

Issued Date: Apr.10,2015

FCC AND IC CERTIFICATION TEST REPORT

FOR

| Applicant | : | Cobra Electronics Corporation | |
|-----------------------------|----|-----------------------------------------------------------------------------------|--|
| Address | : | 6500 West Cortland Street, Chicago IL, 60707, U.S.A. | |
| Equipment under Test | : | Two-way radio | |
| Model No | • | CXT1035R FLT, CXT1035R FLT C+, CXT1035 FLT CAMO, CXT1045R FLT CAMO, CXT1095 FLT | |
| Trade Mark | •• | | |
| FCC ID | •• | BBO21510A | |
| IC | : | 906A-21510A | |
| Manufacturer | : | DONGGUAN WISETRONICS TELECOM EQUIPMENT CO.,LTD. | |
| Address | : | Elite Industrial City, Meilin District, Daling Shan Town, Dongguan Guangdong, PRC | |

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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TEST REPORT DECLARE

Report No: DDT-R15Q0311-1R4

| Applicant | : | Cobra Electronics Corporation | |
|-----------------------------|---|-----------------------------------------------------------------------------------|--|
| Address | : | 6500 West Cortland Street, Chicago IL, 60707, U.S.A. | |
| Equipment under Test | : | Two-way radio | |
| Model No | : | CXT1035R FLT, CXT1035R FLT C+, CXT1035 FLT CAMO, CXT1045R FLT CAMO, CXT1095 FLT | |
| Trade Mark | : | | |
| FCC ID | : | BBO21510A | |
| IC | : | 906A-21510A | |
| Manufacturer | : | DONGGUAN WISETRONICS TELECOM EQUIPMENT CO.,LTD. | |
| Address | : | Elite Industrial City, Meilin District, Daling Shan Town, Dongguan Guangdong, PRC | |

Test Standard Used: FCC Rules and Regulations Part 95; FCC Rules and Regulations Part 2; FCC

Rules and Regulations Part 15B; RSS-210 issue 8:2010

Test procedure used: TIA-603-D:2010; ANSI C63.10:2013

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC and IC standards.

| Report No: | DDT-R15Q0311-1R4 | | |
|---------------|------------------------|-----------------|--------------|
| Date of Test: | Apr.07,2015Apr.10,2015 | Date of Report: | Apr. 10,2015 |

Prepared By:

Leo Liu/RF Engineer

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Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

1. Summary of test results

| Description of Test Item | Standard | Results |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------|
| Maximum Transmitter Power | FCC Part 95.639 RSS-210 A6.1.4 RSS-210 A6.2.4 | PASS |
| Modulation Characteristics | FCC Part 2.1047, FCC Part 95.637 RSS-210 A6.1.2 RSS-210 A6.2.2 | PASS |
| Occupied Bandwidth and Emission Mask | FCC Part 2.1049, FCC Part 95.633, FCC Part 95.635 RSS-210 A6.1.3 RSS-210 A6.2.3 RSS-210 A6.1.5 RSS-210 A6.2.5 | PASS |
| Radiated Spurious Emission | FCC Part 95.635 RSS-210 A6.1.5 RSS-201 A6.2.5 | PASS |
| Frequency Stability | FCC Part 2.1055, FCC Part 95.621 FCC Part 95.626 RSS-210 A6.1.6 RSS-201 A6.2.6 | PASS |

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2. General test information

2.1. Description of EUT

| EUT* Name | : | Two-way radio | | | |
|----------------------------|---|---------------------------------------------------------------------------------|--|--|--|
| Model Number | : | CXT1035R FLT, CXT1035R FLT C+, CXT1035 FLT CAMO, CXT1045R FLT CAMO, CXT1095 FLT | | | |
| Difference of model number | : | ee clause 2.2 | | | |
| Trade Mark | : | / | | | |
| EUT function description | : | Please reference user manual of this device | | | |
| Power supply | : | OC 3.6V from rechargeable battery | | | |
| Operation frequency range | : | 462.55MHz-462.7250MHz / 467.5625MHz-467.7125MHz | | | |
| Modulation type | : | FM | | | |
| Max Tx deviation | : | .5KHz | | | |
| Emission type | : | ⁷ 3E | | | |
| Antenna Type | : | Integral | | | |
| Date of Receipt | : | Apr.07,2015 | | | |
| Sample Type | : | Series production | | | |

Note1: EUT is the ab. of equipment under test.

2.2. Difference of model number and Accessories

This device have 6 models, and the difference of each models are cabinet color, sales country and accessories, all the other characteristic like circuit, PCB layoutare, RF power are exactly same, and CXT1035R FLT was used for test.

| | CATTOSSKTET was used for test. | | | | | | |
|----------------------|--------------------------------|---------|--------|--------------------------|----------------------------------------------------------|--------|--------------|
| Cobra Model | Color | Country | Market | Battery Type & QTY | Adaptor with single Micro USB plug (KEAD-299-A) | Batt. | Charger Base |
| CXT1035R FLT | Black / Orange FP | US | WM | 6xAA-NiM H | Yes | 1000mA | Yes |
| CXT1035R FLT C+ | Black / Orange FP | CA | N/A | 6xAA-NiM H | Yes | 1000mA | Yes |
| CXT1035 FLT CAMO | Black / CAMO FP | US | N/A | 6xAA-NiM H | Yes | 1000mA | Yes |
| CXT1045R FLT CAMO | Black / CAMO FP | US | N/A | 6xAA-NiM H | Yes | 1000mA | Yes |
| CXT1095 FLT | Black / Orange FP | US | WM | 6xAA-NiM H | Yes | 1000mA | Yes |

2.3. Accessories of EUT

| Description of Accessories | Manufacturer | Model number or Type | Other |
|----------------------------|------------------------------------------------------|----------------------|---------|
| Adapter | DEE VAN ENTERPRISE CO., LTD. | DSA-3PFC-05 | FCC VOC |
| Charger Base | Dongguan Wisetronics Telecom Equipment Co., Ltd.) | GA-DPC1 | / |

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| MICRO USB CABLE Y OUTPUT | QI DA | KEOE-OT546 | / |
|----------------------------------|-------|--------------|---|
| MICRO USB CABLE SINGLE OUTPUT | QI DA | KEOE-OT546-A | / |

