

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT**

OF

Applicant: Channel Well Technology Co., Ltd
No.222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County
338, Taiwan, R. O. C

Product Name: Wireless Charger

Brand Name: Butterfly

Model No.: WTD1A05

Model Difference: N/A

Report Number: T190521W06-RP

FCC ID: 2AC3UWTD1A05BN

FCC Rule Part Part 15C

Issue Date: Jun. 25, 2019

Date of Test: May 21, 2019~ Jun. 10, 2019

Date of EUT Received: May 21, 2019

Issued by: Compliance Certification Services Inc.Wugu Lab.
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891,
Taiwan. (R.O.C.)
service@ccsrf.com

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report. The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Tested By:**Jerry Lu / Sr. Engineer****Approved By:****Kevin Tsai / Deputy Manager**

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Revision History

| Report Number | Revision | Description | Effected Page | Issue Date | Revised By |
|---------------|----------|------------------------------|---------------|---------------|------------|
| T190521W06-RP | Rev.00 | Initial creation of document | All | Jun. 12, 2019 | Elle Chang |
| T190521W06-RP | Rev.01 | Updated Operating Frequency | 4 | Jun. 25, 2019 | Elle Chang |

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1 GENERAL INFORMATION

1.1 Product Description

General:

| | | |
|-------------------|-------------------------|--|
| Product Name: | Wireless Charger | |
| Brand Name: | Butterfly | |
| Model No.: | WTD1A05 | |
| Model Difference: | N/A | |
| Hardware Version: | N/A | |
| Software Version: | N/A | |
| Power Supply: | 5Vdc from AC/DC adapter | |
| | Adapter: | 1. Model No.: 2ADB010BC, Supplier: N/A |

WPC:

| | |
|---------------------|--------------------|
| Operating Frequency | 120Khz~148KHz |
| Transmit Power | < 123dBuV/m at 3m. |
| Number of Channels | 1 |
| Antenna Type | Loop Antenna |
| Modulation Type | ASK |

This report complies with FCC regulatory radio rule with respect to WPC that operates on 148 kHz.

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1.2 Test Methodology

FCC Part 15, Subpart C

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards..

1.3 Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,
Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)
FCC Designation number: TW1309

1.4 Special Accessories

There is no special accessory used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

1.6 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber,
the measurements correspond to those obtained at an open-field test site.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.107. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m above the reference ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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- Remark 1. Emission level in dBuV/m= $20 \log(uV/m)$
:
2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.
 3. Distance extrapolation factor = $40 \log(\text{required distance}/\text{test distance})$ (dB);
 4. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
Ex. $20 \log(30) + 40 \log(30/3) = 69.54 \text{dBuV/m}$
 5. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205.
 6. The general radiated emission limits in §15.209 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

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2.4 Configuration of Tested System

Fig. 2-1 Emission test set up configuration

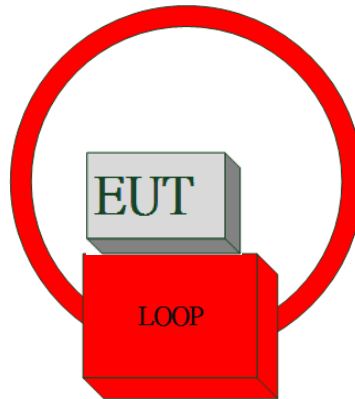


Fig. 2-2 Conduction test set up configuration

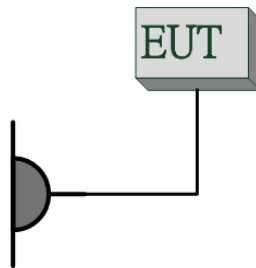


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|-------------------|-----------|----------------|------------|------------|------------|
| 1. | WPC Test software | Tera Term | N/A | N/A | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|-------------|---|-----------|
| §15.207 | AC Power Line Conducted Emission | Compliant |
| §15.209 | Radiated Emission Limits, general requirement | Compliant |
| §15.215 (c) | 20 dB & 99% OCCUPIED BANDWIDTH | Compliant |
| §15.203 | Antenna Requirement | Compliant |

4 DESCRIPTION OF TEST MODES

The EUT stay in continuous transmitting mode. The frequency 148MHz is the default channel to test, where it is the only manipulative channel as this application supports.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode), the worst case E2 position was reported.

The data rate as the lowest supported is selected while tests are conducted.

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5 MEASUREMENT UNCERTAINTY

| PARAMETER | UNCERTAINTY |
|---------------------------------------|---------------|
| AC Powerline Conducted Emission | +/- 1.2575dB |
| Emission bandwidth, 20dB bandwidth | +/- 147.256Hz |
| 3M Semi Anechoic Chamber / 30M~200M | +/- 4.12 |
| 3M Semi Anechoic Chamber / 200M~1000M | +/- 4.68 |
| 3M Semi Anechoic Chamber / 1G~8G | +/- 5.18 |
| 3M Semi Anechoic Chamber / 8G~18G | +/- 5.47 |
| 3M Semi Anechoic Chamber / 18G~26G | +/- 3.81 |
| 3M Semi Anechoic Chamber / 26G~40G | +/- 3.87 |

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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6 CONDUCTED EMISSIONS TEST

6.1 Limitation

Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

| Frequency range MHz | Limits dB (uV) | |
|------------------------|-------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

