


Report No.: SEWM2307000279RG01

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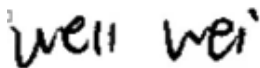
TEST REPORT

Application No.: SEWM2307000279RG
Applicant: Siklu Communication Ltd.
Address of Applicant: 43 Hasivim St. Petach-Tikva 4959501, Israel
Manufacturer: Siklu Communication Ltd.
Address of Manufacturer: 43 Hasivim St. Petach-Tikva 4959501, Israel
EUT Description: Terminal unit of point-to-multipoint high BW system operating in 57-66GHz
Model No.: MH-T261-CNN-N-MWB
Trade Mark: 
FCC ID: 2ACYESK-MH60TG-A8
Standards: FCC 47 CFR Part 15, Subpart C 15.255
Date of Receipt: 2023/06/05
Date of Test: 2023/07/05 to 2023/07/23
Date of Issue: 2023/07/28

Test Result :**PASS ***

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Well Wei

Wireless Laboratory Manager



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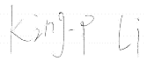
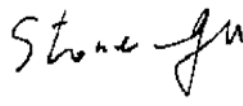
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1 Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2023/07/28 | | Original |

| | |
|-------------|---|
| Prepared By |  _____ (King-p Li) / Test Engineer |
| Checked By |  _____ (Stone Gu) / Reviewer |



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2 Test Summary

| Test Item | FCC Rule No. | Test Method | Test Result | Result |
|---|----------------------------|--------------------------------------|-------------|--------|
| Antenna Requirement | 15.203 | -- | Clause 4.1 | PASS |
| AC Power Line Conducted Emission | 15.207 | ANSI C63.10-2013 Section 6.2 | Clause 4.2 | PASS |
| Transmitter power and power spectral density | 15.255 (c)(1)(ii)&(e) | ANSI C63.10-2013 Section 9.5/9.6 | Clause 4.3 | PASS |
| Occupied bandwidth | 15.215 (c), 15.255 (e2) | ANSI C63.10-2013 Section 9.3 | Clause 4.4 | PASS |
| Radiated spurious emissions below 40 GHz | 15.255 (d)(2) | ANSI C63.10-2013 Section 9.13 | Clause 4.5 | PASS |
| Radiated emissions outside assigned band and above 40 GHz up to 200 GHz | 15.255 (d)(3) | ANSI C63.10-2013 Section 9.9/9.12 | Clause 4.6 | PASS |
| Frequency stability | 15.255 (f) | ANSI C63.10-2013 Section 9.14 | Clause 4.7 | PASS |



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3 General Information

3.1 Details of Client

| | |
|--------------------------|---|
| Applicant: | Siklu Communication Ltd. |
| Address of Applicant: | 43 Hasivim St. Petach-Tikva 4959501, Israel |
| Manufacturer: | Siklu Communication Ltd. |
| Address of Manufacturer: | 43 Hasivim St. Petach-Tikva 4959501, Israel |

3.2 Test Location

| | |
|----------------|--|
| Company: | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. |
| Address: | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Post code: | 215000 |
| Test engineer: | King-p Li |

3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

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

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327




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3.4 General Description of EUT

| | | | | | |
|--|--|-----------------------|----------------|-----------------------|--|
| EUT Description: | Terminal unit of point-to-multipoint high BW system operating in 57-66GHz | | | | |
| Model No.: | MH-T261-CNN-N-MWB | | | | |
| Trade Mark: |  | | | | |
| Software Version: | 2.1.2 | | | | |
| Power Supply: | 42-57VDC,0.31A Max | | | | |
| SN: | AD26100007 | | | | |
| Frequency Range: | 58320MHz-64800MHz | | | | |
| Operation Frequency: | Channel Number | Center Frequency(MHz) | Channel Number | Center Frequency(MHz) | |
| | 0 | 58320 | 2 | 62640 | |
| | 1 | 60480 | 3 | 64800 | |
| Modulation Technique: | BPSK, QPSK, 16QAM | | | | |
| Wireless network protocol: | 802.11ay | | | | |
| Crystal: | 38.4MHz | | | | |
| Antenna Type: | PCB Antenna | | | | |
| Antenna Gain: | 22.5dBi | | | | |
| | Note: The antenna gain are derived from the gain information report provided by the manufacturer. | | | | |
| Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information. | | | | | |



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3.5 Test Environment

| Environment Parameter | 101.0 kPa Selected Values During Tests | |
|--|--|------------|
| Relative Humidity | 44-46 % RH Ambient | |
| Value | Temperature(°C) | Voltage(V) |
| NTNV | 22~23 | 120 |
| LTVN | -20 | 120 |
| HTNV | 50 | 120 |
| Remark: NV: Normal Voltage NT: Normal Temperature HT: High Extreme Test Temperature LT: Low Extreme Test Temperature | | |

