

PAGE #	DESCRIPTION	FCC ID #
49	Certification of Transceiver Model MP1100	KA324WAN4

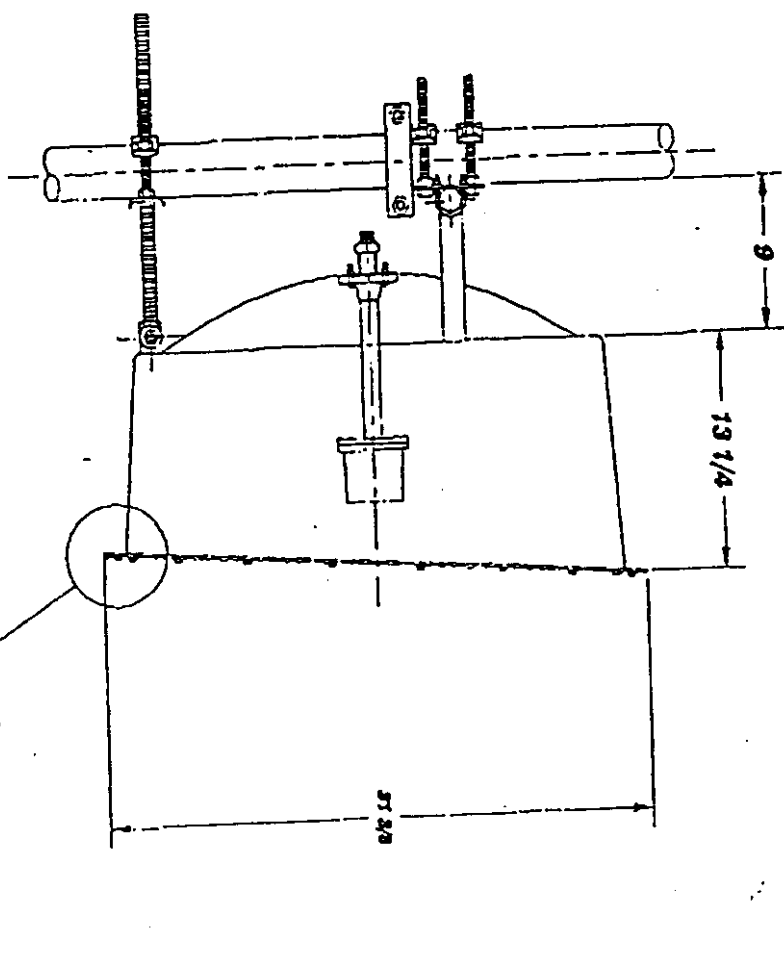
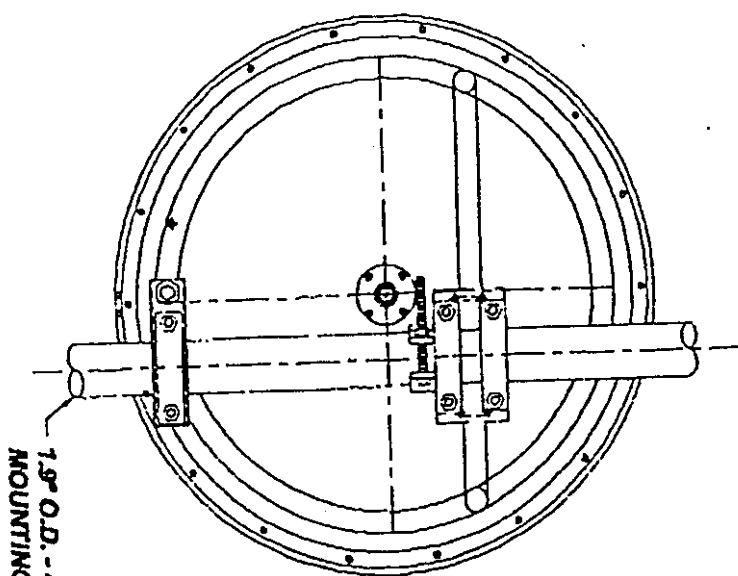
HP-24A24**ELECTRICAL**

Frequency (GHz)	2400-2500 MHz
Net Gain (Coxial lead and connector)	21.2 at 2400 MHz
Half Power Beam Width (deg)	11.6
Front/Back (dB)	36
Cross Pol. Discrimination (dB)	30
VSWR	1.5
Polarization	Linear
Connector	N female
3K Ohm (Integral)	Sensing Resistor (15.203)

