

FCC REPORT

Applicant: Monoprice, Inc.
Address of Applicant: 1 Pointe Dr Suite# 400 Brea, CA92821, USA
Manufacturer/Factory: Guangzhou DSPPA Audio Co., Ltd.
Address of Manufacturer/Factory: No.1 Xiahe Rd, Jianggao Town, Baiyun District, Guangzhou, China
Equipment Under Test (EUT)
Product Name: 40W Wall Mount Music Amplifier with Touch Screen
Model No.: 36375
Trade Mark: Monoprice
FCC ID: 2ADDH-36375
Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249
Date of sample receipt: December 17, 2018
Date of Test: December 17-December 24, 2018
Date of report issued: December 25, 2018
Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



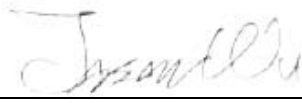
Robinson Lo

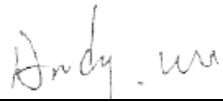
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

| Version No. | Date | Description |
|-------------|-------------------|-------------|
| 00 | December 25, 2018 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By:  **Date:** December 25, 2018
Project Engineer

Check By:  **Date:** December 25, 2018
Reviewer

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4 Test Summary

| Test Item | Section in CFR 47 | Result |
|--|-----------------------|--------|
| Antenna requirement | 15.203 | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Field strength of the fundamental signal | 15.249 (a) | Pass |
| Spurious emissions | 15.249 (a) (d)/15.209 | Pass |
| Band edge | 15.249 (d)/15.205 | Pass |
| 20dB Occupied Bandwidth | 15.215 (c) | Pass |

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

4.1 Measurement Uncertainty

| Test Item | Frequency Range | Measurement Uncertainty | Notes |
|----------------------------------|-----------------|-------------------------|-------|
| Radiated Emission | 9kHz ~ 30MHz | ± 4.34dB | (1) |
| Radiated Emission | 30MHz ~ 1000MHz | ± 4.24dB | (1) |
| Radiated Emission | 1GHz ~ 26.5GHz | ± 4.68dB | (1) |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | ± 3.45dB | (1) |

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

| | |
|----------------------|--|
| Product Name: | 40W Wall Mount Music Amplifier with Touch Screen |
| Model No.: | 36375 |
| Serial No.: | ADM837WAUAJ100117 |
| Test sample(s) ID: | GTS201812000142 |
| Sample(s) Status | Engineered sample |
| Hardware Version: | HV1.0 |
| Software Version: | SV1.0 |
| Operation Frequency: | 2402MHz~2480MHz |
| Channel numbers: | 79 |
| Channel separation: | 1MHz |
| Modulation type: | GFSK, $\pi/4$ -DQPSK, 8-DPSK |
| Antenna Type: | PCB antenna |
| Antenna gain: | 0dBi(declare by applicant) |
| Power supply: | AC 100-240V 50/60Hz |
| Test Voltage : | AC 120V/60Hz |

| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2402MHz | 21 | 2422MHz | 41 | 2442MHz | 61 | 2462MHz |
| 2 | 2403MHz | 22 | 2423MHz | 42 | 2443MHz | 62 | 2463MHz |
| ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ |
| 19 | 2420MHz | 39 | 2440MHz | 59 | 2460MHz | 79 | 2480MHz |
| 20 | 2421MHz | 40 | 2441MHz | 60 | 2461MHz | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2402MHz |
| The middle channel | 2441MHz |
| The Highest channel | 2480MHz |

5.2 Test mode

| | |
|--|---|
| Transmitting mode | Keep the EUT in continuously transmitting mode. |
| <i>Remark: During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i> | |

Pre-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

| Axis | X | Y | Z |
|------------------------|-------|-------|-------|
| Field Strength(dBuV/m) | 95.11 | 96.96 | 96.42 |

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup":
Y axis (see the test setup photo)

5.3 Description of Support Units

| |
|-------|
| None. |
|-------|

5.4 Test Facility

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

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.6 Additional instructions

Software (Used for test) from client

| | |
|-----------|---|
| Mode | Special test SW was built-in by manufacturer. |
| Power set | Default |

6 Test Instruments list

| Radiated Emission: | | | | | | |
|--------------------|---|--------------------------------|-----------------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | 3m Semi- Anechoic Chamber | ZhongYu Electron | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | July 03 2015 | July 02 2020 |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A |
| 3 | Spectrum Analyzer | Agilent | E4440A | GTS533 | June 28 2018 | June 27 2019 |
| 4 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | June 28 2018 | June 27 2019 |
| 5 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | June 28 2018 | June 27 2019 |
| 6 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | June 28 2018 | June 27 2019 |
| 7 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | June 28 2018 | June 27 2019 |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 9 | Coaxial Cable | GTS | N/A | GTS213 | June 28 2018 | June 27 2019 |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | June 28 2018 | June 27 2019 |
| 11 | Coaxial cable | GTS | N/A | GTS210 | June 28 2018 | June 27 2019 |
| 12 | Coaxial Cable | GTS | N/A | GTS212 | June 28 2018 | June 27 2019 |
| 13 | 40W Wall Mount Music Amplifier with Touch Screen(100kHz-3GHz) | HP | 8347A | GTS204 | June 28 2018 | June 27 2019 |
| 14 | 40W Wall Mount Music Amplifier with Touch Screen(2GHz-20GHz) | HP | 8349B | GTS206 | June 28 2018 | June 27 2019 |
| 15 | 40W Wall Mount Music Amplifier with Touch Screen (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June 28 2018 | June 27 2019 |
| 16 | Band filter | Amindeon | 82346 | GTS219 | June 28 2018 | June 27 2019 |
| 17 | Power Meter | Anritsu | ML2495A | GTS540 | June 28 2018 | June 27 2019 |
| 18 | Power Sensor | Anritsu | MA2411B | GTS541 | June 28 2018 | June 27 2019 |
| 19 | Loop Antenna | Zhinan | ZN30900A | GTS215 | June 28 2018 | June 27 2019 |

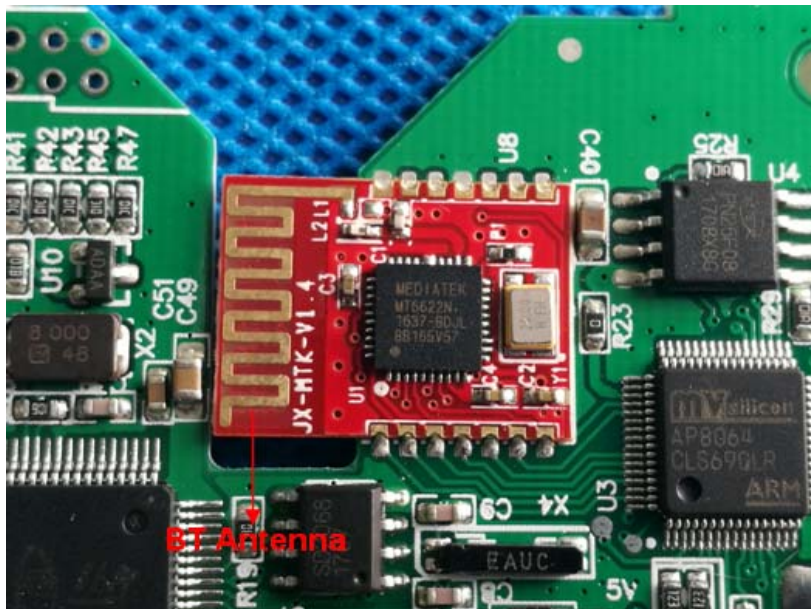
| Conducted Emission: | | | | | | |
|---------------------|--------------------------|---------------------|----------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Shielding Room | ZhongYu Electron | 7.3(L)x3.1(W)x2.9(H) | GTS252 | May.16 2014 | May.15 2019 |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | June 28 2018 | June 27 2019 |
| 3 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | June 28 2018 | June 27 2019 |
| 4 | Artificial Mains Network | SCHWARZBECK MESS | NSLK8127 | GTS226 | June 28 2018 | June 27 2019 |
| 5 | Coaxial Cable | GTS | N/A | GTS227 | N/A | N/A |
| 6 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 7 | Thermo meter | KTJ | TA328 | GTS233 | June 28 2018 | June 27 2019 |

| General used equipment: | | | | | | |
|-------------------------|----------------|--------------|-----------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |

| | | | | | | |
|---|-----------|-----------|------|--------|--------------|--------------|
| 1 | Barometer | ChangChun | DYM3 | GTS257 | June 28 2018 | June 27 2019 |
|---|-----------|-----------|------|--------|--------------|--------------|

7 Test results and Measurement Data

7.1 Antenna requirement

| | |
|---|-----------------------------|
| Standard requirement: | FCC Part15 C Section 15.203 |
| 15.203 requirement: | |
| <p>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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> | |
| EUT Antenna: | |
| <p><i>The antenna is PCB antenna, the best case gain of the antenna is 0dBi.</i></p>  | |

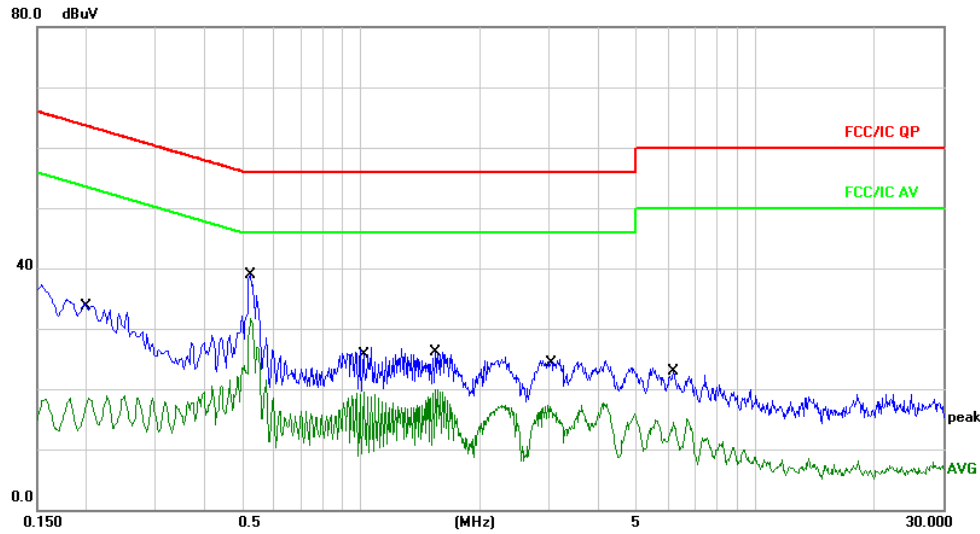
7.2 Conducted Emissions

| Test Requirement: | FCC Part15 C Section 15.207 | | | | | | | | | | | | | | |
|-----------------------|---|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Test Method: | ANSI C63.10:2013 | | | | | | | | | | | | | | |
| Test Frequency Range: | 150KHz to 30MHz | | | | | | | | | | | | | | |
| Class / Severity: | Class B | | | | | | | | | | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto | | | | | | | | | | | | | | |
| Limit: | <table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p> | Frequency range (MHz) | Limit (dBuV) | | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBuV) | | | | | | | | | | | | | | |
| | Quasi-peak | Average | | | | | | | | | | | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | | | | | | | | | |
| 0.5-5 | 56 | 46 | | | | | | | | | | | | | |
| 5-30 | 60 | 50 | | | | | | | | | | | | | |
| Test setup: | <p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p> | | | | | | | | | | | | | | |
| Test procedure: | <ol style="list-style-type: none"> 1. The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. | | | | | | | | | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | | | | | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | | | | | | | | | | |
| Test results: | Pass | | | | | | | | | | | | | | |

