

COMMENTS FROM SITE R4

Site R4 Banniker Drive (Washington DC)

Date: September 3, 1999

Weather Conditions: Mostly cloudy; Temp 75°

Comments:

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Sanniker Dr

Rx Site No. R4
Set: 11

p1

Re: Rx Condx Ref. No. 1 Date / Time: 09/03/99 11:30 EDT
Re: Tx Condx Ref. No. 1 Operator: Adura

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47 Disk Filename

(1) NP Signal – NPTx ON:

	NP Tx	Ant: DBS1			
Power (Px)	-47.50dB	TV Pix	OK	Plot ID	R4-1
				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)	-66.83dB	TV Pix		Plot ID	R4-2b
				File Rec	—

Sat 3	ES (61.5)	Ant: NP2			
Power (Px)	-65.83dB	TV Pix		Plot ID	R4-2c
				File Rec	—

Sat 4	ES (119)	Ant: NP4			
Power (Px)	-68.67dB	TV Pix		Plot ID	R4-2d
				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)	-67.67dB	TV Pix		Plot ID	R4-3b
				File Rec	—

Sat 3	ES (61.5)	Ant: NP2			
Power (Px)	-66.17dB	TV Pix		Plot ID	R4-3c
				File Rec	—

Sat 4	ES (119)	Ant: NP4			
Power (Px)	-67.00dB	TV Pix		Plot ID	R4-3d
				File Rec	—

(4) NPTx OFF.

Northpoint Technology – DBS Compatibililty Test – Washington DC Area

Rx Site Data Log

Rx Site No. R4 p2
 Set: 11

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-										Avg:		
Sat 2	T-18	86	84	86	85	84	87	85	84	83	85	Avg:	85.0
Sat 3	T-18	93	93	93	93	93	94	93	94	94	94	Avg:	93.4
Sat 4	T-18	86	87	85	86	86	86	87	87	87	85	Avg:	86.2

(3a) NPTx ON:

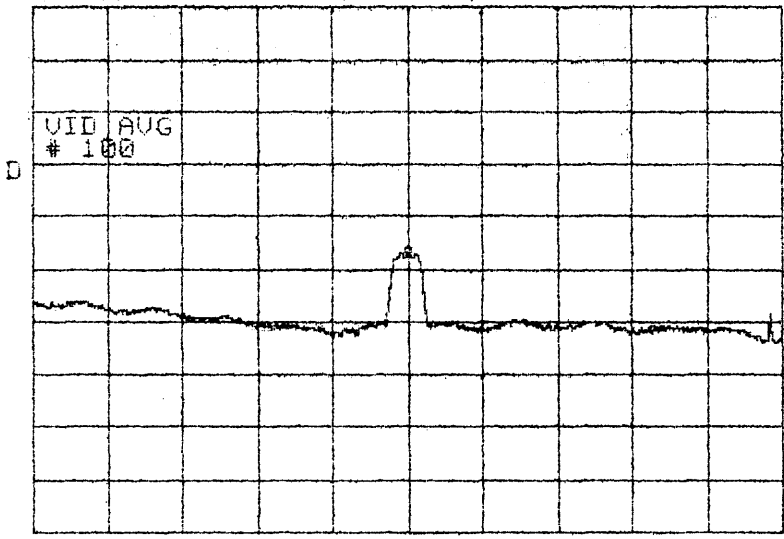
Sat 1	T-										Avg:		
Sat 2	T-18	83	81	83	84	84	84	82	83	84	84	Avg:	83.2
Sat 3	T-18	92	92	91	92	92	92	91	93	92	93	Avg:	92.0
Sat 4	T-18	86	86	86	86	86	86	86	87	86	86	Avg:	86.1

Legend // Comments:

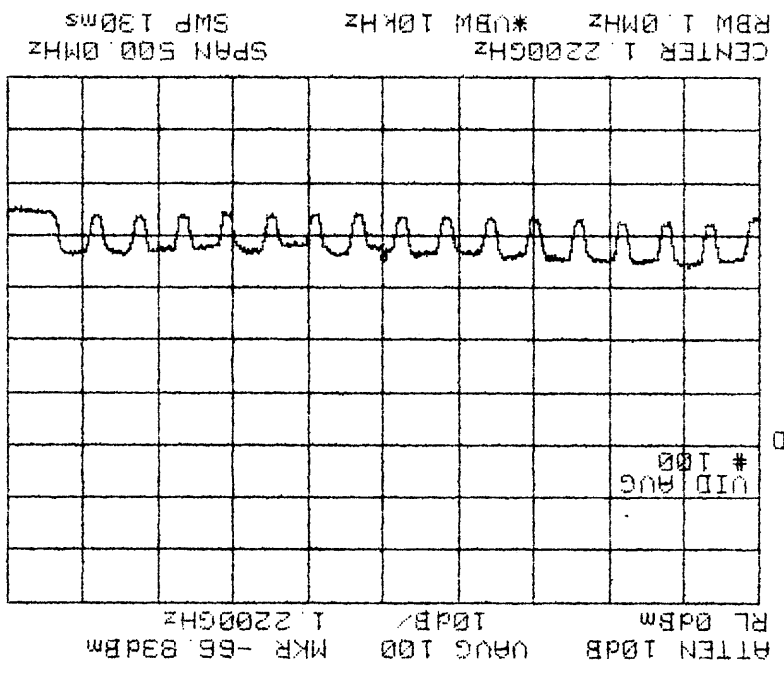
NPTx – Northpoint Transmitter.

