

Progress Report

WA2XMY

Northpoint – DBS Compatibility Tests

Washington, D.C.

October, 1999

VOLUME II

FIELD NOTES

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COMMENTS FROM SITE 11A

Site 11A London House Rooftop

Date: August 13, 1999

Weather Conditions: Cloudy/Hazy; Temp 90°

Comments: Echostar is partially blocked by tall buildings. Did 360° span – no reflections from all sides.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

LONDON HOUSE
Roof Top

Rx Site No. 11A
Set: 111

p1

Re: Rx Condx Ref. No.

1x

Date / Time:

8/13/97 11:05 EDT

Re: Tx Condx Ref. No.

1x

Operator:

Dany/Adura
Carneo & Chula

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename X

Note 25' LB cable

(1) NP Signal – NPTx ON:

NP	Ant: NPI		
Power (Px) <u>-74.00dB</u>	TV Pix	Plot ID <u>11A-1</u>	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	<u>DTV</u> ← <u>Signal not found</u>	Ant: NPI			
Power (Px)		TV Pix		Plot ID	File Rec
Sat 3	<u>ES (61.5)</u>	Ant: NPI			
Power (Px) <u>-63.67dB</u>	TV Pix	Plot ID <u>11A-2C</u>	File Rec	<u>X</u>	
Sat 4	<u>ES (119)</u>	Ant: NPI			
Power (Px) <u>-63.67dB</u>	TV Pix	Plot ID <u>11A-2d</u>	File Rec	<u>X</u>	

Blocked by USA Today Bldg.

(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	<u>DTV</u> ← <u>Signal not found</u>	Ant:			
Power (Px)		TV Pix		Plot ID	File Rec
Sat 3	<u>ES (61.5)</u>	Ant: NPI			
Power (Px) <u>-63.33dB</u>	TV Pix	Plot ID <u>11A-3C</u>	File Rec	<u>X</u>	
Sat 4	<u>ES (119)</u>	Ant: NPI			
Power (Px) <u>-63.50dB</u>	TV Pix	Plot ID <u>11A-3d</u>	File Rec	<u>X</u>	

(4) NPTx OFF.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Rx Site No.

11 A

p2

Set:

1 /

Signal Strength Pointer (ssp) Data --

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 1	T-											Avg:	
Sat 3	T-18	90	90	90	90	90	90	91	90	91	91	Avg:	90.3
Sat 4	T-18	87	86	86	87	86	86	86	87	86	87	Avg:	86.4

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 1	T-											Avg:	
Sat 3	T-18	92	93	92	93	92	92	92	93	92	93	Avg:	92.4
Sat 4	T-18	86	86	87	86	87	87	86	86	86	87	Avg:	86.4

Legend // Comments:

NPTx – Northpoint Transmitter.

Note: Cloudy Weather
ES(119) is partially blocked by
tall buildings a

Lat. 38 53.672

Long. 77 04.134

alt 200

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site 3D Pattern Log

LONDON HOUSE

Rx Site No.

11A

Set:

1/1/1

Re: Rx Condx Ref. No.

1X

Date / Time:

8/13/99 12:42 EDT

Re: Tx Condx Ref. No.

1X

Operator:

Jared / Ashura
Carmen & Chrissa

Rx Test Set received signal pattern vs Azimuth and Elevation angles (Degrees).

	Elev.→	0	15	30	45	60	75	90	
Azim.									
0									
15									
30									
45									
60									
75									
90									
105									
120									
135									
150									
165									
180									
195									
210									
225									
240									
255									
270									
285									
300									
315									
330									
345									
360									

Reflections from all sides
(360° Span)

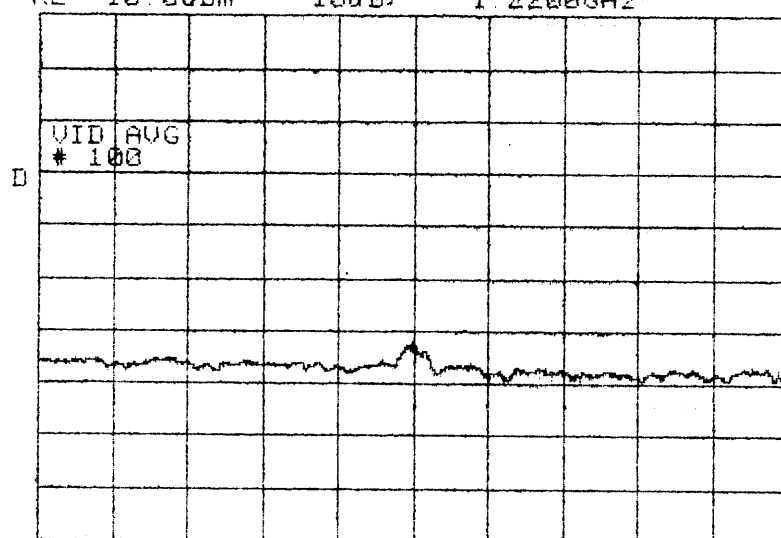
Note: In most cases, a slow sweep will be done with the Precision Horn antenna while monitoring the signal with the Spectrum Analyzer, and anomalous signals of interest will be detailed in the related zone.

8/13/99

11A-1

Adur

*ATTEN 0dB UAUG 100 MKR -74.00dBm
RL -10.00dBm 10dB/ 1.2200GHz

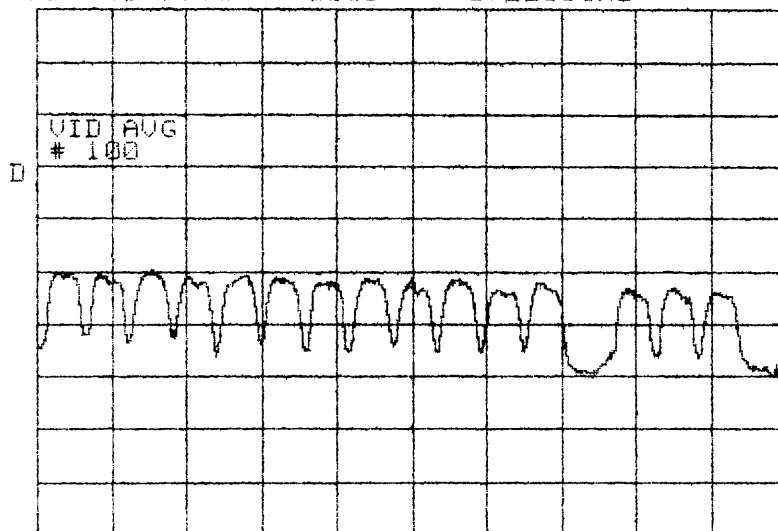


CENTER 1.2200GHz SPAN 500.0MHz
*RBW 1.0MHz *UBW 10kHz *SWP 200ms

8/13/99

11A-2C Ad

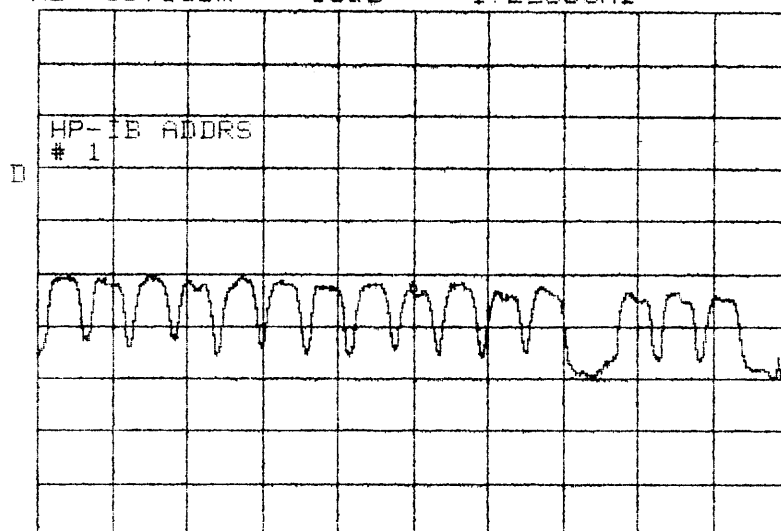
*ATTEN 0dB UAUG 100 MKR -63.33dBm
RL -10.0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
*RBW 1.0MHz *VBW 10kHz *SWP 200ms