MECHANICAL

Effective Diameter (inches)	24
Focal Length (inches)	9
f/d	0.375
Shape Requirements	typ. RMS .040
Limit of Antenna Movement (deg)	0.5
Max. Wind Speed (mph)	70 operating, 125 survival
Projected Front Area (ft^2)	5.2
Max. Wind Load - Front (lb)	270
Max. Wind Load - Side (lb)	135
Ice Load Thickness	0.5
Shape Changes After Loading	minimum
Elevation Angles (deg)	±40
Offset of Reflector (inches)	4
Feed Mounting	front mount
Mounting Pipe Sizes (inches)	1.9 - 4.5
Weight of Antennas (lb)	33
Weight of Reflector (lb)	18
Weight of Mount & Hardware (lb)	10
Weight of Feed (lb)	5
Temperature Range (deg C°)	-30 to +30

COMSAT RSI
Wireless Antennas



HP-24A24N
OUTLINE DRAWING

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RADIATED EMISSIONS DATA SHEET

Date: 2 APR 98

Test Personnel: *Shank*Co./EUT: *Solecetek MP1100*

Power: 115 VAC 60Hz

Temp: °C:

R.H.:

Barometric Press:

Test Description: 15C 15,247 Transmitt @ 3m ANT - DIR-21

Frequency MHz	V Pol Peak	H Pol Peak	V Pol Ave Peak	H Pol Ave Peak	Amp dB	Ant. Fac. dB	V Pol Peak Level	H Pol Peak Level	V Pol Q Pk Level	H Pol Q Pk Level	Spec. Level dBμV/m	Delta Spec. Level	Comments
1012.015	-	-	-	-							54.0		c4.3
1040.065	-	-	-	-									
1120.145	-	-	-	-									
1152.455	-	-	-	-									
1304	-	-	-	-									
2458	93.5	81.4	74.3	62.5									c6.3
4356.2	18.0	19.0		10.8									
4460.005	-	-	-	-									
6534.005	12.2	13.1		2.6									
8712.03	9.9	12.9		4.3									
17.56 64	-	-	-	-									
4916	-	-	-	-									
7374	-	-	-	-									
9832	-	-	-	-									
12240	-	-	-	-									
14748	-	-	-	-									
17206	-	-	-	-									
2390													
2483.5													

fccm

RADIATED EMISSIONS DATA SHEET

Date: 2 APR 98

Test Personnel: *Shuck*Co./EUT: *Solentek*

Power: 115 VAC 60 Hz

Temp °C:

R.H.:

Barometric Press :

Test Description: 15C

15.247

AUT-DIR-22

of Transmitt @ 3m

Frequency MHz	V Pol Peak	H Pol Peak	V Pol Quasi Peak	H Pol Quasi Peak	Amp dB	Ant Fac dB	V Pol Peak Level	H Pol Peak Level	V Pol QTR Level	H Pol QTR Level	Spec. Level dBuV/m	Delta Spec Level	Comments
1068.14	-												ch 2
1120.08													✓
1192.3													✓
1344.49	-												✓
1878.6	25.9	14.0	13.9			32.1			45.5		49.5	-4.1	ch 2
2438	96.4	77.3	76.7										ch 3
4280.03													ch 1
4480.015	16.9	14.5	4.4										ch 1
8712.035	9.1		-1.4										ch 3
4516.0	-												
7374	-												
9832	-												
12290	-												
14748	-												
17206	-												

frecm

Co./EUT: 50lectek MP 1100

Barometric Press :

Receive @ 10m

[illegible]

RADIATED EMISSIONS DATA SHEET

Date: 2 APR 98

Test Personnel:

Co./EUR: Select 17P1100

Power: 115 VAC 60 Hz

Temp. °C:

R.H.:

Barometric Press :

Test Description: 15. C

15.247

30° ONNI Receive @ 10m

[illegible]

Reverend

Barometric Press.:

NO 8 A 75

[illegible]

