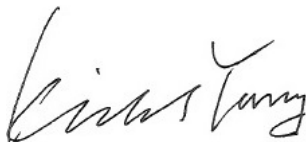


TEST REPORT

Application No.: FYCR2205000182AT
Applicant: SHANTOU CITY CHENGHAI JINGWEI INDUSTRIAL CO., LTD.
Address of Applicant: NANWAN INDUSTRIAL AREA, LIANNAN ROAD, CHENGHAI DISTRICT, SHANTOU, China
Manufacturer: SHANTOU CITY CHENGHAI JINGWEI INDUSTRIAL CO., LTD.
Address of Manufacturer: NANWAN INDUSTRIAL AREA, LIANNAN ROAD, CHENGHAI DISTRICT, SHANTOU, China
Equipment Under Test (EUT):
EUT Name: REMOTE CONTROL CAR SERIES
Model No.: 866-185, 866-180, 866-181, 866-182, 866-183, 866-184, 866-186, 866-187, 866-188, 866-189, 866-241, 866-242, 866-243, 866-244, 866-245, 866-246, 866-247, 866-248, 866-249, 866-186A, 866-186B, 866-186C, 866-186D ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID: 2APVY866-1012141618
Standard(s) : 47 CFR Part 15, Subpart C 15.249
Date of Receipt: 2022-05-19
Date of Test: 2022-05-24 to 2022-05-30
Date of Issue: 2022-06-06

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

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



Kidd Yang
EMC Laboratory Manager



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2022-06-06 | | Original |
| | | | | |
| | | | | |

| | | | |
|---------------------------------|--|-----------------------------------|--|
| Authorized for issue by: | | | |
| | | <i>Tree Zhan</i> | |
| | | <hr/> | |
| | | Tree Zhan/Project Engineer | |
| | | <i>Winkey Wang</i> | |
| | | <hr/> | |
| | | 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 15.249 | N/A | 47 CFR Part 15, Subpart C 15.203 | Pass |

| Radio Spectrum Matter Part | | | | |
|--|----------------------------------|--|---|--------|
| Item | Standard | Method | Requirement | Result |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.9 | 47 CFR Part 15, Subpart C 15.215 | Pass |
| Field Strength of the Fundamental Signal (15.249(a)) | | ANSI C63.10 (2013) Section 6.5&6.6 | 47 CFR Part 15, Subpart C 15.249(a) | Pass |
| Restricted Band Around Fundamental Frequency | | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209 | Pass |
| Radiated Emissions | | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d) | Pass |

Declaration of EUT Family Grouping:

Model No.:

866-185, 866-180, 866-181, 866-182, 866-183, 866-184, 866-186, 866-187, 866-188, 866-189, 866-241, 866-242, 866-243, 866-244, 866-245, 866-246, 866-247, 866-248, 866-249, 866-186A, 866-186B, 866-186C, 866-186D

Only the model 866-185 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on colour, appearance and packaging.



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9 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)43



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4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|--|
| Power supply: | 3V DC(1.5V x 2 "AA" Size Batteries) for TX |
| Operating Frequency: | 2410MHz to 2473MHz |
| Channel number: | 32 |
| Modulation Type: | GFSK |
| Sample Type: | Portable production |
| Antenna Type: | Integral Antenna |
| Antenna Gain: | 0dBi |

Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 1 | 2410 | 12 | 2430 | 23 | 2454 |
| 2 | 2414 | 13 | 2431 | 24 | 2456 |
| 3 | 2415 | 14 | 2433 | 25 | 2458 |
| 4 | 2416 | 15 | 2434 | 26 | 2462 |
| 5 | 2417 | 16 | 2439 | 27 | 2464 |
| 6 | 2418 | 17 | 2441 | 28 | 2465 |
| 7 | 2419 | 18 | 2442 | 29 | 2466 |
| 8 | 2421 | 19 | 2444 | 30 | 2467 |
| 9 | 2426 | 20 | 2446 | 31 | 2469 |
| 10 | 2428 | 21 | 2450 | 32 | 2473 |
| 11 | 2429 | 22 | 2452 | | |

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 |
|--|--|
| 20dB Bandwidth | ± 0.3% |
| Field Strength of the Fundamental Signal (15.249(a)) | ± 3.1dB (Below 1GHz), ± 4.4dB (Above 1GHz) |
| Restricted Band Around Fundamental Frequency | ± 3.1dB (Below 1GHz), ± 4.4dB (Above 1GHz) |
| Radiated Emissions Below 1GHz | ± 3.1dB (Below 1GHz) |
| Radiated Emissions Above 1GHz | ± 4.4dB (Above 1GHz) |

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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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

| 20dB Bandwidth | | | | | |
|---|------------------------------|---------------|--------------|-----------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2021/7/13 | 2022/7/12 |
| MXA Signal Analyzer | Agilent | N9020A | SEM004-20 | 2021/7/13 | 2022/7/12 |
| Signal Generator | Agilent | N5173B | SEM006-05 | 2021/7/13 | 2022/7/12 |
| ESG Vector Signal Generator | Agilent | E4438C | SEM006-15 | 2021/7/13 | 2022/7/12 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-15 | 2021/7/13 | 2022/7/12 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-16 | 2021/7/13 | 2022/7/12 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW 500 | SEM010-08 | 2021/7/13 | 2022/7/12 |
| Programmable DC Source | Chroma | 62024P-80-60 | SEM011-09 | 2021/7/13 | 2022/7/12 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2021/7/13 | 2022/7/12 |

| Field Strength of the Fundamental Signal (15.249(a)) | | | | | |
|--|------------------------------------|-------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2022/7/12 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-33 | 2021/9/25 | 2024/9/24 |
| Biconical Antenna | Schwarzbeck | VUBA9117 | SEM003-35 | 2021/12/26 | 2024/12/25 |
| Loop Antenna | ETS-LINDGREN | 6502 | SEM003-36 | 2021/9/26 | 2024/9/25 |
| MXE EMI receiver | Agilent | N9038A | SEM004-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier | HP | 8447D | SEM005-02 | 2021/7/13 | 2022/7/12 |
| 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 |
| Double-ridged waveguide horn | ETS-LINDGREN | 3117 | SEM003-34 | 2021/9/25 | 2024/9/24 |
| Spectrum Analyzer | Rohde & Schwarz | 101288 | SEM004-08 | 2021/7/13 | 2022/7/12 |
| Low Noise Amplifier | CLAVIO | BDLNA-0118-352810 | SEM005-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2021/7/13 | 2022/7/12 |



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| Restricted Band Around Fundamental Frequency | | | | | |
|---|------------------------------------|-------------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2022/7/12 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-33 | 2021/9/25 | 2024/9/24 |
| Biconical Antenna | Schwarzbeck | VUBA9117 | SEM003-35 | 2021/12/26 | 2024/12/25 |
| Loop Antenna | ETS-LINDGREN | 6502 | SEM003-36 | 2021/9/26 | 2024/9/25 |
| MXE EMI receiver | Agilent | N9038A | SEM004-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier | HP | 8447D | SEM005-02 | 2021/7/13 | 2022/7/12 |
| 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 |
| Double-ridged waveguide horn | ETS-LINDGREN | 3117 | SEM003-34 | 2021/9/25 | 2024/9/24 |
| Spectrum Analyzer | Rohde & Schwarz | 101288 | SEM004-08 | 2021/7/13 | 2022/7/12 |
| Low Noise Amplifier | CLAVIO | BDLNA-0118-352810 | SEM005-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2021/7/13 | 2022/7/12 |

| Radiated 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 | 2022/7/12 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-33 | 2021/9/25 | 2024/9/24 |
| Biconical Antenna | Schwarzbeck | VUBA9117 | SEM003-35 | 2021/12/26 | 2024/12/25 |
| Loop Antenna | ETS-LINDGREN | 6502 | SEM003-36 | 2021/9/26 | 2024/9/25 |
| MXE EMI receiver | Agilent | N9038A | SEM004-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier | HP | 8447D | SEM005-02 | 2021/7/13 | 2022/7/12 |
| 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 |
| Double-ridged waveguide horn | ETS-LINDGREN | 3117 | SEM003-34 | 2021/9/25 | 2024/9/24 |
| Spectrum Analyzer | Rohde & Schwarz | 101288 | SEM004-08 | 2021/7/13 | 2022/7/12 |
| Low Noise Amplifier | CLAVIO | BDLNA-0118-352810 | SEM005-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier | Compliance Directions Systems | PAP-2640-50 | SEM005-08 | 2021/7/13 | 2022/7/12 |



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| | | | | | |
|---------------|-----------------|-----------|-----------|-----------|-----------|
| | Inc. | | | | |
| Pre-amplifier | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2021/7/13 | 2022/7/12 |

| Radiated 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 | 2022/7/12 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-33 | 2021/9/25 | 2024/9/24 |
| Biconical Antenna | Schwarzbeck | VUBA9117 | SEM003-35 | 2021/12/26 | 2024/12/25 |
| Loop Antenna | ETS-LINDGREN | 6502 | SEM003-36 | 2021/9/26 | 2024/9/25 |
| MXE EMI receiver | Agilent | N9038A | SEM004-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier | HP | 8447D | SEM005-02 | 2021/7/13 | 2022/7/12 |
| 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 |
| Double-ridged waveguide horn | ETS-LINDGREN | 3117 | SEM003-34 | 2021/9/25 | 2024/9/24 |
| Spectrum Analyzer | Rohde & Schwarz | 101288 | SEM004-08 | 2021/7/13 | 2022/7/12 |
| Low Noise Amplifier | CLAVIO | BDLNA-0118-352810 | SEM005-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2021/7/13 | 2022/7/12 |

| General used equipment | | | | | |
|---------------------------------|---------------------|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Mingle | TH607 | SEM002-22 | 2021-07-13 | 2022-07-12 |
| Humidity/ Temperature Indicator | Mingle | TH607 | SEM002-23 | 2021-07-13 | 2022-07-12 |
| Barometer | DUMAI | DYM3 | SEM002-24 | 2021-07-13 | 2022-07-12 |



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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

15.203 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, 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.

