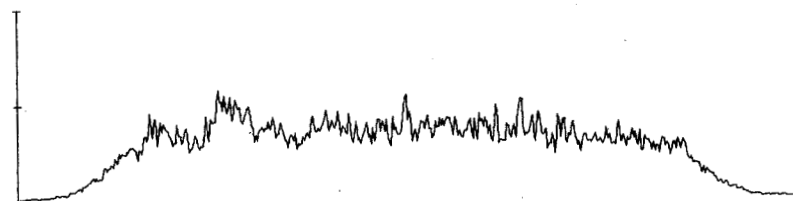
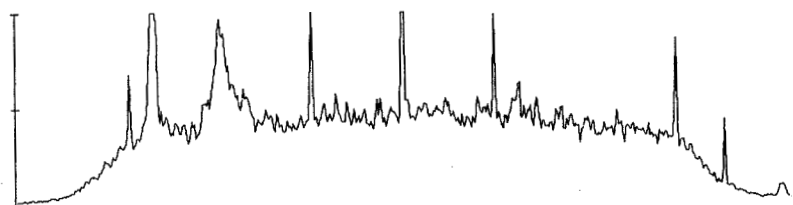
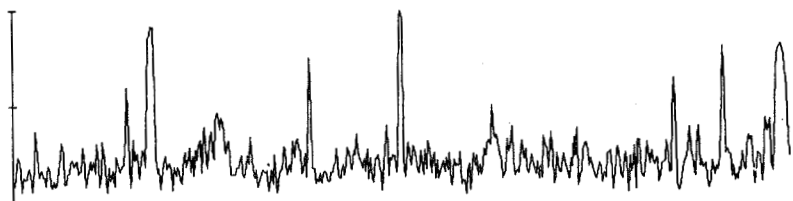
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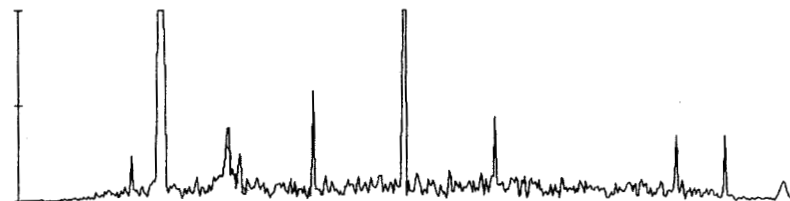
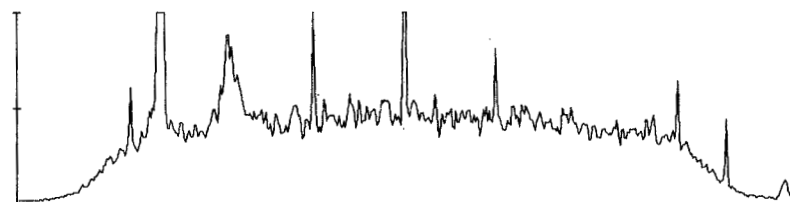
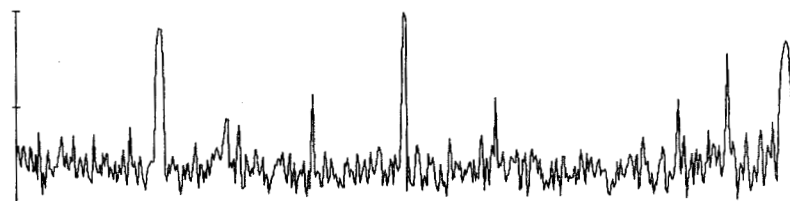
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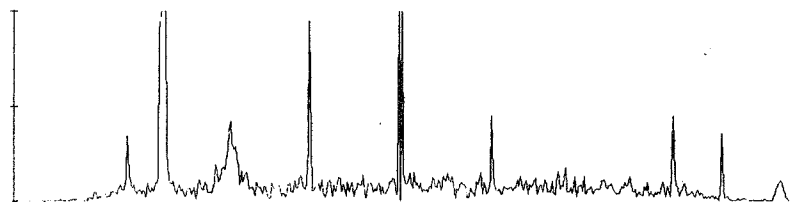
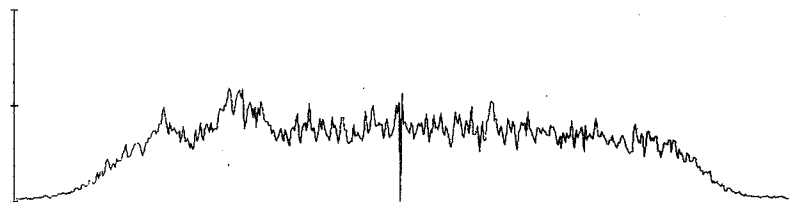
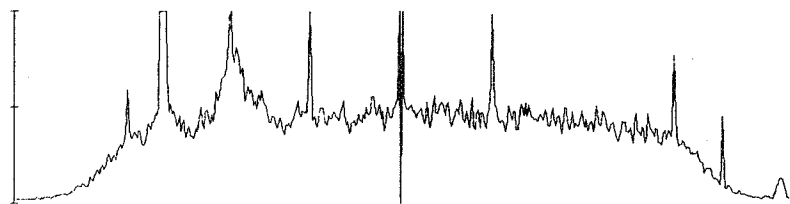
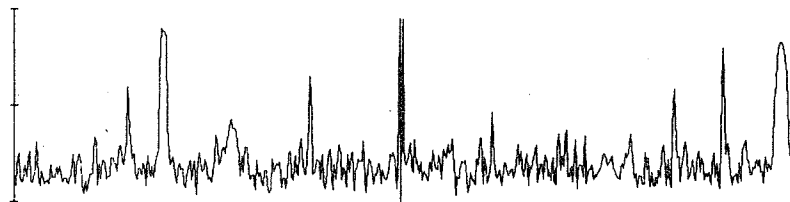
XRD-87/17



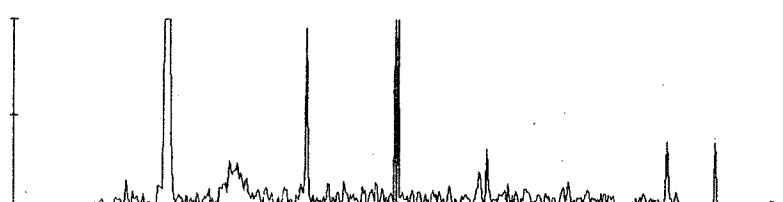
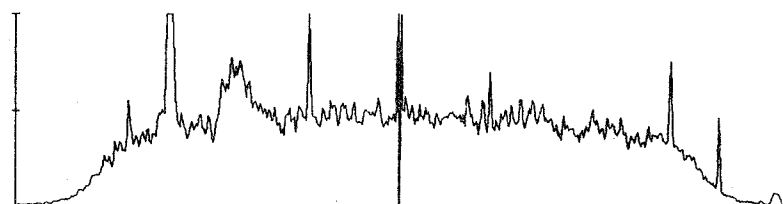
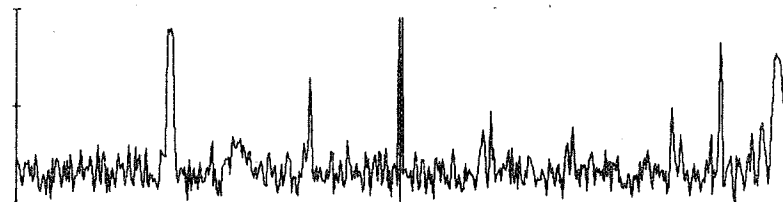
XRD-87/18



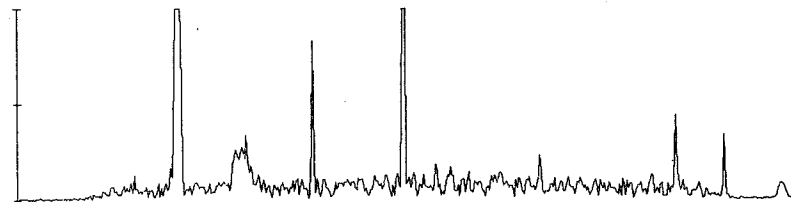
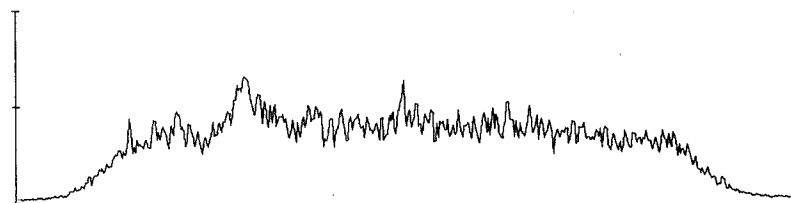
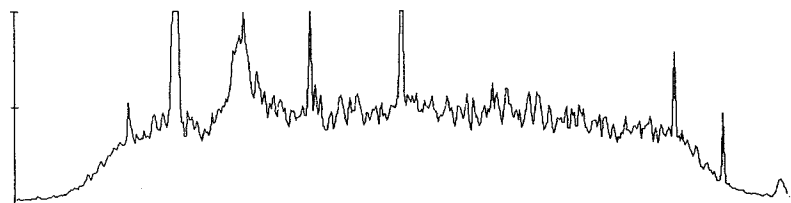
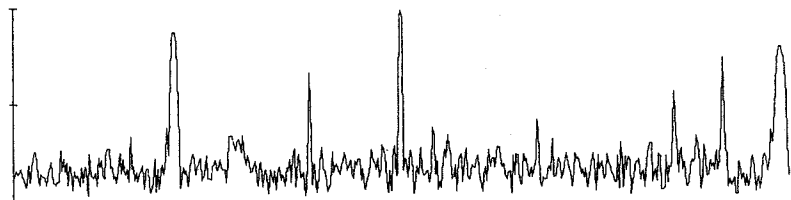
XRD-87/19



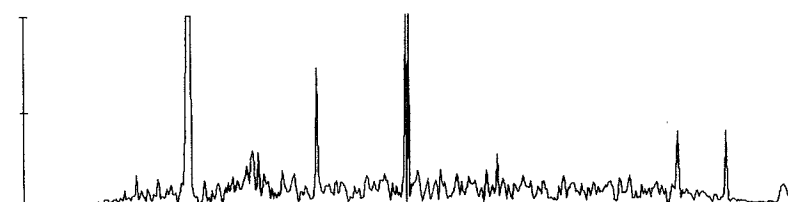
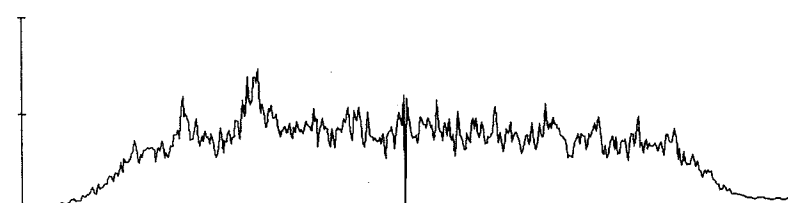
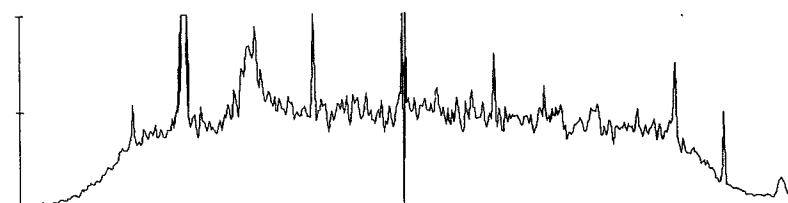
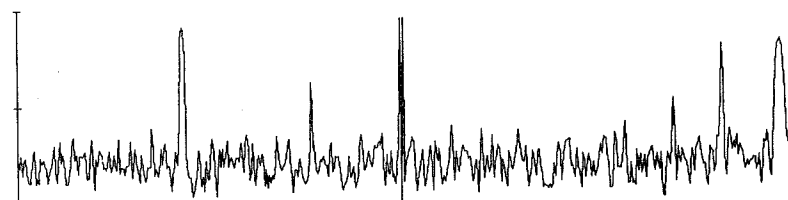
XRD-87/20



