

Exhibit U: Spurious Radiated Emissions

FCC ID: HN2SB555

Justification

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. While scanning the radiated emissions, all of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

Channels in Specified Band Investigated:

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|-----|
| Low |
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|-----|
| Mid |
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| |
|------|
| High |
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Operating Modes Investigated:

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|----------|
| PSC Mode |
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|---------------|
| Cellular Mode |
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| PSC Mode simultaneously transmitting with co-located 802.11(b) radio |
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|---|
| Cellular Mode simultaneously transmitting with co-located 802.11(b) radio |
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Antennas Investigated:

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|---------------|
| PSTGO-1900SCI |
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|---------------------|
| PSTGO-900 / 1900SCI |
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Data Rates Investigated:

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|---------|
| Maximum |
|---------|

Power Input Settings Investigated:

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|---------|
| Battery |
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Frequency Range Investigated

| | | | |
|-----------------|--------|----------------|--------|
| Start Frequency | 30 MHz | Stop Frequency | 25 GHz |
|-----------------|--------|----------------|--------|

Software\Firmware Applied During Test

| | | | |
|-------------------|--------------|---------|-------|
| Exercise software | Sierra SMART | Version | V.046 |
|-------------------|--------------|---------|-------|

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| Description |
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| The system was tested using special software developed to test all functions of the device during the test. |
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Equipment Modifications

No EMI suppression devices were added or modified. The EUT was tested as delivered.

EUT and Peripherals

| Description | Manufacturer | Model/Part Number | Serial Number |
|-------------|--------------|---------------------|-----------------|
| EUT-Radio | Intermec | SB555 | 6301FEOC |
| Host Device | Intermec | 700C | E02093050443010 |
| Antenna | Mobile Mark | PSTGO-1900SCI | N/A |
| Antenna | Mobile Mark | PSTGO-900 / 1900SCI | N/A |

Cables

| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
|------------|--------|------------|---------|--------------|--------------|
| N/A | N/A | N/A | N/A | N/A | N/A |

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

Measurement Equipment

| Description | Manufacturer | Model | Identifier | Last Cal | Interval |
|--------------------|--------------------|----------------------|------------|------------|----------|
| Spectrum Analyzer | Hewlett-Packard | 8566B | AAL | 03/19/2002 | 12 mo |
| Pre-Amplifier | Amplifier Research | LN1000A | APS | 12/03/2001 | 14 mo |
| Antenna, Biconilog | EMCO | 3141 | AXE | 12/31/2001 | 36 mo |
| Antenna, Horn | EMCO | 3115 | AHJ | 05/23/2002 | 12 mo |
| Pre-Amplifier | Miteq | AMF-4D-010120-30-10P | AOP | 07/09/2002 | 12 mo |
| Spectrum Analyzer | Tektronix | 2784 | AAO | 03/08/2001 | 24 mo |
| Pre-Amplifier | Miteq | JSD4-18002600-26-8P | APU | 01/17/2000 | 36 mo |
| Antenna, Horn | EMCO | 3160-09 | AHG | 01/15/2000 | 36 mo |
| DC Power Supply | Topward | TPS-2000 | TPD | NCR | N/A |
| Signal Generator | Hewlett-Packard | 8341B | TGM | 01/09/02 | 12 mo |
| Antenna, Horn | EMCO | 3115 | AHF | 03/03/02 | 12 mo |

Test Description

Requirement: Per 2.1053, the field strength of spurious radiation was measured in the far-field at an FCC Listed semi-anechoic chamber up to 25 GHz. The applicable limits are 22.917(e) for the cellular band, and 24.238(a) for the PCS band.

Per 22.917(e), the mean power of out of band emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency twice or more than twice the fundamental frequency by at least $43 + 10 \log (P)$ dB. (-13 dBm).

Per 24.238(a), on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. (-13 dBm).

Configuration: Spectrum analyzer, signal generator, and linearly polarized antennas were used to measure radiated harmonics and spurious emissions. The orientation of the EUT and measurement antenna were manipulated to maximize the level of emissions. The EUT was configured to transmit at the highest output at low, mid, and high channels. The EUT was tested with each antenna. Only one antenna can be used at a time.

The substitution method as described in TIA/EIA-603 Section 2.2.12 was used for the highest spurious emissions. The EUT was tested individually, then while simultaneously transmitting with a co-located radio.

Test Methodology: For licensed transmitters, the FCC references TIA/EIA-603 as the measurement procedure standard. TIA/EIA-603 Section 2.2.12 describes a method for measuring radiated spurious emissions that utilizes an antenna substitution method:

At an approved test site, the transmitter is placed on a remotely controlled turntable, and the measurement antenna is placed 3 meters from the transmitter. The turntable azimuth is varied to maximize the level of

spurious emissions. The height of the measurement antenna is also varied from 1 to 4 meters. The amplitude and frequency of the highest emissions are noted. The transmitter is then replaced with a $\frac{1}{2}$ wave dipole that is successively tuned to each of the highest spurious emissions. A signal generator is connected to the dipole (horn antenna for frequencies above 1 GHz), and its output is adjusted to match the level previously noted for each frequency. The output of the signal generator is recorded, and by factoring in the cable loss to the dipole antenna and its gain; the power (dBm) into an ideal $\frac{1}{2}$ wave dipole antenna is determined for each radiated spurious emission.

For the purposes of preliminary measurements, the field strength of the spurious emissions can be measured and compared with a 3 meter limit. The final measurements must be made utilizing the substitution method described above. The 3 meter limit was calculated to be 84.3 dBuV/m at 3 meters. This was based upon an output power of 0.224 W.

Simultaneous Transmission: The EUT will be co-located with two other radios: FCC ID:HN22011B (802.11(b) radio), and FCC ID:HN2ABTM3-2 (Bluetooth radio). Any two of the three radios can transmit simultaneously. All three radios cannot transmit simultaneously. Each radio transmits through its own antenna.

The following is an excerpt from the FCC / TCB Training Q & A, October 2002, Day 2, Question 7:

Assuming that the radios do not share an antenna, only radiated tests for simultaneous transmission is required. If the radios share an antenna, antenna conducted measurements would also be required. Only one set of worst case simultaneous transmission data is going to be requested to be submitted at this time. The test engineer should indicate the worst case condition and provide justification as to why the worst case condition was chosen. The grantee should be reminded that even if the FCC requests one set of data, they are responsible for compliance for all modes of simultaneous transmission.

Since the Bluetooth radio has such a low EIRP (.001W) and is a frequency hopper, the worst case simultaneous transmission mode was determined to be the EUT transmitting simultaneously with the 802.11(b) radio (EIRP = 0.056 W & single channel operation). The EUT was tested in both cellular and PCS modes while simultaneously transmitting with the 802.11(b) radio. Simultaneous low, mid, and high transmit frequencies were investigated from 30 MHz to 25 GHz.

In addition, all the possible combinations of harmonic emissions from the EUT and the 802.11(b) radio were compared numerically. It was determined that only channels 526 (1876 MHz) and 930 (1896 MHz) in PCS mode could have harmonic emissions that coincide with the center frequency of harmonic emissions from the 802.11(b) radio (tuned to channels 1 (2412 MHz) and 6 (2437 MHz) respectively). The frequency range from 10 to 18 GHz was investigated for these channel combinations.

