

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037502

Page: 1 of 47

TEST REPORT

Application No.: FYCR2209000375AT
Applicant: DT Research, Inc.
Address of Applicant: 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan
Manufacturer: DT Research, Inc.
Address of Manufacturer: 2000 Concourse Drive, San Jose, CA 95131, USA
Factory: DT Research, Inc. Taiwan Branch
Address of Factory: 6F., No.36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan
Equipment Under Test (EUT):
EUT Name: Battery Powered Computer
Model No.: 581T, 581XXXXX (X is -, any alphanumeric or blank) ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark:

FCC ID: YE3600-AX210NG
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-09-15
Date of Test: 2022-09-18 to 2022-10-23
Date of Issue: 2022-11-09

| | |
|---------------------|-------|
| Test Result: | Pass* |
|---------------------|-------|

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

Winkey Wang
EMC Technical Manager



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Revision Record

| Version | Chapter | Date | Modifier | Remark |
|---------|---------|------------|----------|----------|
| 01 | | 2022-11-09 | | Original |
| | | | | |
| | | | | |

Authorized for issue by:

| | | |
|--|---|--|
| |  _____ Tree Zhan/Project Engineer | |
| |  _____ Winkey Wang/Reviewer | |

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2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|---|----------------------------------|---------------|---|---------------|
| Item | Standard | Method | Requirement | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass |

| Radio Spectrum Matter Part | | | | |
|---|----------------------------------|------------------------------------|---|---------------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass |
| Radiated Emissions which fall in the restricted bands | | 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 |

Remark:

Model No.: 581T, 581XXXX (X is -, any alphanumeric or blank)

Only the model 581T was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No..

This report is prepared for FCC class II permissive change.

The modular approval by TCB, FCC ID:YE3600-AX210NG, Granted on 05/06/2022.

The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. The Original FCC testing on module under FCC ID: PD9AX210NG was performed with an antenna of higher gain, and the antenna was connected to the module in an open environment. The current host platform under application is used a new antenna of the same type and lower gain than the original certified module. Also, the band above 6GHz(5925-7125MHz) is blocked by the software for the module, and it is installed inside the host platform enclosure.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model 581T and shown the data in this report.

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9 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)47

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4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|--|
| Power supply: | AC Adapter Model: EM11011M-190 Input: AC 100-240V, 2.0~1.0A, 50/60Hz Output: DC 19V, 6.31A, 120W Li-ion Rechargeable Battery Pack Model: ACC-006-591 3INR19/66-3 DC:10.9V 8250mAh/90Wh Rated Capacity: 8250mAh Charge Current: 3.0A Max Nominal Voltage: 10.9V Charge Voltage: 12.3V Max |
| Test Voltage: | AC 120V, 60Hz Note: Both nominal AC 120V, 60Hz and AC 240 V, 60Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V, 60Hz); |
| Cable(s): | DC cable:114cm with a ferrite core |
| Operation Frequency: | 2402MHz to 2480MHz |
| Bluetooth Version: | V5.2 |
| Modulation Type: | GFSK |
| Number of Channels: | 40 |
| Channel Spacing: | 2MHz |
| Data rate: | 1Mbps, 2Mbps |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 2.8dBi |

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

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

The EUT has been tested as an independent unit.



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4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|--------------------------|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | ± 2.1 dB (9kHz to 30MHz) |
| Radiated Emissions which fall in the restricted bands | ± 4.4dB (Above 1GHz) |
| Radiated Spurious Emissions Below 1GHz | ± 3.1dB (Below 1GHz) |
| Radiated Spurious Emissions Above 1GHz | ± 4.4dB (Above 1GHz) |

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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) | | | | | |
|---|-----------------|-----------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Shielding Room | CRT | N/A | SEM001-14 | 2021/7/13 | 2024/7/12 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-01 | 2022/7/12 | 2023/7/11 |
| LISN | Rohde & Schwarz | ENV216 | SEM007-16 | 2022/7/12 | 2023/7/11 |
| Two-Line V-Network | Rohde & Schwarz | ESH3-Z5 | SEM007-22 | 2022/1/10 | 2023/1/9 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM033-02 | 2022/5/16 | 2023/5/15 |

| Radiated Emissions which fall in the restricted bands | | | | | |
|---|------------------------------------|-----------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2021/7/11 | 2024/7/10 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021/9/26 | 2024/9/25 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-23 | 2022/4/24 | 2023/4/23 |
| Pre-amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2022/7/12 | 2023/7/11 |
| Pre-amplifier | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2022/7/12 | 2023/7/11 |
| Coaxial Cable | CCS | N/A | SEM035-02 | 2022/5/16 | 2023/5/15 |
| Coaxial Cable | CCS | N/A | SEM035-03 | 2022/5/16 | 2023/5/15 |
| Pre-amplifier | TST PASS | LNA04080G30 | SEM005-27 | 2022/4/15 | 2023/4/14 |
| Pre-amplifier | TST PASS | LNA10180G45 | SEM005-28 | 2022/4/15 | 2023/4/14 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

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Radiated Spurious Emissions Below 1GHz

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|--------------------------|--------------|-----------------|---------------|------------|--------------|
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-33 | 2021/9/25 | 2024/9/24 |
| MXE EMI receiver | Agilent | N9038A | SEM004-05 | 2022/7/12 | 2023/7/11 |
| Pre-amplifier | HP | 8447D | SEM005-02 | 2022/7/12 | 2023/7/11 |
| Coaxial Cable | CCS | N/A | SEM035-01 | 2022/5/16 | 2023/5/15 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Loop Antenna(9kHz-30MHz) | ETS-LINDGREN | 6502 | SEM003-08 | 2021/11/30 | 2023/11/29 |

Radiated Spurious Emissions Above 1GHz

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|-------------------------|--------------|-----------------|---------------|-----------|--------------|
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021/9/26 | 2024/9/25 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-23 | 2022/4/24 | 2023/4/23 |
| Coaxial Cable | CCS | N/A | SEM035-03 | 2022/5/16 | 2023/5/15 |
| Pre-amplifier | TST PASS | LNA04080G30 | SEM005-27 | 2022/4/15 | 2023/4/14 |
| Pre-amplifier | TST PASS | LNA10180G45 | SEM005-28 | 2022/4/15 | 2023/4/14 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

General used equipment

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|---------------------------------|--------------|-----------|---------------|------------|--------------|
| Humidity/ Temperature Indicator | Mingle | TH607 | SEM002-22 | 2022-07-12 | 2023-07-11 |
| Humidity/ Temperature Indicator | Mingle | TH607 | SEM002-23 | 2022-07-12 | 2023-07-11 |
| Barometer | DUMAI | DYM3 | SEM002-24 | 2022-07-12 | 2023-07-11 |

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

15.203 Requirement:

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna connector is a IPEX type that comply with Part15.203, the best case gain of the antenna is 2.8dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency of emission(MHz) | Conducted limit(dB μ V) | |
|----------------------------|-----------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.1.1 E.U.T. Operation

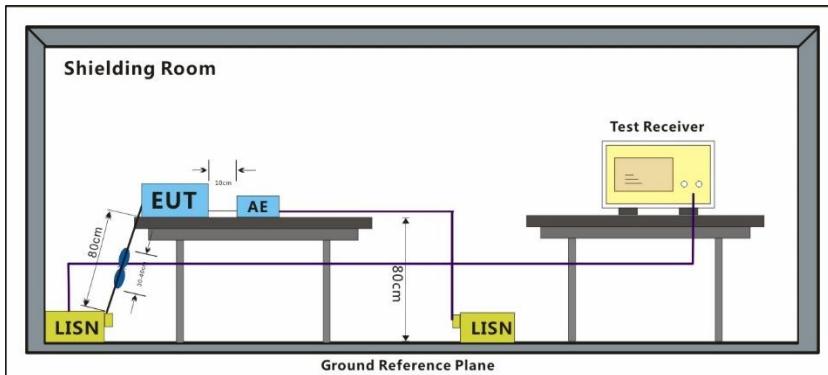
Operating Environment:

Temperature: 23.1 °C Humidity: 52.4 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation(1Mbps). |
| Final test | 05 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation(2Mbps). |

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) 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 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor

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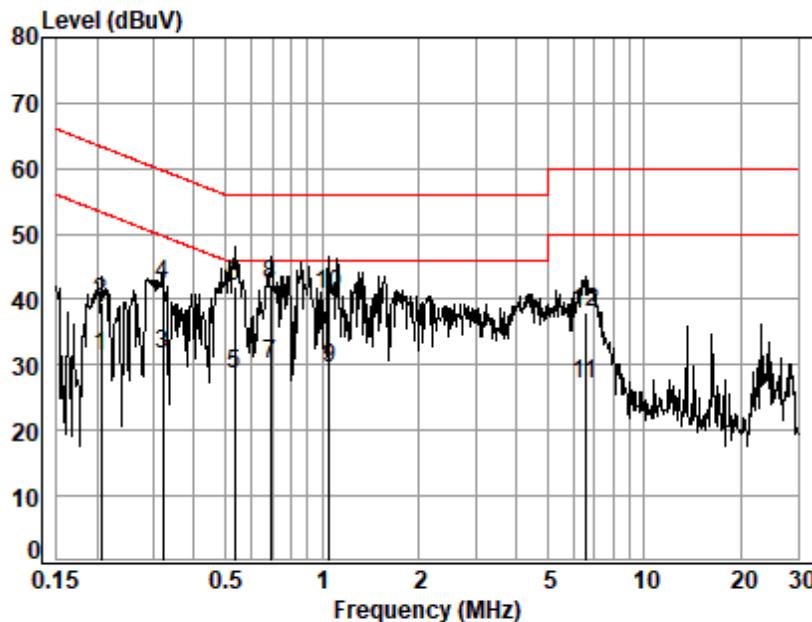
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Test Mode: 03; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00375AT

Test mode: 03

| Freq | Cable Loss | LISN Factor | Read | Limit | | Over Limit | Remark |
|------|------------|-------------|-------|-------|-------|------------|----------------|
| | | | Level | Level | Line | | |
| MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.2061 | 0.02 | 0.26 | 31.10 | 31.38 | 53.36 | -21.98 Average |
| 2 | 0.2061 | 0.02 | 0.26 | 39.40 | 39.68 | 63.36 | -23.68 QP |
| 3 | 0.3200 | 0.03 | 0.27 | 31.30 | 31.60 | 49.71 | -18.11 Average |
| 4 | 0.3200 | 0.03 | 0.27 | 41.90 | 42.20 | 59.71 | -17.51 QP |
| 5 | 0.5350 | 0.02 | 0.26 | 28.40 | 28.68 | 46.00 | -17.32 Average |
| 6 | 0.5350 | 0.02 | 0.26 | 41.80 | 42.08 | 56.00 | -13.92 QP |
| 7 | 0.6899 | 0.01 | 0.22 | 29.81 | 30.04 | 46.00 | -15.96 Average |
| 8 | 0.6899 | 0.01 | 0.22 | 42.01 | 42.24 | 56.00 | -13.76 QP |
| 9 | 1.0541 | 0.03 | 0.19 | 29.40 | 29.62 | 46.00 | -16.38 Average |
| 10 | 1.0541 | 0.03 | 0.19 | 40.60 | 40.82 | 56.00 | -15.18 QP |
| 11 | 6.5573 | 0.04 | 0.13 | 26.80 | 26.97 | 50.00 | -23.03 Average |
| 12 | 6.5573 | 0.04 | 0.13 | 37.90 | 38.07 | 60.00 | -21.93 QP |

