



TEST REPORT

| | | |
|-------------------------------------|---|-----------------|
| Report Reference No | TRE18100183 | R/C.....: 57226 |
| FCC ID | 2AJGM-DM1703 | |
| Applicant's name | PO FUNG ELECTRONIC (HK) INTERNATIOANL GROUP COMPANY | |
| Address | 3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN Hong Kong | |
| Manufacturer..... | PO FUNG ELECTRONIC (HK) INTERNATIOANL GROUP COMPANY | |
| Address..... | 3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN Hong Kong | |
| Test item description | DMR Digital Radio | |
| Trade Mark | BAOFENG | |
| Model/Type reference | DM-1703 | |
| Listed Model(s)..... | - | |
| Standard..... | FCC CFR Title 47 Part 2 FCC CFR Title 47 Part 90 | |
| Date of receipt of test sample..... | Oct. 23, 2018 | |
| Date of testing..... | Oct. 23, 2018- Nov. 06, 2018 | |
| Date of issue..... | Nov. 07, 2018 | |
| Result | PASS | |

| | | |
|--|---------------------------------|--|
| Compiled by (position+printed name+signature) .. | File administrators Fanghui Zhu | |
| Supervised by (position+printed name+signature) .. | Project Engineer Jerry Wang | |
| Approved by (position+printed name+signature) .. | RF Manager Hans Hu | |

| | |
|------------------------------|--|
| Testing Laboratory Name..... | Shenzhen Huatongwei International Inspection Co., Ltd. |
| Address | 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China |

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The test report merely correspond to the test sample.

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1 **TEST STANDARDS AND REPORT VERSION**

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 2](#): Frequency allocations and radio treaty matters; General rules and regulations

[FCC Rules Part 90](#): Private land mobile radio services.

[ANSI C63.26-2015](#): American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

[ANSI/TIA-603-E\(2016\)](#): Land Mobile FM or PM Communications Equipment and Performance Standards

[FCC Part 15 Subpart B](#): Unintentional Radiators.

[ANSI C63.4-2014](#): 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

1.2. Report revised information

| Revised No. | Date of issued | Description |
|-------------|----------------|-------------|
| N/A | 2018-11-07 | Original |
| | | |
| | | |
| | | |
| | | |

2 TEST DESCRIPTION

| Test Item | Section in CFR 47 | Result | Test Engineer |
|---|----------------------------------|--------|---------------|
| Conducted Carrier Output Power | Part 90.205 Part 2.1046(a) | Pass | Gaosheng Pan |
| 99% Occupied Bandwidth & 26dB bandwidth | Part 90.209 & 210 Part 2.1049 | Pass | Gaosheng Pan |
| Emission Mask | Part 90.209 & 210 Part 2.1049 | Pass | Gaosheng Pan |
| Modulation Limit | Part 2.1047(b) | N/A | N/A |
| Audio Frequency Response | Part 2.1047(a) | N/A | N/A |
| Frequency Stability VS Temperature | Part 90.213 Part 2.1055 | Pass | Gaosheng Pan |
| Frequency Stability VS Voltage | Part 90.213 Part 2.1055 | Pass | Gaosheng Pan |
| Transient Frequency Behavior | Part 90.214 | Pass | Gaosheng Pan |
| Transmit Conducted Spurious Emission | Part 90.210 Part 2.1051 | Pass | Gaosheng Pan |
| Transmit Radiated Spurious Emission | Part 90.210 Part 2.1053 | Pass | Michael.Jie |
| AC Power Line Conducted Emission | Part 15.107 | Pass | Jeremy Zhang |
| Radiated Emission | Part 15.109 | Pass | Michael.Jie |

3 **SUMMARY**

3.1 Client Information

| | |
|---------------|---|
| Applicant: | PO FUNG ELECTRONIC (HK) INTERNATIOANL GROUP COMPANY |
| Address: | 3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN Hong Kong |
| Manufacturer: | PO FUNG ELECTRONIC (HK) INTERNATIOANL GROUP COMPANY |
| Address: | 3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN Hong Kong |

3.2 Product Description

| | |
|-----------------------|---|
| Name of EUT: | DMR Digital Radio |
| Trade mark: | BAOFENG |
| Model/Type reference: | DM-1703 |
| Listed model(s): | - |
| Power supply: | DC 7.4V |
| Battery information: | Model:DM-3 7.4Vd.c., 2200mAh/16.28Wh |
| Charger information: | Model:GW-1 Input:100-240Vd.c., 50/60Hz Output:5Vd.c., 1A |
| Adapter information: | Model:DM-1 Input:100-240Va.c., 50/60Hz Output:10Vd.c., 1A |
| Hardware version: | - |
| Software version: | 1703 |

RF Specification

| | | |
|---|--|--|
| Support Frequency Range: | 136 MHz~174MHz, 400MHz~470MHz | |
| Permitted frequency range: ^{*1} | 136 MHz~174MHz 400MHz~406MHz, 406.1MHz~470MHz | |
| Rated Output Power: | <input checked="" type="checkbox"/> High Power: 5W | <input checked="" type="checkbox"/> Low Power: 1W |
| Modulation Type: | Digital : | 4FSK |
| Supported Digital Protocol: ^{*2} | DMR | |
| Channel Separation: | Digital : | <input type="checkbox"/> 6.25kHz <input checked="" type="checkbox"/> 12.5kHz |
| Emission Designator: ^{*3} | Digital: | 7K60FXW, 7K60FXD |
| Support data rate: | 9.6kbps | |
| Antenna Type: | External | |

Note:

- (1) *¹ Listed frequency range 136MHz~150.05MHz, 400MHz~406MHz for Federal use Only.
- (2) *² The DMR standard specifies two-slot Time Division Multiplexing Technology to split the 12.5 kHz channel into two virtual 6.25kHz communication paths. This equates to an efficiency of one voice channel per 6.25 kHz of bandwidth even though it operates in channels of 12.5 kHz
- (3) *³ According to FCC Part 2.202 requirements, the Necessary Bandwidth is calculated as follows:

- For FM Data Modulation

Channel Spacing = 12.5 KHz, R = 9600 bps, D = 1944Hz, S = 4, K = 0.72

$$B_n = (R/\log_2 S) + 2DK \approx 7.6 \text{ KHz}$$

Emission designation: 7K60FXW, 7K60FXD

3.3 Test frequency list

According to ANSI C63.26 section 5.1.2.1:

Measurements of transmitters shall be performed and, if required, reported for each frequency band in which the EUT can be operated with the device transmitting at the number of frequencies in each band specified in Table 2.

| Frequency range over which EUT operates | Number of frequencies | Location in frequency range of operation |
|---|-----------------------|--|
| 1 MHz or less | 1 | Middle |
| 1 MHz to 10 MHz | 2 | 1 near top and 1 near bottom |
| More than 10 MHz | 3 | 1 near top, 1 near middle, and 1 near bottom |

| Frequency Bands (MHz) | Test Frequency (MHz) | |
|-----------------------------|----------------------|----------|
| 136MHz ~ 174MHz (VHF Band) | CH _L | 136.0125 |
| | CH _{M2} | 155.0125 |
| | CH _H | 173.9875 |
| 400MHz ~ 406MHz (UHF Band) | CH _L | 400.0125 |
| | CH _{M1} | 405.9875 |
| 406.1MHz ~470MHz (UHF Band) | CH _{M2} | 406.1125 |
| | CH _{M3} | 438.0125 |
| | CH _H | 469.9875 |

Note: UHF/VHF bands are marked in the report

3.4 Operation mode

| Test mode | Transmitting | Receiving | Digital | Power level | |
|-----------|--------------|-----------|---------|-------------|-----|
| | | | 12.5kHz | High | Low |
| TX-DNH | √ | | √ | √ | |
| TX-DNL | √ | | √ | | √ |
| RX-DN | | √ | √ | | |

Note:

√: is operation mode.

| Modulation Type | Description |
|-----------------|---|
| UM | Un-modulation |
| AM2 | Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation. |
| AM6 | Apply a 1000 Hz modulating signal to the transmitter from the audio frequency generator, and adjust the level to obtain 60% of full rated system deviation, then increase the level from the audio generator by 20 dB |
| AM5 | Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation. |
| DM | A 511 bit binary pseudo-random bit sequence based on ITU-T Rec. O.153 |

Pre-scan above all test mode, found below test mode which it was worse case mode, so only show the test data for worse case mode on the test report.

| Test item | Modulation Type | Test mode (Worse case mode) |
|---|-----------------|-----------------------------|
| Conducted Output Power | UM | TX-DNH, TX-DNL |
| 99% Occupied Bandwidth & 26dB bandwidth | DM | TX-DNH, TX-DNL |
| Emission Mask | UM ,DM | TX-DNH, TX-DNL |
| Modulation Limit | AM6 | N/A |
| Audio Frequency Response | AM2 | N/A |
| Frequency Stability VS Temperature | UM | TX-DNH, TX-DNL |
| Frequency Stability VS Voltage | UM | TX-DNH, TX-DNL |
| Transient Frequency Behavior | UM | TX-DNH |
| Transmit Conducted Spurious Emission | DM | TX-DNH |
| Transmit Radiated Spurious Emission | DM | TX-DNH |
| AC Power Line Conducted Emission | - | RX-DN |
| Radiated Emission | - | RX-DN |

3.5 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

| | | | |
|---|-------------|----------------|--------------|
| ● | Power Cable | Length (m) : | / |
| | | Shield : | Unshielded |
| | | Detachable : | Undetachable |
| ○ | Multimeter | Manufacturer : | / |
| | | Model No. : | / |

4 **TEST ENVIRONMENT**

4.1 Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235.

IC-Registration No.: 5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3 Environmental conditions

| Atmospheric Conditions | |
|-----------------------------------|-----------------------|
| Temperature: | 21°C to 25°C |
| Relative Humidity: | 20 % to 75 %. |
| Atmospheric Pressure: | 860 mbar to 1060 mbar |
| Normal Test Voltage: | $V_N = DC\ 7.40V$ |
| Extrem Test Voltage @115% V_N : | $V_H = DC\ 8.51V$ |
| Extrem Test Voltage @85% V_N : | $V_L = DC\ 6.29V$ |

4.4 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

| Test Items | Measurement Uncertainty | Notes |
|---|-------------------------|-------|
| Frequency stability | 25 Hz | (1) |
| Transmitter power conducted | 0.57 dB | (1) |
| Transmitter power Radiated | 2.20 dB | (1) |
| Conducted spurious emission 9KHz-40 GHz | 1.60 dB | (1) |
| Conducted Emission 9KHz-30MHz | 3.39 dB | (1) |
| Radiated Emission 30~1000MHz | 4.65 dB | (1) |
| Radiated Emission 1~18GHz | 5.16 dB | (1) |
| Radiated Emission 18-40GHz | 5.54 dB | (1) |
| Occupied Bandwidth | 35 Hz | (1) |
| FM deviation | 25 Hz | (1) |
| Audio level | 0.62 dB | (1) |
| Low Pass Filter Response | 0.76 dB | (1) |
| Modulation Limiting | 0.42 % | (1) |
| Transient Frequency Behavior | 6.8 % | (1) |

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.5 Equipments Used during the Test

| ● AC Power Line Conducted Emission | | | | | | |
|------------------------------------|----------------------------------|--------------------|-----------------|------------|---------------------------|---------------------------|
| Used | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ● | Shielded Room | Albatross projects | N/A | N/A | 2018/09/28 | 2023/09/27 |
| ● | EMI Test Receiver | R&S | ESCI | 101247 | 2018/10/27 | 2019/10/26 |
| ● | Artificial Mains | SCHWARZBECK | NNLK 8121 | 573 | 2018/10/27 | 2019/10/26 |
| ● | Pulse Limiter | R&S | ESH3-Z2 | 100499 | 2018/10/27 | 2019/10/26 |
| ● | RF Connection Cable | HUBER+SUHNER | EF400 | N/A | 2018/11/15 | 2019/11/14 |
| ● | Test Software | R&S | ES-K1 | N/A | N/A | N/A |
| ○ | Single Balanced Telecom Pair ISN | FCC | FCC-TLISN-T2-02 | 20371 | 2018/10/28 | 2019/10/27 |
| ○ | Two Balanced Telecom Pairs ISN | FCC | FCC-TLISN-T4-02 | 20373 | 2018/10/28 | 2019/10/27 |
| ○ | Four Balanced Telecom Pairs ISN | FCC | FCC-TLISN-T8-02 | 20375 | 2018/10/28 | 2019/10/27 |
| ○ | V-Network | R&S | ESH3-Z6 | 100211 | 2018/10/27 | 2019/10/26 |
| ○ | V-Network | R&S | ESH3-Z6 | 100210 | 2018/10/27 | 2019/10/26 |
| ○ | 2-Line V-Network | R&S | ESH3-Z5 | 100049 | 2018/10/27 | 2019/10/26 |

| ● RF Conducted Test | | | | | | |
|---------------------|---------------------------------------|--------------|--------------|------------|---------------------------|---------------------------|
| Used | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ● | Spectrum Analyzer | Agilent | N9020A | MY50510187 | 2018/09/29 | 2019/09/28 |
| ● | Signal & Spectrum Analyzer | R&S | FSW26 | 103440 | 2018/10/28 | 2019/10/27 |
| ● | RF Communication Test Set | HP | 8920A | 3813A10206 | 2018/10/28 | 2019/10/27 |
| ● | Digital intercom communication tester | Aeroflex | 3920B | 1001682041 | 2018/10/28 | 2019/10/27 |
| ● | Signal Generator | R&S | SML02 | 100507 | 2018/10/27 | 2019/10/26 |
| ● | Signal Generator | IFR | 2032 | 203002\100 | 2018/11/11 | 2019/11/10 |
| ● | RF Control Unit | Tonscend | JS0806-2 | N/A | N/A | N/A |
| ● | Fliter-VHF | Microwave | N26460M1 | 498702 | 2018/03/19 | 2019/03/18 |
| ● | Fliter-UHF | Microwave | N25155M2 | 498704 | 2018/03/19 | 2019/03/18 |
| ○ | Power Divider | Microwave | OPD1040-N-4 | N/A | 2018/11/15 | 2019/11/14 |
| ● | Attenuator | JFW | 50FH-030-100 | N/A | 2018/11/15 | 2019/11/14 |
| ● | Attenuator | JFW | 50-A-MFN-20 | 0322 | 2018/11/15 | 2019/11/14 |
| ● | Test software | HTW | Radio ATE | N/A | N/A | N/A |

| ● Auxiliary Equipment | | | | | | |
|-----------------------|-----------------|--------------|-----------|------------|---------------------------|---------------------------|
| Used | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ● | Climate chamber | ESPEC | GPL-2 | N/A | 2018/11/08 | 2019/11/07 |
| ● | DC Power Supply | Gwinstek | SPS-2415 | GER835793 | 2018/10/28 | 2019/10/27 |

● **Radiated Spurious Emission**

| Used | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
|------|-------------------------|--------------------|-------------|------------|---------------------------|---------------------------|
| ● | Semi-Anechoic Chamber | Albatross projects | SAC-3m-01 | N/A | 2018/09/30 | 2021/09/29 |
| ● | Spectrum Analyzer | R&S | FSP40 | 100597 | 2018/10/27 | 2019/10/26 |
| ● | Loop Antenna | R&S | HFH2-Z2 | 100020 | 2017/11/20 | 2020/11/19 |
| ● | Ultra-Broadband Antenna | SCHWARZBECK | VULB9163 | 538 | 2017/04/05 | 2020/04/04 |
| ● | Horn Antenna | SCHWARZBECK | 9120D | 1011 | 2017/04/01 | 2020/03/31 |
| ○ | Horn Antenna | SCHWARZBECK | BBHA9170 | 25841 | 2017/03/27 | 2020/03/26 |
| ○ | Pre-amplifier | BONN | BLWA0160-2M | 1811887 | 2018/11/14 | 2019/11/13 |
| ● | Pre-amplifier | CD | PAP-0102 | 12004 | 2018/11/14 | 2019/11/13 |
| ● | Broadband Preamplifier | SCHWARZBECK | BBV 9718 | 9718-248 | 2018/04/28 | 2019/04/27 |
| ● | RF Connection Cable | HUBER+SUHNER | RE-7-FH | N/A | 2018/11/15 | 2019/11/14 |
| ● | RF Connection Cable | HUBER+SUHNER | RE-7-FL | N/A | 2018/11/15 | 2019/11/14 |
| ● | EMI Test Software | Audix | E3 | N/A | N/A | N/A |
| ● | Turntable | MATURO | TT2.0 | N/A | N/A | N/A |
| ● | Antenna Mast | MATURO | TAM-4.0-P | N/A | N/A | N/A |

● **Auxiliary Equipment**

| Used | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
|------|-------------------------------|--------------|------------------|------------|---------------------------|---------------------------|
| ○ | Radio communication tester | R&S | CMW500 | 137688-Lv | 2018/09/29 | 2019/09/28 |
| ○ | Universal Radio Communication | R&S | CMU200 | 112012 | 2018/10/28 | 2019/10/27 |
| ○ | High pass filter | Wainwright | WHKX3.0/18G-10SS | 38 | 2018/11/14 | 2019/11/13 |
| ○ | Band rejection filter | Microwave | N/A | N/A | 2018/11/14 | 2019/11/13 |

5 TEST CONDITIONS AND RESULTS

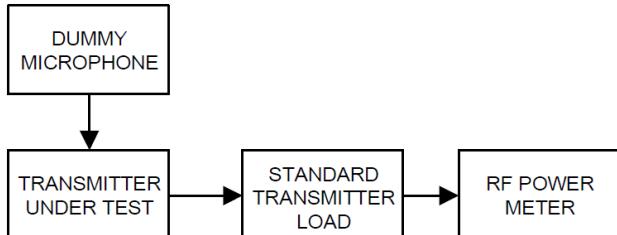
5.1 Conducted Carrier Output Power

LIMIT

FCC Part 90.205, FCC Part 2.1046

Applicants for licenses must request and use no more power than the actual power necessary for satisfactory operation.

TEST CONFIGURATION



TEST PROCEDURE

- (1) Connect the equipment as illustrated
- (2) Correct for all losses in the RF path
- (3) Measure the transmitter output power
- (4) If the power output is adjustable, measurements shall be made for the highest and lowest power levels.

