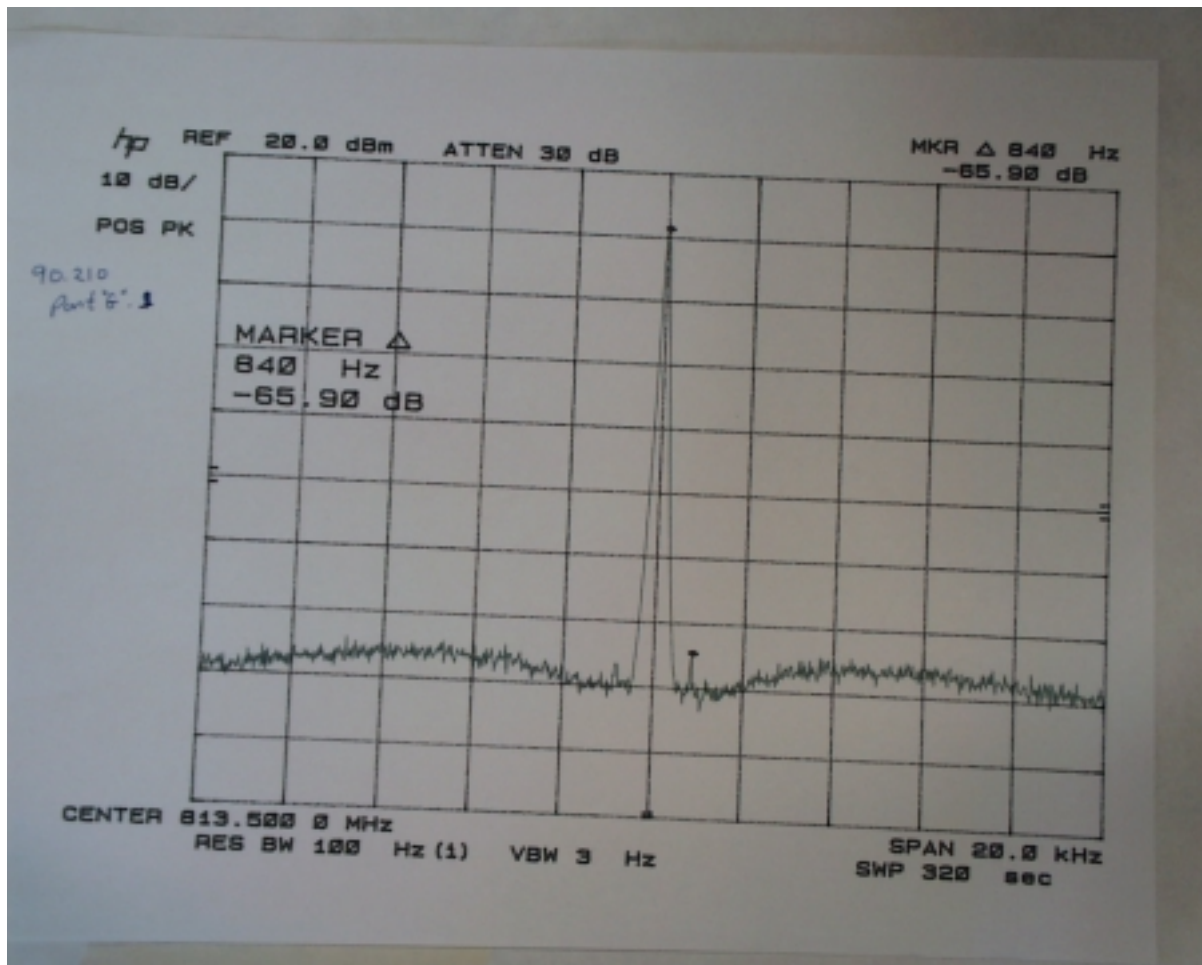


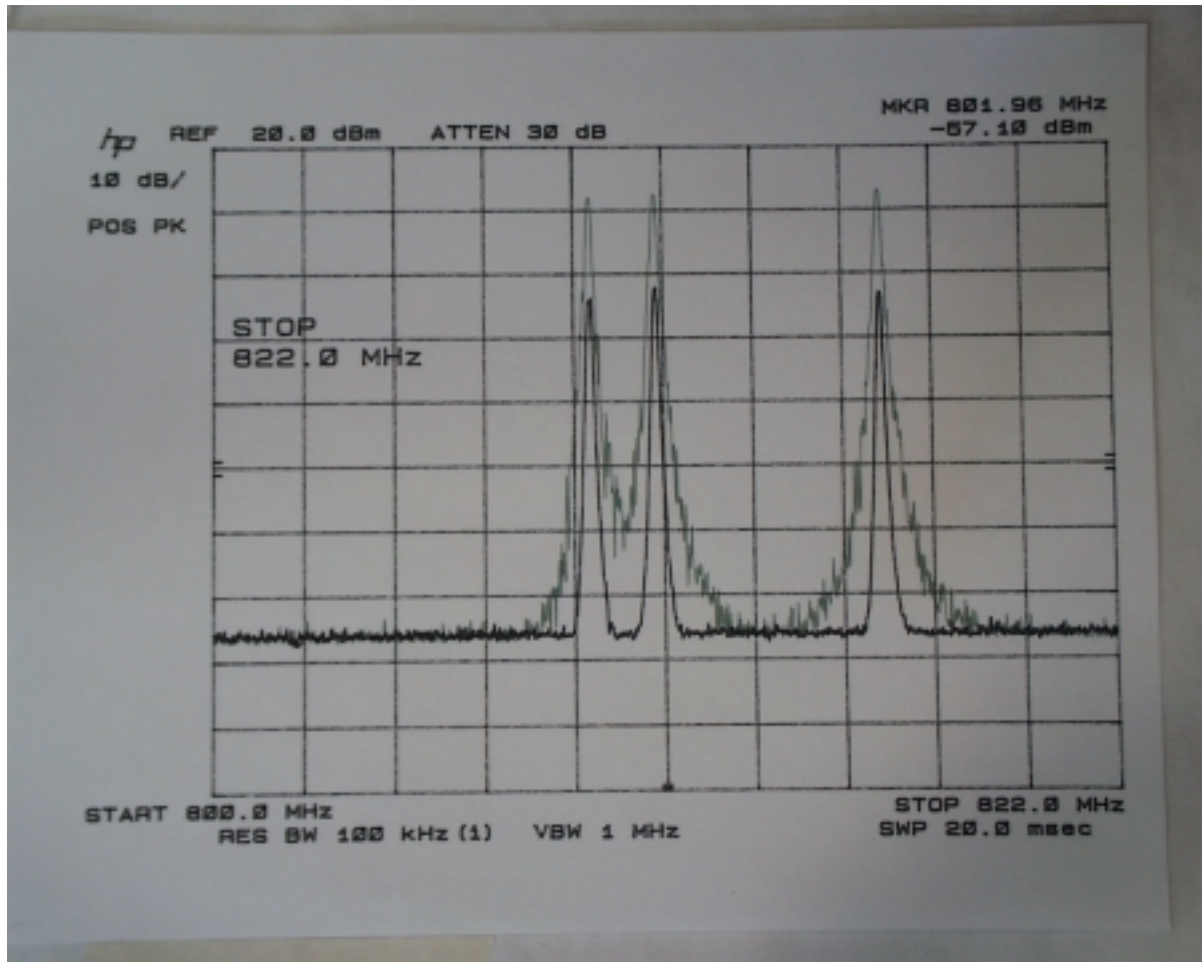
**BST301 Truncking Booster
Sample 1758**

