

TEST REPORT

Application No.: FYCR2204000053AT
Applicant: Spigen Korea Co., Ltd.
Address of Applicant: Spigen HQ-A, 446, Bongeunsa-ro, Gangnam-gu, Seoul, 06153, South Korea
Manufacturer: Spigen Korea Co., Ltd.
Address of Manufacturer: Spigen HQ-A, 446, Bongeunsa-ro, Gangnam-gu, Seoul, 06153, South Korea
Factory: Spigen Korea Co., Ltd.
Address of Factory: Spigen HQ-A, 446, Bongeunsa-ro, Gangnam-gu, Seoul, 06153, South Korea
Equipment Under Test (EUT):
EUT Name: OneTap SmartLock Noiseless Wireless Car Charger for Galaxy Z Fold
Model No.: GTS12W
Trade Mark: 
FCC ID : 2AFKNGTS12W
Standard(s) : 47 CFR Part 15, Subpart C
Date of Receipt: 2022-04-06
Date of Test: 2022-04-09 to 2022-06-02
Date of Issue: 2022-06-06

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



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

Kidd Yang
EMC Laboratory Manager



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

| | | | |
|---------------------------------|--|--|--|
| Authorized for issue by: | | | |
| | |  <hr/> Tree Zhan/Project Engineer | |
| | |  <hr/> Winkey Wang/Reviewer | |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--------------------------------------|---------------------------|--------|----------------------------------|--------|
| Item | Standard | Method | Requirement | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C | N/A | 47 CFR Part 15, Subpart C 15.203 | Pass |

| Radio Spectrum Matter Part | | | | |
|---------------------------------|---------------------------|-----------------------------------|---|--------|
| Item | Standard | Method | Requirement | Result |
| Radiated Emissions (30MHz-1GHz) | 47 CFR Part 15, Subpart C | ANSI C63.10 (2013) Section 6.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Emissions (9kHz-30MHz) | | ANSI C63.10 (2013) Section 6.4 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| 20dB Bandwidth | | ANSI C63.10 (2013) Section 6.9.2 | 47 CFR Part 15, Subpart C 15.215 | Pass |
| Restricted Bands | | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205 | Pass |



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4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|---|
| Power supply: | Powered by car charger with Model:GTS12W Input:DC12-24V Output:DC5V,3A; DC9V,2A;DC12V,1.5A |
| Cable(s): | Type-C cable: 145cm unshielded |
| Output Power: | 5W/7.5W/10W/15W |
| Operation frequency: | 110.4KHz-136.6KHz |
| Modulation type: | Load modulation |
| Antenna type: | Loop Antenna |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|--------------|--------------|-----------|------------------|
| Mobile Phone | Nexus | MRA58K | REF. No.SEA16P00 |
| iPhone 8 | Apple | A1863 | REF. No.SEA16J00 |
| Mobile Phone | SAMSUNG | SM-G9810 | REF. No.SEA16K00 |
| Mobile Phone | SAMSUNG | SM-G9500 | REF. No.SEA16J00 |

4.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

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

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

No tests were sub-contracted.



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4.4 Test Facility

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

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

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

- **FCC –Designation Number: CN1322**

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

Designation Number: CN1322. Test Firm Registration Number: 718073

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

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

CAB identifier: CN0129.

IC#: 28189.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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5 Equipment List

| 20dB Bandwidth | | | | | |
|--|------------------------------|---------------|--------------|-----------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2021/7/13 | 2022/7/12 |
| MXA Signal Analyzer | Agilent | N9020A | SEM004-20 | 2021/7/13 | 2022/7/12 |
| Signal Generator | Agilent | N5173B | SEM006-05 | 2021/7/13 | 2022/7/12 |
| ESG Vector Signal Generator | Agilent | E4438C | SEM006-15 | 2021/7/13 | 2022/7/12 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-15 | 2021/7/13 | 2022/7/12 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-16 | 2021/7/13 | 2022/7/12 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW 500 | SEM010-08 | 2021/7/13 | 2022/7/12 |
| Programmable DC Source | Chroma | 62024P-80-60 | SEM011-09 | 2021/7/13 | 2022/7/12 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2021/7/13 | 2022/7/12 |
| Electric and Magnetic Field Probe - Analyzer | Narda | EHP-200AC | SEM022-20 | 2022/4/2 | 2023/4/1 |