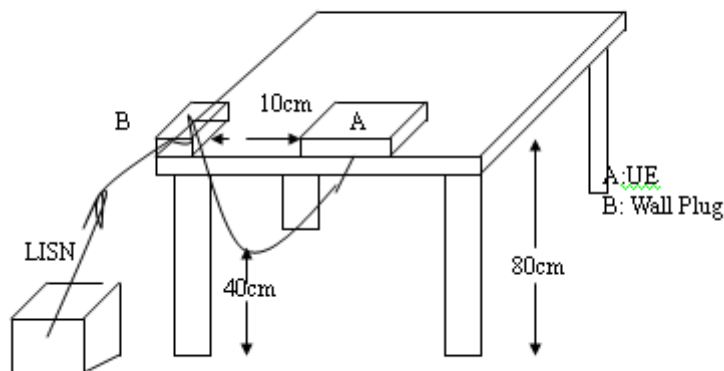
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Sweep frequency starting from 150 kHz to 30 MHz for phase L1.
4. Repeating the measurement as lists above for phase neutral.

6.3 Test SET-UP (Block Diagram of Configuration)



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6.4 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| CABLE | EMCI | CFD300-NL | CERF | 06/29/2018 | 06/28/2019 |
| EMI Test Receiver | R&S | ESCI | 100064 | 07/24/2018 | 07/23/2019 |
| LISN | SCHWARZBECK | NSLK 8127 | 8127-541 | 01/31/2019 | 01/30/2020 |
| LISN | SCHAFFNER | NNB 41 | 03/10013 | 02/13/2019 | 02/12/2020 |
| Software | EZ-EMC(CCS-3A1-CE) | | | | |

6.5 Measurement Result:

Note: Refer to next page for measurement data and plots.

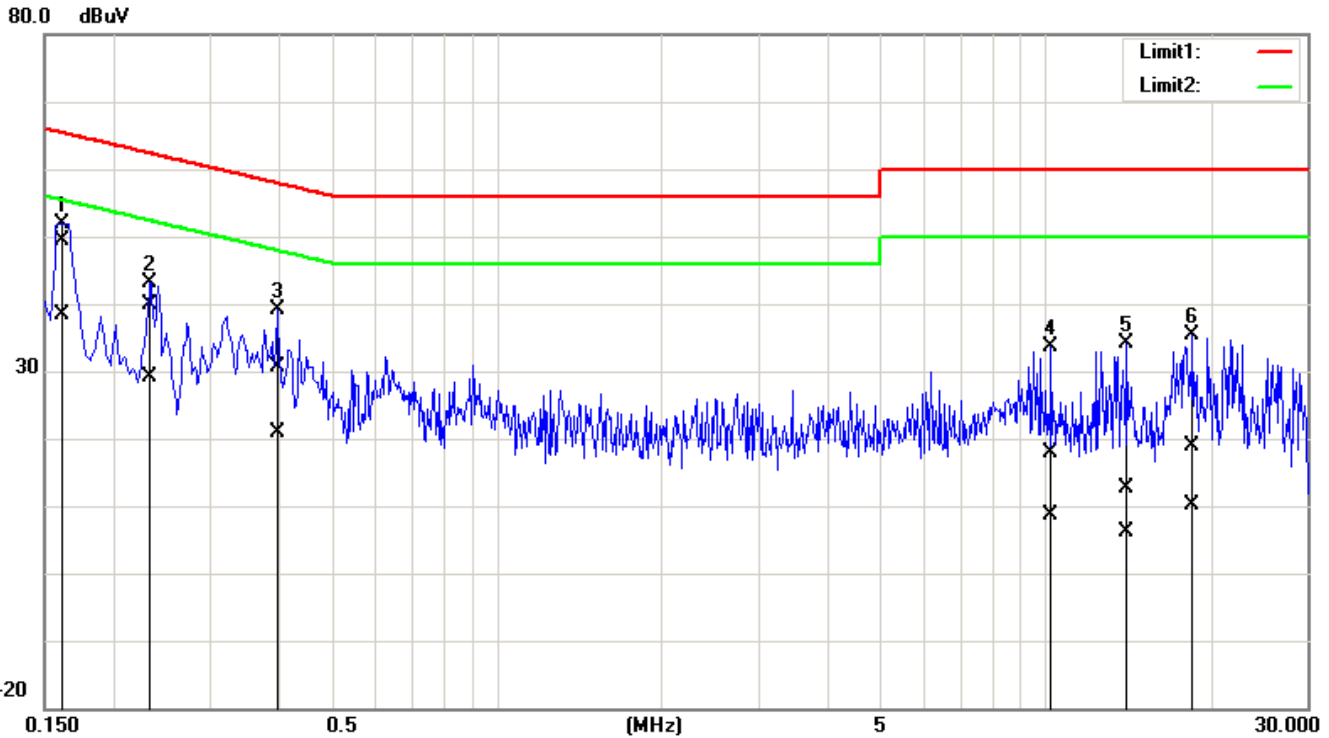
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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|----------------------|--------------|---------------------------|------------|
| Description: | Operation | Date: | 2019/6/10 |
| Line: | L1 | Temp.(°C)/Hum.(%): | 24(°C)/50% |
| Test Voltage: | AC 120V/60Hz | Test By: | Henry |
| Model: | 2ADB010BC | | |