6.1.2 Conclusion

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2013) Section 6.9
Limit: N/A

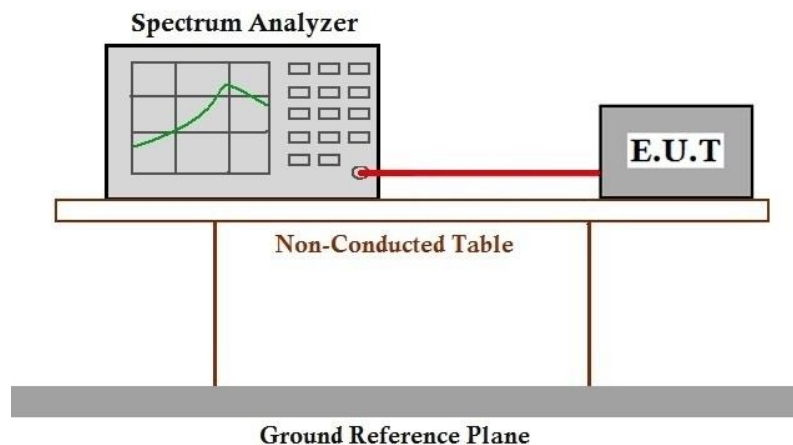
7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 24.6 °C Humidity: 62.9 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 00 | TX mode_Keep the EUT in transmitting with modulation mode. |

7.1.3 Test Setup Diagram



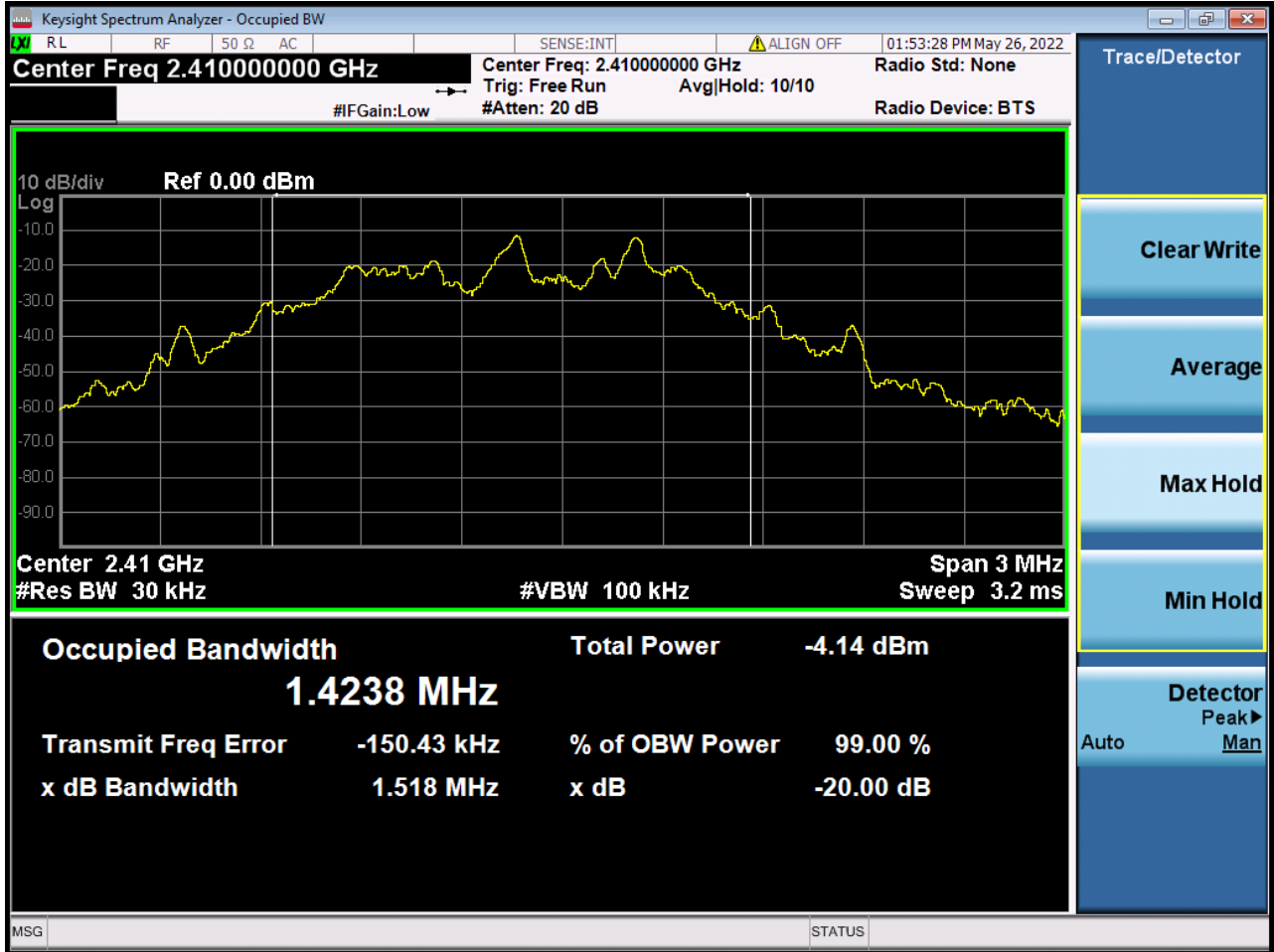
7.1.4 Measurement Procedure and Data

| Test channel | 20dB bandwidth (MHz) | Results |
|--------------|----------------------|---------|
| Lowest | 1.518 | Pass |
| Middle | 1.339 | Pass |
| Highest | 1.515 | Pass |



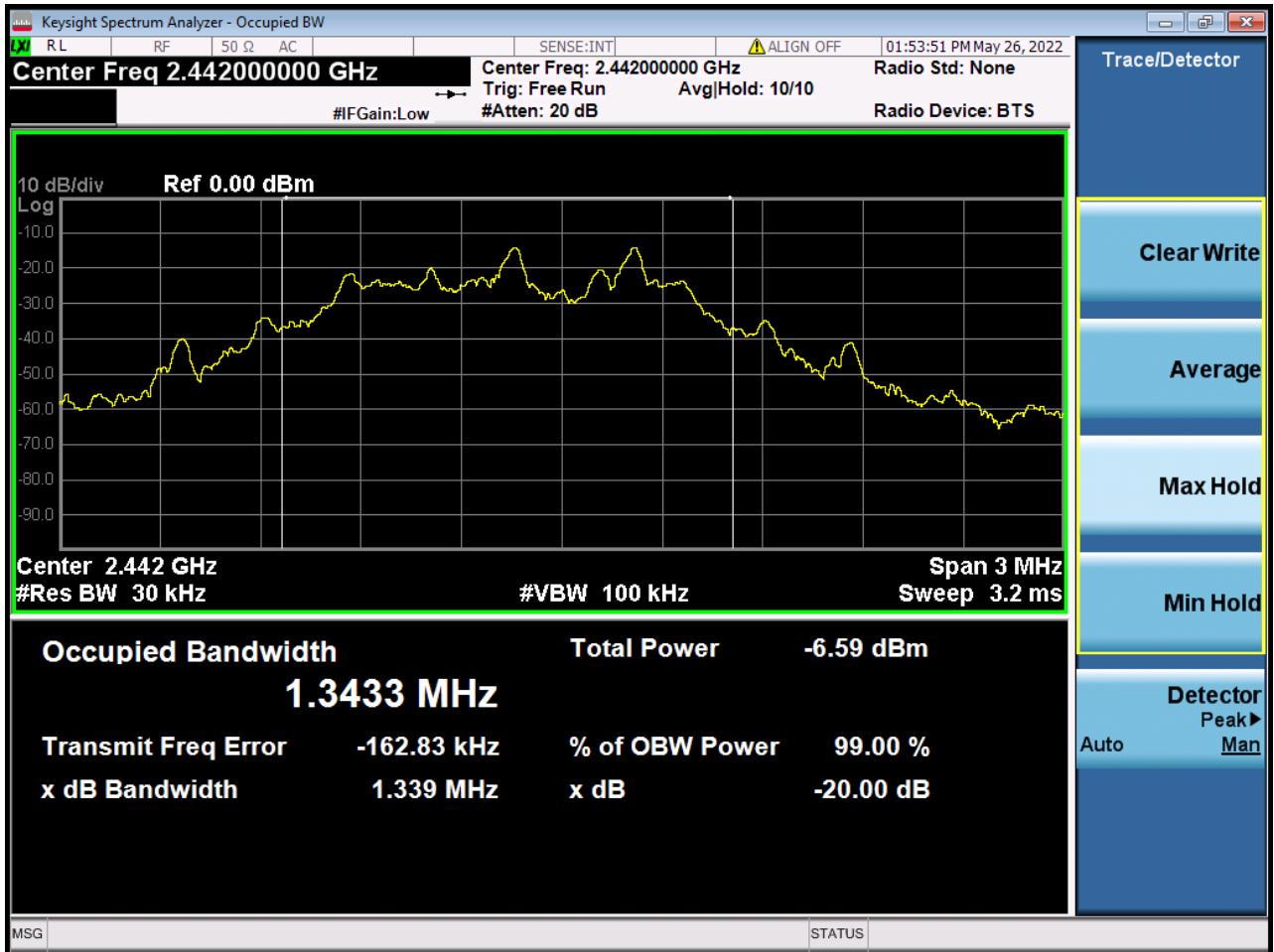
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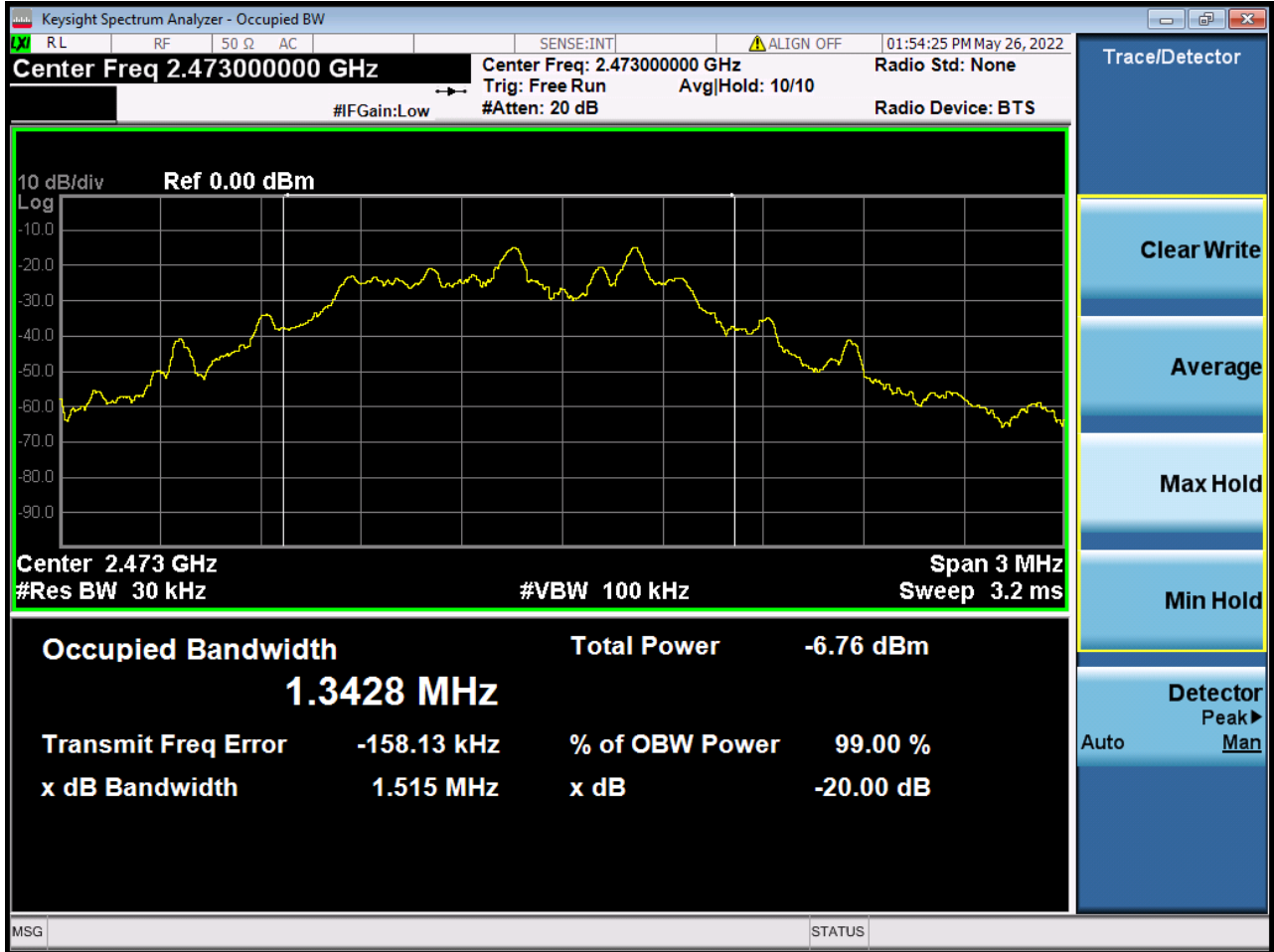
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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
 Test Method: ANSI C63.10 (2013) Section 6.5&6.6
 Measurement Distance: 3m