09/03/99
R4-1
Adura

ATTEN 10dB UAUG 100 MKR -47.50dBm
RL 0dBm 10dB/ 1.2200GHz



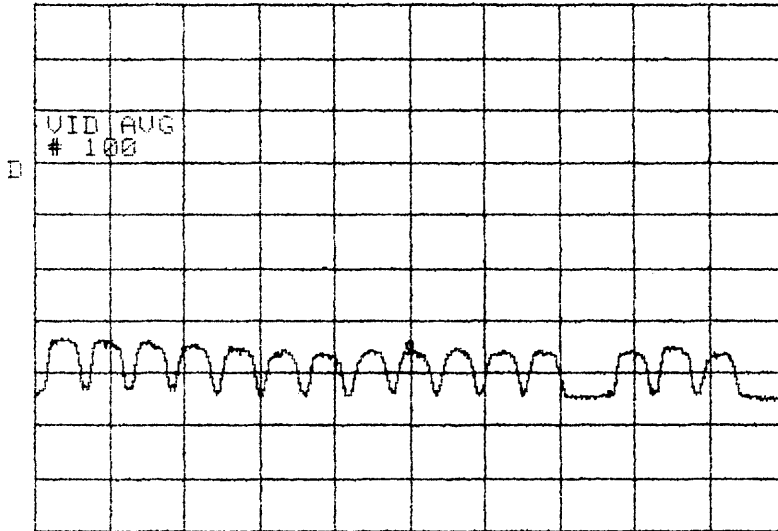
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms



09/03/99
 R4-26
 Adam

09/03/99
R4-2C
Atura

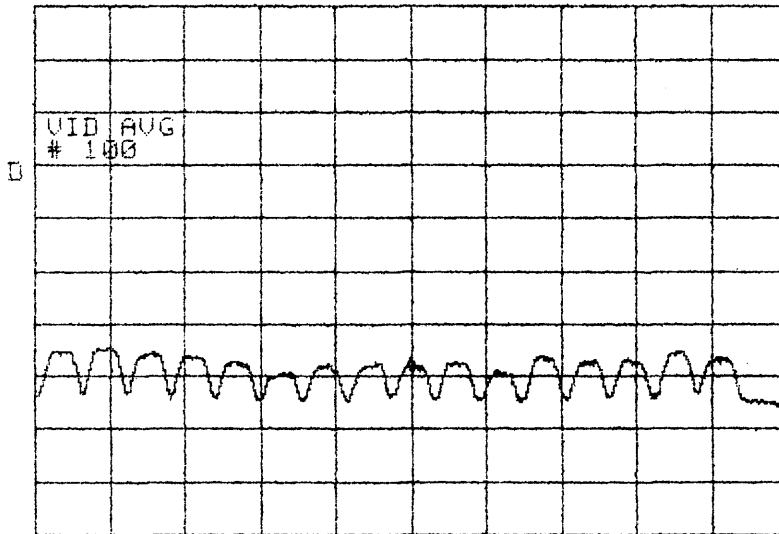
ATTEN 10dB UAUG 100 MKR -65.63dBm
RL 0dBm 10dB/ 1.2200GHz



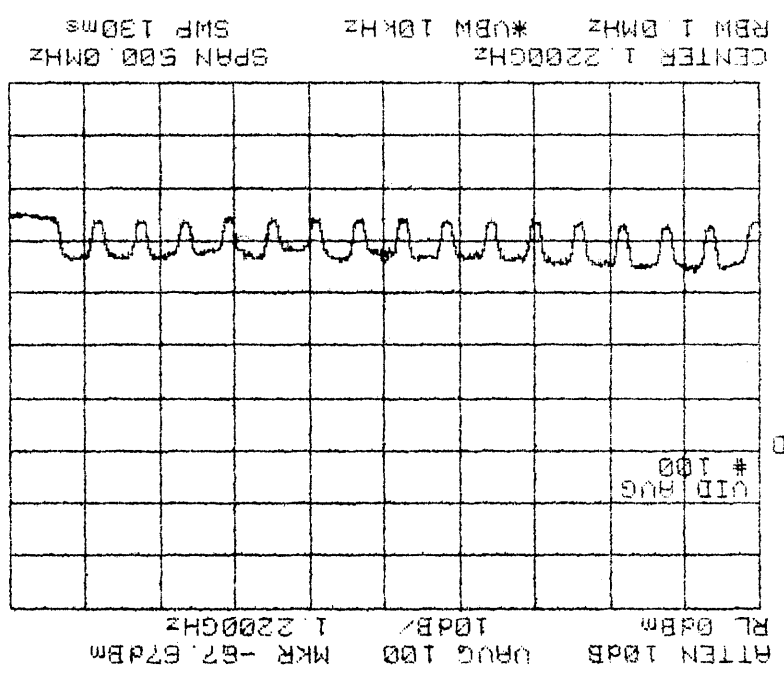
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

