

FCC Test Report

Report No.: RFBFKV-WTW-P23050559-1 R1

FCC ID: L6AITH100-1

Test Model: ITH100-1

Received Date: May 23, 2023

Test Date: Jun. 01 ~ Jun. 11, 2023 (For all tests of data rate: 80kbps & Radiated Emissions test of data rate: 500kbps)
Aug. 02, 2023 (For all tests except Radiated Emissions test of data rate: 500kbps)

Issued Date: Aug. 02, 2023

Applicant: BlackBerry Limited

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number(1):** 788550 / TW0003
**FCC Registration /
Designation Number(2):** 281270 / TW0032



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Release Control Record

| Issue No. | Description | Date Issued |
|---------------------------|-------------------------------------|---------------|
| RFBFKV-WTW-P23050559-1 | Original release | Jul. 07, 2023 |
| RFBFKV-WTW-P23050559-1 R1 | Add test data of data rate: 500kbps | Aug. 02, 2023 |

1 Certificate of Conformity

Product: Radar H2M IS

Brand: BlackBerry

Test Model: ITH100-1

Sample Status: Engineering sample

Applicant: BlackBerry Limited

Test Date: Jun. 01 ~ Jun. 11, 2023 (For all tests of data rate: 80kbps & Radiated Emissions test of data rate: 500kbps)

Aug. 02, 2023 (For all tests except Radiated Emissions test of data rate: 500kbps)

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10-2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Pettie Chen , **Date:** Aug. 02, 2023
Pettie Chen / Senior Specialist

Approved by : Jeremy Lin , **Date:** Aug. 02, 2023
Jeremy Lin / Project Engineer

2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.247) | | | |
|--|--|--------|--|
| FCC Clause | Test Item | Result | Remarks |
| 15.207 | AC Power Conducted Emission | NA | Power supply is 7.2Vdc from battery. |
| 15.205 / 15.209 / 15.247(d) | Radiated Emissions and Band Edge Measurement | Pass | Meet the requirement of limit. Minimum passing margin is -4.7dB at 30.97MHz. |
| 15.247(d) | Antenna Port Emission | Pass | Meet the requirement of limit. |
| 15.247(a)(2) | 6dB bandwidth | Pass | Meet the requirement of limit. |
| --- | Occupied Bandwidth Measurement | Pass | Reference only |
| 15.247(b) | Conducted power | Pass | Meet the requirement of limit. |
| 15.247(e) | Power Spectral Density | Pass | Meet the requirement of limit. |
| 15.203 | Antenna Requirement | Pass | Antenna connector is Murata MM8030-2610B/RJ3/RK0 not a standard connector. |

NA: Not Applicable

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | Frequency | Expanded Uncertainty (k=2) (\pm) |
|--------------------------------|------------------|--------------------------------------|
| Radiated Emissions up to 1 GHz | 9kHz ~ 30MHz | 3.00 dB |
| | 30MHz ~ 200MHz | 2.91 dB |
| | 200MHz ~ 1000MHz | 2.92 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 18GHz | 1.76 dB |
| | 18GHz ~ 40GHz | 1.77 dB |

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

| | |
|---------------------|---|
| Product | Radar H2M IS |
| Brand | BlackBerry |
| Test Model | ITH100-1 |
| Sample Status | Engineering sample |
| Power Supply Rating | 7.2Vdc from battery |
| Modulation Type | 80kbps: half-sine shaped OQPSK 500kbps: 2GFSK |
| Operating Frequency | 904-926MHz |
| Number of Channel | 23 |
| Transfer Rate | 80kbps, 500kbps |
| Output Power | Data Rate: 80kbps: 49.774mW Data Rate: 500kbps: 49.431mW |
| Antenna Type | Refer to note |
| Antenna Connector | Refer to note |
| Accessory Device | NA |
| Cable Supplied | NA |

Note:

1. The EUT consumes power from the following batteries.

| | |
|--------------|--------------------|
| Battery 1 | |
| Brand | EVE |
| Model | BAT-63705-001 |
| Power Rating | 7.2V, 38Ah, 274 Wh |

| | |
|--------------|--------------------|
| Battery 2 | |
| Brand | Vitrocell |
| Model | BAT-63705-002 |
| Power Rating | 7.2V, 38Ah, 274 Wh |

2. The following antennas were provided to the EUT.

| Antenna Type | Connector | Gain(dBi) |
|--------------|-----------------------------|-----------|
| Monopole | Murata MM8030-2610B/RJ3/RK0 | 2 |

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

3.2 Description of Test Modes

23 channels are provided to this EUT:

| Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|---------|-------------|---------|-------------|---------|-------------|
| 1 | 904 | 11 | 914 | 21 | 924 |
| 2 | 905 | 12 | 915 | 22 | 925 |
| 3 | 906 | 13 | 916 | 23 | 926 |
| 4 | 907 | 14 | 917 | | |
| 5 | 908 | 15 | 918 | | |
| 6 | 909 | 16 | 919 | | |
| 7 | 910 | 17 | 920 | | |
| 8 | 911 | 18 | 921 | | |
| 9 | 912 | 19 | 922 | | |
| 10 | 913 | 20 | 923 | | |

3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable to | | | | Description |
|--------------------|---------------|-----------|------|------|----------------------|
| | RE \geq 1G | RE $<$ 1G | PLC | APCM | |
| A | √ | √ | Note | √ | Power from battery 1 |
| B | - | √ | Note | - | Power from battery 2 |

Where RE \geq 1G: Radiated Emission above 1GHz & Bandedge Measurement
 RE $<$ 1G: Radiated Emission below 1GHz
 PLC: Power Line Conducted Emission
 APCM: Antenna Port Conducted Measurement

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-axis**.
2. Radiated emission test (below 1GHz) chosen the worst maximum power.
3. No need to concern of Conducted Emission due to the EUT is powered by battery.
4. "-": Means no effect.

Radiated Emission Test (Above 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel | Data Rate (kbps) | Modulation Type |
|--------------------|-------------------|----------------|------------------|------------------------|
| A | 1 | 904MHz | 80 | half-sine shaped OQPSK |
| | | | 500 | 2GFSK |
| A | 12 | 915MHz | 80 | half-sine shaped OQPSK |
| | | | 500 | 2GFSK |
| A | 23 | 926MHz | 80 | half-sine shaped OQPSK |
| | | | 500 | 2GFSK |

Radiated Emission Test (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel | Data Rate (kbps) | Modulation Type |
|--------------------|-------------------|----------------|------------------|------------------------|
| A, B | 1 | 904MHz | 80 | half-sine shaped OQPSK |
| | | | 500 | 2GFSK |
| A, B | 12 | 915MHz | 80 | half-sine shaped OQPSK |
| | | | 500 | 2GFSK |
| A, B | 23 | 926MHz | 80 | half-sine shaped OQPSK |
| | | | 500 | 2GFSK |

Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

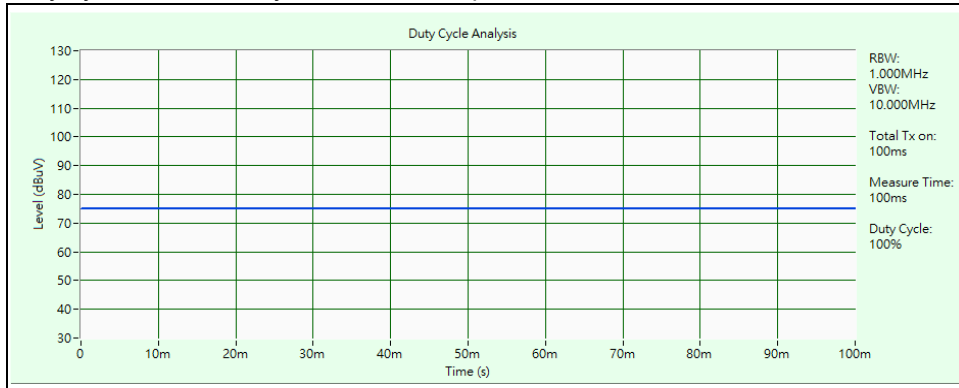
| EUT Configure Mode | Available Channel | Tested Channel | Data Rate (kbps) | Modulation Type |
|--------------------|-------------------|----------------|------------------|------------------------|
| A | 1 | 904MHz | 80 | half-sine shaped OQPSK |
| | | | 500 | 2GFSK |
| A | 12 | 915MHz | 80 | half-sine shaped OQPSK |
| | | | 500 | 2GFSK |
| A | 23 | 926MHz | 80 | half-sine shaped OQPSK |
| | | | 500 | 2GFSK |

Test Condition:

| Applicable to | Environmental Conditions | Input Power | Tested by |
|---------------|--------------------------|-------------|--------------|
| RE \geq 1G | 19 deg. C, 63% RH | 7.2Vdc | Edison Lee |
| RE<1G | 19 deg. C, 63% RH | 7.2Vdc | Edison Lee |
| APCM | 25 deg. C, 60% RH | 7.2Vdc | Jisyong Wang |

3.3 Duty Cycle of Test Signal

Duty cycle =100%, duty factor is not required.



3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test standard:

FCC Part 15, Subpart C (15.247)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 558074 D01 15.247 Meas Guidance v05r02

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 Test Instruments

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|--|------------------------------|---|------------------------|------------------------|
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | NA | NA | NA |
| Antenna Tower Max-Full | MFT-151SS-0.5T | NA | NA | NA |
| Turn Table Max-Full | MF-7802BS | NA | NA | NA |
| Turn Table Controller Max-Full | MF-7802BS | MF780208674 | NA | NA |
| EMI Test Receiver R&S | ESR3 | 102782 | 2022/12/12 | 2023/12/11 |
| Signal & Spectrum Analyzer R&S | FSW43 | 101866 | 2023/1/10 | 2024/1/9 |
| Loop Antenna Electro-Metrics | EM-6879 | 269 | 2022/9/19 | 2023/9/18 |
| Preamplifier EMCI | EMC001340 | 980201 | 2022/9/23 | 2023/9/22 |
| RF Coaxial Cable EMCI | 5D-NM-BM | 140903+140902 | 2023/1/7 | 2024/1/6 |
| Preamplifier EMCI | EMC330N | 980782 | 2023/1/16 | 2024/1/15 |
| Bi_Log Antenna Schwarzbeck | VULB 9168 | 9168-1213 | 2022/10/20 | 2023/10/19 |
| RF Coaxial Cable EMCI | EMCCFD400-NM-NM-500 | 201233 | 2023/1/16 | 2024/1/15 |
| RF Coaxial Cable EMCI | EMCCFD400-NM-NM-3000 | 201235 | 2023/1/16 | 2024/1/15 |
| RF Coaxial Cable EMCI | EMCCFD400-NM-NM-9000 | 201236(with PAD) | 2023/1/16 | 2024/1/15 |
| Horn Antenna RFSPIN | DRH18-E | 210103A18E | 2022/11/13 | 2023/11/12 |
| Preamplifier EMCI | EMC118A45SE | 980808 | 2022/12/29 | 2023/12/28 |
| RF Coaxial Cable EMCI | EMC104-SM-SM-1000 | 210102 | 2023/1/16 | 2024/1/15 |
| RF Coaxial Cable EMCI | EMC104-SM-SM-3000 | 201231 | 2023/1/16 | 2024/1/15 |
| RF Coaxial Cable EMCI | EMC104-SM-SM-9000 | 201243 | 2023/1/16 | 2024/1/15 |
| Preamplifier EMCI | EMC184045SE | 980788 | 2023/1/16 | 2024/1/15 |
| Horn Antenna Schwarzbeck | BBHA 9170 | 9170-1049 | 2022/11/13 | 2023/11/12 |
| RF Coaxial Cable EMCI | EMC101G-KM-KM-5000 | 201260 | 2023/1/16 | 2024/1/15 |
| RF Coaxial Cable EMCI | EMC101G-KM-KM-3000 | 201257 | 2023/1/16 | 2024/1/15 |
| RF Coaxial Cable EMCI | EMC101G-KM-KM-2000 | 201254 | 2023/1/16 | 2024/1/15 |
| USB Wideband Power Sensor KEYSIGHT | U2021XA | MY55050005/MY55190004/ MY55190007/MY55210005 | 2022/7/13 2023/7/19 | 2023/7/10 2023/7/18 |
| Boresight Antenna Fixture | FBA-01 | FBA-SIP01 | NA | NA |

- Note:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in WM Chamber 8.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

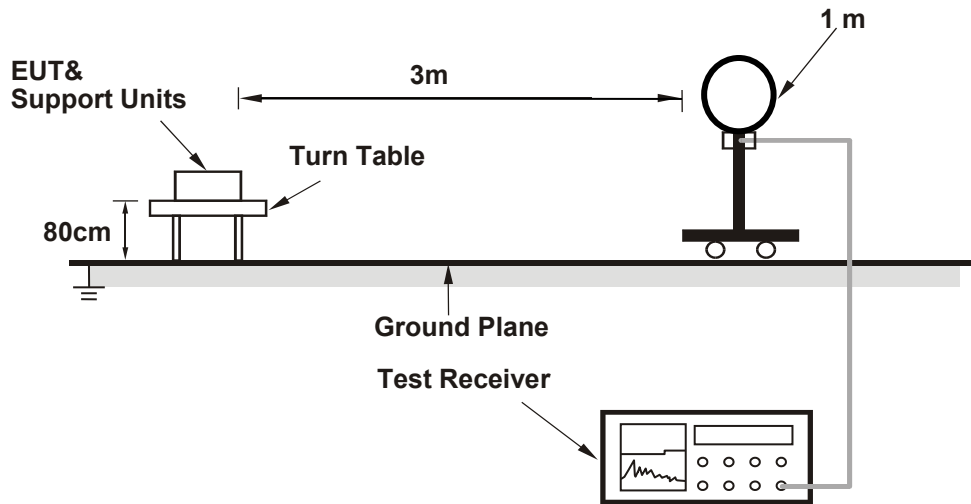
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

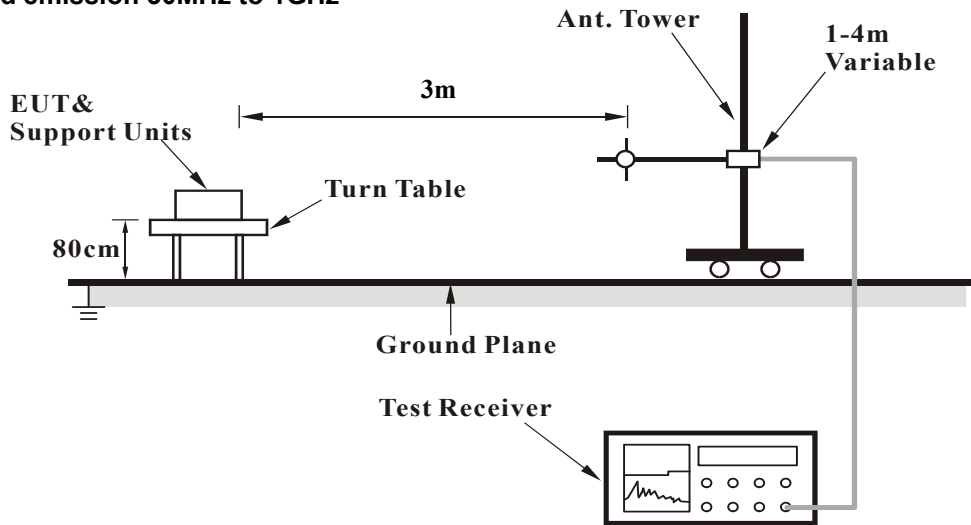
No deviation.

