

COMMENTS FROM SITE 23

Site 23 National Arboretum

Date: August 10, 1999

Weather Conditions: Clear to Partly Cloudy Sky; Temp 85°

Comments:

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

National Arboretum

Rx Site No. 23

p1

Set: 1/

Re: Rx Condx Ref. No. 1

Date / Time: 08/10/99 11:25 EDT

Re: Tx Condx Ref. No. 1

Operator: Adura

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename X

(1) NP Signal – NPTx ON:

		Ant:			
Power (Px)	-63.00dB	TV Pix	OK	Plot ID	23-1
				File Rec	X

(2) DBS Signals – NPTx OFF: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	
				File Rec	X

Sat 2	DTV	Ant:			
Power (Px)	-65.67dB	TV Pix	OK	Plot ID	23-2b
				File Rec	X

Sat 3	ES (61.5)	Ant:			
Power (Px)	-65.00dB	TV Pix	OK	Plot ID	23-2c
				File Rec	X

Sat 4	ES (119)	Ant:			
Power (Px)	-66.50dB	TV Pix	OK	Plot ID	23-2d
				File Rec	X

(3) DBS Signals – NPTx ON: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	
				File Rec	X

Sat 2	DTV	Ant:			
Power (Px)	-65.83dB	TV Pix		Plot ID	23-3b
				File Rec	X

Sat 3	ES (61.5)	Ant:			
Power (Px)	-64.50dB	TV Pix		Plot ID	23-3c
				File Rec	X

Sat 4	ES (119)	Ant:			
Power (Px)	-66.33dB	TV Pix		Plot ID	23-3d
				File Rec	X

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No. 23 p2
 Set: 11

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-18	75	75	69	76	76	75	78	75	76	80	Avg:	75.5
Sat 3	T-18	90	89	90	91	90	90	90	89	90	90	Avg:	89.9
Sat 4	T-18	85	85	84	83	85	84	84	84	84	85	Avg:	84.3

(3a) NPTx ON:

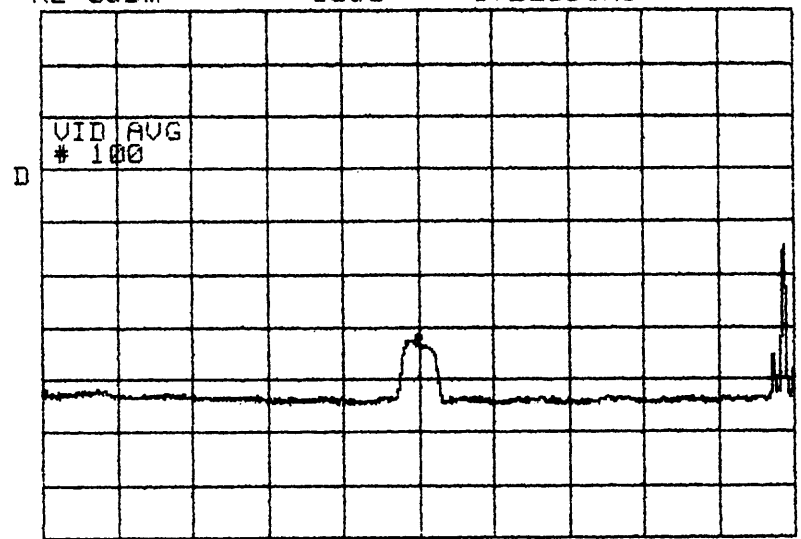
Sat 1	T-											Avg:	
Sat 2	T-18	77	82	80	78	77	76	79	76	77	81	Avg:	78.2
Sat 3	T-18	89	90	89	89	90	89	90	90	90	90	Avg:	89.6
Sat 4	T-18	85	85	85	84	85	84	84	85	85	85	Avg:	84.7

Legend // Comments:

NPTx – Northpoint Transmitter.

MW19
08/10/99
23-1

ATTEN 10dB UAUG 100 MKR -63.00dBm
RL 0dBm 10dB/ 1.2200GHz



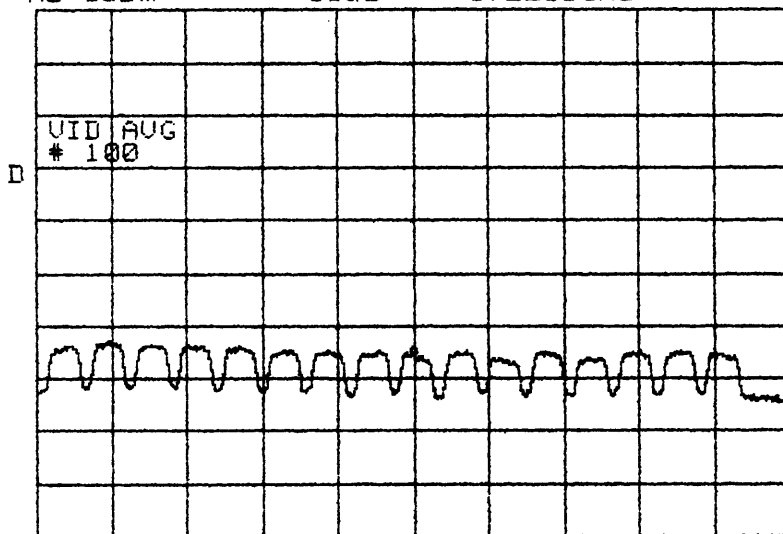
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