15.247.6.2

30° 04'N 64.3

3-26-98

MKR 2.44 GHz

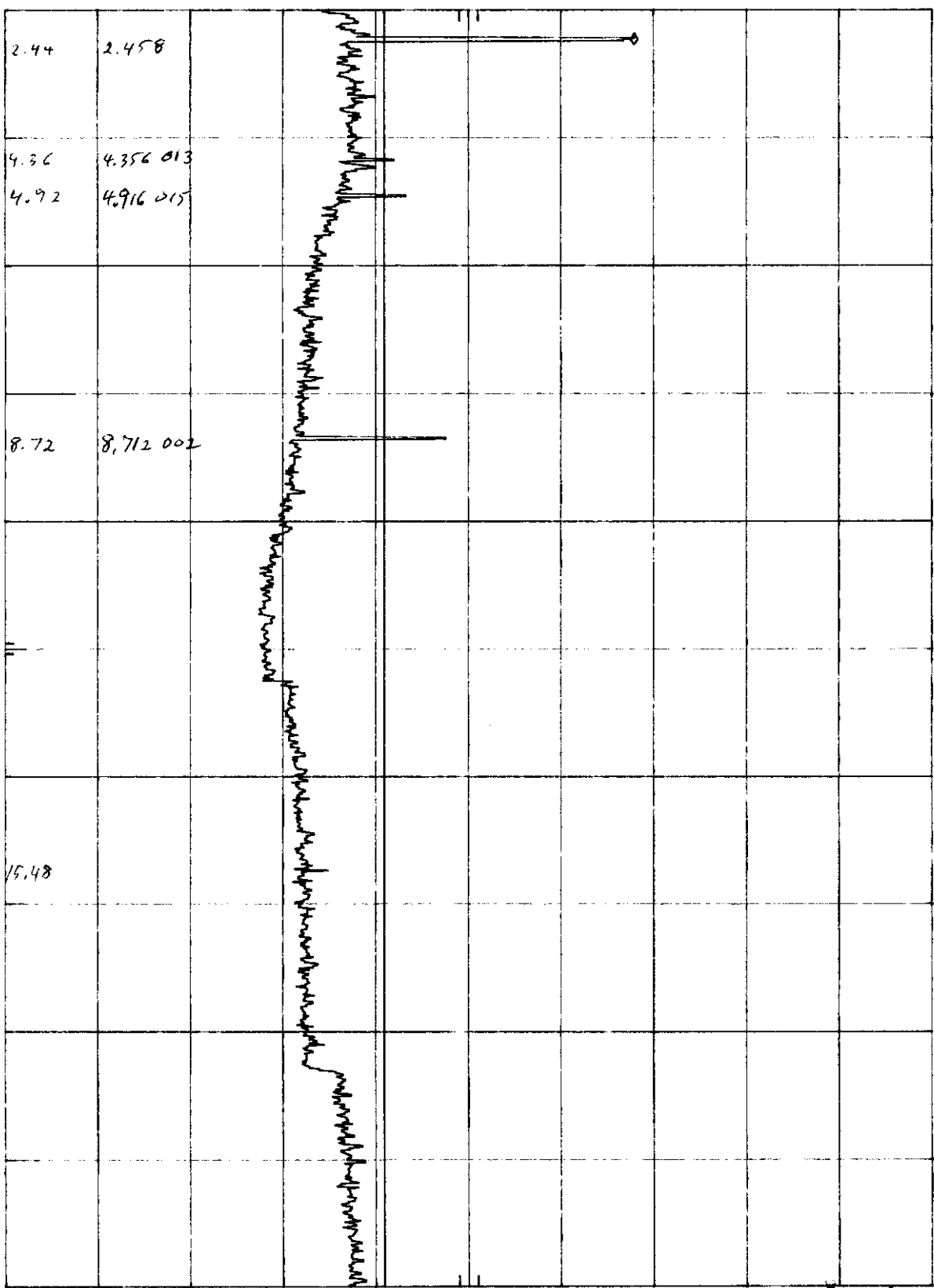
33.90 dBμV

hpo ~ REF 66.0 dBμV ATTN 0 dB

10 dB/

OFFSET
-31.0
dB

DL
6.9
dBμV



START 2.0 GHz

RES BW 100 KHz

VBW 300 KHz

STOP 22.0 GHz
SWP 6.00 sec

15.247, C.2

