

**COMPLIANCE WORLDWIDE INC.
TEST REPORT 120-08R1**

In Accordance with the Requirements of
FCC PART 90
Subpart I—General Technical Standards
Sections 205, 209, 210, 213 and 214

Issued to

Ultra Electronics SML Technologies
316 Botley Road,
Burridge, Southampton,
Hampshire, SO13 1BQ, UK

Tel : +44 (0)1489 557373

Fax : +44 (0)1489 557374

for

G-Max GAS6146 UHF Transceiver 400-470 MHz

FCC ID: VZ7001

Report Issued on March 13, 2008

Tested by



Brian F. Breault

Reviewed by



Larry K. Stillings

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1. Scope

This test report certifies that the Ultra Electronics SML Technologies G-Max UHF Transceiver, as tested, meets the FCC Part 90, Subparts 205, 209, 210, 213 and 214 requirements. The scope of this test report is limited to the test sample provided by the client, only in as much as that sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

2. Product Details

- 2.1. Manufacturer:** Ultra Electronics SML Technologies
- 2.2. Model Number:** G-Max UHF Transceiver
- 2.3. Serial Number:** 1990
- 2.4. Description:** The Integrated Modem Ships Identification Unit (SID) is an intelligent transponder which can be fitted to any fixed or moving object and will transmit its position, identity and call sign. It has been designed to incorporate the customer requirements of the offshore oil and gas industry.
- 2.5. Power Source:** +12 VDC to +36 VDC (Tested at +13.8 VDC)
- 2.6. EMC Modifications:** None

3. Product Configuration

3.1. Support Equipment

| Device | Manufacturer | Model | Serial No. | Comment |
|----------------------------------|--------------|---------------|--------------|------------------------------|
| Notebook PC | Compaq | Presario 1600 | 1V02DCJ7L3K0 | For setup only |
| Power Supply | Sorensen | DCS33-33E | N0026B1064 | 12 Amps @24 VDC |
| Antenna (1 st Choice) | Procom | CXL 70-3/h | N/A | Rod type UHF antenna, +5 dBi |
| Antenna (2 nd Choice) | Procom | CXL 70-1/h | N/A | Rod type UHF antenna, +2 dBi |

3.2. Cables

| Cable Type | Length | Shield | From | To |
|--|--------|--------|------|-------------|
| RF, 50 Ω , BNC male - N male ¹ | 4m | Yes | DUT | Antenna |
| Serial/Power ² | 115 cm | No | DUT | Notebook PC |

¹ Customer supplied cable - Manufacturer: NEXANS, Part Number: 5600-AZZD

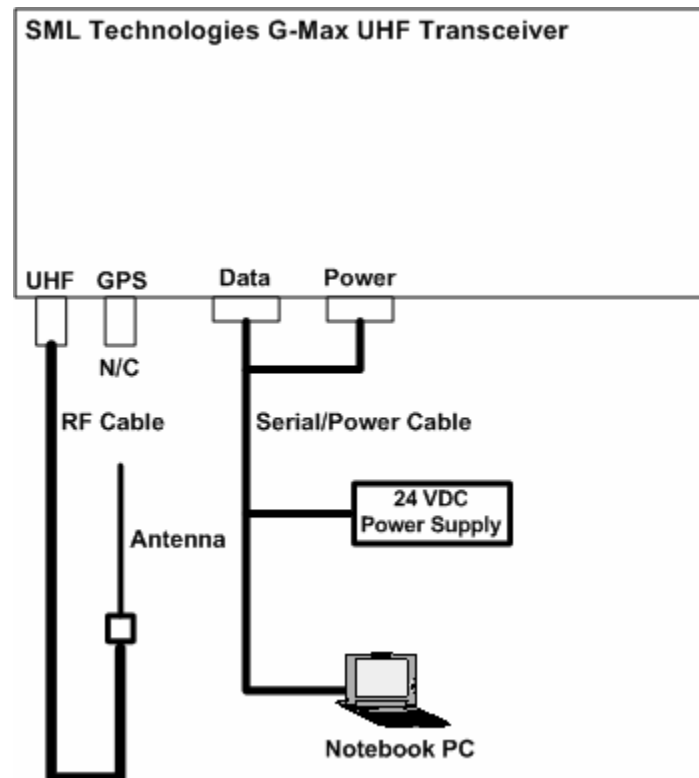
² Notebook PC is connected only during setup

3. Product Configuration (continued)

3.3. Operational Characteristics & Software

- (1) By pressing "1" on key-board, the radio will turn ON its transmitter (unmodulated carrier only) at the frequency shown on (a|z) "Channel....n". ON & OFF can be toggled by pressing this key.
- (2) By pressing "2" on key-board, the radio will turn ON its transmitter modulating a 1KHz tone test pattern at the frequency shown on (a|z) "Channel....n". ON & OFF can be toggled by pressing this key.
- (3) By pressing "3" on Key-board, the radio will send a short "burst" test message at the frequency shown on (a|z) "Channel....n". A burst message is sent each time the key is pressed.
- (4) By pressing "4" on key-board, the radio will send short messages at different intervals selected using the (s|x) "Cyclic Interval" selection at the frequency shown on (a|z) "Channel....n".
- (c) Pressing "c" on the key-board enables RF power calibration for each of the RF power selections configured using SIDYNT. This function should not be used, without consulting manufacture.

