

FCC TEST REPORT

For

Shenzhen Xiang Xiang Yu Technology Co., Ltd

Bluetooth Earphone

Test Model: XY-8

Prepared for : Shenzhen Xiang Xiang Yu Technology Co., Ltd
Address : Workshop 301, No. 6, Qinhuai Road, Gushu Community, Xixiang
Subdistrict, Baoan Shenzhen 518126 China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : August 25, 2020
Number of tested samples : 2
Sample No. : 200817092A-1, 200817092A-2
Serial number : Prototype
Date of Test : August 25, 2020 ~ August 31, 2020
Date of Report : September 03, 2020

**FCC TEST REPORT
FCC CFR 47 PART 15 C (15.247)**

Report Reference No. : **LCS200817092AEB**

Date of Issue..... : September 03, 2020

Testing Laboratory Name..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**

Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street,
Baoan District, Shenzhen, China

Testing Location/ Procedure..... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □

Applicant's Name..... : **Shenzhen Xiang Xiang Yu Technology Co., Ltd**

Address..... : Workshop 301, No. 6, Qinhui Road, Gushu Community, Xixiang
Subdistrict, Baoan Shenzhen 518126 China

Test Specification

Standard..... : FCC CFR 47 PART 15 C (15.247)

Test Report Form No...... : LCSEMC-1.0

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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EUT Description..... : **Bluetooth Earphone**

Trade Mark..... : N/A

Model/ Type reference..... : XY-8
Headset: Input: DC 5V

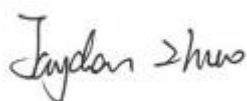
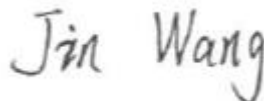
Ratings..... : DC 3.7V by Li-ion Battery(30mAh)
Charging Case: Input: DC 5V
DC 3.7V By Li-ion Battery(400mAh)

Result : **Positive**

Compiled by:

Supervised by:

Approved by:


Jayden Zhuo / Administrators

Jin Wang / Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

| | |
|--|--|
| Test Report No. : LCS200817092AEB | <u>September 03, 2020</u> Date of issue |
|--|--|

| | |
|--------------------------|--|
| Type / Model..... | : XY-8 |
| EUT..... | : Bluetooth Earphone |
| Applicant..... | : Shenzhen Xiang Xiang Yu Technology Co., Ltd |
| Address..... | : Workshop 301, No. 6, Qinhui Road, Gushu Community,Xixiang Subdistrict,Baoan Shenzhen 518126 China |
| Telephone..... | : / |
| Fax..... | : / |
| Manufacturer..... | : Shenzhen Xiang Xiang Yu Technology Co., Ltd |
| Address..... | : Workshop 301, No. 6, Qinhui Road, Gushu Community,Xixiang Subdistrict,Baoan Shenzhen 518126 China |
| Telephone..... | : / |
| Fax..... | : / |
| Factory..... | : / |
| Address..... | : / |
| Telephone..... | : / |
| Fax..... | : / |

| | |
|--------------------|-----------------|
| Test Result | Positive |
|--------------------|-----------------|

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

| Revision | Issue Date | Revisions | Revised By |
|----------|--------------------|---------------|-------------|
| 000 | September 03, 2020 | Initial Issue | Gavin Liang |
| | | | |
| | | | |

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

| | |
|---------------------|---|
| EUT | : Bluetooth Earphone |
| Test Model | : XY-8 |
| Power Supply | : Headset: Input: DC 5V |
| | : DC 3.7V by Li-ion Battery(30mAh) |
| | : Charging Case: Input: DC 5V |
| | : DC 3.7V By Li-ion Battery(400mAh) |
| Hardware Version | : 3.0 |
| Software Version | : 068 |
| Bluetooth | |
| Frequency Range | : 2402MHz ~ 2480MHz |
| Channel Number | : 79 channels for Bluetooth V5.0 (DSS) |
| | : 40 channels for Bluetooth V5.0 (DTS) |
| Channel Spacing | : 1MHz for Bluetooth V5.0 (DSS) |
| | : 2MHz for Bluetooth V5.0 (DTS) |
| Modulation Type | : GFSK, $\pi/4$ -DQPSK for Bluetooth V5.0 (DSS) |
| | : GFSK for Bluetooth V5.0 (DTS) |
| Bluetooth Version | : V5.0 |
| Antenna Description | : Ceramic Antenna, -0.58dBi(Max.) |

1.2. Host System Configuration List and Details

| Manufacturer | Description | Model | Serial Number | Certificate |
|--------------|-------------|-------|---------------|-------------|
| -- | ADAPTER | -- | -- | SDOC |

1.3. External I/O Cable

| I/O Port Description | Quantity | Cable |
|-----------------------|----------|-------|
| USB Interface(Type-C) | 1 | N/A |

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is 254912.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10:2013 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the Measurement Uncertainty

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

1.6. Measurement Uncertainty

| Test Item | Frequency Range | Uncertainty | Note |
|------------------------|-----------------|-------------|------|
| Radiation Uncertainty | 9KHz~30MHz | ±3.10dB | (1) |
| | 30MHz~200MHz | ±2.96dB | (1) |
| | 200MHz~1000MHz | ±3.10dB | (1) |
| | 1GHz~26.5GHz | ±3.80dB | (1) |
| | 26.5GHz~40GHz | ±3.90dB | (1) |
| Conduction Uncertainty | 150kHz~30MHz | ±1.63dB | (1) |
| Power disturbance | 30MHz~300MHz | ±1.60dB | (1) |

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

1.7. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power that was determined to be BT LE mode (MCH).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be BT LE mode (MCH).