| Restricted band | | | | | |
|--|------------------------------|---------------|--------------|-----------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2021/7/13 | 2022/7/12 |
| MXA Signal Analyzer | Agilent | N9020A | SEM004-20 | 2021/7/13 | 2022/7/12 |
| Signal Generator | Agilent | N5173B | SEM006-05 | 2021/7/13 | 2022/7/12 |
| ESG Vector Signal Generator | Agilent | E4438C | SEM006-15 | 2021/7/13 | 2022/7/12 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-15 | 2021/7/13 | 2022/7/12 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-16 | 2021/7/13 | 2022/7/12 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW 500 | SEM010-08 | 2021/7/13 | 2022/7/12 |
| Programmable DC Source | Chroma | 62024P-80-60 | SEM011-09 | 2021/7/13 | 2022/7/12 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2021/7/13 | 2022/7/12 |
| Electric and Magnetic Field Probe - Analyzer | Narda | EHP-200AC | SEM022-20 | 2022/4/2 | 2023/4/1 |



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| Radiated emission(30MHz-1GHz) | | | | | |
|--|------------------------------------|-------------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2022/7/12 |
| Trilog-Broadband Antenna(25MHz-2GHz) | Schwarzbeck | VULB9168 | SEM003-33 | 2021/9/25 | 2024/9/24 |
| Biconical Antenna(150MHz-1GHz) | Schwarzbeck | VUBA9117 | SEM003-35 | 2021/12/26 | 2024/12/25 |
| Loop Antenna(9kHz-30MHz) | ETS-LINDGREN | 6502 | SEM003-36 | 2021/9/26 | 2024/9/25 |
| MXE EMI receiver(20Hz-8.4GHz) | Agilent | N9038A | SEM004-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier (0.1-1.3GHz) | HP | 8447D | SEM005-02 | 2021/7/13 | 2022/7/12 |
| Broad-Band Horn Antenna (15-40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2021/7/11 | 2024/7/10 |
| Broad-Band Horn Antenna (1-18GHz) | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021/9/26 | 2024/9/25 |
| Double-ridged waveguide horn (1-18GHz) | ETS-LINDGREN | 3117 | SEM003-34 | 2021/9/25 | 2024/9/24 |
| Spectrum Analyzer(20Hz-43GHz) | Rohde & Schwarz | 101288 | SEM004-08 | 2021/7/13 | 2022/7/12 |
| Low Noise Amplifier(100MHz-18GHz) | CLAVIO | BDLNA-0118-352810 | SEM005-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier(26GHz-40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier(18GHz-26GHz) | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2021/7/13 | 2022/7/12 |

| Radiated emissions(9KHz-30MHz) | | | | | |
|---------------------------------------|---------------------|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2022/7/12 |
| Trilog-Broadband Antenna(25MHz-2GHz) | Schwarzbeck | VULB9168 | SEM003-33 | 2021/9/25 | 2024/9/24 |
| Biconical Antenna(150MHz-1GHz) | Schwarzbeck | VUBA9117 | SEM003-35 | 2021/12/26 | 2024/12/25 |
| Loop Antenna(9kHz-30MHz) | ETS-LINDGREN | 6502 | SEM003-36 | 2021/9/26 | 2024/9/25 |
| MXE EMI receiver(20Hz-8.4GHz) | Agilent | N9038A | SEM004-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier (0.1- | HP | 8447D | SEM005-02 | 2021/7/13 | 2022/7/12 |



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Shenzhen Branch

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| | | | | | |
|--|------------------------------------|-------------------|-----------|-----------|-----------|
| 1.3GHz) | | | | | |
| Broad-Band Horn Antenna (15-40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2021/7/11 | 2024/7/10 |
| Broad-Band Horn Antenna (1-18GHz) | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021/9/26 | 2024/9/25 |
| Double-ridged waveguide horn (1-18GHz) | ETS-LINDGREN | 3117 | SEM003-34 | 2021/9/25 | 2024/9/24 |
| Spectrum Analyzer(20Hz-43GHz) | Rohde & Schwarz | 101288 | SEM004-08 | 2021/7/13 | 2022/7/12 |
| Low Noise Amplifier(100MHz-18GHz) | CLAVIO | BDLNA-0118-352810 | SEM005-05 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier(26GHz-40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2021/7/13 | 2022/7/12 |
| Pre-amplifier(18GHz-26GHz) | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2021/7/13 | 2022/7/12 |

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



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

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.