3.6 Description of Support Units

| Description | Manufacturer | Model No. | Inventory No. |
|-------------|--|---------------|---------------|
| Computer | Lenovo | T14 | SUWI-03-33-04 |
| POE Adapter | SHENZHEN GOSPELL DIGITAL TECHNOLOGY CO., LTD. | G0720-480-050 | / |



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4 Test results and Measurement Data

4.1 Antenna Requirement

| | |
|--|--------------------------------|
| Standard requirement: | 47 CFR Part 15C Section 15.203 |
| 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. | |
| The antenna is PCB Antenna and no consideration of replacement. The best case gain of the antenna is 22.5dBi. | |
| <p><i>Note:</i></p> <p><i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i></p> <p><i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p> | |



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4.2 AC Power Line Conducted Emissions

| | | | |
|--|--|--------------|-----------|
| Test Requirement: | 47 CFR Part 15C Section 15.207 | | |
| Test Method: | ANSI C63.10-2013 Section 6.2 | | |
| Test Frequency Range: | 150kHz to 30MHz | | |
| Receiver Setup: | RBW = 9kHz, VBW = 30kHz | | |
| Limit: | Frequency range (MHz) | Limit (dBuV) | |
| | | Quasi-peak | Average |
| | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | 0.5-5 | 56 | 46 |
| | 5-30 | 60 | 50 |
| * Decreases with the logarithm of the frequency. | | | |
| 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 50Ω/50μH + 5Ω 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. | | |



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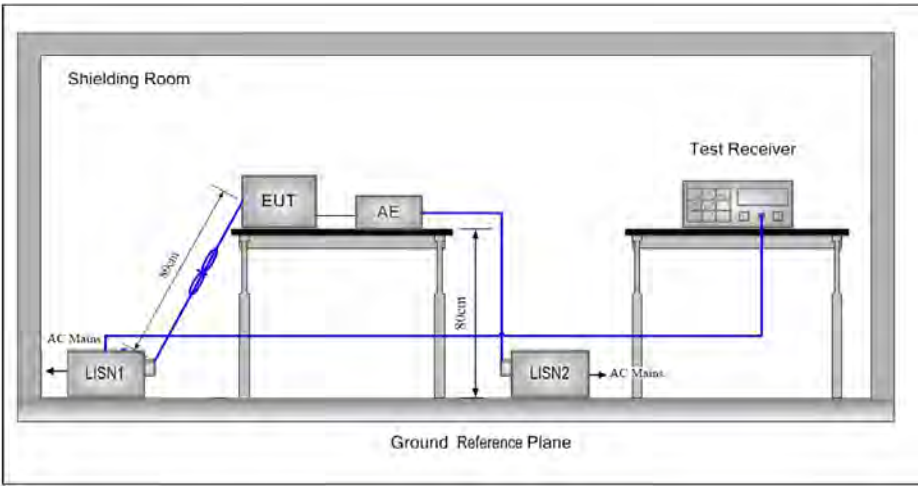
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| | |
|-------------------|--|
| Test Setup: |  |
| Test Mode: | TX mode _ Keep the EUT in continuously transmitting mode |
| Instruments Used: | Refer to section 6 for details. |
| Test Results: | Pass |