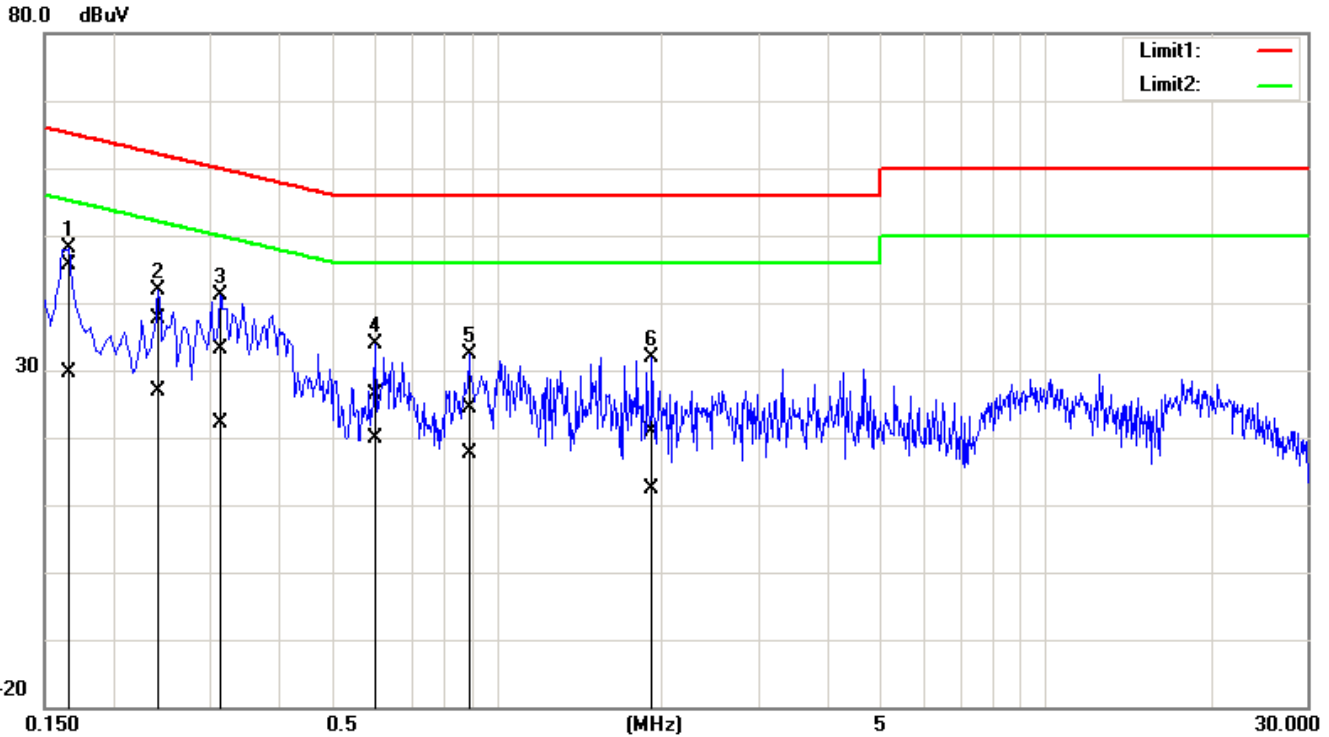


| No. | Frequency (MHz) | QuasiPeak reading (dBuV) | Average reading (dBuV) | Correction factor (dB) | QuasiPeak result (dBuV) | Average result (dBuV) | QuasiPeak limit (dBuV) | Average limit (dBuV) | QuasiPeak margin (dB) | Average margin (dB) | Remark |
|-----|-----------------|--------------------------|------------------------|------------------------|-------------------------|-----------------------|------------------------|----------------------|-----------------------|---------------------|--------|
| 1* | 0.1620 | 39.21 | 28.27 | 10.14 | 49.35 | 38.41 | 65.36 | 55.36 | -16.01 | -16.95 | Pass |
| 2 | 0.2340 | 29.76 | 18.98 | 10.13 | 39.89 | 29.11 | 62.30 | 52.31 | -22.41 | -23.20 | Pass |
| 3 | 0.3980 | 20.53 | 10.74 | 10.14 | 30.67 | 20.88 | 57.89 | 47.90 | -27.22 | -27.02 | Pass |
| 4 | 10.2620 | 7.63 | -1.75 | 10.34 | 17.97 | 8.59 | 60.00 | 50.00 | -42.03 | -41.41 | Pass |
| 5 | 14.0780 | 2.16 | -4.14 | 10.36 | 12.52 | 6.22 | 60.00 | 50.00 | -47.48 | -43.78 | Pass |
| 6 | 18.6140 | 8.49 | -0.30 | 10.36 | 18.85 | 10.06 | 60.00 | 50.00 | -41.15 | -39.94 | Pass |

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| | | | |
|----------------------|---------------------|---------------------------|-------------------|
| Description: | Operation | Date: | 2019/6/10 |
| Line: | N | Temp.(°C)/Hum.(%): | 24(°C)/50% |
| Test Voltage: | AC 120V/60Hz | Test By: | Henry |
| Model: | 2ADB010BC | | |



| No. | Frequency (MHz) | QuasiPeak reading (dBuV) | Average reading (dBuV) | Correction factor (dB) | QuasiPeak result (dBuV) | Average result (dBuV) | QuasiPeak limit (dBuV) | Average limit (dBuV) | QuasiPeak margin (dB) | Average margin (dB) | Remark |
|-----|-----------------|--------------------------|------------------------|------------------------|-------------------------|-----------------------|------------------------|----------------------|-----------------------|---------------------|--------|
| 1* | 0.1660 | 35.61 | 19.49 | 10.02 | 45.63 | 29.51 | 65.15 | 55.16 | -19.52 | -25.65 | Pass |
| 2 | 0.2420 | 27.60 | 16.78 | 10.02 | 37.62 | 26.80 | 62.02 | 52.03 | -24.40 | -25.23 | Pass |
| 3 | 0.3140 | 23.00 | 12.12 | 10.03 | 33.03 | 22.15 | 59.86 | 49.86 | -26.83 | -27.71 | Pass |
| 4 | 0.6020 | 16.33 | 9.91 | 10.03 | 26.36 | 19.94 | 56.00 | 46.00 | -29.64 | -26.06 | Pass |
| 5 | 0.8900 | 14.31 | 7.66 | 10.04 | 24.35 | 17.70 | 56.00 | 46.00 | -31.65 | -28.30 | Pass |
| 6 | 1.9260 | 10.93 | 2.20 | 10.06 | 20.99 | 12.26 | 56.00 | 46.00 | -35.01 | -33.74 | Pass |