Pre-test AC conducted emission at charge from PC mode, recorded worst case.

Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worst case.

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

BT LE: 1 Mbps, GFSK.

BLE 5.0(BT LE)

| Frequency Band | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|----------------|-------------|-----------------|-------------|-----------------|
| 2402~2480MHz | 0 | 2402 | 20 | 2442 |
| | 1 | 2404 | -- | -- |
| | 2 | 2406 | -- | -- |
| | -- | -- | 37 | 2476 |
| | -- | -- | 38 | 2478 |
| | 19 | 2440 | 39 | 2480 |

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure KDB558074 D01 15.247 Meas Guidance v05r02 are required to be used for this kind of FCC 15.247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.

2.4. Test Sample

The application provides 2 samples to meet requirement;

| Sample Number | Description |
|-------------------------|---------------------------------------|
| Sample 1(200817092A -1) | Engineer sample – continuous transmit |
| Sample 2(200817092A -2) | Normal sample – Intermittent transmit |

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmit condition. The duty cycle is 100% and the average correction factor is 0.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (FCC_assist) provided by application.

3.3. Special Accessories

| Manufacturer | Description | Model | Serial Number | Certificate |
|--------------|-------------|-------|---------------|-------------|
| -- | -- | -- | -- | -- |

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

| Applied Standard: FCC Part 15 Subpart C | | | |
|---|--------------------------------|-----------|------------------------------|
| FCC Rules | Description of Test | Result | Remark |
| / | On Time and Duty Cycle | / | Appendix B.1 |
| §15.247(b) | Maximum Conducted Output Power | Compliant | Appendix B.2 |
| §15.247(e) | Power Spectral Density | Compliant | Appendix B.3 |
| §15.247(a)(2) | 6dB Bandwidth | Compliant | Appendix B.4 |
| §15.209, §15.247(d) | Conducted Spurious Emissions | Compliant | Appendix B.5 Appendix B.6 |
| §15.209, §15.247(d) | Radiated Spurious Emissions | Compliant | Note 1 |
| §15.205 | Emissions at Restricted Band | Compliant | Appendix B.7 Appendix B.8 |
| §15.207(a) | Conducted Emissions | N/A | Note 1 |
| §15.203 | Antenna Requirements | Compliant | Note 1 |
| §15.247(i)§2.1903 | RF Exposure | Compliant | Note 2 |

Remark:

1. Note 1 – Test results inside test report;
2. Note 2 – Test results in other test report (RF Exposure report);

5. TEST RESULT

5.1. On Time and Duty Cycle

5.1.1. Standard Applicable

None; for reporting purpose only.

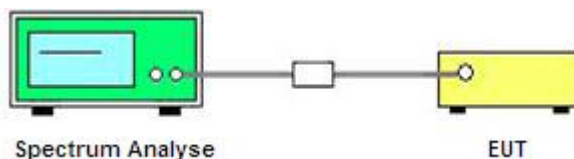
5.1.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

5.1.3. Test Procedures

1. Set the center frequency of the spectrum analyzer to the transmitting frequency;
2. Set the span=0MHz, RBW=8MHz, VBW=50MHz, Sweep time=20.27ms;
3. Detector = peak;
4. Trace mode = Single hold.

5.1.4. Test Setup Layout



5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.6. Test result

For reporting purpose only.

Please refer to Appendix B.1

5.2. Maximum Conducted Output Power Measurement

5.2.1. Standard Applicable

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

5.2.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

5.2.3. Test Procedures

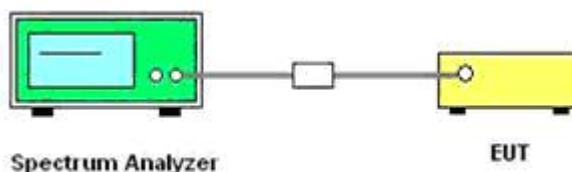
The transmitter output (antenna port) was connected to the spectrum analyzer.

According to KDB558074 D01 15.247 Meas Guidance v05r02 Section 9.1 Maximum peak conducted output power 9.1.1.

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- a) Set the RBW \geq DTS bandwidth.
- b) Set VBW $\geq 3 \times$ RBW.
- c) Set span $\geq 3 \times$ RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

5.2.4. Test Setup Layout



5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.6. Test Result of Maximum Conducted Output Power

PASS

Please refer to Appendix B.2

Remark:

1. Test results including cable loss.

5.3. Power Spectral Density Measurement

5.3.1. Standard Applicable

According to §15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

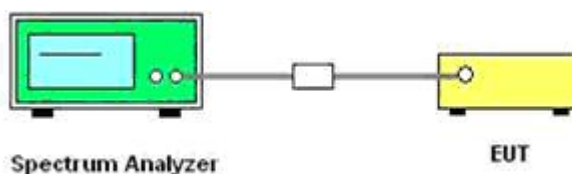
5.3.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

5.3.3. Test Procedures

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
3. Set the RBW = 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW
5. Set the span to 1.5 times the DTS channel bandwidth.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum power level.
11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
12. The resulting peak PSD level must be 8 dBm.

