

COMMENTS FROM SITE 5A

Site 5A South Joyce St. & Arme-y-Navy Drive #2 (Arlington, VA)

Date: August 10, 1999

Weather Conditions: Cloudy Sky; Dusk; Temp Low 70°'s

Comments: Building is partially blocking signal from Echostar (119).

Northpoint Technology - DBS Compatibility Test - Washington DC Area

Rx Site Data Log

Rx Site No.

5A

p1

Set:

1/1

Arrival

Re: Rx Condx Ref. No.

1

Date / Time:

8/10/99 19:10 EDT

Dep.
20.40

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 up - 25' AGL

Ant:

Power (Px)

-53.33dB

TV Pix

Plot ID

5A-1

File Rec

X

-54 @ 30 mps @ 8 mps

(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:

Power (Px)

-64.50dB

TV Pix

OK

Plot ID

5A-2b

File Rec

X

Sat 3

ES (61.5)

Ant:

Power (Px)

-66.00dB

TV Pix

OK

Plot ID

5A-2c

File Rec

X

Sat 4

ES (119)

Ant:

Power (Px)

-65.33dB

TV Pix

OK

Plot ID

5A-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)

-64.67dB

TV Pix

OK

Plot ID

5A-3b

File Rec

X

Sat 3

ES (61.5)

Ant:

Power (Px)

-68.17dB

TV Pix

OK

Plot ID

5A-3c

File Rec

X

Sat 4

ES (119)

Ant:

Power (Px)

-65.67dB

TV Pix

OK

Plot ID

5A-3d

File Rec

X

(4) NPTx OFF.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Rx Site No.

5A

p2

Set:

1/1/1

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-18	83	82	79	77	81	82	83	77	82	78	Avg:	80.4
Sat 3	T-18	75	75	75	74	76	74	76	74	74	75	Avg:	74.8
Sat 4	T-18	89	89	90	89	89	89	89	90	89	90	Avg:	89.3

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-18	81	82	84	81	83	83	77	83	76	80	Avg:	81.2
Sat 3	T-18	79	79	78	77	79	79	79	79	78	79	Avg:	78.6
Sat 4	T-18	91	91	91	91	91	91	91	91	91	92	Avg:	91.1

Legend // Comments:

NPTx – Northpoint Transmitter.

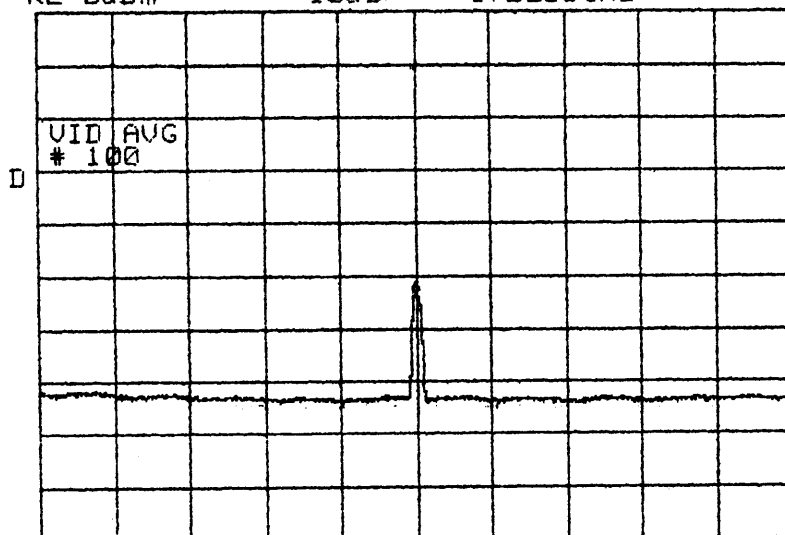
The building is partially blocking signal from ES(119).

8/10/99

Adura

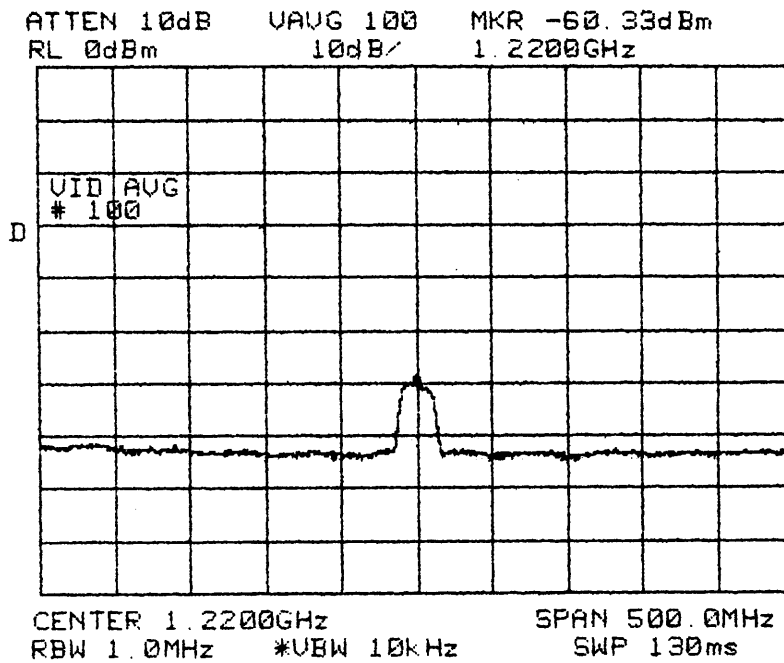
5A-1

ATTEN 10dB UAUG 100 MKR -53.33dBm
RL 0dBm 10dB/ 1.2200GHz



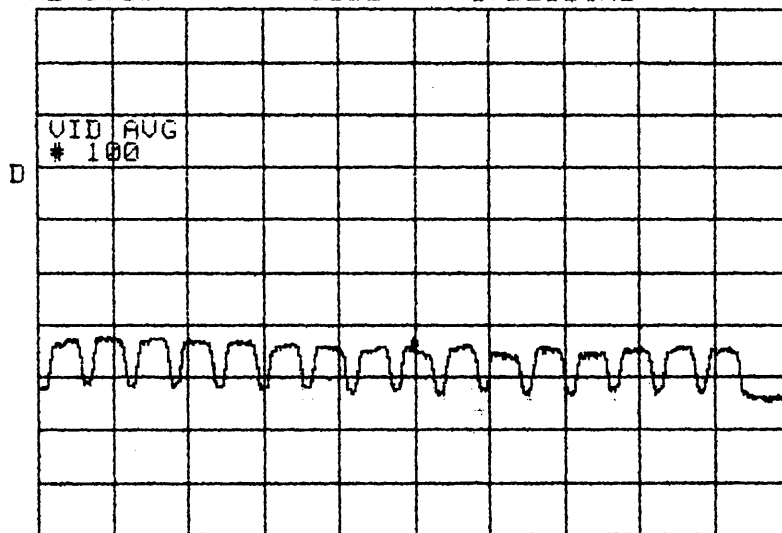
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

