

TEST REPORT

Application No.: SZCR2306001861ME
Applicant: NormaTec Industries LP
Address of Applicant: 480 Pleasant St. Ste A200 Watertown Massachusetts 02472 United States
Manufacturer: NormaTec Industries LP
Address of Manufacturer: 480 Pleasant St. Ste A200 Watertown Massachusetts 02472 United States
Factory: Ryder Electronics (XinFeng) Ltd.
Address of Factory: East Shuidong Avenue, Industrial Park, Xinfeng County, Ganzhou City, Jiangxi Province, China 341600

Equipment Under Test (EUT):

EUT Name: Normatec Elite
Model No.: JPN11-SH, JPN11-ST, JPN11-TL, JPN11-PH, JPN11-PS, JPN11-PT ♣
♣ Please refer to section 2 of this report which indicates which model was actual tested and which were electrically identical.

Trade Mark:



FCC ID: 2AY3Y-NTEA
Standard(s) : 47 CFR Part 15, Subpart C 15.231
Date of Receipt: 2023-08-30
Date of Test: 2023-11-02 to 2023-12-16
Date of Issue: 2023-12-19

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

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

Keny Xu
EMC Laboratory Manager



| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2023-12-19 | | Original |
| | | | | |
| | | | | |

| | | | |
|---------------------------------|--|-------------------------|--|
| Authorized for issue by: | | | |
| | | | |
| | | Leo Li/Project Engineer | |
| | | | |
| | | Eric Fu/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 15.231 | 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 15.231 | ANSI C63.10 (2013) Section 6.9 | 47 CFR Part 15, Subpart C 15.231(c) | Pass |
| Radiated Emissions below 1GHz | | ANSI C63.10 (2013) Section 6.4&6.5 | 47 CFR Part 15C Section 15.231(e) and 15.209 | Pass |
| Dwell Time (15.231(a)) | | ANSI C63.10 (2013) Section 7.5 | 47 CFR Part 15, Subpart C 15.231(a) | Pass |
| Field Strength of the Fundamental Signal (15.231(e)) | | ANSI C63.10 (2013) Section 6.5 | 47 CFR Part 15, Subpart C 15.231(e) | Pass |
| Radiated Emissions above 1GHz | | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15C Section 15.231(e) and 15.209 | Pass |

| Emission Part | | | | |
|---|----------------------------------|--------------------------------|----------------------------------|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at AC Mains Power Port (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.231 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass |

Declaration of EUT Family Grouping:

Model No.: JPN11-SH, JPN11-ST, JPN11-TL, JPN11-PH, JPN11-PS, JPN11-PT

Only the model JPN11-ST was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with difference on Model No. and the leg sizes.

Remark: The product comes with different Air compressor, Solenoid Valves, adapters, pressure sensor and batteries, all the Configurations have been pre-tested, and only record the worst case in the report, here are the different configurations:



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| Component | Manufacturer | Type | Specification |
|-----------------------------------|---|--------------------|---|
| Internal battery (BPI 21700 2S1P) | Shenzhen BetterPower Battery Co., Ltd. | BPI 21700 2S1P | 7.2V, 5000mAh |
| Internal battery (J1025) | Hixon (Shenzhen) Technology Limited. | J1025 | 7.38V,4800mAh |
| Solenoid Valve | Shenzhen Wei Shengtai Electronics Co., Ltd | WQF6-12A | DC12V |
| | Dongguan Jing Bofang Precision Electronics Co., LTD | JQF1320-12A | DC12V |
| Air compressor | DONG GUAN ZHEN TIAN PRECISION ELECTRONIC CO.,LTD | ZTQB12095016 | DC12V Flow rate: ≥6L/min, Pressure: >90Kpa |
| | Dongguan Jing Bofang Precision Electronics Co., LTD | JQB095-12B | DC12V Flow rate: ≥6L/min, Pressure: >80Kpa |
| Power adapter | Guangdong Shanmusen Technology Co.,Ltd | SMS-01120400-S68 | Input:100-240Vac,1.5A,50-60Hz; Output:12V,4A |
| | GUANGDONG KEERDA ELECTRONICS CO., LTD | DZ048CHL120400 H | Input:100-240Vac,1.5A,50-60Hz; Output:12V,4A |
| Pressure sensor | Suzhou Novosense Microelectronics Co., Ltd. | MSPDS5F035DT2 4 | Operating pressure range:3-3.6V Operating pressure range:0-35KPA |
| | Shenzhen Hope Microelectronics Co,Ltd. | HCS40D | Operating pressure range: 2.7-5.5V Operating pressure range: 0-40KPA |

This product comes in two different combinations.

Combination 1: ZHEN TIAN Air compressor+ Wei Shengtai Valve+BPI Battery+ Novosense Pressure sensor+ Shanmusen Adapter

Combination 2: Jing Bofang Air compressor+ Jing Bofang Valve+ Hixon Battery+ Hope Pressure sensor+ KEERDA Adapter

Only the Combination 1 was tested fully, and the Combination 2 was performed the Conducted Emissions at AC Power Line (150kHz-30MHz) and Radiated Spurious Emissions Below 1GHz test for discrepancy.



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4 General Information

4.1 Details of E.U.T.

| | |
|---------------------|--|
| Power supply: | BPI Lithium Ion Battery: DC 7.2V 5000mAh rechargeable battery Hixon Lithium Ion Battery: DC 7.38V 4800mAh rechargeable battery DC 12V from adapter input AC 120V/60Hz Adapter 1 Model: DZ048CHL120400H Input:100-240V~50-60Hz 1.5A Output:12.0V = 4.0A 48.0W Adapter 2 Model: SMS-01120400-S68 Input:100-240V ~ 50-60Hz 1.5A MAX Output:12.0V = 4.0A 48.0W MAX |
| Cable(s): | Adapter 1 DC cable: 310cm unshielded Adapter 2 DC cable: 300cm unshielded |
| Operation Frequency | 433.92MHz |
| Channel Numbers: | 1 |
| Modulation Type: | GFSK |
| Antenna Type: | Helical Antenna |
| Antenna Gain: | -9.04dBi |

Remark: The information in this section is provided by the applicant or manufacturer, SGS 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. |
|-------------|--------------|----------------------|------------------|
| RF cable | SGS | N/A(cable loss:-2dB) | REF. No.SEL001A0 |

4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|--------------------------------------|
| Conducted Emissions at AC Mains Power Port (150kHz-30MHz) | ± 3.1dB |
| 20dB Bandwidth | 3% |
| Radiated Emissions below 1GHz | ± 6.0dB |
| Dwell Time (15.231(a)) | 3% |
| Field Strength of the Fundamental Signal (15.231(e)) | ± 6.0dB |
| Radiated Emissions above 1GHz | ± 4.6dB (1-18GHz);± 4.8dB (18-40GHz) |

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.



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

| Conducted Emissions at AC Mains Power Port (150kHz-30MHz) | | | | | |
|---|------------------|------------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Shielding Room | ZhongYu Electron | GB-88 | SEM001-06 | 2022-05-14 | 2025-05-13 |
| EMI Test Receiver | Rohde&Schwarz | ESCI | SEM004-02 | 2023-03-20 | 2024-03-19 |
| Measurement Software | AUDIX | e3 V8.2014-6-27a | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2023-07-07 | 2024-07-06 |
| LISN | Rohde&Schwarz | ENV216 | SEM007-01 | 2023-09-19 | 2024-09-18 |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2023-03-20 | 2024-03-19 |

| 20dB Bandwidth | | | | | |
|---|------------------------------|---------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| DC Power Supply | Chroma | 62012P-80-60 | SEM011-11 | 2023-10-19 | 2024-10-18 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2023-03-21 | 2024-03-20 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2023-03-31 | 2024-03-30 |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2023-03-21 | 2024-03-20 |

| Radiated Emissions below 1GHz | | | | | |
|-------------------------------|----------------------|-----------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2021-11-30 | 2023-11-29 |
| | | | | 2023-11-29 | 2024-11-28 |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2023-06-19 | 2026-06-18 |
| MXE EMI Receiver | Agilent Technologies | N9038A | SEM004-15 | 2023-10-19 | 2024-10-18 |
| BiConiLog Antenna | ETS-LINDGREN | 3142C | SEM003-01 | 2023-09-16 | 2025-09-15 |
| Pre-Amplifier | Agilent Technologies | 8447D | SEM005-01 | 2023-03-20 | 2024-03-19 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2023-07-07 | 2024-07-06 |



