



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

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053

Fax: +86 (0) 755 2671 0594

Email: ee.shenzhen@sgs.com

Report No.: SZEM180400245806

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FCC REPORT

| | |
|---------------------------------|---|
| Application No: | SZEM1804002458CR |
| Applicant: | NGSTB Company Limited |
| Address of Applicant: | F11,BLOCK B,ZhiYuan Bldg,No. 89 Industry 8th Road Nanshan District, Shenzhen, 518067, China |
| Manufacturer: | ABOX42 GmbH |
| Address of Manufacturer: | 76227 Karlsruhe Germany |
| Factory: | Aztech Communication Device (DG) Ltd |
| Address of Factory: | Jiu Jiang Shui Village,Chang Ping Town,Dong Guan City,Guangdong Province |
| Product Name: | Set Top Box for Smart TV/OTT/Hybrid |
| Model No.(EUT): | M30WL.11 |
| Trade Mark: | ABOX42 GmbH |
| FCC ID: | 2APK9-M30WL11 |
| Standards: | 47 CFR Part 15, Subpart C 15.249 |
| Date of Receipt: | 2016-12-26 |
| Date of Test: | 2016-12-26 to 2017-03-03 |
| Date of Issue: | 2018-04-08 |
| Test Result: | PASS * |

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

Authorized Signature:



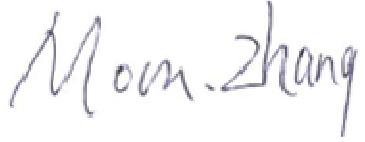
Keny Xu
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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2 Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2018-04-08 | | Original |
| | | | | |
| | | | | |

| | | | | |
|--------------------------|--|---|--|--|
| Authorized for issue by: | | | | |
| | |  | | |
| | | (Moon Zhang) /Project Engineer | | |
| | |  | | |
| | | (Eric Fu) /Reviewer | | |

3 Test Summary

| Test Item | Test Requirement | Test method | Result |
|--|-------------------------------------|---|--------|
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.249 | N/A | PASS |
| Occupied bandwidth-20dB | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.9.2 | PASS |
| Conducted Emission | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.2 | PASS |
| Field Strength of the Fundamental Signal | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.5&6.6 | PASS |
| Radiated Transmit Spurious Emissions | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.10.5 | PASS |

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5 General Information

5.1 General Description of EUT

| | |
|---------------------|--|
| Frequency Range: | 2405 MHz ~ 2480MHz |
| Modulation Type: | O-QPSK |
| Number of Channels: | 16 (declared by the client) |
| Sample Type: | Mobile production |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 0dBi |
| Power Supply: | AC/DC Adapter: MODEL: F18W6-050250SPA INPUT:AC100-240V, 50/60Hz, 0.6A OUTPUT:DC 5V, 2.5A |
| Cable: | HDMI Cable: 150cm unsheilded LAN Cable: 200cm unsheilded |

| Operation Frequency each of channel | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2405 MHz | 7 | 2435 MHz | 13 | 2465 MHz |
| 2 | 2410 MHz | 8 | 2440 MHz | 14 | 2470 MHz |
| 3 | 2415 MHz | 9 | 2445 MHz | 15 | 2475 MHz |
| 4 | 2420 MHz | 10 | 2450 MHz | 16 | 2480 MHz |
| 5 | 2425 MHz | 11 | 2455 MHz | | |
| 6 | 2430 MHz | 12 | 2460 MHz | | |

| Channel | Frequency |
|---------------------------|-----------|
| The Lowest channel(CH1) | 2405MHz |
| The Middle channel(CH8) | 2445MHz |
| The Highest channel(CH16) | 2480MHz |



5.2 Test Environment and Mode

| Test Environment: | |
|--------------------------|--|
| Temperature: | 25.0 °C |
| Humidity: | 55 % RH |
| Atmospheric Pressure: | 1010 mbar |
| Test Mode: | |
| Transmitter mode | Keep the EUT in transmitting mode with modulation. |

5.3 Description of Support Units

The EUT has been tested independent unit.

5.4 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, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

5.5 Test Facility

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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**

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. 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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Other Information Requested by the Customer

None.

5.9 Equipment List

| Conducted Emission | | | | | | |
|--------------------|-------------------|------------------------------------|-----------------|---------------|------------------------|----------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 1 | Shielding Room | ZhongYu Electron | GB-88 | SEM001-06 | 2016-05-13 | 2017-05-13 |
| 2 | LISN | Rohde & Schwarz | ENV216 | SEM007-01 | 2016-10-09 | 2017-10-09 |
| 3 | LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2016-04-25 | 2017-04-25 |
| 4 | 8 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T8-02 | EMC0120 | 2016-09-28 | 2017-09-28 |
| 5 | 4 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T4-02 | EMC0121 | 2016-09-28 | 2017-09-28 |
| 6 | 2 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T2-02 | EMC0122 | 2016-09-28 | 2017-09-28 |
| 7 | EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-02 | 2016-04-25 | 2017-04-25 |
| 8 | DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2016-10-09 | 2017-10-09 |
| 9 | Coaxial Cable | SGS | N/A | SEM024-01 | 2016-07-13 | 2017-07-12 |

| RF connected test | | | | | | |
|-------------------|-------------------|-----------------|-----------|---------------|------------------------|----------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 1 | DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2016-10-09 | 2017-10-09 |
| 2 | Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2016-10-09 | 2017-10-09 |
| 3 | Signal Generator | Rohde & Schwarz | SML03 | SEM006-02 | 2016-04-25 | 2017-04-25 |
| 4 | Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2016-10-09 | 2017-10-09 |
| 5 | Coaxial Cable | SGS | N/A | SEM031-02 | 2016-07-13 | 2017-07-12 |



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

Report No.: SZEM180400245806

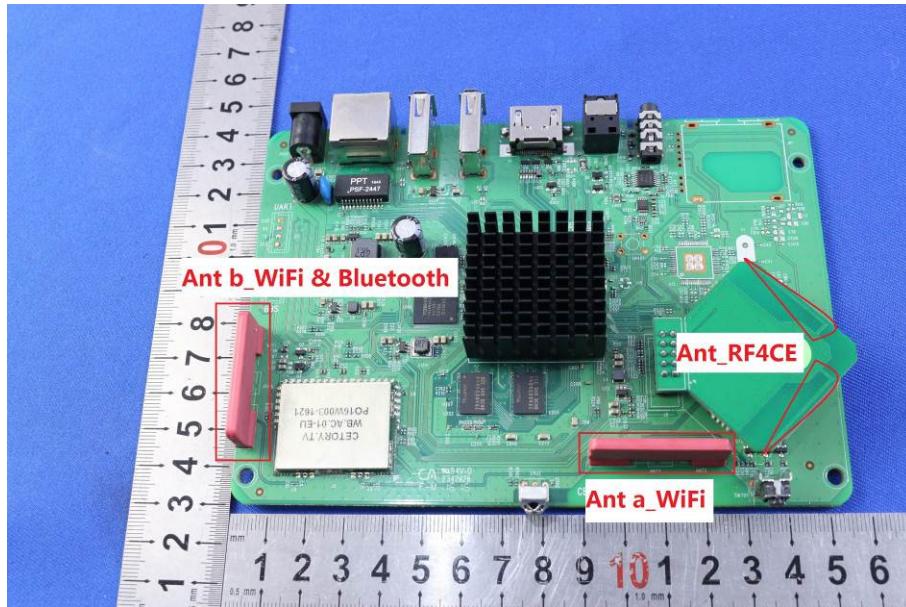
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| RE in Chamber | | | | | | |
|---------------|--------------------------------|--------------------------|-------------------|---------------|------------------------|----------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 1 | 3m Chamber | AUDIX | N/A | SEM001-02 | 2016-05-13 | 2017-05-13 |
| 2 | EXA Spectrum Analyzer | Agilent Technologies Inc | N9010A | SEM004-09 | 2016-07-19 | 2017-07-19 |
| 3 | BiConiLog Antenna (26-3000MHz) | ETS-Lindgren | 3142C | SEM003-02 | 2014-11-15 | 2017-11-15 |
| 4 | Amplifier (0.1-1300MHz) | HP | 8447D | SEM005-02 | 2016-10-09 | 2017-10-09 |
| 5 | Horn Antenna (1-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2015-06-14 | 2018-06-14 |
| 6 | Horn Antenna (18-26GHz) | ETS-Lindgren | 3160 | SEM003-12 | 2014-11-24 | 2017-11-24 |
| 7 | Horn Antenna(26GHz-40GHz) | A.H.Systems, inc. | SAS-573 | SEM003-13 | 2015-02-12 | 2018-02-12 |
| 8 | Low Noise Amplifier | Black Diamond Series | BDLNA-0118-352810 | SEM005-05 | 2016-10-09 | 2017-10-09 |
| 9 | Band filter | Amindeon | Asi 3314 | SEM023-01 | N/A | N/A |
| 10 | Coaxial Cable | SGS | N/A | SEM026-01 | 2016-07-13 | 2017-07-12 |