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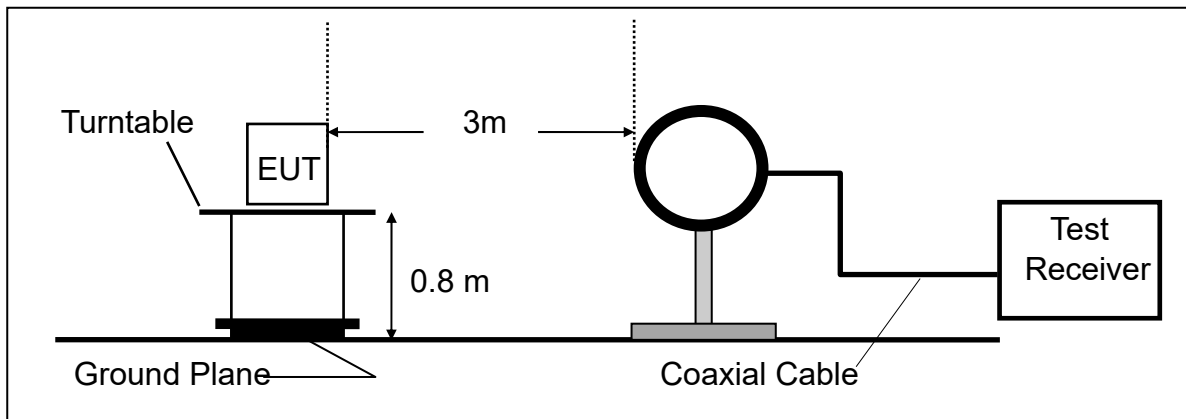
7 RADIATED EMISSION TEST

7.1 Measurement Procedure

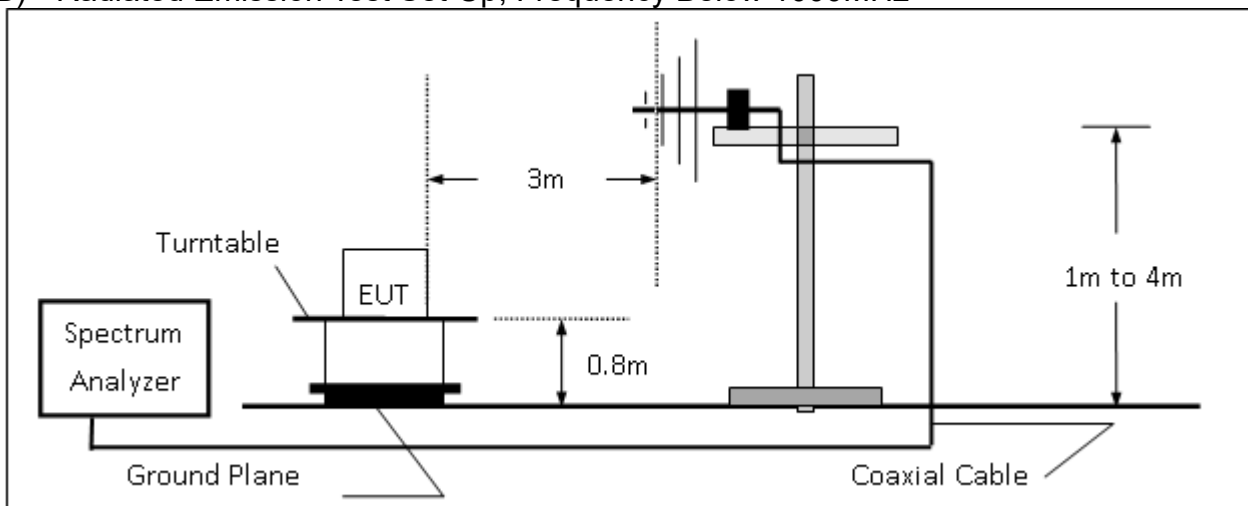
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

7.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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7.3 Measurement Equipment Used:

| 966A Chamber | | | | | |
|------------------------------|-------------------|-----------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Bilog Antenna | Sunol Sciences | JB3 | A030105 | 07/13/2018 | 07/12/2019 |
| Cable | HUBER SUHNER | SUCOFLEX 104PEA | 20995 | 06/29/2018 | 06/28/2019 |
| Digital Thermo-Hygro Meter | WISEWIND | 1206 | D07 | 01/30/2019 | 01/29/2020 |
| Loop Ant | COM-POWER | AL-130 | 121051 | 03/22/2019 | 03/21/2020 |
| Pre-Amplifier | EMEC | EM330 | 060609 | 06/29/2018 | 06/28/2019 |
| PSA Series Spectrum Analyzer | Agilent | E4446A | MY46180323 | 05/29/2019 | 05/28/2020 |
| Antenna Tower | CCS | CC-A-1F | N/A | N.C.R | N.C.R |
| Controller | CCS | CC-C-1F | N/A | N.C.R | N.C.R |
| Turn Table | CCS | CC-T-1F | N/A | N.C.R | N.C.R |
| Software | e3 V6.11-20180413 | | | | |