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| Dwell Time (15.231(a)) | | | | | |
|---|------------------------------|---------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| DC Power Supply | Chroma | 62012P-80-60 | SEM011-11 | 2023-10-19 | 2024-10-18 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2023-03-21 | 2024-03-20 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2023-03-31 | 2024-03-30 |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2023-03-21 | 2024-03-20 |

| Field Strength of the Fundamental Signal (15.231(e)) | | | | | |
|--|----------------------|-----------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2023-06-19 | 2026-06-18 |
| MXE EMI Receiver | Agilent Technologies | N9038A | SEM004-15 | 2023-10-19 | 2024-10-18 |
| BiConiLog Antenna | ETS-LINDGREN | 3142C | SEM003-01 | 2023-09-16 | 2025-09-15 |
| Pre-Amplifier | Agilent Technologies | 8447D | SEM005-01 | 2023-03-20 | 2024-03-19 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2023-07-07 | 2024-07-06 |



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| Radiated Emissions above 1GHz | | | | | |
|-------------------------------|-----------------|-----------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| 3m Fully-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2023-04-01 | 2026-03-31 |
| Signal Analyzer | Rohde & Schwarz | FSV40 | SEM008-04 | 2023-03-20 | 2024-03-19 |
| Horn Antenna | Rohde&Schwarz | HF907 | SEM003-07 | 2023-07-23 | 2025-07-22 |
| Microwave system amplifier | Agilent | 83017A | SEM005-25 | 2023-09-19 | 2024-09-18 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2023-07-07 | 2024-07-06 |

| General used equipment | | | | | |
|---------------------------------|---|-----------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-32 | 2023-07-28 | 2024-07-27 |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-33 | 2023-07-28 | 2024-07-27 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2023-03-23 | 2024-03-22 |



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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

6.1.2 Conclusion

Standard 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -9.04 dBi

Antenna location: Refer to internal photo.



7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.231(c)

Test Method: ANSI C63.10 (2013) Section 6.9

Limit:

| Frequency range(MHz) | Limit |
|----------------------|---|
| 70-900 | No wider than 0.25% of the center frequency |
| Above 900 | No wider than 0.5% of the center frequency |

Remark: For this device, the limit is $433.92\text{MHz} \times 0.25\% = 1.0848\text{MHz}$

7.1.1 E.U.T. Operation

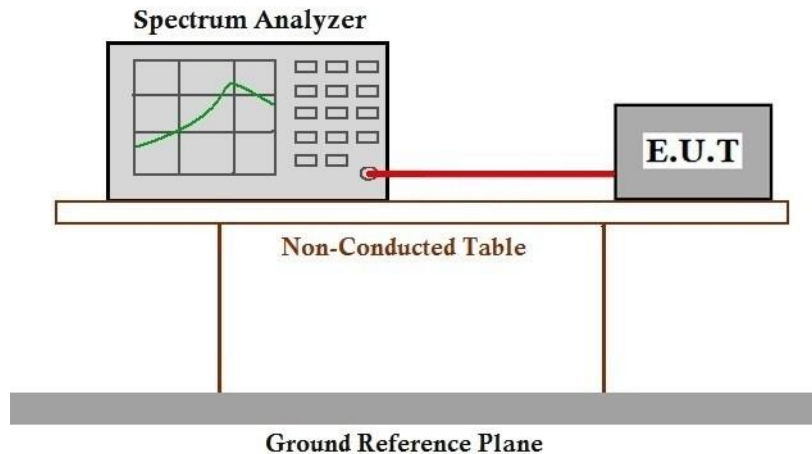
Operating Environment:

Temperature: 25.0 °C Humidity: 42.2 % RH Atmospheric Pressure: 1000 mbar

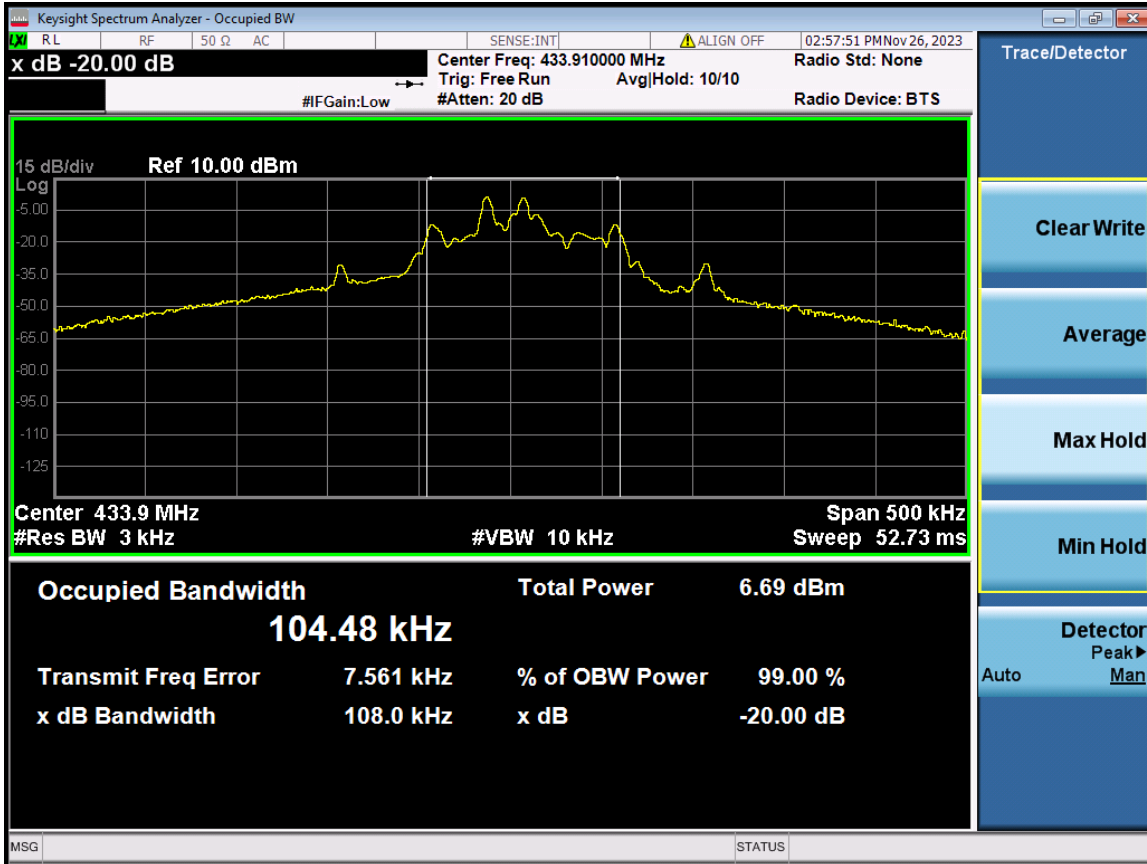
7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 04 | TX mode_Keep the EUT in continuously transmitting mode. |
| Pre-scan | 05 | Charge+TX mode_Keep the EUT in continuously transmitting mode. |

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data



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7.2 Radiated Emissions below 1GHz

Test Requirement 47 CFR Part 15C Section 15.231(e) and 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 |
| 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: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

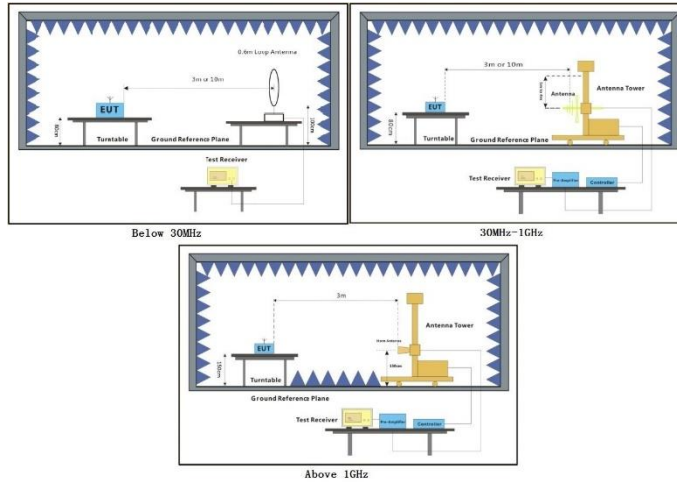
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Pre-scan | 04 | TX mode_Keep the EUT in continuously transmitting mode. |
| Final test | 05 | Charge+TX mode_Keep the EUT in continuously transmitting mode. |



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7.2.3 Test Setup Diagram



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. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