**Input -8.1 dBm
Output 12.4 dBm
Gain output plus cable loss = 22.3 dB
MID BAND**



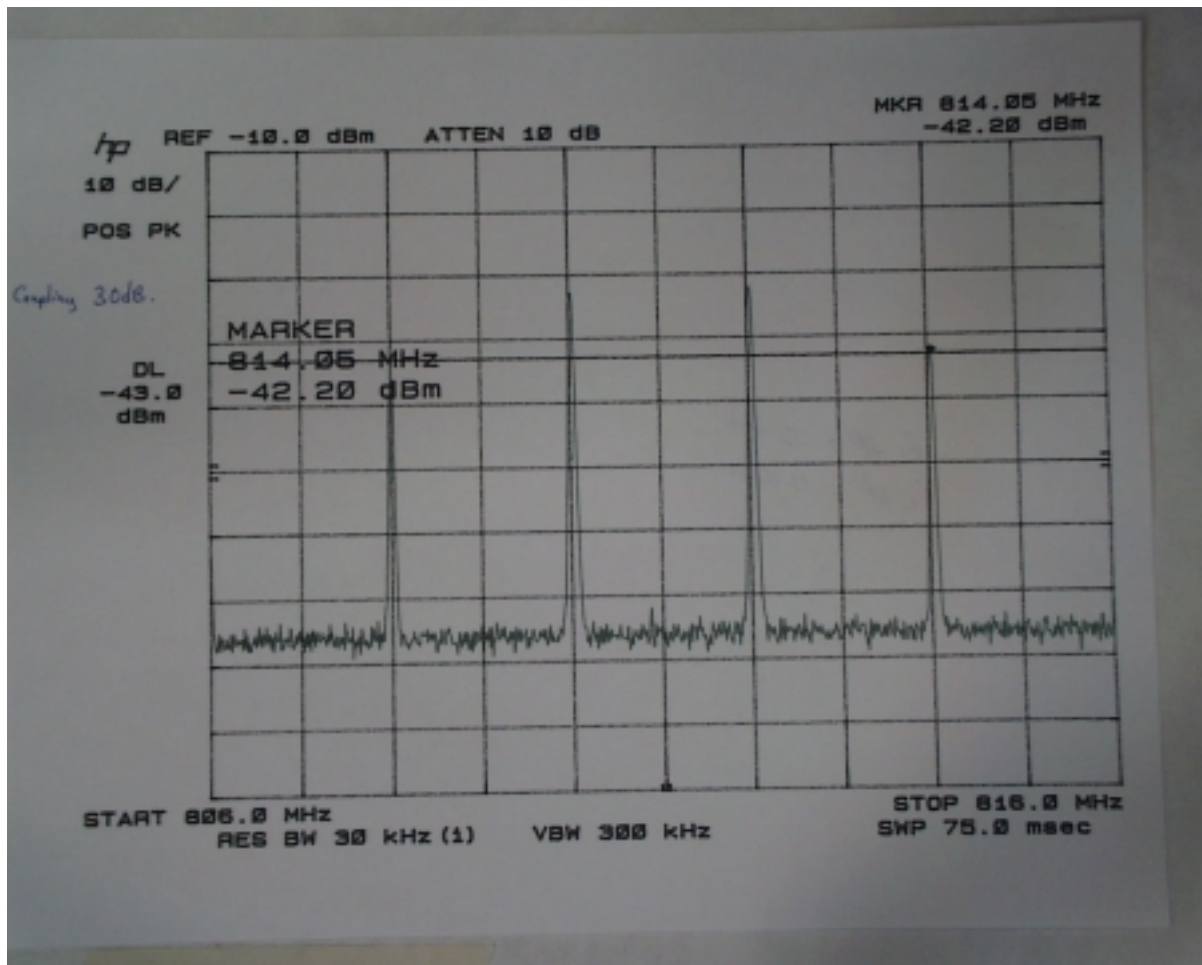
**BST301 Truncking Booster
Sample 1758**

**FCC 90.210
Part G Emission Mask G**



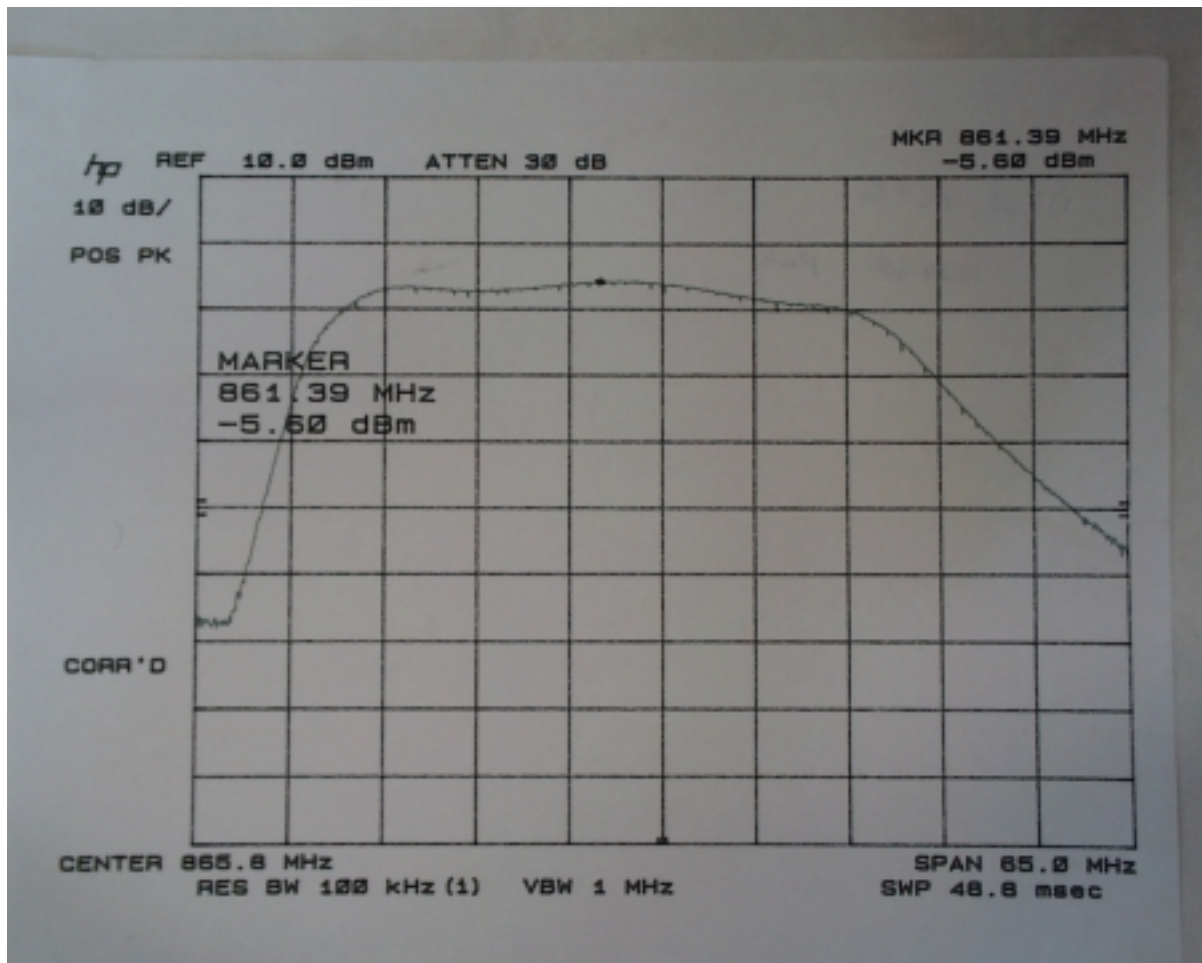
**BST301 Truncking Booster
Sample 1758**