Refer to internal photos



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7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2013) Section 6.5
 Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 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.

7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

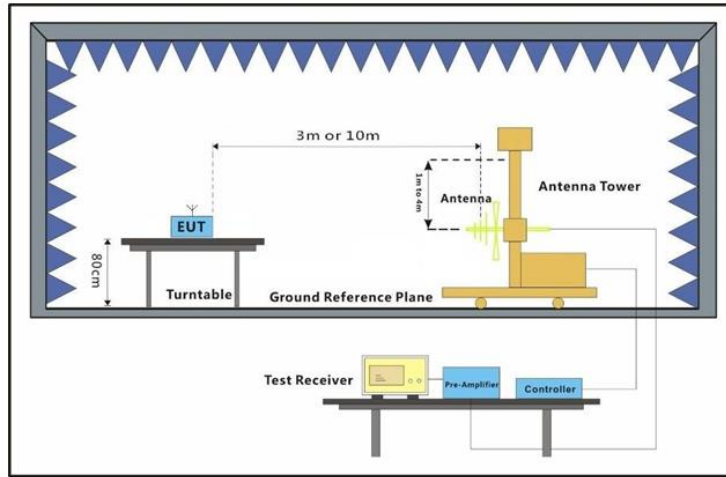
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Pre-scan | 00 | Charge mode_Keep the EUT charging(5W),Input 12V DC |
| Pre-scan | 01 | Charge mode_Keep the EUT charging(7.5W),Input 12V DC |
| Pre-scan | 02 | Charge mode_Keep the EUT charging(10W),Input 12V DC |
| Pre-scan | 03 | Charge mode_Keep the EUT charging(15W),Input 12V DC |
| Pre-scan | 04 | Charge mode_Keep the EUT charging(5W),Input 24V DC |
| Pre-scan | 05 | Charge mode_Keep the EUT charging(7.5W),Input 24V DC |
| Pre-scan | 06 | Charge mode_Keep the EUT charging(10W),Input 24V DC |
| Final test | 07 | Charge mode_Keep the EUT charging(15W),Input 24V DC |



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7.1.3 Test Setup Diagram



7.1.4 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 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. Test the EUT in the lowest channel, the middle channel, the Highest channel
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.

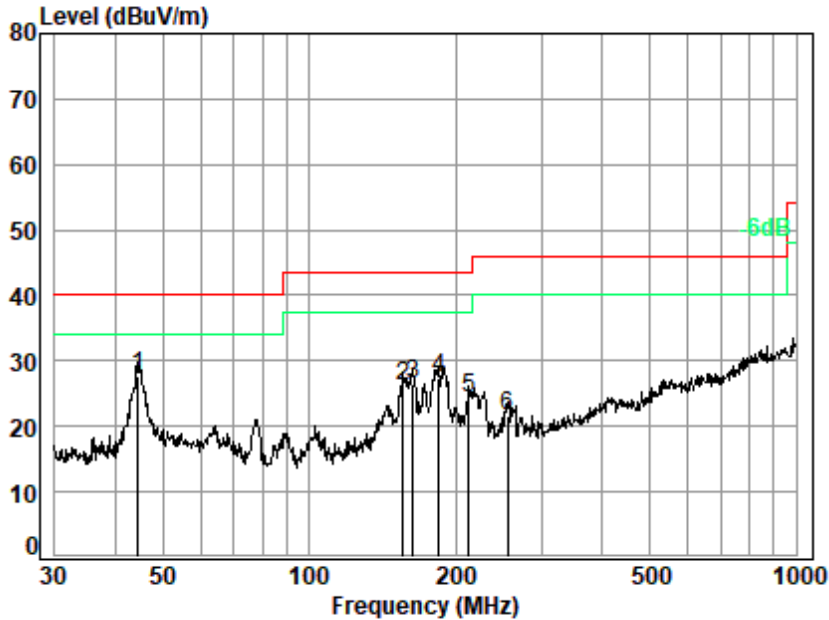
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 07; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00053AT
Mode : 07