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2.4. Channel Information

| CH# | FREQ (MHz) | TYPE | CH# | FREQ (MHz) | TYPE |
|-----|------------|------|-----|------------|------|
| 1 | 462.5625 | GMRS | 12 | 467.6625 | FRS |
| 2 | 462.5875 | GMRS | 13 | 467.6875 | FRS |
| 3 | 462.6125 | GMRS | 14 | 467.7125 | FRS |
| 4 | 462.6375 | GMRS | 15 | 462.55 | GMRS |
| 5 | 462.6625 | GMRS | 16 | 462.575 | GMRS |
| 6 | 462.6875 | GMRS | 17 | 462.6 | GMRS |
| 7 | 462.7125 | GMRS | 18 | 462.625 | GMRS |
| 8 | 467.5625 | FRS | 19 | 462.65 | GMRS |
| 9 | 467.5875 | FRS | 20 | 462.675 | GMRS |
| 10 | 467.6125 | FRS | 21 | 462.7 | GMRS |
| 11 | 467.6375 | FRS | 22 | 462.725 | GMRS |

2.5. Block diagram of EUT configuration for test

For Radiated emissions test, the block diagram of EUT configuration as blowe:

EUT

2.6. Test environment conditions

Unless otherwise specified, measurments were performed within below environmental conditions

| Temperature range: | 21-25℃ |
|--------------------|-----------|
| Humidity range: | 40-75% |
| Pressure range: | 86-106kPa |

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong

Province, China, 523808 Tel: +86-0769-22891499 http://www.dgddt.com

FCC Registration Number: 270092 Industry Canada site registration number: 10288A

2.8. Measurement uncertainty

| Test Item | Uncertainty |
|--------------------------------------------------------|-----------------------|
| Maximum RF output power (Radiated) | ±1.5dB |
| Frequency Deviation | ±0.05KHz |
| Uncertainty for radio frequency | 1×10 ⁻⁹ |
| Frequency stability | 140Hz |
| Temperature | ±0.2℃ |
| Humidity | ±1% |
| DC and Low frequency voltage | ±0.5% |
| Uncertainty for radiation emission test | 3.14 dB (Polarize: V) |
| (30MHz-1GHz) | 3.16 dB (Polarize: H) |
| Uncertainty for radiation emission test | 2.08dB(Polarize: V) |
| (1GHz to 25GHz) | 2.56dB (Polarize: H) |
| Uncertainty for radiation emission test (150KHz-30MHz) | 3.21dB |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

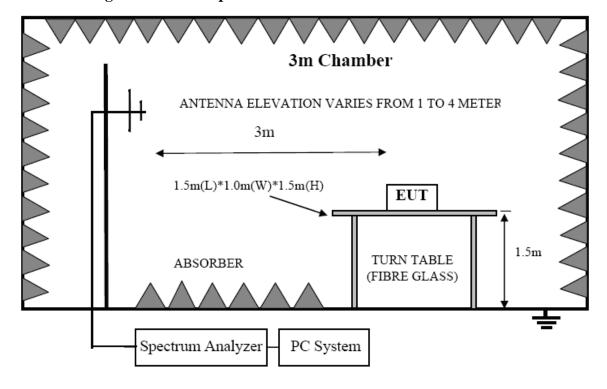
Report No: DDT-R15Q0311-1R4

3. Maximum Transmitter Power

3.1. Test equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-----------------------------|--------------|-----------|--------------|------------|---------------|
| 1 | Spectrum analyzer | R&S | FSU26 | 1166.1660.26 | 2014/10/25 | 1Y |
| 2 | Trilog Broadband Antenna | Schwarzbeck | VULB9163 | 9163-462 | 2014/04/12 | 1Y |
| 3 | Dipole antenna | Schwarzbeck | UHAP | 1101 | 2014/10/25 | 1Y |
| 4 | Dipole antenna | Schwarzbeck | VHAP | 1118 | 2014/10/25 | 1Y |
| 5 | RF Cable | R&S | R01 | 10403 | 2014/10/25 | 1Y |
| 6 | RF Cable | R&S | R02 | 10512 | 2014/10/25 | 1Y |
| 7 | RF Cable | R&S | R01 | 10454 | 2014/10/25 | 1Y |
| 8 | RF Cable | R&S | R02 | 10343 | 2014/10/25 | 1Y |
| 9 | Signal Generator | R&S | SMBV100A | 1407.6004K02 | 2014/10/25 | 1Y |
| 10 | EMC Test software | Audxi | E3 | N/A | N/A | N/A |

3.2. Block diagram of test setup



3.3. Limits

According to FCC Part 95.639:.

No FRS unit, under any condition of modulation, shall exceed 0.500 W effective radiated power (ERP)

No GMRS channel, under any condition of modulation, shall exceed:

(1) 50W Carrier power (average TP during one modulated RF cycle) when transmitting emissions type A1D, F1D, G1D, A3E, F3E, or G3E.

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(2) 50W peak envelope TP when transmitting emission type H1D, J1D, R1D, H3E, J3E or R3E.

According to RSS-210 A6.1.4:

For FRS transmitter the maximum permissible transmitter output power under any operating conditions is 0.5 W effective radiated power (e.r.p.). The radio shall be equipped with an integral antenna.

According to RSS-210 A6.2.4:

A GMRS transmitter may transmit with a maximum power of 2 W e.r.p.

3.4. Test Procedure

- (1) On a test site, the EUT shall be placed at 1.5m height on a wooden turntable, and in the position closest to normal use as declared by the applicant.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from EUT to correspond to the frequency of the transmitter.
- (3) The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
- (4) The transmitter shall be switched on , if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- (6) The transmitter shall then the rotated through 360° in the horizontal plane, until a maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The transmitter shall be replaced by a tuned dipole (substitution antenna).
- (10) The substitution antenna shall be oriented for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- (11) The substitution antenna shall be connected to a calibrated signal generator.
- (12) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (13) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver
- (14) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring received, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- (15) The input signal to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.

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- (16) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- (17) The measure of the ERP is the larger of the two levels recorded, at the input to the substitution antenna, corrected the gain of the substitution antenna if necessary.

