

TEST REPORT

Application No.: SZEM2002000861CR
Applicant: Develco Products
Address of Applicant: Olof Palmes Alle 40, Aarhus N, 8240 Denmark
Manufacturer: Develco Products
Address of Manufacturer: Olof Palmes Alle 40, Aarhus N, 8240 Denmark
Factory: GPV
Address of Factory: 834 Moo 4· Bangpoo Industrial Estate Soi 11, 12· Sukhumvit Road· Praksa· Muang· Samutprakarn· 10280· Thailand

Equipment Under Test (EUT):
EUT Name: Keypad
Model No.: KEPZB-110
Trade mark: Develco Products
FCC ID: 2AHNM-KEPZB110
Standard(s) : 47 CFR Part 15, Subpart C 15.225
Date of Receipt: 2020-04-28
Date of Test: 2020-05-07 to 2020-05-12
Date of Issue: 2020-05-13

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

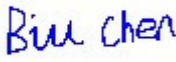

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2020-05-13 | | Original |
| | | | | |
| | | | | |

| | | | |
|---------------------------------|--|---|--|
| Authorized for issue by: | | | |
| | |  | |
| | | <hr/> Bill Chen /Project Engineer | |
| | |  | |
| | | <hr/> 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 15.225 | 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 15.225 | ANSI C63.10 (2013) Section 6.9 | 47 CFR Part 15, Subpart C 15.215 | Pass |
| Emission Mask | 47 CFR Part 15, Subpart C 15.225 | ANSI C63.10 (2013) Section 6.4 | 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C) | Pass |
| Frequency tolerance | 47 CFR Part 15, Subpart C 15.225 | ANSI C63.10 (2013) Section 6.8 | 47 CFR Part 15, Subpart C 15.225(e) | Pass |
| Radiated Emissions(9kHz-30MHz) | 47 CFR Part 15, Subpart C 15.225 | ANSI C63.10 (2013) Section 6.4&6.5 | 47 CFR Part 15, Subpart C 15.225(d) & 15.209 | Pass |
| Radiated Emissions(30MHz-1GHz) | 47 CFR Part 15, Subpart C 15.225 | ANSI C63.10 (2013) Section 6.4&6.5 | 47 CFR Part 15, Subpart C 15.225(d) & 15.209 | Pass |



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4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|-----------------------------------|
| Power Supply: | DC 6.0V by 1.5V x 4"AA" batteries |
| Operation Frequency: | 13.56MHz |
| Modulation Type: | ASK |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 1.5dBi |

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Occupied Bandwidth | ± 3% |
| 2 | Frequency tolerance | ± 3% |
| 3 | Radiated Spurious emission test | ± 4.5dB (Below 1GHz) |
| 4 | Temperature test | ± 1 °C |
| 5 | Humidity test | ± 3% |
| 6 | Supply voltages | ± 1.5% |
| 7 | Time | ± 3% |



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, 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**

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.

• **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

| 20dB Bandwidth | | | | | |
|--------------------------------------|----------------------|-------------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | SAEMC | MSR733 | SEM001-09 | 2019-06-13 | 2022-06-12 |
| DC Power Supply | Zhao Xin | KXN-6020D | SEM011-08 | 2019-09-24 | 2020-09-23 |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2019-09-24 | 2020-09-23 |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2. | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2019-07-11 | 2020-07-10 |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2019-09-24 | 2020-09-23 |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2019-09-24 | 2020-09-23 |
| Electric and Magnetic Field Analyzer | Narda | NBM-550/EHP-50F | EMC2143 | 2019-02-07 | 2020-02-06 |
| Electric Field Probe (100KHz-3GHz) | WANDEL & GOLTERMANN | EMR-20 | EMC0907 | 2019-05-21 | 2020-05-20 |
| EMF Tester | Narda | ELT-400 | SZE039-4 | 2019-07-08 | 2020-07-07 |

| Frequency tolerance | | | | | |
|--------------------------------------|----------------------|-------------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | SAEMC | MSR733 | SEM001-09 | 2019-06-13 | 2022-06-12 |
| DC Power Supply | Zhao Xin | KXN-6020D | SEM011-08 | 2019-09-24 | 2020-09-23 |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2019-09-24 | 2020-09-23 |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2. | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2019-07-11 | 2020-07-10 |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2019-09-24 | 2020-09-23 |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2019-09-24 | 2020-09-23 |
| Electric and Magnetic Field Analyzer | Narda | NBM-550/EHP-50F | EMC2143 | 2019-02-07 | 2020-02-06 |
| Electric Field Probe (100KHz-3GHz) | WANDEL & GOLTERMANN | EMR-20 | EMC0907 | 2019-05-21 | 2020-05-20 |
| EMF Tester | Narda | ELT-400 | SZE039-4 | 2019-07-08 | 2020-07-07 |

Radiated Emissions(9kHz-30MHz)

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|-----------|--------------|----------|--------------|----------|--------------|
|-----------|--------------|----------|--------------|----------|--------------|



