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 Bannicker Dr **Rx Site No.** R4 **p1**
Set: 1/

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

Re: Tx Condx Ref. No. 1 Operator: Adwa

Data Measurements:

NPTx Carrier Freq. (GHz)	12.47	Disk Filename	—

(1) NP Signal – NPTx ON:

	NPTx	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 Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No. R4 **p2**
Set: 1/.

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

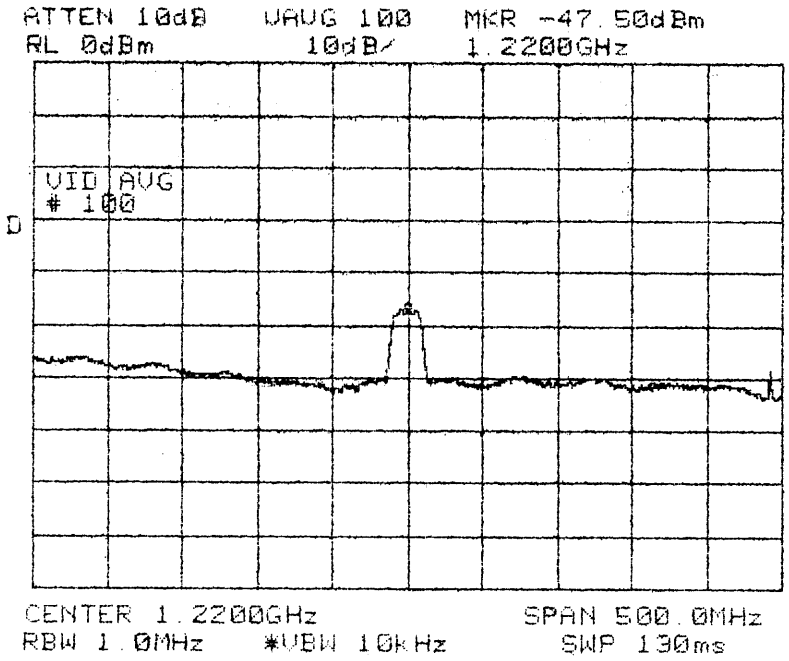
(3a) NPTx ON:

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

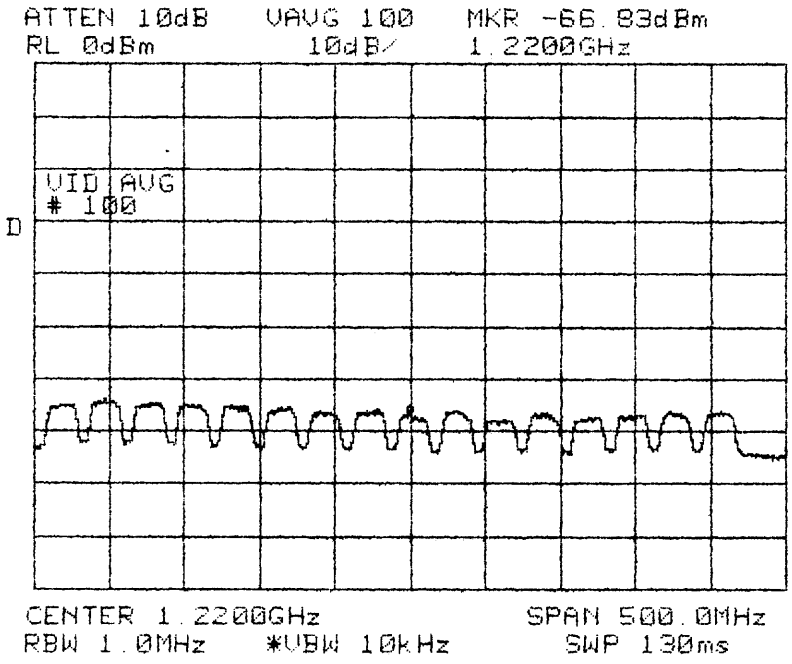
Legend // Comments:

NPTx – Northpoint Transmitter.