Measurement data

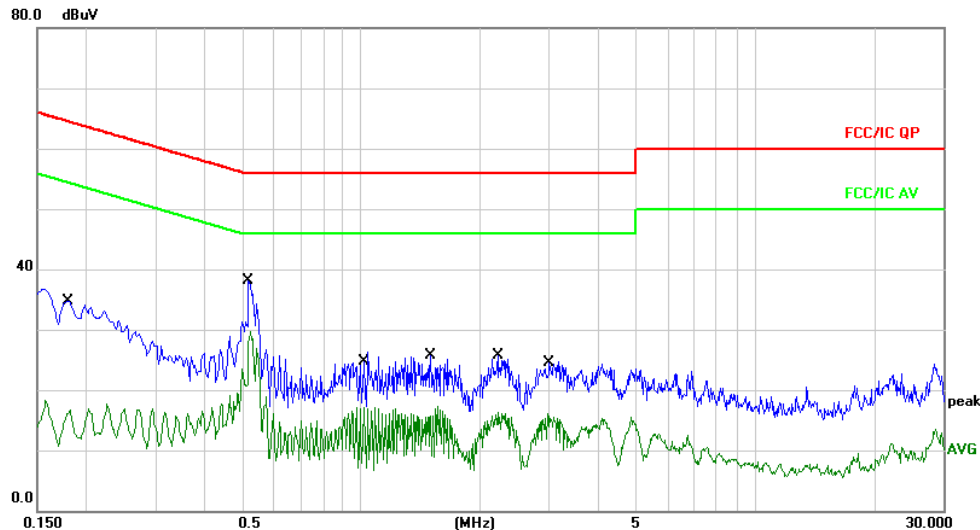
The EUT was tested in GFSK, $\pi/4$ -DQPSK, 8-DPSK modulation, and found the GFSK modulation is the worst case.

| | | | |
|----------------|--|---------------------|-----------------|
| EUT : | 40W Wall Mount Music Amplifier with Touch Screen | Model Name. : | 36375 |
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Phase : | L |
| Test Voltage : | AC120V/60Hz | Test Mode : | Worst mode-GFSK |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.2020 | 23.99 | 9.65 | 33.64 | 63.52 | -29.88 | QP | |
| 2 | | 0.2020 | 8.88 | 9.65 | 18.53 | 53.52 | -34.99 | AVG | |
| 3 | | 0.5220 | 29.18 | 9.68 | 38.86 | 56.00 | -17.14 | QP | |
| 4 | * | 0.5220 | 21.97 | 9.68 | 31.65 | 46.00 | -14.35 | AVG | |
| 5 | | 1.0140 | 17.15 | 9.69 | 26.84 | 56.00 | -29.16 | QP | |
| 6 | | 1.0140 | 9.84 | 9.69 | 19.53 | 46.00 | -26.47 | AVG | |
| 7 | | 1.5420 | 16.41 | 9.70 | 26.11 | 56.00 | -29.89 | QP | |
| 8 | | 1.5420 | 10.21 | 9.70 | 19.91 | 46.00 | -26.09 | AVG | |
| 9 | | 3.0100 | 15.12 | 9.72 | 24.84 | 56.00 | -31.16 | QP | |
| 10 | | 3.0100 | 7.40 | 9.72 | 17.12 | 46.00 | -28.88 | AVG | |
| 11 | | 6.2140 | 13.04 | 9.78 | 22.82 | 60.00 | -37.18 | QP | |
| 12 | | 6.2140 | 4.65 | 9.78 | 14.43 | 50.00 | -35.57 | AVG | |

| | | | |
|----------------|--|---------------------|-----------------|
| EUT : | 40W Wall Mount Music Amplifier with Touch Screen | Model Name. : | 36375 |
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Phase : | N |
| Test Voltage : | AC120V/60Hz | Test Mode : | Worst mode-GFSK |

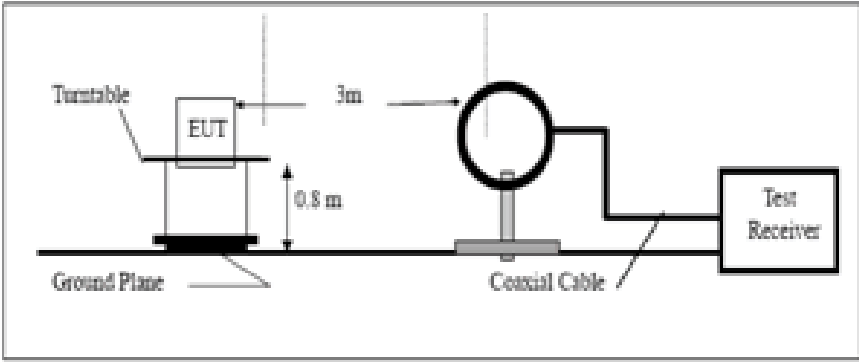


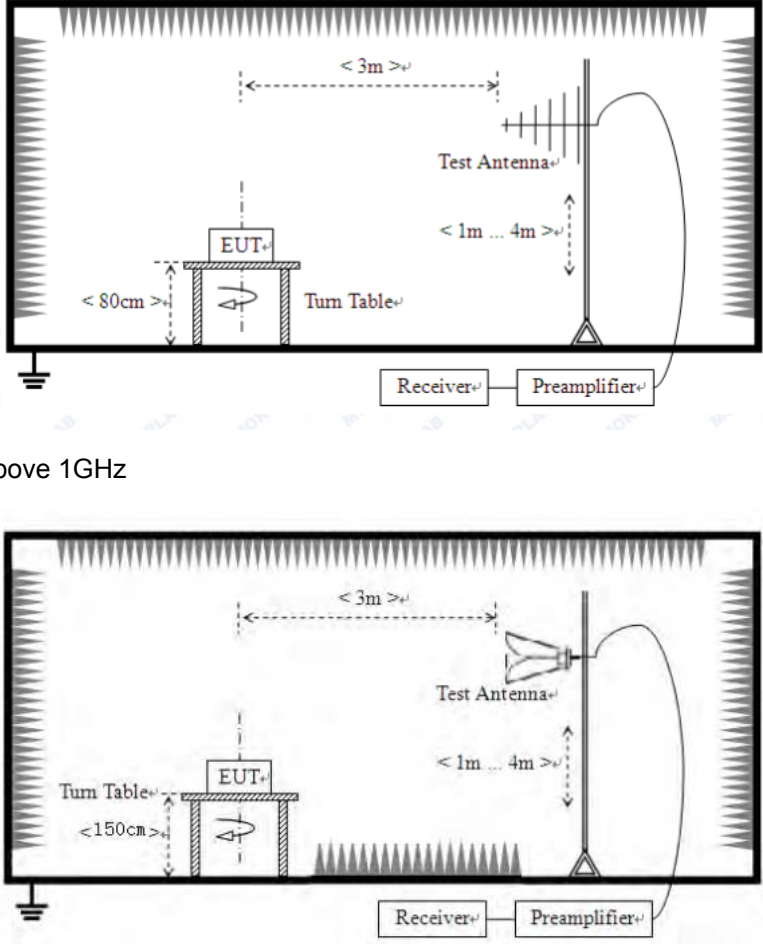
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1819 | 24.53 | 9.66 | 34.19 | 64.39 | -30.20 | QP | |
| 2 | | 0.1819 | 7.00 | 9.66 | 16.66 | 54.39 | -37.73 | AVG | |
| 3 | | 0.5180 | 28.48 | 9.68 | 38.16 | 56.00 | -17.84 | QP | |
| 4 | * | 0.5180 | 20.09 | 9.68 | 29.77 | 46.00 | -16.23 | AVG | |
| 5 | | 1.0140 | 16.63 | 9.69 | 26.32 | 56.00 | -29.68 | QP | |
| 6 | | 1.0140 | 7.47 | 9.69 | 17.16 | 46.00 | -28.84 | AVG | |
| 7 | | 1.4980 | 16.05 | 9.70 | 25.75 | 56.00 | -30.25 | QP | |
| 8 | | 1.4980 | 7.55 | 9.70 | 17.25 | 46.00 | -28.75 | AVG | |
| 9 | | 2.2180 | 16.05 | 9.72 | 25.77 | 56.00 | -30.23 | QP | |
| 10 | | 2.2180 | 6.62 | 9.72 | 16.34 | 46.00 | -29.66 | AVG | |
| 11 | | 2.9660 | 14.88 | 9.72 | 24.60 | 56.00 | -31.40 | QP | |
| 12 | | 2.9660 | 6.31 | 9.72 | 16.03 | 46.00 | -29.97 | AVG | |

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

7.3 Radiated Emission Method

| | | | | | |
|--|--|--------------------|--------|------------------|------------------|
| Test Requirement: | FCC Part15 C Section 15.209 | | | | |
| Test Method: | ANSI C63.10:2013 | | | | |
| Test Frequency Range: | 9kHz to 25GHz | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Remark |
| | 9kHz-150kHz | Quasi-peak | 200Hz | 300Hz | Quasi-peak Value |
| | 150kHz-30MHz | Quasi-peak | 9kHz | 10kHz | Quasi-peak Value |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak Value |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| Peak | | 1MHz | 10Hz | Average Value | |
| Limit: (Field strength of the fundamental signal) | Frequency | Limit (dBuV/m @3m) | | Remark | |
| | 2400MHz-2483.5MHz | 94.00 | | Average Value | |
| | | 114.00 | | Peak Value | |
| Limit: (Spurious Emissions) | Frequency | Limit (uV/m) | | Remark | |
| | 0.009MHz-0.490MHz | 2400/F(kHz) @300m | | Quasi-peak Value | |
| | 0.490MHz-1.705MHz | 24000/F(kHz) @30m | | Quasi-peak Value | |
| | 1.705MHz-30.0MHz | 30 @30m | | Quasi-peak Value | |
| | 30MHz-88MHz | 100 @3m | | Quasi-peak Value | |
| | 88MHz-216MHz | 150 @3m | | Quasi-peak Value | |
| | 216MHz-960MHz | 200 @3m | | Quasi-peak Value | |
| | 960MHz-1GHz | 500 @3m | | Quasi-peak Value | |
| | Above 1GHz | 500 @3m | | Average Value | |
| 5000 @3m | | Peak Value | | | |
| Limit: (band edge) | Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation. | | | | |
| Test setup: | <p>Below 1GHz</p>  | | | | |

| | |
|------------------------|--|
| |  <p>Above 1GHz</p> |
| <p>Test Procedure:</p> | <ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna 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. 4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. |

| | |
|-------------------|----------------------------------|
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