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Passed Not Applicable

Please refer to appendix A on the section 8 appendix report

5.2 99% Occupied Bandwidth & 26dB Bandwidth

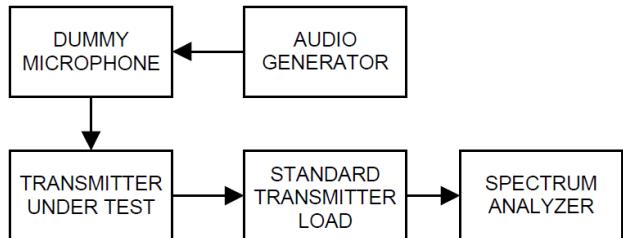
LIMIT

FCC Part 90.209, FCC Part 2.1049

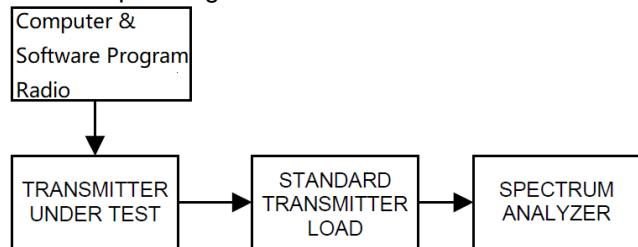
| Frequency band (MHz) | Channel spacing (kHz) | Authorized bandwidth (kHz) |
|---------------------------------------|-----------------------|----------------------------|
| Below 25 ² | | |
| 25-50 | 20 | 20 |
| 72-76 | 20 | 20 |
| 150-174 | 17.5 | 1 ³ 20/11.25/6 |
| 216-220 ⁵ | 6.25 | 20/11.25/6 |
| 220-222 | 5 | 4 |
| 406-512 ² | 16.25 | 1 ³ 620/11.25/6 |
| 806-809/851-854 | 12.5 | 20 |
| 809-824/854-869 | 25 | 620 |
| 896-901/935-940 | 12.5 | 13.6 |
| 902-928 ⁴ | | |
| 929-930 | 25 | 20 |
| 1427-1432 ⁵ | 12.5 | 12.5 |
| ³ 2450-2483.5 ² | | |
| Above 2500 ² | | |

TEST CONFIGURATION

Test setup for Analog:



Test setup for Digital:



TEST PROCEDURE

(1) Connect the equipment as illustrated

(2) Spectrum set as follow:

Centre frequency = the nominal EUT channel center frequency,

The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times$ OBW is sufficient)

RBW = 1% to 5% of the anticipated OBW, VBW $\geq 3 \times$ RBW, Sweep = auto,

Detector function = peak, Trace = max hold

(3) Set 99% Occupied Bandwidth and 26dB Bandwidth

(4) Measure and record the results in the test report.

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Passed Not Applicable

Please refer to appendix B on the section 8 appendix report

5.3 Emission Mask

LIMIT

FCC Part 90.210, FCC Part 2.1049

| Frequency band (MHz) | Mask for equipment with audio low pass filter | Mask for equipment without audio low pass filter |
|---|---|--|
| Below 25 ¹ | A or B | A or C |
| 25-50 | B | C |
| 72-76 | B | C |
| 150-174 ² | B, D, or E | C, D or E |
| 150 paging only | B | C |
| 220-222 | F | F |
| 421-512 ² ⁵ | B, D, or E | C, D, or E |
| 450 paging only | B | G |
| 806-809/851-854 ⁶ | B | H |
| 809-824/854-869 ³ ⁵ | B | G |
| 896-901/935-940 | I | J |
| 902-928 | K | K |
| 929-930 | B | G |
| 4940-4990 MHz | L or M | L or M |
| 5850-5925 ⁴ | | |
| All other bands | B | C |

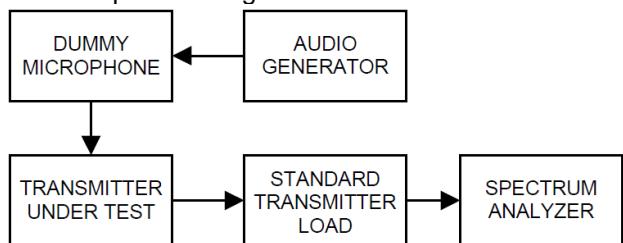
Emission Mask D — 12.5 kHz channel bandwidth equipment

For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

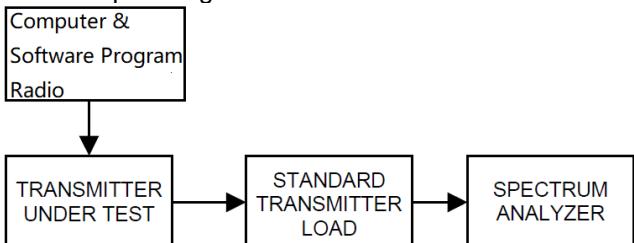
- (1) On any frequency from the centre of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : 0dB
- (2) On any frequency removed from the centre of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88 \text{ kHz})$ dB.
- (3) On any frequency removed from the centre 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.

TEST CONFIGURATION

Test setup for Analog:



Test setup for Digital:



TEST PROCEDURE

- 1) Connect the equipment as illustrated.
- 2) Spectrum set as follow:
Centre frequency = fundamental frequency, span=120kHz for 12.5kHz channel spacing,
RBW=100Hz, VBW=1000Hz, Sweep = auto,
Detector function = peak, Trace = max hold
- 3) Key the transmitter, and set the level of the unmodulated carrier to a full scale reference line. This is the 0dB reference for the measurement.
- 4) Apply Input Modulation Signal to EUT according to Section 3.4
- 5) Measure and record the results in the test report.

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Passed Not Applicable

Please refer to appendix C on the section 8 appendix report

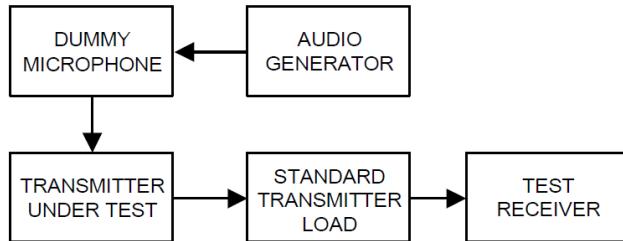
5.4 Modulation Limit

LIMIT

FCC Part 2.1047(b)

2.5kHz for 12.5 KHz Channel Spacing System

TEST CONFIGURATION



TEST PROCEDURE

- 1) Connect the equipment as illustrated.
- 2) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- 3) Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤ 0.25 Hz to $\geq 15,000$ Hz. Turn the de-emphasis function off.
- 4) Apply Input Modulation Signal to EUT according to Section 3.4 and vary the input level from -20 to +20dB.
- 5) Measure both the instantaneous and steady-state deviation at and after the time of increasing the audio input level
- 6) Repeat step 4-5 with input frequency changing to 300Hz, 1004Hz, 1500Hz and 2500Hz in sequence.

TEST MODE

Please reference to the section 3.4

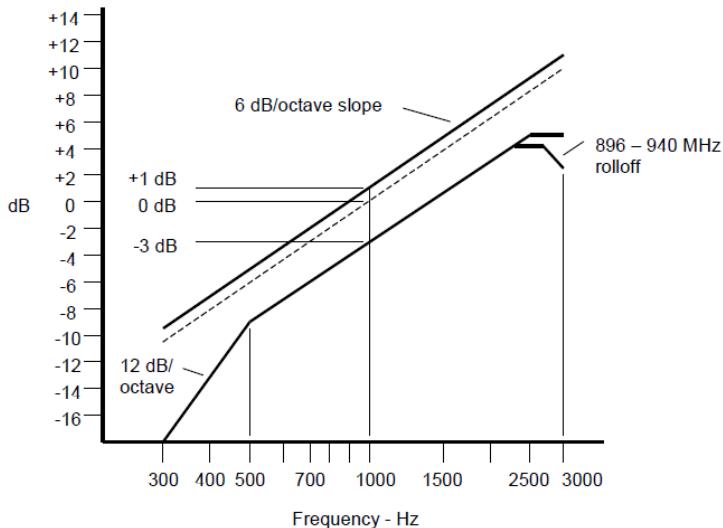
TEST RESULTS

Passed Not Applicable

5.5 Audio Frequency Response

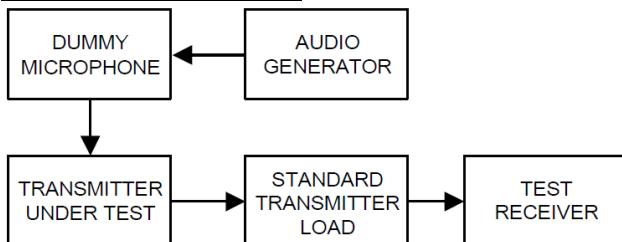
LIMIT

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.



An additional 6 dB per octave attenuation is allowed from 2500 Hz to 3000 Hz in equipment operating in the 25 MHz to 869 MHz range.

TEST CONFIGURATION



TEST PROCEDURE

- 1) Connect the equipment as illustrated.
- 2) Set the test receiver to measure peak positive deviation. Set the audio bandwidth for 50 Hz to 15,000 Hz. Turn the de-emphasis function off.
- 3) Set the DMM to measure rms voltage.
- 4) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- 5) Apply Input Modulation Signal to EUT according to Section 3.4
- 6) Set the test receiver to measure rms deviation and record the deviation reading.
- 7) Record the DMM reading as V_{REF} .
- 8) Set the audio frequency generator to the desired test frequency between 300 Hz and 3000 Hz.
- 9) Vary the audio frequency generator output level until the deviation reading that was recorded in step 6) is obtained.
- 10) Record the DMM reading as V_{FREQ}
- 11) Calculate the audio frequency response at the present frequency as:

$$\text{audio frequency response} = 20 \log_{10} (V_{FREQ}/V_{REF})$$
- 12) Repeat steps 8) through 11) for all the desired test frequencies

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Passed Not Applicable

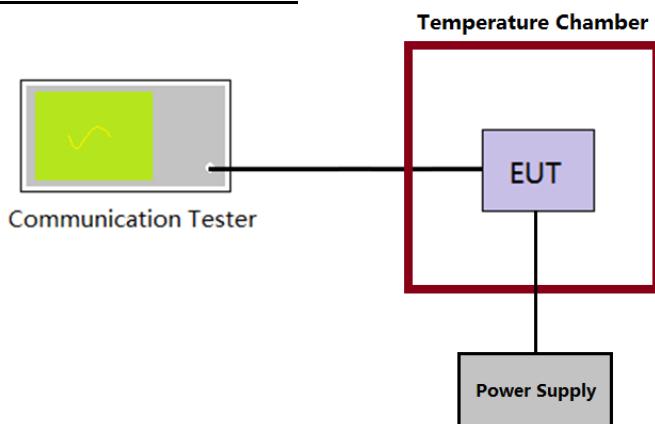
5.6 Frequency stability VS Temperature

LIMIT

FCC Part 90.213, FCC Part 2.1055

| Frequency range (MHz) | Fixed and base stations | Mobile stations | |
|--------------------------|-------------------------|---------------------------|------------------------------|
| | | Over 2 watts output power | 2 watts or less output power |
| Below 25 | 1 2 3 100 | 100 | 200 |
| 25-50 | 20 | 20 | 50 |
| 72-76 | 5 | | 50 |
| 150-174 | 5 11 5 | 65 | 4 6 50 |
| 216-220 | 1.0 | | 1.0 |
| 220-222 ¹² | 0.1 | 1.5 | 1.5 |
| 421-512 | 7 11 14 2.5 | 85 | 85 |
| 806-809 | 14 1.0 | 1.5 | 1.5 |
| 809-824 | 14 1.5 | 2.5 | 2.5 |
| 851-854 | 1.0 | 1.5 | 1.5 |
| 854-869 | 1.5 | 2.5 | 2.5 |
| 896-901 | 14 0.1 | 1.5 | 1.5 |
| 902-928 | 2.5 | 2.5 | 2.5 |
| 902-928 ¹³ | 2.5 | 2.5 | 2.5 |
| 929-930 | 1.5 | | |
| 935-940 | 0.1 | 1.5 | 1.5 |
| 1427-1435 | 9 300 | 300 | 300 |
| Above 2450 ¹⁰ | | | |

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT output port was connected to communication tester.
- 2) The EUT was placed inside the temperature chamber.
- 3) Turn EUT off and set the chamber temperature to -30°C . After the temperature stabilized for approximately 30 minutes recorded the frequency as MCF_{MHz} .
- 4) Calculate the ppm frequency error by the following:

$$\text{ppm error} = (MCF_{\text{MHz}} / ACF_{\text{MHz}} - 1) * 10^6$$

where
 MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz
- 5) Repeat step 3 measure with 10°C increased per stage until the highest temperature of $+50^{\circ}\text{C}$ reached.

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Passed Not Applicable

Please refer to appendix F on the section 8 appendix report

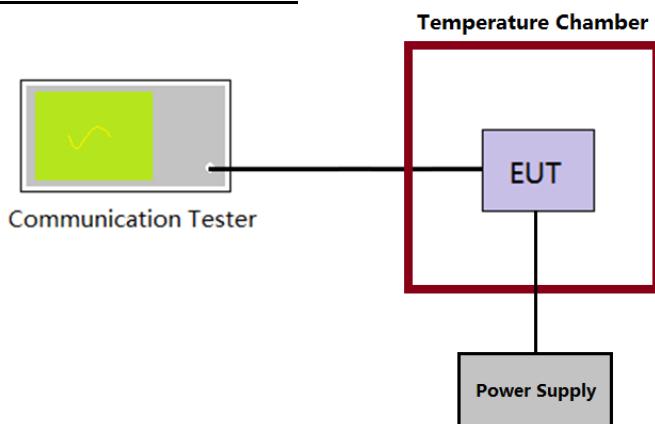
5.7 Frequency stability VS Voltage

LIMIT

FCC Part 90.213, FCC Part 2.1055

| Frequency range (MHz) | Fixed and base stations | Mobile stations | |
|--------------------------|-------------------------|---------------------------|------------------------------|
| | | Over 2 watts output power | 2 watts or less output power |
| Below 25 | 1 2 3 100 | 100 | 200 |
| 25-50 | 20 | 20 | 50 |
| 72-76 | 5 | | 50 |
| 150-174 | 5 11 5 | 65 | 4 6 50 |
| 216-220 | 1.0 | | 1.0 |
| 220-222 ¹² | 0.1 | 1.5 | 1.5 |
| 421-512 | 7 11 14 2.5 | 85 | 85 |
| 806-809 | 14 1.0 | 1.5 | 1.5 |
| 809-824 | 14 1.5 | 2.5 | 2.5 |
| 851-854 | 1.0 | 1.5 | 1.5 |
| 854-869 | 1.5 | 2.5 | 2.5 |
| 896-901 | 14 0.1 | 1.5 | 1.5 |
| 902-928 | 2.5 | 2.5 | 2.5 |
| 902-928 ¹³ | 2.5 | 2.5 | 2.5 |
| 929-930 | 1.5 | | |
| 935-940 | 0.1 | 1.5 | 1.5 |
| 1427-1435 | 9 300 | 300 | 300 |
| Above 2450 ¹⁰ | | | |

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT output port was connected to communication tester.
- 2) The EUT was placed inside the temperature chamber at 25°C
- 3) Record the carrier frequency of the transmitter as MCF_{MHz}
- 4) Calculate the ppm frequency error by the following:

$$\text{ppm error} = (MCF_{MHz}/ACF_{MHz} - 1) * 10^6$$

where
 MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz
- 5) Repeat step 3 measure with varied $\pm 15\%$ of the nominal value measured at the input to the EUT

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Passed Not Applicable

Please refer to appendix G on the section 8 appendix report

5.8 Transmitter Frequency Behavior

LIMIT

FCC part 90.214

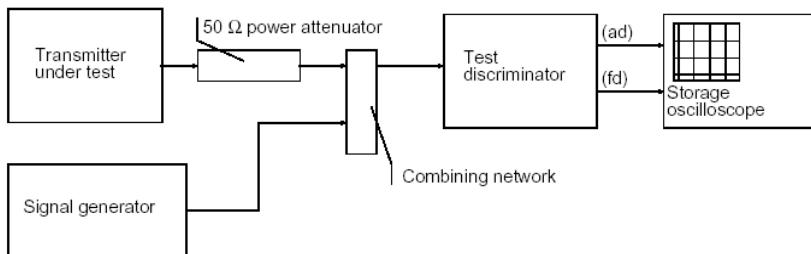
Transmitters designed to operate in the 150-174 MHz and 421-512 MHz frequency bands must maintain transient frequencies within the maximum frequency difference limits during the time intervals indicated:

| Time intervals ^{1,2} | Maximum frequency difference ³ | All equipment | |
|---|---|----------------|----------------|
| | | 150 to 174 MHz | 421 to 512 MHz |
| Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels | | | |
| t ₁ ⁴ | ±25.0 kHz | 5.0 ms | 10.0 ms |
| t ₂ | ±12.5 kHz | 20.0 ms | 25.0 ms |
| t ₃ ⁴ | ±25.0 kHz | 5.0 ms | 10.0 ms |
| Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels | | | |
| t ₁ ⁴ | ±12.5 kHz | 5.0 ms | 10.0 ms |
| t ₂ | ±6.25 kHz | 20.0 ms | 25.0 ms |
| t ₃ ⁴ | ±12.5 kHz | 5.0 ms | 10.0 ms |
| Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels | | | |
| t ₁ ⁴ | ±6.25 kHz | 5.0 ms | 10.0 ms |
| t ₂ | ±3.125 kHz | 20.0 ms | 25.0 ms |
| t ₃ ⁴ | ±6.25 kHz | 5.0 ms | 10.0 ms |

Note:

1. On is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.
- 1) t₁ is the time period immediately following ton.
- 2) t₂ is the time period immediately following t₁.
- 3) t₃ is the time period from the instant when the transmitter is turned off until toff.
- 4) t_{off} is the instant when the 1 kHz test signal starts to rise.
2. During the time from the end of t₂ to the beginning of t₃, the frequency difference must not exceed the limits specified in §90.213.
3. Difference between the actual transmitter frequency and the assigned transmitter frequency.
4. 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.

TEST CONFIGURATION



TEST PROCEDURE

- 1) Connect DUT into Test discriminator and Storage Oscilloscope and keep DUT stats ON;
- 2) Input 1kHz signal into DUT;
- 3) Set the modulation domain analyzer to trigger on the rising edge of the waveform in order to capture a single-shot turn-on of the transmitter signals;
- 4) Keep DUT in OFF state and Key the PTT;
- 5) Observe the stored oscilloscope of modulation domain analyzer. The signal trace shall be maintained within the allowable limits during the periods t₁ and t₂, and shall also remain within limits following t₂;
- 6) Adjust the modulation domain analyzer to trigger on the falling edge of the transmitter waveform in order to capture a single-shot turn-off transmitter of the transmitter signal.
- 7) Keep the digital portable radio in ON state and unkey the PTT;
- 8) Observe the stored oscilloscope of modulation domain analyzer. The signal trace shall be maintained within the allowable limits during the period t₃.
- 9) Set the signal generator to the assigned transmitter frequency and modulate it with a 1 kHz tone at ±12.5 kHz deviation and set its output level to -100dBm.
- 10) Turn on the transmitter.

- 11) Supply sufficient attenuation via the RF attenuator to provide an input level to the stored oscilloscope
- 12) that is 40 dB below the maximum allowed input power when the transmitter is operating at its rated power level. Note this power level on the stored oscilloscope as P_0 .
- 13) Turn off the transmitter.
- 14) Adjust the RF level of the signal generator to provide RF power equal to P_0 . This signal generator RF level shall be maintained throughout the rest of the measurement.
- 15) Remove the attenuation, so the input power to the stored oscilloscope is increased by 30 dB when the transmitter is turned on.
- 16) Adjust the vertical amplitude control of the stored oscilloscope to display the 1000 Hz at ± 4 divisions vertically centered on the display. Set trigger mode of the Spectrum Analyzer to "Video", and tune the "trigger level" on suitable level. Then set the "tiger offset" to -10ms for turn on and -15ms for turn off.
- 17) Turn on the transmitter and the transient wave will be captured on the screen of Spectrum Analyzer. Observe the stored display. The instant when the 1 kHz test signal is completely suppressed is considered to be t_1 . The trace should be maintained within the allowed divisions during the period t_1 and t_2 .
- 18) Then turn off the transmitter, and another transient wave will be captured on the screen of Spectrum Analyzer. The trace should be maintained within the allowed divisions during the period t_3 .

