



TEST REPORT

| | |
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| Applicant: | FEIYUE TOYS FACTORY |
| Address: | CHENGHUA STREET, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, China. |

| | |
|-------------------------------------|---|
| Manufacturer or Supplier | FEIYUE TOYS FACTORY |
| Address | CHENGHUA STREET, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, China |
| Product: | HIGH SPEED MODEL CAR |
| Brand Name: | N/A |
| Model: | FYGS0001TX |
| Additional Model & Model Difference | FYGS0001RX; See items 2.1 |
| Date of tests: | Nov. 05, 2015 ~ Nov. 24, 2015 |

the tests have been carried out according to the requirements of the following standard:

FCC Part 15, Subpart C, Section 15.249(2014-10)

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| | |
|---|--|
| Tested by Heise Chen Project Engineer / EMC Department | Approved by Chris Chen Assistant Manager / EMC Department |
| | |

Date: Nov. 24, 2015

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**BUREAU
VERITAS** Test Report No.: RF150914N082

RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|--------------|-------------------|---------------|
| RF150914N082 | Original release | Nov. 24, 2015 |



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249) | | | |
|---|------------------------------|--------|------------------------------|
| STANDARD SECTION | TEST TYPE AND LIMIT | RESULT | REMARK |
| §15.203 | Antenna Requirement | PASS | No antenna connector is used |
| §15.207 (a) | Conducted Emission | N/A | EUT is powered by battery |
| §15.205 | Restricted Band of Operation | PASS | Compliant |
| §15.209 §15.249(a) | Radiated Emission | PASS | Compliant |
| §15.215(c) | 20dB Bandwidth Test | PASS | Compliant |

2 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 | UNCERTAINTY |
|--------------------|---------------|-------------|
| Radiated emissions | 9KHz ~ 30MHz | 2.74dB |
| | 30MHz ~ 1GHz | 3.55dB |
| | 1GHz ~ 18GHz | 4.84dB |
| | 18GHz ~ 40GHz | 4.84dB |

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



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|-----------------------|-------------------------------|
| PRODUCT | HIGH SPEED MODEL CAR |
| MODEL NO. | FYGS0001TX |
| ADDITIONAL MODELS | FYGS0001RX |
| FCC ID | 2AGO-A-FY20151130 |
| NOMINAL VOLTAGE | DC 6V(1.5V*AA*4) From Battery |
| MODULATION TECHNOLOGY | GFSK |
| OPERATING FREQUENCY | 2412MHz-2475MHz |
| ANTENNA TYPE | Wire Antenna, 0dBi Gain |
| I/O PORTS | Refer to user's manual |
| CABLE SUPPLIED | N/A |

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 150914N082) for detailed product photo.
4. Additional model FYGS0001RX is identical with the test model FYGS0001TX except the model no. for trading purpose.



3.2 DESCRIPTION OF TEST MODES

| EUT CONFIGURE MODE | APPLICABLE TO | | | | DESCRIPTION |
|-----------------------|---------------|-------|-----|----|-------------------------------|
| | RE<1G | RE≥1G | PLC | BW | |
| - | √ | √ | - | √ | Powered by DC 6V from battery |

Where **RE<1G:** Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **RE≥1G:** Radiated Emission above 1GHz
BW: 20db bandwidth

Following channel(s) was (were) selected for the test as listed below.

| TESTED CHANNEL | TESTED FREQUENCY |
|----------------|------------------|
| Low | 2412 MHz |
| Middle | 2445 MHz |
| High | 2475 MHz |

Note: The more detailed channel, please refer to the product specifications



**BUREAU
VERITAS** Test Report No.: RF150914N082

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C, Section 15.249(2014-10)

ANSI C63.10-2013

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

NOTE: It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B Verification. The test report has been issued separately.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without any other necessary accessories or support units



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

| 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 |

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental Frequency | Field strength of fundamental (milli-volts/meter) | Field strength of harmonics (micro-volts/meter) |
|--------------------------|---|---|
| 902-928 MHz | 50 | 500 |
| 2400-2483.5 MHz | 50 | 500 |
| 5725-5875 MHz | 50 | 500 |
| 24.0-24.25 GHz | 250 | 2500 |

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB_BV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), 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