Measurement data:

7.3.1 Field Strength of The Fundamental Signal

GFSK

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2402.00 | 94.81 | 27.58 | 5.39 | 30.18 | 97.60 | 114.00 | -16.40 | Vertical |
| 2402.00 | 93.69 | 27.58 | 5.39 | 30.18 | 96.48 | 114.00 | -17.52 | Horizontal |
| 2441.00 | 92.94 | 27.55 | 5.43 | 30.06 | 95.86 | 114.00 | -18.14 | Vertical |
| 2441.00 | 88.05 | 27.55 | 5.43 | 30.06 | 90.97 | 114.00 | -23.03 | Horizontal |
| 2480.00 | 93.66 | 27.52 | 5.47 | 29.93 | 96.72 | 114.00 | -17.28 | Vertical |
| 2480.00 | 91.39 | 27.52 | 5.47 | 29.93 | 94.45 | 114.00 | -19.55 | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2402.00 | 82.97 | 27.58 | 5.39 | 30.18 | 85.76 | 94.00 | -8.24 | Vertical |
| 2402.00 | 81.25 | 27.58 | 5.39 | 30.18 | 84.04 | 94.00 | -9.96 | Horizontal |
| 2441.00 | 79.38 | 27.55 | 5.43 | 30.06 | 82.30 | 94.00 | -11.70 | Vertical |
| 2441.00 | 76.24 | 27.55 | 5.43 | 30.06 | 79.16 | 94.00 | -14.84 | Horizontal |
| 2480.00 | 83.60 | 27.52 | 5.47 | 29.93 | 86.66 | 94.00 | -7.34 | Vertical |
| 2480.00 | 80.64 | 27.52 | 5.47 | 29.93 | 83.70 | 94.00 | -10.30 | Horizontal |

$\pi/4$ -DQPSK

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2402.00 | 91.85 | 27.58 | 5.39 | 30.18 | 94.64 | 114.00 | -19.36 | Vertical |
| 2402.00 | 91.30 | 27.58 | 5.39 | 30.18 | 94.09 | 114.00 | -19.91 | Horizontal |
| 2441.00 | 91.24 | 27.55 | 5.43 | 30.06 | 94.16 | 114.00 | -19.84 | Vertical |
| 2441.00 | 88.21 | 27.55 | 5.43 | 30.06 | 91.13 | 114.00 | -22.87 | Horizontal |
| 2480.00 | 91.55 | 27.52 | 5.47 | 29.93 | 94.61 | 114.00 | -19.39 | Vertical |
| 2480.00 | 90.03 | 27.52 | 5.47 | 29.93 | 93.09 | 114.00 | -20.91 | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2402.00 | 83.24 | 27.58 | 5.39 | 30.18 | 86.03 | 94.00 | -7.97 | Vertical |
| 2402.00 | 78.71 | 27.58 | 5.39 | 30.18 | 81.50 | 94.00 | -12.50 | Horizontal |
| 2441.00 | 80.85 | 27.55 | 5.43 | 30.06 | 83.77 | 94.00 | -10.23 | Vertical |
| 2441.00 | 76.87 | 27.55 | 5.43 | 30.06 | 79.79 | 94.00 | -14.21 | Horizontal |
| 2480.00 | 83.13 | 27.52 | 5.47 | 29.93 | 86.19 | 94.00 | -7.81 | Vertical |
| 2480.00 | 81.29 | 27.52 | 5.47 | 29.93 | 84.35 | 94.00 | -9.65 | Horizontal |

8-DPSK

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2402.00 | 91.26 | 27.58 | 5.39 | 30.18 | 94.05 | 114.00 | -19.95 | Vertical |
| 2402.00 | 87.32 | 27.58 | 5.39 | 30.18 | 90.11 | 114.00 | -23.89 | Horizontal |
| 2441.00 | 88.09 | 27.55 | 5.43 | 30.06 | 91.01 | 114.00 | -22.99 | Vertical |
| 2441.00 | 87.34 | 27.55 | 5.43 | 30.06 | 90.26 | 114.00 | -23.74 | Horizontal |
| 2480.00 | 91.12 | 27.52 | 5.47 | 29.93 | 94.18 | 114.00 | -19.82 | Vertical |
| 2480.00 | 89.73 | 27.52 | 5.47 | 29.93 | 92.79 | 114.00 | -21.21 | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2402.00 | 77.61 | 27.58 | 5.39 | 30.18 | 80.40 | 94.00 | -13.60 | Vertical |
| 2402.00 | 76.25 | 27.58 | 5.39 | 30.18 | 79.04 | 94.00 | -14.96 | Horizontal |
| 2441.00 | 76.82 | 27.55 | 5.43 | 30.06 | 79.74 | 94.00 | -14.26 | Vertical |
| 2441.00 | 76.12 | 27.55 | 5.43 | 30.06 | 79.04 | 94.00 | -14.96 | Horizontal |
| 2480.00 | 78.37 | 27.52 | 5.47 | 29.93 | 81.43 | 94.00 | -12.57 | Vertical |
| 2480.00 | 77.20 | 27.52 | 5.47 | 29.93 | 80.26 | 94.00 | -13.74 | Horizontal |

7.3.2 Spurious emissions

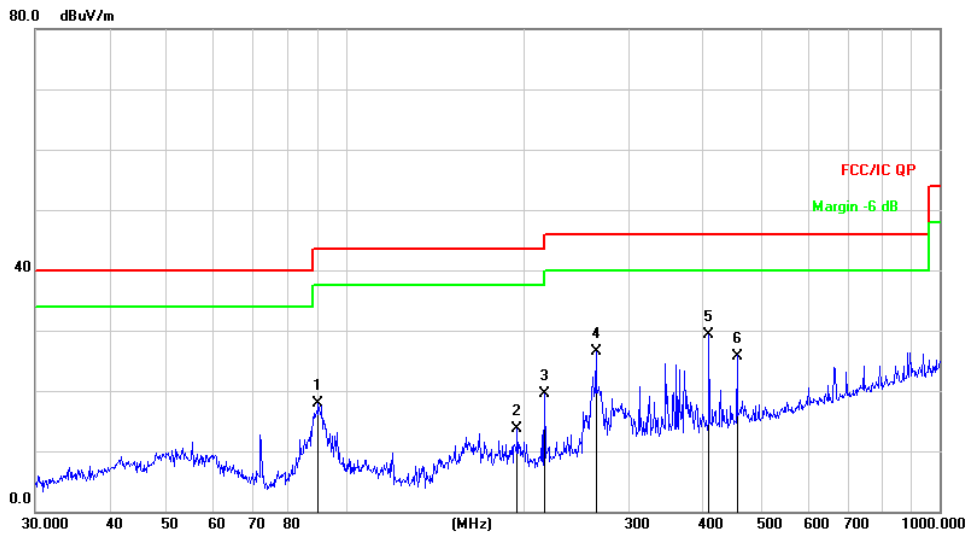
■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ Below 1GHz

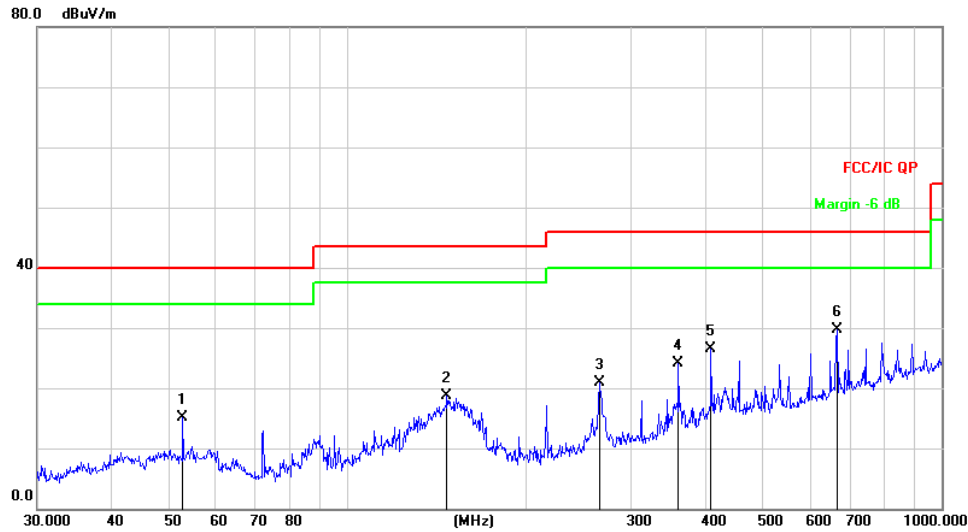
■ The EUT was tested in GFSK, $\pi/4$ -DQPSK, 8-DPSK modulation, and found the GFSK modulation is the worst case.

| | | | |
|-------------------------|--------------------------|----------------------|-------------------|
| Mode: | Transmitting mode | Test by: | Jason |
| Temp./Hum.(%RH): | 26°C/56%RH | Polarization: | Horizontal |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dB/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1 | | 89.9047 | 36.10 | -18.21 | 17.89 | 43.50 | -25.61 | QP |
| 2 | | 194.4534 | 29.91 | -16.11 | 13.80 | 43.50 | -29.70 | QP |
| 3 | | 216.0240 | 35.12 | -15.61 | 19.51 | 46.00 | -26.49 | QP |
| 4 | | 263.8190 | 39.77 | -13.28 | 26.49 | 46.00 | -19.51 | QP |
| 5 | * | 408.9460 | 38.52 | -9.13 | 29.39 | 46.00 | -16.61 | QP |
| 6 | | 455.9058 | 34.13 | -8.33 | 25.80 | 46.00 | -20.20 | QP |

| | | | |
|-------------------------|--------------------------|----------------------|-----------------|
| Mode: | Transmitting mode | Test by: | Jason |
| Temp./Hum.(%RH): | 26°C/56%RH | Polarization: | Vertical |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector |
| 1 | | 52.7600 | 29.86 | -14.80 | 15.06 | 40.00 | -24.94 | QP |
| 2 | | 146.8877 | 38.43 | -19.80 | 18.63 | 43.50 | -24.87 | QP |
| 3 | | 265.6757 | 34.20 | -13.21 | 20.99 | 46.00 | -25.01 | QP |
| 4 | | 360.4476 | 34.53 | -10.40 | 24.13 | 46.00 | -21.87 | QP |
| 5 | | 408.9460 | 35.54 | -9.13 | 26.41 | 46.00 | -19.59 | QP |
| 6 | * | 668.1423 | 33.13 | -3.50 | 29.63 | 46.00 | -16.37 | QP |