3.4. Block Diagram



4. Measurements Parameters

4.1. Measurement Equipment Used to Perform Test

| Device | Manufacturer | Model No. | Serial No. | Cal Due |
|------------------------|------------------|-------------|------------|------------|
| EMI Receiver | Hewlett Packard | 8546A | 3650A00360 | 3/14/2008 |
| Spectrum Analyzer | Hewlett Packard | 8593E | 3829A03887 | 3/8/2008 |
| Bilog Antenna | Com-Power | AC220 | 25509 | 8/2/2008 |
| High Pass Filter | Mini-Circuits | VHF-740 | 3 0629 | 10/24/2009 |
| Signal Generator | Hewlett Packard | 8648C | 3623A03429 | 2/19/2009 |
| Multimeter | Fluke | 187 | 79690058 | 2/19/2009 |
| Temperature Chamber | Assoc. Test Labs | SLHU-1-CRLC | N/A | N/A |
| Attenuator Set 50Ω, 2W | Mini-Circuits | BW-SXW2 | N/A | N/A |
| 3-Way Power Splitter | Mini-Circuits | ZFSC-3-1 | 15542 | 01/25/2009 |
| Oscilloscope | Tektronix | 2230 | B031344 | 7/11/2008 |
| RF Detector | Hewlett Packard | HMS2865 | N/A | N/A |
| Modulation Analyzer | Hewlett Packard | 8901A | 2239A02235 | 01/25/2009 |

4.2. Measurement & Equipment Setup

Test Date: 1/10/2008
 Test Engineer: Brian Breault
 Normal Site Temperature (15 - 35°C): 21.6
 Relative Humidity (20 -75%RH): 25

4.3. Test Procedure

The test measurements contained in this report are based on the requirements detailed in FCC Part 90, Sections 205, 209, 210, 213 and 214.

The test methods used to generate the data in this test report are in accordance with ANSI C63.4: 2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

Measurements were made in accordance with TIA-603-C: Land Mobile FM or PM Communications Equipment Measurement. and Performance Standard.

For all radiated measurements, the UHF antenna connected to the device under test was mounted vertically on an 80cm table in order to simulate a typical installation.

Test Number: 120-08R1

Issue Date: 3/13/2008

5. Measurement Summary

| Section Description or Test Requirement | FCC Part 90 Reference | Test Report Section | Result | Comment |
|---|-----------------------|---------------------|-----------|---|
| Power and Antenna Height Limits | Section 205 | 6.1 | Compliant | |
| Bandwidth Limitations | Section 209 | 6.2 | Compliant | |
| Emission Masks | Section 210 | 6.3 | Compliant | Includes spurious and harmonic emissions. |
| Frequency Stability | Section 213 | 6.4 | Compliant | |
| Transient Frequency Behavior | Section 214 | 6.5 | Compliant | |
| Conducted Spurious Emissions | Section 2.1051 | 6.6 | Compliant | |
| Radiated Spurious Emissions | Section 2.1053 | 6.7 | Compliant | |

6. Measurement Data

6.1. Power and Antenna Height Limits (450 MHz to 470 MHz)

Requirement: The maximum allowable station effective radiated power (ERP) is dependent upon the station's antenna HAAT (Antenna Height Above Average Terrain) and required service area and will be authorized in accordance with the following table (Reference FCC CFR 90, Section 90.205, Table 2) and FCC Part 2.1046(a),(c).

| | Service area radius (km) | | | | | | | | | |
|---------------------------------------|--------------------------|-----|------|------|------|------|-----------------|-----------------|-----------------|-----------------|
| | 3 | 8 | 13 | 16 | 24 | 32 | 40 ⁴ | 48 ⁴ | 64 ⁴ | 80 ⁴ |
| Maximum ERP (w) ¹ | 2 | 100 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Up to reference HAAT (m) ³ | 15 | 15 | 15 | 27 | 63 | 125 | 250 | 410 | 950 | 2700 |

¹ Maximum ERP indicated provides for a 39 dBu signal strength at the edge of the service area per FCC Report R-6602, Fig. 29 (See § 73.699, Fig. 10 b).

² Maximum ERP of 500 watts allowed. Signal strength at the service area contour may be less than 39 dBu.

³ When the actual antenna HAAT is greater than the reference HAAT, the allowable ERP will be reduced in accordance with the following equation: $ERP_{allow} = ERP_{max} \times (HAAT_{ref} / HAAT_{actual})^2$.

⁴ Applications for this service area radius may be granted upon specific request with justification and must include a technical demonstration that the signal strength at the edge of the service area does not exceed 39 dBu

The output power of the device under test is limited by the firmware to 500 mW (+26.99 dBm) at a firmware setting of 628. The measurements to support this claim are supplied below. A +13.8 volt fixed DC supply was used to power the DUT for the power measurements.

6.1.1. Peak Transmitter Output Power, Transmitter Only (Unmodulated carrier)

| Channel | Frequency | Output Power | |
|---------|-----------|--------------|-------|
| | (MHz) | (mW) | (dBm) |
| 0 | 458.50 | 498.66 | 26.98 |
| 10 | 458.75 | 498.75 | 26.98 |
| 20 | 459.00 | 498.80 | 26.98 |

6. Measurement Data

6.1. Power and Antenna Height Limits (450 MHz to 470 MHz) (continued)

6.1.2. Maximum ERP

ERP is defined in FCC Title 47, Chapter I, Part 2, Subpart A, Section 2.1 as "Effective Radiated Power. The product of the power supplied to the antenna and its gain relative to a half-wave dipole in a given direction."

ERP = Transmitter Power (dBm) - Cable Loss (dB) + Antenna Gain (dBi)

The manufacturer of the device under test recommends 2 antennas for use with their product. The following table provides the worst case effective radiated power based on the measured transmitter output power and the antenna gain:

| Channel | Frequency | Transmitter Power ¹ | Cable Insertion Loss ² | Antenna Gain ³ | Total Output Power | |
|---------|-----------|--------------------------------|-----------------------------------|---------------------------|--------------------|---------|
| | (MHz) | (dBm) | (dB) | (dBi) | (dBm) | (Watts) |
| 0 | 458.50 | 26.98 | 1.17 | +5 | 30.81 | 1.21 |
| 10 | 458.75 | 26.98 | 1.17 | +5 | 30.81 | 1.21 |
| 20 | 459.00 | 26.98 | 1.17 | +5 | 30.81 | 1.21 |

¹ Measured. See section 6.1.1.

² Customer supplied cable for use with Procom CXL 70-3/h. Insertion Loss was measured.