HAWA

08/10/99

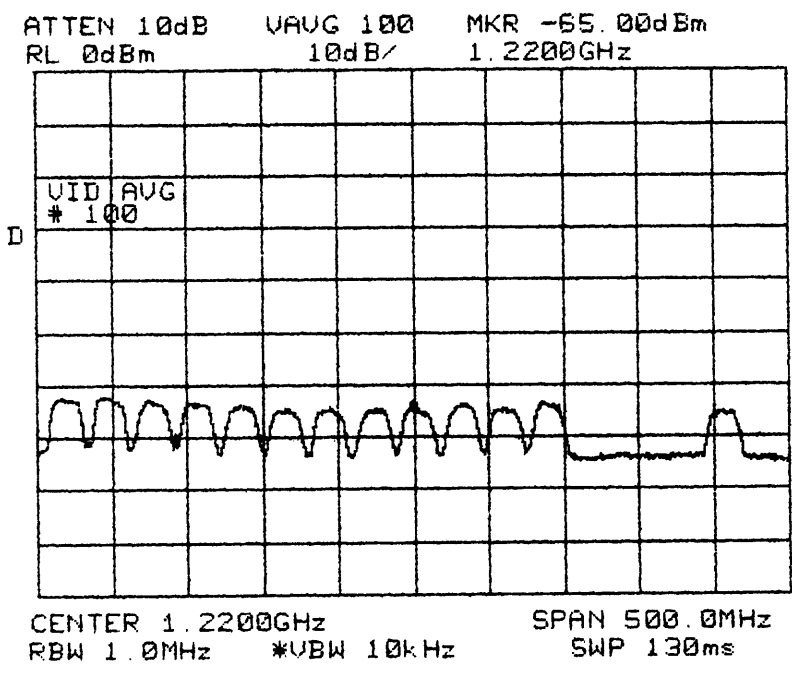
23-2b

ATTEN 10dB VAUG 100 MKR -65.67dBm
RL 0dBm 10dB/ 1.2200GHz

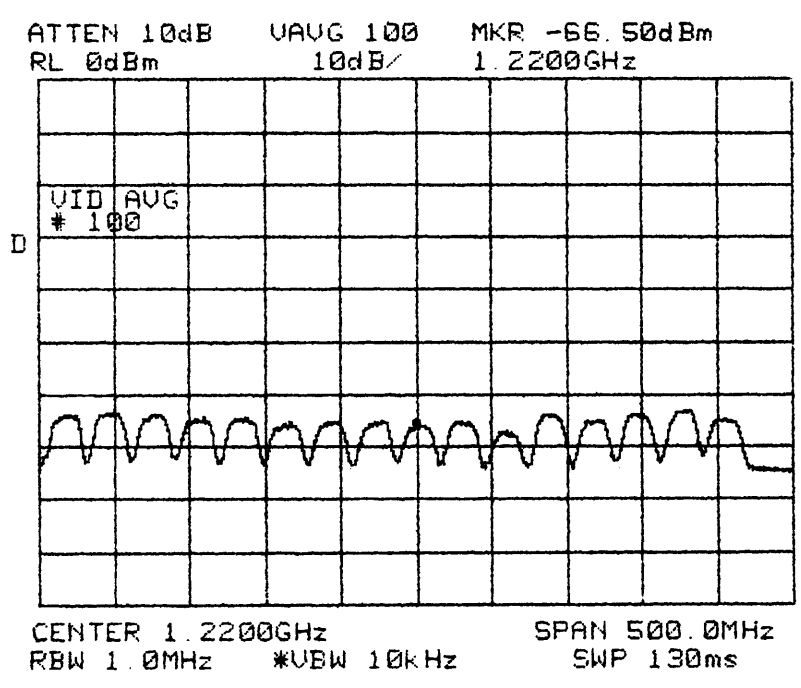


CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

Adura
08/10/99
23-2C

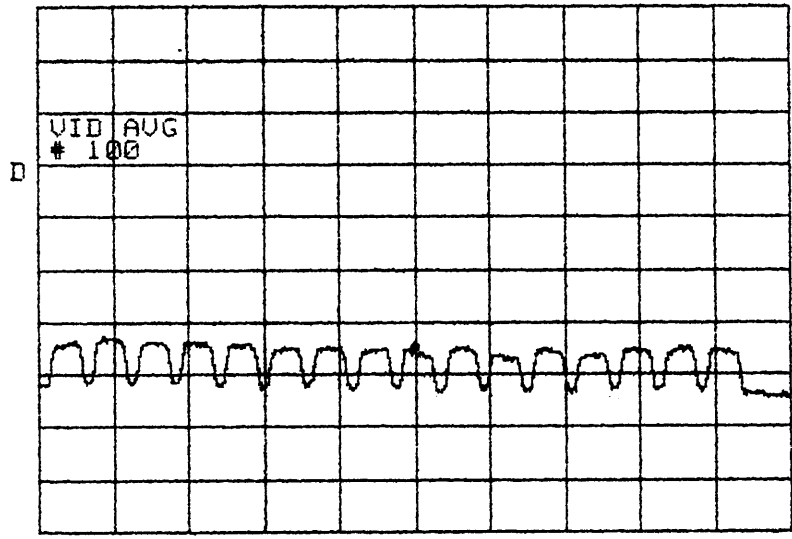


Adura
08/10/99
23-2d



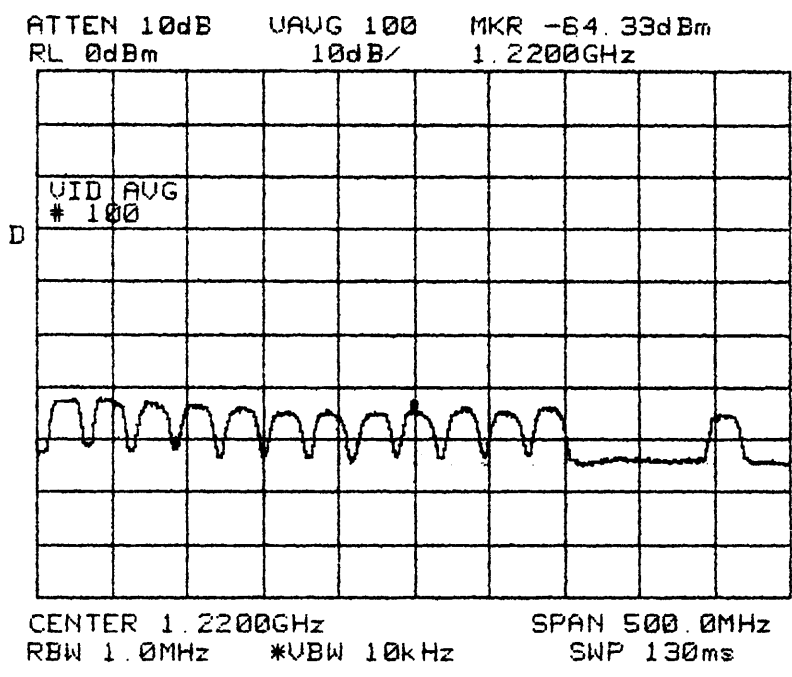
παινα
08/10/99
23-36

ATTEN 10dB VAUG 100 MKR -65.83dBm
RL 0dBm 10dB/ 1.2200GHz



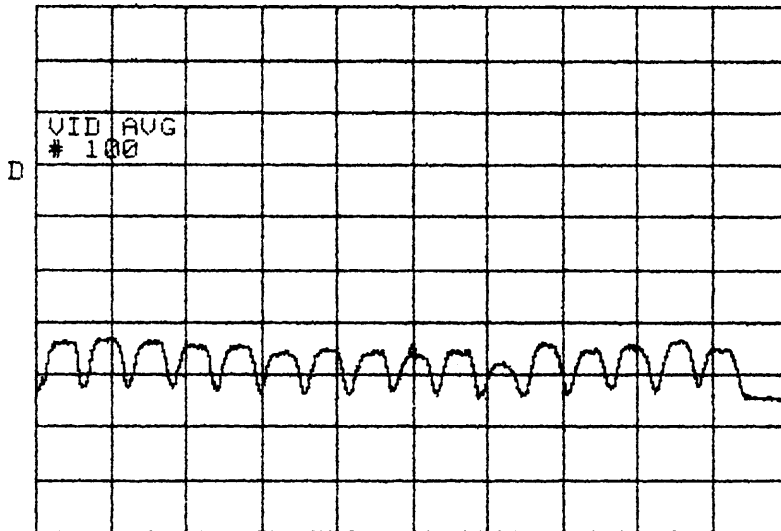
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

Adura
08/10/99
23-3c



1.1479
08/10/99
23-34

ATTEN 10dB VAUG 100 MKR -66.33dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Location Log

Rx Site No. 23
Set: 11

p1

Site Name:

Date / Time:

8/10/99 11:00 EDT

National Arboretum

Operator:

Dun

GPS Receiver Reading at Site:

Lat: N 38° 54.555

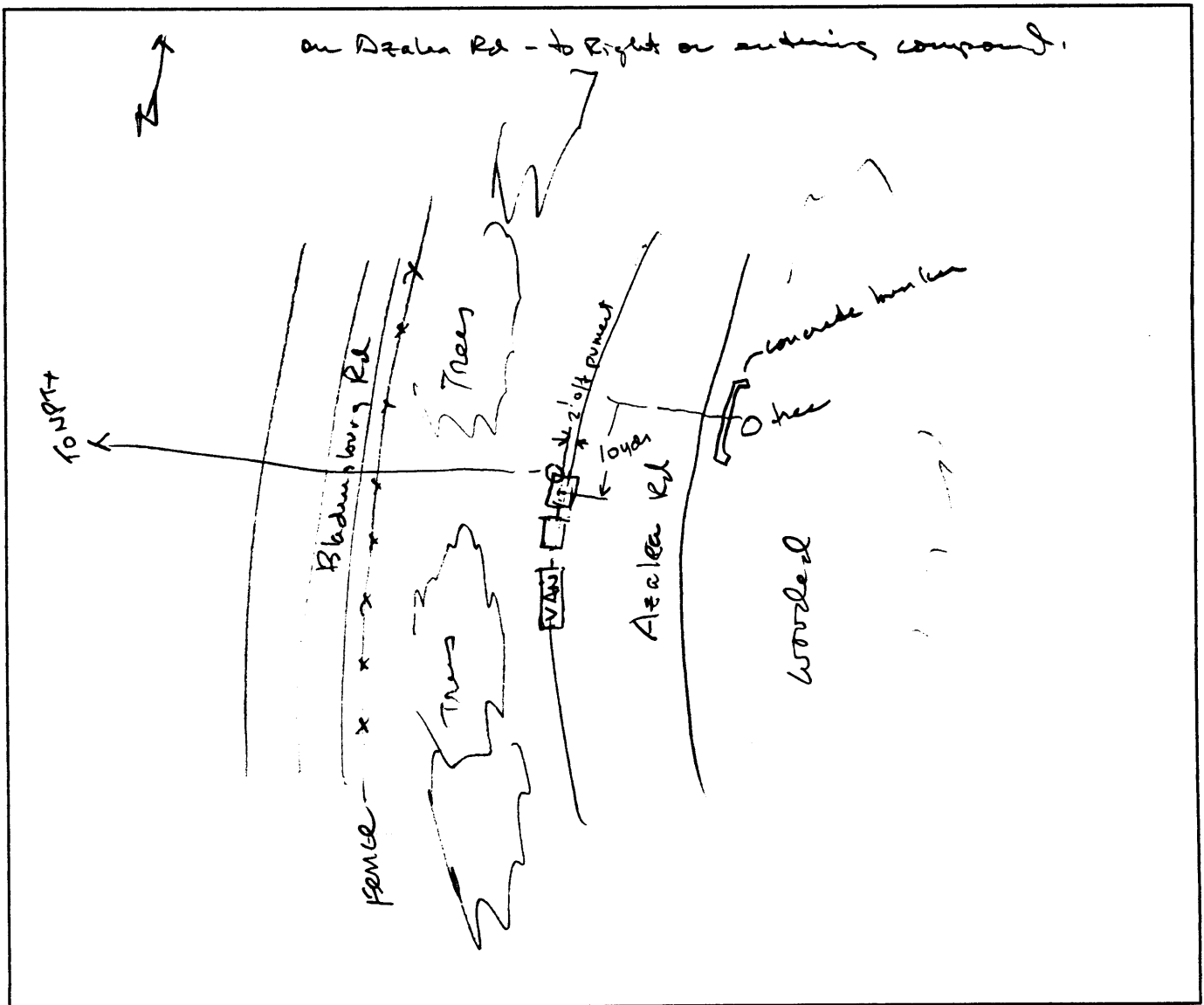
Time Read 16:13 GMT
EDT

Lon: W 076 58.601

Elev: 346

Weather: Clear to PC
~ 85°F

Map Sketch (show street reference and local benchmark features):



COMMENTS FROM SITE 22

Site 22 Our Lady of Perpetual Help
1500 Morris Road, S.E.
Washington, D.C.