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|------------------------------|---------------|--------------------------|-------------|--------------|--------------|
| EMI Test Receiver | Rohde&Schwarz | ESR7 | 101494 | Apr. 27,15 | Apr. 26,16 |
| Signal and Spectrum Analyzer | Rohde&Schwarz | FSV40 | 101094 | Apr. 23,15 | Apr. 22,16 |
| Bilog Antenna | Teseq | CBL 6111D | 30643 | Jul. 16, 15 | Jul. 15, 16 |
| Horn Antenna | ETS-Lindgren | 3117 | 00062558 | May 30,14 | May 29,16 |
| Amplifier (9kHz-1GHz) | SONOMA | 310D | 186955 | Mar. 04,15 | Mar. 03, 16 |
| Pre-Amplifier (0.5~18GHz) | SCHWARZBECK | BBV 9718 | 9718-266 | Mar 26,14 | Mar 25,16 |
| GPS Generator+Antenna | TOJOIN | GNSS-5000A | E1-010119 | Aug. 08, 15 | Aug. 07, 16 |
| 3m Semi-anechoic Chamber | ETS-LINDGREN | 9m*6m*6m | NSEMC003 | April. 19,14 | April. 18,16 |
| Test Software | ADT | ADT_Radiated_V7.6.15.9.2 | N/A | N/A | N/A |
| Horn Antenna (15GHz-40GHz) | SCHWARZBECK | BBHA 9170 | BBHA9170147 | Jan. 21,14 | Jan. 20,17 |
| Pre-Amplifier (18GHz-40GHz) | EMCI | EMC 184045 | 980102 | Jan. 21,14 | Jan. 20,17 |

NOTE:

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 494399.



4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meters semi-anechoic chamber. 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 antenna is a broadband antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

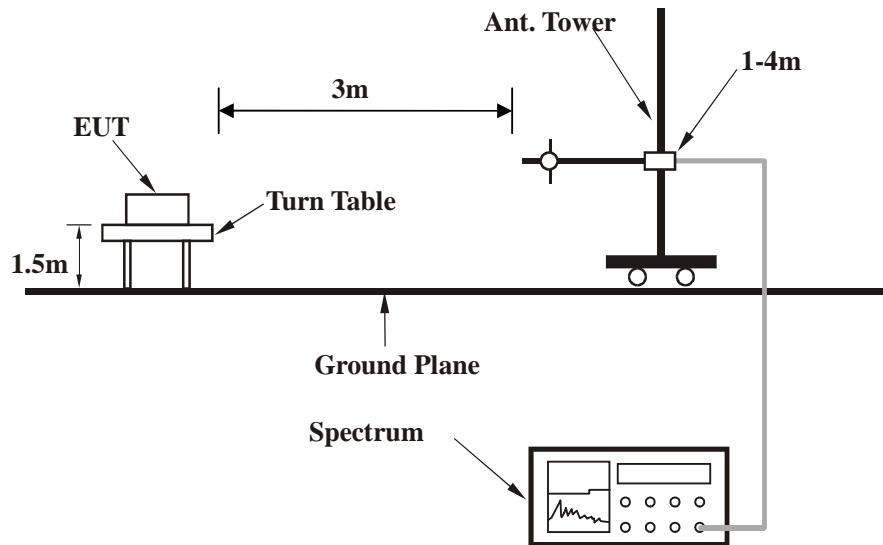
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file Test Setup Photo.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



4.1.5 TEST SETUP



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

4.1.6 EUT OPERATING CONDITIONS

- Turned on the power of all equipment.
- EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