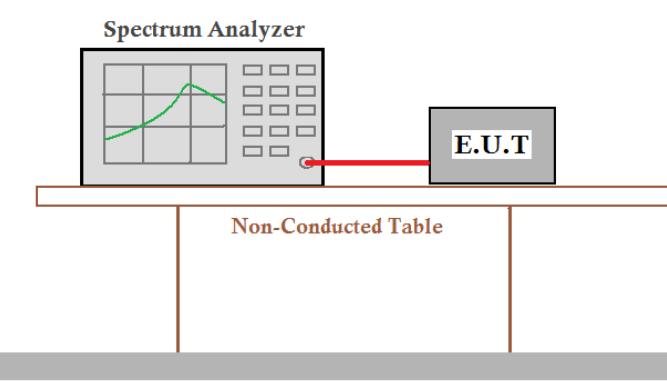
Note: The calibration interval is one year, all the instruments are valid.

6 Test Results and Measurement Data

6.1 Antenna Requirement

| | |
|---|---|
| Standard Requirement: | 47 CFR Part 15, Subpart C 15.203 & 15.249(c) |
| EUT Antenna: |  |
| The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi. | |

6.2 -20dB bandwidth

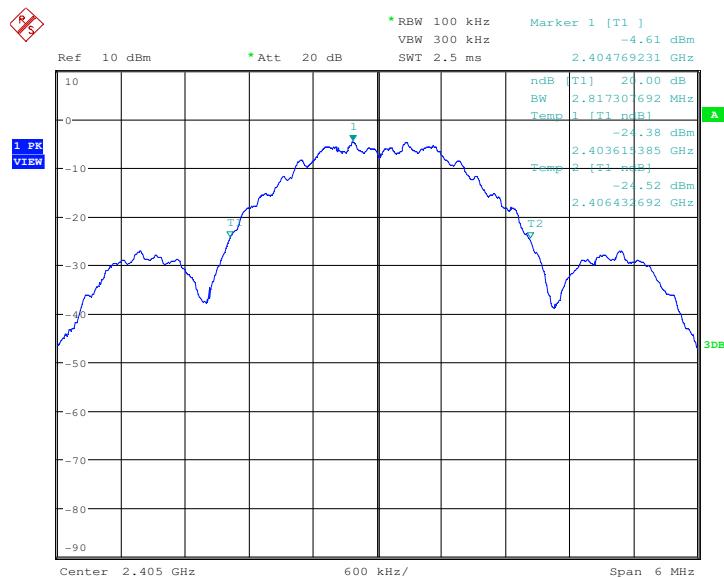
| | |
|-------------------|--|
| Test Requirement: | 47 CFR Part 15 Subpart C 15.249 |
| Test Method: | ANSI C63.10:2013 |
| Test Setup: |  |
| Instruments Used: | Refer to section 6.9.2 for details |
| Test Mode: | Transmitting mode |
| Test Results: | Pass |

Measurement Data

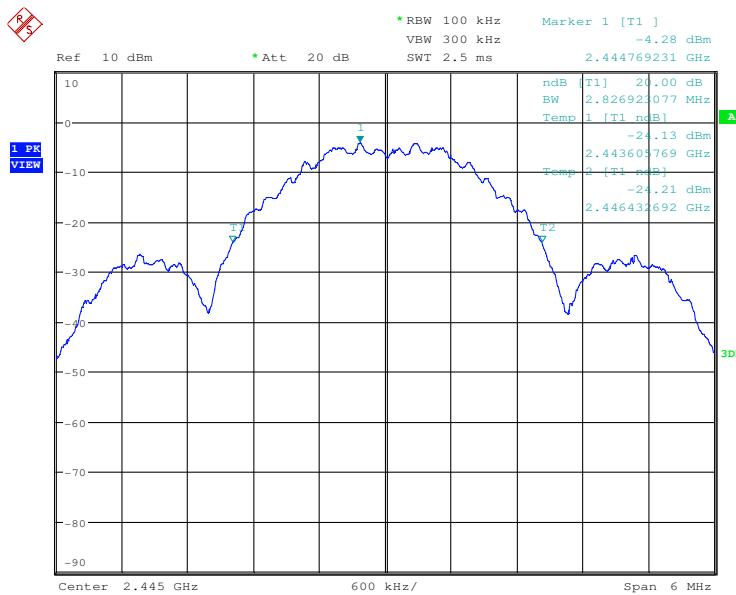
| Transmitter mode | |
|------------------|------------------------------|
| Test channel | Occupied bandwidth-20dB(MHz) |
| Lowest | 2.82 |
| Middle | 2.83 |
| Highest | 2.81 |

Test plot as follows:

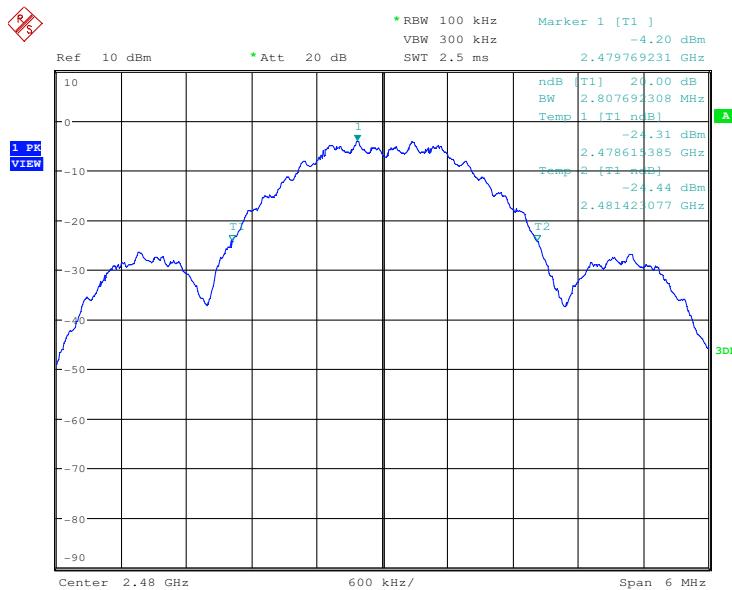
| Test mode: | Transmitter | Test channel: | Lowest |
|------------|-------------|---------------|--------|
|------------|-------------|---------------|--------|



| Test mode: | Transmitter | Test channel: | Middle |
|------------|-------------|---------------|--------|
|------------|-------------|---------------|--------|

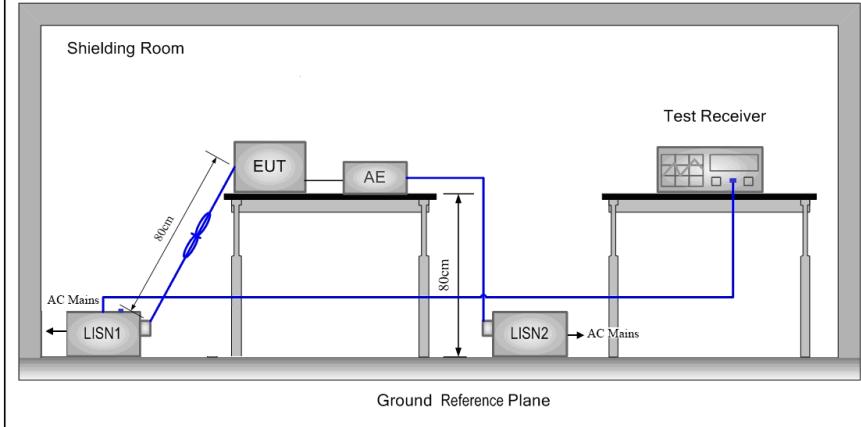


| | | | |
|------------|-------------|---------------|---------|
| Test mode: | Transmitter | Test channel: | Highest |
|------------|-------------|---------------|---------|