09/03/99
R4-2d
Volura

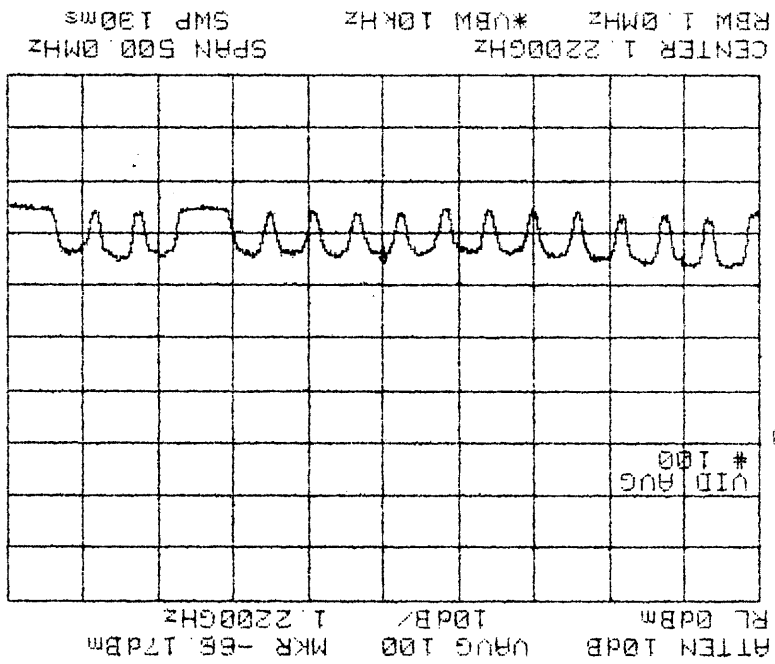
ATTEN 10dB UAUG 100 MKR -68.67dBm
RL 0dBm 10dB/ 1.2200GHz



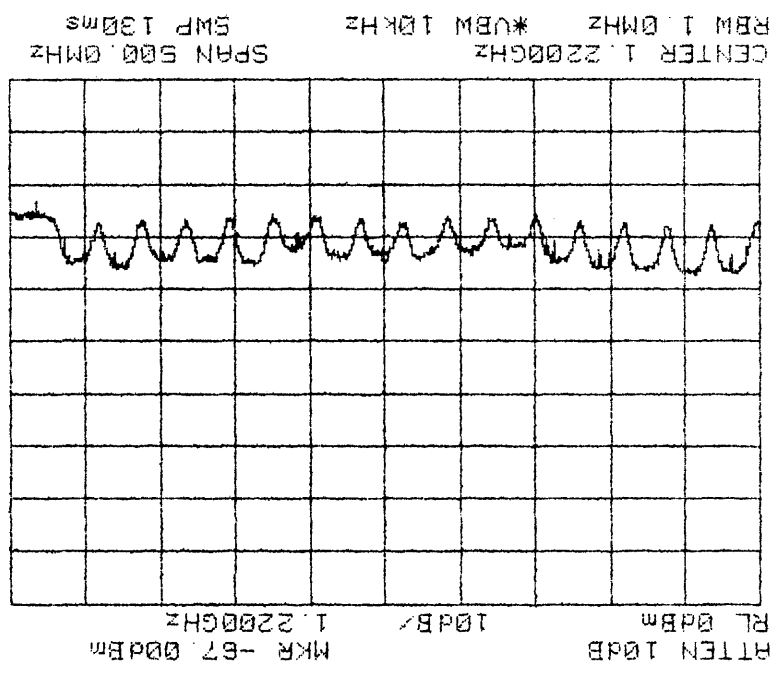
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms



09/03/99
 R4-39
 Wbump



09/03/99
 R4-3C
 Keluara



09/03/99
 R4-3d
 #Huma

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Condx/Event Log -- BER Data

Rx Site No.

R4

p1

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

3194 Banniker Drive

Set:

1 / 1

Re: Rx Condx Ref. No.

1

Date / Time:

9 / 3 / 99 12:24pm EDT

Re: Tx Condx Ref. No.

1

Operator:

Jonathan Verhis

Data Measurements:

NPTx Carrier Freq. (GHz)	12.48	NTC Filename	log 9-3-99.dat
Satellite Monitored	ES-17	Transponder	T-18

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

Time is synchronized with computer's clock

#	Time – EDT	Condition / Event
	12:34:32 pm	Weather - Mostly cloudy (75%) but still sunny Temp. 75 ~ 80°
		<u>NPTx OFF</u>
	12:46:00	Begin Logging Events
	46:14	Car → N, Car → S Banniker Dr
	1:30	Car → N
	47:20	2 Cars → N
	48:10	Car → N
	1:49	Car → S (only recording cars going south) (nearest van)
	52:13	Walker on sidewalk near fish
	53:23	walkers on sidewalk until 53:35
	57:07	Car → S
	59:51	Car → S
	11:00:50 pm	Car → S
	2:20	2 Cars → S
	1:10:48 pm	<u>NPTx ON</u>
	13:16	Car → S
	19:20	Car → S
	24:10	Truck and Car → S
	25:49	Car → S
	26:40	Walker on sidewalk
	30:53	Car → S
	31:58	Car → S
	33:11	Car → S
		Weather: (clearing up slightly near ES-119, still mostly cloudy, temp 75-80°)
	36:34	Car → S
	39:18	Car → S
	:37	Car → S, Walker on sidewalk
	1:42:40 pm	<u>NPTx OFF</u>
	44:03	Car → S
	1:53:20	Car → S
	54:36	Car → S
	55:10	Car → S
	56:53	Car → S
	1:59:00	stop logging – NTC box still on for a few moments.

DRW

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site 3D Pattern Log

Rx Site No. E4
 Set: /

Re: Rx Condx Ref. No. 1

Date / Time: 9/03/99 2:10 EDT

Re: Tx Condx Ref. No. 1

Operator: Dew / Adura

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

	Elev.→	0	15	30	45	60	75	90	
Azim.									
0		NO Reflections noted except for one very small signal which apparently is reflected from West wall of 3194 (see location log)							
15									
30									
45									
60									Dew
75									
90									
105									
120									
135									
150									
165									
180									
195									
210									
225									
240									
255									
270									
285									
300									
315									
330									
345									
360									

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.