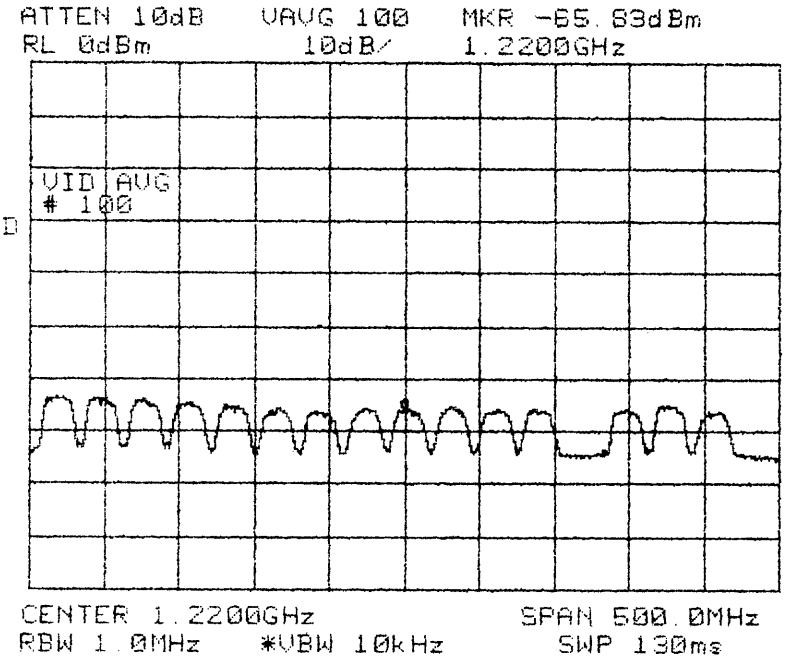
09/03/99
R4-1
Adura



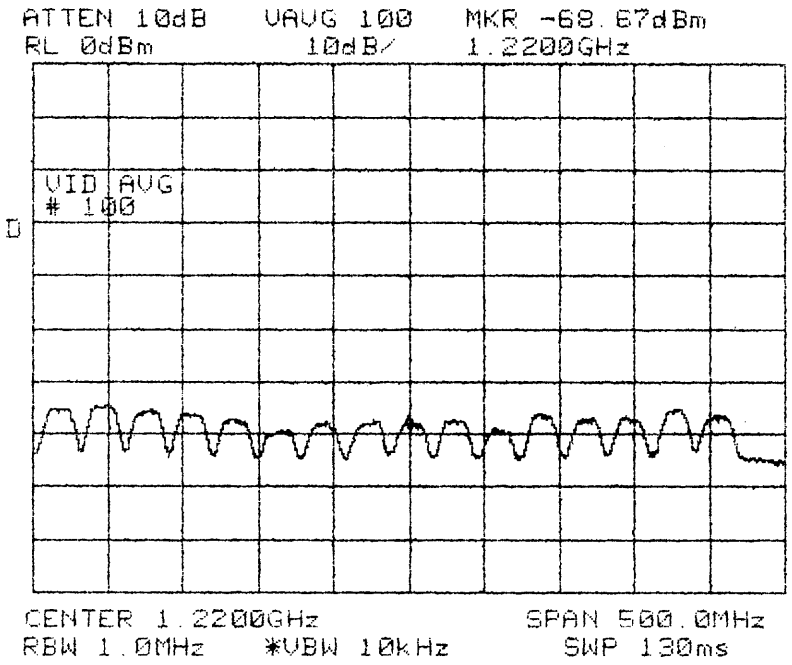
09/03/99
R4-26
Atten



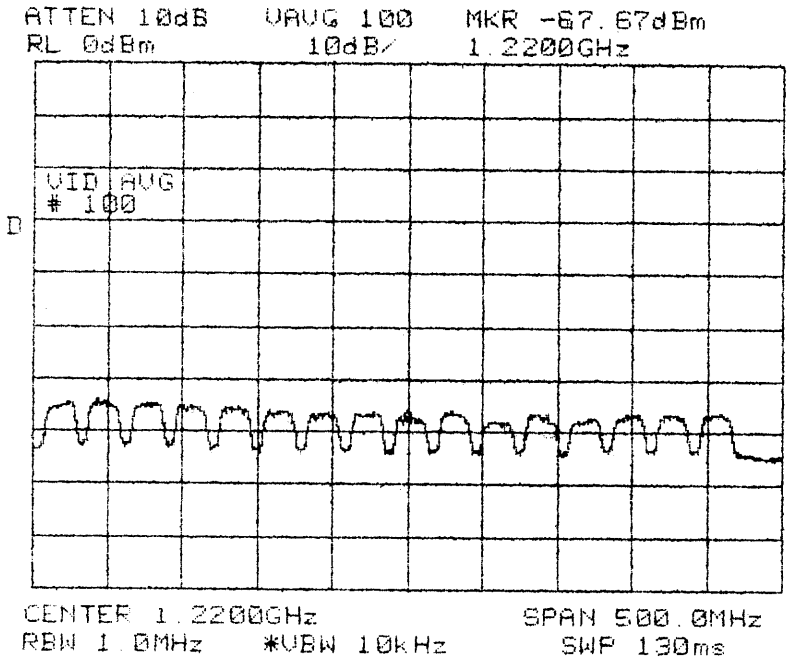
09/03/99
R4-2C
Azure



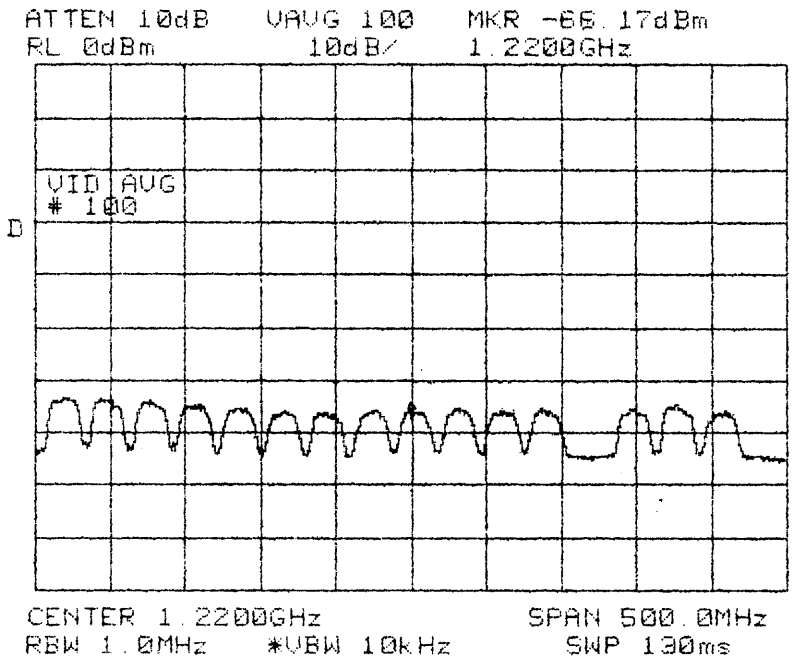
09/03/99
R4-2d
R-dwg



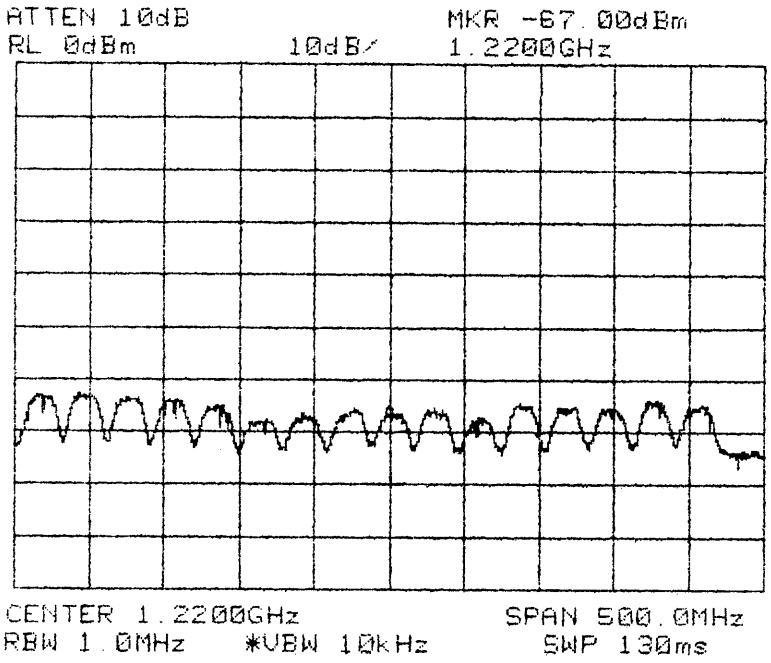
09/03/99
R4-36
Hdwg



09/03/99
R4-3C
Antenna



09/03/99
R4-3d
Kubra



Northpoint Technology – DBS Compatiblilty 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 / ___

Re: Rx Condx Ref. No. | 1 | Date / Time: 9/3/99 12:24pm EDT

Re: Tx Condx Ref. No. | 1 | Operator: Jonathan Jorhis

Data Measurements:

NPTx Carrier Freq. (GHz)	12.49	NTC Filename	bg 9-3-99.dat
Satellite Monitored	ES-1 9	Transponder	T- 18

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

Time is syncronized with computer's clock

#	Time – EDT	Condition / Event
	12:34:32 pm	weather - Mostly cloudy (75%) but still sunny Temp. 75 ~ 80°
		NPTx OFF
	12:46:00	Begin Logging Events
	46:14	Car -> N, Car -> S Banniker Dr
	130	Car -> N
	47:20	2 Cars -> N
	48:10	Car -> N
	: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
	1:00:50 pm	Car -> S
	2:20	2 Cars -> S
	1:10:48 pm	NPTx ON
	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	NPTx OFF
	44:03	Car -> S
DRW	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.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site 3D Pattern Log

Rx Site No. R4

Set: ___/___

Re: Rx Condx Ref. No. 1

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

Re: Tx Condx Ref. No. 1

Operator: Dan / Adam

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

Azim.	Elev.→	0	15	30	45	60	75	90	
0		No Reflections noted except for							
15		one very small signal which appeared							
30		is reflected from West wall of				3194	(see location log)		
45									
60									
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 singal with the Spectrum Analyzer, and anomalous signals of interest will be detailed in the related zone.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Location Log

Rx Site No. R4 p1

Set: 1 / ___

Site Name: Banniker Drive / 3194

Date / Time: 9/3/99 ___:___ EDT

Operator: Drew

GPS Receiver Reading at Site:

Time Read 1632 ~~EDT~~ GMT

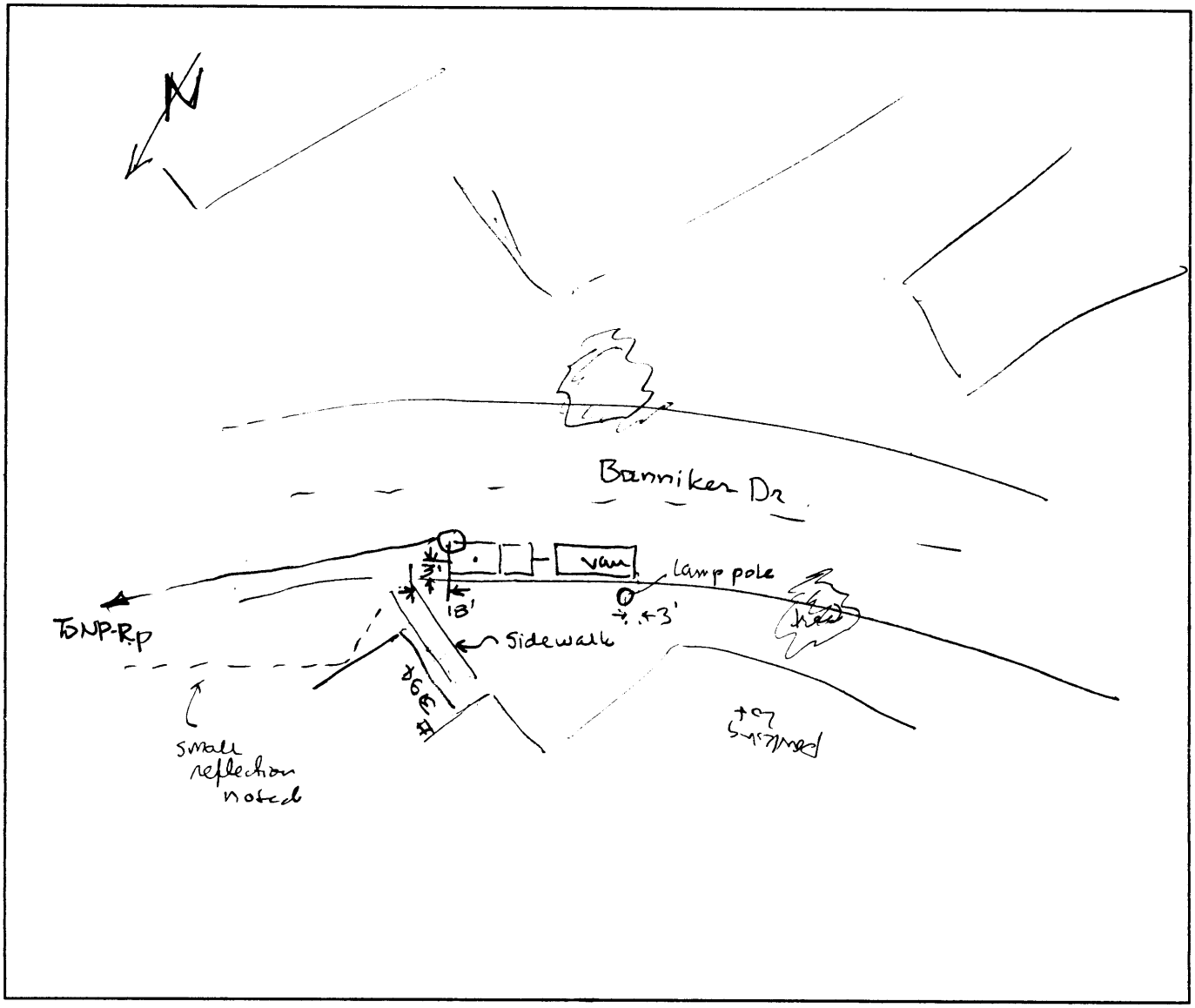
Lat: N 38° 55.570'

Lon: W 076° 57.710'

Elev: ___

Weather: PC-60% thin
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 Compatiblilty Test – Washington DC Area

Rx Site Data Log

Washington Overlook Apt. **Rx Site No.** R5 **p1**

Set: 1 1

Re: Rx Condx Ref. No. 1 Date / Time: 09/03/99 16:00 EDT

Re: Tx Condx Ref. No. 1 Operator: Admin

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: 1 / 1

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 Bldg (from behind)
can see parapet - at ~ eye level w/ Parapet roof.
Can't see Repeater Tx / Ant.