6.3 Conducted Emissions

| | | | |
|--|---|-----------|--------------|
| Test Requirement: | 47 CFR Part 15, Subpart C 15.249 | | |
| Test Method: | ANSI C63.10 (2013) Section 6.2 | | |
| Test Frequency Range: | 150KHz to 30 MHz | | |
| Limit: | Frequency range (MHz) | | Limit (dBuV) |
| | | | Quasi-peak |
| | 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. | | | |
| Test Procedure: | <ol style="list-style-type: none">1) The mains terminal disturbance voltage test was conducted in a shielded room.2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. | | |

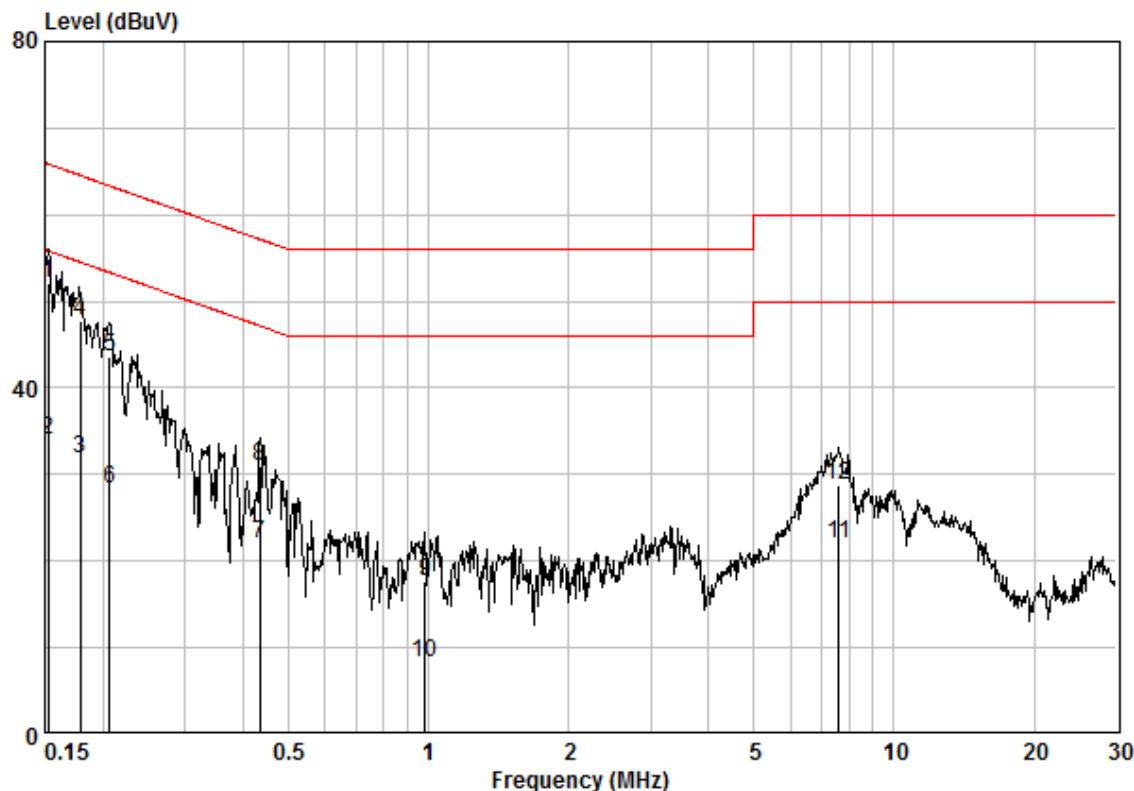
| | |
|-------------------|--|
| Test Setup: |  <p>The diagram illustrates the test setup within a 'Shielding Room'. A 'EUT' (Equipment Under Test) is connected to an 'AE' (Antenna Equipment) on a central table. A 'Test Receiver' is connected to the AE. Two LISN (Line Impedance Stabilization Network) units, LISN1 and LISN2, are connected to the AC Mains. LISN1 is connected to the EUT and LISN2 is connected to the Test Receiver. Both LISN units are connected to a 'Ground Reference Plane' located below the table. A blue line indicates a 90cm distance from the LISN1 connection point to the EUT. A vertical dimension of 80cm is shown between the LISN2 connection point and the ground plane.</p> |
| Instruments Used: | Refer to section 4.10 for details |
| Test Mode: | Transmitter mode |
| Test Results: | Pass |

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Site : Shielding Room

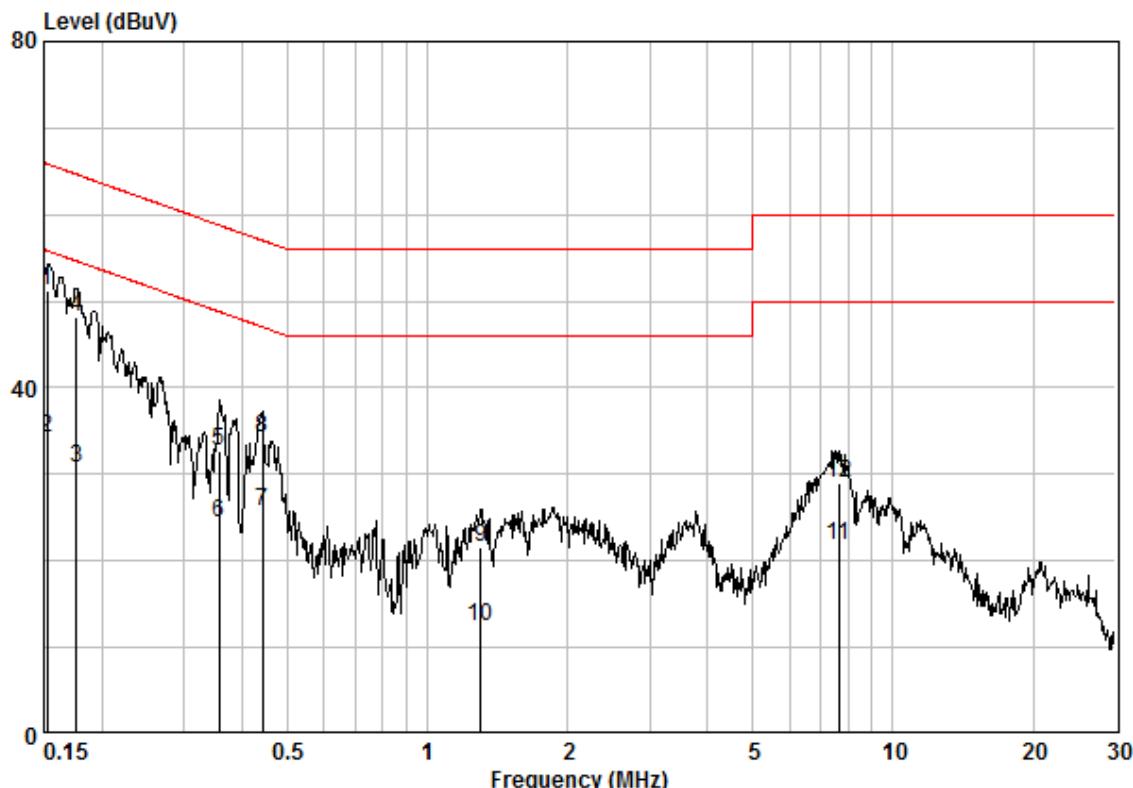
Condition : CE LINE

Job No. : 11090CR

Test Mode : TX mode

| Freq | Cable | LISN | Read | Limit | Over | Limit | Remark |
|------|---------|--------|-------|-------|-------|-------|----------------|
| | Loss | Factor | Level | | | | |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB |
| 1 | 0.15240 | 0.02 | 9.64 | 42.43 | 52.09 | 65.87 | -13.78 QP |
| 2 | 0.15240 | 0.02 | 9.64 | 24.27 | 33.93 | 55.87 | -21.94 AVERAGE |
| 3 | 0.17866 | 0.02 | 9.64 | 22.17 | 31.83 | 54.55 | -22.72 AVERAGE |
| 4 | 0.17866 | 0.02 | 9.64 | 38.16 | 47.82 | 64.55 | -16.73 QP |
| 5 | 0.20614 | 0.02 | 9.64 | 33.94 | 43.60 | 63.36 | -19.76 QP |
| 6 | 0.20614 | 0.02 | 9.64 | 18.58 | 28.24 | 53.36 | -25.12 AVERAGE |
| 7 | 0.43511 | 0.02 | 9.64 | 12.28 | 21.94 | 47.15 | -25.22 AVERAGE |
| 8 | 0.43511 | 0.02 | 9.64 | 21.25 | 30.91 | 57.15 | -26.24 QP |
| 9 | 0.98391 | 0.03 | 9.65 | 8.05 | 17.73 | 56.00 | -38.27 QP |
| 10 | 0.98391 | 0.03 | 9.65 | -1.33 | 8.35 | 46.00 | -37.65 AVERAGE |
| 11 | 7.606 | 0.09 | 9.80 | 12.05 | 21.94 | 50.00 | -28.06 AVERAGE |
| 12 | 7.606 | 0.09 | 9.80 | 18.95 | 28.84 | 60.00 | -31.16 QP |