11A-3C
8/13/99 +dwrc

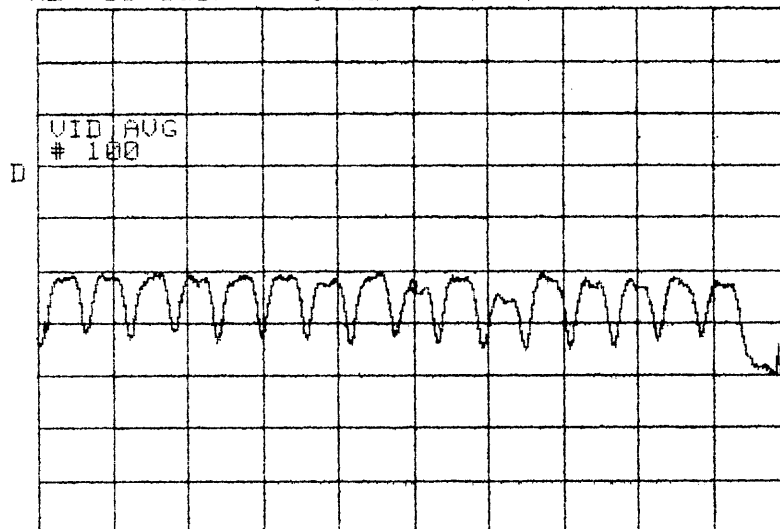
*ATTEN 0dB VAUG 100 MKR -63.67dBm
RL -10.0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
*RBW 1.0MHz *VBW 10kHz *SWP 200ms

8/11/99
11A-2d Adura.

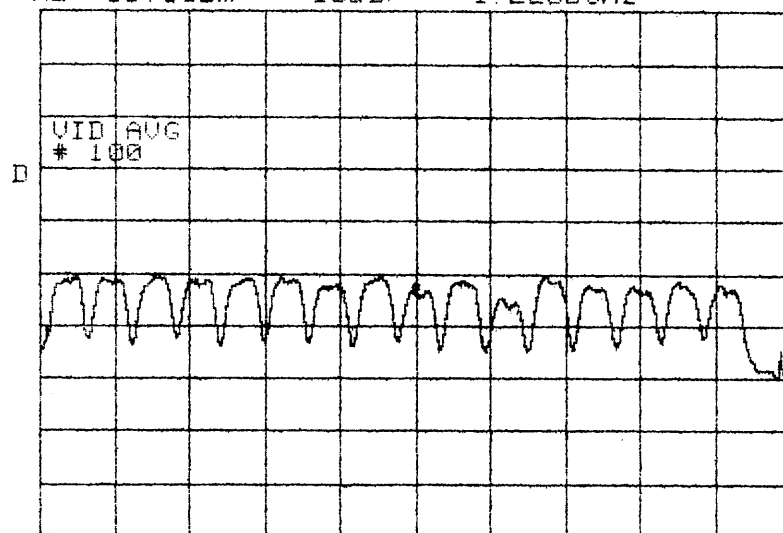
*ATTEN 0dB VAUG 100 MKR -63.67dBm
RL -10.0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
*RBW 1.0MHz *VBW 10kHz *SWP 280ms

11A-3a
8/13/99

*ATTEN 0dB VAUG 43 MKR -63.50dBm
RL -10.0dBm 10dB/ 1.2200GHz
*ATTEN 0dB VAUG 100 MKR -63.50dBm
RL -10.0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
*RBW 1.0MHz *VBW 10kHz *SWP 200ms

Northpoint Technology - DBS Compatibility Test - Washington DC Area

Rx Site Location Log

Rx Site No.

11A

p1

Set:

1/1

Site Name:

Date / Time:

8/13/99 12:57 EDT

end of site

London House Roof Top

Operator:

DLW

GPS Receiver Reading at Site:

Lat: N 38 53.672

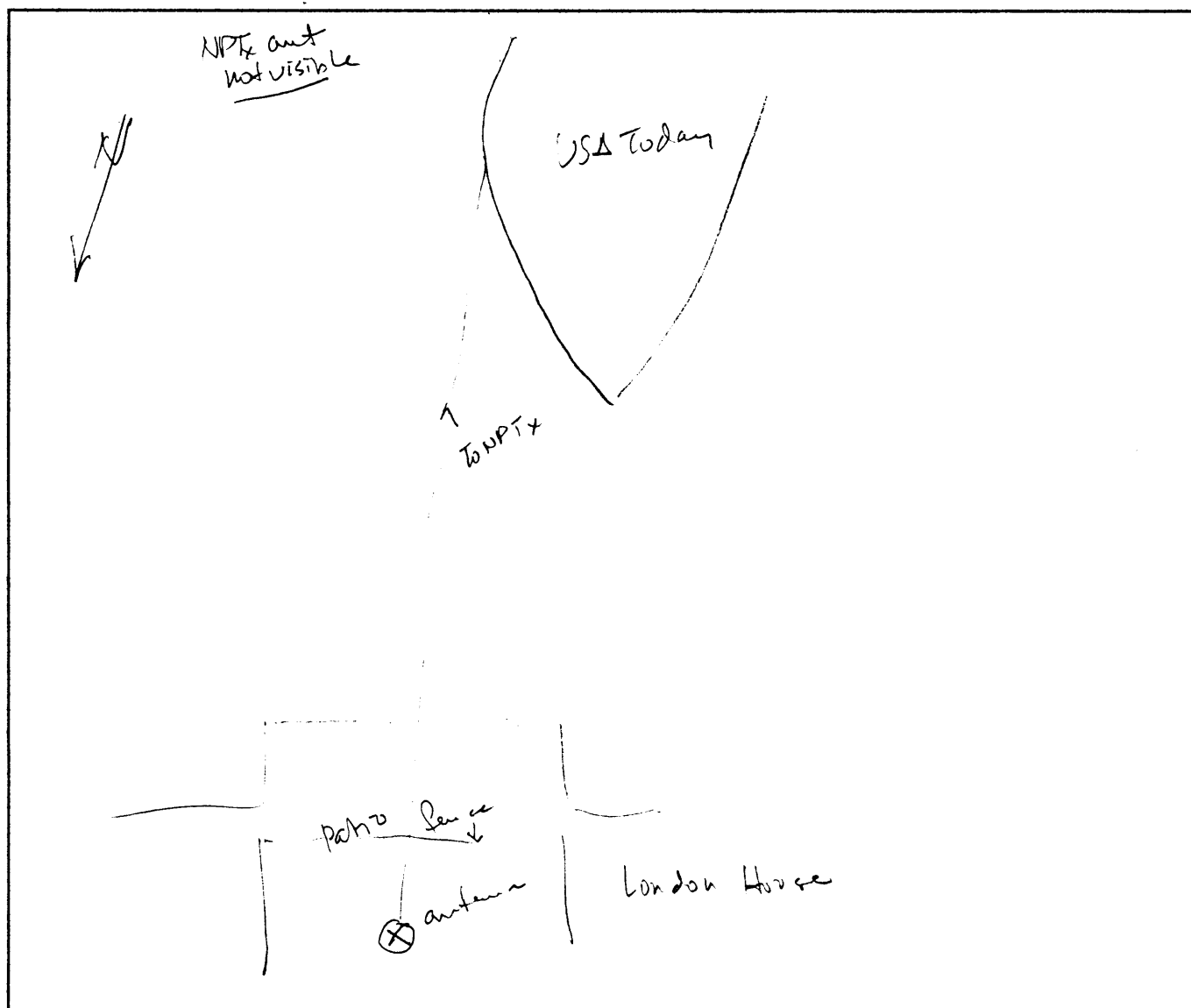
Time Read 12:15 EDT

Lon: W 077 04.134

Elev: 200'

WX: Cloudy/Hazy
~ 90°F

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



COMMENTS FROM SITE 1

Site 1 River Place Apartments

Date: August 4, 1999

Weather Conditions: Clear/hazy sky; Temp 90°

Comments: Fluctuation in signal possibly due to scattered clouds or passing auto traffic on highway.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

River Place Apts.