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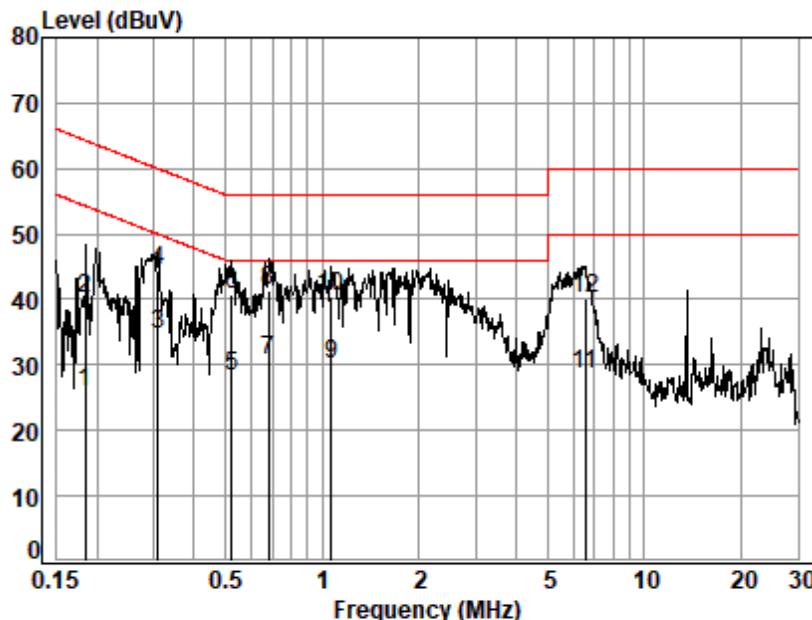
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Test Mode: 03; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00375AT

Test mode: 03

| Freq | Cable Loss | LISN Factor | Read | Limit Line | Over Limit | Remark |
|------|------------|-------------|-------|------------|------------|----------------------|
| | | | Level | | | |
| MHz | dB | dB | dBuV | dBuV | dBuV | dB |
| 1 | 0.1844 | 0.02 | 0.29 | 25.50 | 25.81 | 54.28 -28.47 Average |
| 2 | 0.1844 | 0.02 | 0.29 | 39.80 | 40.11 | 64.28 -24.17 QP |
| 3 | 0.3083 | 0.03 | 0.28 | 34.50 | 34.81 | 50.02 -15.21 Average |
| 4 | 0.3083 | 0.03 | 0.28 | 44.00 | 44.31 | 60.02 -15.71 QP |
| 5 | 0.5238 | 0.02 | 0.25 | 27.91 | 28.18 | 46.00 -17.82 Average |
| 6 | 0.5238 | 0.02 | 0.25 | 40.51 | 40.78 | 56.00 -15.22 QP |
| 7 | 0.6826 | 0.02 | 0.17 | 30.59 | 30.78 | 46.00 -15.22 Average |
| 8 | 0.6826 | 0.02 | 0.17 | 41.29 | 41.48 | 56.00 -14.52 QP |
| 9 | 1.0710 | 0.03 | 0.07 | 29.89 | 29.99 | 46.00 -16.01 Average |
| 10 | 1.0710 | 0.03 | 0.07 | 40.29 | 40.39 | 56.00 -15.61 QP |
| 11 | 6.5573 | 0.04 | 0.15 | 28.50 | 28.69 | 50.00 -21.31 Average |
| 12 | 6.5573 | 0.04 | 0.15 | 40.00 | 40.19 | 60.00 -19.81 QP |

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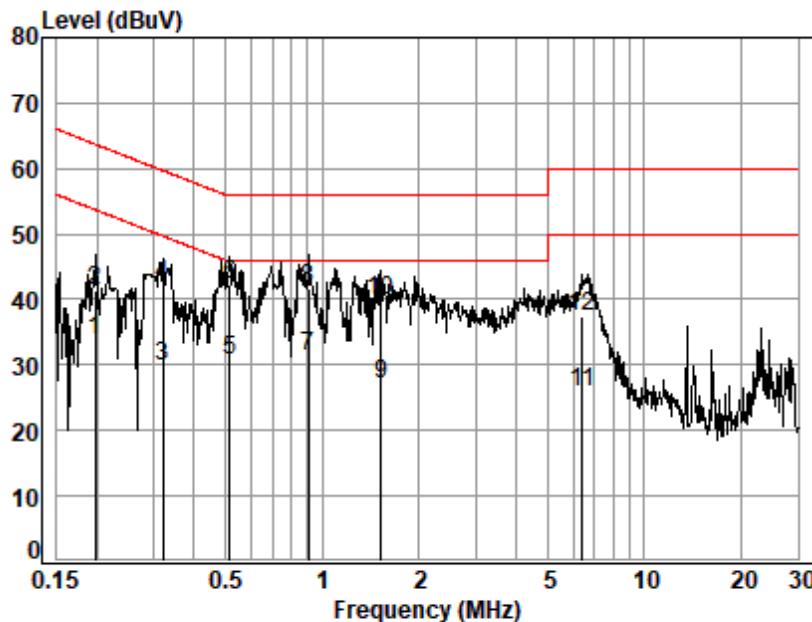
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Test Mode: 05; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00375AT

Test mode: 05

| Freq | Cable Loss | LISN Factor | Read | Limit | | Over Limit | Remark |
|------|------------|-------------|-------|-------|-------|------------|----------------|
| | | | Level | Level | Line | | |
| MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1976 | 0.02 | 0.26 | 33.50 | 33.78 | 53.71 | -19.93 Average |
| 2 | 0.1976 | 0.02 | 0.26 | 41.10 | 41.38 | 63.71 | -22.33 QP |
| 3 | 0.3200 | 0.03 | 0.27 | 29.60 | 29.90 | 49.71 | -19.81 Average |
| 4 | 0.3200 | 0.03 | 0.27 | 41.90 | 42.20 | 59.71 | -17.51 QP |
| 5 | 0.5155 | 0.02 | 0.27 | 30.49 | 30.78 | 46.00 | -15.22 Average |
| 6 | 0.5155 | 0.02 | 0.27 | 42.09 | 42.38 | 56.00 | -13.62 QP |
| 7 | 0.9087 | 0.01 | 0.20 | 31.20 | 31.41 | 46.00 | -14.59 Average |
| 8 | 0.9087 | 0.01 | 0.20 | 41.50 | 41.71 | 56.00 | -14.29 QP |
| 9 | 1.5193 | 0.02 | 0.18 | 26.80 | 27.00 | 46.00 | -19.00 Average |
| 10 | 1.5193 | 0.02 | 0.18 | 39.60 | 39.80 | 56.00 | -16.20 QP |
| 11 | 6.4198 | 0.04 | 0.12 | 25.70 | 25.86 | 50.00 | -24.14 Average |
| 12 | 6.4198 | 0.04 | 0.12 | 37.10 | 37.26 | 60.00 | -22.74 QP |

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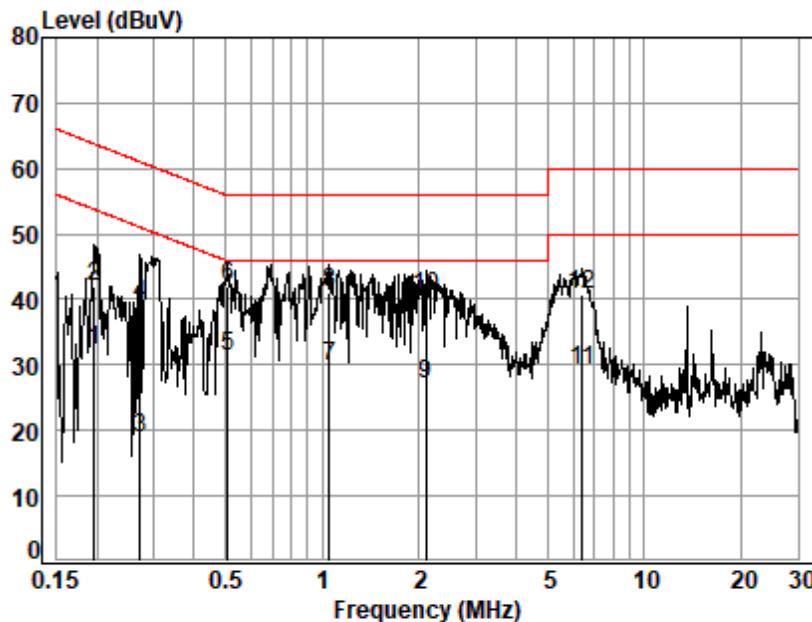
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Test Mode: 05; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00375AT

Test mode: 05

| Freq | Cable | LISN | Read | Limit | | Over | Remark |
|------|--------|------|--------|-------|-------|-------|----------------|
| | Freq | Loss | Factor | Level | Level | Line | |
| | MHz | dB | dB | dBuV | dBuV | dBuV | |
| 1 | 0.1965 | 0.02 | 0.29 | 32.00 | 32.31 | 53.76 | -21.45 Average |
| 2 | 0.1965 | 0.02 | 0.29 | 41.70 | 42.01 | 63.76 | -21.75 QP |
| 3 | 0.2730 | 0.03 | 0.28 | 18.40 | 18.71 | 61.03 | -42.32 Average |
| 4 | 0.2730 | 0.03 | 0.28 | 38.80 | 39.11 | 61.03 | -21.92 QP |
| 5 | 0.5101 | 0.01 | 0.26 | 31.11 | 31.38 | 46.00 | -14.62 Average |
| 6 | 0.5101 | 0.01 | 0.26 | 41.81 | 42.08 | 56.00 | -13.92 QP |
| 7 | 1.0541 | 0.03 | 0.07 | 29.59 | 29.69 | 46.00 | -16.31 Average |
| 8 | 1.0541 | 0.03 | 0.07 | 40.99 | 41.09 | 56.00 | -14.91 QP |
| 9 | 2.0990 | 0.01 | 0.13 | 26.80 | 26.94 | 46.00 | -19.06 Average |
| 10 | 2.0990 | 0.01 | 0.13 | 40.40 | 40.54 | 56.00 | -15.46 QP |
| 11 | 6.4198 | 0.04 | 0.15 | 29.00 | 29.19 | 50.00 | -20.81 Average |
| 12 | 6.4198 | 0.04 | 0.15 | 40.70 | 40.89 | 60.00 | -19.11 QP |

