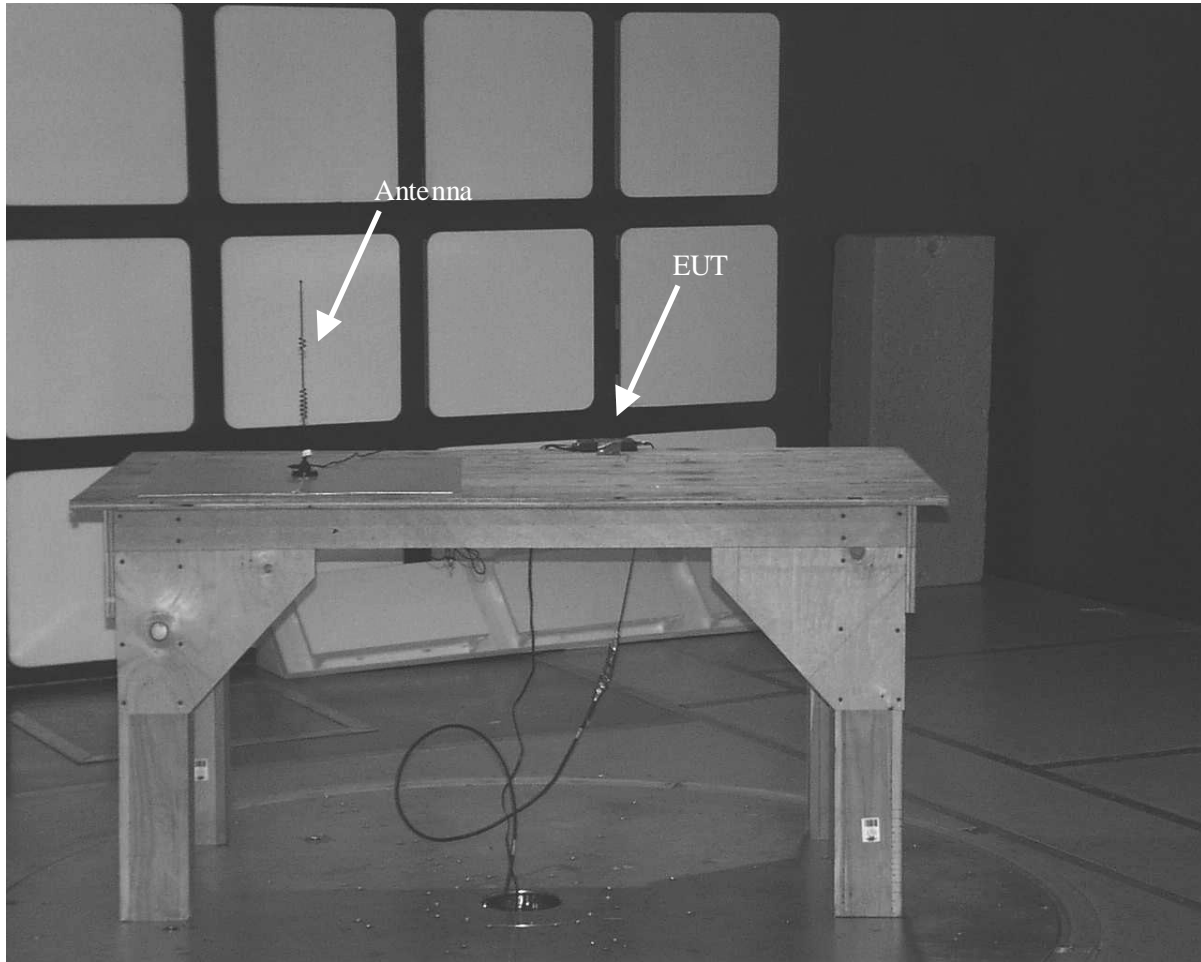


Appendix D

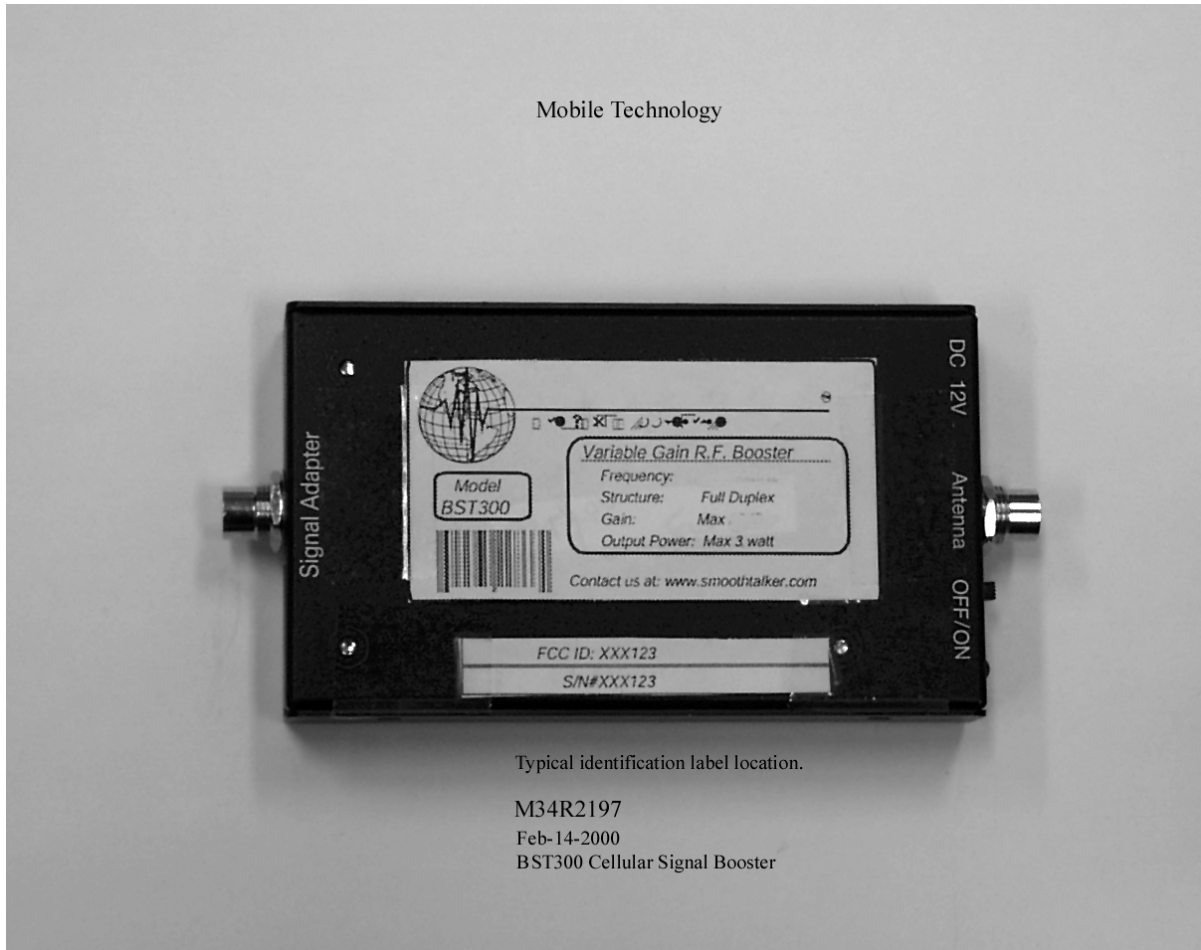
PHOTOGRAPHS

Representing Set Up and Maximized Emissions



Radiated Emissions (Spurious)

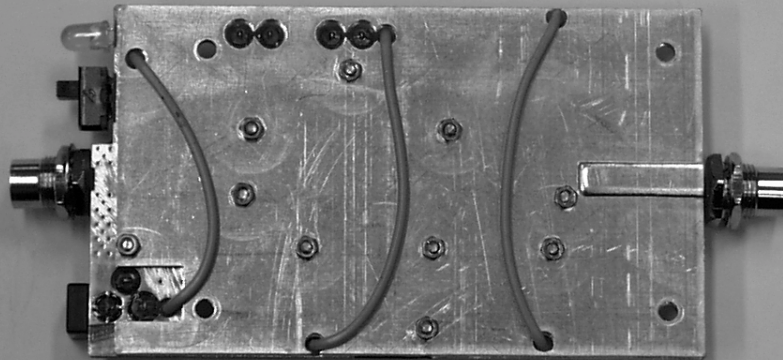
Mobile Technology



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 | | | | |
|--|----------------------------|----------------------------|-----------------|-------------------------|--------------|
| Temperature & Voltage | Signal Gen RF Out (dBm) | Spec A Reading (dBm) | Losses* (dB) | Calculated Out (dBm) | Gain (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