8/10/99
5A-1 Adwa
(at 30mb/s)



8/10/99
Adura
5A-26

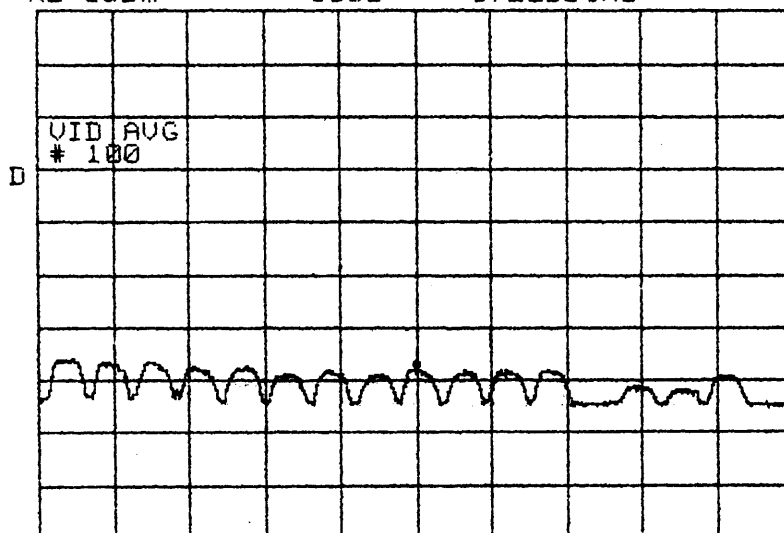
ATTEN 10dB UAUG 100 MKR -64.50dBm
RL 0dBm 10dB/ 1.2200GHz