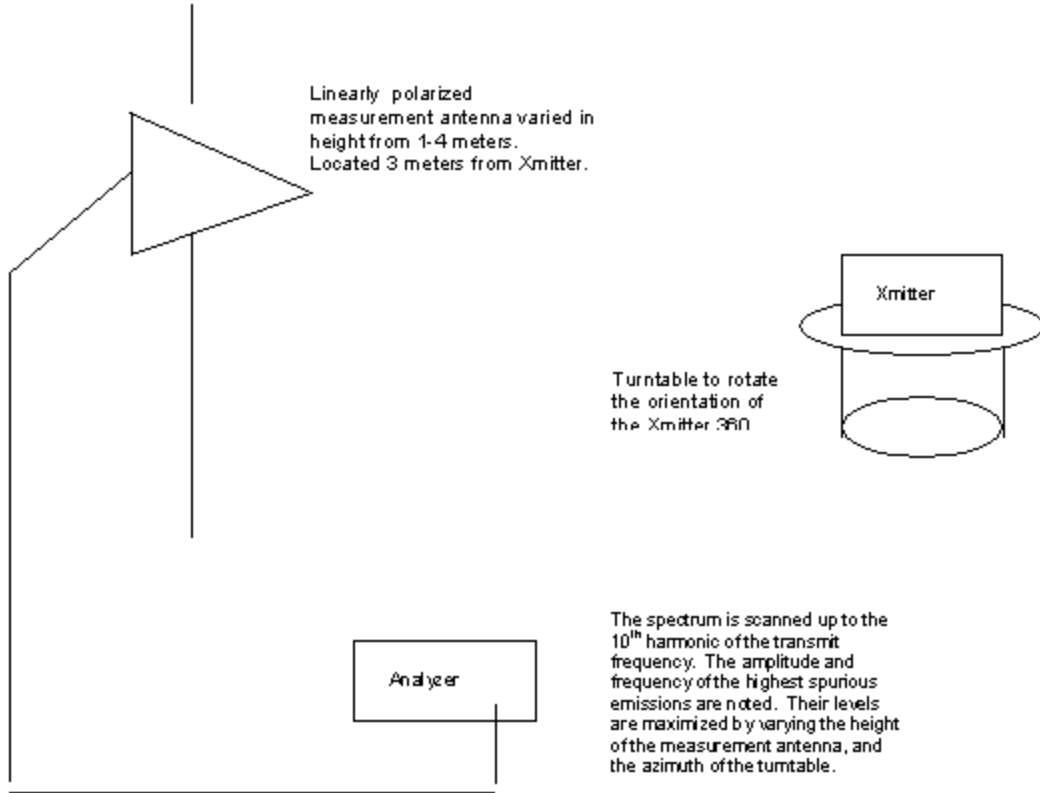
Bandwidths Used for Measurements

| Frequency Range (MHz) | Peak Data (kHz) | Quasi-Peak Data (kHz) | Average Data (kHz) |
|-----------------------|-----------------|-----------------------|--------------------|
| 0.01 – 0.15 | 1.0 | 0.2 | 0.2 |
| 0.15 – 30.0 | 10.0 | 9.0 | 9.0 |
| 30.0 – 1000 | 100.0 | 120.0 | 120.0 |
| Above 1000 | 1000.0 | N/A | 1000.0 |

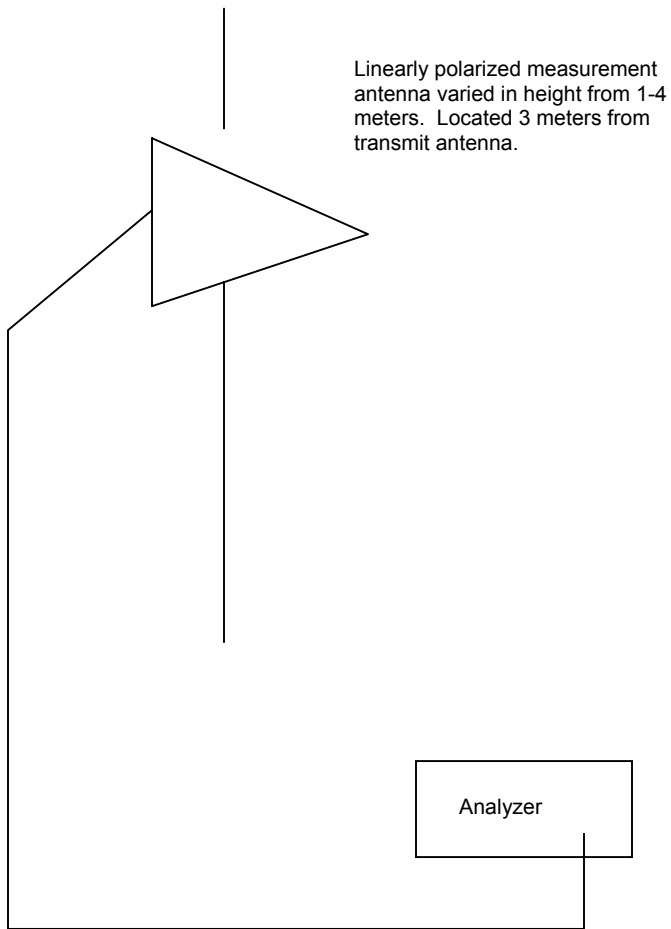
Measurements were made using the bandwidths and detectors specified. No video filter was used.

Test Setup Diagram

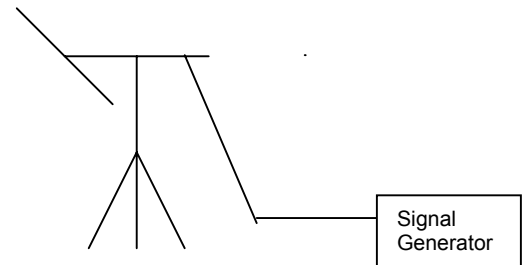
Test Setup for Field Strength Measurements



Test Setup for Power Measurements Utilizing the Antenna Substitution Method



During field strength measurements, the amplitude and frequency of the highest emissions are noted. The transmitter is then replaced with a $\frac{1}{2}$ wave dipole (at the same height) that is successively tuned to each of the highest spurious emissions. A signal generator is connected to the dipole (horn antenna for frequencies above 1 GHz), and its output is adjusted to match the level previously noted for each frequency.



The spectrum analyzer is monitored to verify that the output of the signal generator produces a signal equal in amplitude to a previously measured spurious emission.

Completed by:

Rocky Lee Felting

Apparent Power Data Sheet

| | | |
|-------------------------------------|----------------|----------------------------|
| EUT: SB555 Radio used in Model 700C | | Work Order: INMC0044 |
| Serial Number: 6301FEOC | | Date: 12/24/02 |
| Customer: INTERMEC Corporation | | Temperature: 70 |
| Attendees: None | | Humidity: 32% |
| Cust. Ref. No.: | | Barometric Pressure: 29.75 |
| Tested by: Rod Peloquin | Power: Battery | Job Site: EV01 |

| | |
|-----------------------------|------------|
| TEST SPECIFICATIONS | |
| Specification: FCC Part 24E | Year: 2002 |
| Method: TIA/EIA-603 | Year: 1998 |

SAMPLE CALCULATIONS
 Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation
 Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

COMMENTS
 Antenna PSTGO-900 / 1900SCI

EUT OPERATING MODES
 Transmitting - PCS Band

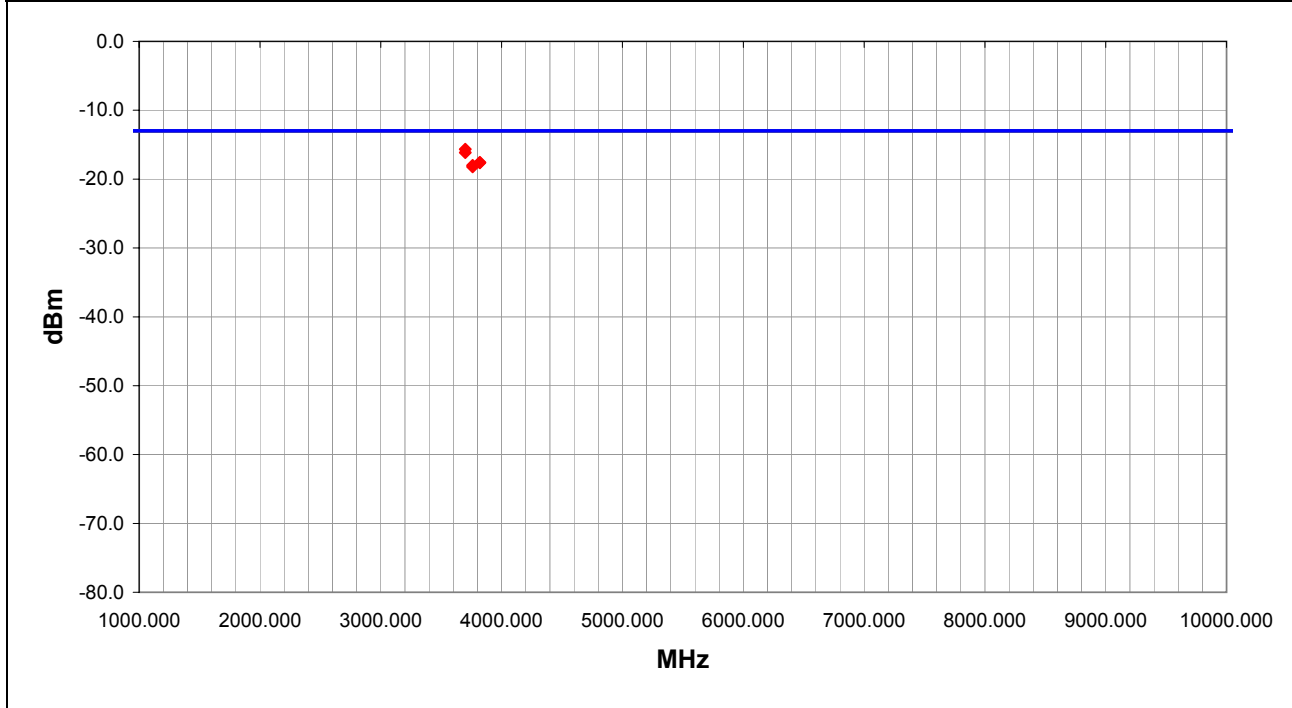
DEVIATIONS FROM TEST STANDARD
 No deviations.