30° ONNI ch. 2

3-26-98

MKR 2.42 GHz

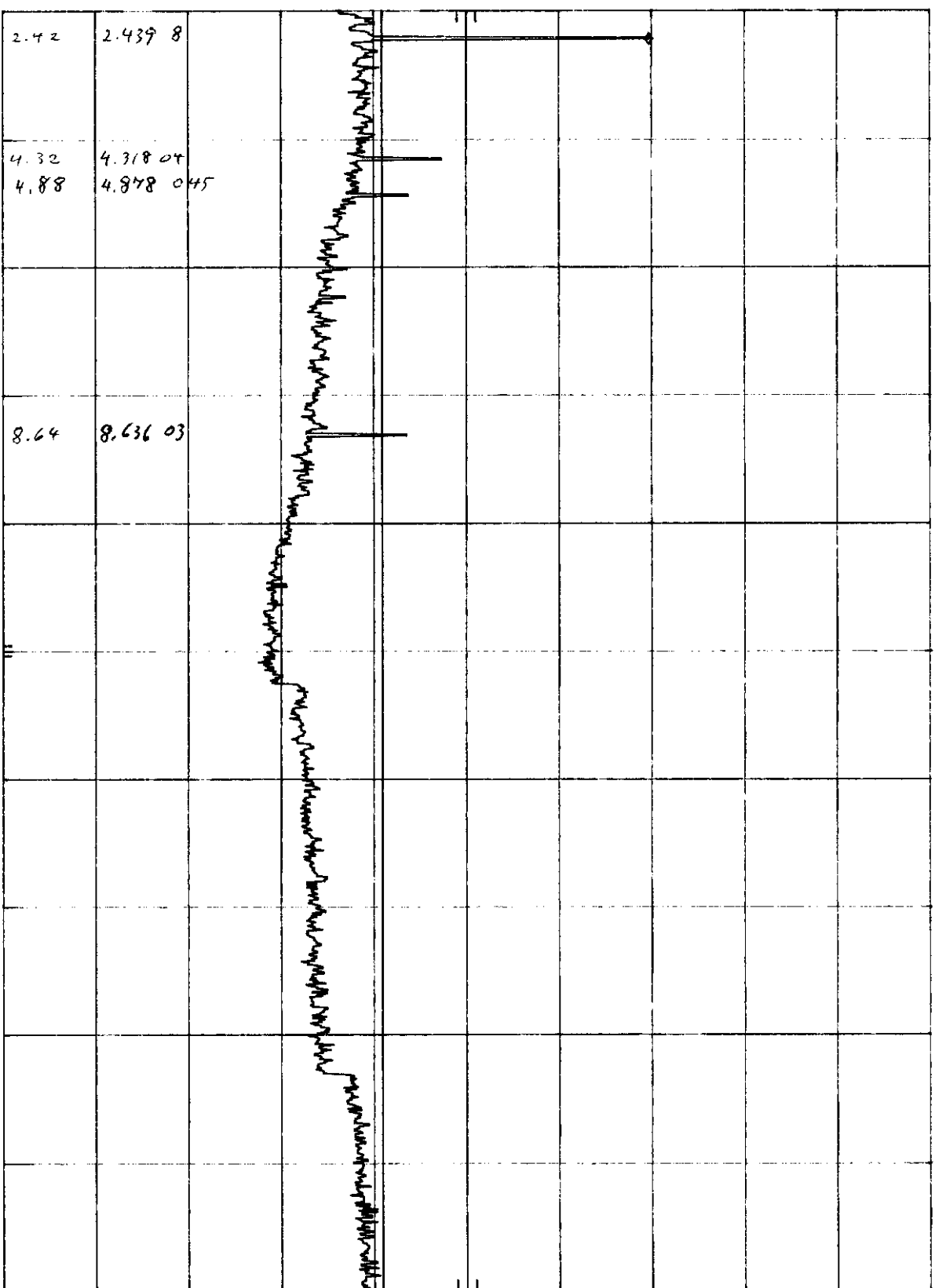
35.70 dBμV

h_p ~ REF 66.0 dBμV ATTEN 0 dB

10 dB/

OFFSET
-31.0
dB

DL
6.9
dBμV



START 2.0 GHz

RES BW 100 KHz

VBW 300 KHz

SMP 6.00 sec

STOP 22.0 GHz

15.247. C.2