3.5. Test Result

| CH# | Frequency | Туре | Result | (ERP) | FCC Limit | FCC Margin | RSS-210 Limit | RSS-210 Margin |
|-----------------|-------------------------------------------------|------|--------|-------|--------------|---------------|------------------|-------------------|
| | (MHz) | 71 | dBm | (W) | (W) | (W) | (W) | (W) |
| 1 | 462.5625 | GMRS | 31.82 | 1.521 | 50 | 48.479 | 2 | 0.479 |
| 2 | 462.5875 | GMRS | 31.71 | 1.483 | 50 | 48.517 | 2 | 0.517 |
| 3 | 462.6125 | GMRS | 31.64 | 1.459 | 50 | 48.541 | 2 | 0.541 |
| 4 | 462.6375 | GMRS | 31.45 | 1.396 | 50 | 48.604 | 2 | 0.604 |
| 5 | 462.6625 | GMRS | 31.61 | 1.449 | 50 | 48.551 | 2 | 0.551 |
| 6 | 462.6875 | GMRS | 31.66 | 1.466 | 50 | 48.534 | 2 | 0.534 |
| 7 | 462.7125 | GMRS | 31.63 | 1.455 | 50 | 48.545 | 2 | 0.545 |
| 8 | 467.5625 | FRS | 24.20 | 0.263 | 0.5 | 0.237 | 0.5 | 0.237 |
| 9 | 467.5875 | FRS | 24.13 | 0.259 | 0.5 | 0.241 | 0.5 | 0.241 |
| 10 | 467.6125 | FRS | 24.09 | 0.256 | 0.5 | 0.244 | 0.5 | 0.244 |
| 11 | 467.6375 | FRS | 24.12 | 0.258 | 0.5 | 0.242 | 0.5 | 0.242 |
| 12 | 467.6625 | FRS | 24.01 | 0.252 | 0.5 | 0.248 | 0.5 | 0.248 |
| 13 | 467.6875 | FRS | 23.95 | 0.248 | 0.5 | 0.252 | 0.5 | 0.252 |
| 14 | 467.7125 | FRS | 23.83 | 0.242 | 0.5 | 0.258 | 0.5 | 0.258 |
| 15 | 462.55 | GMRS | 31.68 | 1.472 | 50 | 48.528 | 2 | 0.528 |
| 16 | 462.575 | GMRS | 31.62 | 1.452 | 50 | 48.548 | 2 | 0.548 |
| 17 | 462.6 | GMRS | 31.59 | 1.442 | 50 | 48.558 | 2 | 0.558 |
| 18 | 462.625 | GMRS | 31.71 | 1.483 | 50 | 48.517 | 2 | 0.517 |
| 19 | 462.65 | GMRS | 31.54 | 1.426 | 50 | 48.574 | 2 | 0.574 |
| 20 | 462.675 | GMRS | 31.52 | 1.419 | 50 | 48.581 | 2 | 0.581 |
| 21 | 462.7 | GMRS | 31.65 | 1.462 | 50 | 48.538 | 2 | 0.538 |
| 22 | 462.725 | GMRS | 31.63 | 1.455 | 50 | 48.545 | 2 | 0.545 |
| Conclusion:PASS | | | | | | | | |
| Test Dat | Test Date : Apr.08,2015 Test Engineer : Leo Liu | | | | | | | |

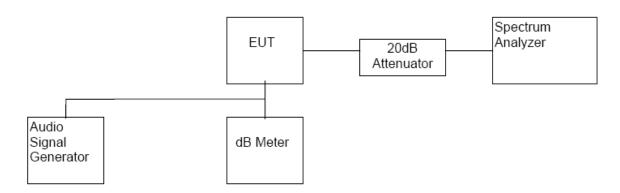
4. Occupied bandwidth and emission mask

4.1. Test equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------------|-------------------------|-------------|--------------|------------|---------------|
| 1 | Spectrum analyzer | R&S | FSU | 1166.1660.26 | 2014/10/25 | 1 Year |
| 2 | Attenuator | Mini-Circuits | BW-S20W2 | 101109 | 2014/10/25 | 1 Year |
| 3 | RF Cable | Micable | C10-01-01-1 | 100309 | 2014/10/25 | 1 Year |
| 4 | Audio Generator | Good Will Instrument | GAG-810 | EM862120 | 2014/10/25 | 1 Year |
| 5 | Digit Multimeter | Agilent | 34401A | MY47053313 | 2014/10/25 | 1 Year |

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4.2. Block diagram of test setup



4.3. Limits

According to FCC 95.633 & RSS-210 A6.1.3, A6.2.3:

For GMRS: the authorized bandwidth for emission type A1D or A3E is 8 KHz ,The authorized bandwidth for emission type F1D, G1D, F3E or G3E is 20 KHz.

For FRS: the authorized bandwidth for emission type F3E or F2D is 12.5 KHz

According to FCC 95.635 & RSS-210 A6.1.5, A6.2.5:

At least 25dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50 % up to and including 100 % of the authorized bandwidth.

At least 35 dB on any frequency removed from the center of the authorized bandwidth by more than 100 % up to and including 250 % of the authorized bandwidth.

At least $43 + 10 \log 10(T)$ dB on any frequency removed from the center of the authorized bandwidth by more than 250 %.

4.4. Test Procedure

(1). Configure EUT and assistant system according clause 4.2

(2). The EUT was modulated by 2.5 KHz Sine wave audio signal, The level of the audio signal employed is 16 dB greater than that necessary to produce 50% of rated system deviation. Rated system deviation is 2.5 kHz (12.5 kHz channel spacing).

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- (3). Set SPA Center Frequency = fundamental frequency, RBW=VBW= 300 Hz, Span = 20 KHz.
- (4). Measure the -20 dB bandwidth of modulated signal.