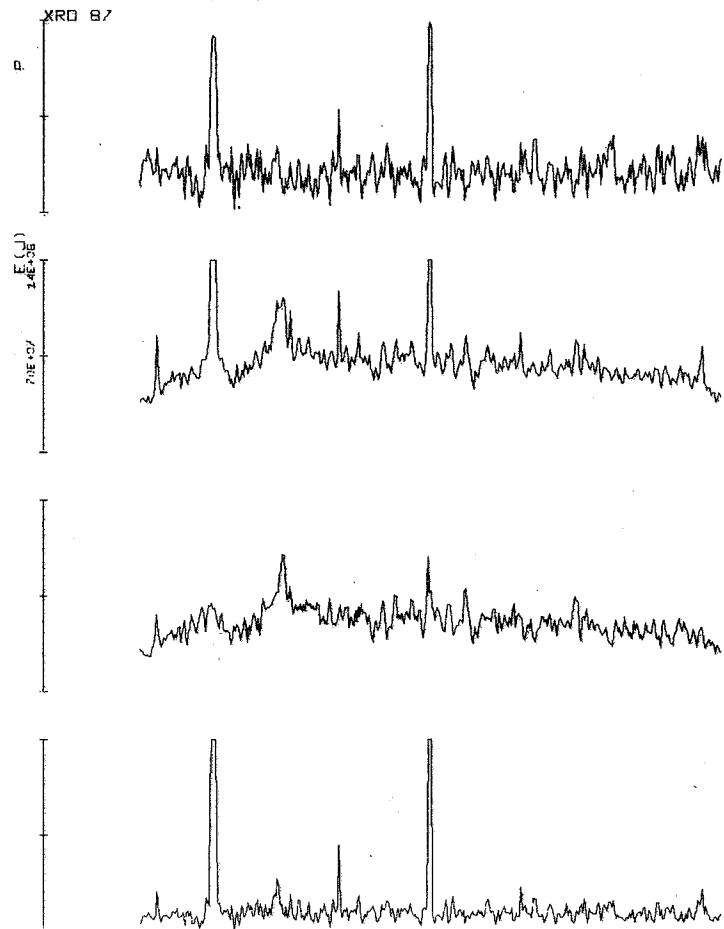
XRD-87/21



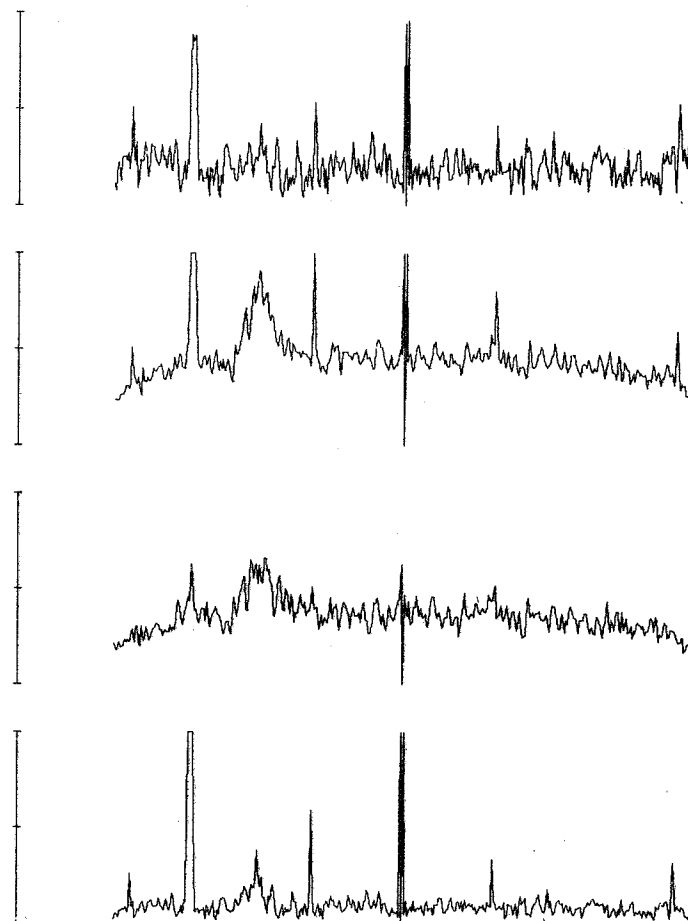
XRD-87/22



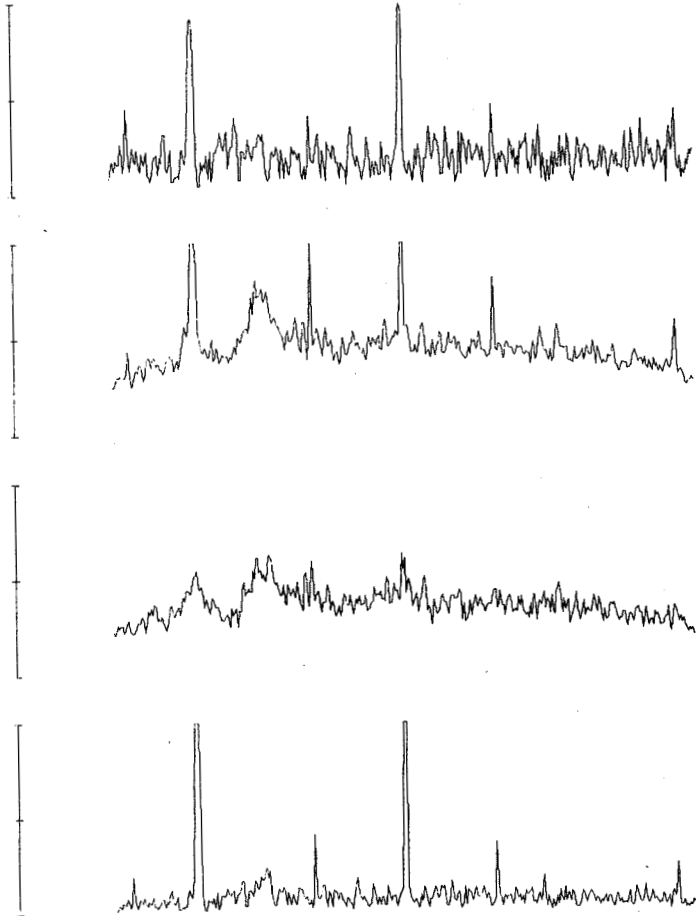
XRD-87/23



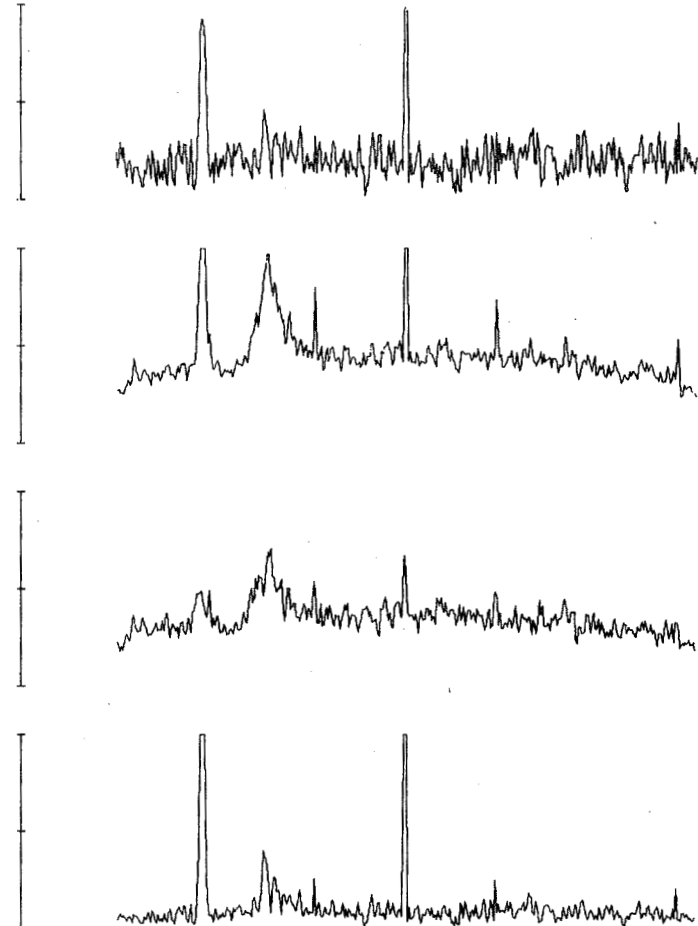
XRD-87/24



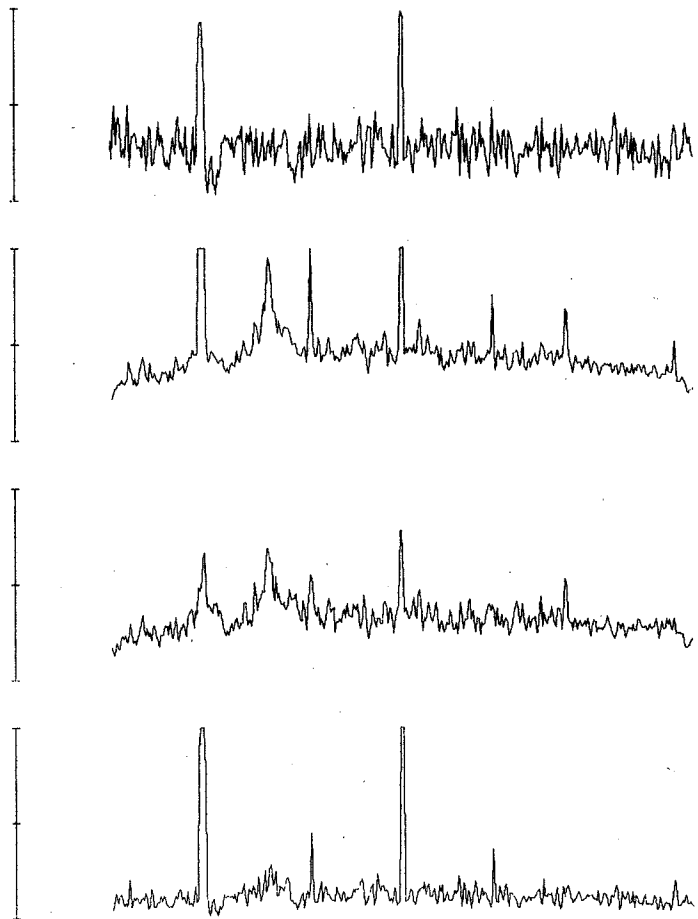
XRD-87/25



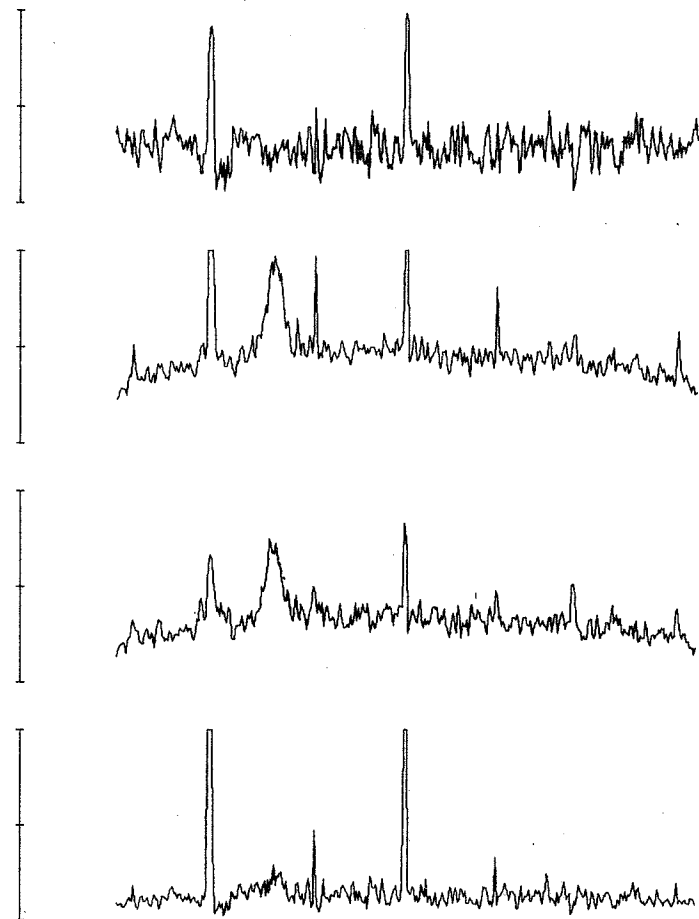
XRD-87/26



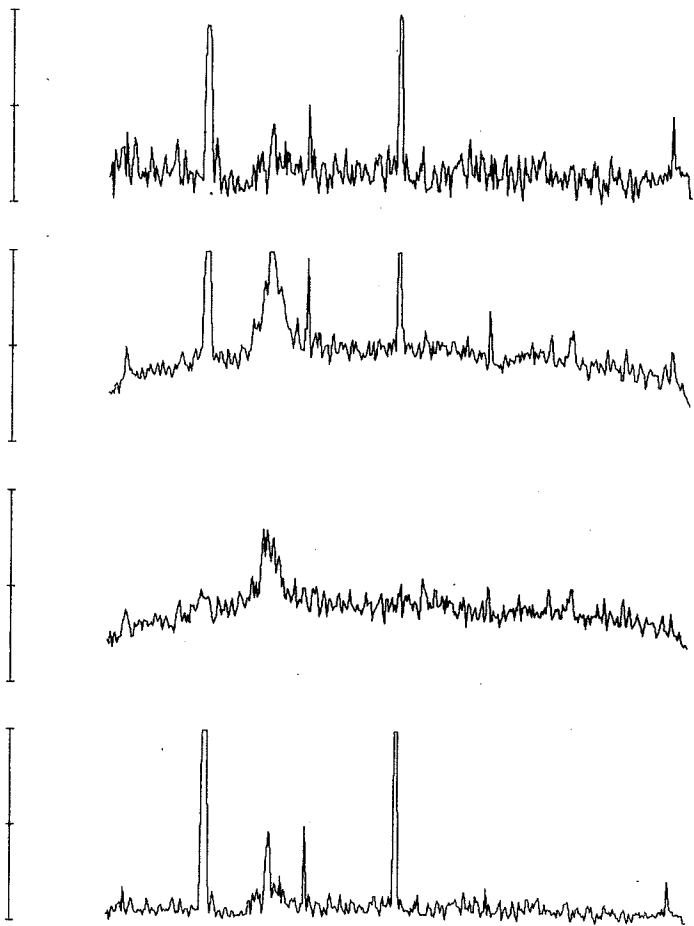
XRD-87/27



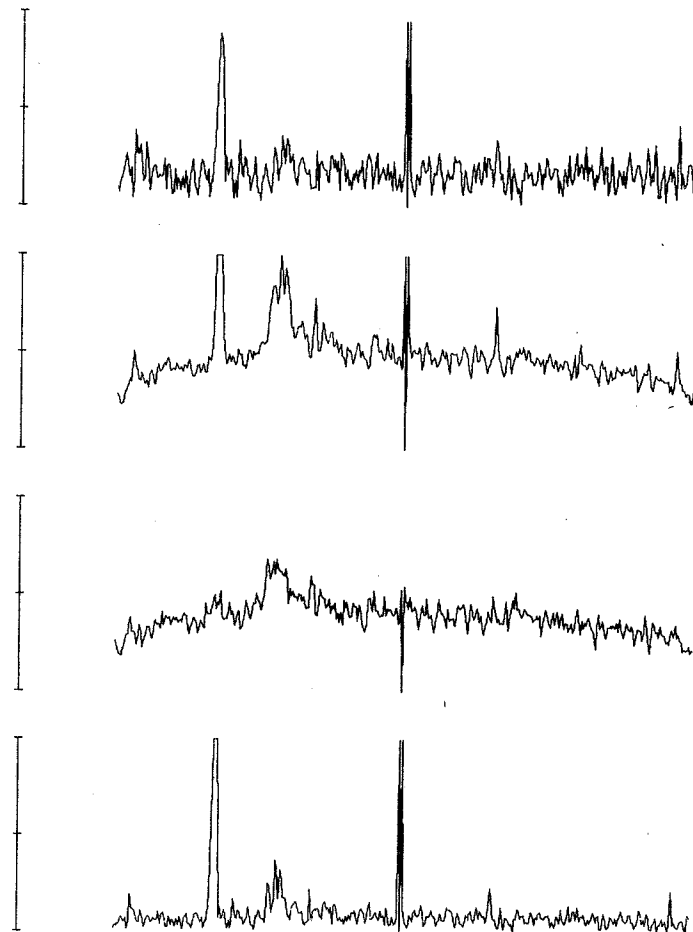
XRD-87/28



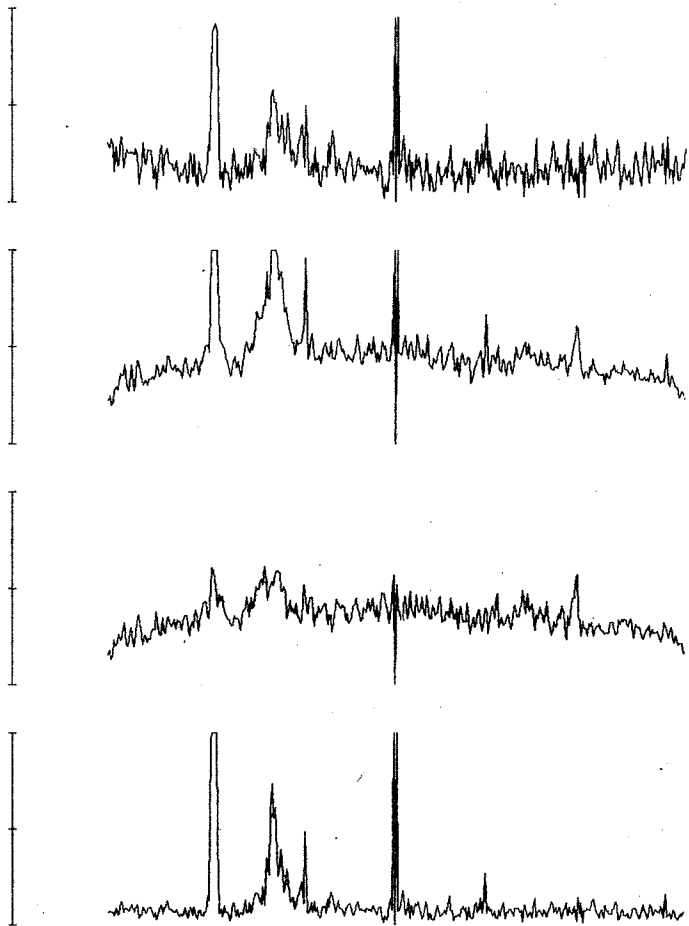
XRD-87/29



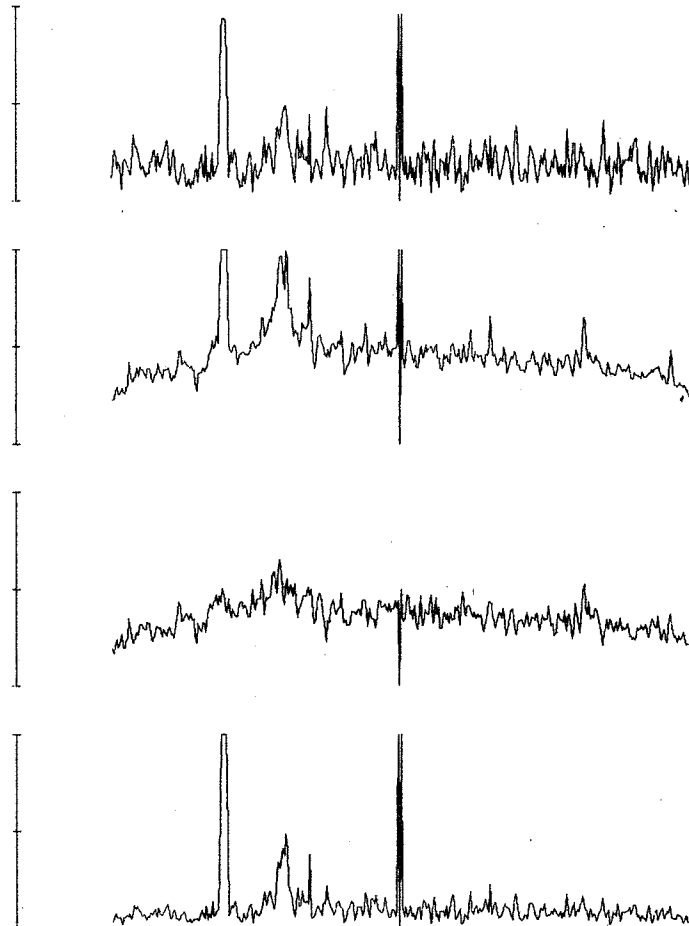
XRD-87/30



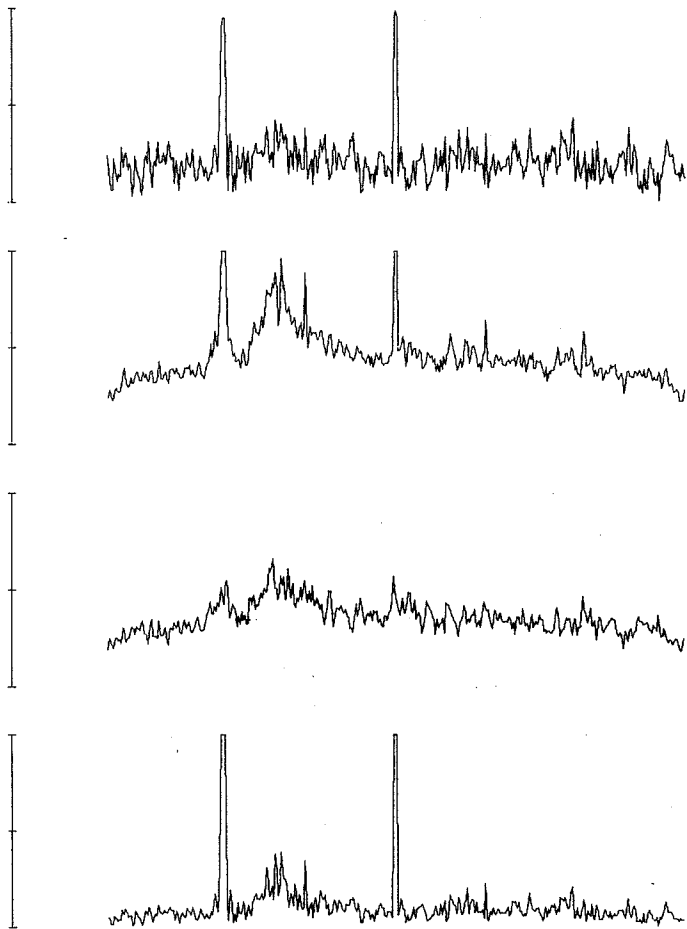
XRD-87/31



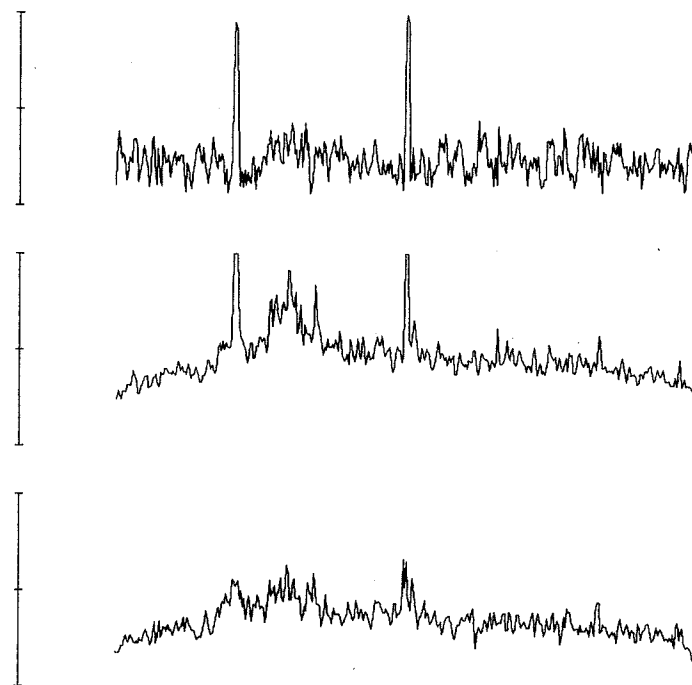
XRD-87/32



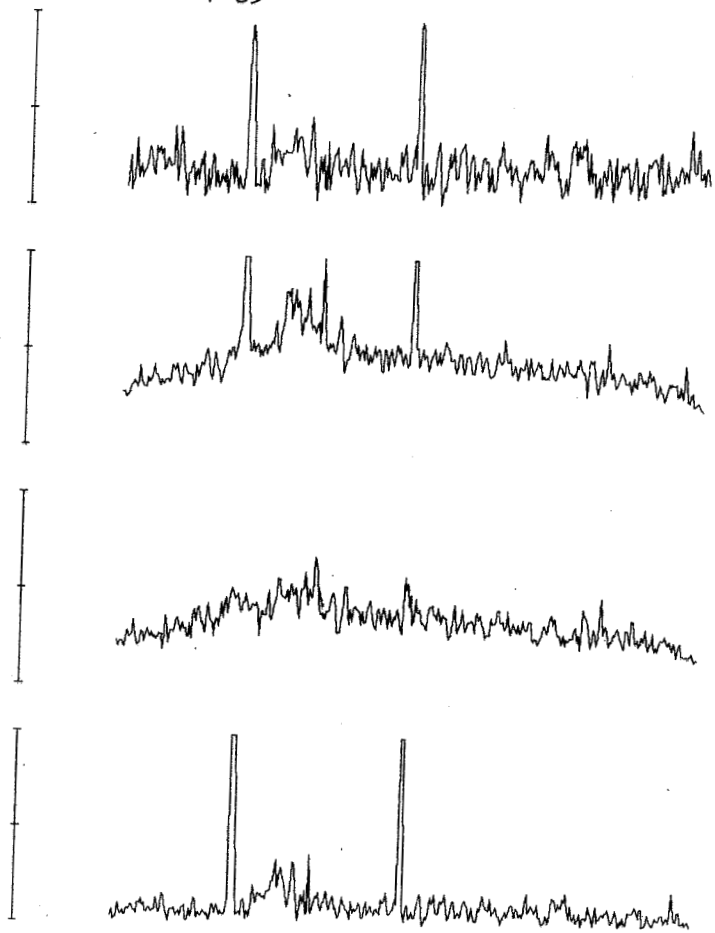