4.1.5 Test Setup

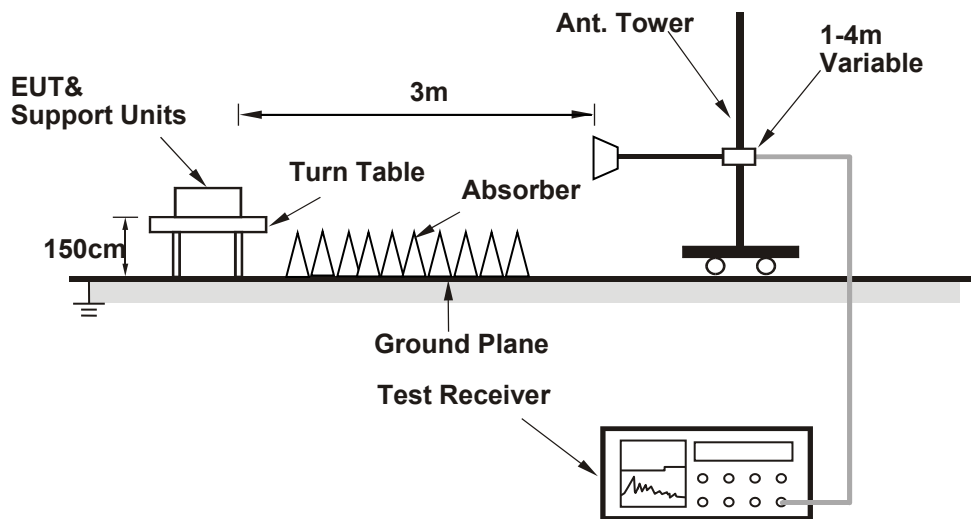
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- a. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

| | | | |
|-----------------|-----------------|-------------------|------------------------------|
| CHANNEL | TX Channel 1 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 902MHz ~ 928MHz | DETECTOR FUNCTION | Quasi-Peak (QP) Peak (PK) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 902.00 | 61.3 QP | 98.4 | -37.1 | 1.00 H | 225 | 31.5 | 29.8 |
| 2 | *904.00 | 117.7 QP | | | 1.00 H | 225 | 87.8 | 29.9 |
| 3 | *904.00 | 118.4 PK | | | 1.00 H | 225 | 88.5 | 29.9 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 902.00 | 57.5 QP | 92.0 | -34.5 | 1.67 V | 266 | 27.7 | 29.8 |
| 2 | *904.00 | 111.1 QP | | | 1.67 V | 266 | 81.2 | 29.9 |
| 3 | *904.00 | 112.0 PK | | | 1.67 V | 266 | 82.1 | 29.9 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| | | | |
|-----------------|-----------------|-------------------|------------------------------|
| CHANNEL | TX Channel 12 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 902MHz ~ 928MHz | DETECTOR FUNCTION | Quasi-Peak (QP) Peak (PK) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *915.00 | 116.5 QP | | | 1.00 H | 228 | 86.4 | 30.1 |
| 2 | *915.00 | 117.6 PK | | | 1.00 H | 228 | 87.5 | 30.1 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *915.00 | 110.3 QP | | | 2.73 V | 271 | 80.2 | 30.1 |
| 2 | *915.00 | 111.6 PK | | | 2.73 V | 271 | 81.5 | 30.1 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. " * ": Fundamental frequency.

| | | | |
|-----------------|-----------------|-------------------|------------------------------|
| CHANNEL | TX Channel 23 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 902MHz ~ 928MHz | DETECTOR FUNCTION | Quasi-Peak (QP) Peak (PK) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *926.00 | 115.3 QP | | | 1.00 H | 333 | 85.0 | 30.3 |
| 2 | *926.00 | 116.6 PK | | | 1.00 H | 333 | 86.3 | 30.3 |
| 3 | 928.00 | 60.7 QP | 96.6 | -35.9 | 1.00 H | 333 | 30.4 | 30.3 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *926.00 | 110.0 QP | | | 2.70 V | 271 | 79.7 | 30.3 |
| 2 | *926.00 | 110.7 PK | | | 2.70 V | 271 | 80.4 | 30.3 |
| 3 | 928.00 | 58.1 QP | 90.7 | -32.6 | 2.70 V | 271 | 27.8 | 30.3 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| | | | |
|-----------------|-----------------|-------------------|------------------------------|
| CHANNEL | TX Channel 1 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 902MHz ~ 928MHz | DETECTOR FUNCTION | Quasi-Peak (QP) Peak (PK) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 902.00 | 60.8 QP | 98.9 | -38.1 | 1.00 H | 231 | 31.0 | 29.8 |
| 2 | *904.00 | 117.6 QP | | | 1.00 H | 231 | 87.7 | 29.9 |
| 3 | *904.00 | 118.9 PK | | | 1.00 H | 231 | 89.0 | 29.9 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 902.00 | 56.8 QP | 92.1 | -35.3 | 1.67 V | 256 | 27.0 | 29.8 |
| 2 | *904.00 | 110.9 QP | | | 1.67 V | 256 | 81.0 | 29.9 |
| 3 | *904.00 | 112.1 PK | | | 1.67 V | 256 | 82.2 | 29.9 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

| | | | |
|-----------------|-----------------|-------------------|------------------------------|
| CHANNEL | TX Channel 12 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 902MHz ~ 928MHz | DETECTOR FUNCTION | Quasi-Peak (QP) Peak (PK) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *915.00 | 116.6 QP | | | 1.00 H | 227 | 86.5 | 30.1 |
| 2 | *915.00 | 117.8 PK | | | 1.00 H | 227 | 87.7 | 30.1 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *915.00 | 110.5 QP | | | 2.70 V | 269 | 80.4 | 30.1 |
| 2 | *915.00 | 111.7 PK | | | 2.70 V | 269 | 81.6 | 30.1 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. " * ": Fundamental frequency.

| | | | |
|-----------------|-----------------|-------------------|------------------------------|
| CHANNEL | TX Channel 23 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 902MHz ~ 928MHz | DETECTOR FUNCTION | Quasi-Peak (QP) Peak (PK) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *926.00 | 115.4 QP | | | 1.00 H | 337 | 85.1 | 30.3 |
| 2 | *926.00 | 116.3 PK | | | 1.00 H | 337 | 86.0 | 30.3 |
| 3 | 928.00 | 61.2 QP | 96.3 | -35.1 | 1.00 H | 337 | 30.9 | 30.3 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *926.00 | 110.2 QP | | | 2.68 V | 271 | 79.9 | 30.3 |
| 2 | *926.00 | 110.8 PK | | | 2.68 V | 271 | 80.5 | 30.3 |
| 3 | 928.00 | 57.8 QP | 90.8 | -33.0 | 2.68 V | 271 | 27.5 | 30.3 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

Above 1GHz Data

| | | | |
|-----------------|--------------|-------------------|---------------------------|
| CHANNEL | TX Channel 1 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 1GHz ~ 10GHz | DETECTOR FUNCTION | Peak (PK) Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | #1808.00 | 61.5 PK | 98.4 | -36.9 | 1.90 H | 195 | 67.2 | -5.7 |
| 2 | #1808.00 | 58.8 AV | 78.4 | -19.6 | 1.90 H | 195 | 64.5 | -5.7 |
| 3 | 2712.00 | 44.8 PK | 74.0 | -29.2 | 1.83 H | 185 | 47.3 | -2.5 |
| 4 | 2712.00 | 35.9 AV | 54.0 | -18.1 | 1.83 H | 185 | 38.4 | -2.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | #1808.00 | 57.8 PK | 92.0 | -34.2 | 2.92 V | 259 | 63.5 | -5.7 |
| 2 | #1808.00 | 55.0 AV | 72.0 | -17.0 | 2.92 V | 259 | 60.7 | -5.7 |
| 3 | 2712.00 | 44.3 PK | 74.0 | -29.7 | 2.93 V | 267 | 46.8 | -2.5 |
| 4 | 2712.00 | 35.1 AV | 54.0 | -18.9 | 2.93 V | 267 | 37.6 | -2.5 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. " # ": The radiated frequency is out of the restricted band.

| | | | |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL | TX Channel 12 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 1GHz ~ 10GHz | DETECTOR FUNCTION | Peak (PK) Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | #1830.00 | 58.1 PK | 97.6 | -39.5 | 1.52 H | 188 | 63.7 | -5.6 |
| 2 | #1830.00 | 55.1 AV | 77.6 | -22.5 | 1.52 H | 188 | 60.7 | -5.6 |
| 3 | 2745.00 | 44.6 PK | 74.0 | -29.4 | 1.66 H | 178 | 47.0 | -2.4 |
| 4 | 2745.00 | 35.6 AV | 54.0 | -18.4 | 1.66 H | 178 | 38.0 | -2.4 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | #1830.00 | 54.8 PK | 91.6 | -36.8 | 2.87 V | 251 | 60.4 | -5.6 |
| 2 | #1830.00 | 51.3 AV | 71.6 | -20.3 | 2.87 V | 251 | 56.9 | -5.6 |
| 3 | 2745.00 | 44.1 PK | 74.0 | -29.9 | 2.86 V | 269 | 46.5 | -2.4 |
| 4 | 2745.00 | 34.8 AV | 54.0 | -19.2 | 2.86 V | 269 | 37.2 | -2.4 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. "#": The radiated frequency is out of the restricted band.

| | | | |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL | TX Channel 23 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 1GHz ~ 10GHz | DETECTOR FUNCTION | Peak (PK) Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | #1852.00 | 55.2 PK | 96.6 | -41.4 | 1.47 H | 192 | 60.7 | -5.5 |
| 2 | #1852.00 | 52.2 AV | 76.6 | -24.4 | 1.47 H | 192 | 57.7 | -5.5 |
| 3 | 2778.00 | 44.5 PK | 74.0 | -29.5 | 1.44 H | 188 | 46.7 | -2.2 |
| 4 | 2778.00 | 35.3 AV | 54.0 | -18.7 | 1.44 H | 188 | 37.5 | -2.2 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | #1852.00 | 51.9 PK | 90.7 | -38.8 | 3.24 V | 260 | 57.4 | -5.5 |
| 2 | #1852.00 | 48.1 AV | 70.7 | -22.6 | 3.24 V | 260 | 53.6 | -5.5 |
| 3 | 2778.00 | 44.4 PK | 74.0 | -29.6 | 3.45 V | 254 | 46.6 | -2.2 |
| 4 | 2778.00 | 34.3 AV | 54.0 | -19.7 | 3.45 V | 254 | 36.5 | -2.2 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. "#": The radiated frequency is out of the restricted band.

| | | | |
|-----------------|--------------|-------------------|---------------------------|
| CHANNEL | TX Channel 1 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 1GHz ~ 10GHz | DETECTOR FUNCTION | Peak (PK) Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | #1808.00 | 61.8 PK | 98.9 | -37.1 | 1.84 H | 186 | 67.5 | -5.7 |
| 2 | #1808.00 | 59.0 AV | 78.9 | -19.9 | 1.84 H | 186 | 64.7 | -5.7 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | #1808.00 | 58.8 PK | 92.1 | -33.3 | 2.93 V | 253 | 64.5 | -5.7 |
| 2 | #1808.00 | 56.1 AV | 72.1 | -16.0 | 2.93 V | 253 | 61.8 | -5.7 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. " # ": The radiated frequency is out of the restricted band.

| | | | |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL | TX Channel 12 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 1GHz ~ 10GHz | DETECTOR FUNCTION | Peak (PK) Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #1830.00 | 58.5 PK | 97.8 | -39.3 | 1.50 H | 186 | 64.1 | -5.6 |
| 2 | #1830.00 | 55.4 AV | 77.8 | -22.4 | 1.50 H | 186 | 61.0 | -5.6 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #1830.00 | 55.0 PK | 91.7 | -36.7 | 2.88 V | 254 | 60.6 | -5.6 |
| 2 | #1830.00 | 51.6 AV | 71.7 | -20.1 | 2.88 V | 254 | 57.2 | -5.6 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. " # ": The radiated frequency is out of the restricted band.

| | | | |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL | TX Channel 23 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 1GHz ~ 10GHz | DETECTOR FUNCTION | Peak (PK) Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | #1852.00 | 55.6 PK | 96.3 | -40.7 | 1.46 H | 188 | 61.1 | -5.5 |
| 2 | #1852.00 | 52.7 AV | 76.3 | -23.6 | 1.46 H | 188 | 58.2 | -5.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | #1852.00 | 52.5 PK | 90.8 | -38.3 | 3.30 V | 258 | 58.0 | -5.5 |
| 2 | #1852.00 | 48.8 AV | 70.8 | -22.0 | 3.30 V | 258 | 54.3 | -5.5 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value.
5. " # ": The radiated frequency is out of the restricted band.