Limit:

| Fundamental frequency(MHz) | Field strength of fundamental(millivolts/meter) | Field strength of harmonics(microvolts/meter) |
|----------------------------|---|---|
| 902-928 | 50 | 500 |
| 2400-2483.5 | 50 | 500 |
| 5725-5875 | 50 | 500 |
| 24000-24250 | 250 | 2500 |

Remark: The frequencies above 1000MHz 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 fundamental frequency in “902-928MHz”, the field strength of fundamental is based on Quasi-Peak.

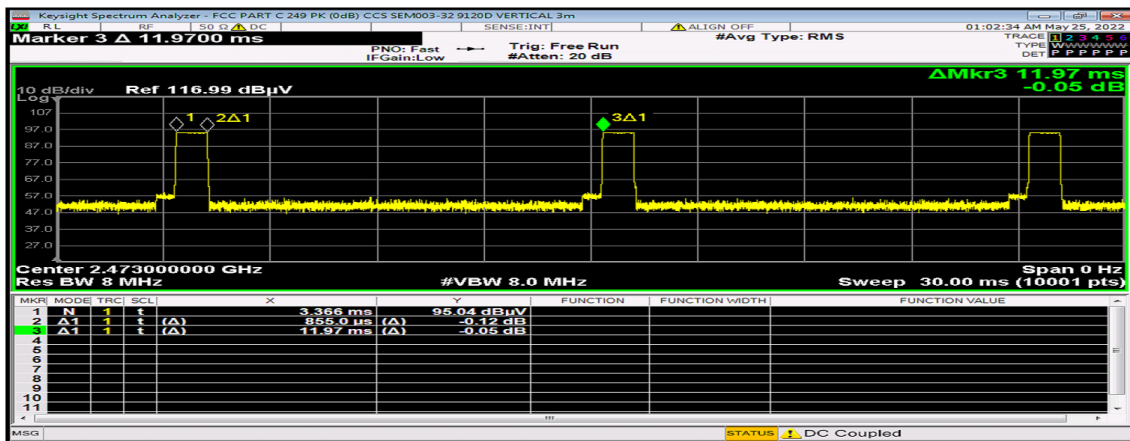
Average value:

| | |
|--------------------|----------------------------------|
| Calculate Formula: | Average value=Peak value + PDCF |
| | PDCF=20 log(Duty cycle) |
| | Duty cycle= T on time / T period |
| Test data: | Ton time =0.855ms |
| | T period =11.97ms |
| | Duty cycle=7.143% |
| | PDCF value= -22.92dB |



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7.2.1 E.U.T. Operation

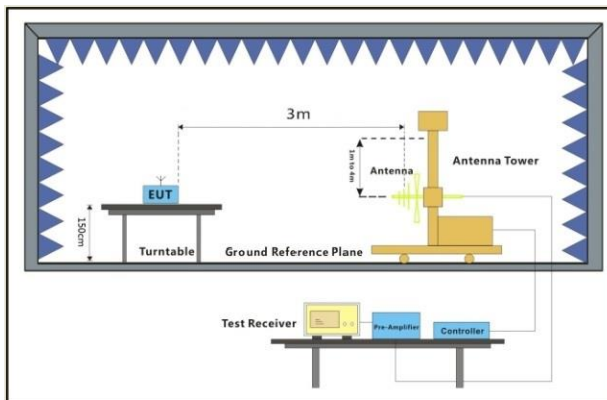
Operating Environment:

Temperature: 23.6 °C Humidity: 52.8 % RH Atmospheric Pressure: 1020 mbar

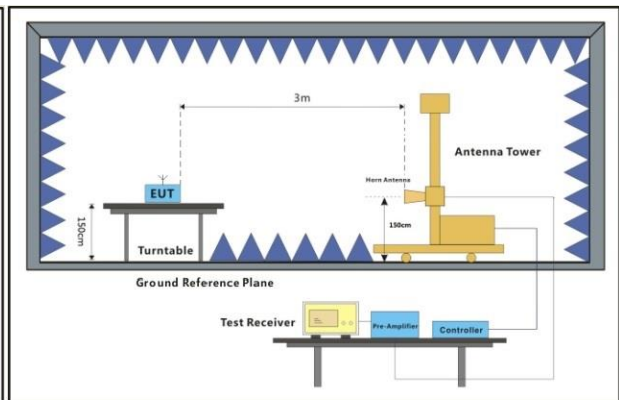
7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 00 | TX mode_Keep the EUT in transmitting with modulation mode. |

7.2.3 Test Setup Diagram



30MHz-1GHz



Above 1GHz



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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.

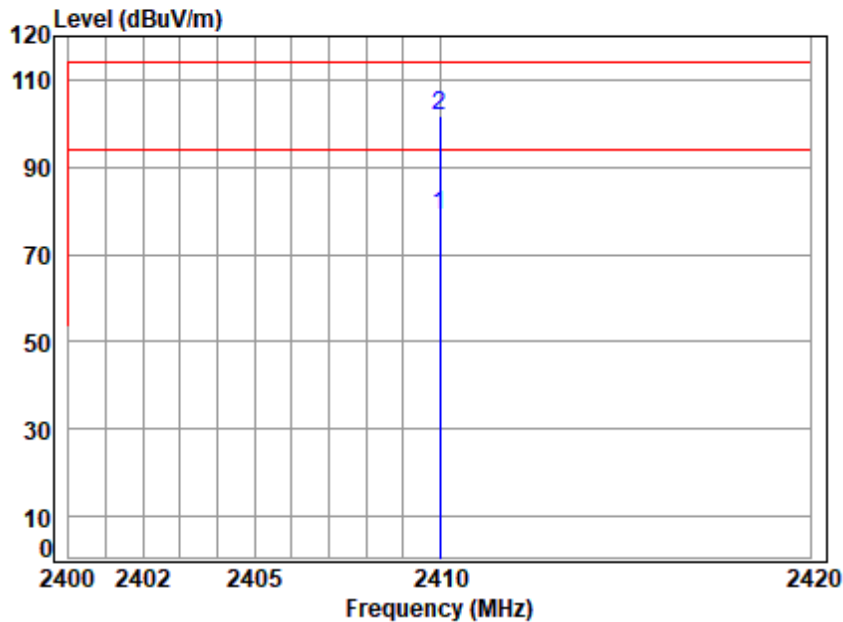
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00182AT
 Mode : 2410 Field Strength

