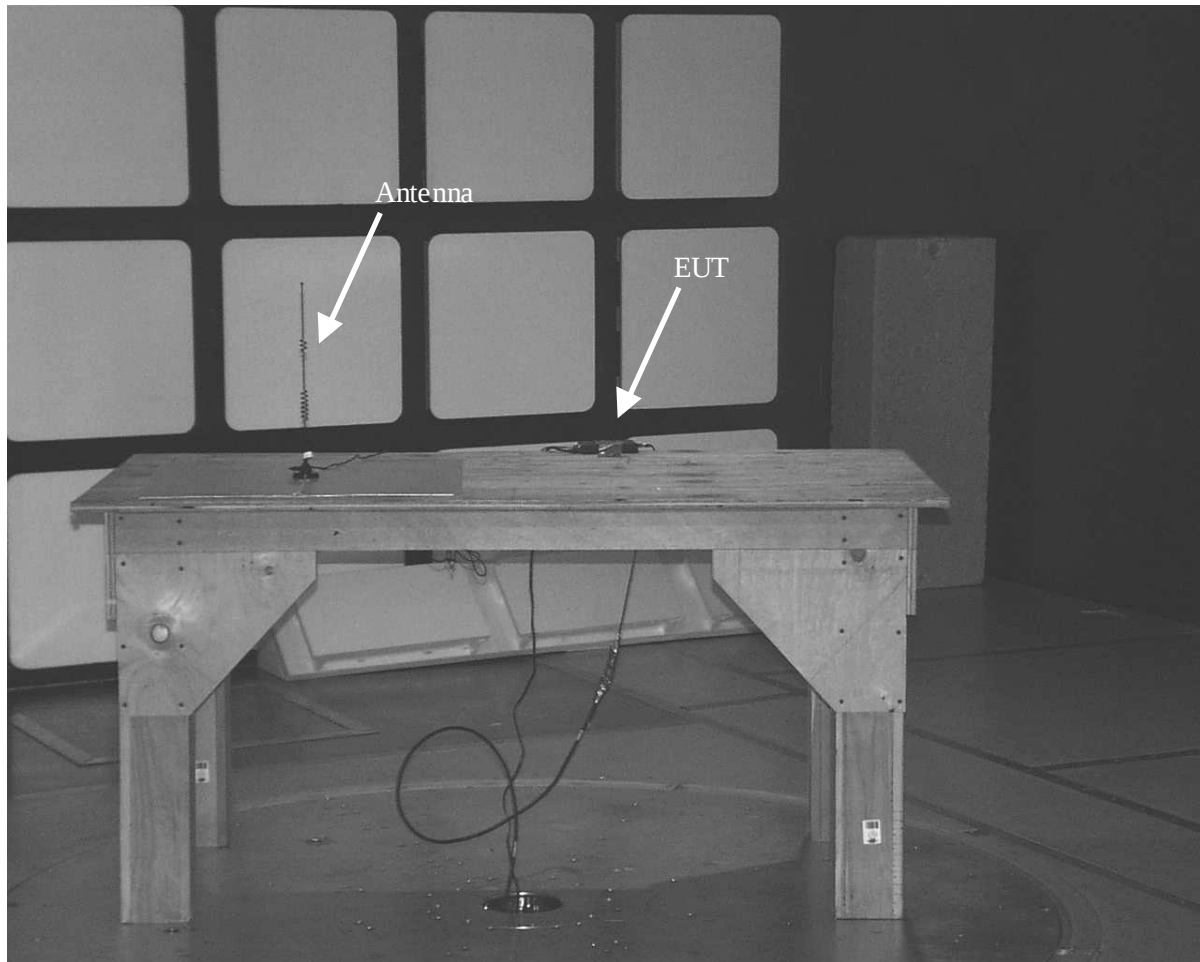


Appendix D

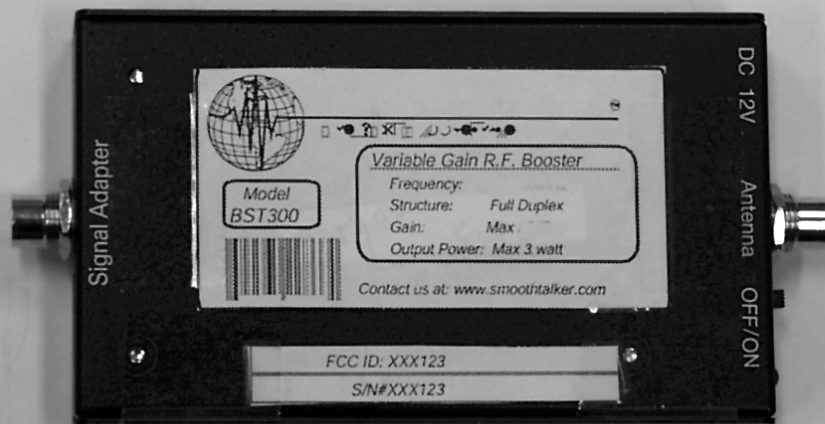
PHOTOGRAPHS

Representing Set Up and Maximized Emissions



Radiated Emissions (Spurious)

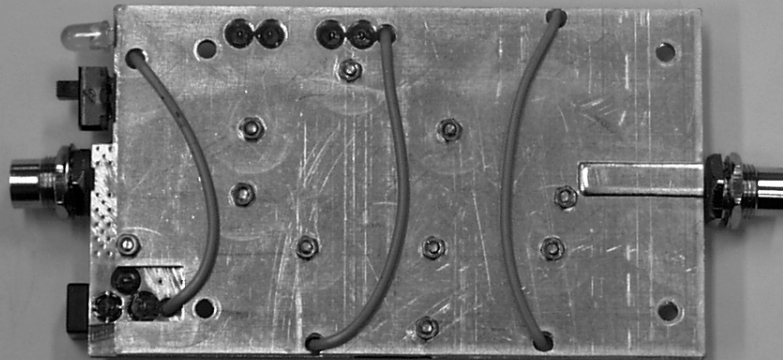
Mobile Technology



Typical identification label location.

M34R2197
Feb-14-2000
BST300 Cellular Signal Booster

Mobile Technology



M34R2197
Feb-14-2000
BST300 Cellular Signal Booster
Rear of PC board



Appendix E

SUPPLEMENTARY DATA

TEST REPORT DATA				
Customer No: 1129		MPBT No.: M34R2197	Test Date: February 14, 2000	
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	

Sample #642	Frequency: 836 MHz				
	Signal Gen	Spec A	Losses*	Calculated	Gain
Temperature & Voltage	RF Out (dBm)	Reading (dBm)	(dB)	Out (dBm)	(dB)