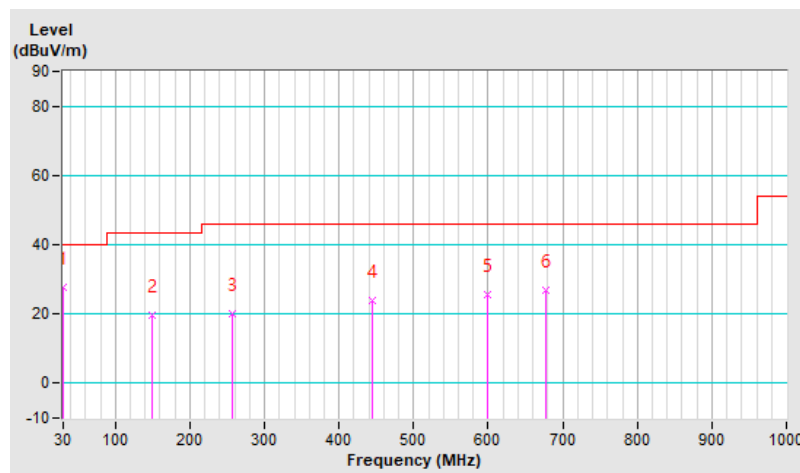
Below 1GHz worst-case data:

| | | | |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL | TX Channel 1 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.97 | 27.6 QP | 40.0 | -12.4 | 1.00 H | 123 | 42.2 | -14.6 |
| 2 | 148.34 | 19.7 QP | 43.5 | -23.8 | 1.00 H | 107 | 32.9 | -13.2 |
| 3 | 256.01 | 20.0 QP | 46.0 | -26.0 | 1.50 H | 194 | 34.5 | -14.5 |
| 4 | 445.16 | 23.8 QP | 46.0 | -22.2 | 2.00 H | 148 | 32.7 | -8.9 |
| 5 | 599.39 | 25.6 QP | 46.0 | -20.4 | 1.50 H | 167 | 31.2 | -5.6 |
| 6 | 676.99 | 26.7 QP | 46.0 | -19.3 | 1.00 H | 228 | 31.2 | -4.5 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

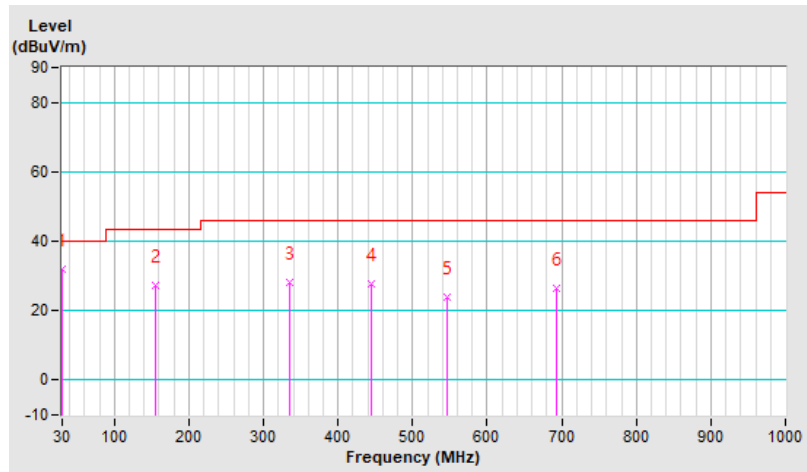


| | | | |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL | TX Channel 1 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.00 | 31.8 QP | 40.0 | -8.2 | 2.00 V | 105 | 46.2 | -14.4 |
| 2 | 155.13 | 27.3 QP | 43.5 | -16.2 | 1.00 V | 192 | 40.3 | -13.0 |
| 3 | 334.58 | 28.0 QP | 46.0 | -18.0 | 1.00 V | 162 | 39.7 | -11.7 |
| 4 | 445.16 | 27.8 QP | 46.0 | -18.2 | 1.50 V | 204 | 36.7 | -8.9 |
| 5 | 546.04 | 24.0 QP | 46.0 | -22.0 | 1.00 V | 138 | 31.1 | -7.1 |
| 6 | 693.48 | 26.4 QP | 46.0 | -19.6 | 1.50 V | 312 | 30.5 | -4.1 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

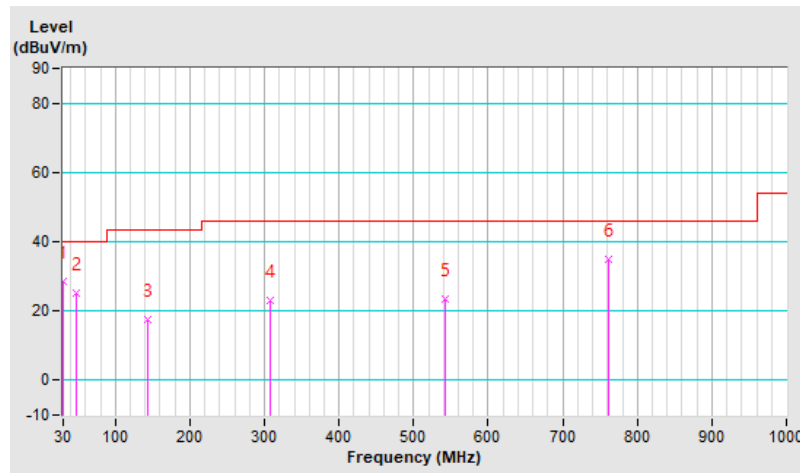


| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 12 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.97 | 28.4 QP | 40.0 | -11.6 | 1.50 H | 130 | 43.0 | -14.6 |
| 2 | 48.43 | 25.0 QP | 40.0 | -15.0 | 1.00 H | 263 | 38.1 | -13.1 |
| 3 | 142.52 | 17.4 QP | 43.5 | -26.1 | 2.00 H | 18 | 30.8 | -13.4 |
| 4 | 307.42 | 22.9 QP | 46.0 | -23.1 | 1.00 H | 208 | 35.3 | -12.4 |
| 5 | 542.16 | 23.6 QP | 46.0 | -22.4 | 2.00 H | 284 | 30.8 | -7.2 |
| 6 | 762.35 | 35.1 QP | 46.0 | -10.9 | 1.00 H | 114 | 37.8 | -2.7 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

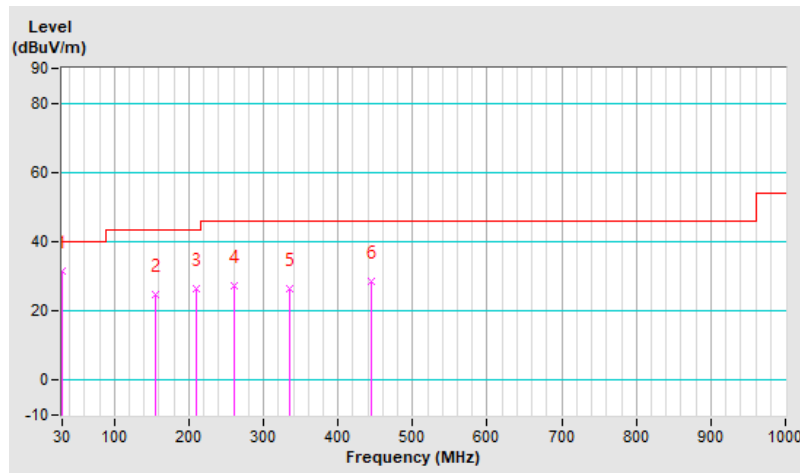


| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 12 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.00 | 31.5 QP | 40.0 | -8.5 | 1.50 V | 271 | 45.9 | -14.4 |
| 2 | 155.13 | 24.6 QP | 43.5 | -18.9 | 1.00 V | 126 | 37.6 | -13.0 |
| 3 | 209.45 | 26.5 QP | 43.5 | -17.0 | 1.00 V | 171 | 43.5 | -17.0 |
| 4 | 259.89 | 27.5 QP | 46.0 | -18.5 | 2.00 V | 346 | 41.7 | -14.2 |
| 5 | 334.58 | 26.4 QP | 46.0 | -19.6 | 2.00 V | 143 | 38.1 | -11.7 |
| 6 | 445.16 | 28.4 QP | 46.0 | -17.6 | 1.00 V | 107 | 37.3 | -8.9 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

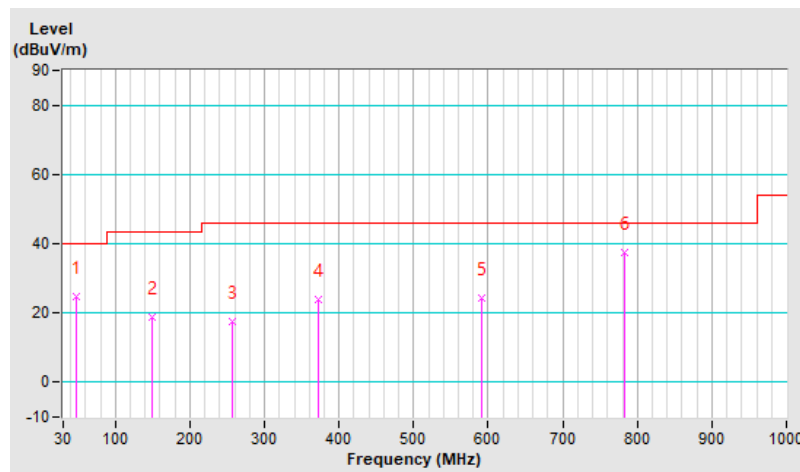


| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 23 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 48.43 | 24.8 QP | 40.0 | -15.2 | 2.00 H | 82 | 37.9 | -13.1 |
| 2 | 148.34 | 18.9 QP | 43.5 | -24.6 | 1.00 H | 149 | 32.1 | -13.2 |
| 3 | 256.01 | 17.6 QP | 46.0 | -28.4 | 1.50 H | 15 | 32.1 | -14.5 |
| 4 | 371.44 | 24.0 QP | 46.0 | -22.0 | 1.00 H | 117 | 35.0 | -11.0 |
| 5 | 591.63 | 24.3 QP | 46.0 | -21.7 | 2.00 H | 248 | 30.1 | -5.8 |
| 6 | 783.69 | 37.6 QP | 46.0 | -8.4 | 1.00 H | 128 | 40.2 | -2.6 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

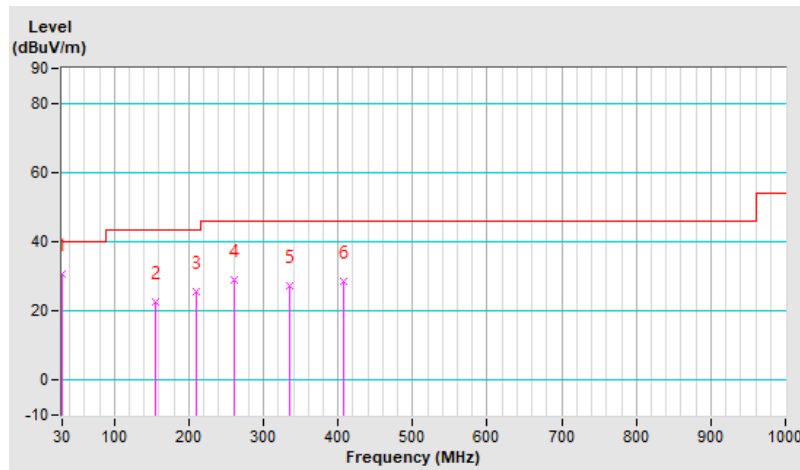


| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 23 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.00 | 30.8 QP | 40.0 | -9.2 | 1.00 V | 2 | 45.2 | -14.4 |
| 2 | 155.13 | 22.8 QP | 43.5 | -20.7 | 1.00 V | 42 | 35.8 | -13.0 |
| 3 | 209.45 | 25.4 QP | 43.5 | -18.1 | 1.50 V | 189 | 42.4 | -17.0 |
| 4 | 259.89 | 28.9 QP | 46.0 | -17.1 | 2.00 V | 36 | 43.1 | -14.2 |
| 5 | 334.58 | 27.3 QP | 46.0 | -18.7 | 1.00 V | 262 | 39.0 | -11.7 |
| 6 | 408.30 | 28.6 QP | 46.0 | -17.4 | 1.00 V | 267 | 38.7 | -10.1 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

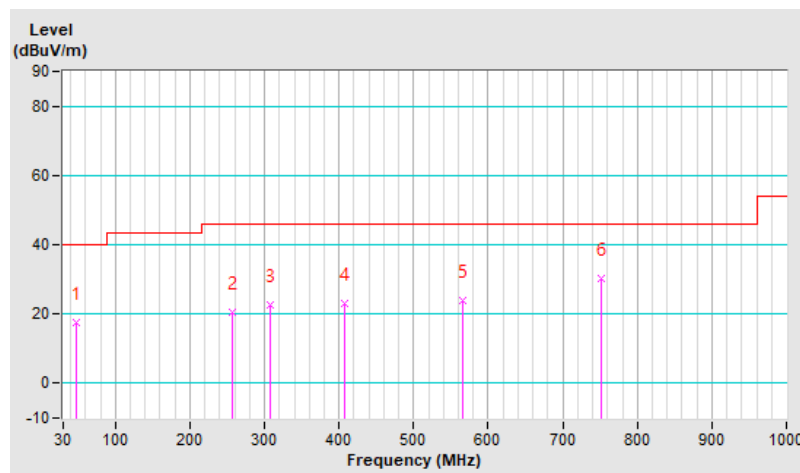


| | | | |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL | TX Channel 1 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 48.43 | 17.5 QP | 40.0 | -22.5 | 2.00 H | 2 | 30.6 | -13.1 |
| 2 | 256.01 | 20.7 QP | 46.0 | -25.3 | 1.00 H | 66 | 35.2 | -14.5 |
| 3 | 307.42 | 22.8 QP | 46.0 | -23.2 | 2.00 H | 191 | 35.2 | -12.4 |
| 4 | 408.30 | 22.9 QP | 46.0 | -23.1 | 1.00 H | 294 | 33.0 | -10.1 |
| 5 | 565.44 | 23.7 QP | 46.0 | -22.3 | 1.00 H | 99 | 30.4 | -6.7 |
| 6 | 750.71 | 30.3 QP | 46.0 | -15.7 | 1.50 H | 71 | 33.1 | -2.8 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

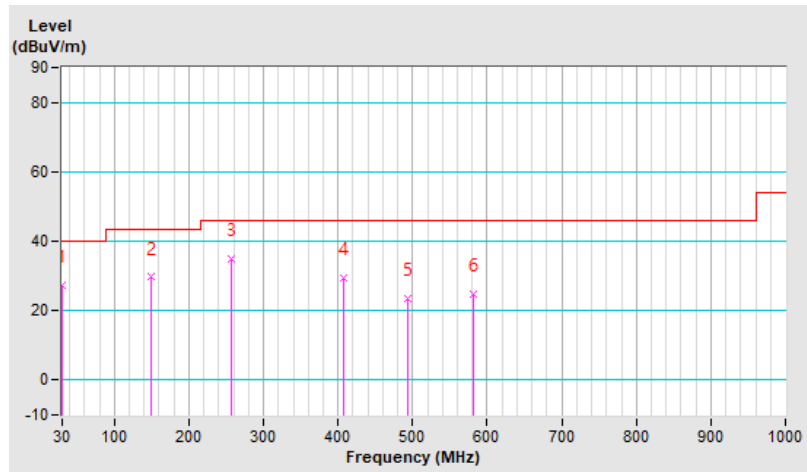


| | | | |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL | TX Channel 1 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.97 | 27.3 QP | 40.0 | -12.7 | 2.00 V | 59 | 41.9 | -14.6 |
| 2 | 148.34 | 29.6 QP | 43.5 | -13.9 | 1.00 V | 30 | 42.8 | -13.2 |
| 3 | 256.01 | 34.9 QP | 46.0 | -11.1 | 1.00 V | 20 | 49.4 | -14.5 |
| 4 | 408.30 | 29.6 QP | 46.0 | -16.4 | 1.50 V | 125 | 39.7 | -10.1 |
| 5 | 492.69 | 23.6 QP | 46.0 | -22.4 | 1.50 V | 17 | 31.6 | -8.0 |
| 6 | 581.93 | 24.6 QP | 46.0 | -21.4 | 1.00 V | 104 | 30.7 | -6.1 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