4.5. Test Result

Occupied Bandwidth:

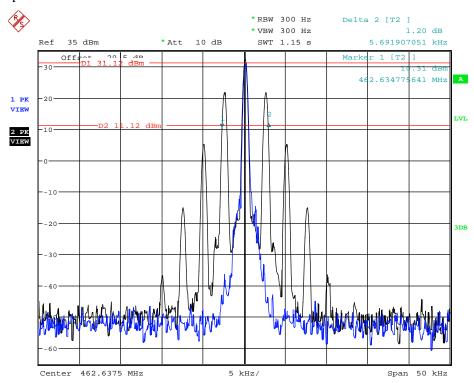
| СН | Freq (MHz) | Туре | Occupied Bandwidth | Limit | | | | |
|-------------------------------------------------|---------------|--------------|-----------------------|---------|--|--|--|--|
| CH4 | 462.6375 | GMRS | 5.69KHz | 20KHz | | | | |
| CH11 | 467.6375 | 467.6375 FRS | | 12.5KHz | | | | |
| Conclusion:PASS | | | | | | | | |
| Test Date : Apr.08,2015 Test Engineer : Leo Liu | | | | | | | | |

Emission mask:

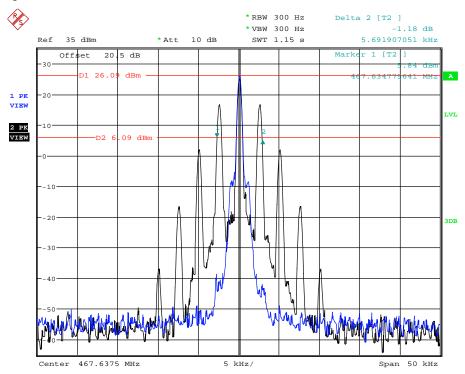
| СН | Freq (MHz) | Туре | Emission mask result |
|----------------------|---------------|---------|----------------------|
| CH4 | 462.6375 | GMRS | PASS |
| CH11 | 467.6375 | FRS | PASS |
| Test Date : Apr.08,2 | 015 | Test En | gineer : Leo Liu |

4.6. Original test data

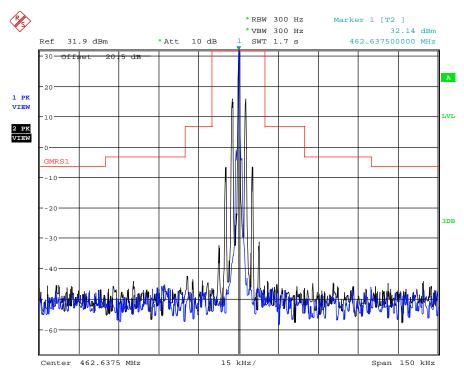
Occupied Bandwidth CH4:



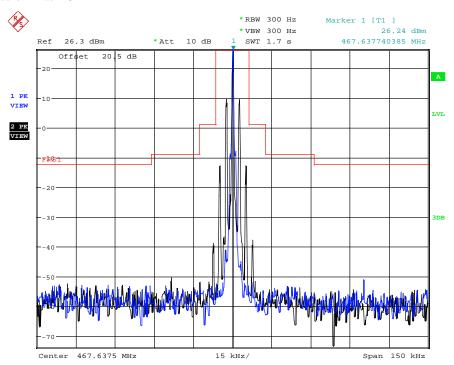
Occupied Bandwidth CH11:



Emission mask CH 4



Emission mask CH11



5. Modulation Characteristics

5.1. Test equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------------------------|-------------------------|-------------|--------------|------------|---------------|
| 1 | Spectrum analyzer | R&S | FSU | 1166.1660.26 | 2014/10/25 | 1 Year |
| 2 | Attenuator | Mini-Circuits | BW-S20W2 | 101109 | 2014/10/25 | 1 Year |
| 3 | RF Cable | Micable | C10-01-01-1 | 100309 | 2014/10/25 | 1 Year |
| 4 | Audio Generator | Good Will Instrument | GAG-810 | EM862120 | 2014/10/25 | 1 Year |
| 5 | Digit Multimeter | Agilent | 34401A | MY47053313 | 2014/10/25 | 1 Year |
| 6 | RF COMMUNICATI ON TEST SET | НР | 8920A | 3813A1016 | 2014/10/25 | 1 Year |

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5.2. Block diagram of test setup

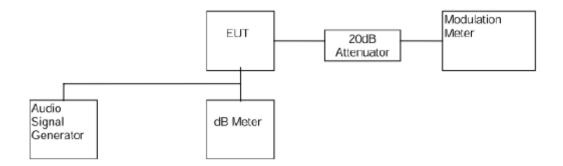


Figure 1

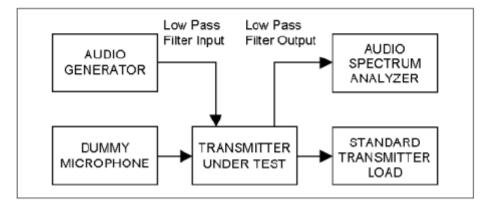


Figure 2

5.3. Limits

According to FCC 95.637:

(a) A GMRS transmitter that transmits emission types F1D, G1D, or G3E must not exceed a peak frequency deviation of plus or minus 5 kHz. A GMRS transmitter that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 5 kHz. A FRS unit that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 2.5 kHz, and the audio frequency response must not exceed 3.125 kHz.

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(b) Each GMRS transmitter, except a mobile station transmitter with a power output of 2.5 W or less, must automatically prevent a greater than normal audio level from causing overmodulation. The transmitter also must include audio frequency low pass filtering, unless it complies with the applicable paragraphs of \$95.631 (without filtering.) The filter must be between the modulation limiter and the modulated stage of the transmitter. At any frequency (f in kHz) between 3 and 20 kHz, the filter must have an attenuation of at least 60 log10 (f/3) dB greater than the attenuation at 1 kHz. Above 20 kHz, it must have an attenuation of at least 50 dB greater than the attenuation at 1 kHz.

According to FCC 2.1047:

- (a) Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter, or of all circuitry installed between the modulation limiter and the modulated stage shall be submitted.
- (b) Equipment which employs modulation limiting. A curve or family of curves showing the percentage of modulation versus the modulation input voltage shall be supplied. The information submitted shall be sufficient to show modulation limiting capability throughout the range of modulating frequencies and input modulating signal levels employed.

5.4. Test Procedure

Frequency deviation:

- (1). Configure the EUT as shown in figure 1, adjust the audio input for 60% of rated system deviation at 1 KHz using this level as a reference (0dB) and vary the input level from -20 to +20dB. Record the frequency deviation obtained as a function of the input level.
- (2). Repeat step (1) with input frequency changing to 300Hz,500Hz,1Kz, 1.5KHz, 2KHz and 3KHz in sequence.

Audio Frequency Response:

- (1). Configure the EUT as shown in figure 1.
- (2). Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.
- (3). Vary the Audio frequency from 100 Hz to 5 KHz and record the frequency deviation.
- (4). The peak frequency deviation must not exceed ± 2.5 KHz.

Audio Low Pass Filter Response:

- (1) Connect the equipment in figure 2.
- (2) Connect the audio frequency generator as close as possible the input of the post limiter low pass filter within the transmitter under test.