XRD-87/33



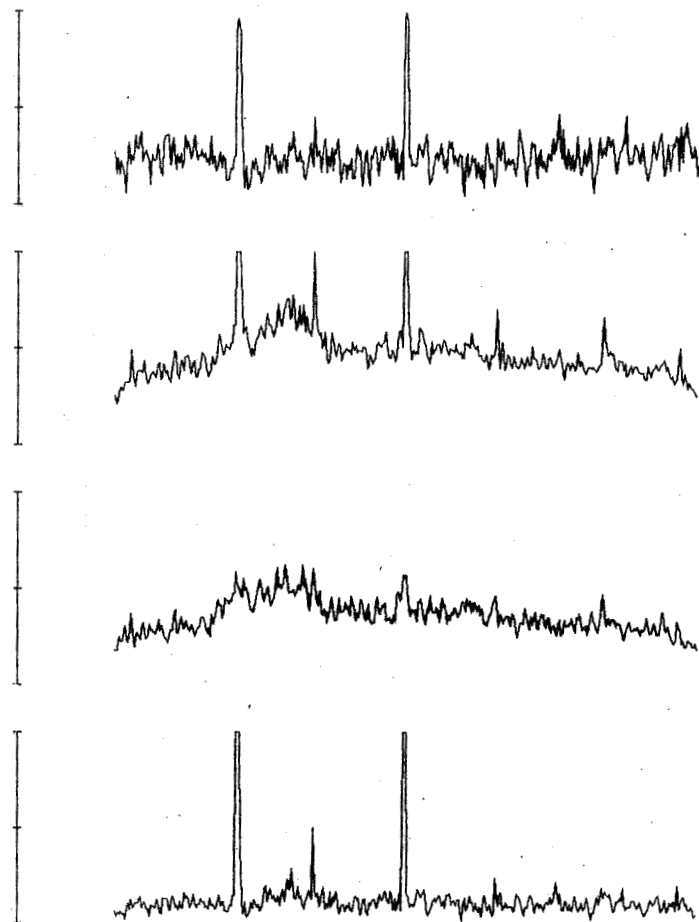
XRD-87/34



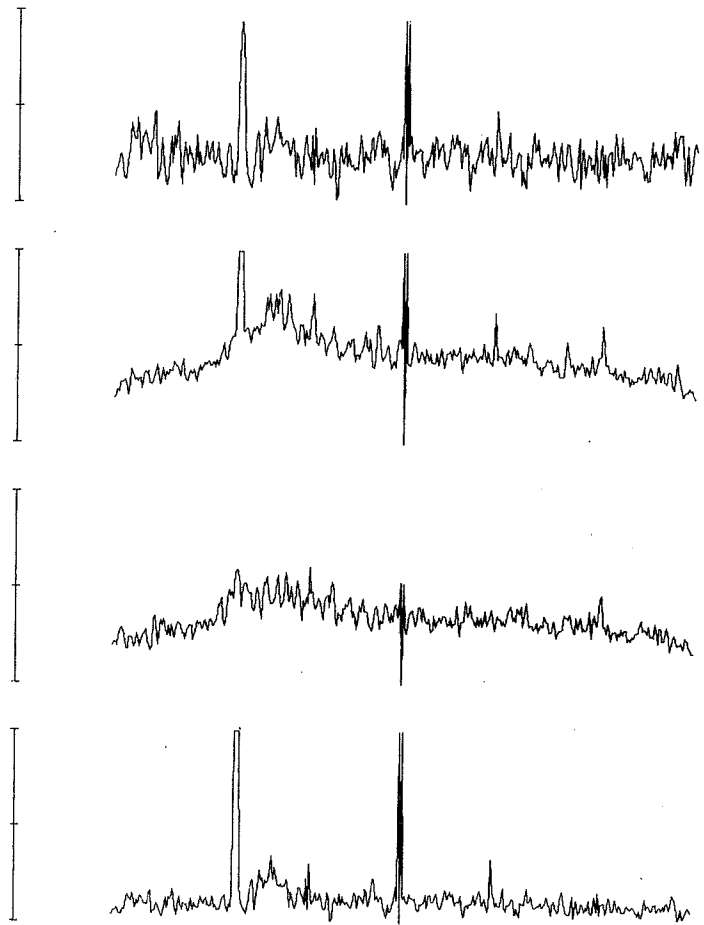
XRD-87/35



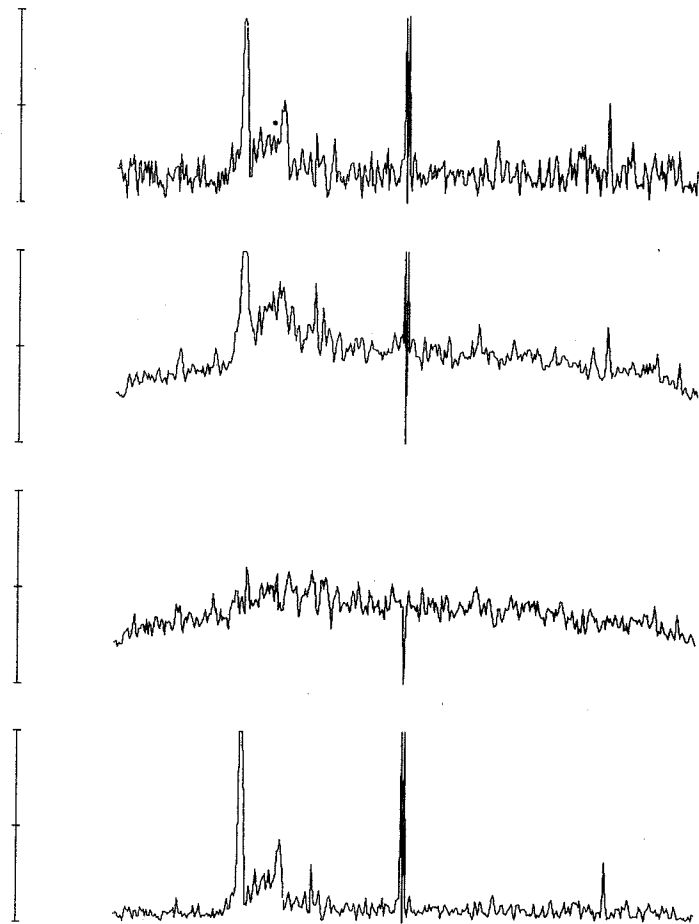
XRD-87/36



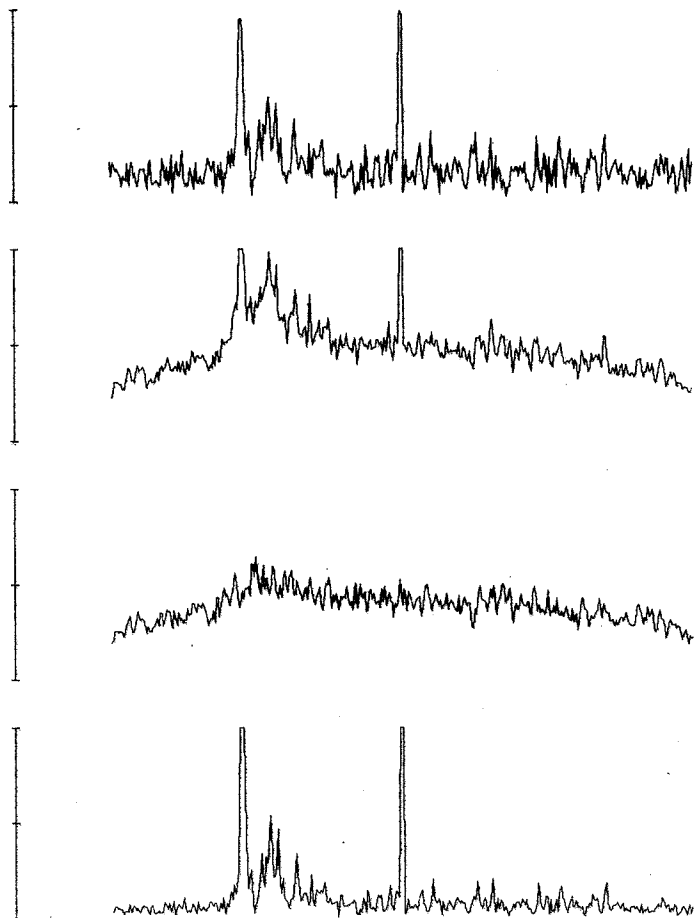
XRD-87/37



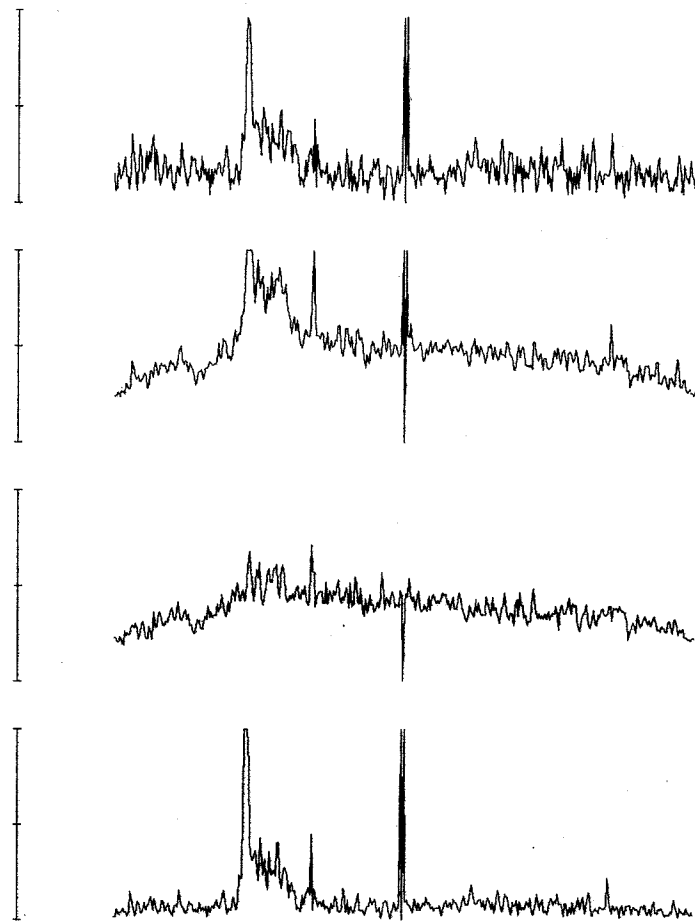
XRD-87/38



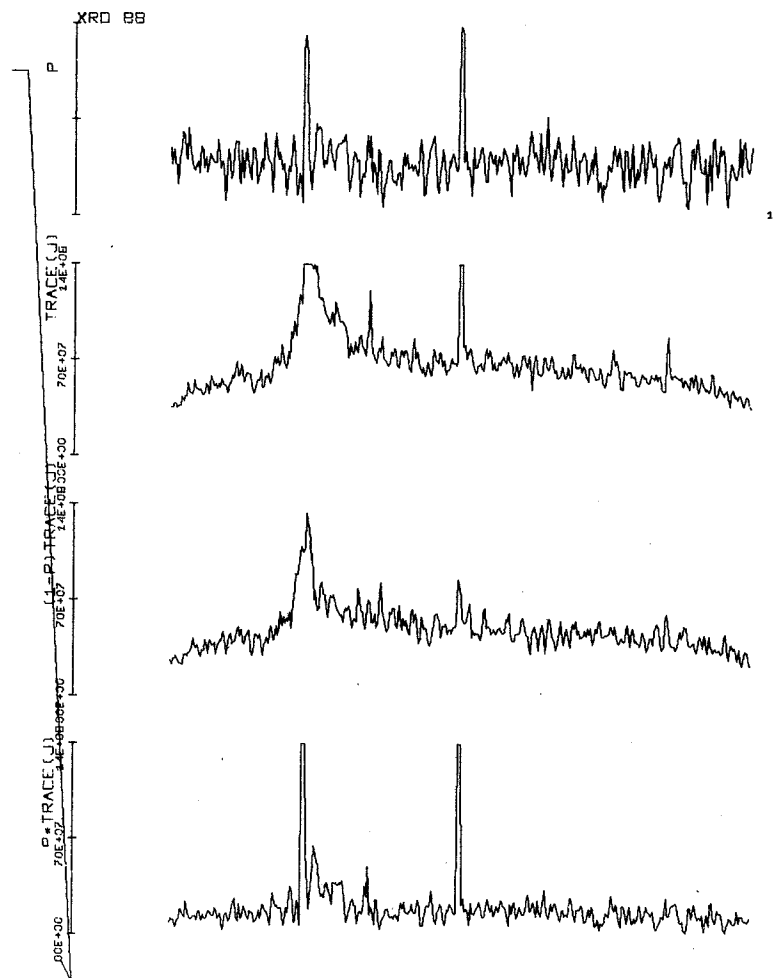
XRD-87/39



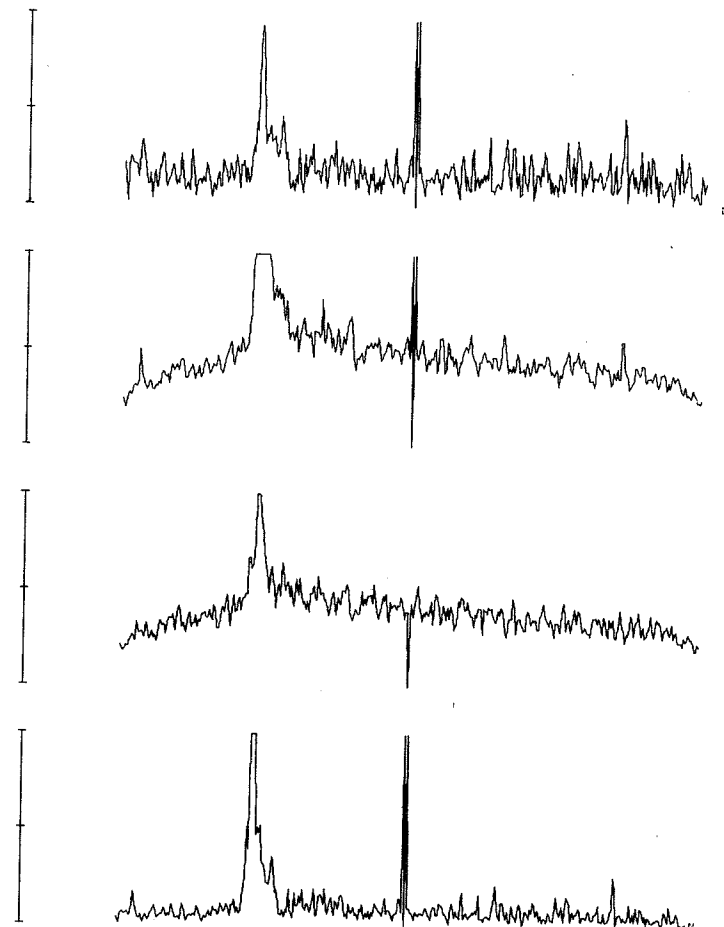
XRD-87/40



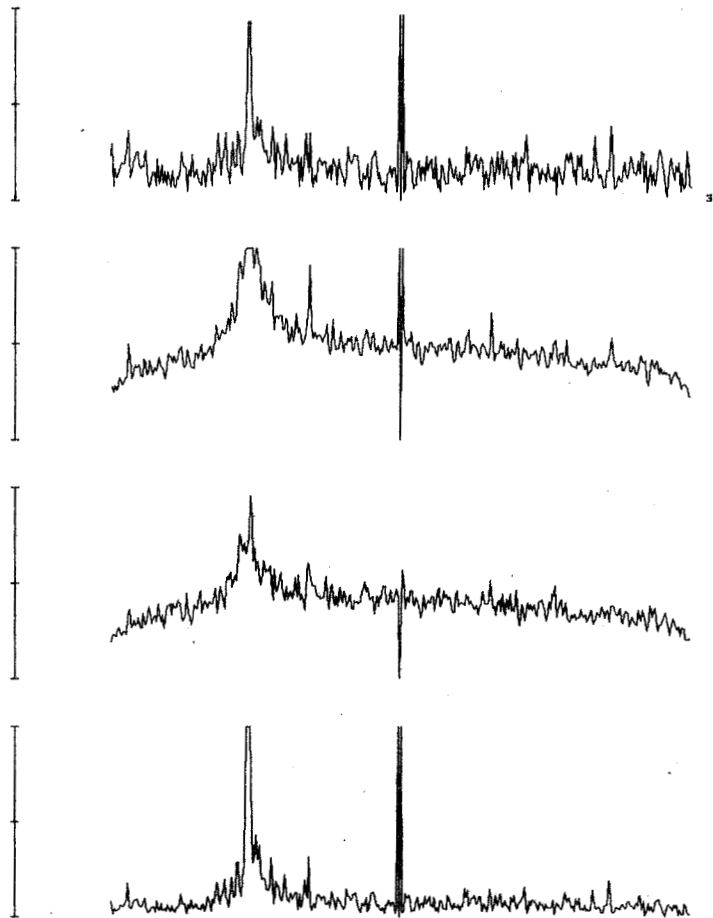
XRD-88/1



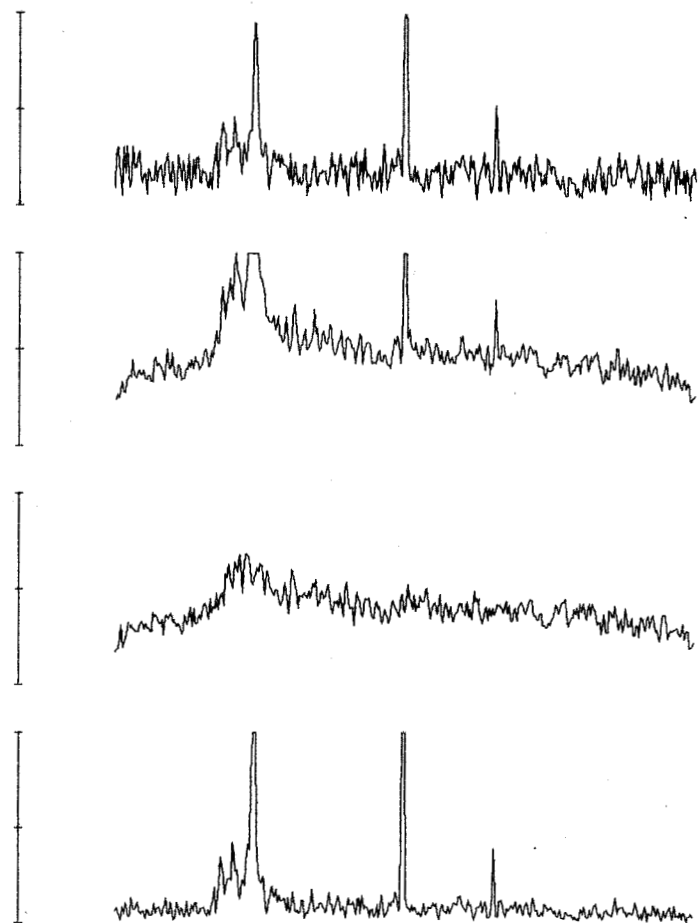
XRD-88/2



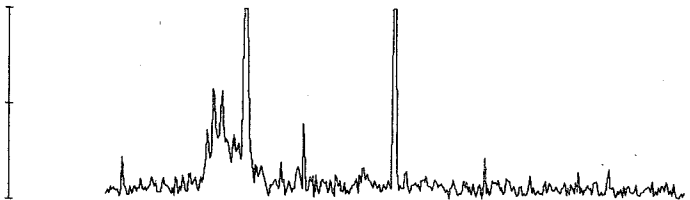
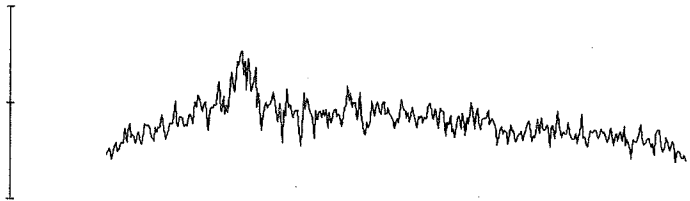
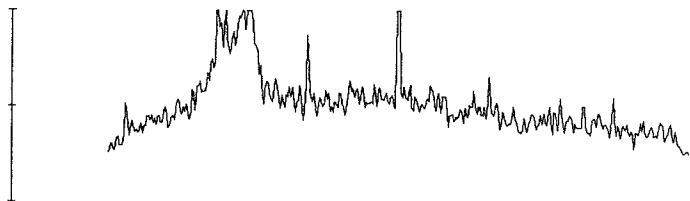
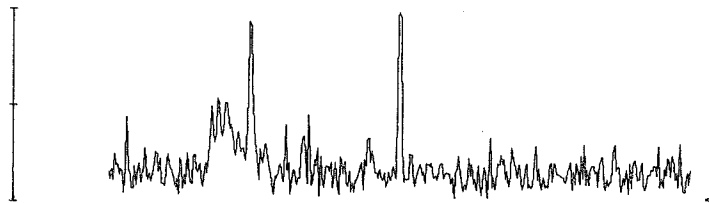
XRD-88/3