5.3.4. Test Setup Layout



5.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.6. Test Result of Power Spectral Density

PASS

Please refer to Appendix B.3

Remark:

1. Test results including cable loss.

5.4. 6 dB Spectrum Bandwidth Measurement

5.4.1. Standard Applicable

According to §15.247(a) (2): For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

5.4.2. Measuring Instruments and Setting

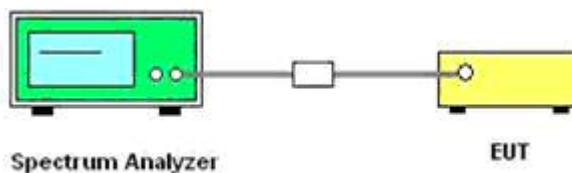
Please refer to equipment list in this report. The following table is the setting of the Spectrum Analyzer.

| Spectrum Parameter | Setting |
|--------------------|----------------|
| Attenuation | Auto |
| RBW | 100KHz |
| VBW | $\geq 3 * RBW$ |
| Span Frequency | $> RBW$ |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

5.4.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. The resolution bandwidth and the video bandwidth were set according to KDB558074 D01 15.247 Meas Guidance v05r02.
3. Measured the spectrum width with power higher than 6dB below carrier.

5.4.4. Test Setup Layout



5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.6. Test Result of 6dB Spectrum Bandwidth

PASS

Please refer to Appendix B.4

Remark:

1. Test results including cable loss.

5.5. Radiated Emissions Measurement

5.5.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| \1\ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (\2\) |
| 13.36-13.41 | | | |

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| 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 |

5.5.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10 th carrier harmonic |
| RB / VB (Emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |
| RB / VB (Emission in non-restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |

| Receiver Parameter | Setting |
|------------------------|--|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG |
| Start ~ Stop Frequency | 150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB/VB 120kHz/1MHz for QP |

5.5.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 0.8 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

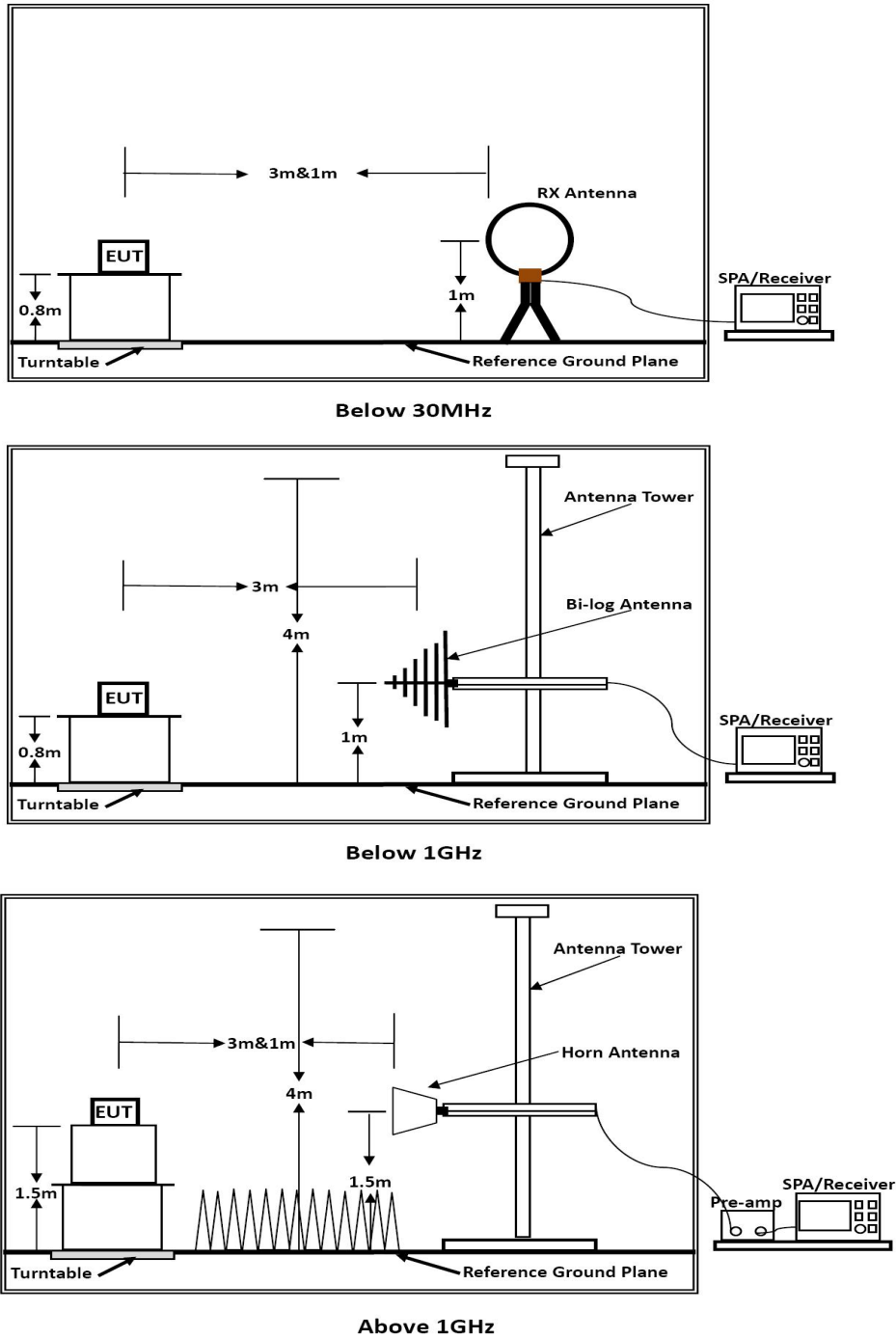
Premeasurement:

- The antenna is moved spherical over the EUT in different polarizations of the antenna.

