



TEST REPORT

Application No.:

GZCR2109021139AT

Applicant:

PAX Technology Limited

Address of Applicant:

Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong, China

Manufacturer:

PAX Computer Technology(Shenzhen) Co., Ltd.

Address of Manufacturer:

4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.

Equipment Under Test (EUT):

EUT Name: Mobile Payment Cell Phone

Model No.: M50

Trade Mark: PAX

Standard(s) : 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2021-09-16

Date of Test: 2021-09-17 to 2021-10-12

Date of Issue: 2021-10-18

Test Result:

Pass*

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

Kobe Jian
EMC Laboratory Manager



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021-10-18 | | Original |
| | | | | |
| | | | | |

| | | | |
|-------------------------|---|---------------------------|--|
| Authorized for issue by | | | |
| |  | Curry Wu/Project Engineer | |
| |  | Ricky Liu/Reviewer | |

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2 Test Summary

| Radio Spectrum Matter Part | | | | |
|---|----------------------------------|------------------------------------|---|--------|
| Item | Standard | Method | Requirement | Result |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions (Below 1GHz) | | ANSI C63.10 (2013) Section 6.4,6.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions (Above 1GHz) | | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Remark: This report is only valid with SZEM201201302802, by comparison with previous report, this report just changed as below:

1. The middle frame changed from rounded corners to right angles.
2. Power key and volume key position changed.
3. The material of battery cover changed from plastic to glass.

Considering the difference above, Radiated Emissions which fall in the restricted bands & Radiated Spurious Emissions were re-tested.

For other test data, please refer to previous report.



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3 Contents

| | Page |
|---|------|
| 1 Cover Page | 1 |
| 2 Test Summary..... | 3 |
| 3 Contents | 4 |
| 4 General Information..... | 5 |
| 4.1 Details of E.U.T..... | 5 |
| 4.2 Description of Support Units..... | 5 |
| 4.3 Measurement Uncertainty | 5 |
| 4.4 Test Location | 6 |
| 4.5 Test Facility..... | 6 |
| 4.6 Deviation from Standards | 7 |
| 4.7 Abnormalities from Standard Conditions..... | 7 |
| 5 Equipment List | 8 |
| 6 Radio Spectrum Matter Test Results | 10 |
| 6.1 Radiated Emissions which fall in the restricted bands | 10 |
| 6.1.1 E.U.T. Operation..... | 10 |
| 6.1.2 Test Mode Description | 10 |
| 6.1.3 Test Setup Diagram | 11 |
| 6.1.4 Measurement Procedure and Data..... | 11 |
| 6.2 Radiated Spurious Emissions (Below 1GHz) | 16 |
| 6.2.1 E.U.T. Operation..... | 16 |
| 6.2.2 Test Mode Description | 16 |
| 6.2.3 Test Setup Diagram | 17 |
| 6.2.4 Measurement Procedure and Data..... | 18 |
| 6.3 Radiated Spurious Emissions (Above 1GHz)..... | 21 |
| 6.3.1 E.U.T. Operation..... | 21 |
| 6.3.2 Test Mode Description | 21 |
| 6.3.3 Test Setup Diagram | 22 |
| 6.3.4 Measurement Procedure and Data..... | 23 |
| 7 Test Setup Photo | 30 |
| 8 EUT Constructional Details (EUT Photos)..... | 31 |



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4 General Information

4.1 Details of E.U.T.

| | |
|-----------------------------|---|
| Power supply: | DC3.85V by li-ion battery(3020mAh) |
| | Recharged by power adapter |
| | Adapter M/N: SW-0983 |
| | Adapter input: AC100-240V, 50/60Hz, 0.5A |
| | Adapter output: DC5V/2A |
| Cable(s): | USB type C cable: 1m shielded cable without ferrite core |
| Operation Frequency: | 2402MHz to 2480MHz |
| Bluetooth Version: | V5.0 Dual mode |
| Modulation Type: | GFSK, pi/4DQPSK, 8DPSK |
| Number of Channels: | 79 |
| Channel Spacing: | 1MHz |
| Spectrum Spread Technology: | Frequency Hopping Spread Spectrum(FHSS) |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 1dBi declared by applicant |
| Firmware Version: | 15.1.01 |
| Hardware Version: | M50 |
| Testing Software: | Type in *#3646633#*#* in the dial display to enter engineering mode |
| SN: | 2250000695 |
| Power Setting: | default(10dBm), can not be changed by user. |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| -- | -- | -- | -- |

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|--|
| Radiated Emissions which fall in the restricted bands | ±5.08dB (1GHz-6GHz); ±5.14dB(above 6GHz) |
| Radiated Spurious Emissions (Below 1GHz) | ±5.06dB (3m); ±4.46dB (10m) |
| Radiated Spurious Emissions (Above 1GHz) | ±5.08dB (1GHz-6GHz); ±5.14dB(above 6GHz) |

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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

| Radiated Emissions which fall in the restricted bands | | | | | |
|--|-----------------------------|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| Chamber cable(Above 1GHz) | Scoflex | KMKG-8.0m | EMC0545 | 2020-09-09 | 2022-09-08 |
| Horn Antenna(1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2019-09-25 | 2022-09-24 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| Horn Antenna(14-40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2020-06-28 | 2023-06-27 |

| Radiated Spurious Emissions (Below 1GHz) | | | | | |
|---|-----------------------------|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2020-09-09 | 2022-09-08 |
| Trilog Broadband Antenna(25MHz-1GHz)-Lab | SCHWARZBECK MESS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Amplifier(9kHz-1.3GHz) | HP | 8447F | EMC2065 | 2021-05-19 | 2022-05-18 |
| Active Loop Antenna-RED | ETS-Lindgren | 6502 | EMC2190 | 2019-12-27 | 2021-12-26 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| EMI Test Receiver(1Hz-8GHz) | Rohde & Schwarz | ESW8 | EMC2220 | 2021-05-26 | 2022-05-25 |

| Radiated Spurious Emissions (Above 1GHz) | | | | | |
|---|-----------------------------|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Chamber cable(Above 1GHz) | Scoflex | KMKG-8.0m | EMC0545 | 2020-09-09 | 2022-09-08 |
| Horn Antenna(1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2019-09-25 | 2022-09-24 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2021-01-08 | 2022-01-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |



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| | | | | | |
|------------------------|-------------|---------------|-----------|------------|------------|
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| Horn Antenna(14-40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2020-06-28 | 2023-06-27 |

General used equipment

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|-----------|--------------|----------|--------------|------------|--------------|
| DMM | Fluke | 73 | EMC0006 | 2021-07-05 | 2022-07-05 |
| DMM | Fluke | 73 | EMC0007 | 2021-07-05 | 2022-07-05 |

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6 Radio Spectrum Matter Test Results

6.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

| Frequency(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 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 60 % RH Atmospheric Pressure: 1003 mbar

6.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Pre-scan | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |
| Final test | 01 | Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

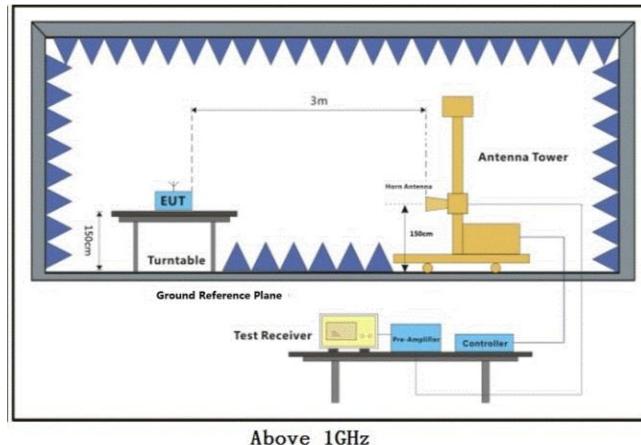
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6.1.3 Test Setup Diagram**6.1.4 Measurement Procedure and Data**