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7.2 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

Measurement Distance: 3m

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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 51.3 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Pre-scan | 02 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation(1Mbps). |
| Final test | 03 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation(1Mbps). |
| Pre-scan | 04 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation(2Mbps). |
| Final test | 05 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation(2Mbps). |

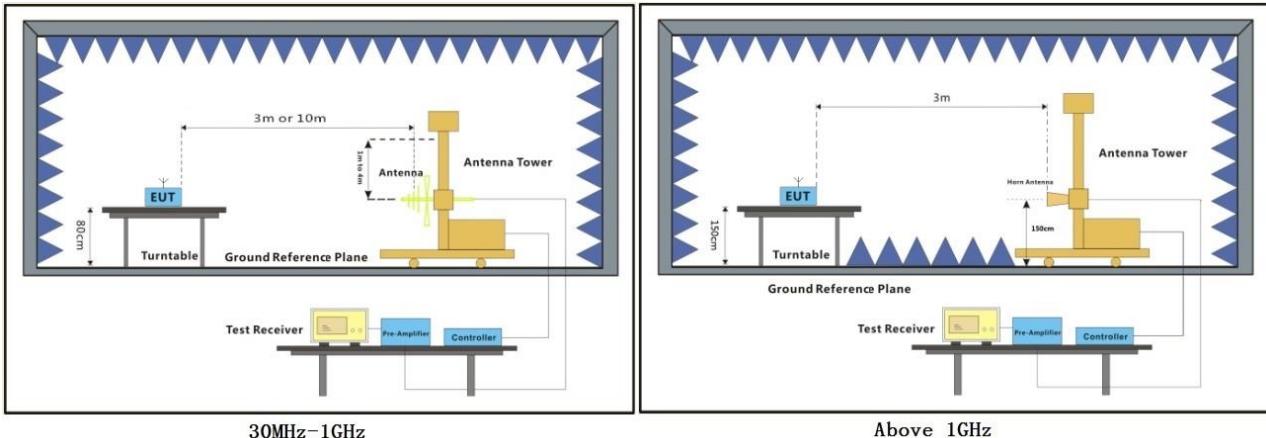
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7.2.3 Test Setup Diagram



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7.2.4 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. 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 middle 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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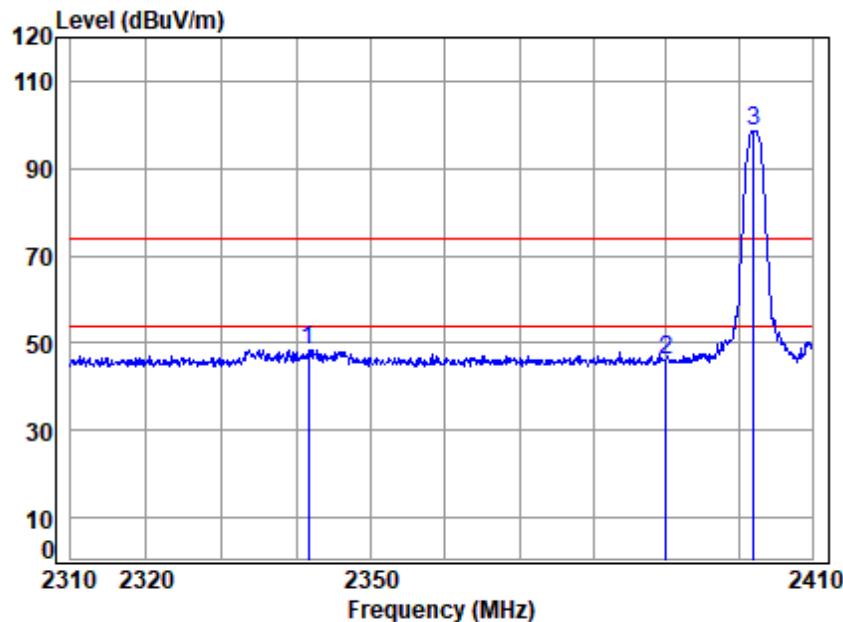
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00375AT/00376AT
Mode : 2402 Band edge
Note : BLE 1M

| | Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|---|-----------|-------|--------|--------|-------|--------|--------|-------------|
| | | Loss | Factor | Factor | Level | Level | Line | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2341.6390 | 5.02 | 27.05 | 32.50 | 49.01 | 48.58 | 74.00 | -25.42 peak |
| 2 | 2390.0000 | 5.05 | 27.16 | 32.50 | 46.59 | 46.30 | 74.00 | -27.70 peak |
| 3 | 2402.0000 | 5.06 | 27.18 | 32.50 | 98.76 | 98.50 | 74.00 | 24.50 peak |

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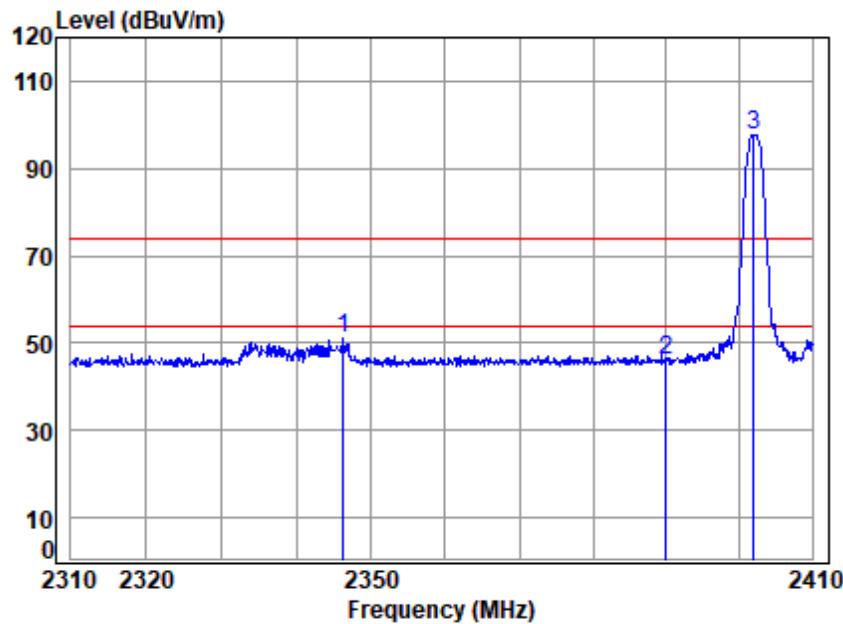
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00375AT/00376AT

Mode : 2402 Band edge

Note : BLE 1M

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|-------------|------------|------------|---------------|------------|-------------|------------|------------|--------|--|
| | | | | | | | | dB | |
| 1 2346.2090 | 5.02 | 27.06 | 32.50 | 51.41 | 50.99 | 74.00 | -23.01 | peak | |
| 2 2390.0000 | 5.05 | 27.16 | 32.50 | 46.57 | 46.28 | 74.00 | -27.72 | peak | |
| 3 2402.0000 | 5.06 | 27.18 | 32.50 | 97.79 | 97.53 | 74.00 | 23.53 | peak | |

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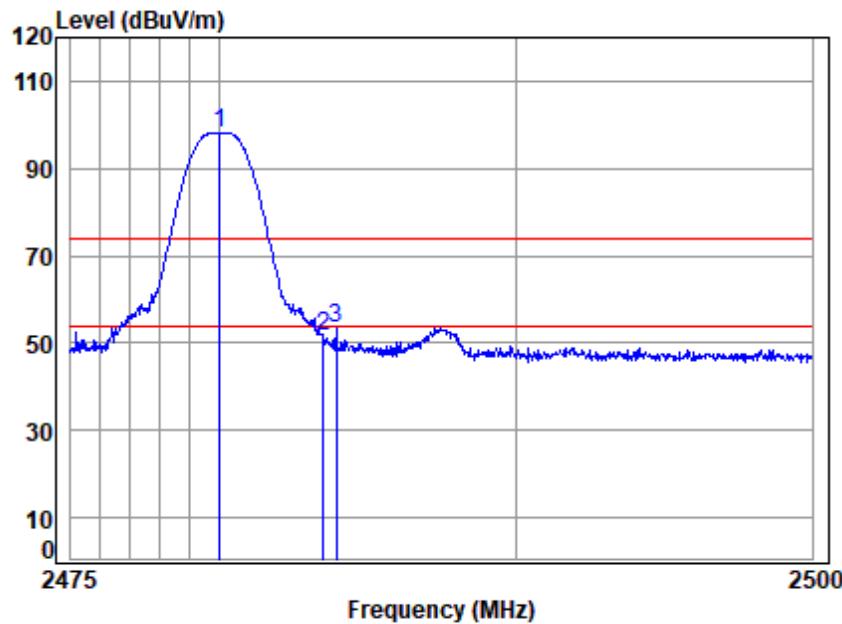
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00375AT/00376AT
Mode : 2480 Band edge
Note : BLE 1M

| | Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|---|-----------|-------|--------|--------|-------|--------|--------|-------------|
| | | Loss | Factor | Factor | Level | Level | Line | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2480.0000 | 5.12 | 27.36 | 32.50 | 98.27 | 98.25 | 74.00 | 24.25 peak |
| 2 | 2483.5000 | 5.12 | 27.36 | 32.50 | 51.41 | 51.39 | 74.00 | -22.61 peak |
| 3 | 2483.9210 | 5.12 | 27.37 | 32.50 | 53.33 | 53.32 | 74.00 | -20.68 peak |



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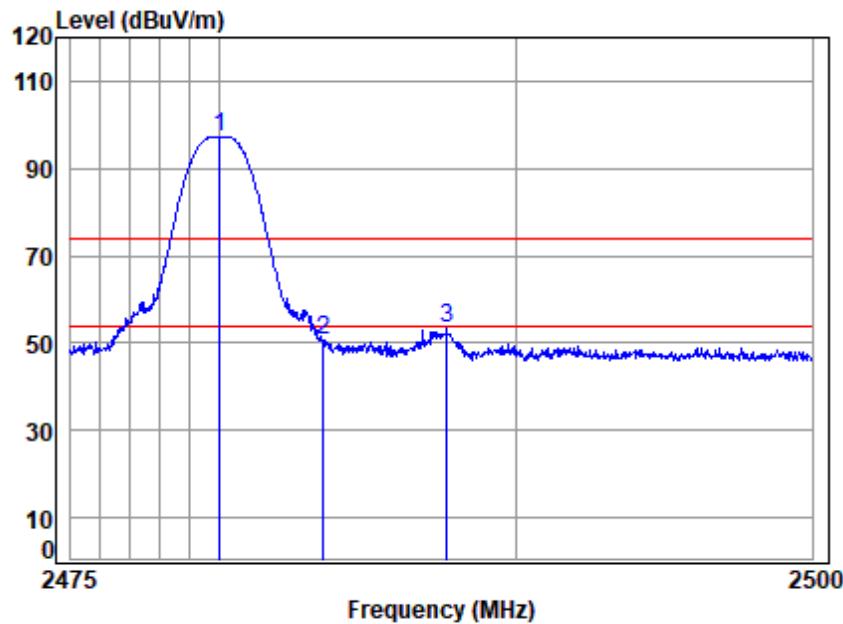
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00375AT/00376AT
Mode : 2480 Band edge
Note : BLE 1M

