

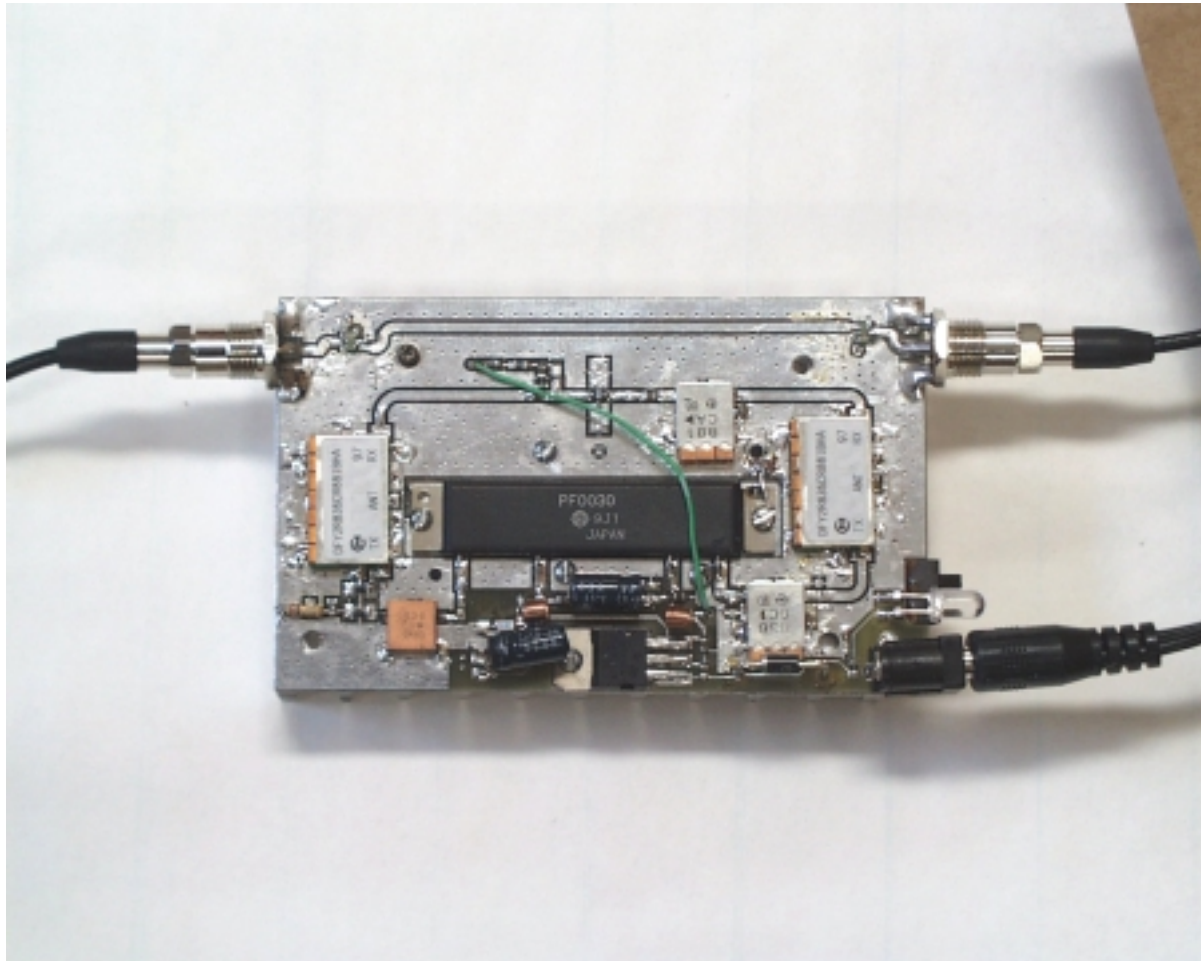
TEST REPORT DATA				
Customer No: 208		MPBT No.: M34R2460	Test Date: Feb-15-2001	
TEST COMP./PART: SAMPLE 1758	TEST DESCRIPTION: E.R.P LIMIT		TEST CRITERIA:	
MIL-SPECS./STDS.:	FCC PART 90, SECTION 90.219		QUAL ✓ ENG.:	
FACILITY: MPB TECHNOLOGIES INC.	TEST ENGINEER: D. BECK		INTERNAL:	
QA PERSONNEL:	OTHER: TEMP.: 21 C HUMIDITY: 35 %			
TEST PROCEDURES	DETAILS/DEVIATIONS	PASS	FAIL	INIT
	The ERP proliferated by a system or sub-system shall not			
	exceed the limits for the specifications as stated.			
	3Watts	✓		D.B
	The maximum power output(s) measured shall be within	✓		D.B
	+ 2dB to 0dB of the manufacturer's rating(s) of RF			
	Power output.			
	Limit = 5 Watts Limit = 36.99 dBm Max Power = 34.77 dBm / 3.0Watts ERP: Power $_{AMP} - \text{Loss}_{Cable} + \text{Gain}_{Ant}$ ERP= 34.77dB-3.6dB+5dB= 36.17dBm or 4.14 Watts			
MPBT: D.B.	CUSTOMER: M.C.T. INC.	3 OF 6		