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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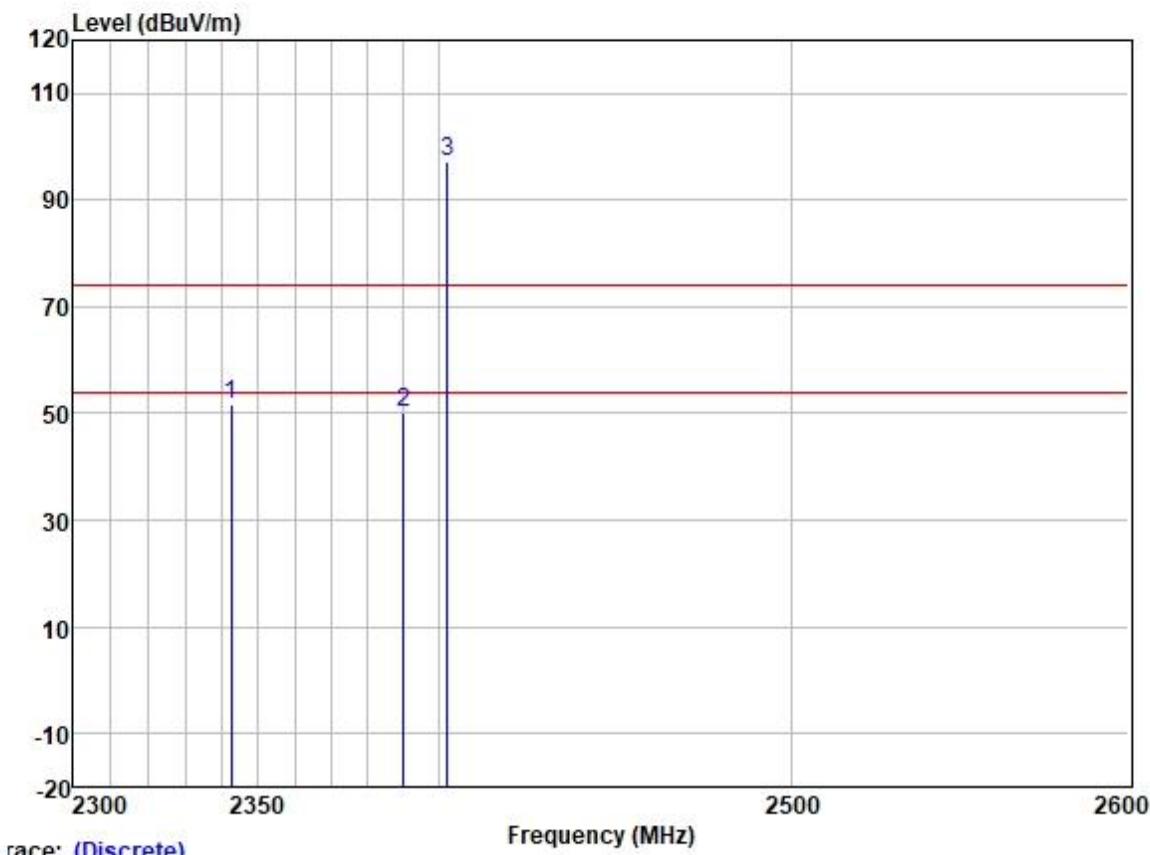
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low

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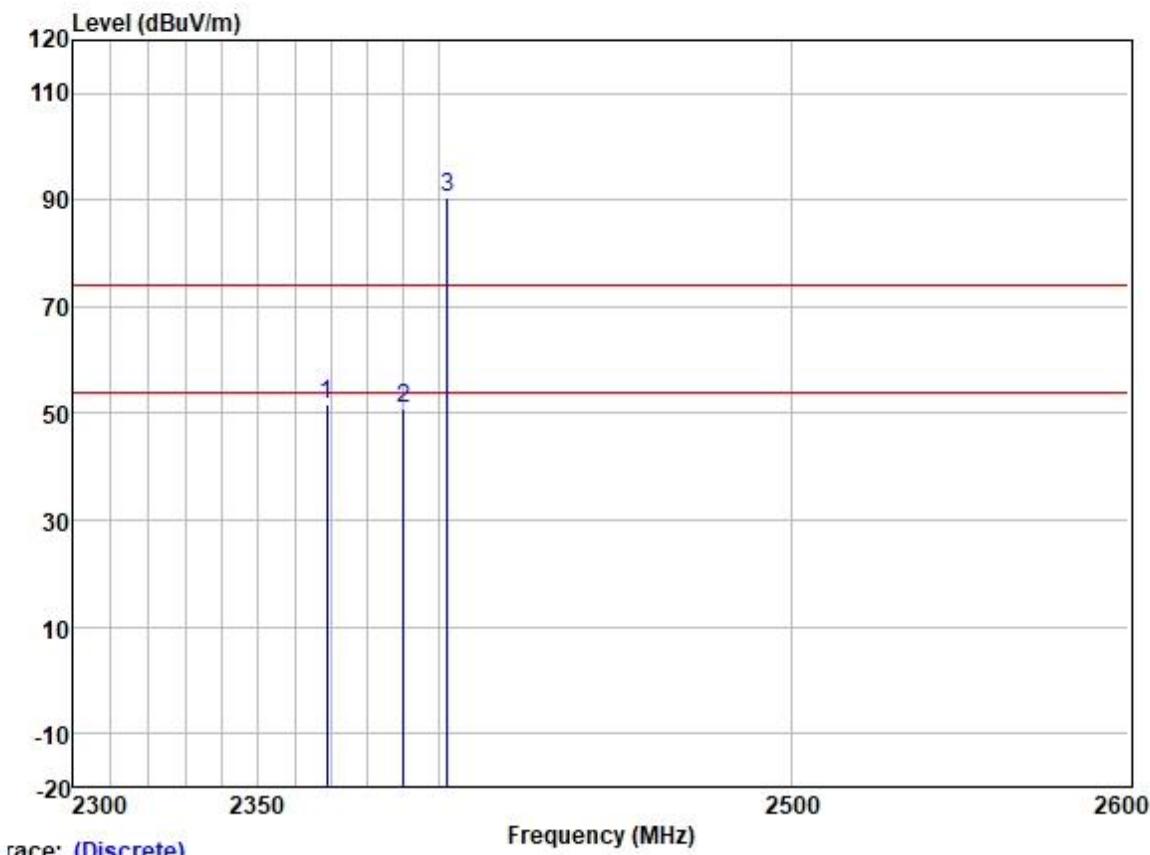
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



| Freq | ReadAntenna | | Cable | | Preamp | | Limit Line | Over Limit | Pol/Phase | Remark |
|--------------|-------------|--------|-------|--------|--------|--------|------------|------------|-----------|--------|
| | Level | Factor | Loss | Factor | Level | dBuV/m | | | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | |
| 1 2368.587 | 58.65 | 27.28 | 3.43 | 37.60 | 51.76 | 74.00 | -22.24 | VERTICAL | Peak | |
| 2 2390.000 | 57.87 | 27.33 | 3.48 | 37.59 | 51.09 | 74.00 | -22.91 | VERTICAL | Peak | |
| 3 * 2402.000 | 97.39 | 27.35 | 3.50 | 37.59 | 90.65 | 74.00 | 16.65 | VERTICAL | Peak | |