Date: August 5, 1999
Weather Conditions: Clear/Hazy Sky; Temp 80°

Comments:

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

our lady of perp. help

Rx Site No. 22
Set: 1/1

p1

Re: Rx Condx Ref. No. 1

Date / Time: 08/05/99 9:35 EDT

Re: Tx Condx Ref. No. 1

Operator: Adura

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename X

(1) NP Signal – NPTx ON:

Boom down

		Ant: DBS 1		
Power (Px)	-62.67dB	TV Pix	Plot ID	22-1
Power (Px)	-63.67dB	<i>Boom up 20' Aglant</i>	Plot ID	22-1a

(2) DBS Signals – NPTx OFF: (Do also ssp data on page 2).

Sat 1	110	Ant:		Plot ID		File Rec	
Power (Px)		TV Pix		Plot ID		File Rec	
Sat 2	DTV (101)	Ant: NP3		Plot ID	22-2b	File Rec	X
Power (Px)	-65.33dB	TV Pix		Plot ID	22-2c	File Rec	X
Sat 3	ES (61.5)	Ant: NP4		Plot ID	22-2c	File Rec	X
Power (Px)	-66.67dB	TV Pix		Plot ID	22-2d	File Rec	X
Sat 4	ES (119)	Ant: NP2		Plot ID	22-2d	File Rec	X
Power (Px)	-64.17dB	TV Pix		Plot ID		File Rec	

(3) DBS Signals – NPTx ON: (Do also ssp data on page 2).

Sat 1		Ant:		Plot ID		File Rec	X
Power (Px)		TV Pix		Plot ID	22-3b	File Rec	X
Sat 2	DTV (101)	Ant: NP3		Plot ID	22-3c	File Rec	X
Power (Px)	-64.0dB	TV Pix		Plot ID	22-3d	File Rec	X
Sat 3	ES (61.5)	Ant: NP4		Plot ID	22-3d	File Rec	X
Power (Px)	-66.50dB	TV Pix		Plot ID		File Rec	
Sat 4	ES (119)	Ant: NP2		Plot ID	22-3d	File Rec	X
Power (Px)	-63.83dB	TV Pix		Plot ID		File Rec	

(4) NPTx OFF.

Northpoint Technology – DBS Compatibililty Test – Washington DC Area

Rx Site Data Log

Rx Site No.

22

p2

Set:

11

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-18	81	81	82	81	82	84	81	84	81	82	Avg:	81.9
Sat 3	T-18	90	89	91	91	90	91	90	90	91	89	Avg:	90.2
Sat 4	T-18	95	95	95	95	95	95	95	96	95	95	Avg:	95.1

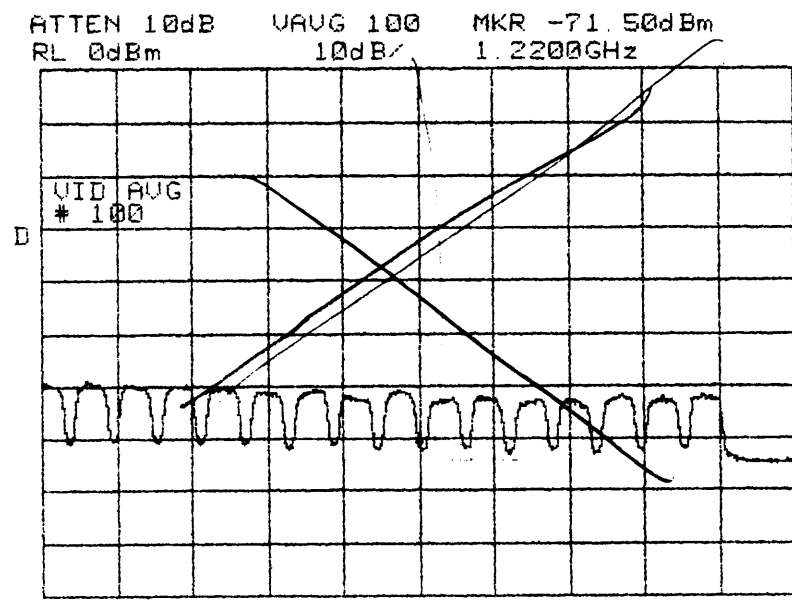
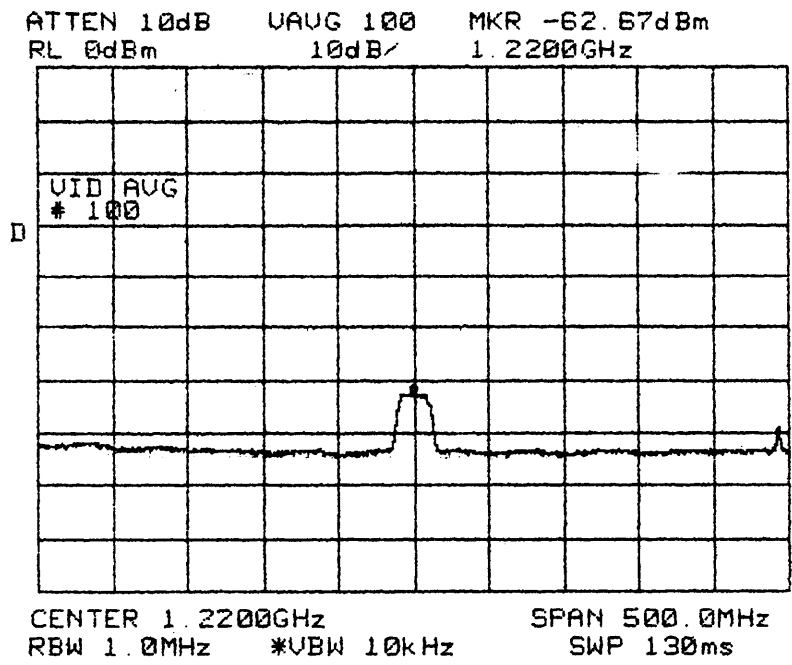
(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-18	83	82	82	82	83	83	82	81	82	82	Avg:	82.2
Sat 3	T-18	89	90	91	89	93	91	91	91	89	90	Avg:	90.4
Sat 4	T-18	98	98	98	98	98	98	98	98	98	98	Avg:	98.0

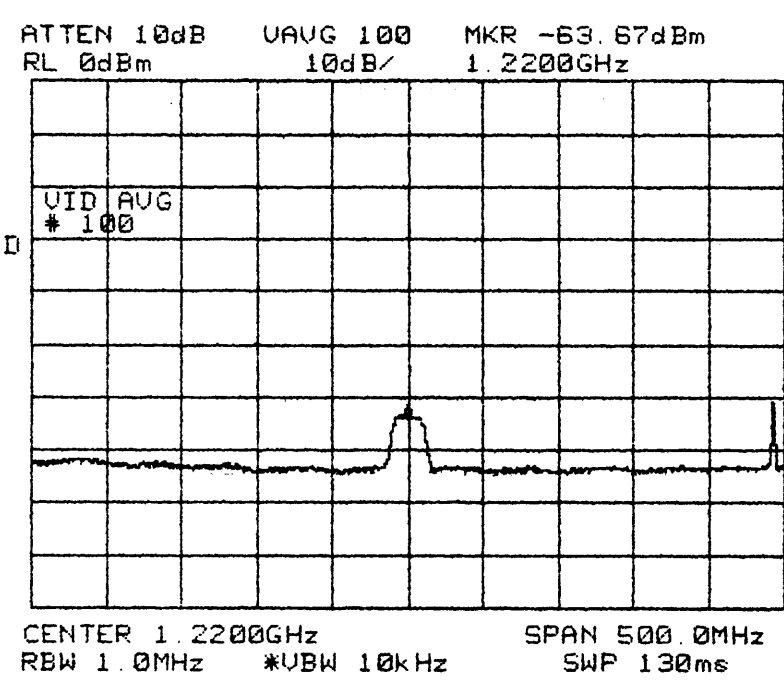
Legend // Comments:

NPTx – Northpoint Transmitter.