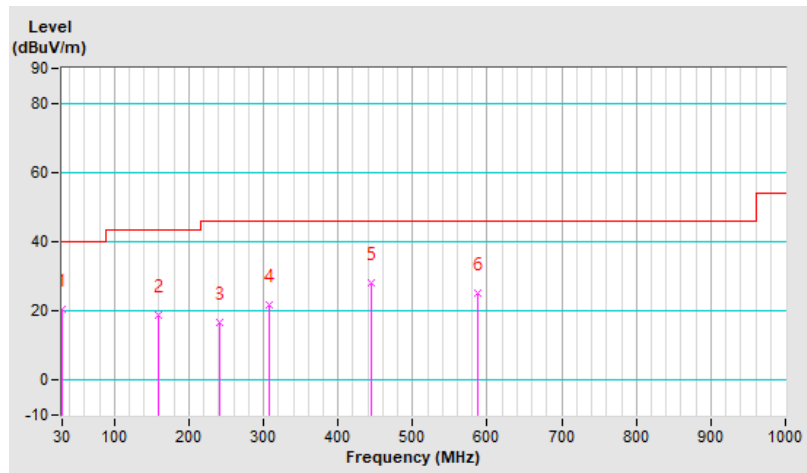


| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 12 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.97 | 20.6 QP | 40.0 | -19.4 | 1.50 H | 328 | 35.2 | -14.6 |
| 2 | 159.01 | 18.9 QP | 43.5 | -24.6 | 1.00 H | 52 | 31.9 | -13.0 |
| 3 | 240.49 | 16.5 QP | 46.0 | -29.5 | 1.50 H | 19 | 31.3 | -14.8 |
| 4 | 307.42 | 21.6 QP | 46.0 | -24.4 | 1.00 H | 2 | 34.0 | -12.4 |
| 5 | 445.16 | 28.2 QP | 46.0 | -17.8 | 2.00 H | 133 | 37.1 | -8.9 |
| 6 | 586.78 | 25.1 QP | 46.0 | -20.9 | 1.00 H | 18 | 31.0 | -5.9 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

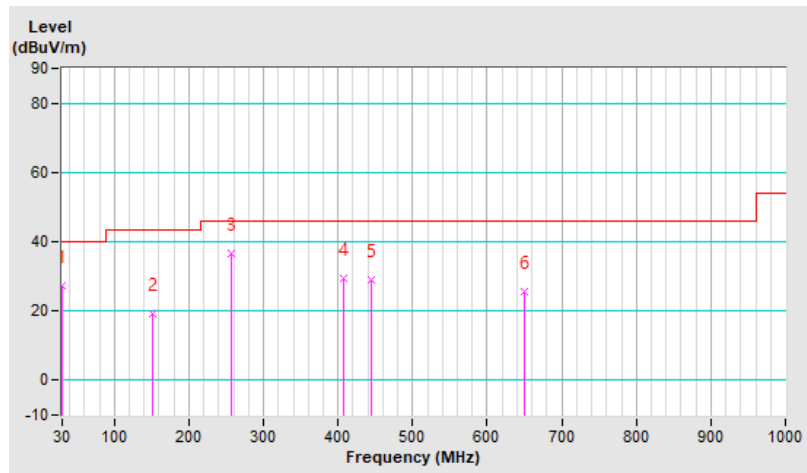


| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 12 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.97 | 27.5 QP | 40.0 | -12.5 | 1.50 V | 112 | 42.1 | -14.6 |
| 2 | 150.28 | 19.2 QP | 43.5 | -24.3 | 1.00 V | 39 | 32.2 | -13.0 |
| 3 | 256.01 | 36.8 QP | 46.0 | -9.2 | 1.50 V | 34 | 51.3 | -14.5 |
| 4 | 408.30 | 29.4 QP | 46.0 | -16.6 | 1.00 V | 292 | 39.5 | -10.1 |
| 5 | 445.16 | 28.9 QP | 46.0 | -17.1 | 1.50 V | 198 | 37.8 | -8.9 |
| 6 | 649.83 | 25.7 QP | 46.0 | -20.3 | 1.00 V | 236 | 30.5 | -4.8 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

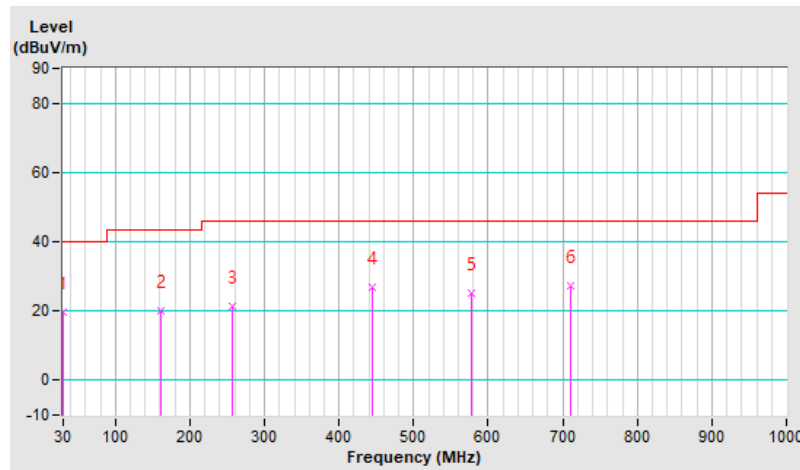


| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 23 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.97 | 19.8 QP | 40.0 | -20.2 | 2.00 H | 297 | 34.4 | -14.6 |
| 2 | 161.92 | 19.9 QP | 43.5 | -23.6 | 1.00 H | 2 | 33.0 | -13.1 |
| 3 | 256.01 | 21.3 QP | 46.0 | -24.7 | 1.50 H | 48 | 35.8 | -14.5 |
| 4 | 445.16 | 26.8 QP | 46.0 | -19.2 | 1.50 H | 138 | 35.7 | -8.9 |
| 5 | 577.08 | 25.1 QP | 46.0 | -20.9 | 1.00 H | 288 | 31.4 | -6.3 |
| 6 | 710.94 | 27.4 QP | 46.0 | -18.6 | 1.00 H | 243 | 31.3 | -3.9 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



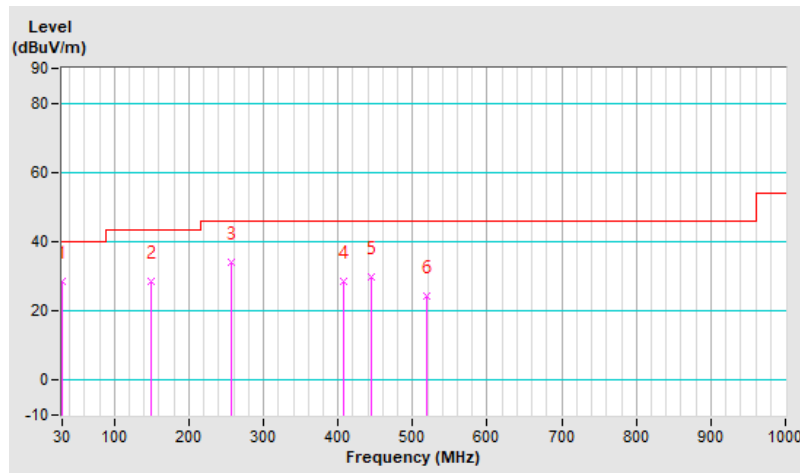
| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 23 | DATA RATE | 80kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 30.97 | 28.4 QP | 40.0 | -11.6 | 1.00 V | 52 | 43.0 | -14.6 |
| 2 | 148.34 | 28.5 QP | 43.5 | -15.0 | 2.00 V | 44 | 41.7 | -13.2 |
| 3 | 256.01 | 34.0 QP | 46.0 | -12.0 | 1.00 V | 13 | 48.5 | -14.5 |
| 4 | 408.30 | 28.5 QP | 46.0 | -17.5 | 1.50 V | 132 | 38.6 | -10.1 |
| 5 | 445.16 | 29.8 QP | 46.0 | -16.2 | 1.00 V | 112 | 38.7 | -8.9 |
| 6 | 519.85 | 24.5 QP | 46.0 | -21.5 | 1.00 V | 124 | 32.1 | -7.6 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

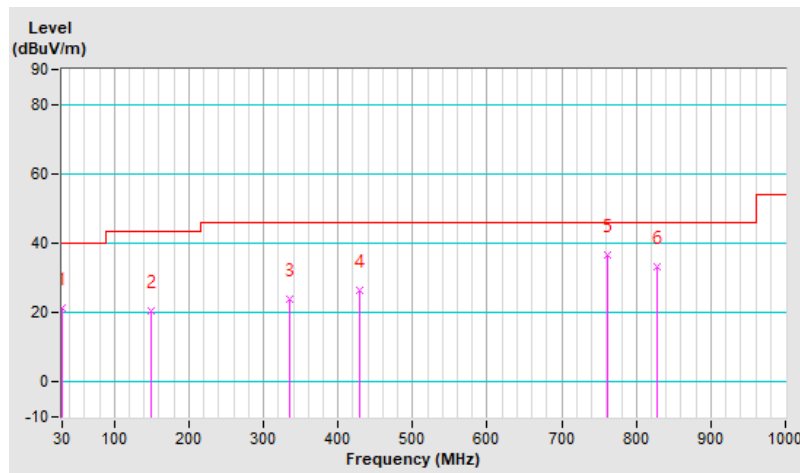


| | | | |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL | TX Channel 1 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.97 | 21.36 QP | 40.00 | -18.64 | 1.51 H | 209 | 35.99 | -14.63 |
| 2 | 148.34 | 20.43 QP | 43.50 | -23.07 | 1.01 H | 117 | 33.57 | -13.14 |
| 3 | 334.58 | 23.80 QP | 46.00 | -22.20 | 1.01 H | 193 | 35.52 | -11.72 |
| 4 | 428.67 | 26.32 QP | 46.00 | -19.68 | 1.51 H | 178 | 35.76 | -9.44 |
| 5 | 762.35 | 36.61 QP | 46.00 | -9.39 | 1.01 H | 18 | 39.36 | -2.75 |
| 6 | 827.34 | 33.20 QP | 46.00 | -12.80 | 1.01 H | 219 | 35.31 | -2.11 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



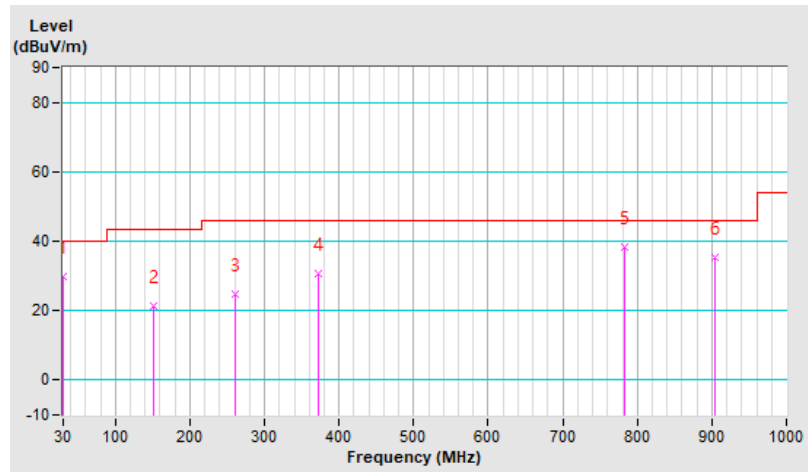
| | | | |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL | TX Channel 1 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 30.00 | 29.64 QP | 40.00 | -10.36 | 1.49 V | 193 | 44.08 | -14.44 |
| 2 | 152.22 | 21.25 QP | 43.50 | -22.25 | 1.99 V | 5 | 34.29 | -13.04 |
| 3 | 259.89 | 24.91 QP | 46.00 | -21.09 | 1.00 V | 347 | 39.15 | -14.24 |
| 4 | 371.44 | 30.63 QP | 46.00 | -15.37 | 1.00 V | 262 | 41.68 | -11.05 |
| 5 | 783.69 | 38.14 QP | 46.00 | -7.86 | 1.00 V | 256 | 40.74 | -2.60 |
| 6 | 903.97 | 35.43 QP | 46.00 | -10.57 | 1.49 V | 299 | 36.74 | -1.31 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

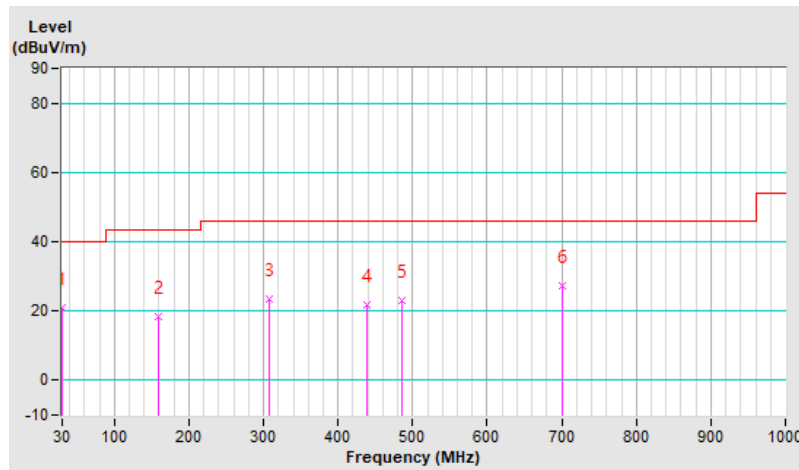


| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 12 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.00 | 20.78 QP | 40.00 | -19.22 | 2.00 H | 127 | 35.22 | -14.44 |
| 2 | 159.01 | 18.52 QP | 43.50 | -24.98 | 1.00 H | 113 | 31.49 | -12.97 |
| 3 | 307.42 | 23.40 QP | 46.00 | -22.60 | 1.50 H | 3 | 35.88 | -12.48 |
| 4 | 439.34 | 21.58 QP | 46.00 | -24.42 | 1.00 H | 80 | 30.56 | -8.98 |
| 5 | 484.93 | 23.17 QP | 46.00 | -22.83 | 1.50 H | 275 | 31.30 | -8.13 |
| 6 | 700.27 | 27.26 QP | 46.00 | -18.74 | 1.00 H | 332 | 31.27 | -4.01 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



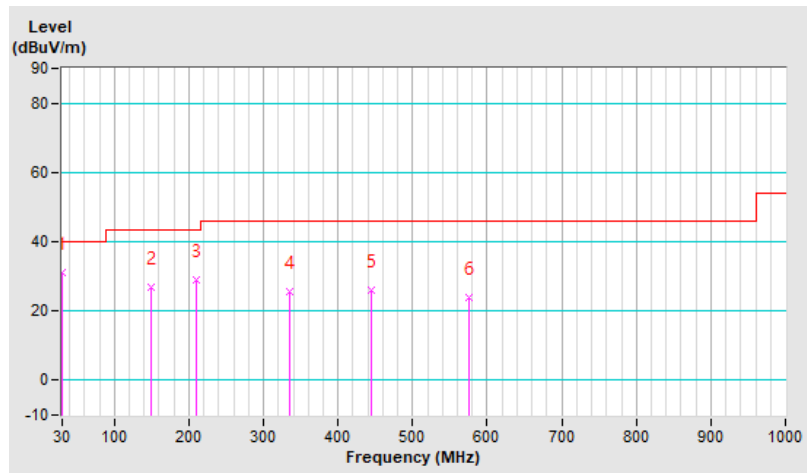
| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 12 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 30.00 | 31.16 QP | 40.00 | -8.84 | 1.00 V | 277 | 45.60 | -14.44 |
| 2 | 148.34 | 26.80 QP | 43.50 | -16.70 | 1.00 V | 104 | 39.94 | -13.14 |
| 3 | 209.45 | 28.98 QP | 43.50 | -14.52 | 1.00 V | 108 | 45.87 | -16.89 |
| 4 | 334.58 | 25.45 QP | 46.00 | -20.55 | 2.00 V | 156 | 37.17 | -11.72 |
| 5 | 445.16 | 25.96 QP | 46.00 | -20.04 | 1.50 V | 111 | 34.78 | -8.82 |
| 6 | 576.11 | 23.86 QP | 46.00 | -22.14 | 1.00 V | 307 | 30.21 | -6.35 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