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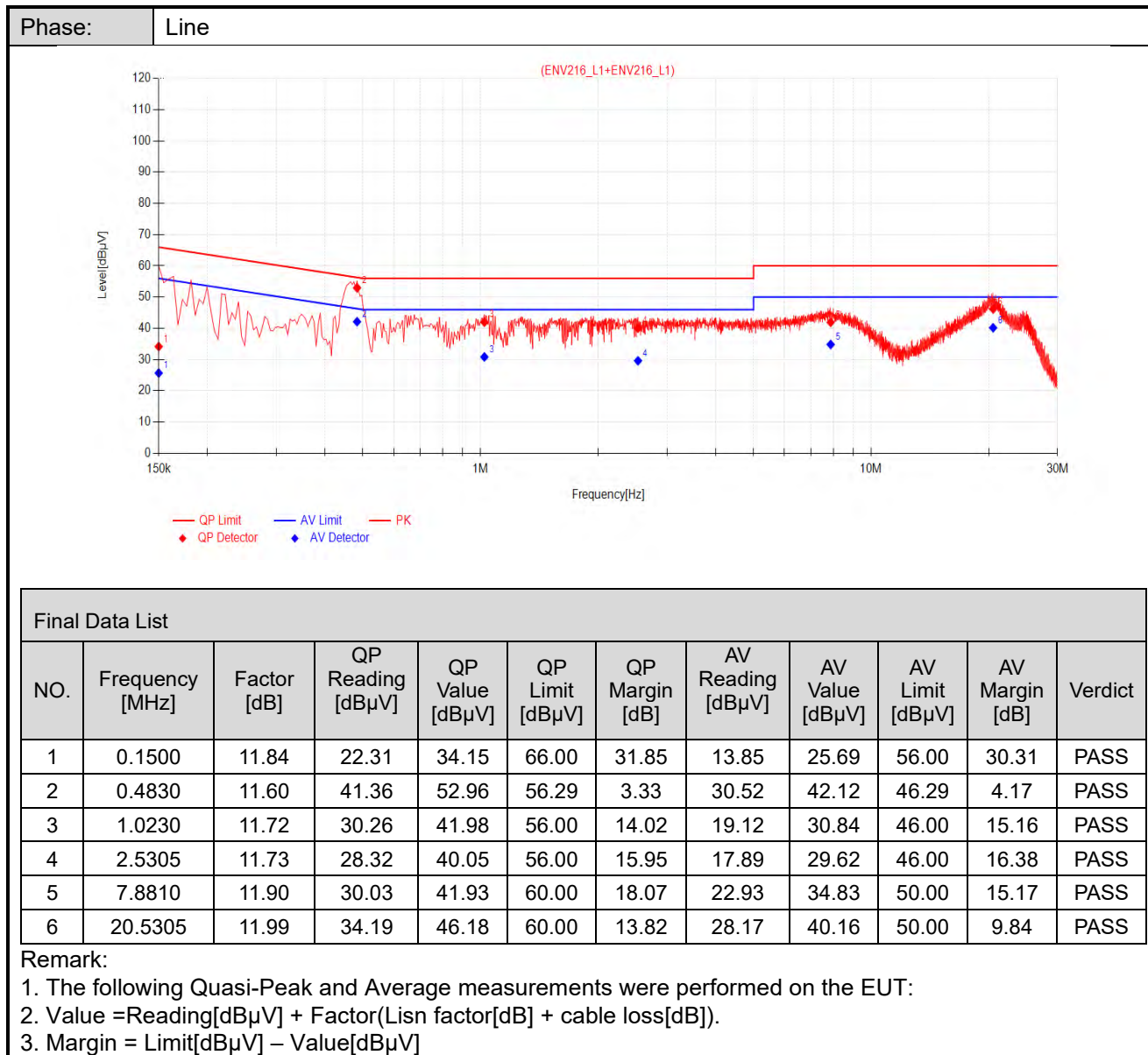
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Measurement Data

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.



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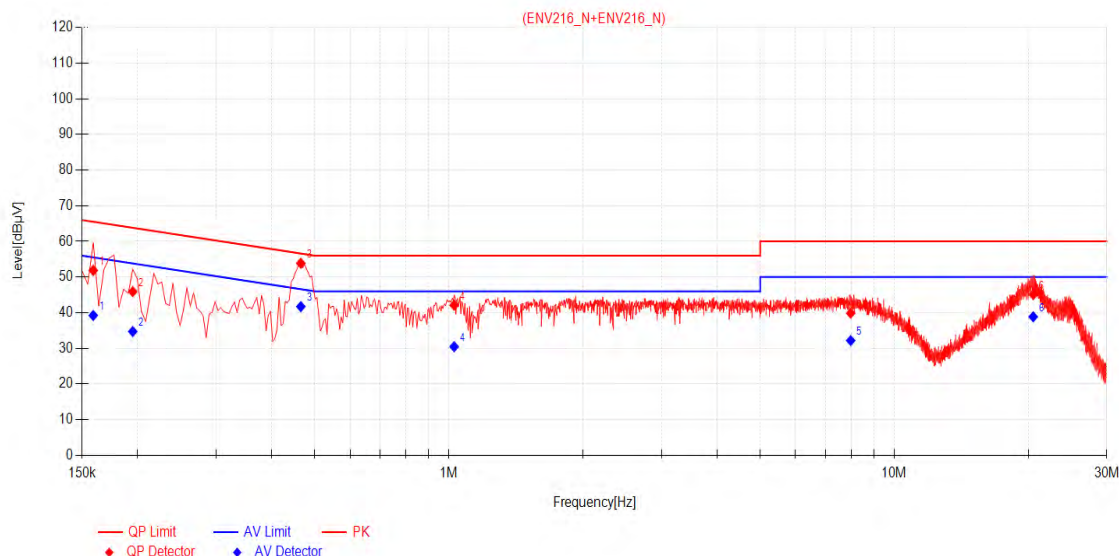
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Phase: Neutral