Adjust
8/1
22-1

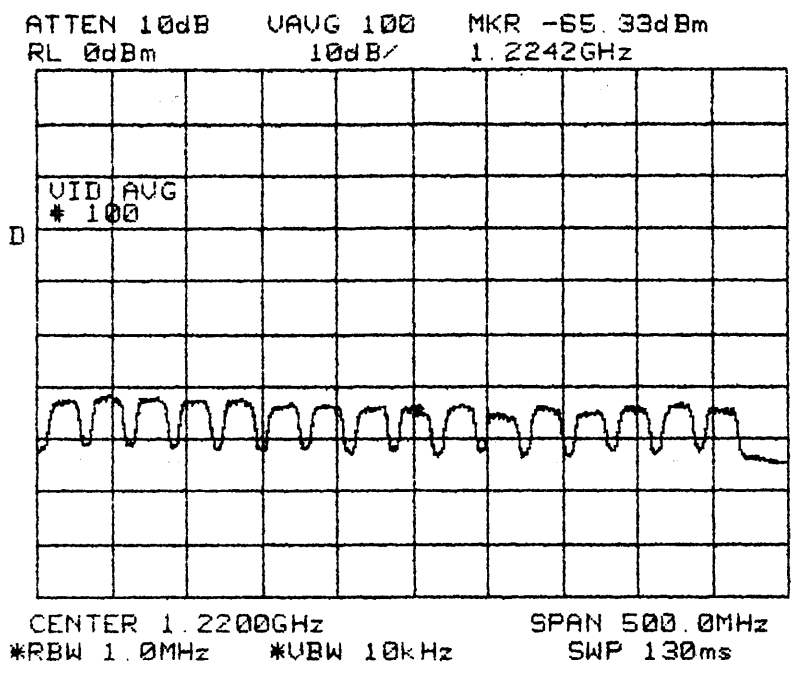


Adura 8/5/99
22-1a
Boom up 20' agl-ant

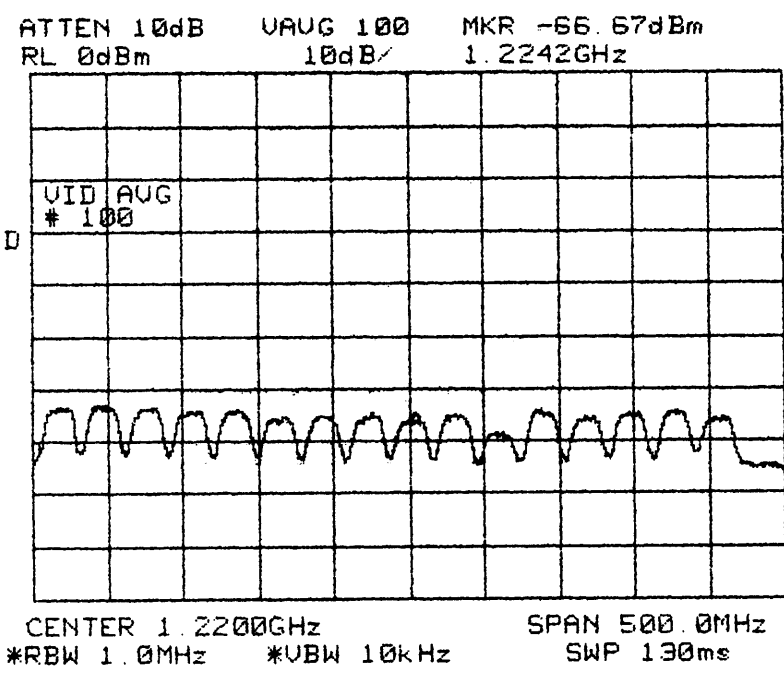


#dlw
8/5/99

22-26

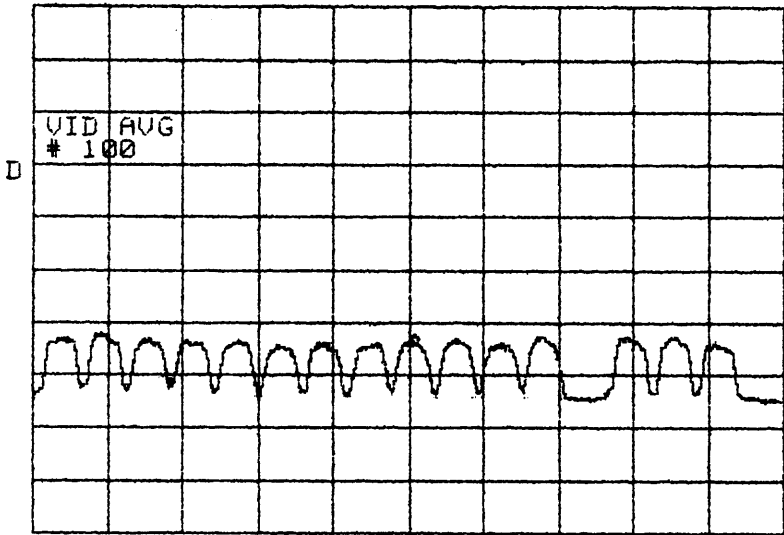


Adura
8/5/99
22-26



Helena
8/5/99
22-2c

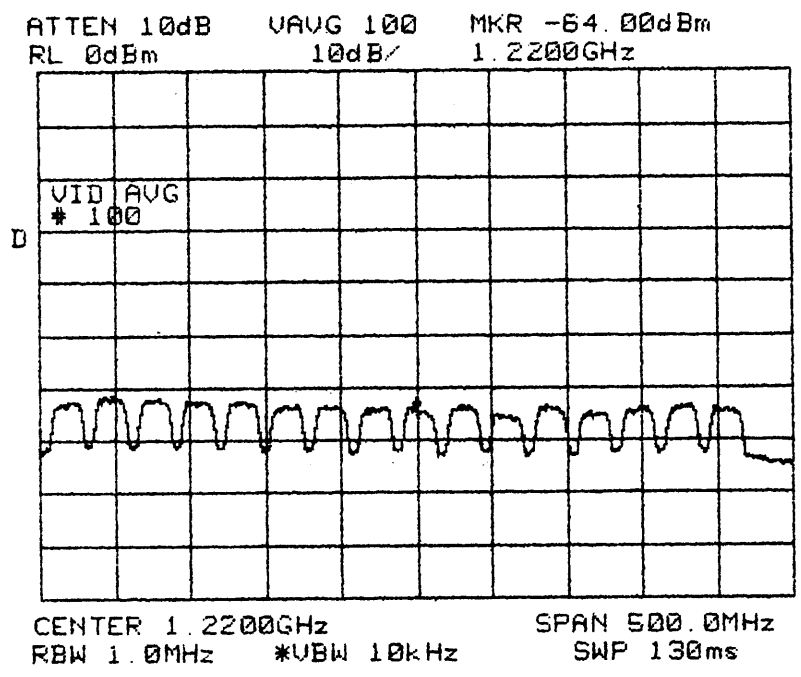
ATTEN 10dB VAUG 100 MKR -64.17dBm
RL 0dBm 10dB 1.2242GHz



CENTER 1.2200GHz SPAN 500.0MHz
*RBW 1.0MHz *VBW 10kHz SWP 130ms

Adura

8/5/99
22-28

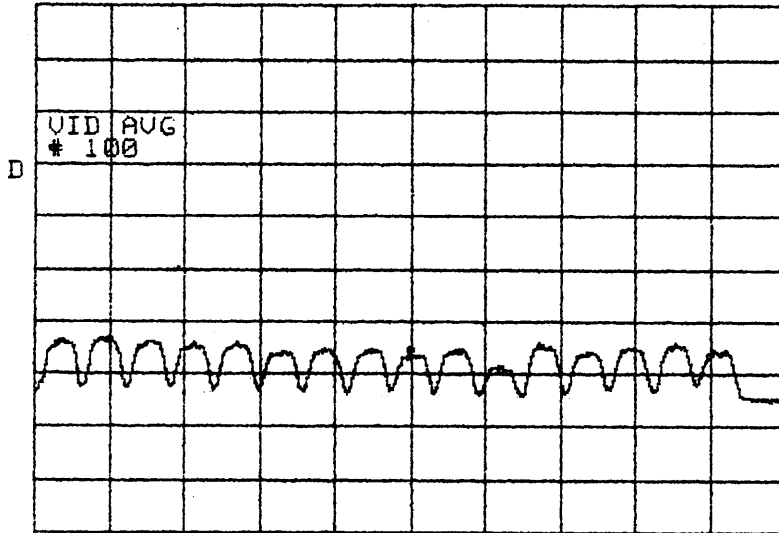


Adura

8/8/99

22-30

ATTEN 10dB VAUG 100 MKR -66.50dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

COMMENTS FROM SITE 8A

Site 8A Fort Greble

Date: August 11, 1999

Weather Conditions: Partly Cloudy; Temp 90°

Comments: Boom lift was down.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Fort Gable

Rx Site No.

8A

p1

Set:

11

Re: Rx Condx Ref. No.

1

Date / Time:

8/11/99 3:20 EDT

Re: Tx Condx Ref. No.