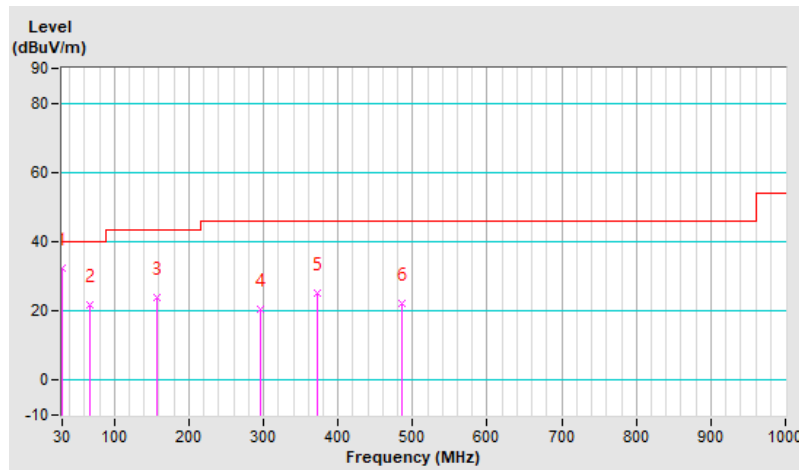


| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 23 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.00 | 32.20 QP | 40.00 | -7.80 | 2.00 H | 296 | 46.60 | -14.40 |
| 2 | 67.83 | 21.80 QP | 40.00 | -18.20 | 1.00 H | 182 | 37.00 | -15.20 |
| 3 | 157.07 | 24.10 QP | 43.50 | -19.40 | 2.00 H | 202 | 37.00 | -12.90 |
| 4 | 296.75 | 20.40 QP | 46.00 | -25.60 | 1.00 H | 124 | 33.10 | -12.70 |
| 5 | 371.44 | 25.20 QP | 46.00 | -20.80 | 1.50 H | 253 | 36.20 | -11.00 |
| 6 | 484.93 | 22.20 QP | 46.00 | -23.80 | 1.00 H | 2 | 30.30 | -8.10 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



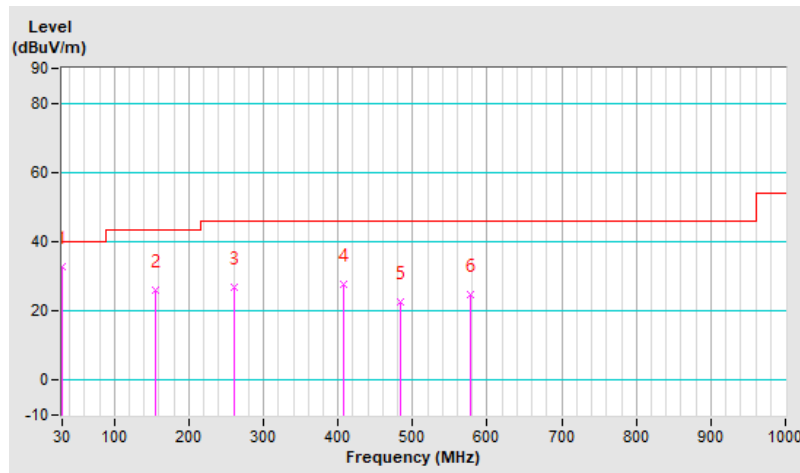
| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 23 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | A | | |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 30.00 | 32.80 QP | 40.00 | -7.20 | 2.00 V | 242 | 47.20 | -14.40 |
| 2 | 155.13 | 25.90 QP | 43.50 | -17.60 | 1.00 V | 230 | 38.90 | -13.00 |
| 3 | 259.89 | 27.00 QP | 46.00 | -19.00 | 1.00 V | 197 | 41.20 | -14.20 |
| 4 | 408.30 | 27.90 QP | 46.00 | -18.10 | 1.50 V | 273 | 38.00 | -10.10 |
| 5 | 482.99 | 22.70 QP | 46.00 | -23.30 | 1.50 V | 128 | 30.90 | -8.20 |
| 6 | 578.05 | 24.90 QP | 46.00 | -21.10 | 1.00 V | 220 | 31.10 | -6.20 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

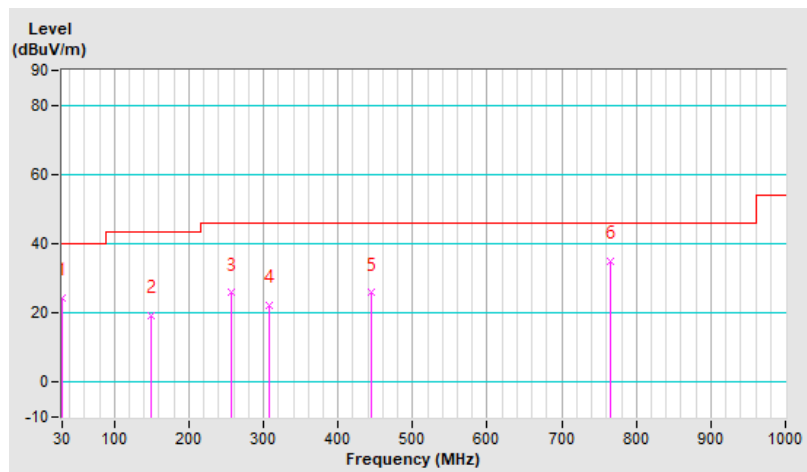


| | | | |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL | TX Channel 1 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.97 | 24.2 QP | 40.0 | -15.8 | 1.51 H | 2 | 38.8 | -14.6 |
| 2 | 148.34 | 19.1 QP | 43.5 | -24.4 | 1.51 H | 2 | 32.3 | -13.2 |
| 3 | 256.01 | 25.8 QP | 46.0 | -20.2 | 2.00 H | 98 | 40.3 | -14.5 |
| 4 | 307.42 | 22.2 QP | 46.0 | -23.8 | 1.01 H | 18 | 34.6 | -12.4 |
| 5 | 445.16 | 25.8 QP | 46.0 | -20.2 | 2.00 H | 120 | 34.7 | -8.9 |
| 6 | 765.26 | 35.1 QP | 46.0 | -10.9 | 2.00 H | 240 | 37.8 | -2.7 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

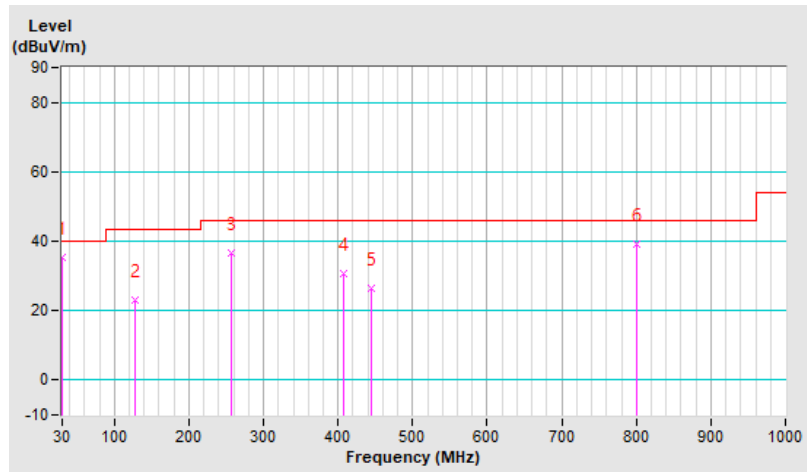


| | | | |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL | TX Channel 1 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.97 | 35.3 QP | 40.0 | -4.7 | 2.00 V | 42 | 49.9 | -14.6 |
| 2 | 127.97 | 22.9 QP | 43.5 | -20.6 | 1.00 V | 209 | 37.5 | -14.6 |
| 3 | 256.01 | 36.4 QP | 46.0 | -9.6 | 1.50 V | 24 | 50.9 | -14.5 |
| 4 | 408.30 | 30.7 QP | 46.0 | -15.3 | 1.00 V | 299 | 40.8 | -10.1 |
| 5 | 445.16 | 26.5 QP | 46.0 | -19.5 | 1.50 V | 192 | 35.4 | -8.9 |
| 6 | 800.18 | 39.0 QP | 46.0 | -7.0 | 1.99 V | 102 | 41.5 | -2.5 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

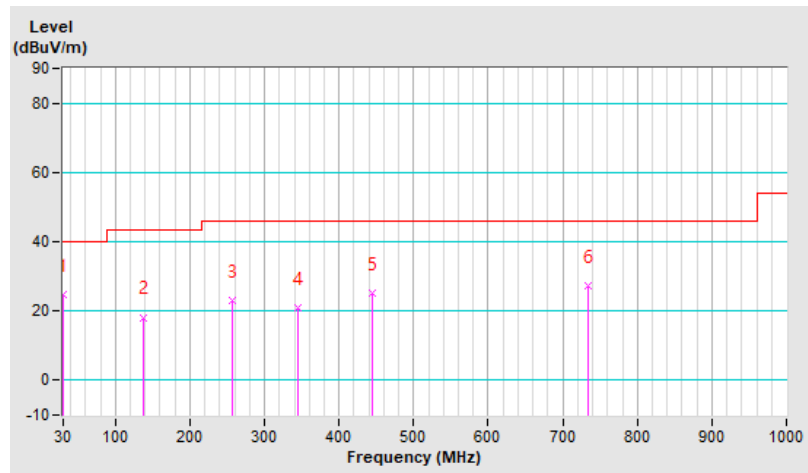


| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 12 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.97 | 24.8 QP | 40.0 | -15.2 | 2.00 H | 116 | 39.4 | -14.6 |
| 2 | 137.67 | 18.2 QP | 43.5 | -25.3 | 1.00 H | 77 | 31.9 | -13.7 |
| 3 | 256.01 | 22.9 QP | 46.0 | -23.1 | 1.00 H | 71 | 37.4 | -14.5 |
| 4 | 345.25 | 21.1 QP | 46.0 | -24.9 | 1.50 H | 18 | 32.9 | -11.8 |
| 5 | 445.16 | 25.3 QP | 46.0 | -20.7 | 1.50 H | 129 | 34.2 | -8.9 |
| 6 | 733.25 | 27.3 QP | 46.0 | -18.7 | 1.00 H | 192 | 30.6 | -3.3 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



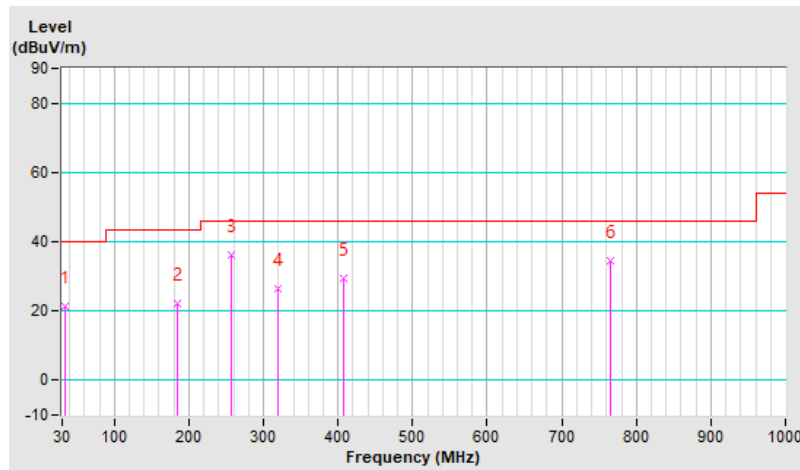
| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 12 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 34.85 | 21.5 QP | 40.0 | -18.5 | 2.00 V | 118 | 35.7 | -14.2 |
| 2 | 185.20 | 22.2 QP | 43.5 | -21.3 | 1.00 V | 98 | 37.7 | -15.5 |
| 3 | 256.01 | 36.2 QP | 46.0 | -9.8 | 1.00 V | 21 | 50.7 | -14.5 |
| 4 | 320.03 | 26.3 QP | 46.0 | -19.7 | 1.50 V | 44 | 38.3 | -12.0 |
| 5 | 408.30 | 29.6 QP | 46.0 | -16.4 | 1.00 V | 128 | 39.7 | -10.1 |
| 6 | 766.23 | 34.7 QP | 46.0 | -11.3 | 1.00 V | 212 | 37.4 | -2.7 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

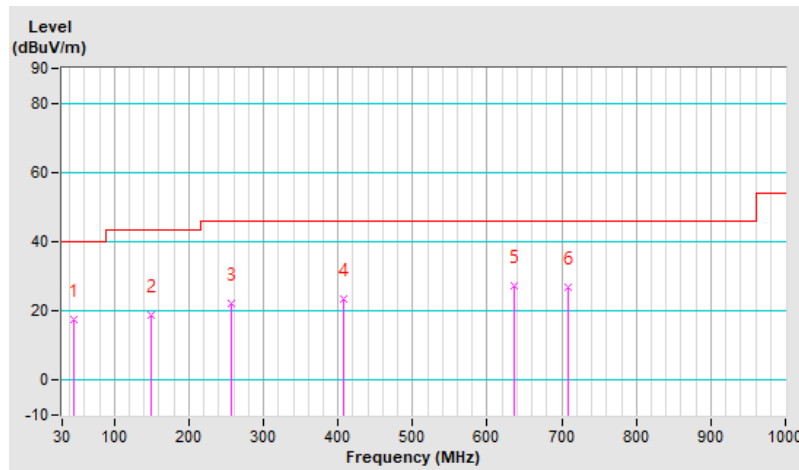


| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 23 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 45.52 | 17.4 QP | 40.0 | -22.6 | 2.00 H | 123 | 30.6 | -13.2 |
| 2 | 148.34 | 18.9 QP | 43.5 | -24.6 | 1.00 H | 51 | 32.1 | -13.2 |
| 3 | 256.01 | 22.1 QP | 46.0 | -23.9 | 1.00 H | 100 | 36.6 | -14.5 |
| 4 | 408.30 | 23.5 QP | 46.0 | -22.5 | 1.00 H | 221 | 33.6 | -10.1 |
| 5 | 636.25 | 27.4 QP | 46.0 | -18.6 | 1.50 H | 200 | 32.4 | -5.0 |
| 6 | 708.03 | 26.8 QP | 46.0 | -19.2 | 1.00 H | 12 | 30.7 | -3.9 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