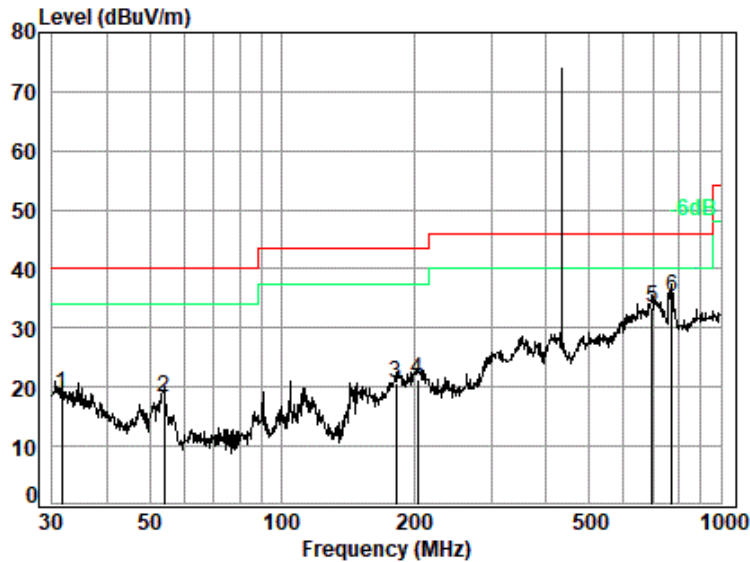
Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows: Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Pre-amplifier Factor
- 2) Scan from 9kHz to 1GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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Test Mode: 05; Polarity: Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01861ME/01862ME
 Test Mode: 05
 : adapter 1

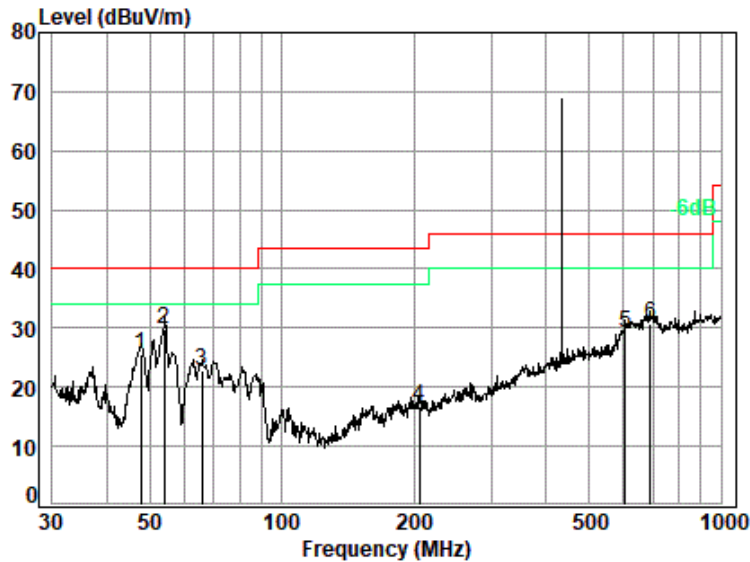
| | Ant Freq | Cable Factor | Preamp Loss | Read Level | Limit Level | Over Limit | Remark |
|-----|----------|--------------|-------------|------------|-------------|------------|-----------|
| | MHz | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 31.510 | 20.50 | 0.66 | 27.80 | 25.65 | 19.00 | -20.99 QP |
| 2 | 54.071 | 12.12 | 0.87 | 27.74 | 32.96 | 18.21 | -21.79 QP |
| 3 | 181.920 | 14.15 | 1.63 | 27.32 | 32.08 | 20.54 | -22.96 QP |
| 4 | 203.523 | 14.42 | 1.75 | 27.24 | 32.32 | 21.25 | -22.25 QP |
| 5 | 696.857 | 25.87 | 3.50 | 27.93 | 32.01 | 33.45 | -12.55 QP |
| 6 q | 774.158 | 26.81 | 3.75 | 27.69 | 32.55 | 35.42 | -10.58 QP |



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Test Mode: 05; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01861ME/01862ME
 Test Mode: 05
 : adapter 1

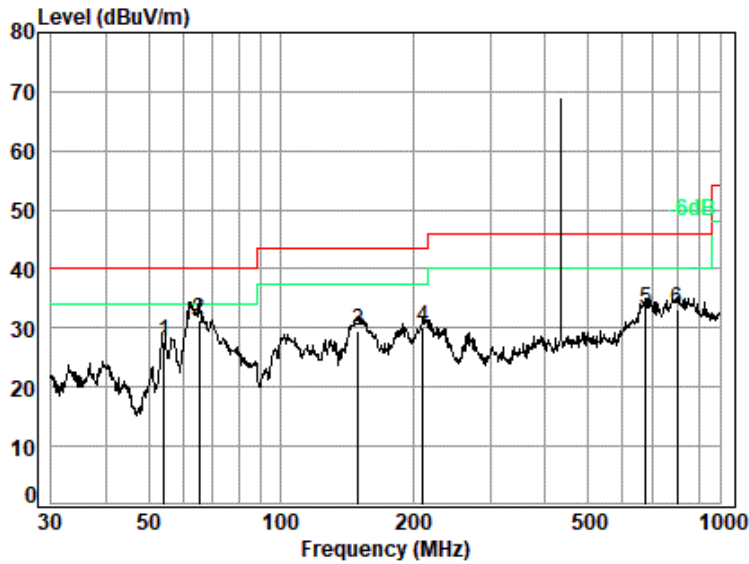
| | Ant Freq | Cable Factor | Preamp Loss | Read Level | Limit Level | Over Line | Limit | Over | Remark |
|-----|----------|--------------|-------------|------------|-------------|-----------|--------|--------|--------|
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 47.826 | 13.36 | 0.81 | 27.75 | 38.98 | 25.40 | 40.00 | -14.60 | QP |
| 2 q | 54.071 | 12.12 | 0.87 | 27.74 | 44.66 | 29.91 | 40.00 | -10.09 | QP |
| 3 | 65.803 | 10.95 | 0.96 | 27.70 | 38.55 | 22.76 | 40.00 | -17.24 | QP |
| 4 | 205.675 | 14.59 | 1.75 | 27.23 | 27.59 | 16.70 | 43.50 | -26.80 | QP |
| 5 | 605.659 | 24.52 | 3.23 | 28.21 | 29.67 | 29.21 | 46.00 | -16.79 | QP |
| 6 | 691.987 | 25.76 | 3.49 | 27.94 | 29.41 | 30.72 | 46.00 | -15.28 | QP |



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Test Mode: 05; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01861ME/01862ME
 Test Mode: 05
 : adapter 2

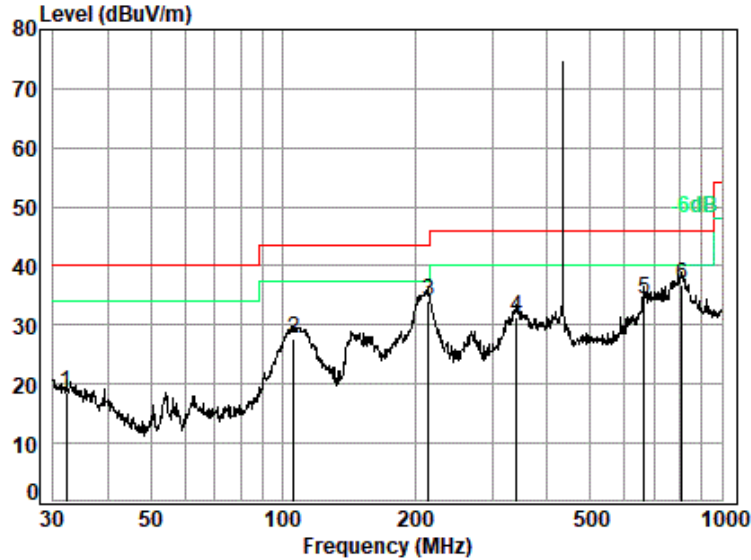
| | Ant | Cable | Preamp | Read | Limit | Over | | |
|-----|---------|--------|--------|--------|-------|--------|--------|--------------|
| | Freq | Factor | Loss | Factor | Level | Level | Line | Limit Remark |
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 54.261 | 12.09 | 0.87 | 27.74 | 42.38 | 27.60 | 40.00 | -12.40 QP |
| 2 q | 65.114 | 11.01 | 0.96 | 27.71 | 47.05 | 31.31 | 40.00 | -8.69 QP |
| 3 | 150.011 | 13.04 | 1.46 | 27.43 | 42.57 | 29.64 | 43.50 | -13.86 QP |
| 4 | 210.786 | 14.76 | 1.78 | 27.21 | 40.72 | 30.05 | 43.50 | -13.45 QP |
| 5 | 677.580 | 25.80 | 3.44 | 27.99 | 31.85 | 33.10 | 46.00 | -12.90 QP |
| 6 | 798.980 | 26.88 | 3.83 | 27.61 | 30.14 | 33.24 | 46.00 | -12.76 QP |