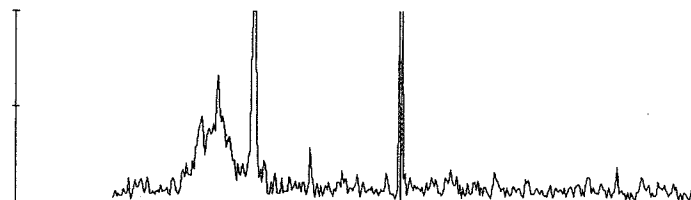
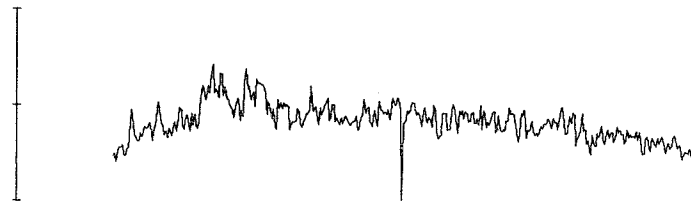
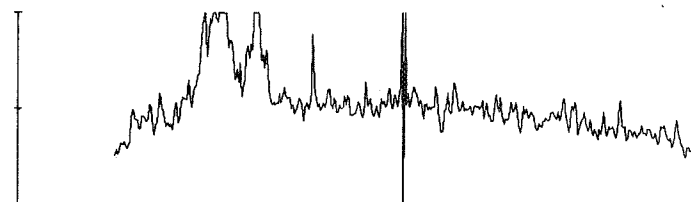
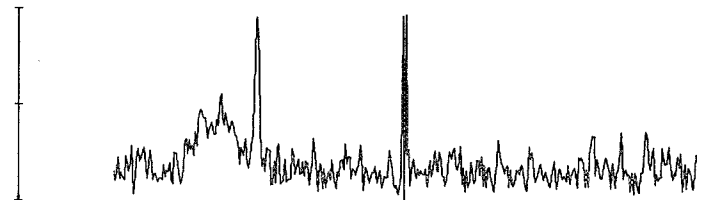
XRD-88/4



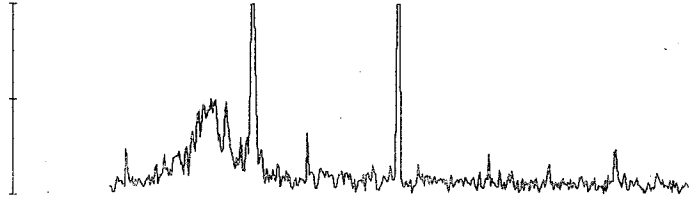
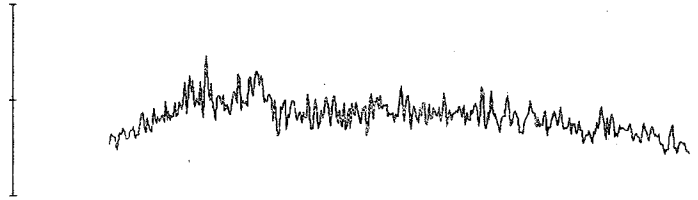
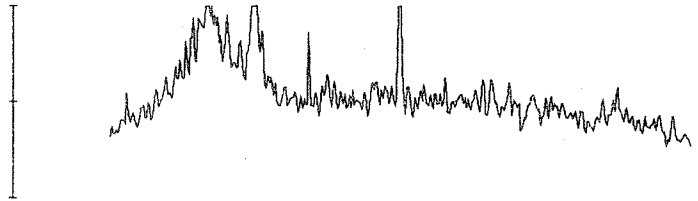
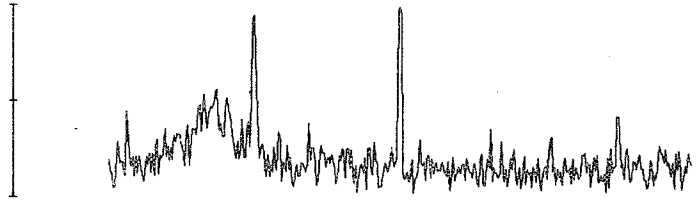
XRD-88/5



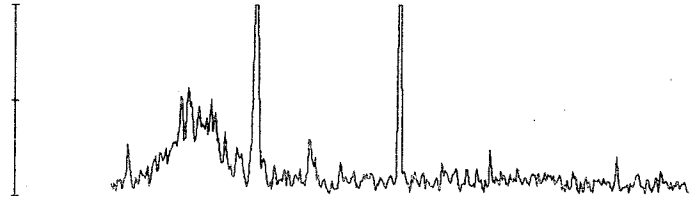
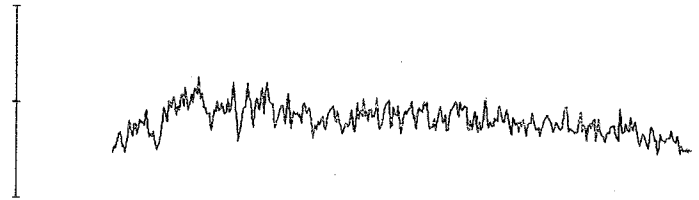
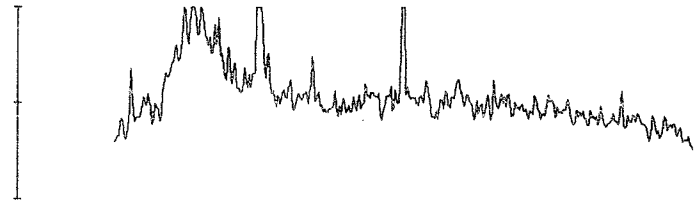
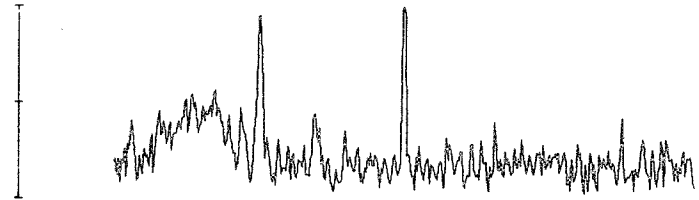
XRD-88/6



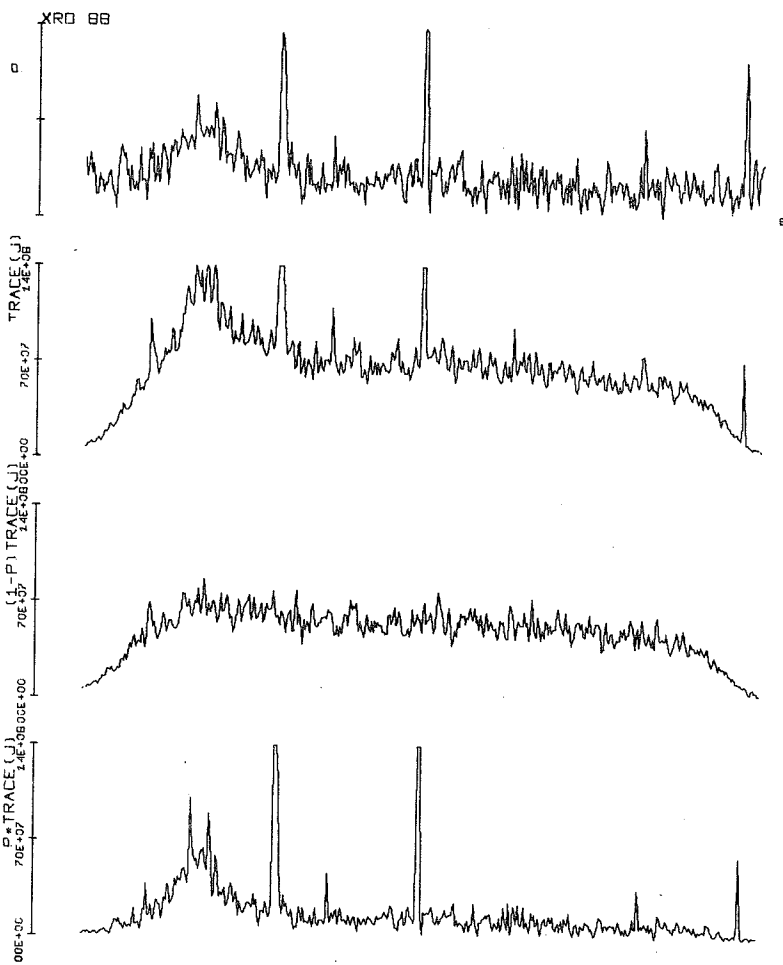
XRD-88/7



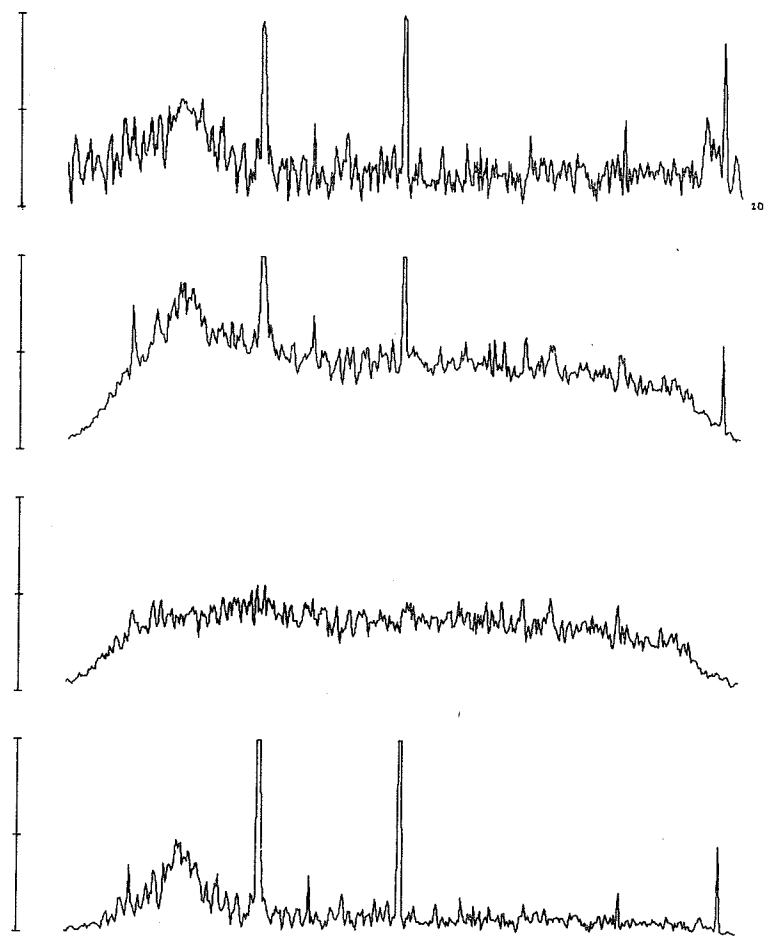
XRD-88/8



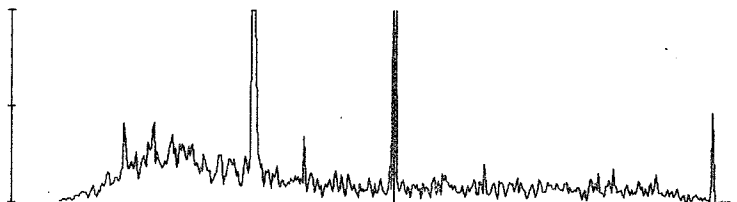
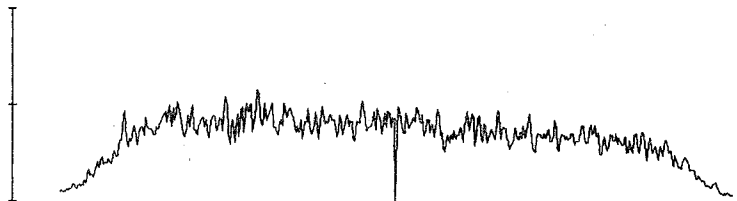
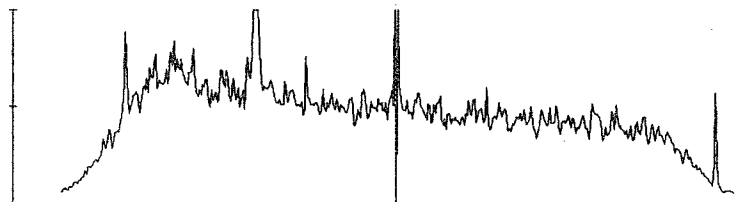
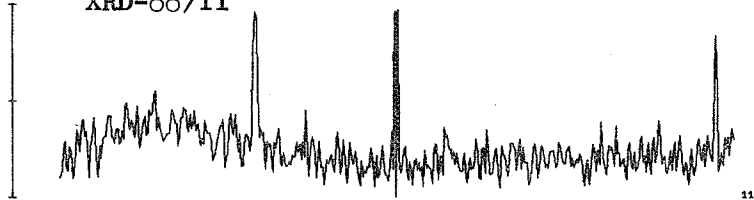
XRD-88/9



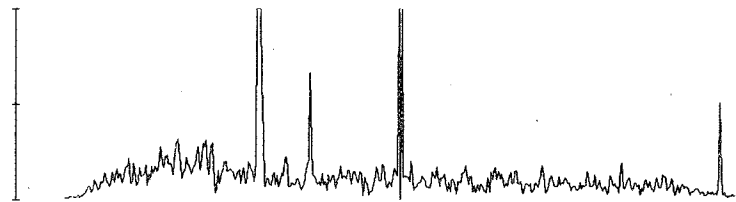
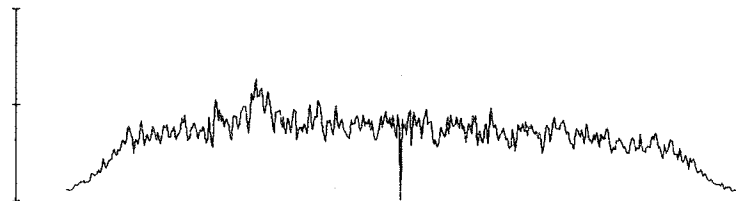
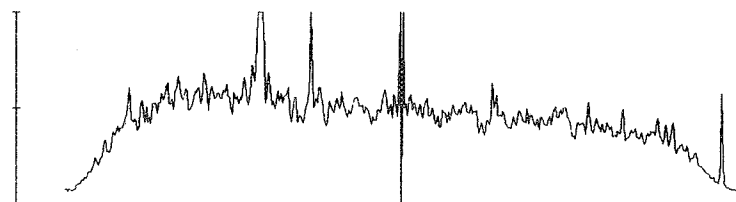
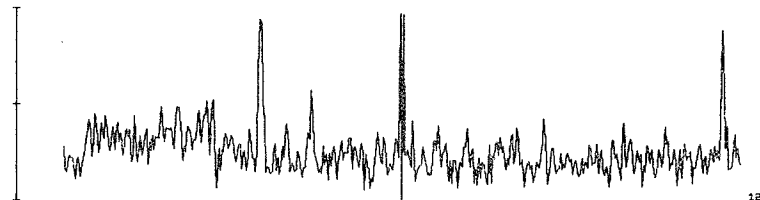
XRD-88/10