4.1.7 TEST RESULTS

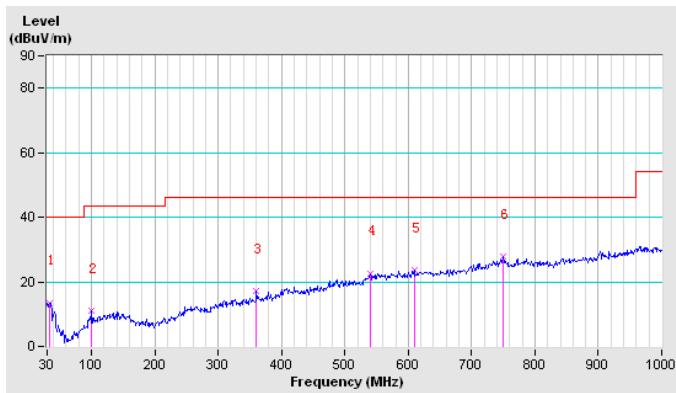
BELOW 1GHz WORST-CASE DATA

| | | | |
|-----------------|-------------------|----------------------|-----------------|
| CHANNEL | TX Middle Channel | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 30MHz ~ 1GHz | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|---------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 34.22 | 13.50 | 40.00 | -26.50 | 100 | 0 | 27.87 | -14.37 |
| 2 | 100.29 | 10.99 | 43.50 | -32.51 | 100 | 0 | 31.07 | -20.08 |
| 3 | 360.36 | 17.04 | 46.00 | -28.96 | 100 | 0 | 30.12 | -13.08 |
| 4 | 540.30 | 22.65 | 46.00 | -23.35 | 100 | 0 | 28.96 | -6.31 |
| 5 | 609.19 | 23.51 | 46.00 | -22.49 | 100 | 0 | 29.24 | -5.73 |
| 6 | 749.77 | 27.73 | 46.00 | -18.27 | 100 | 0 | 30.17 | -2.44 |

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



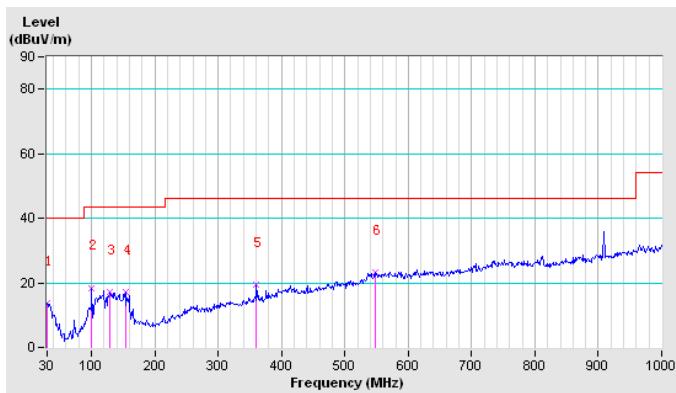


| | | | |
|-----------------|-------------------|----------------------|-----------------|
| CHANNEL | TX Middle Channel | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 30MHz ~ 1GHz | | |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|---------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (cm) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.00 | 13.62 | 40.00 | -26.38 | 100 | 0 | 25.97 | -12.35 |
| 2 | 100.29 | 18.48 | 43.50 | -25.02 | 100 | 0 | 38.56 | -20.08 |
| 3 | 129.81 | 17.30 | 43.50 | -26.20 | 100 | 0 | 35.52 | -18.22 |
| 4 | 153.71 | 17.28 | 43.50 | -26.22 | 100 | 0 | 36.02 | -18.74 |
| 5 | 360.36 | 19.35 | 46.00 | -26.65 | 100 | 0 | 32.43 | -13.08 |
| 6 | 547.33 | 23.22 | 46.00 | -22.78 | 100 | 0 | 29.41 | -6.19 |

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





ABOVE 1GHz WORST-CASE DATA:

| | | | |
|-----------------|----------------|----------------------|--------------|
| CHANNEL | TX Low Channel | DETECTOR FUNCTION | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | 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 | 2400.00 | 50.6 PK | 74.0 | -23.4 | 1.04 H | 267 | 50.16 | 0.41 |
| 2 | 2400.00 | 30.9 AV | 54.0 | -23.1 | 1.04 H | 267 | 30.46 | 0.41 |
| 3 | 2412.00 | 93.2 PK | 114.0 | -20.8 | 1.04 H | 267 | 92.73 | 0.44 |
| 4 | 2412.00 | 62.5 AV | 94.0 | -31.5 | 1.04 H | 267 | 62.06 | 0.44 |
| 5 | 4824.00 | 63.6 PK | 74.0 | -10.4 | 1.00 H | 186 | 57.03 | 6.59 |
| 6 | 4824.00 | 48.3 AV | 54.0 | -5.7 | 1.00 H | 186 | 41.73 | 6.59 |
| 7 | 7236.00 | 56.8 PK | 74.0 | -17.2 | 1.45 H | 215 | 46.04 | 10.80 |
| 8 | 7236.00 | 43.2 AV | 54.0 | -10.8 | 1.45 H | 215 | 32.35 | 10.80 |