iDEN Signaling Characteristics



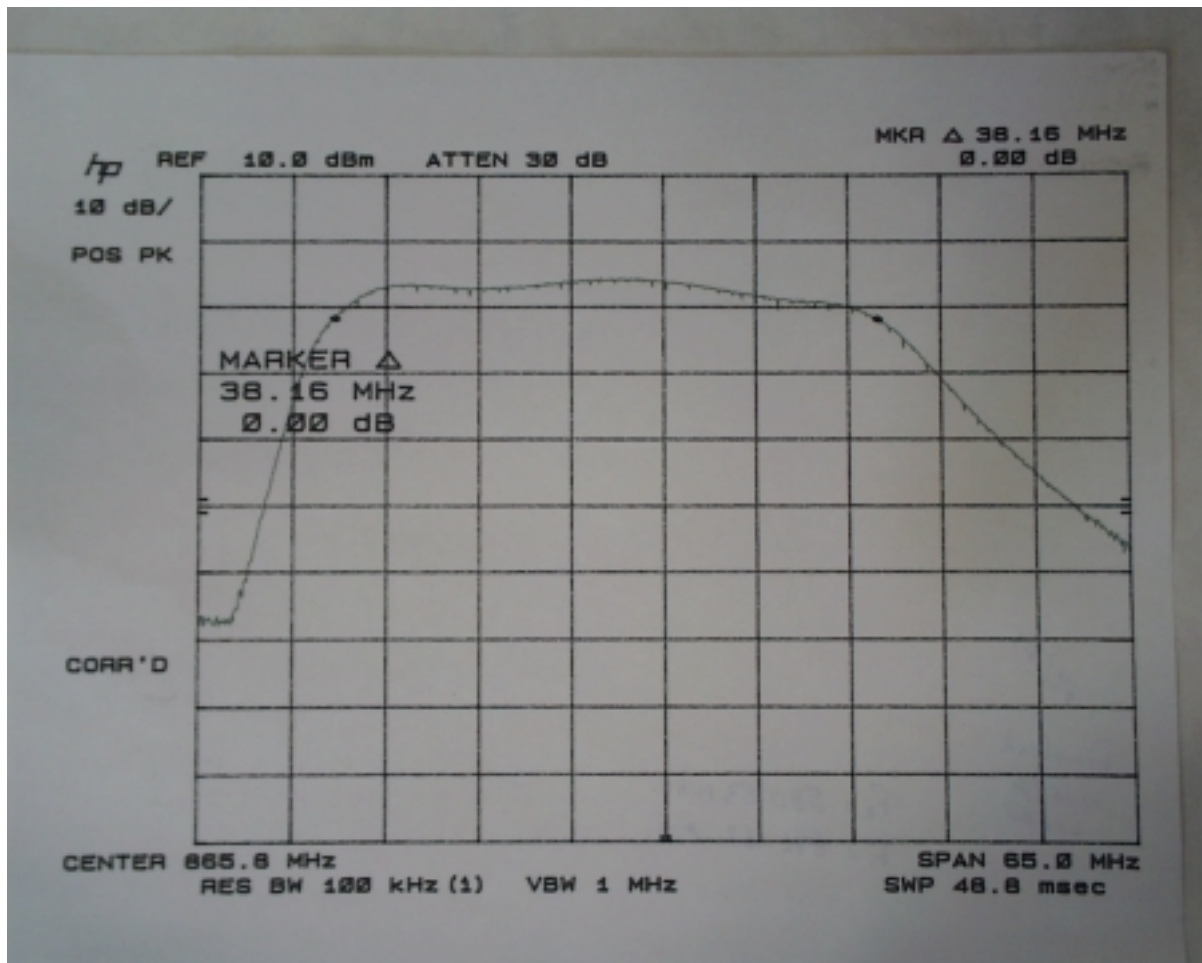
**BST301 Truncking Booster
Sample 1758**