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
| | | | | | | | | dB | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | | |
| 1 | 2480.0000 | 5.12 | 27.36 | 32.50 | 97.29 | 97.27 | 74.00 | 23.27 | peak |
| 2 | 2483.5000 | 5.12 | 27.36 | 32.50 | 50.56 | 50.54 | 74.00 | -23.46 | peak |
| 3 | 2487.6440 | 5.12 | 27.37 | 32.50 | 53.34 | 53.33 | 74.00 | -20.67 | peak |



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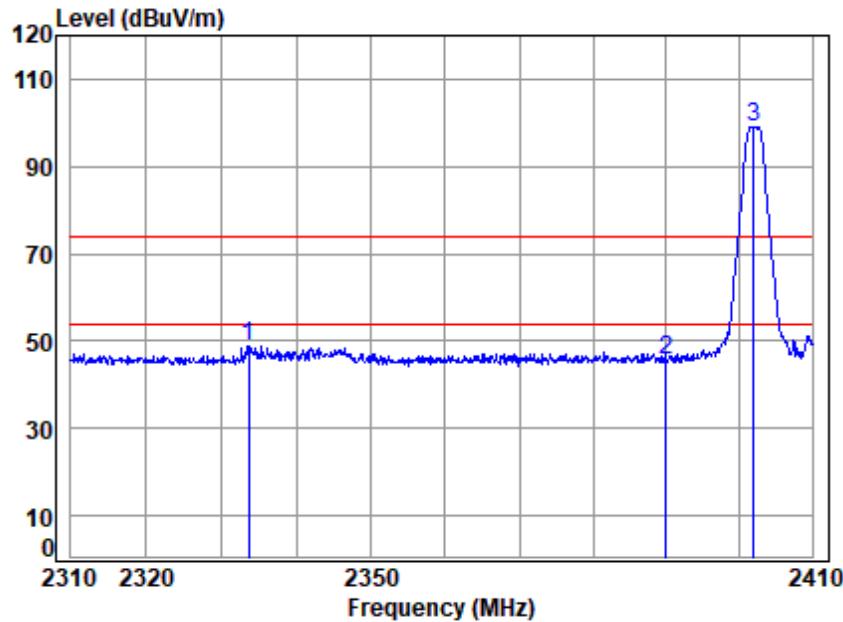
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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00375AT/00376AT
Mode : 2402 Band edge
Note : BLE 2M

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read | Limit Line | Over Limit | Remark |
|-------------|------------|------------|---------------|-------|------------|------------|-------------|
| | | | | Level | dBuV | dBuV/m | dB |
| 1 2333.6150 | 5.01 | 27.03 | 32.50 | 49.21 | 48.75 | 74.00 | -25.25 peak |
| 2 2390.0000 | 5.05 | 27.16 | 32.50 | 45.85 | 45.56 | 74.00 | -28.44 peak |
| 3 2402.0000 | 5.06 | 27.18 | 32.50 | 99.32 | 99.06 | 74.00 | 25.06 peak |

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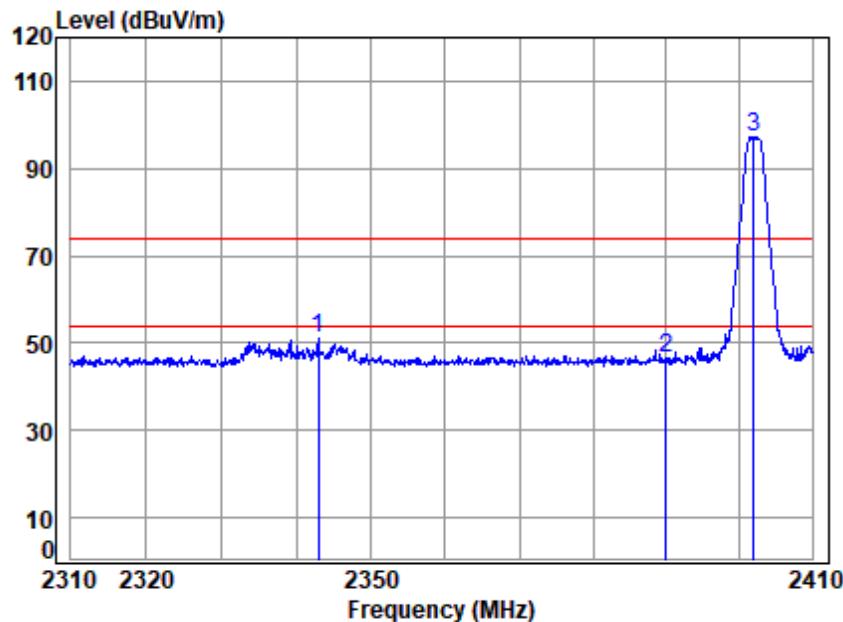
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00375AT/00376AT
Mode : 2402 Band edge
Note : BLE 2M

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|-------------|------------|------------|---------------|------------|-------------|------------|------------|--------|--|
| | | | | | | | | dB | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| 1 2342.9300 | 5.02 | 27.05 | 32.50 | 51.31 | 50.88 | 74.00 | -23.12 | peak | |
| 2 2390.0000 | 5.05 | 27.16 | 32.50 | 46.72 | 46.43 | 74.00 | -27.57 | peak | |
| 3 2402.0000 | 5.06 | 27.18 | 32.50 | 97.46 | 97.20 | 74.00 | 23.20 | peak | |

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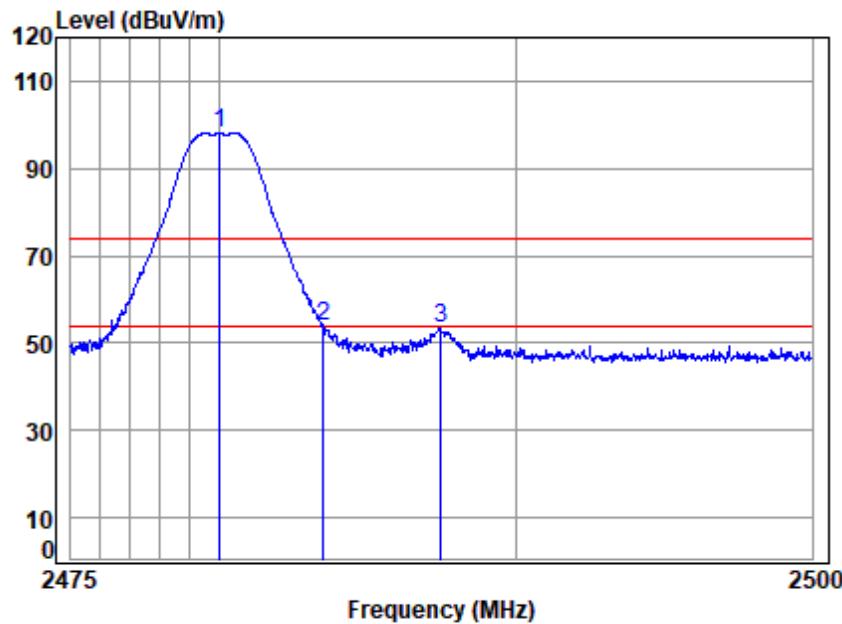
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00375AT/00376AT
Mode : 2480 Band edge
Note : BLE 2M

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark | |
|-------------|------------|------------|---------------|------------|-------------|------------|------------|--------|--|
| | | | | | | | | dB | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| 1 2480.0000 | 5.12 | 27.36 | 32.50 | 98.16 | 98.14 | 74.00 | 24.14 | peak | |
| 2 2483.5000 | 5.12 | 27.36 | 32.50 | 53.81 | 53.79 | 74.00 | -20.21 | peak | |
| 3 2487.4440 | 5.12 | 27.37 | 32.50 | 53.34 | 53.33 | 74.00 | -20.67 | peak | |

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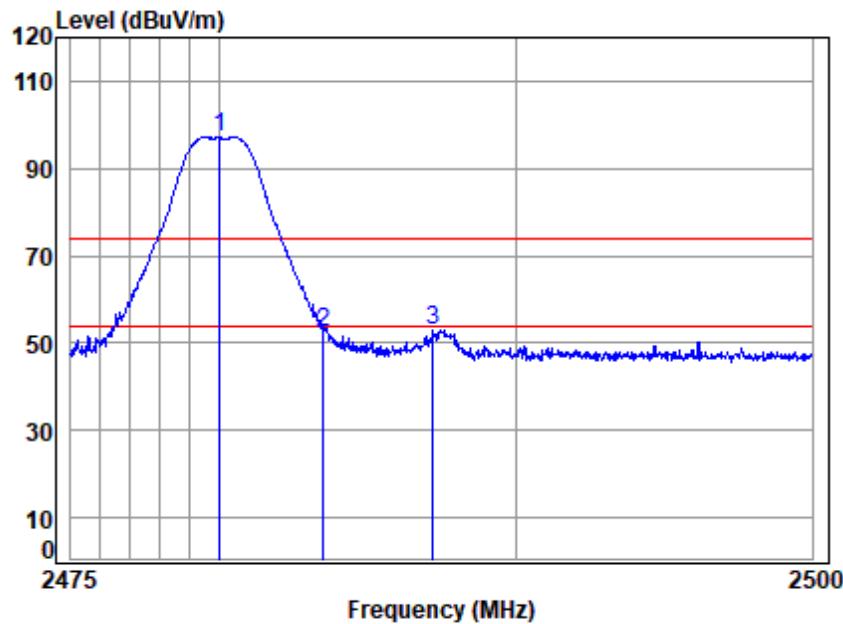
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00375AT/00376AT
Mode : 2480 Band edge
Note : BLE 2M

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read | Limit Line | Over Limit | Remark |
|-------------|------------|------------|---------------|-------|------------|------------|-------------|
| | | | | Level | | | |
| MHz | dB | dB/m | | dBuV | dBuV/m | dBuV/m | dB |
| 1 2480.0000 | 5.12 | 27.36 | 32.50 | 97.23 | 97.21 | 74.00 | 23.21 peak |
| 2 2483.5000 | 5.12 | 27.36 | 32.50 | 52.37 | 52.35 | 74.00 | -21.65 peak |
| 3 2487.1940 | 5.12 | 27.37 | 32.50 | 53.08 | 53.07 | 74.00 | -20.93 peak |



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7.3 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

Measurement Distance: 3m

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 |
| 960-1000 | 500 | 3 |

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 52.6 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