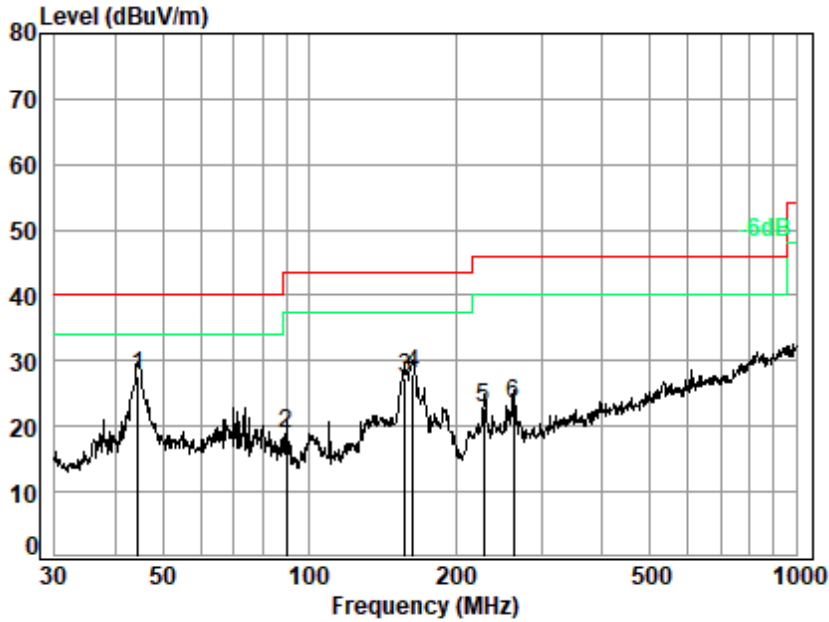
| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|-------------|-----------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 p | 44.4308 | 0.21 | 17.29 | 25.87 | 36.04 | 27.67 | 40.00 | -12.33 | QP |
| 2 | 155.9101 | 0.81 | 17.30 | 25.52 | 33.55 | 26.14 | 43.50 | -17.36 | QP |
| 3 | 163.1818 | 0.77 | 17.11 | 25.49 | 34.16 | 26.55 | 43.50 | -16.95 | QP |
| 4 | 184.4898 | 0.67 | 15.86 | 25.41 | 36.11 | 27.23 | 43.50 | -16.27 | QP |
| 5 | 213.0151 | 0.73 | 15.62 | 25.32 | 33.26 | 24.29 | 43.50 | -19.21 | QP |
| 6 | 255.6231 | 0.84 | 16.79 | 25.20 | 29.23 | 21.66 | 46.00 | -24.34 | QP |



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Test Mode: 07; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00053AT
Mode : 07

| | 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 p | 44.5868 | 0.21 | 17.29 | 25.87 | 36.09 | 27.72 | 40.00 | -12.28 | QP |
| 2 | 89.9047 | 0.67 | 13.61 | 25.81 | 30.49 | 18.96 | 43.50 | -24.54 | QP |
| 3 | 157.5589 | 0.80 | 17.26 | 25.51 | 34.90 | 27.45 | 43.50 | -16.05 | QP |
| 4 | 163.1818 | 0.77 | 17.11 | 25.49 | 35.62 | 28.01 | 43.50 | -15.49 | QP |
| 5 | 228.4904 | 0.77 | 16.01 | 25.27 | 31.29 | 22.80 | 46.00 | -23.20 | QP |
| 6 | 262.8955 | 0.87 | 16.91 | 25.18 | 30.82 | 23.42 | 46.00 | -22.58 | QP |



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7.2 Radiated Emissions (9kHz-30MHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4

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 |

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. 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.

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):

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

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where f_{MHz} is the frequency of the emission being measured in MHz.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1020 mbar



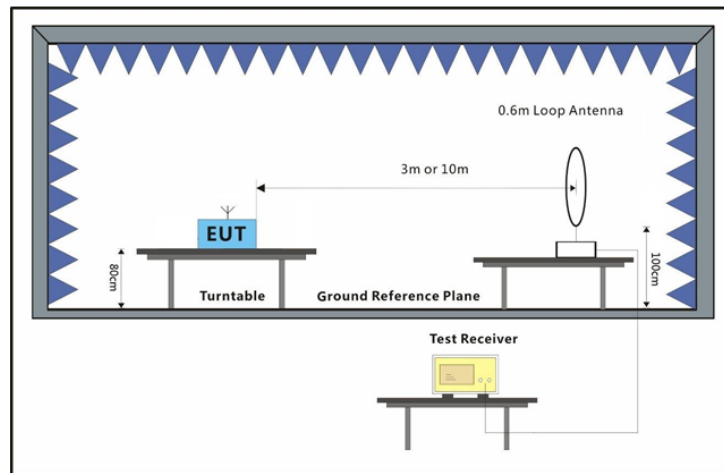
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7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Pre-scan | 00 | Charge mode_Keep the EUT charging(5W),Input 12V DC |
| Pre-scan | 01 | Charge mode_Keep the EUT charging(7.5W),Input 12V DC |
| Pre-scan | 02 | Charge mode_Keep the EUT charging(10W),Input 12V DC |
| Pre-scan | 03 | Charge mode_Keep the EUT charging(15W),Input 12V DC |
| Pre-scan | 04 | Charge mode_Keep the EUT charging(5W),Input 24V DC |
| Pre-scan | 05 | Charge mode_Keep the EUT charging(7.5W),Input 24V DC |
| Pre-scan | 06 | Charge mode_Keep the EUT charging(10W),Input 24V DC |
| Final test | 07 | Charge mode_Keep the EUT charging(15W),Input 24V DC |