1

Operator:

Jonathan

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename

Boom Down

(1) NP Signal – NPTx ON:

Boom Down

	DBS-1	Ant:			
Power (Px)	-68.50	TV Pix	OK	Plot ID	8A-1
				File Rec	

(2) DBS Signals – NPTx OFF: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	
				File Rec	

Sat 2	DTV	Ant: NP3			
Power (Px)	-65.00	TV Pix	OK	Plot ID	8A-2a
				File Rec	

Sat 3	ES (11a)	Ant: NP4/2			
Power (Px)	-67.00	TV Pix	OK	Plot ID	8A-2b
				File Rec	

Sat 4	ES (61.3)	Ant: NP4			
Power (Px)	-64.33	TV Pix	OK	Plot ID	8A-2c
				File Rec	

(3) DBS Signals – NPTx ON: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	
				File Rec	

Sat 2	DTV	Ant: NP3			
Power (Px)	-65.00	TV Pix	OK	Plot ID	8A-3a
				File Rec	

Sat 3	ES (11a)	Ant: NP4/2			
Power (Px)	-67.17	TV Pix	OK	Plot ID	8A-3b
				File Rec	

Sat 4	ES (61.5)	Ant: NP4			
Power (Px)	-64.00	TV Pix	OK	Plot ID	8A-3c
				File Rec	

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No. 8A p2
 Set: 11

Signal Strength Pointer (ssp) Data --

(2a) NPTx OFF:

	Sat 1	T-										Avg:		
DTV	Sat 2	T-19	78	81	78	78	80	83	78	75	80	79	Avg:	78.9
ES-119	Sat 3	T-18	89	89	89	89	89	89	89	89	89	89	Avg:	89.0
ES-615	Sat 4	T-18	95	95	95	95	95	95	95	95	95	95	Avg:	95.0

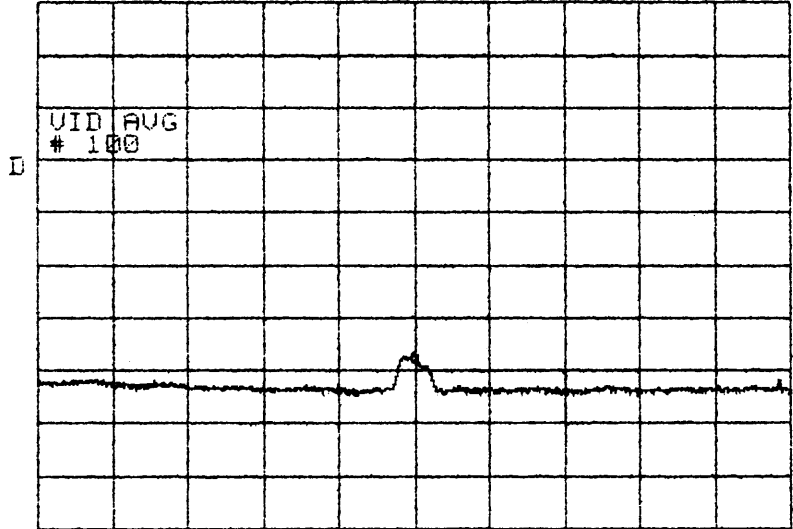
(3a) NPTx ON:

	Sat 1	T-										Avg:		
DTV	Sat 2	T-	80	77	81	81	81	77	78	81	76	80	Avg:	79.2
ES-119	Sat 3	T-	91	91	89	90	89	89	89	89	88	89	Avg:	89.4
ES-615	Sat 4	T-	95	95	95	95	95	95	96	95	95	95	Avg:	95.0

Legend // Comments:

NPTx – Northpoint Transmitter.

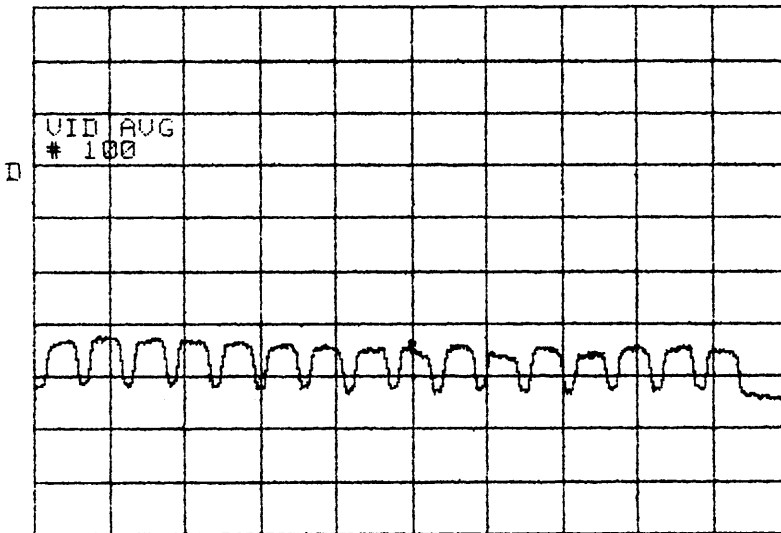
ATTEN 10dB UAUG 100 MKR -68.50dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

8A-1

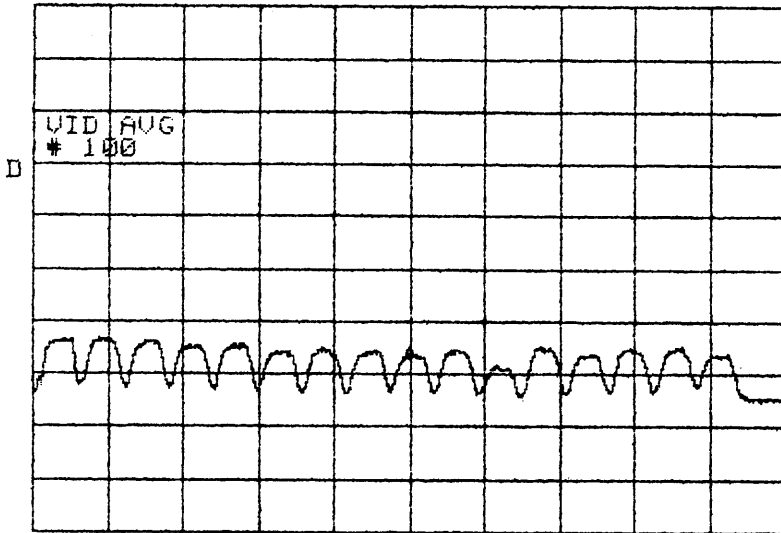
ATTEN 10dB VAUG 100 MKR -65.00dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

8A-2a

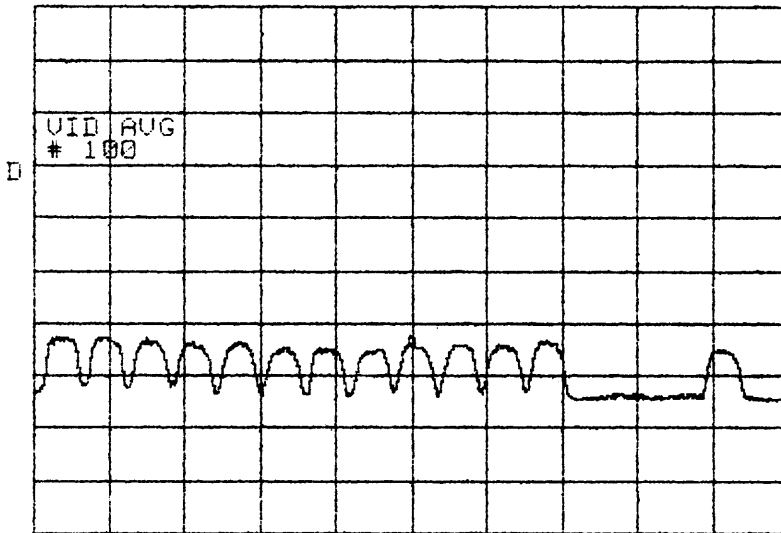
ATTEN 10dB VAUG 100 MKR -67.00dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

SA-26

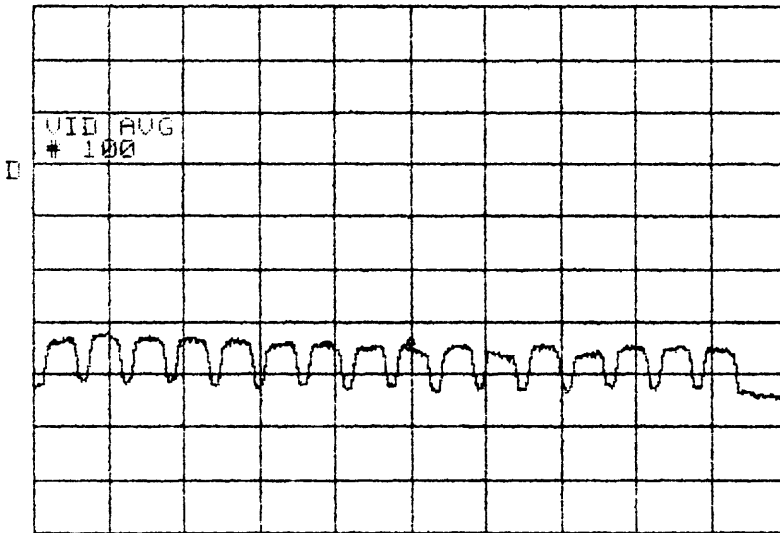
ATTEN 10dB UAUG 100 MKR -64.33dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