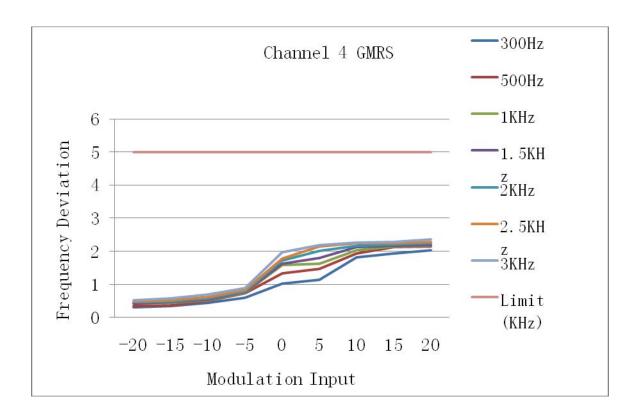
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- (3) Connect the audio spectrum analyzer to the output of the post limiter low pass filter within the transmitter under test.
- (4) Apply a 1000 Hz tone from the audio frequency generator and adjust the level per manufacturer's specifications.
- (5) Record the dB level of the 1000 Hz spectral line on the audio spectrum analyzer as LEV1.
- (6) Set the audio frequency generator to the desired test frequency between 3000 Hz and the upper low pass filter limit.
- (7) Record audio spectrum analyzer levels, at the test frequency in step (6).
- (8) Record the dB level on the audio spectrum analyzer as LEV2 . Method of Measurement for Transmitters .

5.5. Test Result

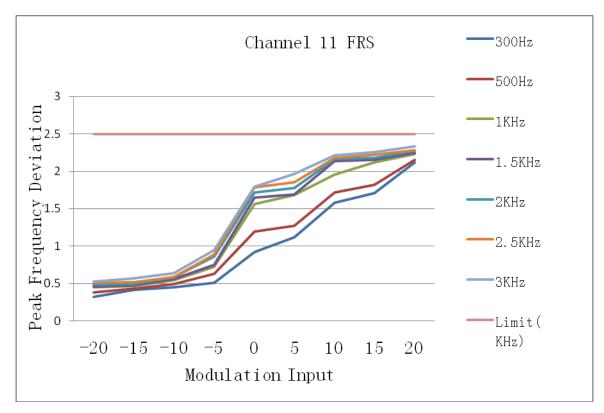
Frequency deviation:

| Channel 4: 462.6375MHz, GMRS | | | | | | | | | |
|-------------------------------------------------|-------|-------|-------------|-------------|-----------|--------|------|-------|--|
| Modulation | | | Peak Freque | ency Deviat | ion (KHz) | | | Limit | |
| Input(dB) | 300Hz | 500Hz | 1KHz | 1.5KHz | 2KHz | 2.5KHz | 3KHz | (KHz) | |
| -20.0 | 0.31 | 0.34 | 0.42 | 0.43 | 0.47 | 0.49 | 0.52 | 5 | |
| -15.0 | 0.34 | 0.36 | 0.44 | 0.46 | 0.48 | 0.52 | 0.57 | 5 | |
| -10.0 | 0.44 | 0.49 | 0.52 | 0.55 | 0.58 | 0.62 | 0.69 | 5 | |
| -5.0 | 0.60 | 0.72 | 0.75 | 0.77 | 0.79 | 0.83 | 0.89 | 5 | |
| 0.0 | 1.03 | 1.33 | 1.58 | 1.63 | 1.73 | 1.79 | 1.97 | 5 | |
| 5.0 | 1.14 | 1.47 | 1.62 | 1.81 | 2.01 | 2.15 | 2.18 | 5 | |
| 10.0 | 1.81 | 1.94 | 2.02 | 2.13 | 2.16 | 2.25 | 2.27 | 5 | |
| 15.0 | 1.93 | 2.14 | 2.15 | 2.17 | 2.21 | 2.26 | 2.28 | 5 | |
| 20.0 | 2.03 | 2.15 | 2.16 | 2.19 | 2.24 | 2.29 | 2.36 | 5 | |
| Conclusion: PASS | | | | | | | | | |
| Test Date : Apr.08,2015 Test Engineer : Leo Liu | | | | | | | | | |



| | Channel 11: 467.6375MHz, FRS | | | | | | | | | |
|----------------|------------------------------|-------|------------|-------------|-----------|--------|------|-------|--|--|
| Modulation | | | Peak Frequ | ency Deviat | ion (KHz) | | | Limit | | |
| Input(dB) | 300Hz | 500Hz | 1KHz | 1.5KHz | 2KHz | 2.5KHz | 3KHz | (KHz) | | |
| -20.0 | 0.32 | 0.38 | 0.45 | 0.46 | 0.48 | 0.51 | 0.53 | 2.5 | | |
| -15.0 | 0.41 | 0.43 | 0.47 | 0.48 | 0.49 | 0.52 | 0.57 | 2.5 | | |
| -10.0 | 0.45 | 0.49 | 0.54 | 0.56 | 0.58 | 0.59 | 0.64 | 2.5 | | |
| -5.0 | 0.51 | 0.63 | 0.72 | 0.75 | 0.86 | 0.89 | 0.95 | 2.5 | | |
| 0.0 | 0.92 | 1.19 | 1.56 | 1.65 | 1.71 | 1.78 | 1.79 | 2.5 | | |
| 5.0 | 1.12 | 1.27 | 1.68 | 1.69 | 1.77 | 1.85 | 1.96 | 2.5 | | |
| 10.0 | 1.58 | 1.71 | 1.96 | 2.14 | 2.16 | 2.18 | 2.21 | 2.5 | | |
| 15.0 | 1.71 | 1.82 | 2.12 | 2.16 | 2.18 | 2.22 | 2.25 | 2.5 | | |
| 20.0 | 2.12 | 2.15 | 2.23 | 2.25 | 2.27 | 2.28 | 2.33 | 2.5 | | |
| Conclusion: PA | Conclusion: PASS | | | | | | | | | |