Northpoint Technology - DBS Compatibility Test - Washington DC Area

Rx Site Location Log

Rx Site No. R4 p1
Set: 11

Site Name:

Date / Time:

9/3/99 : : EDT

Banniker Drive / 3194

Operator:

JRW

GPS Receiver Reading at Site:

Lat: N 38° 55.570'

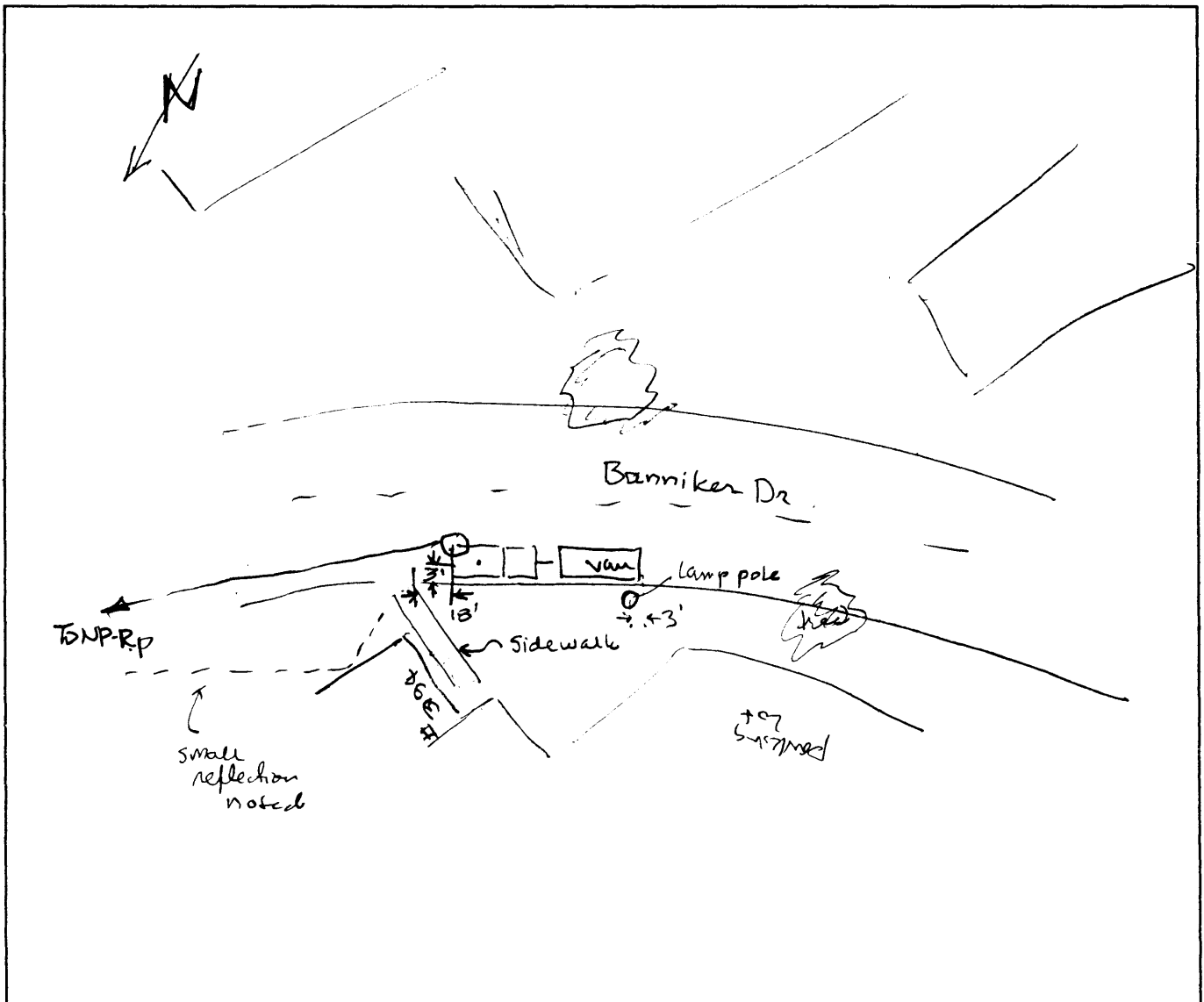
Time Read 1632 ~~EDT~~ GMT

Lon: W 076° 57.710'

Elev: _____

Weather: PC - 60% thru
85-90°F light wind.

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



COMMENTS FROM SITE R5

Site R5 Washington Overlook Apartments

Date: September 3, 1999

Weather Conditions:

Comments: Site located behind the repeater, no signal expected or detected.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Washington Overlook Apt.

Rx Site No.

R5

p1

Set:

11

Re: Rx Condx Ref. No.

1

Date / Time:

09/03/99 16:00 EDT

Re: Tx Condx Ref. No.

1

Operator:

A. J. ...

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename -

(1) NP Signal – NPTx ON:

see note -

	NPTx	Ant: DBS 1			
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

Sat 2		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

Sat 3		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

Sat 4		Ant:			
Power (Px)		TV Pix		Plot ID	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		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

Sat 3		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

Sat 4		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No. R5 p2
 Set: 111

Signal Strength Pointer (ssp) Data --

(2a) NPTx OFF:

Sat 1	T-										Avg:	
Sat 2	T-										Avg:	
Sat 3	T-										Avg:	
Sat 4	T-										Avg:	

(3a) NPTx ON:

Sat 1	T-										Avg:	
Sat 2	T-										Avg:	
Sat 3	T-										Avg:	
Sat 4	T-										Avg:	

Legend // Comments:

NPTx – Northpoint Transmitter.