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

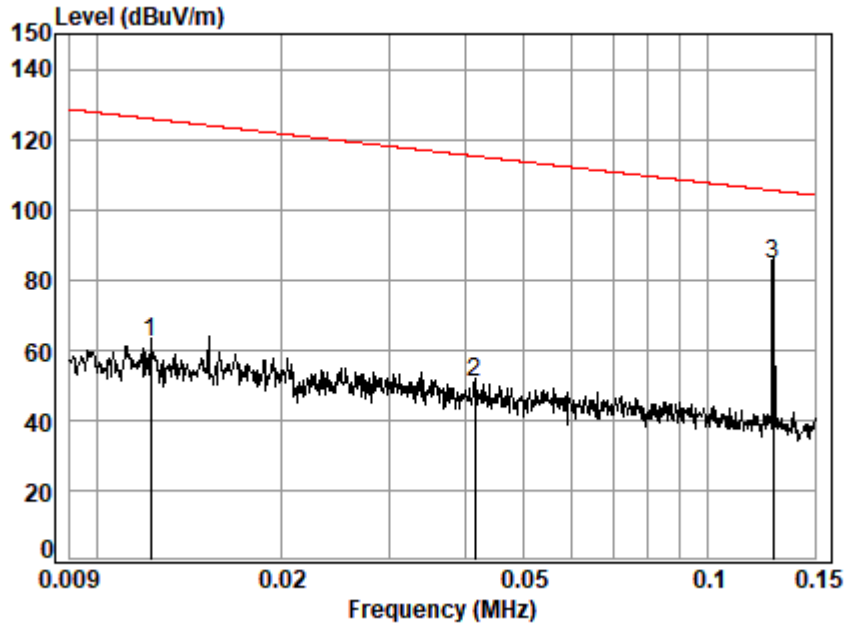
- a. All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.
- b. For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:
 - i. its centre shall be at 1.3 m height above the ground plane;
 - ii. the projection of its centre onto the ground plane shall be at the specified measurement distance from the projection on the ground plane of the closest point on the boundary of the equipment under test (EUT); and
 - iii. measurements shall be performed with the loop antenna placed vertically, in turn, in two polarizations (the measurement axis specified below is the line segment connecting the projections on the ground plane of the centre of the loop antenna and the centre of the EUT arrangement):
 - coaxial (loop plane perpendicular to the ground plane and to the measurement axis); and
 - coplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis).