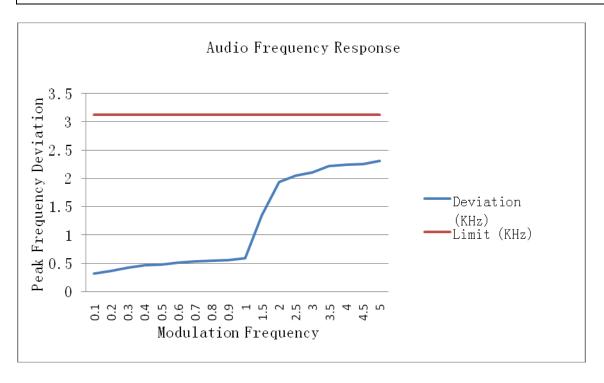
Test Date : Apr.08,2015 Test Engineer : Leo Liu



Audio Frequency Response

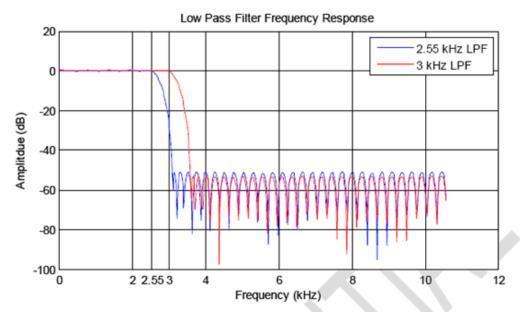
| Channel 11: 467.6375MHz, FRS | | | | | |
|------------------------------|-----------------|-------------|--|--|--|
| Modulation Frequency(Hz) | Deviation (KHz) | Limit (KHz) | | | |
| 100 | 0.32 | 3.125 | | | |
| 200 | 0.37 | 3.125 | | | |
| 300 | 0.42 | 3.125 | | | |
| 400 | 0.47 | 3.125 | | | |
| 500 | 0.48 | 3.125 | | | |
| 600 | 0.51 | 3.125 | | | |
| 700 | 0.53 | 3.125 | | | |
| 800 | 0.55 | 3.125 | | | |
| 900 | 0.56 | 3.125 | | | |
| 1000 | 0.59 | 3.125 | | | |
| 1500 | 1.35 | 3.125 | | | |
| 2000 | 1.94 | 3.125 | | | |
| 2500 | 2.05 | 3.125 | | | |
| 3000 | 2.11 | 3.125 | | | |
| 3500 | 2.22 | 3.125 | | | |
| 4000 | 2.24 | 3.125 | | | |
| 4500 | 2.25 | 3.125 | | | |
| 5000 | 2.33 | 3.125 | | | |

| Conclusion:PASS | |
|-------------------------|------------------------|
| Test Date : Apr.08,2015 | Test Engineer: Leo Liu |



Audio Low Pass Filter Response

For this device the Audio Low Pass Filter was integrated in chip U301(EL3280), and it's impossible to measure the response of Audio Low Pass Filter. According technical spec of U301, the Audio Low Pass Filter Response curve as below, and comply this FCC and IC requirements.



Frequency Response of Low Pass Filter

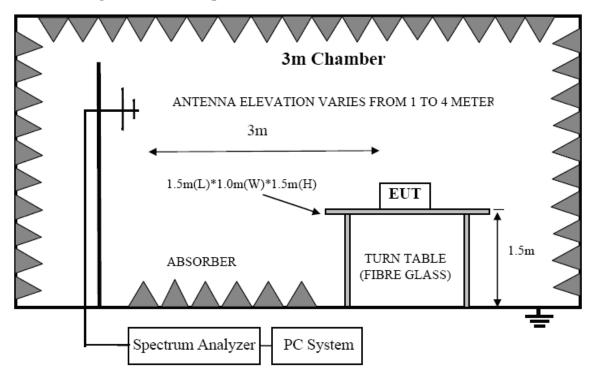
6. Radiated Spurious Emission

6.1. Test equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------------------|--------------|-----------|--------------|------------|---------------|
| 1 | Spectrum analyzer | R&S | FSU26 | 1166.1660.26 | 2014/10/25 | 1Y |
| 2 | EMI Test Receiver | R&S | ESU8 | 100316 | 2014/10/25 | 1 Y |
| 3 | Loop antenna | TESEQ | HLA6120 | 20129 | 2014/04/12 | 1 Y |
| 4 | Trilog Broadband Antenna | Schwarzbeck | VULB9163 | 9163-462 | 2014/04/12 | 1Y |
| 5 | Double Ridged Horn Antenna | R&S | HF907 | 100276 | 2014/04/12 | 1Y |
| 6 | Double Ridged Horn Antenna | R&S | HF907 | 100265 | 2014/04/12 | 1Y |
| 7 | Dipole antenna | Schwarzbeck | UHAP | 1101 | 2014/10/25 | 1Y |
| 8 | Dipole antenna | Schwarzbeck | VHAP | 1118 | 2014/10/25 | 1Y |
| 9 | RF Cable | R&S | R01 | 10403 | 2014/10/25 | 1Y |
| 10 | RF Cable | R&S | R02 | 10512 | 2014/10/25 | 1Y |
| 11 | RF Cable | R&S | R01 | 10454 | 2014/10/25 | 1Y |
| 12 | RF Cable | R&S | R02 | 10343 | 2014/10/25 | 1Y |
| 13 | Signal Generator | R&S | SMBV100A | 1407.6004K02 | 2014/10/25 | 1Y |
| 14 | EMC Test software | Audix | E3 | N/A | N/A | N/A |

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6.2. Block diagram of test setup



6.3. Limit

The unwanted emission should be attenuated below TP by at least 43+10log(Transmit Power) dB and unwanted emissions falling within the restricted bands of RSS-Gen shall be attenuated to the limits provided in this section or to the general field strength limits shown in RSS-Gen, whichever are less stringent.

Report No: DDT-R15Q0311-1R4

6.4. Test Procedure

- (1) On a test site, the EUT shall be placed on a 1.5m turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3)The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4)The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6)The transmitter shall than be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any

change of input attenuator setting of the measuring receiver.