Final measurement:

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

5.5.4. Test Setup Layout



Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor = $20 \log(\text{specific distance [3m]} / \text{test distance [1m]})$ (dB);
Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

5.5.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.5.6. Results of Radiated Emissions (9 KHz~30MHz)

| | | | |
|---------------|--------|----------------|-------|
| Temperature | 24.6°C | Humidity | 54.1% |
| Test Engineer | Kay Hu | Configurations | BT LE |

| Freq. (MHz) | Level (dBuV) | Over Limit (dB) | Over Limit (dBuV) | Remark |
|-------------|--------------|-----------------|-------------------|----------|
| - | - | - | - | See Note |

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

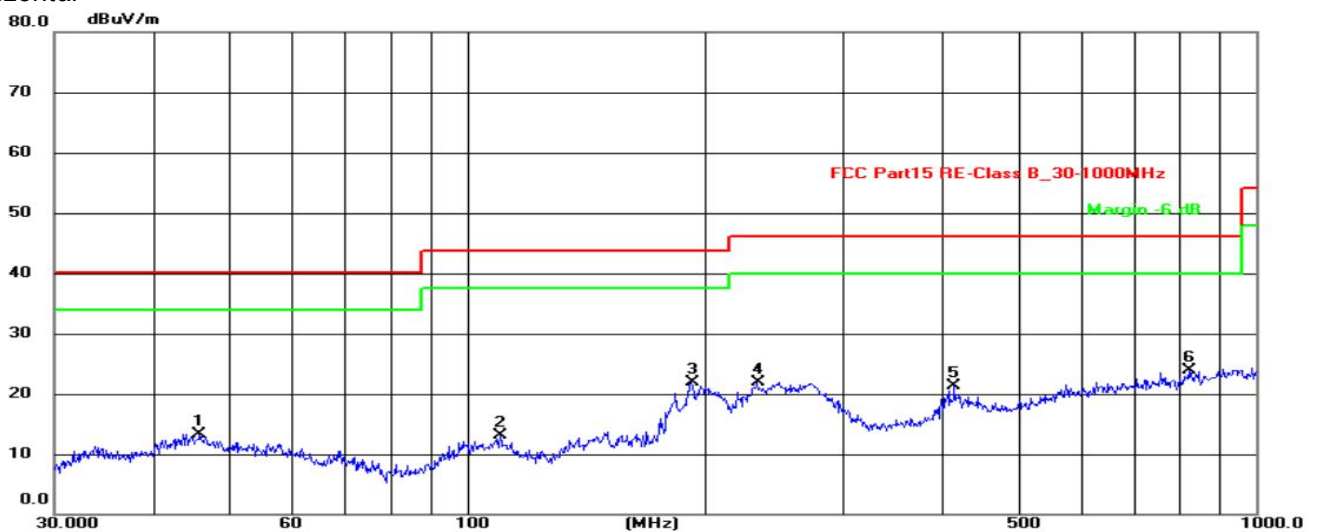
Limit line = specific limits (dBuV) + distance extrapolation factor.

5.5.7. Results of Radiated Emissions (30MHz~1GHz)

| | | | |
|---------------|--------|----------------|-------------|
| Temperature | 24.6°C | Humidity | 54.1% |
| Test Engineer | Kay Hu | Configurations | BT LE (MCH) |

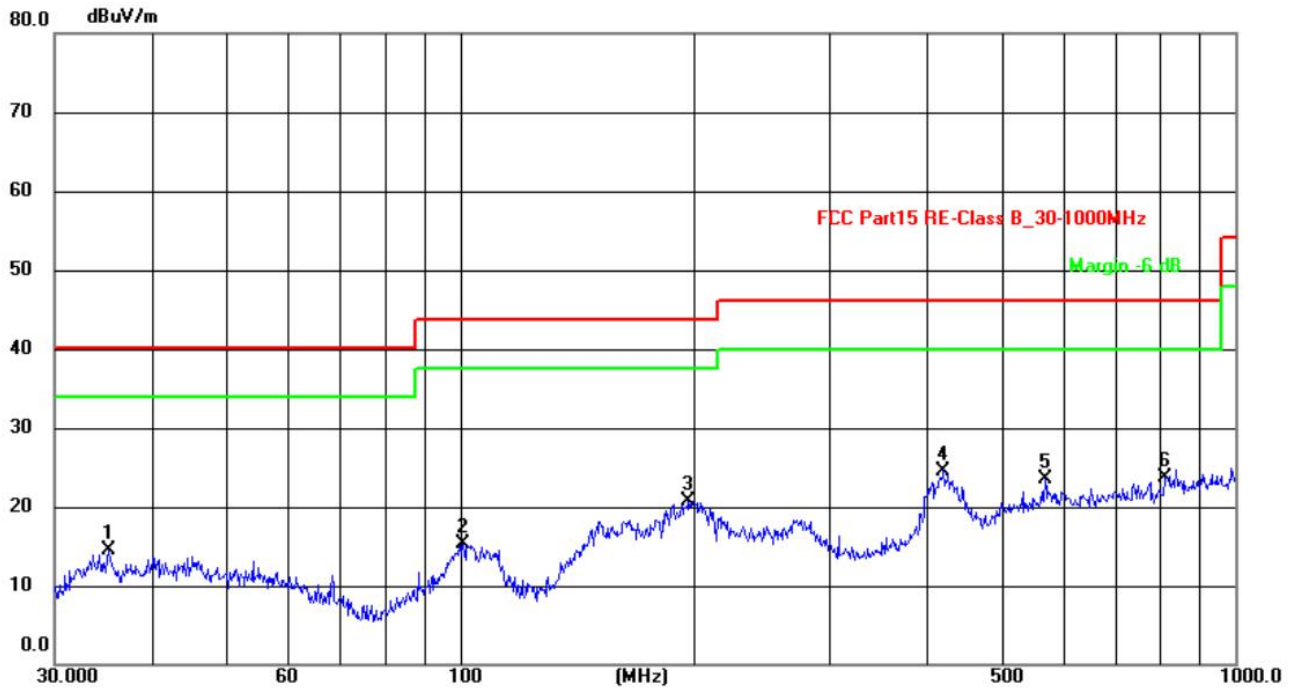
Test result for BT LE (MCH)

Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 45.8553 | 28.48 | -15.09 | 13.39 | 40.00 | -26.61 | QP |
| 2 | 110.1816 | 30.38 | -17.24 | 13.14 | 43.50 | -30.36 | QP |
| 3 | 192.4186 | 40.08 | -18.10 | 21.98 | 43.50 | -21.52 | QP |
| 4 | 233.3487 | 38.11 | -16.13 | 21.98 | 46.00 | -24.02 | QP |
| 5 | 414.7223 | 33.34 | -12.02 | 21.32 | 46.00 | -24.68 | QP |
| 6 | 821.7103 | 30.73 | -6.80 | 23.93 | 46.00 | -22.07 | QP |

Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 35.2511 | 32.01 | -17.52 | 14.49 | 40.00 | -25.51 | QP |
| 2 | 100.9339 | 32.52 | -17.29 | 15.23 | 43.50 | -28.27 | QP |
| 3 | 197.2001 | 38.17 | -17.54 | 20.63 | 43.50 | -22.87 | QP |
| 4 | 420.5803 | 36.55 | -11.95 | 24.60 | 46.00 | -21.40 | QP |
| 5 | 568.6126 | 32.71 | -9.14 | 23.57 | 46.00 | -22.43 | QP |
| 6 | 810.2653 | 30.70 | -6.96 | 23.74 | 46.00 | -22.26 | QP |

Note:

- 1). Pre-scan all modes and recorded the worst case results in this report (BT LE (MCH)).
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Corrected Reading: Antenna Factor + Cable Loss + Read Level = Level.

5.5.8. Results for Radiated Emissions (1 – 26GHz)

BT LE**Channel 0 / 2402 MHz**

| Freq. MHz | Reading dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark | Pol. |
|-----------|--------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 4804.00 | 59.38 | 32.14 | 34.12 | 3.53 | 60.93 | 74.00 | -13.07 | Peak | Horizontal |
| 4804.00 | 44.04 | 32.14 | 34.12 | 3.53 | 45.59 | 54.00 | -8.41 | Average | Horizontal |
| 4804.00 | 58.85 | 32.14 | 34.12 | 3.53 | 60.40 | 74.00 | -13.60 | Peak | Vertical |
| 4804.00 | 40.26 | 32.14 | 34.12 | 3.53 | 41.81 | 54.00 | -12.19 | Average | Vertical |

Channel 19 / 2440 MHz

| Freq. MHz | Reading dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark | Pol. |
|-----------|--------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 4880.00 | 54.07 | 33.06 | 35.04 | 3.94 | 56.03 | 74.00 | -17.97 | Peak | Horizontal |
| 4880.00 | 45.86 | 33.06 | 35.04 | 3.94 | 47.82 | 54.00 | -6.18 | Average | Horizontal |
| 4880.00 | 59.75 | 33.06 | 35.04 | 3.94 | 61.71 | 74.00 | -12.29 | Peak | Vertical |
| 4880.00 | 45.16 | 33.06 | 35.04 | 3.94 | 47.12 | 54.00 | -6.88 | Average | Vertical |

Channel 39 / 2480 MHz

| Freq. MHz | Reading dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark | Pol. |
|-----------|--------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 4960.00 | 57.30 | 33.26 | 35.14 | 3.98 | 59.40 | 74.00 | -14.60 | Peak | Horizontal |
| 4960.00 | 44.64 | 33.26 | 35.14 | 3.98 | 46.74 | 54.00 | -7.26 | Average | Horizontal |
| 4960.00 | 53.81 | 33.26 | 35.14 | 3.98 | 55.91 | 74.00 | -18.09 | Peak | Vertical |
| 4960.00 | 43.17 | 33.26 | 35.14 | 3.98 | 45.27 | 54.00 | -8.73 | Average | Vertical |

Notes:

- 1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3). Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4). Measured = Reading + Ant. Fac - Pre. Fac + Cab.Los.

5.6. Conducted Spurious Emissions and Band Edges Test

5.6.1. Standard Applicable

According to §15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.6.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

| Spectrum Parameter | Setting |
|---|---------------|
| Detector | Peak |
| Attenuation | Auto |
| RB / VB (Emission in restricted band) | 100KHz/300KHz |
| RB / VB (Emission in non-restricted band) | 100KHz/300KHz |

5.6.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 9 kHz to 26.5GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

5.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 5.4.4.

5.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.6.6. Test Results of Conducted Spurious Emissions

PASS

Please refer to Appendix B.5 for conducted spurious emissions;

Please refer to Appendix B.6 for conducted band edge emission.

Remark:

- 1). Test results including cable loss;
- 2). “---“means that the fundamental frequency not for 15.209 limits requirement.
- 3). Not recorded emission from 9 KHz to 30 MHz as emission level at least 20dBc lower than emission limit.