BST 301 TRUNCKING BOOSTER

Sample #1758					
	Signal Gen	Spec A	Losses*	Calculated	Gain
Frequency	RF Out (dBm)	Reading	(dB)	Out (dBm)	(dB)
		(dBm)			
806	10	-18.8	21.8	33.5	23.5
807	10	-18.6	21.8	33.7	23.7
813.5	10	-20.3	21.8	32	22
851	-13	-20	21.8	6	17.1
855	-13	-44.6	21.8	7.7	20.7
866	-13	-45.2	21.8	7.1	20.1
Note: *Losses Include Cable1 (0.9), Cable2 (0.9), Coupler (20),					
LOSSES= 21.8					
Signal Gen RF Out taken at 1dB compression point					

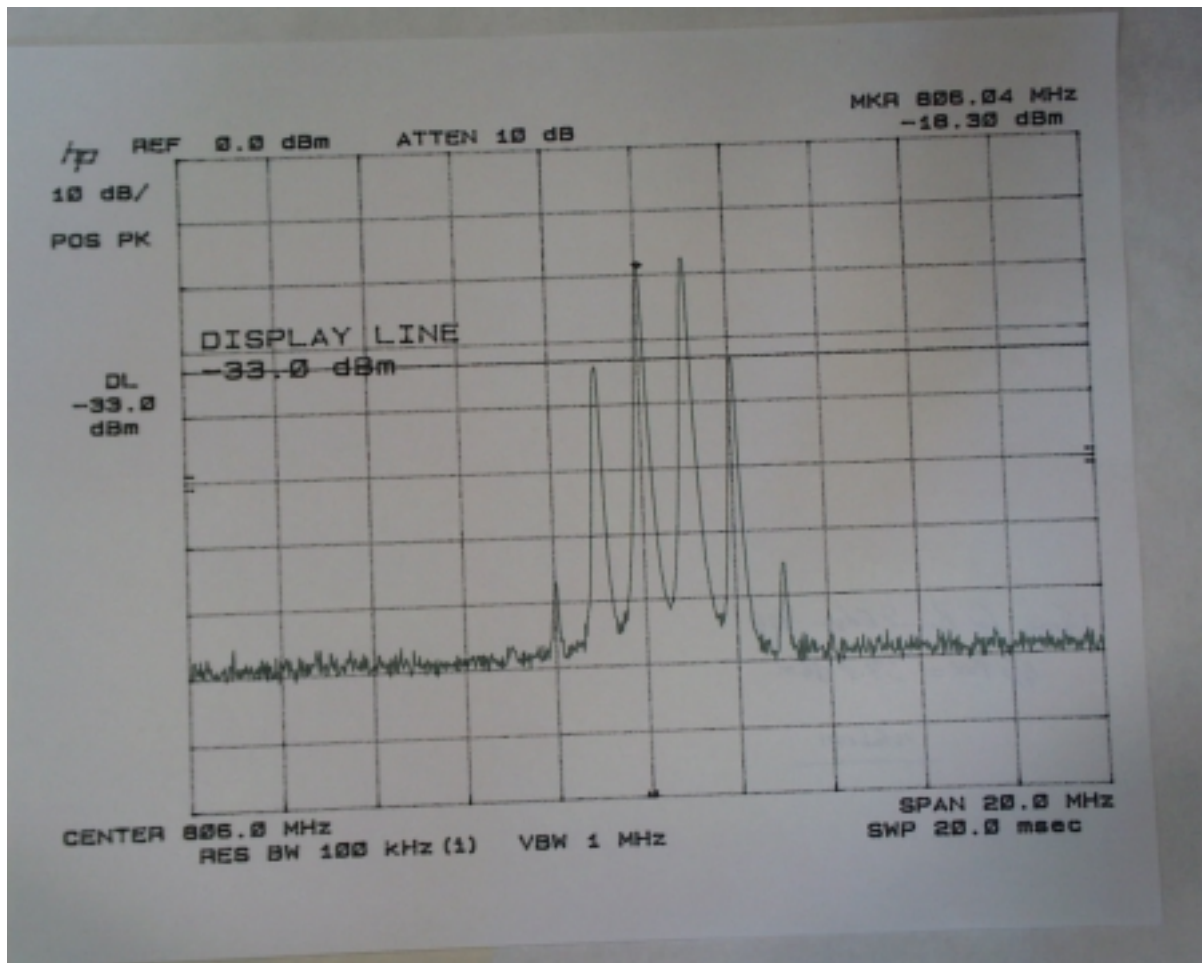
The EUT complies with maximum power output requirements.