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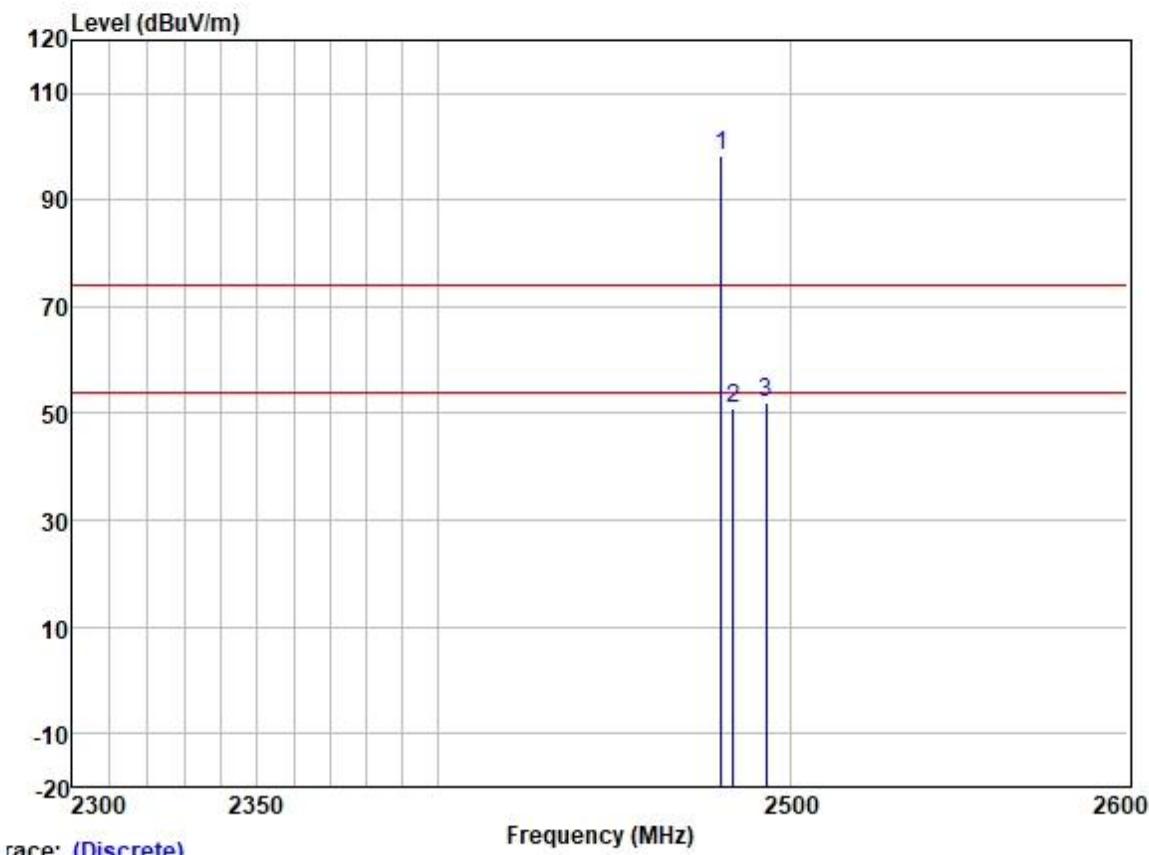


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:High

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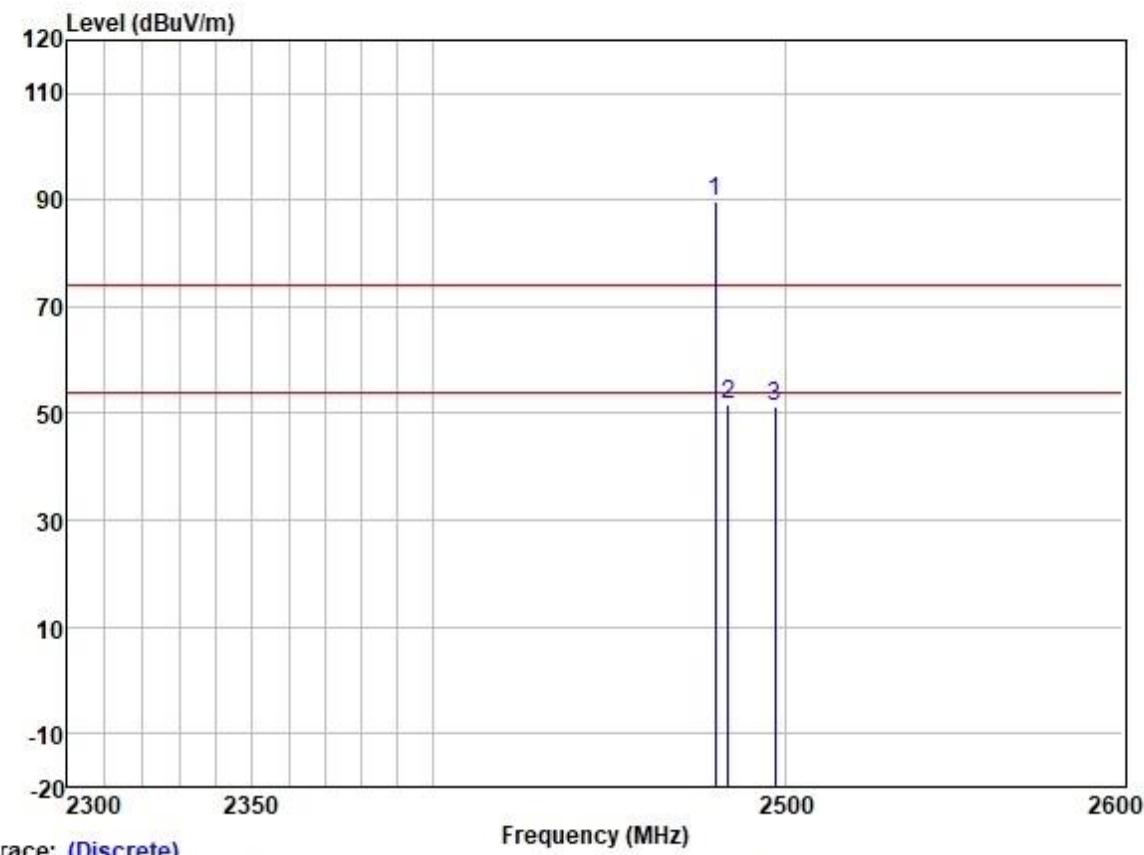
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High



| Freq | ReadAntenna | Cable | Preamp | Limit | Over | Line | Limit | Pol/Phase | Remark |
|--------------|-------------|--------|--------|-------|--------|--------|--------|-----------|--------|
| | Level | Factor | Loss | | | | | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | dB | dB |
| 1 * 2480.000 | 96.43 | 27.47 | 3.60 | 37.57 | 89.93 | 74.00 | 15.93 | VERTICAL | Peak |
| 2 2483.500 | 58.16 | 27.48 | 3.53 | 37.57 | 51.60 | 74.00 | -22.40 | VERTICAL | Peak |
| 3 2496.962 | 58.10 | 27.50 | 3.40 | 37.56 | 51.44 | 74.00 | -22.56 | VERTICAL | Peak |

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6.2 Radiated Spurious Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Limit:

| Frequency(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 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 60 % RH Atmospheric Pressure: 1003 mbar

6.2.2 Test Mode Description

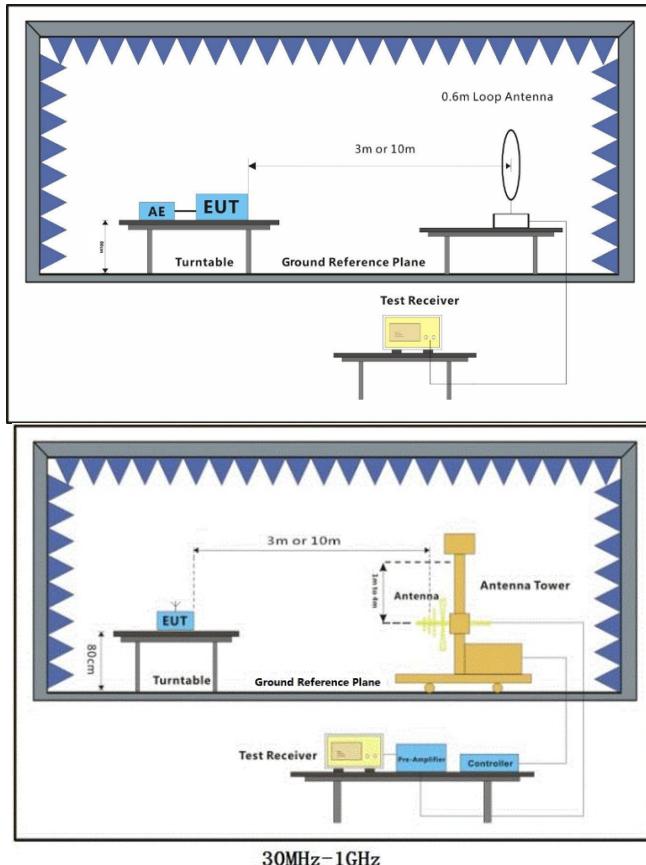
| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Pre-scan | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |
| Final test | 01 | Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