³ Customer supplied Procom CXL 70-3/h. A second customer supplied antenna, Procom CXL 70-1/h had a gain of +2 dBi. Gain data was supplied by the antenna manufacturer.

6. Measurement Data (continued)

6.2. Bandwidth Limitations (FCC Part 2.1049, 90.210(i) and (j))

Requirement: Each authorization issued to a station licensed under this part will show an emission designator representing the class of emission authorized. The designator will be prefixed by a specified necessary bandwidth. This number does not necessarily indicate the bandwidth occupied by the emission at any instant. The device uses Modulation schemes of GSMK and 4LFSK therefore the Emissions designator for this device is **7K8F1D**

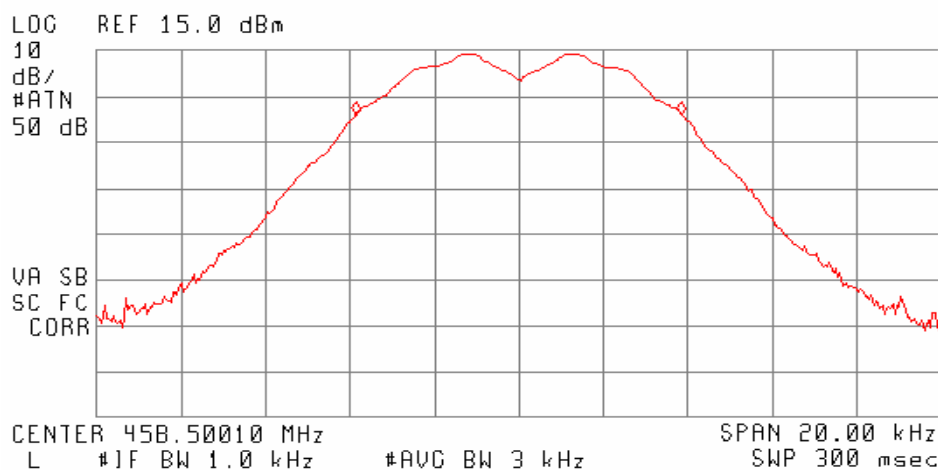
6.2.1. Occupied (99% Power) Bandwidth

| Channel | Frequency | Occupied Bandwidth | Result |
|---------|-----------|--------------------|-----------|
| | (MHz) | (kHz) | |
| 0 | 458.50 | 7.70 | Compliant |
| 10 | 458.75 | 7.75 | Compliant |
| 20 | 459.00 | 7.80 | Compliant |

6.2.1.1. Occupied (99% Power) Bandwidth Measurement, Channel 0

10:57:13 FEB 21, 2008

ACTV DET: PEAK
MEAS DET: PEAK DP AVG
MKRΔ 7.70 kHz
.30 dB



6. Measurement Data (continued)

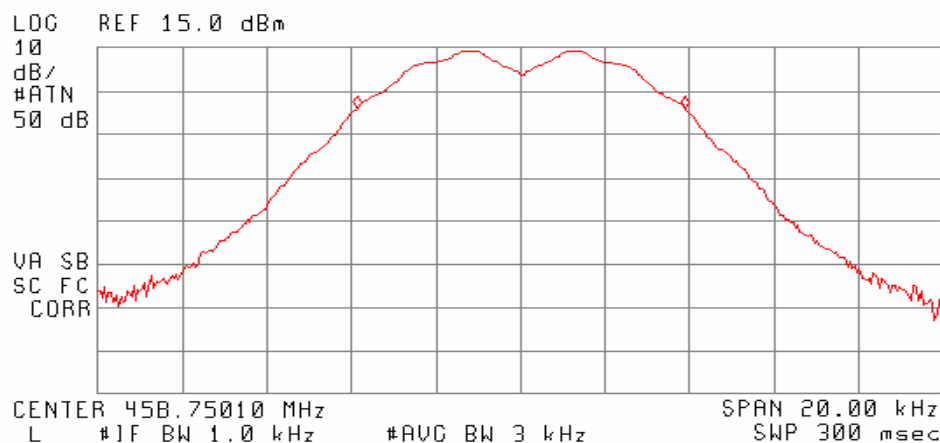
6.2. Bandwidth Limitations (FCC Part 2.1049, 90.210(i) and (j)) (continued)

6.2.1. Occupied (99% Power) Bandwidth (continued)

6.2.1.2. Occupied (99% Power) Bandwidth Measurement, Channel 10

10:54:25 FEB 21, 2008

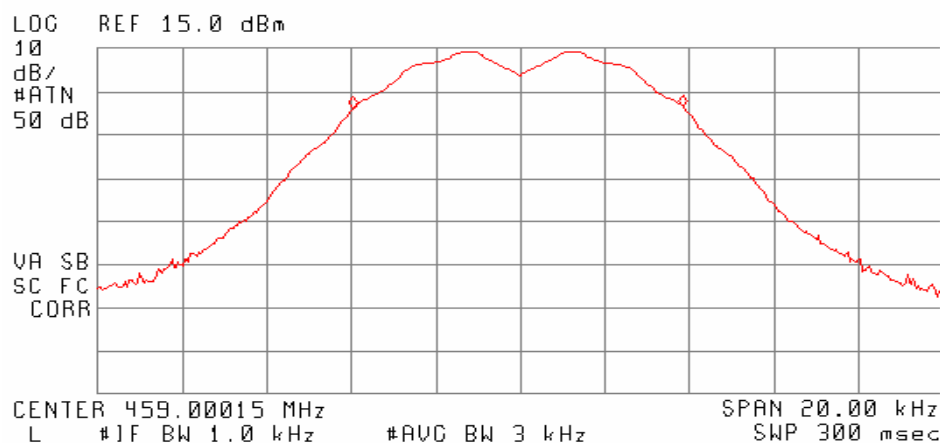
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR Δ 7.75 kHz
- .05 dB