+ 60 C @ 13.2 V (110%)	10	-19.9	52.3	32.4	22.4
+ 60 C @ 12.0 V (100%)	10	-20.2	52.3	32.1	22.1
+ 60 C @ 10.8 V (90%)	10	-21.3	52.3	31	21
+ 60 C @ 9.6 V (80%)	10	-21.4	52.3	30.9	20.9
+ 25 C @ 13.2 V (110%)	10	-18.9	52.3	33.4	23.4
+ 25 C @ 12.0 V (100%)	10	-19.5	52.3	32.8	22.8
+ 25 C @ 10.8 V (90%)	10	-20.7	52.3	31.6	21.6
+ 25 C @ 9.6 V (80%)	10	-21	52.3	31.3	21.3
-30 C @ 13.2 V (110%)	10	-17.8	52.3	34.5	24.5
-30 C @ 12.0 V (100%)	10	-18.8	52.3	33.5	23.5
-30 C @ 10.8 V (90%)	10	-20.1	52.3	32.2	22.2
-30 C @ 9.6 V (80%)	10	-20.9	52.3	31.4	21.4
Note: *Losses Include Cable1 (0.9), Cable2 (0.9), Coupler (50), Cable3 (0.5)					
= 52.3					
Signal Gen RF Out taken at 1dB compression point					