■ Above 1GHz

| | |
|---------------|---------------------|
| Test channel: | Lowest channel-GFSK |
|---------------|---------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4804.00 | 42.02 | 31.78 | 8.60 | 32.09 | 50.31 | 74.00 | -23.69 | Vertical |
| 7206.00 | 34.46 | 36.15 | 11.65 | 32.00 | 50.26 | 74.00 | -23.74 | Vertical |
| 9608.00 | 32.59 | 37.95 | 14.14 | 31.62 | 53.06 | 74.00 | -20.94 | Vertical |
| 12010.00 | * | | | | | 74.00 | | Vertical |
| 14412.00 | * | | | | | 74.00 | | Vertical |
| 4804.00 | 45.86 | 31.78 | 8.60 | 32.09 | 54.15 | 74.00 | -19.85 | Horizontal |
| 7206.00 | 38.71 | 36.15 | 11.65 | 32.00 | 54.51 | 74.00 | -19.49 | Horizontal |
| 9608.00 | 35.54 | 37.95 | 14.14 | 31.62 | 56.01 | 74.00 | -17.99 | Horizontal |
| 12010.00 | * | | | | | 74.00 | | Horizontal |
| 14412.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4804.00 | 29.31 | 31.78 | 8.60 | 32.09 | 37.60 | 54.00 | -16.40 | Vertical |
| 7206.00 | 24.53 | 36.15 | 11.65 | 32.00 | 40.33 | 54.00 | -13.67 | Vertical |
| 9608.00 | 23.97 | 37.95 | 14.14 | 31.62 | 44.44 | 54.00 | -9.56 | Vertical |
| 12010.00 | * | | | | | 54.00 | | Vertical |
| 14412.00 | * | | | | | 54.00 | | Vertical |
| 4804.00 | 32.78 | 31.78 | 8.60 | 32.09 | 41.07 | 54.00 | -12.93 | Horizontal |
| 7206.00 | 24.23 | 36.15 | 11.65 | 32.00 | 40.03 | 54.00 | -13.97 | Horizontal |
| 9608.00 | 23.66 | 37.95 | 14.14 | 31.62 | 44.13 | 54.00 | -9.87 | Horizontal |
| 12010.00 | * | | | | | 54.00 | | Horizontal |
| 14412.00 | * | | | | | 54.00 | | Horizontal |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “*”, means this data is the too weak instrument of signal is unable to test.

| | |
|---------------|----------------------|
| Test channel: | Middle channel -GFSK |
|---------------|----------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4882.00 | 39.72 | 31.85 | 8.67 | 32.12 | 48.12 | 74.00 | -25.88 | Vertical |
| 7323.00 | 33.15 | 36.37 | 11.72 | 31.89 | 49.35 | 74.00 | -24.65 | Vertical |
| 9764.00 | 31.47 | 38.35 | 14.25 | 31.62 | 52.45 | 74.00 | -21.55 | Vertical |
| 12205.00 | * | | | | | 74.00 | | Vertical |
| 14646.00 | * | | | | | 74.00 | | Vertical |
| 4882.00 | 41.61 | 31.85 | 8.67 | 32.12 | 50.01 | 74.00 | -23.99 | Horizontal |
| 7323.00 | 33.14 | 36.37 | 11.72 | 31.89 | 49.34 | 74.00 | -24.66 | Horizontal |
| 9764.00 | 30.88 | 38.35 | 14.25 | 31.62 | 51.86 | 74.00 | -22.14 | Horizontal |
| 12205.00 | * | | | | | 74.00 | | Horizontal |
| 14646.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4882.00 | 28.41 | 31.85 | 8.67 | 32.12 | 36.81 | 54.00 | -17.19 | Vertical |
| 7323.00 | 24.03 | 36.37 | 11.72 | 31.89 | 40.23 | 54.00 | -13.77 | Vertical |
| 9764.00 | 21.98 | 38.35 | 14.25 | 31.62 | 42.96 | 54.00 | -11.04 | Vertical |
| 12205.00 | * | | | | | 54.00 | | Vertical |
| 14646.00 | * | | | | | 54.00 | | Vertical |
| 4882.00 | 34.53 | 31.85 | 8.67 | 32.12 | 42.93 | 54.00 | -11.07 | Horizontal |
| 7323.00 | 25.75 | 36.37 | 11.72 | 31.89 | 41.95 | 54.00 | -12.05 | Horizontal |
| 9764.00 | 23.28 | 38.35 | 14.25 | 31.62 | 44.26 | 54.00 | -9.74 | Horizontal |
| 12205.00 | * | | | | | 54.00 | | Horizontal |
| 14646.00 | * | | | | | 54.00 | | Horizontal |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “*”, means this data is the too weak instrument of signal is unable to test.

| | |
|---------------|-----------------------|
| Test channel: | Highest channel -GFSK |
|---------------|-----------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4960.00 | 38.48 | 31.93 | 8.73 | 32.16 | 46.98 | 74.00 | -27.02 | Vertical |
| 7440.00 | 34.03 | 36.59 | 11.79 | 31.78 | 50.63 | 74.00 | -23.37 | Vertical |
| 9920.00 | 31.77 | 38.81 | 14.38 | 31.88 | 53.08 | 74.00 | -20.92 | Vertical |
| 12400.00 | * | | | | | 74.00 | | Vertical |
| 14880.00 | * | | | | | 74.00 | | Vertical |
| 4960.00 | 40.67 | 31.93 | 8.73 | 32.16 | 49.17 | 74.00 | -24.83 | Horizontal |
| 7440.00 | 33.64 | 36.59 | 11.79 | 31.78 | 50.24 | 74.00 | -23.76 | Horizontal |
| 9920.00 | 32.86 | 38.81 | 14.38 | 31.88 | 54.17 | 74.00 | -19.83 | Horizontal |
| 12400.00 | * | | | | | 74.00 | | Horizontal |
| 14880.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4960.00 | 29.65 | 31.93 | 8.73 | 32.16 | 38.15 | 54.00 | -15.85 | Vertical |
| 7440.00 | 24.79 | 36.59 | 11.79 | 31.78 | 41.39 | 54.00 | -12.61 | Vertical |
| 9920.00 | 22.33 | 38.81 | 14.38 | 31.88 | 43.64 | 54.00 | -10.36 | Vertical |
| 12400.00 | * | | | | | 54.00 | | Vertical |
| 14880.00 | * | | | | | 54.00 | | Vertical |
| 4960.00 | 32.75 | 31.93 | 8.73 | 32.16 | 41.25 | 54.00 | -12.75 | Horizontal |
| 7440.00 | 24.78 | 36.59 | 11.79 | 31.78 | 41.38 | 54.00 | -12.62 | Horizontal |
| 9920.00 | 24.26 | 38.81 | 14.38 | 31.88 | 45.57 | 54.00 | -8.43 | Horizontal |
| 12400.00 | * | | | | | 54.00 | | Horizontal |
| 14880.00 | * | | | | | 54.00 | | Horizontal |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “*”, means this data is the too weak instrument of signal is unable to test.

| | |
|---------------|--------------------------------|
| Test channel: | Lowest channel- $\pi/4$ -DQPSK |
|---------------|--------------------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4804.00 | 39.62 | 31.78 | 8.60 | 32.09 | 47.91 | 74.00 | -26.09 | Vertical |
| 7206.00 | 33.43 | 36.15 | 11.65 | 32.00 | 49.23 | 74.00 | -24.77 | Vertical |
| 9608.00 | 30.28 | 37.95 | 14.14 | 31.62 | 50.75 | 74.00 | -23.25 | Vertical |
| 12010.00 | * | | | | | 74.00 | | Vertical |
| 14412.00 | * | | | | | 74.00 | | Vertical |
| 4804.00 | 43.21 | 31.78 | 8.60 | 32.09 | 51.50 | 74.00 | -22.50 | Horizontal |
| 7206.00 | 34.92 | 36.15 | 11.65 | 32.00 | 50.72 | 74.00 | -23.28 | Horizontal |
| 9608.00 | 31.67 | 37.95 | 14.14 | 31.62 | 52.14 | 74.00 | -21.86 | Horizontal |
| 12010.00 | * | | | | | 74.00 | | Horizontal |
| 14412.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4804.00 | 30.64 | 31.78 | 8.60 | 32.09 | 38.93 | 54.00 | -15.07 | Vertical |
| 7206.00 | 25.82 | 36.15 | 11.65 | 32.00 | 41.62 | 54.00 | -12.38 | Vertical |
| 9608.00 | 24.06 | 37.95 | 14.14 | 31.62 | 44.53 | 54.00 | -9.47 | Vertical |
| 12010.00 | * | | | | | 54.00 | | Vertical |
| 14412.00 | * | | | | | 54.00 | | Vertical |
| 4804.00 | 32.84 | 31.78 | 8.60 | 32.09 | 41.13 | 54.00 | -12.87 | Horizontal |
| 7206.00 | 27.29 | 36.15 | 11.65 | 32.00 | 43.09 | 54.00 | -10.91 | Horizontal |
| 9608.00 | 26.38 | 37.95 | 14.14 | 31.62 | 46.85 | 54.00 | -7.15 | Horizontal |
| 12010.00 | * | | | | | 54.00 | | Horizontal |
| 14412.00 | * | | | | | 54.00 | | Horizontal |

Remark:

4. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor*
5. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
6. *“*”, means this data is the too weak instrument of signal is unable to test.*

| | |
|---------------|---------------------------------|
| Test channel: | Middle channel - $\pi/4$ -DQPSK |
|---------------|---------------------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4882.00 | 38.41 | 31.85 | 8.67 | 32.12 | 46.81 | 74.00 | -27.19 | Vertical |
| 7323.00 | 35.08 | 36.37 | 11.72 | 31.89 | 51.28 | 74.00 | -22.72 | Vertical |
| 9764.00 | 34.18 | 38.35 | 14.25 | 31.62 | 55.16 | 74.00 | -18.84 | Vertical |
| 12205.00 | * | | | | | 74.00 | | Vertical |
| 14646.00 | * | | | | | 74.00 | | Vertical |
| 4882.00 | 42.12 | 31.85 | 8.67 | 32.12 | 50.52 | 74.00 | -23.48 | Horizontal |
| 7323.00 | 35.57 | 36.37 | 11.72 | 31.89 | 51.77 | 74.00 | -22.23 | Horizontal |
| 9764.00 | 31.61 | 38.35 | 14.25 | 31.62 | 52.59 | 74.00 | -21.41 | Horizontal |
| 12205.00 | * | | | | | 74.00 | | Horizontal |
| 14646.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4882.00 | 30.82 | 31.85 | 8.67 | 32.12 | 39.22 | 54.00 | -14.78 | Vertical |
| 7323.00 | 25.24 | 36.37 | 11.72 | 31.89 | 41.44 | 54.00 | -12.56 | Vertical |
| 9764.00 | 24.36 | 38.35 | 14.25 | 31.62 | 45.34 | 54.00 | -8.66 | Vertical |
| 12205.00 | * | | | | | 54.00 | | Vertical |
| 14646.00 | * | | | | | 54.00 | | Vertical |
| 4882.00 | 34.27 | 31.85 | 8.67 | 32.12 | 42.67 | 54.00 | -11.33 | Horizontal |
| 7323.00 | 27.54 | 36.37 | 11.72 | 31.89 | 43.74 | 54.00 | -10.26 | Horizontal |
| 9764.00 | 24.99 | 38.35 | 14.25 | 31.62 | 45.97 | 54.00 | -8.03 | Horizontal |
| 12205.00 | * | | | | | 54.00 | | Horizontal |
| 14646.00 | * | | | | | 54.00 | | Horizontal |