| 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 | 2400.00 | 50.4 PK | 74.0 | -23.6 | 1.41 V | 95 | 49.97 | 0.41 |
| 2 | 2400.00 | 32.0 AV | 54.0 | -22.0 | 1.41 V | 95 | 31.58 | 0.41 |
| 3 | 2412.00 | 91.5 PK | 114.0 | -22.5 | 1.41 V | 95 | 91.05 | 0.44 |
| 4 | 2412.00 | 62.0 AV | 94.0 | -32.0 | 1.41 V | 95 | 61.53 | 0.44 |
| 5 | 4824.00 | 67.2 PK | 74.0 | -6.8 | 1.78 V | 140 | 60.64 | 6.59 |
| 6 | 4824.00 | 50.6 AV | 54.0 | -3.4 | 1.78 V | 140 | 44.05 | 6.59 |
| 7 | 7236.00 | 57.8 PK | 74.0 | -16.2 | 1.03 V | 25 | 47.03 | 10.80 |
| 8 | 7236.00 | 43.5 AV | 54.0 | -10.5 | 1.03 V | 25 | 32.73 | 10.80 |

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



| | | | |
|-----------------|-------------------|-------------------|--------------|
| CHANNEL | TX Middle Channel | DETECTOR FUNCTION | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | 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 | 2445.00 | 94.4 PK | 114.0 | -19.6 | 1.01 H | 275 | 93.83 | 0.52 |
| 2 | 2445.00 | 63.2 AV | 94.0 | -30.8 | 1.01 H | 275 | 62.69 | 0.52 |
| 3 | 4890.00 | 64.1 PK | 74.0 | -9.9 | 1.21 H | 221 | 57.34 | 6.78 |
| 4 | 4890.00 | 48.7 AV | 54.0 | -5.3 | 1.21 H | 221 | 41.87 | 6.78 |
| 5 | 7335.00 | 57.2 PK | 74.0 | -16.8 | 1.41 H | 108 | 46.36 | 10.80 |
| 6 | 7335.00 | 45.3 AV | 54.0 | -8.7 | 1.41 H | 108 | 34.48 | 10.80 |
| 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 | 2445.00 | 95.8 PK | 114.0 | -18.2 | 1.19 V | 333 | 95.26 | 0.52 |
| 2 | 2445.00 | 64.1 AV | 94.0 | -29.9 | 1.19 V | 333 | 63.57 | 0.52 |
| 3 | 4890.00 | 67.2 PK | 74.0 | -6.8 | 1.06 V | 149 | 60.40 | 6.78 |
| 4 | 4890.00 | 50.6 AV | 54.0 | -3.4 | 1.06 V | 149 | 43.77 | 6.78 |
| 5 | 7335.00 | 57.8 PK | 74.0 | -16.2 | 1.12 V | 351 | 46.96 | 10.80 |
| 6 | 7335.00 | 44.3 AV | 54.0 | -9.7 | 1.12 V | 351 | 33.51 | 10.80 |

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



| | | | | |
|------------------------|-----------------|--------------------------|--|--------------|
| CHANNEL | TX High Channel | DETECTOR FUNCTION | | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | | 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 | 2475.00 | 95.3 PK | 114.0 | -18.7 | 1.92 H | 232 | 94.66 | 0.59 |
| 2 | 2475.00 | 63.9 AV | 94.0 | -30.1 | 1.92 H | 232 | 63.31 | 0.59 |
| 3 | 2483.50 | 56.1 PK | 74.0 | -17.9 | 1.92 H | 232 | 55.50 | 0.61 |
| 4 | 2483.50 | 42.6 AV | 54.0 | -11.4 | 1.92 H | 232 | 41.97 | 0.61 |
| 5 | 4950.00 | 64.0 PK | 74.0 | -10.0 | 1.05 H | 71 | 57.08 | 6.96 |
| 6 | 4950.00 | 49.1 AV | 54.0 | -4.9 | 1.05 H | 71 | 42.16 | 6.96 |
| 7 | 7425.00 | 56.3 PK | 74.0 | -17.7 | 1.39 H | 203 | 45.47 | 10.80 |
| 8 | 7425.00 | 43.6 AV | 54.0 | -10.4 | 1.39 H | 203 | 32.78 | 10.80 |