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Test Mode: 05; Polarity: Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01861ME/01862ME
 Test Mode: 05
 : adapter 2

| | Ant | Cable | Preamp | Read | Limit | Over | | |
|-----|---------|--------|--------|--------|-------|--------|--------|--------------|
| | Freq | Factor | Loss | Factor | Level | Level | Line | Limit Remark |
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 32.179 | 20.19 | 0.66 | 27.80 | 25.49 | 18.54 | 40.00 | -21.46 QP |
| 2 | 106.013 | 12.18 | 1.22 | 27.59 | 41.98 | 27.79 | 43.50 | -15.71 QP |
| 3 | 214.514 | 14.78 | 1.79 | 27.20 | 44.68 | 34.05 | 43.50 | -9.45 QP |
| 4 | 340.782 | 19.12 | 2.32 | 27.07 | 37.03 | 31.40 | 46.00 | -14.60 QP |
| 5 | 663.473 | 25.32 | 3.40 | 28.03 | 33.82 | 34.51 | 46.00 | -11.49 QP |
| 6 q | 810.265 | 26.73 | 3.86 | 27.56 | 33.78 | 36.81 | 46.00 | -9.19 QP |



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7.3 Dwell Time (15.231(a))

Test Requirement 47 CFR Part 15, Subpart C 15.231(a)

Test Method: ANSI C63.10 (2013) Section 7.5

Limit:

| Device type | Limit |
|--|--|
| Manually operated transmitter | The switch automatically deactivate the transmitter within not more than 5 seconds of being released |
| Automatically activated transmitter | Cease transmission within 5 seconds after activation |
| Periodic transmissions to determine system integrity of transmitters used in security or safety applications | The total transmission time does not exceed 2 seconds per hour |

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 42.2 % RH Atmospheric Pressure: 1000 mbar



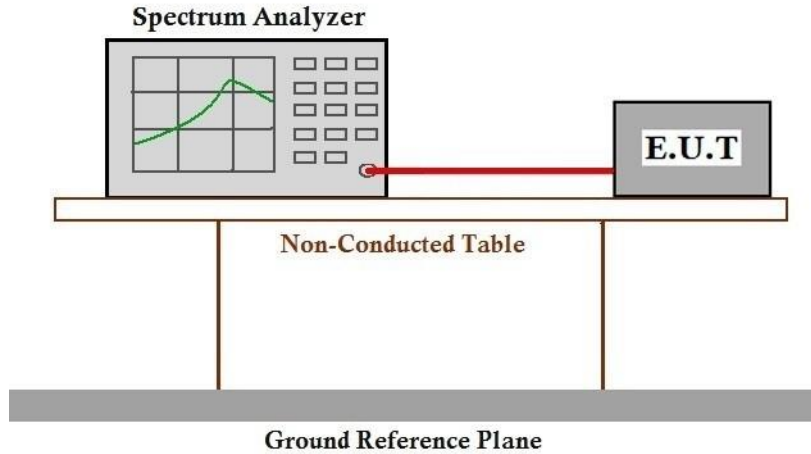
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7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 04 | TX mode_Keep the EUT in continuously transmitting mode. |
| Pre-scan | 05 | Charge+TX mode_Keep the EUT in continuously transmitting mode. |

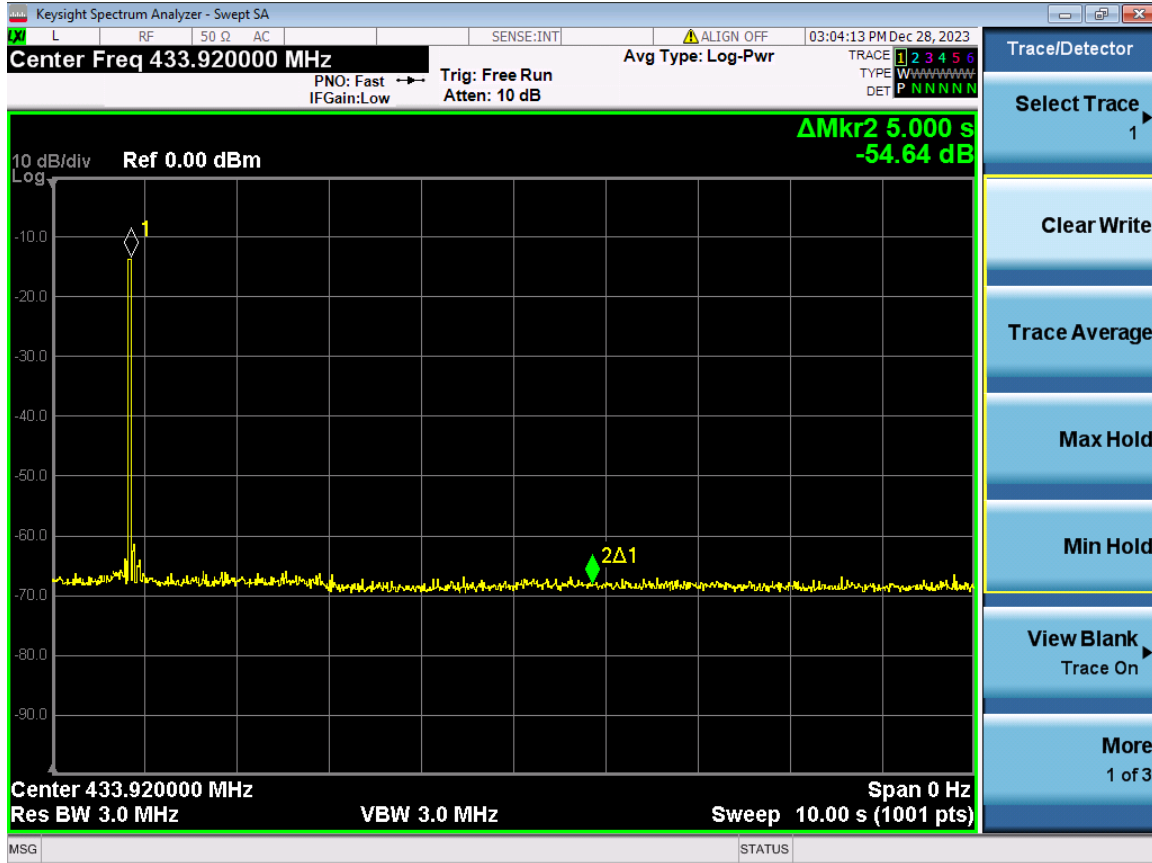
7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data



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7.4 Field Strength of the Fundamental Signal (15.231(e))

Test Requirement 47 CFR Part 15, Subpart C 15.231(e)

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

Measurement Distance: 3m

Limit:

| Fundamental frequency (MHz) | Field strength of fundamental (microvolts/meter) | Field strength of spurious emission (microvolts/meter) |
|-----------------------------|--|--|
| 40.66–40.70 | 1,000 | 100 |
| 70–130 | 500 | 50 |
| 130–174 | 500 to 1,500 ¹ | 50 to 150 ¹ |
| 174–260 | 1,500 | 150 |
| 260–470 | 1,500 to 5,000 ¹ | 150 to 500 ¹ |
| Above 470 | 5,000 | 500 |

Remark: the emission limit is based on measurement instrumentation employing an average detector at a distance of 3 meters. 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.

** linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

For 130-174 MHz: Field Strength (µV/m) = (22.73 x f)-2454.55

For 260-470 MHz: Field Strength (µV/m) = (16.67 x f)-2833.33

The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

The fundamental frequency of the EUT is 433.92 MHz

The limit for average field strength dBuV/m for the fundamental emission= 72.87 dBµV/m

No fundamental is allowed in the restricted bands.