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6.2.3 Test Setup Diagram

30MHz-1GHz

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6.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

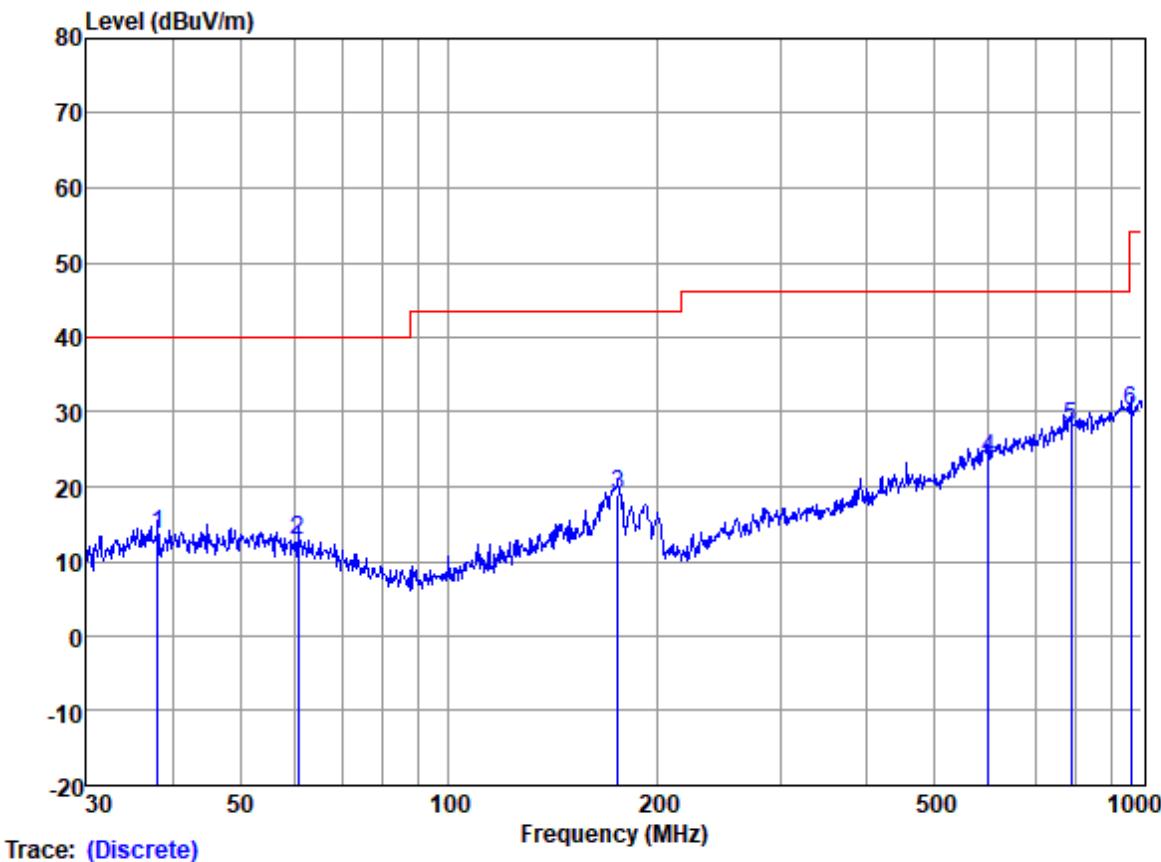
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Test Mode: 01; Polarity: Horizontal



Site : SGS
 Job :
 Model :
 Power :
 Test Mode :

| Freq | Read | Antenna | Cable | Preamp | Measured | Limit | Over | Pol/ | Remark |
|----------|-------|---------|-------|--------|----------|--------|--------|------------|--------|
| | Level | Factor | Loss | Factor | Level | Line | Limit | Phase | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dBuV | | |
| 1 37.94 | 26.36 | 13.30 | 1.09 | 27.18 | 13.57 | 40.00 | -26.43 | HORIZONTAL | QP |
| 2 60.49 | 25.44 | 13.33 | 1.27 | 27.16 | 12.88 | 40.00 | -27.12 | HORIZONTAL | QP |
| 3 175.04 | 30.79 | 12.60 | 2.42 | 26.76 | 19.05 | 43.50 | -24.45 | HORIZONTAL | QP |
| 4 599.32 | 26.98 | 19.90 | 5.14 | 28.21 | 23.81 | 46.00 | -22.19 | HORIZONTAL | QP |
| 5 790.62 | 27.37 | 22.50 | 6.14 | 28.04 | 27.97 | 46.00 | -18.03 | HORIZONTAL | QP |
| 6 962.16 | 26.82 | 23.90 | 7.25 | 27.72 | 30.25 | 54.00 | -23.75 | HORIZONTAL | QP |

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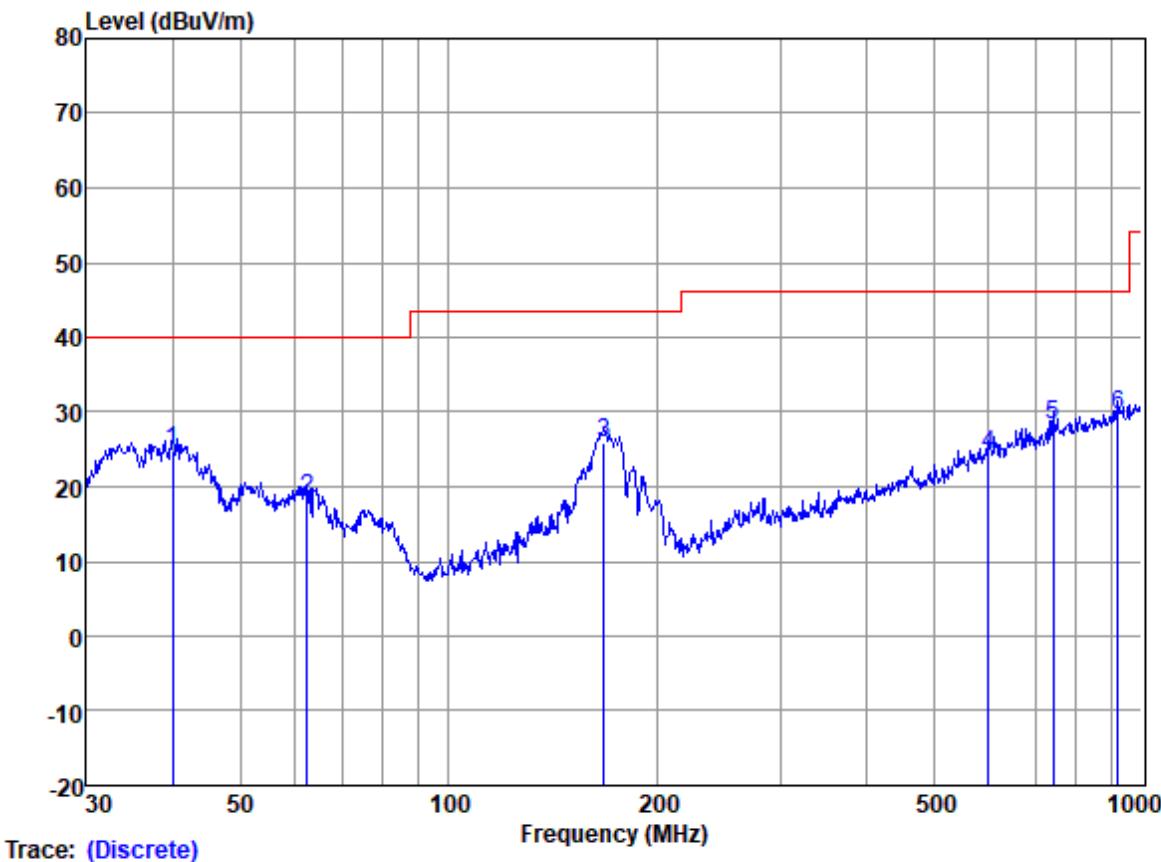
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Test Mode: 01; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode :

| Freq | Read | Antenna | Cable | Preamp | Measured | Limit | Over | Pol/ | Remark |
|----------|-------|---------|-------|--------|----------|--------|--------|----------|--------|
| | Level | Factor | Loss | Factor | Level | Line | Limit | Phase | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dBuV | | |
| 1 39.99 | 37.33 | 13.50 | 1.10 | 27.18 | 24.75 | 40.00 | -15.25 | VERTICAL | QP |
| 2 62.43 | 31.29 | 13.06 | 1.30 | 27.15 | 18.50 | 40.00 | -21.50 | VERTICAL | QP |
| 3 167.24 | 36.86 | 13.33 | 2.38 | 26.78 | 25.79 | 43.50 | -17.71 | VERTICAL | QP |
| 4 599.32 | 27.37 | 19.90 | 5.14 | 28.21 | 24.20 | 46.00 | -21.80 | VERTICAL | QP |
| 5 744.87 | 28.21 | 22.10 | 5.97 | 28.10 | 28.18 | 46.00 | -17.82 | VERTICAL | QP |
| 6 922.52 | 26.74 | 23.67 | 7.01 | 27.82 | 29.60 | 46.00 | -16.40 | VERTICAL | QP |

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6.3 Radiated Spurious Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

| Frequency(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 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 60 % RH Atmospheric Pressure: 1003 mbar

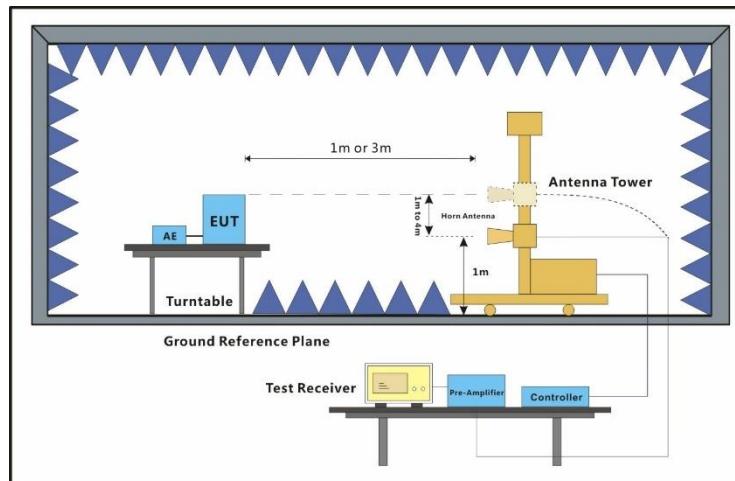
6.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Pre-scan | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |
| Final test | 01 | Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

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6.3.3 Test Setup Diagram

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6.3.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) The field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

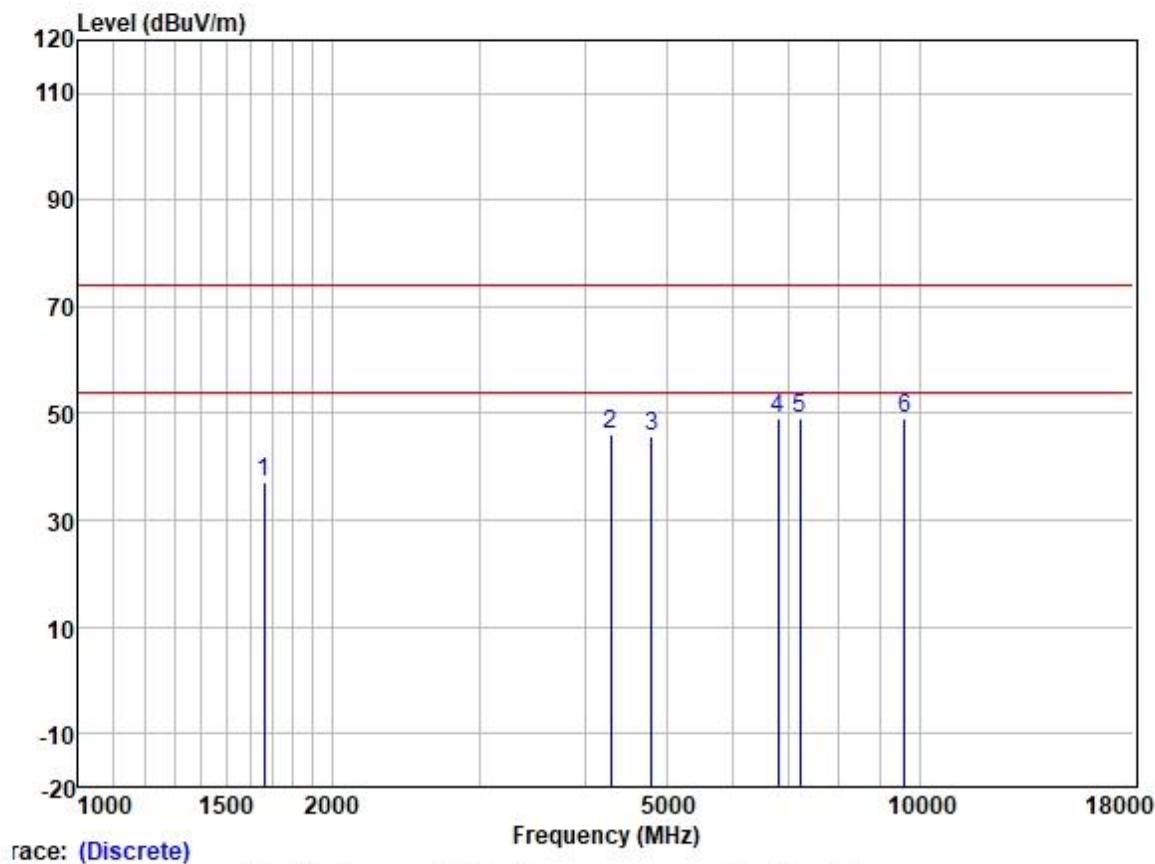
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



Race: (Discrete)

| Freq | ReadAntenna | | Cable | | Preamp | | Limit | Over | Line | Limit | Pol/Phase | Remark |
|------|-------------|-------|--------|------|--------|-------|--------|--------|------------|-------|-----------|--------|
| | MHz | Level | Factor | Loss | Factor | dB | dBuV/m | dBuV/m | dB | | | |
| 1 | 1663.137 | 46.65 | 25.65 | 2.80 | 37.91 | 37.19 | 74.00 | -36.81 | HORIZONTAL | Peak | | |
| 2 | 4291.977 | 47.70 | 30.45 | 4.64 | 36.81 | 45.98 | 74.00 | -28.02 | HORIZONTAL | Peak | | |
| 3 | 4804.000 | 45.65 | 31.42 | 5.40 | 36.83 | 45.64 | 74.00 | -28.36 | HORIZONTAL | Peak | | |
| 4 | 6795.879 | 45.62 | 34.66 | 5.82 | 37.12 | 48.98 | 74.00 | -25.02 | HORIZONTAL | Peak | | |
| 5 | 7206.000 | 44.83 | 35.54 | 5.98 | 37.38 | 48.97 | 74.00 | -25.03 | HORIZONTAL | Peak | | |
| 6 | 9608.000 | 41.02 | 38.37 | 7.07 | 37.42 | 49.04 | 74.00 | -24.96 | HORIZONTAL | Peak | | |