**Two Tone Intermodulation Products
Mid Passband**



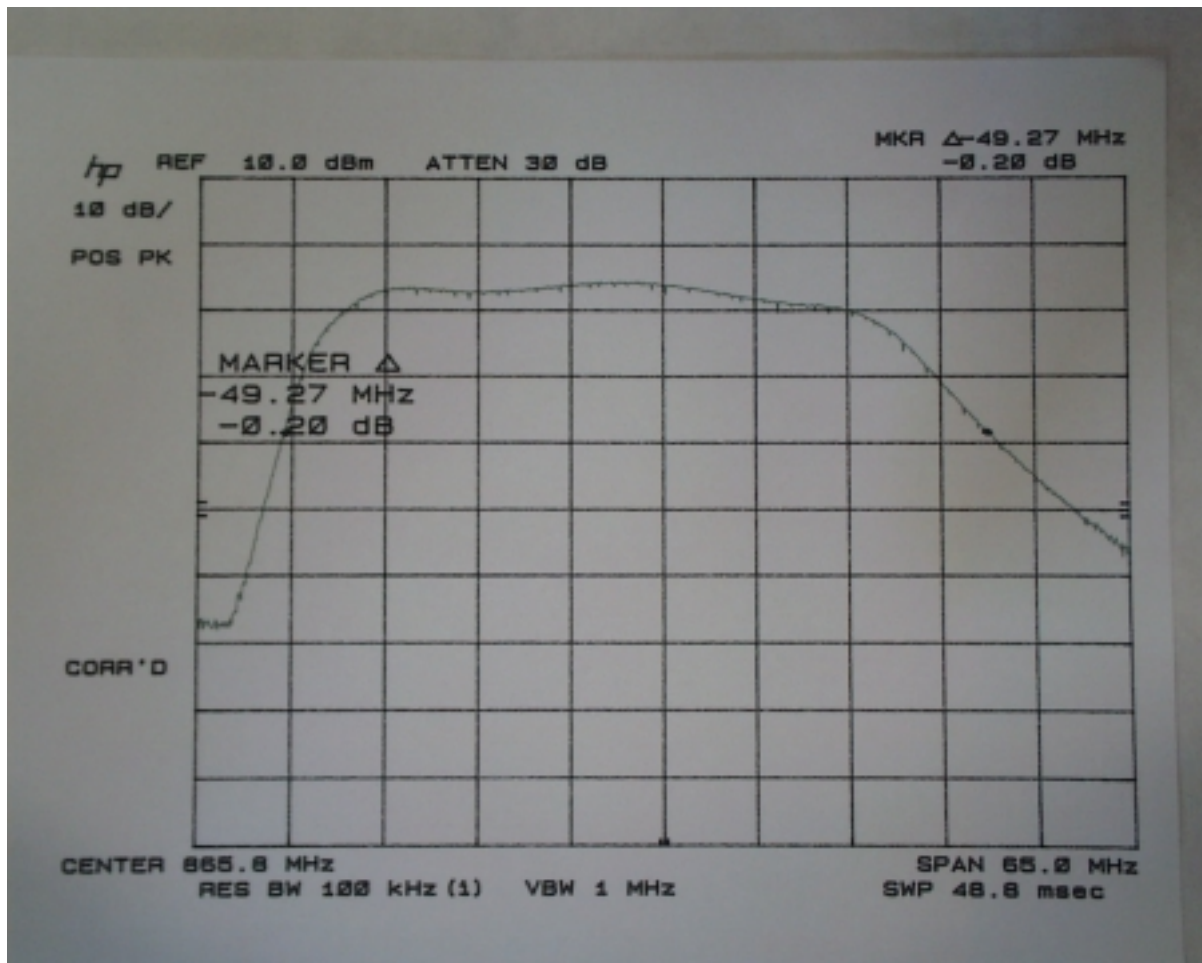
**BST301 Truncking Booster
Sample 1758**

Down Link Pass Band



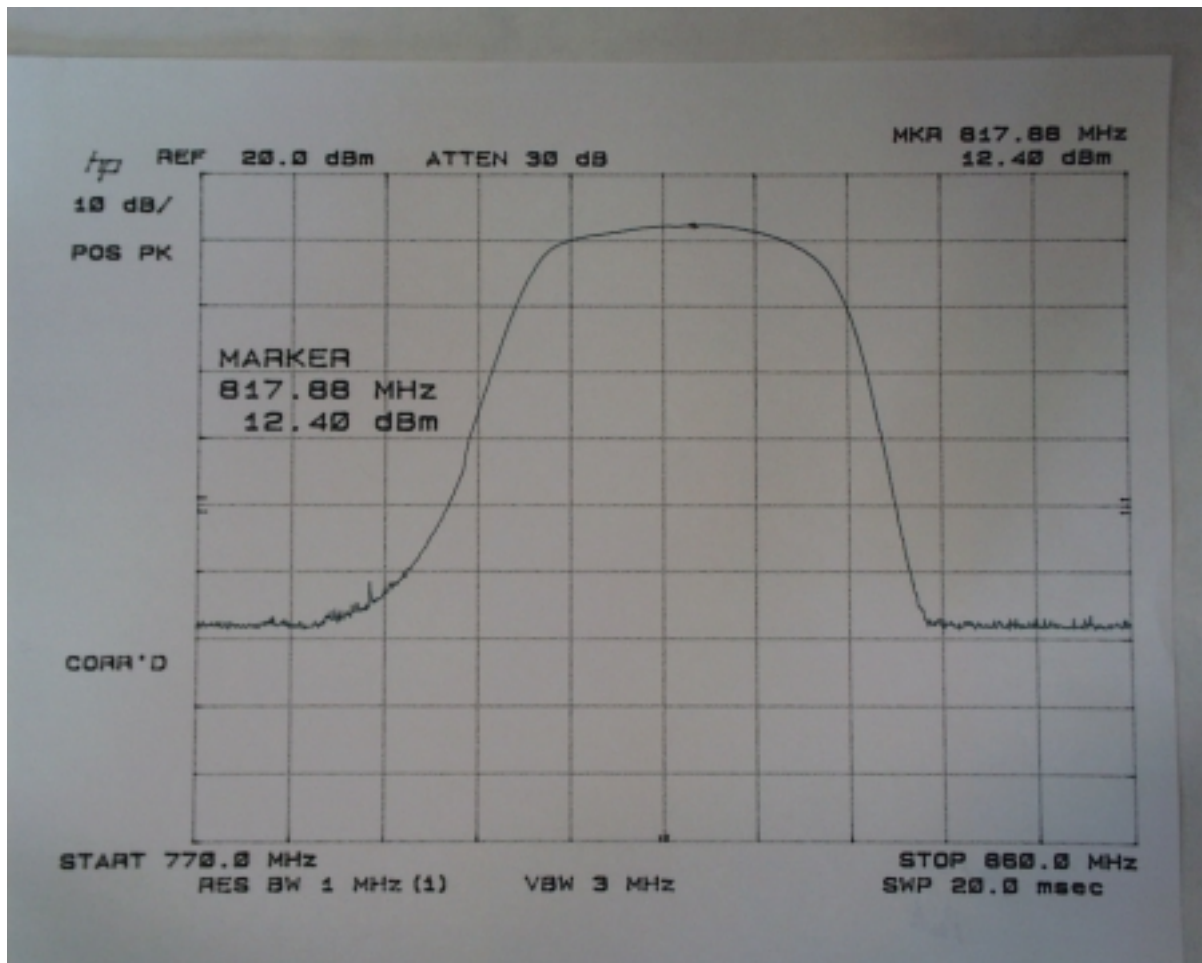
**BST301 Truncking Booster
Sample 1758**