6.2.1.3. Occupied (99% Power) Bandwidth Measurement, Channel 20

10:52:39 FEB 21, 2008

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR Δ 7.80 kHz
.28 dB



6. Measurement Data (continued)

6.3. Emissions Masks (90.210)

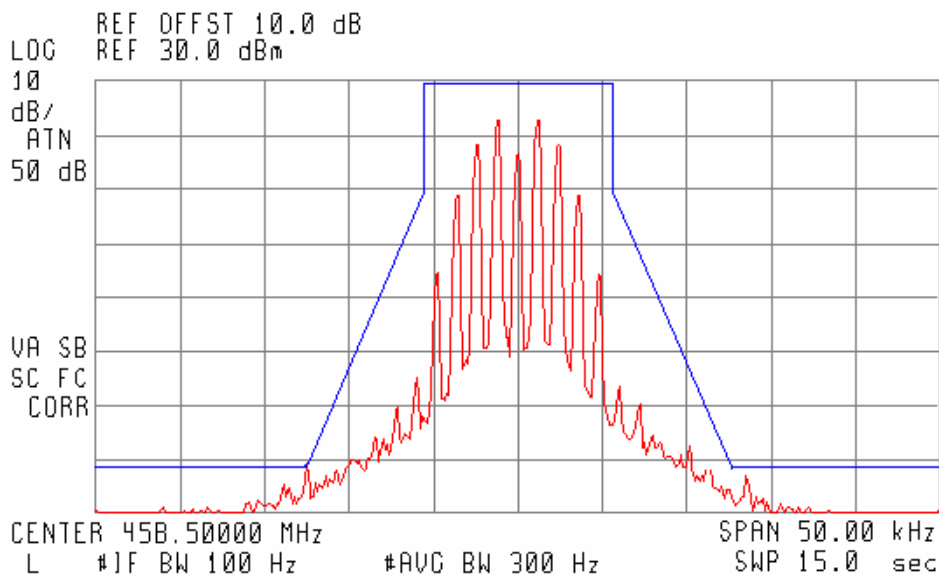
Requirement: Emission Mask D: 12.5 kHz channel bandwidth equipment.

1. On any frequency from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.
2. On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88 \text{ kHz})$ dB.
3. On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least $50 + 10 \log(P)$ dB or 70 dB, whichever is the lesser attenuation.

6.3.1. Channel 0 - 458.50 MHz

16:00:33 JAN 24, 2008

ACTV DET: PEAK
MEAS DET: PEAK QP AVG



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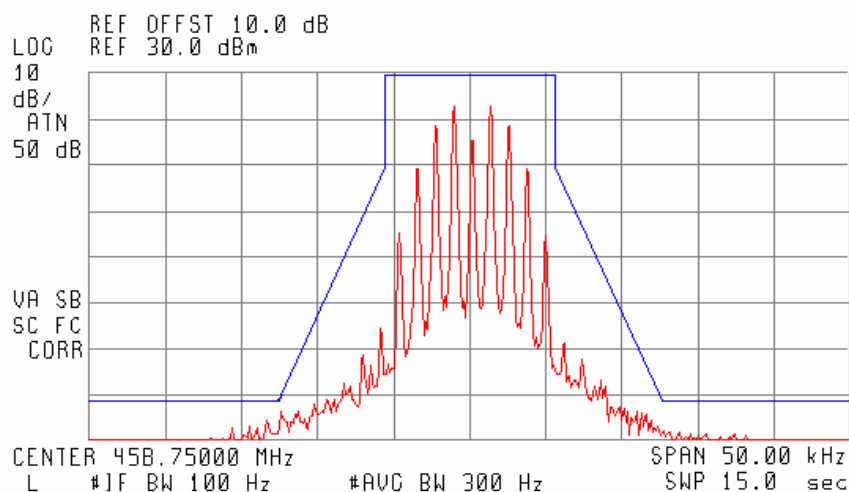
6. Measurement Data (continued)

6.3. Emissions Masks (continued)

6.3.2. Channel 10 - 458.75 MHz

16:51:30 JAN 24, 2008

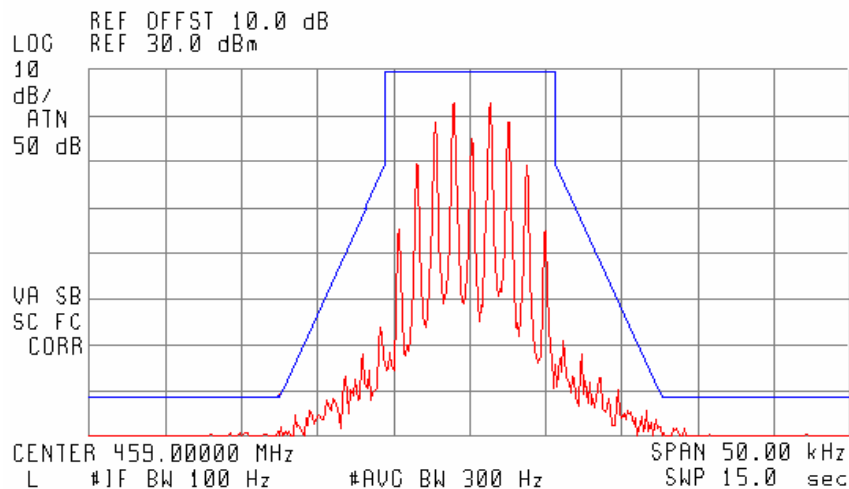
ACTV DET: PEAK
MEAS DET: PEAK QP AVG



6.3.3. Channel 20 - 459.00 MHz

16:59:43 JAN 24, 2008

ACTV DET: PEAK
MEAS DET: PEAK QP AVG



6. Measurement Data (continued)

6.3. Emissions Masks (continued)

6.3.4. Spurious and Harmonic Emissions (FCC Part 2.1053, 90.210)

Note: Refer to section 6.1.1, Peak Transmitter Output Power, for the reference values used in the following table.