AN T-DIR-21 ch 3

3-24-98

MKR 2.44 GHz

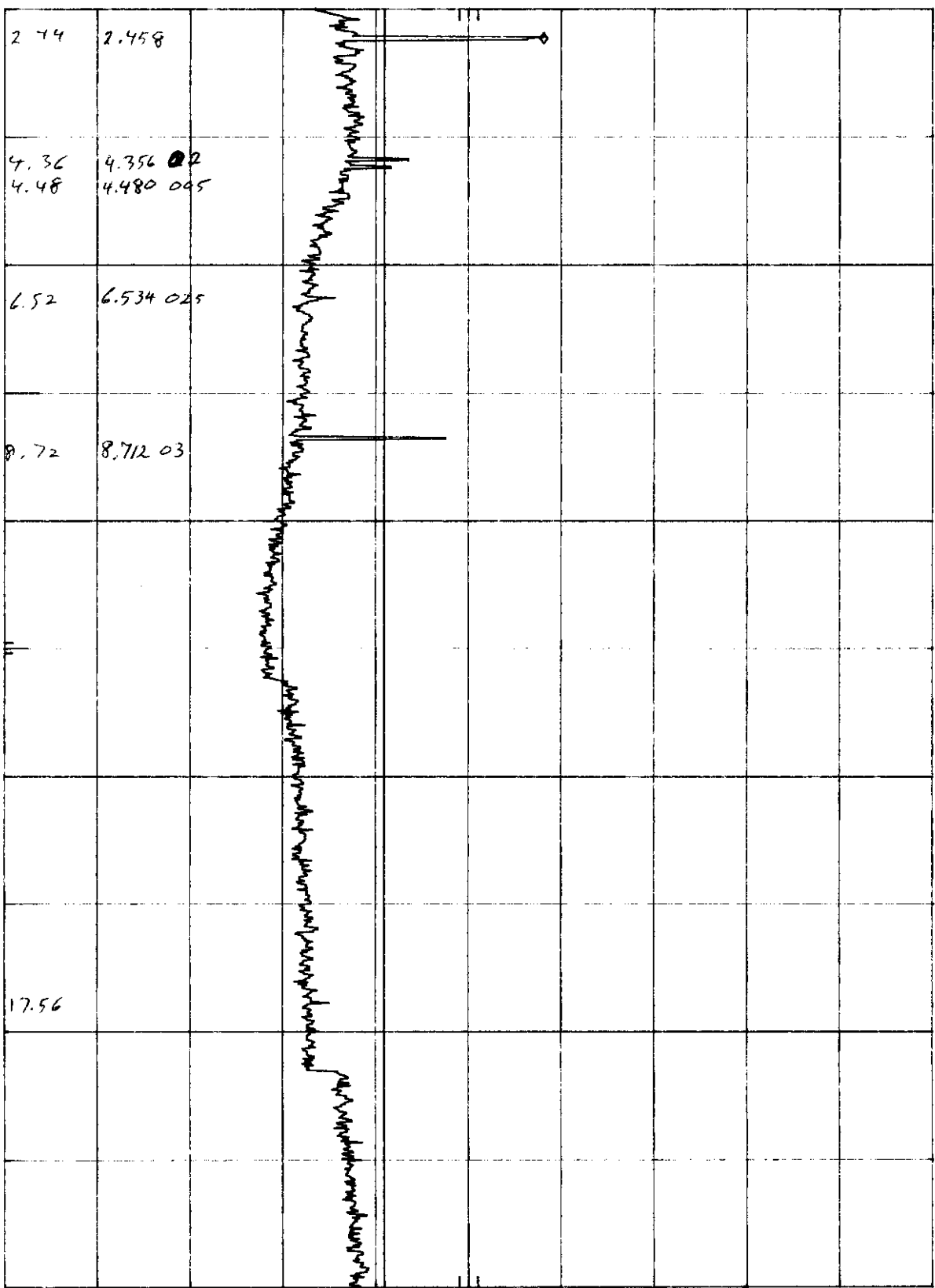
24.10 dBμV

h₀ ~ REF 66.0 dBμV ATTEN 0 dB

10 dB/

OFFSET
-31.0
dB

DL
6.9
dBμV



START 2.0 GHz

RES BW 100 KHz

VBW 300 KHz

STOP 22.0 GHz
SWP 6.00 sec

15,247, C. 2