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Passed Not Applicable

Please refer to appendix H on the section 8 appendix report

5.9 Transmit Conducted Spurious Emission

LIMIT

FCC Part 90.210, FCC Part 2.1051

Emission Mask D—12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 12.5 kHz: At least $50 + 10 \log (P)$ dB or 70 dB, whichever is the lesser attenuation.

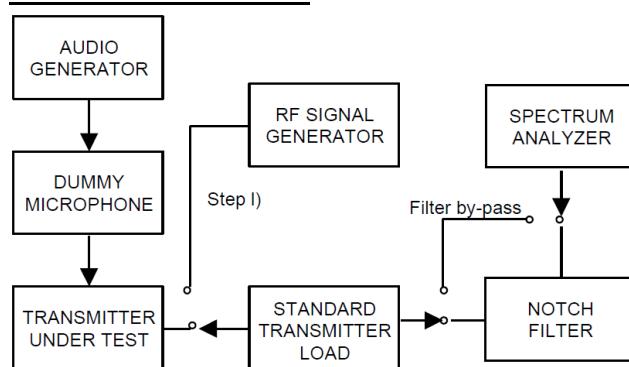
In general, the worse case attenuation requirement shown above was applied.

Calculation: Limit (dBm) = $EL - 50 - 10 \log (P)$

EL is the emission level of the Output Power expressed in dBm,

Limit (dBm) = $P(dBm) - 50 - 10 \log (Pwatts) = -20dBm$

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the equipment as illustrated, with the notch filter by-passed.
2. Apply Input Modulation Signal to EUT according to Section 3.4
3. Adjust the spectrum analyzer for the following settings:
Below 1GHz: RBW=100kHz, VBW=300kHz
Above 1GHz: RBW=1MHz, VBW=3MHz
Detector=Peak, Sweep time=Auto, Trace=Max hold
4. Scan frequency range up to 10th harmonic.
5. Record the frequencies and levels of spurious emissions

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Passed Not Applicable

Please refer to appendix I on the section 8 appendix report

5.10 Transmitter Radiated Spurious Emission

Radiated spurious emissions are emissions from the equipment when transmitting into a nonradiating load on a frequency or frequencies that are outside an occupied band sufficient to ensure transmission of information of required quality for the class of communications desired.

LIMIT

FCC Part 90.210, FCC Part 2.1051

Emission Mask D—12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 12.5 kHz: At least $50 + 10 \log (P)$ dB or 70 dB, whichever is the lesser attenuation.

Emission Mask E—6.25 kHz or less channel bandwidth equipment. For transmitters designed to operate with a 6.25 kHz or less bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(3) On any frequency removed from the center of the authorized bandwidth by more than 4.6 kHz: At least $55 + 10 \log (P)$ or 65 dB, whichever is the lesser attenuation.

In general, the worse case attenuation requirement shown above was applied.

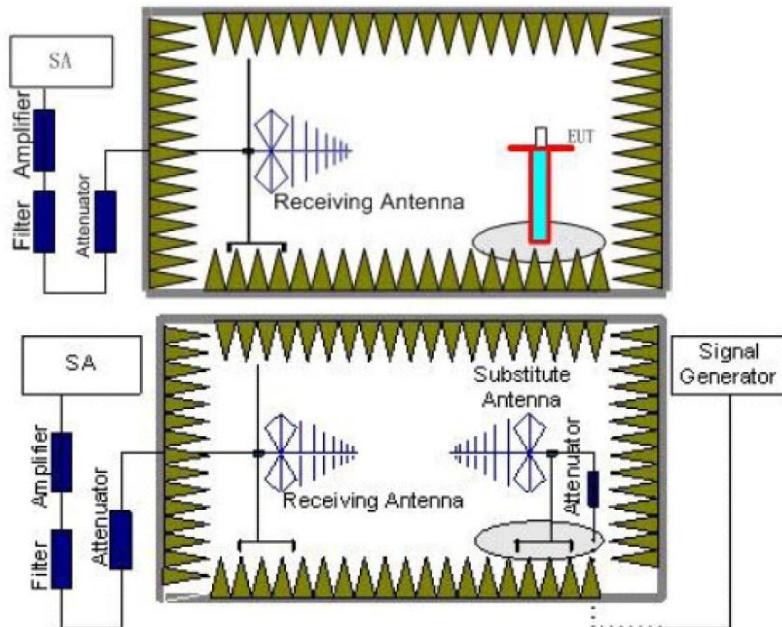
Calculation: Limit (dBm) = $EL - 50 - 10 \log (P)$

EL is the emission level of the Output Power expressed in dBm,

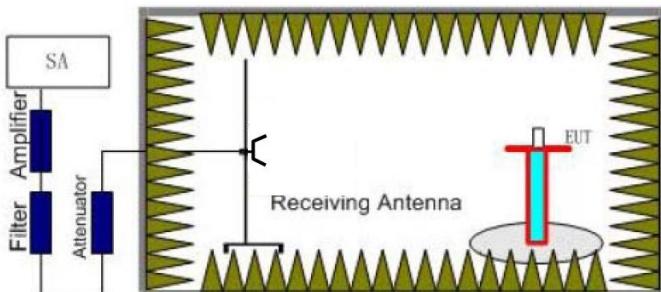
Limit (dBm) = $P(dBm) - 50 - 10 \log (Pwatts) = -20dBm$

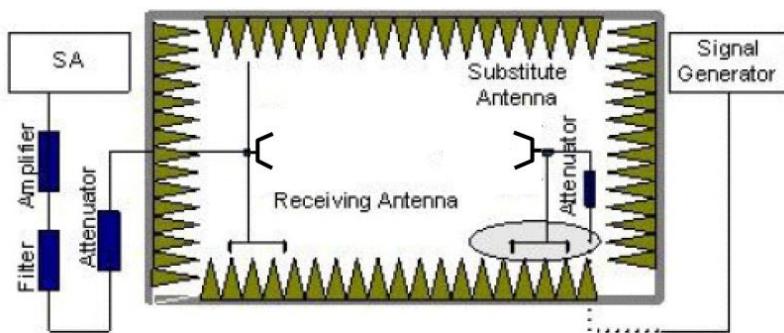
TEST CONFIGURATION

Below 1GHz:



Above 1GHz:





TEST PROCEDURE

1. Standard Transmitter Load with a 50Ω input impedance and an output impedance matched to the test equipment.
2. EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.0 m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in six channels were measured with peak detector.
3. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz for above 1GHz and RBW=100kHz, VBW=300kHz for 30MHz to 1GHz, And the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl), the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
The measurement results are obtained as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} - \text{Ga}$$
We used SMF100A microwave signal generator which signal level can up to 33dBm, so we not used power Amplifier for substitution test; The measurement results are amend as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} - \text{Ga}$$
7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
8. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$.

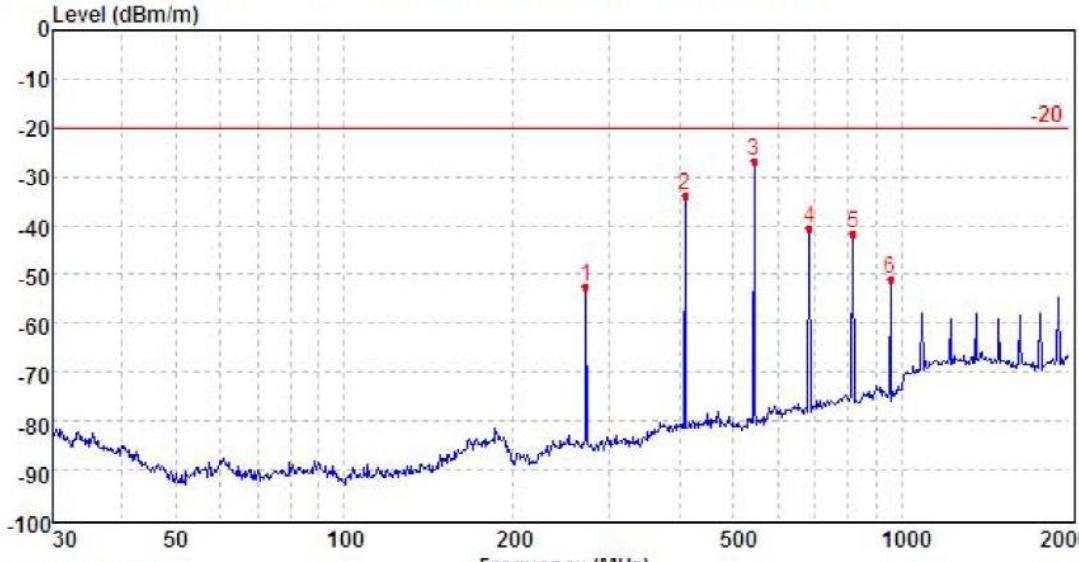
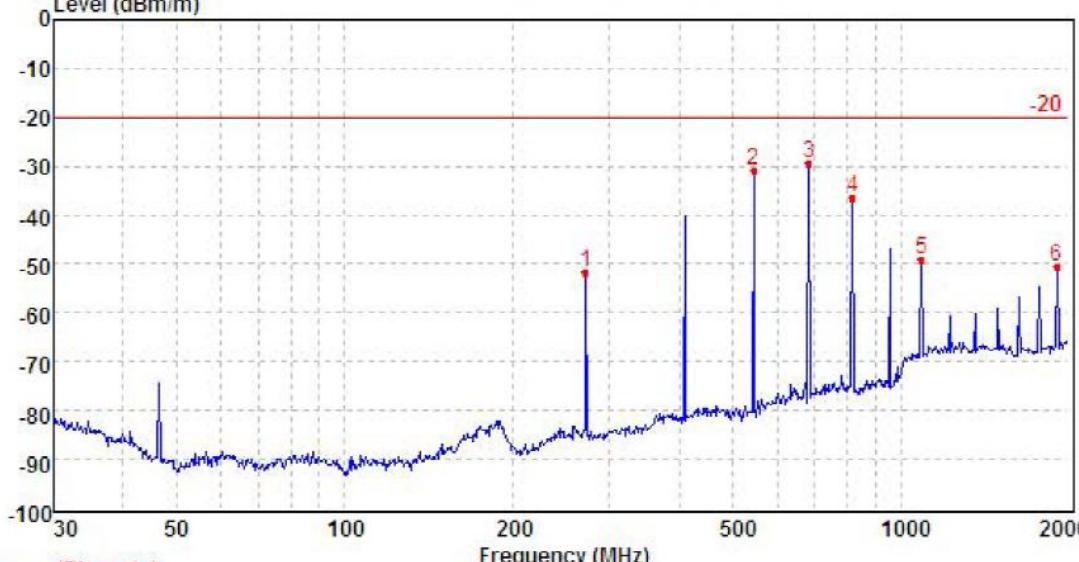
TEST MODE

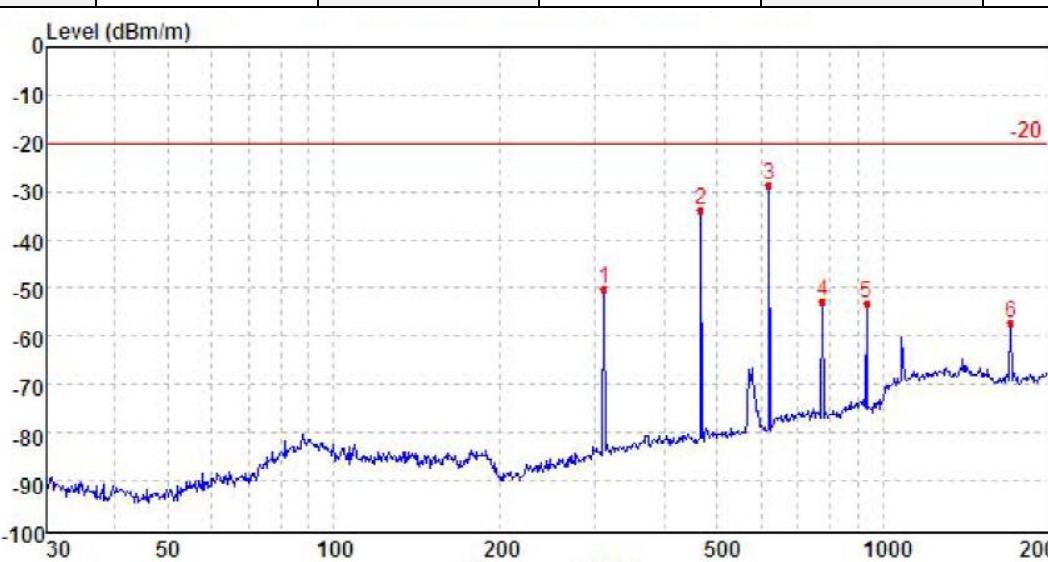
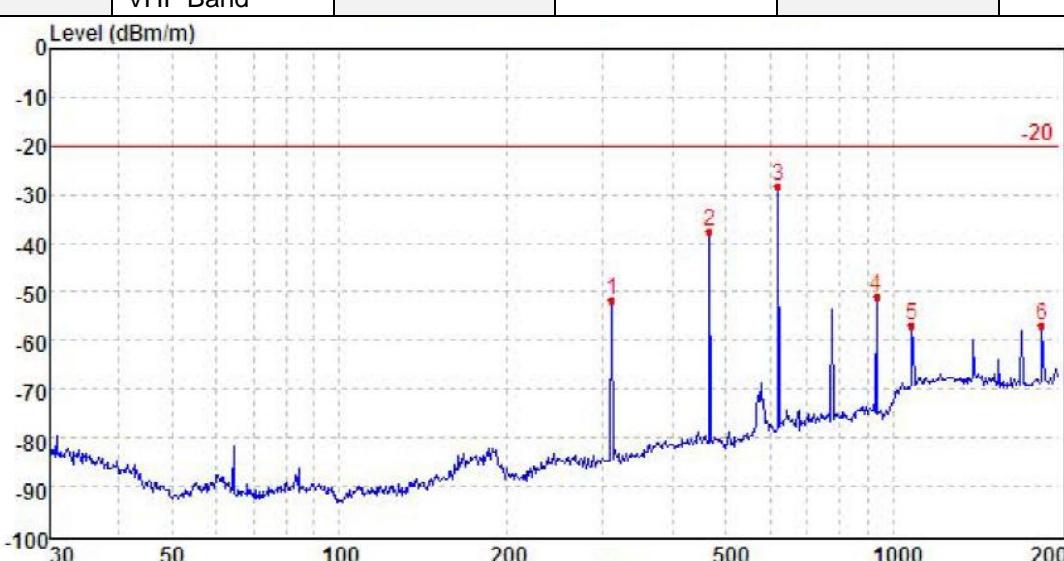
Please reference to the section 3.4

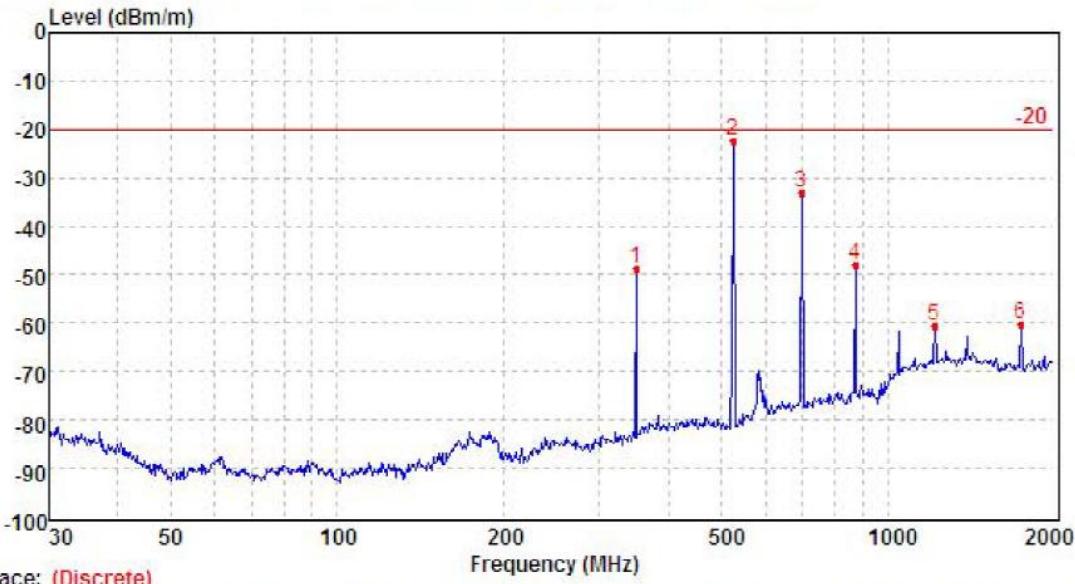
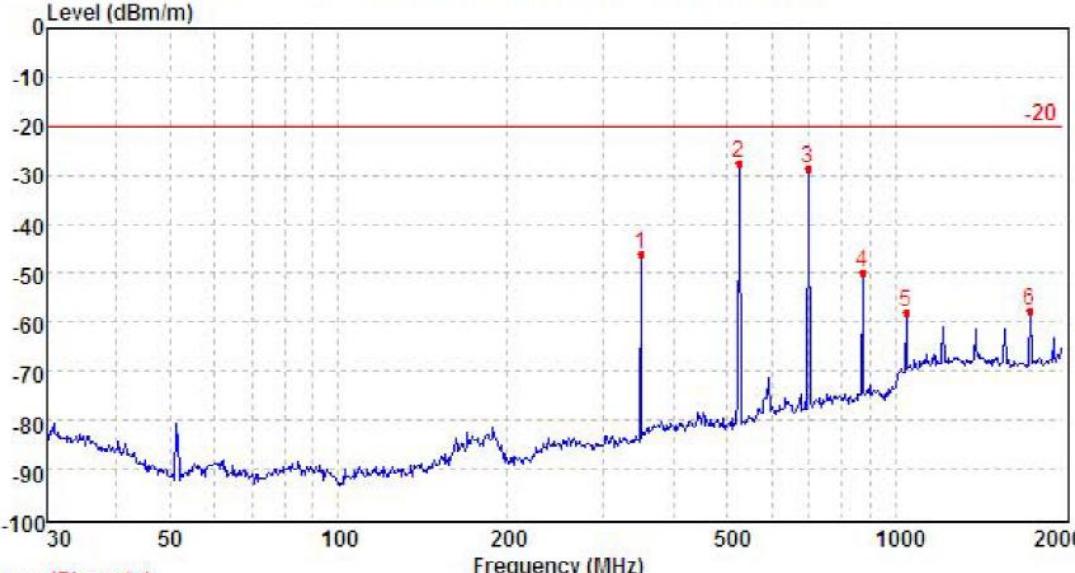
TEST RESULTS