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

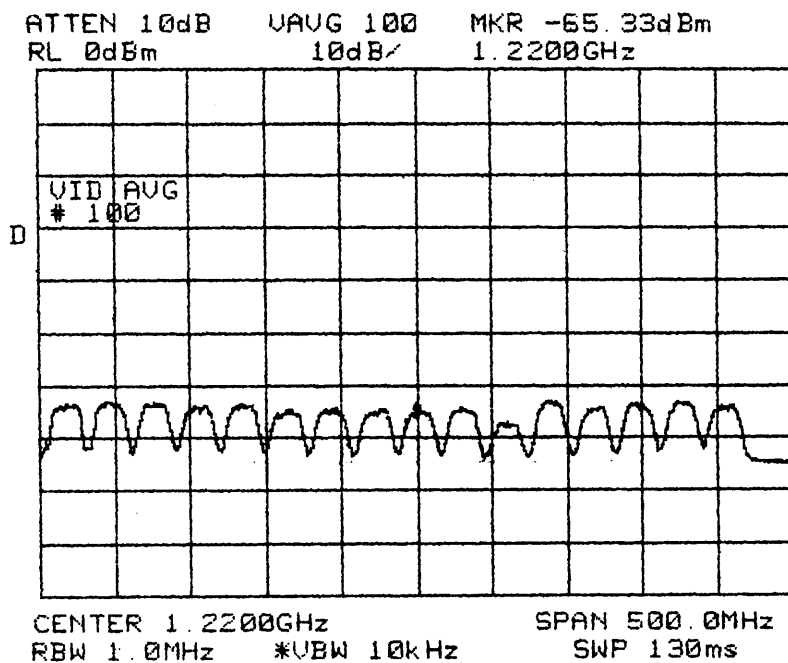
8/10/99
Adura
SA-2C

ATTEN 10dB VAUG 100 MKR -68.00dBm
RL 0dBm 10dB/ 1.2200GHz

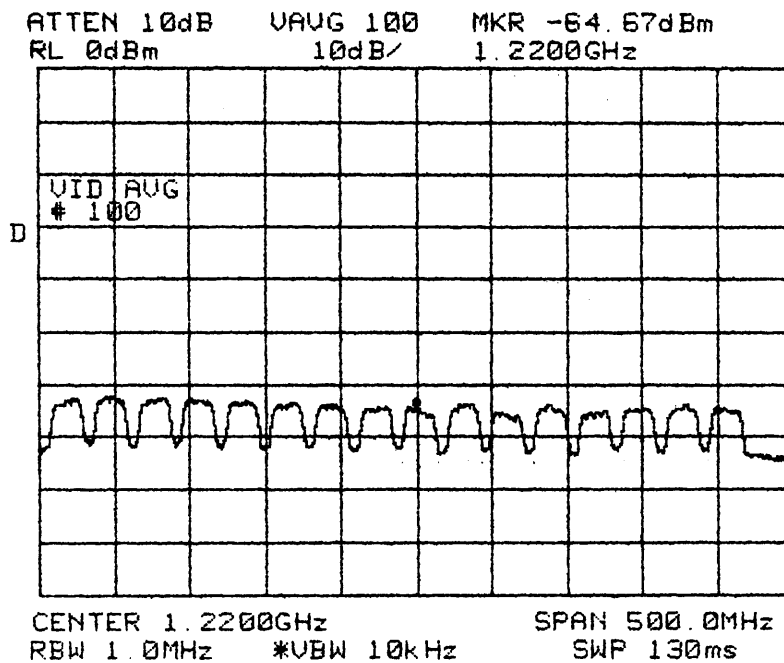


CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

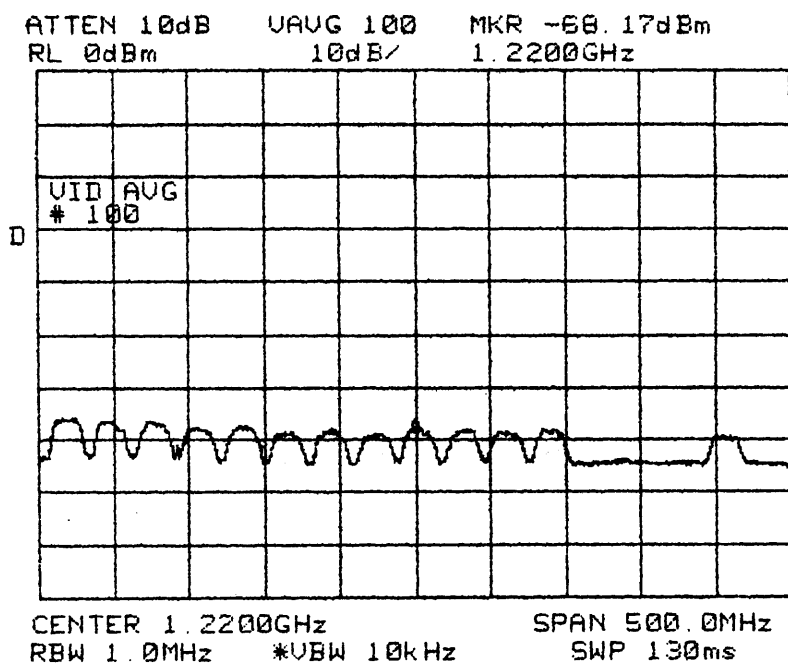
8/10/29
Adura
5A-2d



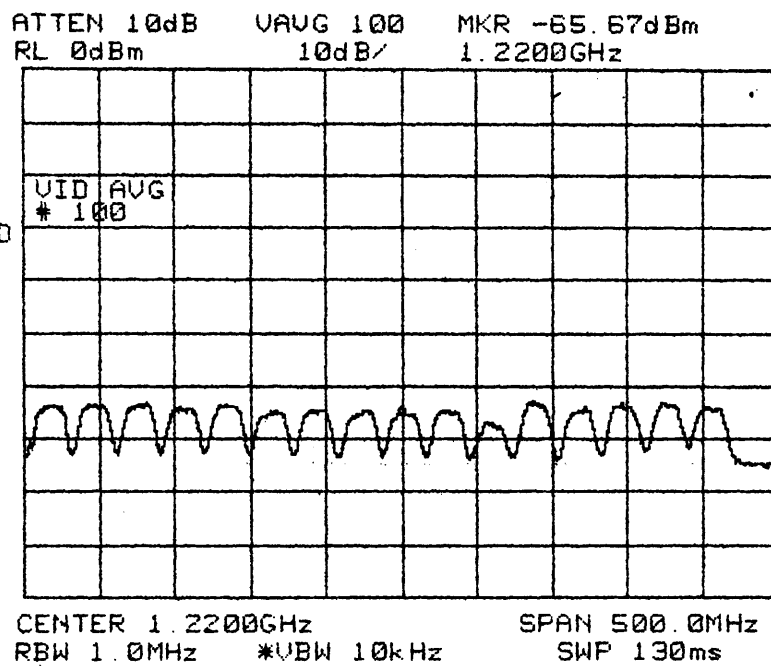
8/18/99 Adura
5A-36



8/10/99
Adura
5A-3C



8/10/99
Admrg
5A-3d



Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Location Log

Rx Site No.

5A

p1

Set:

1

Site Name:

Date / Time:

08/10/99 20:03 EDT

Location ②

South Joyce & Army Navy Dr. #2

Operator:

Akin

GPS Receiver Reading at Site:

Lat: N 38° 51.923'

Time Read 23:10:51 GMT EDT

Lon: W 077° 03.773'