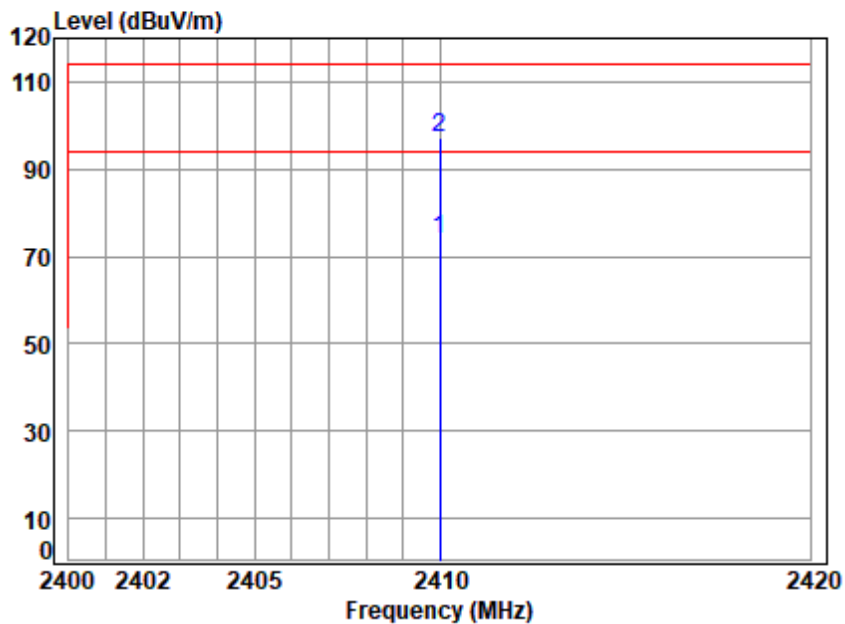
| | | Cable | Ant | Preamp | Read | Limit | Over | |
|-----|---------|-------|--------|--------|--------|--------|--------|----------------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 a | 2410.00 | 5.07 | 27.20 | 32.50 | 79.04 | 78.81 | 94.00 | -15.19 Average |
| 2 p | 2410.00 | 5.07 | 27.20 | 32.50 | 101.96 | 101.73 | 114.00 | -12.27 peak |



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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00182AT
Mode : 2410 Field Strength

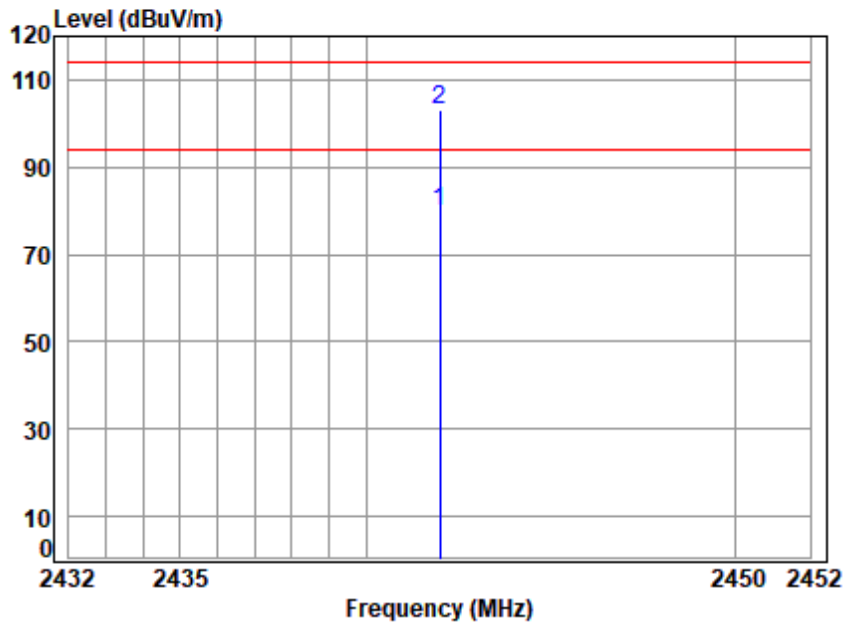
| | | Cable | Ant | Preamp | Read | Limit | Over | |
|-----|---------|-------|--------|--------|-------|--------|--------|----------------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 a | 2410.00 | 5.07 | 27.20 | 32.50 | 74.35 | 74.12 | 94.00 | -19.88 Average |
| 2 p | 2410.00 | 5.07 | 27.20 | 32.50 | 97.27 | 97.04 | 114.00 | -16.96 peak |



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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00182AT
Mode : 2442 Field Strength

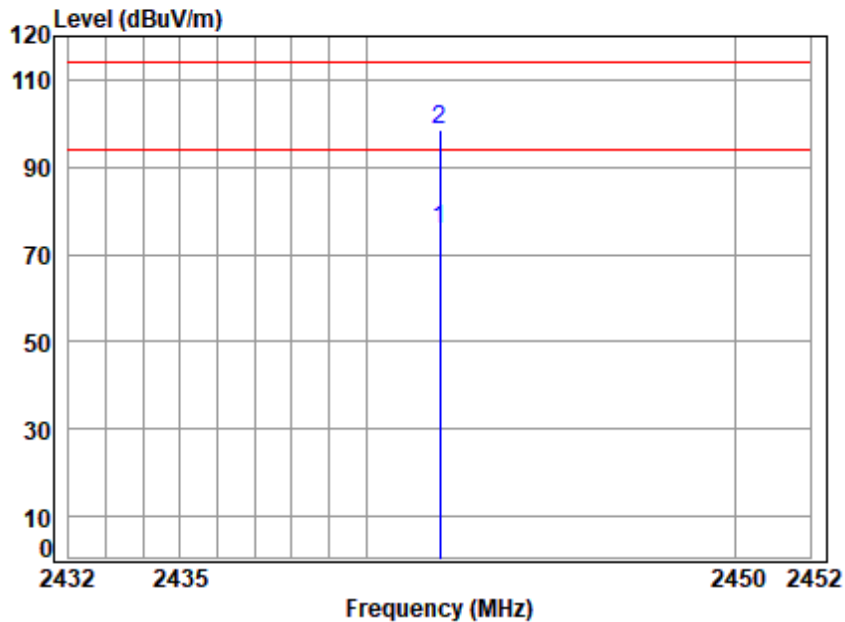
| | | Cable | Ant | Preamp | Read | Limit | Over | |
|------|---------|--------|--------|--------|--------|--------|--------|----------------|
| Freq | Loss | Factor | Factor | Factor | Level | Level | Line | Limit Remark |
| MHz | dB | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 a | 2442.00 | 5.09 | 27.27 | 32.50 | 80.20 | 80.06 | 94.00 | -13.94 Average |
| 2 p | 2442.00 | 5.09 | 27.27 | 32.50 | 103.12 | 102.98 | 114.00 | -11.02 Peak |



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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00182AT
 Mode : 2442 Field Strength

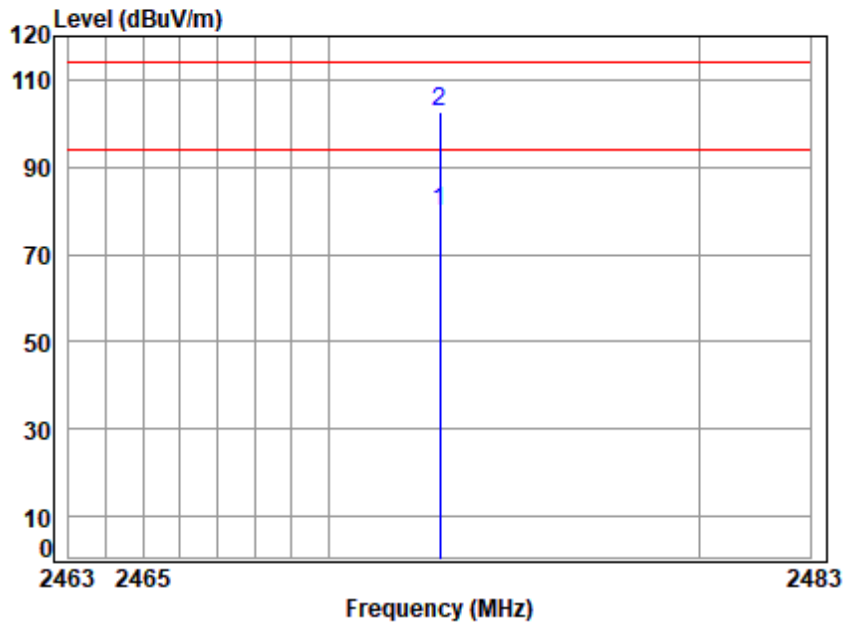
| | | Cable | Ant | Preamp | Read | Limit | Over | |
|-----|---------|-------|--------|--------|-------|--------|--------|----------------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 a | 2442.00 | 5.09 | 27.27 | 32.50 | 75.73 | 75.59 | 94.00 | -18.41 Average |
| 2 p | 2442.00 | 5.09 | 27.27 | 32.50 | 98.65 | 98.51 | 114.00 | -15.49 Peak |



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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00182AT
Mode : 2473 Field Strength

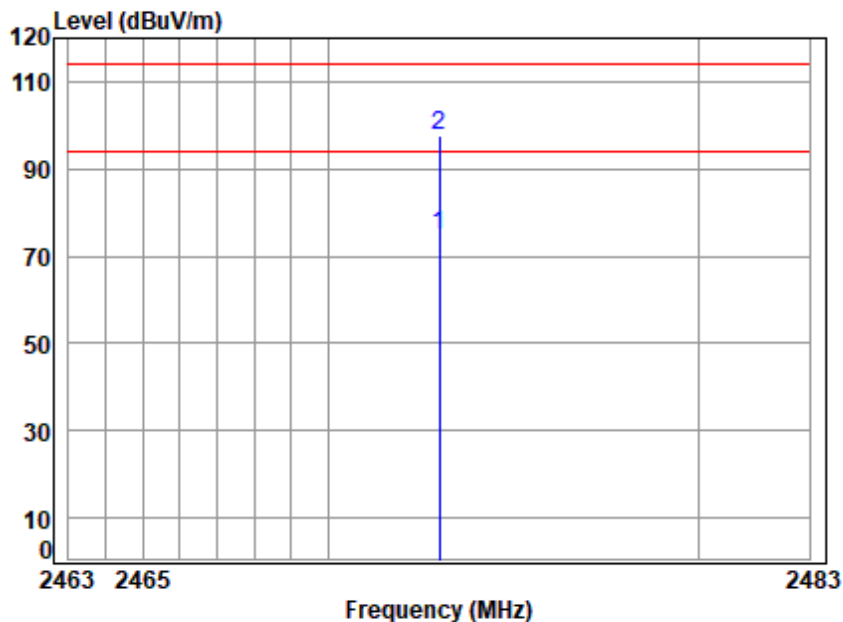
| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|-----|---------|-------|--------|--------|--------|--------|--------|--------|---------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 a | 2473.00 | 5.11 | 27.34 | 32.50 | 79.82 | 79.77 | 94.00 | -14.23 | Average |
| 2 p | 2473.00 | 5.11 | 27.34 | 32.50 | 102.74 | 102.69 | 114.00 | -11.31 | peak |