*Note – clear view of Repeater Body (from behind)
 can see parapet - at eye level w/ Parapet roof.
 cannot see Repeater Tx/Ant.*

*NO NP signal is seen, "Tweaker" peaks at a right place –
 suspect possible scatter of broadband noise via Repeater –*

*Did NP-Tx OFF/ON test to watch tweaker reading at peak –
 no change.*

Northpoint Technology - DBS Compatibility Test - Washington DC Area

Rx Site Location Log

Rx Site No. RS p1
Set: /

Site Name:

Date / Time:

9/10/99 3:56p EDT

Washington Overlook/3504

Operator:

[Signature]

GPS Receiver Reading at Site:

Lat: N 38° 55.674'

Time Read 1959 ~~EST~~ ^{GMT}

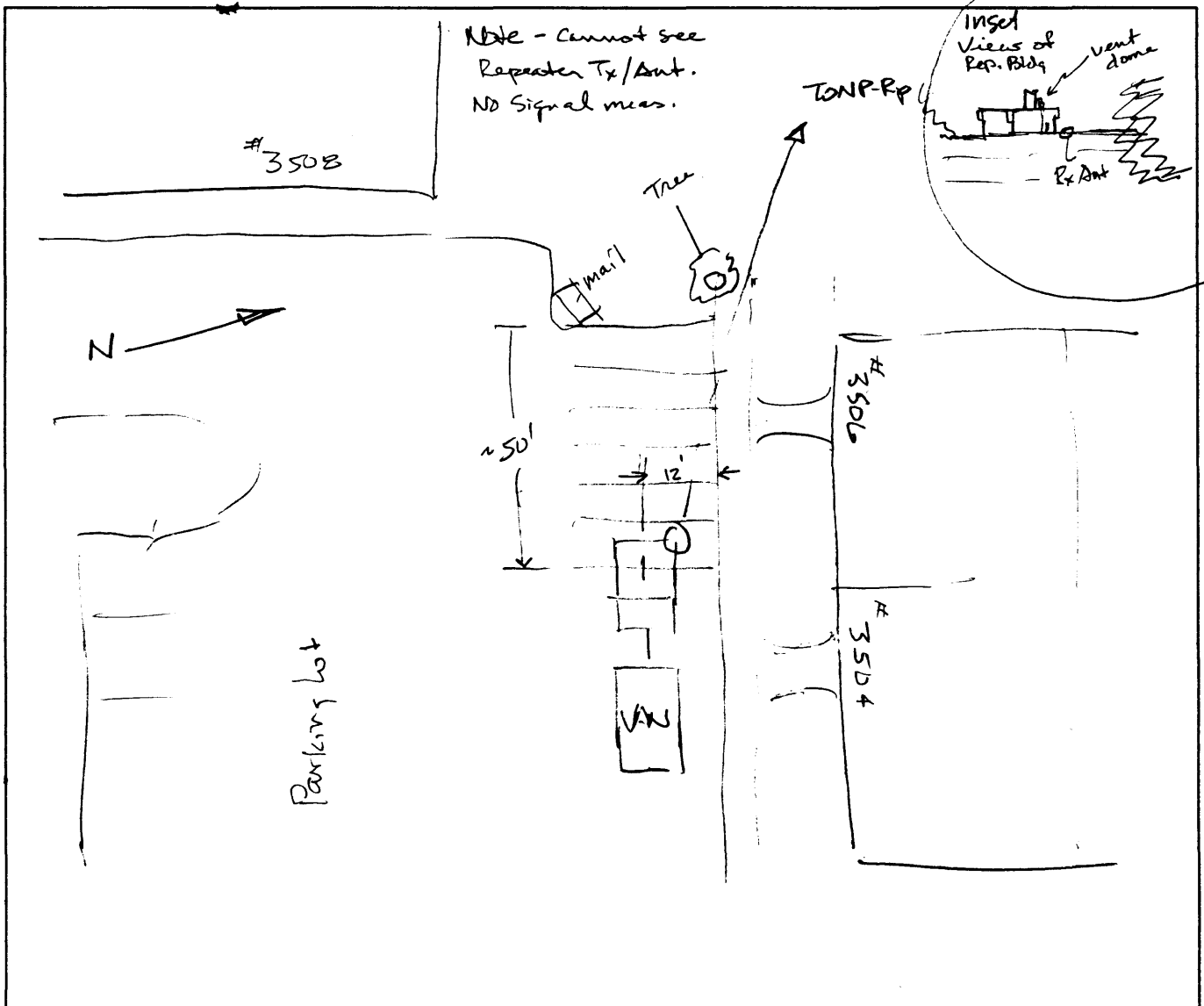
Lon: W 076° 57.332'

Elev: _____

Weather: ~~OC~~ - 95% - thin
~ 90° F - no wind

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

17
3/12
5



COMMENTS FROM SITE R6

Site R6 Fort Lincoln Drive (Washington DC)

Date: September 3, 1999

Weather Conditions:

Comments:

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Fork Lincoln 45/3100

Rx Site No. R6

p1

Set: 1/1

Re: Rx Condx Ref. No. 1

Date / Time: 09/03/99 16:45 EDT

Re: Tx Condx Ref. No. 1

Operator: Aclura

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename -

(1) NP Signal – NPTx ON:

	NP Tx	Ant: DBS 1			
Power (Px)	-43.17dB	TV Pix	01	Plot ID	R6-1
				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)	-66.67dB	TV Pix		Plot ID	R6-2b
				File Rec	-

Sat 3	ES (61.5)	Ant: NP2			
Power (Px)	-66.33dB	TV Pix		Plot ID	R6-2c
				File Rec	-

Sat 4	ES (119)	Ant: NP4			
Power (Px)	-66.83dB	TV Pix		Plot ID	R6-2d
				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:			
Power (Px)	-66.17dB	TV Pix		Plot ID	R6-3b
				File Rec	-