Remark:

4. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
5. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
6. *“*” , means this data is the too weak instrument of signal is unable to test.*

| | |
|---------------|----------------------------------|
| Test channel: | Highest channel - $\pi/4$ -DQPSK |
|---------------|----------------------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4960.00 | 39.24 | 31.93 | 8.73 | 32.16 | 47.74 | 74.00 | -26.26 | Vertical |
| 7440.00 | 33.78 | 36.59 | 11.79 | 31.78 | 50.38 | 74.00 | -23.62 | Vertical |
| 9920.00 | 31.02 | 38.81 | 14.38 | 31.88 | 52.33 | 74.00 | -21.67 | Vertical |
| 12400.00 | * | | | | | 74.00 | | Vertical |
| 14880.00 | * | | | | | 74.00 | | Vertical |
| 4960.00 | 43.36 | 31.93 | 8.73 | 32.16 | 51.86 | 74.00 | -22.14 | Horizontal |
| 7440.00 | 32.79 | 36.59 | 11.79 | 31.78 | 49.39 | 74.00 | -24.61 | Horizontal |
| 9920.00 | 32.62 | 38.81 | 14.38 | 31.88 | 53.93 | 74.00 | -20.07 | Horizontal |
| 12400.00 | * | | | | | 74.00 | | Horizontal |
| 14880.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4960.00 | 29.41 | 31.93 | 8.73 | 32.16 | 37.91 | 54.00 | -16.09 | Vertical |
| 7440.00 | 24.68 | 36.59 | 11.79 | 31.78 | 41.28 | 54.00 | -12.72 | Vertical |
| 9920.00 | 21.82 | 38.81 | 14.38 | 31.88 | 43.13 | 54.00 | -10.87 | Vertical |
| 12400.00 | * | | | | | 54.00 | | Vertical |
| 14880.00 | * | | | | | 54.00 | | Vertical |
| 4960.00 | 34.75 | 31.93 | 8.73 | 32.16 | 43.25 | 54.00 | -10.75 | Horizontal |
| 7440.00 | 26.09 | 36.59 | 11.79 | 31.78 | 42.69 | 54.00 | -11.31 | Horizontal |
| 9920.00 | 21.18 | 38.81 | 14.38 | 31.88 | 42.49 | 54.00 | -11.51 | Horizontal |
| 12400.00 | * | | | | | 54.00 | | Horizontal |
| 14880.00 | * | | | | | 54.00 | | Horizontal |

Remark:

4. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
5. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
6. *“*”, means this data is the too weak instrument of signal is unable to test.*

| | |
|---------------|-----------------------|
| Test channel: | Lowest channel-8-DPSK |
|---------------|-----------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4804.00 | 40.56 | 31.78 | 8.60 | 32.09 | 48.85 | 74.00 | -25.15 | Vertical |
| 7206.00 | 32.48 | 36.15 | 11.65 | 32.00 | 48.28 | 74.00 | -25.72 | Vertical |
| 9608.00 | 29.65 | 37.95 | 14.14 | 31.62 | 50.12 | 74.00 | -23.88 | Vertical |
| 12010.00 | * | | | | | 74.00 | | Vertical |
| 14412.00 | * | | | | | 74.00 | | Vertical |
| 4804.00 | 37.57 | 31.78 | 8.60 | 32.09 | 45.86 | 74.00 | -28.14 | Horizontal |
| 7206.00 | 34.21 | 36.15 | 11.65 | 32.00 | 50.01 | 74.00 | -23.99 | Horizontal |
| 9608.00 | 34.68 | 37.95 | 14.14 | 31.62 | 55.15 | 74.00 | -18.85 | Horizontal |
| 12010.00 | * | | | | | 74.00 | | Horizontal |
| 14412.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4804.00 | 29.72 | 31.78 | 8.60 | 32.09 | 38.01 | 54.00 | -15.99 | Vertical |
| 7206.00 | 24.03 | 36.15 | 11.65 | 32.00 | 39.83 | 54.00 | -14.17 | Vertical |
| 9608.00 | 21.68 | 37.95 | 14.14 | 31.62 | 42.15 | 54.00 | -11.85 | Vertical |
| 12010.00 | * | | | | | 54.00 | | Vertical |
| 14412.00 | * | | | | | 54.00 | | Vertical |
| 4804.00 | 33.17 | 31.78 | 8.60 | 32.09 | 41.46 | 54.00 | -12.54 | Horizontal |
| 7206.00 | 25.48 | 36.15 | 11.65 | 32.00 | 41.28 | 54.00 | -12.72 | Horizontal |
| 9608.00 | 23.85 | 37.95 | 14.14 | 31.62 | 44.32 | 54.00 | -9.68 | Horizontal |
| 12010.00 | * | | | | | 54.00 | | Horizontal |
| 14412.00 | * | | | | | 54.00 | | Horizontal |

Remark:

7. $Final\ Level = Receiver\ Read\ level + Antenna\ Factor + Cable\ Loss - Preamp\ lifier\ Factor$
8. The emission levels of other frequencies are very lower than the limit and not show in test report.
9. “*”, means this data is the too weak instrument of signal is unable to test.

| | |
|---------------|------------------------|
| Test channel: | Middle channel -8-DPSK |
|---------------|------------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4882.00 | 40.21 | 31.85 | 8.67 | 32.12 | 48.61 | 74.00 | -25.39 | Vertical |
| 7323.00 | 35.70 | 36.37 | 11.72 | 31.89 | 51.90 | 74.00 | -22.10 | Vertical |
| 9764.00 | 32.86 | 38.35 | 14.25 | 31.62 | 53.84 | 74.00 | -20.16 | Vertical |
| 12205.00 | * | | | | | 74.00 | | Vertical |
| 14646.00 | * | | | | | 74.00 | | Vertical |
| 4882.00 | 37.46 | 31.85 | 8.67 | 32.12 | 45.86 | 74.00 | -28.14 | Horizontal |
| 7323.00 | 30.33 | 36.37 | 11.72 | 31.89 | 46.53 | 74.00 | -27.47 | Horizontal |
| 9764.00 | 30.05 | 38.35 | 14.25 | 31.62 | 51.03 | 74.00 | -22.97 | Horizontal |
| 12205.00 | * | | | | | 74.00 | | Horizontal |
| 14646.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4882.00 | 30.48 | 31.85 | 8.67 | 32.12 | 38.88 | 54.00 | -15.12 | Vertical |
| 7323.00 | 24.59 | 36.37 | 11.72 | 31.89 | 40.79 | 54.00 | -13.21 | Vertical |
| 9764.00 | 21.61 | 38.35 | 14.25 | 31.62 | 42.59 | 54.00 | -11.41 | Vertical |
| 12205.00 | * | | | | | 54.00 | | Vertical |
| 14646.00 | * | | | | | 54.00 | | Vertical |
| 4882.00 | 34.93 | 31.85 | 8.67 | 32.12 | 43.33 | 54.00 | -10.67 | Horizontal |
| 7323.00 | 26.89 | 36.37 | 11.72 | 31.89 | 43.09 | 54.00 | -10.91 | Horizontal |
| 9764.00 | 24.30 | 38.35 | 14.25 | 31.62 | 45.28 | 54.00 | -8.72 | Horizontal |
| 12205.00 | * | | | | | 54.00 | | Horizontal |
| 14646.00 | * | | | | | 54.00 | | Horizontal |

Remark:

7. $Final\ Level = Receiver\ Read\ level + Antenna\ Factor + Cable\ Loss - Preamp\ lifier\ Factor$
8. The emission levels of other frequencies are very lower than the limit and not show in test report.
9. "*", means this data is the too weak instrument of signal is unable to test.

| | |
|---------------|------------------------|
| Test channel: | Highest channel -8DPSK |
|---------------|------------------------|

Peak value:

| Frequency (MHz) | Read Level (dBUV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBUV/m) | Limit Line (dBUV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4960.00 | 38.92 | 31.93 | 8.73 | 32.16 | 47.42 | 74.00 | -26.58 | Vertical |
| 7440.00 | 36.30 | 36.59 | 11.79 | 31.78 | 52.90 | 74.00 | -21.10 | Vertical |
| 9920.00 | 31.43 | 38.81 | 14.38 | 31.88 | 52.74 | 74.00 | -21.26 | Vertical |
| 12400.00 | * | | | | | 74.00 | | Vertical |
| 14880.00 | * | | | | | 74.00 | | Vertical |
| 4960.00 | 41.87 | 31.93 | 8.73 | 32.16 | 50.37 | 74.00 | -23.63 | Horizontal |
| 7440.00 | 36.92 | 36.59 | 11.79 | 31.78 | 53.52 | 74.00 | -20.48 | Horizontal |
| 9920.00 | 35.56 | 38.81 | 14.38 | 31.88 | 56.87 | 74.00 | -17.13 | Horizontal |
| 12400.00 | * | | | | | 74.00 | | Horizontal |
| 14880.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBUV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBUV/m) | Limit Line (dBUV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4960.00 | 30.66 | 31.93 | 8.73 | 32.16 | 39.16 | 54.00 | -14.84 | Vertical |
| 7440.00 | 26.83 | 36.59 | 11.79 | 31.78 | 43.43 | 54.00 | -10.57 | Vertical |
| 9920.00 | 25.02 | 38.81 | 14.38 | 31.88 | 46.33 | 54.00 | -7.67 | Vertical |
| 12400.00 | * | | | | | 54.00 | | Vertical |
| 14880.00 | * | | | | | 54.00 | | Vertical |
| 4960.00 | 35.59 | 31.93 | 8.73 | 32.16 | 44.09 | 54.00 | -9.91 | Horizontal |
| 7440.00 | 28.16 | 36.59 | 11.79 | 31.78 | 44.76 | 54.00 | -9.24 | Horizontal |
| 9920.00 | 23.77 | 38.81 | 14.38 | 31.88 | 45.08 | 54.00 | -8.92 | Horizontal |
| 12400.00 | * | | | | | 54.00 | | Horizontal |
| 14880.00 | * | | | | | 54.00 | | Horizontal |

Remark:

7. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
8. The emission levels of other frequencies are very lower than the limit and not show in test report.
9. “*”, means this data is the too weak instrument of signal is unable to test.