| | | |
|----------------|-------------------|-------|
| RESULTS | Test Distance (m) | Run # |
| Pass | 3 | 6 |

Other



 Tested By:



| Freq (MHz) | Azimuth (degrees) | Height (meters) | Polarity | Detector | EIRP (dBm) | Spec. Limit (dBm) | Compared to Spec. (dB) | Comments |
|------------|-------------------|-----------------|----------|----------|------------|-------------------|------------------------|--------------|
| 3699.354 | 307.0 | 1.1 | H-Horn | PK | -15.7 | -13.0 | -2.7 | Low Channel |
| 3699.360 | 7.0 | 1.5 | V-Horn | PK | -16.1 | -13.0 | -3.1 | Low Channel |
| 3819.400 | 156.0 | 1.2 | V-Horn | PK | -17.6 | -13.0 | -4.6 | High Channel |
| 3819.400 | 69.0 | 1.3 | H-Horn | PK | -17.6 | -13.0 | -4.6 | High Channel |
| 3759.400 | 347.0 | 1.2 | V-Horn | PK | -18.0 | -13.0 | -5.0 | Mid Channel |
| 3759.400 | 107.0 | 1.3 | H-Horn | PK | -18.2 | -13.0 | -5.2 | Mid Channel |

Apparent Power Data Sheet

| | | |
|-------------------------------------|----------------|----------------------------|
| EUT: SB555 Radio used in Model 700C | | Work Order: INMC0044 |
| Serial Number: 6301FEOC | | Date: 12/24/02 |
| Customer: INTERMEC Corporation | | Temperature: 72 |
| Attendees: None | | Humidity: 32% |
| Cust. Ref. No.: | | Barometric Pressure: 29.75 |
| Tested by: Rod Peloquin | Power: Battery | Job Site: EV01 |

| | |
|-----------------------------|------------|
| TEST SPECIFICATIONS | |
| Specification: FCC Part 24E | Year: 2002 |
| Method: TIA/EIA-603 | Year: 1998 |

SAMPLE CALCULATIONS
 Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation
 Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator


COMMENTS
 Antenna PSTGO-1900SCI

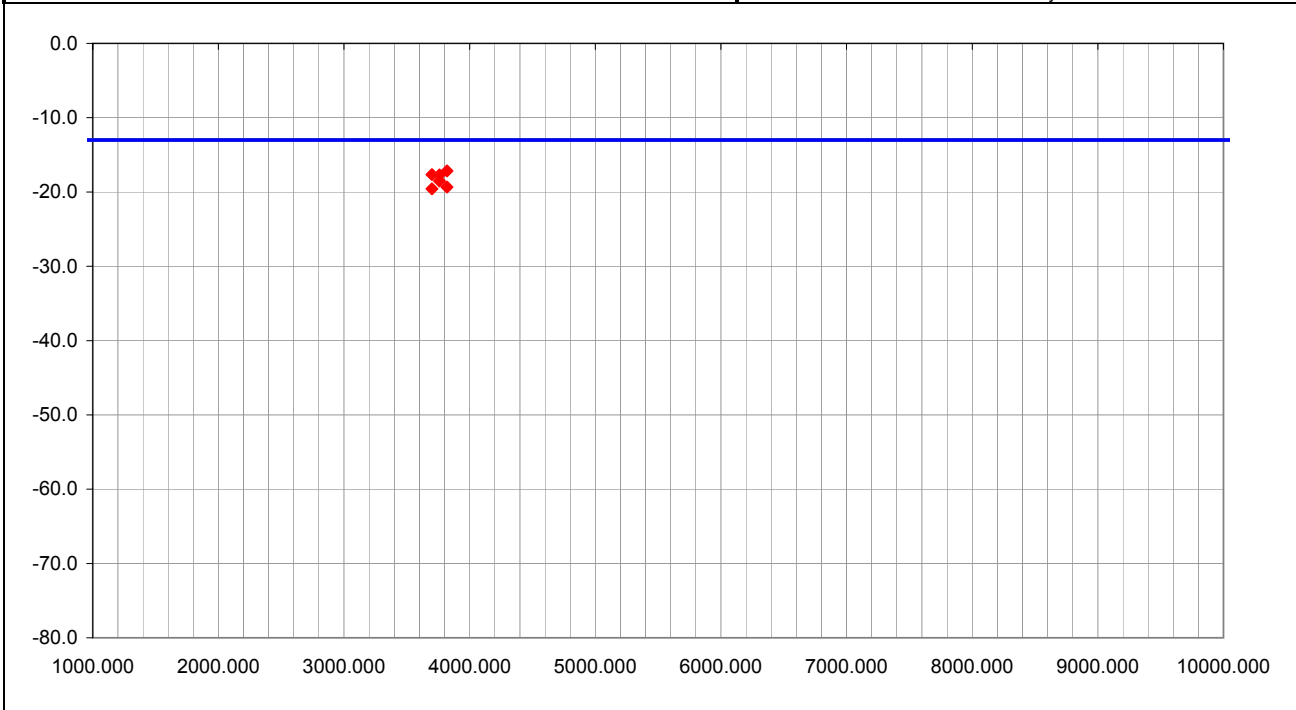
EUT OPERATING MODES
 Transmitting - PCS Band

DEVIATIONS FROM TEST STANDARD
 No deviations.

| | | |
|----------------|-------------------|-------|
| RESULTS | Test Distance (m) | Run # |
| Pass | 3 | 8 |

Other


 Tested By: _____



| Freq (MHz) | Azimuth (degrees) | Height (meters) | Polarity | Detector | EIRP (dBm) | Spec. Limit (dBm) | Compared to Spec. (dB) | Comments |
|------------|-------------------|-----------------|----------|----------|------------|-------------------|------------------------|--------------|
| 3819.400 | 118.0 | 1.2 | V-Horn | PK | -17.2 | -13.0 | -4.2 | High Channel |
| 3699.400 | 102.0 | 1.2 | V-Horn | PK | -17.6 | -13.0 | -4.6 | Low Channel |
| 3759.400 | 141.0 | 1.2 | V-Horn | PK | -17.7 | -13.0 | -4.7 | Mid Channel |
| 3759.400 | 324.0 | 1.3 | H-Horn | PK | -18.5 | -13.0 | -5.5 | Mid Channel |
| 3819.400 | 99.0 | 1.3 | H-Horn | PK | -19.3 | -13.0 | -6.3 | High Channel |
| 3699.400 | 301.0 | 1.3 | H-Horn | PK | -19.6 | -13.0 | -6.6 | Low Channel |

Apparent Power Data Sheet

| | | |
|-------------------------------------|----------------|---------------------------|
| EUT: SB555 Radio used in Model 700C | | Work Order: INMC0044 |
| Serial Number: 6301FEOC | | Date: 12/24/02 |
| Customer: INTERMEC Corporation | | Temperature: 66 |
| Attendees: None | | Humidity: 33% |
| Cust. Ref. No.: | | Barometric Pressure: 30.2 |
| Tested by: Rod Peloquin | Power: Battery | Job Site: EV01 |

| | |
|-----------------------------------|------------|
| TEST SPECIFICATIONS | |
| Specification: FCC Part 22.901(d) | Year: 2002 |
| Method: TIA/EIA-603 | Year: 1998 |