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| | | | | | |
|---------------------------------------|----------------------|-----------------|-----------|------------|------------|
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2018-03-31 | 2021-03-30 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM029-01 | 2019-07-11 | 2020-07-10 |
| EMI Test Receiver (9kHz-7GHz) | Rohde & Schwarz | ESR | SEM004-03 | 2019-04-01 | 2020-03-31 |
| Trilog-Broadband Antenna (30MHz-1GHz) | Schwarzbeck | VULB9168 | SEM003-18 | 2019-08-08 | 2022-08-07 |
| Pre-amplifier | Sonoma Instrument Co | 310N | SEM005-04 | 2019-04-12 | 2020-04-11 |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |

| Radiated Emissions(30MHz-1GHz) | | | | | |
|---------------------------------------|----------------------|-----------------|---------------|------------|---------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2017-08-05 | 2020-08-04 |
| MXE EMI receiver(3Hz-3.6GHz) | KEYSIGHT | N9038A | SEM004-15 | 2019-12-16 | 2020-12-15 |
| BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 |
| Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEM005-01 | 2020-04-01 | 2021-03-31 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2019-07-11 | 2020-07-10 |



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| General used equipment | | | | | |
|---------------------------------|---|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2019-09-26 | 2020-09-25 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2019-09-26 | 2020-09-25 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2019-09-26 | 2020-09-25 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2020-04-07 | 2021-04-06 |



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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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 1.5dBi.



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7 Radio Spectrum Matter Test Results

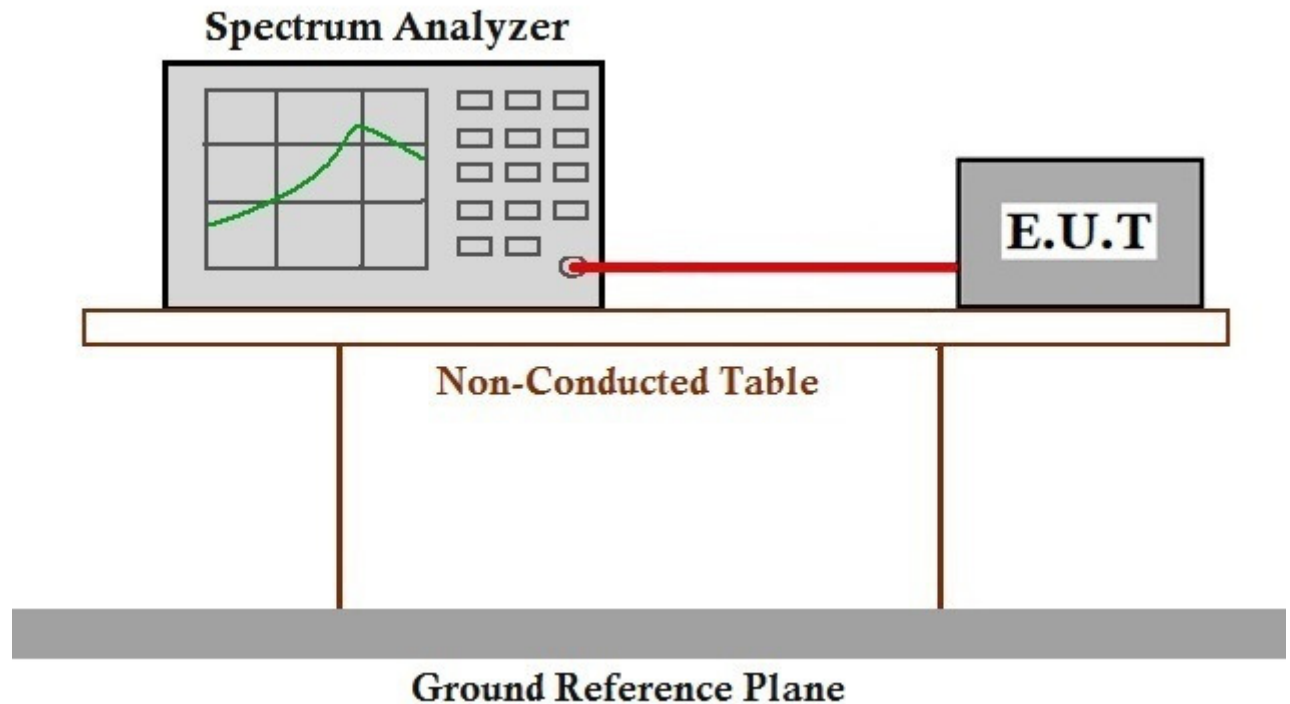
7.1 20dB Bandwidth

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: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar
Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