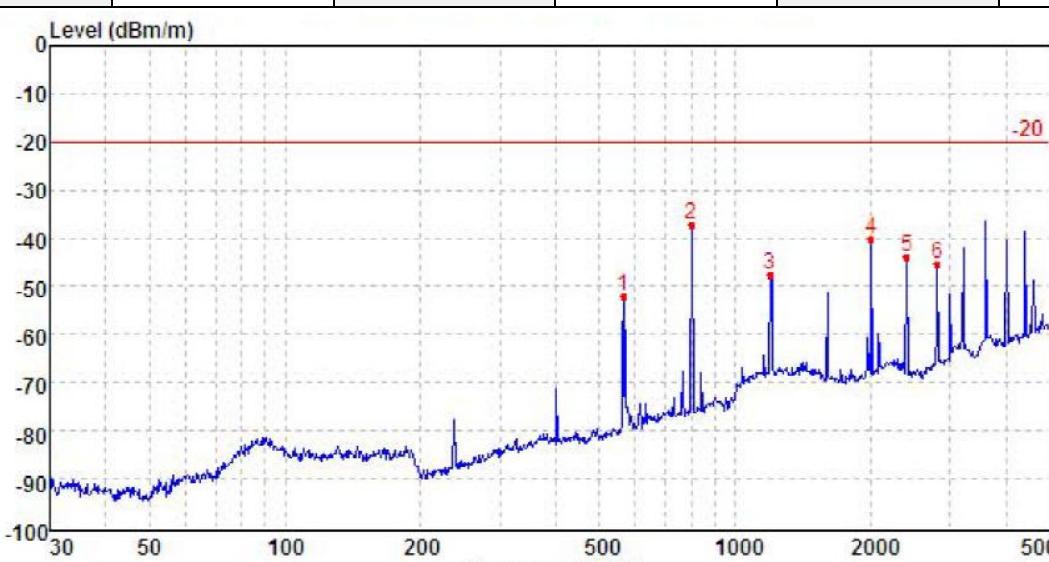
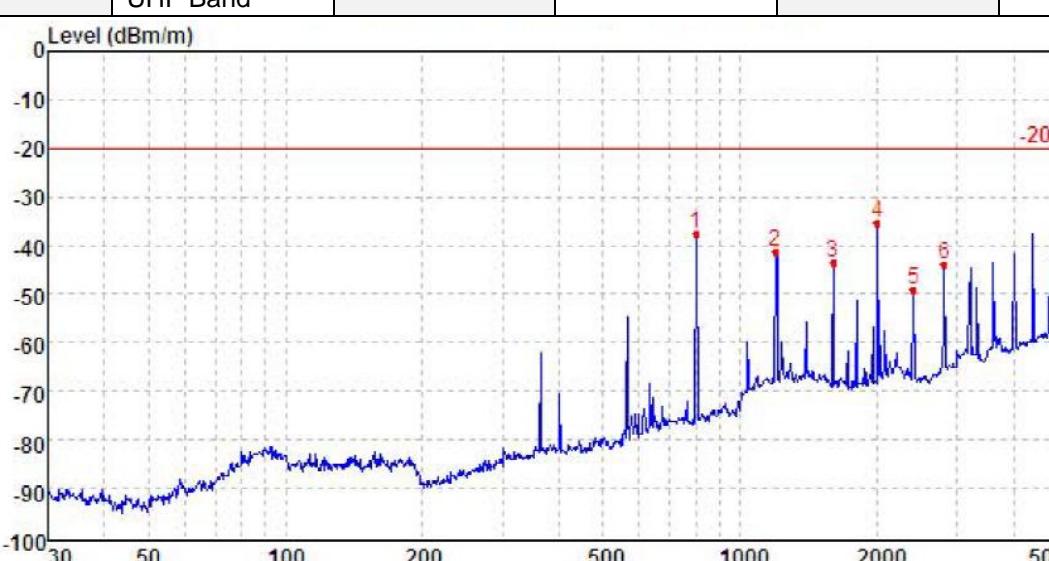
Passed

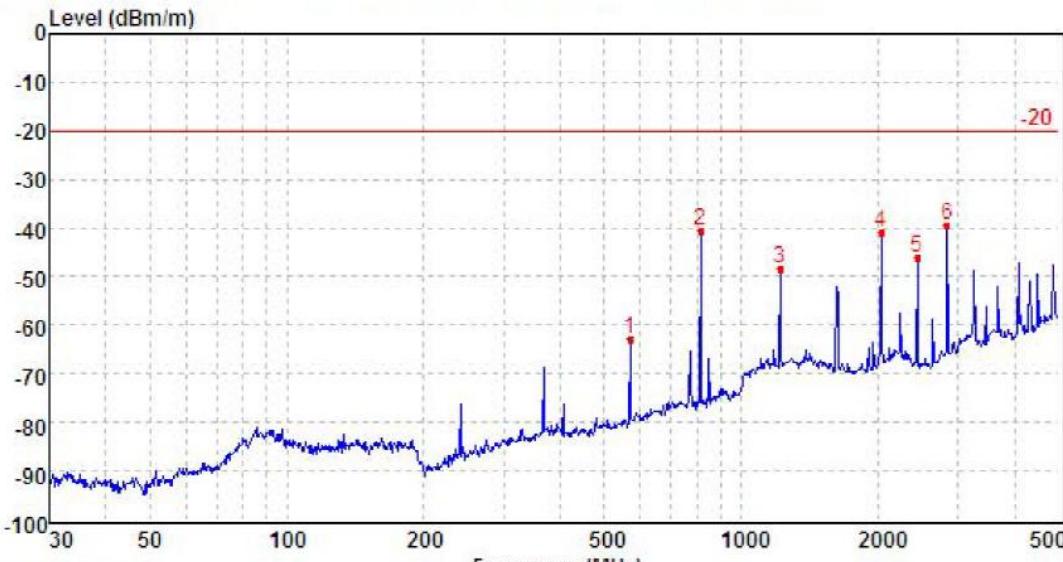
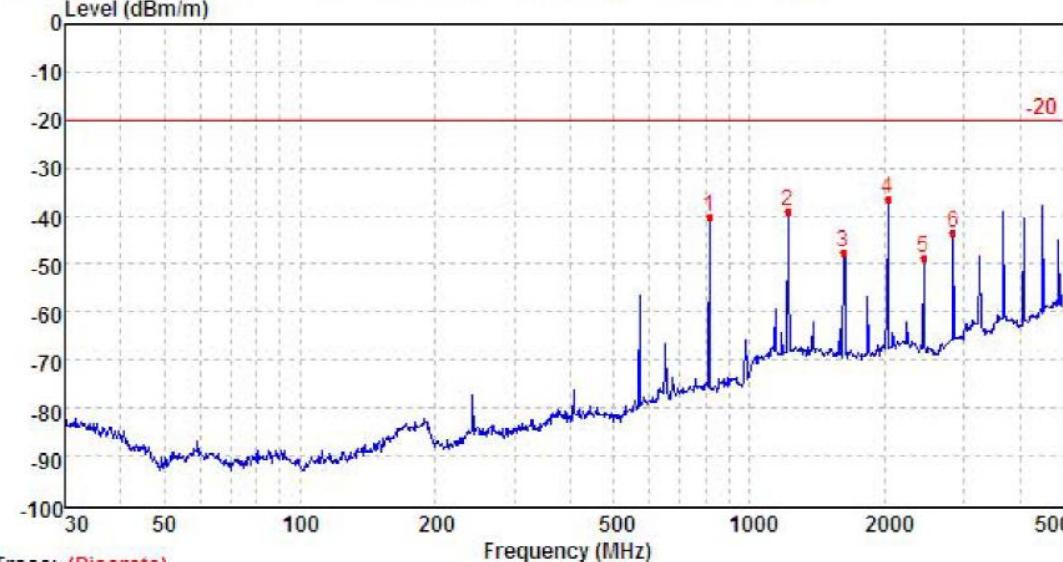
Not Applicable

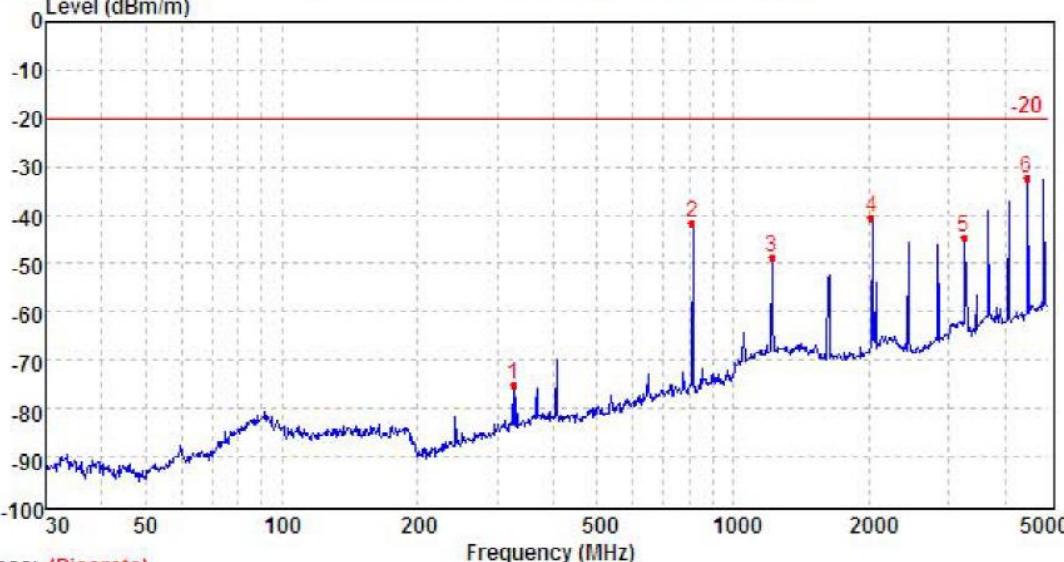
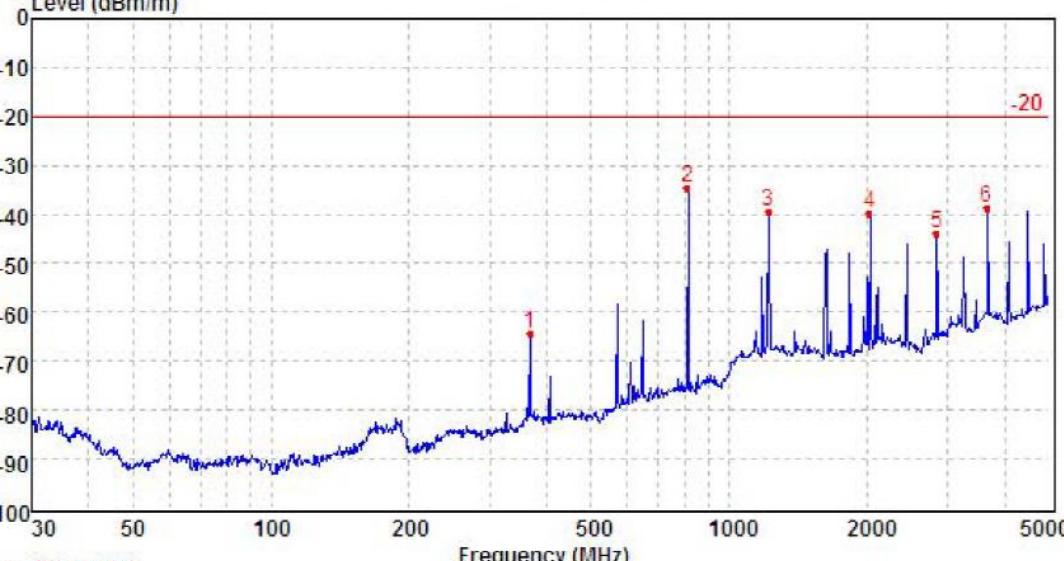
| TEST MODE | TX-DNH for VHF Band | Test Channel: | CH _L | Polarity: | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|----------------|-----------------|-------------|--------------|------------------|------------------|----------------|---------------|--------------|--------------|--------------|---------------|---------------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|------|--------|--------|--------|-------|-------|--------|--------|--------|--------|------|--------|--------|--------|-------|-------|--------|--------|--------|-------|------|--------|--------|--------|-------|-------|--------|--------|--------|--------|------|--------|---------|--------|-------|-------|--------|--------|--------|--------|------|--------|---------|--------|-------|-------|--------|--------|--------|--------|------|
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trace: (Discrete) <table border="1"> <thead> <tr> <th>Mark</th> <th>Frequency MHZ</th> <th>Reading dBm</th> <th>Antenna dB</th> <th>Cable dB</th> <th>Preamp dB</th> <th>Level dBm</th> <th>Limit dBm</th> <th>Over limit</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>271.86</td> <td>-48.88</td> <td>23.67</td> <td>1.91</td> <td>29.16</td> <td>-52.46</td> <td>-20.00</td> <td>-32.46</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>408.82</td> <td>-34.17</td> <td>26.77</td> <td>2.37</td> <td>28.98</td> <td>-34.01</td> <td>-20.00</td> <td>-14.01</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>544.23</td> <td>-28.35</td> <td>28.26</td> <td>2.74</td> <td>29.25</td> <td>-26.60</td> <td>-20.00</td> <td>-6.60</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>683.48</td> <td>-45.50</td> <td>30.44</td> <td>3.14</td> <td>28.62</td> <td>-40.54</td> <td>-20.00</td> <td>-20.54</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>818.40</td> <td>-47.64</td> <td>31.52</td> <td>3.54</td> <td>29.01</td> <td>-41.59</td> <td>-20.00</td> <td>-21.59</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>954.32</td> <td>-58.21</td> <td>31.93</td> <td>3.80</td> <td>28.46</td> <td>-50.94</td> <td>-20.00</td> <td>-30.94</td> <td>Peak</td> </tr> </tbody> </table> | | | | | Mark | Frequency MHZ | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | 1 | 271.86 | -48.88 | 23.67 | 1.91 | 29.16 | -52.46 | -20.00 | -32.46 | Peak | 2 | 408.82 | -34.17 | 26.77 | 2.37 | 28.98 | -34.01 | -20.00 | -14.01 | Peak | 3 | 544.23 | -28.35 | 28.26 | 2.74 | 29.25 | -26.60 | -20.00 | -6.60 | Peak | 4 | 683.48 | -45.50 | 30.44 | 3.14 | 28.62 | -40.54 | -20.00 | -20.54 | Peak | 5 | 818.40 | -47.64 | 31.52 | 3.54 | 29.01 | -41.59 | -20.00 | -21.59 | Peak | 6 | 954.32 | -58.21 | 31.93 | 3.80 | 28.46 | -50.94 | -20.00 | -30.94 | Peak | |
| Mark | Frequency MHZ | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 271.86 | -48.88 | 23.67 | 1.91 | 29.16 | -52.46 | -20.00 | -32.46 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 408.82 | -34.17 | 26.77 | 2.37 | 28.98 | -34.01 | -20.00 | -14.01 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 544.23 | -28.35 | 28.26 | 2.74 | 29.25 | -26.60 | -20.00 | -6.60 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 683.48 | -45.50 | 30.44 | 3.14 | 28.62 | -40.54 | -20.00 | -20.54 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 818.40 | -47.64 | 31.52 | 3.54 | 29.01 | -41.59 | -20.00 | -21.59 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 954.32 | -58.21 | 31.93 | 3.80 | 28.46 | -50.94 | -20.00 | -30.94 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST MODE | TX-DNH for VHF Band | Test Channel: | CH _L | Polarity: | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trace: (Discrete) <table border="1"> <thead> <tr> <th>Mark</th> <th>Frequency MHZ</th> <th>Reading dBm</th> <th>Antenna dB</th> <th>Cable dB</th> <th>Preamp dB</th> <th>Level dBm</th> <th>Limit dBm</th> <th>Over limit</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>271.86</td> <td>-48.71</td> <td>24.35</td> <td>1.91</td> <td>29.16</td> <td>-51.61</td> <td>-20.00</td> <td>-31.61</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>544.23</td> <td>-32.50</td> <td>28.18</td> <td>2.74</td> <td>29.25</td> <td>-30.83</td> <td>-20.00</td> <td>-10.83</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>683.48</td> <td>-33.59</td> <td>29.86</td> <td>3.14</td> <td>28.62</td> <td>-29.21</td> <td>-20.00</td> <td>-9.21</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>818.40</td> <td>-42.55</td> <td>31.68</td> <td>3.54</td> <td>29.01</td> <td>-36.34</td> <td>-20.00</td> <td>-16.34</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>1089.48</td> <td>-59.25</td> <td>34.89</td> <td>4.06</td> <td>28.92</td> <td>-49.22</td> <td>-20.00</td> <td>-29.22</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>1910.42</td> <td>-65.85</td> <td>38.07</td> <td>5.83</td> <td>28.57</td> <td>-50.52</td> <td>-20.00</td> <td>-30.52</td> <td>Peak</td> </tr> </tbody> </table> | | | | | | Mark | Frequency MHZ | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | 1 | 271.86 | -48.71 | 24.35 | 1.91 | 29.16 | -51.61 | -20.00 | -31.61 | Peak | 2 | 544.23 | -32.50 | 28.18 | 2.74 | 29.25 | -30.83 | -20.00 | -10.83 | Peak | 3 | 683.48 | -33.59 | 29.86 | 3.14 | 28.62 | -29.21 | -20.00 | -9.21 | Peak | 4 | 818.40 | -42.55 | 31.68 | 3.54 | 29.01 | -36.34 | -20.00 | -16.34 | Peak | 5 | 1089.48 | -59.25 | 34.89 | 4.06 | 28.92 | -49.22 | -20.00 | -29.22 | Peak | 6 | 1910.42 | -65.85 | 38.07 | 5.83 | 28.57 | -50.52 | -20.00 | -30.52 | Peak |
| Mark | Frequency MHZ | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 271.86 | -48.71 | 24.35 | 1.91 | 29.16 | -51.61 | -20.00 | -31.61 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 544.23 | -32.50 | 28.18 | 2.74 | 29.25 | -30.83 | -20.00 | -10.83 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 683.48 | -33.59 | 29.86 | 3.14 | 28.62 | -29.21 | -20.00 | -9.21 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 818.40 | -42.55 | 31.68 | 3.54 | 29.01 | -36.34 | -20.00 | -16.34 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1089.48 | -59.25 | 34.89 | 4.06 | 28.92 | -49.22 | -20.00 | -29.22 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 1910.42 | -65.85 | 38.07 | 5.83 | 28.57 | -50.52 | -20.00 | -30.52 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