Rx Site No. 1
Set: 1/1

p1

Re: Rx Condx Ref. No.

1

Date / Time:

8/4/99 17:04 EDT

Re: Tx Condx Ref. No.

1

Operator:

Jonathan Adura

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename X

(1) NP Signal – NPTx ON:

		Ant: DBS1	<u>Cable 1</u>
Power (Px)	<u>-56.17dB</u>	TV Pix	
Plot ID	<u>1-1</u>	File Rec	<u>X</u>

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

Sat 1	<u>110</u>	Ant:	
Power (Px)		TV Pix	
Plot ID		File Rec	<u>X</u>

Sat 2	<u>DTV (101)</u>	Ant: NP3	
Power (Px)	<u>-64.32dB</u>	TV Pix	
Plot ID	<u>1-2b</u>	File Rec	<u>X</u>

Sat 3	<u>ES (119)</u>	Ant: NP2	
Power (Px)	<u>-65.67dB</u>	TV Pix	
Plot ID	<u>1-2c</u>	File Rec	

Sat 4	<u>ES (61.5)</u>	Ant: NP4	
Power (Px)	<u>-64.67dB</u>	TV Pix	
Plot ID	<u>1-2d</u>	File Rec	<u>X</u>

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

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

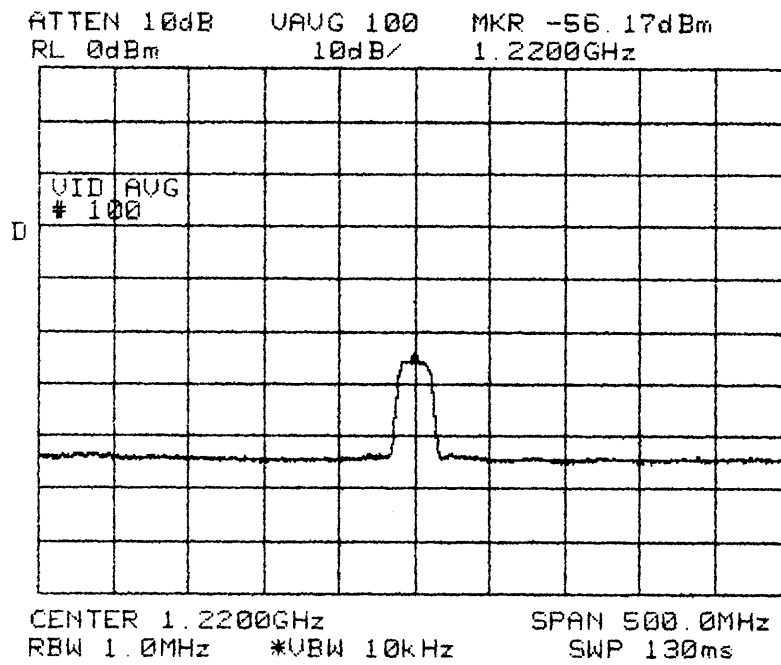
Sat 2	<u>DTV (101)</u>	Ant: NP3	
Power (Px)	<u>-64.17dB</u>	TV Pix	
Plot ID	<u>1-3b</u>	File Rec	

Sat 3	<u>ES (119)</u>	Ant:	
Power (Px)	<u>-65.50dB</u>	TV Pix	
Plot ID	<u>1-3c</u>	File Rec	

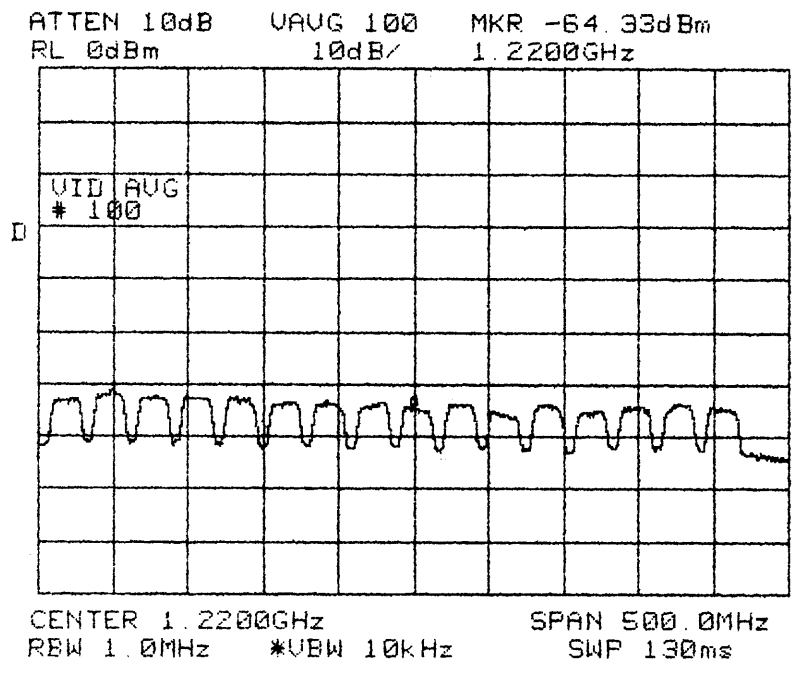
Sat 4	<u>ES (61.5)</u>	Ant:	
Power (Px)	<u>-65.17dB</u>	TV Pix	
Plot ID	<u>1-3d</u>	File Rec	

(4) NPTx OFF.

8/4/99 Jm / Alva
I-1



8/4/99 Dr / Adura
7-2 b



Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Rx Site No.

/

p2

Set:

/ /

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-18											Avg:	
Sat 2	T-18	87	86	86	87	87	87	88	88	90	88	Avg:	87.4
Sat 3	T-18	89	89	88	89	89	89	89	89	89	89	Avg:	88.9
Sat 4	T-18	99	99	98	98	98	98	99	99	99	99	Avg:	98.6

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-18	85	82	87	85	83	85	84	86	85	85	Avg:	84.7
Sat 3	T-18	87	87	87	89	88	88	88	88	87	87	Avg:	87.6
Sat 4	T-18	98	98	98	98	98	98	98	98	98	98	Avg:	98.0

Legend // Comments:

NPTx – Northpoint Transmitter.

The readings were affected by Scattered clouds.

Note – we are not really sure of this –
there is apparent fluctuation in sig due to passing
auto traffic on Hwy.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Location Log

Rx Site No.

1

p1

Set:

1 /

Site Name:

Date / Time:

08/04/99 5:45p EDT

River Place Apt.