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7.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

7.5 Field Strength of Fundamental Emission

7.5.1 Limit

Below 30MHz

| Frequency (MHz) | Limit ($\mu\text{V}/\text{m}$) | Measurement distance (meters) | Remark |
|-----------------|----------------------------------|-------------------------------|------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 | Quasi-Peak Value |
| 0.490-1.705 | 24000/F(kHz) | 30 | Quasi-Peak Value |
| 1.705-30.0 | 30 | 30 | Quasi-Peak Value |

Above 30MHz

| Frequency (MHz) | Limit (dB $\mu\text{V}/\text{m}$ @3m) | Remark |
|-----------------|---------------------------------------|------------------|
| 30-88 | 40 | Quasi-Peak Value |
| 88-216 | 43.5 | Quasi-Peak Value |
| 216-960 | 46 | Quasi-Peak Value |
| Above 960 | 54 | Quasi-Peak Value |
| Above 1GHz | 54 | Average Value |
| | 74 | Peak Value |

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Note:

1. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement. $Ex. 20 \cdot \log(30) + 40 \cdot \log(30/3) = 69.54 \text{ dBuV/m}$
2. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
3. $Actual \text{ FS(dB}\mu\text{V/m)} = \text{Spectrum. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$
 $\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre_Amplifier Gain(dB)}$
“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

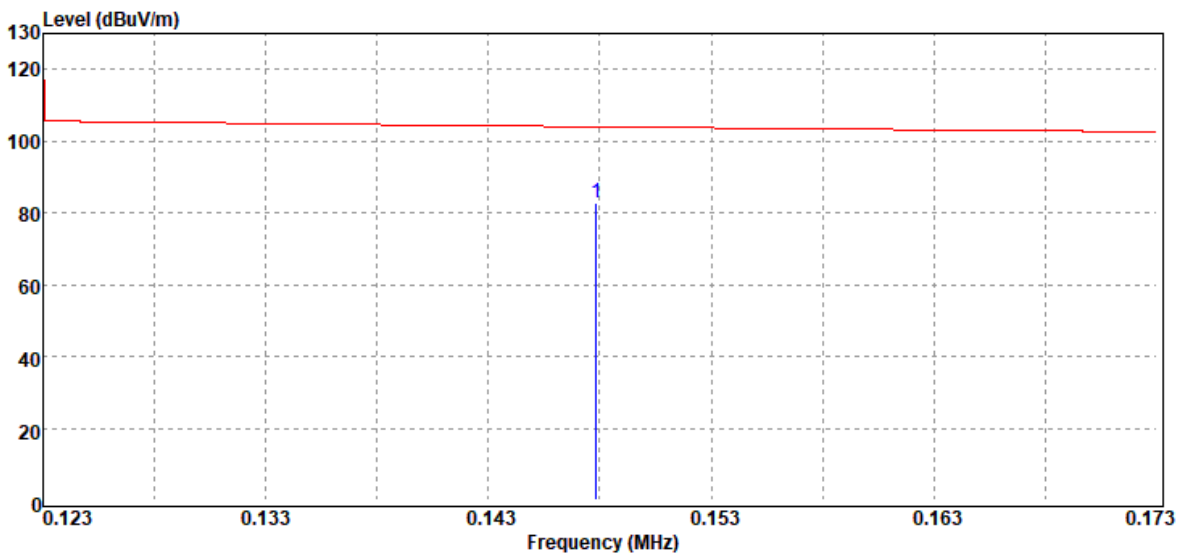
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7.5.2 Below 30 MHz test result

| | | | |
|----------------|--------------|--------------|-------------|
| Project Number | :T190521W06 | Test Date | :2019-06-03 |
| Operation Band | :WPC | Temp./Humi. | :20.7/50 |
| Frequency | :148 KHz | Antenna Pol. | :VERTICAL |
| Operation Mode | :Main CH Mid | Engineer | :Jerry |
| EUT Pol. | :E2 Plan | | |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 0.15 | Peak | 68.91 | 13.66 | 82.57 | 103.99 | -21.42 |

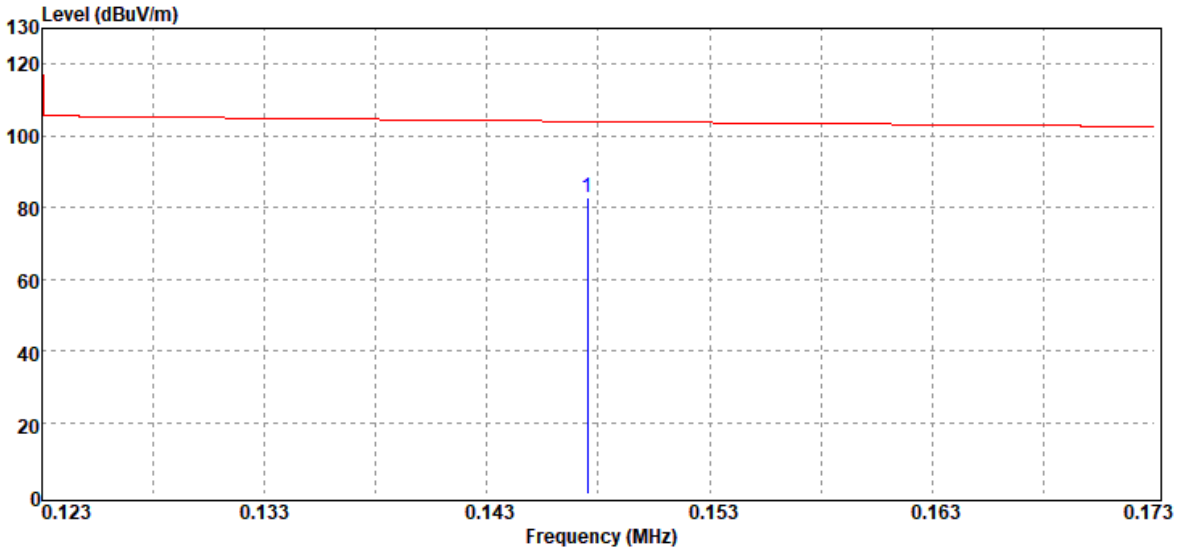
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Project Number :T190521W06
 Operation Band :WPC
 Frequency :148 KHz
 Operation Mode :Main CH Mid
 EUT Pol. :E2 Plan