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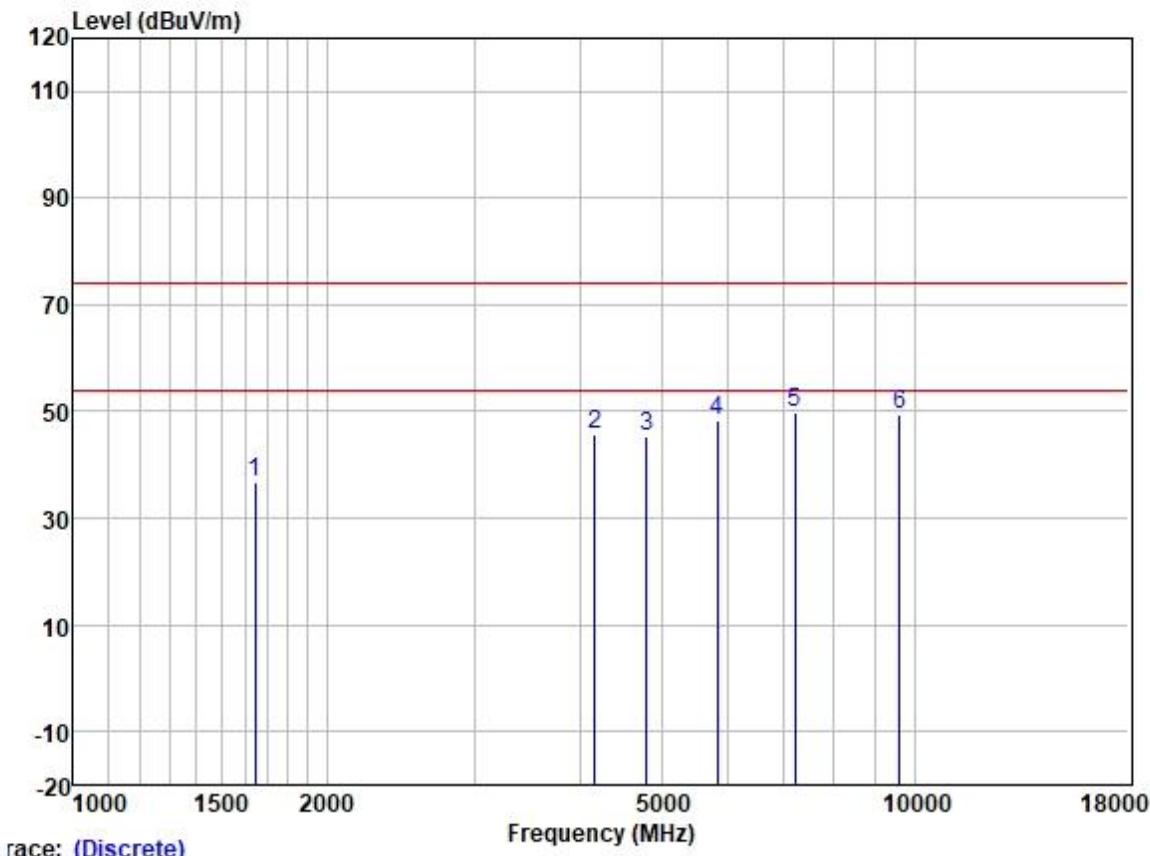
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



| Freq | ReadAntenna | | Cable | | Preamp | | Limit | Over | Pol/Phase | Remark |
|------|-------------|-------|--------|------|--------|--------|--------|--------|-----------|--------|
| | MHz | Level | Factor | Loss | Factor | Level | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1644.019 | 46.11 | 25.63 | 2.80 | 37.93 | 36.61 | 74.00 | -37.39 | VERTICAL | Peak |
| 2 | 4169.698 | 47.97 | 30.09 | 4.60 | 36.80 | 45.86 | 74.00 | -28.14 | VERTICAL | Peak |
| 3 | 4804.000 | 45.41 | 31.42 | 5.40 | 36.83 | 45.40 | 74.00 | -28.60 | VERTICAL | Peak |
| 4 | 5830.640 | 47.00 | 32.23 | 6.04 | 36.90 | 48.37 | 74.00 | -25.63 | VERTICAL | Peak |
| 5 | 7206.000 | 45.77 | 35.54 | 5.98 | 37.38 | 49.91 | 74.00 | -24.09 | VERTICAL | Peak |
| 6 | 9608.000 | 41.49 | 38.37 | 7.07 | 37.42 | 49.51 | 74.00 | -24.49 | VERTICAL | Peak |

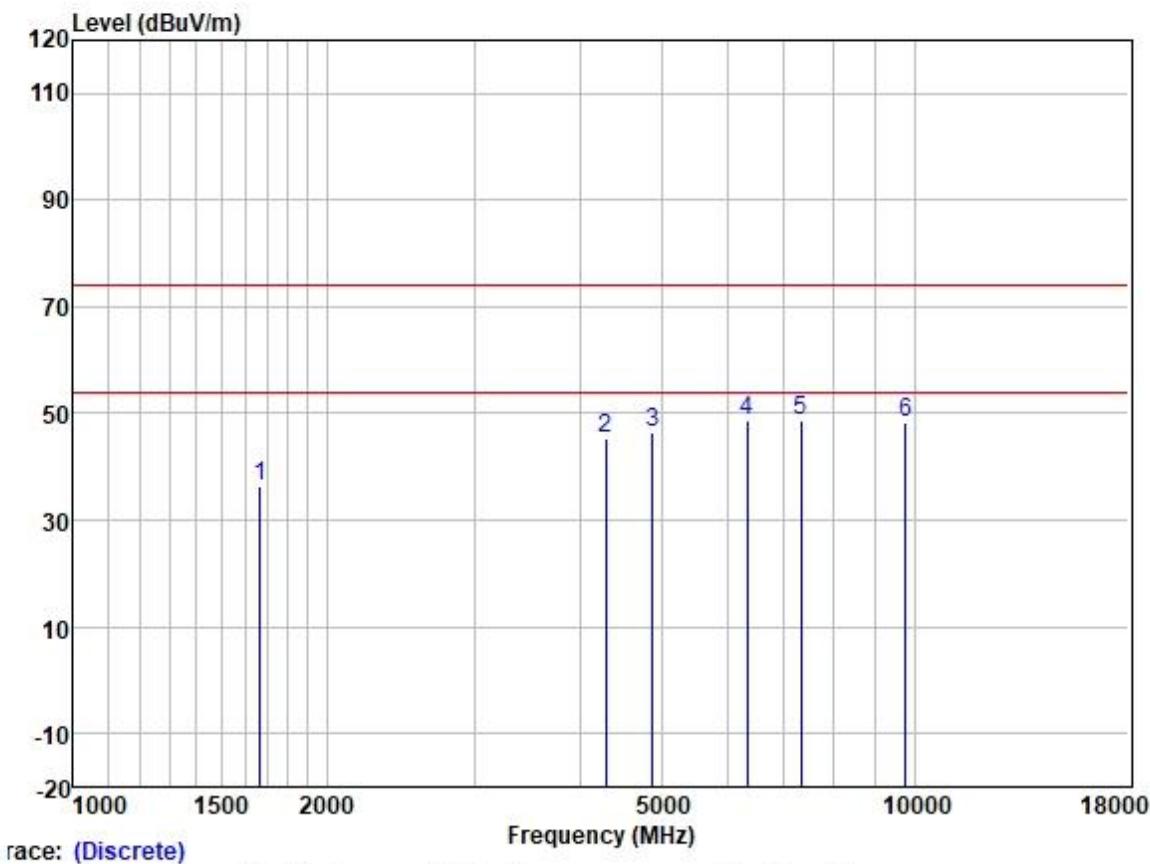
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