Operator:

Akin Falodun

GPS Receiver Reading at Site:

8/16/99

Time Read 1510 EDT

Lat:

N 38° 53.519'

done after the fact

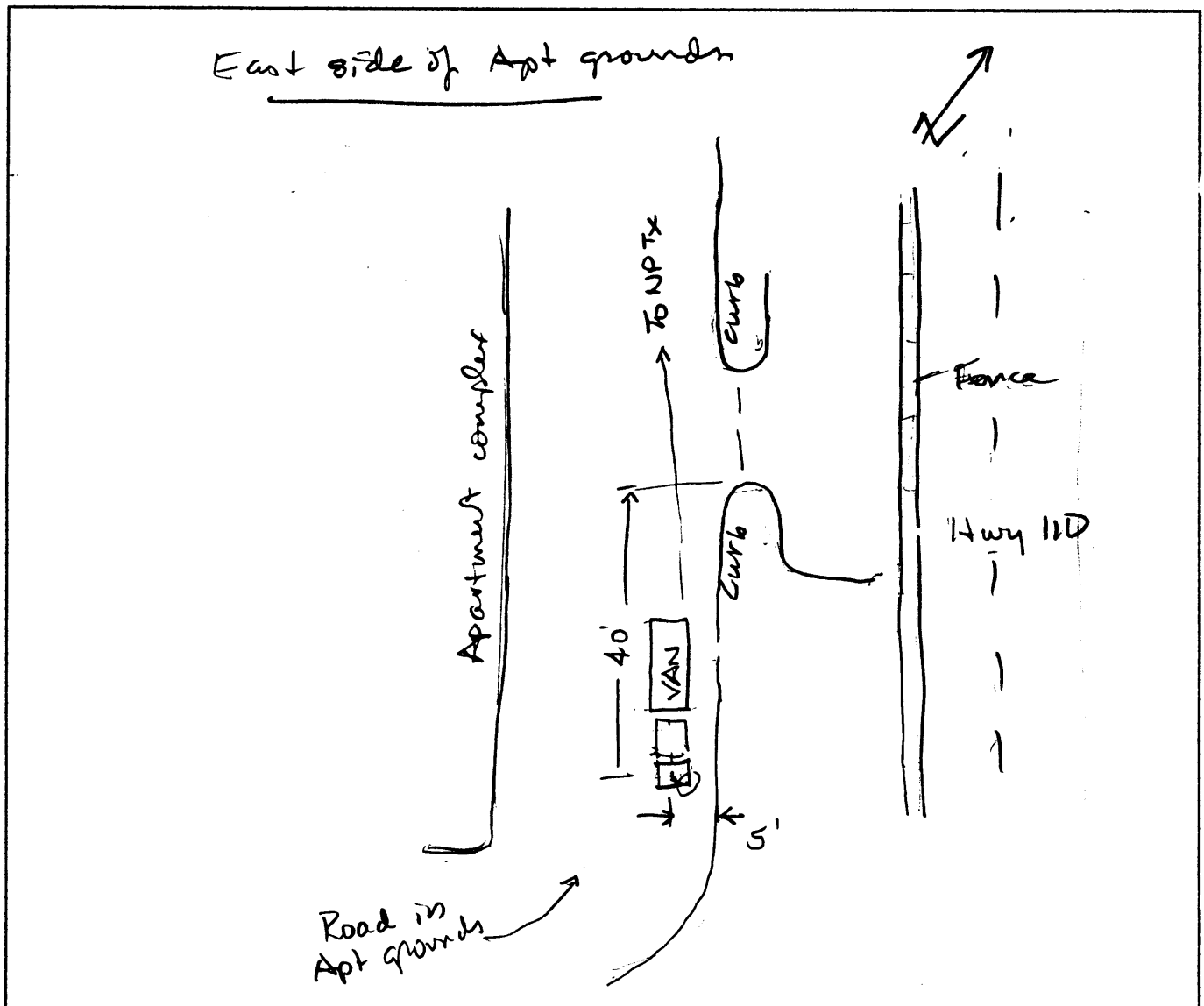
Lon:

W 077 04.078'

Elev:

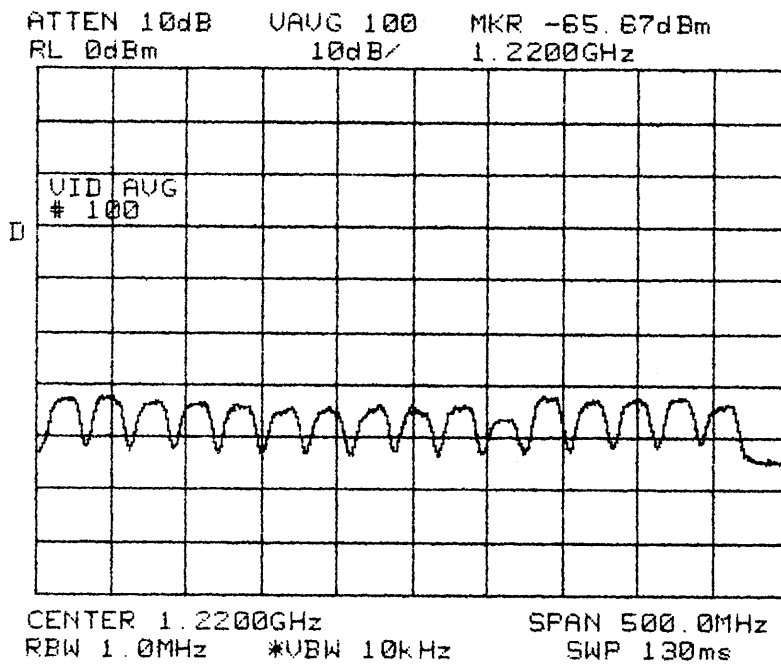
clear/hazy sky
Temp ~ 90°F

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

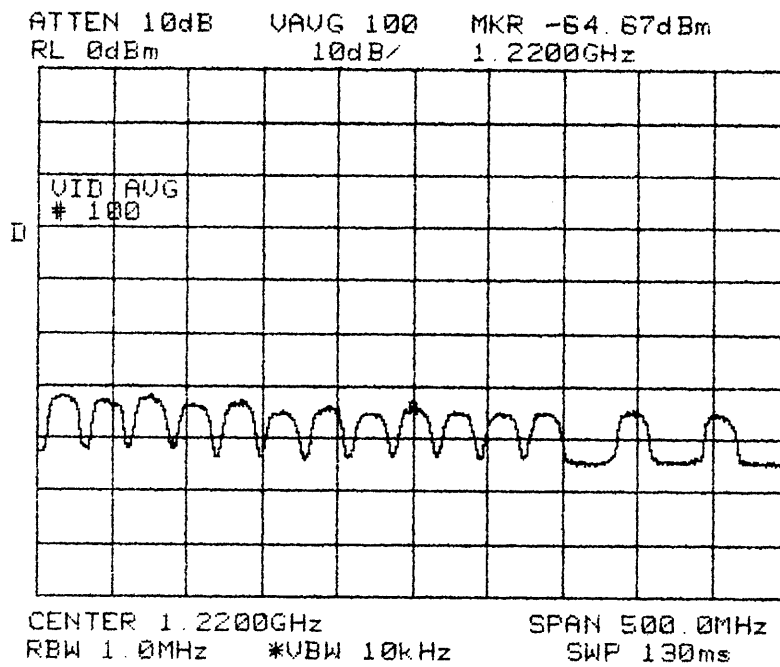


8/4/99 Jm/Adm

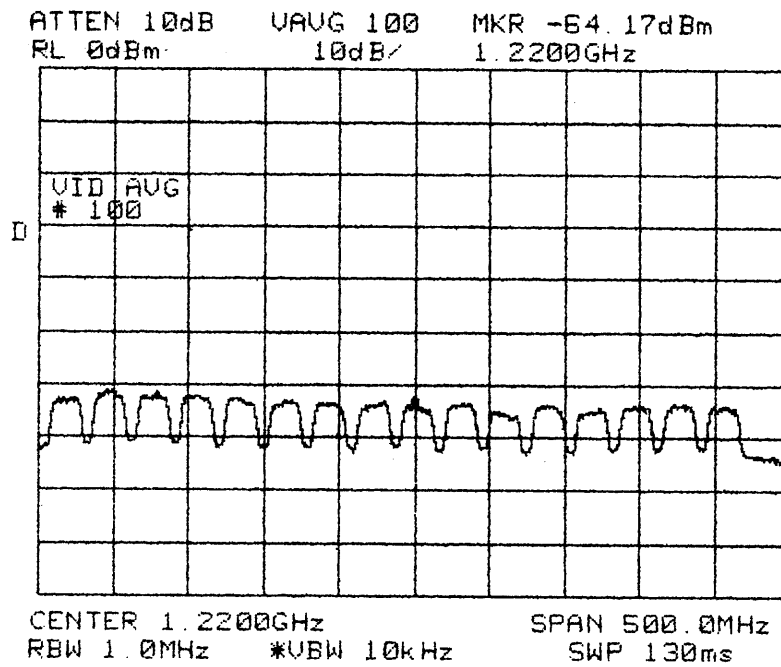
1-2C



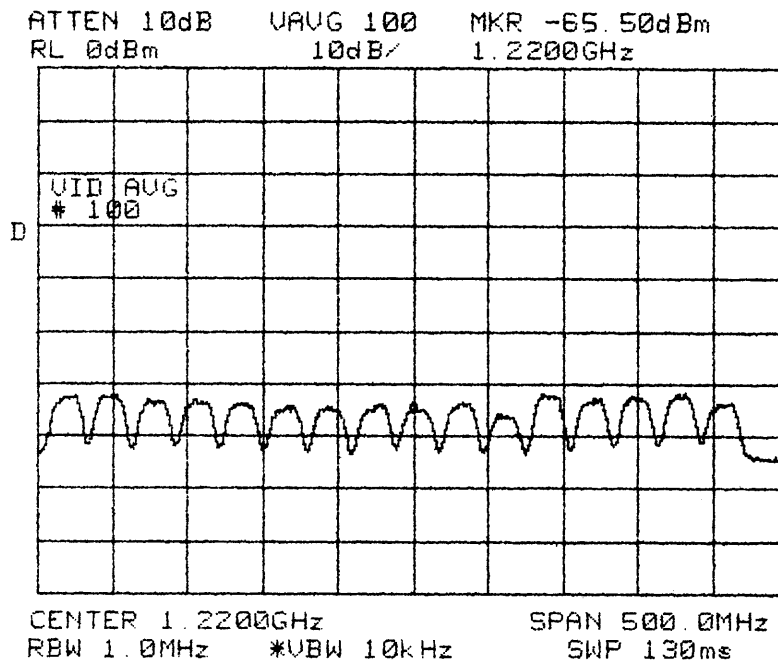
8/4/95 Du / Adura
1-2 d



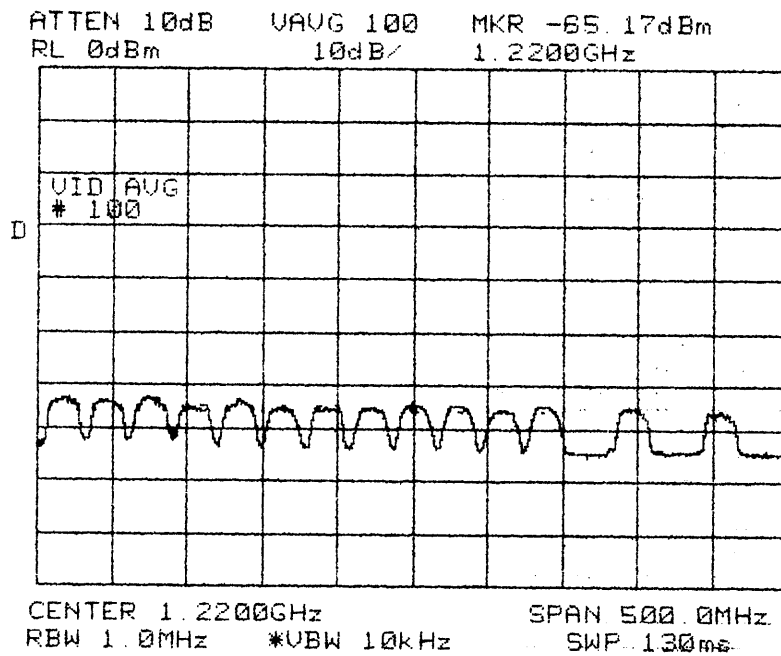
8/4/95 *De / Atuna*
1-3b



8/4/99 Jim Adura
1-3C



8/4/95 Du / Adura
L3d



COMMENTS FROM SITE 1

Site 1 River Place Apartments

Date: August 14, 1999

Weather Conditions: Partly cloudy with increasing clouds; Temp 93°

Comments:

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Riverplace

Rx Site No.

1R

p1

Set:

2 /

Re: Rx Condx Ref. No.

1

Date / Time:

8/14/99 1:09 PM EDT

Re: Tx Condx Ref. No.

1

Operator:

Jonathan

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename

(1) NP Signal – NPTx ON:

NP	Ant: DBS 1
Power (Px) -51.17	TV Pix
Plot ID 1R-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: NP 3
Power (Px) -65.67	TV Pix	
Plot ID 1R-2a	File Rec	

Sat 3	ES-615	Ant: NP 2
Power (Px) -65.67	TV Pix	
Plot ID 1R-2b	File Rec	

Sat 4	ES-119	Ant: NP 4
Power (Px) -66.33	TV Pix	
Plot ID 1R-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: NP 3
Power (Px) -65.83	TV Pix	
Plot ID 1R-3a	File Rec	

Sat 3	ES-615	Ant: NP 2
Power (Px) -65.67	TV Pix	
Plot ID 1R-3b	File Rec	

Sat 4	ES-119	Ant: NP 4
Power (Px) -67.00	TV Pix	
Plot ID 1R-3c	File Rec	

(4) NPTx OFF.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Rx Site No.

12

p2

Set:

1

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

	Sat 1	T-											Avg:	
DTV	Sat 2	T-18	79	84	83	83	79	81	83	83	82	83	Avg:	82.0
ES-615	Sat 3	T-18	92	93	92	93	92	92	92	92	92	92	Avg:	92.2
ES-119	Sat 4	T-18	89	89	89	89	89	89	89	89	89	89	Avg:	89.0

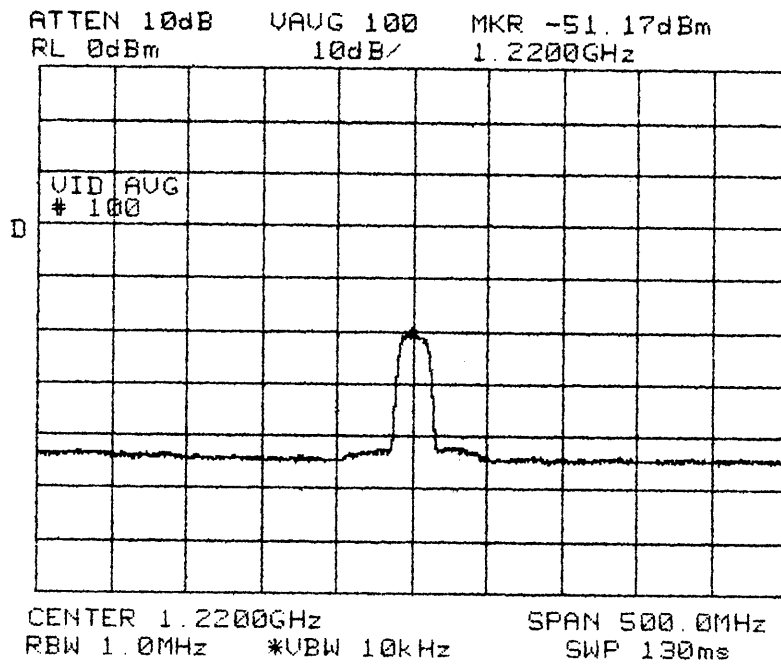
(3a) NPTx ON:

	Sat 1	T-											Avg:	
DTV	Sat 2	T-18	82	78	74	74	76	75	77	77	80	76	Avg:	76.9
ES-615	Sat 3	T-18	91	92	91	91	91	91	91	91	91	91	Avg:	91.1
ES-119	Sat 4	T-18	88	87	88	87	87	89	87	87	87	87	Avg:	87.4

Legend // Comments:

NPTx – Northpoint Transmitter.