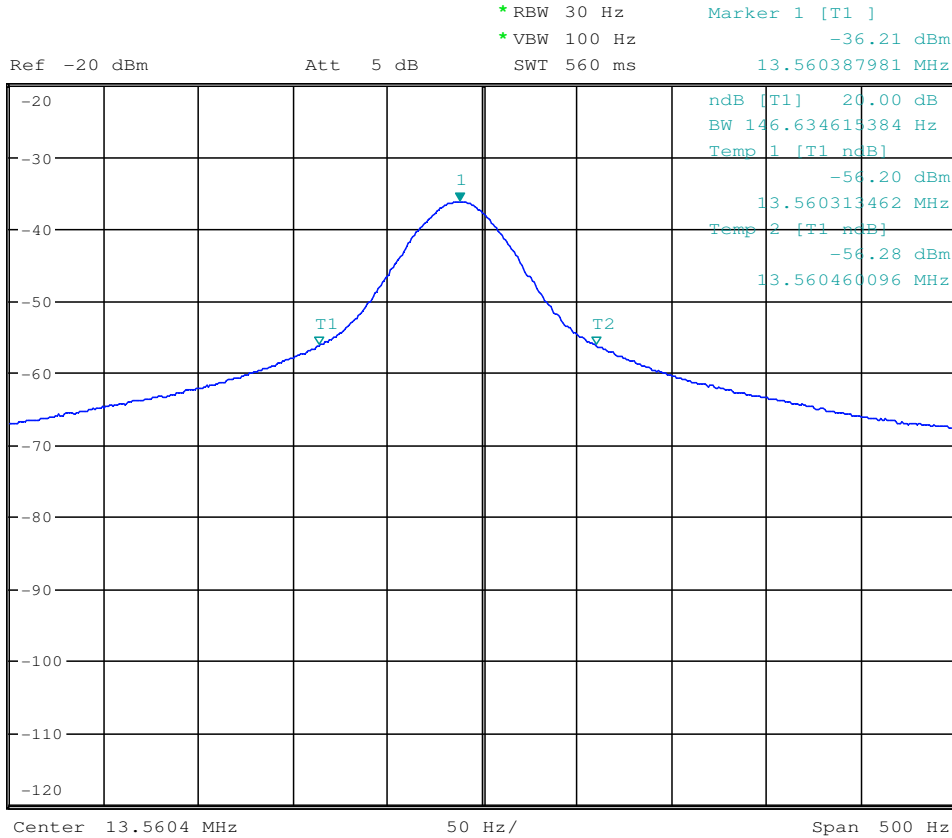
7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data



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7.2 Emission Mask

Test Requirement 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)
Test Method: ANSI C63.10 (2013) Section 6.4
Measurement Distance: 10m
Limit:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.



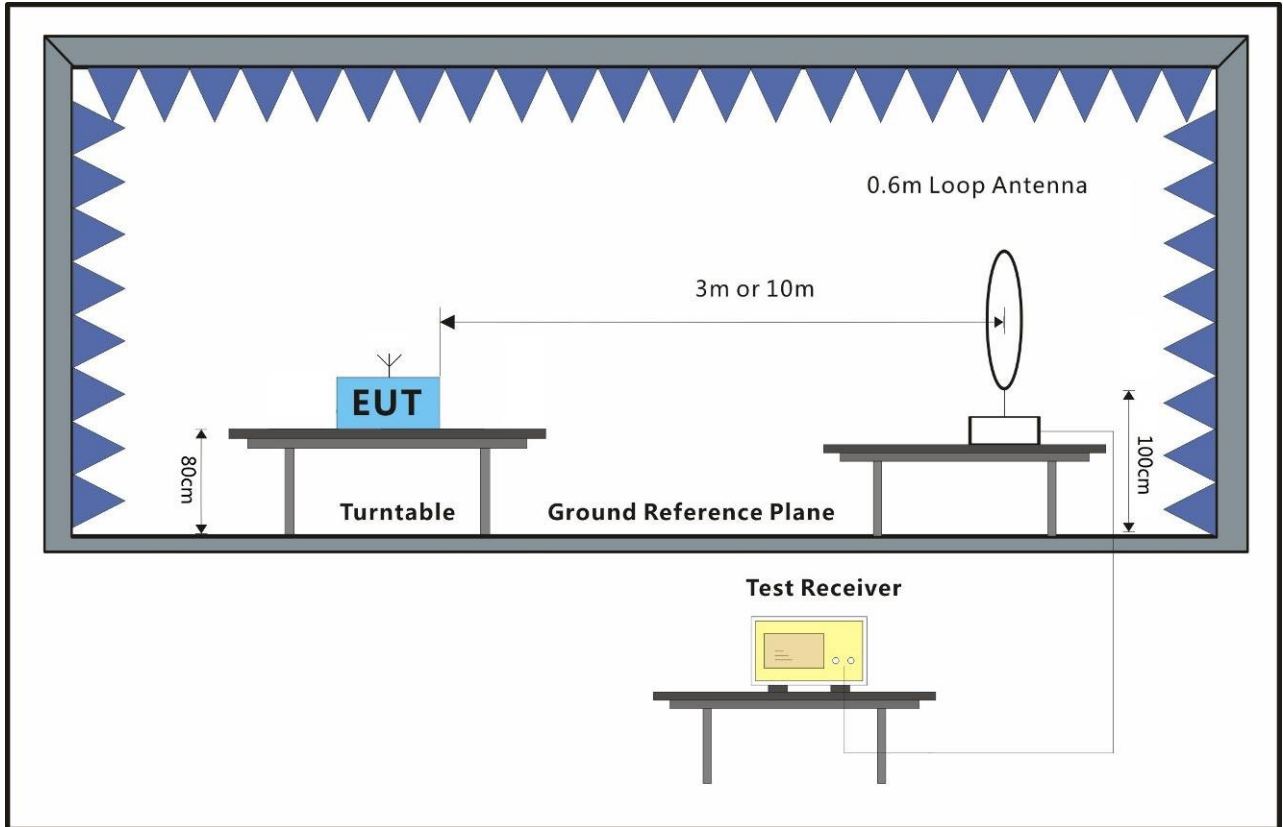
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7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.5 °C Humidity: 58 % RH Atmospheric Pressure: 1005 mbar
 Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram



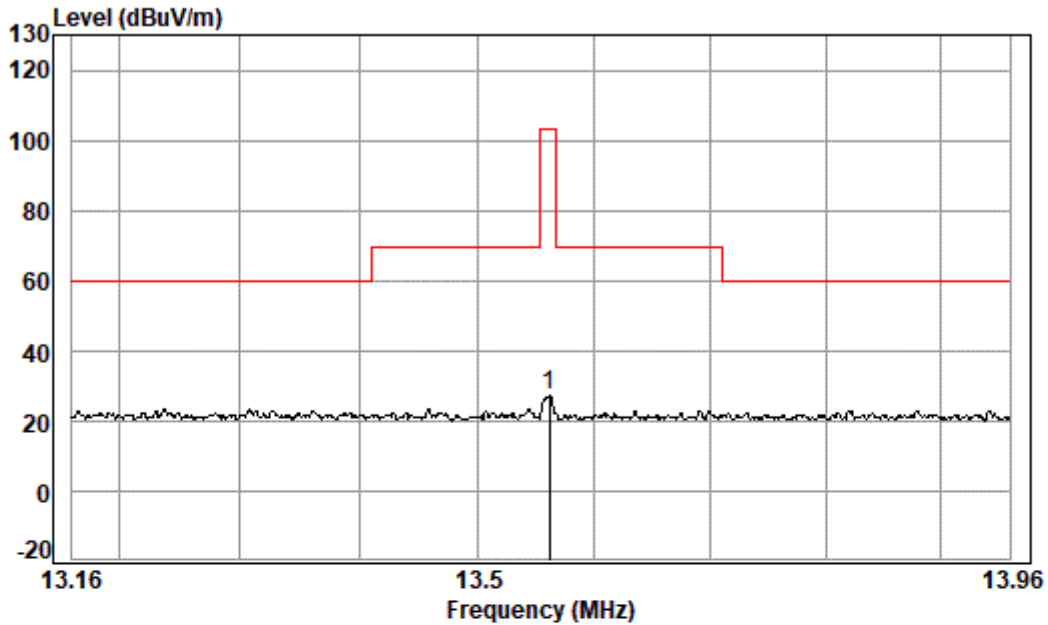
7.2.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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Mode b:



Condition: 10m
Job No. : 00861CR
Test Mode: b

| | Ant Freq | Preamp Factor | Cable Loss | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|------|----------|---------------|------------|------------|-------------|------------|------------|--------|
| | MHz | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 13.561 | 13.30 | 32.35 | 0.00 | 46.12 | 27.07 | 103.08 | -76.01 |



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Below 30MHz

The test was performed at a 10m test site.

The level at 30m test distance is below:

The factor calculated by the following equation:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

FS_{limit} is the calculation of field strength at the limit distance, expressed in dB μ V/m
 FS_{max} is the measured field strength, expressed in dB μ V/m
 d_{measure} is the distance of the measurement point from the EUT
 d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point

| Frequency (MHz) | Cable loss (dB) | ANT Factor (dB) | Preamp Factor (dB) | Read Level @ 10m (dB μ V) | Level @ 10m (dB μ V/m) | Level @ 30m (dB μ V/m) | Limit @ 30m (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------|--------------------|-------------------------------|----------------------------|----------------------------|----------------------------|-------------|
| 13.56 | 0 | 13.3 | 32.35 | 46.12 | 27.07 | 7.99 | 84.00 | -76.01 |



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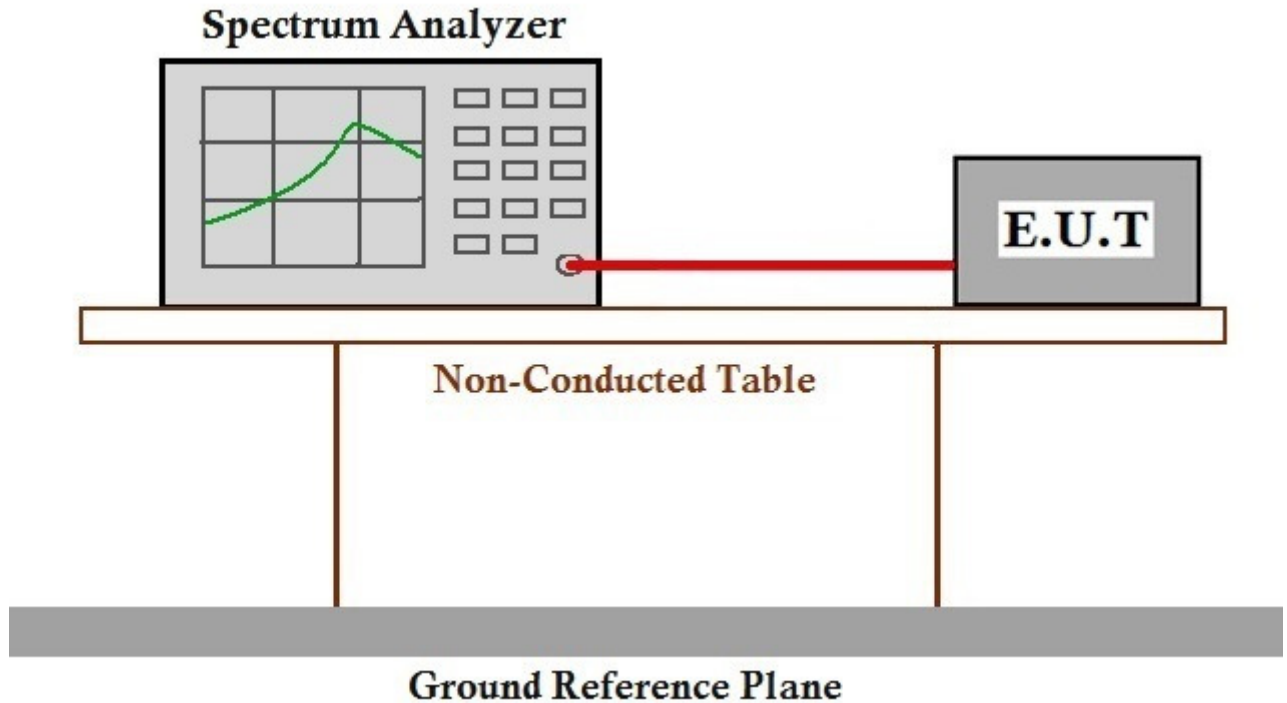
7.3 Frequency tolerance