| Harmonic | Channel 0: 468.50 MHz | | Channel 10: 468.75 MHz | | Channel 20: 469.00 MHz | |
|----------|-----------------------|-----------------|------------------------|-----------------|------------------------|-----------------|
| | Frequency | Relative Output | Frequency | Relative Output | Frequency | Relative Output |
| | (MHz) | (dBc) | (MHz) | (dBc) | (MHz) | (dBc) |
| 2 | 917.00 | -98.18 | 917.50 | -99.69 | 918.00 | -97.87 |
| 3 | 1375.50 | -102.47 | 1376.25 | -100.86 | 1377.00 | -100.45 |
| 4 | 1834.00 | -116.47 | 1835.00 | -116.38 | 1836.00 | -116.79 |
| 5 | 2292.50 | -116.60 | 2293.75 | -117.25 | 2295.00 | -117.98 |
| 6 | 2751.00 | -113.67 | 2752.50 | -113.09 | 2754.00 | -113.34 |
| 7 | 3209.50 | -113.71 | 3211.25 | -115.00 | 3213.00 | -112.15 |
| 8 | 3668.00 | -115.10 | 3670.00 | -113.91 | 3672.00 | -113.07 |
| 9 | 4126.50 | -114.65 | 4128.75 | -114.23 | 4131.00 | -115.30 |
| 10 | 4585.00 | -114.73 | 4587.50 | -114.01 | 4590.00 | -115.06 |
| 11 | 5043.50 | -116.16 | 5046.25 | -114.15 | 5049.00 | -116.19 |
| 12 | 5502.00 | -114.34 | 5505.00 | -114.01 | 5508.00 | -115.52 |
| 13 | 5960.50 | -115.08 | 5963.75 | -107.96 | 5967.00 | -115.07 |
| 14 | 6419.00 | -116.42 | 6422.50 | -109.79 | 6426.00 | -114.80 |
| 15 | 6877.50 | -108.65 | 6881.25 | -108.49 | 6885.00 | -107.72 |
| 16 | 7336.00 | -107.46 | 7340.00 | -106.89 | 7344.00 | -109.24 |
| 17 | 7794.50 | -108.44 | 7798.75 | -106.42 | 7803.00 | -106.73 |
| 18 | 8253.00 | -105.57 | 8257.50 | -106.08 | 8262.00 | -106.56 |
| 19 | 8711.50 | -107.70 | 8716.25 | -107.07 | 8721.00 | -106.69 |
| 20 | 9170.00 | -107.16 | 9175.00 | -106.29 | 9180.00 | -108.21 |

6. Measurement Data (continued)
6.4. Frequency Stability (FCC Part 2.1055(d)(1), 90.213(a))

Requirement: A transmitter operating in the 421 MHz to 512 MHz frequency range must have a minimum frequency stability of 2.5 ppm at the specified maximum rated output power. This requirement will be verified using the following manufacturer's specifications:

- Operating voltage range : +8 VDC to +30 VDC
- Operating temperature range : -10°C to +50°C.

6.4.1. Frequency Stability with Variation in Supply Voltage

Note: The selected voltages are based on the voltage range detailed in the manufacturer's specifications.

6.4.1.1. Channel 0 - 458.50 MHz

| Supplied Voltage | Measured Frequency | Frequency Error | |
|------------------|--------------------|-----------------|-------|
| (VDC) | (MHz) | (MHz) | (PPM) |
| 8 | 458.499645 | 0.000355 | 0.77 |
| 19 | 458.499707 | 0.000293 | 0.64 |
| 30 | 458.499707 | 0.000293 | 0.64 |

6.4.1.2. Channel 10 - 458.75 MHz

| Supplied Voltage | Measured Frequency | Frequency Error | |
|------------------|--------------------|-----------------|-------|
| (VDC) | (MHz) | (MHz) | (PPM) |
| 8 | 458.749588 | 0.000412 | 0.90 |
| 19 | 458.749588 | 0.000412 | 0.90 |
| 30 | 458.749576 | 0.000424 | 0.92 |

..

6.4.1.3. Channel 20 - 459.00 MHz

| Supplied Voltage | Measured Frequency | Frequency Error | |
|------------------|--------------------|-----------------|-------|
| (VDC) | (MHz) | (MHz) | (PPM) |
| 8 | 458.999563 | 0.000437 | 0.95 |
| 19 | 458.999563 | 0.000437 | 0.95 |
| 30 | 458.999563 | 0.000437 | 0.95 |

6. Measurement Data (continued)

6.4. Frequency Stability (continued)

6.4.2. Frequency Stability with Variation in Temperature

6.4.2.1. Channel 0 - 458.50 MHz

| Temperature | Measured Frequency | Frequency Error | |
|---------------|--------------------|-----------------|-------|
| °C | (MHz) | (MHz) | (PPM) |
| +23 (Ambient) | 458.499650 | 0.000350 | 0.76 |
| -30 | 458.499887 | 0.000113 | 0.25 |
| +50 | 458.499362 | 0.000638 | 1.39 |

6.4.2.2. Channel 10 - 458.75 MHz

| Temperature | Measured Frequency | Frequency Error | |
|-------------|--------------------|-----------------|-------|
| °C | (MHz) | (MHz) | (PPM) |
| +23 | 458.749595 | 0.000405 | 0.88 |
| -30 | 458.749865 | 0.000135 | 0.29 |
| +50 | 458.749345 | 0.000655 | 1.43 |

6.4.2.3. Channel 20 - 459.00 MHz

| Temperature | Measured Frequency | Frequency Error | |
|-------------|--------------------|-----------------|-------|
| °C | (MHz) | (MHz) | (PPM) |
| +23 | 458.999573 | 0.000427 | 0.93 |
| -30 | 458.999872 | 0.000128 | 0.28 |
| +50 | 458.999386 | 0.000614 | 1.34 |