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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00182AT
 Mode : 2473 Field Strength

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|------|---------|--------|--------|--------|-------|--------|--------|----------------|
| Freq | Loss | Factor | Factor | Factor | Level | Level | Line | Limit Remark |
| MHz | dB | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 a | 2473.00 | 5.11 | 27.34 | 32.50 | 74.90 | 74.85 | 94.00 | -19.15 Average |
| 2 p | 2473.00 | 5.11 | 27.34 | 32.50 | 97.82 | 97.77 | 114.00 | -16.23 peak |

Remark:

- 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
- 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. So, only the above measurement data were shown in the report



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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

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

Measurement Distance: 3m

Limit:

| Frequency | Limit (dBuV/m @3m) | Remark |
|---------------|--------------------|------------------|
| 30MHz-88MHz | 40.0 | Quasi-peak Value |
| 88MHz-216MHz | 43.5 | Quasi-peak Value |
| 216MHz-960MHz | 46.0 | Quasi-peak Value |
| 960MHz-1GHz | 54.0 | Quasi-peak Value |
| Above 1GHz | 54.0 | Average Value |
| Above 1GHz | 74.0 | Peak Value |

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 52.8 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

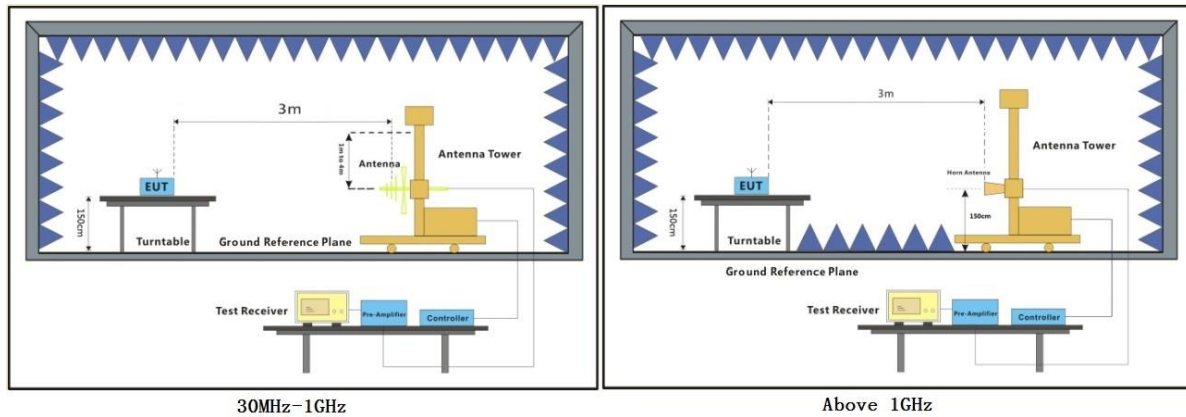
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 00 | TX mode_Keep the EUT in transmitting with modulation mode. |



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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

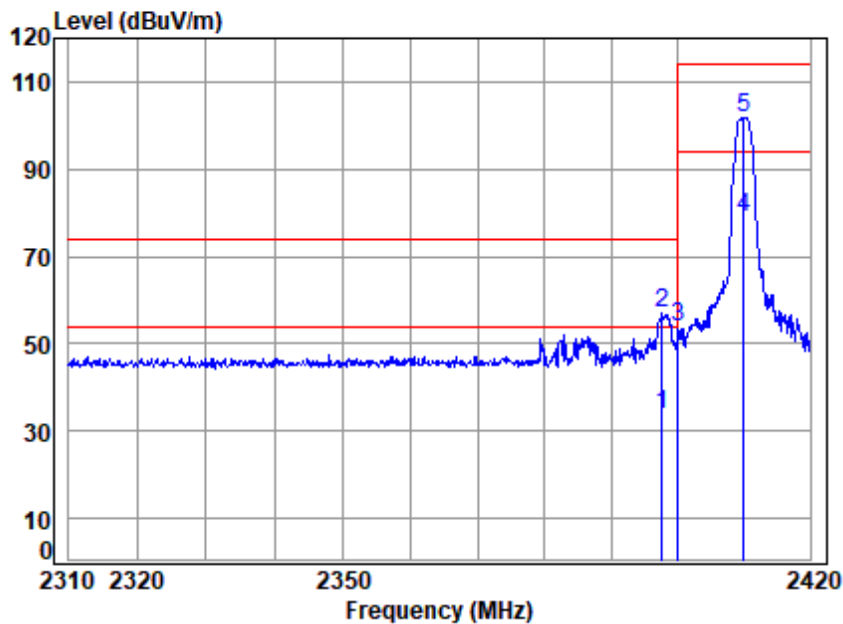
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00182AT
 Mode : 2410 Band edge

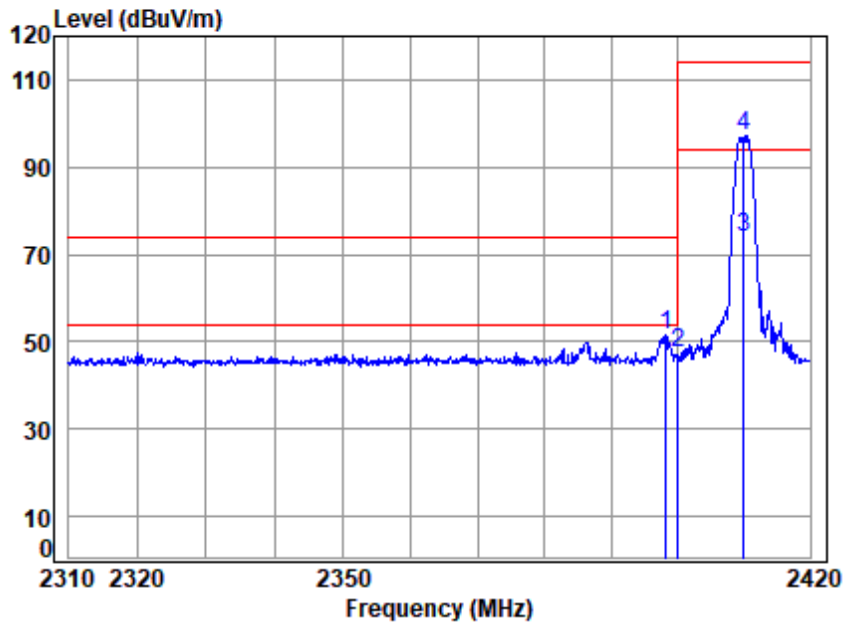
| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark |
|-----|---------|------------|------------|---------------|------------|-------------|------------|----------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2397.59 | 5.06 | 27.18 | 32.50 | 34.20 | 33.94 | 54.00 | -20.06 Average |
| 2 | 2397.59 | 5.06 | 27.18 | 32.50 | 57.12 | 56.86 | 74.00 | -17.14 Peak |
| 3 | 2400.00 | 5.06 | 27.18 | 32.50 | 54.12 | 53.86 | 74.00 | -20.14 peak |
| 4 a | 2410.00 | 5.07 | 27.20 | 32.50 | 79.04 | 78.81 | 94.00 | -15.19 Average |
| 5 p | 2410.00 | 5.07 | 27.20 | 32.50 | 101.96 | 101.73 | 114.00 | -12.27 peak |



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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00182AT
 Mode : 2410 Band edge

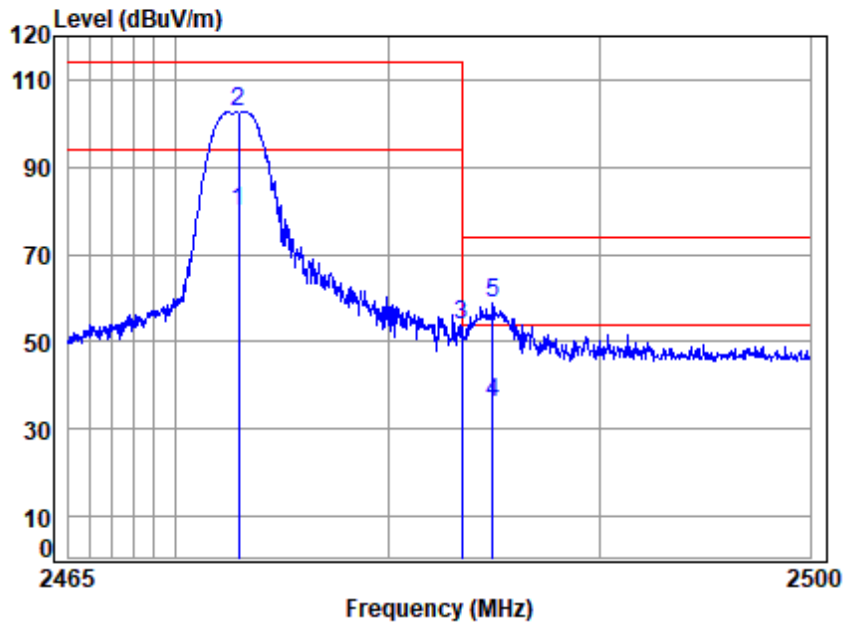
| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark |
|-----|---------|------------|------------|---------------|------------|-------------|------------|----------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2398.26 | 5.06 | 27.18 | 32.50 | 51.82 | 51.56 | 74.00 | -22.44 Peak |
| 2 | 2400.00 | 5.06 | 27.18 | 32.50 | 47.82 | 47.56 | 74.00 | -26.44 peak |
| 3 a | 2410.00 | 5.07 | 27.20 | 32.50 | 74.35 | 74.12 | 94.00 | -19.88 Average |
| 4 p | 2410.00 | 5.07 | 27.20 | 32.50 | 97.27 | 97.04 | 114.00 | -16.96 peak |



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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00182AT
Mode : 2473 Band edge