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation
 Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

COMMENTS

Antenna PSTGO-900 / 1900SCI

EUT OPERATING MODES

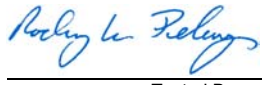
Transmitting - Cellular Band

DEVIATIONS FROM TEST STANDARD

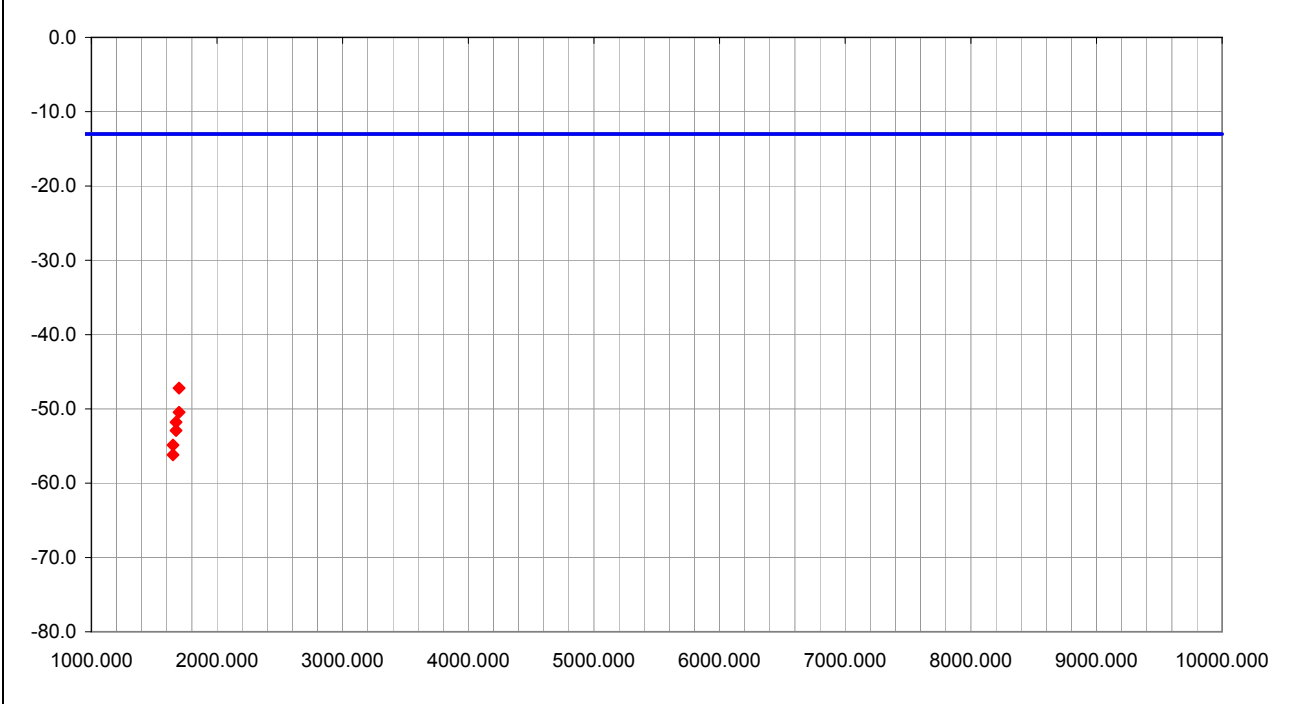
No deviations.

| | | |
|----------------|-------------------|-------|
| RESULTS | Test Distance (m) | Run # |
| Pass | 3 | 10 |

Other



 Tested By:



| Freq (MHz) | Azimuth (degrees) | Height (meters) | Polarity | Detector | EIRP (dBm) | Spec. Limit (dBm) | Compared to Spec. (dB) | Comments |
|------------|-------------------|-----------------|----------|----------|------------|-------------------|------------------------|--------------|
| 1697.400 | 184.0 | 1.5 | H-Horn | PK | -47.2 | -13.0 | -34.2 | High Channel |
| 1697.400 | 275.0 | 1.2 | V-Horn | PK | -50.5 | -13.0 | -37.5 | High Channel |
| 1673.400 | 161.0 | 1.2 | H-Horn | PK | -51.8 | -13.0 | -38.8 | Mid Channel |
| 1673.400 | 69.0 | 1.2 | V-Horn | PK | -52.9 | -13.0 | -39.9 | Mid Channel |
| 1649.400 | 176.0 | 1.2 | H-Horn | PK | -54.9 | -13.0 | -41.9 | Low Channel |
| 1649.400 | 74.0 | 1.2 | V-Horn | PK | -56.2 | -13.0 | -43.2 | Low Channel |

| | | |
|-------------------------------------|----------------------------|----------------------|
| EUT: SB555 Radio used in Model 700C | | Work Order: INMC0044 |
| Serial Number: 6301FEOC | Date: 12/24/02 | |
| Customer: INTERMEC Corporation | Temperature: 72 | |
| Attendees: None | Humidity: 32% | |
| Cust. Ref. No.: | Barometric Pressure: 29.75 | Job Site: EV01 |
| Tested by: Rod Peloquin | Power: Battery | |

| | |
|------------------------------------|------------|
| TEST SPECIFICATIONS | |
| Specification: FCC Part 15 Class B | Year: 2000 |
| Method: ANSI C63.4 | Year: 1992 |

SAMPLE CALCULATIONS
 Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation
 Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

COMMENTS
 Antenna PSTGO-900 / 1900SCI

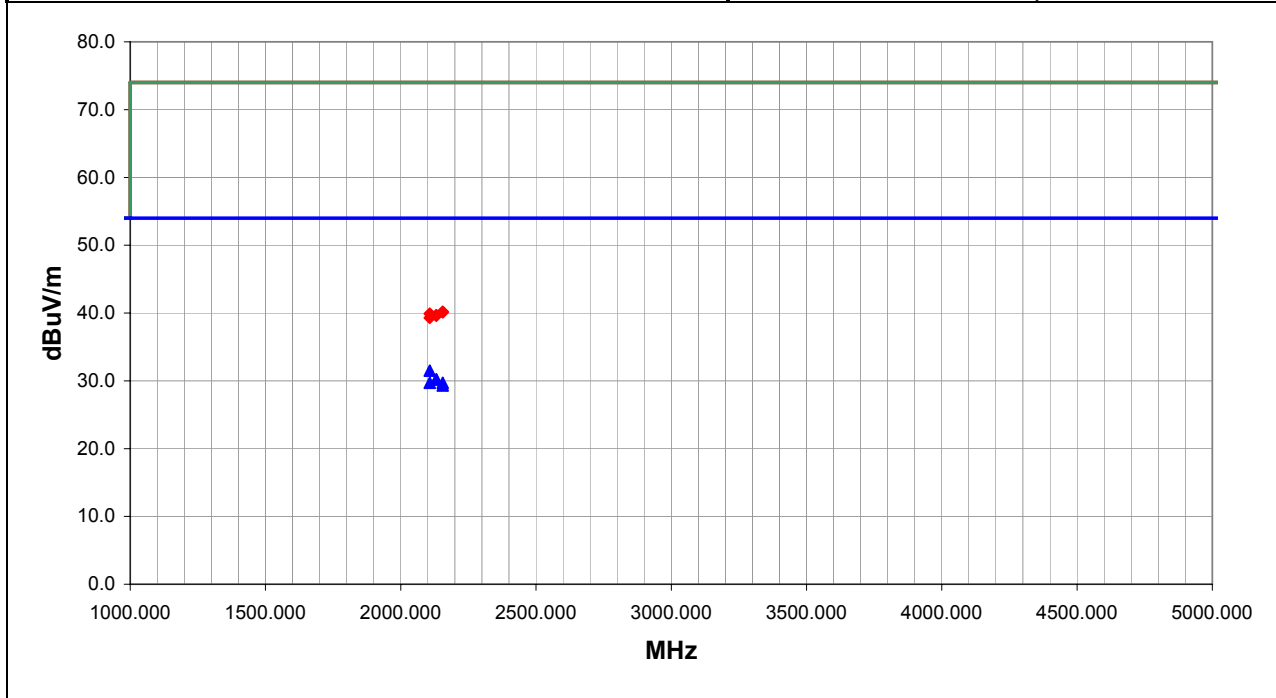
EUT OPERATING MODES
 Receive Mode - Cellular Band