Test Date :2019-06-03
 Temp./Humi. :20.7/50
 Antenna Pol. :HORIZONTAL
 Engineer :Jerry



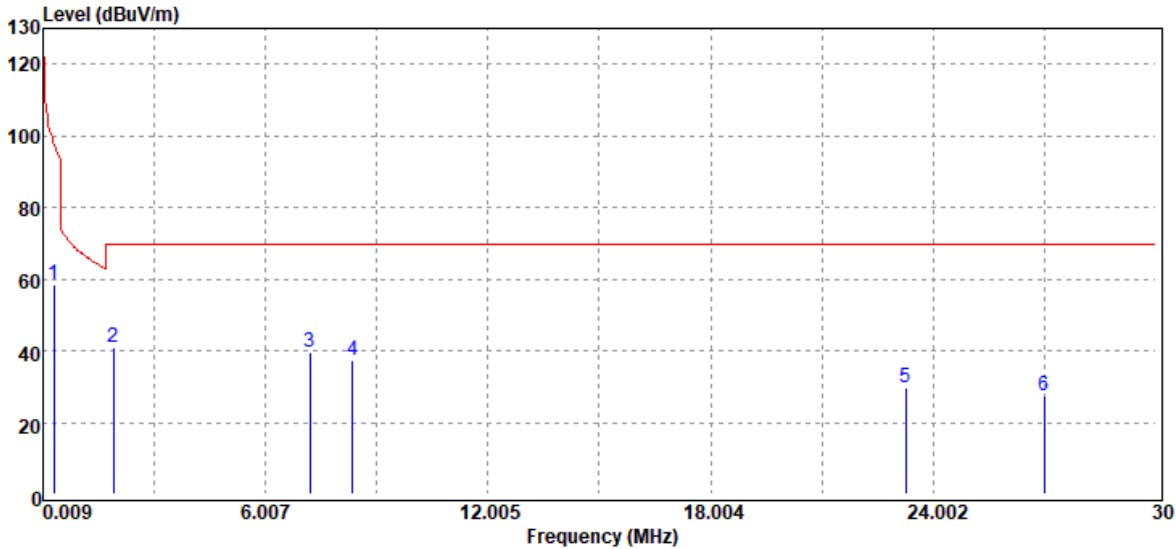
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 0.15 | Peak | 69.21 | 13.66 | 82.87 | 104.01 | -21.14 |

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Project Number :T190521W06
Operation Band :WPC
Frequency :148 KHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-06-03
Temp./Humi. :20.7/50
Antenna Pol. :VERTICAL
Engineer :Jerry



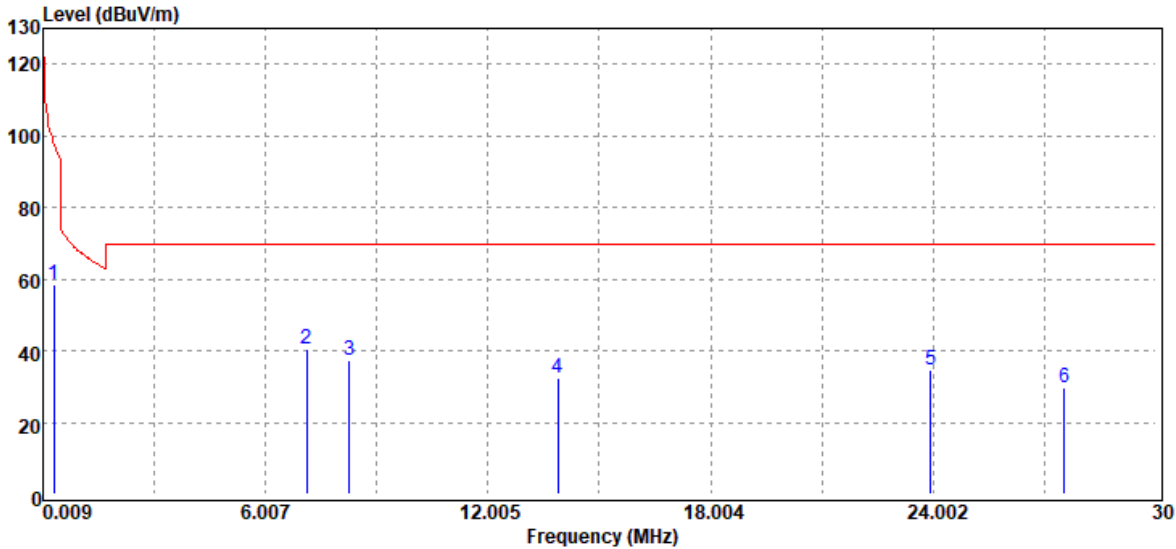
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 0.30 | Peak | 44.08 | 14.28 | 58.36 | 97.91 | -39.55 |
| 1.90 | Peak | 26.11 | 14.91 | 41.02 | 69.54 | -28.52 |
| 7.21 | Peak | 23.77 | 15.78 | 39.55 | 69.54 | -29.99 |
| 8.35 | Peak | 21.44 | 15.96 | 37.40 | 69.54 | -32.14 |
| 23.25 | Peak | 14.63 | 14.88 | 29.51 | 69.54 | -40.03 |
| 27.00 | Peak | 13.34 | 14.18 | 27.52 | 69.54 | -42.02 |