Test Requirement 47 CFR Part 15, Subpart C 15.225(e)
Test Method: ANSI C63.10 (2013) Section 6.8
Limit: 1.356kHz

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar
Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data



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| | | |
|--------------------------|----------|-------------|
| Declared Frequency (MHz) | 13.56MHz | @10 minutes |
|--------------------------|----------|-------------|

| Temperature (°C) | Voltage(VDC) | Measurement Frequency(MHz) | Frequency Tolerance (%) | Limit (%) | Result |
|------------------|--------------|----------------------------|-------------------------|-----------|--------|
| 50 | 3.7 | 13.5601 | 0.0007 | ±0.01 | Pass |
| 40 | | 13.5602 | 0.0015 | | Pass |
| 30 | | 13.5601 | 0.0007 | | Pass |
| 20 | | 13.5602 | 0.0015 | | Pass |
| 10 | | 13.5601 | 0.0007 | | Pass |
| 0 | | 13.5602 | 0.0015 | | Pass |
| -10 | | 13.5602 | 0.0015 | | Pass |
| -20 | | 13.5602 | 0.0015 | | Pass |
| 20 | 4.2 | 13.5601 | 0.0007 | | Pass |
| | 3.3 | 13.5601 | 0.0007 | | Pass |



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7.4 Radiated Emissions(9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209
 Test Method: ANSI C63.10 (2013) Section 6.4&6.5
 Measurement Distance: 10m
 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 |

Below 30MHz

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\} \quad (4)$$



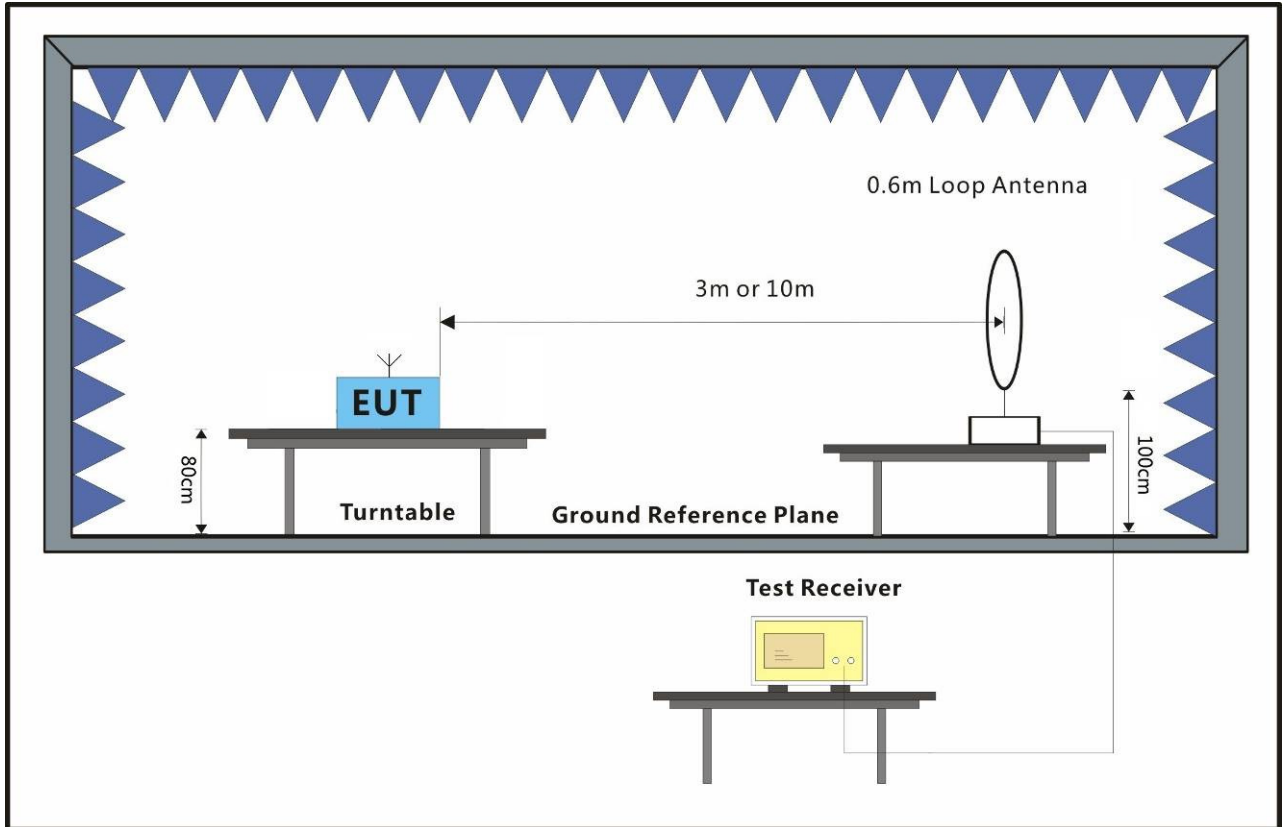
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7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar
 Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram



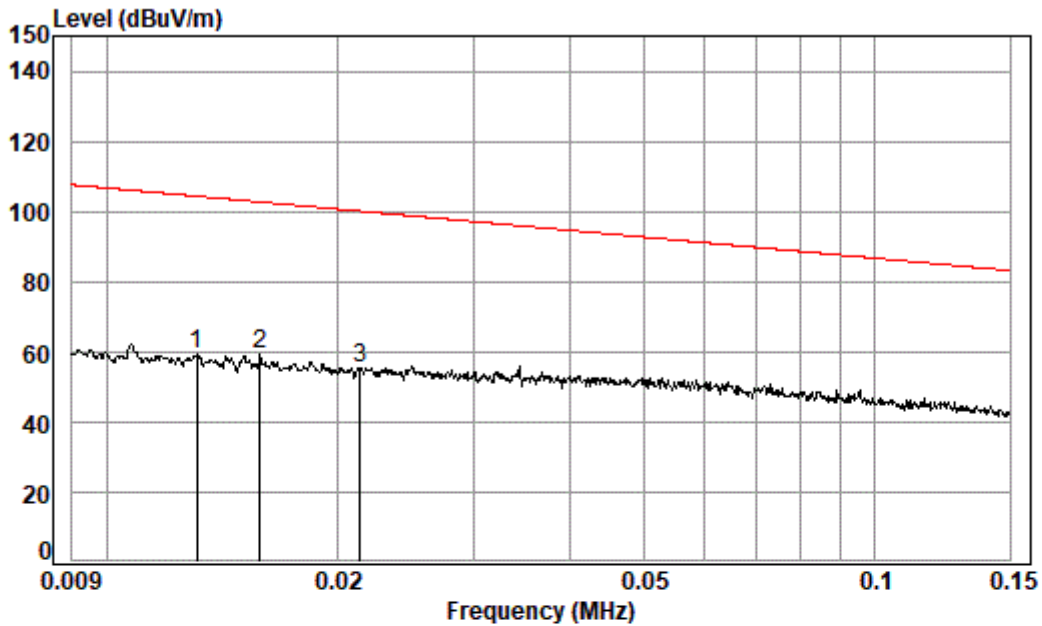
7.4.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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9kHz-150kHz
Mode:b



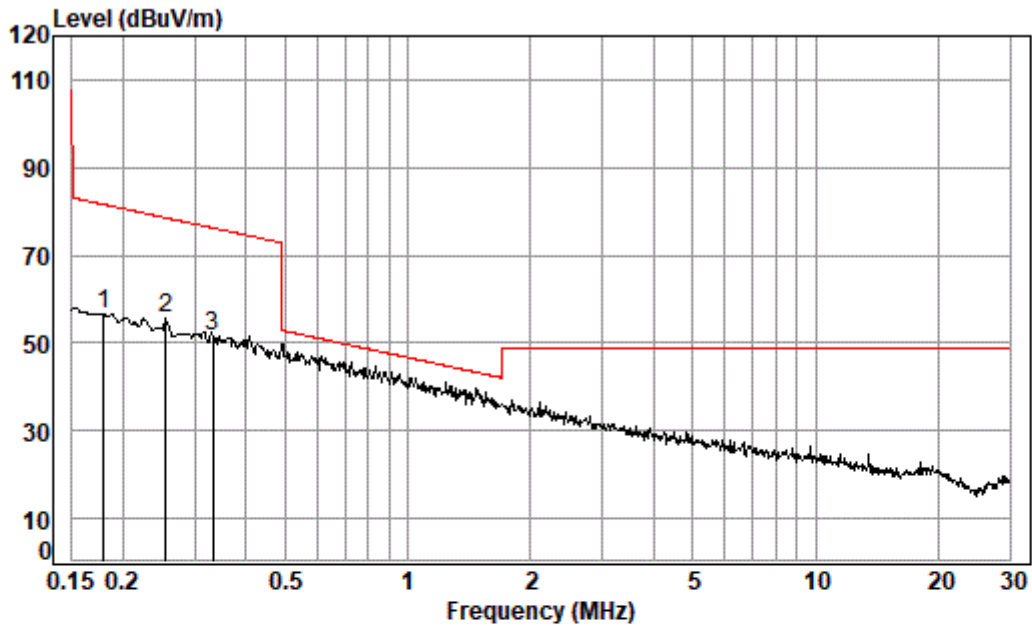
Condition: 10m
Job No. : 00861CR
Test Mode: b

| | Ant Freq | Preamp Factor | Cable Factor | Cable Loss | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|------|----------|---------------|--------------|------------|------------|-------------|------------|------------|---------|
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 0.013 | 19.39 | 30.82 | 0.55 | 70.38 | 59.50 | 104.35 | -44.85 | Average |
| 2 pp | 0.016 | 18.31 | 30.95 | 0.30 | 71.48 | 59.14 | 102.69 | -43.55 | Average |
| 3 | 0.021 | 16.76 | 31.15 | 0.16 | 69.69 | 55.46 | 100.10 | -44.64 | Average |