The limit for average field strength dBuV/m for the spurious emission=52.87 dBuV/m. Spurious in the restricted bands must be less than 52.87 dBuV/m or 15.209, whichever limit permits a higher field strength.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 45.8 % RH

Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

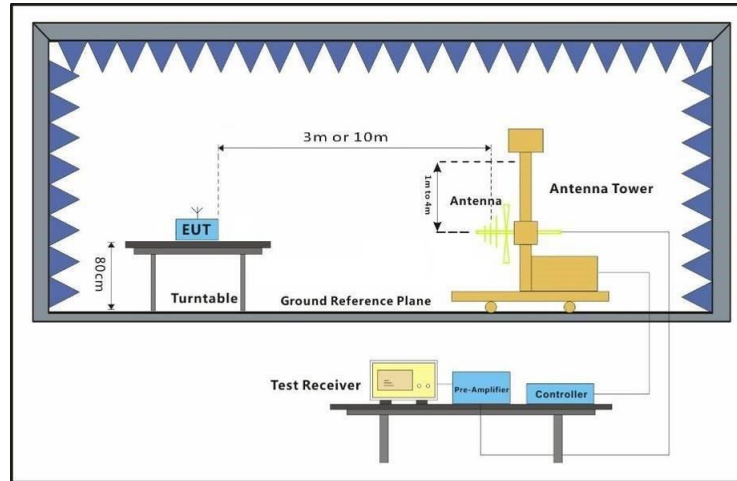
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 04 | TX mode_Keep the EUT in continuously transmitting mode. |
| Pre-scan | 05 | Charge+TX mode_Keep the EUT in continuously transmitting mode. |



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7.4.3 Test Setup Diagram

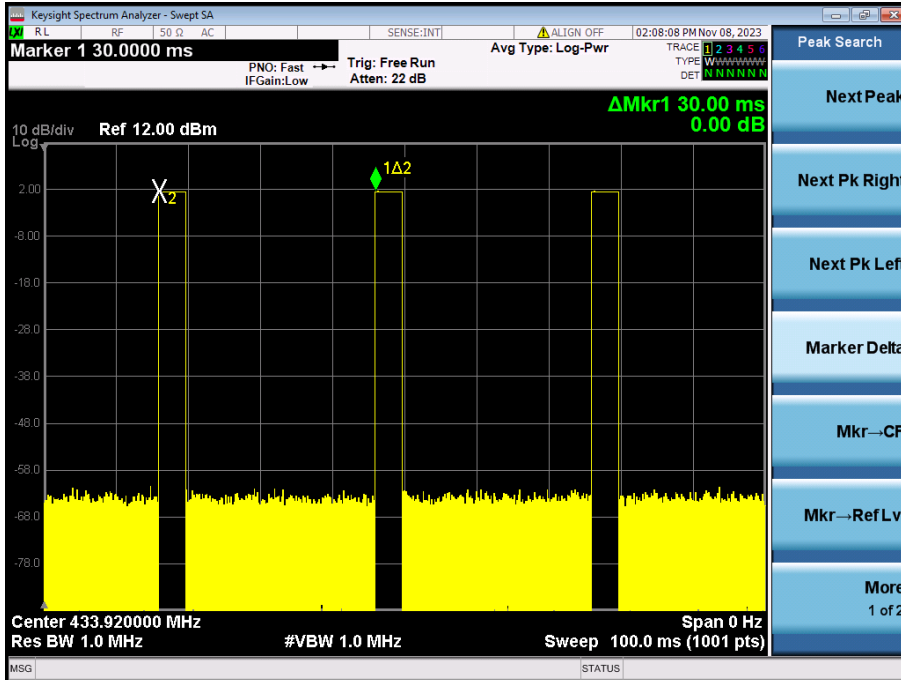
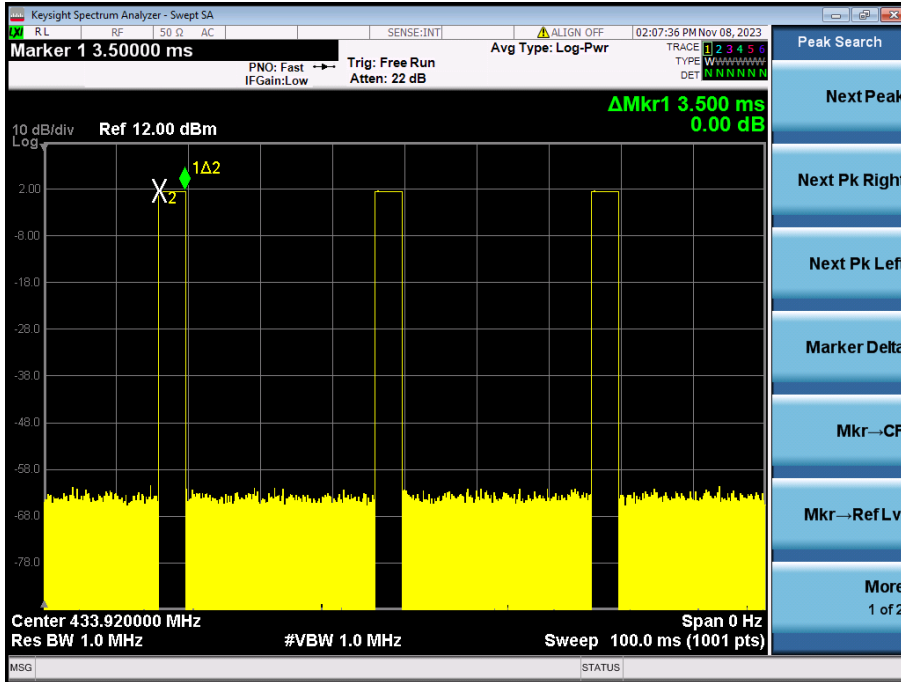


7.4.4 Measurement Procedure and Data

- 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.
- The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

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

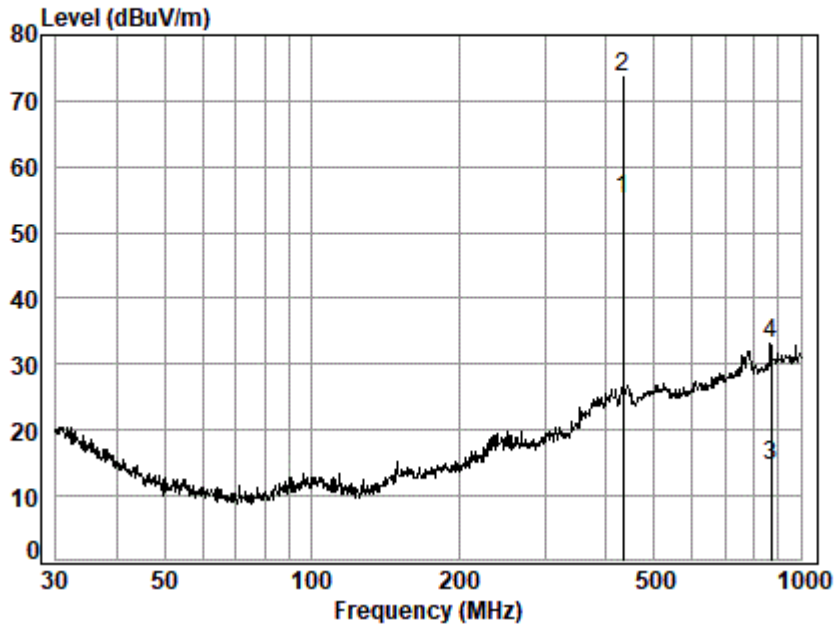




| | |
|------------|---|
| Test data: | Ton time = 3.5ms |
| | T period = 30ms |
| | Duty cycle = T on time / T period = 11.7% |
| | PDCF = 20 log(Duty cycle) = 20 log(11.7%) = -18.6dB |



Test Mode: 04; Polarity: Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01861ME/01862ME
 Test mode: 04