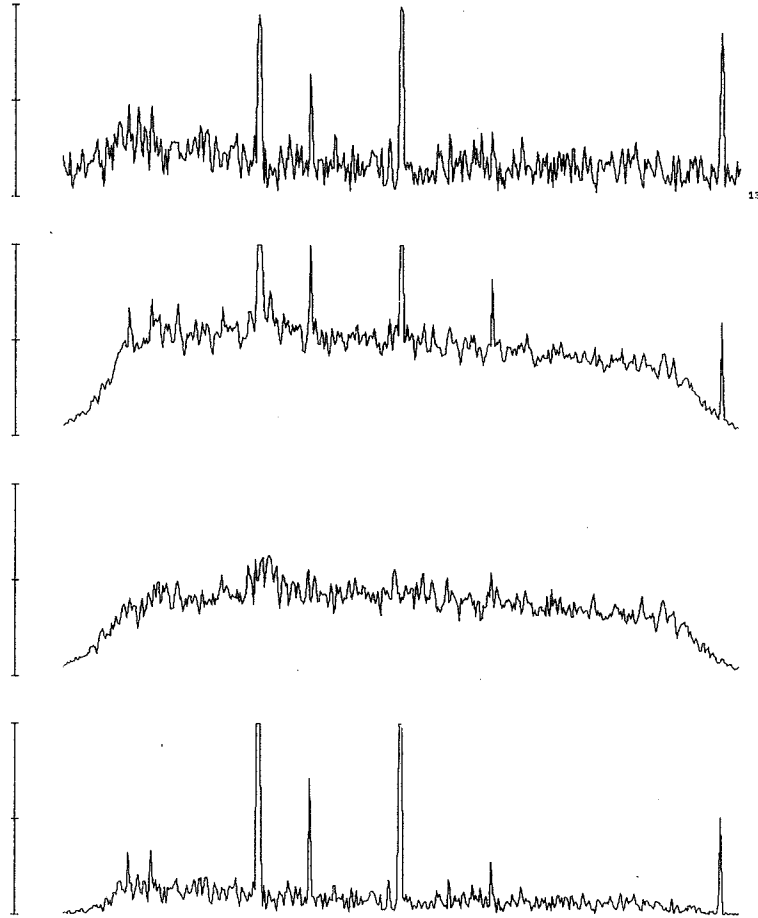
XRD-88/11



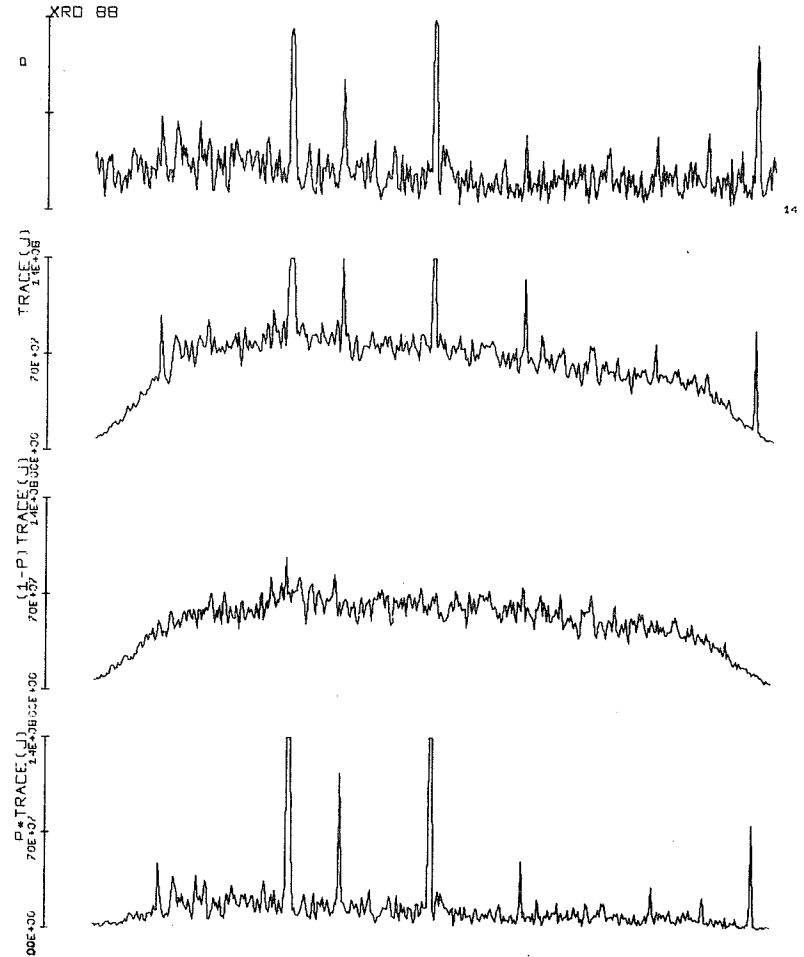
XRD-88/12



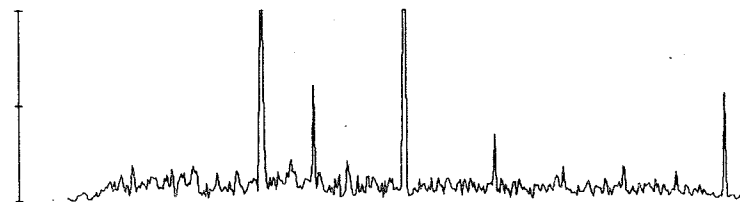
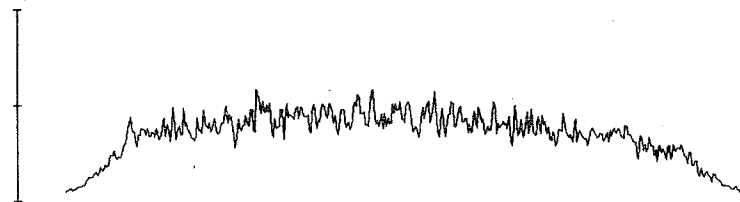
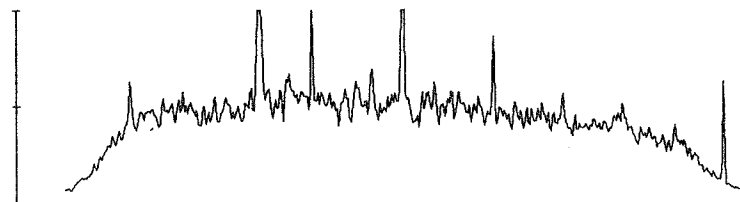
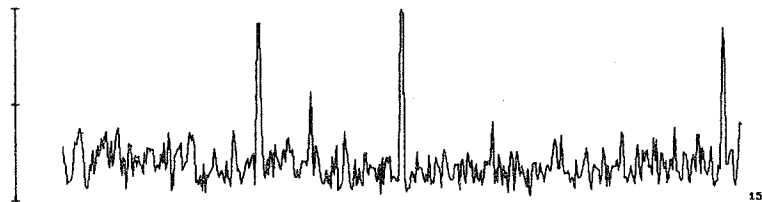
XRD-88/13



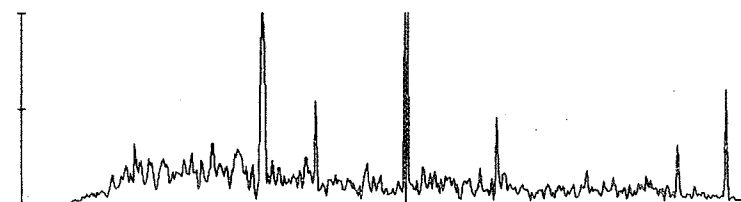
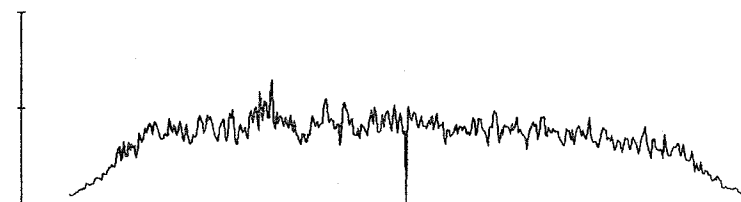
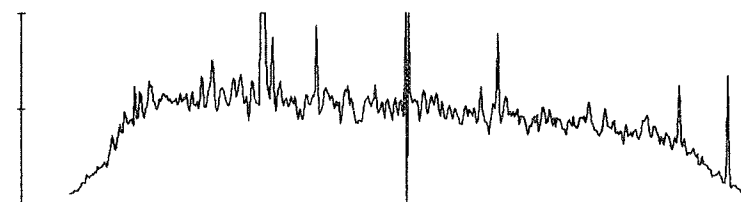
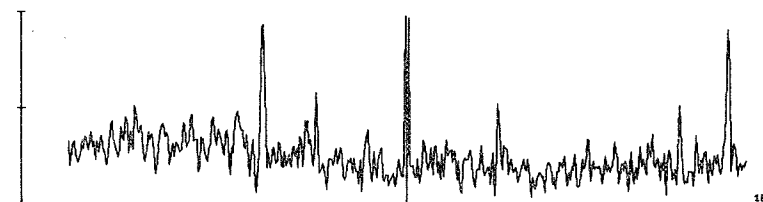
XRD-88/14



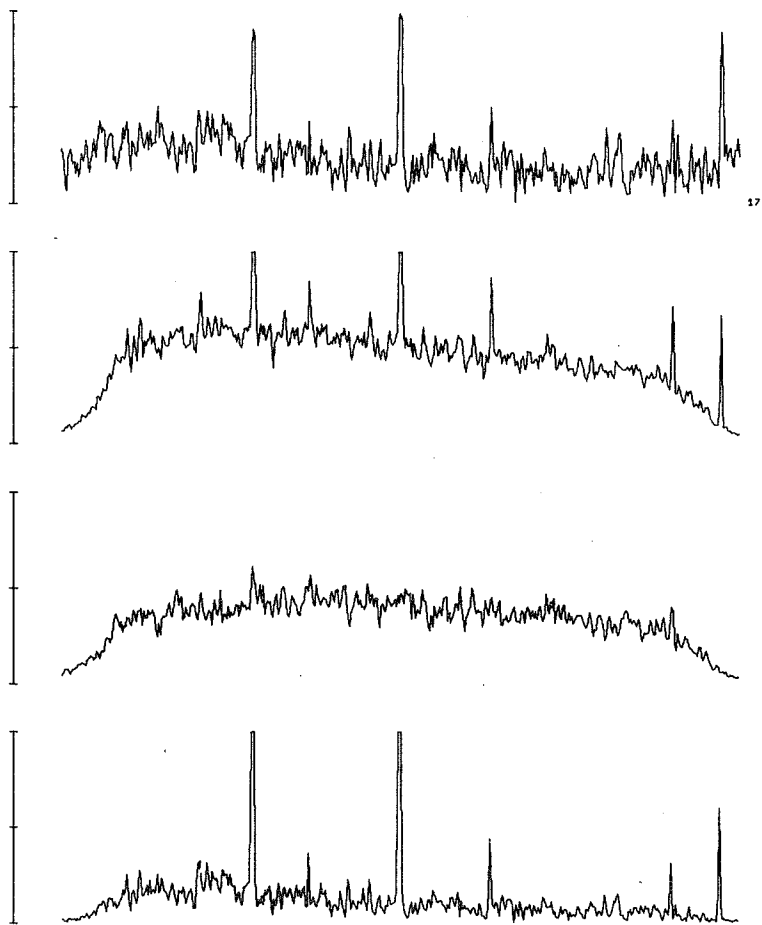
XRD-88/15



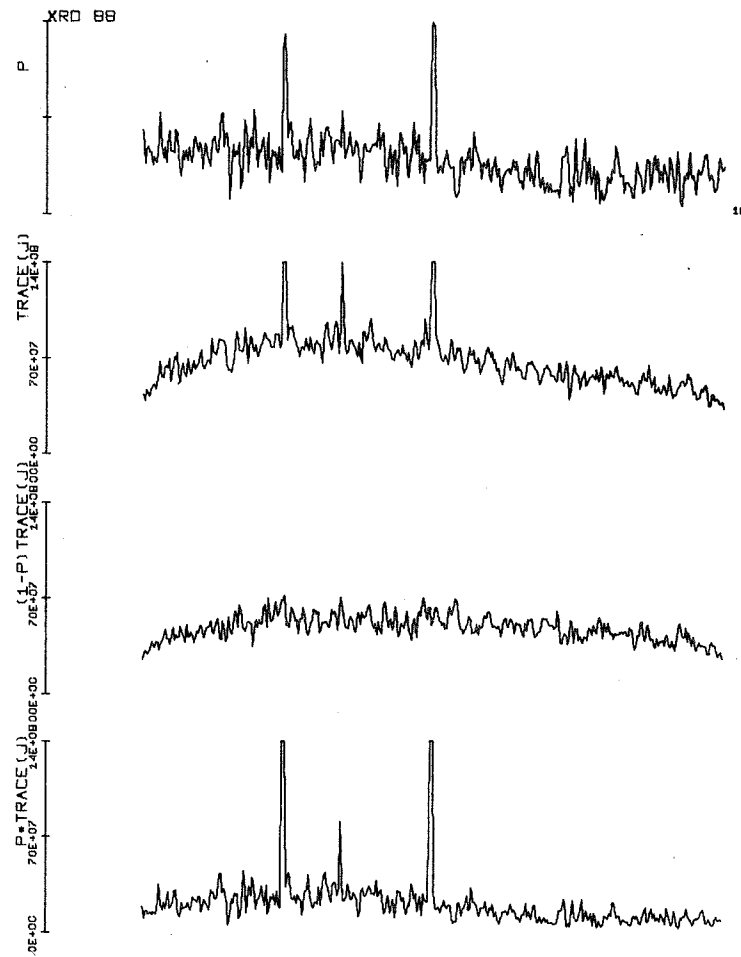
XRD-88/16



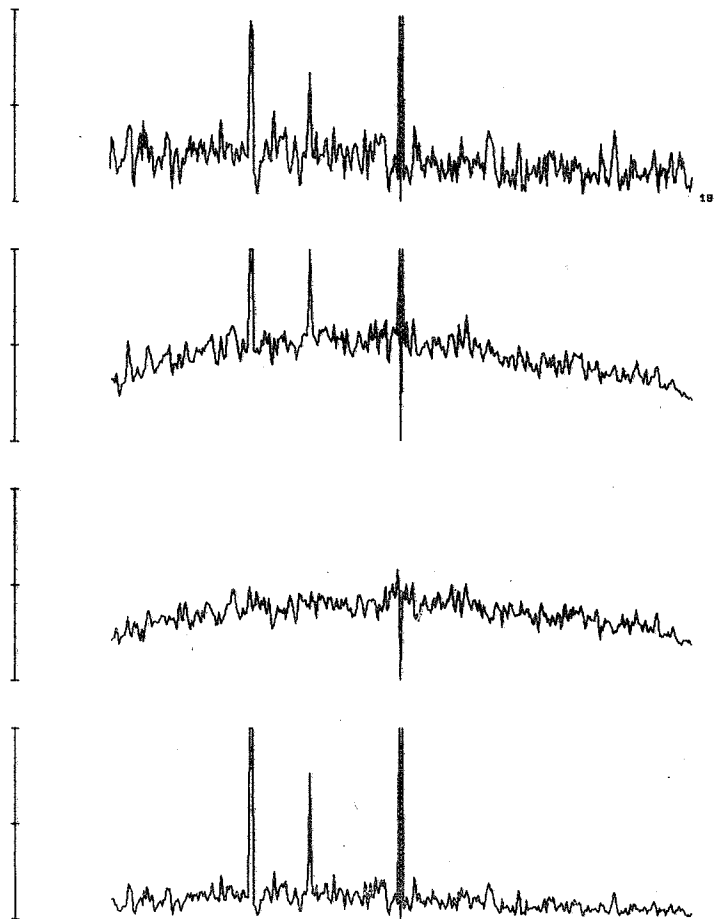
XRD-88/17



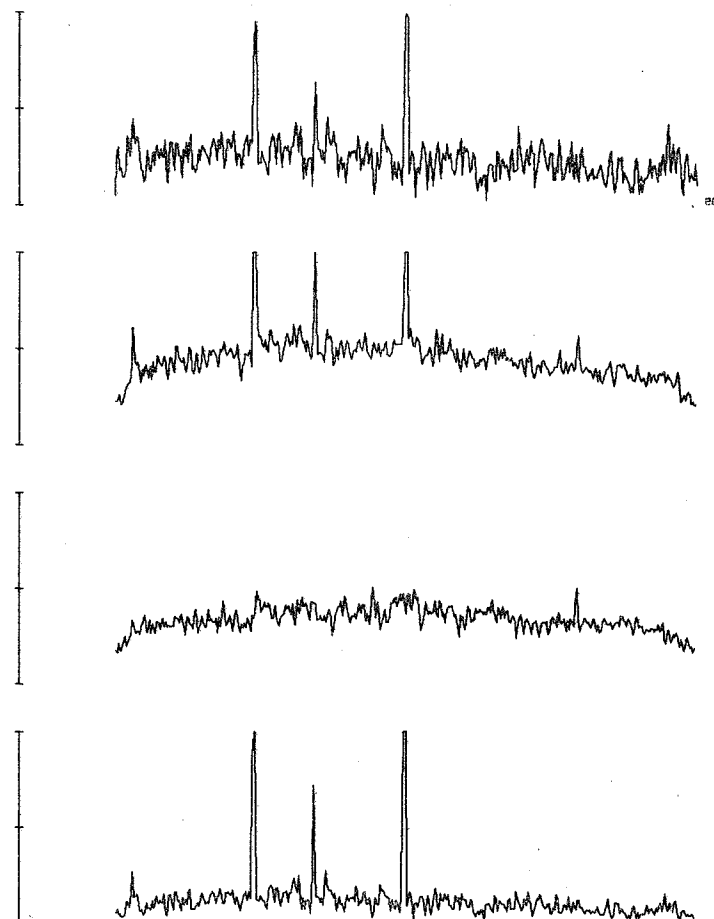
XRD-88/18



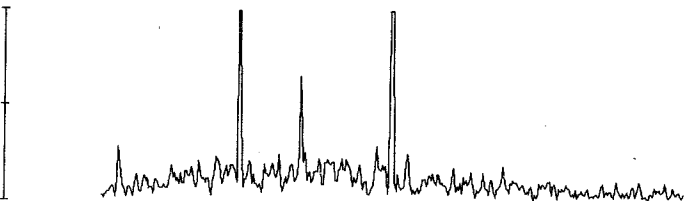
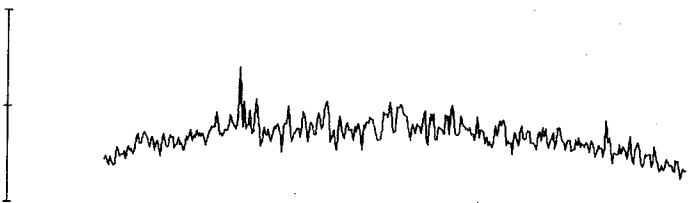
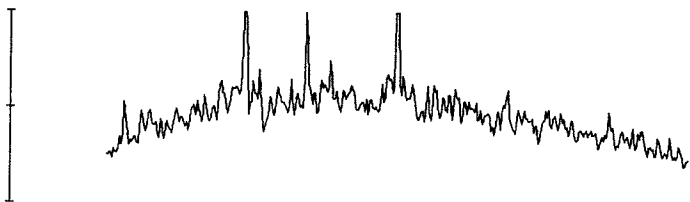
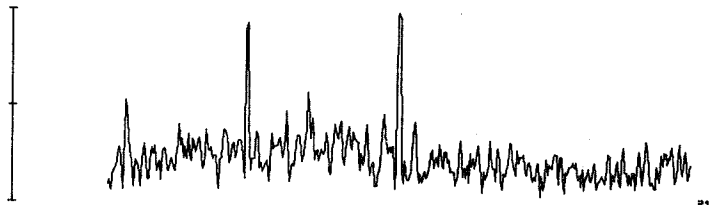
XRD-88/19



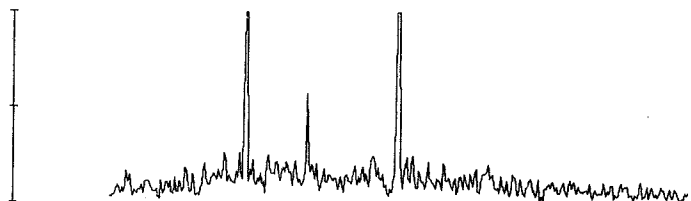
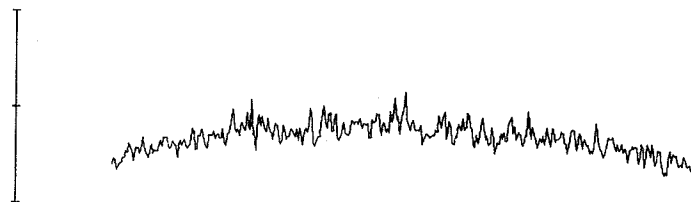
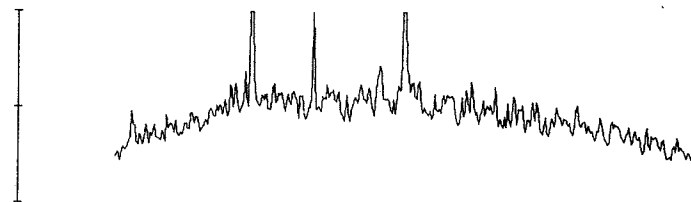
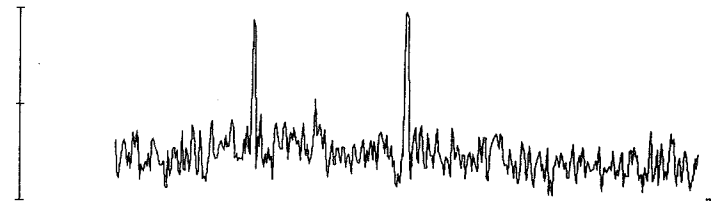
XRD-88/20