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150kHz-30MHz
Mode:b



Condition: 10m
Job No. : 00861CR
Test Mode: b

| | Ant Freq | Preamp Factor | Cable Factor | Cable Loss | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|------|----------|---------------|--------------|------------|------------|-------------|------------|------------|---------|
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 0.180 | 13.92 | 32.21 | 0.02 | 75.07 | 56.80 | 81.60 | -24.80 | Average |
| 2 pp | 0.255 | 13.84 | 32.22 | 0.03 | 73.80 | 55.45 | 78.57 | -23.12 | Average |
| 3 | 0.332 | 13.80 | 32.23 | 0.04 | 70.00 | 51.61 | 76.26 | -24.65 | Average |



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7.5 Radiated Emissions(30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209
 Test Method: ANSI C63.10 (2013) Section 6.4&6.5
 Measurement Distance: 3m
 Limit:

| Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
|---------------|----------------------------------|----------------|------------|--------------------------|
| 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 |



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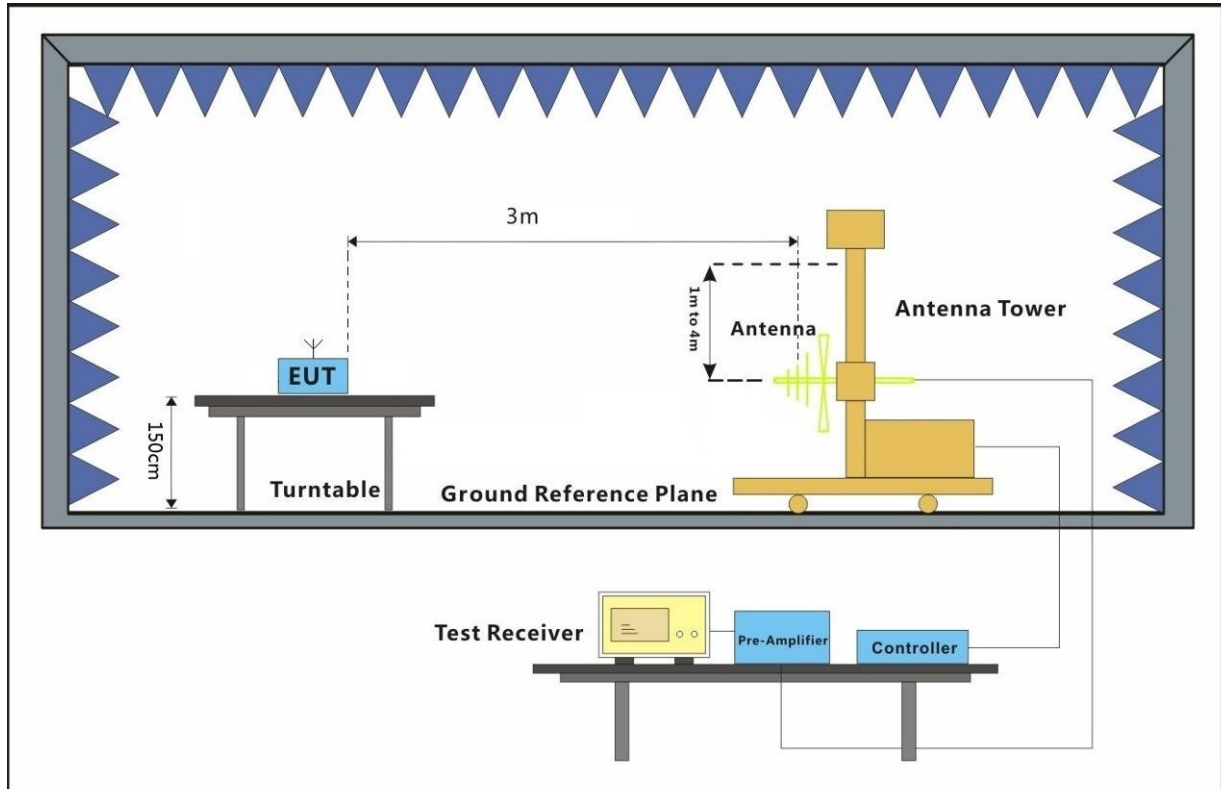
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26.5 °C Humidity: 60 % RH Atmospheric Pressure: 1005 mbar

Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

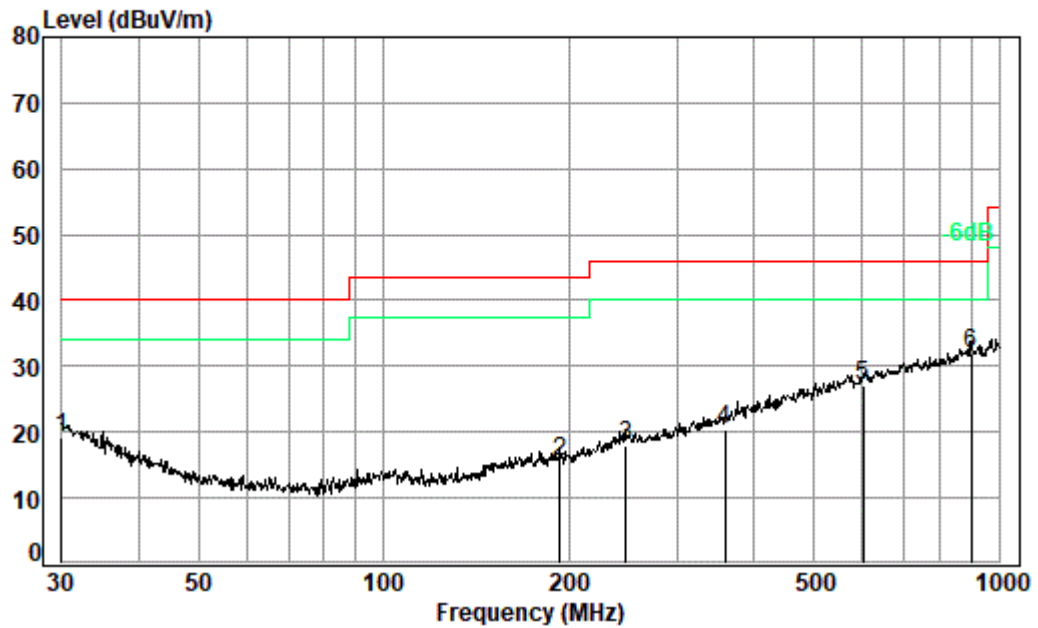
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Mode:b; Polarization:Horizontal