TEST REPORT DATA				
Customer No: 208		MPBT No.: M34r2460	Test Date: Feb 7, 2001	
TEST COMP./PART: SAMPLE 1758	TEST DESCRIPTION: EMISSION LIMITATIONS FOR CELLULAR – OCCUPIED BANDWIDTH		TEST CRITERIA:	
MIL-SPECS./STDS.:	FCC PART 90 SUBPART G, SECTION 90.219		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
	The EUT must meet the specifications of <u>either</u> (b) <u>or</u> (c)			
Mask (b)	(f _c – 45 kHz) to (f _c – 20 kHz), 26 dB			
	(f _c + 20 kHz) to (f _c + 45 kHz), 26 dB			
	0 to (f _c – 45 kHz) , 60 <u>or</u> 43 + 10logP dB			
	(f _c + 45 kHz) to (2 x f _c), 60 <u>or</u> 43 + 10logP dB			
Mask (c)	(f _c – 20 kHz) to (f _c – 12 kHz), 117log(f _d /12)dB			
	(f _c + 12 kHz) to (f _c + 20 kHz), 117log(f _d /12) dB			
	0 to (f _c – 20 kHz), 100log(f _d /12) <u>or</u> 60 <u>or</u> 43 + 10logP dB			
	(f _c + 20 kHz) to (2 x f _c), 100log(f _d /12) <u>or</u> 60 <u>or</u> 43+10logP dB			
	Note: dB refers to attenuation from the mean power of the unmodulated carrier			
	<u>OR</u>			
	For equipment which does not perform modulation and only			
	amplifies the RF signal, pass/fail criteria shall be based on the			
	following:			
	a) The 20 dB bandwidth of the modulated carrier shall be the same (input signal vs. output signal).	✓		D.B.
	b) The difference of the amplitudes between the input signal and the output signal shall remain consistent (+/- 0.5 dB), for the 20 dB bandwidth of the modulated carrier.	✓		D.B.
MPBT: D.BECK	CUSTOMER: M.C.T. INC.		4 OF 6	