The EUT complies with the Environmental Conditions requirements

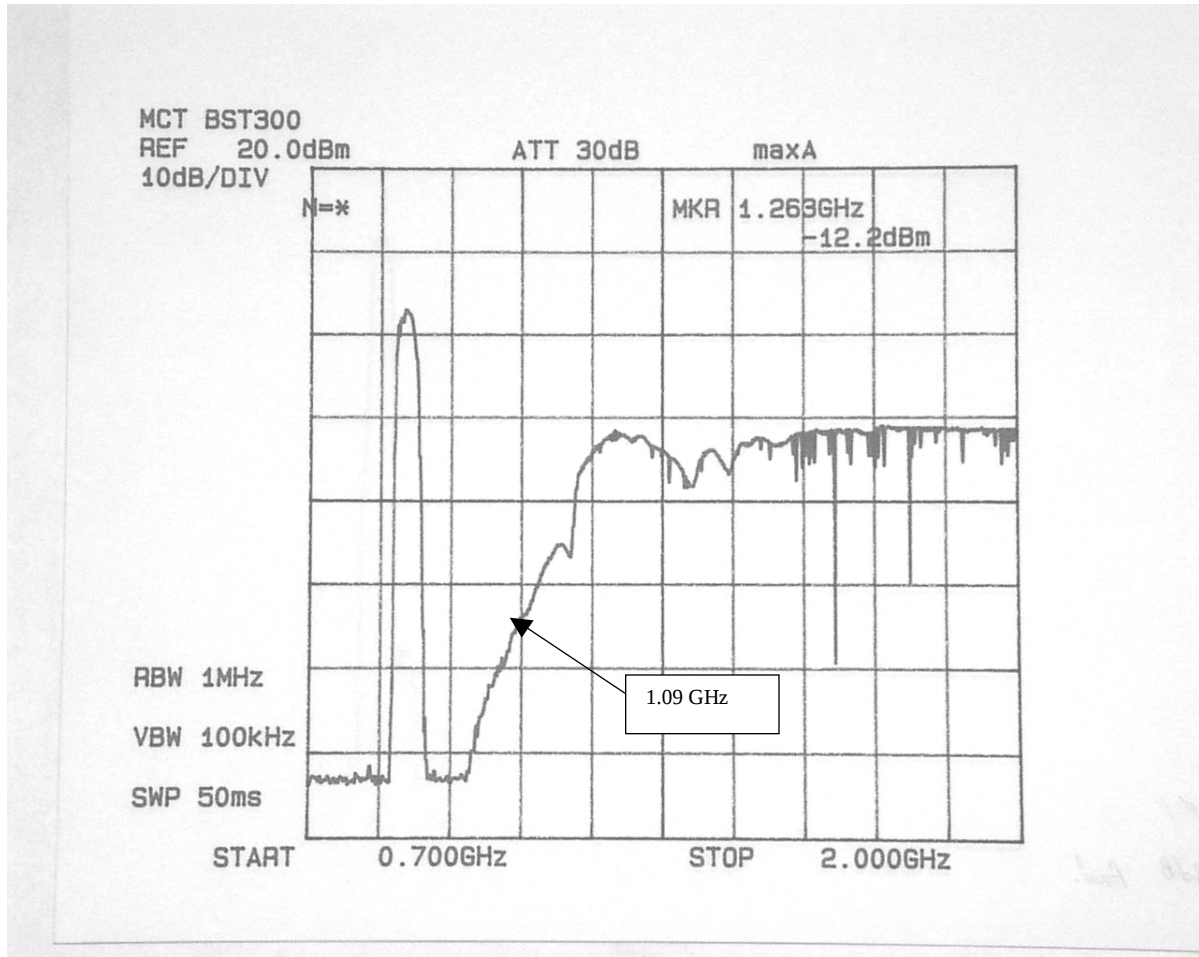
Appendix F

1.9 GHz PCS PASSIVE BY_PASS CIRCUITRY CHARACTERIZATION

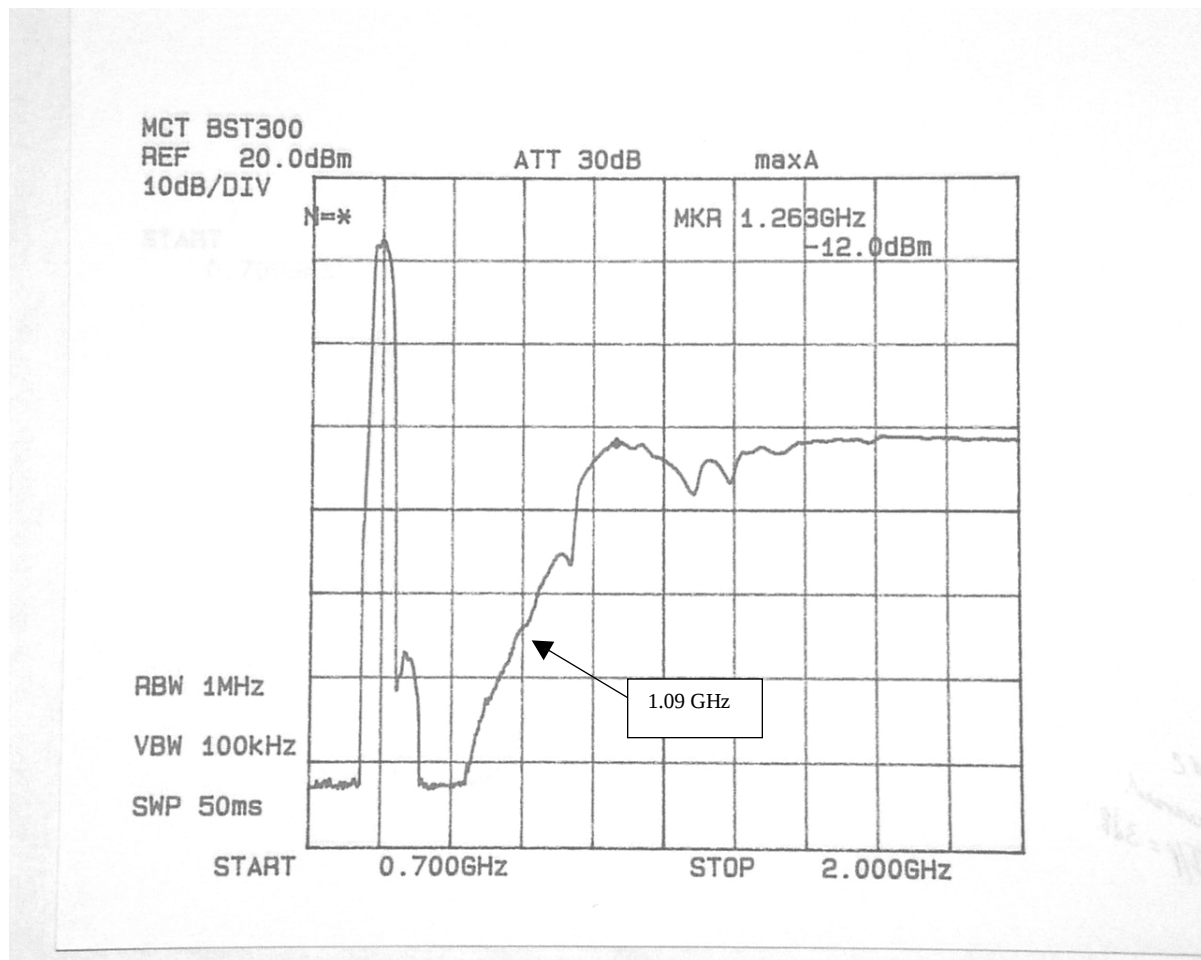
DATA PLOTS and PHOTOGRAPHS.

FCC PART 2.1043 PERMISSIVE CHANGE

TEST REPORT DATA				
Customer No: PO#209		MPBT No.: M34r2459	Test Date: February 2 2001	
TEST COMP./PART:	TEST DESCRIPTION: 1.9 GHz BY PASS CIRCUITRY CHARACTERIZATION		TEST CRITERIA:	
MIL-SPECS./STDS.:	FCC PART 2.1043 PERMISSIVE CHANGE		QUAL: ✓ ENG.:	
FACILITY: MPB TECHNOLOGIES INC.	TEST ENGINEER: D. ZANETTE		INTERNAL:	
QA PERSONNEL:	OTHER: TEMP.: 21 C HUMIDITY: 35 %			
TEST PROCEDURES	DETAILS/DEVIATIONS: -PEAK SWEEP MEASUREMENT DATA			
Insertion loss Method	EUT: BST300 Booster Amplifier			
	Plot 1, 0.7 GHz to 2.0 GHz, Down Link			
	Plot 2, 0.7 GHz to 2.0 GHz, Up Link			
	Plot 3, 2.0 GHz to 3.6 GHz, Up Link			
	Plot 4, 3.6 GHz to 5.0 GHz, Up Link			
	Plot 5, 3.6 GHz to 5.0 GHz, Down Link			
	Plot 6, 2.0 GHz to 3.6 GHz, Down Link			
	Plot 7, Direct from signal generator to Spectrum Analyzer			
	Plot 8, Test signal amplitude through Up Link			
	Plot 9, Test signal amplitude through Down Link			
	Setup Cable Loss 1.8 dB			
MPBT: D. ZANETTE		CUSTOMER: M.C.T. INC.	1 OF 1	



Plot 1
1.9 GHz Bypass Shape
Signal Input Down link
BST300
FCC PART 2.1043 PERMISSIVE CHANGE



Plot 2
1.9 GHz Bypass Shape
Signal Input Up link
BST300
FCC Part 2.1043 Permissive Change