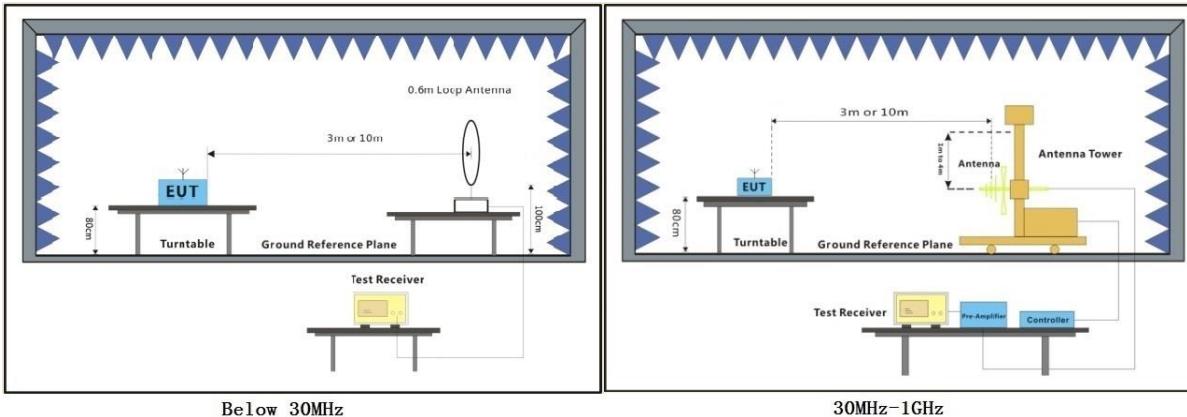
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Pre-scan | 02 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation(1Mbps). |
| Final test | 03 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation(1Mbps). |
| Pre-scan | 04 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation(2Mbps). |
| Pre-scan | 05 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation(2Mbps). |

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7.3.3 Test Setup Diagram**7.3.4 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 quasi-peak 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. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, 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.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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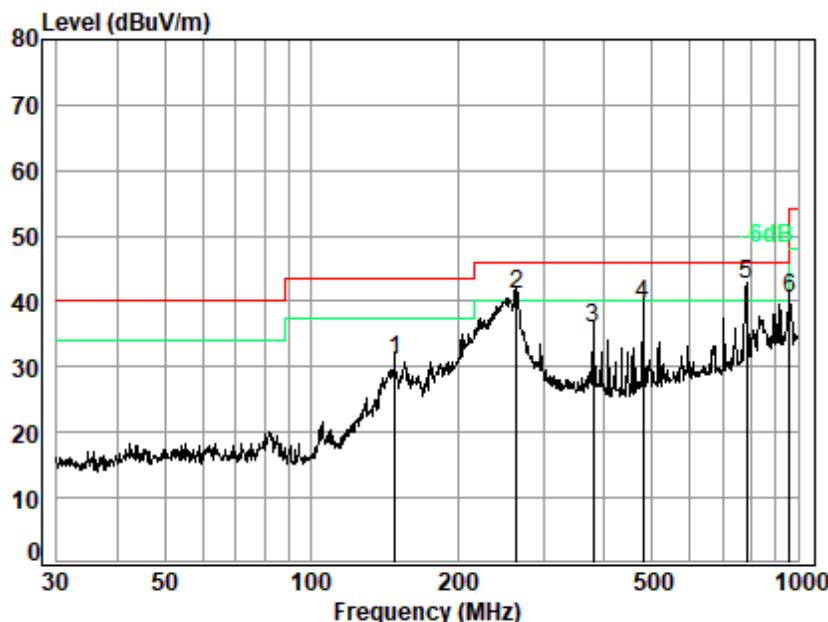
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Test Mode: 03; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00375AT
Mode : 03

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over | |
|------------|------------|------------|---------------|------------|-------------|------------|--------|--------|
| | | | | | | | dB | Remark |
| 1 148.4410 | 0.92 | 17.43 | 25.53 | 38.32 | 31.14 | 43.50 | -12.36 | QP |
| 2 263.8190 | 0.90 | 16.95 | 25.42 | 48.54 | 40.97 | 46.00 | -5.03 | QP |
| 3 379.9142 | 1.62 | 20.26 | 25.45 | 39.58 | 36.01 | 46.00 | -9.99 | QP |
| 4 480.5276 | 1.43 | 22.16 | 25.49 | 41.38 | 39.48 | 46.00 | -6.52 | QP |
| 5 782.3453 | 1.96 | 26.83 | 24.26 | 38.09 | 42.62 | 46.00 | -3.38 | QP |
| 6 958.7943 | 2.31 | 29.34 | 24.04 | 32.94 | 40.55 | 46.00 | -5.45 | QP |

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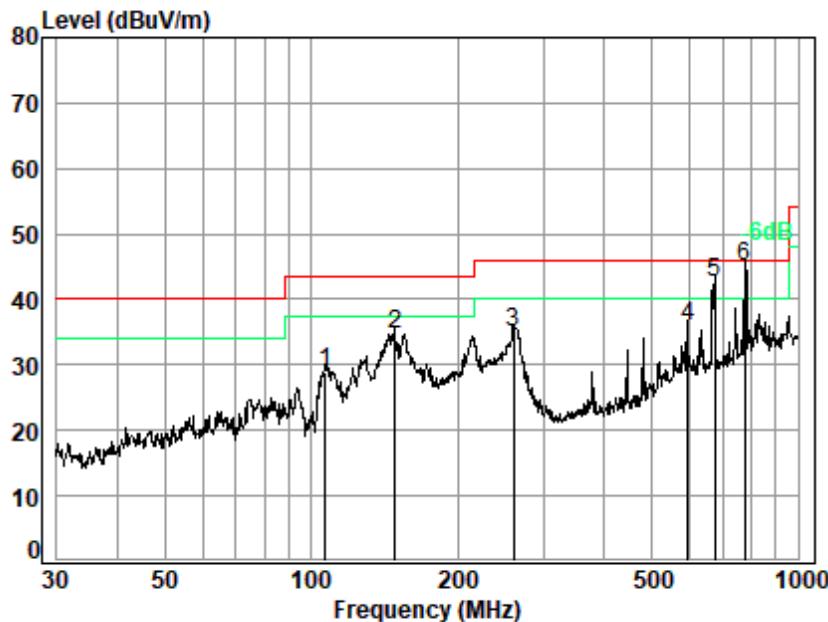
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Test Mode: 03; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00375AT
Mode : 03

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over | |
|------------|------------|------------|---------------|------------|-------------|------------|--------|--------|
| | | | | | | | dB | Remark |
| 1 106.7587 | 0.92 | 15.17 | 25.59 | 38.54 | 29.04 | 43.50 | -14.46 | QP |
| 2 148.4410 | 0.92 | 17.43 | 25.53 | 41.71 | 34.53 | 43.50 | -8.97 | QP |
| 3 260.1444 | 0.88 | 16.77 | 25.43 | 42.67 | 34.89 | 46.00 | -11.11 | QP |
| 4 593.0497 | 2.22 | 24.20 | 25.03 | 34.53 | 35.92 | 46.00 | -10.08 | QP |
| 5 672.8445 | 1.92 | 25.51 | 24.68 | 39.71 | 42.46 | 46.00 | -3.54 | QP |
| 6 776.8778 | 1.95 | 26.75 | 24.28 | 40.57 | 44.99 | 46.00 | -1.01 | QP |

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7.4 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| Above 1000 | 500 | 3 |

7.4.1 E.U.T. Operation

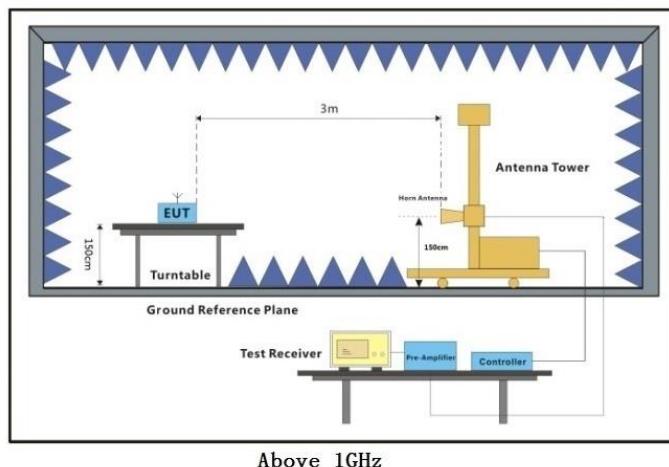
Operating Environment:

Temperature: 21.5 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Pre-scan | 02 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation(1Mbps). |
| Final test | 03 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation(1Mbps). |
| Pre-scan | 04 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation(2Mbps). |
| Final test | 05 | Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation(2Mbps). |

7.4.3 Test Setup Diagram



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7.4.4 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 (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 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. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp 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. As shown in this section, 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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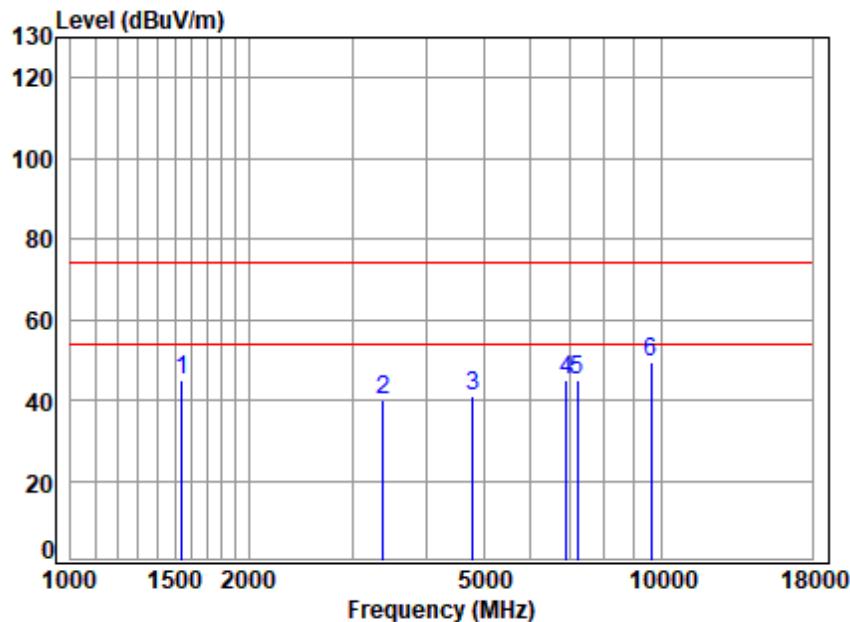
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037502