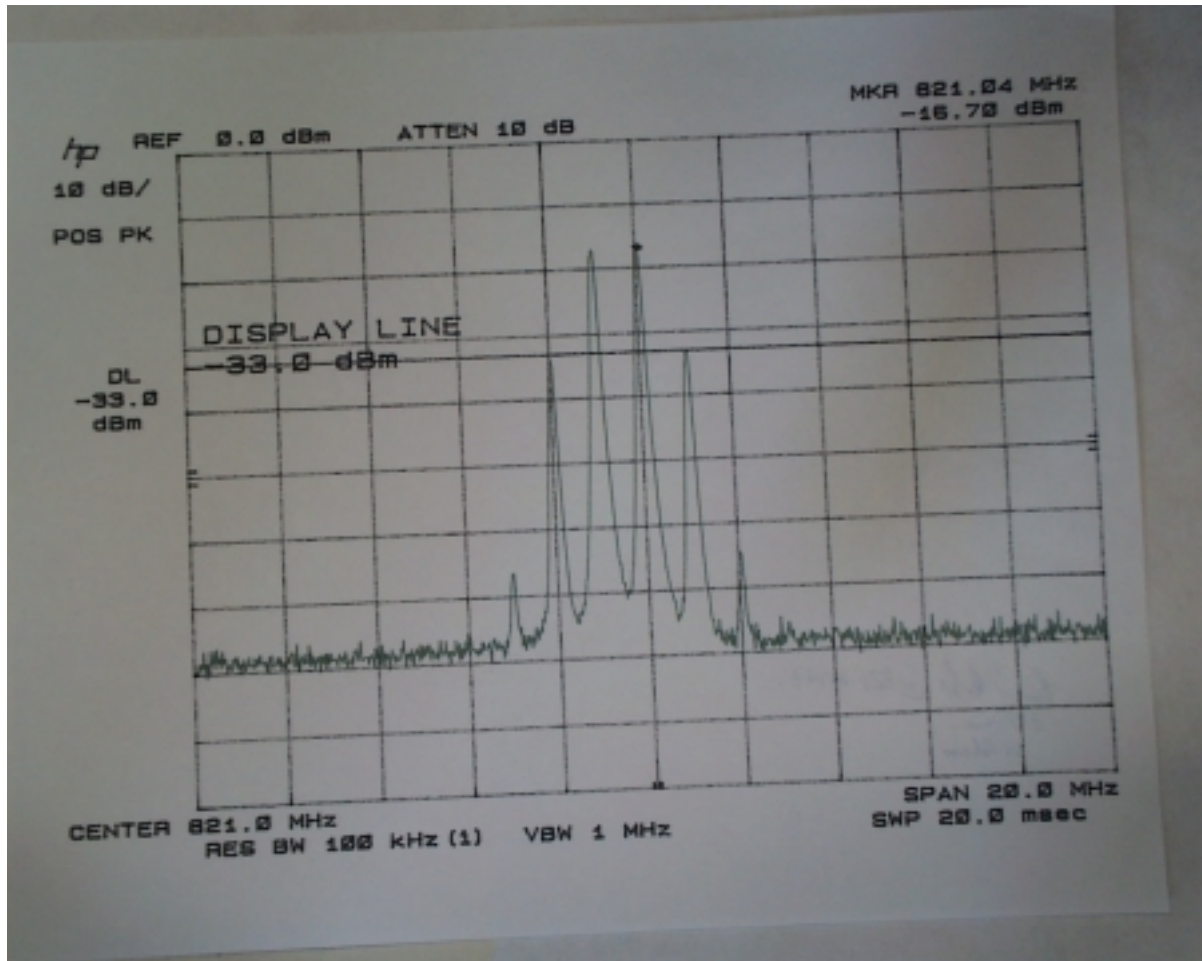
**BST 301 iDEN
Construction Detail**

Sample 1758