Sat 3	ES (61.5)	Ant:			
Power (Px)	-66.33dB	TV Pix		Plot ID	R6-3c
				File Rec	-

Sat 4	ES (119)	Ant:			
Power (Px)	-66.83dB	TV Pix		Plot ID	R6-3d
				File Rec	-

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No. R6 p2
 Set: /

Signal Strength Pointer (ssp) Data --

(2a) NPTx OFF:

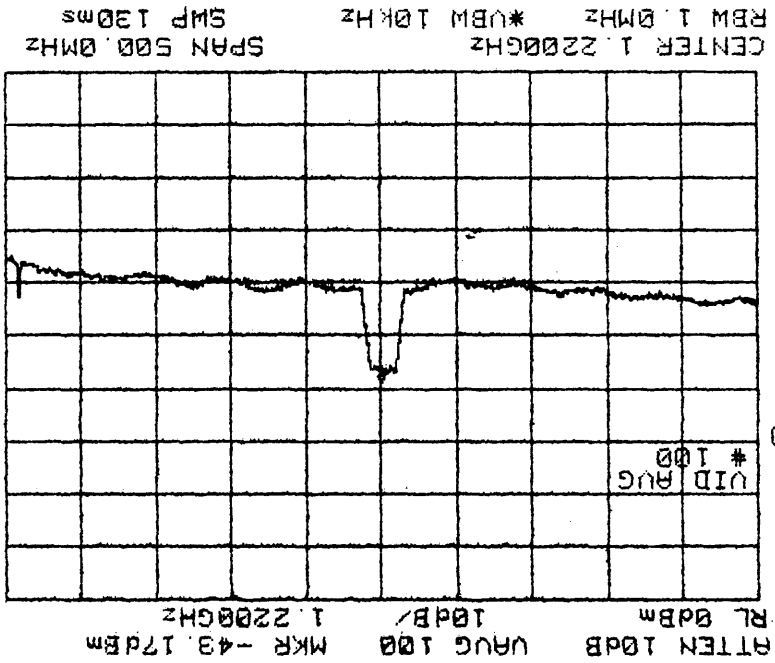
Sat 1	T-											Avg:	
Sat 2	T-18	83	80	79	80	78	79	80	83	83	79	Avg:	80.4
Sat 3	T-18	93	93	93	93	94	93	94	93	93	94	Avg:	93.3
Sat 4	T-18	90	90	90	91	90	90	89	91	89	90	Avg:	90.0

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-18	78	81	78	80	80	80	79	79	78	79	Avg:	79.2
Sat 3	T-18	91	91	91	92	91	91	91	91	90	91	Avg:	91.0
Sat 4	T-18	90	90	90	89	90	90	89	91	90	89	Avg:	89.8

Legend // Comments:

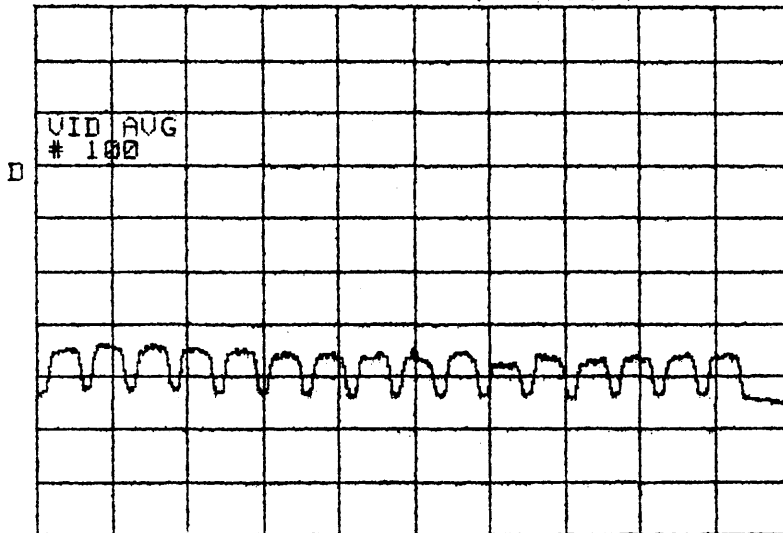
NPTx – Northpoint Transmitter.