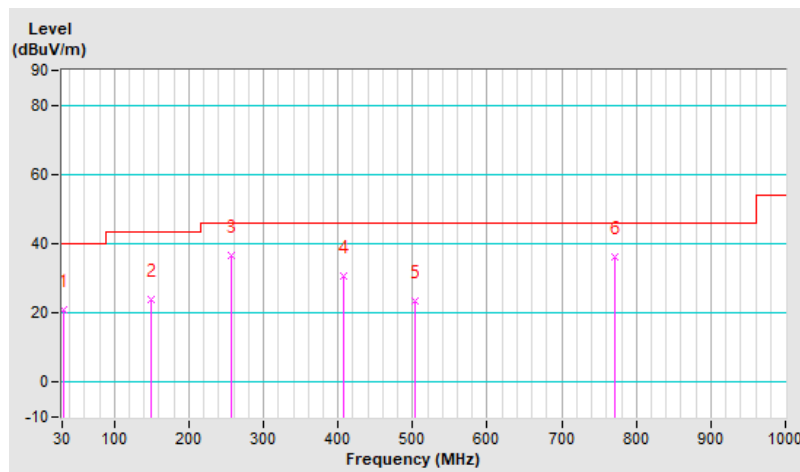
| | | | |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL | TX Channel 23 | DATA RATE | 500kbps |
| FREQUENCY RANGE | 9kHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
| TEST MODE | B | | |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 31.94 | 20.9 QP | 40.0 | -19.1 | 2.00 V | 171 | 35.3 | -14.4 |
| 2 | 148.34 | 24.1 QP | 43.5 | -19.4 | 1.00 V | 2 | 37.3 | -13.2 |
| 3 | 256.01 | 36.8 QP | 46.0 | -9.2 | 2.00 V | 20 | 51.3 | -14.5 |
| 4 | 408.30 | 30.7 QP | 46.0 | -15.3 | 1.00 V | 297 | 40.8 | -10.1 |
| 5 | 502.39 | 23.3 QP | 46.0 | -22.7 | 1.00 V | 250 | 31.2 | -7.9 |
| 6 | 772.05 | 36.2 QP | 46.0 | -9.8 | 1.50 V | 117 | 38.9 | -2.7 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

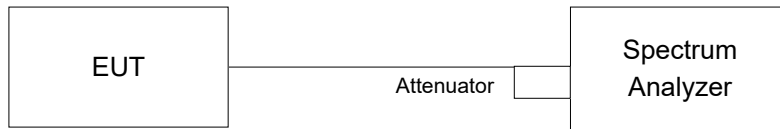


4.2 6dB Bandwidth Measurement

4.2.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.2.2 Test Setup



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

- Set resolution bandwidth (RBW) = 100kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.2.5 Deviation from Test Standard

No deviation.

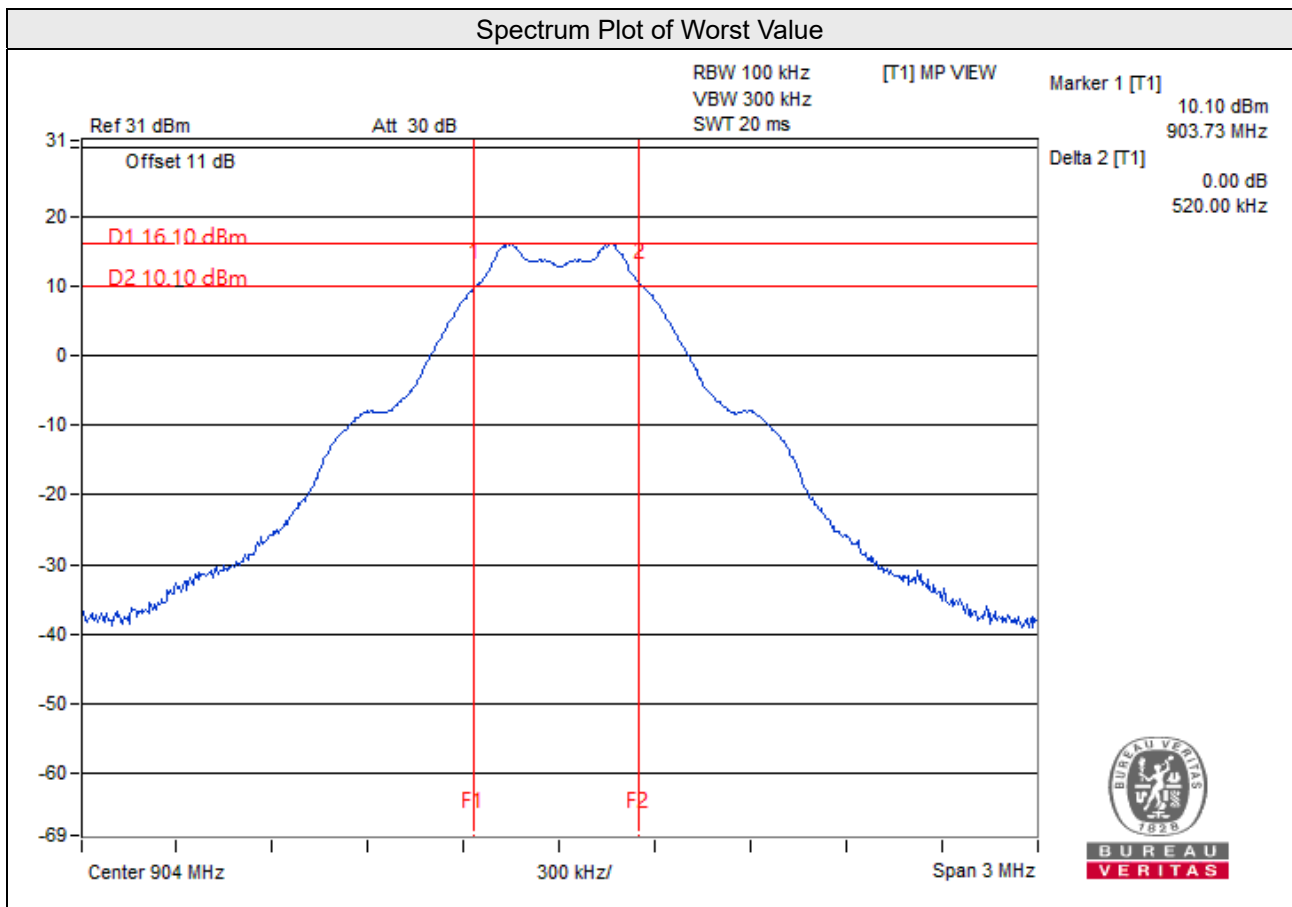
4.2.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.2.7 Test Result

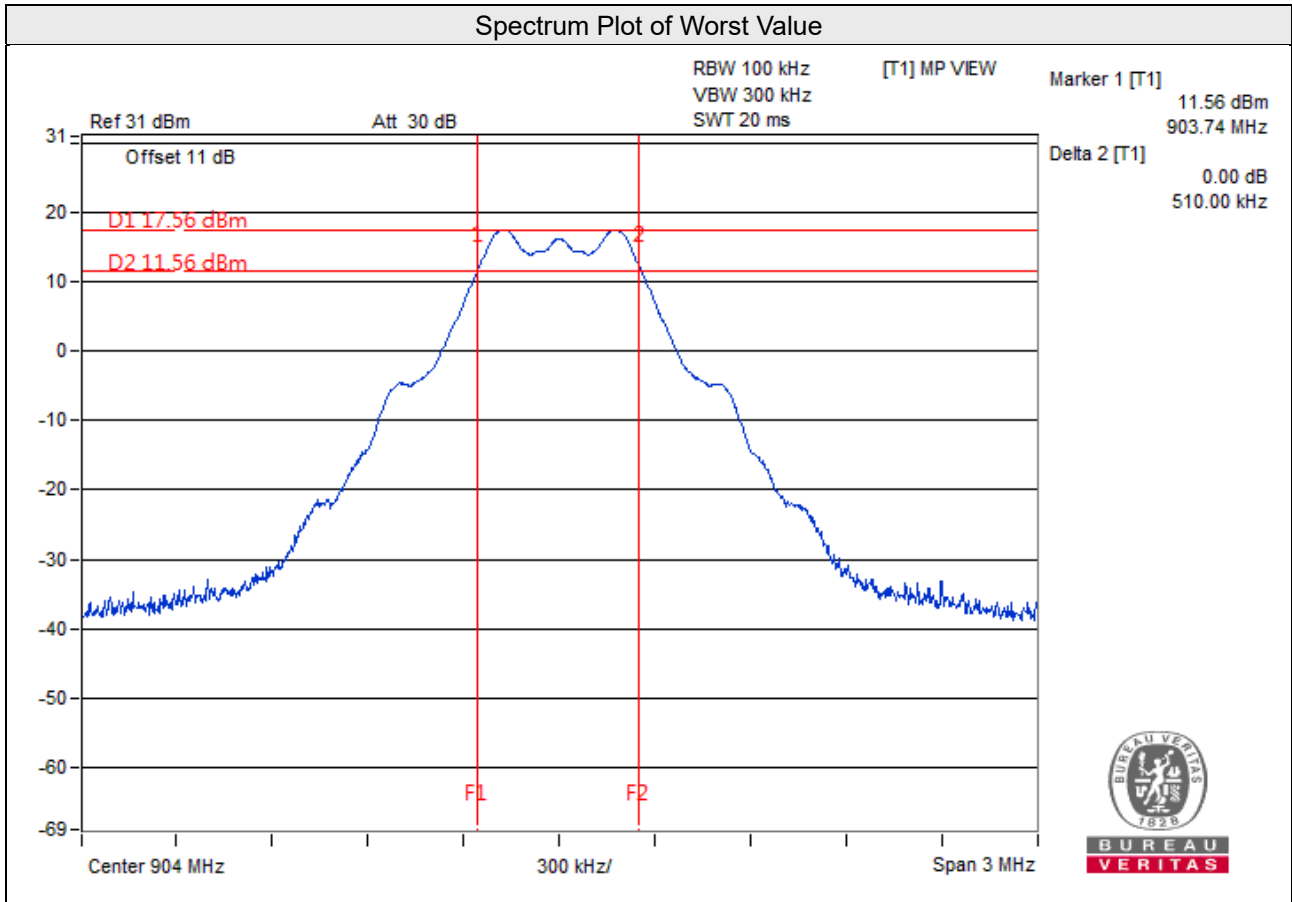
Data Rate: 80kbps

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 1 | 904 | 0.52 | 0.5 | Pass |
| 12 | 915 | 0.52 | 0.5 | Pass |
| 23 | 926 | 0.52 | 0.5 | Pass |



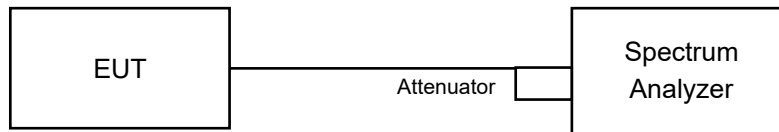
Data Rate: 500kbps

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 1 | 904 | 0.51 | 0.5 | Pass |
| 12 | 915 | 0.51 | 0.5 | Pass |
| 23 | 926 | 0.52 | 0.5 | Pass |



4.3 Occupied Bandwidth Measurement

4.3.1 Test Setup



4.3.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.3.4 Deviation from Test Standard

No deviation.

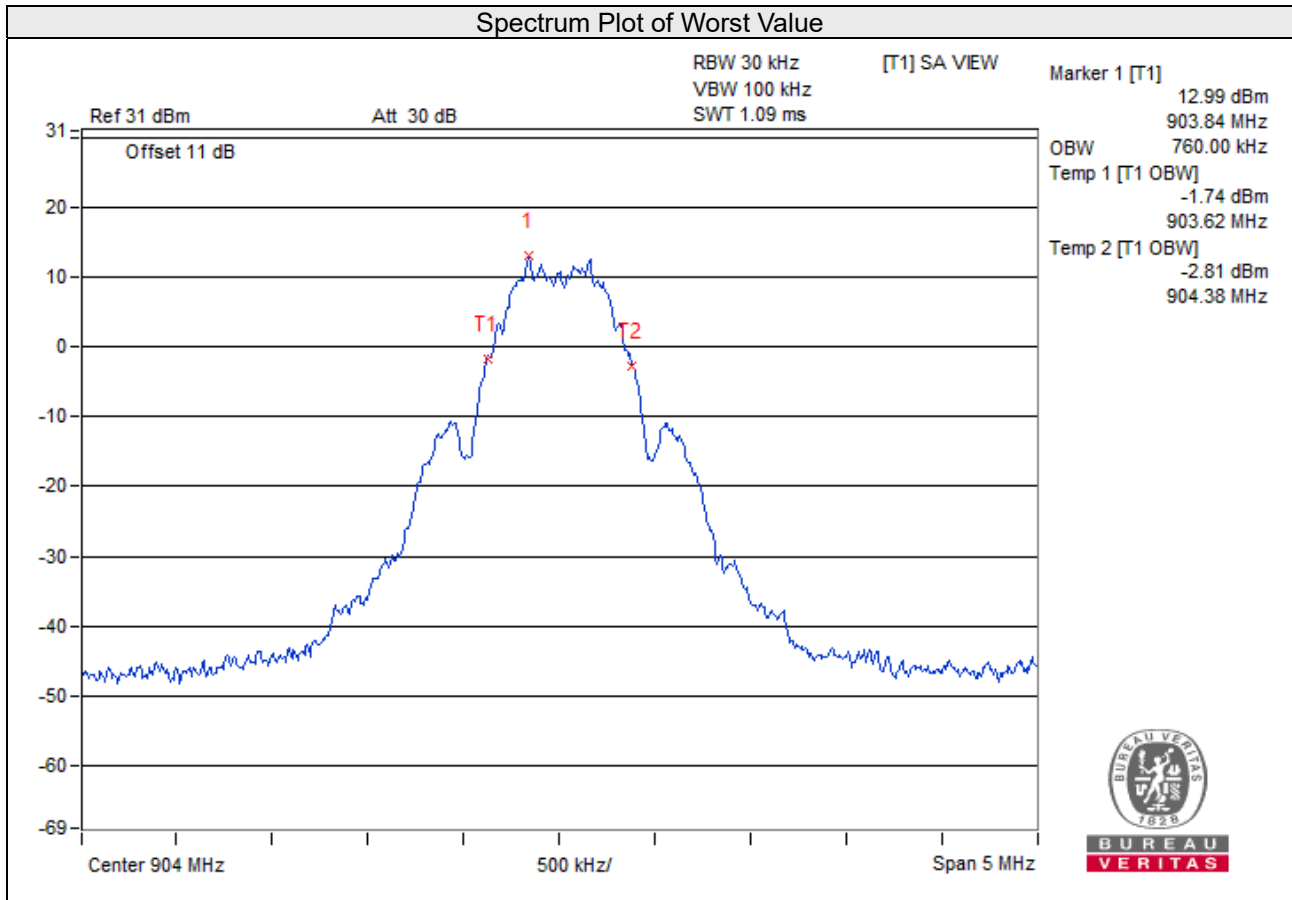
4.3.5 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.6 Test Results