ANT-DIR-21 OK 1

3-26-78

MKR 2.40 GHZ

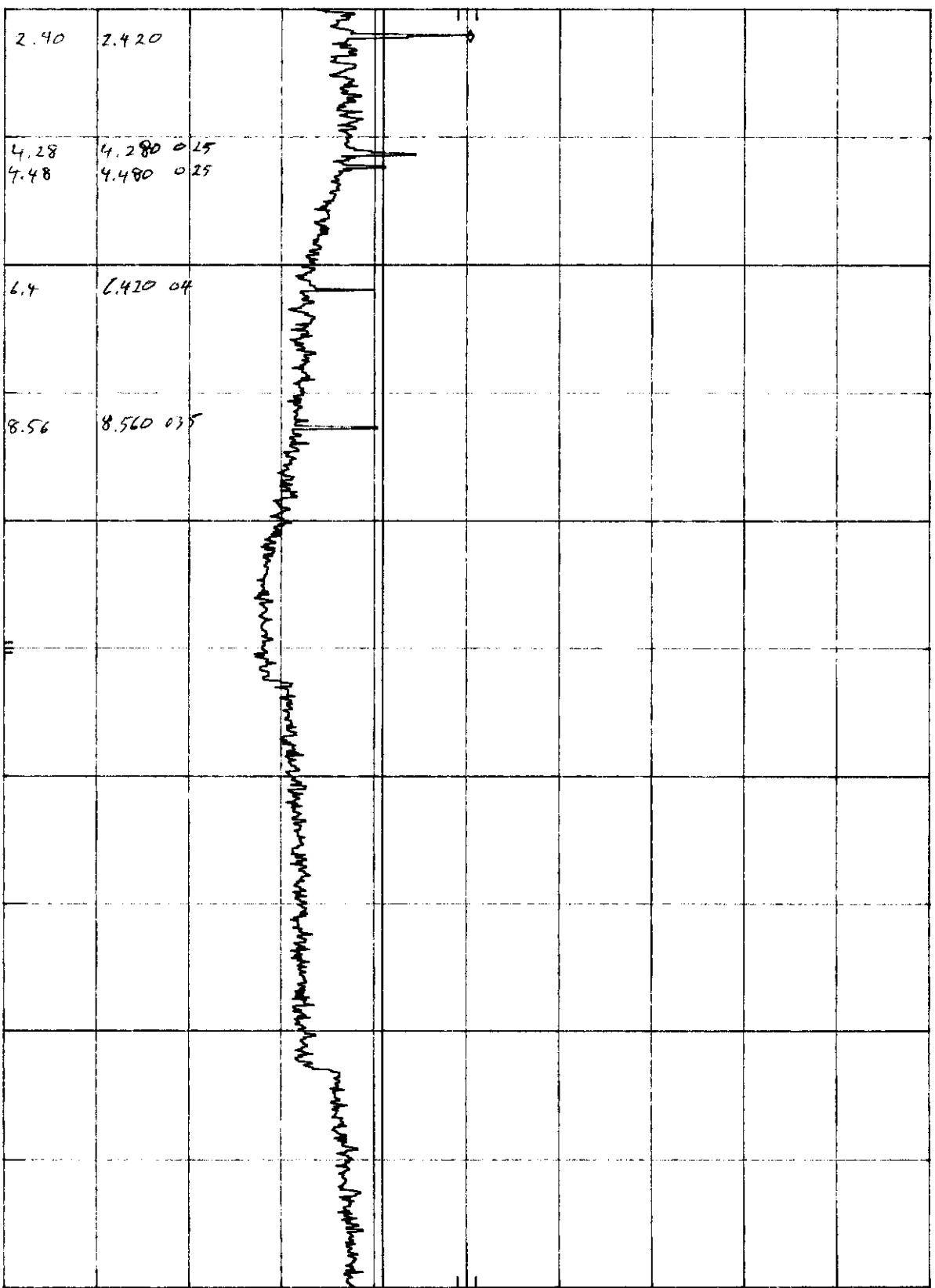
16.30 DBμV

h_p ~ REF 66.0 DBμV ATTEN 0 DB

10 DB/

OFFSET
-31.0
dB

DL
6.9
DBμV



START 2.0 GHZ

RES BW 100 KHZ

VBW 300 KHZ

STOP 22.0 GHZ
SWP 6.00 sec

15.247, C.2.