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Test Mode: 07



Condition: 3m

Job No. : 00053AT

Test Mode: 07

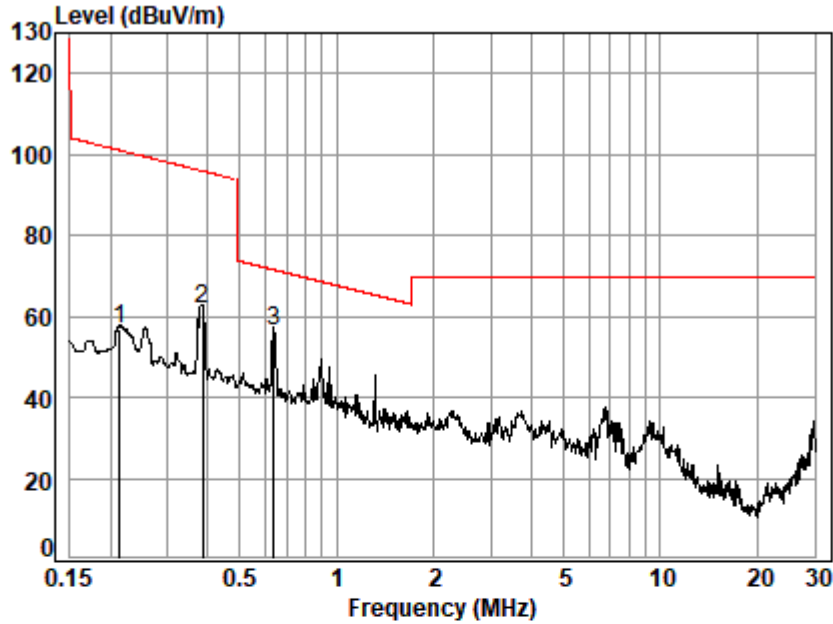
| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|-----|--------|------------|------------|---------------|------------|-------------|------------|------------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 0.0122 | 0.29 | 16.94 | 31.62 | 76.69 | 62.30 | 125.88 | -63.58 | Average |
| 2 | 0.0415 | 0.31 | 11.30 | 31.72 | 71.13 | 51.02 | 115.25 | -64.23 | Average |
| 3 p | 0.1281 | 0.33 | 10.43 | 31.79 | 105.45 | 84.42 | 105.45 | -21.03 | Average |



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Test Mode: 07



Condition: 3m

Job No. : 00053AT

Test Mode: 07

| | 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 | 0.2139 | 0.30 | 10.36 | 31.77 | 78.03 | 56.92 | 101.00 | -44.08 | Average |
| 2 a | 0.3852 | 0.32 | 10.31 | 31.74 | 83.04 | 61.93 | 95.89 | -33.96 | Average |
| 3 p | 0.6372 | 0.29 | 10.29 | 31.72 | 77.40 | 56.26 | 71.52 | -15.26 | QP |



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7.3 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10 (2013) Section 6.9.2
 Limit:

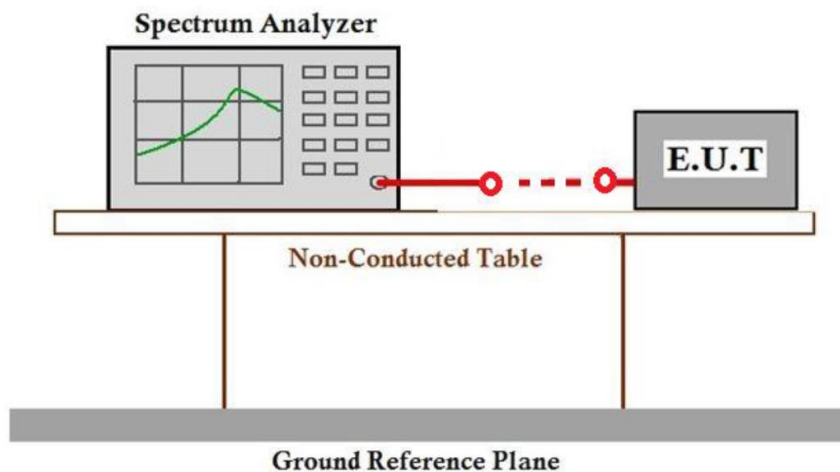
7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.8 °C Humidity: 59.6 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Pre-scan | 00 | Charge mode_Keep the EUT charging(5W),Input 12V DC |
| Pre-scan | 01 | Charge mode_Keep the EUT charging(7.5W),Input 12V DC |
| Pre-scan | 02 | Charge mode_Keep the EUT charging(10W),Input 12V DC |
| Pre-scan | 03 | Charge mode_Keep the EUT charging(15W),Input 12V DC |
| Pre-scan | 04 | Charge mode_Keep the EUT charging(5W),Input 24V DC |
| Pre-scan | 05 | Charge mode_Keep the EUT charging(7.5W),Input 24V DC |
| Pre-scan | 06 | Charge mode_Keep the EUT charging(10W),Input 24V DC |
| Final test | 07 | Charge mode_Keep the EUT charging(15W),Input 24V DC |