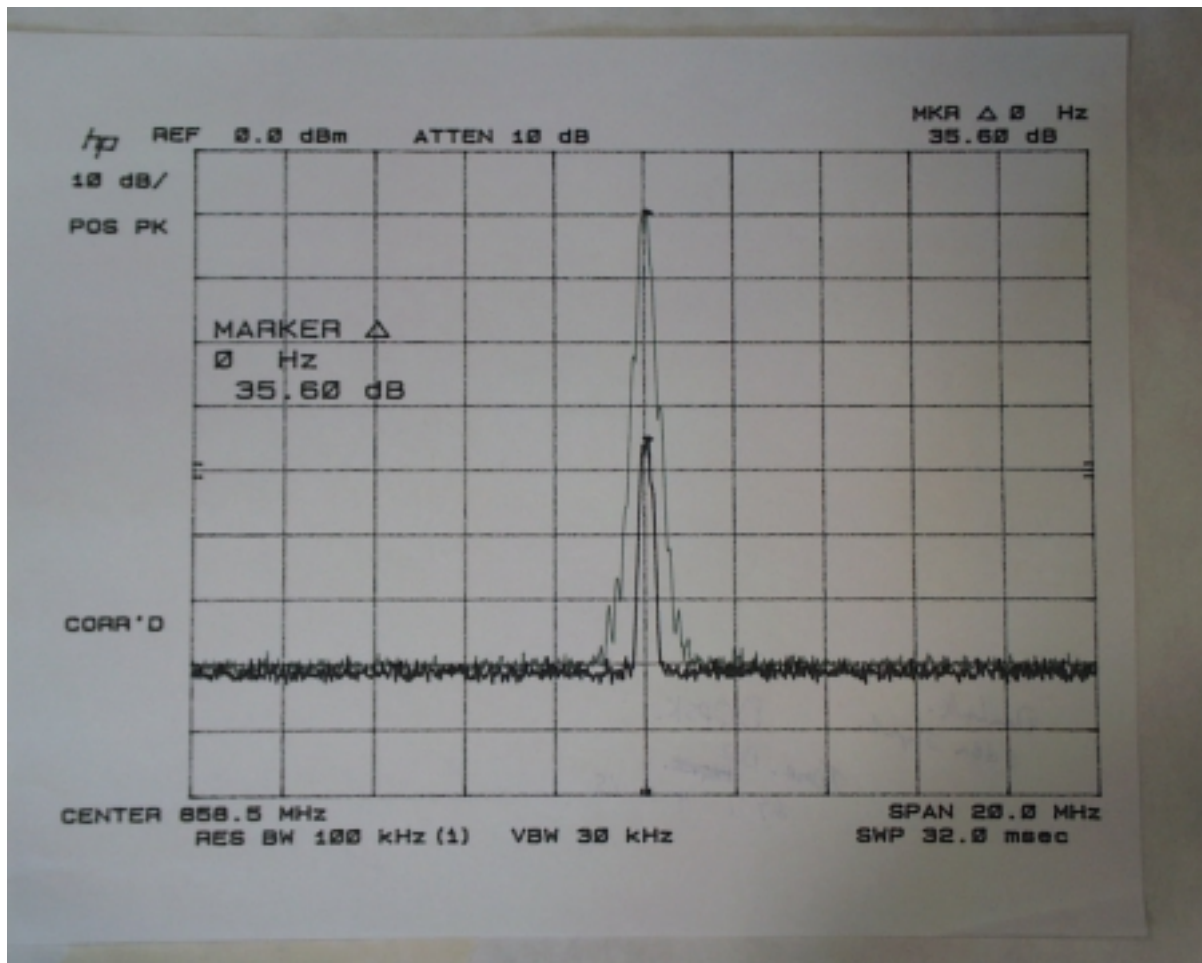
**BST301 Truncking Booster
Sample 1758**