**Down Link Pass Band
3 dB Band Width**



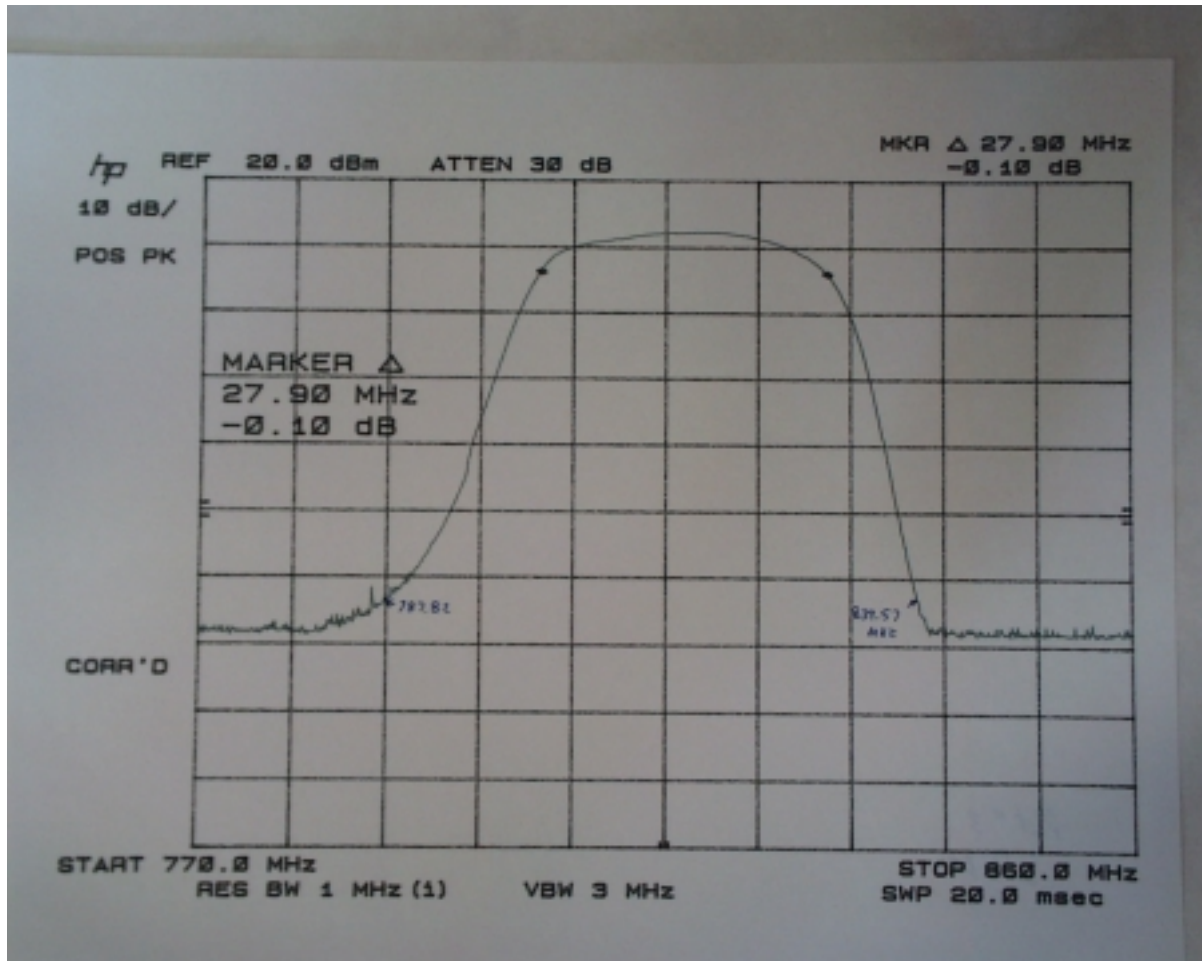
**BST301 Truncking Booster
Sample 1758**

**Down Link Pass Band
20 dB Band Width**



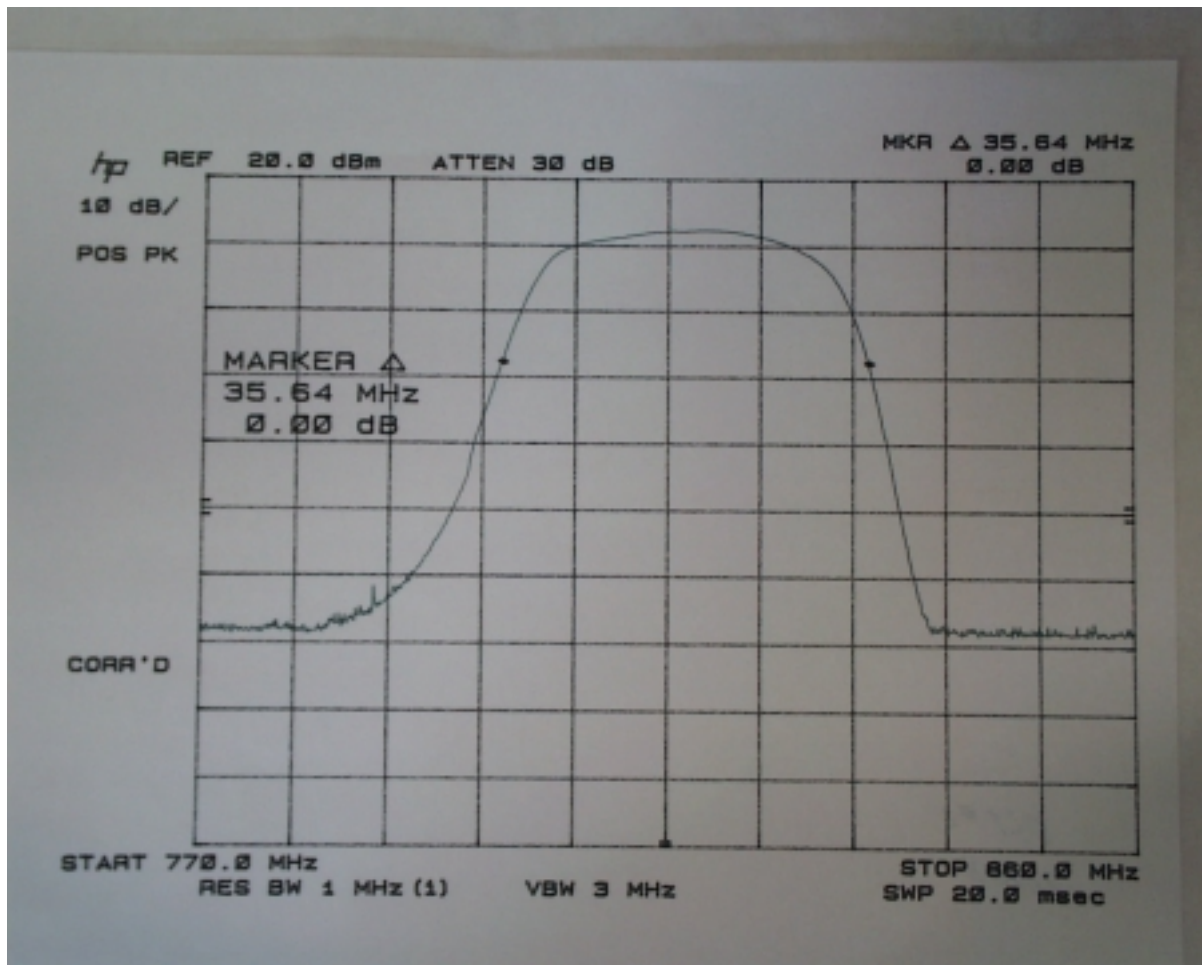
**BST301 Truncking Booster
Sample 1758**