Final Data List

| NO. | Frequency [MHz] | Factor [dB] | QP Reading [dBμV] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
|-----|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1 | 0.1590 | 11.82 | 40.06 | 51.88 | 65.52 | 13.64 | 27.41 | 39.23 | 55.52 | 16.29 | PASS |
| 2 | 0.1950 | 11.67 | 34.24 | 45.91 | 63.82 | 17.91 | 23.06 | 34.73 | 53.82 | 19.09 | PASS |
| 3 | 0.465 | 11.60 | 42.26 | 53.86 | 56.60 | 2.74 | 30.12 | 41.72 | 46.60 | 4.88 | PASS |
| 4 | 1.0275 | 11.73 | 30.36 | 42.09 | 56.00 | 13.91 | 18.73 | 30.46 | 46.00 | 15.54 | PASS |
| 5 | 7.9845 | 11.89 | 28.00 | 39.89 | 60.00 | 20.11 | 20.30 | 32.19 | 50.00 | 17.81 | PASS |
| 6 | 20.5170 | 11.99 | 33.11 | 45.10 | 60.00 | 14.90 | 26.86 | 38.85 | 50.00 | 11.15 | PASS |

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBμV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBμV] – Value[dBμV]



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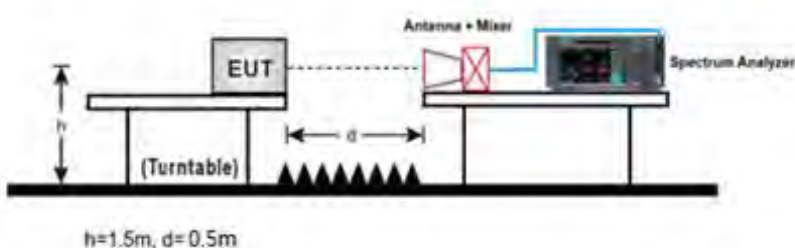
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4.3 Transmitter power and power spectral density

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.255 (c)(1)(i)&(e) |
| Test Method: | ANSI C63.10-2013 Section 9.5, 9.6 |
| Test Setup: |  |
| Test Instruments: | Refer to section 6 for details |
| Test Procedure: | <ol style="list-style-type: none"> 1. Place the EUT on the table and set it in the transmitting mode. 2. Set The SA to Channel Power Function and SA set RBW=1MHz , VBW=3*RBW , Span=5GHz, Detector=Peak /Average Trace: Mask Hold. 3. The EUT was turned from 0 degrees to 360 degrees to find the maximum reading. |
| Test Mode: | TX mode _ Keep the EUT in continuously transmitting mode |
| Limit: | <p>The average power of any emission shall not exceed 40 dBm and the peak power of any emission shall not exceed 43 dBm</p> <p>The peak transmitter conducted output power of devices other than field disturbance sensors/radars shall not exceed 500 mW.(27dbm)</p> |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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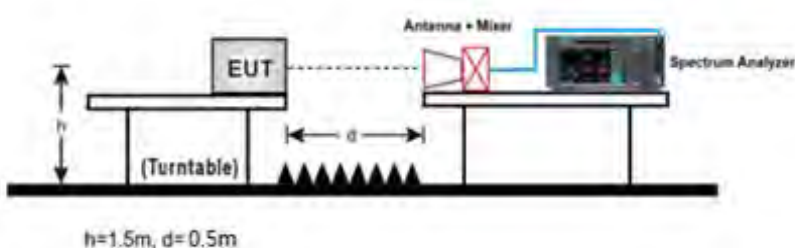
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4.4 Occupied Bandwidth

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.215(c), 15.255 (e2) |
| Test Method: | ANSI C63.10-2013 Section 9.3 |
| Test Setup: |  <p>h=1.5m, d=0.5m</p> |
| Instruments Used: | Refer to section 6 for details |
| Test Procedure: | <ol style="list-style-type: none"> 1. Place the EUT on the table and set it in the transmitting mode. 2. For 20dB and 99% bandwidth, RBW=1%~5% OBW, VBW≈3*RBW; For 6dB bandwidth, RBW=100KHz, VBW≈3*RBW, and Detector=Peak. 3. Measure and record the result of 6dB, 20dB and 99% bandwidth. |
| Test Mode: | TX mode _ Keep the EUT in continuously transmitting mode |
| Limit: | 57-71GHz |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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4.5 Radiated spurious emissions below 40 GHz