Page: 35 of 47

Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00375AT/00376AT
Mode : 2402 TX RSE
Note : BLE 1M

| 1 | Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|---|-----------|-------|-------|--------|-------|--------|--------|-------------|
| | | MHz | Loss | Factor | Level | Level | Line | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1542.7330 | 3.87 | 24.64 | 52.88 | 69.24 | 44.87 | 74.00 | -29.13 peak |
| 2 | 3386.2970 | 6.72 | 28.68 | 52.97 | 57.56 | 39.99 | 74.00 | -34.01 peak |
| 3 | 4804.0000 | 7.98 | 30.94 | 53.05 | 55.23 | 41.10 | 74.00 | -32.90 peak |
| 4 | 6914.7630 | 8.11 | 35.60 | 53.44 | 54.76 | 45.03 | 74.00 | -28.97 peak |
| 5 | 7206.0000 | 8.29 | 36.05 | 53.52 | 54.29 | 45.11 | 74.00 | -28.89 peak |
| 6 | 9608.0000 | 11.41 | 37.53 | 53.58 | 54.13 | 49.49 | 74.00 | -24.51 peak |

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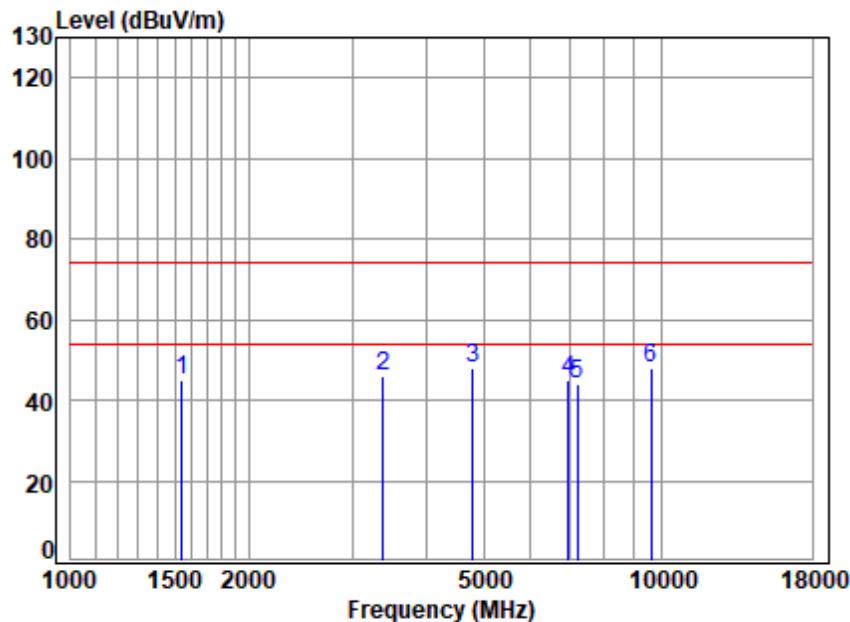
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037502

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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00375AT/00376AT
Mode : 2402 TX RSE
Note : BLE 1M

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read | Limit Level | Line Level | Over Limit | Remark |
|-------------|------------|------------|---------------|-------|-------------|------------|------------|--------|
| | | | | dB | dB/m | dB | dBuV | dBuV/m |
| 1 1542.7330 | 3.87 | 24.64 | 52.88 | 69.14 | 44.77 | 74.00 | -29.23 | peak |
| 2 3386.2970 | 6.72 | 28.68 | 52.97 | 63.38 | 45.81 | 74.00 | -28.19 | peak |
| 3 4804.0000 | 7.98 | 30.94 | 53.05 | 61.86 | 47.73 | 74.00 | -26.27 | peak |
| 4 6954.8520 | 8.15 | 35.70 | 53.47 | 54.63 | 45.01 | 74.00 | -28.99 | peak |
| 5 7206.0000 | 8.29 | 36.05 | 53.52 | 53.31 | 44.13 | 74.00 | -29.87 | peak |
| 6 9608.0000 | 11.41 | 37.53 | 53.58 | 52.46 | 47.82 | 74.00 | -26.18 | peak |

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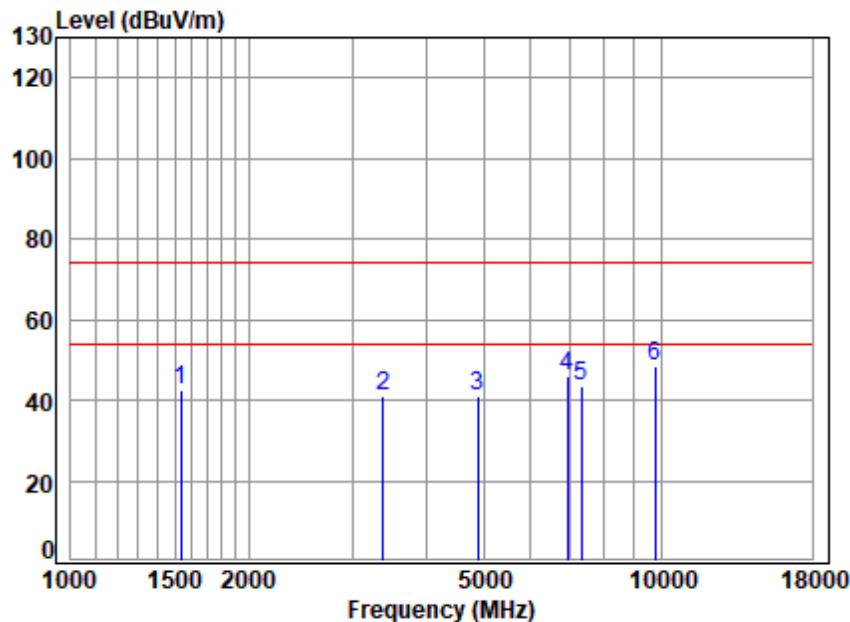
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR220900037502

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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00375AT/00376AT
Mode : 2440 TX RSE
Note : BLE 1M

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark | |
|-------------|------------|------------|---------------|------------|-------------|------------|------------|--------|----|
| | | | | | | | | MHz | dB |
| 1 1533.8410 | 3.85 | 24.61 | 52.87 | 66.75 | 42.34 | 74.00 | -31.66 | peak | |
| 2 3386.2970 | 6.72 | 28.68 | 52.97 | 58.36 | 40.79 | 74.00 | -33.21 | peak | |
| 3 4880.0000 | 8.11 | 31.12 | 53.07 | 54.84 | 41.00 | 74.00 | -33.00 | peak | |
| 4 6934.7780 | 8.13 | 35.65 | 53.46 | 55.79 | 46.11 | 74.00 | -27.89 | peak | |
| 5 7320.0000 | 8.35 | 36.19 | 53.53 | 52.62 | 43.63 | 74.00 | -30.37 | peak | |
| 6 9760.0000 | 11.30 | 37.87 | 53.43 | 52.89 | 48.63 | 74.00 | -25.37 | peak | |

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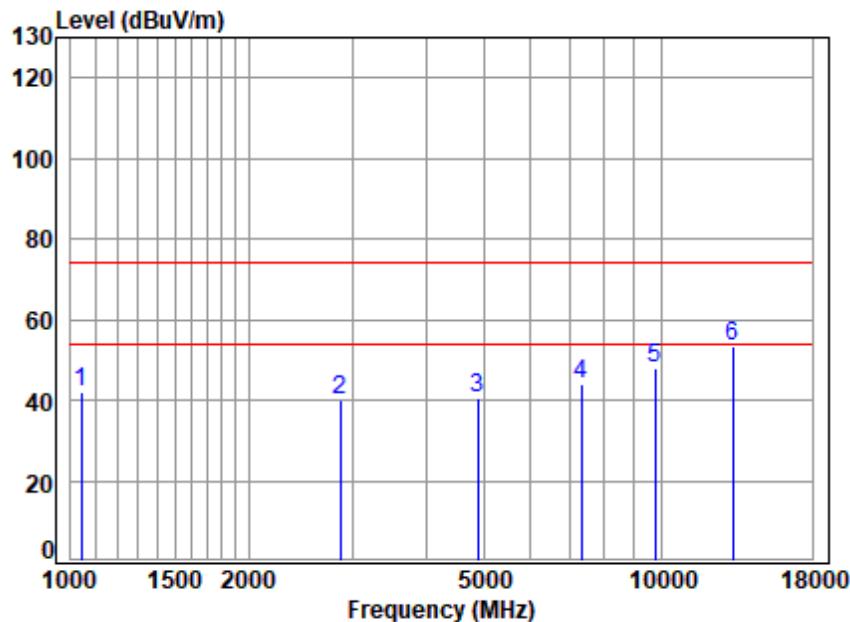
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037502

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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00375AT/00376AT
Mode : 2440 TX RSE
Note : BLE 1M

| | Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|---|-----------|-------|-------|--------|-------|-------|-------|-------------|
| | | MHz | Loss | Factor | Level | Level | Line | |
| 1 | 1041.2950 | 2.75 | 24.14 | 52.54 | 67.70 | 42.05 | 74.00 | -31.95 Peak |
| 2 | 2863.6450 | 5.57 | 28.29 | 53.10 | 59.31 | 40.07 | 74.00 | -33.93 Peak |
| 3 | 4880.0000 | 8.11 | 31.12 | 53.07 | 54.45 | 40.61 | 74.00 | -33.39 peak |
| 4 | 7320.0000 | 8.35 | 36.19 | 53.53 | 52.92 | 43.93 | 74.00 | -30.07 peak |
| 5 | 9760.0000 | 11.30 | 37.87 | 53.43 | 52.06 | 47.80 | 74.00 | -26.20 peak |
| 6 | 13211.690 | 12.32 | 40.09 | 54.11 | 54.87 | 53.17 | 74.00 | -20.83 Peak |

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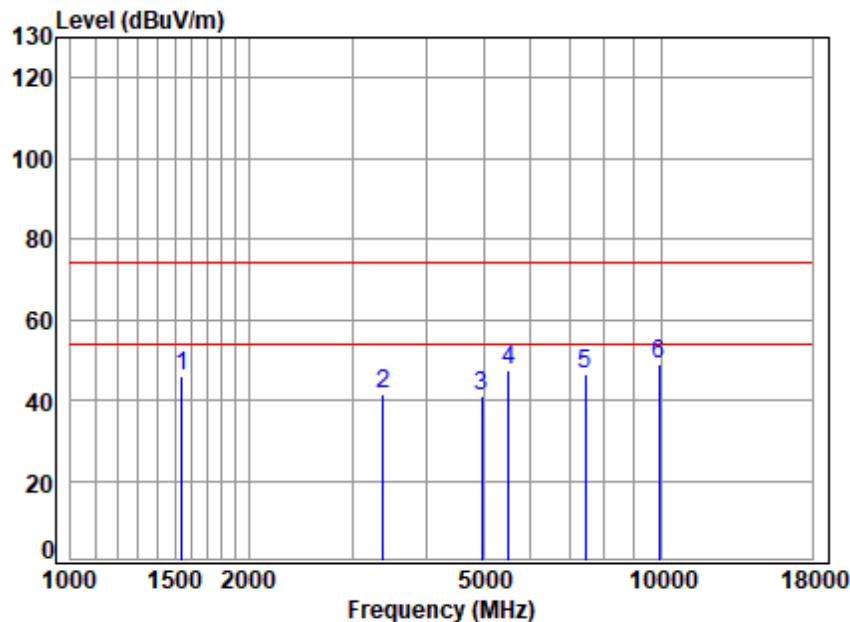
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037502