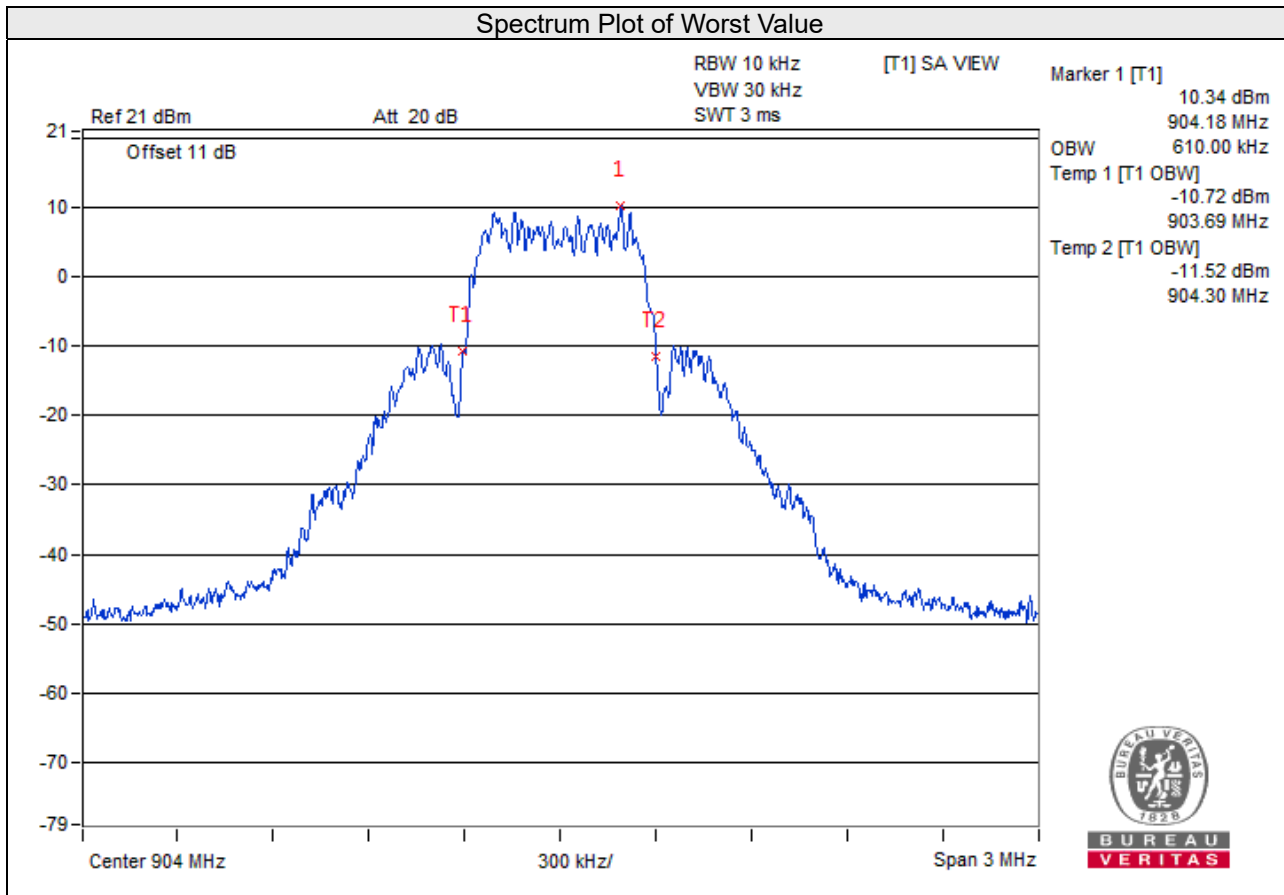
Data Rate: 80kbps

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 1 | 904 | 0.76 |
| 12 | 915 | 0.76 |
| 23 | 926 | 0.76 |



Data Rate: 500kbps

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 1 | 904 | 0.61 |
| 12 | 915 | 0.61 |
| 23 | 926 | 0.61 |

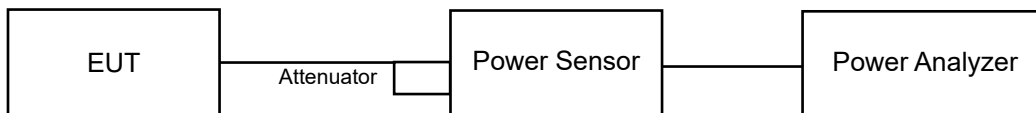


4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

For Peak Power

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

For Average Power

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as item 4.2.6.

4.4.7 Test Results

Data Rate: 80kbps

For Peak Power

| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass/Fail |
|---------|-----------------|-----------------|------------------|-------------|-----------|
| 1 | 904 | 49.774 | 16.97 | 30.00 | Pass |
| 12 | 915 | 49.545 | 16.95 | 30.00 | Pass |
| 23 | 926 | 49.431 | 16.94 | 30.00 | Pass |

For Average Power

| Channel | Frequency (MHz) | Average Power (mW) | Average Power (dBm) |
|---------|-----------------|--------------------|---------------------|
| 1 | 904 | 48.865 | 16.89 |
| 12 | 915 | 48.978 | 16.90 |
| 23 | 926 | 48.865 | 16.89 |

Data Rate: 500kbps

For Peak Power

| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass/Fail |
|---------|-----------------|-----------------|------------------|-------------|-----------|
| 1 | 904 | 49.431 | 16.94 | 30.00 | Pass |
| 12 | 915 | 49.431 | 16.94 | 30.00 | Pass |
| 23 | 926 | 48.204 | 16.92 | 30.00 | Pass |

For Average Power

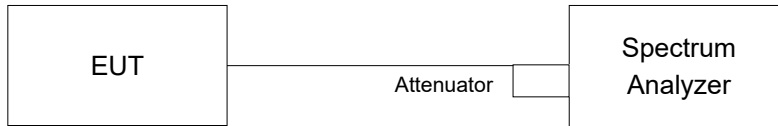
| Channel | Frequency (MHz) | Average Power (mW) | Average Power (dBm) |
|---------|-----------------|--------------------|---------------------|
| 1 | 904 | 48.865 | 16.89 |
| 12 | 915 | 48.978 | 16.90 |
| 23 | 926 | 48.753 | 16.88 |

4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm per 3kHz.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

4.5.5 Deviation from Test Standard

No deviation.

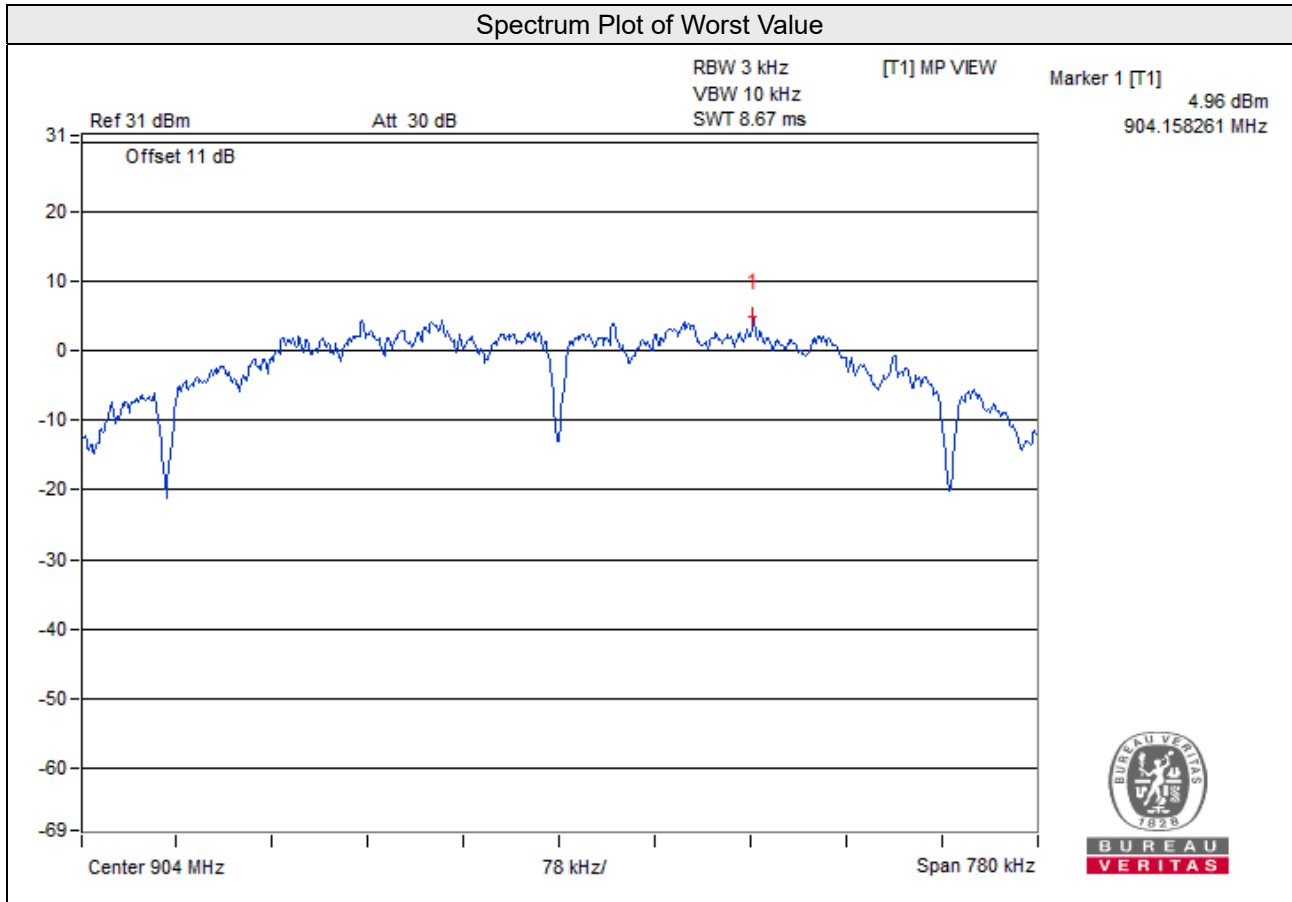
4.5.6 EUT Operating Condition

Same as item 4.2.6

4.5.7 Test Results

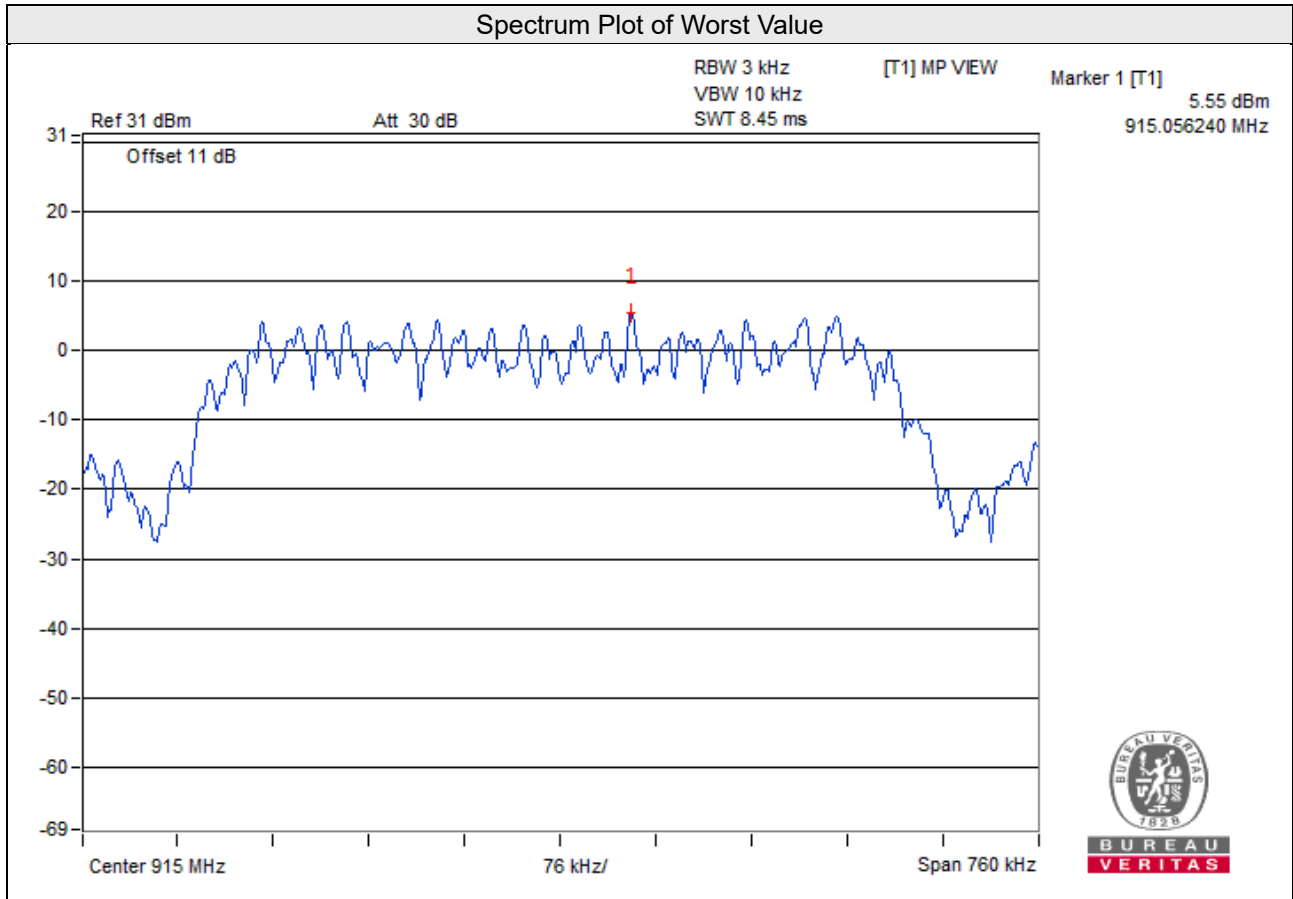
Data Rate: 80kbps

| Channel | Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Pass / Fail |
|---------|-------------|----------------|------------------|-------------|
| 1 | 904 | 4.96 | 8.00 | Pass |
| 12 | 915 | 4.86 | 8.00 | Pass |
| 23 | 926 | 4.85 | 8.00 | Pass |



Data Rate: 500kbps

| Channel | Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Pass / Fail |
|---------|-------------|----------------|------------------|-------------|
| 1 | 904 | 5.34 | 8.00 | Pass |
| 12 | 915 | 5.55 | 8.00 | Pass |
| 23 | 926 | 5.33 | 8.00 | Pass |