7.3.3 Test Setup Diagram



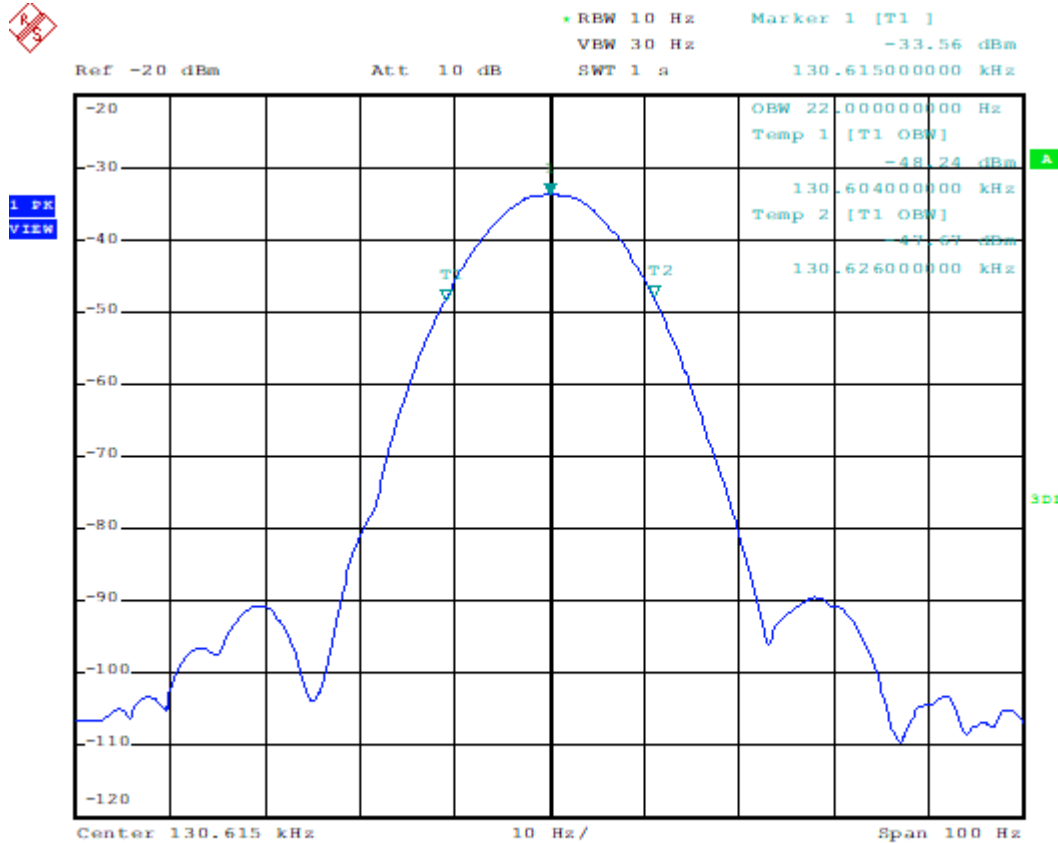
7.3.4 Measurement Procedure and Data



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| Test Mode | Test Frequency(KHz) | 99% bandwidth(Hz) | Limit (KHz) | Results |
|-----------|---------------------|-------------------|-------------|---------|
| 07 | 130.615 | 22.00 | N/A | Pass |



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7.4 Restricted Bands

Test Requirement 47 CFR Part 15, Subpart C 15.205
 Test Method: ANSI C63.10 (2013) Section 6.10.5
 Limit:

The fundamental wave could not fall in the restricted band 90KHz-110KHz

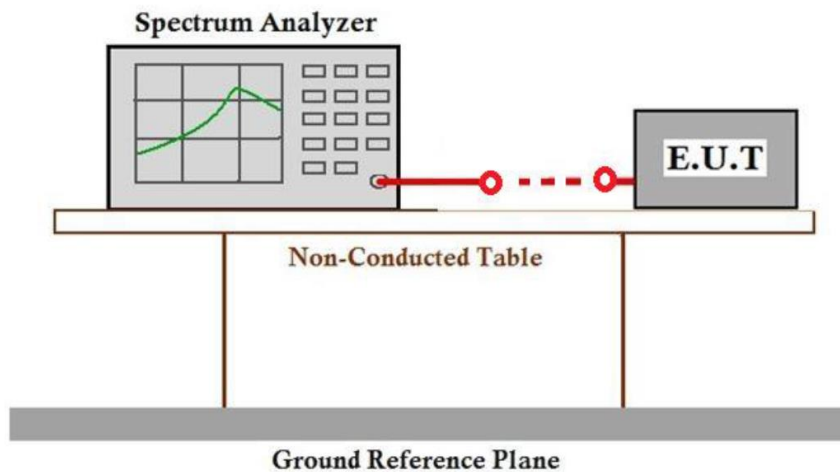
7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.8 °C Humidity: 59.5 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Pre-scan | 00 | Charge mode_Keep the EUT charging(5W),Input 12V DC |
| Pre-scan | 01 | Charge mode_Keep the EUT charging(7.5W),Input 12V DC |
| Pre-scan | 02 | Charge mode_Keep the EUT charging(10W),Input 12V DC |
| Pre-scan | 03 | Charge mode_Keep the EUT charging(15W),Input 12V DC |
| Pre-scan | 04 | Charge mode_Keep the EUT charging(5W),Input 24V DC |
| Pre-scan | 05 | Charge mode_Keep the EUT charging(7.5W),Input 24V DC |
| Pre-scan | 06 | Charge mode_Keep the EUT charging(10W),Input 24V DC |
| Final test | 07 | Charge mode_Keep the EUT charging(15W),Input 24V DC |