DEVIATIONS FROM TEST STANDARD
 No deviations.

| | | |
|----------------|-------------------|-------|
| RESULTS | Test Distance (m) | Run # |
| Pass | 3 | 12 |

Other


 Tested By:



| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments |
|------------|------------------|-------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|--------------|
| 2107.230 | 31.8 | -0.3 | 172.0 | 1.6 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 31.5 | 54.0 | -22.5 | Low Channel |
| 2131.200 | 30.5 | -0.3 | 77.0 | 1.3 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 30.2 | 54.0 | -23.8 | Mid Channel |
| 2131.200 | 30.5 | -0.3 | 155.0 | 1.6 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 30.2 | 54.0 | -23.8 | Mid Channel |
| 2107.230 | 30.0 | -0.3 | 147.0 | 1.3 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 29.7 | 54.0 | -24.3 | Low Channel |
| 2155.150 | 30.0 | -0.3 | 255.0 | 1.3 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 29.7 | 54.0 | -24.3 | High Channel |
| 2155.150 | 29.6 | -0.3 | 157.0 | 1.2 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 29.3 | 54.0 | -24.7 | High Channel |
| 2155.150 | 40.5 | -0.3 | 255.0 | 1.3 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 40.2 | 74.0 | -33.8 | High Channel |
| 2155.150 | 40.4 | -0.3 | 157.0 | 1.2 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 40.1 | 74.0 | -33.9 | High Channel |
| 2107.230 | 40.2 | -0.3 | 172.0 | 1.6 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 39.9 | 74.0 | -34.1 | Low Channel |
| 2131.200 | 40.0 | -0.3 | 155.0 | 1.6 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 39.7 | 74.0 | -34.3 | Mid Channel |
| 2131.200 | 39.9 | -0.3 | 77.0 | 1.3 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 39.6 | 74.0 | -34.4 | Mid Channel |
| 2107.230 | 39.6 | -0.3 | 147.0 | 1.3 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 39.3 | 74.0 | -34.7 | Low Channel |

Apparent Power Data Sheet

| | | |
|-------------------------------------|----------------|----------------------------|
| EUT: SB555 Radio used in Model 700C | | Work Order: INMC0044 |
| Serial Number: 6301FEOC | | Date: 12/31/02 |
| Customer: INTERMEC Corporation | | Temperature: 73 |
| Attendees: None | | Humidity: 34% |
| Cust. Ref. No.: | | Barometric Pressure: 29.75 |
| Tested by: Rod Peloquin | Power: Battery | Job Site: EV01 |

| | |
|-----------------------------|------------|
| TEST SPECIFICATIONS | |
| Specification: FCC Part 24E | Year: 2002 |
| Method: TIA/EIA-603 | Year: 1998 |

SAMPLE CALCULATIONS
 Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation
 Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

COMMENTS
 Antenna PSTGO-900 / 1900SCI

EUT OPERATING MODES
 Transmitting in PCS mode and 802.11(b) mode

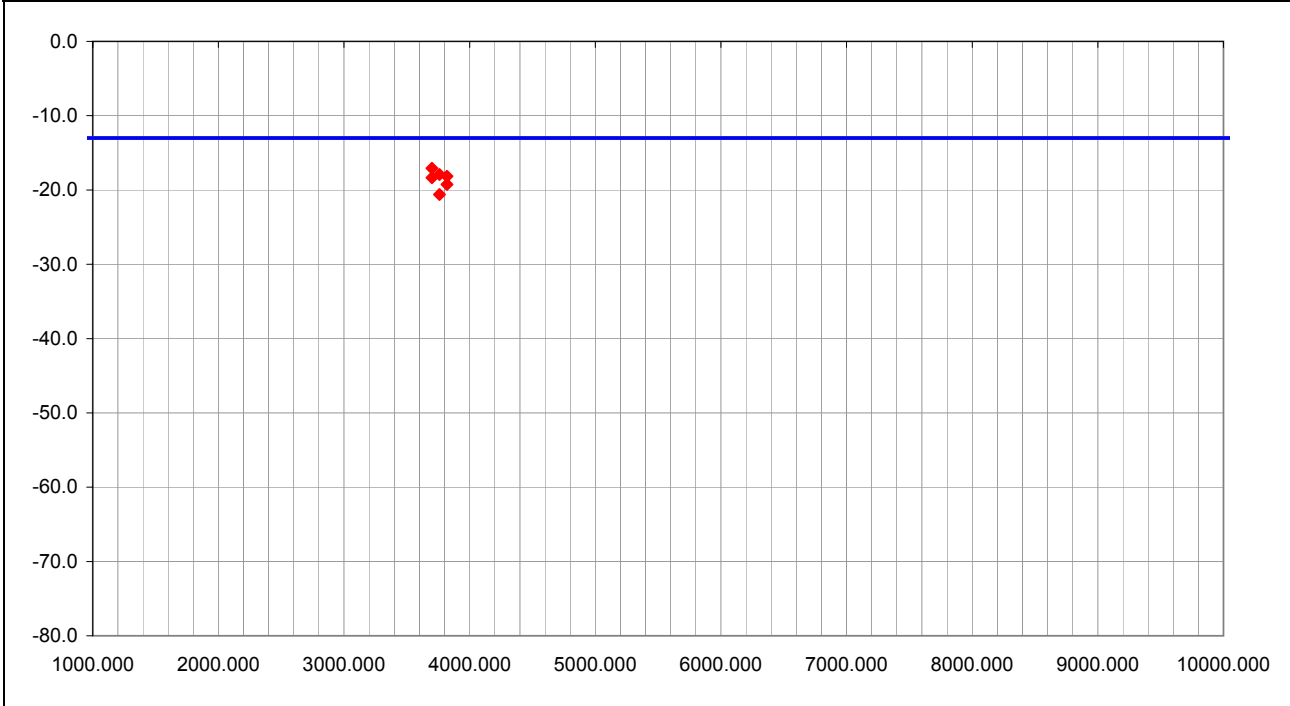
DEVIATIONS FROM TEST STANDARD
 No deviations.

| | | |
|----------------|-------------------|-------|
| RESULTS | Test Distance (m) | Run # |
| Pass | 3 | 14 |

Other



 Tested By:



| Freq (MHz) | Azimuth (degrees) | Height (meters) | Polarity | Detector | EIRP (dBm) | Spec. Limit (dBm) | Compared to Spec. (dB) | Comments |
|------------|-------------------|-----------------|----------|----------|------------|-------------------|------------------------|--------------|
| 3699.356 | 71.0 | 2.0 | H-Horn | PK | -17.1 | -13.0 | -4.1 | Low Channel |
| 3759.348 | 49.0 | 1.9 | H-Horn | PK | -17.9 | -13.0 | -4.9 | Mid Channel |
| 3819.360 | 20.0 | 1.9 | H-Horn | PK | -19.2 | -13.0 | -6.2 | High Channel |
| 3819.360 | 344.0 | 1.0 | V-Horn | PK | -18.2 | -13.0 | -5.2 | High Channel |
| 3699.356 | 153.0 | 1.0 | V-Horn | PK | -18.3 | -13.0 | -5.3 | Low Channel |
| 3759.400 | 355.0 | 1.3 | V-Horn | PK | -20.6 | -13.0 | -7.6 | Mid Channel |

Apparent Power Data Sheet

| | | |
|-------------------------------------|----------------|----------------------------|
| EUT: SB555 Radio used in Model 700C | | Work Order: INMC0044 |
| Serial Number: 6301FEOC | | Date: 12/31/02 |
| Customer: INTERMEC Corporation | | Temperature: 73 |
| Attendees: None | | Humidity: 34% |
| Cust. Ref. No.: | | Barometric Pressure: 29.75 |
| Tested by: Rod Peloquin | Power: Battery | Job Site: EV01 |

| | |
|-----------------------------------|------------|
| TEST SPECIFICATIONS | |
| Specification: FCC Part 22.901(d) | Year: 2002 |
| Method: TIA/EIA-603 | Year: 1998 |