| 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 | 2475.00 | 94.3 PK | 114.0 | -19.7 | 1.02 V | 347 | 93.71 | 0.59 |
| 2 | 2475.00 | 63.8 AV | 94.0 | -30.2 | 1.02 V | 347 | 63.21 | 0.59 |
| 3 | 2483.50 | 56.2 PK | 74.0 | -17.8 | 1.02 V | 347 | 55.63 | 0.61 |
| 4 | 2483.50 | 42.8 AV | 54.0 | -11.3 | 1.02 V | 347 | 42.14 | 0.61 |
| 5 | 4950.00 | 64.6 PK | 74.0 | -9.4 | 1.18 V | 274 | 57.66 | 6.96 |
| 6 | 4950.00 | 50.0 AV | 54.0 | -4.0 | 1.18 V | 274 | 43.02 | 6.96 |
| 7 | 7425.00 | 56.9 PK | 74.0 | -17.1 | 1.52 V | 30 | 46.12 | 10.80 |
| 8 | 7425.00 | 45.3 AV | 54.0 | -8.7 | 1.52 V | 30 | 34.51 | 10.80 |

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



4.2 20dB BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.2.2 TEST INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|----------------------------------|-----------------|-----------|------------|-------------|-------------|
| Power Sensor | Keysight | U2021XA | MY55060016 | Feb. 18,15 | Feb. 17,16 |
| Power Sensor | Keysight | U2021XA | MY55060018 | Feb. 18,15 | Feb. 17,16 |
| Humid & Temp Programmable Tester | Haida | HD-2257 | 110807201 | Sep.07,15 | Sep. 06,16 |
| Oscilloscope | Agilent | DSO9254A | MY51260160 | Sep.07,15 | Sep. 06,16 |
| Signal Analyzer | Rohde & Schwarz | FSV7 | 102331 | Sep.07,15 | Sep. 06,16 |
| Signal Generator | Agilent | N5183A | MY50140980 | Sep.07,15 | Sep. 06,16 |
| ESG Vector Signal Generator | Agilent | E4438C | MY49072505 | Apr. 22, 15 | Apr. 21, 16 |
| BLUETOOTH TESTER | Rohde&Schwarz | CBT32 | 100811 | Sep. 01,15 | Aug. 31,16 |

NOTE:

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

4.2.3 TEST PROCEDURE

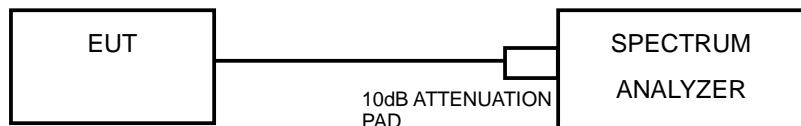
- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.



4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

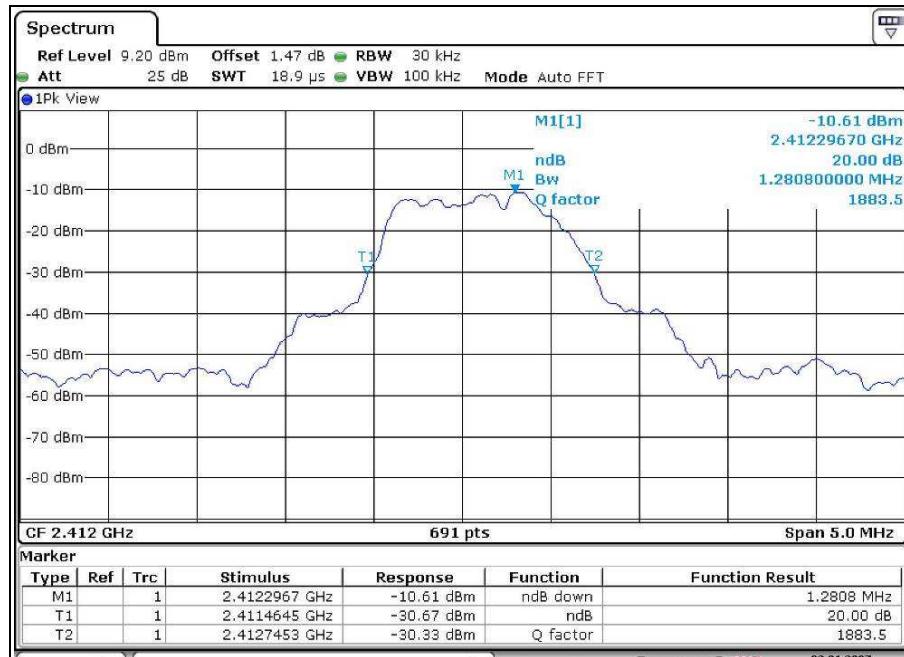
- Turned on the power of all equipment.
- EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