NO NP signal is seen. "Tweaker" peaks at ~ 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 Compatiblilty Test – Washington DC Area

Rx Site Location Log

Rx Site No. RS p1
Set: ___/___

Site Name: Washington Overlook / 3504

Date / Time: 9/10/99 3:56p EDT

Operator: [redacted]

GPS Receiver Reading at Site:
Time Read 1959 GMT ~~EDT~~

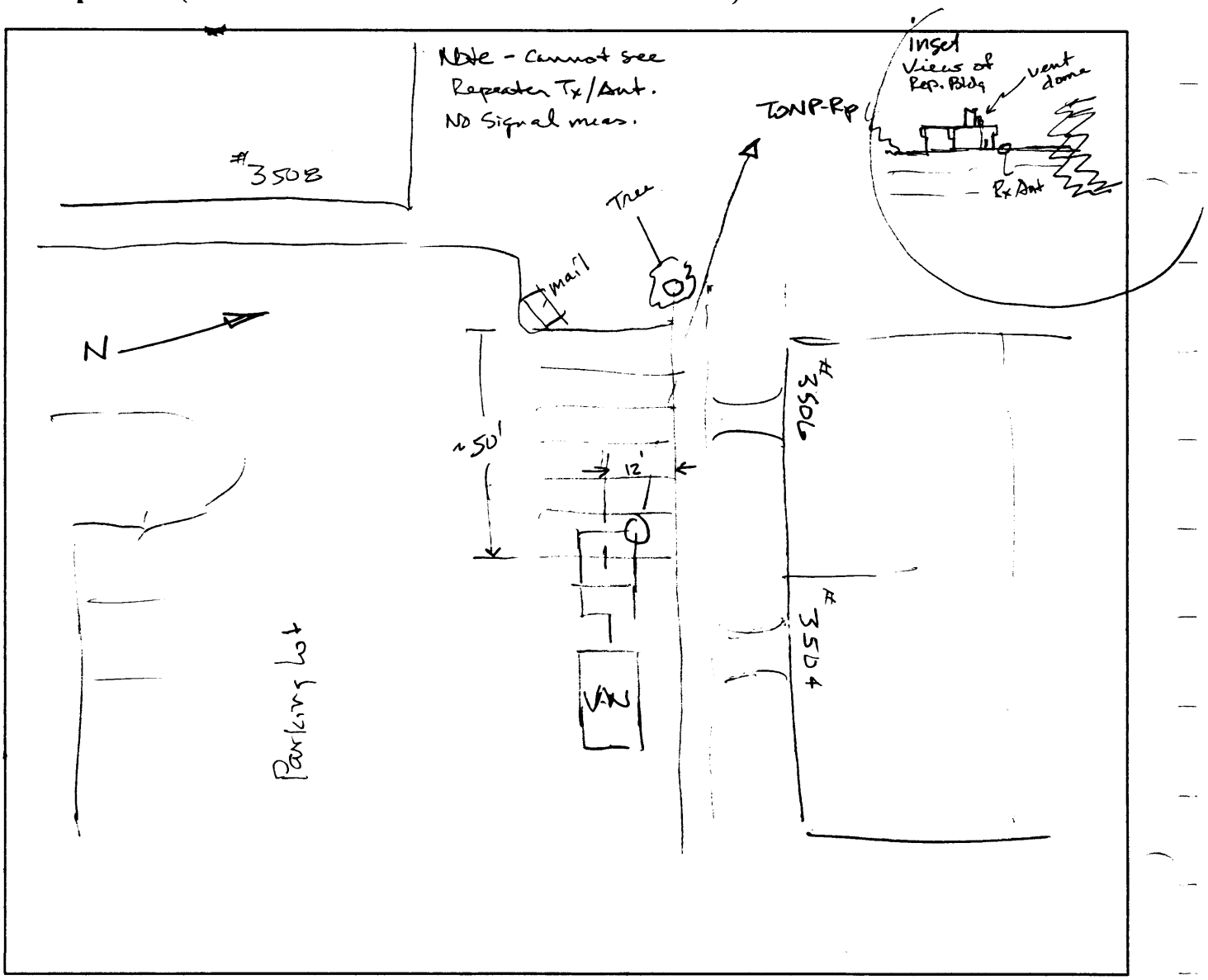
Lat: N 38° 55.674'

Lon: W076° 57.332'

Elev: ___

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

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



COMMENTS FROM SITE R6

Site R6 Fort Lincoln Drive (Washington DC)

Date: September 3, 1999
Weather Conditions:

Comments:

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Fork Lincoln 4c/3100 Rx Site No. R6 p1
Set: 1 /

Re: Rx Condx Ref. No. 1 Date / Time: 09/08/99 16:45 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: DBS 1			
Power (Px)	-43.17dB	TV Pix	91	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