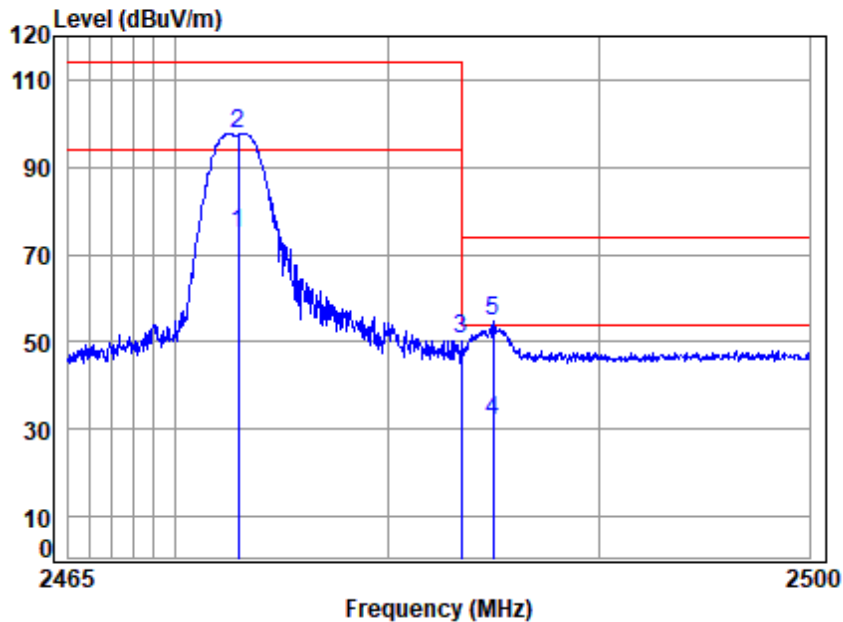
| | | Cable | Ant | Preamp | Read | Limit | Over | |
|-----|---------|-------|--------|--------|--------|--------|--------|----------------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 a | 2473.00 | 5.11 | 27.34 | 32.50 | 79.82 | 79.77 | 94.00 | -14.23 Average |
| 2 p | 2473.00 | 5.11 | 27.34 | 32.50 | 102.74 | 102.69 | 114.00 | -11.31 peak |
| 3 | 2483.50 | 5.12 | 27.37 | 32.50 | 53.86 | 53.85 | 74.00 | -20.15 peak |
| 4 | 2484.96 | 5.12 | 27.37 | 32.50 | 36.00 | 35.99 | 54.00 | -18.01 Average |
| 5 | 2484.96 | 5.12 | 27.37 | 32.50 | 58.92 | 58.91 | 74.00 | -15.09 Peak |



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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00182AT
 Mode : 2473 Band edge

| | | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|---------|--------|--------|--------|-------|--------|--------|--------|---------|
| Freq | Loss | Factor | Factor | Factor | Level | Level | Line | Limit | |
| MHz | dB | | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 a | 2473.00 | 5.11 | 27.34 | 32.50 | 74.90 | 74.85 | 94.00 | -19.15 | Average |
| 2 p | 2473.00 | 5.11 | 27.34 | 32.50 | 97.82 | 97.77 | 114.00 | -16.23 | peak |
| 3 | 2483.50 | 5.12 | 27.37 | 32.50 | 50.65 | 50.64 | 74.00 | -23.36 | peak |
| 4 | 2485.00 | 5.12 | 27.37 | 32.50 | 31.92 | 31.91 | 54.00 | -22.09 | Average |
| 5 | 2485.00 | 5.12 | 27.37 | 32.50 | 54.84 | 54.83 | 74.00 | -19.17 | Peak |

Remark:

- 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
- 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. So, only the above measurement data were shown in the report



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7.4 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
 Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6
 Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength (microvolts/meter) | Limit (dBuV/m) | Detector | Measurement Distance (meters) |
|----------------|-----------------------------------|----------------|----------|-------------------------------|
| 0.009-0.490 | 2400/F(kHz) | - | - | 300 |
| 0.490-1.705 | 24000/F(kHz) | - | - | 30 |
| 1.705-30 | 30 | - | - | 30 |
| 30-88 | 100 | 40.0 | QP | 3 |
| 88-216 | 150 | 43.5 | QP | 3 |
| 216-960 | 200 | 46.0 | QP | 3 |
| 960-1000 | 500 | 54.0 | QP | 3 |
| Above 1000 | 500 | 54.0 | AV | 3 |

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 52.8 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

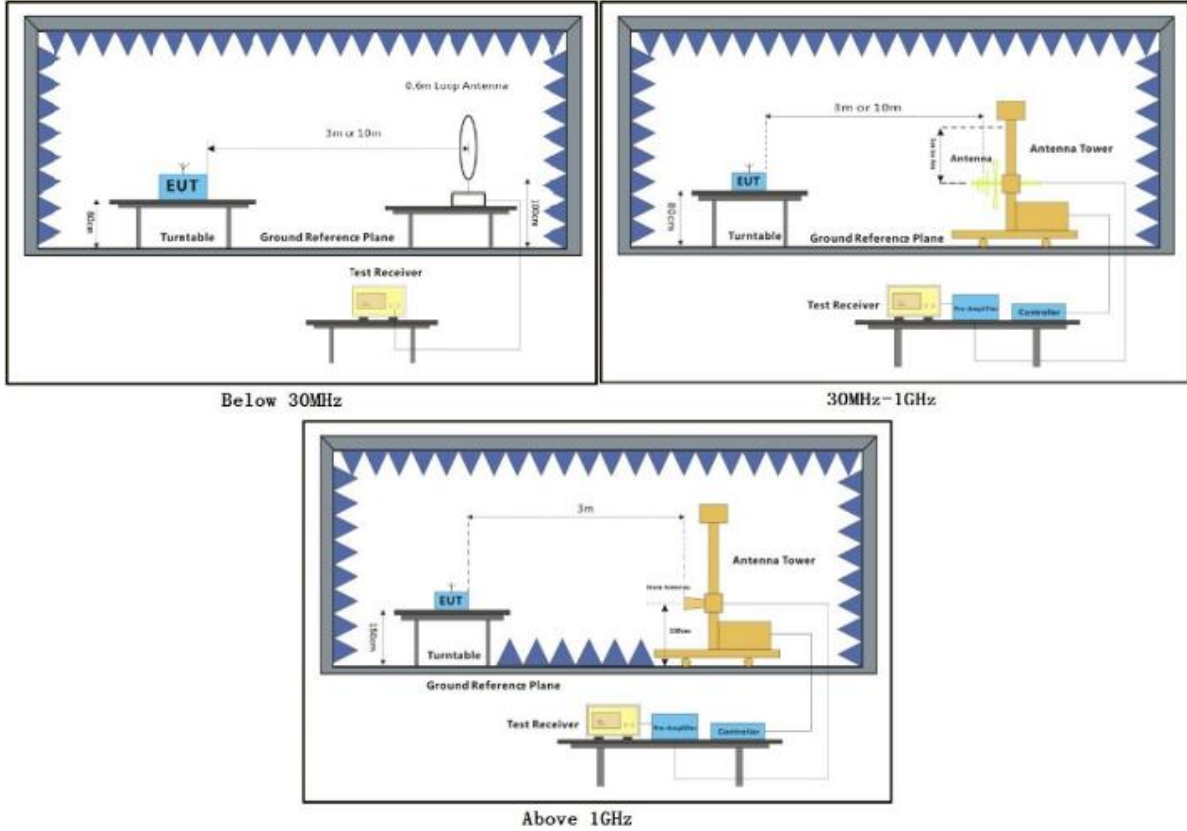
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 00 | TX mode_Keep the EUT in transmitting with modulation mode. |



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7.4.3 Test Setup Diagram



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7.4.4 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) For emission below 1GHz, 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 25GHz, the disturbance above 18GHz and 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.
- 4) 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.