Neutral Line:



Site : Shielding Room
 Condition : CE NEUTRAL
 Job No. : 11090CR
 Test Mode : TX mode

| | Freq | Cable | LISN | Read | Limit | Over | Remark |
|----|---------|-------|--------|-------|-------|-------|----------------|
| | | Loss | Factor | Level | Level | Line | |
| | MHz | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.15240 | 0.02 | 9.64 | 41.50 | 51.16 | 65.87 | -14.70 QP |
| 2 | 0.15240 | 0.02 | 9.64 | 24.55 | 34.21 | 55.87 | -21.66 AVERAGE |
| 3 | 0.17584 | 0.02 | 9.63 | 21.00 | 30.65 | 54.68 | -24.03 AVERAGE |
| 4 | 0.17584 | 0.02 | 9.63 | 38.48 | 48.13 | 64.68 | -16.55 QP |
| 5 | 0.35765 | 0.02 | 9.63 | 23.12 | 32.77 | 58.78 | -26.01 QP |
| 6 | 0.35765 | 0.02 | 9.63 | 14.84 | 24.49 | 48.78 | -24.30 AVERAGE |
| 7 | 0.44208 | 0.02 | 9.63 | 16.14 | 25.79 | 47.02 | -21.23 AVERAGE |
| 8 | 0.44208 | 0.02 | 9.63 | 24.63 | 34.28 | 57.02 | -22.74 QP |
| 9 | 1.303 | 0.03 | 9.64 | 12.01 | 21.68 | 56.00 | -34.32 QP |
| 10 | 1.303 | 0.03 | 9.64 | 2.78 | 12.45 | 46.00 | -33.55 AVERAGE |
| 11 | 7.646 | 0.09 | 9.79 | 12.01 | 21.88 | 50.00 | -28.12 AVERAGE |
| 12 | 7.646 | 0.09 | 9.79 | 19.15 | 29.03 | 60.00 | -30.97 QP |

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

6.4 Radiated Spurious Emission

| | | | | | |
|--|---|----------------------------------|-----------------|---------------|--------------------------|
| 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 | | | | |
| Test Site: | Measurement Distance: 3m | | | | |
| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark |
| | 0.009MHz-0.015MHz | Quasi-peak | 200Hz | 1KHz | Quasi-peak |
| | 0.015MHz-30MHz | Quasi-peak | 9kHz | 30KHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 120 kHz | 300KHz | Quasi-peak |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | | Peak | 1MHz | 10Hz | Average |
| Limit: | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - | Quasi-peak | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | Quasi-peak | 30 |
| | 1.705MHz-30MHz | 30 | - | Quasi-peak | 30 |
| | 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| | 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| | 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| | 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| | Above 1GHz | 500 | 54.0 | Average | 3 |
| | | | 74.0 | Peak | 3 |
| (Field strength of the fundamental signal) | Frequency | Limit (dBuV/m @3m) | | Remark | |
| | 2400MHz-2483.5MHz | 94.0 | | Average Value | |
| | | 114.0 | | Peak Value | |
| Test Setup: | | | | | |

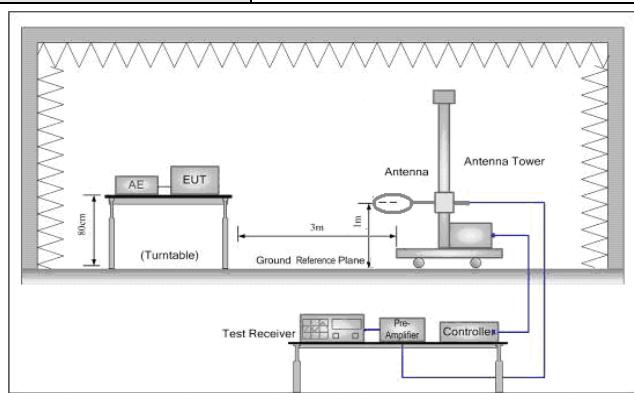


Figure 1. Below 30MHz

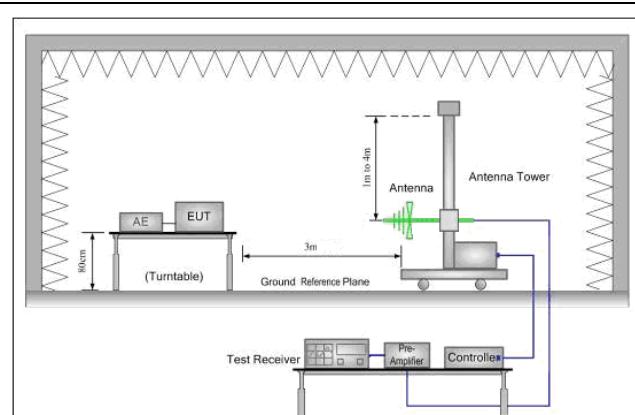


Figure 2. 30MHz to 1GHz

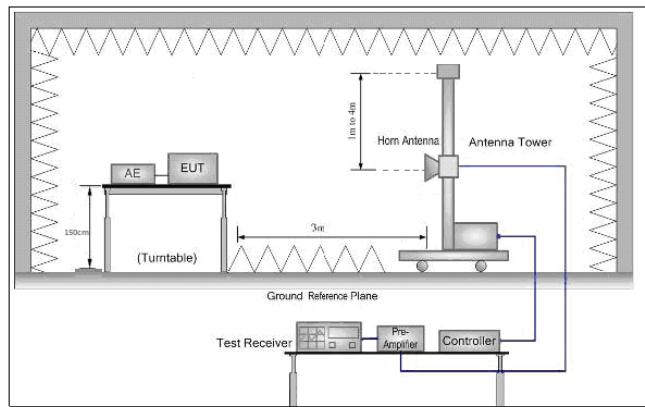


Figure 3. Above 1 GHz

| | |
|-------------------|---|
| Test Procedure: | <ol style="list-style-type: none"> For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 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 worse case. Repeat above procedures until all frequencies measured was complete. |
| Final Test Mode: | Transmitting with modulation mode. |
| Instruments Used: | Refer to section 4.10 for details |
| Test Results: | Pass |

Measurement Data**6.4.1 Field Strength Of The Fundamental Signal**

Peak value:

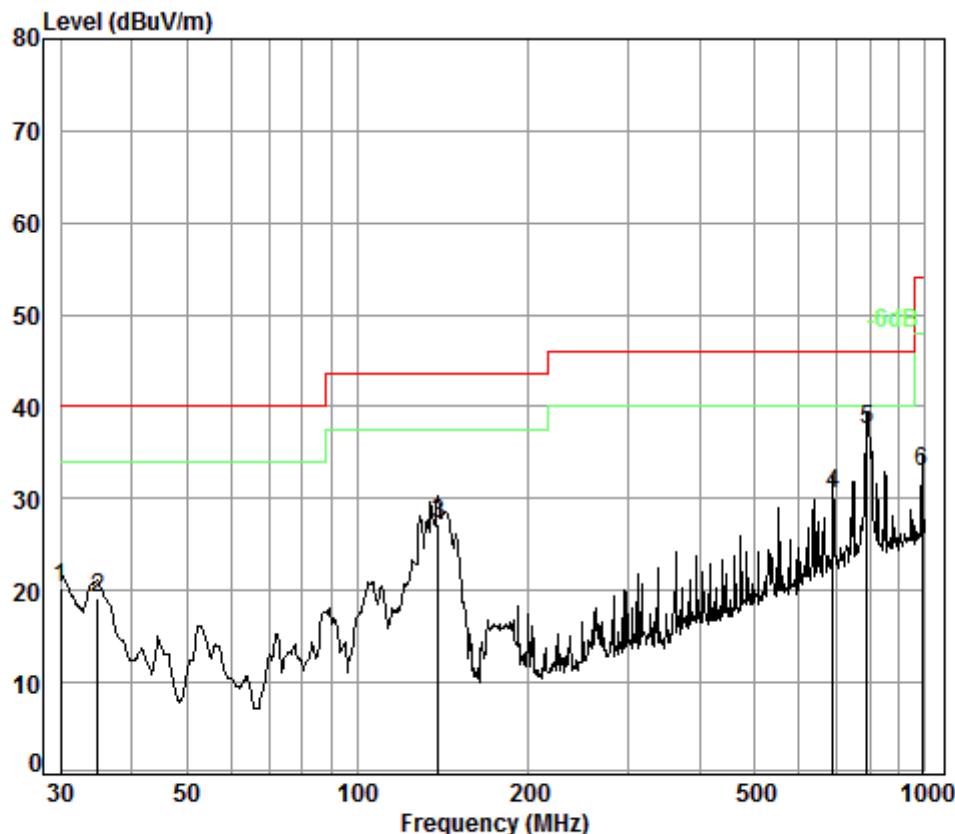
| Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-----------------------|-----------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|
| 2404.48 | 29.12 | 5.35 | 37.96 | 99.26 | 95.77 | 114.00 | -18.23 | Horizontal |
| 2405.52 | 29.12 | 5.35 | 37.96 | 98.03 | 94.54 | 114.00 | -19.46 | Vertical |
| 2445.40 | 29.23 | 5.38 | 37.96 | 99.70 | 96.35 | 114.00 | -17.65 | Horizontal |
| 2445.44 | 29.23 | 5.38 | 37.96 | 96.46 | 93.11 | 114.00 | -20.89 | Vertical |
| 2480.44 | 29.34 | 5.41 | 37.95 | 99.20 | 96.00 | 114.00 | -18.00 | Horizontal |
| 2480.48 | 29.34 | 5.41 | 37.95 | 97.58 | 94.38 | 114.00 | -19.62 | Vertical |

Average value:

| Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-----------------------|-----------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|
| 2404.48 | 29.12 | 5.35 | 37.96 | 96.64 | 93.15 | 94.00 | -0.85 | Horizontal |
| 2405.52 | 29.12 | 5.35 | 37.96 | 94.94 | 91.45 | 94.00 | -2.55 | Vertical |
| 2445.40 | 29.23 | 5.38 | 37.96 | 96.83 | 93.48 | 94.00 | -0.52 | Horizontal |
| 2445.44 | 29.23 | 5.38 | 37.96 | 92.85 | 89.50 | 94.00 | -4.50 | Vertical |
| 2480.44 | 29.34 | 5.41 | 37.95 | 96.79 | 93.59 | 94.00 | -0.41 | Horizontal |
| 2480.48 | 29.34 | 5.41 | 37.95 | 94.89 | 91.69 | 94.00 | -2.31 | Vertical |

6.4.2 Spurious Emissions**6.4.2.1 Radiated emission below 1GHz**

| | | | |
|------------|------------------|---------------|----------|
| Test mode: | Transmitter mode | Polarization: | Vertical |
|------------|------------------|---------------|----------|



Condition: 3m VERTICAL

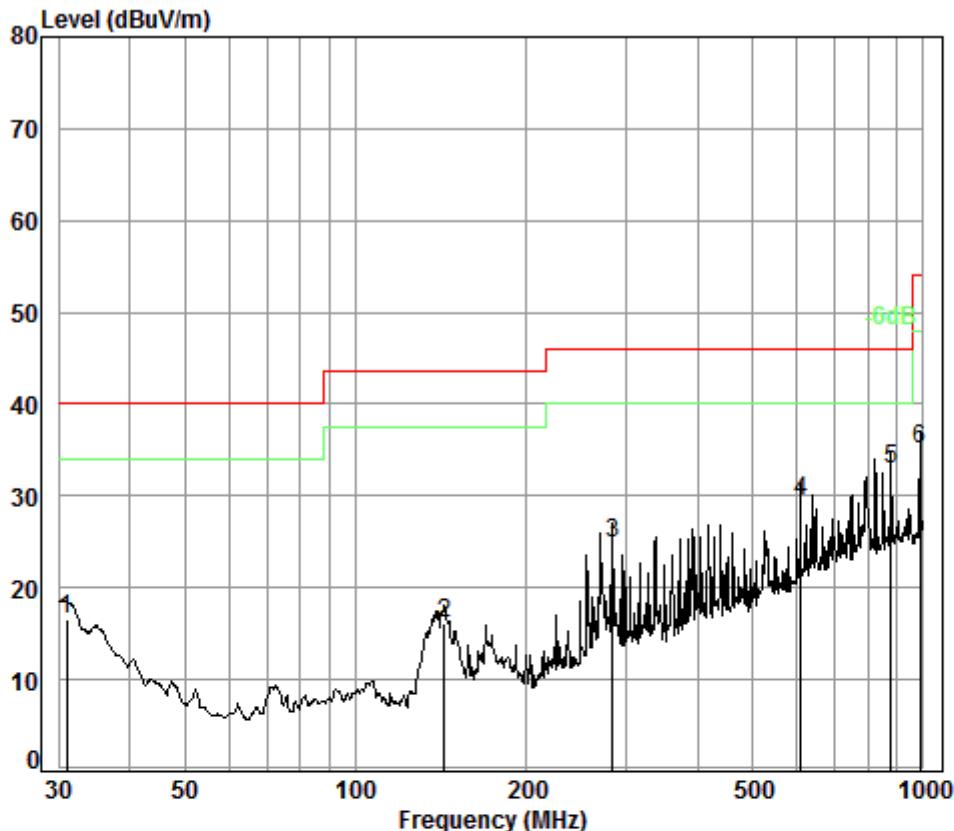
Job No. : 11090CR

Test mode: TX

: 2.4G

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Over |
|------|--------|--------|--------|-------|--------|--------|--------|
| | Loss | Factor | Factor | Level | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 30.00 | 0.60 | 18.70 | 27.36 | 28.31 | 20.25 | 40.00 |
| 2 | 34.88 | 0.60 | 15.97 | 27.34 | 29.87 | 19.10 | 40.00 |
| 3 | 138.87 | 1.29 | 8.05 | 26.96 | 44.84 | 27.22 | 43.50 |
| 4 | 687.15 | 2.88 | 21.50 | 27.43 | 33.50 | 30.45 | 46.00 |
| 5 pp | 790.62 | 3.18 | 22.06 | 27.31 | 39.61 | 37.54 | 46.00 |
| 6 | 986.07 | 3.69 | 23.74 | 26.37 | 31.79 | 32.85 | 54.00 |
| | | | | | | | -21.15 |

| | | | |
|------------|------------------|---------------|------------|
| Test mode: | Transmitter mode | Polarization: | Horizontal |
|------------|------------------|---------------|------------|



Condition: 3m HORIZONTAL

Job No. : 11090CR

Test mode: TX

: 2.4G

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit |
|------|--------|------------|------------|---------------|------------|--------|------------|------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 30.96 | 0.60 | 18.16 | 27.35 | 25.18 | 16.59 | 40.00 | -23.41 |
| 2 | 143.33 | 1.30 | 8.40 | 26.94 | 33.27 | 16.03 | 43.50 | -27.47 |
| 3 | 283.98 | 1.83 | 13.20 | 26.44 | 36.35 | 24.94 | 46.00 | -21.06 |
| 4 | 607.79 | 2.72 | 20.02 | 27.53 | 34.17 | 29.38 | 46.00 | -16.62 |
| 5 pp | 878.32 | 3.52 | 23.03 | 26.89 | 33.26 | 32.92 | 46.00 | -13.08 |
| 6 | 986.07 | 3.69 | 23.74 | 26.37 | 33.94 | 35.00 | 54.00 | -19.00 |