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation
 Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

COMMENTS

Antenna PSTGO-900 / 1900SCI

EUT OPERATING MODES


Transmitting in Cellular mode and 802.11(b) mode

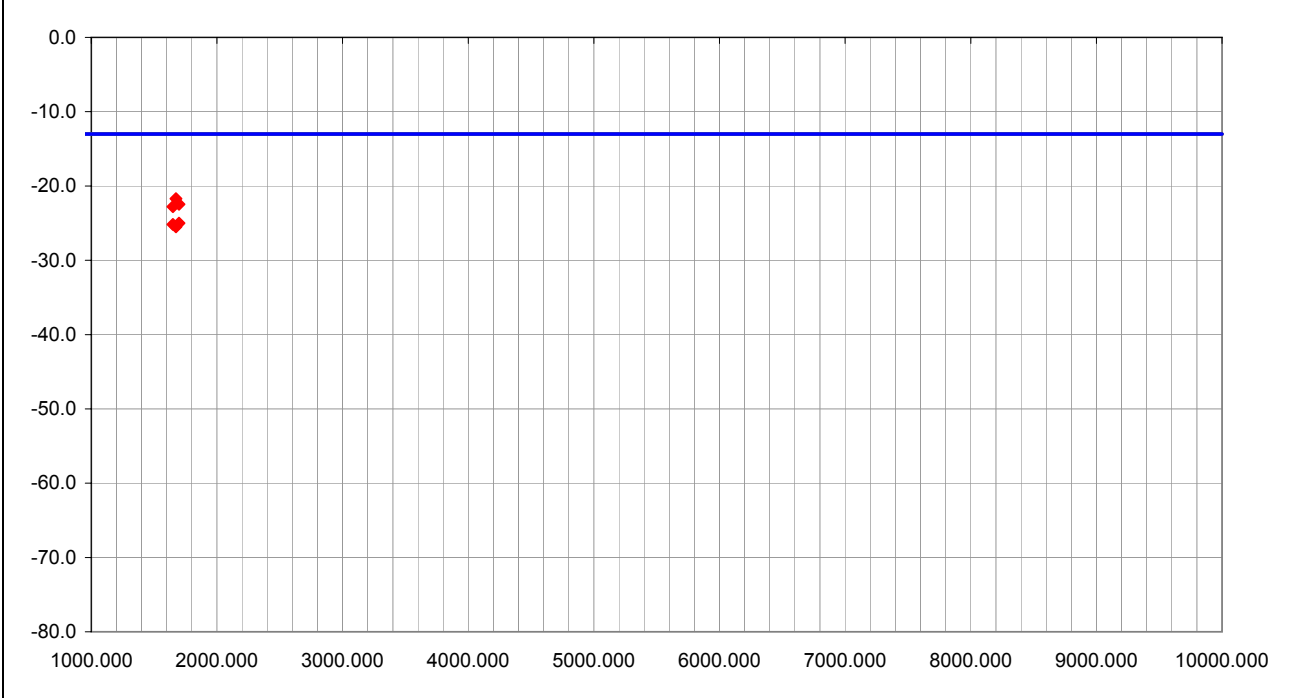
DEVIATIONS FROM TEST STANDARD

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---------|-------------------|-------|
| Pass | 3 | 16 |

Other


 Tested By: _____



| Freq (MHz) | Azimuth (degrees) | Height (meters) | Polarity | Detector | EIRP (dBm) | Spec. Limit (dBm) | Compared to Spec. (dB) | Comments |
|------------|-------------------|-----------------|----------|----------|------------|-------------------|------------------------|--------------|
| 1673.360 | 319.0 | 1.2 | V-Horn | PK | -21.7 | -13.0 | -8.7 | Mid Channel |
| 1697.360 | 113.0 | 1.3 | H-Horn | PK | -25.0 | -13.0 | -12.0 | High Channel |
| 1697.360 | 19.0 | 1.2 | V-Horn | PK | -22.5 | -13.0 | -9.5 | High Channel |
| 1649.360 | 78.0 | 1.3 | H-Horn | PK | -25.2 | -13.0 | -12.2 | Low Channel |
| 1649.360 | 116.0 | 1.2 | V-Horn | PK | -22.8 | -13.0 | -9.8 | Low Channel |
| 1673.360 | 176.0 | 1.3 | H-Horn | PK | -25.5 | -13.0 | -12.5 | Mid Channel |

OATS DATA SHEET

| | | |
|-------------------------------------|----------------|----------------------------|
| EUT: SB555 Radio used in Model 700C | | Work Order: INMC0044 |
| Serial Number: 6301FEOC | | Date: 01/02/03 |
| Customer: INTERMEC Corporation | | Temperature: 72 |
| Attendees: None | | Humidity: 35% |
| Cust. Ref. No.: | | Barometric Pressure: 29.92 |
| Tested by: Rod Peloquin | Power: Battery | Job Site: EV01 |

| | |
|-----------------------------------|------------|
| TEST SPECIFICATIONS | |
| Specification: FCC Part 15.247(c) | Year: 2001 |
| Method: ANSI C63.4 | Year: 1992 |

SAMPLE CALCULATIONS
 Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation
 Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

COMMENTS
 Antenna PSTGO-900 / 1900SCI

EUT OPERATING MODES
 Transmitting in Cellular mode and 802.11(b) mode

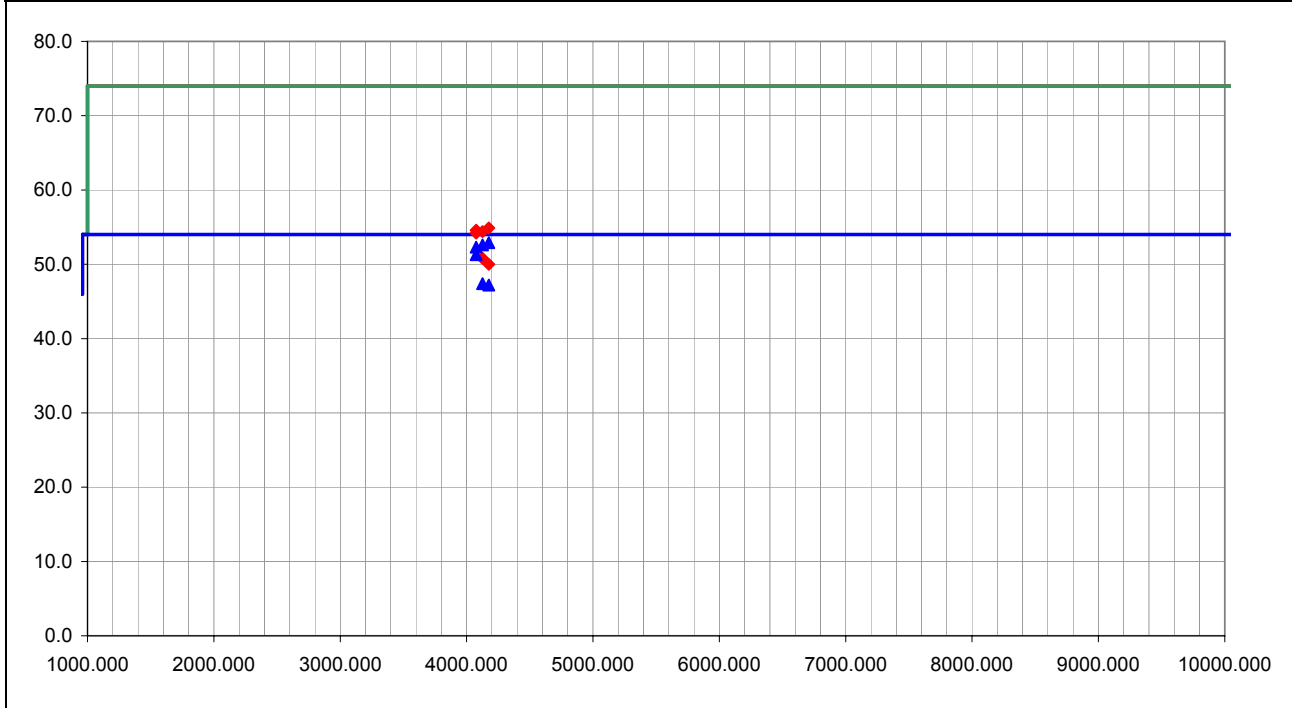
DEVIATIONS FROM TEST STANDARD
 No deviations.