(17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

Report No: DDT-R15Q0311-1R4

6.5. Test result

Test Mode: GMRS mode continue transmitting Channel 4, Frequency= 462.6375MHz, with earphone and power adapter 2.(Note 1)

Channle Maximum Power:31.45dBm (1.396W)

| | 1 | | | 1 | , |
|-----------|--------------|--------|---------------|--------|------------|
| Frequency | Antenna | Result | Limit(Note 2) | Margin | Conclusion |
| (MHz) | polarization | (dBm) | (dBm) | (dB) | Conclusion |
| 925.27 | Н | -28.58 | -13 | 15.58 | PASS |
| 1388 | Н | -21.58 | -13 | 8.58 | PASS |
| 1852 | Н | -22.75 | -13 | 9.75 | PASS |
| 925.27 | V | -29.06 | -13 | 16.06 | PASS |
| 1388 | V | -22.05 | -13 | 9.05 | PASS |
| 1852 | V | -23.12 | -13 | 10.12 | PASS |

Note 1: According explorer test, this configuration have worst emission.

Note 2:Limit= 25.96dBm- (43+10log(Transmit Power)) = -13dBm

Test Date : Apr,09,2015 Test Engineer : Leo Liu

Test Mode: FRS mode continue transmitting Channel 11, Frequency= 467.6375MHz, with earphone and power adapter 2.(Note 1)

Channle Maximum Power:24.12dBm (0.258W)

| Frequency | Antenna | Result | Limit(Note 2) | Margin | Conclusion |
|-----------|--------------|--------|---------------|--------|------------|
| (MHz) | polarization | (dBm) | (dBm) | (dB) | Conclusion |
| 935.27 | Н | -30.09 | -13 | 17.09 | PASS |
| 1400 | Н | -22.78 | -13 | 9.78 | PASS |
| 2336 | Н | -21.26 | -13 | 8.26 | PASS |
| 935.27 | V | -29.58 | -13 | 16.58 | PASS |
| 1400 | V | -23.08 | -13 | 10.08 | PASS |
| 2336 | V | -25.14 | -13 | 12.14 | PASS |

Note 1: According explorer test, this configuration have worst emission.

Note 2:Limit= 25.18dBm- (43+10log(Transmit Power)) = -13dBm

Test Date: Apr.09,2015 Test Engineer: Leo Liu

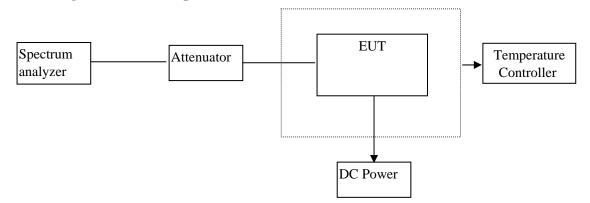
7. Frequency Stability

7.1. Test equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|------------------------|---------------|-------------|--------------|------------|---------------|
| . 1 | Spectrum analyzer | R&S | FSU | 1166.1660.26 | 2014/10/25 | 1 Y |
| . 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | 2014/10/25 | 1 Y |
| . 3 | RF Cable | Micable | C10-01-01-1 | 100309 | 2014/10/25 | 1 Y |
| 4 | Temperature controller | Dongguan Bell | BE-TH-150M3 | 201208153364 | 2014/10/25 | 1 Y |
| 5 | DC Power Source | ALLPower | ADC50-20 | 990406 | 2014/10/25 | 1 Y |

Report No: DDT-R15Q0311-1R4

7.2. Block diagram of test setup



7.3. Limits

According to FCC 95.621

(b) Each GMRS transmitter for mobile station, small base station and control station operation must be maintained within a frequency tolerance of 0.0005%. Each GMRS transmitter for base station (except small base), mobile relay station or fixed station operation must be maintained within a frequency tolerance of 0.00025%.

According to FCC 95.627

(b) Each FRS unit must be maintained within a frequency tolerance of 0.000 25%.

According to RSS-210 A6.1.6

FRS Devices: Carrier frequency tolerance shall be better that ± 5 ppm

According to RSS-210 A6.2.6

GMRS Devices: Carrier frequency tolerance shall be better that ± 5 ppm

7.4. Test Procedure

Frequency stability versus environmental temperature:

(1). Setup the configuration per figure 1 for frequencies measurement inside an environment chamber,

Install new battery in the EUT.

(2). Turn on EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1KHz and Video Resolution Bandwidth to 1KHz and Frequency Span to 50KHz.Record this frequency as reference frequency.

Report No: DDT-R15Q0311-1R4

- (3). Set the temperature of chamber to 50°C. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
- (4). Repeat step 2 with a 10 °C decreased per stage until the lowest temperature -30 °C is measured, record all measured frequencies on each temperature step.

Frequency stability versus input voltage:

- (1). Setup the configuration per figure 1 for frequencies measured at temperature if it is within 15° C to 25° C. Otherwise, an environment chamber set for a temperature of 20° C shall be used. The EUT shall be powered by DC 4.5 V
- (2). Set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1 KHz and Video Resolution Bandwidth to 1KHz. Record this frequency as reference frequency.
- (3). Supply the EUT primary voltage at the operating end point which is specified by manufacturer and record the frequency.

7.5. Test result

| | | | Frequency | y Tolerance | | | |
|------|-----------|---------|----------------|---------------|-----------------|------------------|-----|
| CH # | Frequency | TEXADE. | | Result | FCC limit | RSS-210 limit | |
| CH# | (MHz) | TYPE | Measured (MHz) | Tolerance (%) | Tolerance (ppm) | % | ppm |
| 1 | 462.5625 | GMRS | 462.5625 | 0 | 0 | 0.0005% | ±5 |
| 2 | 462.5875 | GMRS | 462.5873 | -0.000043 | -0.43 | 0.0005% | ±5 |
| 3 | 462.6125 | GMRS | 462.6130 | 0.000108 | 1.08 | 0.0005% | ±5 |
| 4 | 462.6375 | GMRS | 462.6370 | -0.000110 | -1.10 | 0.0005% | ±5 |
| 5 | 462.6625 | GMRS | 462.6627 | 0.000043 | 0.43 | 0.0005% | ±5 |
| 6 | 462.6875 | GMRS | 462.6867 | -0.000170 | -1.70 | 0.0005% | ±5 |
| 7 | 462.7125 | GMRS | 462.7124 | -0.000022 | -0.22 | 0.0005% | ±5 |
| 8 | 467.5625 | FRS | 467.5625 | 0 | 0 | 0.00025% | ±5 |
| 9 | 467.5875 | FRS | 467.5873 | -0.000043 | -0.43 | 0.00025% | ±5 |
| 10 | 467.6125 | FRS | 467.6130 | 0.000107 | 1.07 | 0.00025% | ±5 |
| 11 | 467.6375 | FRS | 467.6370 | -0.000110 | -1.10 | 0.00025% | ±5 |
| 12 | 467.6625 | FRS | 467.6619 | -0.000130 | -1.30 | 0.00025% | ±5 |
| 13 | 467.6875 | FRS | 467.6875 | 0 | 0 | 0.00025% | ±5 |
| 14 | 467.7125 | FRS | 467.7131 | 0.000128 | 1.28 | 0.00025% | ±5 |
| 15 | 462.55 | GMRS | 462.55 | 0 | 0 | 0.0005% | ±5 |
| 16 | 462.575 | GMRS | 462.575 | 0 | 0 | 0.0005% | ±5 |
| 17 | 462.6 | GMRS | 462.6 | 0 | 0 | 0.0005% | ±5 |
| 18 | 462.625 | GMRS | 462.625 | 0 | 0 | 0.0005% | ±5 |