4.2.7 TEST RESULTS

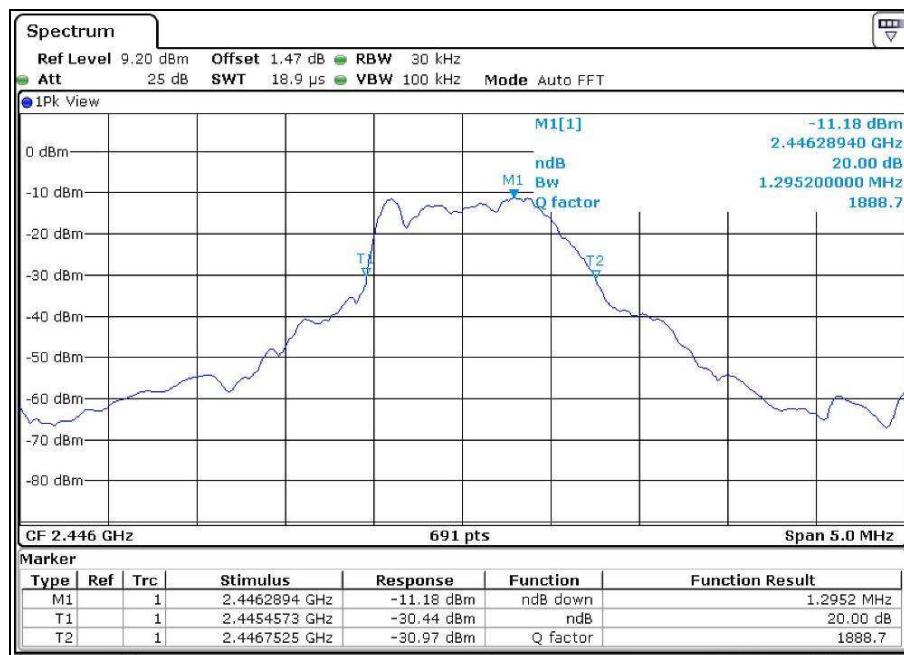
| CHANNEL | CHANNEL FREQUENCY (MHz) | 20dB BANDWIDTH (MHz) |
|---------|-------------------------|----------------------|
| Low | 2412 | 1.281 |
| Middle | 2445 | 1.295 |
| High | 2475 | 1.375 |



Test Data: Low channel

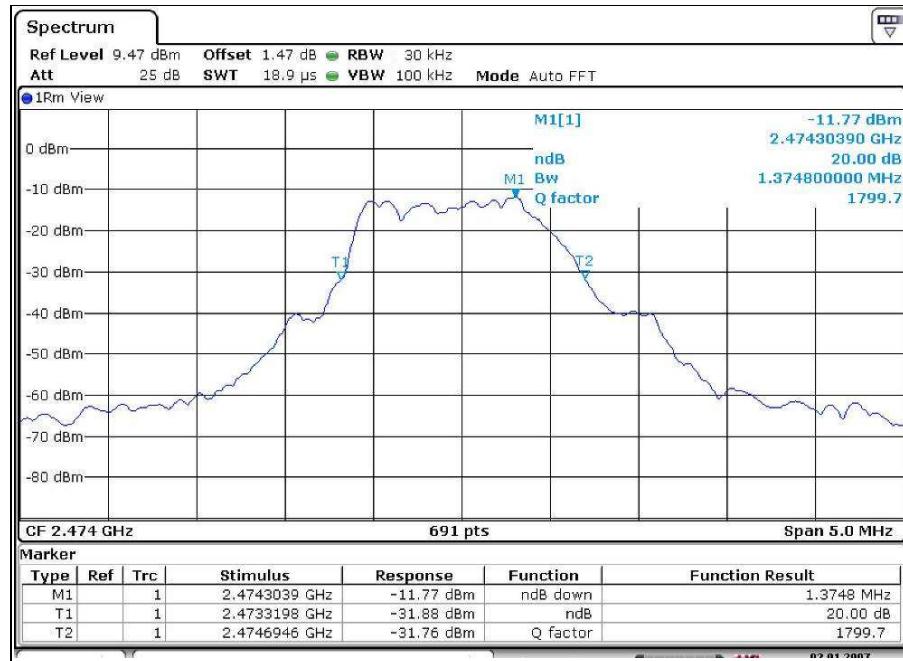


Test Data: Middle channel





Test Data: High channel





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5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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6. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---