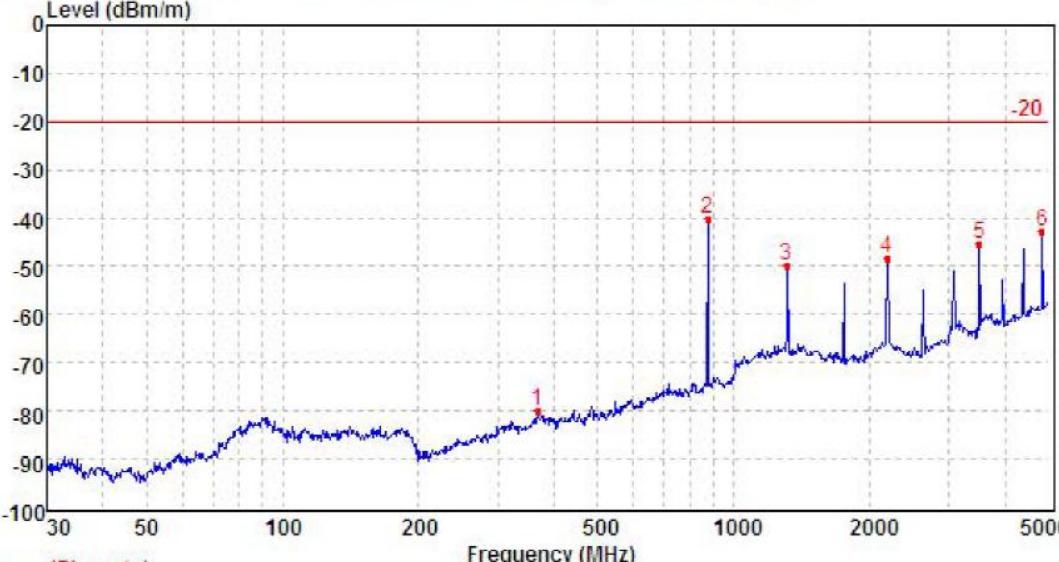
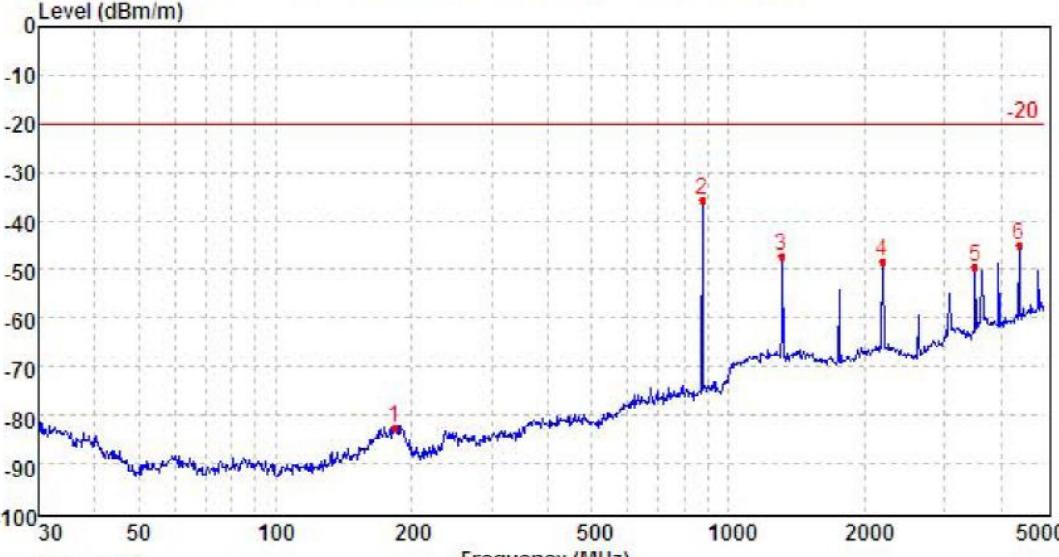
| TEST MODE | TX-DNH for VHF Band | Test Channel: | CH _{M2} | Polarity: | Horizontal | | | | |
|--|---------------------|----------------|------------------|-------------|--------------|--------------|--------------|---------------|--------|
|  | | | | | | | | | |
| Trace: (Discrete) | | | | | | | | | |
| Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark |
| 1 | 310.37 | -47.94 | 24.94 | 2.02 | 29.13 | -50.11 | -20.00 | -30.11 | Peak |
| 2 | 466.72 | -34.53 | 27.27 | 2.53 | 29.03 | -33.76 | -20.00 | -13.76 | Peak |
| 3 | 621.31 | -32.27 | 29.49 | 2.99 | 28.96 | -28.75 | -20.00 | -8.75 | Peak |
| 4 | 776.16 | -58.26 | 31.08 | 3.40 | 28.85 | -52.63 | -20.00 | -32.63 | Peak |
| 5 | 934.31 | -60.33 | 31.68 | 3.78 | 28.21 | -53.08 | -20.00 | -33.08 | Peak |
| 6 | 1709.26 | -70.62 | 36.26 | 5.29 | 28.15 | -57.22 | -20.00 | -37.22 | Peak |
| TEST MODE | TX-DNH for VHF Band | Test Channel: | CH _{M2} | Polarity: | Vertical | | | | |
|  | | | | | | | | | |
| Trace: (Discrete) | | | | | | | | | |
| Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark |
| 1 | 310.37 | -48.87 | 24.39 | 2.02 | 29.13 | -51.59 | -20.00 | -31.59 | Peak |
| 2 | 466.72 | -38.89 | 27.67 | 2.53 | 29.03 | -37.72 | -20.00 | -17.72 | Peak |
| 3 | 621.31 | -32.16 | 29.97 | 2.99 | 28.96 | -28.16 | -20.00 | -8.16 | Peak |
| 4 | 934.31 | -58.18 | 31.76 | 3.78 | 28.21 | -50.85 | -20.00 | -30.85 | Peak |
| 5 | 1083.72 | -66.75 | 34.79 | 4.05 | 28.88 | -56.79 | -20.00 | -36.79 | Peak |
| 6 | 1860.47 | -71.62 | 37.47 | 5.71 | 28.44 | -56.88 | -20.00 | -36.88 | Peak |

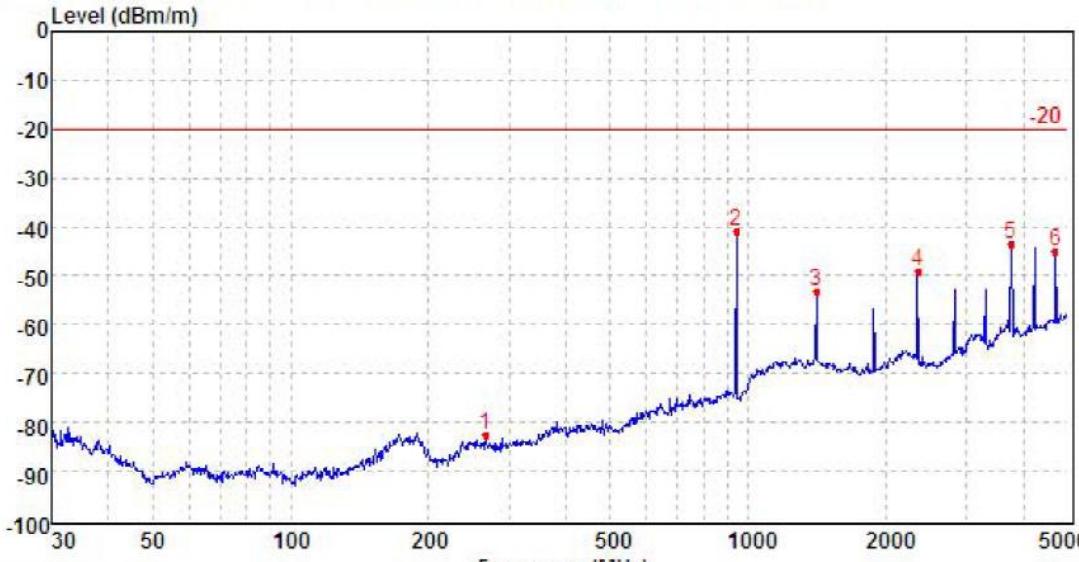
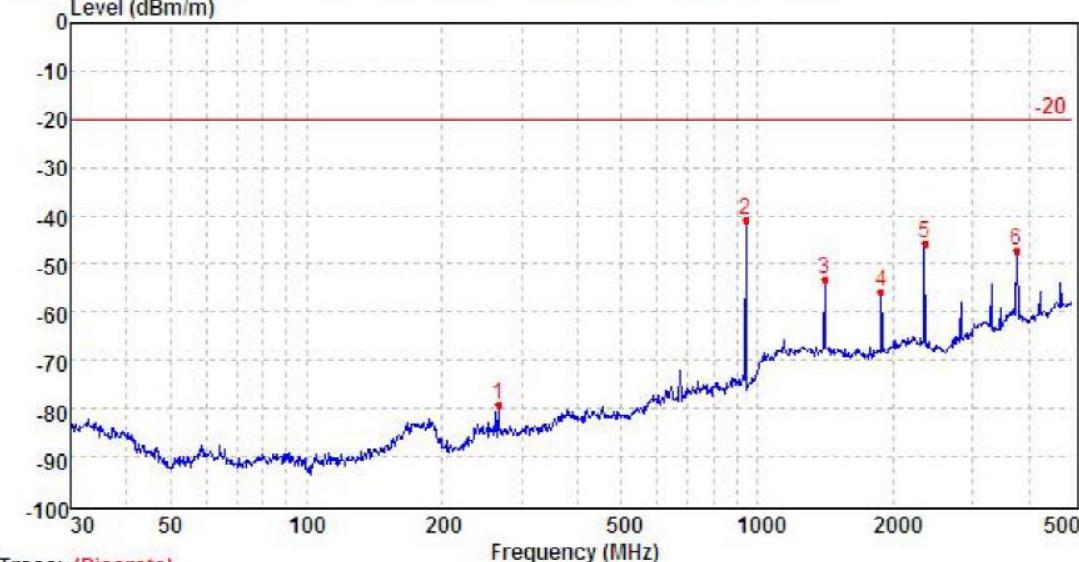
| TEST MODE | TX-DNH for VHF Band | Test Channel: | CH _H | Polarity: | Horizontal | | | | |
|--|---------------------|----------------|-----------------|-------------|--------------------|--------------|--------------|---------------|--------|
|  | | | | | | | | | |
| Trace: (Discrete) | | | | | | | | | |
| Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamplifier dB | Level dBm | Limit dBm | Over limit | Remark |
| 1 | 348.74 | -74.71 | 26.00 | -500.00 | -500.00 | -48.71 | -20.00 | -28.71 | Peak |
| 2 | 524.42 | -50.01 | 27.81 | -500.00 | -500.00 | -22.20 | -20.00 | -2.20 | Peak |
| 3 | 698.12 | -63.50 | 30.51 | -500.00 | -500.00 | -32.99 | -20.00 | -12.99 | Peak |
| 4 | 872.12 | -79.64 | 31.72 | -500.00 | -500.00 | -47.92 | -20.00 | -27.92 | Peak |
| 5 | 1217.70 | -64.93 | 36.93 | 4.69 | 37.21 | -60.52 | -20.00 | -40.52 | Peak |
| 6 | 1745.87 | -64.96 | 36.35 | 5.85 | 37.35 | -60.11 | -20.00 | -40.11 | Peak |
| TEST MODE | TX-DNH for VHF Band | Test Channel: | CH _H | Polarity: | Vertical | | | | |
|  | | | | | | | | | |
| Trace: (Discrete) | | | | | | | | | |
| Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamplifier dB | Level dBm | Limit dBm | Over limit | Remark |
| 1 | 348.74 | -71.50 | 25.47 | -500.00 | -500.00 | -46.03 | -20.00 | -26.03 | Peak |
| 2 | 524.42 | -54.70 | 27.30 | -500.00 | -500.00 | -27.40 | -20.00 | -7.40 | Peak |
| 3 | 698.12 | -58.73 | 30.21 | -500.00 | -500.00 | -28.52 | -20.00 | -8.52 | Peak |
| 4 | 872.12 | -81.23 | 31.55 | -500.00 | -500.00 | -49.68 | -20.00 | -29.68 | Peak |
| 5 | 1044.27 | -58.88 | 34.08 | 4.31 | 37.32 | -57.81 | -20.00 | -37.81 | Peak |
| 6 | 1745.87 | -62.81 | 36.52 | 5.85 | 37.35 | -57.79 | -20.00 | -37.79 | Peak |