5.7. AC Power Line Conducted Emissions

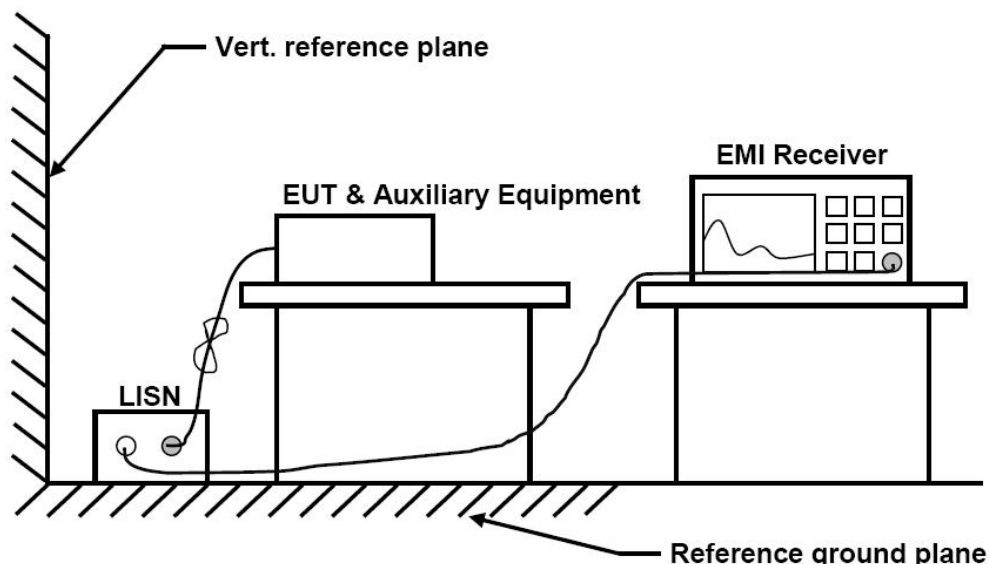
5.7.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

| Frequency Range (MHz) | Limits (dBµV) | |
|-----------------------|---------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

* Decreasing linearly with the logarithm of the frequency

5.7.2 Block Diagram of Test Setup



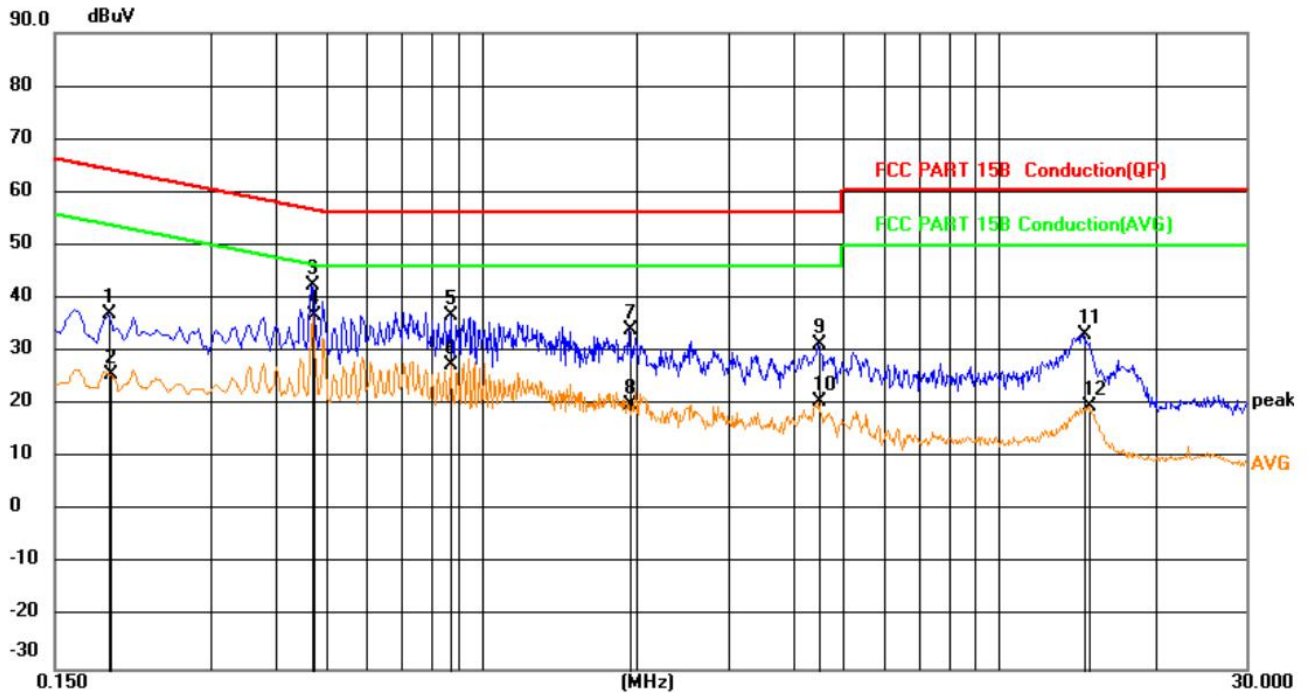
5.7.3 Test Results

PASS.

The test data please refer to following page.