6. Measurement Data (continued)

6.5. Transient Frequency Behavior (FCC Part 90.214)

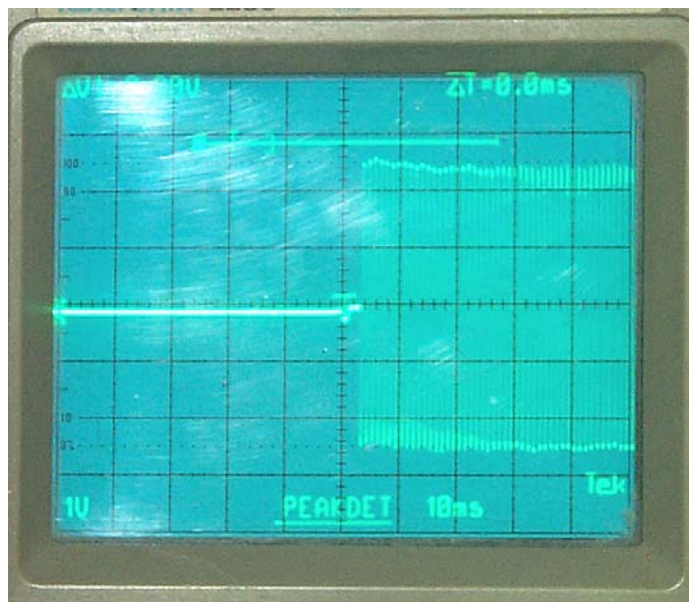
Requirement: Transmitters designed to operate in the 150–174 MHz and 421–512 MHz frequency bands must maintain transient frequencies within the maximum frequency difference limits during the time intervals indicated:

| | | | |
|-------|----------------|-------|----------|
| T_1 | ± 25.0 kHz | 10 ms | See note |
| T_1 | ± 12.5 kHz | 25 ms | |
| T_1 | ± 25.0 kHz | 10 ms | See note |

Note: If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

6.5.1. Transient Frequency Behavior Measurements

6.5.1.1. Channel 0 - 458.50 MHz, Transmitter Off

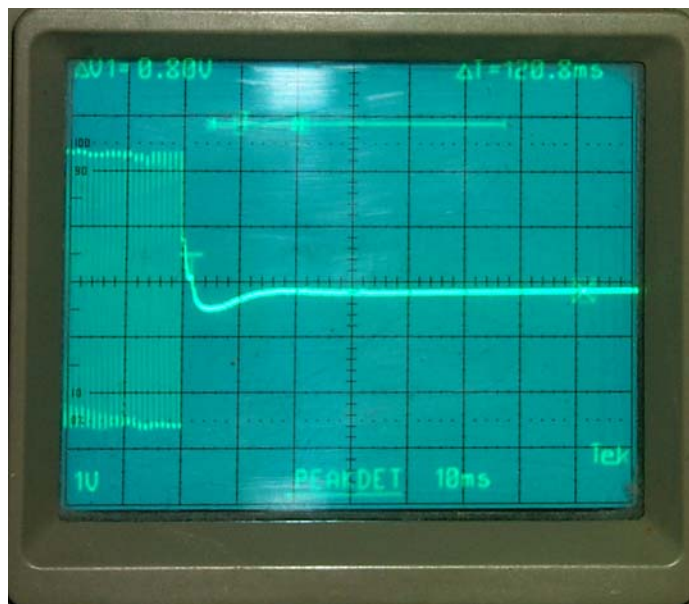


6. Measurement Data (continued)

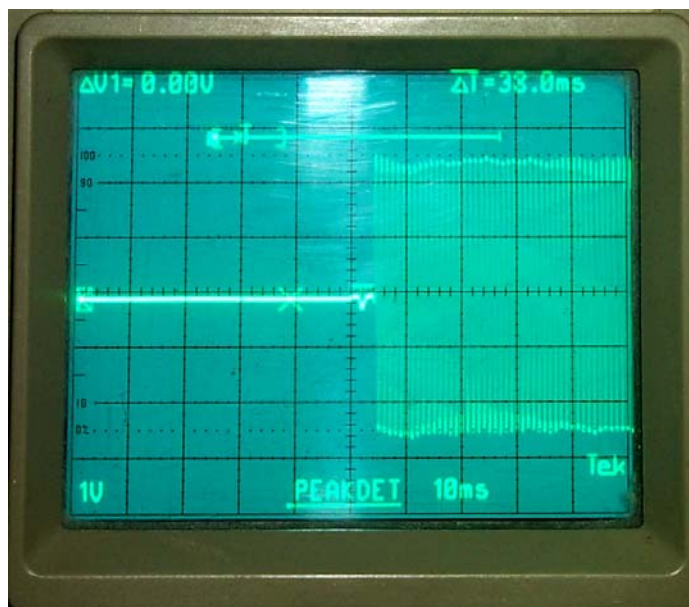
6.5. Transient Frequency Behavior (continued)