ANT-DIR-22 143

3-26-98

MKR 2.46 GHz

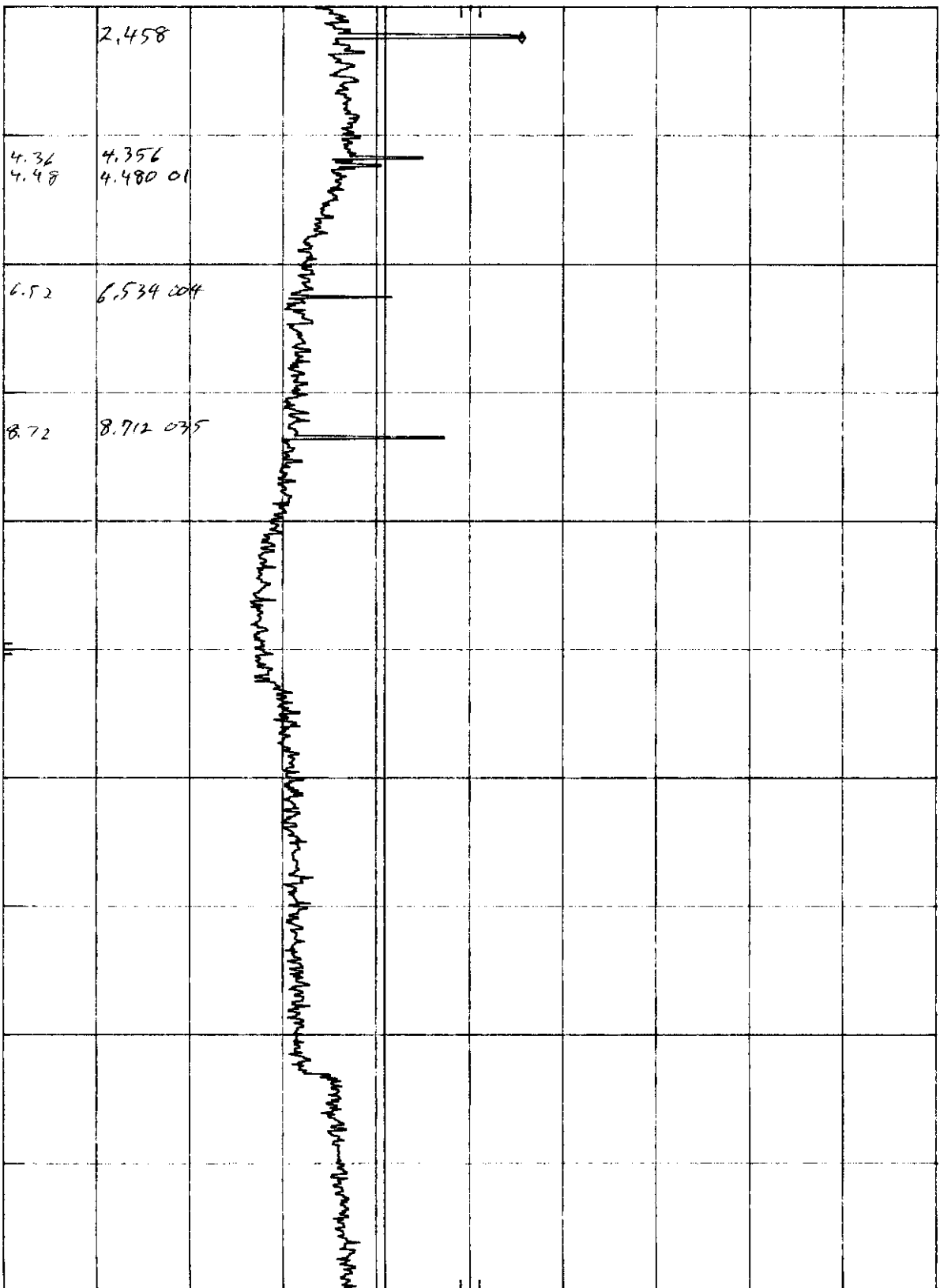
21.50 dBμV

h_p ~ REF 66.0 dBμV ATTEN 0 dB

10 dB/

OFFSET
-31.0
dB

DL
6.9
dBμV



START 2.0 GHz

RES BW 100 KHz

VBW 300 KHz

STOP 22.0 GHz
SWP 6.00 sec

15,247, C. 2.