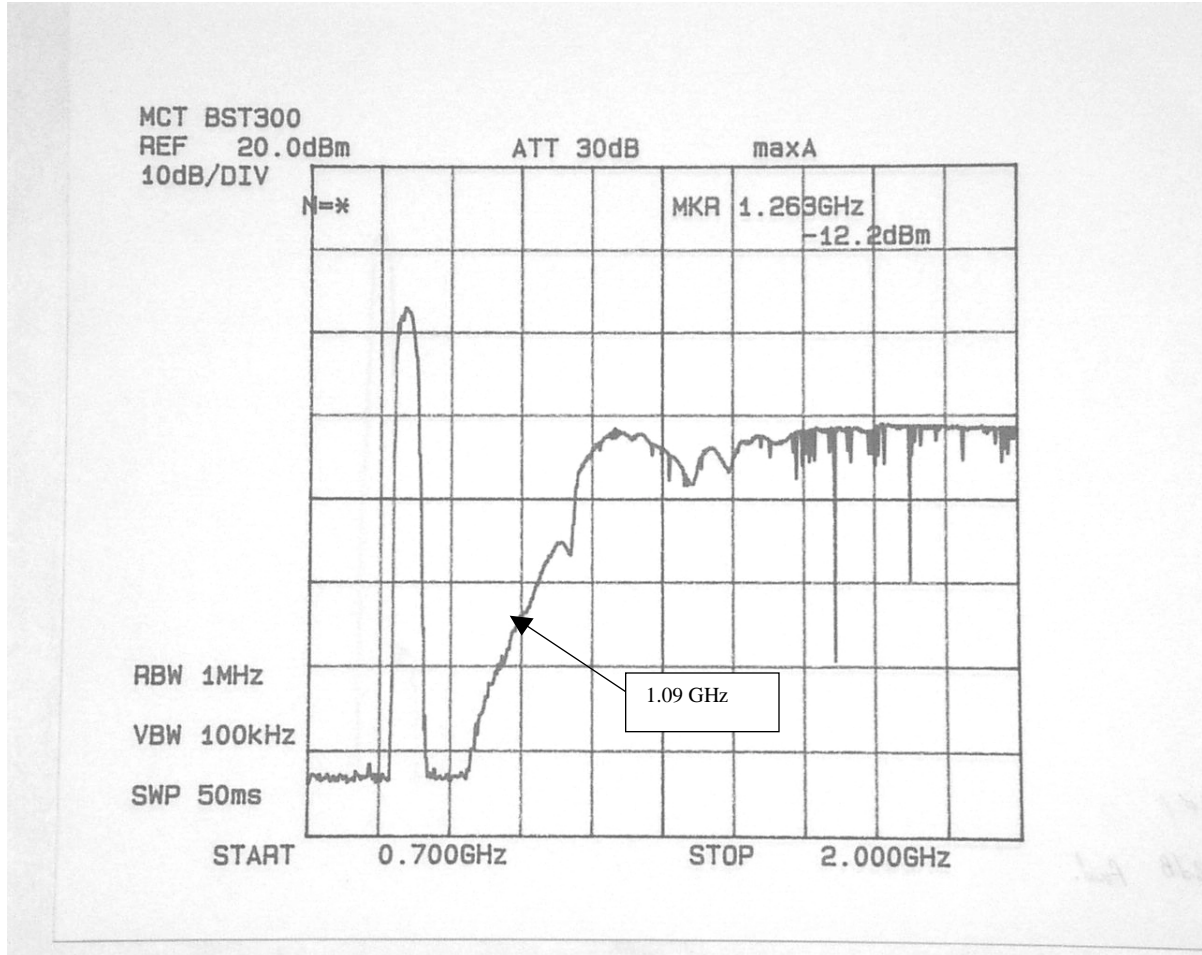
Appendix F

1.9 GHz PCS PASSIVE BY_PASS CIRCUITRY CHARACTERIZATION