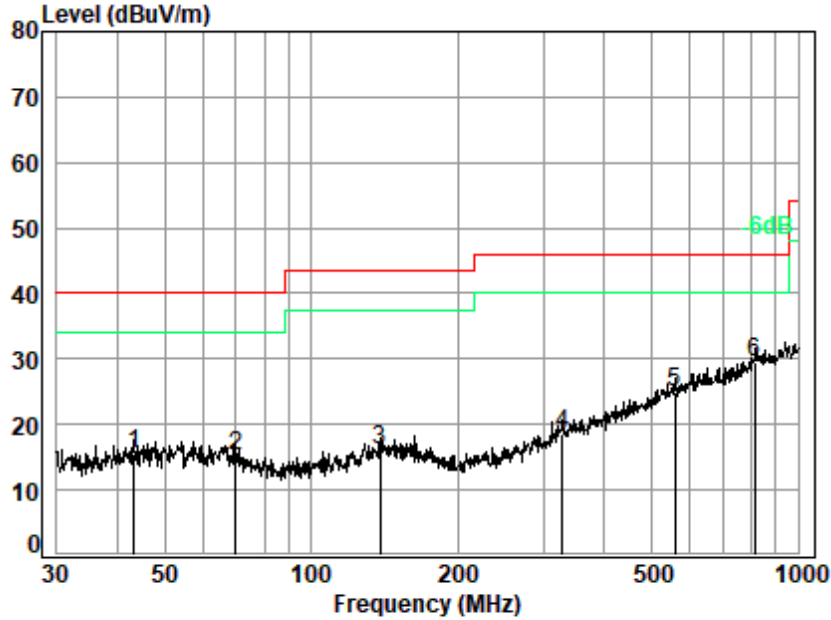


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Below 1GHz

Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00182AT
Mode : 00

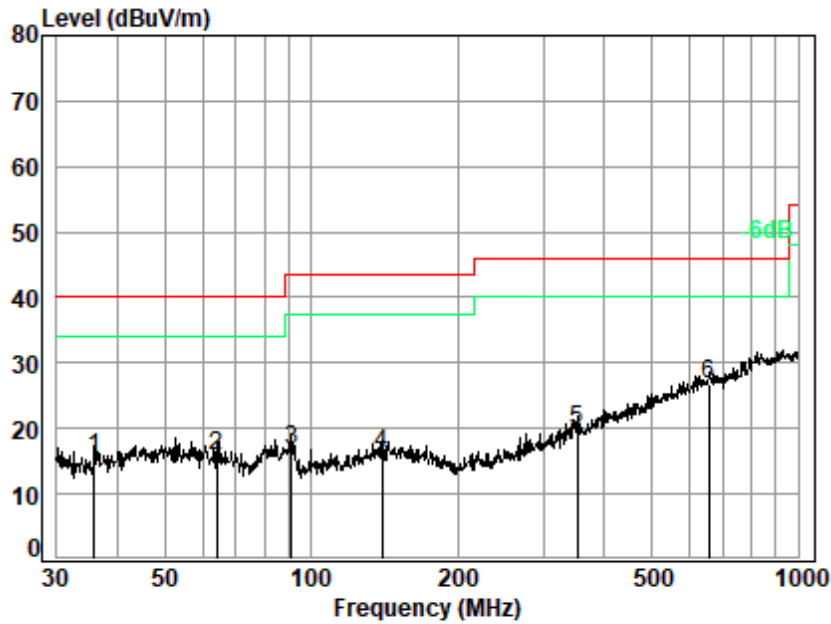
| | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|-------|--------|--------|-------|--------|--------|--------|--------|
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 0.21 | 17.24 | 24.93 | 23.00 | 15.52 | 40.00 | -24.48 | QP |
| 2 | 0.29 | 15.90 | 24.83 | 23.80 | 15.16 | 40.00 | -24.84 | QP |
| 3 | 0.91 | 17.31 | 25.53 | 23.30 | 15.99 | 43.50 | -27.51 | QP |
| 4 | 1.29 | 19.45 | 25.62 | 23.52 | 18.64 | 46.00 | -27.36 | QP |
| 5 | 1.86 | 23.92 | 25.70 | 24.95 | 25.03 | 46.00 | -20.97 | QP |
| 6 p | 2.76 | 27.54 | 25.67 | 24.87 | 29.50 | 46.00 | -16.50 | QP |



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Test Mode: 00; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00182AT
 Mode : 00

| | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|-------|--------|--------|-------|--------|--------|--------|--------|
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 0.19 | 15.85 | 24.96 | 24.30 | 15.38 | 40.00 | -24.62 | QP |
| 2 | 0.25 | 16.62 | 24.85 | 23.83 | 15.85 | 40.00 | -24.15 | QP |
| 3 | 0.69 | 13.73 | 25.21 | 27.53 | 16.74 | 43.50 | -26.76 | QP |
| 4 | 0.91 | 17.43 | 25.53 | 23.41 | 16.22 | 43.50 | -27.28 | QP |
| 5 | 1.51 | 19.78 | 25.63 | 24.12 | 19.78 | 46.00 | -26.22 | QP |
| 6 p | 2.00 | 25.30 | 25.70 | 25.12 | 26.72 | 46.00 | -19.28 | QP |

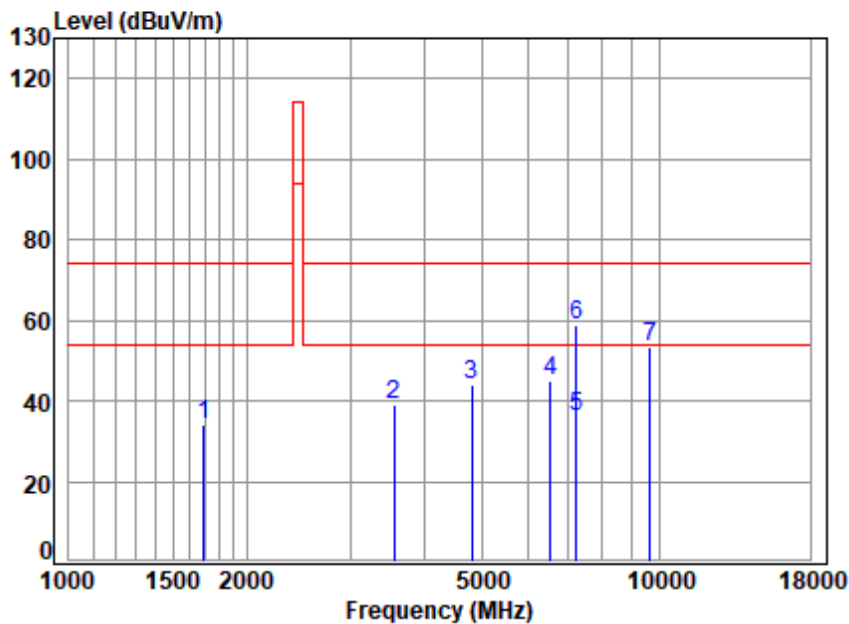


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Above 1GHz

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00182AT
 Mode : 2410 TX RSE

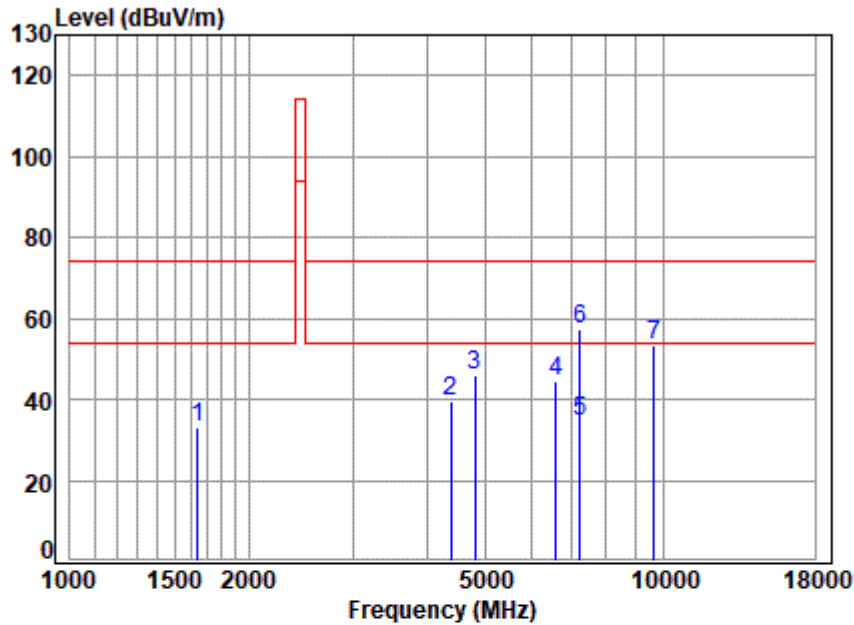
| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark |
|-----|---------|------------|------------|---------------|------------|-------------|------------|----------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1692.23 | 4.18 | 24.99 | 52.96 | 57.68 | 33.89 | 74.00 | -40.11 peak |
| 2 | 3556.84 | 7.05 | 28.80 | 52.92 | 56.18 | 39.11 | 74.00 | -34.89 peak |
| 3 | 4820.00 | 8.01 | 30.98 | 53.05 | 58.12 | 44.06 | 74.00 | -29.94 peak |
| 4 | 6545.26 | 7.75 | 34.71 | 53.19 | 55.68 | 44.95 | 74.00 | -29.05 Peak |
| 5 a | 7230.00 | 8.30 | 36.08 | 53.52 | 45.15 | 36.01 | 54.00 | -17.99 Average |
| 6 p | 7230.00 | 8.30 | 36.08 | 53.52 | 68.07 | 58.93 | 74.00 | -15.07 peak |
| 7 | 9640.00 | 11.38 | 37.60 | 53.55 | 57.77 | 53.20 | 74.00 | -20.80 peak |



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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00182AT
 Mode : 2410 TX RSE

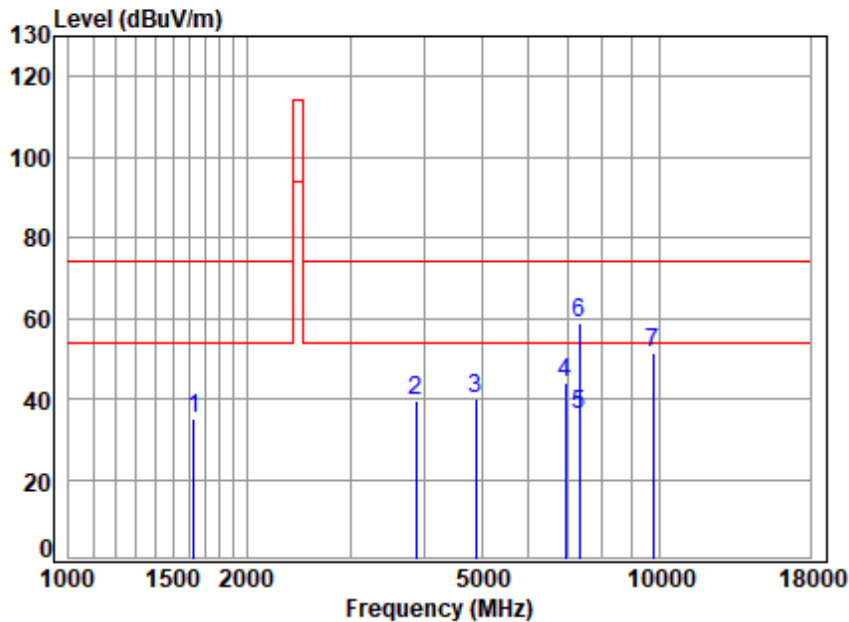
| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over | Remark |
|-----|---------|------------|------------|---------------|------------|--------|--------|--------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1644.02 | 4.08 | 24.89 | 52.93 | 57.19 | 33.23 | 74.00 | -40.77 | peak |
| 2 | 4379.70 | 7.47 | 30.04 | 52.92 | 55.01 | 39.60 | 74.00 | -34.40 | peak |
| 3 | 4820.00 | 8.01 | 30.98 | 53.05 | 60.18 | 46.12 | 74.00 | -27.88 | peak |
| 4 | 6583.21 | 7.78 | 34.81 | 53.22 | 55.24 | 44.61 | 74.00 | -29.39 | Peak |
| 5 a | 7230.00 | 8.30 | 36.08 | 53.52 | 43.74 | 34.60 | 54.00 | -19.40 | Average |
| 6 p | 7230.00 | 8.30 | 36.08 | 53.52 | 66.66 | 57.52 | 74.00 | -16.48 | peak |
| 7 | 9640.00 | 11.38 | 37.60 | 53.55 | 57.82 | 53.25 | 74.00 | -20.75 | peak |