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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00375AT/00376AT
Mode : 2480 TX RSE
Note : BLE 1M

| 1 | 2 | 3 | 4 | 5 | 6 | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|-----------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|------|--------|
| | | | | | | Freq | Loss | Factor | Level | Level | Line | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | | | | | | dB |
| 1542.7330 | 3.87 | 24.64 | 52.88 | 70.42 | 46.05 | 74.00 | -27.95 | peak | | | | |
| 3376.5230 | 6.69 | 28.68 | 52.98 | 59.34 | 41.73 | 74.00 | -32.27 | peak | | | | |
| 4960.0000 | 8.24 | 31.31 | 53.09 | 54.66 | 41.12 | 74.00 | -32.88 | peak | | | | |
| 5519.0720 | 8.24 | 32.59 | 52.94 | 59.71 | 47.60 | 74.00 | -26.40 | peak | | | | |
| 7440.0000 | 8.40 | 36.33 | 53.55 | 55.11 | 46.29 | 74.00 | -27.71 | peak | | | | |
| 9920.0000 | 11.18 | 38.22 | 53.28 | 53.01 | 49.13 | 74.00 | -24.87 | peak | | | | |

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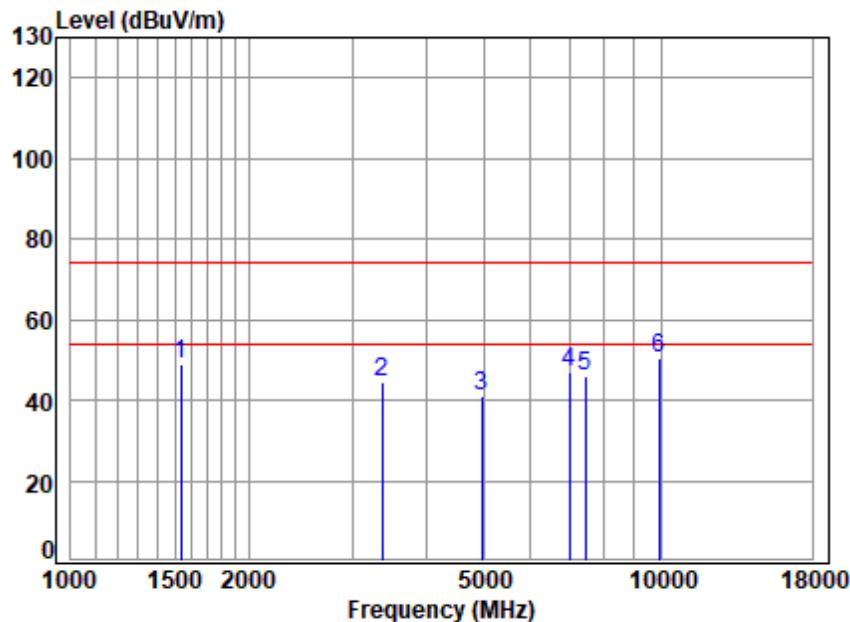
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR220900037502

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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00375AT/00376AT
Mode : 2480 TX RSE
Note : BLE 1M

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark | |
|-------------|------------|------------|---------------|------------|-------------|------------|------------|--------|----|
| | | | | | | | | MHz | dB |
| 1 1533.8410 | 3.85 | 24.61 | 52.87 | 73.27 | 48.86 | 74.00 | -25.14 | peak | |
| 2 3366.7780 | 6.67 | 28.67 | 52.98 | 61.92 | 44.28 | 74.00 | -29.72 | peak | |
| 3 4960.0000 | 8.24 | 31.31 | 53.09 | 54.54 | 41.00 | 74.00 | -33.00 | peak | |
| 4 6974.9820 | 8.17 | 35.74 | 53.48 | 56.37 | 46.80 | 74.00 | -27.20 | peak | |
| 5 7440.0000 | 8.40 | 36.33 | 53.55 | 54.76 | 45.94 | 74.00 | -28.06 | peak | |
| 6 9920.0000 | 11.18 | 38.22 | 53.28 | 54.35 | 50.47 | 74.00 | -23.53 | peak | |

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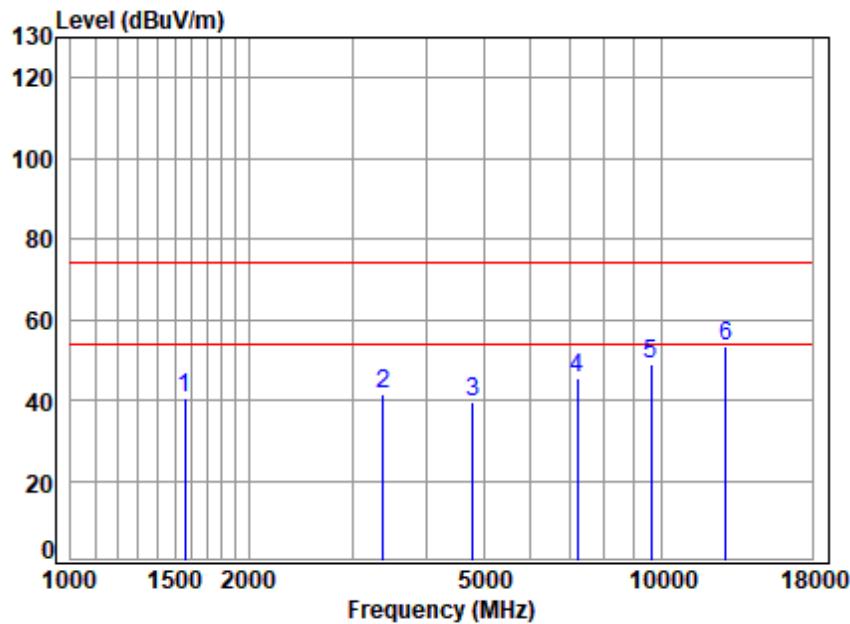
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Report No.: FYCR220900037502

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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00375AT/00376AT
Mode : 2402 TX RSE
Note : BLE 2M

| 1 | Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|---|-----------|-------|--------|--------|-------|--------|--------|-------------|
| | | Loss | Factor | Factor | Level | Level | Line | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1560.6730 | 3.91 | 24.69 | 52.89 | 64.90 | 40.61 | 74.00 | -33.39 Peak |
| 2 | 3376.5230 | 6.69 | 28.68 | 52.98 | 59.07 | 41.46 | 74.00 | -32.54 peak |
| 3 | 4804.0000 | 7.98 | 30.94 | 53.05 | 53.78 | 39.65 | 74.00 | -34.35 peak |
| 4 | 7206.0000 | 8.29 | 36.05 | 53.52 | 54.60 | 45.42 | 74.00 | -28.58 peak |
| 5 | 9608.0000 | 11.41 | 37.53 | 53.58 | 53.46 | 48.82 | 74.00 | -25.18 peak |
| 6 | 12872.440 | 12.48 | 39.71 | 54.18 | 55.20 | 53.21 | 74.00 | -20.79 Peak |

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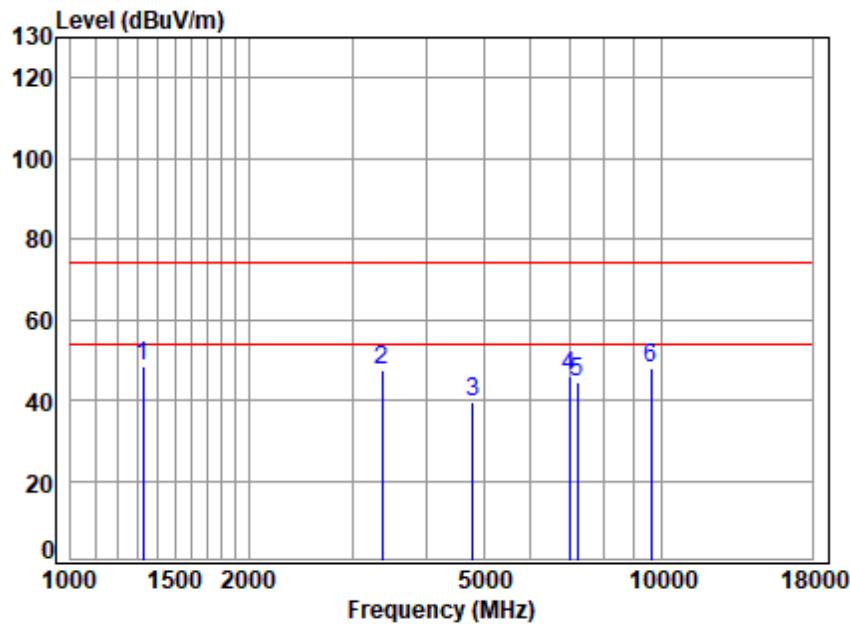
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00375AT/00376AT
Mode : 2402 TX RSE
Note : BLE 2M

| 1 | Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|---|-----------|-------|-------|--------|-------|--------|--------|-------------|
| | | MHz | Loss | Factor | Level | Level | Line | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1327.4460 | 3.43 | 24.23 | 52.75 | 73.70 | 48.61 | 74.00 | -25.39 peak |
| 2 | 3366.7780 | 6.67 | 28.67 | 52.98 | 64.86 | 47.22 | 74.00 | -26.78 peak |
| 3 | 4804.0000 | 7.98 | 30.94 | 53.05 | 53.46 | 39.33 | 74.00 | -34.67 peak |
| 4 | 6995.1720 | 8.19 | 35.79 | 53.50 | 55.58 | 46.06 | 74.00 | -27.94 peak |
| 5 | 7206.0000 | 8.29 | 36.05 | 53.52 | 53.81 | 44.63 | 74.00 | -29.37 peak |
| 6 | 9608.0000 | 11.41 | 37.53 | 53.58 | 52.51 | 47.87 | 74.00 | -26.13 peak |