TDMA @ 806mhZ / 2-Tone f1=806 MHZ,f2=807 MHz with 20 dB external PAD



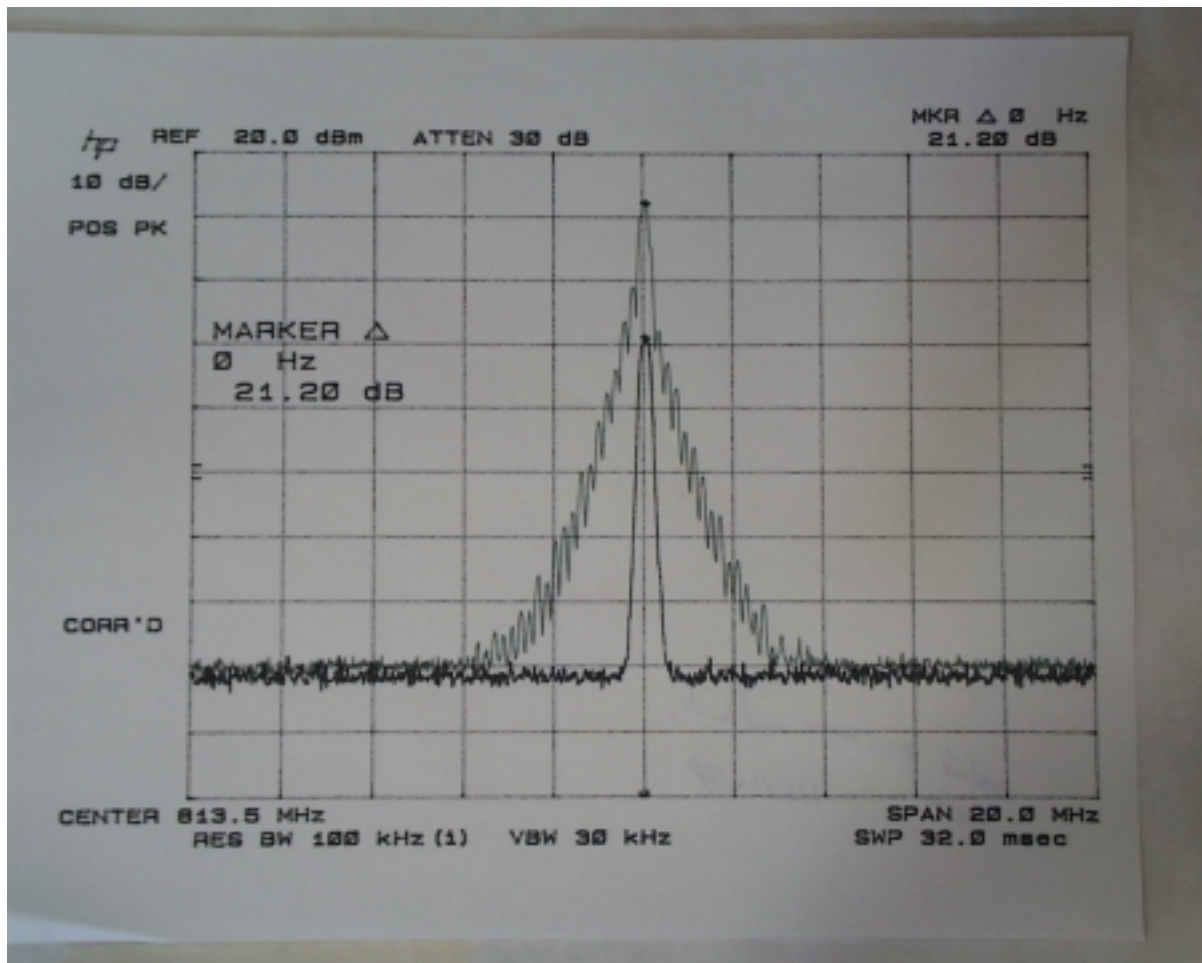
**BST301 Truncking Booster
Sample 1758**