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

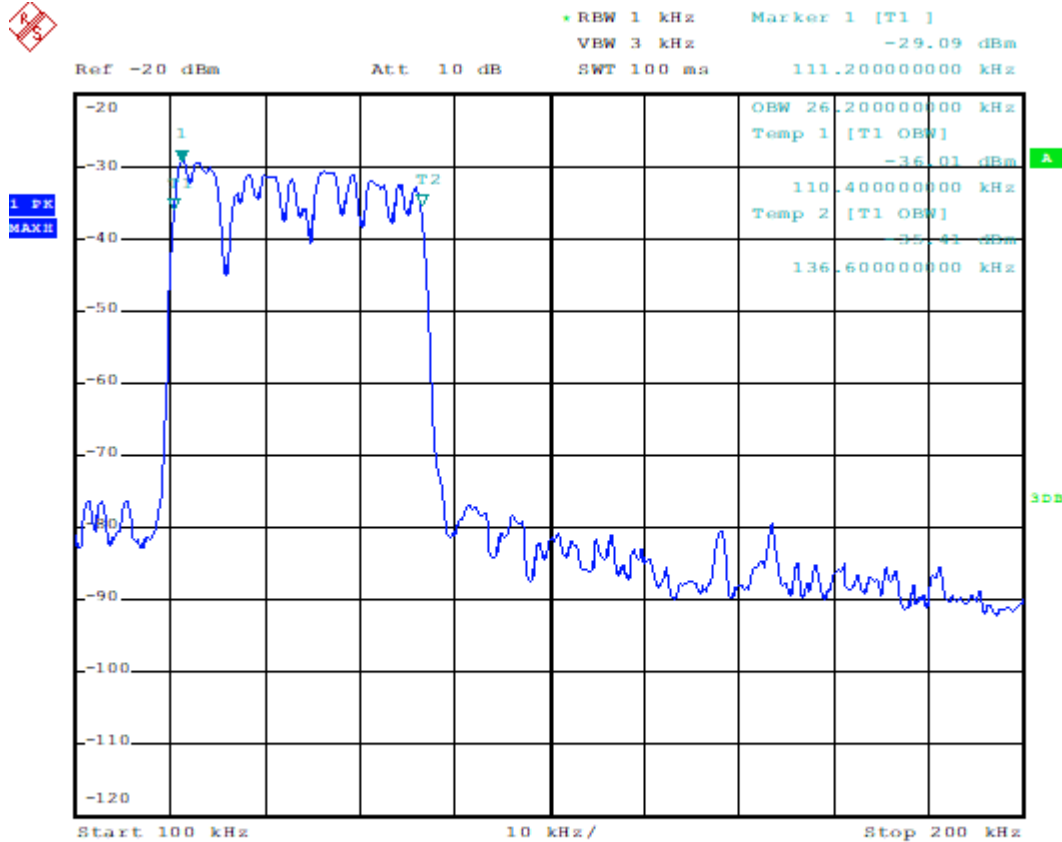


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According the test data above, the fundamental wave is not fall in the restricted band 90kHz-110kHz, the field strength also meet the 15.209 requirement, please refer to clause 7.3.

Test Mode: 07



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8 Test Setup Photo

Refer to Appendix - Setup photos for FYCR2204000053AT

9 EUT Constructional Details (EUT Photos)

Refer to appendix - External and Internal photos for FYCR2204000053AT

- End of the Report -



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