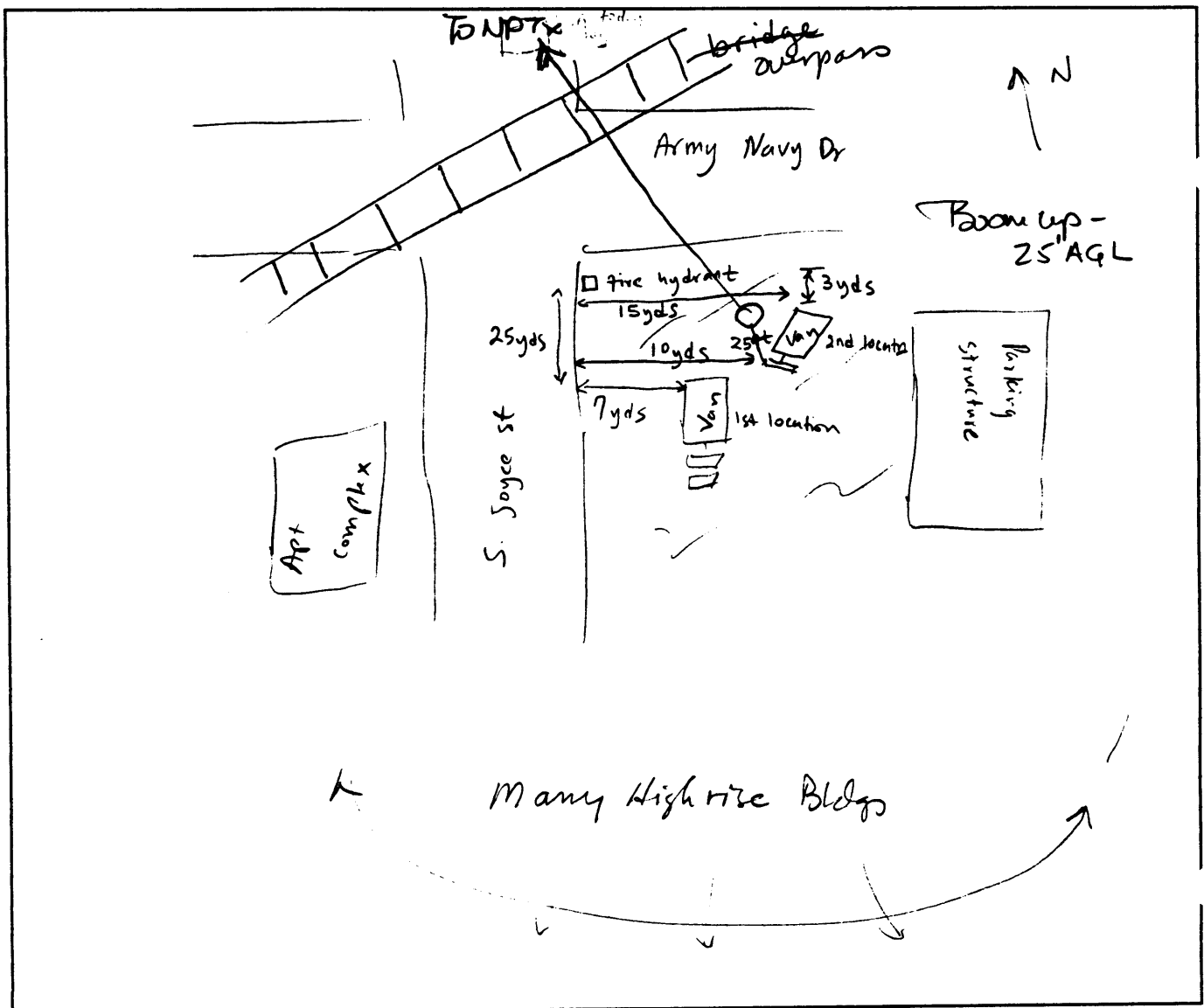
Elev: 129 Ft

Weather: temp: low 70's

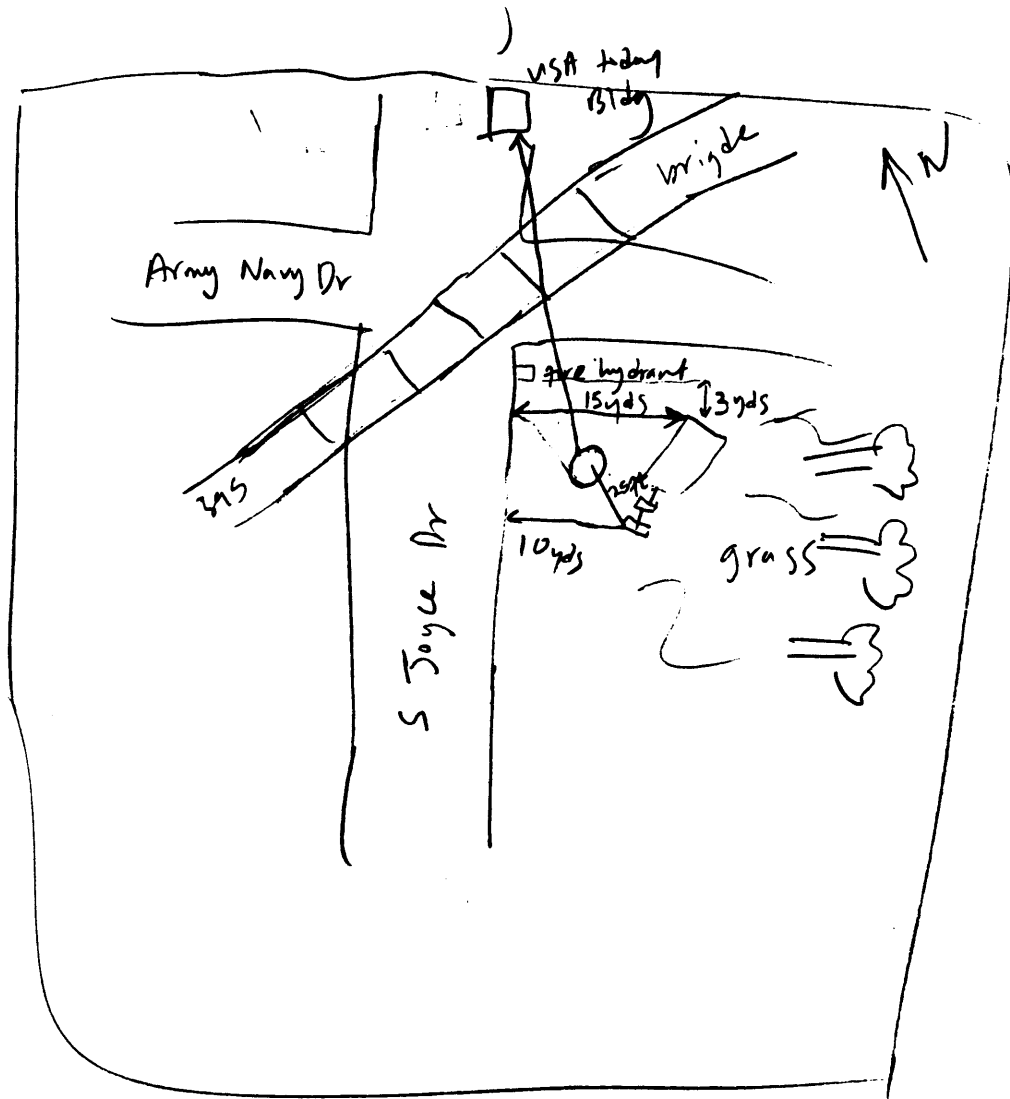
cloudy sky, getting dark

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

cannot see top of USA Tower Bldg -



time 20.00
temp: high 60's



COMMENTS FROM SITE 2A

Site 2A Arlington Ridge Road & Nash Street

Date: August 5, 1999

Weather Conditions: Overcast/Mist to Clear/Hazy

Comments: Reception of signal on Echostar (61.5) is affected by building blockage.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Arlington Ridge

Rx Site No.

2A

p1

Set:

1/1

Re: Rx Condx Ref. No.

1

Date / Time:

8/5/99 18:00 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:

DBS 1	Ant:	
Power (Px) -66.67dB	TV Pix	
Plot ID 2A-1	File Rec	X

-63.83dB boom up 20' agl-ant 2A-1a

(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 (101)	Ant: NP3
Power (Px) -65.00dB	TV Pix	
Plot ID 2A-2b	File Rec	X

Sat 3	ES (61.5)	Ant: NP2
Power (Px)	TV Pix	
Plot ID 2A-2c	File Rec	X

Blocked by building

Sat 4	ES (119)	Ant: NP4
Power (Px) -65.50dB	TV Pix	
Plot ID 2A-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 (101)	Ant: NP3
Power (Px) -64.50dB	TV Pix	OK
Plot ID 2A-3b	File Rec	X

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

Blocked by building

Sat 4	ES (119)	Ant: NP4
Power (Px) -66.33dB	TV Pix	OK
Plot ID 2A-3d	File Rec	X

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No.

24

p2

Set:

1

08/05/9

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-8	75	78	79	79	79	77	77	76	79	78	Avg:	77.7
Sat 3	T-											Avg:	
Sat 4	T-18	87	87	87	87	87	87	87	87	87	87	Avg:	87.0

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-18	81	80	81	75	80	80	79	78	81	79	Avg:	79.5
Sat 3	T-											Avg:	
Sat 4	T-18	86	87	85	86	87	87	86	87	86	86	Avg:	86.3

Legend // Comments:

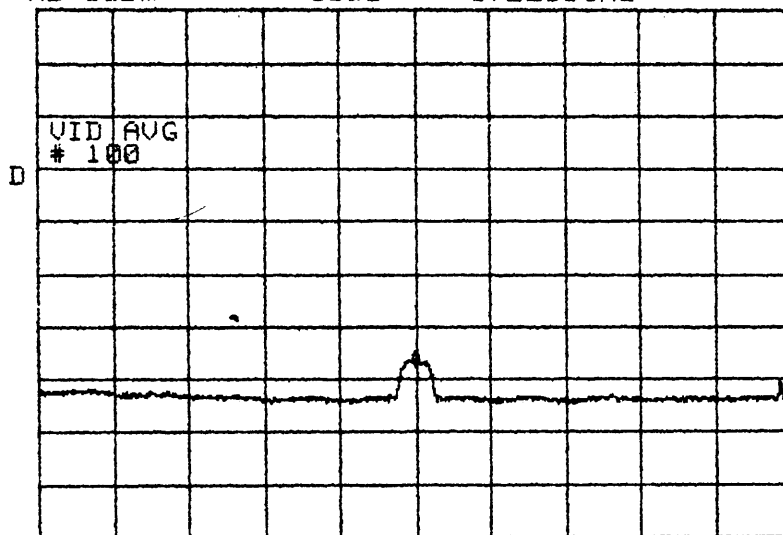
NPTx – Northpoint Transmitter.