TDMA @ 821 /



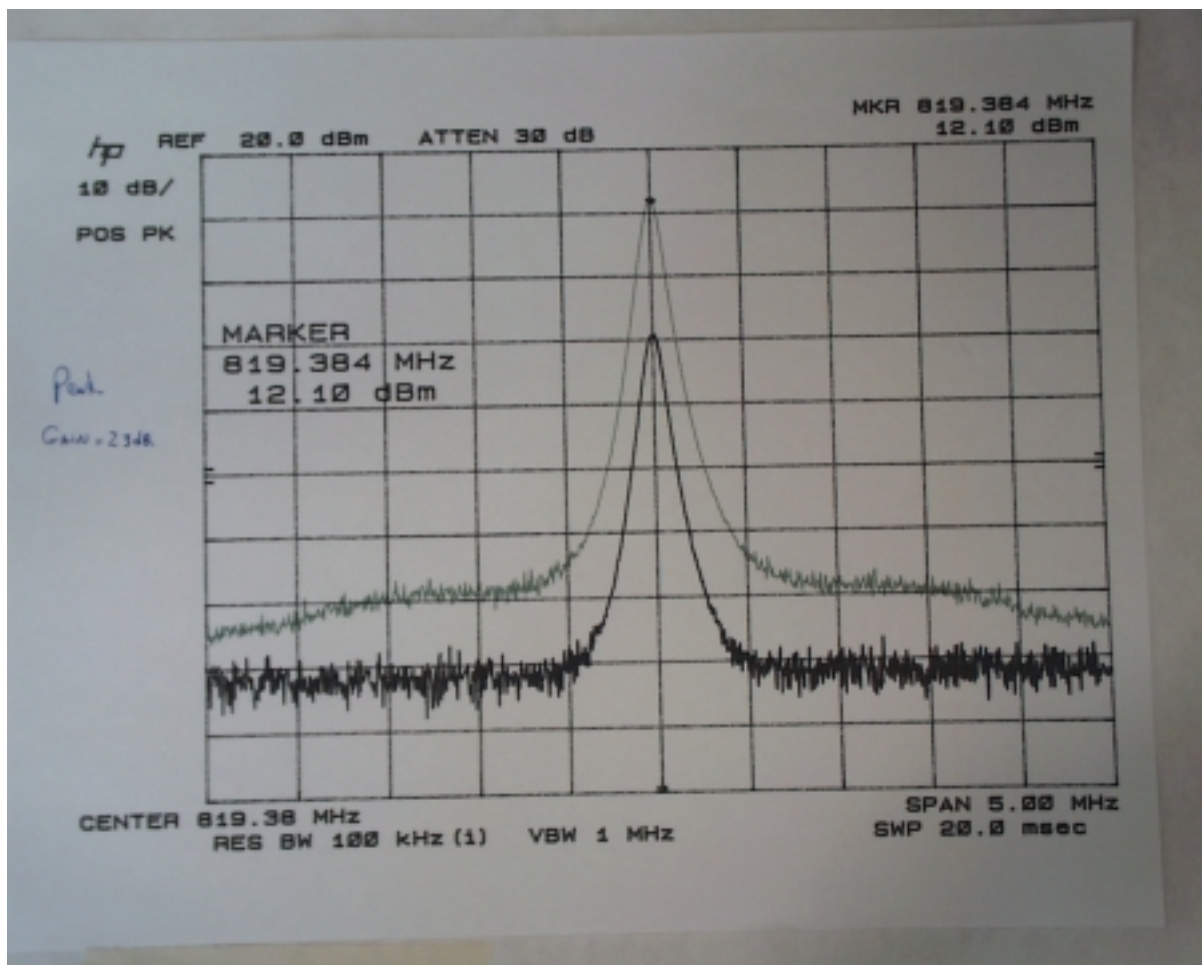
**BST301 Truncking Booster
Sample 1758**