6.5.1. Transient Frequency Behavior Measurements

6.5.1.2. Channel 0 - 458.50 MHz, Transmitter On



6.5.1.3. Channel 10 - 458.75 MHz, Transmitter Off

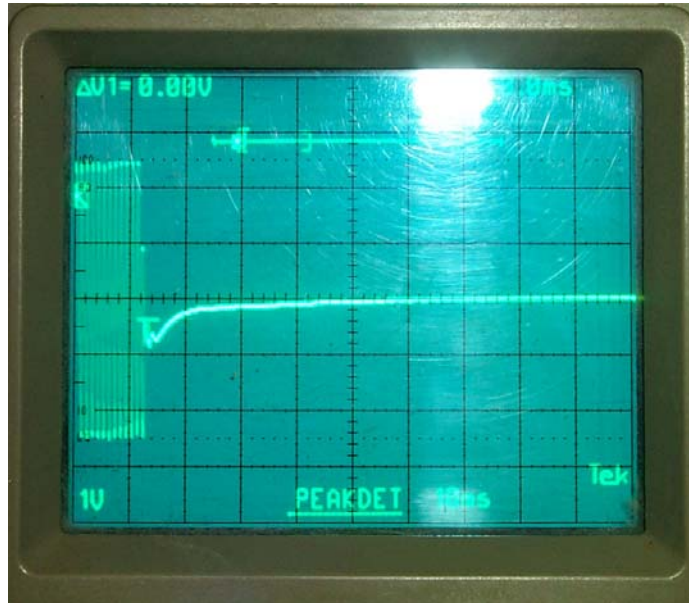


6. Measurement Data (continued)

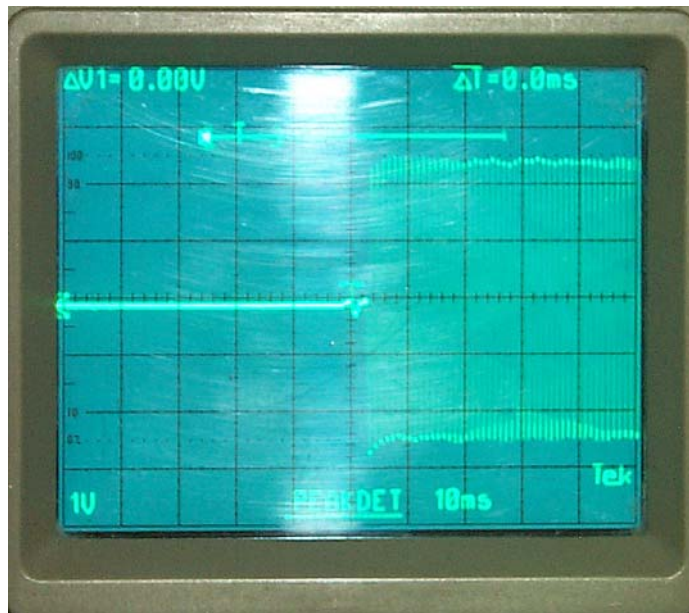
6.5. Transient Frequency Behavior (continued)

6.5.1. Transient Frequency Behavior Measurements

6.5.1.4. Channel 10 - 458.75 MHz, Transmitter On



6.5.1.5. Channel 20 - 459.00 MHz, Transmitter Off

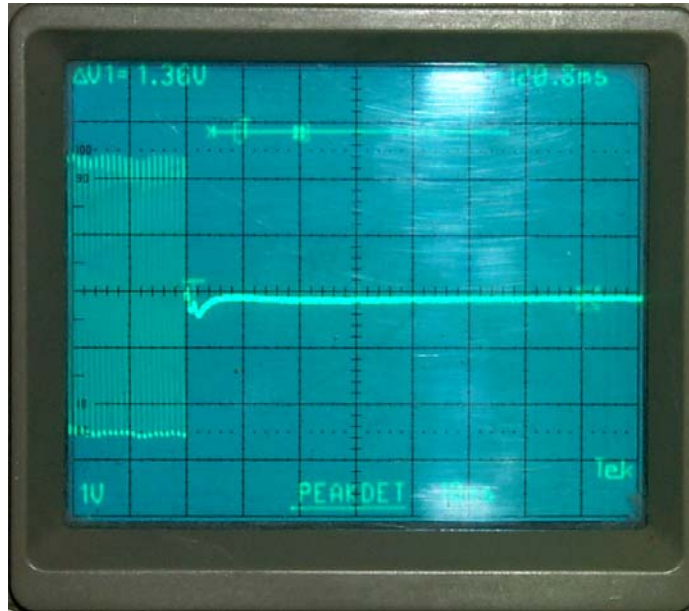


6. Measurement Data (continued)

6.5. Transient Frequency Behavior (continued)

6.5.1. Transient Frequency Behavior Measurements

6.5.1.6. Channel 20 - 450.00 MHz, Transmitter On



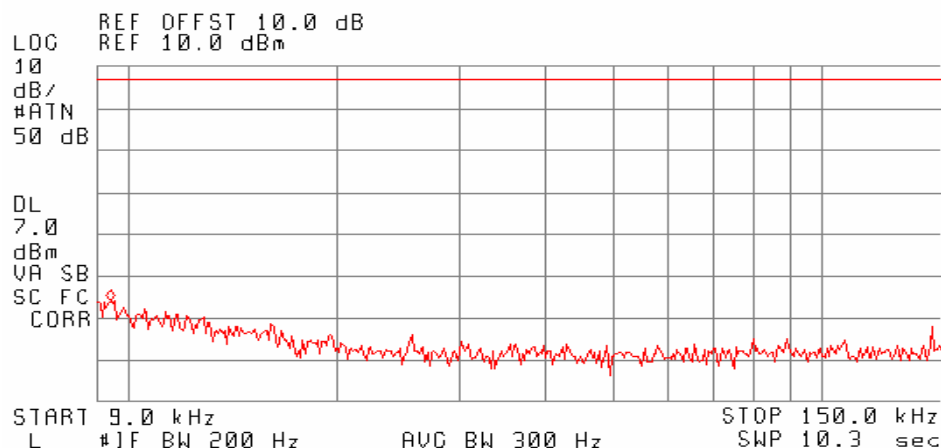
6. Measurement Data (continued)

6.6. Conducted Spurious Emissions

6.6.1. 9 kHz to 150 kHz

17:41:36 FEB 20, 2008
Conducted Spurious Emissions

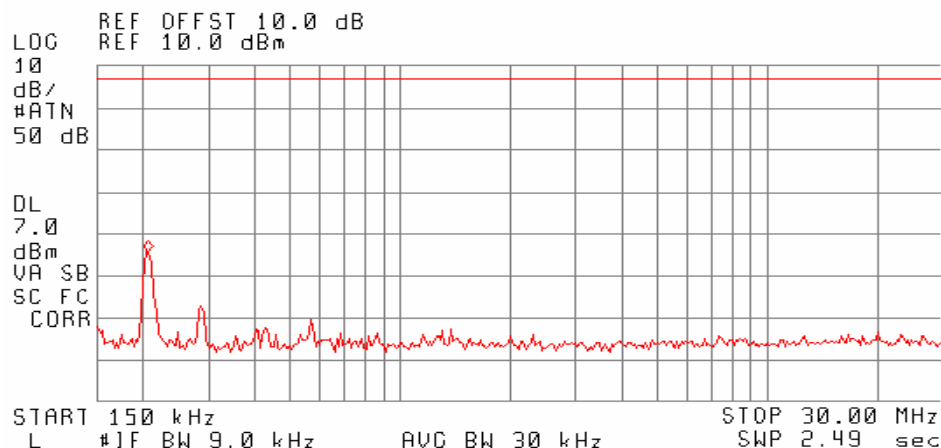
ACTV DET: PEAK
MEAS DET: PEAK QP AVC
MKR 9.5 kHz
-46.07 dBm