| Frequency Tolerance | | | | | | | | |
|---------------------|-----------------|------|----------------|---------------|-----------------|-----------|------------------|--|
| CII # | Frequency (MHz) | ТҮРЕ | Result | | | FCC limit | RSS-210 limit | |
| CH# | | | Measured (MHz) | Tolerance (%) | Tolerance (ppm) | % | ppm | |
| 19 | 462.65 | GMRS | 462.65 | 0 | 0 | 0.0005% | ±5 | |
| 20 | 462.675 | GMRS | 462.675 | 0 | 0 | 0.0005% | ±5 | |
| 21 | 462.7 | GMRS | 462.7 | 0 | 0 | 0.0005% | ±5 | |
| 22 | 462.725 | GMRS | 462.725 | 0 | 0 | 0.0005% | ±5 | |

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Conclusion:PASS

Test Date : Apr,09,2015 Test Engineer : Leo Liu

| GMRS Channel | 4 | | | | | |
|----------------|-----------------|----------------|---------------|-----------------|------------------|-----|
| Temperature | Frequency (MHz) | | Result | FCC limit | RSS-210 limit | |
| (°C) | | Measured (MHz) | Tolerance (%) | Tolerance (ppm) | % | ppm |
| -30 | 462.6375 | 462.6372 | -0.000065 | -0.65 | 0.0005% | ±5 |
| -20 | 462.6375 | 462.6377 | 0.000043 | 0.43 | 0.0005% | ±5 |
| -10 | 462.6375 | 462.6375 | 0 | 0 | 0.0005% | ±5 |
| 0 | 462.6375 | 462.6373 | -0.000043 | -0.43 | 0.0005% | ±5 |
| 10 | 462.6375 | 462.6375 | 0 | 0 | 0.0005% | ±5 |
| 20 | 462.6375 | 462.6376 | 0.000022 | 0.22 | 0.0005% | ±5 |
| 30 | 462.6375 | 462.6375 | 0 | 0 | 0.0005% | ±5 |
| 40 | 462.6375 | 462.6375 | 0 | 0 | 0.0005% | ±5 |
| 50 | 462.6375 | 462.6374 | -0.000022 | -0.22 | 0.0005% | ±5 |
| FRS Channel 11 | | | | | | |
| -30 | 467.6375 | 467.6374 | -0.000021 | -021 | 0.00025% | ±5 |
| -20 | 467.6375 | 467.6375 | 0 | 0 | 0.00025% | ±5 |
| -10 | 467.6375 | 467.6376 | 0.000021 | 0.21 | 0.00025% | ±5 |
| 0 | 467.6375 | 467.6375 | 0 | 0 | 0.00025% | ±5 |
| 10 | 467.6375 | 467.6375 | 0 | 0 | 0.00025% | ±5 |
| 20 | 467.6375 | 467.6375 | 0 | 0 | 0.00025% | ±5 |
| 30 | 467.6375 | 467.6374 | -0.000021 | -0.21 | 0.00025% | ±5 |
| 40 | 467.6375 | 467.6375 | 0 | 0 | 0.00025% | ±5 |
| 50 | 467.6375 | 462.6372 | -0.000065 | -0.65 | 0.00025% | ±5 |

Conclusion:PASS

Test Date : Apr,09,2015 Test Engineer : Leo Liu

| | Freq | uency Deviatio | on With Voltag | ge Variation | | |
|------------------|-----------------|----------------|----------------|-----------------|------------------|-----|
| GMRS Channel | 4 | | | | | |
| VIII (VI) | Frequency (MHz) | | Result | FCC limit | RSS-210 limit | |
| Voltage(V) | | Measured (MHz) | Tolerance (%) | Tolerance (ppm) | % | ppm |
| 4.5 | 462.6375 | 462.6372 | -0.000065 | -0.65 | 0.0005% | ±5 |
| 4.2 | 462.6375 | 462.6375 | 0 | 0 | 0.0005% | ±5 |
| 4.0 | 462.6375 | 462.6376 | 0.000022 | 0.22 | 0.0005% | ±5 |
| 3.7 | 462.6375 | 462.6372 | -0.000065 | -0.65 | 0.0005% | ±5 |
| 3.4 | 462.6375 | 462.6375 | 0 | 0 | 0.0005% | ±5 |
| 3.2 | 462.6375 | 462.6373 | -0.000043 | -0.43 | 0.0005% | ±5 |
| 3.0 | 462.6375 | 462.6375 | 0 | 0 | 0.0005% | ±5 |
| FRS Channel 11 | l | | | | | |
| 4.5 | 467.6375 | 467.6375 | 0 | 0 | 0.00025% | ±5 |
| 4.2 | 467.6375 | 467.6377 | 0.000043 | 0.43 | 0.00025% | ±5 |
| 4.0 | 467.6375 | 467.6375 | 0 | 0 | 0.00025% | ±5 |
| 3.7 | 467.6375 | 467.6372 | -0.000064 | -0.64 | 0.00025% | ±5 |
| 3.4 | 467.6375 | 467.6374 | -0.000021 | -0.21 | 0.00025% | ±5 |
| 3.2 | 467.6375 | 467.6375 | 0 | 0 | 0.00025% | ±5 |
| 3.0 | 467.6375 | 467.6378 | 0.000064 | 0.64 | 0.00025% | ±5 |
| Conclusion:PA | SS | | | | | |
| Test Date : Apr. | 09,2015 | | Test E | ngineer : Leo | Liu | |

Report No: DDT-R15Q0311-1R4