TDMA @ 858.5 / Sig IN vs. Sig OUT



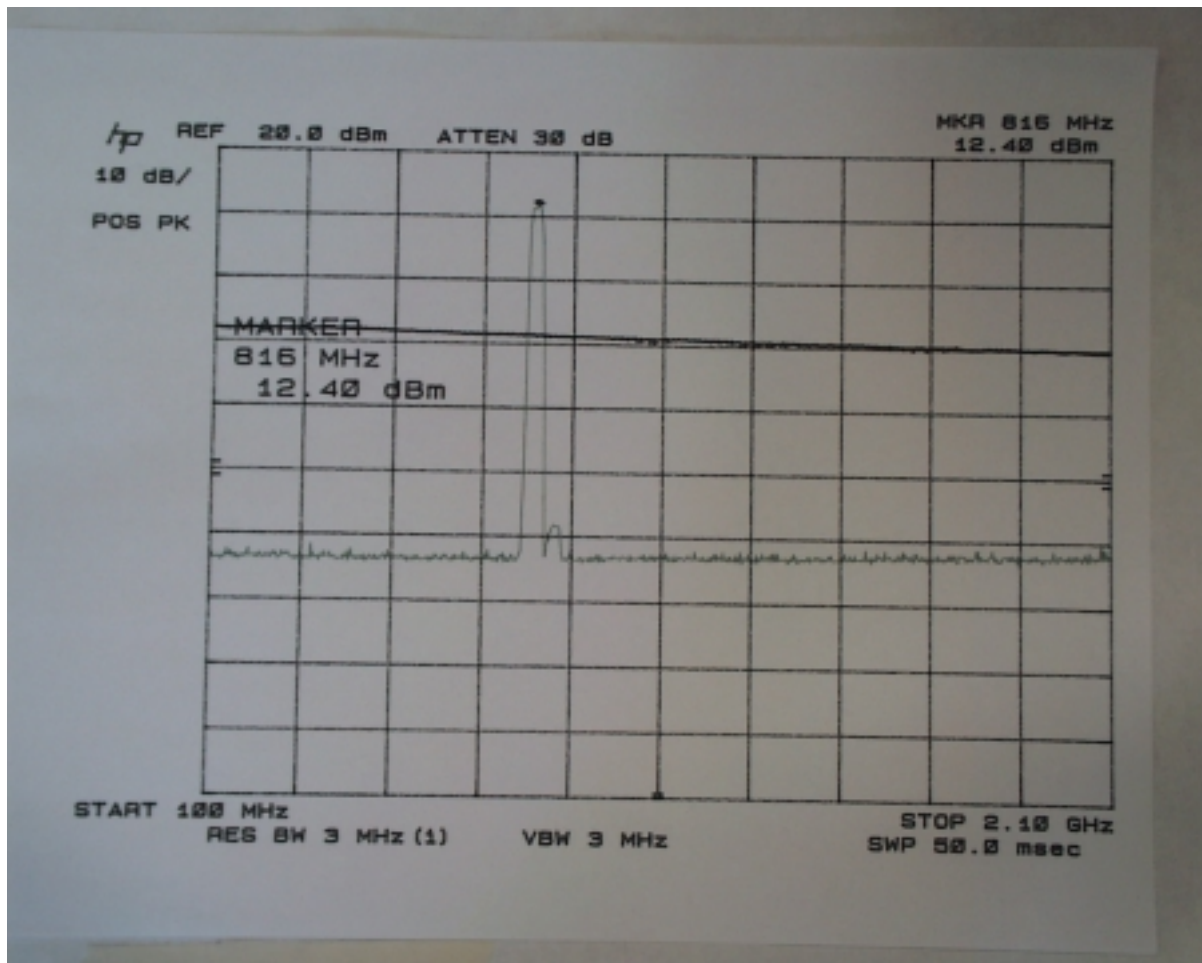
**BST301 Truncking Booster
Sample 1758**

**Uplink 813.5 MHz Midband
TDMA
13.5dBm input**



**BST301 Truncking Booster
Sample 1758**

Peak Gain 23 dB



BST301 Truncking Booster
Sample 1758

Gain versus Frequency

Bandpass