8A-2c

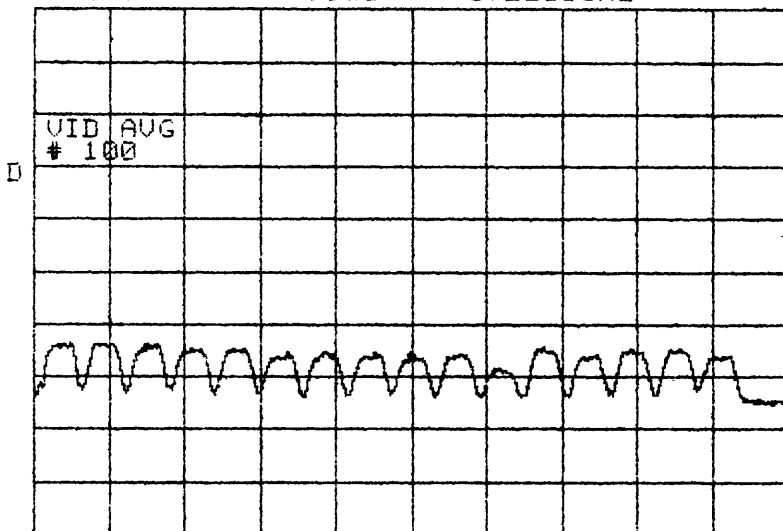
ATTEN 10dB UAUG 100 MKR -55.00dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

8A-3a

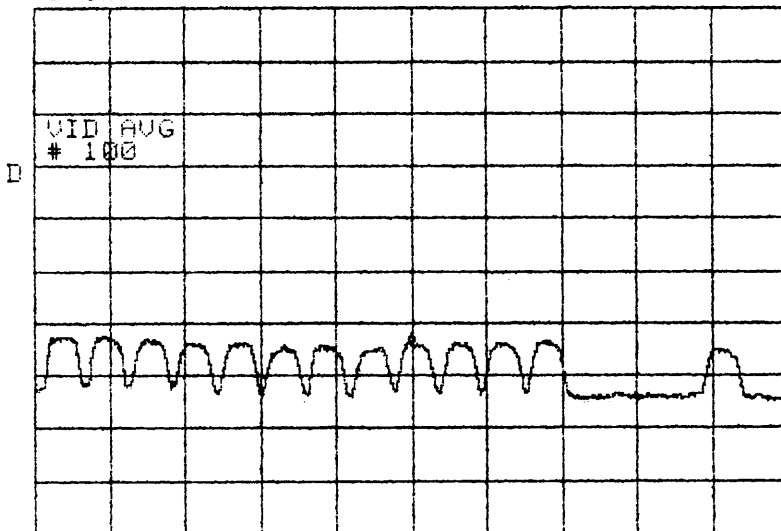
ATTEN 10dB VAUG 100 MKR -67.17dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

8A-36

ATTEN 10dB UAUG 100 MKR -64.00dBm
RL 0dBm 10dB/ 1.2200GHz



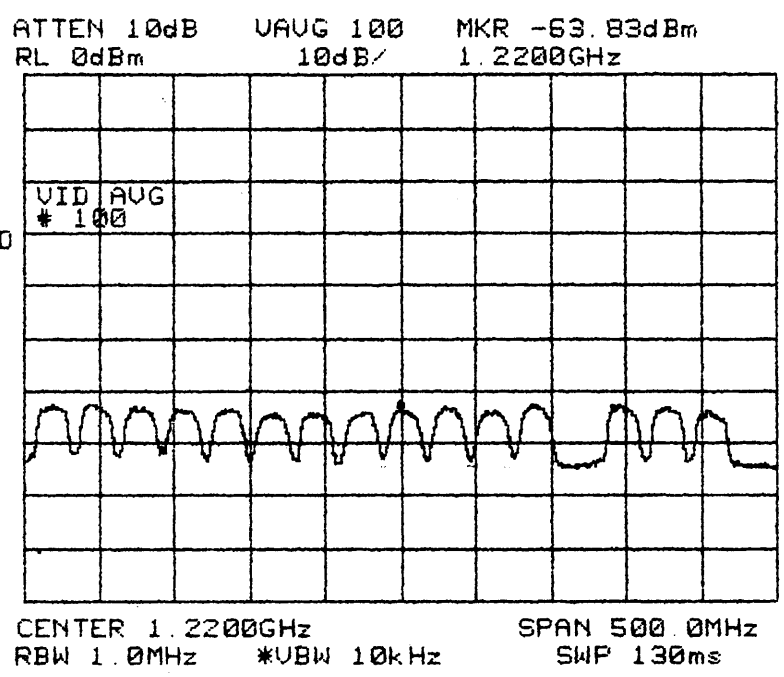
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

8A-3c

1 tower

8/5/99

22-3 d



Northpoint Technology - DBS Compatibility Test - Washington DC Area

Rx Site Location Log

Rx Site No. 22 p1
Set: 11

Site Name:

Date / Time:

8/5/99 09:15 EDT

Our Lady of
parish delay

Operator:

John / Stacy

GPS Receiver Reading at Site:

Lat: N 38 51.277

Time Read 13:35:00 EDT

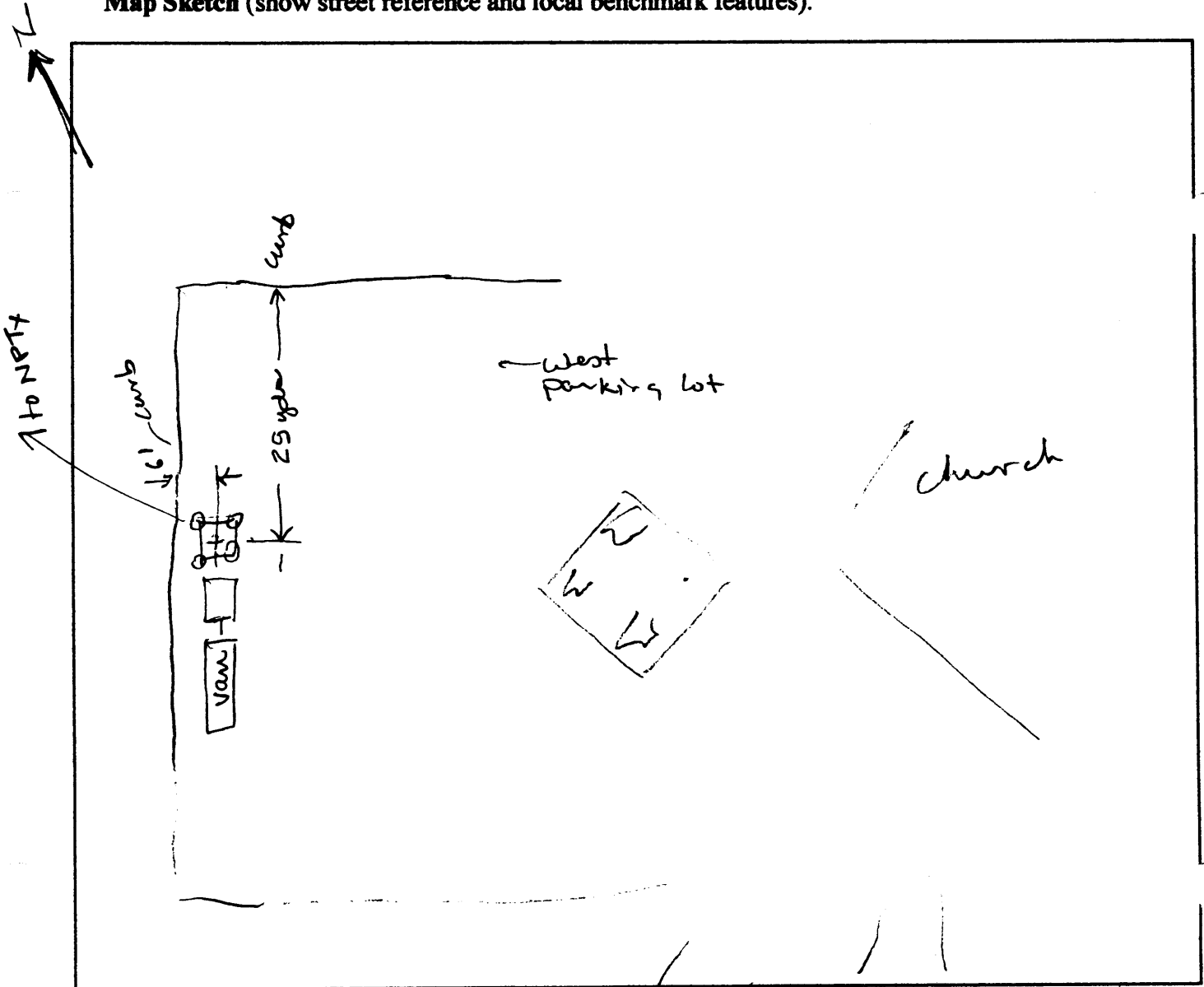
Lon: N 076 59.006

Elev: 231 (not reliable)