| | | | |
|-------------------|--|----------------------------------|-------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.225 (d)(2) | | |
| Test Method: | ANSI C63.10-2013 Section 9.13 | | |
| Limit: | Below 30MHz: | | |
| | Frequency | Field Strength (μV/m) | Measurement Distance (metres) |
| | 9 - 490 kHz | 2,400/F (kHz) | 300 |
| | 490 - 1,705 kHz | 24,000/F (kHz) | 30 |
| | 1.705-30 MHz | 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 and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. | | |
| | Above 30MHz: | | |
| | Frequency (MHz) | Field Strength (μV/m) | Measurement Distance (metres) |
| | 30-88 | 100** | 3 |
| | 88-216 | 150** | 3 |
| | 216-960 | 200** | 3 |
| | Above 960 | 500 | 3 |
| | ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. | | |
| | Frequency (MHz) | Field strength at 3 m, dB(μV/m)* | |
| | | Within restricted bands | |
| | | Peak | Average |
| | 0.009 - 0.090 | 148.5 - 128.5 | 128.5 - 108.5** |
| | 0.090 - 0.110 | NA | 108.5 - 106.8** |
| | 0.110 - 0.490 | 126.8 - 113.8 | NA |
| | 0.490 - 1.705 | NA | 73.8 - 63.0** |
| | 1.705 - 30.0* | | 69.5 |
| | 30 - 88 | | 40.0 |
| | 88 - 216 | | 43.5 |



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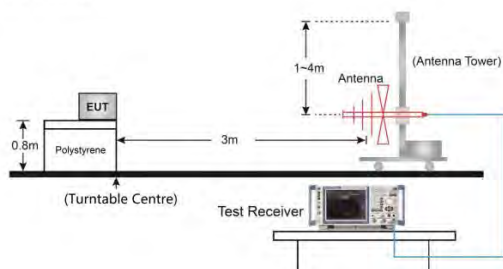
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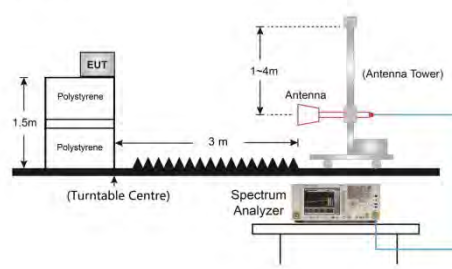
| | | | | |
|-----------------|--|---|------------|---------|
| | 216 - 960 | | 46.0 | |
| | Above 960 | | 54.0 | |
| | 1000 - 200000 | 74.0 | N/A | 54.0 |
| | *- The limit for 3 m test distance was calculated using the inverse square distance extrapolation factor as follows: LimS2 = LimS1 + 20 log (S1/S2), where S1 and S2 - standard defined and test distance respectively in meters. **- The limit decreases linearly with the logarithm of frequency. Note: The above field strength limits applied from the lowest radio frequency generated in the device, without going below 9 kHz up to the tenth harmonic of the highest fundamental frequency but not exceeding 40 GHz for intentional radiators operated below 10 GHz and up to the fifth harmonic of the highest fundamental frequency but not exceeding 200 GHz for intentional radiators operated above 30 GHz. | | | |
| | | | | |
| Frequency (MHz) | | Field strength at 1 m, dB(uV/m)* Within restricted bands | | |
| | | Peak | Quasi Peak | Average |
| 1000 - 200000 | | 83.5 | N/A | 63.5 |

Test Setup:

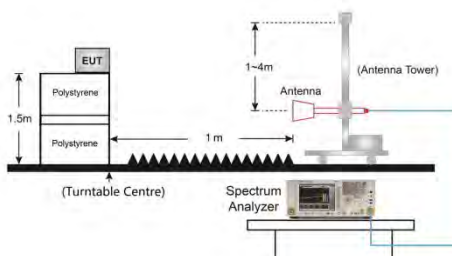
Below 1GHz Test Setup:



1GHz ~ 18 GHz Test Setup:



18GHz ~ 40GHz Test Setup:



Instruments Used:

Refer to section 6 for details

Test Procedure:

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest



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| | |
|---|--|
| | <p>radiation.</p> <p>b. For 1-18GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>c. For 18-40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 1 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>d. 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.</p> <p>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to the same height (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.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. 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.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p> <p>Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.</p> <p>Remark 3: Scan from 9kHz to 40GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</p> |
| Final Test Mode: | TX mode _ Keep the EUT in continuously transmitting mode |
| Test Results: | Pass |
| The detailed test data see: Appendix | |