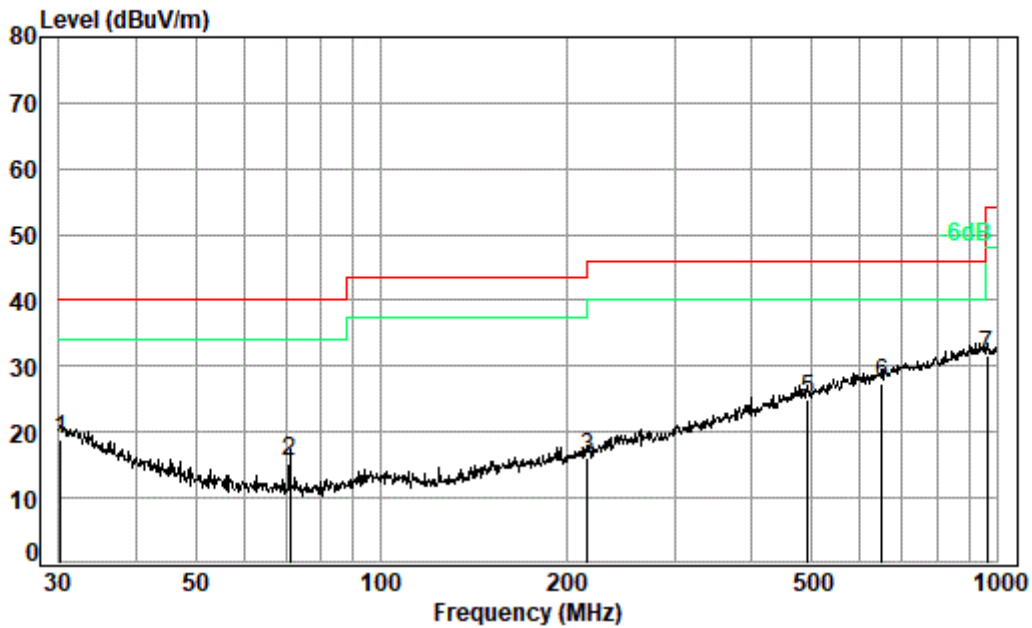
Condition: 3m HORIZONTAL
Job No. : 00861CR
Test Mode: b

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|------|--------|------------|------------|---------------|------------|-------------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 30.00 | 0.60 | 22.50 | 27.73 | 23.89 | 19.26 | 40.00 | -20.74 | QP |
| 2 | 193.77 | 1.39 | 16.32 | 27.19 | 25.07 | 15.59 | 43.50 | -27.91 | QP |
| 3 | 247.68 | 1.66 | 18.92 | 27.02 | 24.47 | 18.03 | 46.00 | -27.97 | QP |
| 4 | 359.19 | 2.09 | 21.35 | 27.22 | 24.18 | 20.40 | 46.00 | -25.60 | QP |
| 5 | 601.43 | 2.70 | 26.62 | 28.17 | 25.80 | 26.95 | 46.00 | -19.05 | QP |
| 6 pp | 900.15 | 3.60 | 29.80 | 27.29 | 25.79 | 31.90 | 46.00 | -14.10 | QP |



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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL
Job No. : 00861CR
Test Mode: b

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|------|--------|------------|------------|---------------|------------|-------------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 30.21 | 0.60 | 22.38 | 27.73 | 23.65 | 18.90 | 40.00 | -21.10 | QP |
| 2 | 71.08 | 0.83 | 12.71 | 27.67 | 29.53 | 15.40 | 40.00 | -24.60 | QP |
| 3 | 216.78 | 1.50 | 17.09 | 27.11 | 24.58 | 16.06 | 46.00 | -29.94 | QP |
| 4 | 465.60 | 2.47 | 23.90 | 27.70 | 498.67 | 500.00 | 46.00 | -546.00 | QP |
| 5 | 492.47 | 2.57 | 24.45 | 27.81 | 25.82 | 25.03 | 46.00 | -20.97 | QP |
| 6 pp | 649.66 | 2.80 | 27.27 | 28.05 | 25.42 | 27.44 | 46.00 | -18.56 | QP |
| 7 | 965.54 | 3.67 | 30.13 | 27.04 | 24.84 | 31.60 | 54.00 | -22.40 | QP |



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8 Photographs

8.1 Test Setup

Please refer to setup photo.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.

- End of the Report -