1056 EDT
redo
N 38 51 29.7
W 076 58 59.1
345

Weather: Clear / hazy
~ 80°F

Map Sketch (show street reference and local benchmark features):



Northpoint Technology - DBS Compatibility Test - Washington DC Area

Rx Site Location Log

Rx Site No. 8A p1
Set: 1/1

Site Name:

Date / Time:

8/11/99 EDT

FT. ~~CABLE~~ Greble

Operator:

FLOYD NELSON

GPS Receiver Reading at Site:

Lat: N 38° 49.612'

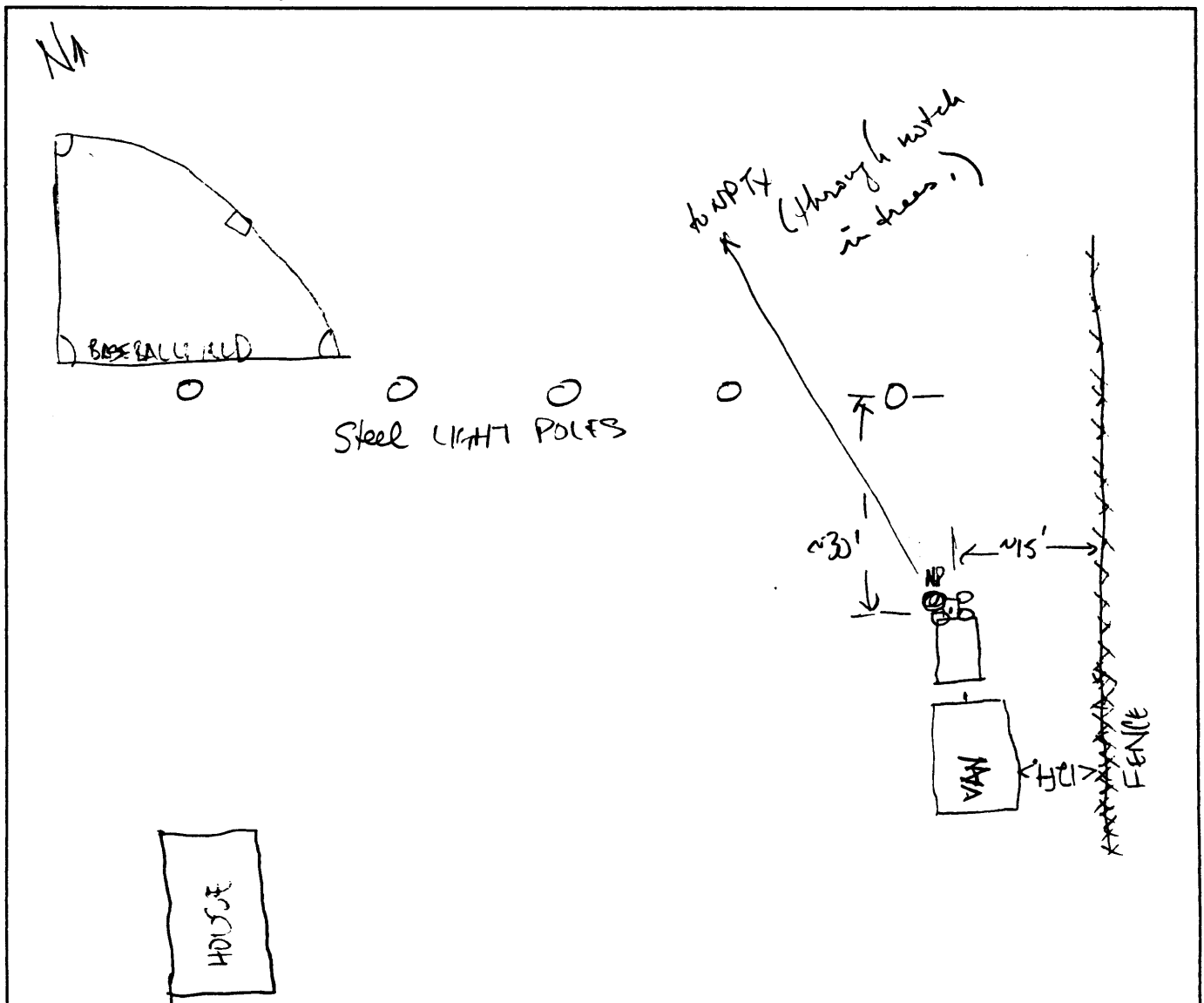
Time Read 19:44 GMT
EDT

Lon: W 077° 00.865'

Elev: 319 FT

Weather: PARTLY CLOUDY
~90°F

Map Sketch (show street reference and local benchmark features):



COMMENTS FROM SITE 8A-A

Site 8A-A Fort Greble (same location as 8A)

Date: August 11, 1999

Weather Conditions:

Comments: Boom lift is up at 25' above ground level.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Gneble
For Gneble

Rx Site No. 8A-A p1
Set: 11

Re: Rx Condx Ref. No. 1 Date / Time: 8/11/99 4:00^{pm} EDT
Re: Tx Condx Ref. No. 1 Operator: Jonathan

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47 Disk Filename

Boom Up
25 feet agl

(1) NP Signal – NPTx ON:

Boom Up - 25' AGL
same location as 8A

	<i>UBS-1</i>	Ant:			
Power (Px)	<i>-65.33</i>	TV Pix	<i>OK</i>	Plot ID	<i>8A-A-1</i>
				File Rec	

(2) DBS Signals – NPTx OFF: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	<i>-</i>
				File Rec	

Sat 2	<i>DTV</i>	Ant: <i>NP3</i>			
Power (Px)	<i>-65.67</i>	TV Pix	<i>OK</i>	Plot ID	<i>8A-A-2a</i>
				File Rec	

Sat 3	<i>ES (119)</i>	Ant: <i>NP 2</i>			
Power (Px)	<i>-67.17</i>	TV Pix	<i>OK</i>	Plot ID	<i>8A-A-2b</i>
				File Rec	

Sat 4	<i>ES (61.5)</i>	Ant: <i>NP 4</i>			
Power (Px)	<i>-63.67</i>	TV Pix	<i>OK</i>	Plot ID	<i>8A-A-2c</i>
				File Rec	

(3) DBS Signals – NPTx ON: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	
				File Rec	

Sat 2	<i>DTV</i>	Ant: <i>NP3</i>			
Power (Px)	<i>-65.33</i>	TV Pix	<i>OK</i>	Plot ID	<i>8A-A-3a</i>
				File Rec	

Sat 3	<i>ES (119)</i>	Ant: <i>NP 2</i>			
Power (Px)	<i>-67.67</i>	TV Pix	<i>OK</i>	Plot ID	<i>8A-A-3b</i>
				File Rec	

Sat 4	<i>ES (61.5)</i>	Ant: <i>NP 4</i>			
Power (Px)	<i>-64.17</i>	TV Pix	<i>OK</i>	Plot ID	<i>8A-A-3c</i>
				File Rec	

(4) NPTx OFF.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Rx Site No. 8A-A p2
 Set: 11

Signal Strength Pointer (ssp) Data --

Boom up - 25' AGL

(2a) NPTx OFF:

Sat 1	T-										Avg:		
Sat 2	T-18	81	82	87	83	82	81	83	81	80	81	Avg:	82.1
Sat 3	T-18	88	88	87	87	87	87	88	88	88	88	Avg:	87.6
Sat 4	T-18	97	97	97	97	97	97	97	97	98	96	Avg:	97.0

(3a) NPTx ON:

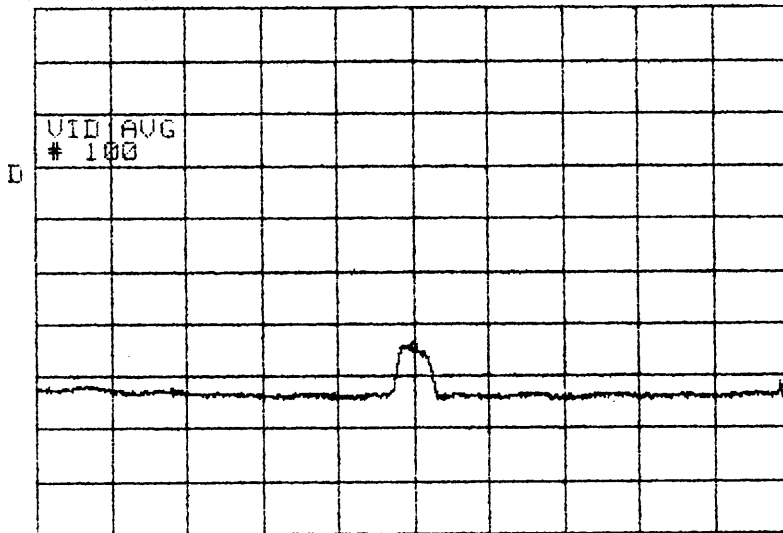
Sat 1	T-										Avg:		
Sat 2	T-18	80	83	79	82	78	82	80	78	81	80	Avg:	80.3
Sat 3	T-18	84	86	88	85	87	87	85	85	84	85	Avg:	85.6
Sat 4	T-18	97	97	96	96	97	97	95	97	97	97	Avg:	96.6

Legend // Comments:

NPTx – Northpoint Transmitter.