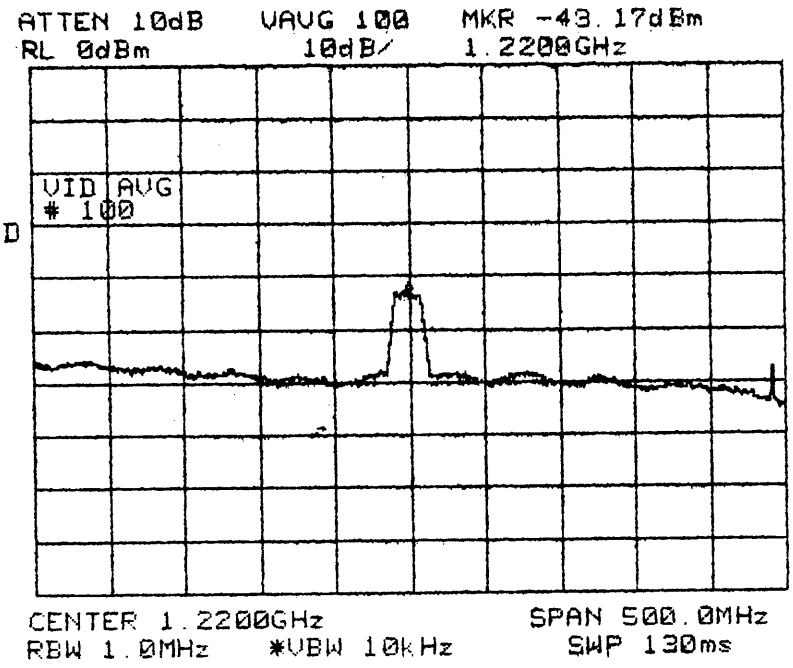
(3a) NPTx ON:

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

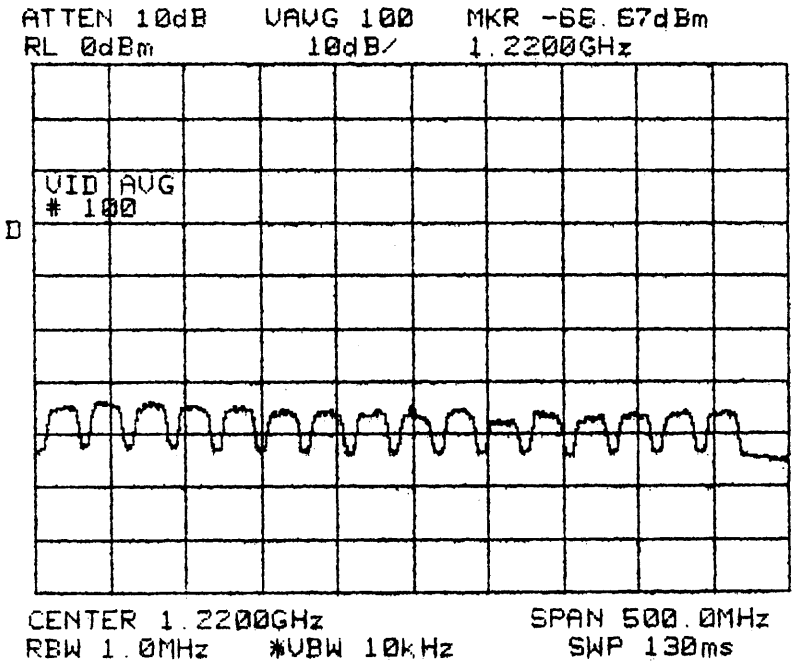
Legend // Comments:

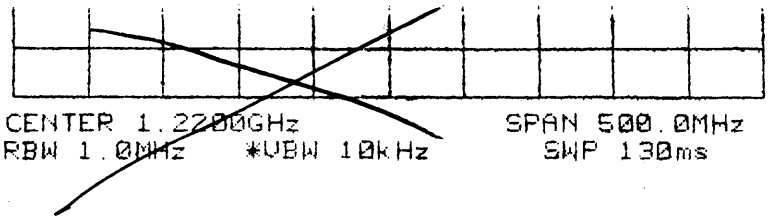
NPTx – Northpoint Transmitter.