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| 6.4.2.2 Transmitter emission above 1GHz | | | | | | | | |
|---|-----------------------|-----------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|
| Test mode: | | Transmitter | | Test channel: | | Lowest | Remark: | |
| Frequency (MHz) | Antenna Factor (dB/m) | Cable loss (dB) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3765.116 | 32.97 | 7.73 | 37.98 | 45.07 | 47.79 | 74.00 | -26.21 | Vertical |
| 4810.000 | 34.17 | 8.88 | 38.40 | 42.42 | 47.07 | 74.00 | -26.93 | Vertical |
| 5803.188 | 34.59 | 10.01 | 38.34 | 44.10 | 50.36 | 74.00 | -23.64 | Vertical |
| 7215.000 | 36.41 | 10.68 | 37.11 | 42.03 | 52.01 | 74.00 | -21.99 | Vertical |
| 9620.000 | 37.52 | 12.51 | 35.09 | 38.11 | 53.05 | 74.00 | -20.95 | Vertical |
| 12015.620 | 38.61 | 14.55 | 35.64 | 36.05 | 53.57 | 74.00 | -20.43 | Vertical |
| 3497.281 | 32.20 | 7.63 | 37.95 | 44.86 | 46.74 | 74.00 | -27.26 | Horizontal |
| 4810.000 | 34.17 | 8.88 | 38.40 | 42.11 | 46.76 | 74.00 | -27.24 | Horizontal |
| 5769.698 | 34.57 | 9.91 | 38.35 | 45.00 | 51.13 | 74.00 | -22.87 | Horizontal |
| 7215.000 | 36.41 | 10.68 | 37.11 | 42.11 | 52.09 | 74.00 | -21.91 | Horizontal |
| 9620.000 | 37.52 | 12.51 | 35.09 | 38.24 | 53.18 | 74.00 | -20.82 | Horizontal |
| 12155.510 | 38.69 | 14.43 | 35.97 | 36.61 | 53.76 | 74.00 | -20.24 | Horizontal |

| Test mode: | | Transmitter | | Test channel: | | Middle | Remark: | | Peak |
|-----------------|-----------------------|-----------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|------|
| Frequency (MHz) | Antenna Factor (dB/m) | Cable loss (dB) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 3786.970 | 33.03 | 7.74 | 37.98 | 44.64 | 47.43 | 74.00 | -26.57 | Vertical | |
| 4880.000 | 34.29 | 8.97 | 38.44 | 42.60 | 47.42 | 74.00 | -26.58 | Vertical | |
| 5964.939 | 34.68 | 10.46 | 38.31 | 43.48 | 50.31 | 74.00 | -23.69 | Vertical | |
| 7320.000 | 36.37 | 10.72 | 37.01 | 41.79 | 51.87 | 74.00 | -22.13 | Vertical | |
| 9760.000 | 37.55 | 12.58 | 35.02 | 37.59 | 52.70 | 74.00 | -21.30 | Vertical | |
| 11471.960 | 38.08 | 13.99 | 35.49 | 36.52 | 53.10 | 74.00 | -20.90 | Vertical | |
| 3589.562 | 32.46 | 7.66 | 37.96 | 44.06 | 46.22 | 74.00 | -27.78 | Horizontal | |
| 4880.000 | 34.29 | 8.97 | 38.44 | 42.66 | 47.48 | 74.00 | -26.52 | Horizontal | |
| 5964.939 | 34.68 | 10.46 | 38.31 | 43.60 | 50.43 | 74.00 | -23.57 | Horizontal | |
| 7320.000 | 36.37 | 10.72 | 37.01 | 41.58 | 51.66 | 74.00 | -22.34 | Horizontal | |
| 9760.000 | 37.55 | 12.58 | 35.02 | 37.59 | 52.70 | 74.00 | -21.30 | Horizontal | |
| 12137.940 | 38.68 | 14.45 | 35.93 | 36.21 | 53.41 | 74.00 | -20.59 | Horizontal | |

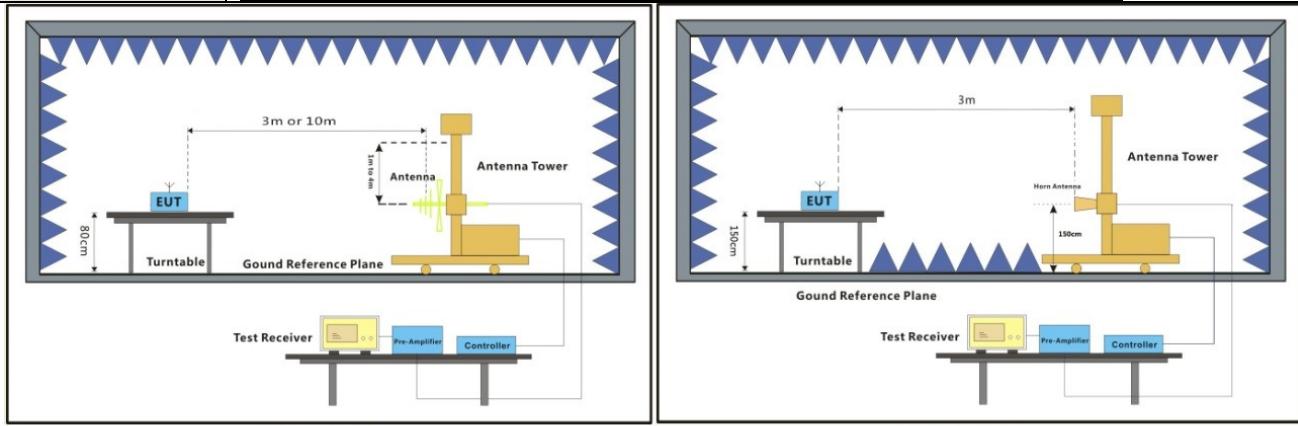
| Test mode: | | Transmitter | | Test channel: | | Highest | | Remark: | | Peak |
|-----------------|-----------------------|-----------------|--------------------|-------------------|----------------|---------------------|-----------------|------------|--|--------------|
| Frequency (MHz) | Antenna Factor (dB/m) | Cable loss (dB) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | | | Polarization |
| 3599.965 | 32.50 | 7.67 | 37.96 | 44.65 | 46.86 | 74.00 | -27.14 | Vertical | | |
| 4960.000 | 34.43 | 9.09 | 38.48 | 43.35 | 48.39 | 74.00 | -25.61 | Vertical | | |
| 5990.888 | 34.69 | 10.53 | 38.30 | 43.32 | 50.24 | 74.00 | -23.76 | Vertical | | |
| 7440.000 | 36.32 | 10.77 | 36.90 | 41.63 | 51.82 | 74.00 | -22.18 | Vertical | | |
| 9920.000 | 37.58 | 12.67 | 34.94 | 36.82 | 52.13 | 74.00 | -21.87 | Vertical | | |
| 12297.040 | 38.78 | 14.31 | 36.31 | 36.57 | 53.35 | 74.00 | -20.65 | Vertical | | |
| 3808.951 | 33.09 | 7.74 | 37.98 | 45.33 | 48.18 | 74.00 | -25.82 | Horizontal | | |
| 4960.000 | 34.43 | 9.09 | 38.48 | 42.52 | 47.56 | 74.00 | -26.44 | Horizontal | | |
| 5794.797 | 34.58 | 9.98 | 38.34 | 44.19 | 50.41 | 74.00 | -23.59 | Horizontal | | |
| 7440.000 | 36.32 | 10.77 | 36.90 | 41.62 | 51.81 | 74.00 | -22.19 | Horizontal | | |
| 9920.000 | 37.58 | 12.67 | 34.94 | 36.84 | 52.15 | 74.00 | -21.85 | Horizontal | | |
| 12085.370 | 38.65 | 14.49 | 35.80 | 35.76 | 53.10 | 74.00 | -20.90 | Horizontal | | |

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

6.5 Restricted bands 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 | | | | | | | | | | | | | | | | | | | | | | |
| Test Site: | Measurement Distance: 3m | | | | | | | | | | | | | | | | | | | | | | |
| Limit: | <p>Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general field strength limits, whichever is less stringent.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Frequency</th> <th style="text-align: center;">Limit (dBuV/m @3m)</th> <th style="text-align: center;">Remark</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">30MHz-88MHz</td> <td style="text-align: center;">40.0</td> <td style="text-align: center;">Quasi-peak Value</td> </tr> <tr> <td style="text-align: center;">88MHz-216MHz</td> <td style="text-align: center;">43.5</td> <td style="text-align: center;">Quasi-peak Value</td> </tr> <tr> <td style="text-align: center;">216MHz-960MHz</td> <td style="text-align: center;">46.0</td> <td style="text-align: center;">Quasi-peak Value</td> </tr> <tr> <td style="text-align: center;">960MHz-1GHz</td> <td style="text-align: center;">54.0</td> <td style="text-align: center;">Quasi-peak Value</td> </tr> <tr> <td style="text-align: center;">Above 1GHz</td> <td style="text-align: center;">54.0</td> <td style="text-align: center;">Average Value</td> </tr> <tr> <td></td> <td style="text-align: center;">74.0</td> <td style="text-align: center;">Peak Value</td> </tr> </tbody> </table> | | 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 | | 74.0 | Peak Value |
| 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 | | | | | | | | | | | | | | | | | | | | | |
| | 74.0 | Peak Value | | | | | | | | | | | | | | | | | | | | | |