rkura

8/5/99

2A-1

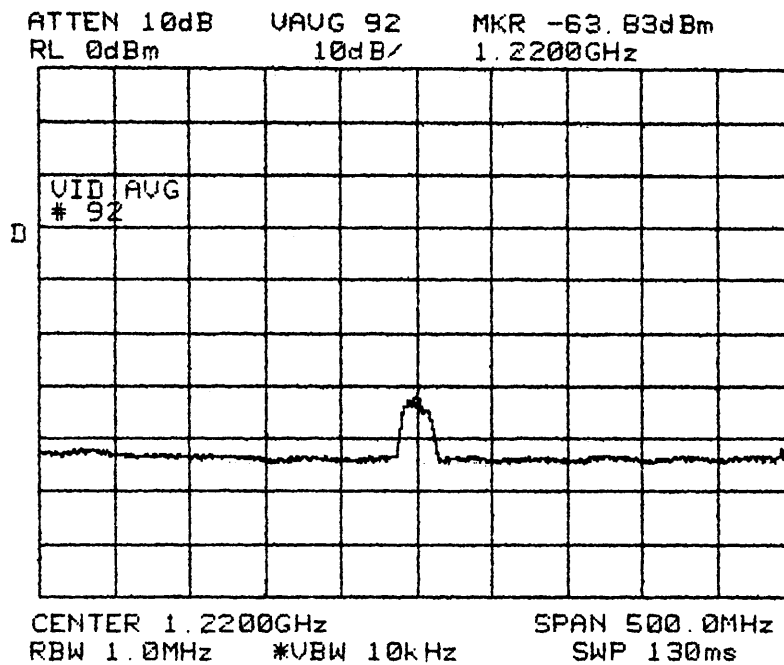
ATTEN 10dB VAVG 100 MKR -66.67dBm
RL 0dBm 10dB/ 1.2200GHz



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

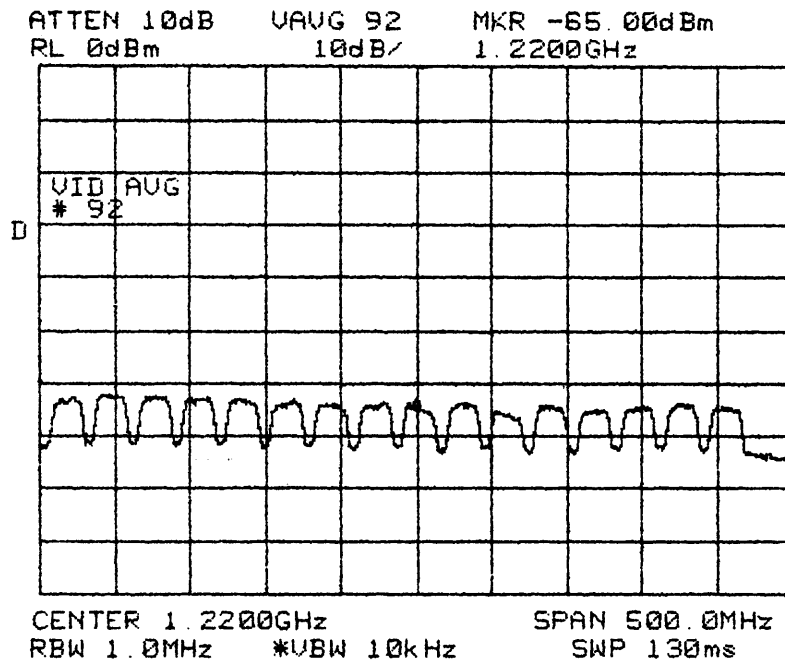
Adura
08/05/99

24-19



Adura
8/5/99

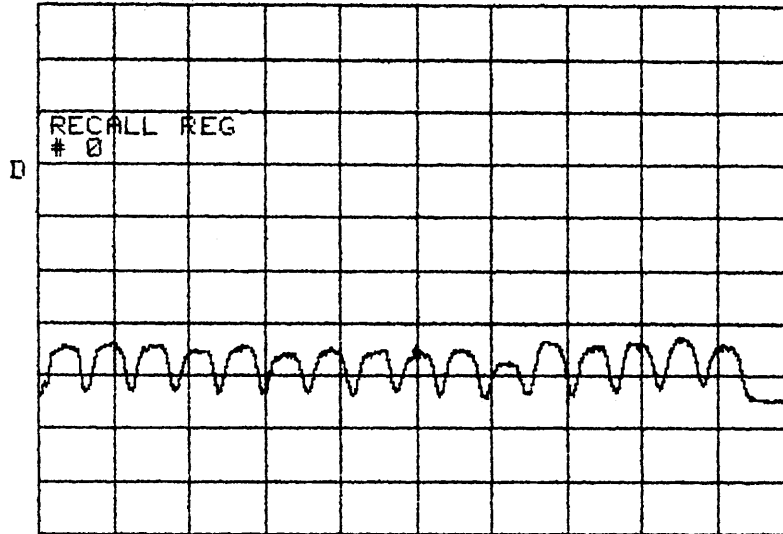
24-20



8/5/99 Adura

2A-3d

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.

2A

p1

Set:

1/

Site Name:

Date / Time:

8/5/99 ~ 5:30 EDT

Arlington Ridge & Nash

Operator:

Dan / Stacy

GPS Receiver Reading at Site:

Lat: N 38° 51.856'