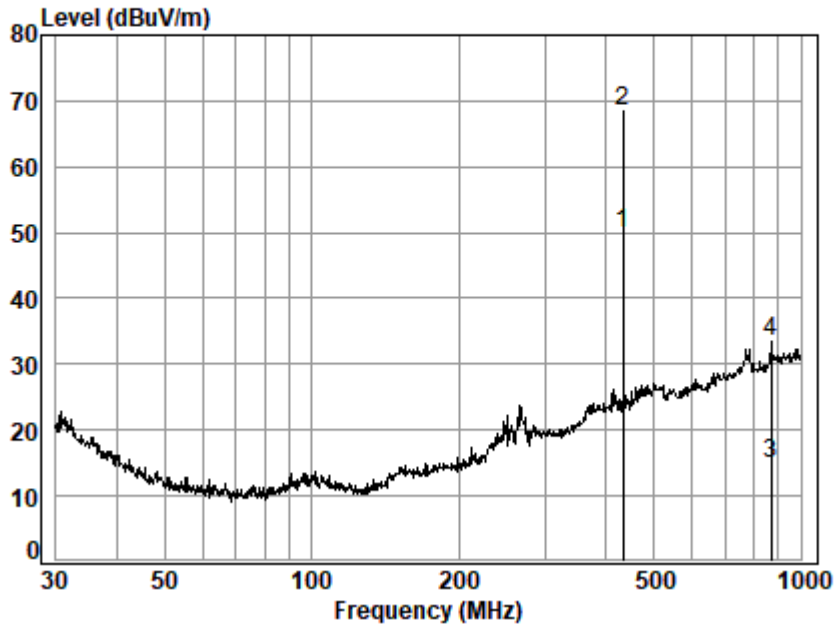
| | Ant Freq | Cable Factor | Preamp Loss | Read Level | Limit Level | Over Limit | Remark |
|-----|----------|--------------|-------------|------------|-------------|------------|----------------|
| | MHz | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 433.92 | 21.02 | 2.35 | 27.49 | 59.08 | 72.87 | -17.91 Average |
| 2 p | 433.92 | 21.02 | 2.35 | 27.49 | 77.68 | 92.87 | -19.31 Peak |
| 3 | 867.84 | 27.65 | 3.48 | 27.28 | 10.71 | 52.87 | -38.31 Average |
| 4 | 867.84 | 27.65 | 3.48 | 27.28 | 29.31 | 72.87 | -39.71 Peak |



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Test Mode: 04; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01861ME/01862ME
 Test mode: 04

| | Ant Freq | Cable Factor | Preamp Loss | Read Level | Limit Level | Over Limit | Remark |
|-----|----------|--------------|-------------|------------|-------------|------------|----------------|
| | MHz | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 433.92 | 21.02 | 2.35 | 27.49 | 53.86 | 72.87 | -23.13 Average |
| 2 p | 433.92 | 21.02 | 2.35 | 27.49 | 72.46 | 92.87 | -24.53 Peak |
| 3 | 867.84 | 27.65 | 3.48 | 27.28 | 11.14 | 52.87 | -37.88 Average |
| 4 | 867.84 | 27.65 | 3.48 | 27.28 | 29.74 | 72.87 | -39.28 Peak |



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7.5 Radiated Emissions above 1GHz

Test Requirement 47 CFR Part 15C Section 15.231(e) and 15.209

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

Measurement Distance: 3m

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.0 °C

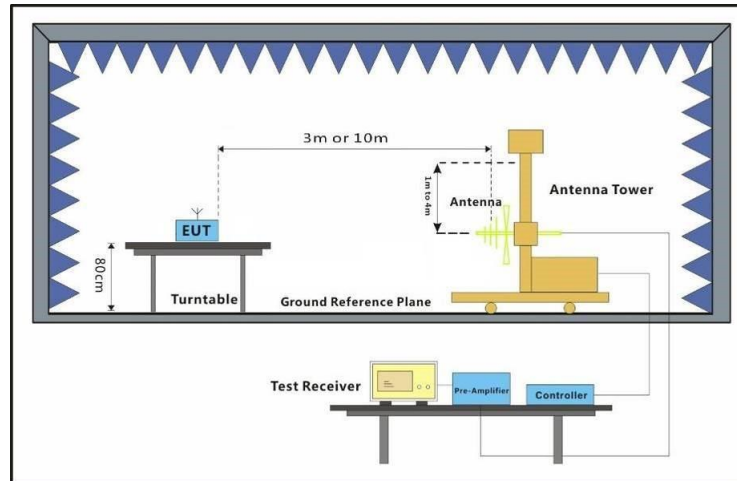
Humidity: 51.2 % RH

Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Pre-scan | 04 | TX mode_Keep the EUT in continuously transmitting mode. |
| Final test | 05 | Charge+TX mode_Keep the EUT in continuously transmitting mode. |

7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark:

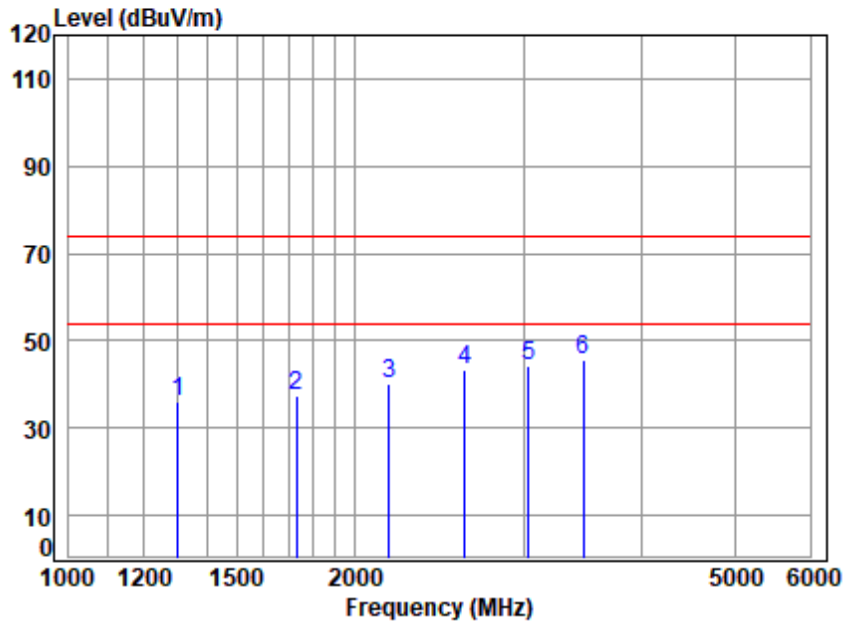
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 2) For frequencies above 1GHz, the field strength limits 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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Test Mode: 05; Polarity: Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01861ME\01862ME
 Mode : 433 RSE TX

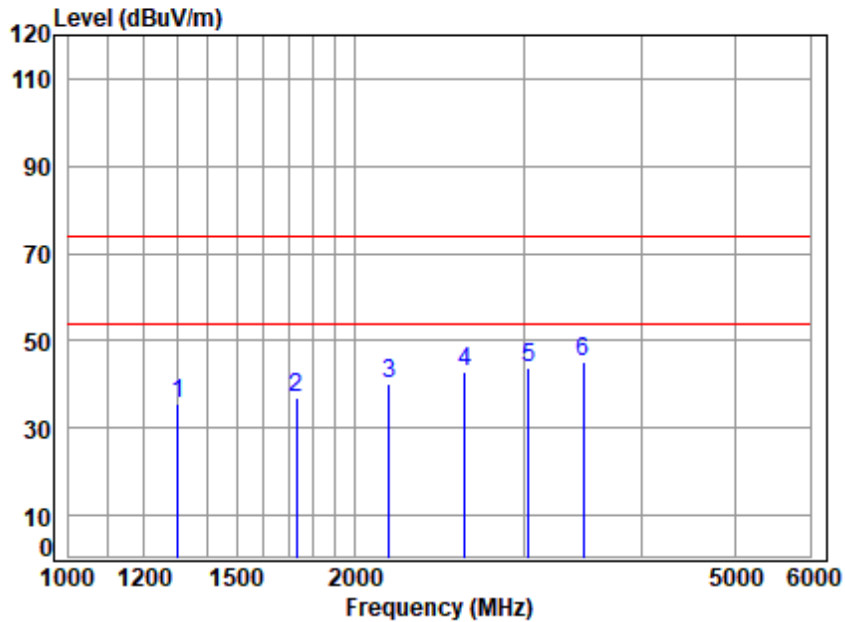
| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|-------------|------------|-------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dB | |
| 1 | 1301.700 | 3.76 | 24.79 | 38.36 | 45.86 | 36.05 | 74.00 | -37.95 Peak |
| 2 | 1735.600 | 4.38 | 26.63 | 38.42 | 44.99 | 37.58 | 74.00 | -36.42 Peak |
| 3 | 2169.500 | 4.86 | 28.04 | 37.99 | 45.14 | 40.05 | 74.00 | -33.95 Peak |
| 4 | 2603.400 | 5.27 | 30.29 | 36.95 | 44.57 | 43.18 | 74.00 | -30.82 Peak |
| 5 | 3037.300 | 5.63 | 30.20 | 36.14 | 44.42 | 44.11 | 74.00 | -29.89 Peak |
| 6 q | 3471.200 | 6.19 | 31.72 | 36.12 | 43.79 | 45.58 | 74.00 | -28.42 Peak |