Race: (Discrete)

| Freq | ReadAntenna | | Cable | | Preamp | | Limit | Over | Line | Limit | Pol/Phase | Remark |
|------|-------------|-------|--------|------|--------|-------|--------|--------|------------|-------|-----------|--------|
| | MHz | Level | Factor | Loss | Factor | dB | dBuV/m | dBuV/m | dB | | | |
| 1 | 1667.951 | 45.95 | 25.66 | 2.80 | 37.91 | 36.50 | 74.00 | -37.50 | HORIZONTAL | Peak | | |
| 2 | 4291.977 | 47.21 | 30.45 | 4.64 | 36.81 | 45.49 | 74.00 | -28.51 | HORIZONTAL | Peak | | |
| 3 | 4882.000 | 46.06 | 31.56 | 5.52 | 36.84 | 46.30 | 74.00 | -27.70 | HORIZONTAL | Peak | | |
| 4 | 6322.136 | 46.31 | 33.51 | 5.95 | 36.97 | 48.80 | 74.00 | -25.20 | HORIZONTAL | Peak | | |
| 5 | 7323.000 | 44.04 | 36.00 | 6.13 | 37.43 | 48.74 | 74.00 | -25.26 | HORIZONTAL | Peak | | |
| 6 | 9764.000 | 40.29 | 38.50 | 7.02 | 37.41 | 48.40 | 74.00 | -25.60 | HORIZONTAL | Peak | | |

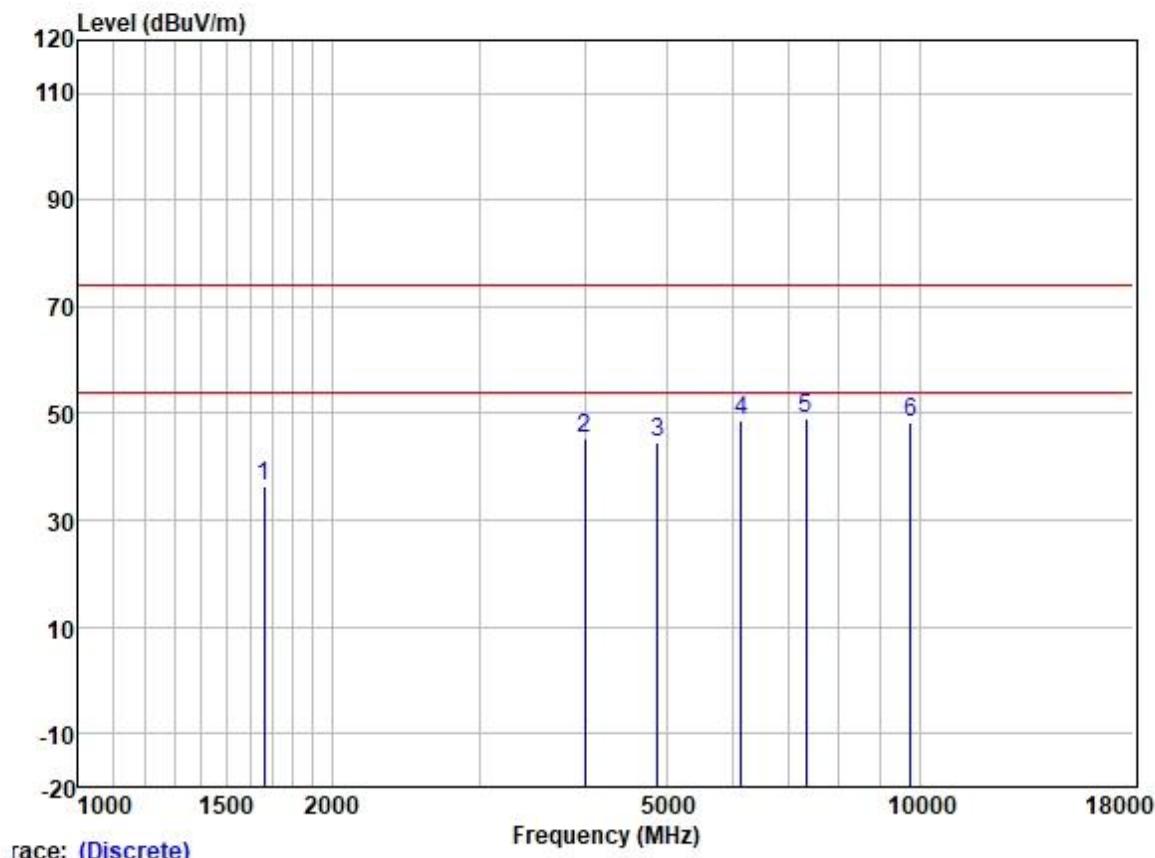
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



Race: (Discrete)

| Freq | ReadAntenna | | Cable | | Preamp | | Limit | Over | Pol/Phase | Remark |
|------|-------------|-------|--------|------|--------|--------|--------|--------|-----------|--------|
| | MHz | Level | Factor | Loss | Factor | Level | | | | |
| | | | | | | dBuV/m | dBuV/m | | | |
| 1 | 1663.137 | 46.00 | 25.65 | 2.80 | 37.91 | 36.54 | 74.00 | -37.46 | VERTICAL | Peak |
| 2 | 4004.339 | 47.62 | 29.80 | 4.60 | 36.80 | 45.22 | 74.00 | -28.78 | VERTICAL | Peak |
| 3 | 4882.000 | 44.42 | 31.56 | 5.52 | 36.84 | 44.66 | 74.00 | -29.34 | VERTICAL | Peak |
| 4 | 6142.019 | 46.84 | 32.77 | 6.12 | 36.93 | 48.80 | 74.00 | -25.20 | VERTICAL | Peak |
| 5 | 7323.000 | 44.34 | 36.00 | 6.13 | 37.43 | 49.04 | 74.00 | -24.96 | VERTICAL | Peak |
| 6 | 9764.000 | 40.29 | 38.50 | 7.02 | 37.41 | 48.40 | 74.00 | -25.60 | VERTICAL | Peak |