Time Read 0042 ~~GMT~~ ~~EDT~~

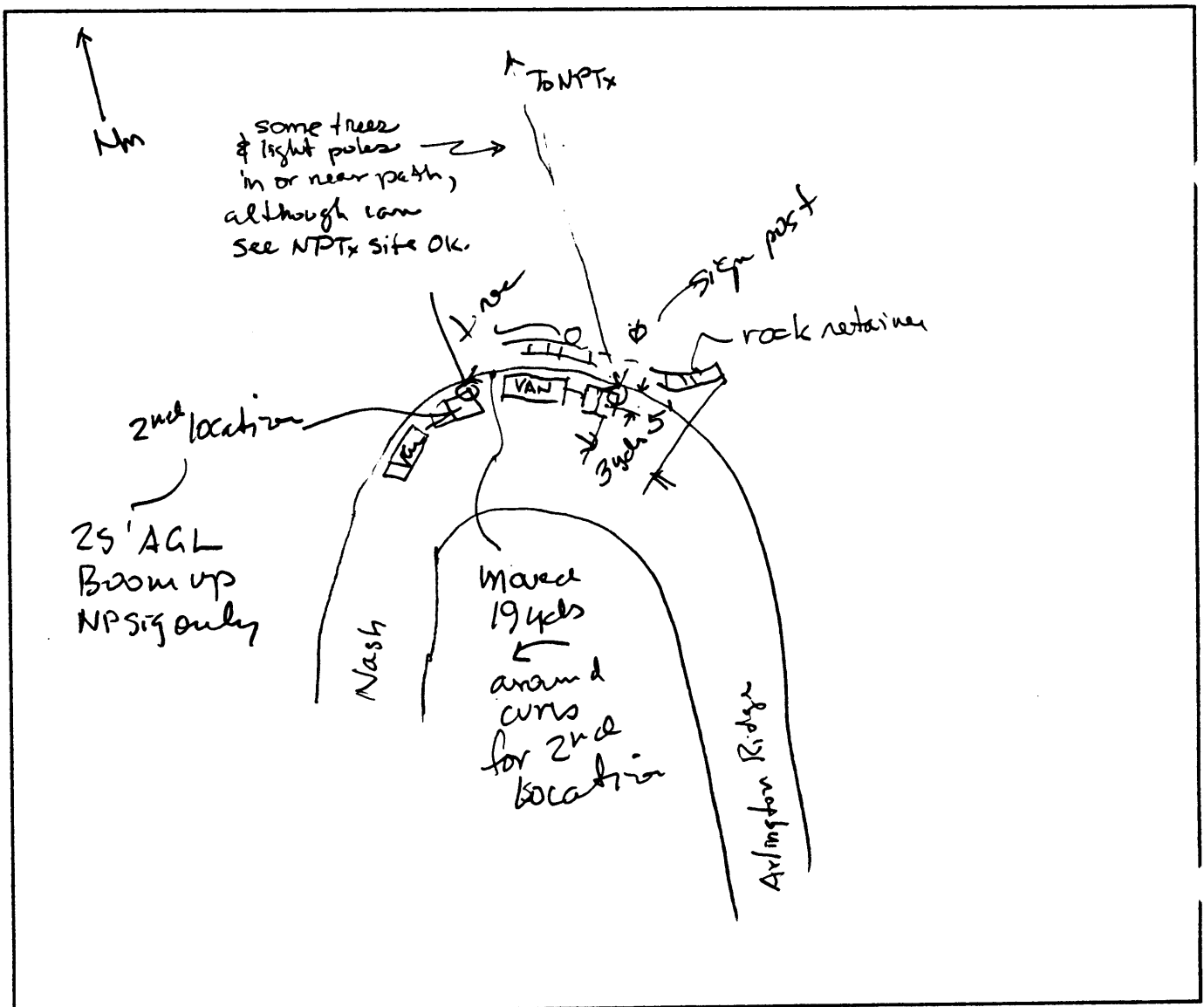
Lon: W 077° 03.950'

Elev: 365' not reliable -

Weather: went from
overcast/mist
to clear/hazy

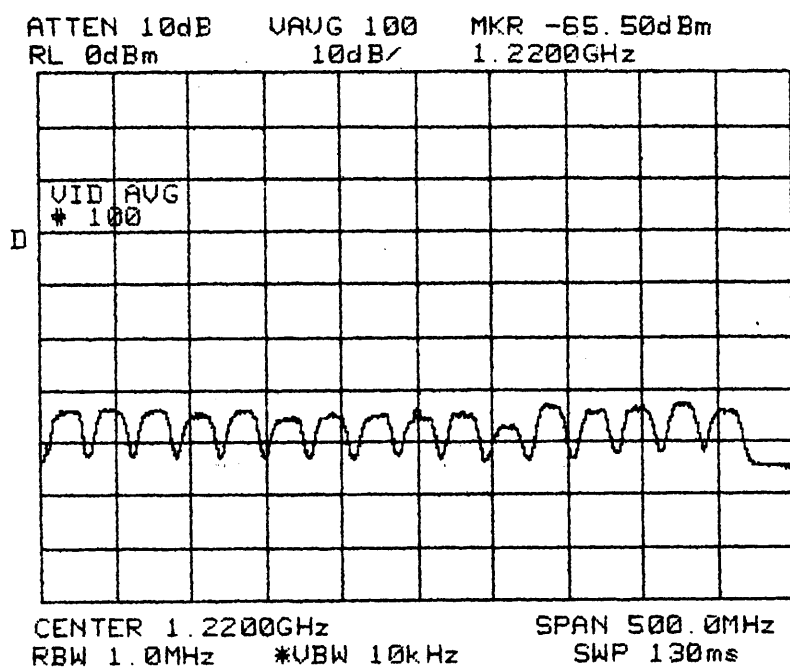
Map Sketch (show street reference and local benchmark features):

Boom Down 5' AGL

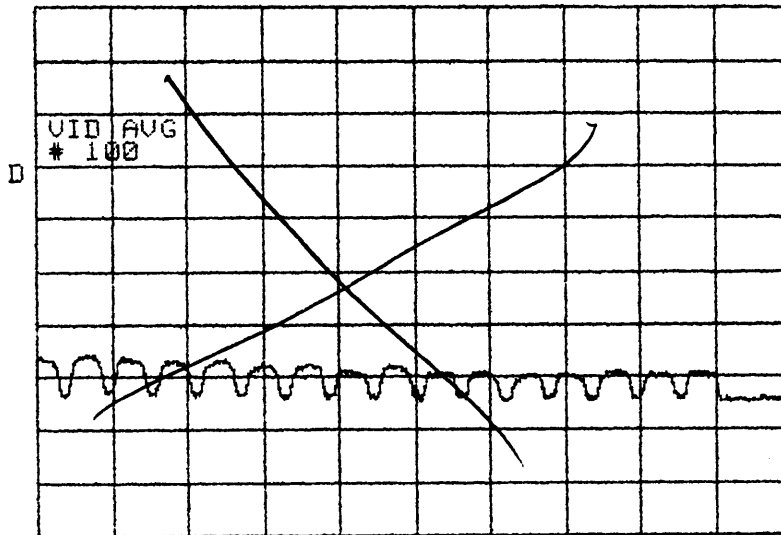


Holmes
8/5/99

25-2-99



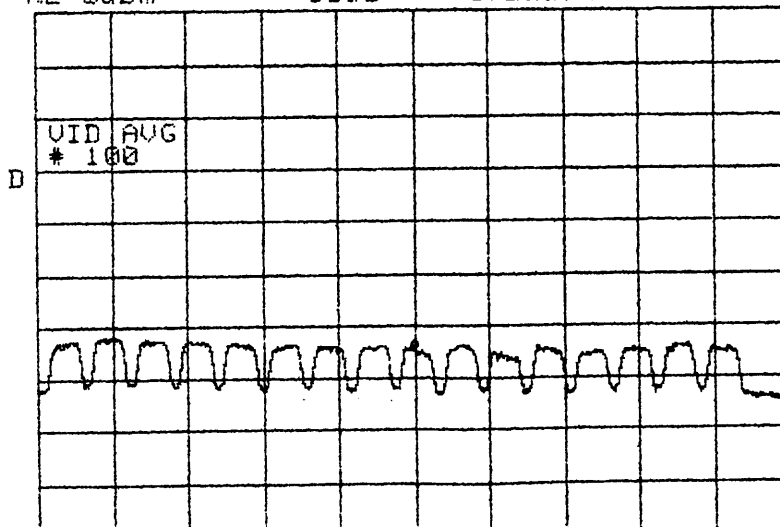
ATTEN 10dB UAWG 100 MKR -74.00dBm
RL 0dBm 10dB/ 1.2200GHz



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

Adwa
08/05/19
27-28

ATTEN 10dB UAWG 100 MKR -64.50dBm
RL 0dBm 10dB/ 1.2200GHz



COMMENTS FROM SITE 4A

Site 4A S. Joyce St. & Army-Navy Drive (Arlington, VA)

Date: August 10, 1999

Weather Conditions: Cloudy Sky; Temp Mid 70°'s

Comments: Scanned for reflections – none found.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

S. Joyce & Army-Navy

Rx Site No.