NPTx Signal
(splitter output to SA)

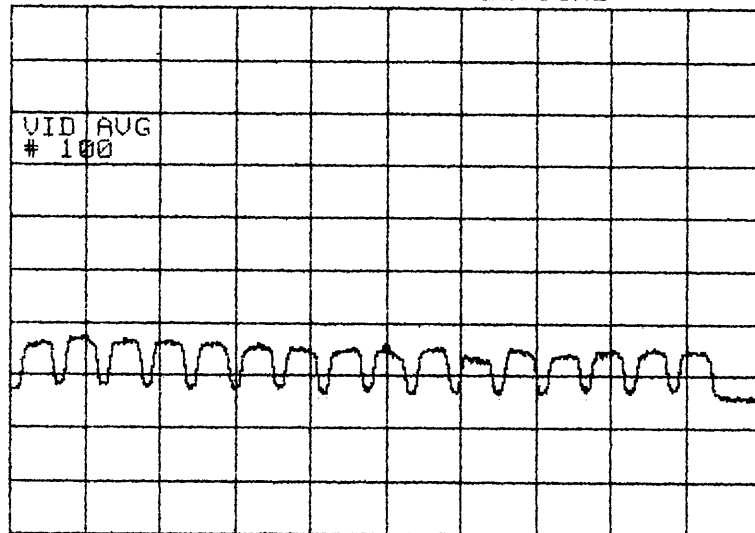


IR-1

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

VID/AUG
100

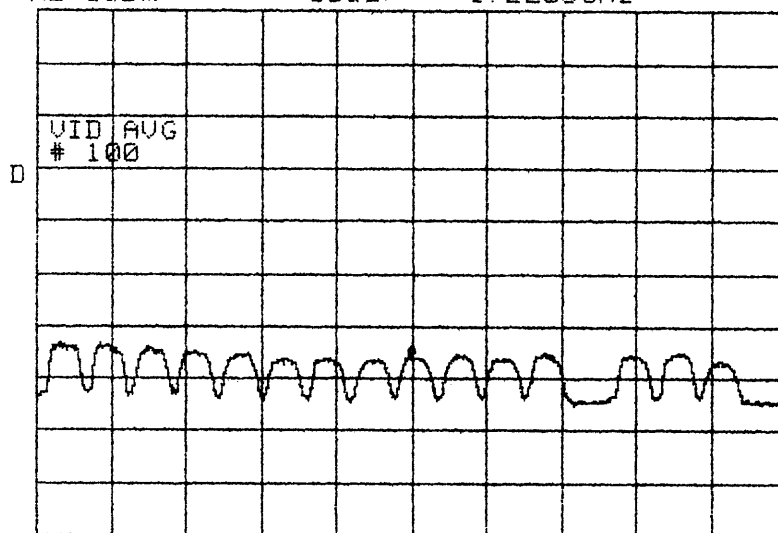
D



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

1R-2a

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

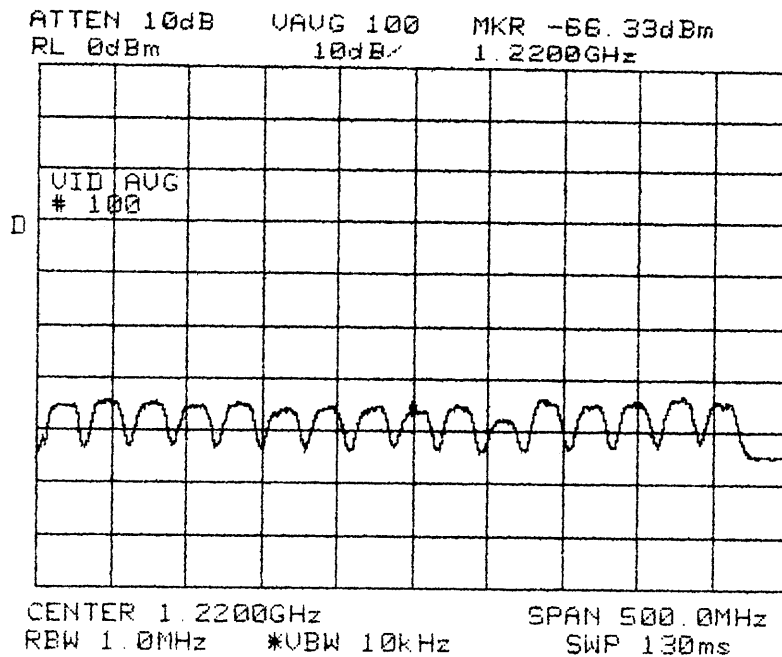


CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

1A-26

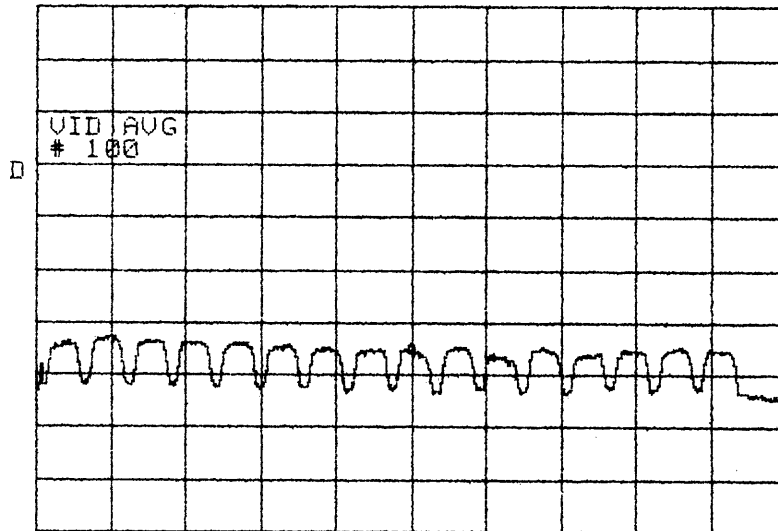
ES (119) Sat Signal
(split out to SA)

NPTx - OFF



1R-2c

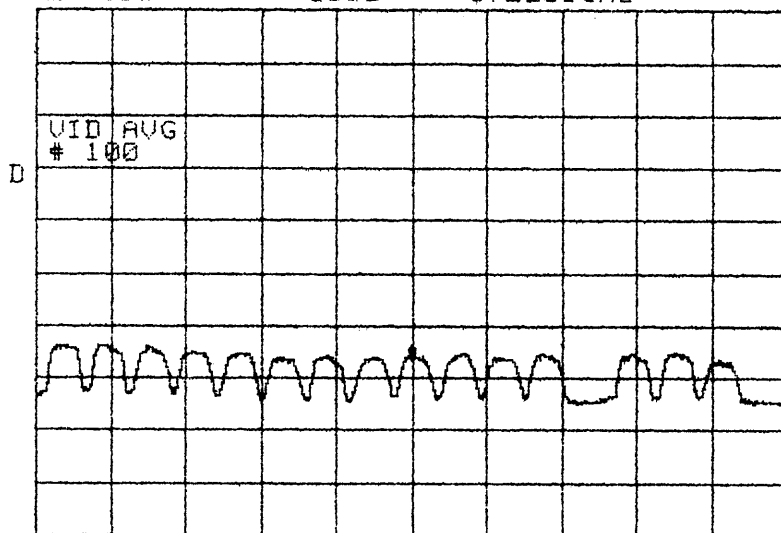
ATTEN 10dB UAWG 100 MKR -65.83dBm
RL 0dBm 10dB/ 1.2200GHz



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

1R-3a

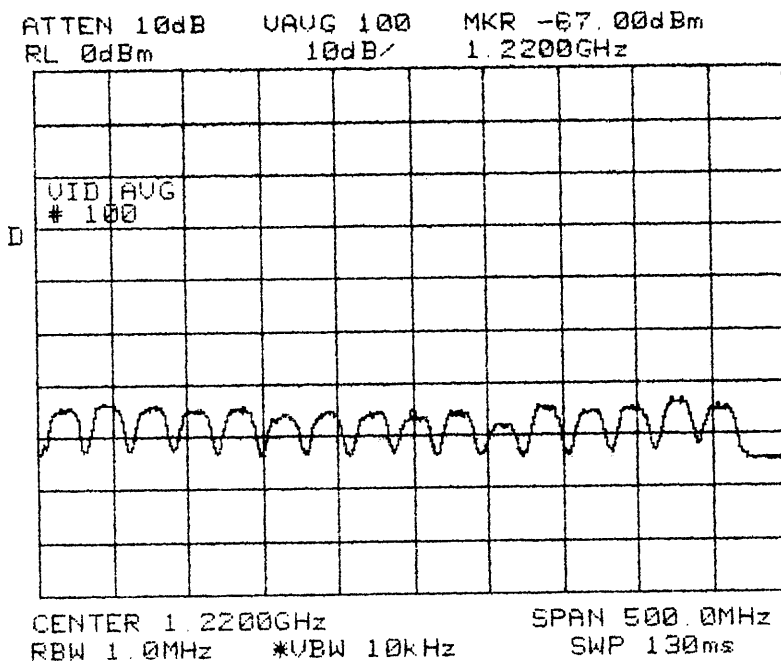
ATTEN 10dB VAUG 100 MKR -65.67dBm
RL 0dBm 10dB/ 1.2200GHz



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

1R-36

ES (119) sat signal
(splitter output to SA)



1R-3C

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Location Log

Rx Site No.