09/03/99
R6-1
Adevq

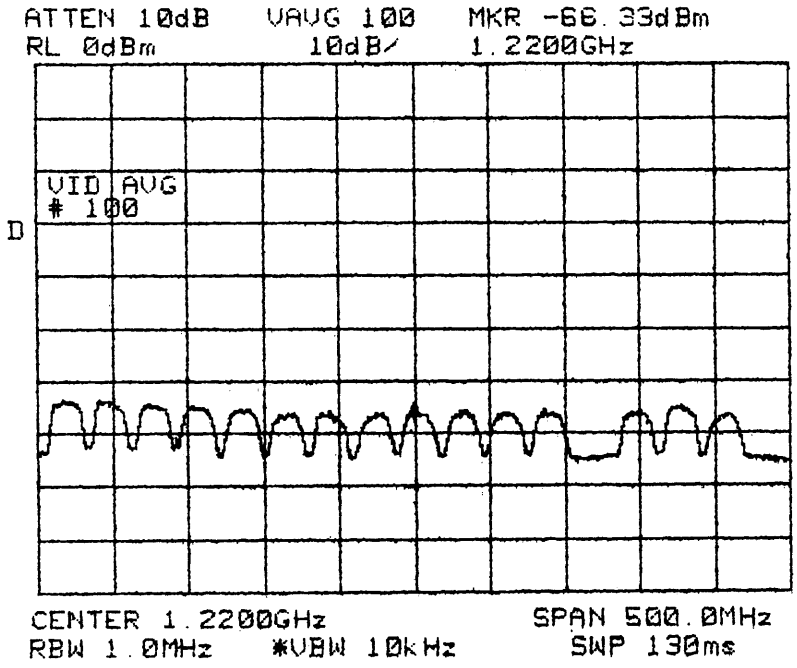


09/03/99
R6-2b
Adura

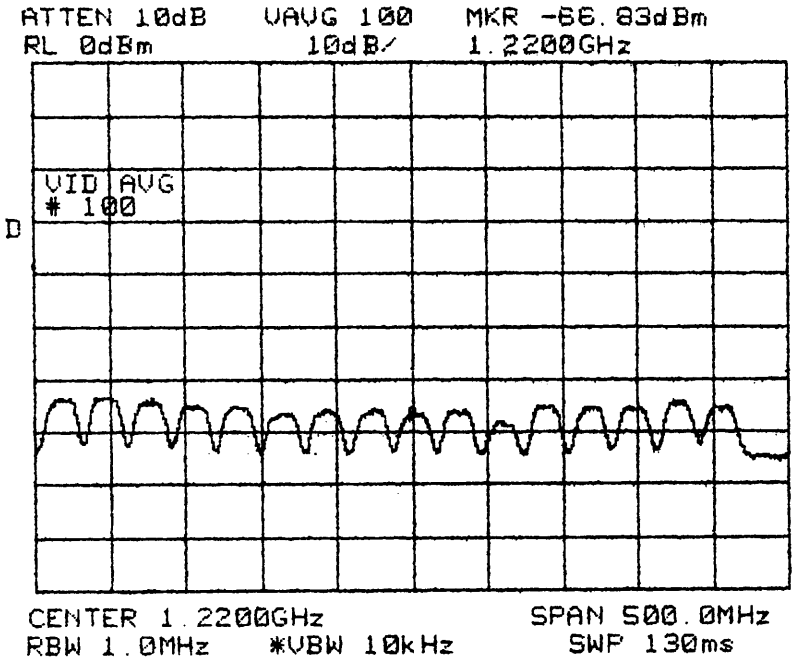


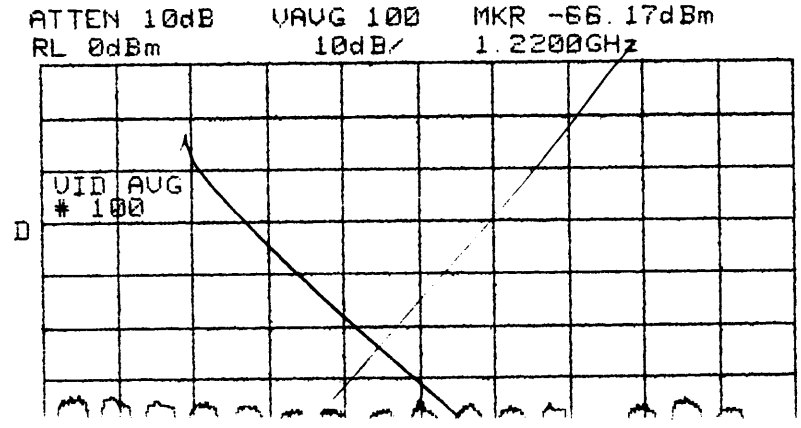


09/03/99
R6-2C
Adura



09/03/99
R6-2d
Adura

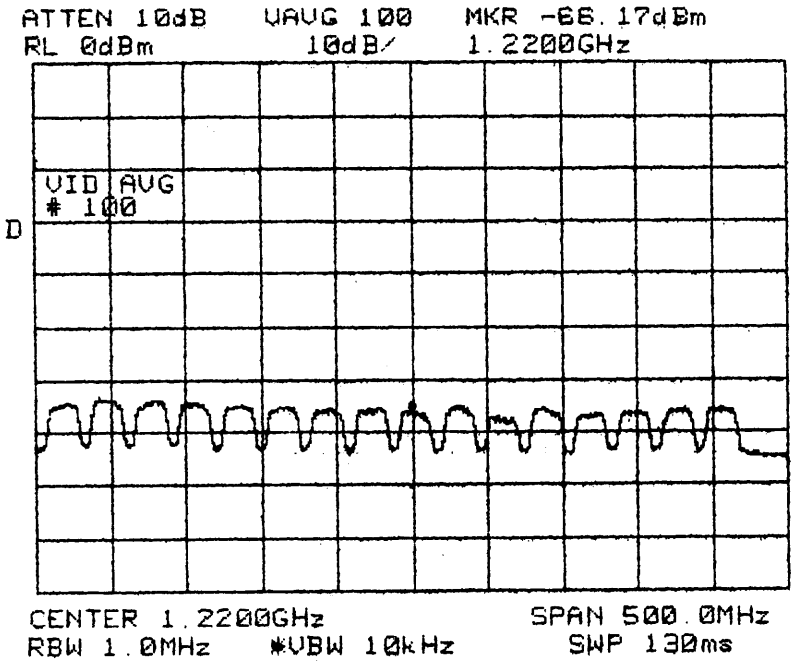




09/03/99

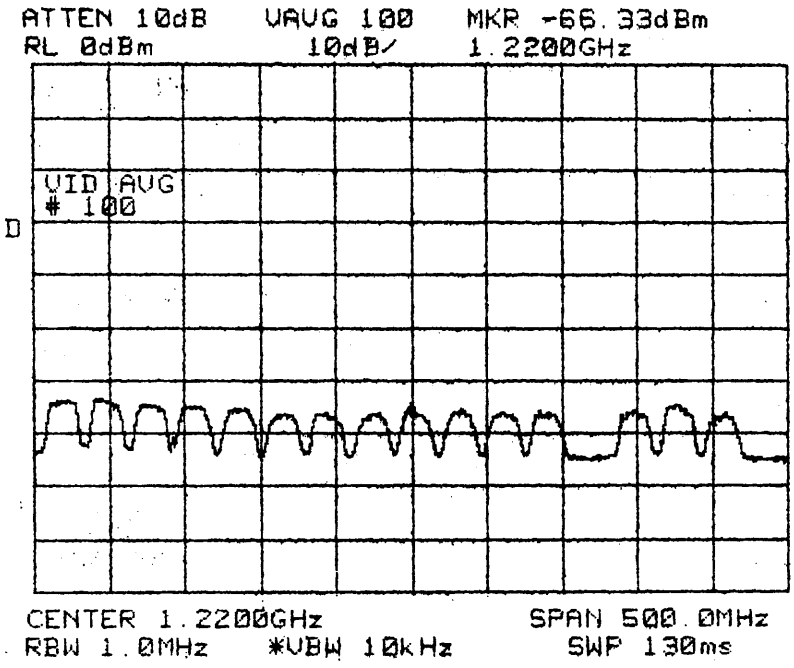
R6-36

Adura

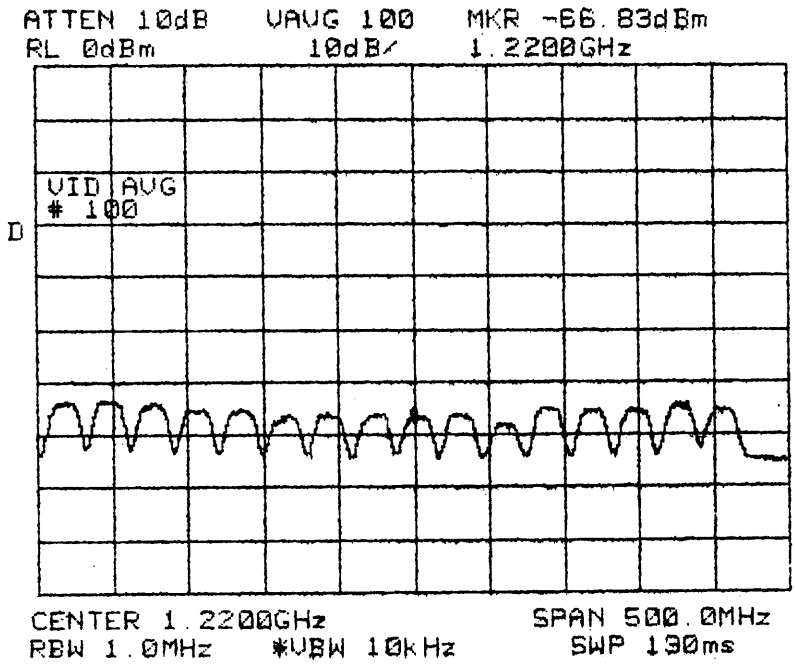


09/03/99
R6-3C

Adura



09/03/99
R6-3d
Adura



Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Condx/Event Log -- BER Data

Rx Site No. R6 p1

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

Ft Lincoln Dr. / 3100

Set: 1 1

Re: Rx Condx Ref. No. 1 Date / Time: 9/03/99 17:22 EDT

Re: Tx Condx Ref. No. 1 Operator: Dan / Adam

Data Measurements:

NPTx Carrier Freq. (GHz)	12.17	NTC Filename	log 9-3-99.dat
Satellite Monitored	ES119	Transponder	T-18

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

NPTx → NSRp (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 (canopy 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 Compatiblilty Test – Washington DC Area

Rx Site Location Log

Rx Site No. R6 **p1**
Set: 1 /

Site Name: Ft Lincoln Dr. / 3100

Date / Time: 9/03/99 17:20 EDT

Operator: [signature]

GPS Receiver Reading at Site:
Time Read 2121 ~~EDT~~ GMT

Lat: N 38° 55.605'
Lon: W 076° 57.556'
Elev: _____

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

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