7.3.3 Bandedge emissions

| | |
|---------------|----------------------|
| Test channel: | Lowest channel -GFSK |
|---------------|----------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 43.11 | 27.59 | 5.38 | 30.18 | 18.31 | 74.00 | -55.69 | Horizontal |
| 2400.00 | 55.06 | 27.58 | 5.39 | 30.18 | 57.85 | 74.00 | -16.15 | Horizontal |
| 2390.00 | 44.65 | 27.59 | 5.38 | 30.18 | 47.44 | 74.00 | -26.56 | Vertical |
| 2400.00 | 43.78 | 27.58 | 5.39 | 30.18 | 46.57 | 74.00 | -27.43 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 33.41 | 27.59 | 5.38 | 30.18 | 36.20 | 54.00 | -17.80 | Horizontal |
| 2400.00 | 33.34 | 27.58 | 5.39 | 30.18 | 36.13 | 54.00 | -17.87 | Horizontal |
| 2390.00 | 33.52 | 27.59 | 5.38 | 30.18 | 36.31 | 54.00 | -17.69 | Vertical |
| 2400.00 | 35.89 | 27.58 | 5.39 | 30.18 | 38.68 | 54.00 | -15.32 | Vertical |

| | |
|---------------|-----------------------|
| Test channel: | Highest channel -GFSK |
|---------------|-----------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 45.34 | 27.53 | 5.47 | 29.93 | 20.88 | 74.00 | -53.12 | Horizontal |
| 2500.00 | 43.32 | 27.55 | 5.49 | 29.93 | 46.43 | 74.00 | -27.57 | Horizontal |
| 2483.50 | 44.66 | 27.53 | 5.47 | 29.93 | 47.73 | 74.00 | -26.27 | Vertical |
| 2500.00 | 45.49 | 27.55 | 5.49 | 29.93 | 48.60 | 74.00 | -25.40 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 32.52 | 27.53 | 5.47 | 29.93 | 35.59 | 54.00 | -18.41 | Horizontal |
| 2500.00 | 33.53 | 27.55 | 5.49 | 29.93 | 36.64 | 54.00 | -17.36 | Horizontal |
| 2483.50 | 32.82 | 27.53 | 5.47 | 29.93 | 35.89 | 54.00 | -18.11 | Vertical |
| 2500.00 | 33.12 | 27.55 | 5.49 | 29.93 | 36.23 | 54.00 | -17.77 | Vertical |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor

| | |
|---------------|---------------------------------|
| Test channel: | Lowest channel - $\pi/4$ -DQPSK |
|---------------|---------------------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 41.87 | 27.59 | 5.38 | 30.18 | 17.07 | 74.00 | -56.93 | Horizontal |
| 2400.00 | 58.30 | 27.58 | 5.39 | 30.18 | 61.09 | 74.00 | -12.91 | Horizontal |
| 2390.00 | 42.76 | 27.59 | 5.38 | 30.18 | 45.55 | 74.00 | -28.45 | Vertical |
| 2400.00 | 58.28 | 27.58 | 5.39 | 30.18 | 61.07 | 74.00 | -12.93 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 31.04 | 27.59 | 5.38 | 30.18 | 33.83 | 54.00 | -20.17 | Horizontal |
| 2400.00 | 41.56 | 27.58 | 5.39 | 30.18 | 44.35 | 54.00 | -9.65 | Horizontal |
| 2390.00 | 30.48 | 27.59 | 5.38 | 30.18 | 33.27 | 54.00 | -20.73 | Vertical |
| 2400.00 | 43.77 | 27.58 | 5.39 | 30.18 | 46.56 | 54.00 | -7.44 | Vertical |

| | |
|---------------|----------------------------------|
| Test channel: | Highest channel - $\pi/4$ -DQPSK |
|---------------|----------------------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 40.75 | 27.53 | 5.47 | 29.93 | 16.29 | 74.00 | -57.71 | Horizontal |
| 2500.00 | 40.45 | 27.55 | 5.49 | 29.93 | 43.56 | 74.00 | -30.44 | Horizontal |
| 2483.50 | 41.34 | 27.53 | 5.47 | 29.93 | 44.41 | 74.00 | -29.59 | Vertical |
| 2500.00 | 41.63 | 27.55 | 5.49 | 29.93 | 44.74 | 74.00 | -29.26 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 34.38 | 27.53 | 5.47 | 29.93 | 37.45 | 54.00 | -16.55 | Horizontal |
| 2500.00 | 36.57 | 27.55 | 5.49 | 29.93 | 39.68 | 54.00 | -14.32 | Horizontal |
| 2483.50 | 34.11 | 27.53 | 5.47 | 29.93 | 37.18 | 54.00 | -16.82 | Vertical |
| 2500.00 | 32.26 | 27.55 | 5.49 | 29.93 | 35.37 | 54.00 | -18.63 | Vertical |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor

| | |
|---------------|------------------------|
| Test channel: | Lowest channel -8-DPSK |
|---------------|------------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 39.82 | 27.59 | 5.38 | 30.18 | 15.02 | 74.00 | -58.98 | Horizontal |
| 2400.00 | 53.74 | 27.58 | 5.39 | 30.18 | 56.53 | 74.00 | -17.47 | Horizontal |
| 2390.00 | 40.69 | 27.59 | 5.38 | 30.18 | 43.48 | 74.00 | -30.52 | Vertical |
| 2400.00 | 53.48 | 27.58 | 5.39 | 30.18 | 56.27 | 74.00 | -17.73 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 33.38 | 27.59 | 5.38 | 30.18 | 36.17 | 54.00 | -17.83 | Horizontal |
| 2400.00 | 41.61 | 27.58 | 5.39 | 30.18 | 44.40 | 54.00 | -9.60 | Horizontal |
| 2390.00 | 33.04 | 27.59 | 5.38 | 30.18 | 35.83 | 54.00 | -18.17 | Vertical |
| 2400.00 | 43.87 | 27.58 | 5.39 | 30.18 | 46.66 | 54.00 | -7.34 | Vertical |

| | |
|---------------|-------------------------|
| Test channel: | Highest channel -8-DPSK |
|---------------|-------------------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 45.11 | 27.53 | 5.47 | 29.93 | 20.65 | 74.00 | -53.35 | Horizontal |
| 2500.00 | 45.80 | 27.55 | 5.49 | 29.93 | 48.91 | 74.00 | -25.09 | Horizontal |
| 2483.50 | 44.62 | 27.53 | 5.47 | 29.93 | 47.69 | 74.00 | -26.31 | Vertical |
| 2500.00 | 42.53 | 27.55 | 5.49 | 29.93 | 45.64 | 74.00 | -28.36 | Vertical |

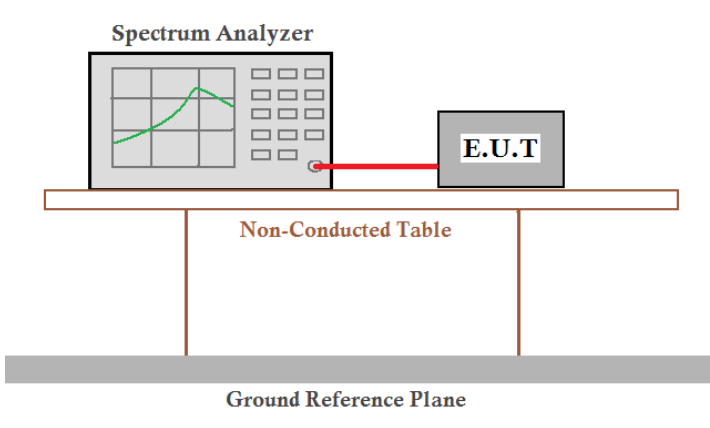
Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 32.85 | 27.53 | 5.47 | 29.93 | 35.92 | 54.00 | -18.08 | Horizontal |
| 2500.00 | 33.10 | 27.55 | 5.49 | 29.93 | 36.21 | 54.00 | -17.79 | Horizontal |
| 2483.50 | 34.15 | 27.53 | 5.47 | 29.93 | 37.22 | 54.00 | -16.78 | Vertical |
| 2500.00 | 35.28 | 27.55 | 5.49 | 29.93 | 38.39 | 54.00 | -15.61 | Vertical |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor

7.4 20dB Occupy Bandwidth

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.249/15.215 |
| Test Method: | ANSI C63.10:2013 |
| Limit: | Operation Frequency range 2400MHz~2483.5MHz |
| Test setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

Measurement Data

| | | | |
|----------------|--|---------------------|---------|
| EUT : | 40W Wall Mount Music Amplifier with Touch Screen | Model Name. : | 36375 |
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Test Voltage : | AC 120V/60Hz | Pressure : | 1010hPa |
| Test Mode : | Transmitting mode(GFSK, $\pi/4$ -DQPSK, 8-DPSK) | | |

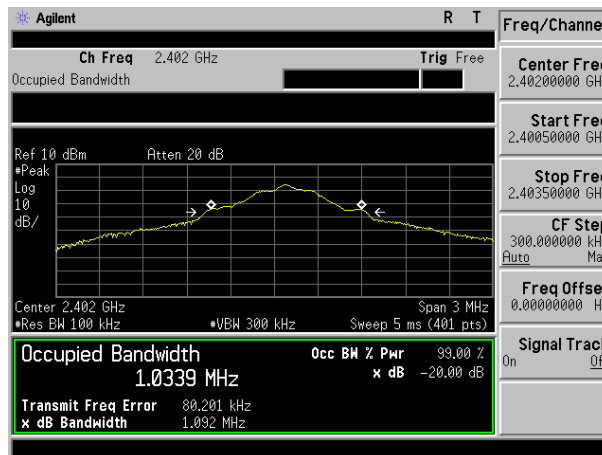
| | Test channel | 20dB bandwidth(MHz) | Result |
|------|--------------|---------------------|--------|
| GFSK | Lowest | 1.092 | Pass |
| | Middle | 1.094 | Pass |
| | Highest | 1.099 | Pass |

| | Test channel | 20dB bandwidth(MHz) | Result |
|----------------|--------------|---------------------|--------|
| $\pi/4$ -DQPSK | Lowest | 1.196 | Pass |
| | Middle | 1.206 | Pass |
| | Highest | 1.194 | Pass |