| | | |
|----------------|-------------------|-------|
| RESULTS | Test Distance (m) | Run # |
| Pass | 3 | 18 |

Other



 Tested By:



| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments |
|------------|------------------|-------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|--------------|
| 4176.000 | 47.0 | 5.9 | 16.0 | 1.3 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 52.9 | 54.0 | -1.1 | High Channel |
| 4126.000 | 46.6 | 6.0 | 360.0 | 1.7 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 52.6 | 54.0 | -1.4 | Mid Channel |
| 4076.000 | 46.3 | 6.0 | 86.0 | 1.3 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 52.3 | 54.0 | -1.7 | Low Channel |
| 4076.000 | 45.3 | 6.0 | 66.0 | 1.8 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 51.3 | 54.0 | -2.7 | Low Channel |
| 4126.000 | 41.4 | 6.0 | 348.0 | 1.3 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 47.4 | 54.0 | -6.6 | Mid Channel |
| 4176.000 | 41.3 | 5.9 | 342.0 | 1.1 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 47.2 | 54.0 | -6.8 | High Channel |
| 4176.000 | 49.0 | 5.9 | 16.0 | 1.3 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 54.9 | 74.0 | -19.1 | High Channel |
| 4076.000 | 48.6 | 6.0 | 86.0 | 1.3 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 54.6 | 74.0 | -19.4 | Low Channel |
| 4126.000 | 48.4 | 6.0 | 360.0 | 1.7 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 54.4 | 74.0 | -19.6 | Mid Channel |
| 4076.000 | 48.2 | 6.0 | 66.0 | 1.8 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 54.2 | 74.0 | -19.8 | Low Channel |
| 4126.000 | 44.8 | 6.0 | 348.0 | 1.3 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 50.8 | 74.0 | -23.2 | Mid Channel |
| 4176.000 | 44.1 | 5.9 | 329.0 | 1.2 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 50.0 | 74.0 | -24.0 | High Channel |

| | | |
|-------------------------------------|----------------|----------------------------|
| EUT: SB555 Radio used in Model 700C | | Work Order: INMC0044 |
| Serial Number: 6301FEOC | | Date: 01/02/03 |
| Customer: INTERMEC Corporation | | Temperature: 73 |
| Attendees: None | | Humidity: 34% |
| Cust. Ref. No.: | | Barometric Pressure: 29.75 |
| Tested by: Rod Peloquin | Power: Battery | Job Site: EV01 |

| | |
|-----------------------------------|------------|
| TEST SPECIFICATIONS | |
| Specification: FCC Part 15.247(c) | Year: 2001 |
| Method: ANSI C63.4 | Year: 1992 |

SAMPLE CALCULATIONS
 Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation
 Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator


COMMENTS
 Antenna PSTGO-900 / 1900SCI

EUT OPERATING MODES
 Transmitting in PCS mode and 802.11(b) mode

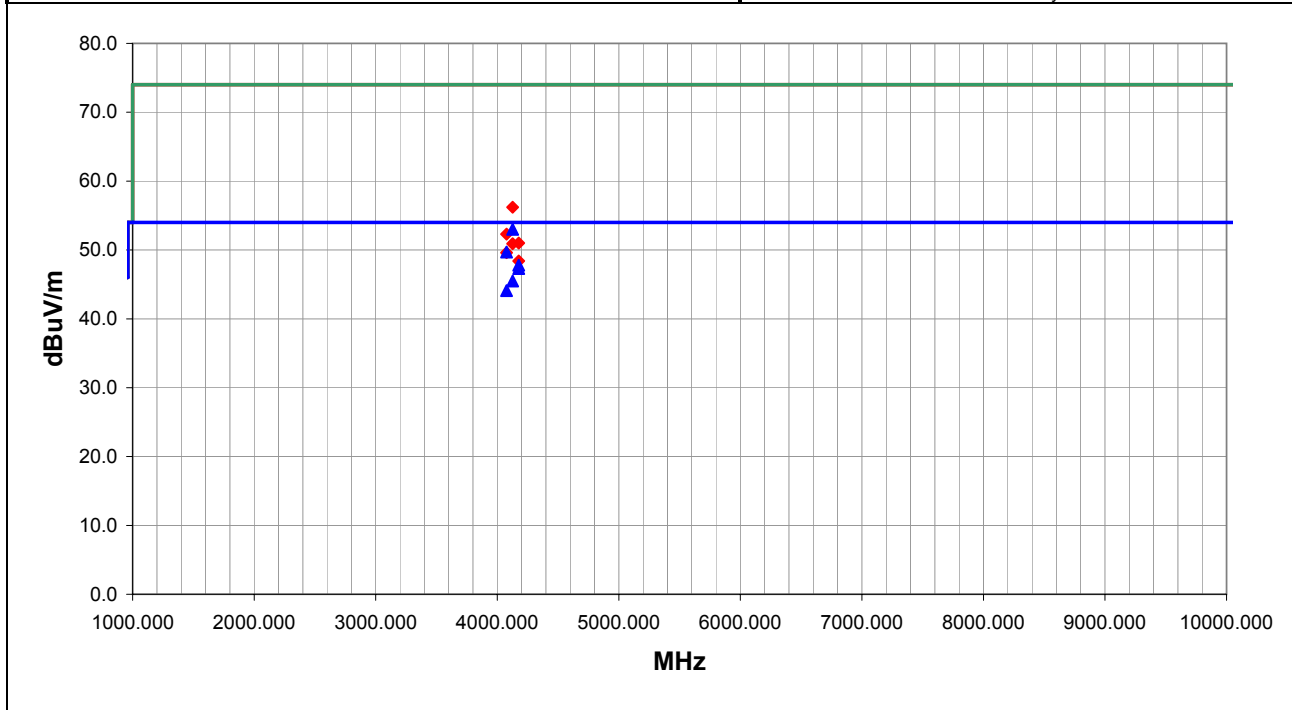
DEVIATIONS FROM TEST STANDARD
 No deviations.

| | | |
|----------------|-------------------|-------|
| RESULTS | Test Distance (m) | Run # |
| Pass | 3 | 20 |

Other



 Tested By:



| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments |
|------------|------------------|-------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|--------------|
| 4126.000 | 47.0 | 6.0 | 31.0 | 1.5 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 53.0 | 54.0 | -1.0 | Mid Channel |
| 4076.000 | 43.7 | 6.0 | 226.0 | 1.1 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 49.7 | 54.0 | -4.3 | Low Channel |
| 4176.000 | 41.9 | 5.9 | 57.0 | 1.2 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 47.8 | 54.0 | -6.2 | High Channel |
| 4176.000 | 41.4 | 5.9 | 143.0 | 1.3 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 47.3 | 54.0 | -6.7 | High Channel |
| 4126.000 | 39.5 | 6.0 | 135.0 | 1.2 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 45.5 | 54.0 | -8.5 | Mid Channel |
| 4076.000 | 38.1 | 6.0 | 221.0 | 1.3 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 44.1 | 54.0 | -9.9 | Low Channel |
| 4126.000 | 50.2 | 6.0 | 31.0 | 1.5 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 56.2 | 74.0 | -17.8 | Mid Channel |
| 4076.000 | 46.3 | 6.0 | 226.0 | 1.1 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 52.3 | 74.0 | -21.7 | Low Channel |
| 4176.000 | 45.1 | 5.9 | 143.0 | 1.3 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 51.0 | 74.0 | -23.0 | High Channel |
| 4126.000 | 44.9 | 6.0 | 135.0 | 1.2 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 50.9 | 74.0 | -23.1 | Mid Channel |
| 4076.000 | 43.6 | 6.0 | 221.0 | 1.3 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 49.6 | 74.0 | -24.4 | Low Channel |
| 4176.000 | 42.5 | 5.9 | 145.0 | 1.2 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 48.4 | 74.0 | -25.6 | High Channel |

Apparent Power Data Sheet

| | |
|-------------------------------------|----------------------------|
| EUT: SB555 Radio used in Model 700C | Work Order: INMC0044 |
| Serial Number: 6301FEOC | Date: 12/31/02 |
| Customer: INTERMEC Corporation | Temperature: 75 |
| Attendees: None | Humidity: 33% |
| Cust. Ref. No.: | Barometric Pressure: 29.75 |
| Tested by: Rod Peloquin | Power: Battery |
| | Job Site: EV01 |