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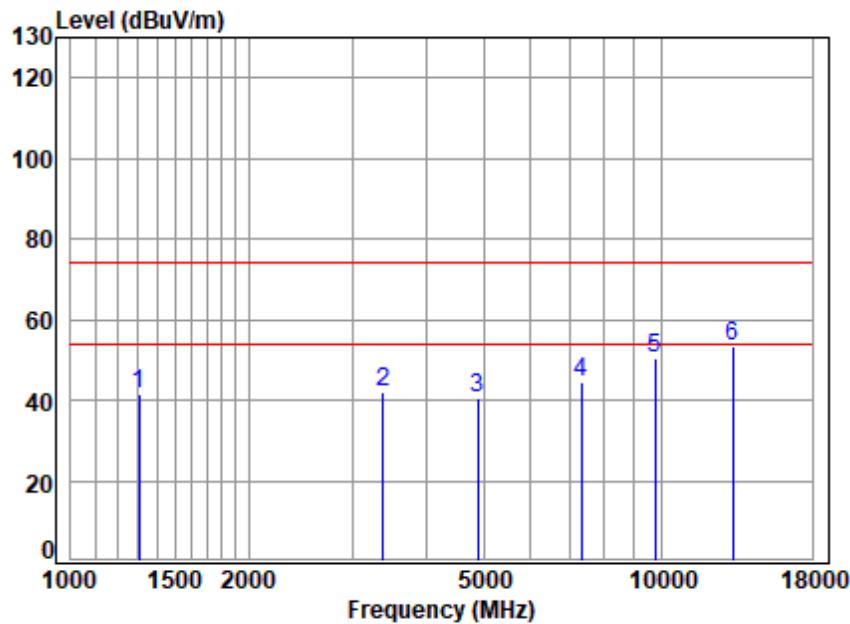
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037502

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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00375AT/00376AT
Mode : 2440 TX RSE
Note : BLE 2M

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Over Remark | |
|-------------|------------|------------|---------------|------------|-------------|------------|------------|-------------|----|
| | | | | | | | | MHz | dB |
| 1 1304.6230 | 3.38 | 24.25 | 52.73 | 66.62 | 41.52 | 74.00 | -32.48 | Peak | |
| 2 3386.2970 | 6.72 | 28.68 | 52.97 | 59.34 | 41.77 | 74.00 | -32.23 | peak | |
| 3 4880.0000 | 8.11 | 31.12 | 53.07 | 54.25 | 40.41 | 74.00 | -33.59 | peak | |
| 4 7320.0000 | 8.35 | 36.19 | 53.53 | 53.59 | 44.60 | 74.00 | -29.40 | peak | |
| 5 9760.0000 | 11.30 | 37.87 | 53.43 | 54.88 | 50.62 | 74.00 | -23.38 | peak | |
| 6 13211.690 | 12.32 | 40.09 | 54.11 | 55.00 | 53.30 | 74.00 | -20.70 | Peak | |

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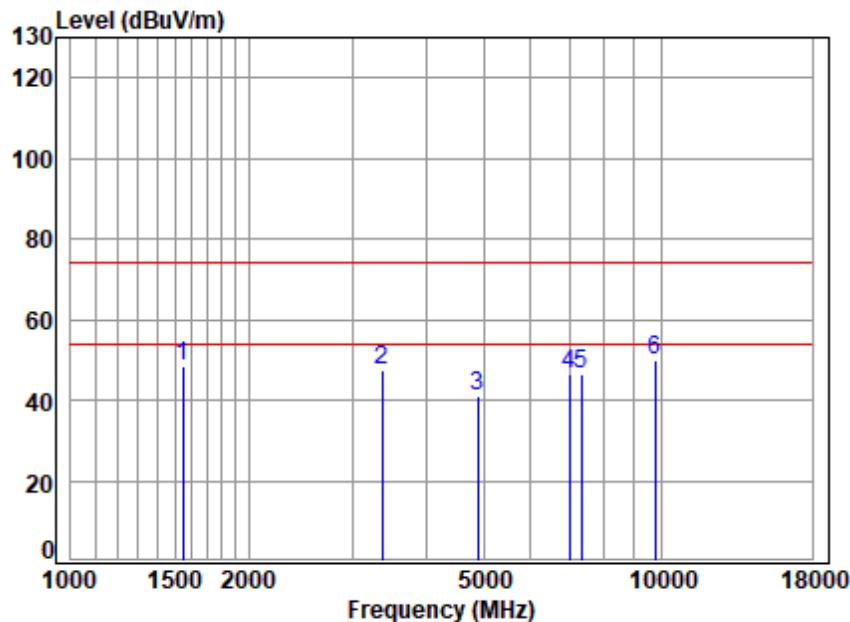
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037502

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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00375AT/00376AT
Mode : 2480 TX RSE
Note : BLE 2M

| 1 | 2 | 3 | 4 | 5 | 6 | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|-----------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|------|--------|
| | | | | | | Freq | Loss | Factor | Level | Level | Line | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | | | | | | dB |
| 1547.1990 | 3.88 | 24.65 | 52.88 | 72.75 | 48.40 | 74.00 | -25.60 | peak | | | | |
| 3366.7780 | 6.67 | 28.67 | 52.98 | 64.87 | 47.23 | 74.00 | -26.77 | peak | | | | |
| 4880.0000 | 8.11 | 31.12 | 53.07 | 55.01 | 41.17 | 74.00 | -32.83 | peak | | | | |
| 6974.9820 | 8.17 | 35.74 | 53.48 | 56.20 | 46.63 | 74.00 | -27.37 | peak | | | | |
| 7320.0000 | 8.35 | 36.19 | 53.53 | 55.69 | 46.70 | 74.00 | -27.30 | peak | | | | |
| 9760.0000 | 11.30 | 37.87 | 53.43 | 54.07 | 49.81 | 74.00 | -24.19 | peak | | | | |

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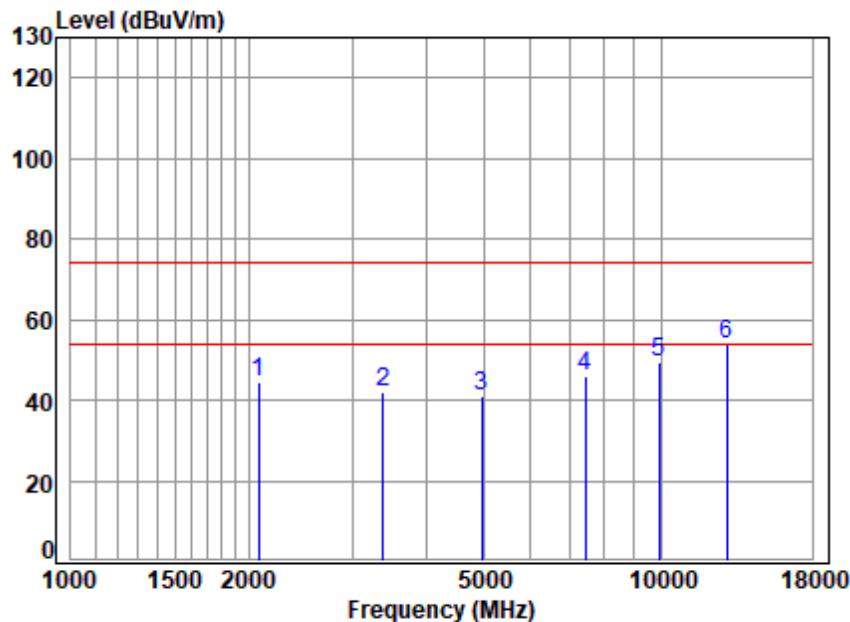
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037502

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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00375AT/00376AT
Mode : 2480 TX RSE
Note : BLE 2M

| | Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|---|-----------|-------|--------|--------|-------|--------|--------|-------------|
| | | Loss | Factor | Factor | Level | Level | Line | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2077.7050 | 4.81 | 26.40 | 53.10 | 66.45 | 44.56 | 74.00 | -29.44 Peak |
| 2 | 3386.2970 | 6.72 | 28.68 | 52.97 | 59.70 | 42.13 | 74.00 | -31.87 peak |
| 3 | 4960.0000 | 8.24 | 31.31 | 53.09 | 54.70 | 41.16 | 74.00 | -32.84 peak |
| 4 | 7440.0000 | 8.40 | 36.33 | 53.55 | 55.00 | 46.18 | 74.00 | -27.82 peak |
| 5 | 9920.0000 | 11.18 | 38.22 | 53.28 | 53.55 | 49.67 | 74.00 | -24.33 peak |
| 6 | 12909.700 | 12.48 | 39.71 | 54.18 | 55.76 | 53.77 | 74.00 | -20.23 Peak |

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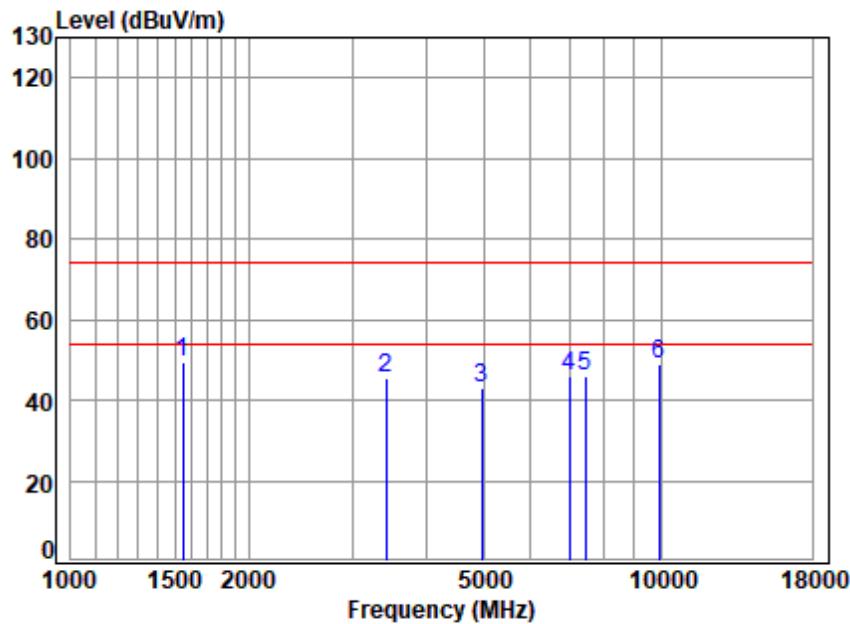
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR220900037502

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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00375AT/00376AT
Mode : 2440 TX RSE
Note : BLE 2M

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark | |
|-------------|------------|------------|---------------|------------|-------------|------------|------------|--------|----|
| | | | | | | | | MHz | dB |
| 1 1547.1990 | 3.88 | 24.65 | 52.88 | 73.98 | 49.63 | 74.00 | -24.37 | peak | |
| 2 3425.6750 | 6.81 | 28.69 | 52.96 | 62.82 | 45.36 | 74.00 | -28.64 | peak | |
| 3 4960.0000 | 8.24 | 31.31 | 53.09 | 56.75 | 43.21 | 74.00 | -30.79 | peak | |
| 4 6995.1720 | 8.19 | 35.79 | 53.50 | 55.68 | 46.16 | 74.00 | -27.84 | peak | |
| 5 7440.0000 | 8.40 | 36.33 | 53.55 | 54.70 | 45.88 | 74.00 | -28.12 | peak | |
| 6 9920.0000 | 11.18 | 38.22 | 53.28 | 53.06 | 49.18 | 74.00 | -24.82 | peak | |

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8 Test Setup Photo

Refer to Test Setup Photo for FYCR2209000375AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2209000375AT

- End of the Report -



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