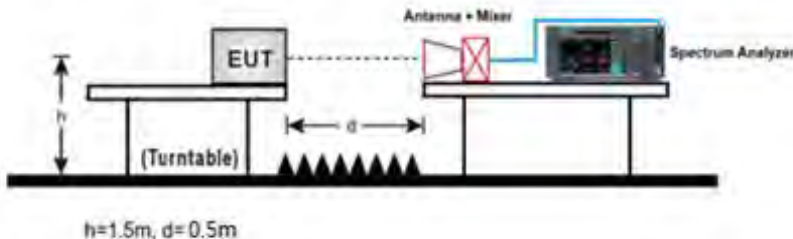


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4.6 Radiated emissions outside assigned band and above 40 GHz up to 200 GHz

| | | | | | |
|--|--|--|--------------|--------------------------------|-----------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.225 (d)(3) | | | | |
| Test Method: | ANSI C63.10-2013 Section 9.9,9.12 | | | | |
| Limit: | Above 40GHz: | | | | |
| | Frequency (GHz) | Power density at 3 m distance (pW/cm2) | Distance (m) | Field strength (dBuV/m)*, peak | Field strength (dBuV/m)*, average |
| | 40 - 200 | 90 | 3.0 | 105.31 | 85.31 |
| | 40 - 200 | 90 | 0.5 | 120.87** | 100.87** |
| | * - Field strength was calculated per equation (26) of ANSI C63.10-2013 section 9 as follows: $E=\sqrt{PD \times 377}$, where PD is the power density at the distance specified by the limit in W/m2, E- field strength in V/m. **- The limit for other test distance was calculated using the inverse distance extrapolation factor as follows: $LimS2 = LimS1 + 20 \log (S1/S2)$, where S1 and S2 - standard defined and test distance respectively in meters. | | | | |
| Test Setup: | | | | | |
|  | | | | | |
| Instruments Used: | Refer to section 6 for details | | | | |
| Test Procedure: | <p>a. For above 40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 0.5 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation</p> <p>b. 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.</p> <p>c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to the same height (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.</p> <p>d. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> | | | | |

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| | |
|---|--|
| | <p>e. 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.</p> <p>f. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>g. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p> <p>Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.</p> |
| Final Test Mode: | TX mode _ Keep the EUT in continuously transmitting mode |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



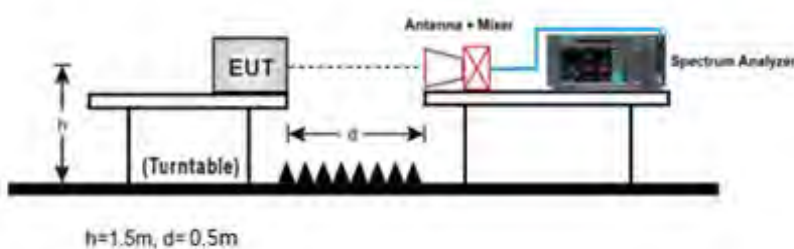
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4.7 Frequency Stability

| | | |
|---|--|--|
| Test Requirement: | 47 CFR Part 15C Section 15.255 (f) | |
| Test Method: | ANSI C63.10-2013 Section 9.14 | |
| Test Setup: |  | |
| Instruments Used: | Refer to section 6 for details | |
| Test Procedure: | <p>1. Temperature conditions:</p> <p>a) The RF output port of the EUT was connected to Frequency Meter;</p> <p>b) Set the working Frequency in the middle channel;</p> <p>c) record the 20°C and nominal voltage frequency value as reference point;</p> <p>d) vary the temperature from -20°C to 50°C with step 10°C</p> <p>e) when reach a temperature point, keep the temperature banlance at least 1 hour to make the product working in this status;</p> <p>f) read the frequency at the relative temperature.</p> <p>2. Voltage conditions:</p> <p>a) record the 20°C and nominal voltage frequency value as reference point;</p> <p>b) vary the voltage from -15% nominal voltage to +15% voltage;</p> <p>read the frequency at the relative voltage.</p> | |
| Test Mode: | TX mode _ Keep the EUT in continuously transmitting mode | |
| Limit: | Frequency (GHz) | Limit |
| | 57 - 71 | The signal must be contained within assigned frequency band. |
| Test Results: | Pass | |
| The detailed test data see: Appendix | | |



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5 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty |
|-----|---------------------|---------------------------------------|
| 1 | Total RF power | $\pm 0.54\text{dB}$ |
| 2 | Occupied Bandwidth | $\pm 1.0\%$ |
| 3 | Radio Frequency | $\pm 1.0\%$ |
| 4 | Conduction Emission | $\pm 2.90\text{dB}$ (150kHz to 30MHz) |
| 5 | Radiated Emission | $\pm 3.13\text{dB}$ (9k -30MHz) |
| | | $\pm 4.80\text{dB}$ (30M -1GHz) |
| | | $\pm 4.80\text{dB}$ (1GHz to 18GHz) |
| | | $\pm 4.80\text{dB}$ (Above 18GHz) |