1A

p1

Set:

21

Site Name:

Date / Time:

8/14/99 1:02 PM EDT

Riverside Apartments

Operator:

Jonathan

GPS Receiver Reading at Site:

Lat: _____

Time Read _____ EDT

Lon: _____

Weather: PC w/incl. clouds
~ 93°F

Elev: _____

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

Same as Site No. 1 previously

Rx Site Location Log

Rx Site No.

1

p1

Set:

1

Site Name:

Date / Time:

08/04/99 5:45p EDT

River Place Apt.

Operator:

Akin Falodun

GPS Receiver Reading at Site:

From GPS:

Lat: N 38° 53.519'

From Map:

N 38° 53.530'

Time Read EDT

Lon: W 77° 04.078'

W 077° 04,099'

clear/hazy sky

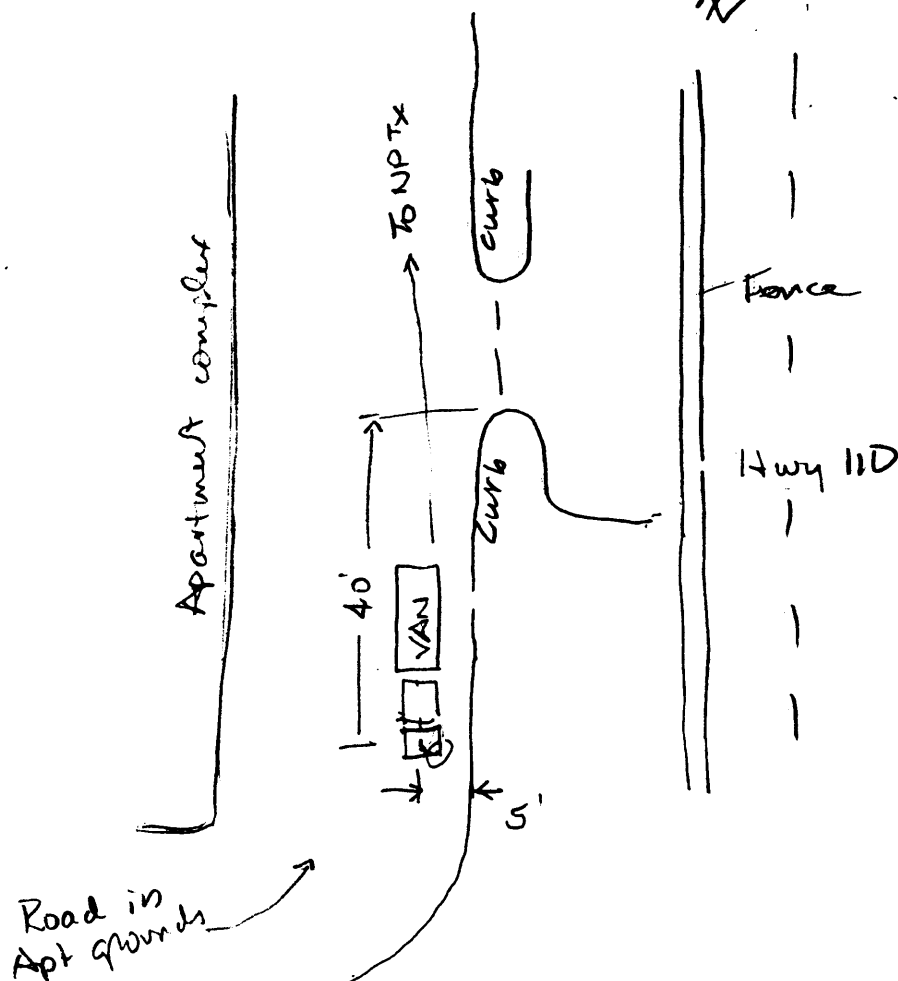
Temp ~ 90°F

Elev:

(GPS being obtained)

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

East side of Apt grounds



Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Condx/Event Log -- BER Data

(Re: Lucent / Newtec – NTC/2063/xx system.)

Rx Site No.

1R

p1

Set:

1/1

Re: Rx Condx Ref. No.

1

Date / Time:

8 / 14 / 99 2:54pm EDT

Re: Tx Condx Ref. No.

1

Operator:

Jonathan

Data Measurements:

NPTx Carrier Freq. (GHz)	12.47	NTC Filename	Log 8-14-99.dat
Satellite Monitored	ES-119	Transponder	T-18

(See separate Rx Site Data Log for Signal Powers and Rx Condx.)

Ant. LNB output direct to NTC input.

* LNB output directly to Delsat input

#	Time – EDT	Condition / Event
	2:54:00	Environmental Observations Begin (NPTx is OFF)
	2:55:10	Car in Parking Lot → N
	2:59:53	Noticed that Eb/No is unchecked
	3:00:39	Airplane passed
	02:05	Car passed → N (~5 ft. W)
	02:53	Eb/No manually checked / Traffic on Rte. 110 (at 70 ft east of us) N/S at approx. 33 cars/southbound
		97°F Sky is partly cloudy with light haze 10% clouds
	07:45	Car → N
	14:21	Car → N
	15:40	Car → N
	17:17	Car → N
	18:01	Car → N
	18:33	motorcycle → S, airplane passed
	20:51	same motorcycle → N
	21:16	car → N Weather conditions remain the same
	21:50	Airplane passed
	24:40	Airplane passed
	26:43	Car → N
	28:50	Car → N
	32:520	Car → N *Weather → 50% clouds, darker grey clouds 95°
	35:40	Car → N, Airplane passed
	37:10	Car → S, Airplane passed
	3:38:57	NPTx ON
	39:23	Airplane passed
	40:04	Car → N
	41:30	Car → S
	3:42:49	NPTx OFF (Taken down to check in power meter)
	47:15	Car → N
	53:26	Airplane passed, Car → N
	54:20	Noticed Eb/No was unchecked, then re-checked it
	3:55:44	NPTx ON
	57:32	Airplane passed
	4:02:03	Car → N
	03:34	Car → N
	10:01	Car → N
	10:20	Weather change: completely covered w/ dark rain clouds
	12:40	Car → N

Set:

COMMENTS FROM SITE 1

Site 1 River Place Apartments

Date: August 18, 1999

Weather Conditions: Clear sky; large low cumulus clouds; low haze;
Temp 90°

Comments:

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Riverplace Ant.

Rx Site No.

1

p1

Set:

3/1

Re: Rx Condx Ref. No.

1

Date / Time:

8/18/99 14:00 EDT

Re: Tx Condx Ref. No.