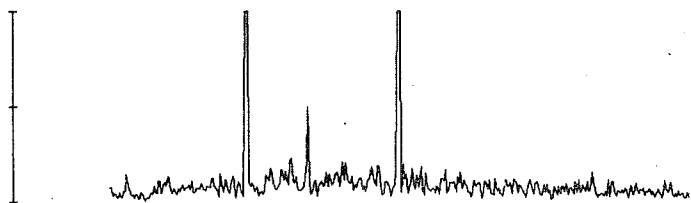
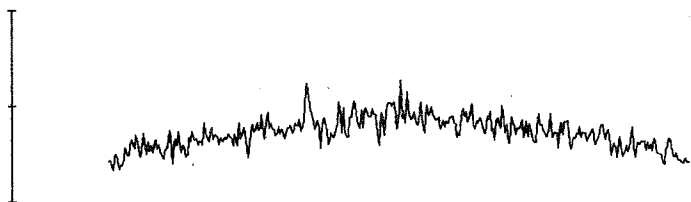
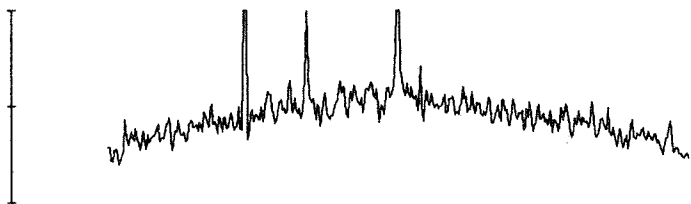
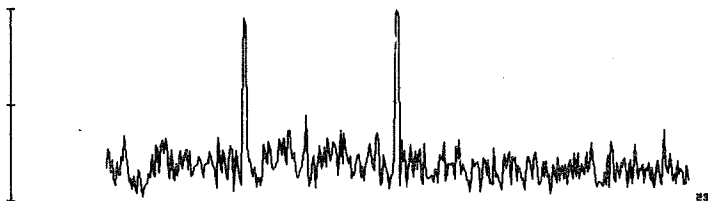
XRD-88/21



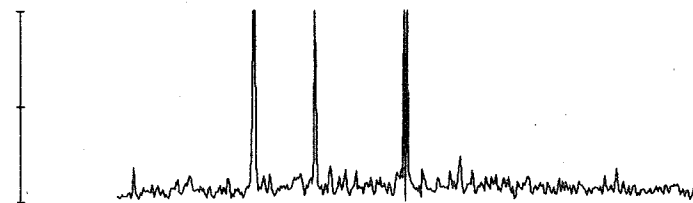
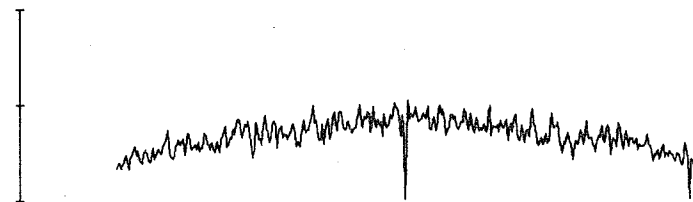
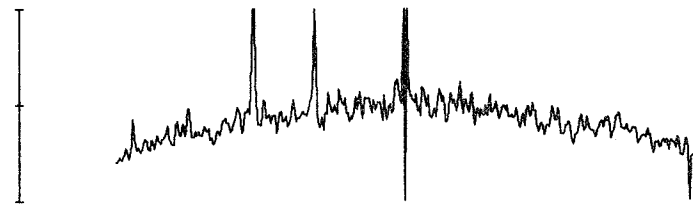
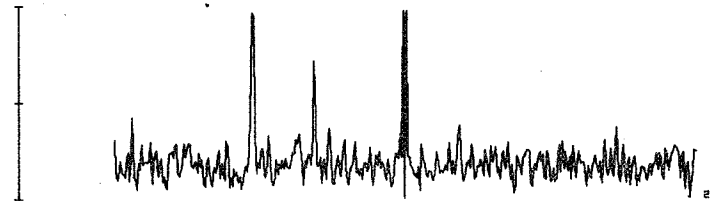
XRD-88/22



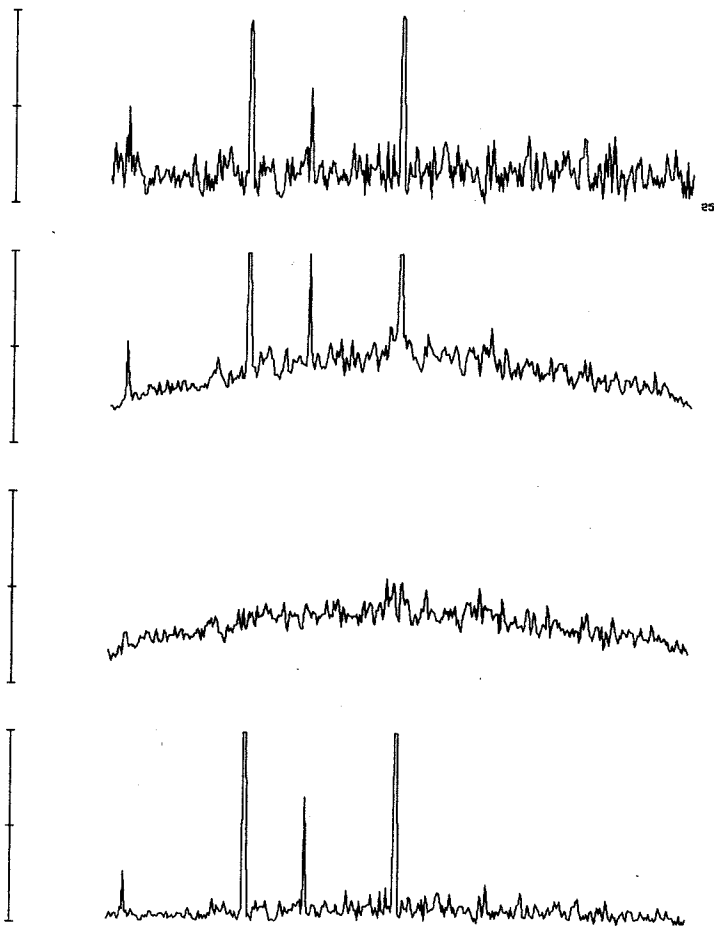
XRD-88/23



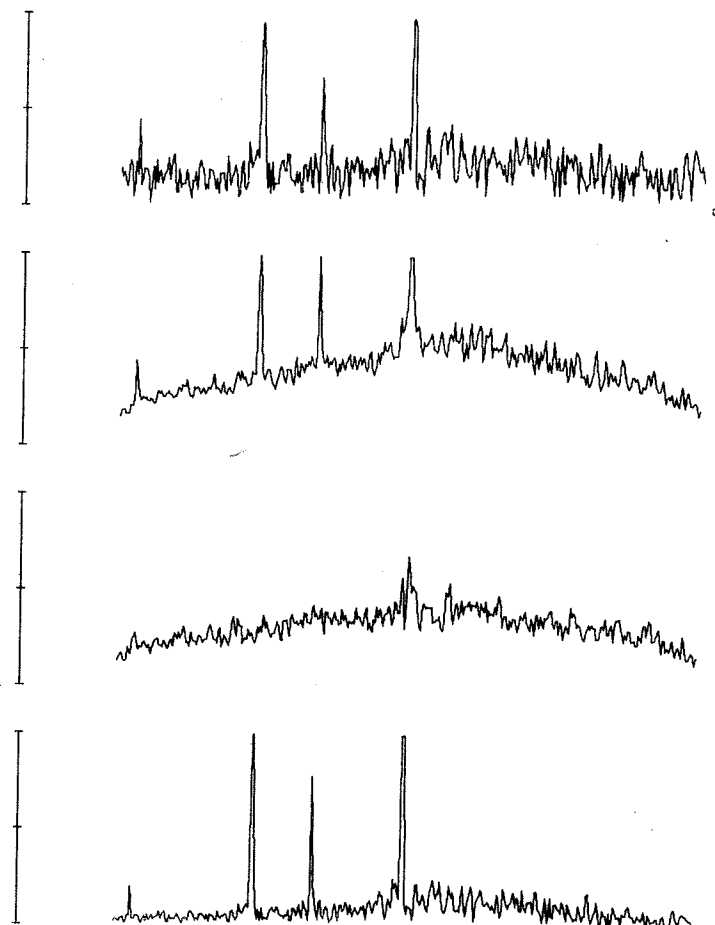
XRD-88/24



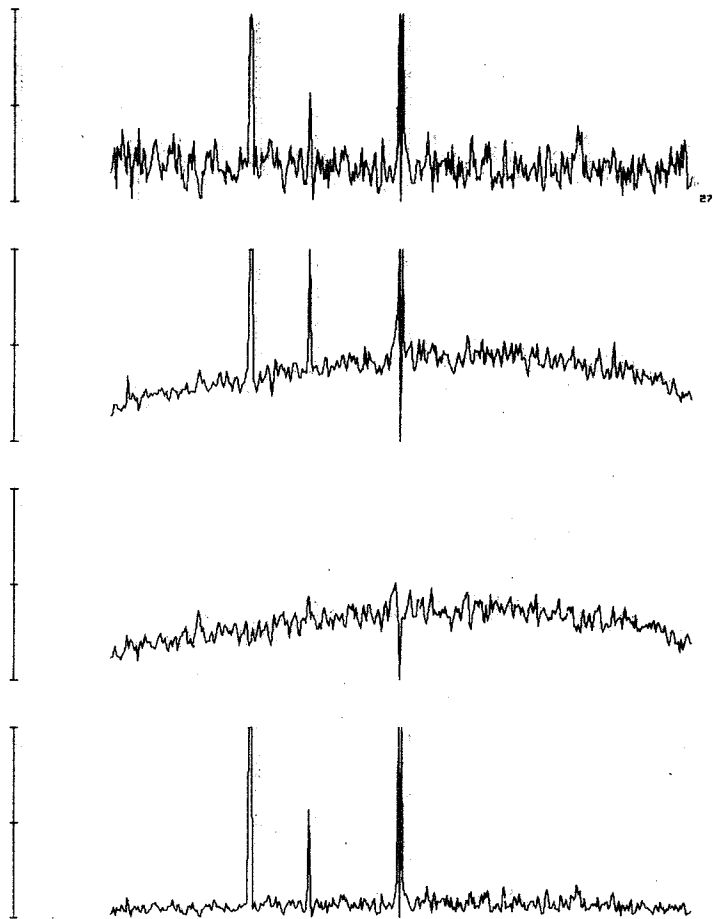
XRD-88/25



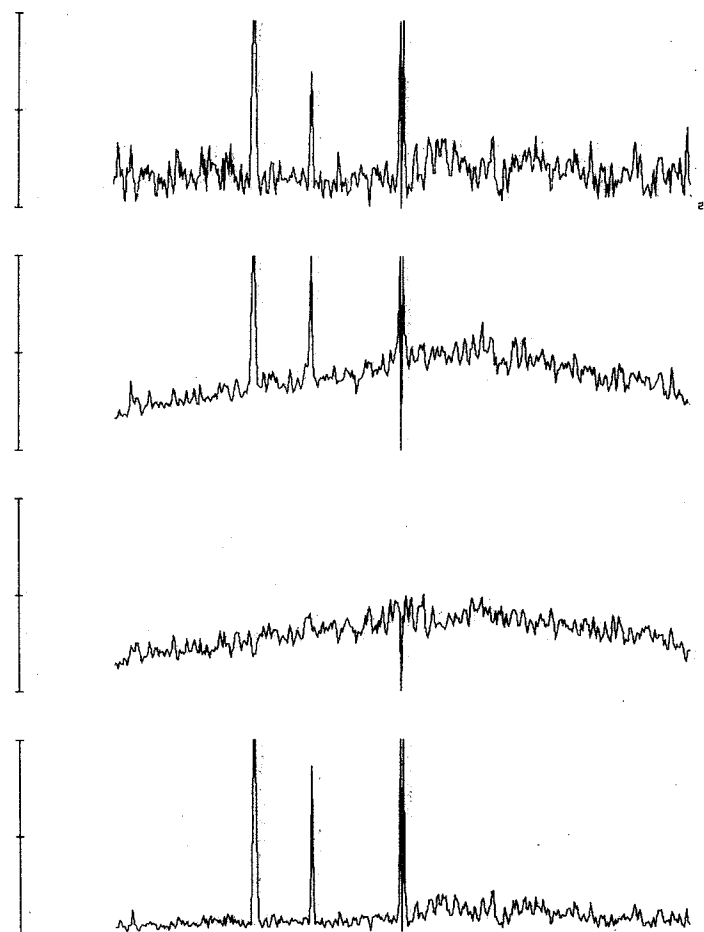
XRD-88/26



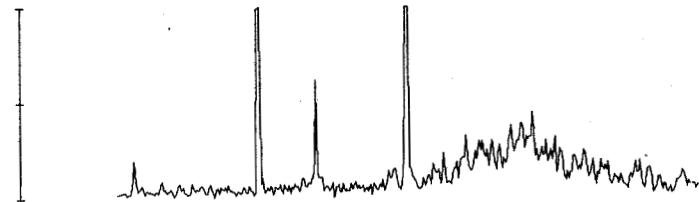
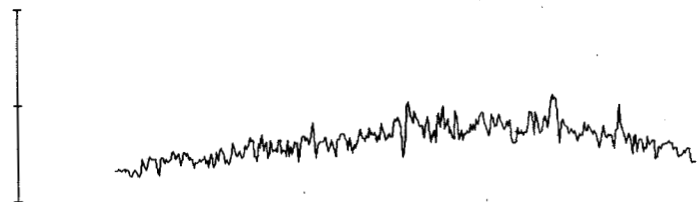
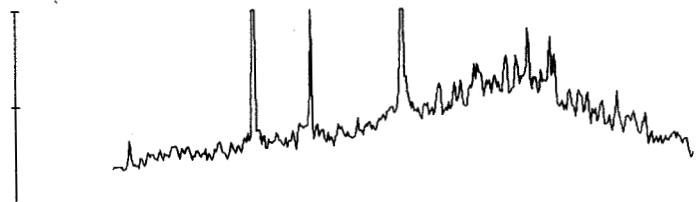
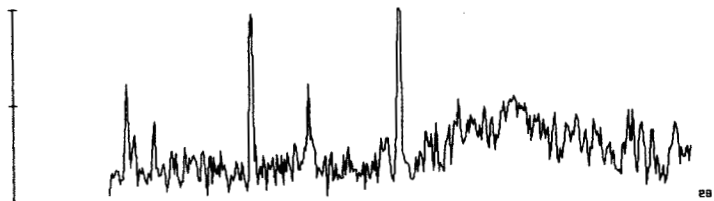
XRD-88/27



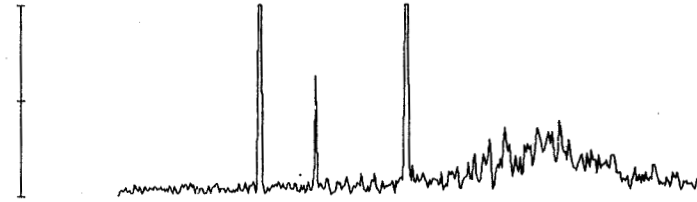
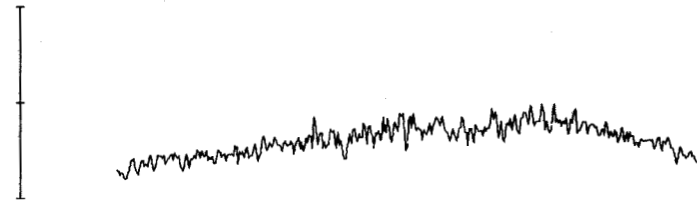
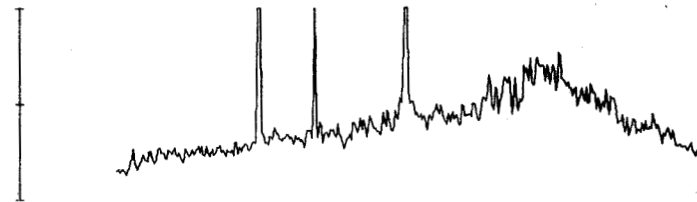
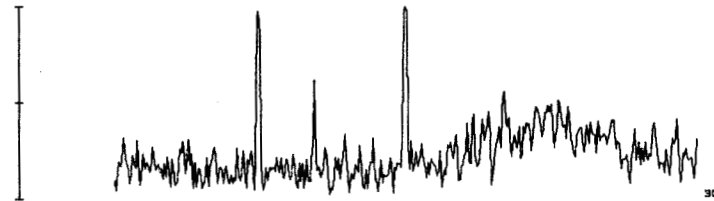
XRD-88/28



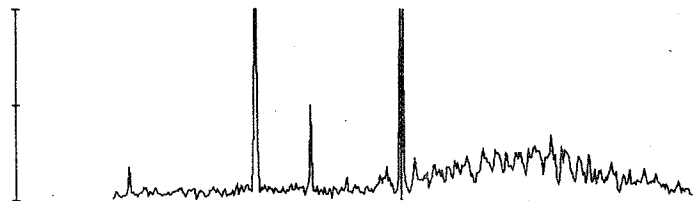
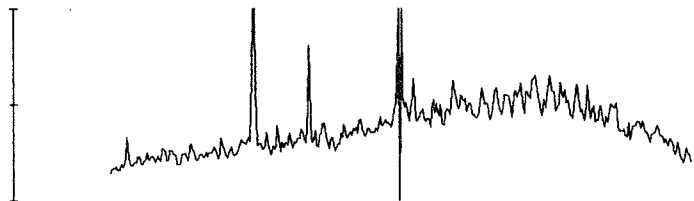
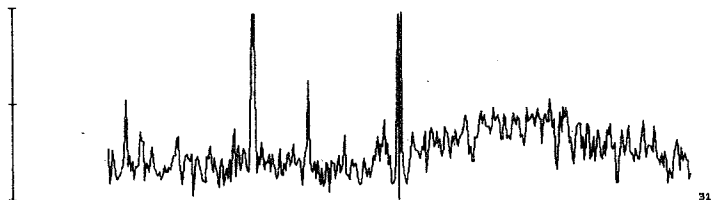
XRD-88/29



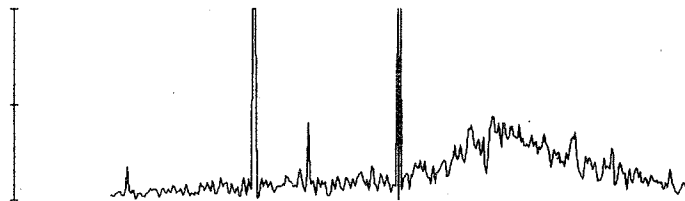
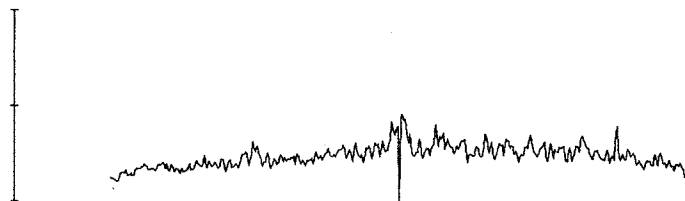
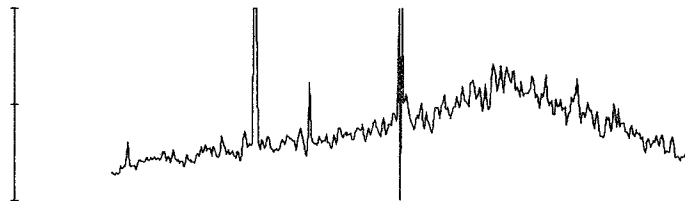
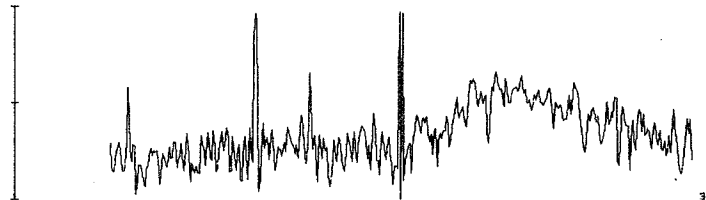
XRD-88/30