**Up Link Pass Band
Center**



**BST301 Truncking Booster
Sample 1758**

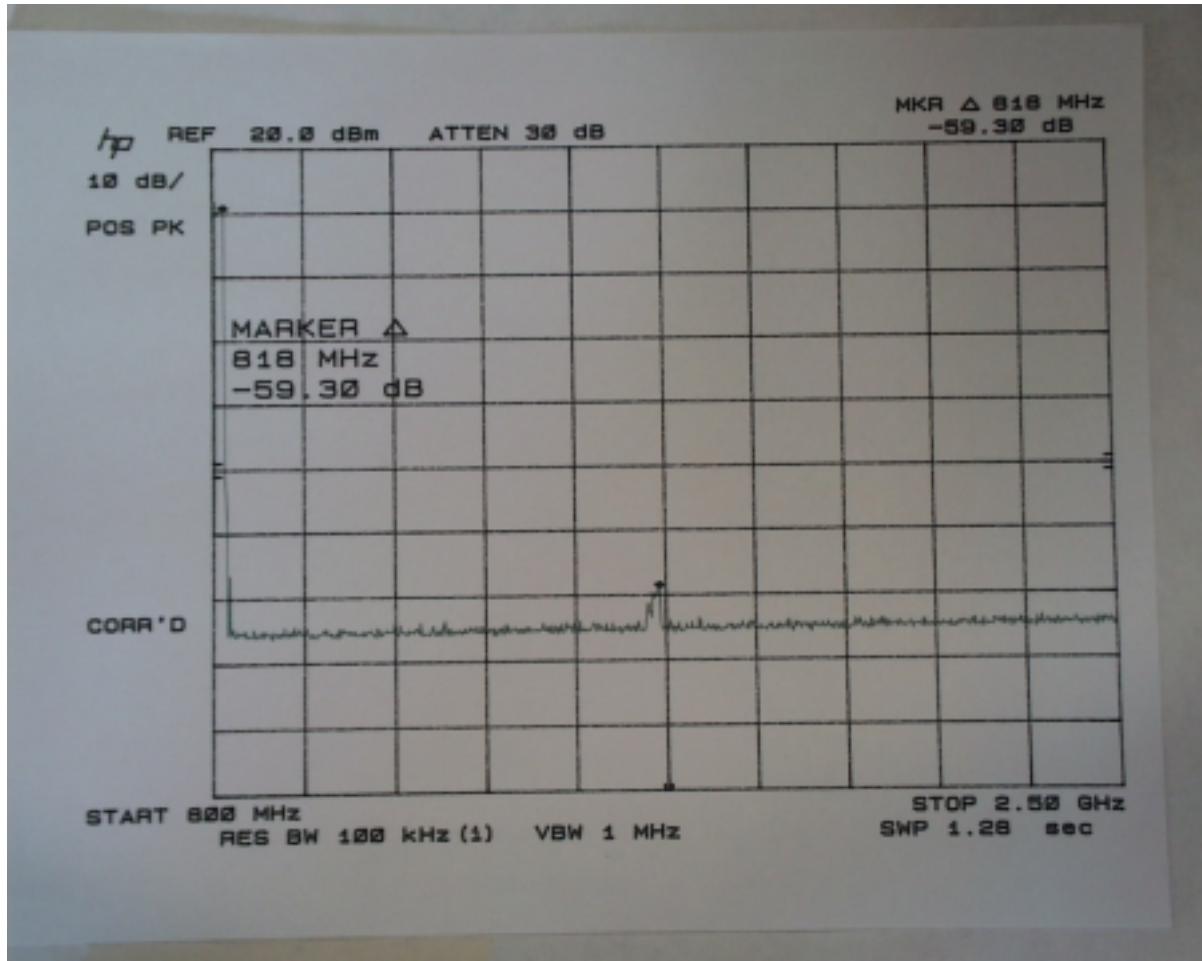
**Up Link Pass Band
3 dB Points**



**BST301 Truncking Booster
Sample 1758**

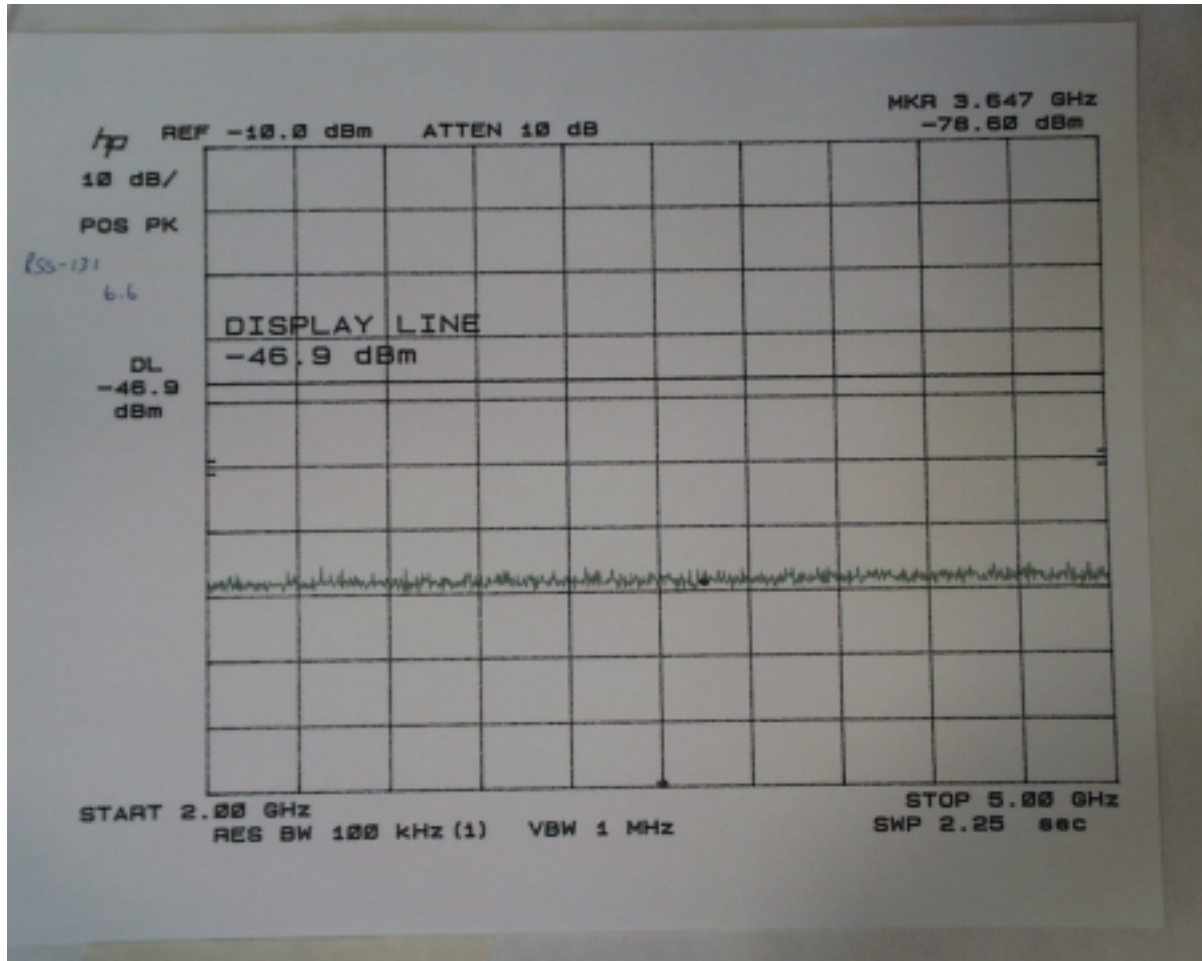
**Up Link Pass Band
20 dB Points**

TEST REPORT DATA				
Customer No: 208		MPBT No.: M34R2460	Test Date: Feb-, 2000	
TEST COMP./PART: SAMPLE 642	TEST DESCRIPTION: EMISSION LIMITATIONS FOR CELLULAR – SPURIOUS		TEST CRITERIA:	
MIL-SPECS./STDS.:	FCC PART 90, SUB I, SECTION 90.210, (G PART (3))		QUAL: ✓ ENG.:	