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Project Number :T190521W06
Operation Band :WPC
Frequency :148 KHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-06-03
Temp./Humi. :20.7/50
Antenna Pol. :HORIZONTAL
Engineer :Jerry



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 0.30 | Peak | 44.15 | 14.28 | 58.43 | 97.91 | -39.48 |
| 7.12 | Peak | 24.79 | 15.77 | 40.56 | 69.54 | -28.98 |
| 8.26 | Peak | 21.24 | 15.95 | 37.19 | 69.54 | -32.35 |
| 13.90 | Peak | 16.45 | 15.89 | 32.34 | 69.54 | -37.20 |
| 23.94 | Peak | 20.02 | 14.74 | 34.76 | 69.54 | -34.78 |
| 27.54 | Peak | 15.74 | 14.09 | 29.83 | 69.54 | -39.71 |

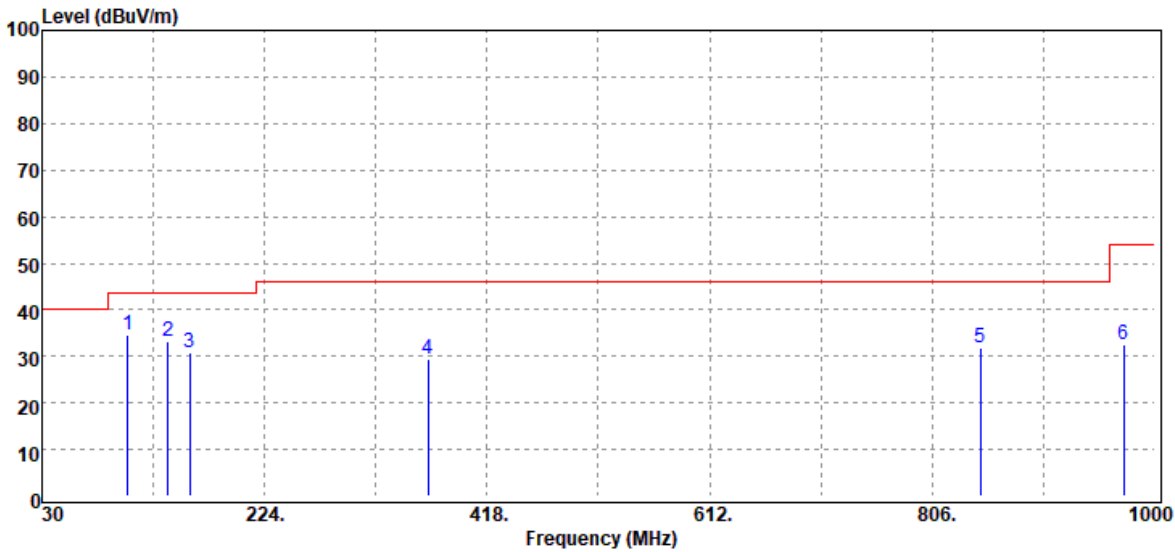
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7.5.3 Above 30MHz test result

Project Number :T190521W06
Operation Band :WPC
Frequency :148 KHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-06-03
Temp./Humi. :20.7/50
Antenna Pol. :VERTICAL
Engineer :Jerry



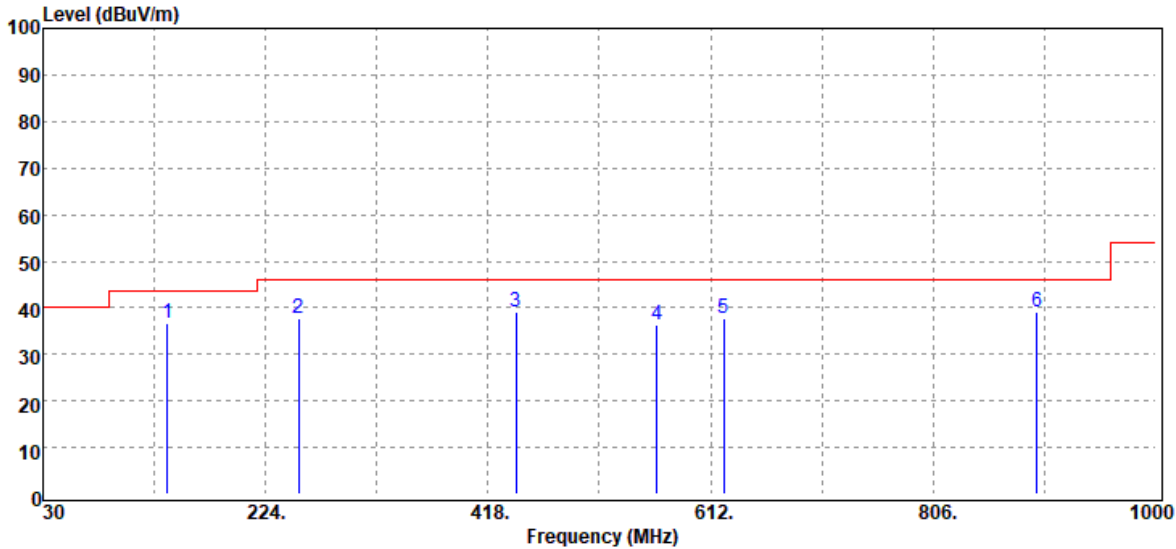
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 104.69 | Peak | 45.89 | -11.18 | 34.71 | 43.50 | -8.79 |
| 139.61 | Peak | 43.20 | -9.82 | 33.38 | 43.50 | -10.12 |
| 159.01 | Peak | 40.82 | -9.95 | 30.87 | 43.50 | -12.63 |
| 366.59 | Peak | 35.76 | -6.50 | 29.26 | 46.00 | -16.74 |
| 847.71 | Peak | 28.66 | 3.15 | 31.81 | 46.00 | -14.19 |
| 972.84 | Peak | 26.83 | 5.56 | 32.39 | 54.00 | -21.61 |