| TEST MODE | TX-DNH for UHF Band | Test Channel: | CH _L | Polarity: | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------|----------------|-----------------|-------------|--------------------|--------------|------------------|----------------|---------------|-------------|--------------------|--------------|--------------|---------------|--------|---|--------|--------|-------|------|-------|--------|--------|--------|------|---|---------|--------|-------|------|-------|--------|--------|--------|------|---|---------|--------|-------|------|-------|--------|--------|--------|------|---|---------|--------|-------|------|-------|--------|--------|--------|------|---|---------|--------|-------|------|-------|--------|--------|--------|------|---|---------|--------|-------|------|-------|--------|--------|--------|------|
|  <p>Level (dBm/m)</p> <p>Frequency (MHz)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Trace: (Discrete)</p> <table border="1"> <thead> <tr> <th>Mark</th><th>Frequency MHz</th><th>Reading dBm</th><th>Antenna dB</th><th>Cable dB</th><th>Preamplifier dB</th><th>Level dBm</th><th>Limit dBm</th><th>Over limit</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>1</td><td>564.80</td><td>-54.12</td><td>28.63</td><td>2.79</td><td>29.22</td><td>-51.92</td><td>-20.00</td><td>-31.92</td><td>Peak</td></tr> <tr> <td>2</td><td>801.23</td><td>-42.71</td><td>31.06</td><td>3.50</td><td>29.00</td><td>-37.15</td><td>-20.00</td><td>-17.15</td><td>Peak</td></tr> <tr> <td>3</td><td>1198.50</td><td>-59.66</td><td>36.81</td><td>4.31</td><td>28.96</td><td>-47.50</td><td>-20.00</td><td>-27.50</td><td>Peak</td></tr> <tr> <td>4</td><td>2003.73</td><td>-56.37</td><td>38.38</td><td>5.86</td><td>28.17</td><td>-40.30</td><td>-20.00</td><td>-20.30</td><td>Peak</td></tr> <tr> <td>5</td><td>2411.98</td><td>-61.97</td><td>39.31</td><td>6.64</td><td>27.89</td><td>-43.91</td><td>-20.00</td><td>-23.91</td><td>Peak</td></tr> <tr> <td>6</td><td>2812.57</td><td>-66.73</td><td>40.70</td><td>8.23</td><td>27.70</td><td>-45.50</td><td>-20.00</td><td>-25.50</td><td>Peak</td></tr> </tbody> </table> | | | | | | Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamplifier dB | Level dBm | Limit dBm | Over limit | Remark | 1 | 564.80 | -54.12 | 28.63 | 2.79 | 29.22 | -51.92 | -20.00 | -31.92 | Peak | 2 | 801.23 | -42.71 | 31.06 | 3.50 | 29.00 | -37.15 | -20.00 | -17.15 | Peak | 3 | 1198.50 | -59.66 | 36.81 | 4.31 | 28.96 | -47.50 | -20.00 | -27.50 | Peak | 4 | 2003.73 | -56.37 | 38.38 | 5.86 | 28.17 | -40.30 | -20.00 | -20.30 | Peak | 5 | 2411.98 | -61.97 | 39.31 | 6.64 | 27.89 | -43.91 | -20.00 | -23.91 | Peak | 6 | 2812.57 | -66.73 | 40.70 | 8.23 | 27.70 | -45.50 | -20.00 | -25.50 | Peak |
| Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamplifier dB | Level dBm | Limit dBm | Over limit | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 564.80 | -54.12 | 28.63 | 2.79 | 29.22 | -51.92 | -20.00 | -31.92 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 801.23 | -42.71 | 31.06 | 3.50 | 29.00 | -37.15 | -20.00 | -17.15 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1198.50 | -59.66 | 36.81 | 4.31 | 28.96 | -47.50 | -20.00 | -27.50 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2003.73 | -56.37 | 38.38 | 5.86 | 28.17 | -40.30 | -20.00 | -20.30 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2411.98 | -61.97 | 39.31 | 6.64 | 27.89 | -43.91 | -20.00 | -23.91 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2812.57 | -66.73 | 40.70 | 8.23 | 27.70 | -45.50 | -20.00 | -25.50 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST MODE | TX-DNH for UHF Band | Test Channel: | CH _L | Polarity: | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>Level (dBm/m)</p> <p>Frequency (MHz)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Trace: (Discrete)</p> <table border="1"> <thead> <tr> <th>Mark</th><th>Frequency MHz</th><th>Reading dBm</th><th>Antenna dB</th><th>Cable dB</th><th>Preamplifier dB</th><th>Level dBm</th><th>Limit dBm</th><th>Over limit</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>1</td><td>801.23</td><td>-43.39</td><td>31.52</td><td>3.50</td><td>29.00</td><td>-37.37</td><td>-20.00</td><td>-17.37</td><td>Peak</td></tr> <tr> <td>2</td><td>1198.50</td><td>-53.14</td><td>36.71</td><td>4.31</td><td>28.96</td><td>-41.08</td><td>-20.00</td><td>-21.08</td><td>Peak</td></tr> <tr> <td>3</td><td>1603.97</td><td>-56.01</td><td>35.98</td><td>5.14</td><td>28.74</td><td>-43.63</td><td>-20.00</td><td>-23.63</td><td>Peak</td></tr> <tr> <td>4</td><td>2003.73</td><td>-52.13</td><td>39.15</td><td>5.86</td><td>28.17</td><td>-35.29</td><td>-20.00</td><td>-15.29</td><td>Peak</td></tr> <tr> <td>5</td><td>2411.98</td><td>-67.46</td><td>39.75</td><td>6.64</td><td>27.89</td><td>-48.96</td><td>-20.00</td><td>-28.96</td><td>Peak</td></tr> <tr> <td>6</td><td>2812.57</td><td>-65.31</td><td>40.75</td><td>8.23</td><td>27.70</td><td>-44.03</td><td>-20.00</td><td>-24.03</td><td>Peak</td></tr> </tbody> </table> | | | | | | Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamplifier dB | Level dBm | Limit dBm | Over limit | Remark | 1 | 801.23 | -43.39 | 31.52 | 3.50 | 29.00 | -37.37 | -20.00 | -17.37 | Peak | 2 | 1198.50 | -53.14 | 36.71 | 4.31 | 28.96 | -41.08 | -20.00 | -21.08 | Peak | 3 | 1603.97 | -56.01 | 35.98 | 5.14 | 28.74 | -43.63 | -20.00 | -23.63 | Peak | 4 | 2003.73 | -52.13 | 39.15 | 5.86 | 28.17 | -35.29 | -20.00 | -15.29 | Peak | 5 | 2411.98 | -67.46 | 39.75 | 6.64 | 27.89 | -48.96 | -20.00 | -28.96 | Peak | 6 | 2812.57 | -65.31 | 40.75 | 8.23 | 27.70 | -44.03 | -20.00 | -24.03 | Peak |
| Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamplifier dB | Level dBm | Limit dBm | Over limit | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 801.23 | -43.39 | 31.52 | 3.50 | 29.00 | -37.37 | -20.00 | -17.37 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1198.50 | -53.14 | 36.71 | 4.31 | 28.96 | -41.08 | -20.00 | -21.08 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1603.97 | -56.01 | 35.98 | 5.14 | 28.74 | -43.63 | -20.00 | -23.63 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2003.73 | -52.13 | 39.15 | 5.86 | 28.17 | -35.29 | -20.00 | -15.29 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2411.98 | -67.46 | 39.75 | 6.64 | 27.89 | -48.96 | -20.00 | -28.96 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2812.57 | -65.31 | 40.75 | 8.23 | 27.70 | -44.03 | -20.00 | -24.03 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| TEST MODE | TX-DNH for UHF Band | Test Channel: | CH _{M1} | Polarity: | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------|----------------|------------------|-------------|--------------|------------------|------------------|----------------|---------------|--------------|--------------|--------------|---------------|---------------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|------|--------|---------|--------|-------|-------|--------|--------|--------|--------|------|---------|---------|--------|-------|-------|--------|--------|--------|--------|------|---------|---------|--------|-------|-------|--------|--------|--------|--------|------|---------|---------|--------|-------|-------|--------|--------|--------|--------|------|---------|---------|--------|-------|-------|--------|--------|--------|--------|------|
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Trace: (Discrete)</p> <table border="1"> <thead> <tr> <th>Mark</th> <th>Frequency MHZ</th> <th>Reading dBm</th> <th>Antenna dB</th> <th>Cable dB</th> <th>Preamp dB</th> <th>Level dBm</th> <th>Limit dBm</th> <th>Over limit</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>570.81</td> <td>-65.26</td> <td>28.82</td> <td>2.81</td> <td>29.20</td> <td>-62.83</td> <td>-20.00</td> <td>-42.83</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>814.07</td> <td>-46.54</td> <td>31.40</td> <td>3.53</td> <td>29.01</td> <td>-40.62</td> <td>-20.00</td> <td>-20.62</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>1217.70</td> <td>-60.58</td> <td>36.93</td> <td>4.35</td> <td>28.86</td> <td>-48.16</td> <td>-20.00</td> <td>-28.16</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>2035.83</td> <td>-57.70</td> <td>38.95</td> <td>5.91</td> <td>28.06</td> <td>-40.90</td> <td>-20.00</td> <td>-20.90</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>2437.68</td> <td>-64.30</td> <td>39.29</td> <td>6.66</td> <td>27.87</td> <td>-46.22</td> <td>-20.00</td> <td>-26.22</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>2842.54</td> <td>-61.61</td> <td>40.75</td> <td>8.96</td> <td>27.69</td> <td>-39.59</td> <td>-20.00</td> <td>-19.59</td> <td>Peak</td> </tr> </tbody> </table> | | | | | Mark | Frequency MHZ | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | 1 | 570.81 | -65.26 | 28.82 | 2.81 | 29.20 | -62.83 | -20.00 | -42.83 | Peak | 2 | 814.07 | -46.54 | 31.40 | 3.53 | 29.01 | -40.62 | -20.00 | -20.62 | Peak | 3 | 1217.70 | -60.58 | 36.93 | 4.35 | 28.86 | -48.16 | -20.00 | -28.16 | Peak | 4 | 2035.83 | -57.70 | 38.95 | 5.91 | 28.06 | -40.90 | -20.00 | -20.90 | Peak | 5 | 2437.68 | -64.30 | 39.29 | 6.66 | 27.87 | -46.22 | -20.00 | -26.22 | Peak | 6 | 2842.54 | -61.61 | 40.75 | 8.96 | 27.69 | -39.59 | -20.00 | -19.59 | Peak | |
| Mark | Frequency MHZ | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 570.81 | -65.26 | 28.82 | 2.81 | 29.20 | -62.83 | -20.00 | -42.83 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 814.07 | -46.54 | 31.40 | 3.53 | 29.01 | -40.62 | -20.00 | -20.62 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1217.70 | -60.58 | 36.93 | 4.35 | 28.86 | -48.16 | -20.00 | -28.16 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2035.83 | -57.70 | 38.95 | 5.91 | 28.06 | -40.90 | -20.00 | -20.90 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2437.68 | -64.30 | 39.29 | 6.66 | 27.87 | -46.22 | -20.00 | -26.22 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2842.54 | -61.61 | 40.75 | 8.96 | 27.69 | -39.59 | -20.00 | -19.59 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST MODE | TX-DNH for UHF Band | Test Channel: | CH _{M1} | Polarity: | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Trace: (Discrete)</p> <table border="1"> <thead> <tr> <th>Mark</th> <th>Frequency MHZ</th> <th>Reading dBm</th> <th>Antenna dB</th> <th>Cable dB</th> <th>Preamp dB</th> <th>Level dBm</th> <th>Limit dBm</th> <th>Over limit</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>814.07</td> <td>-46.25</td> <td>31.64</td> <td>3.53</td> <td>29.01</td> <td>-40.09</td> <td>-20.00</td> <td>-20.09</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>1217.70</td> <td>-51.34</td> <td>36.77</td> <td>4.35</td> <td>28.86</td> <td>-39.08</td> <td>-20.00</td> <td>-19.08</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>1621.05</td> <td>-59.97</td> <td>36.04</td> <td>5.16</td> <td>28.63</td> <td>-47.40</td> <td>-20.00</td> <td>-27.40</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>2035.83</td> <td>-53.58</td> <td>39.46</td> <td>5.91</td> <td>28.06</td> <td>-36.27</td> <td>-20.00</td> <td>-16.27</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>2437.68</td> <td>-67.21</td> <td>39.61</td> <td>6.66</td> <td>27.87</td> <td>-48.81</td> <td>-20.00</td> <td>-28.81</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>2842.54</td> <td>-65.69</td> <td>40.80</td> <td>8.96</td> <td>27.69</td> <td>-43.62</td> <td>-20.00</td> <td>-23.62</td> <td>Peak</td> </tr> </tbody> </table> | | | | | | Mark | Frequency MHZ | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | 1 | 814.07 | -46.25 | 31.64 | 3.53 | 29.01 | -40.09 | -20.00 | -20.09 | Peak | 2 | 1217.70 | -51.34 | 36.77 | 4.35 | 28.86 | -39.08 | -20.00 | -19.08 | Peak | 3 | 1621.05 | -59.97 | 36.04 | 5.16 | 28.63 | -47.40 | -20.00 | -27.40 | Peak | 4 | 2035.83 | -53.58 | 39.46 | 5.91 | 28.06 | -36.27 | -20.00 | -16.27 | Peak | 5 | 2437.68 | -67.21 | 39.61 | 6.66 | 27.87 | -48.81 | -20.00 | -28.81 | Peak | 6 | 2842.54 | -65.69 | 40.80 | 8.96 | 27.69 | -43.62 | -20.00 | -23.62 | Peak |
| Mark | Frequency MHZ | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 814.07 | -46.25 | 31.64 | 3.53 | 29.01 | -40.09 | -20.00 | -20.09 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1217.70 | -51.34 | 36.77 | 4.35 | 28.86 | -39.08 | -20.00 | -19.08 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1621.05 | -59.97 | 36.04 | 5.16 | 28.63 | -47.40 | -20.00 | -27.40 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2035.83 | -53.58 | 39.46 | 5.91 | 28.06 | -36.27 | -20.00 | -16.27 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2437.68 | -67.21 | 39.61 | 6.66 | 27.87 | -48.81 | -20.00 | -28.81 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2842.54 | -65.69 | 40.80 | 8.96 | 27.69 | -43.62 | -20.00 | -23.62 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| TEST MODE | TX-DNH for UHF Band | Test Channel: | CH _{M2} | Polarity: | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|----------------|------------------|-------------|--------------|--------------|------------------|----------------|---------------|-------------|--------------|--------------|--------------|---------------|--------|---|--------|--------|-------|------|-------|--------|--------|--------|------|---|--------|--------|-------|------|-------|--------|--------|--------|------|---|---------|--------|-------|------|-------|--------|--------|--------|------|---|---------|--------|-------|------|-------|--------|--------|--------|------|---|---------|--------|-------|------|-------|--------|--------|--------|------|---|---------|--------|-------|------|-------|--------|--------|--------|------|
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trace: (Discrete) <table border="1"> <thead> <tr> <th>Mark</th><th>Frequency MHz</th><th>Reading dBm</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBm</th><th>Limit dBm</th><th>Over limit</th><th>Remark</th></tr> </thead> <tbody> <tr><td>1</td><td>325.51</td><td>-73.12</td><td>25.18</td><td>2.07</td><td>29.09</td><td>-74.96</td><td>-20.00</td><td>-54.96</td><td>Peak</td></tr> <tr><td>2</td><td>812.15</td><td>-47.43</td><td>31.35</td><td>3.52</td><td>29.01</td><td>-41.57</td><td>-20.00</td><td>-21.57</td><td>Peak</td></tr> <tr><td>3</td><td>1217.86</td><td>-53.23</td><td>36.93</td><td>4.69</td><td>37.21</td><td>-48.82</td><td>-20.00</td><td>-28.82</td><td>Peak</td></tr> <tr><td>4</td><td>2029.41</td><td>-48.10</td><td>38.83</td><td>6.29</td><td>37.60</td><td>-40.58</td><td>-20.00</td><td>-20.58</td><td>Peak</td></tr> <tr><td>5</td><td>3251.05</td><td>-55.94</td><td>40.98</td><td>7.78</td><td>37.35</td><td>-44.53</td><td>-20.00</td><td>-24.53</td><td>Peak</td></tr> <tr><td>6</td><td>4472.34</td><td>-48.32</td><td>43.19</td><td>9.25</td><td>36.31</td><td>-32.19</td><td>-20.00</td><td>-12.19</td><td>Peak</td></tr> </tbody> </table> | | | | | | Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | 1 | 325.51 | -73.12 | 25.18 | 2.07 | 29.09 | -74.96 | -20.00 | -54.96 | Peak | 2 | 812.15 | -47.43 | 31.35 | 3.52 | 29.01 | -41.57 | -20.00 | -21.57 | Peak | 3 | 1217.86 | -53.23 | 36.93 | 4.69 | 37.21 | -48.82 | -20.00 | -28.82 | Peak | 4 | 2029.41 | -48.10 | 38.83 | 6.29 | 37.60 | -40.58 | -20.00 | -20.58 | Peak | 5 | 3251.05 | -55.94 | 40.98 | 7.78 | 37.35 | -44.53 | -20.00 | -24.53 | Peak | 6 | 4472.34 | -48.32 | 43.19 | 9.25 | 36.31 | -32.19 | -20.00 | -12.19 | Peak |
| Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 325.51 | -73.12 | 25.18 | 2.07 | 29.09 | -74.96 | -20.00 | -54.96 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 812.15 | -47.43 | 31.35 | 3.52 | 29.01 | -41.57 | -20.00 | -21.57 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1217.86 | -53.23 | 36.93 | 4.69 | 37.21 | -48.82 | -20.00 | -28.82 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2029.41 | -48.10 | 38.83 | 6.29 | 37.60 | -40.58 | -20.00 | -20.58 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 3251.05 | -55.94 | 40.98 | 7.78 | 37.35 | -44.53 | -20.00 | -24.53 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4472.34 | -48.32 | 43.19 | 9.25 | 36.31 | -32.19 | -20.00 | -12.19 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST MODE | TX-DNH for UHF Band | Test Channel: | CH _{M2} | Polarity: | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trace: (Discrete) <table border="1"> <thead> <tr> <th>Mark</th><th>Frequency MHz</th><th>Reading dBm</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBm</th><th>Limit dBm</th><th>Over limit</th><th>Remark</th></tr> </thead> <tbody> <tr><td>1</td><td>368.14</td><td>-63.84</td><td>26.46</td><td>2.22</td><td>29.01</td><td>-64.17</td><td>-20.00</td><td>-44.17</td><td>Peak</td></tr> <tr><td>2</td><td>812.15</td><td>-40.73</td><td>31.62</td><td>3.52</td><td>29.01</td><td>-34.60</td><td>-20.00</td><td>-14.60</td><td>Peak</td></tr> <tr><td>3</td><td>1217.86</td><td>-43.79</td><td>36.77</td><td>4.69</td><td>37.21</td><td>-39.54</td><td>-20.00</td><td>-19.54</td><td>Peak</td></tr> <tr><td>4</td><td>2029.41</td><td>-47.82</td><td>39.39</td><td>6.29</td><td>37.60</td><td>-39.74</td><td>-20.00</td><td>-19.74</td><td>Peak</td></tr> <tr><td>5</td><td>2842.25</td><td>-54.51</td><td>40.80</td><td>7.39</td><td>37.58</td><td>-43.90</td><td>-20.00</td><td>-23.90</td><td>Peak</td></tr> <tr><td>6</td><td>3659.16</td><td>-52.22</td><td>42.33</td><td>8.34</td><td>37.01</td><td>-38.56</td><td>-20.00</td><td>-18.56</td><td>Peak</td></tr> </tbody> </table> | | | | | | Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | 1 | 368.14 | -63.84 | 26.46 | 2.22 | 29.01 | -64.17 | -20.00 | -44.17 | Peak | 2 | 812.15 | -40.73 | 31.62 | 3.52 | 29.01 | -34.60 | -20.00 | -14.60 | Peak | 3 | 1217.86 | -43.79 | 36.77 | 4.69 | 37.21 | -39.54 | -20.00 | -19.54 | Peak | 4 | 2029.41 | -47.82 | 39.39 | 6.29 | 37.60 | -39.74 | -20.00 | -19.74 | Peak | 5 | 2842.25 | -54.51 | 40.80 | 7.39 | 37.58 | -43.90 | -20.00 | -23.90 | Peak | 6 | 3659.16 | -52.22 | 42.33 | 8.34 | 37.01 | -38.56 | -20.00 | -18.56 | Peak |
| Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 368.14 | -63.84 | 26.46 | 2.22 | 29.01 | -64.17 | -20.00 | -44.17 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 812.15 | -40.73 | 31.62 | 3.52 | 29.01 | -34.60 | -20.00 | -14.60 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1217.86 | -43.79 | 36.77 | 4.69 | 37.21 | -39.54 | -20.00 | -19.54 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2029.41 | -47.82 | 39.39 | 6.29 | 37.60 | -39.74 | -20.00 | -19.74 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2842.25 | -54.51 | 40.80 | 7.39 | 37.58 | -43.90 | -20.00 | -23.90 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 3659.16 | -52.22 | 42.33 | 8.34 | 37.01 | -38.56 | -20.00 | -18.56 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| TEST MODE | TX-DNH for UHF Band | Test Channel: | CH _{M3} | Polarity: | Horizontal | | | | |
|--|---------------------|----------------|------------------|-------------|--------------|--------------|--------------|---------------|--------|
|  | | | | | | | | | |
| Trace: (Discrete) | | | | | | | | | |
| Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark |
| 1 | 368.14 | -79.68 | 26.41 | 2.22 | 29.01 | -80.06 | -20.00 | -60.06 | Peak |
| 2 | 877.47 | -47.49 | 31.75 | 3.68 | 28.23 | -40.29 | -20.00 | -20.29 | Peak |
| 3 | 1313.04 | -55.02 | 37.38 | 4.85 | 37.16 | -49.95 | -20.00 | -29.95 | Peak |
| 4 | 2191.95 | -58.87 | 41.60 | 6.43 | 37.60 | -48.44 | -20.00 | -28.44 | Peak |
| 5 | 3505.14 | -57.64 | 41.20 | 8.12 | 37.14 | -45.46 | -20.00 | -25.46 | Peak |
| 6 | 4821.88 | -60.43 | 43.73 | 9.55 | 35.69 | -42.84 | -20.00 | -22.84 | Peak |
| TEST MODE | TX-DNH for UHF Band | Test Channel: | CH _{M3} | Polarity: | Vertical | | | | |
|  | | | | | | | | | |
| Trace: (Discrete) | | | | | | | | | |
| Mark | Frequency MHz | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark |
| 1 | 183.50 | -80.78 | 25.85 | 1.55 | 29.09 | -82.47 | -20.00 | -62.47 | Peak |
| 2 | 877.47 | -42.86 | 31.62 | 3.68 | 28.23 | -35.79 | -20.00 | -15.79 | Peak |
| 3 | 1313.04 | -51.78 | 36.98 | 4.85 | 37.16 | -47.11 | -20.00 | -27.11 | Peak |
| 4 | 2188.02 | -58.05 | 40.86 | 6.43 | 37.60 | -48.36 | -20.00 | -28.36 | Peak |
| 5 | 3505.14 | -61.63 | 41.08 | 8.12 | 37.14 | -49.57 | -20.00 | -29.57 | Peak |
| 6 | 4385.05 | -60.71 | 42.88 | 9.12 | 36.39 | -45.10 | -20.00 | -25.10 | Peak |

| TEST MODE | TX-DNH for UHF Band | Test Channel: | CH _H | Polarity: | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|----------------|-----------------|-------------|--------------|------------------|------------------|----------------|---------------|--------------|--------------|--------------|---------------|---------------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|------|--------|--------|--------|-------|-------|--------|--------|--------|--------|------|---------|---------|--------|-------|-------|--------|--------|--------|--------|------|---------|---------|--------|-------|-------|--------|--------|--------|--------|------|---------|---------|--------|-------|-------|--------|--------|--------|--------|------|---------|---------|--------|-------|-------|--------|--------|--------|--------|------|
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Trace: (Discrete)</p> <table border="1"> <thead> <tr> <th>Mark</th> <th>Frequency MHZ</th> <th>Reading dBm</th> <th>Antenna dB</th> <th>Cable dB</th> <th>Preamp dB</th> <th>Level dBm</th> <th>Limit dBm</th> <th>Over limit</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>266.39</td> <td>-78.36</td> <td>23.28</td> <td>1.89</td> <td>29.19</td> <td>-82.38</td> <td>-20.00</td> <td>-62.38</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>941.41</td> <td>-47.97</td> <td>31.61</td> <td>3.78</td> <td>28.33</td> <td>-40.91</td> <td>-20.00</td> <td>-20.91</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>1408.08</td> <td>-58.68</td> <td>37.68</td> <td>5.02</td> <td>37.11</td> <td>-53.09</td> <td>-20.00</td> <td>-33.09</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>2350.60</td> <td>-58.17</td> <td>39.90</td> <td>6.69</td> <td>37.59</td> <td>-49.17</td> <td>-20.00</td> <td>-29.17</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>3758.84</td> <td>-57.17</td> <td>42.14</td> <td>8.45</td> <td>36.94</td> <td>-43.52</td> <td>-20.00</td> <td>-23.52</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>4702.43</td> <td>-62.19</td> <td>43.57</td> <td>9.50</td> <td>35.91</td> <td>-45.03</td> <td>-20.00</td> <td>-25.03</td> <td>Peak</td> </tr> </tbody> </table> | | | | | Mark | Frequency MHZ | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | 1 | 266.39 | -78.36 | 23.28 | 1.89 | 29.19 | -82.38 | -20.00 | -62.38 | Peak | 2 | 941.41 | -47.97 | 31.61 | 3.78 | 28.33 | -40.91 | -20.00 | -20.91 | Peak | 3 | 1408.08 | -58.68 | 37.68 | 5.02 | 37.11 | -53.09 | -20.00 | -33.09 | Peak | 4 | 2350.60 | -58.17 | 39.90 | 6.69 | 37.59 | -49.17 | -20.00 | -29.17 | Peak | 5 | 3758.84 | -57.17 | 42.14 | 8.45 | 36.94 | -43.52 | -20.00 | -23.52 | Peak | 6 | 4702.43 | -62.19 | 43.57 | 9.50 | 35.91 | -45.03 | -20.00 | -25.03 | Peak | |
| Mark | Frequency MHZ | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 266.39 | -78.36 | 23.28 | 1.89 | 29.19 | -82.38 | -20.00 | -62.38 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 941.41 | -47.97 | 31.61 | 3.78 | 28.33 | -40.91 | -20.00 | -20.91 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1408.08 | -58.68 | 37.68 | 5.02 | 37.11 | -53.09 | -20.00 | -33.09 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2350.60 | -58.17 | 39.90 | 6.69 | 37.59 | -49.17 | -20.00 | -29.17 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 3758.84 | -57.17 | 42.14 | 8.45 | 36.94 | -43.52 | -20.00 | -23.52 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4702.43 | -62.19 | 43.57 | 9.50 | 35.91 | -45.03 | -20.00 | -25.03 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST MODE | TX-DNH for UHF Band | Test Channel: | CH _H | Polarity: | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Mark | Frequency MHZ | Reading dBm | Antenna dB | Cable dB | Preamp dB | Level dBm | Limit dBm | Over limit | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 266.39 | -76.37 | 24.46 | 1.89 | 29.19 | -79.21 | -20.00 | -59.21 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 941.41 | -48.12 | 31.84 | 3.78 | 28.33 | -40.83 | -20.00 | -20.83 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1410.60 | -58.01 | 37.09 | 5.03 | 37.11 | -53.00 | -20.00 | -33.00 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 1878.92 | -62.12 | 37.69 | 6.08 | 37.48 | -55.83 | -20.00 | -35.83 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2350.60 | -54.83 | 40.09 | 6.69 | 37.59 | -45.64 | -20.00 | -25.64 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 3758.84 | -61.05 | 42.23 | 8.45 | 36.94 | -47.31 | -20.00 | -27.31 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