FACILITY: MPB TECHNOLOGIES INC.	TEST ENGINEER: D. BECK		INTERNAL:	
QA PERSONNEL:	OTHER: TEMP.: 21 C HUMIDITY: 20 %			
TEST PROCEDURES	DETAILS/DEVIATIONS	PASS	FAIL	INIT
	Attenuated from Mean Power Output by at least 60 dB or 43+10logP dB=58.34 dB	✓		D.B.
	2 nd Harmonic	✓		D.B.
	3 rd Harmonic	✓		D.B.
	4 th Harmonic	✓		D.B.
	5 th Harmonic	✓		D.B.
	6 th Harmonic	✓		D.B.
	7 th Harmonic	✓		D.B.
	8 th Harmonic	✓		D.B.
	9 th Harmonic	✓		D.B.
	10 th Harmonic	✓		D.B.
MPBT: D. BECK	CUSTOMER: M.C.T. INC.		5 OF 6	



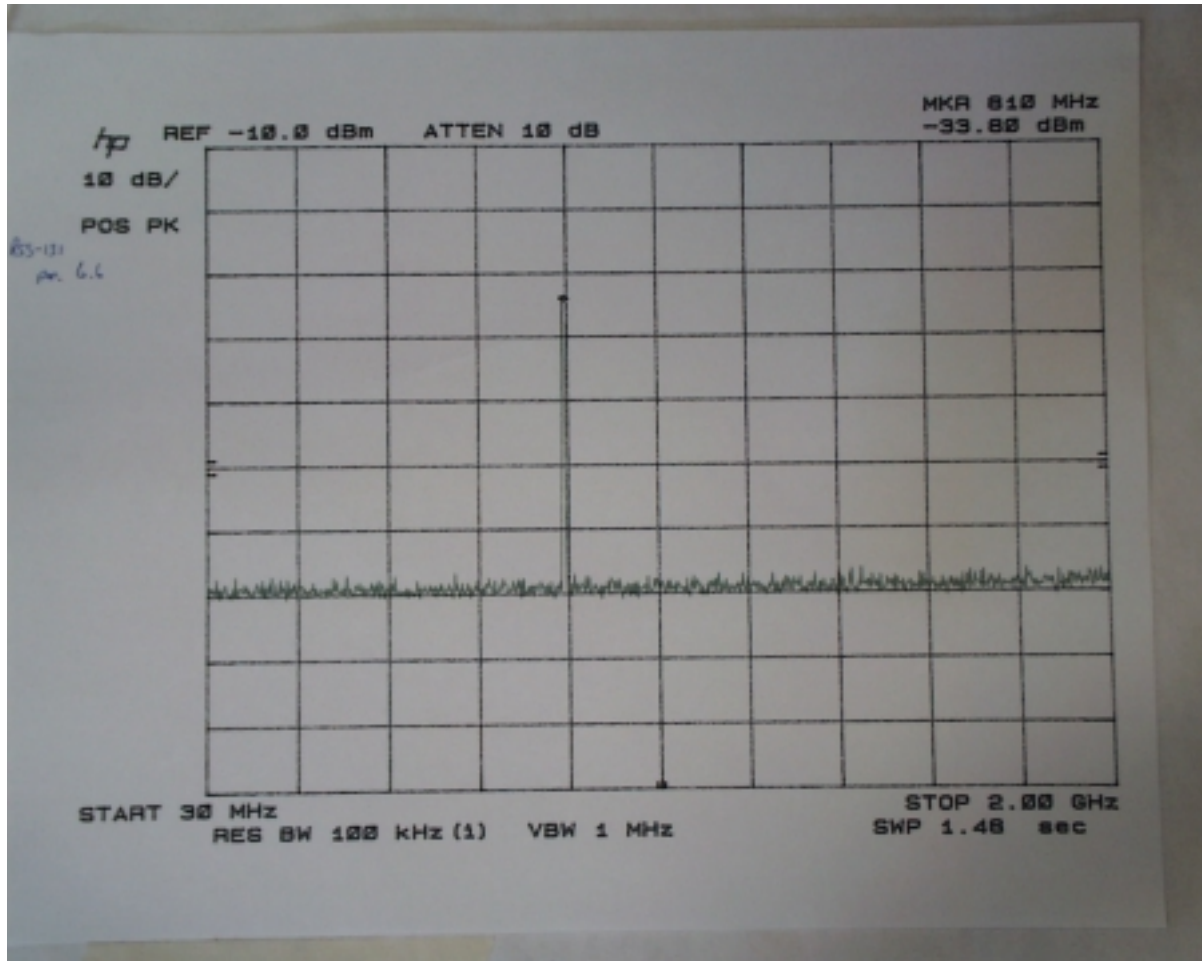
**BST301 Truncking Booster
Sample 1758**