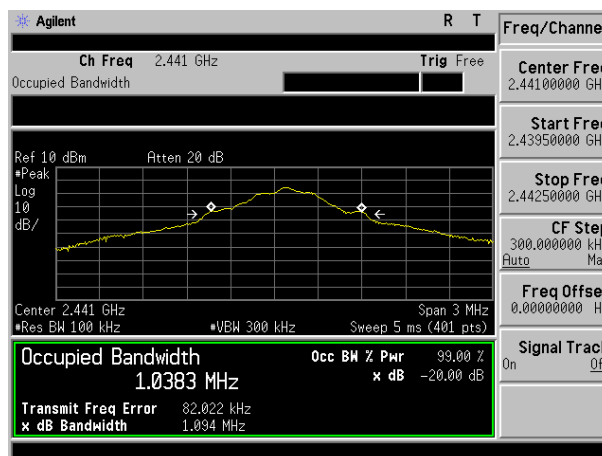
| | Test channel | 20dB bandwidth(MHz) | Result |
|--------|--------------|---------------------|--------|
| 8-DPSK | Lowest | 1.261 | Pass |
| | Middle | 1.260 | Pass |
| | Highest | 1.268 | Pass |

Test plot as follows:

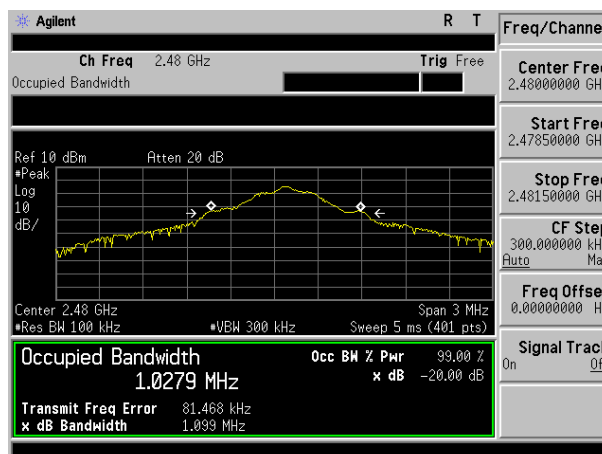
GFSK



Lowest channel

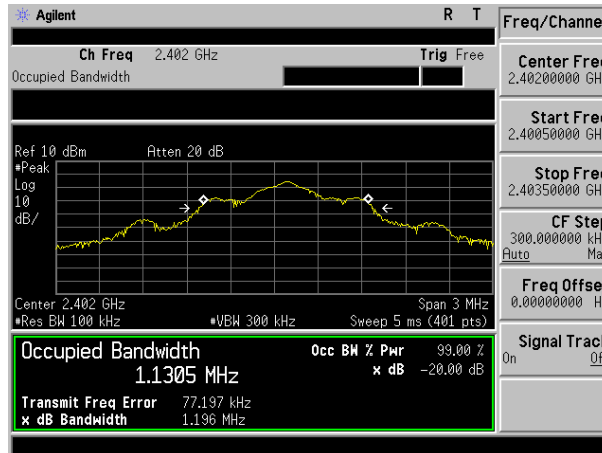


Middle channel

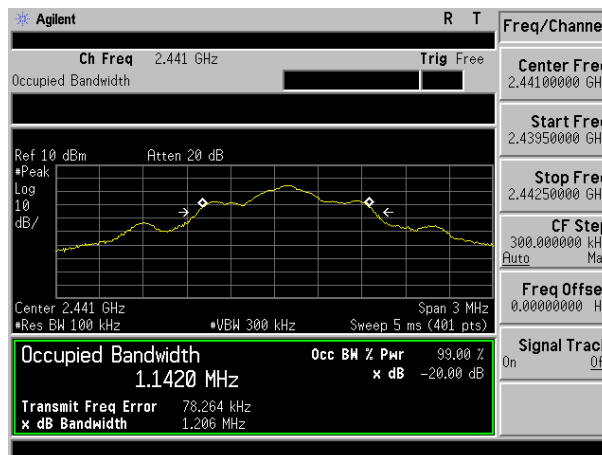


Highest channel

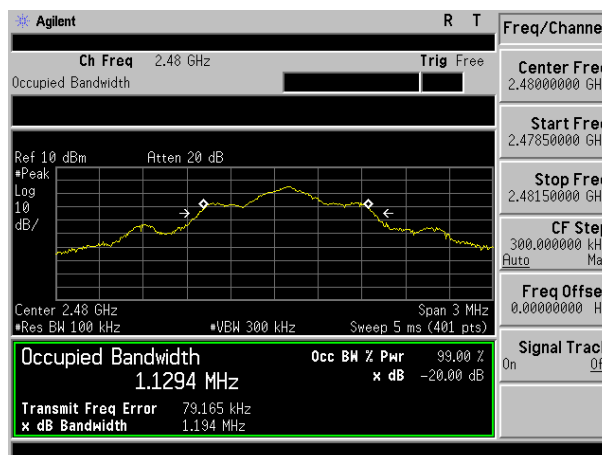
$\pi/4$ -DQPSK



Lowest channel

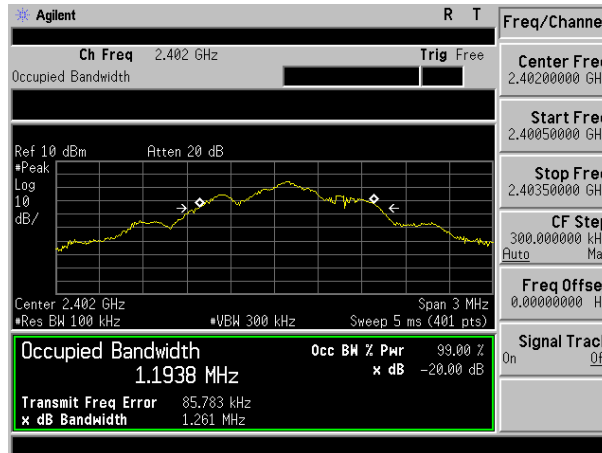


Middle channel

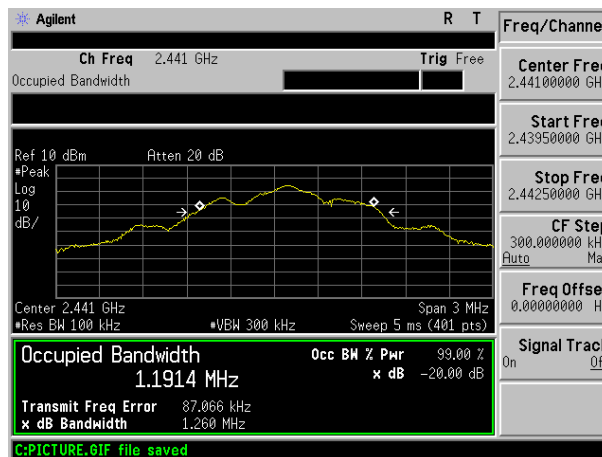


Highest channel