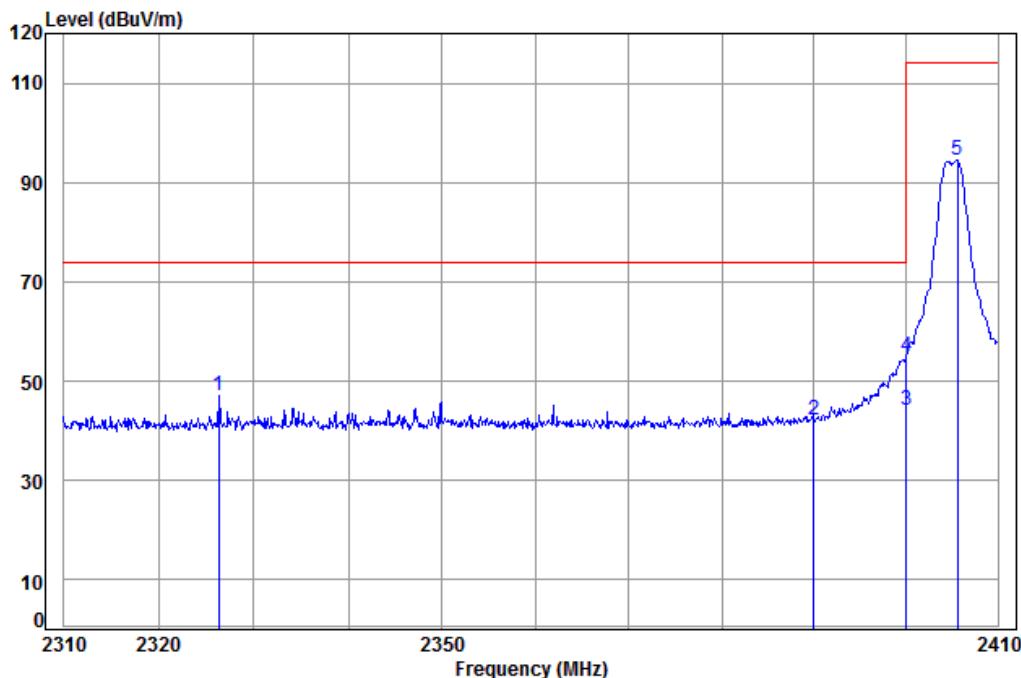


30MHz-1GHz

Above 1GHz

| | |
|-------------------|--|
| Test Procedure: | <ul style="list-style-type: none">a. The EUT was placed on the top of a rotating table 0.8/1.5 meters above the ground at a 3 meter semi-anechoic/full-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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channelg. Test the EUT in the lowest channel , the Highest channelh. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.i. Repeat above procedures until all frequencies measured was complete. |
| Instruments Used: | Refer to section 4.10 for details |
| Final Test Mode: | Transmitting with modulation mode. |
| Test Results: | Pass |

| | | | | | |
|------------------|--|---------------|--------|---------|------|
| Worse case mode: | | Test channel: | Lowest | Remark: | Peak |
|------------------|--|---------------|--------|---------|------|



Condition: 3m VERTICAL

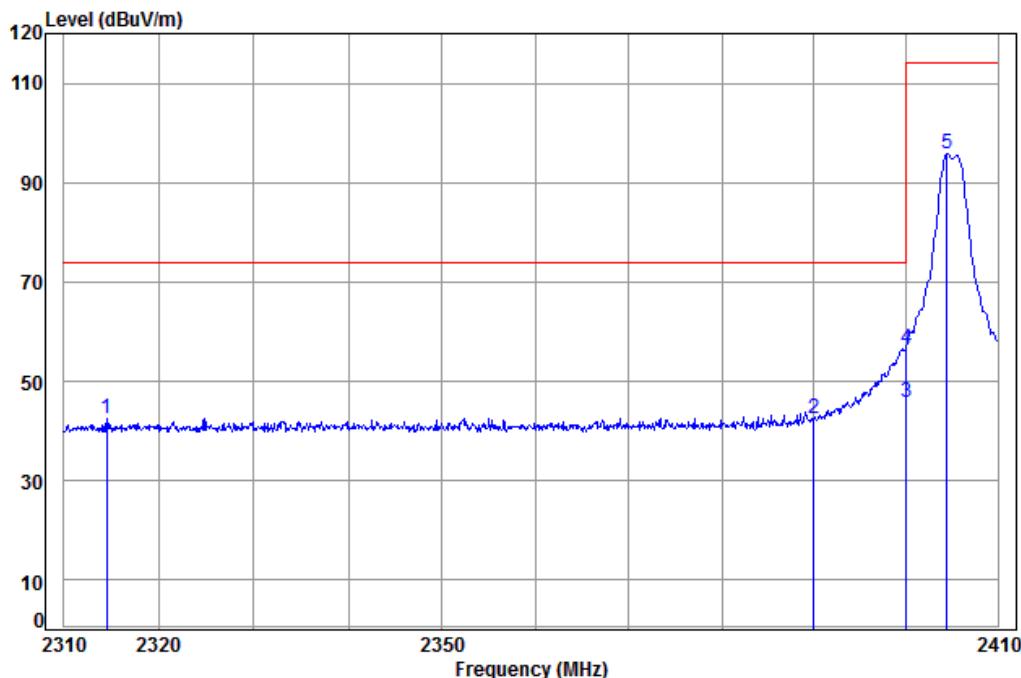
Job No: : 11090CR

Mode: : 2405 Bandedge

: Zigbee

| | Cable Freq | Ant Loss | Preamp Factor | Read Level | Limit Level | Over Line | Over Limit | Remark |
|------|---------------|-------------|------------------|---------------|----------------|--------------|---------------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2326.308 | 5.29 | 28.88 | 37.97 | 50.73 | 46.93 | 74.00 | -27.07 |
| 2 | 2390.000 | 5.34 | 29.08 | 37.96 | 45.80 | 42.26 | 74.00 | -31.74 |
| 3 pp | 2400.000 | 5.34 | 29.11 | 37.96 | 47.59 | 44.08 | 54.00 | -9.92 Average |
| 4 pk | 2400.000 | 5.34 | 29.11 | 37.96 | 58.43 | 54.92 | 74.00 | -19.08 Peak |
| 5 | 2405.612 | 5.35 | 29.12 | 37.96 | 97.97 | 94.48 | 114.00 | -19.52 |

| | | | | | |
|------------------|--|---------------|--------|---------|------|
| Worse case mode: | | Test channel: | Lowest | Remark: | Peak |
|------------------|--|---------------|--------|---------|------|