5.11 AC Power Line Conducted Emission

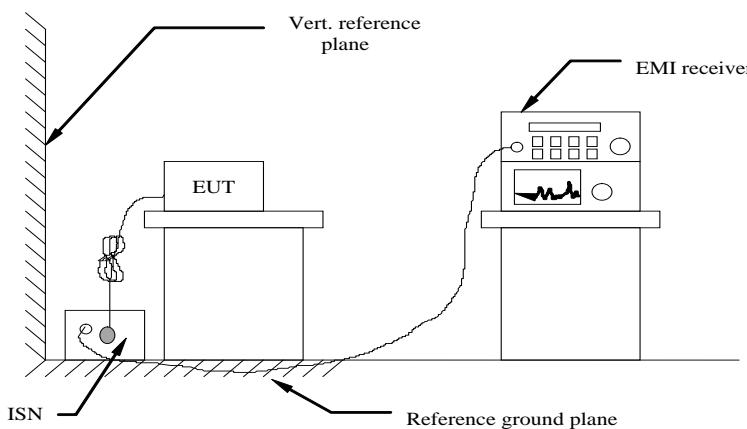
The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 u Henry as specified by section 5.1 of ANSI C63.4. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Limit

FCC part 15.107(a)

| Frequency of emission (MHz) | Conducted limit (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4
- 2 Support equipment, if needed, was placed as per ANSI C63.4
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4 If a EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

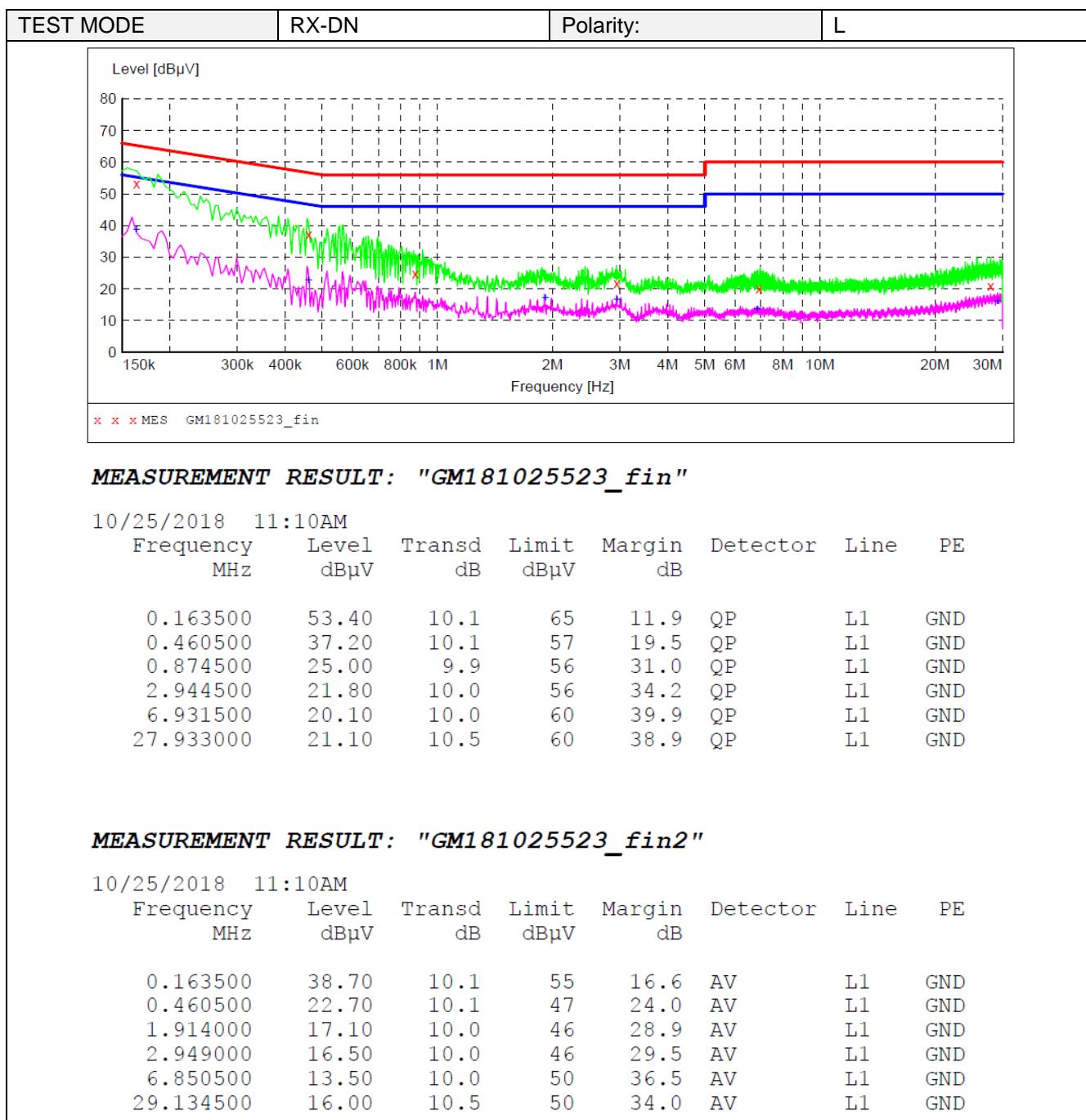
TEST MODE

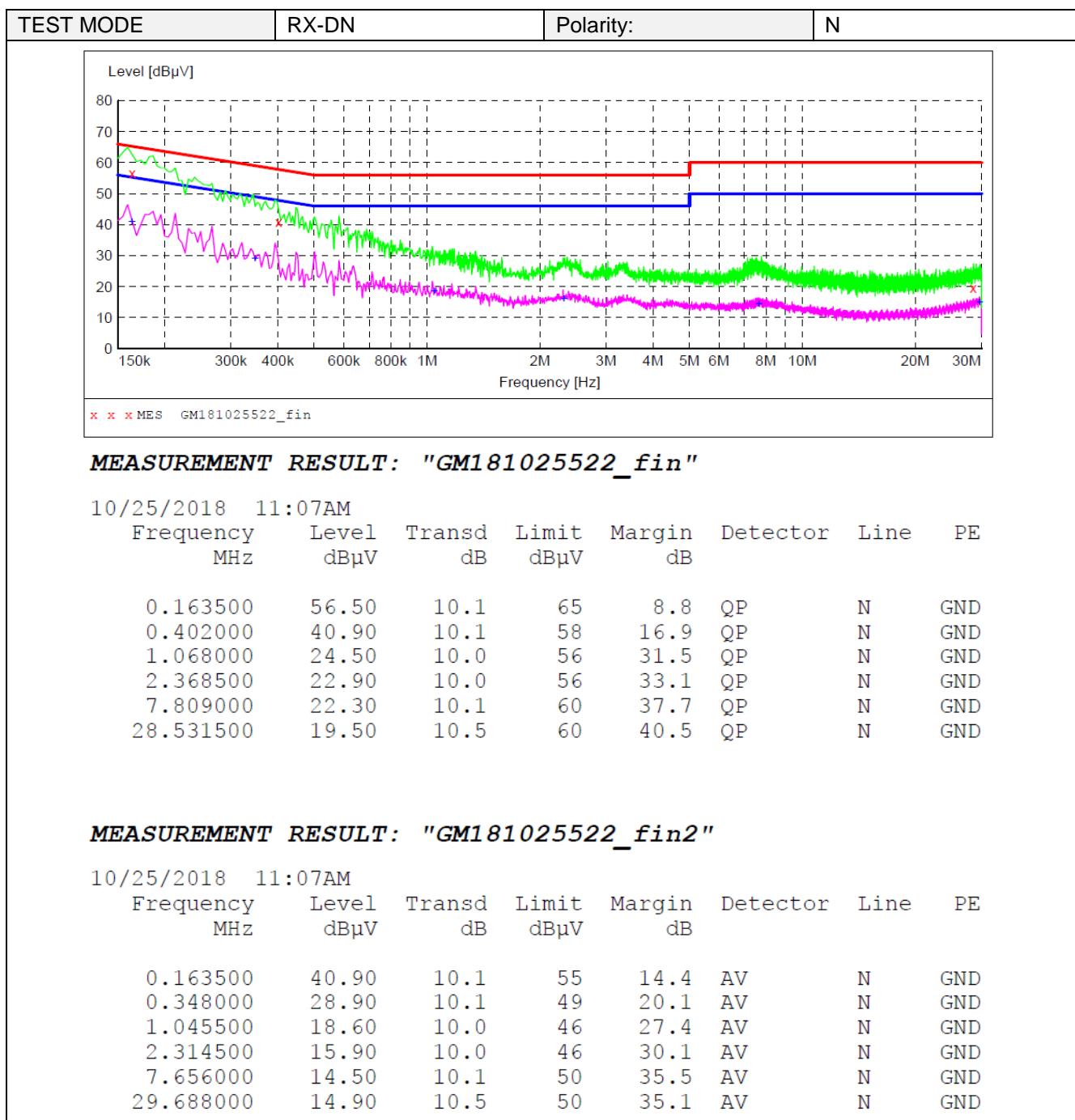
Please reference to the section 3.4

TEST RESULTS

Passed

Not Applicable





5.12 Radiated Emission

LIMIT

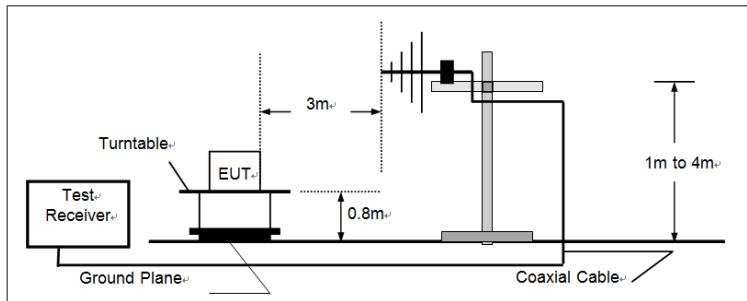
For unintentional device, according to § 15.109(a) except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency of emission (MHz) | Field strength (microvolts/meter) |
|-----------------------------|-----------------------------------|
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above 960 | 500 |

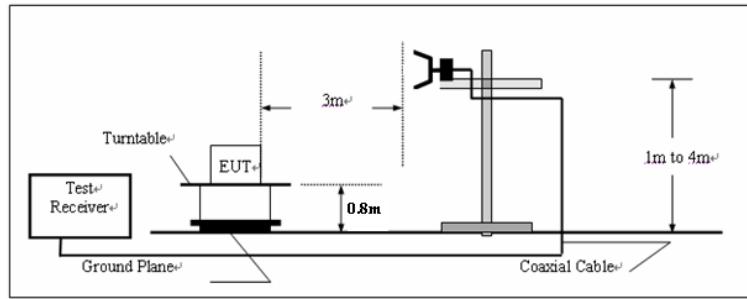
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

TEST CONFIGURATION

(A) Radiated Emission Test Set-Up, Frequency below 1000MHz



(B) Radiated Emission Test Set-Up, Frequency above 1000MHz



TEST PROCEDURE

- 1 The EUT was placed on a turn table which is 0.8m above ground plane.
- 2 Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- 3 And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4 Repeat above procedures until all frequency measurements have been completed.

TEST MODE

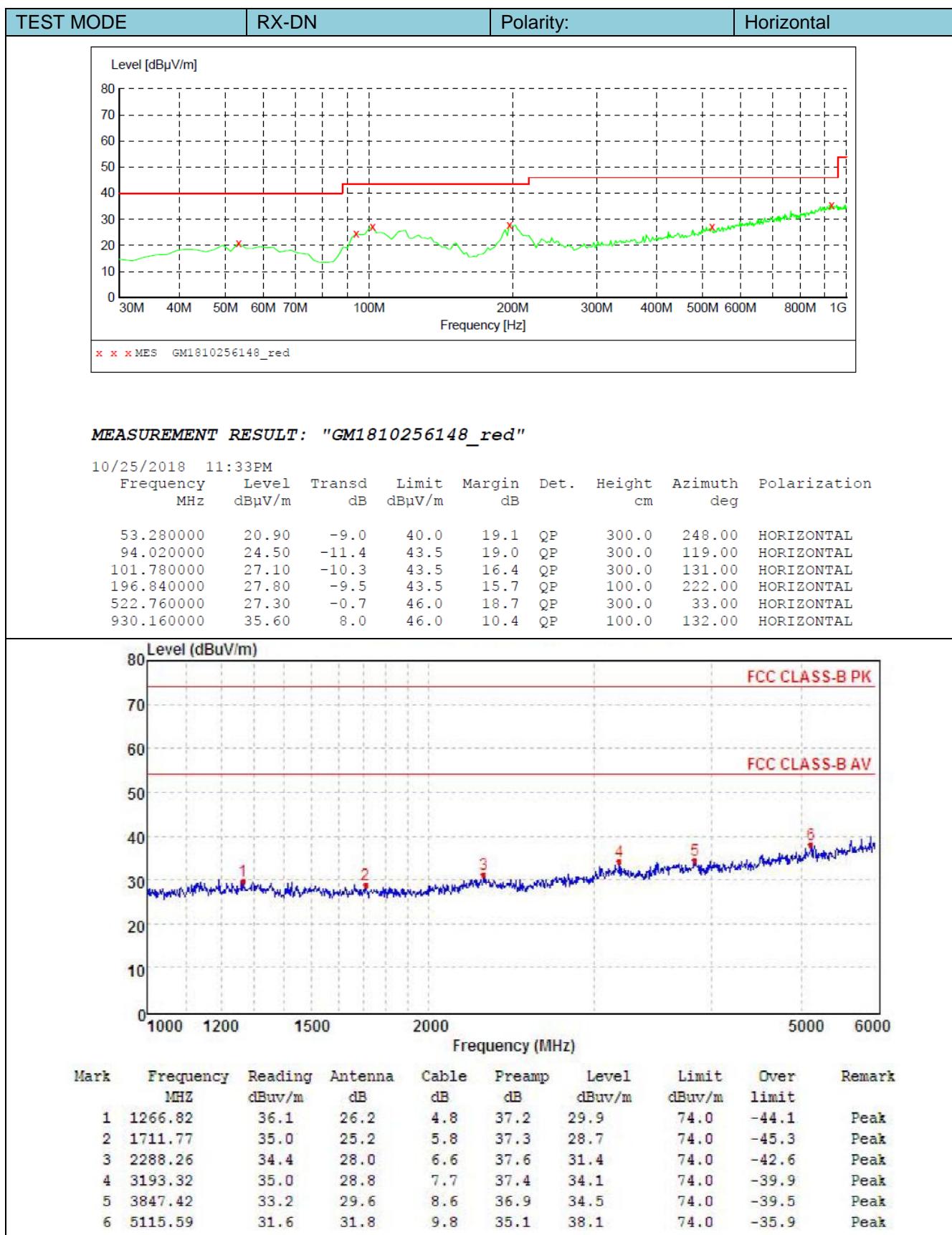
Please reference to the section 3.4

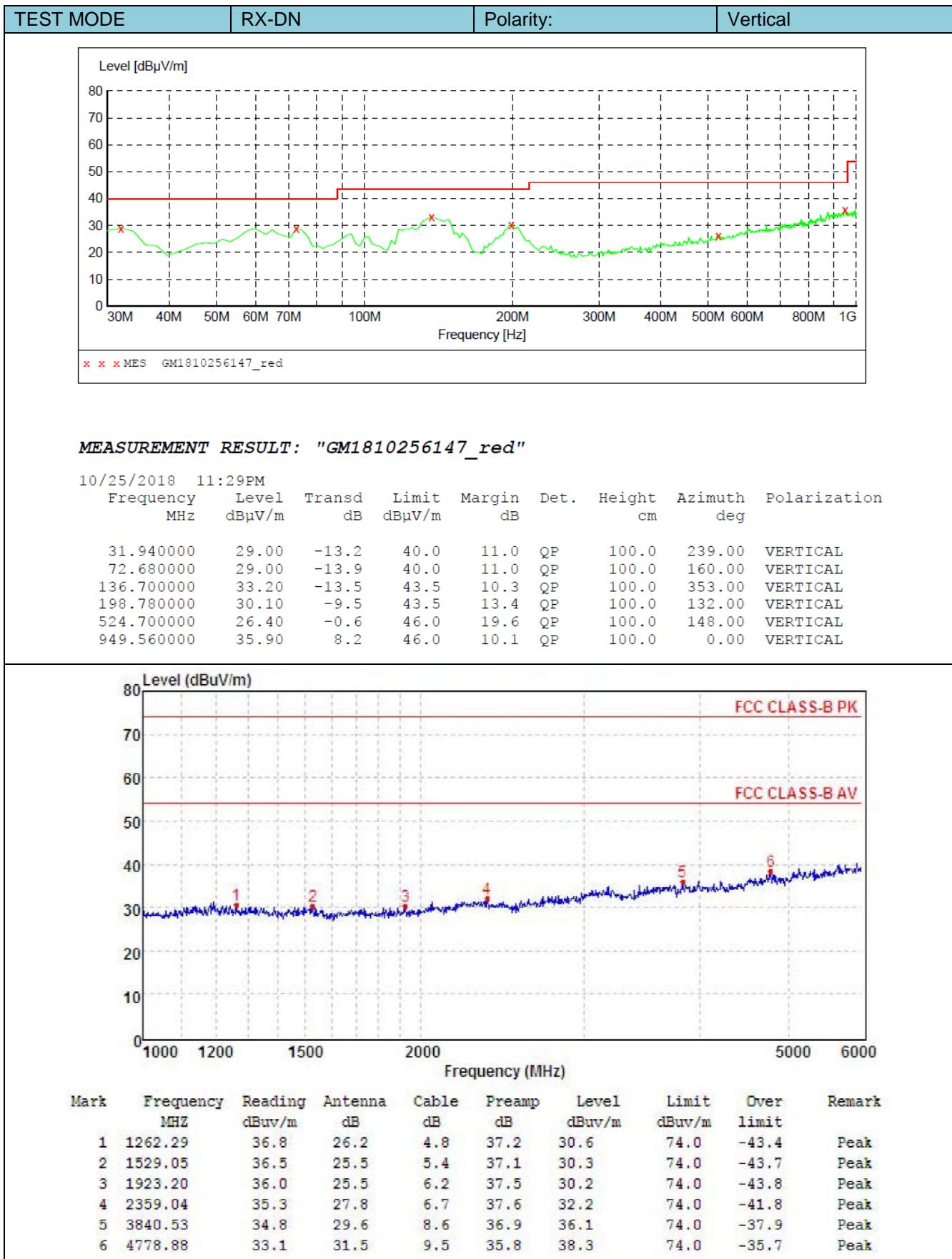
TEST RESULTS

Passed Not Applicable

Note:

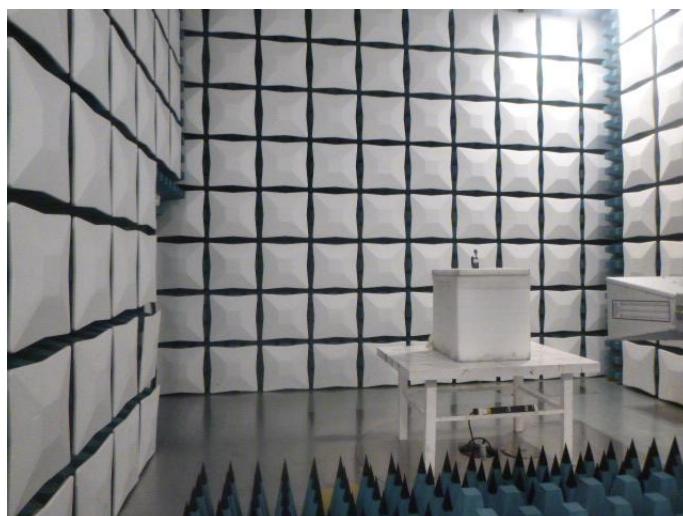
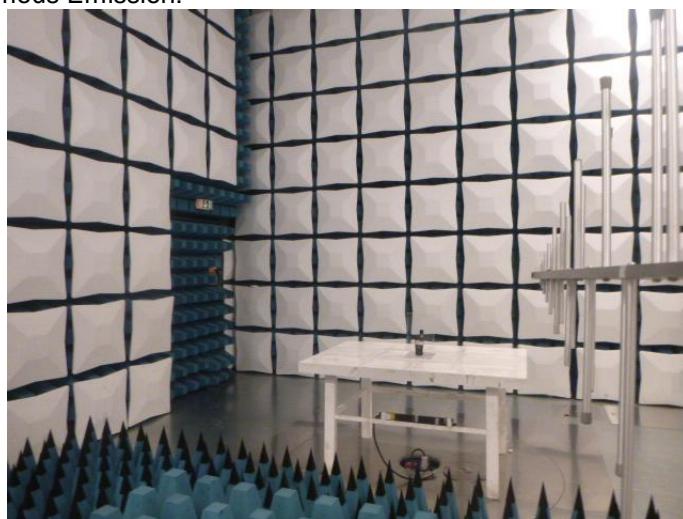
The EUT shall be scanned from 30 MHz to the 5th harmonic of the highest oscillator frequency in the digital devices or 1 GHz whichever is higher.