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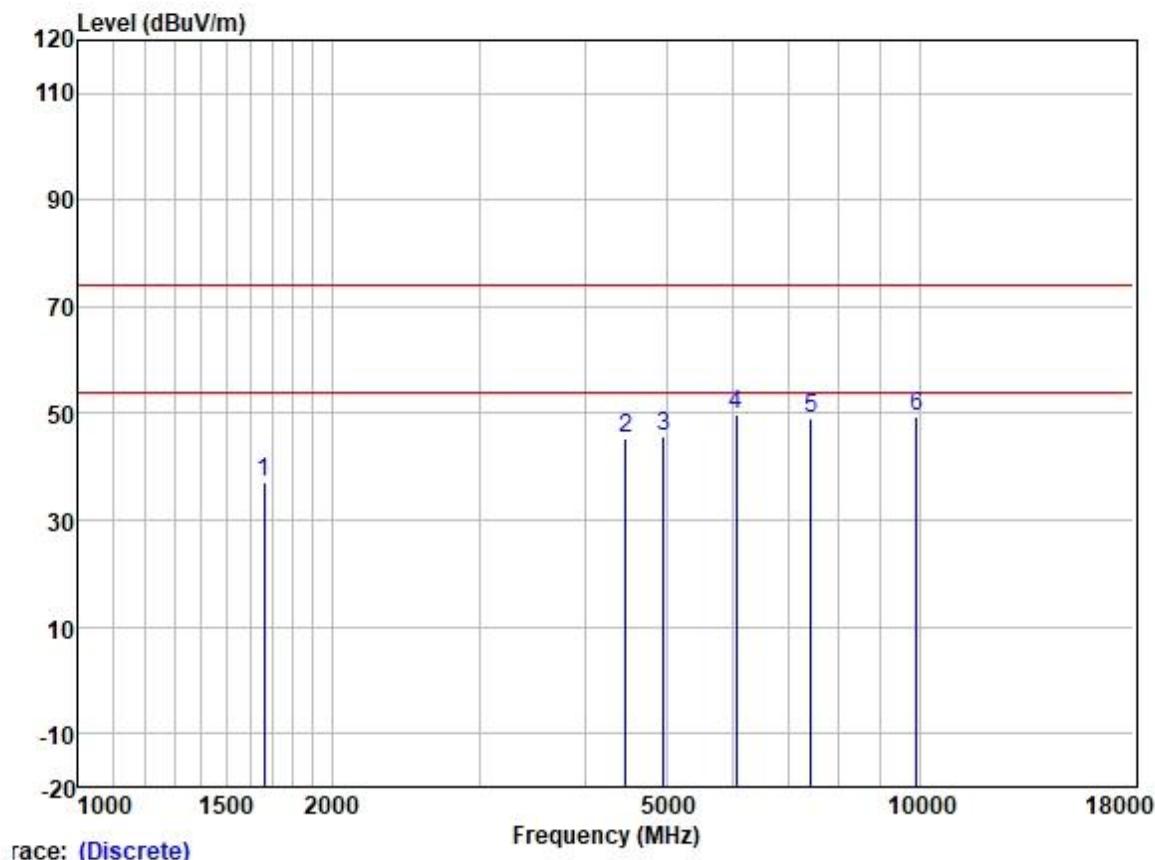
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



| Freq | ReadAntenna | | Cable | | Preamp | | Limit | Over | Pol/Phase | Remark |
|------|-------------|-------|--------|------|--------|--------|--------|--------|------------|--------|
| | MHz | Level | Factor | Loss | Factor | Level | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1663.137 | 46.45 | 25.65 | 2.80 | 37.91 | 36.99 | 74.00 | -37.01 | HORIZONTAL | Peak |
| 2 | 4469.214 | 46.28 | 30.77 | 4.93 | 36.81 | 45.17 | 74.00 | -28.83 | HORIZONTAL | Peak |
| 3 | 4960.000 | 45.36 | 31.65 | 5.65 | 36.84 | 45.82 | 74.00 | -28.18 | HORIZONTAL | Peak |
| 4 | 6053.894 | 47.87 | 32.52 | 6.17 | 36.91 | 49.65 | 74.00 | -24.35 | HORIZONTAL | Peak |
| 5 | 7440.000 | 44.23 | 36.27 | 6.22 | 37.47 | 49.25 | 74.00 | -24.75 | HORIZONTAL | Peak |
| 6 | 9920.000 | 41.21 | 38.65 | 6.96 | 37.40 | 49.42 | 74.00 | -24.58 | HORIZONTAL | Peak |

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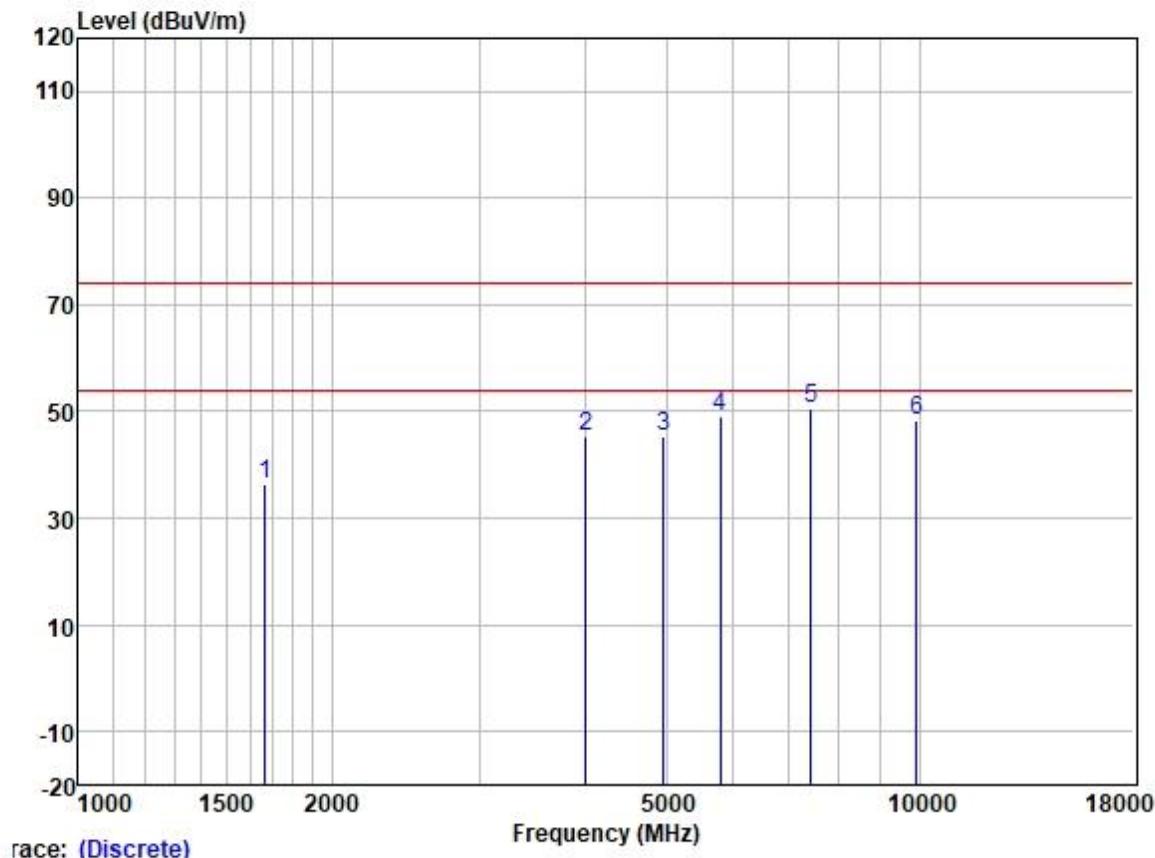
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Race: (Discrete)

| Freq | ReadAntenna | | Cable | | Preamp | | Limit | Over | Line | Limit | Pol/Phase | Remark |
|------------|-------------|-------|--------|-------|--------|-------|--------|----------|------|-------|-----------|--------|
| | MHz | Level | Factor | Loss | Factor | dB | dBuV/m | dBuV/m | dB | | | |
| 1 1667.951 | 45.68 | 25.66 | 2.80 | 37.91 | 36.23 | 74.00 | -37.77 | VERTICAL | | | Peak | |
| 2 4015.929 | 47.62 | 29.82 | 4.60 | 36.80 | 45.24 | 74.00 | -28.76 | VERTICAL | | | Peak | |
| 3 4960.000 | 44.95 | 31.65 | 5.65 | 36.84 | 45.41 | 74.00 | -28.59 | VERTICAL | | | Peak | |
| 4 5797.032 | 47.71 | 32.19 | 6.10 | 36.89 | 49.11 | 74.00 | -24.89 | VERTICAL | | | Peak | |
| 5 7440.000 | 45.36 | 36.27 | 6.22 | 37.47 | 50.38 | 74.00 | -23.62 | VERTICAL | | | Peak | |
| 6 9920.000 | 40.10 | 38.65 | 6.96 | 37.40 | 48.31 | 74.00 | -25.69 | VERTICAL | | | Peak | |

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7 Test Setup Photo

Refer to Appendix - Setup Photos-BTWIFI for GZCR2109021139AT



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8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External Photos & Internal Photos for GZCR2109021139AT

- End of the Report -



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