1

Operator:

Adura

Data Measurements:

Primarily to get Lucent NTC Box data

NPTx Carrier Freq. (GHz)

12.47

Disk Filename

X

+ NTC Box Data

(1) NP Signal – NPTx ON:

Ant: DBS 1

Power (Px)

-51.00dB

TV Pix

0x

Plot ID

1-1

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

Sat 2 Ant:

Power (Px)

TV Pix

Plot ID

File Rec

Sat 3 Ant:

Power (Px)

TV Pix

Plot ID

File Rec

Sat 4 ES(119) Ant: NP4

Power (Px)

-66.83dB

TV Pix

Plot ID

1-2d

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 Ant:

Power (Px)

TV Pix

Plot ID

File Rec

Sat 3 Ant:

Power (Px)

TV Pix

Plot ID

File Rec

Sat 4 ES(119) Ant: NP4

Power (Px)

-66.50dB

TV Pix

Plot ID

1-3d

File Rec

X

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No.

1

p2

Set:

2	1
---	---

Signal Strength Pointer (ssp) Data --

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-											Avg:	
Sat 3	T-											Avg:	
Sat 4	T-18	89	88	89	89	89	88	89	89	89	89	Avg:	88.8

(3a) NPTx ON:

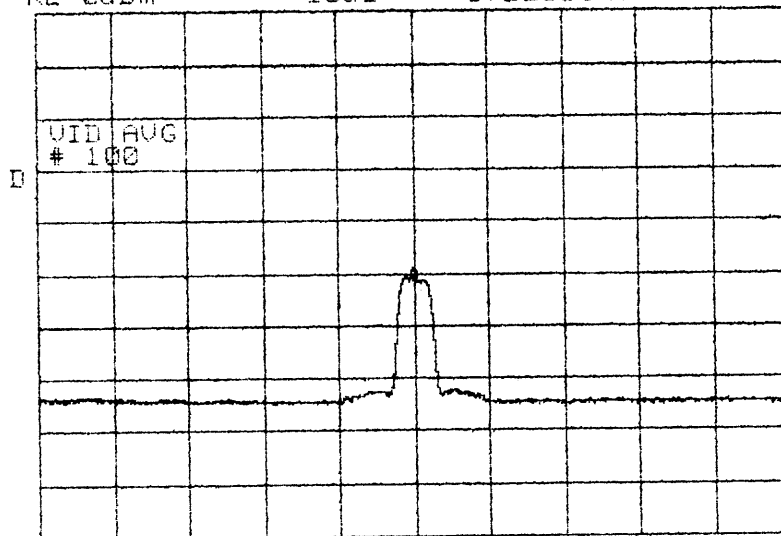
Sat 1	T-											Avg:	
Sat 2	T-											Avg:	
Sat 3	T-											Avg:	
Sat 4	T-18	88	87	88	88	88	87	88	88	88	87	Avg:	87.7

Legend // Comments:

NPTx – Northpoint Transmitter.

8/18/99
1-1
Adura

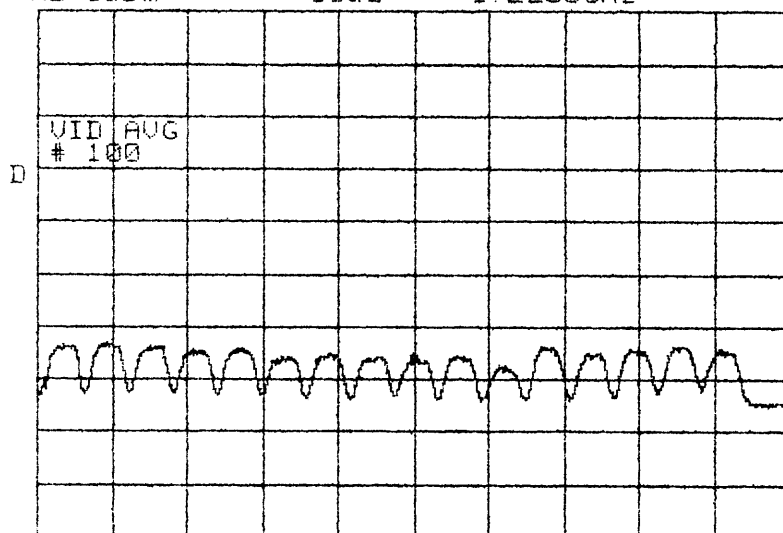
ATTEN 10dB UAUG 100 MKR -51.00dBm
RL 0dBm 10dB/ 1.2200GHz



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

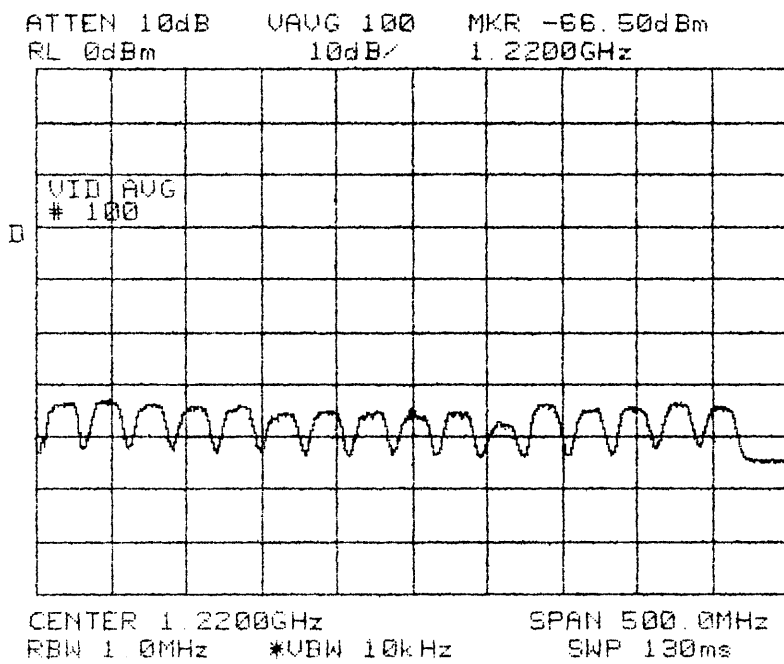
8/18/99
1-2d
Adura

ATTEN 10dB UAUG 100 MKR -66.83dBm
RL 0dBm 10dB/ 1.2200GHz



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

8/18/99
1-3d Adv



Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Condx/Event Log -- BER Data

(Re: Lucent / Newtec – NTC/2063/xx system.)

Rx Site No.

1

p1

Set:

31

Re: Rx Condx Ref. No.

1

Date / Time:

8/18/99 2:23pm EDT

Re: Tx Condx Ref. No.

1

Operator:

Dr. W / Jonathan

Data Measurements:

NPTx Carrier Freq. (GHz)	12.47	NTC Filename	log 8-18-99, dat
Satellite Monitored	ES-119	Transponder	T-18

(See separate Rx Site Data Log for Signal Powers and Related Condx.)

Weather - Blue Sky, large low cumulus clouds, low haze, ~90°F, slight breeze

#	Time -- EDT	Condition / Event
	2:23:10 pm	Start Logging NPTx is OFF
		Will not be logging passing cars - only aircraft and large vehicles in the parking lot
	28:01	Airplane
	31:15	Airplane
	32:30	Airplane
	36:12	Airplane
	41:48	Airplane
	2:43:23 pm	NPTx ON
	44:59	Airplane
		* Increasingly cloudy, particularly near ES-119
	54:50	Airplane
	56:57	Airplane
	58:28	Airplane
	3:00:03 pm	Airplane
	01:51	Airplane
	08:10	Airplane
	11:15	Airplane
	3:15:11	NPTx OFF
	15:38	Airplane
		* Cloud cover still increasing near ES-119
	19:04	Airplane
	20:30	Airplane
	23:50	Airplane
	29:16	Airplane
	147	Airplane
	3:30:08 pm	End of Logging Event

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Location Log

Rx Site No.

1

p1

Set:

31

Site Name:

Date / Time:

8/18/99 2:23 EDT

Riverside Apts

Operator:

Jon

GPS Receiver Reading at Site:

Lat: _____

Time Read _____ EDT

Lon: _____

Elev: _____

Weather:

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

same as before