Condition: 3m HORIZONTAL

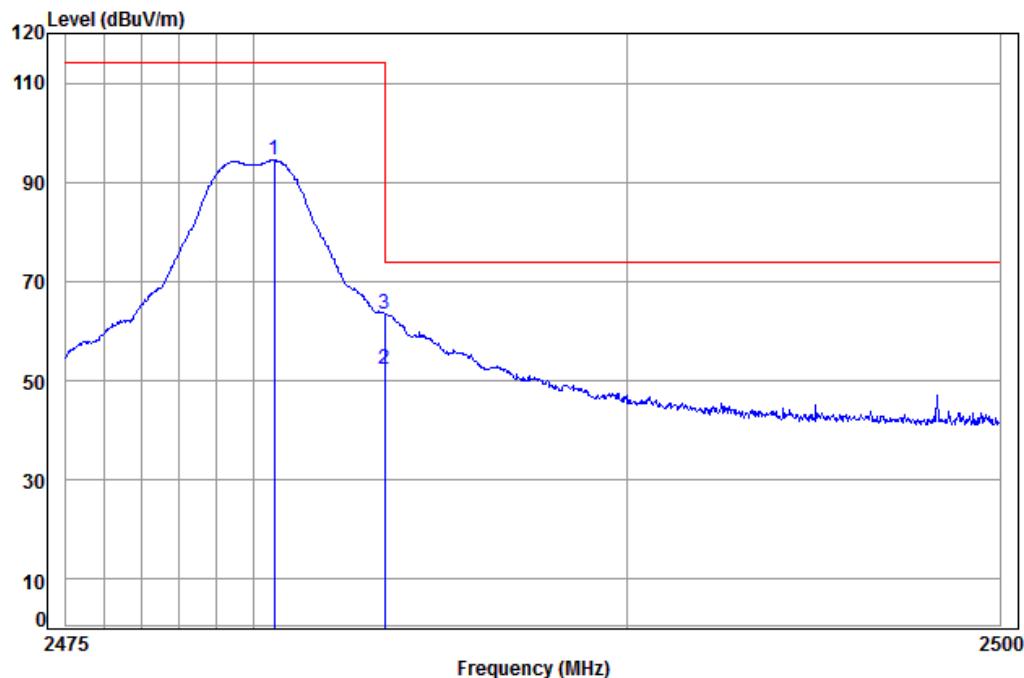
Job No: : 11090CR

Mode: : 2405 Bandedge

: Zigbee

| | Cable Freq | Ant Loss | Preamp Factor | Read Level | Limit Level | Over Line | Over Limit | Remark |
|------|---------------|-------------|------------------|---------------|----------------|--------------|---------------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2314.508 | 5.28 | 28.85 | 37.97 | 46.38 | 42.54 | 74.00 | -31.46 |
| 2 | 2390.000 | 5.34 | 29.08 | 37.96 | 45.92 | 42.38 | 74.00 | -31.62 |
| 3 pp | 2400.000 | 5.34 | 29.11 | 37.96 | 49.25 | 45.74 | 54.00 | -8.26 Average |
| 4 pk | 2400.000 | 5.34 | 29.11 | 37.96 | 60.24 | 56.73 | 74.00 | -17.27 Peak |
| 5 | 2404.491 | 5.35 | 29.12 | 37.96 | 99.19 | 95.70 | 114.00 | -18.30 |

| | | | | | |
|------------------|--|---------------|---------|---------|------|
| Worse case mode: | | Test channel: | Highest | Remark: | Peak |
|------------------|--|---------------|---------|---------|------|



Condition: 3m VERTICAL

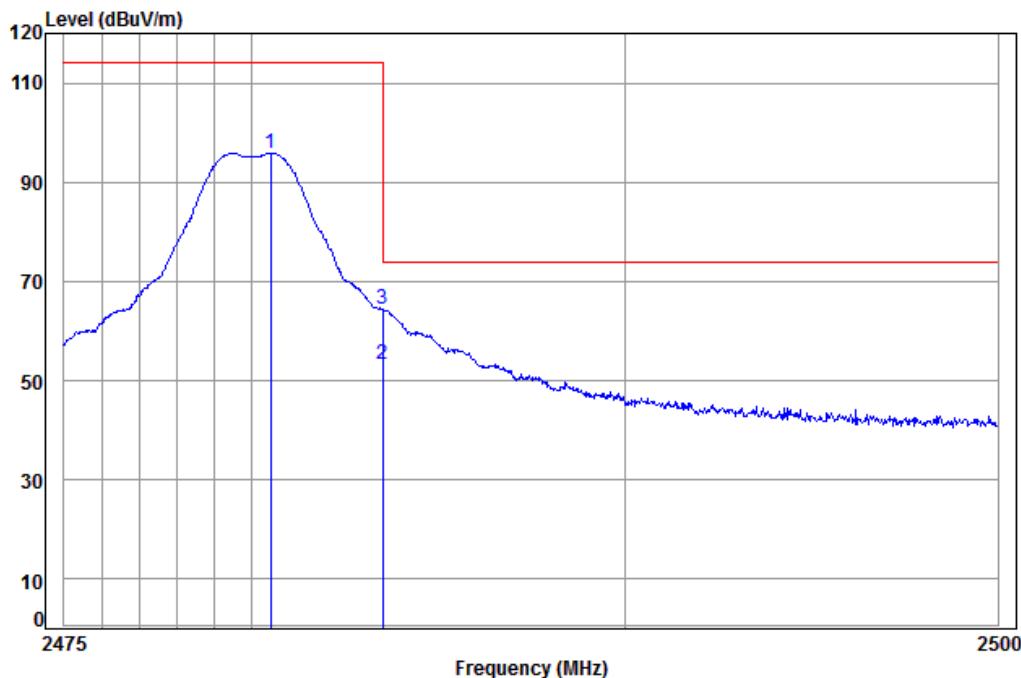
Job No. : 11090CR

Mode: : 2480 Bandedge

: Zigbee

| | Cable Freq | Ant Loss | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|------|---------------|-------------|------------------|---------------|----------------|---------------|---------------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2480.553 | 5.41 | 29.34 | 37.95 | 97.59 | 94.39 | 114.00 | -19.61 |
| 2 pp | 2483.500 | 5.41 | 29.35 | 37.95 | 55.59 | 52.40 | 54.00 | -1.60 Average |
| 3 pk | 2483.500 | 5.41 | 29.35 | 37.95 | 66.76 | 63.57 | 74.00 | -10.43 Peak |

| | | | | | |
|------------------|--|---------------|---------|---------|------|
| Worse case mode: | | Test channel: | Highest | Remark: | Peak |
|------------------|--|---------------|---------|---------|------|



Condition: 3m HORIZONTAL

Job No: : 11090CR

Mode: : 2480 Bandedge

: Zigbee

| | Cable Freq | Ant Loss | Preamp Factor | Read Level | Limit Level | Over Line | Over Limit | Remark |
|------|---------------|-------------|------------------|---------------|----------------|--------------|---------------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2480.503 | 5.41 | 29.34 | 37.95 | 99.06 | 95.86 | 114.00 | -18.14 |
| 2 pp | 2483.500 | 5.41 | 29.35 | 37.95 | 56.46 | 53.27 | 54.00 | -0.73 Average |
| 3 pk | 2483.500 | 5.41 | 29.35 | 37.95 | 67.70 | 64.51 | 74.00 | -9.49 Peak |

Note:

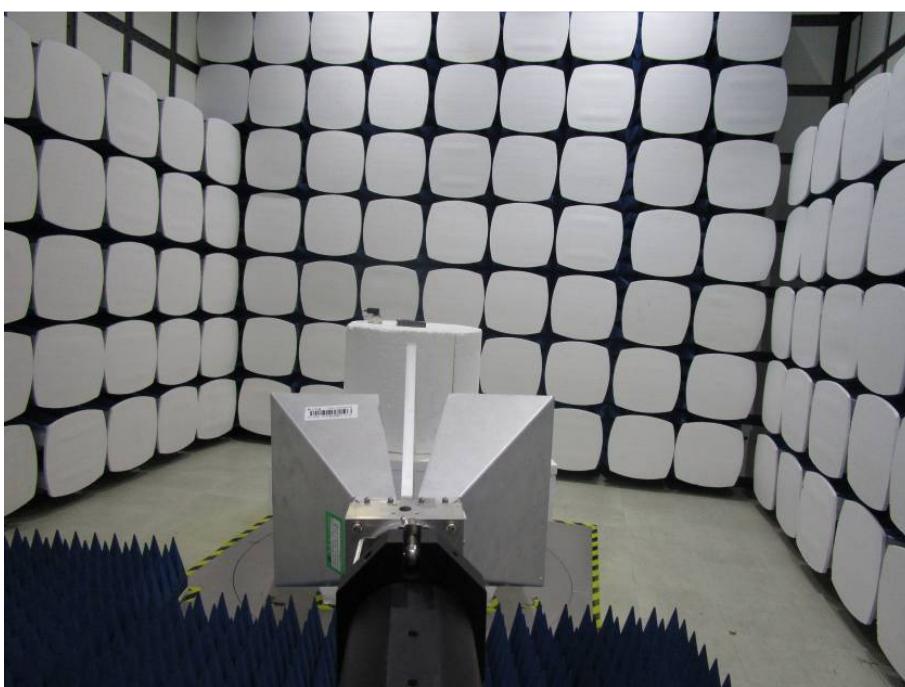
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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

7 Photographs

Test model No.: M30WL.11

7.1 Radiated Spurious Emission Test Setup



7.2 Conducted Emission Test Setup



7.3 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1804002458CR.

- End of the Report -