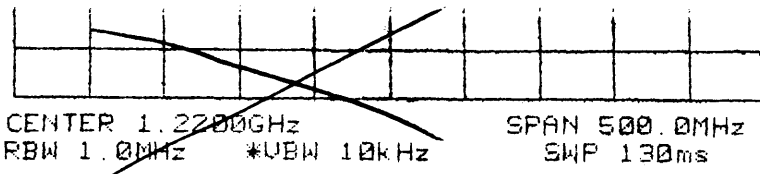
09/03/99
 R6-1
 Advura

09/03/99
R6-2b
Aduna

ATTEN 10dB VAVG 100 MKR -68.67dBm
RL 0dBm 10dB/ 1.2200GHz



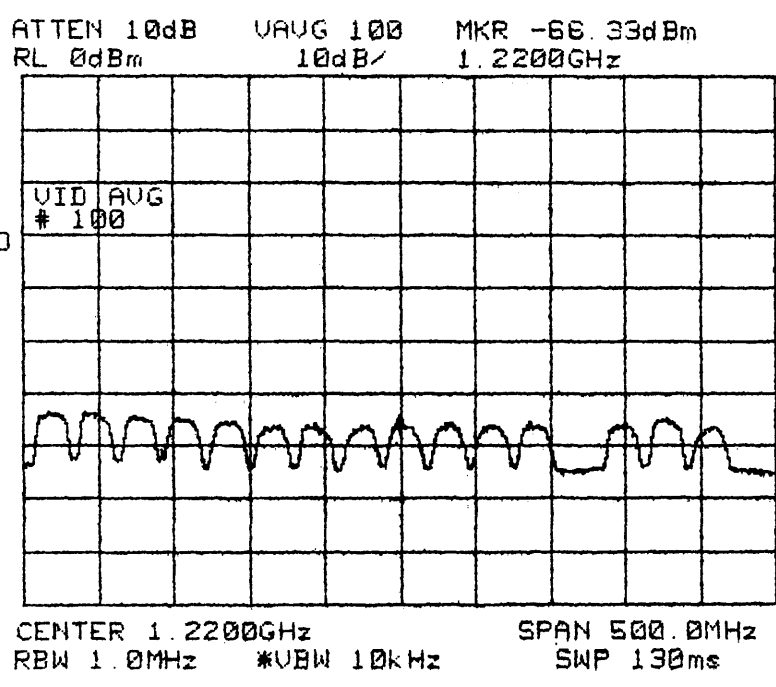
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

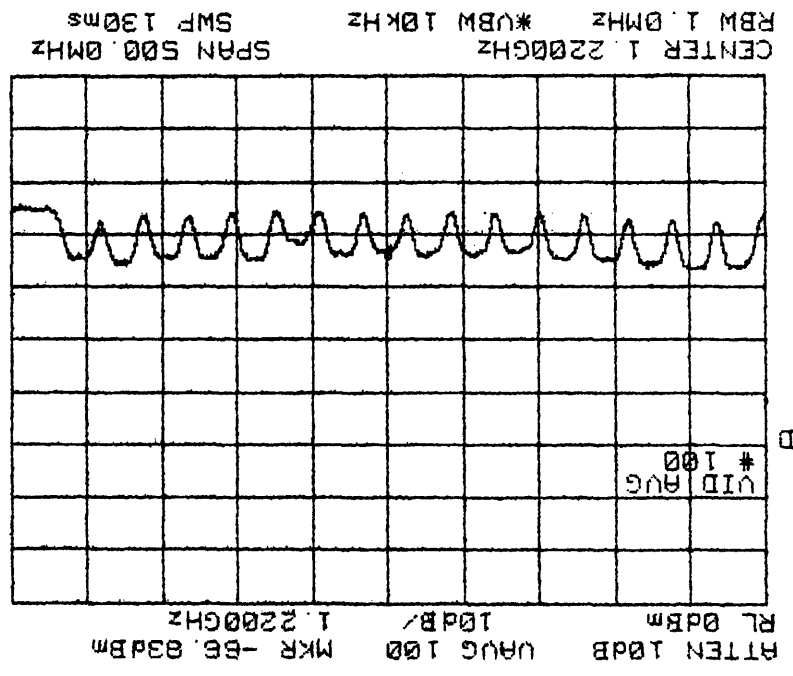
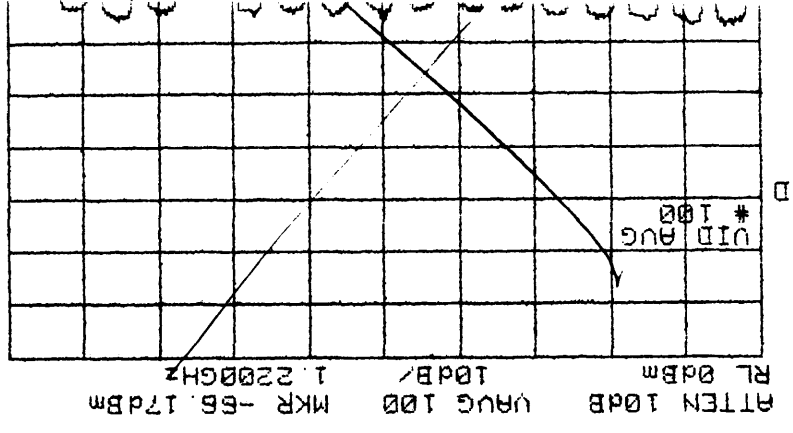