TEST SPECIFICATIONS

| | |
|-----------------------------|------------|
| Specification: FCC Part 24E | Year: 2002 |
| Method: TIA/EIA-603 | Year: 1998 |

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

COMMENTS

Antenna PSTGO-900 / 1900SCI

EUT OPERATING MODES

Transmitting in Channel 526 (1876MHz) PCS mode and Channel 1 (2412MHz) 802.11(b) mode

DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS

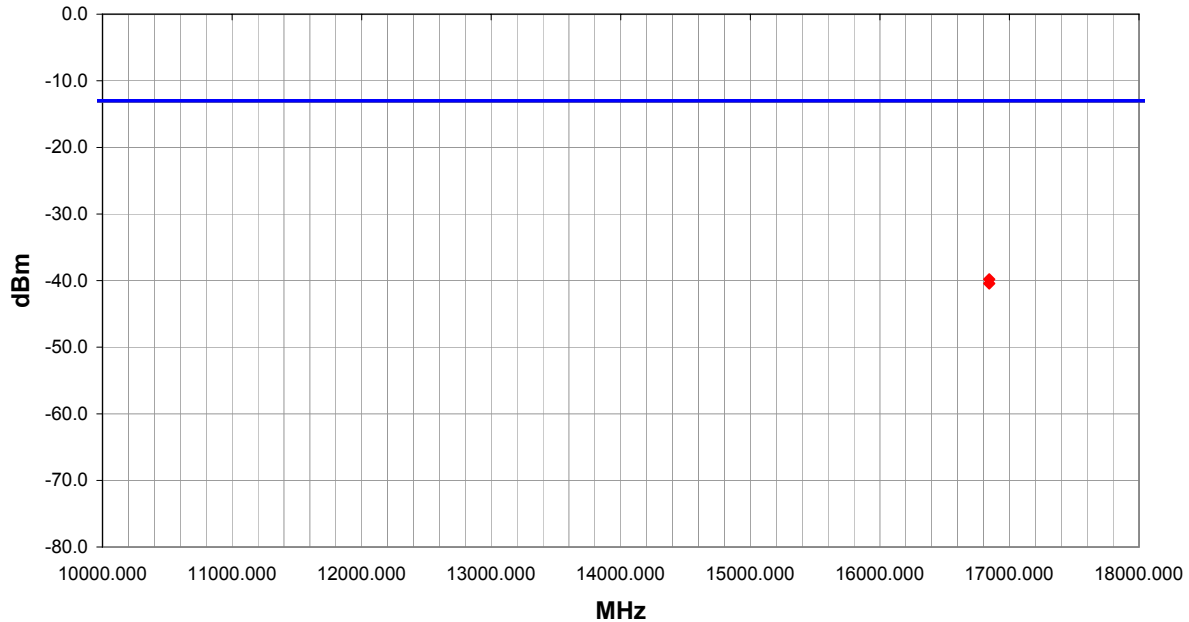
| Test Distance (m) | Run # |
|-------------------|-------|
| 1 | 22 |

Pass

Other



Tested By:



| Freq (MHz) | Azimuth (degrees) | Height (meters) | Polarity | Detector | EIRP (dBm) | Spec. Limit (dBm) | Compared to Spec. (dB) |
|------------|-------------------|-----------------|----------|----------|------------|-------------------|------------------------|
| 16844.000 | 135.0 | 1.2 | H-Horn | PK | -40.4 | -13.0 | -27.4 |
| 16844.000 | 140.0 | 1.2 | V-Horn | PK | -39.8 | -13.0 | -26.8 |

Apparent Power Data Sheet

| | | | |
|-----------------|--------------------------------|----------------------|----------|
| EUT: | SB555 Radio used in Model 700C | Work Order: | INMC0044 |
| Serial Number: | 6301FEOC | Date: | 12/31/02 |
| Customer: | INTERMEC Corporation | Temperature: | 73 |
| Attendees: | None | Humidity: | 34% |
| Cust. Ref. No.: | | Barometric Pressure: | 29.75 |
| Tested by: | Rod Peloquin | Power: | Battery |
| | | Job Site: | EV01 |

| | |
|----------------------------|--------------|
| TEST SPECIFICATIONS | |
| Specification: | FCC Part 24E |
| Method: | TIA/EIA-603 |
| Year: | 2002 |
| Year: | 1998 |

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation
 Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

COMMENTS

Antenna PSTGO-900 / 1900SCI

EUT OPERATING MODES


Transmitting in Channel 930 (1896MHz) PCS mode and Channel 6 (2437MHz) 802.11(b) mode

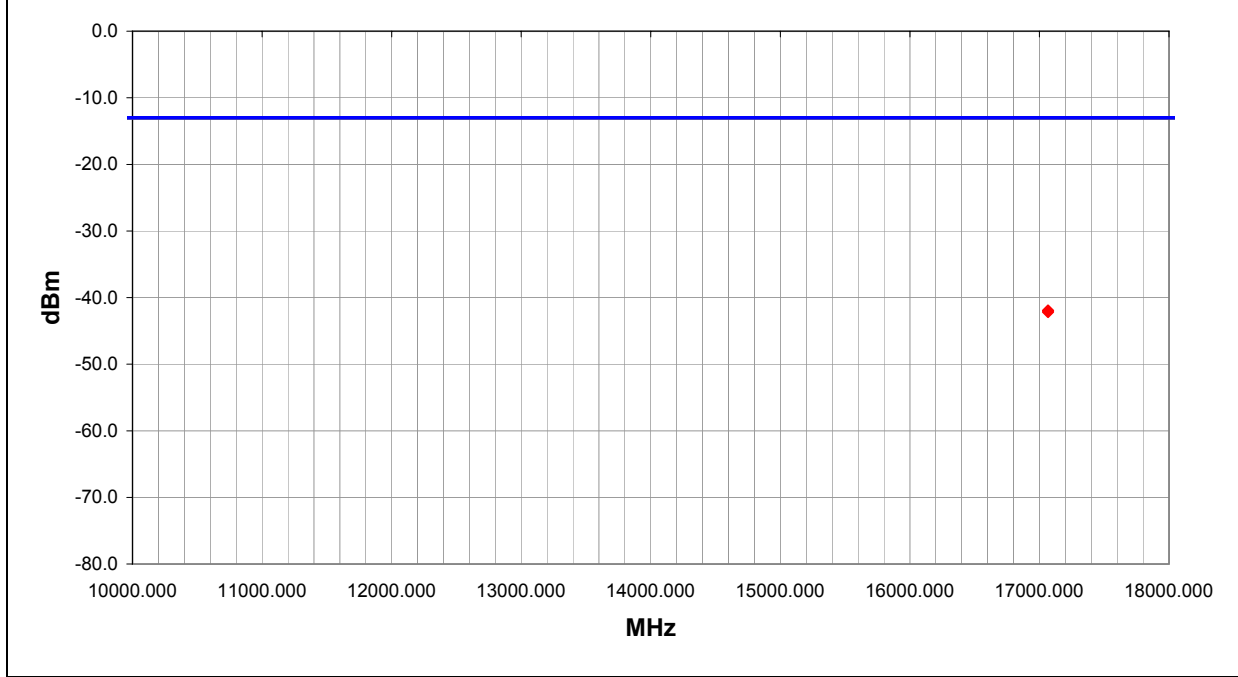
DEVIATIONS FROM TEST STANDARD

No deviations.

| | | |
|----------------|-------------------|-------|
| RESULTS | Test Distance (m) | Run # |
| Pass | 1 | 24 |

Other


 Tested By:



| Freq (MHz) | Azimuth (degrees) | Height (meters) | Polarity | Detector | EIRP (dBm) | Spec. Limit (dBm) | Compared to Spec. (dB) |
|------------|-------------------|-----------------|----------|----------|------------|-------------------|------------------------|
| 17066.000 | 180.0 | 1.0 | H-Horn | PK | -42.2 | -13.0 | -29.2 |
| 17066.000 | 180.0 | 1.0 | V-Horn | PK | -41.9 | -13.0 | -28.9 |