4A

p1

Set:

111

Re: Rx Condx Ref. No.

1

Date / Time:

8/10/99 18:15 EDT

Departure 19.01

Re: Tx Condx Ref. No.

1

Operator:

Adura

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename

X

(1) NP Signal – NPTx ON:

No signal detected

Ant:			
Power (Px)		TV Pix	
Plot ID		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	X

Sat 2	DTV	Ant:	
Power (Px)	-65.83dB	TV Pix	
Plot ID	4A-2b	File Rec	X

Sat 3	ES (61.5)	Ant:	
Power (Px)	-64.83dB	TV Pix	
Plot ID	4A-2C	File Rec	X

Sat 4	ES (119)	Ant:	
Power (Px)	-65.67dB	TV Pix	
Plot ID	4A-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	

Sat 2	DTV	Ant:	
Power (Px)	-66.33dB	TV Pix	
Plot ID	4A-3b	File Rec	X

Sat 3	ES (61.5)	Ant:	
Power (Px)	-65.50dB	TV Pix	OK
Plot ID	4A-3C	File Rec	X

Sat 4	ES (119)	Ant:	
Power (Px)	-65.83dB	TV Pix	OK
Plot ID	4A-3d	File Rec	X

(4) NPTx OFF.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Rx Site No.

4A

p2

Set:

/ /

Signal Strength Pointer (ssp) Data --

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-18	74	76	74	75	76	75	74	79	76	75	Avg:	75.4
Sat 3	T-18	92	93	92	93	92	93	93	92	92	93	Avg:	92.5
Sat 4	T-18	89	89	89	89	89	89	89	89	89	89	Avg:	89.0

(3a) NPTx ON:

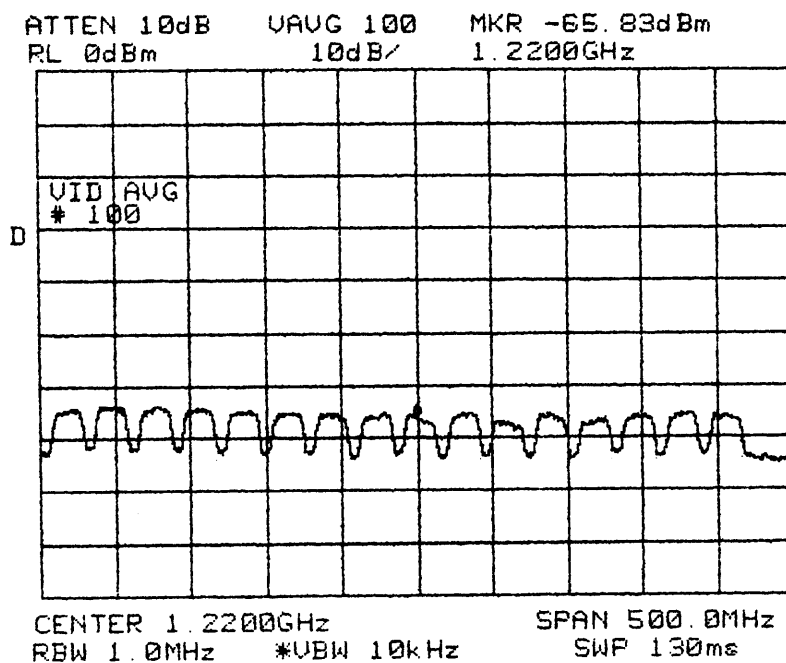
Sat 1	T-											Avg:	
Sat 2	T-18	75	79	76	79	76	74	73	75	77	75	Avg:	75.9
Sat 3	T-18	93	93	93	92	93	93	93	92	93	93	Avg:	92.8
Sat 4	T-18	89	89	89	89	89	89	89	89	89	89	Avg:	89.0

Legend // Comments:

NPTx – Northpoint Transmitter.

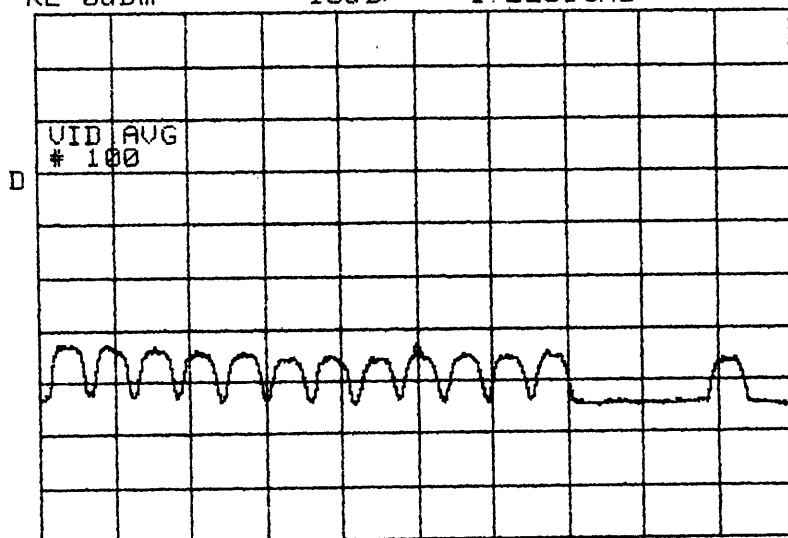
Scanned for reflections – none found

Adur
8/10/99
4A-26



8/10/99
Adura
4A-2C

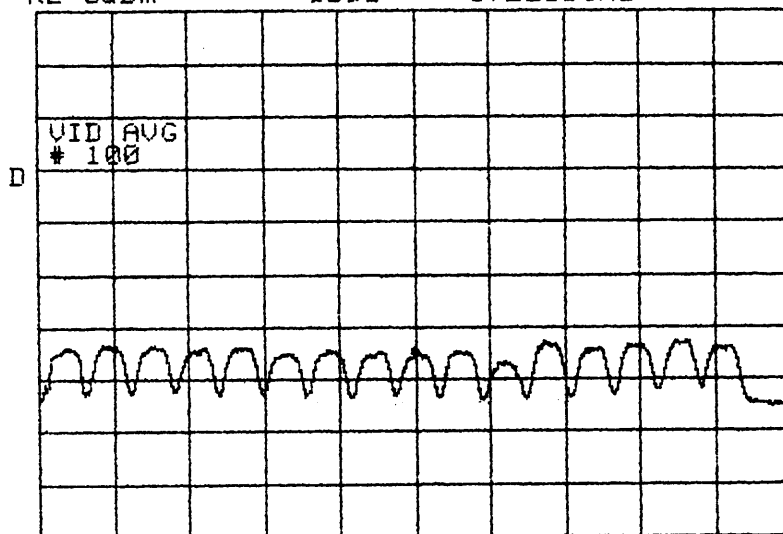
ATTEN 10dB UAUG 100 MKR -64.83dBm
RL 0dBm 10dB/ 1.2200GHz