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Project Number :T190521W06
Operation Band :WPC
Frequency :148 KHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-06-03
Temp./Humi. :20.7/50
Antenna Pol. :HORIZONTAL
Engineer :Jerry



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 138.64 | Peak | 46.25 | -9.70 | 36.55 | 43.50 | -6.95 |
| 253.10 | Peak | 47.96 | -10.31 | 37.65 | 46.00 | -8.35 |
| 442.25 | Peak | 43.17 | -4.05 | 39.12 | 46.00 | -6.88 |
| 565.44 | Peak | 38.30 | -2.09 | 36.21 | 46.00 | -9.79 |
| 623.64 | Peak | 38.26 | -0.66 | 37.60 | 46.00 | -8.40 |
| 896.21 | Peak | 35.00 | 4.05 | 39.05 | 46.00 | -6.95 |

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8 20 dB & 99% OCCUPIED BANDWIDTH MEASUREMENT

8.1 Standard Applicable:

§2.1049 & §15.215 (c)

8.2 Limit:

None

8.3 Test Set-up

Refer to section 6.2 in this report

8.4 Measurement Procedure

20dB bandwidth

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
2. 20dB Bandwidth the resolution bandwidth of 200 Hz and the video bandwidth of 1 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Turn on the 99% bandwidth function, max reading

8.5 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|--------------|----------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| DC Block | PASTERNAK | PE8210 | RF256 | 02/26/2019 | 02/25/2020 |
| Spectrum Analyzer | Agilent | N9010A | MY5340025 6 | 11/21/2018 | 11/20/2019 |

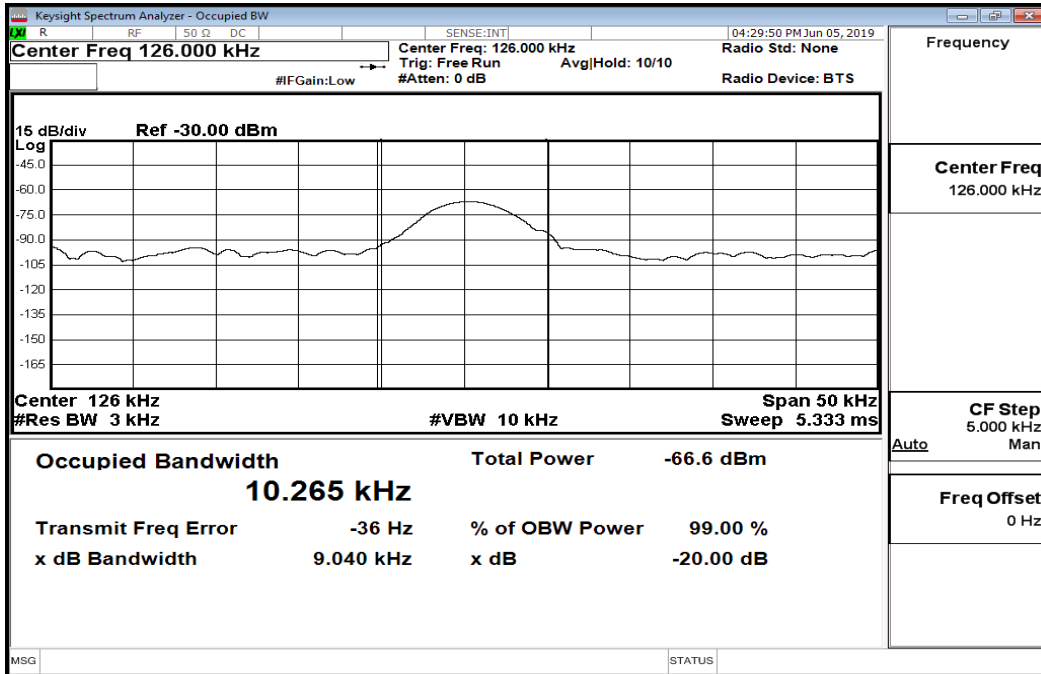
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8.6 Measurement Result -20dB Bandwidth



| 20dB Bandwidth | 99% Bandwidth | Limit |
|----------------|---------------|----------------|
| 9.040 kHz | 10.265 kHz | No requirement |

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9 ANTENNA REQUIREMENT

9.1 Standard Applicable:

According to §15.203, Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

9.2 Antenna Connected Construction:

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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