6 TEST SETUP PHOTOS OF THE EUT

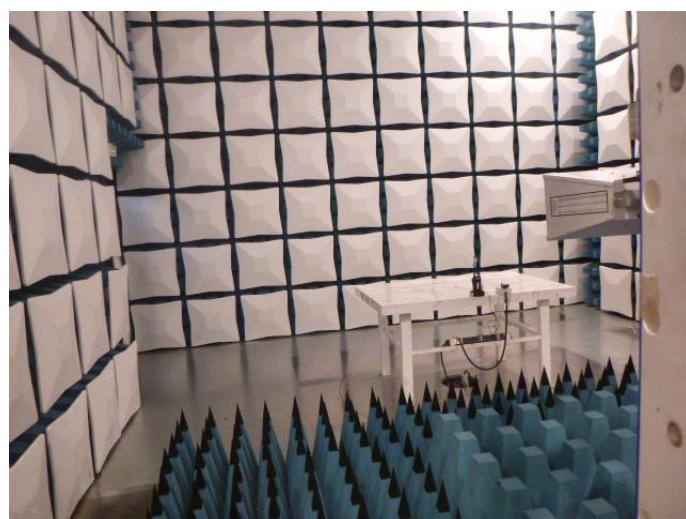
Transmitter Radiated Spurious Emission:



Frequency Stability:



Radiated Emission:



Conducted Emission:



7 EXTERNAL AND INTERNAL PHOTOS OF THE EUT

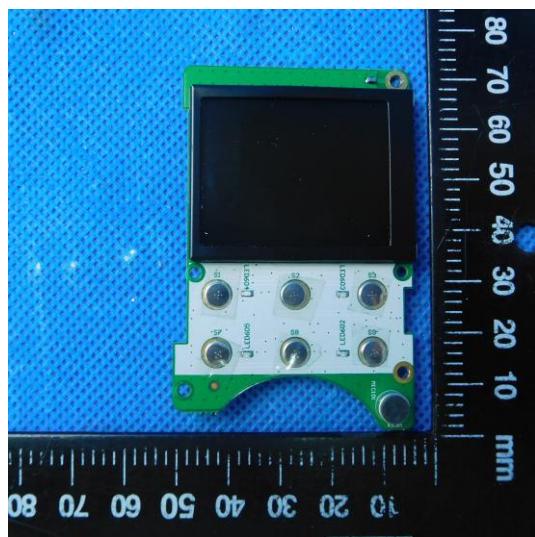
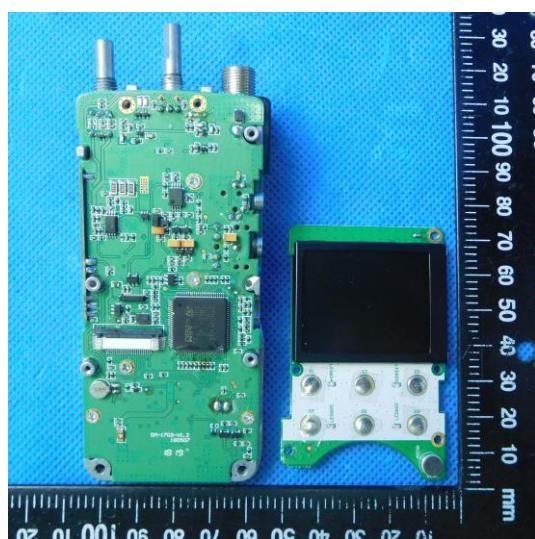
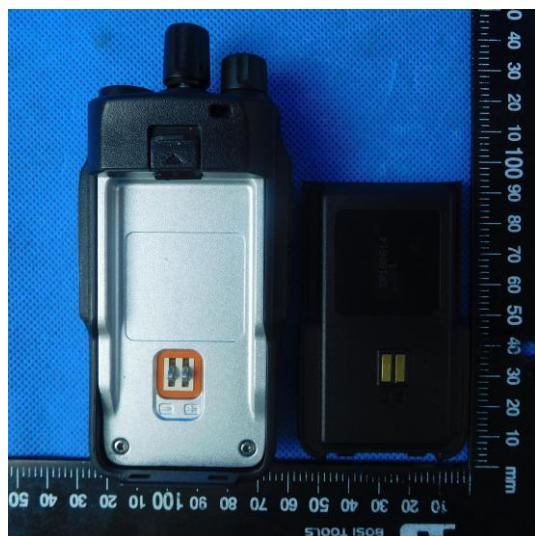
External Photos of the EUT

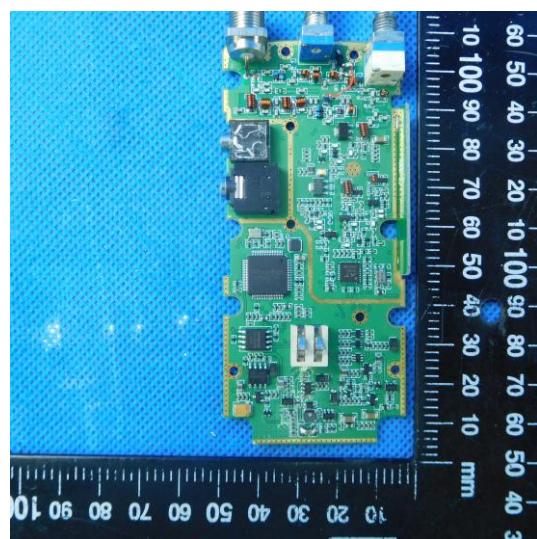
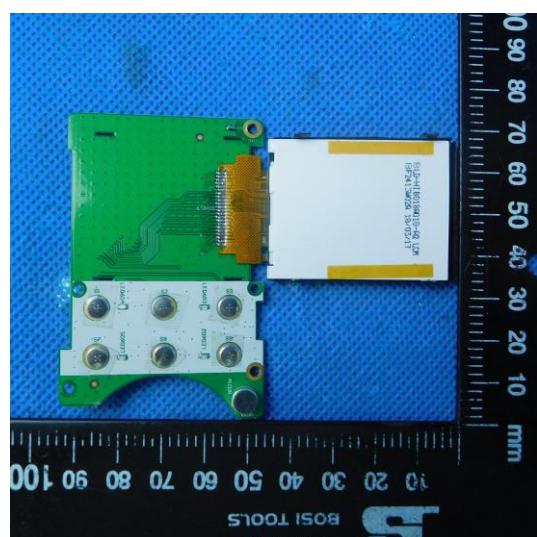


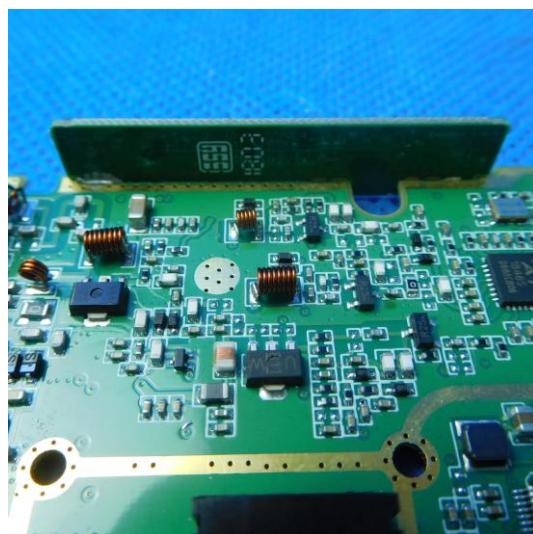
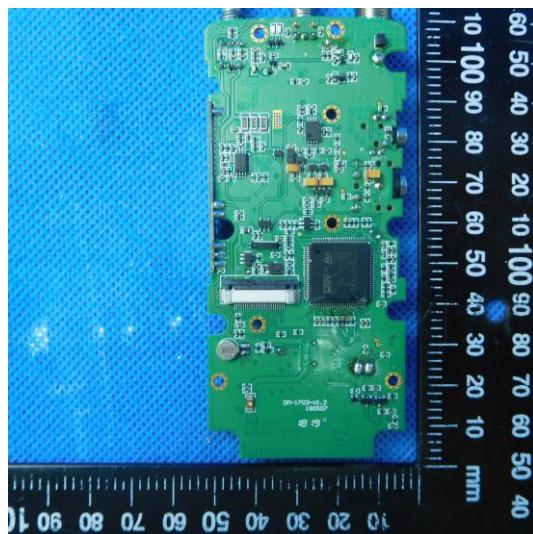




Internal Photos of the EUT







8 APPENDIX REPORT

**Appendix A:Maximum Transmitter Power for VHF Band**

| Operation Mode | Modulation Type | Test Channel | Measured Power(dBm) | Measured Power(W) | Rated Power(W) | Percentage (%) | Limit (%) | Result |
|----------------|-----------------|-----------------|---------------------|-------------------|----------------|----------------|-----------|--------|
| TX-DNH | 4FSK | CH _L | 36.9 | 4.84 | 5.00 | -3.2 | ±20 | PASS |
| TX-DNH | 4FSK | CH _M | 37.0 | 4.98 | 5.00 | -0.5 | ±20 | PASS |
| TX-DNH | 4FSK | CH _H | 36.9 | 4.86 | 5.00 | -2.7 | ±20 | PASS |
| TX-DNL | 4FSK | CH _L | 30.2 | 1.04 | 1.00 | 3.5 | ±20 | PASS |
| TX-DNL | 4FSK | CH _M | 29.9 | 0.97 | 1.00 | -3.2 | ±20 | PASS |
| TX-DNL | 4FSK | CH _H | 29.7 | 0.94 | 1.00 | -6.0 | ±20 | PASS |

**Appendix A:Maximum Transmitter Power for UHF Band**

| Operation Mode | Modulation Type | Test Channel | Measured Power(dBm) | Measured Power(W) | Rated Power(W) | Percentage (%) | Limit (%) | Result |
|----------------|-----------------|------------------|---------------------|-------------------|----------------|----------------|-----------|--------|
| TX-DNH | 4FSK | CH _{L1} | 36.9 | 4.94 | 5.00 | -1.2 | ±20 | PASS |
| TX-DNH | 4FSK | CH _{M1} | 36.3 | 4.30 | 5.00 | -14.1 | ±20 | PASS |
| TX-DNH | 4FSK | CH _{M2} | 37.0 | 4.98 | 5.00 | -0.5 | ±20 | PASS |
| TX-DNH | 4FSK | CH _{M3} | 36.8 | 4.83 | 5.00 | -3.4 | ±20 | PASS |
| TX-DNH | 4FSK | CH _{H1} | 37.0 | 4.99 | 5.00 | -0.2 | ±20 | PASS |
| TX-DNL | 4FSK | CH _{L1} | 29.7 | 0.94 | 1.00 | -6.2 | ±20 | PASS |
| TX-DNL | 4FSK | CH _{M1} | 29.7 | 0.94 | 1.00 | -6.0 | ±20 | PASS |
| TX-DNL | 4FSK | CH _{M2} | 29.6 | 0.91 | 1.00 | -8.8 | ±20 | PASS |
| TX-DNL | 4FSK | CH _{M3} | 29.5 | 0.89 | 1.00 | -10.9 | ±20 | PASS |
| TX-DNL | 4FSK | CH _{H1} | 29.8 | 0.95 | 1.00 | -4.5 | ±20 | PASS |

**Appendix B:Occupied Bandwidth for VHF Band**

| Operation Mode | Modulation Type | Test Channel | Occupied Bandwidth | | 99% Limit(kHz) | Result |
|----------------|-----------------|-----------------|--------------------|-----------|----------------|--------|
| | | | 99%(kHz) | 26dB(kHz) | | |
| TX-DNH | 4FSK | CH _L | 7.382 | 9.976 | ≤11.25 | PASS |
| TX-DNH | 4FSK | CH _M | 7.721 | 9.734 | ≤11.25 | PASS |
| TX-DNH | 4FSK | CH _H | 7.469 | 9.962 | ≤11.25 | PASS |
| TX-DNL | 4FSK | CH _L | 7.327 | 10.060 | ≤11.25 | PASS |
| TX-DNL | 4FSK | CH _M | 7.382 | 9.927 | ≤11.25 | PASS |
| TX-DNL | 4FSK | CH _H | 7.681 | 9.945 | ≤11.25 | PASS |



Appendix B:Occupied Bandwidth for VHF Band

| Operation Mode | Modulation Type | Test Channel | TEST PLOT RESULT |
|----------------|-----------------|-----------------|--|
| TX-DNH | 4FSK | CH _L | <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 136.012500 MHz Ref 38.52 dBm Log 10 dB/div #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.382 kHz Total Power 41.1 dBm Transmit Freq Error 181 Hz OBW Power 99.00 % x dB Bandwidth 9.976 kHz x dB -26.00 dB CF Step 5,000 kHz Freq Offset 0 Hz Status DC Coupled</p> |
| TX-DNH | 4FSK | CH _M | <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 155.012500 MHz Ref 38.74 dBm Log 10 dB/div #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.721 kHz Total Power 41.3 dBm Transmit Freq Error 127 Hz OBW Power 99.00 % x dB Bandwidth 9.734 kHz x dB -26.00 dB CF Step 5,000 kHz Freq Offset 0 Hz Status DC Coupled</p> |
| TX-DNH | 4FSK | CH _H | <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 173.987500 MHz Ref 38.62 dBm Log 10 dB/div #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.469 kHz Total Power 41.1 dBm Transmit Freq Error 72 Hz OBW Power 99.00 % x dB Bandwidth 9.962 kHz x dB -26.00 dB CF Step 5,000 kHz Freq Offset 0 Hz Status DC Coupled</p> |



Appendix B:Occupied Bandwidth for VHF Band

| Operation Mode | Modulation Type | Test Channel | TEST PLOT RESULT |
|----------------|-----------------|-----------------|---|
| TX-DNL | 4FSK | CH _L | <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 136.012500 MHz Ref 40.33 dBm Frequency Center Freq 136.012500 MHz CF Step 5,000 kHz Auto Freq Offset 0 Hz Status DC Coupled</p> <p>10 dB/div Log 10.3 9.67 9.03 8.39 7.75 7.11 6.47 5.83 5.19 4.55 3.91 3.27 2.63 2.09 1.45 0.81 -0.13 -5.57 -11.21 -16.85 -22.49 -28.13 -33.77 -39.41 -45.05 -49.79</p> <p>Ref 40.33 dBm Center Freq 136 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 7.327 kHz Total Power 43.0 dBm Transmit Freq Error 121 Hz OBW Power 99.00 % x dB Bandwidth 10.06 kHz x dB -26.00 dB</p> |
| TX-DNL | 4FSK | CH _M | <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 155.012500 MHz Ref 41.70 dBm Frequency Center Freq 155.012500 MHz CF Step 5,000 kHz Auto Freq Offset 0 Hz Status DC Coupled</p> <p>10 dB/div Log 31.7 21.7 11.7 8.3 18.3 28.3 38.3 48.3</p> <p>Ref 41.70 dBm Center 155 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 7.382 kHz Total Power 44.2 dBm Transmit Freq Error 57 Hz OBW Power 99.00 % x dB Bandwidth 9.927 kHz x dB -26.00 dB</p> |
| TX-DNL | 4FSK | CH _H | <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 173.987500 MHz Ref 40.74 dBm Frequency Center Freq 173.987500 MHz CF Step 5,000 kHz Auto Freq Offset 0 Hz Status DC Coupled</p> <p>10 dB/div Log 30.7 20.7 10.7 9.26 19.3 29.3 39.3 49.3</p> <p>Ref 40.74 dBm Center 174 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 7.681 kHz Total Power 43.1 dBm Transmit Freq Error 35 Hz OBW Power 99.00 % x dB Bandwidth 9.945 kHz x dB -26.00 dB</p> |

**Appendix B:Occupied Bandwidth for UHF Band**

| Operation Mode | Modulation Type | Test Channel | Occupied Bandwidth | | 99% Limit(kHz) | Result |
|----------------|-----------------|------------------|--------------------|-----------|----------------|--------|
| | | | 99%(kHz) | 26dB(kHz) | | |
| TX-DNH | 4FSK | CH _{L1} | 7.254 | 9.761 | ≤11.25 | PASS |
| TX-DNH | 4FSK | CH _{M1} | 7.435 | 9.619 | ≤11.25 | PASS |
| TX-DNH | 4FSK | CH _{M2} | 7.366 | 9.818 | ≤11.25 | PASS |
| TX-DNH | 4FSK | CH _{M3} | 7.698 | 9.866 | ≤11.25 | PASS |
| TX-DNH | 4FSK | CH _{H1} | 7.494 | 10.030 | ≤11.25 | PASS |
| TX-DNL | 4FSK | CH _{L1} | 7.678 | 10.050 | ≤11.25 | PASS |
| TX-DNL | 4FSK | CH _{M1} | 7.411 | 9.858 | ≤11.25 | PASS |
| TX-DNL | 4FSK | CH _{M2} | 7.737 | 9.839 | ≤11.25 | PASS |
| TX-DNL | 4FSK | CH _{M3} | 7.565 | 9.702 | ≤11.25 | PASS |
| TX-DNL | 4FSK | CH _{H1} | 7.814 | 10.170 | ≤11.25 | PASS |