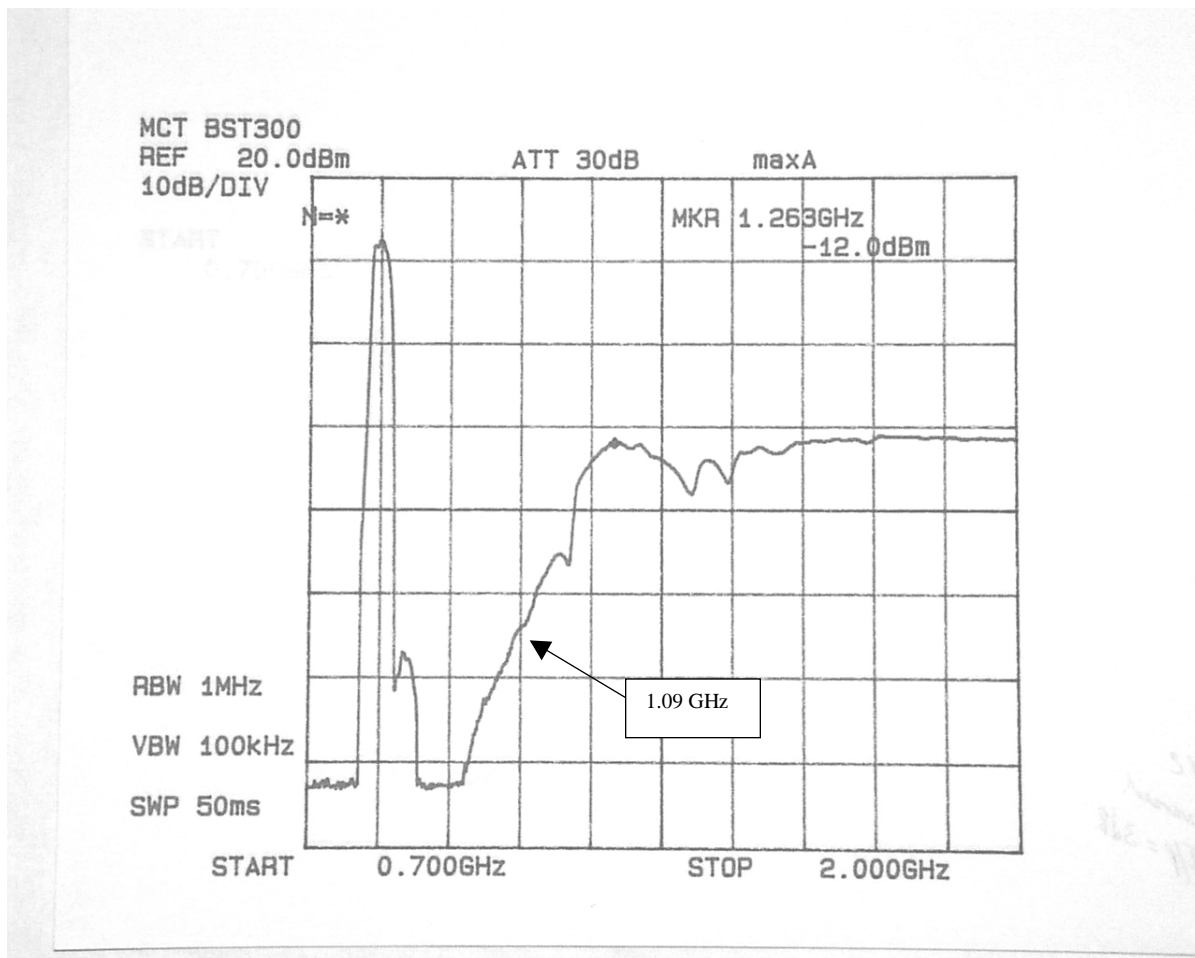
DATA PLOTS and PHOTOGRAPHS.

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