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Test Mode: 05; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01861ME\01862ME
 Mode : 433 RSE TX

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1301.700 | 3.76 | 24.79 | 38.36 | 45.47 | 35.66 | 74.00 | -38.34 | Peak |
| 2 | 1735.600 | 4.38 | 26.63 | 38.42 | 44.48 | 37.07 | 74.00 | -36.93 | Peak |
| 3 | 2169.500 | 4.86 | 28.04 | 37.99 | 45.39 | 40.30 | 74.00 | -33.70 | Peak |
| 4 | 2603.400 | 5.27 | 30.29 | 36.95 | 44.10 | 42.71 | 74.00 | -31.29 | Peak |
| 5 | 3037.300 | 5.63 | 30.20 | 36.14 | 43.96 | 43.65 | 74.00 | -30.35 | Peak |
| 6 q | 3471.200 | 6.19 | 31.72 | 36.12 | 43.49 | 45.28 | 74.00 | -28.72 | Peak |



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8 Emission Test Results

8.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.231

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

Limit:

| Frequency of emission(MHz) | Conducted limit(dBμV) | |
|----------------------------|-----------------------|-----------|
| | 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) 0.15MHz to 30MHz

8.1.1 E.U.T. Operation

Operating Environment:

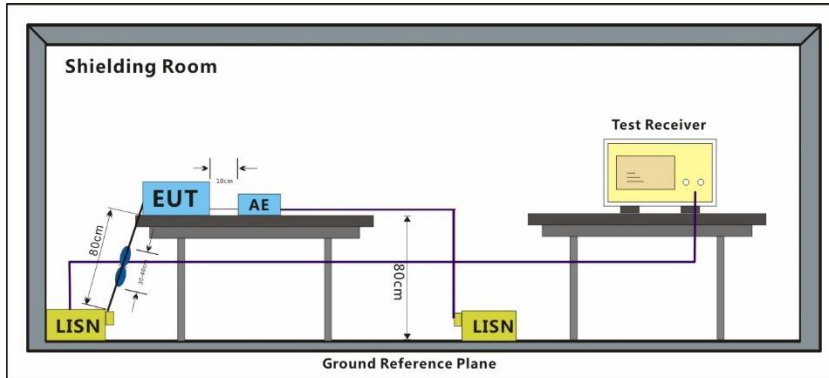
Temperature: 23.3 °C Humidity: 46.4 % RH Atmospheric Pressure: 1005 mbar

8.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 05 | Charge+TX mode_Keep the EUT in continuously transmitting mode. |



8.1.3 Test Setup Diagram



8.1.4 Measurement Procedure and Data

Frequency range: 150kHz-30MHz

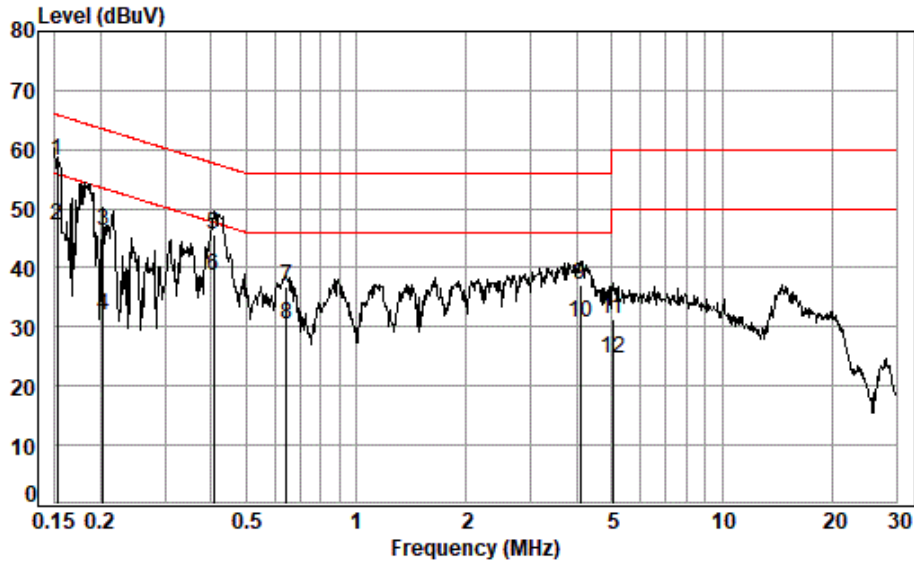
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

The red line show in graphic is the limit in standard used in this section.

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



Test Mode: 05; Line: Live line



Site : Shielding Room
 Condition: Line
 Job No. : 01861ME
 Test mode: 05

: Adapter 1

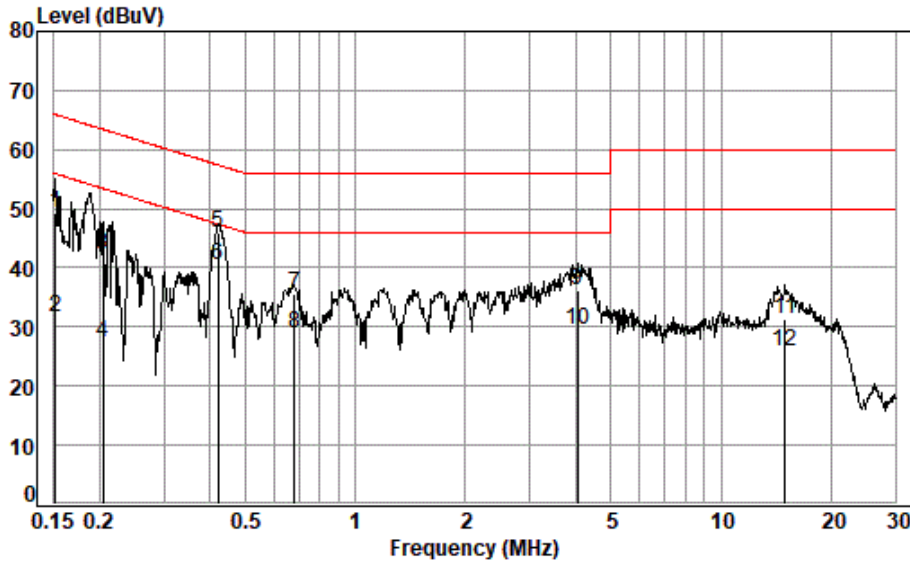
| | Freq | Cable Loss | LISN Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|-----|-------|------------|-------------|------------|-------------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 * | 0.152 | 0.02 | 11.16 | 46.86 | 58.04 | 65.87 | -7.83 | QP |
| 2 * | 0.152 | 0.02 | 11.16 | 35.95 | 47.13 | 55.87 | -8.74 | Average |
| 3 | 0.203 | 0.02 | 10.74 | 35.52 | 46.28 | 63.49 | -17.21 | QP |
| 4 | 0.203 | 0.02 | 10.74 | 21.13 | 31.89 | 53.49 | -21.60 | Average |
| 5 | 0.408 | 0.03 | 10.77 | 34.94 | 45.74 | 57.68 | -11.94 | QP |
| 6 | 0.408 | 0.03 | 10.77 | 27.93 | 38.73 | 47.68 | -8.95 | Average |
| 7 | 0.644 | 0.04 | 10.88 | 25.90 | 36.82 | 56.00 | -19.18 | QP |
| 8 | 0.644 | 0.04 | 10.88 | 19.39 | 30.31 | 46.00 | -15.69 | Average |
| 9 | 4.092 | 0.08 | 10.54 | 26.63 | 37.25 | 56.00 | -18.75 | QP |
| 10 | 4.092 | 0.08 | 10.54 | 20.14 | 30.76 | 46.00 | -15.24 | Average |
| 11 | 5.031 | 0.09 | 10.35 | 20.76 | 31.20 | 60.00 | -28.80 | QP |
| 12 | 5.031 | 0.09 | 10.35 | 14.28 | 24.72 | 50.00 | -25.28 | Average |



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Test Mode: 05; Line: Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 01861ME
 Test mode: 05