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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00182AT
 Mode : 2442 TX RSE

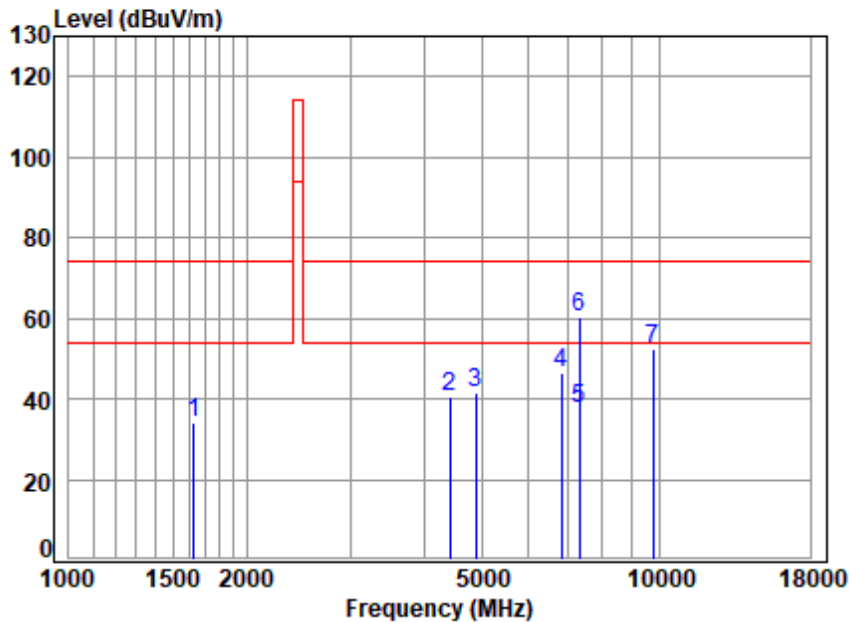
| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark |
|-----|---------|------------|------------|---------------|------------|-------------|------------|----------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1629.83 | 4.05 | 24.86 | 52.92 | 58.99 | 34.98 | 74.00 | -39.02 peak |
| 2 | 3867.83 | 7.36 | 29.30 | 52.84 | 55.84 | 39.66 | 74.00 | -34.34 peak |
| 3 | 4884.00 | 8.12 | 31.13 | 53.07 | 53.99 | 40.17 | 74.00 | -33.83 peak |
| 4 | 6934.78 | 8.13 | 35.65 | 53.46 | 53.87 | 44.19 | 74.00 | -29.81 peak |
| 5 a | 7326.00 | 8.35 | 36.20 | 53.53 | 45.10 | 36.12 | 54.00 | -17.88 Average |
| 6 p | 7326.00 | 8.35 | 36.20 | 53.53 | 68.02 | 59.04 | 74.00 | -14.96 peak |
| 7 | 9768.00 | 11.29 | 37.89 | 53.42 | 55.88 | 51.64 | 74.00 | -22.36 peak |



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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00182AT
 Mode : 2442 TX RSE

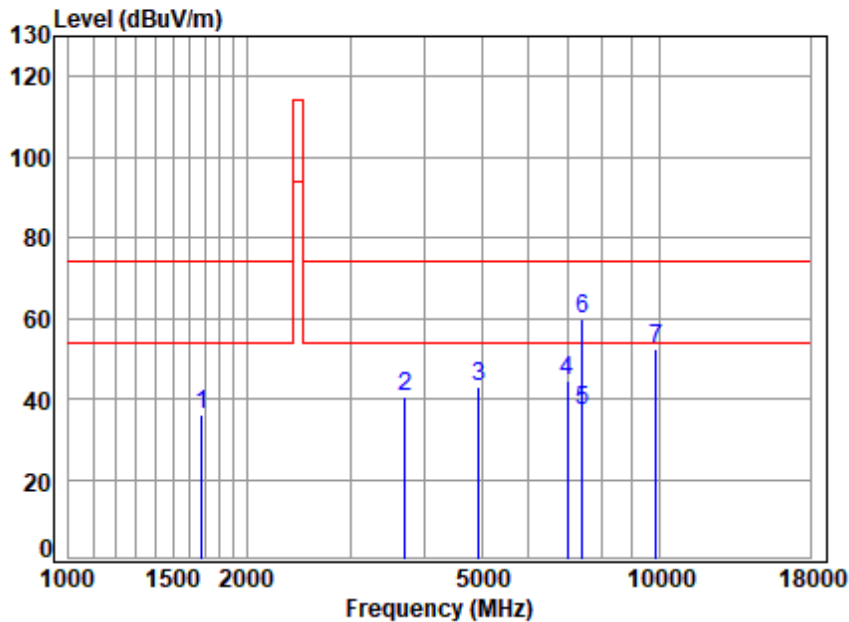
| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark |
|-----|---------|------------|------------|---------------|------------|-------------|------------|----------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1629.83 | 4.05 | 24.86 | 52.92 | 58.18 | 34.17 | 74.00 | -39.83 peak |
| 2 | 4417.84 | 7.47 | 30.09 | 52.93 | 55.69 | 40.32 | 74.00 | -33.68 peak |
| 3 | 4884.00 | 8.12 | 31.13 | 53.07 | 55.34 | 41.52 | 74.00 | -32.48 peak |
| 4 | 6835.28 | 8.03 | 35.41 | 53.39 | 56.19 | 46.24 | 74.00 | -27.76 peak |
| 5 a | 7326.00 | 8.35 | 36.20 | 53.53 | 46.44 | 37.46 | 54.00 | -16.54 Average |
| 6 p | 7326.00 | 8.35 | 36.20 | 53.53 | 69.36 | 60.38 | 74.00 | -13.62 peak |
| 7 | 9768.00 | 11.29 | 37.89 | 53.42 | 56.41 | 52.17 | 74.00 | -21.83 peak |



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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00182AT
 Mode : 2473 TX RSE

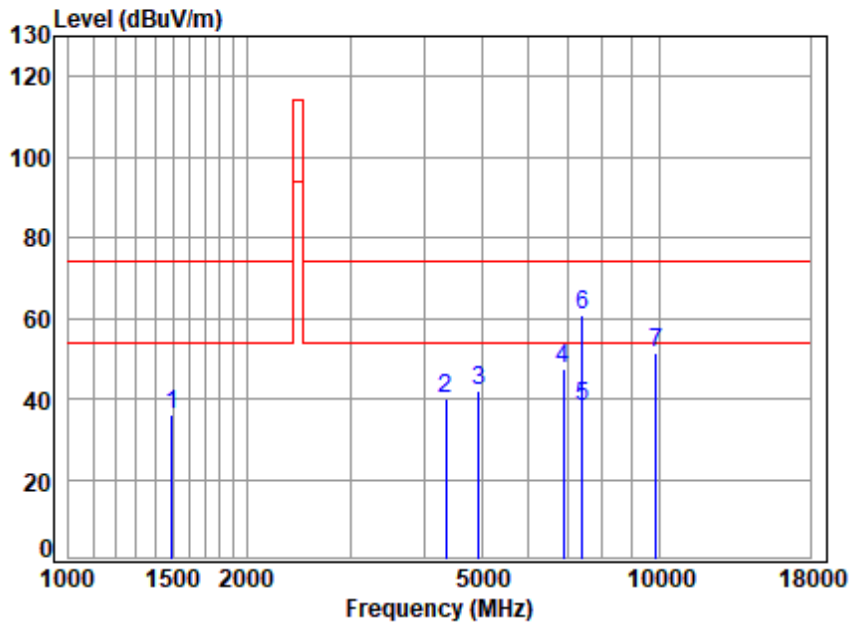
| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark |
|-----|---------|------------|------------|---------------|------------|-------------|------------|----------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1677.62 | 4.15 | 24.96 | 52.95 | 59.96 | 36.12 | 74.00 | -37.88 peak |
| 2 | 3714.44 | 7.21 | 29.06 | 52.88 | 57.06 | 40.45 | 74.00 | -33.55 peak |
| 3 | 4946.00 | 8.21 | 31.28 | 53.09 | 56.54 | 42.94 | 74.00 | -31.06 peak |
| 4 | 6974.98 | 8.17 | 35.74 | 53.48 | 54.21 | 44.64 | 74.00 | -29.36 peak |
| 5 a | 7419.00 | 8.39 | 36.31 | 53.54 | 45.67 | 36.83 | 54.00 | -17.17 Average |
| 6 p | 7419.00 | 8.39 | 36.31 | 53.54 | 68.59 | 59.75 | 74.00 | -14.25 peak |
| 7 | 9892.00 | 11.20 | 38.16 | 53.30 | 56.49 | 52.55 | 74.00 | -21.45 peak |



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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00182AT
 Mode : 2473 TX RSE

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark |
|-----|---------|------------|------------|---------------|------------|-------------|------------|----------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1494.46 | 3.76 | 24.49 | 52.85 | 60.57 | 35.97 | 74.00 | -38.03 peak |
| 2 | 4354.45 | 7.48 | 30.00 | 52.91 | 55.39 | 39.96 | 74.00 | -34.04 peak |
| 3 | 4946.00 | 8.21 | 31.28 | 53.09 | 55.50 | 41.90 | 74.00 | -32.10 peak |
| 4 | 6874.91 | 8.07 | 35.51 | 53.42 | 57.41 | 47.57 | 74.00 | -26.43 peak |
| 5 a | 7419.00 | 8.39 | 36.31 | 53.54 | 46.83 | 37.99 | 54.00 | -16.01 Average |
| 6 p | 7419.00 | 8.39 | 36.31 | 53.54 | 69.75 | 60.91 | 74.00 | -13.09 peak |
| 7 | 9892.00 | 11.20 | 38.16 | 53.30 | 55.33 | 51.39 | 74.00 | -22.61 peak |



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2205000182AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2205000182AT

- End of the Report -



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