**FCC 90.210
Part G Emission Mask G**



**BST301 Truncking Booster
Sample 1758**

**FCC 90.210
Part G Emission Mask G**

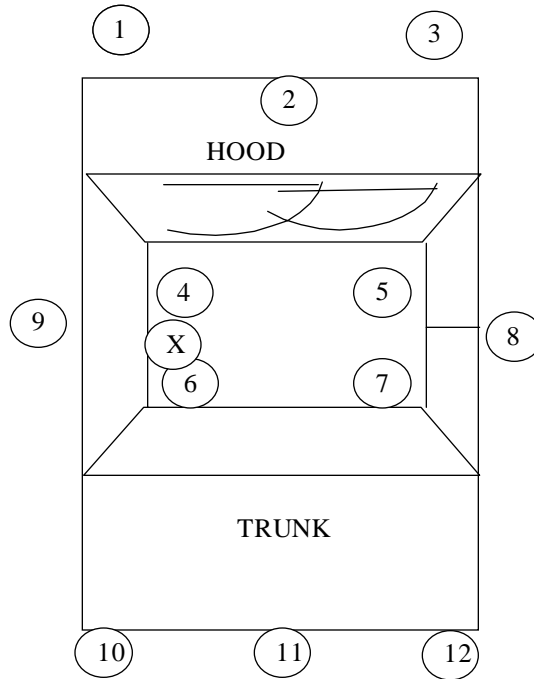


**BST301 Truncking Booster
Sample 1758**

**FCC 90.210
Part G Emission Mask G**

TEST REPORT DATA				
Customer No: 1129		MPBT No.: M34R2460		Test Date: February 8, 2001
TEST COMP./PART: SAMPLE 642	TEST DESCRIPTION: MAXIMUM PERMISSIBLE EXPOSURE			TEST CRITERIA: GENERAL EXPOSURE LIMITS
MIL-SPECS./STDS.:	FCC PART 1 SUBPART I, SECTION 1.1310			QUAL ✓ ENG.:
FACILITY: MPB TECHNOLOGIES INC.	TEST ENGINEER: D. BECK			INTERNAL:
QA PERSONNEL:	OTHER: TEMP.: 15 C HUMIDITY: 20%			
TEST PROCEDURES	DETAILS/DEVIATIONS	PASS	FAIL	INIT
FCC Part 1 Subpart I	Frequency mW/cm ²			
Section 1.1310				
	0.3 – 1.34 (100)			
	1.24 – 30 (180/f ²)			
	30-300 0.2			
	300-1500 f/1500 = 0.550 mW/cm² or 27.4dBm/cm²	✓		D.B.
	1500-10000 1			
	Note: Points and respective readings shown on next page. Averaging time is 30 minutes.			
	f = 806 (Lowest Tx Frequency)			
	Limit = 27.4			
	NOTE: Cable loss = 3.6 dB at test frequency			
	Amplifier output : 3.0 watts or 34.77 dBm			
	With a cable loss of 3.6dB, drive power into antenna is 1.09 watts or 30.08 dBm			
MPBT: D. BECK	CUSTOMER: M.C.T. INC.		6 OF 6	

Antenna – , Model SEM 105 mm , (5dBi)



Point	Reading (V/m)	INT./EXT.
1	6.4	EXT.
2	5.4	EXT.
3	4.8	EXT.
4 – HEAD	22.2	INT.
5 – HEAD	22.8	INT.
6 – HEAD	24.1	INT.
7 – HEAD	19.4	INT.
4 – PELVIC	18.2	INT.
5 – PELVIC	12.6	INT.
6 – PELVIC	20.6	INT.
7 – PELVIC	13.8	INT.
8	8.2	EXT.
9	28.0	EXT.
10	8.4	EXT.
11	9.0	EXT.
12	5.6	EXT.

NOTE: “X” REFERS TO POSITION OF ANTENNA. VEHICLE: NISSAN PATHFINDER.

POINT 9 (WORST CASE) WAS ACHIEVED AT 30 CM FROM ANTENNA.

$$\text{Limit} = 27.4 \text{ dBm/cm}^2$$

$$\text{Max Output} = 28.0\text{V/m} = 0.208\text{mW/cm}^2$$

The EUT complies with maximum permissible exposure requirements.



Maximum Permissible Exposure

**BST301 Truncking Booster
Sample 1758**

Appendix C

TEST EQUIPMENT REPORT

Radiated Emissions

Asset	Characteristics	Manufacturer	Model #	Serial #	Cal Date	Cal Due Date
4281	Biconilog Antenna	Antenna Research	LPB-2520/A	1048	Dec 30, 2000	Dec 30, 2001
4989	Spectrum Analyzer	Hewlett Packard	8566B/462	2747A05263	Dec 30, 2000	Dec 30, 2001
4990	Quasi Peak Adapter	Hewlett Packard	85650A	2521A00815	Dec 30, 2000	Dec 30, 2001
4529	Mast/Antenna Control	Electro-Mechanics	1050C	1086	Monitored	Monitored
4861	Turn Table Control	Sunol	5C98V		Monitored	Monitored
5076	Software	Underwriters Laboratories	V2.05	MC106399N K07147	Monitored	Monitored

Conducted Emissions

Asset	Characteristics	Manufacturer	Model #	Serial #	Cal Date	Cal Due Date
4281	LISN	Solar	9250-50-R24	951316	Jul-28, 2000	Jul-28, 2001
4989	Spectrum Analyzer	Hewlett Packard	8566B/462	2747A05263	Dec 30, 2000	Dec 30, 2001
4990	Quasi Peak Adapter	Hewlett Packard	85650A	2521A00815	Dec 30, 2000	Dec 30, 2001
5076	Software	Underwriters Laboratories	V5.0	MC106399N K07147	Monitored	Monitored

Maximum Power/Harmonics/Spurious/Environmental

Asset	Characteristics	Manufacturer	Model #	Serial #	Cal Date	Cal Due Date
002345	Field Probe Set	Amplifier Research	FP 2000	12439	Jul 30, 2000	Jul 30, 2001
002831	Spectrum Analyzer	Advantest	R4136	71220067	Dec 29, 2000	Dec 29, 2001
002430	Bi-directional Coupler	Werlatone	03414	4341	Jul 4, 2000	Jul 4, 2001
112997 0-0	TDMA CDMA Sig Gen	HP	HP/E4433B	US33840867	Aug-23,2000	Aug-23,2001
003736	Signal Generator	Marconi Instruments	2022A	119062	Jul 21, 2000	Jul 21, 2001

Appendix D

PHOTOGRAPHS



Representing Set Up and Maximized Emissions



Conducted Emissions



BST301 with iDEN Phone

Appendix E

SUPPLEMENTARY DATA

TEST REPORT DATA				
Customer No: 208		MPBT No.: M34R2460	Test Date: February 14, 2001	
TEST COMP./PART:	TEST DESCRIPTION: ENVIRONMENTAL CONDITIONS		TEST CRITERIA:	
MIL-SPECS./STDS.:	RSS 118 SECTION 8.1.2		QUAL ENG.: ✓	
FACILITY: MPB TECHNOLOGIES INC.	TEST ENGINEER: B. WATERHOUSE		INTERNAL:	
QA PERSONNEL:	OTHER: TEMP.: AS SPECIFIED HUMIDITY: 10%-40%			
TEST PROCEDURES	DETAILS/DEVIATIONS	PASS	FAIL	INIT
	+ 60 C @ 13.2 V (110%)	✓		B.W.
	+ 60 C @ 12.0 V (100%)	✓		B.W.
	+ 60 C @ 10.8 V (90%)	✓		B.W.
	+ 60 C @ 9.6 V (80%)	✓		B.W.
	+ 25 C @ 13.2 V (110%)	✓		B.W.
	+ 25 C @ 12.0 V (100%)	✓		B.W.
	+ 25 C @ 10.8 V (90%)	✓		B.W.
	+ 25 C @ 9.6 V (80%)	✓		B.W.
	-30 C @ 13.2 V (110%)	✓		B.W.
	-30 C @ 12.0 V (100%)	✓		B.W.
	-30 C @ 10.8 V (90%)	✓		B.W.
	-30 C @ 9.6 V (80%)	✓		B.W.
	Notes: The EUT must stay within +2dB to -4dB of it's measured output power at 25 C, with 100% voltage.			
MPBT: D. ZANETTE.	CUSTOMER: M.C.T. INC.		6 OF 6	