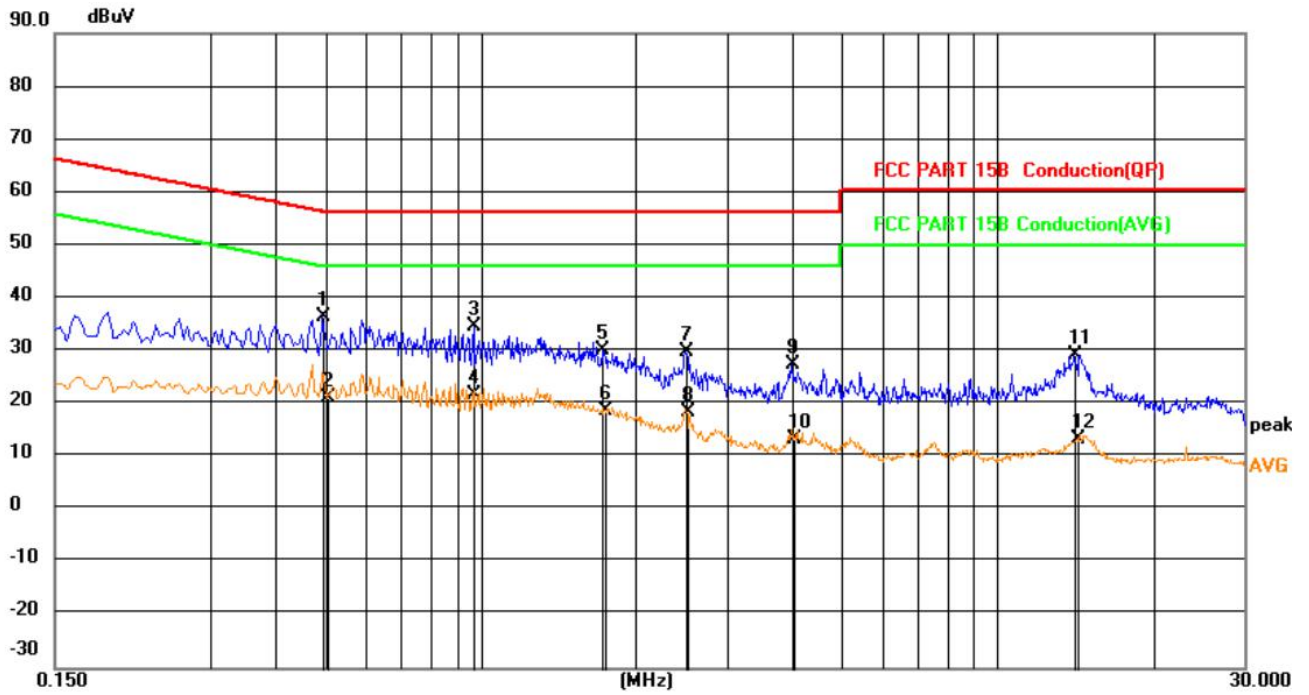
| | | | |
|---------------|--------|----------------|-------|
| Temperature | 23.3°C | Humidity | 53.7% |
| Test Engineer | Kar Hu | Configurations | BLE |

AC Conducted Emission of charge from PC mode @ AC 120V/60Hz @ BT LE (MCH) (worst case)
 Line



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.1905 | 24.57 | 12.53 | 37.10 | 64.01 | -26.91 | QP | |
| 2 | | 0.1924 | 12.99 | 12.54 | 25.53 | 53.93 | -28.40 | AVG | |
| 3 | | 0.4695 | 28.97 | 13.39 | 42.36 | 56.52 | -14.16 | QP | |
| 4 | * | 0.4740 | 23.53 | 13.37 | 36.90 | 46.44 | -9.54 | AVG | |
| 5 | | 0.8745 | 25.09 | 11.69 | 36.78 | 56.00 | -19.22 | QP | |
| 6 | | 0.8745 | 15.71 | 11.69 | 27.40 | 46.00 | -18.60 | AVG | |
| 7 | | 1.9320 | 21.33 | 12.73 | 34.06 | 56.00 | -21.94 | QP | |
| 8 | | 1.9320 | 7.25 | 12.73 | 19.98 | 46.00 | -26.02 | AVG | |
| 9 | | 4.4835 | 18.32 | 13.17 | 31.49 | 56.00 | -24.51 | QP | |
| 10 | | 4.4835 | 7.43 | 13.17 | 20.60 | 46.00 | -25.40 | AVG | |
| 11 | | 14.5725 | 20.15 | 12.90 | 33.05 | 60.00 | -26.95 | QP | |
| 12 | | 14.8650 | 6.66 | 12.94 | 19.60 | 50.00 | -30.40 | AVG | |

Neutral



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | * | 0.4965 | 23.18 | 13.26 | 36.44 | 56.06 | -19.62 | QP | |
| 2 | | 0.5055 | 7.97 | 13.22 | 21.19 | 46.00 | -24.81 | AVG | |
| 3 | | 0.9690 | 22.83 | 11.68 | 34.51 | 56.00 | -21.49 | QP | |
| 4 | | 0.9690 | 10.11 | 11.68 | 21.79 | 46.00 | -24.21 | AVG | |
| 5 | | 1.7205 | 17.81 | 12.48 | 30.29 | 56.00 | -25.71 | QP | |
| 6 | | 1.7385 | 6.26 | 12.50 | 18.76 | 46.00 | -27.24 | AVG | |
| 7 | | 2.4945 | 16.94 | 13.00 | 29.94 | 56.00 | -26.06 | QP | |
| 8 | | 2.5035 | 5.45 | 13.00 | 18.45 | 46.00 | -27.55 | AVG | |
| 9 | | 4.0020 | 13.86 | 13.62 | 27.48 | 56.00 | -28.52 | QP | |
| 10 | | 4.0335 | -0.10 | 13.59 | 13.49 | 46.00 | -32.51 | AVG | |
| 11 | | 14.1090 | 16.42 | 12.86 | 29.28 | 60.00 | -30.72 | QP | |
| 12 | | 14.2665 | 0.57 | 12.88 | 13.45 | 50.00 | -36.55 | AVG | |