ANT-DIR - 22 ch 1

3-26-98

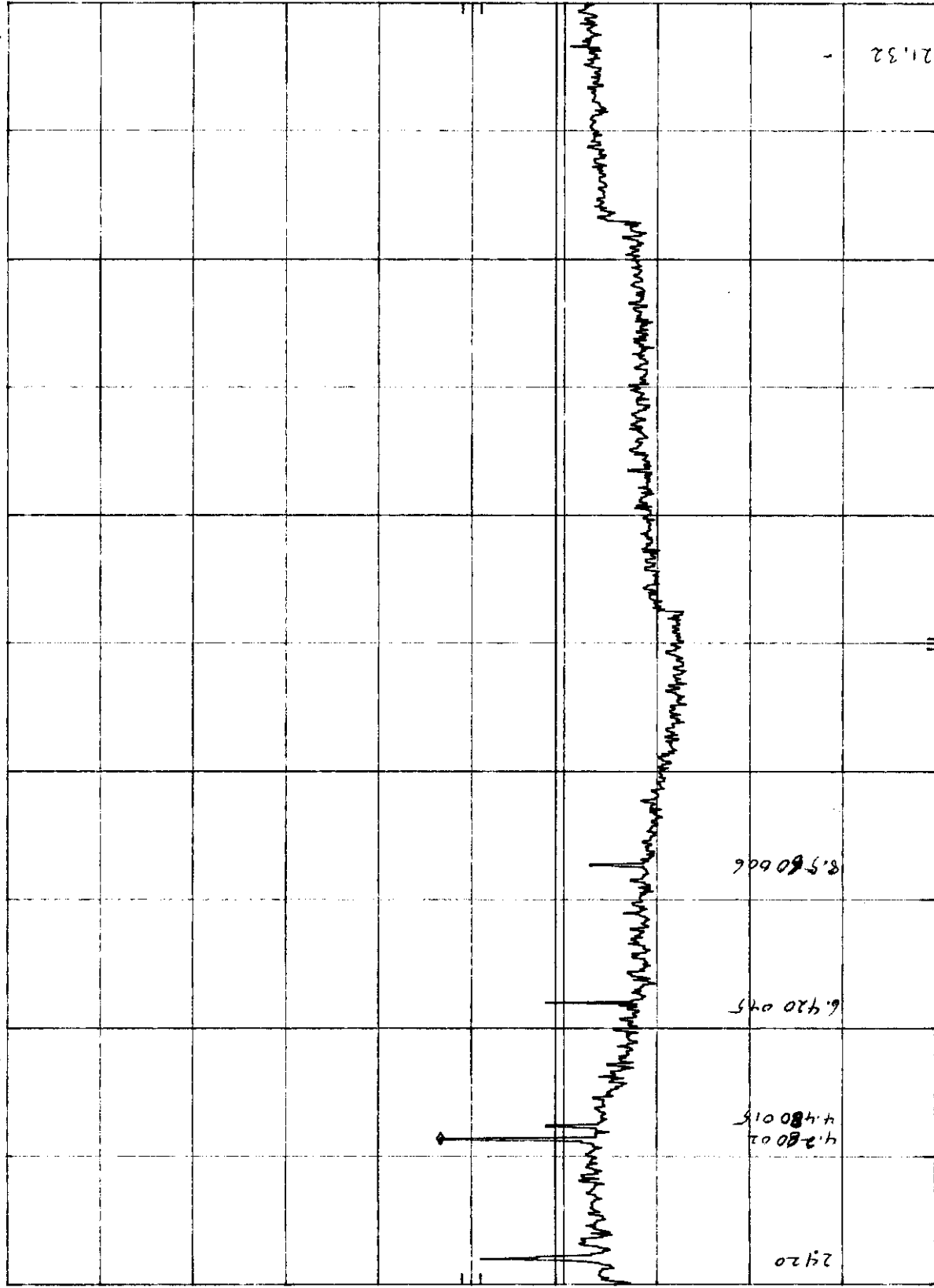
MKR 4.26 GHz
19.30 dBμV

HP ~ REF 66.0 dBμV ATTN 0 dB

10 dB/

OFFSET
-31.0
dB

DL
6.9
dBμV

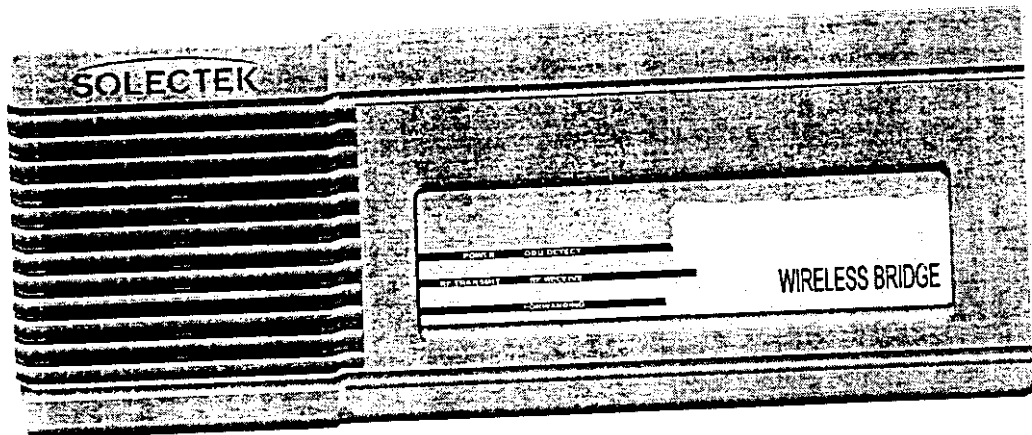


START 2.0 GHz STOP 22.0 GHz
RES BW 100 KHZ SWP 6.00 sec
VBW 300 KHZ

SOLECTEK

AIRLAN MP1100E

Wireless Bridge



OPERATOR'S GUIDE

Volume I

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February, 1998

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