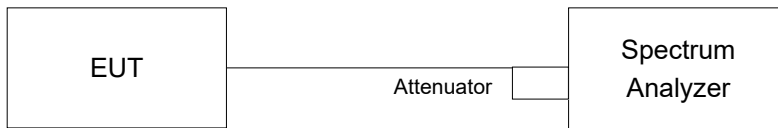


4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below 20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

MEASUREMENT PROCEDURE REF

- Set the RBW = 100 kHz.
- Set the VBW \geq 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

- Set RBW = 100 kHz.
- Set VBW \geq 300 kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Same as item 4.2.6

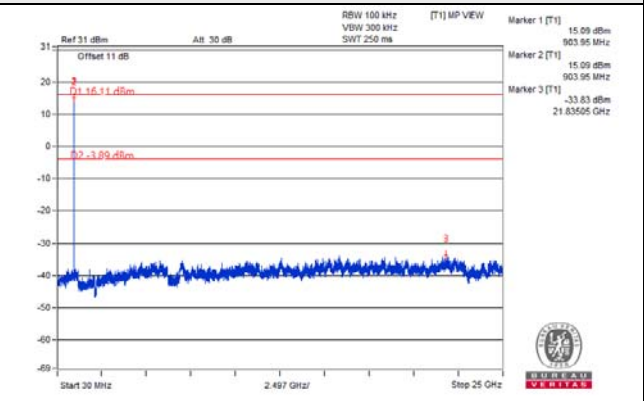
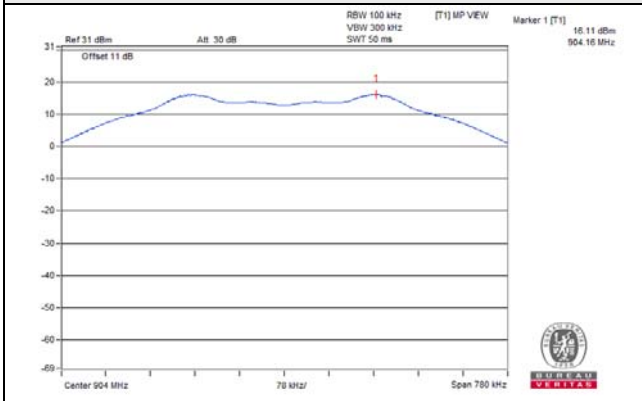
4.6.7 Test Results

The conducted emission test is performed on each TX port of operating mode without summing or adding 10log (N) since the limit is relative emission limit.

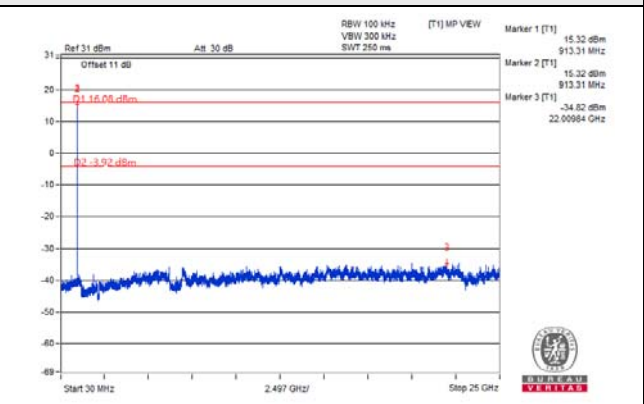
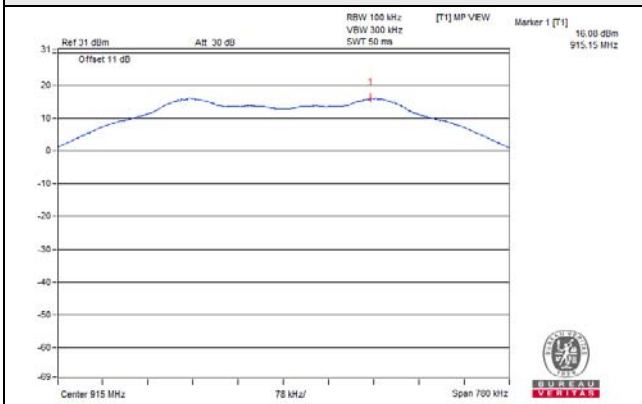
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

Data Rate: 80kbps

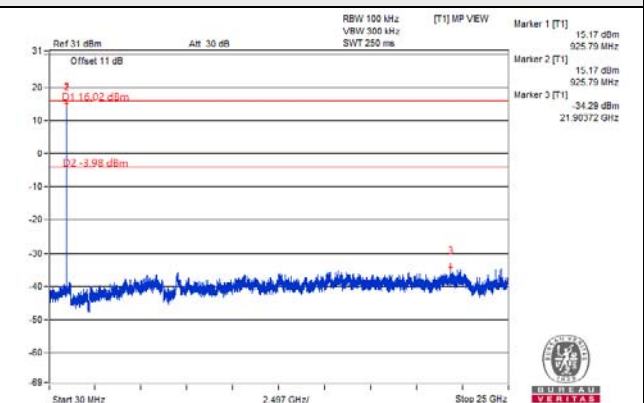
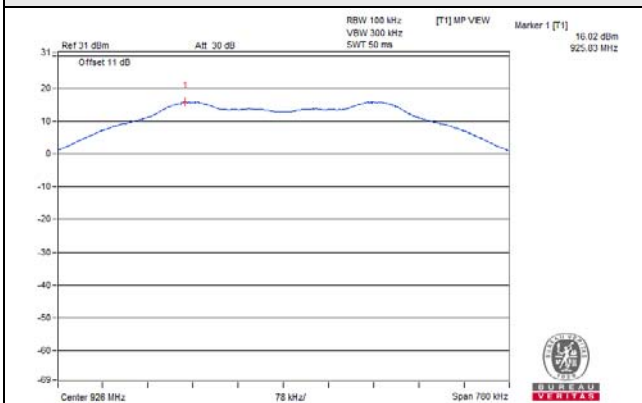
CH 1



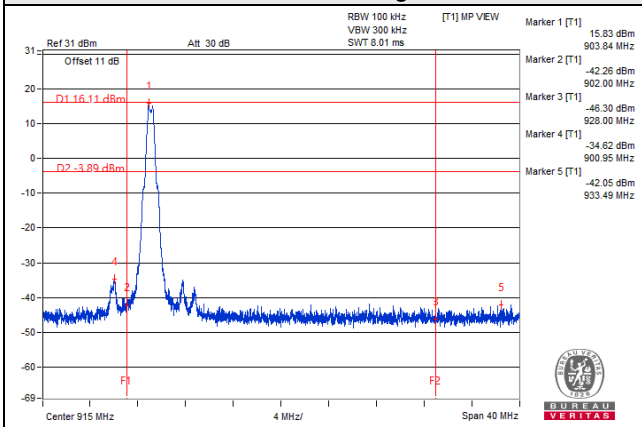
CH 12



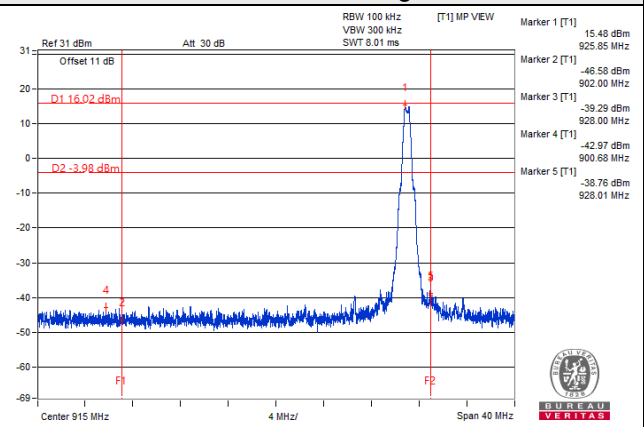
CH 23



CH 1 Band edge

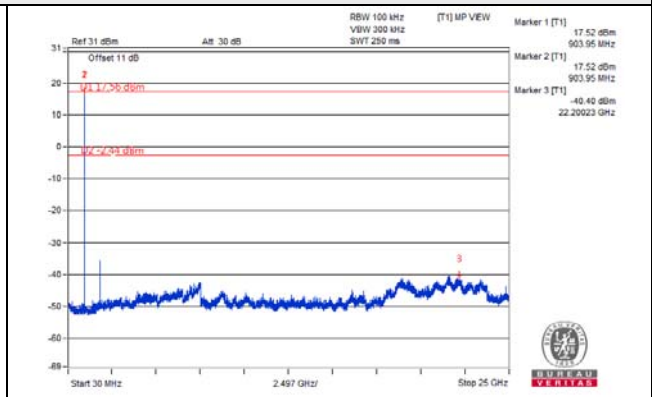
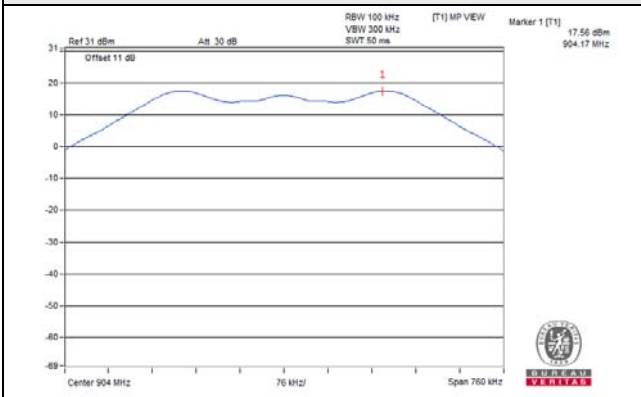


CH 23 Band edge

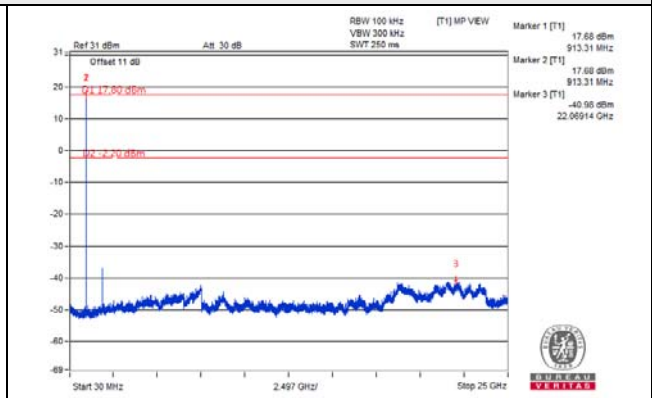
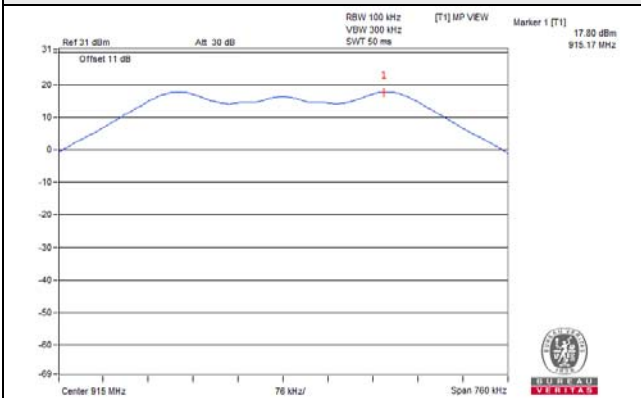


Data Rate: 500kbps

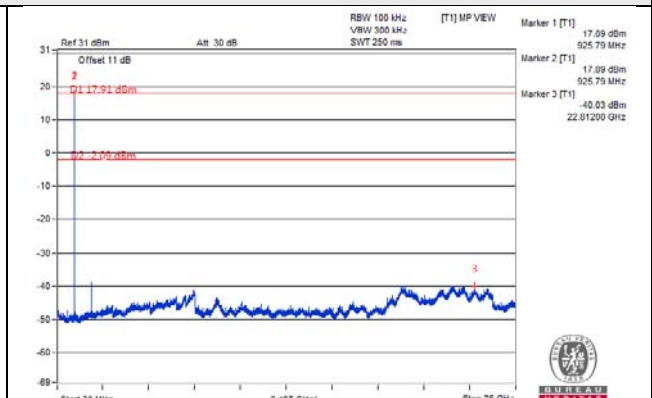
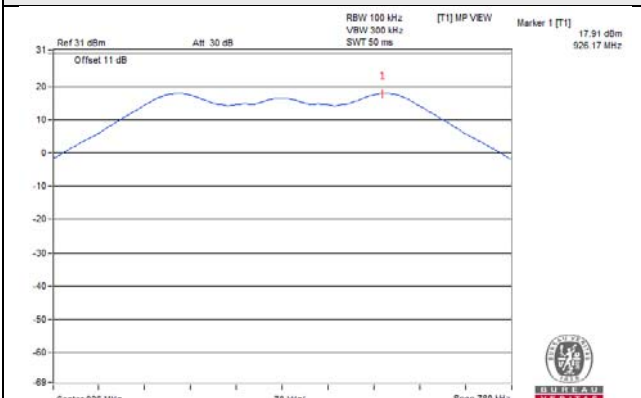
CH 1



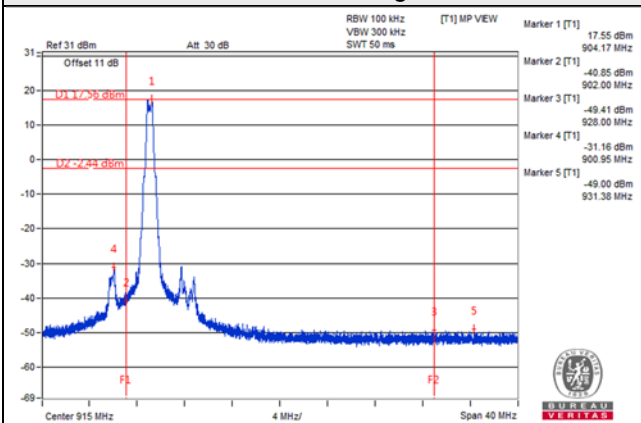
CH 12



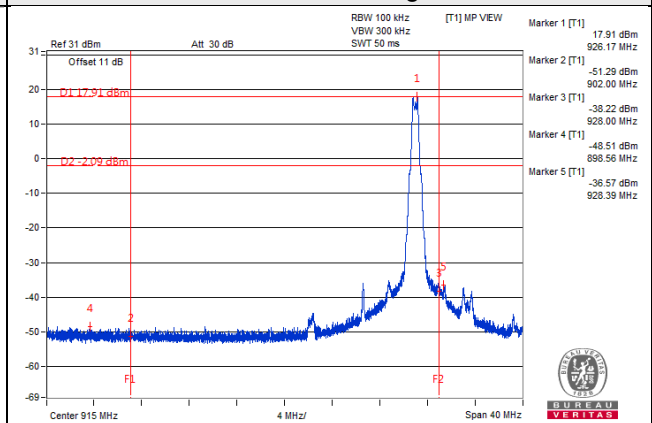
CH 23



CH 1 Band edge



CH 23 Band edge



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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