6.6.2. 150 kHz to 30 MHz

17:35:36 FEB 20, 2008
Conducted Spurious Emissions

ACTV DET: PEAK
MEAS DET: PEAK QP AVC
MKR 210 kHz
-34.34 dBm



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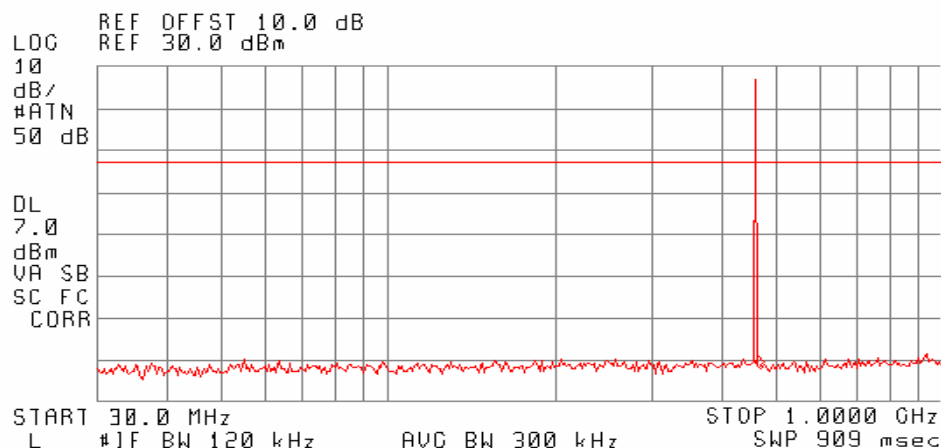
6. Measurement Data (continued)

6.6. Conducted Spurious Emissions (continued)

6.6.3. 30 MHz to 1 GHz

17:21:29 FEB 20, 2008
Conducted Spurious Emissions

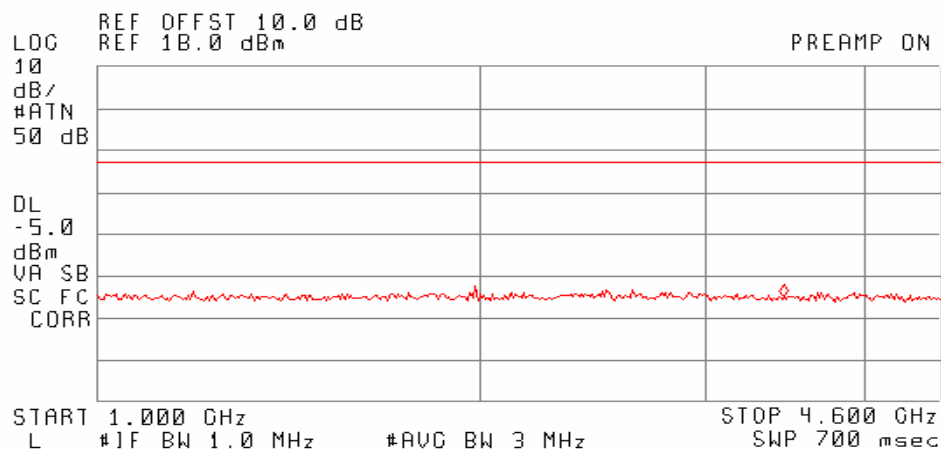
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 465.8 MHz
-41.84 dBm



6.6.4. 1 GHz to 4.6 GHz

17:25:03 FEB 20, 2008
Conducted Spurious Emissions

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 3.450 GHz
-37.07 dBm



6. Measurement Data (continued)

6.7. Radiated Spurious Emissions

There were no measurable emissions other than the harmonic emissions detailed in section 6.3.

7. Test Site Description

Compliance Worldwide is located at 357 Main Street in Sandown, New Hampshire. The test sites at Compliance Worldwide are used for conducted and radiated emissions testing in accordance with Federal Communications Commission (FCC) and Industry Canada standards. A description of the test sites is on file with the FCC (registration number **96392**) and Industry Canada (file number **IC 3023A-1**).

The radiated emissions test site is a 3 and 10 meter enclosed open area test site (OATS). Personnel, support equipment and test equipment are located in the basement beneath the OATS ground plane.

The conducted emissions site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical ground plane required by EN 55022.

Both sites are designed to test products or systems 1.5 meter W x 1.5 meter L x 2.0 meter H, floor standing or table top.

Appendix A
G-Max GAS6146 Transmitter Frequency List

| Channel | Frequency |
|---------|-----------|
| 0 | 458.500 |
| 1 | 458.525 |
| 2 | 458.550 |
| 3 | 458.575 |
| 4 | 458.600 |
| 5 | 458.625 |
| 6 | 458.650 |
| 7 | 458.675 |
| 8 | 458.700 |
| 9 | 458.725 |
| 10 | 458.750 |
| 11 | 458.775 |
| 12 | 458.800 |
| 13 | 458.825 |
| 14 | 458.850 |
| 15 | 458.875 |
| 16 | 458.900 |
| 17 | 458.925 |
| 18 | 458.950 |
| 19 | 458.975 |
| 20 | 459.000 |

The highlighted cells represent the transmitter frequencies used for this evaluation.