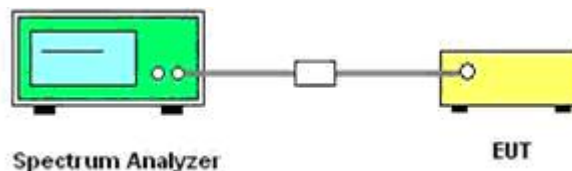
***Note: 1).Pre-scan all modes and recorded the worst case results in this report (BT LE (MCH)).
 2). Margin=Reading level + Correct - Limit

5.8. Band-edge Measurements for Radiated Emissions

5.8.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.8.2. Test Setup Layout



5.8.3. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

5.8.4. Test Procedures

According to KDB558074 D01 15.247 Meas Guidance v05r02 for Antenna-port conducted measurement. Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to an EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=1/B for Peak detector.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.
6. Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 12.2.2, 12.2.3, and 12.2.4 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
7. Add the maximum transmit antenna gain (in dBi) to the measured output
8. power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
9. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
10. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
11. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

Where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

12. Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.
13. Compare the resultant electric field strength level to the applicable regulatory limit.
14. Perform radiated spurious emission test duress until all measured frequencies were complete.

5.8.5 Test Results

PASS

Please refer to Appendix B.7

Remark:

- 1). *Test results including cable loss;*
- 2). *“---“means that the fundamental frequency not for 15.209 limits requirement;*
- 3). *The average measurement was not performed when the peak measured data under the limit of average detection.*
- 4). *Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=330Hz/Sweep time=Auto/Detector=Peak.*
- 5). *Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.*

5.9. Antenna Requirements

5.9.1 Standard Applicable

According to RSS-Gen,

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

5.9.2 Antenna Connected Construction

5.9.2.1. Standard Applicable

According to § 15.203 & RSS-Gen Issue 5, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.9.2.2. Antenna Connector Construction

The gains of antenna used for transmitting is -0.58dBi, and the antenna is a Ceramic antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

5.9.2.3. Results: Compliance.

6. LIST OF MEASURING EQUIPMENTS

| Item | Equipment | Manufacturer | Model No. | Serial No. | Cal Date | Due Date |
|------|--------------------------|----------------|--------------|-----------------|------------|------------|
| 1 | Power Meter | R&S | NRVS | 100444 | 2020-06-22 | 2021-06-21 |
| 2 | Power Sensor | R&S | NRV-Z81 | 100458 | 2020-06-22 | 2021-06-21 |
| 3 | Power Sensor | R&S | NRV-Z32 | 10057 | 2020-06-22 | 2021-06-21 |
| 4 | Test Software | Tonscend | JS1120-2 | / | N/A | N/A |
| 5 | RF Control Unit | Tonscend | JS0806-2 | N/A | 2020-06-22 | 2021-06-21 |
| 6 | MXA Signal Analyzer | Agilent | N9020A | MY50510140 | 2019-11-22 | 2020-11-21 |
| 7 | DC Power Supply | Agilent | E3642A | N/A | 2019-11-14 | 2020-11-13 |
| 8 | EMI Test Software | AUDIX | E3 | / | N/A | N/A |
| 9 | 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH03-HY | 2019-09-27 | 2020-09-26 |
| 10 | Positioning Controller | MF | MF-7082 | N/A | 2020-06-22 | 2021-06-21 |
| 11 | Active Loop Antenna | SCHWARZBECK | FMZB 1519B | 00005 | 2018-07-26 | 2021-07-25 |
| 12 | By-log Antenna | SCHWARZBECK | VULB9163 | 9163-470 | 2018-07-26 | 2021-07-25 |
| 13 | Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-1925 | 2018-07-02 | 2021-07-01 |
| 14 | Broadband Horn Antenna | SCHWARZBECK | BBHA 9170 | 791 | 2017-09-21 | 2020-09-20 |
| 15 | Broadband Preampfier | SCHWARZBECK | BBV 9719 | 9719-025 | 2020-06-22 | 2021-06-21 |
| 16 | EMI Test Receiver | R&S | ESR 7 | 101181 | 2020-06-22 | 2021-06-21 |
| 17 | RS SPECTRUM ANALYZER | R&S | FSP40 | 100503 | 2019-11-14 | 2020-11-13 |
| 18 | Broadband Preampfier | / | BP-01M18G | P190501 | 2020-06-22 | 2021-06-21 |
| 19 | RF Cable-R03m | Jye Bao | RG142 | CB021 | 2020-06-22 | 2021-06-21 |
| 20 | RF Cable-HIGH | SUHNER | SUCOFLEX 106 | 03CH03-HY | 2020-06-22 | 2021-06-21 |
| 21 | 6dB Attenuator | / | 100W/6dB | 1172040 | 2020-06-22 | 2021-06-21 |
| 22 | 3dB Attenuator | / | 2N-3dB | / | 2020-06-22 | 2021-06-21 |
| 23 | EMI Test Receiver | R&S | ESPI | 101840 | 2020-06-22 | 2021-06-21 |
| 24 | Artificial Mains | R&S | ENV216 | 101288 | 2020-06-22 | 2021-06-21 |
| 25 | 10dB Attenuator | SCHWARZBECK | MTS-IMP-136 | 261115-001-0032 | 2020-06-22 | 2021-06-21 |

Note: All equipment is calibrated through CHINA CEPREI LABORATORY and GUANGZHOU LISAI CALIBRATION AND TEST CO., LTD.

7. TEST SETUP PHOTOGRAPHS

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----