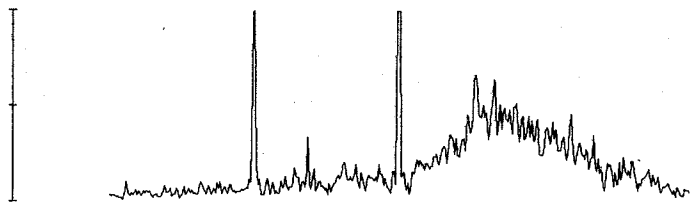
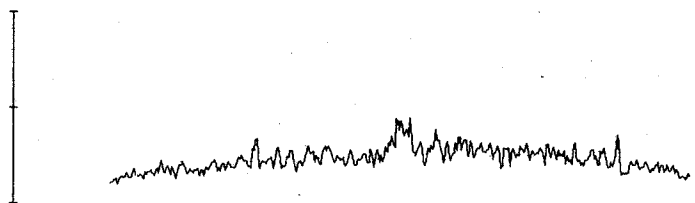
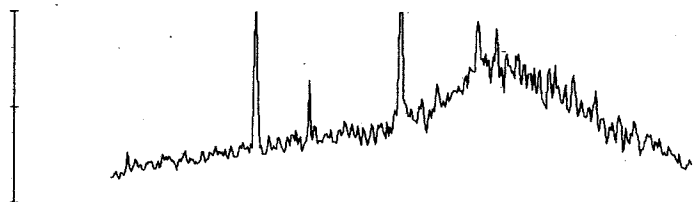
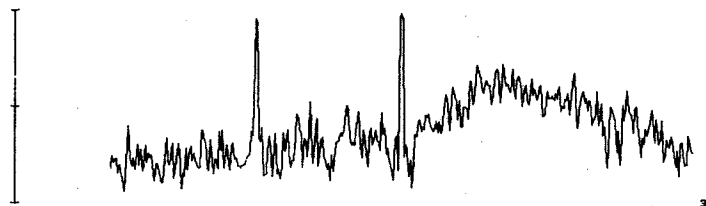
XRD-88/31



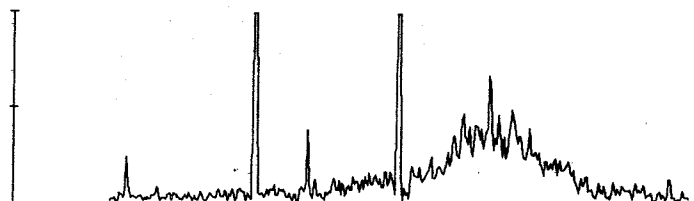
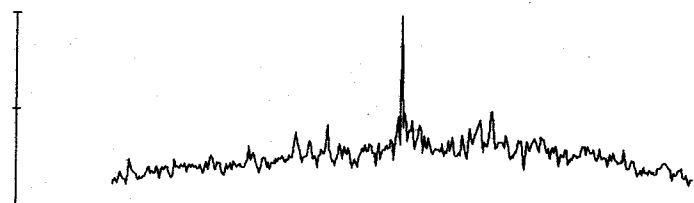
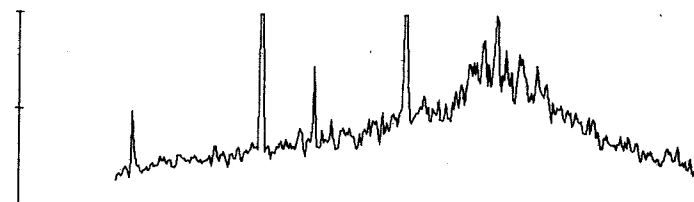
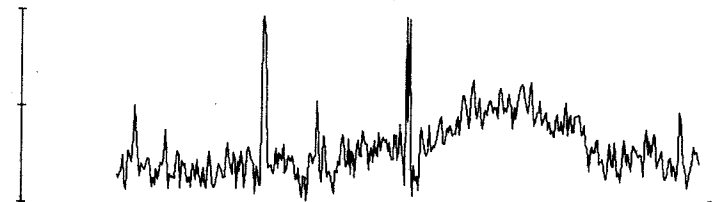
XRD-88/32



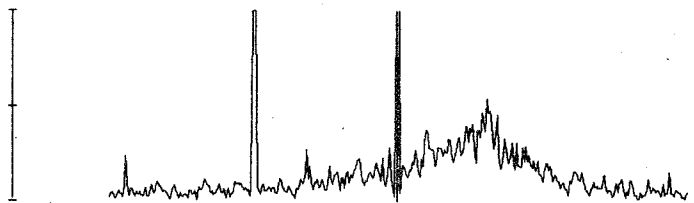
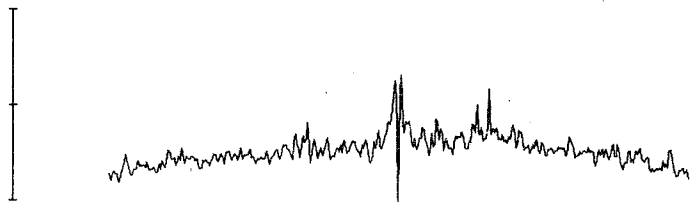
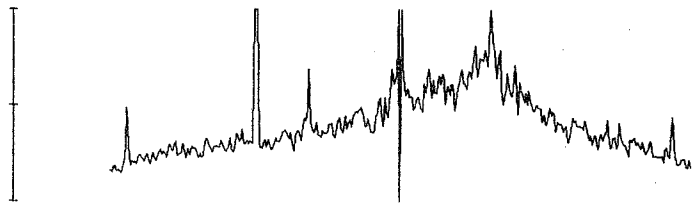
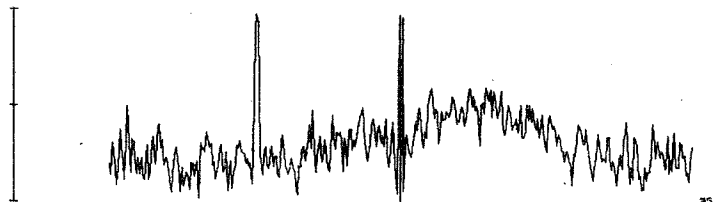
XRD-88/33



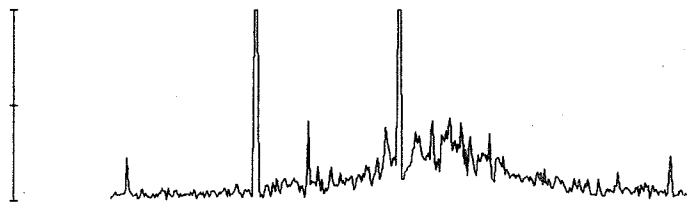
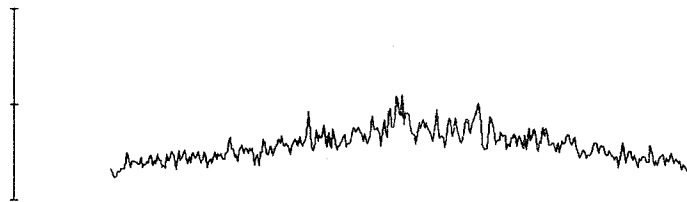
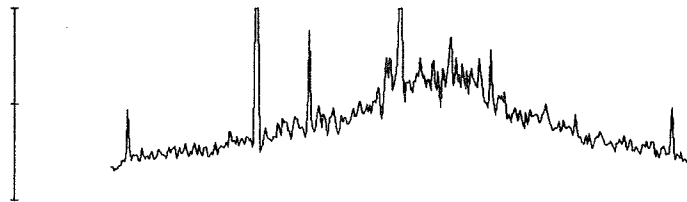
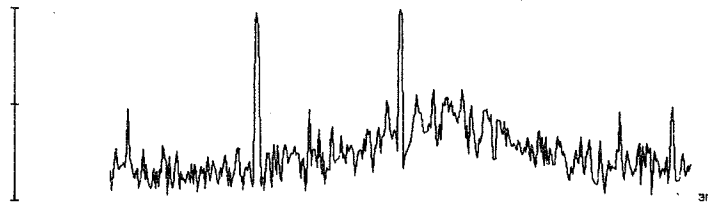
XRD-88/34



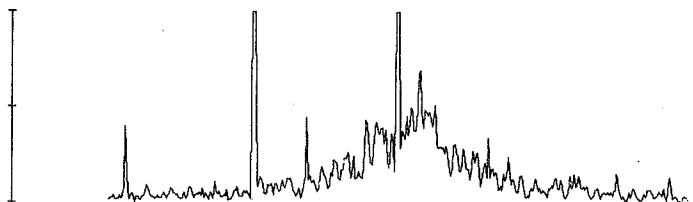
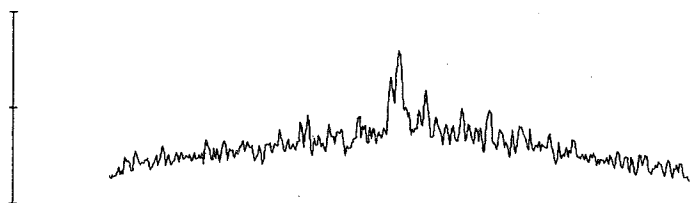
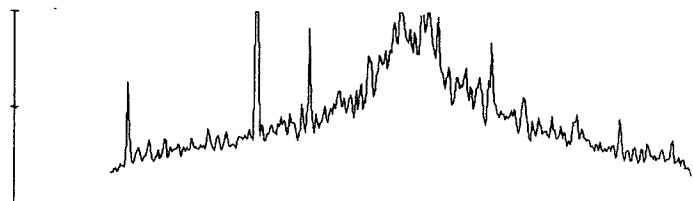
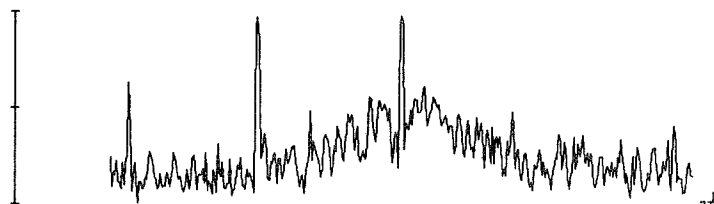
XRD-88/35



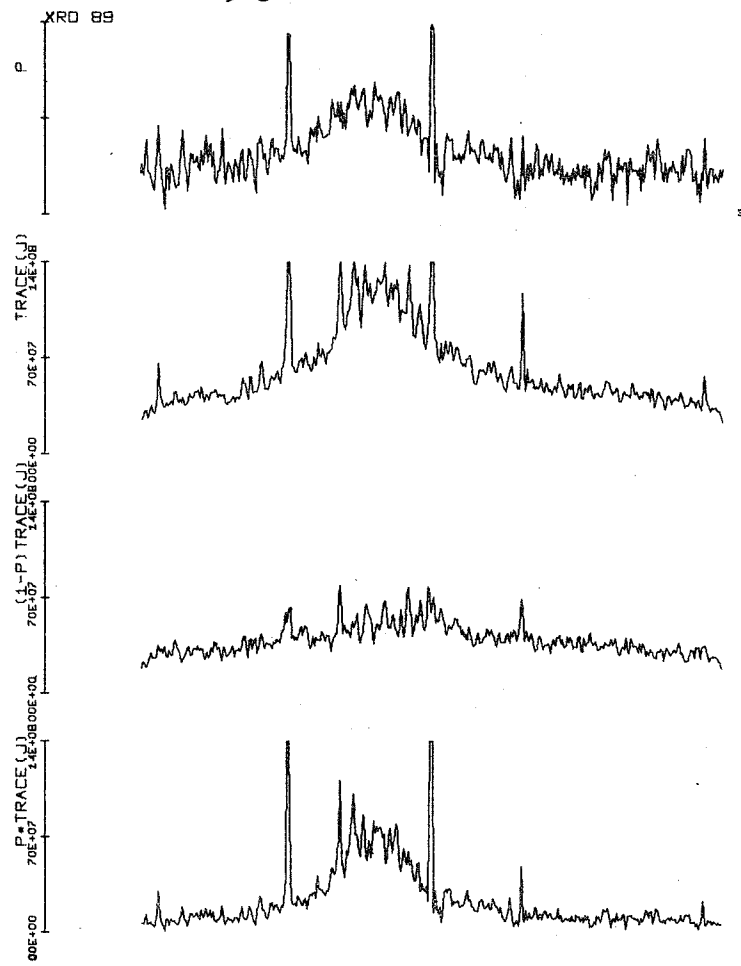
XRD-88/36



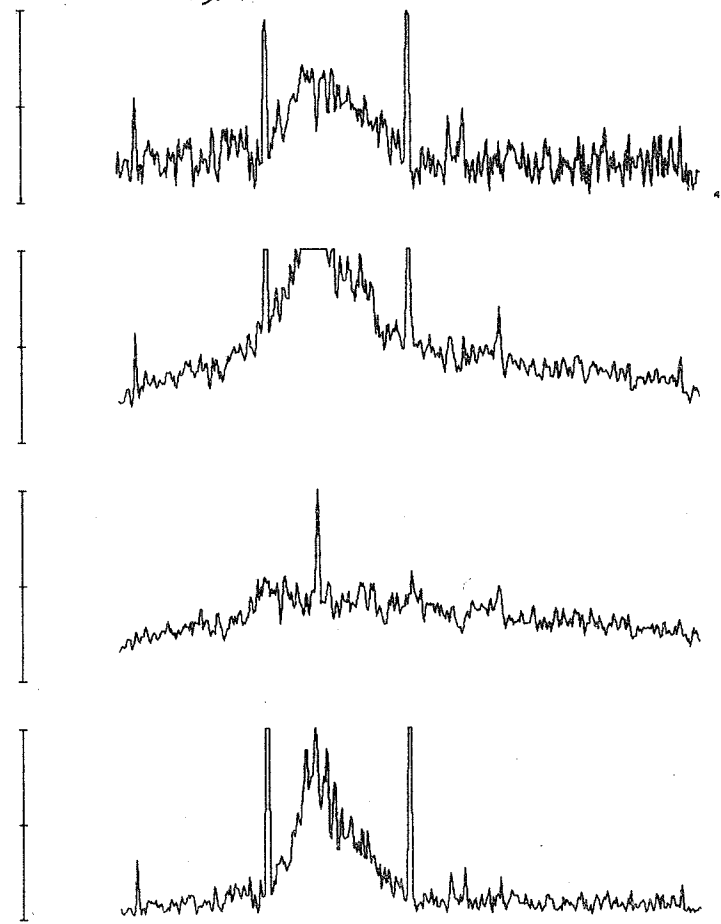
XRD-88/37



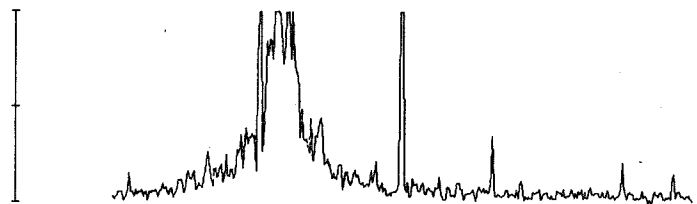
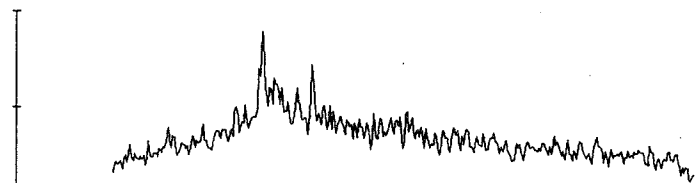
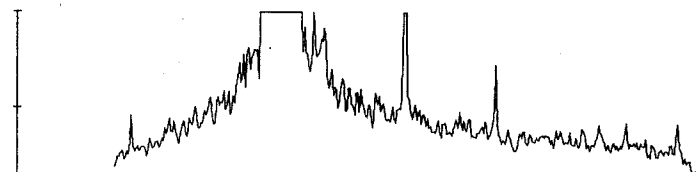
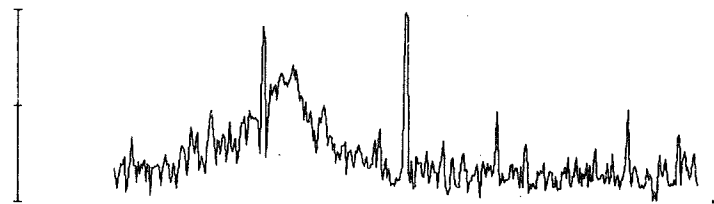
XRD-89/3



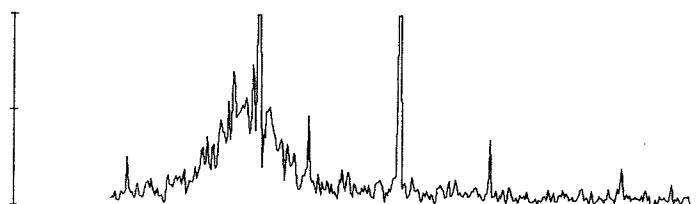
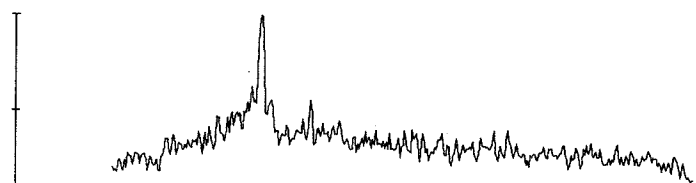
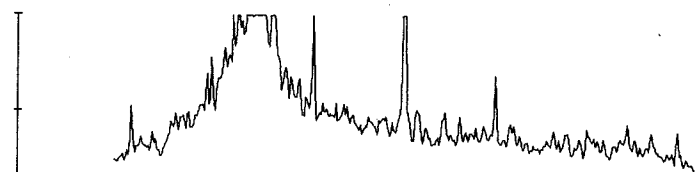
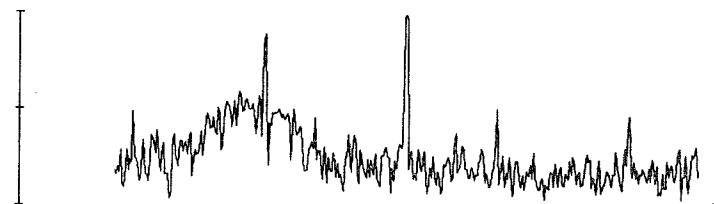
XRD-89/4