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

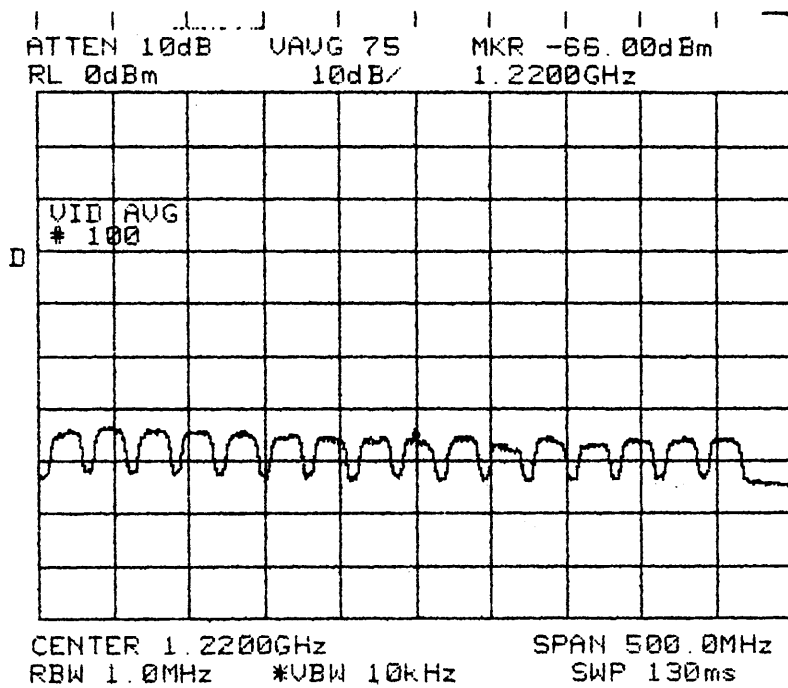
8/10/99
Adura
4A-20

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



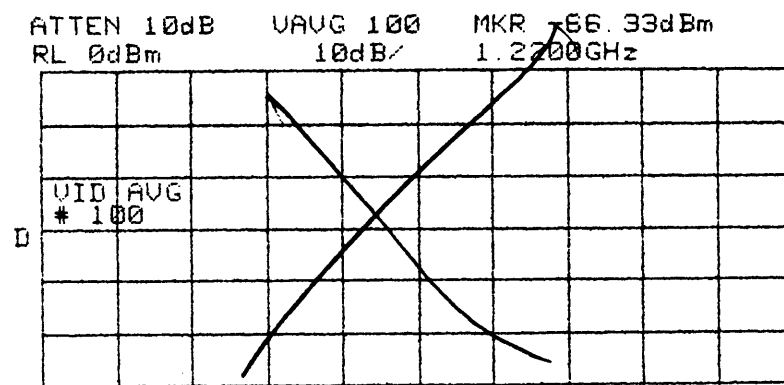
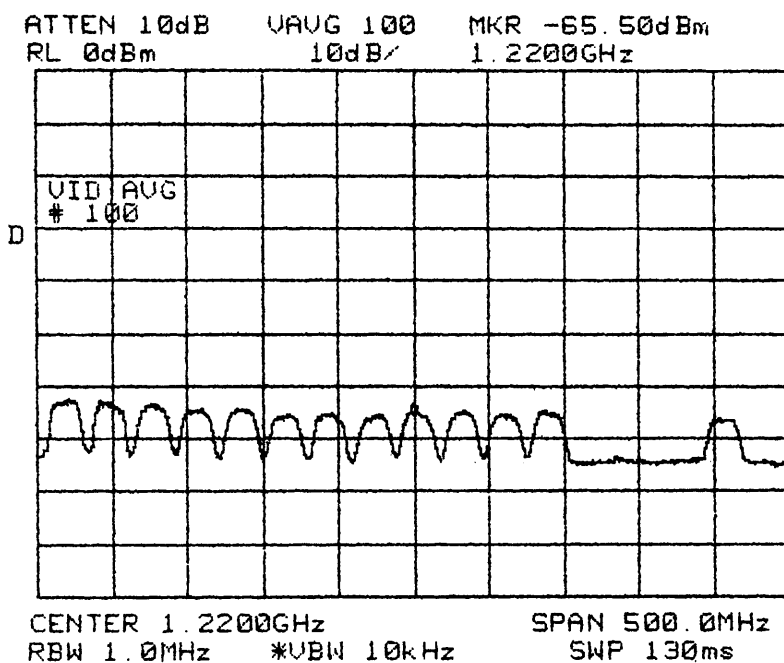
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

8/10/99
4A-36



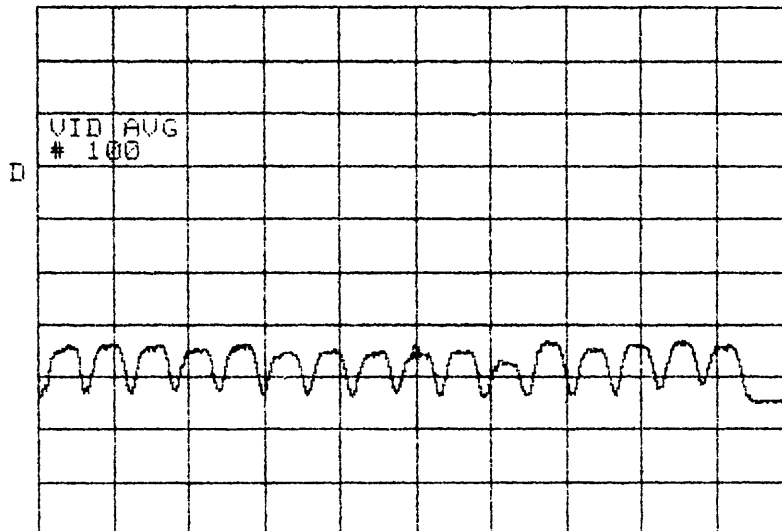
Acura
8/10/99

4A-3C



4A-3 d
8/10/99
Adura.

ATTEN 10dB VAWG 100 MKR -65.83dBm
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.

4A

pl

Set:

1/

Site Name:

Date / Time:

08 / 10 / 99 18:47 EDT

S Joyce & Army Navy Dr.

Operator:

Akin

GPS Receiver Reading at Site:

Lat: $N 38^{\circ} 51.881'$

Time Read 22:38:59 ^{GMT} ~~EDT~~

Lon: $W 107^{\circ} 03.807'$

Elev: 93 Ft

Weather: temp: Mid 70's
cloudy sky;

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