09/03/99

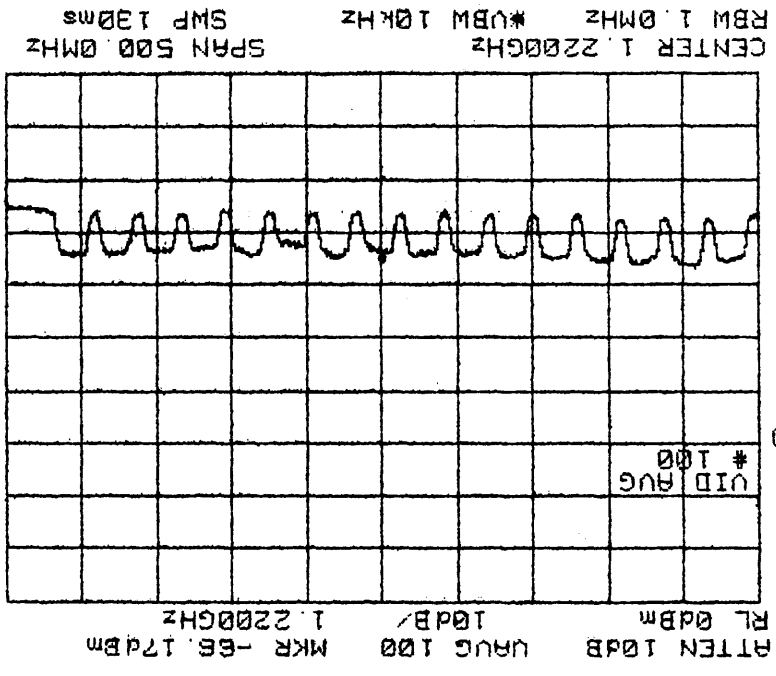
R6-2C

Adura





09/03/99
 R6-2d
 Figure

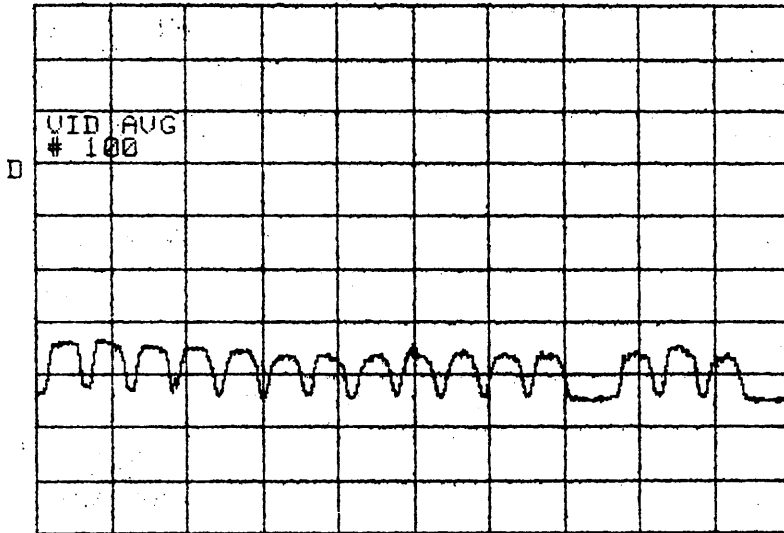


29/03/99
 R6-36
 Adura

09/03/99
R6-3C

Adura

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

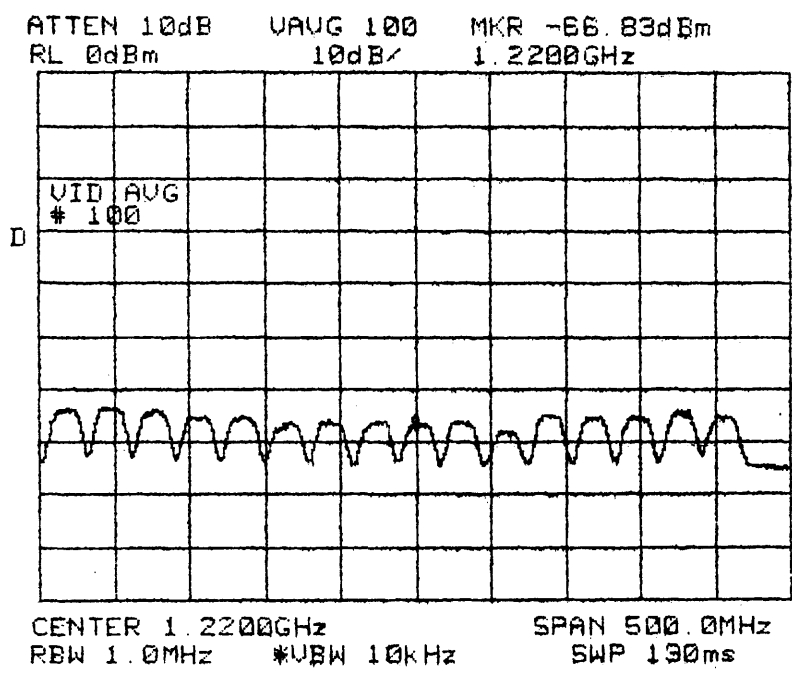


CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

09/03/99

R6-3d

Akira



Northpoint Technology - DBS Compatibility Test - Washington DC Area

Rx Site Condx/Event Log -- BER Data

Rx Site No.

26

p1

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

Ft Lincoln Dr. / 3100

Set:

1/1

Re: Rx Condx Ref. No.

1

Date / Time:

9/23/99 17:22 EDT

Re: Tx Condx Ref. No.

1

Operator:

Dem / Adura

Data Measurements:

NPTx Carrier Freq. (GHz)	12.47	NTC Filename	log 9-3-99.dat
Satellite Monitored	ES119	Transponder	T-1B

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

NPTx → NPRp (Repeater)

#	Time - EDT	Condition / Event
	17:23	start logging valid data - NPTx OFF
	~ 24:35-50	~ 5 cars → S
	~ 26:30	3 cars → S
	27:35-50	5 cars → S
	32:46	WX - DC - 100% - moderate (camera sun diffuse thru); 85-90° / light wind. Traffic → S on Ft Lincoln Rd - 6 veh/min (avg)
	39:20-40	5 cars → S
	40:40-5	3 cars → S
	17:44:37	NPTx ON
	47:10-15	3 cars → S
	48:30-59	7 cars → S
	51:10-16	4 cars → S
	52:45-53	4 cars → S
	54:20-30	5 cars → S
	55:00	Weather: Slightly cloudier than earlier / light wind Traffic: 6-8 veh/min
	18:06:15-25	3 cars → S
	8:25-30	3 cars → S
	9:58	3 cars → S
	18:16:00	NPTx OFF
	24:00	Weather: Nearly complete cloud cover, 75° approx
	18:31:20	Stopped logging events

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Location Log

Rx Site No. R6 p1
Set: 1/

Site Name:

Date / Time:

9/03/99 17:20 EDT

Ft Lincoln Dr. / 3100

Operator:

JAW

GPS Receiver Reading at Site:

Lat: N 38° 55.605'

Time Read 2121

~~EDT~~
GMT

Lon: W 076° 57.556'

Elev: _____

Weather: OC-100% - moderate
85-90°F / light wind.

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