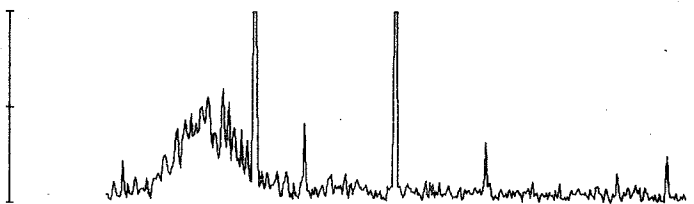
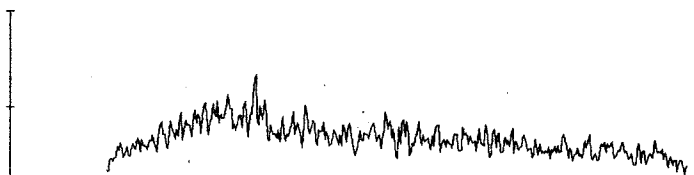
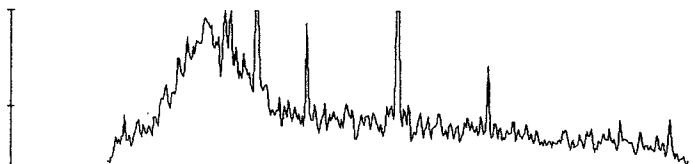
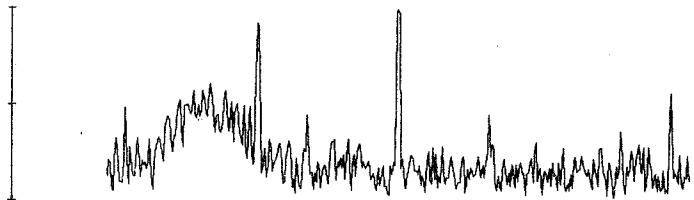
XRD-89/5



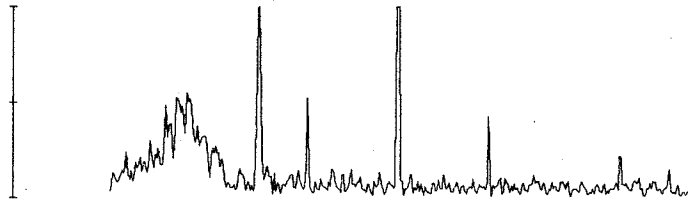
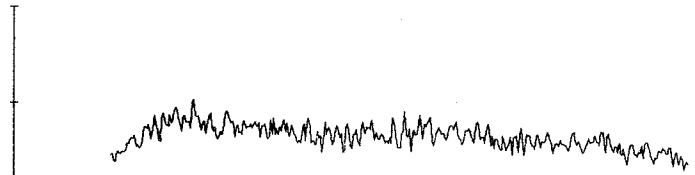
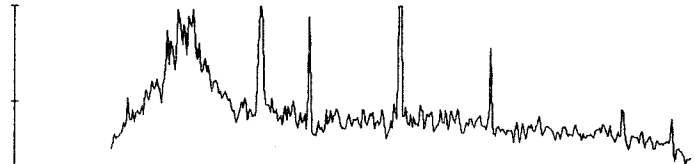
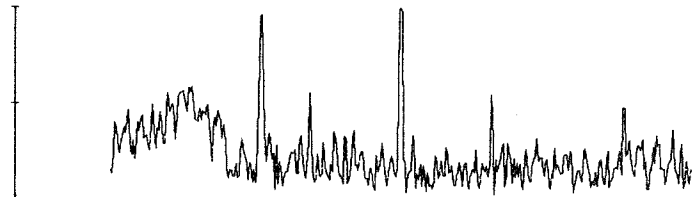
XRD-89/6



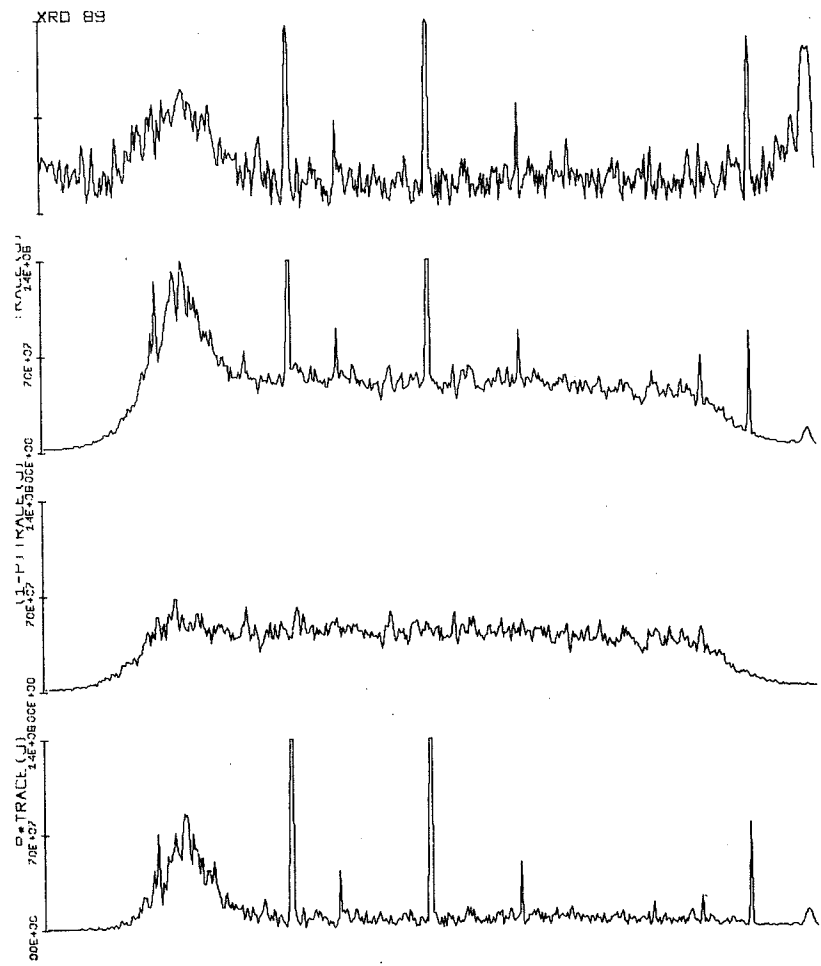
XRD-89/7



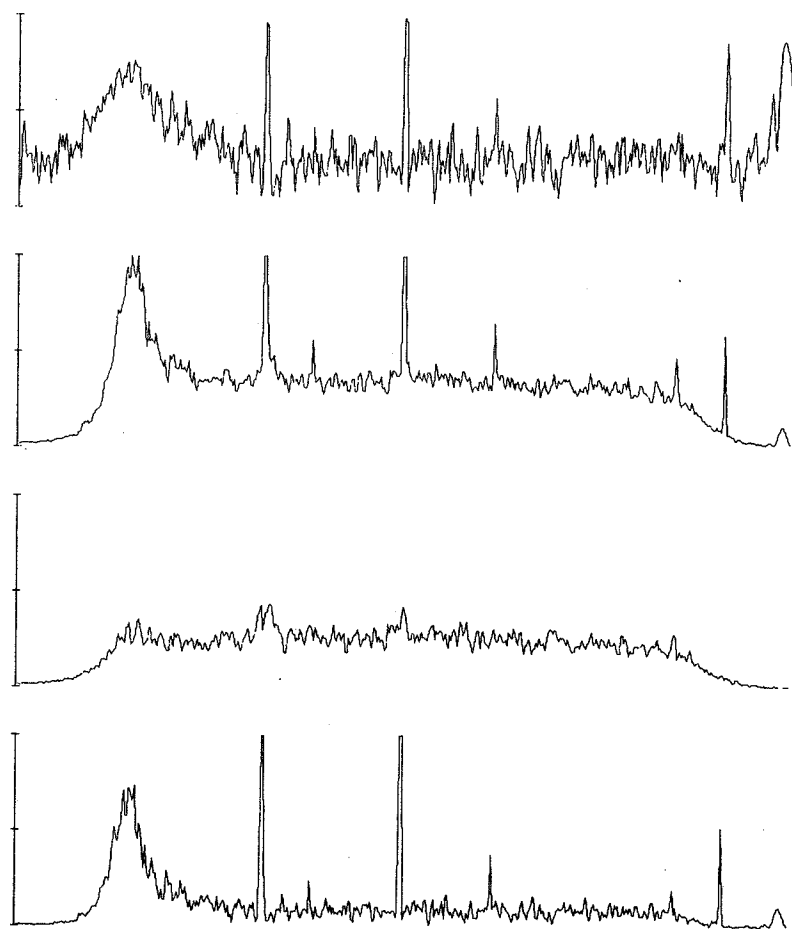
XRD-89/8



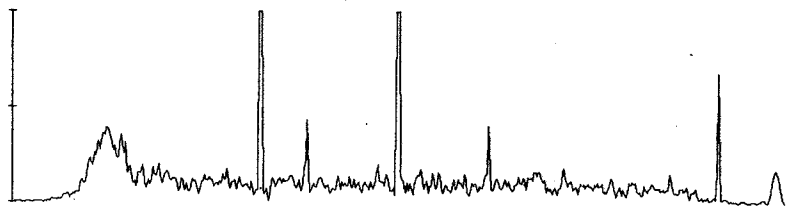
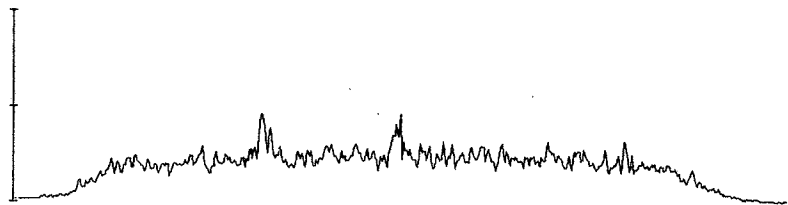
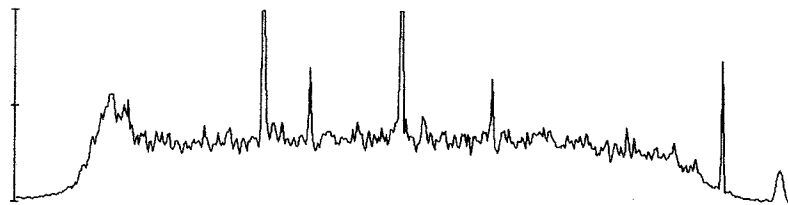
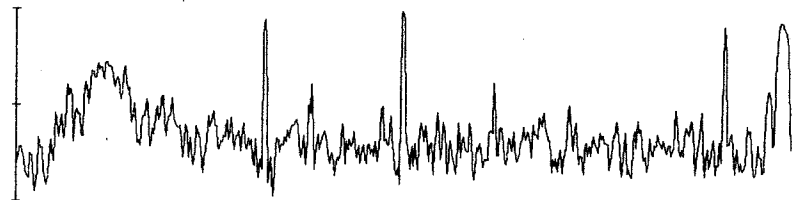
XRD-89/9



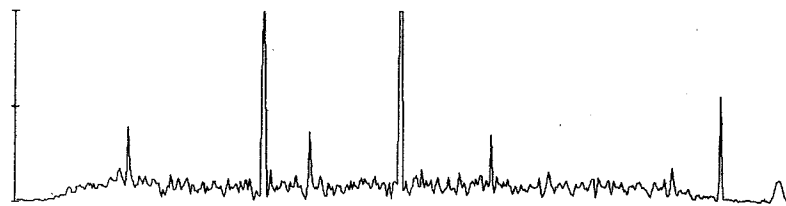
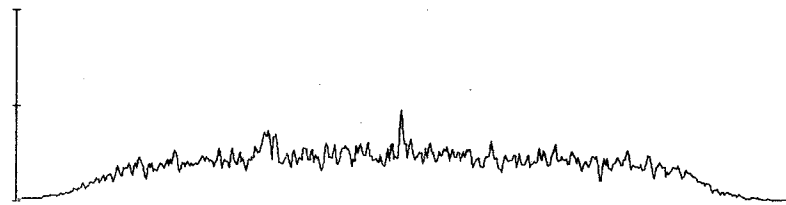
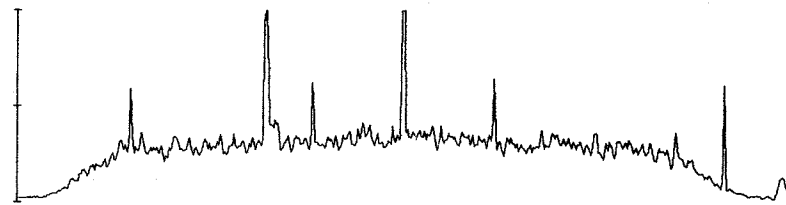
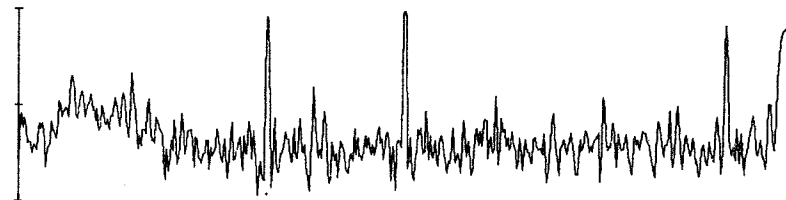
XRD-89/10



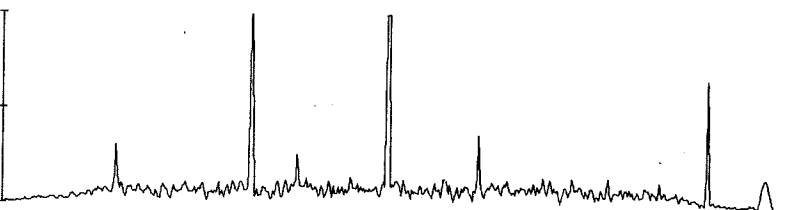
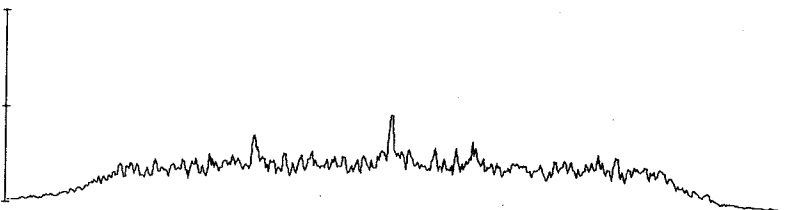
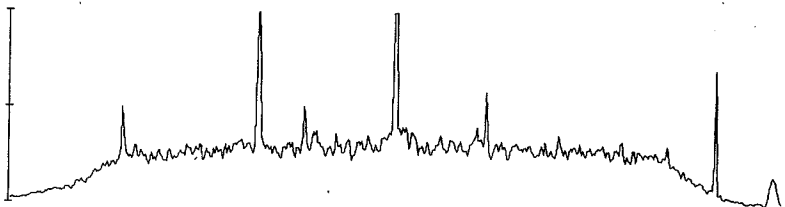
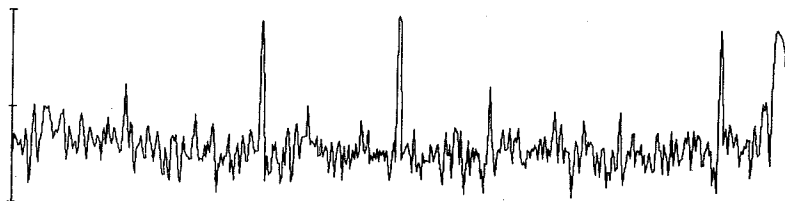
XRD-89/11



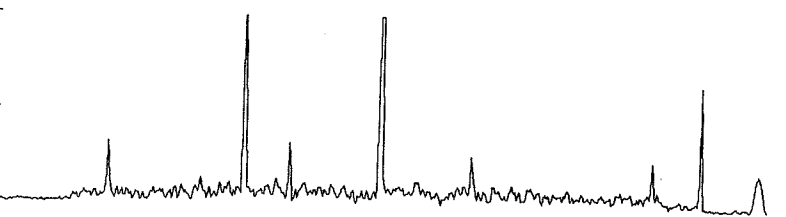
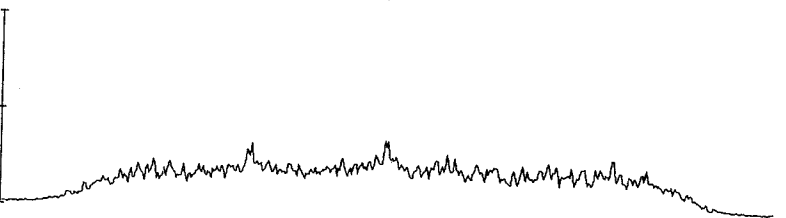
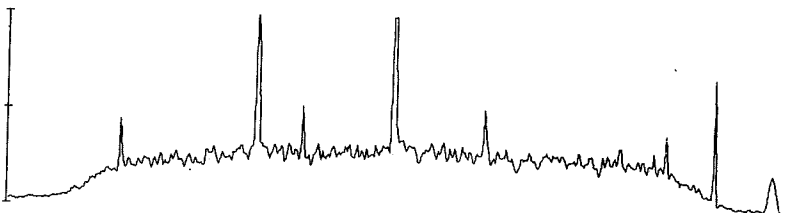
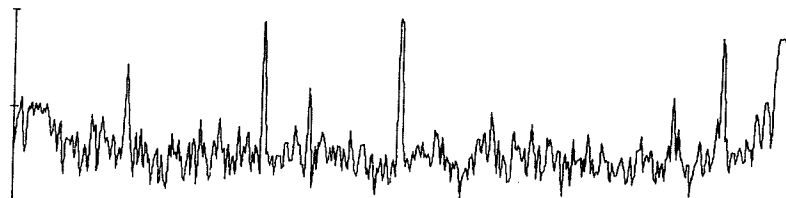
XRD-89/12



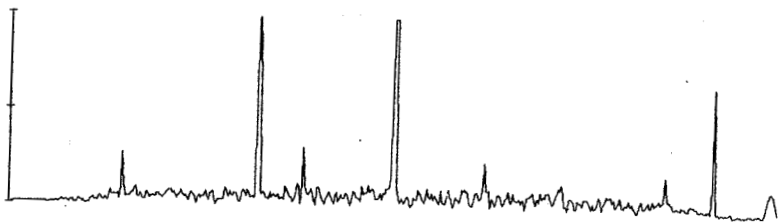
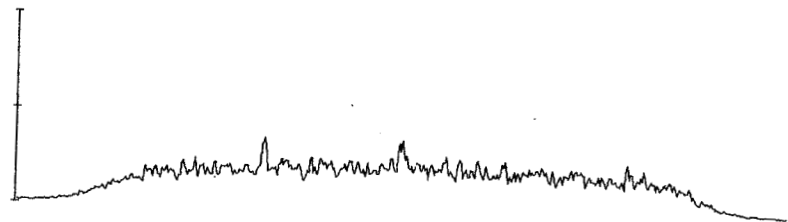
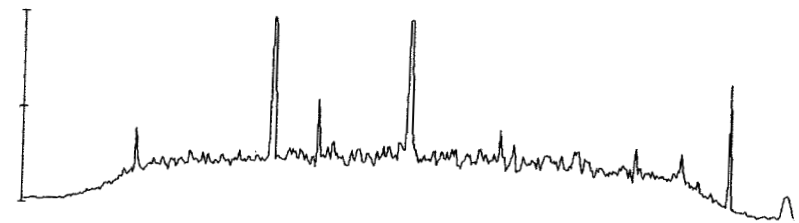
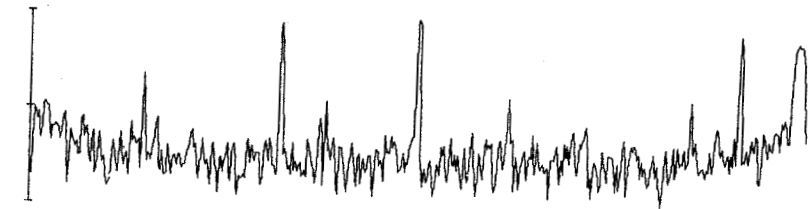
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