** Note - Ant platform was not very stable -
 I think this small deviation was due to
 Ant. pointing change. Dkw,*

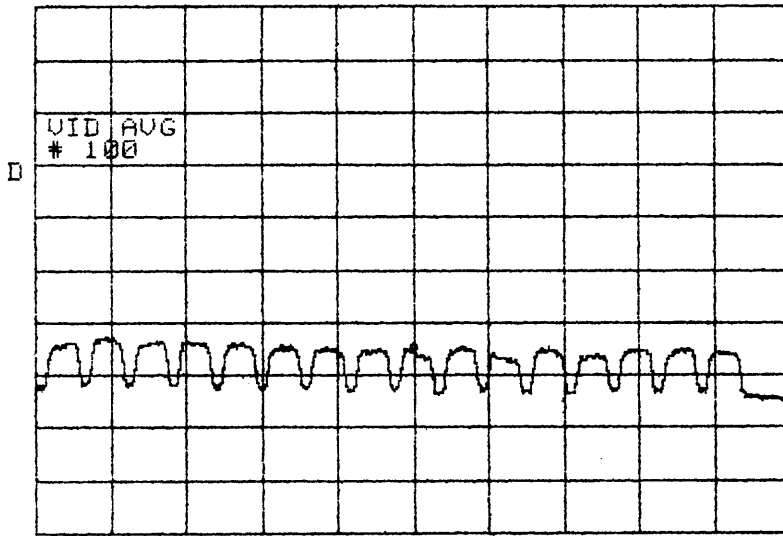
ATTEN 10dB VAUG 100 MKR -65.33dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

8A-A-1

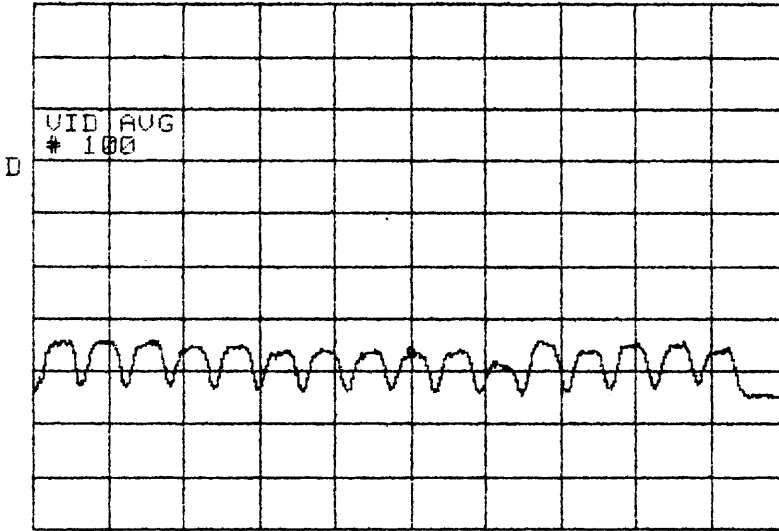
ATTEN 10dB VAUG 100 MKR -65.67dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

8A-A-2a

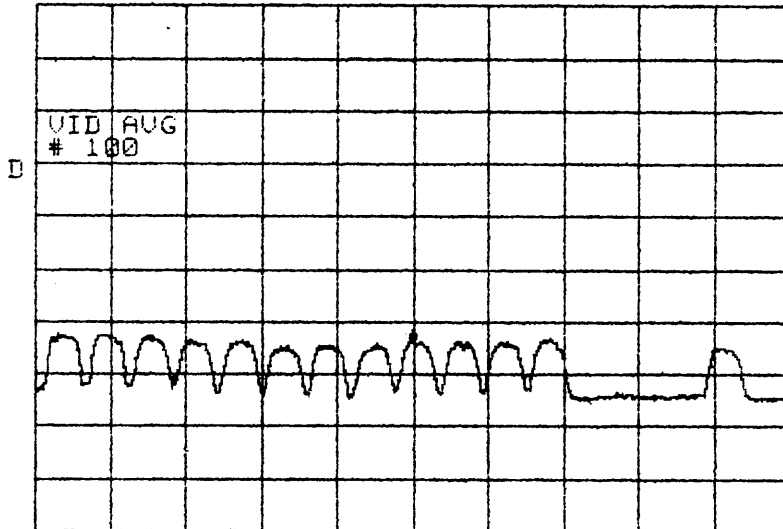
ATTEN 10dB UAUG 100 MKR -67.17dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

SA-A-26

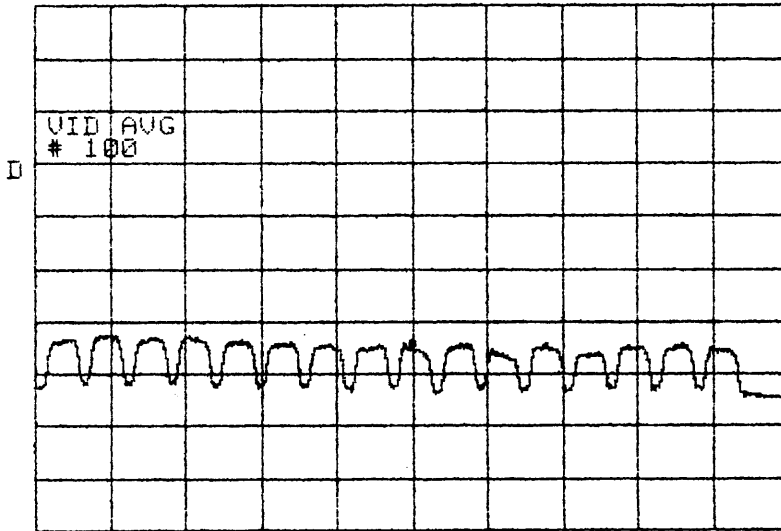
ATTEN 10dB VAUG 100 MKR -63.67dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

8A-A-2c

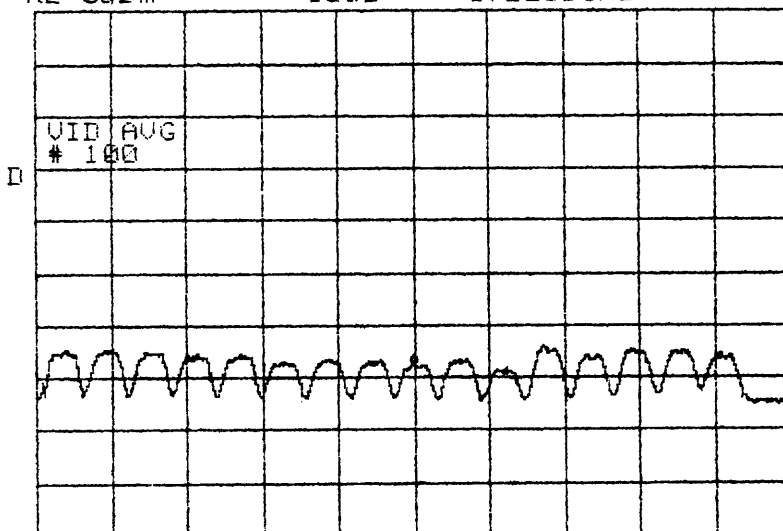
ATTEN 10dB UAVG 100 MKR -65.33dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

PA-A-3a

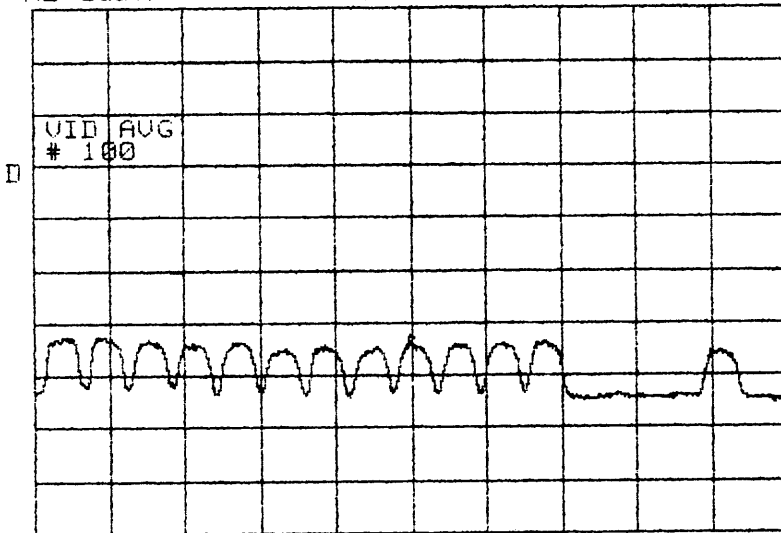
ATTEN 10dB VAVG 100 MKR -67.67dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

8A-A-36

ATTEN 10dB UAUG 100 MKR -64.17dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

SA-A-3c