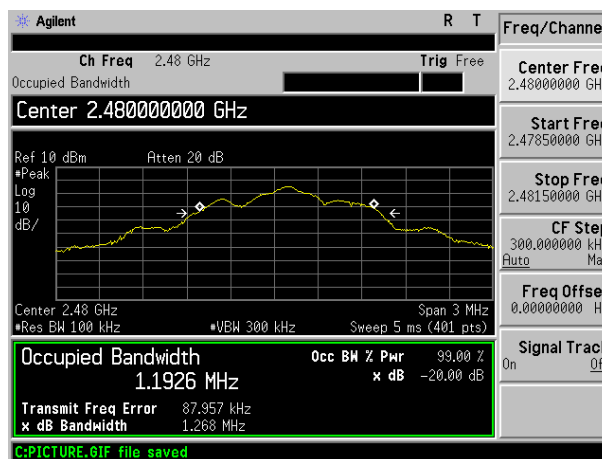
8-DPSK



Lowest channel



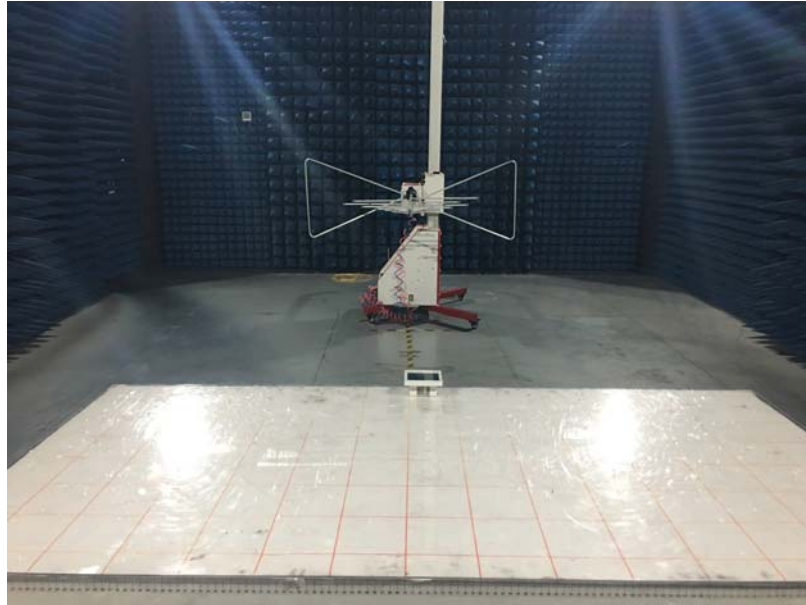
Middle channel



Highest channel

8 Test Setup Photo

Radiated Emission

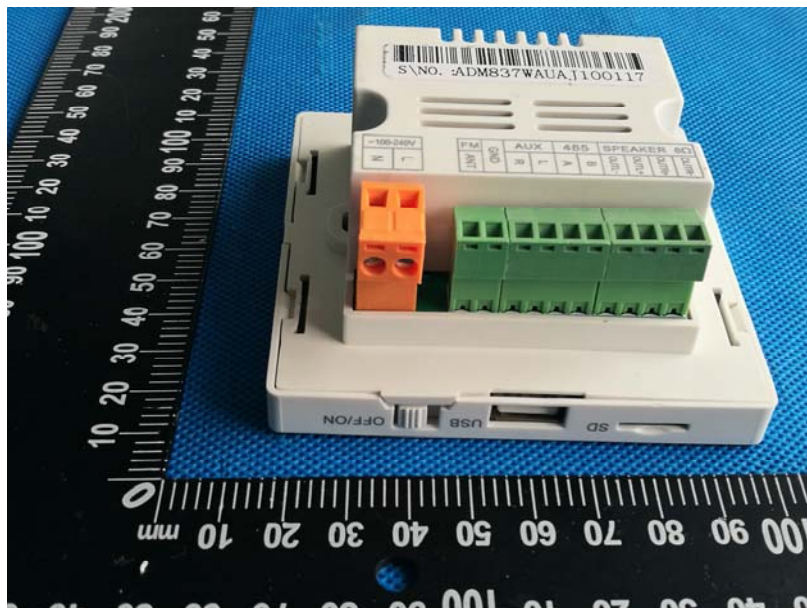


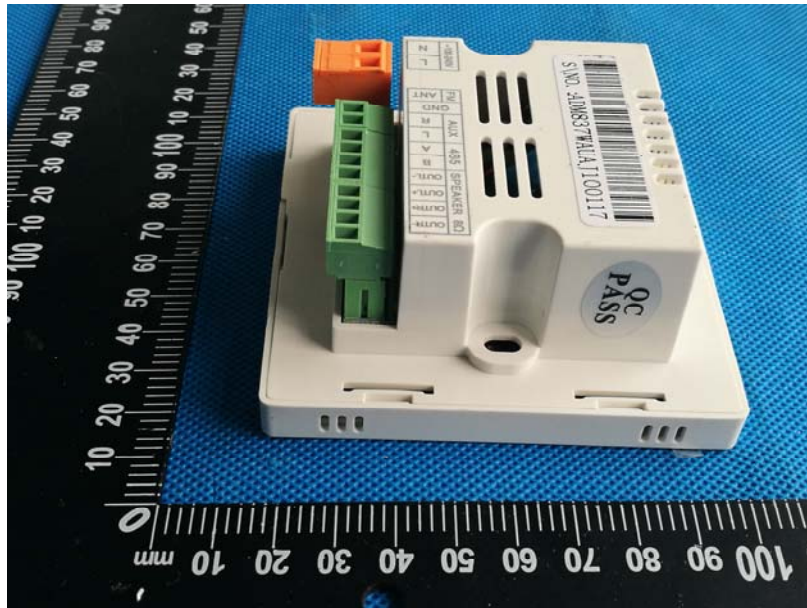
Conducted Emission

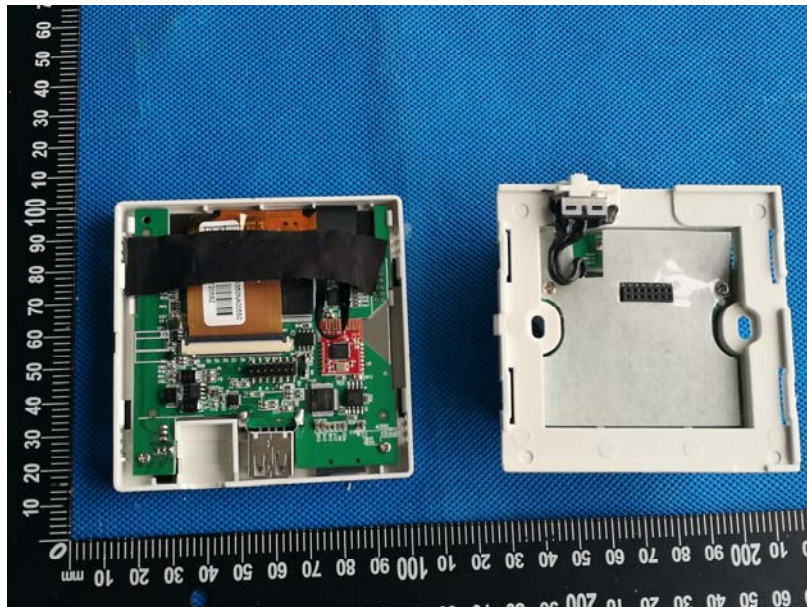


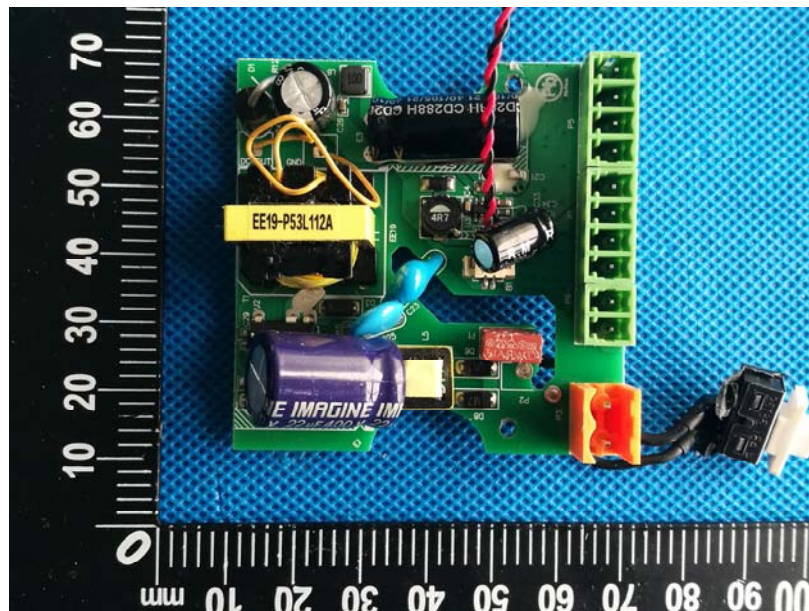
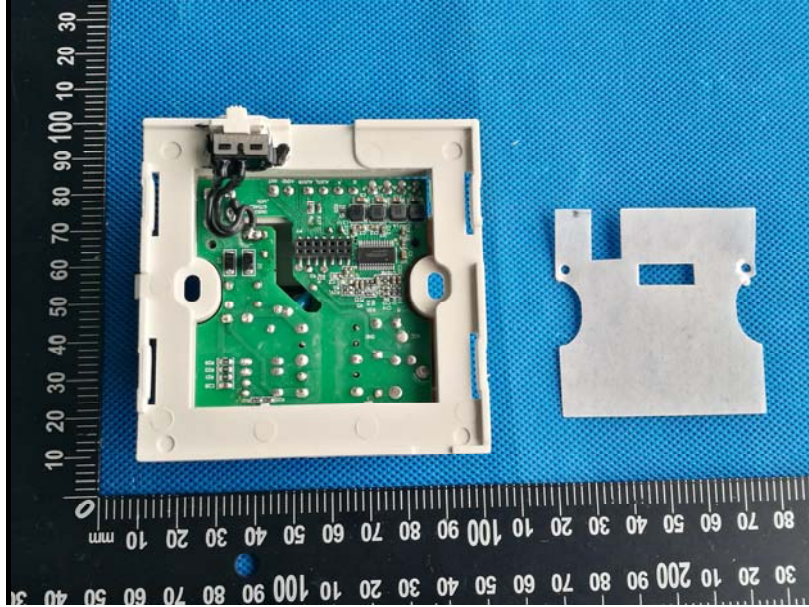
9 EUT Constructional Details

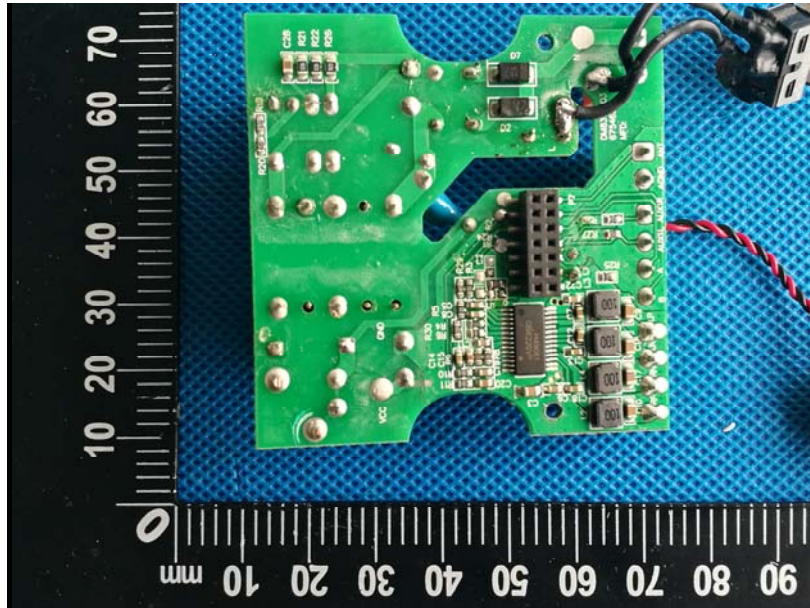


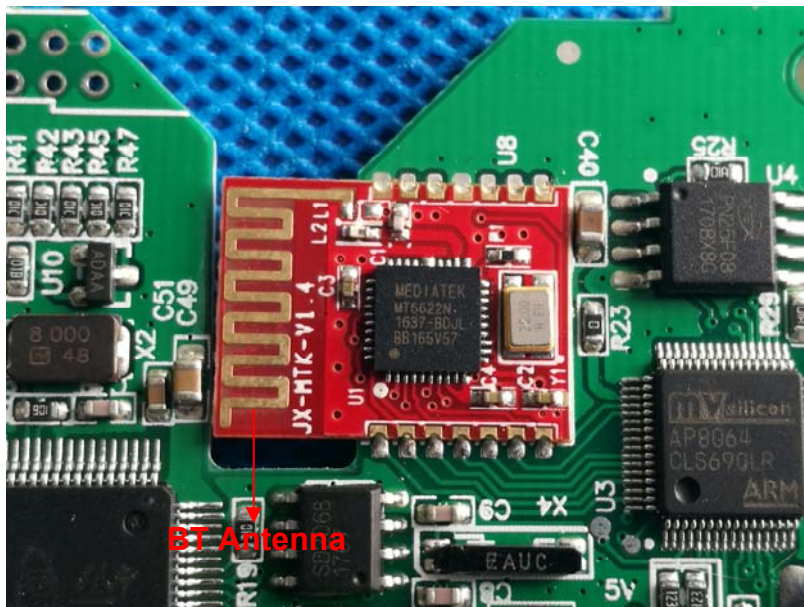
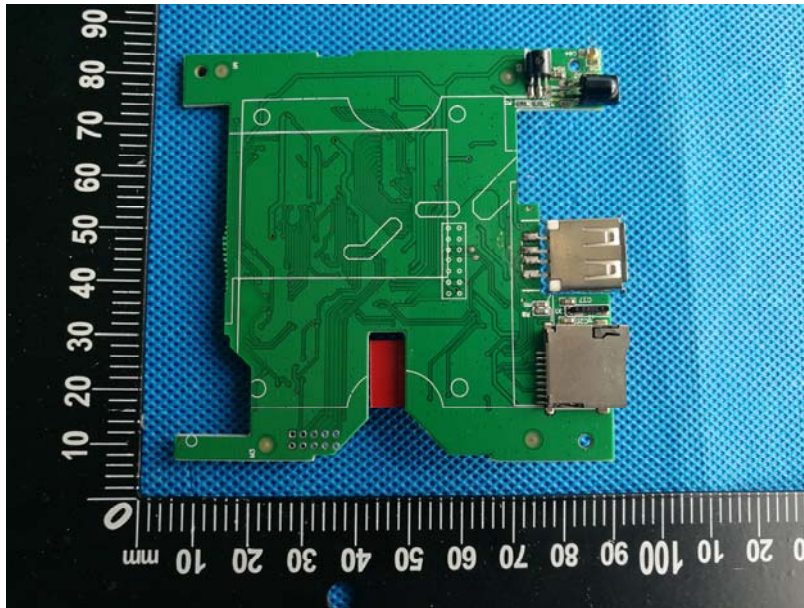












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