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

| 9*6*6 Test Equipment | | | | | |
|--------------------------------|-------------------------------|----------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | SUWI-04-02-01 | 2021/05/08 | 2024/05/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-05 | 2023/02/07 | 2024/02/06 |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2023/05/11 | 2024/05/10 |
| Signal Analyzer | KEYSIGHT | N9020A | SUWI-01-02-05 | 2022/11/23 | 2023/11/22 |
| PXA Spectrum Analyzer | KEYSIGHT | N9030B | SUWI-01-62-01 | 2023/01/29 | 2024/01/28 |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2023/02/08 | 2024/02/07 |
| DC Power Supply | HYELEC | HY3005B | SUWI-01-18-01 | 2023/02/06 | 2024/02/05 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | VULB 9163 | SUWI-01-11-01 | 2023/05/13 | 2024/05/12 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9120D | SUWI-01-11-02 | 2023/05/13 | 2024/05/12 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9170 | SUWI-01-11-03 | 2023/05/12 | 2024/05/11 |
| Active Loop Antenna | SCHWEZBECK MESS-ELEKTRONIK | FMZB 1519B | SUWI-01-21-01 | 2023/05/13 | 2024/05/12 |
| Amplifier | Tonscend | TAP9K3G40 | SUWI-01-14-01 | 2023/02/06 | 2024/02/05 |
| Amplifier | Tonscend | TAP01018050 | SUWI-01-14-02 | 2023/02/06 | 2024/02/05 |
| Amplifier | Tonscend | TAP18040048 | SUWI-01-14-03 | 2023/02/08 | 2024/02/07 |
| Measurement Software | Tonscend | JS32-RE | SUWI-02-09-04 | NCR | NCR |
| | | V4.0.0.0 | | | |
| Horn-antenna(40-60GHz) | REBES | SAZ-2410-19-S1 | SUWI-03-49-01 | NCR | NCR |
| Horn-antenna(50-75GHz) | REBES | SAZ-2410-15-S1 | SUWI-03-49-02 | NCR | NCR |
| Horn-antenna(75-110GHz) | REBES | SAZ-2410-10-S1 | SUWI-03-49-03 | NCR | NCR |
| Horn-antenna(110-170GHz) | REBES | SAZ-2410-06-S1 | SUWI-03-49-04 | NCR | NCR |
| Horn-antenna(140-220GHz) | REBES | SAZ-2410-05-S1 | SUWI-03-49-05 | NCR | NCR |
| Horn-antenna(220-325GHz) | REBES | SAR-2309-03-S2 | SUWI-03-49-06 | NCR | NCR |
| Extended waveguide(40-60GHz) | REBES | SWG-19025-FB | SUWI-03-50-01 | NCR | NCR |



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| | | | | | |
|--|------------|-------------------|---------------|-----|-----|
| Extended waveguide(50-75GHz) | REBES | SWG-15025-FB | SUWI-03-50-02 | NCR | NCR |
| Extended waveguide(75-110GHz) | REBES | SWG-10025-FB | SUWI-03-50-03 | NCR | NCR |
| Extended waveguide(110-170GHz) | REBES | SWG-06025-FB | SUWI-03-51-01 | NCR | NCR |
| Extended waveguide(140-220GHz) | REBES | SWG-05025-FB | SUWI-03-51-02 | NCR | NCR |
| Extended waveguide(220-325GHz) | REBES | SWG-03025-FB | SUWI-03-51-03 | NCR | NCR |
| Harmonic mixer(110-170GHz) | REBES | STH-06SF-S1 | SUWI-03-52-01 | NCR | NCR |
| Harmonic mixer(40-60GHz) | REBES | STH-19SF-S1 | SUWI-03-52-02 | NCR | NCR |
| Harmonic mixer(140-220GHz) | REBES | STH-06SF-S1 | SUWI-03-52-03 | NCR | NCR |
| Harmonic mixer(220-325GHz) | REBES | STH-19SF-S1 | SUWI-03-52-04 | NCR | NCR |
| Waveguide Harmonic Mixer(50-75GHz) | KEYSIGHT | M1970V | SUWI-03-53-01 | NCR | NCR |
| Waveguide Harmonic Mixer(75-110GHz) | KEYSIGHT | M1970W | SUWI-03-53-02 | NCR | NCR |
| Waveguide Harmonic Mixer(50-75GHz) cable | Silverline | SLU18-SMSM-01.00M | SUWI-03-54-01 | NCR | NCR |
| Waveguide Harmonic Mixer(75-110GHz) cable | Silverline | SLU18-SMSM-01.00M | SUWI-03-54-02 | NCR | NCR |
| Waveguide Harmonic Mixer(40-60GHz) cable | Silverline | SLU18-SMSM-01.00M | SUWI-03-54-03 | NCR | NCR |
| Waveguide Harmonic Mixer(110-170GHz) cable | Silverline | SLU18-SMSM-01.00M | SUWI-03-54-04 | NCR | NCR |
| Waveguide Harmonic Mixer(140-220GHz) cable | Silverline | SLU18-SMSM-01.00M | SUWI-03-54-05 | NCR | NCR |
| Waveguide Harmonic Mixer(220-325GHz) cable | Silverline | SLU18-SMSM-01.00M | SUWI-03-54-06 | NCR | NCR |