: Adapter 1

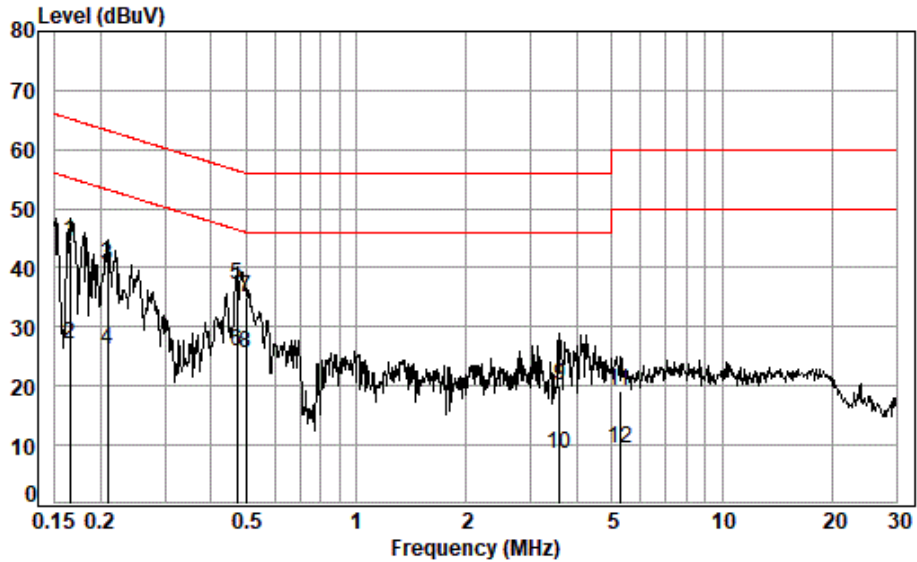
| | Cable | LISN | Read | Limit | Over | | |
|------|--------|--------|-------|-------|-------|-------|----------------|
| Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.152 | 0.02 | 10.83 | 38.53 | 49.38 | 65.91 | -16.53 QP |
| 2 | 0.152 | 0.02 | 10.83 | 20.72 | 31.57 | 55.91 | -24.34 Average |
| 3 | 0.205 | 0.02 | 10.82 | 31.41 | 42.25 | 63.40 | -21.15 QP |
| 4 | 0.205 | 0.02 | 10.82 | 16.69 | 27.53 | 53.40 | -25.87 Average |
| 5 * | 0.421 | 0.03 | 10.44 | 35.51 | 45.98 | 57.42 | -11.44 QP |
| 6 * | 0.421 | 0.03 | 10.44 | 29.92 | 40.39 | 47.42 | -7.03 Average |
| 7 | 0.683 | 0.05 | 10.67 | 24.79 | 35.51 | 56.00 | -20.49 QP |
| 8 | 0.683 | 0.05 | 10.67 | 18.16 | 28.88 | 46.00 | -17.12 Average |
| 9 | 4.049 | 0.08 | 10.96 | 25.15 | 36.19 | 56.00 | -19.81 QP |
| 10 | 4.049 | 0.08 | 10.96 | 18.41 | 29.45 | 46.00 | -16.55 Average |
| 11 | 14.986 | 0.23 | 10.38 | 20.62 | 31.23 | 60.00 | -28.77 QP |
| 12 | 14.986 | 0.23 | 10.38 | 15.31 | 25.92 | 50.00 | -24.08 Average |



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Test Mode: 05; Line: Live line



Site : Shielding Room
 Condition: Line
 Job No. : 01861ME
 Test mode: 05

: Adapter 2

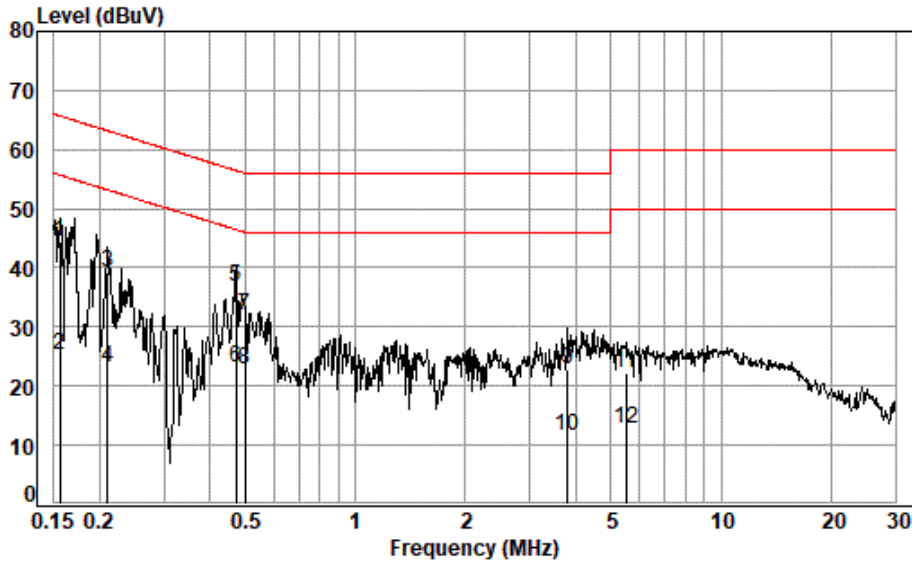
| | Cable Freq | LISN Loss | Read Level | Limit Line | Over Limit | Remark |
|-----|------------|-----------|------------|------------|------------|----------------------|
| | MHz | dB | dBuV | dBuV | dB | |
| 1 | 0.165 | 0.02 | 11.03 | 33.29 | 44.34 | 65.21 -20.87 QP |
| 2 | 0.165 | 0.02 | 11.03 | 15.95 | 27.00 | 55.21 -28.21 Average |
| 3 | 0.209 | 0.02 | 10.74 | 29.70 | 40.46 | 63.23 -22.77 QP |
| 4 | 0.209 | 0.02 | 10.74 | 15.34 | 26.10 | 53.23 -27.13 Average |
| 5 * | 0.474 | 0.04 | 10.77 | 26.16 | 36.97 | 56.45 -19.48 QP |
| 6 | 0.474 | 0.04 | 10.77 | 15.20 | 26.01 | 46.45 -20.44 Average |
| 7 | 0.499 | 0.04 | 10.77 | 24.16 | 34.97 | 56.01 -21.04 QP |
| 8 * | 0.499 | 0.04 | 10.77 | 14.87 | 25.68 | 46.01 -20.33 Average |
| 9 | 3.603 | 0.08 | 10.67 | 9.37 | 20.12 | 56.00 -35.88 QP |
| 10 | 3.603 | 0.08 | 10.67 | -2.27 | 8.48 | 46.00 -37.52 Average |
| 11 | 5.249 | 0.09 | 10.45 | 8.48 | 19.02 | 60.00 -40.98 QP |
| 12 | 5.249 | 0.09 | 10.45 | -1.03 | 9.51 | 50.00 -40.49 Average |



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Test Mode: 05; Line: Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 01861ME
 Test mode: 05
 : Adapter 2

| | Cable | LISN | Read | Limit | Over | |
|------|-------|--------|-------|-------|-------|----------------------|
| Freq | Loss | Factor | Level | Line | Limit | Remark |
| MHz | dB | dB | dBuV | dBuV | dBuV | dB |
| 1 | 0.156 | 0.02 | 10.83 | 33.41 | 44.26 | 65.69 -21.43 QP |
| 2 | 0.156 | 0.02 | 10.83 | 14.53 | 25.38 | 55.69 -30.31 Average |
| 3 | 0.211 | 0.02 | 10.81 | 28.28 | 39.11 | 63.18 -24.07 QP |
| 4 | 0.211 | 0.02 | 10.81 | 12.33 | 23.16 | 53.18 -30.02 Average |
| 5 * | 0.471 | 0.04 | 10.36 | 26.45 | 36.85 | 56.49 -19.64 QP |
| 6 | 0.471 | 0.04 | 10.36 | 12.82 | 23.22 | 46.49 -23.27 Average |
| 7 | 0.499 | 0.04 | 10.32 | 21.61 | 31.97 | 56.01 -24.04 QP |
| 8 * | 0.499 | 0.04 | 10.32 | 12.53 | 22.89 | 46.01 -23.12 Average |
| 9 | 3.799 | 0.08 | 10.91 | 11.78 | 22.77 | 56.00 -33.23 QP |
| 10 | 3.799 | 0.08 | 10.91 | 0.47 | 11.46 | 46.00 -34.54 Average |
| 11 | 5.505 | 0.10 | 11.11 | 10.91 | 22.12 | 60.00 -37.88 QP |
| 12 | 5.505 | 0.10 | 11.11 | 1.70 | 12.91 | 50.00 -37.09 Average |



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9 Test Setup Photo

Refer to Setup Photo for SZCR2306001861ME

10 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2306001861ME

- End of the Report -