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7 Photographs - Setup Photos

Refer to Appendix A.1 FCC Setup Photos.



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Appendix



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Transmitter power and power spectral density

Test Result

| Channel (GHz) | Distance (cm) | Polarity | dBuV/m @ 0.5m | E.I.R.P. Power (dBm) | E.I.R.P. Limit (dBm) | Gain (dBi) | Conducted Power (dBm) | Limit (dBm) | Result | Remark |
|---------------|---------------|------------|---------------|----------------------|----------------------|------------|-----------------------|-------------|--------|---------|
| 58.32 | 50 | Horizontal | 149.6 | 38.84 | 43 | 22.5 | 16.34 | 27 | Pass | peak |
| | | Vertical | 149.3 | 38.54 | 43 | 22.5 | 16.04 | 27 | Pass | peak |
| | | Horizontal | 144.6 | 33.84 | 40 | 22.5 | / | / | Pass | Average |
| | | Vertical | 144.8 | 34.04 | 40 | 22.5 | / | / | Pass | Average |
| 60.48 | 50 | Horizontal | 149.2 | 38.44 | 43 | 22.5 | 15.94 | 27 | Pass | peak |
| | | Vertical | 148.5 | 37.74 | 43 | 22.5 | 15.24 | 27 | Pass | peak |
| | | Horizontal | 142.0 | 31.24 | 40 | 22.5 | / | / | Pass | Average |
| | | Vertical | 142.1 | 31.34 | 40 | 22.5 | / | / | Pass | Average |
| 62.64 | 50 | Horizontal | 149.3 | 38.54 | 43 | 22.5 | 16.04 | 27 | Pass | peak |
| | | Vertical | 149.3 | 38.54 | 43 | 22.5 | 16.04 | 27 | Pass | peak |
| | | Horizontal | 143.5 | 32.74 | 40 | 22.5 | / | / | Pass | Average |
| | | Vertical | 143.3 | 32.54 | 40 | 22.5 | / | / | Pass | Average |
| 64.80 | 50 | Horizontal | 149.4 | 38.64 | 43 | 22.5 | 16.14 | 27 | Pass | peak |
| | | Vertical | 148.5 | 37.74 | 43 | 22.5 | 15.24 | 27 | Pass | peak |
| | | Horizontal | 142.6 | 31.84 | 40 | 22.5 | / | / | Pass | Average |
| | | Vertical | 142.8 | 32.04 | 40 | 22.5 | / | / | Pass | Average |

Remark:

$E[\text{dB}\mu\text{V/m}] = \text{EIRP} [\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and d = distance at which field strength limit is specified in the rules

$\text{EIRP} [\text{dBm}] = E[\text{dB}\mu\text{V/m}] + 20 \log(d[\text{meters}]) - 104.77$



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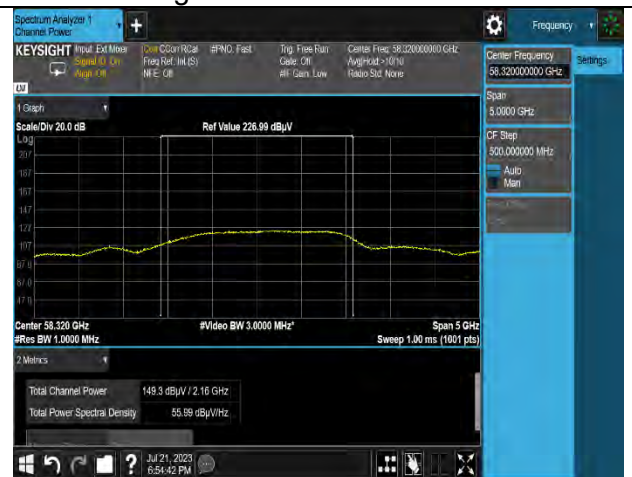
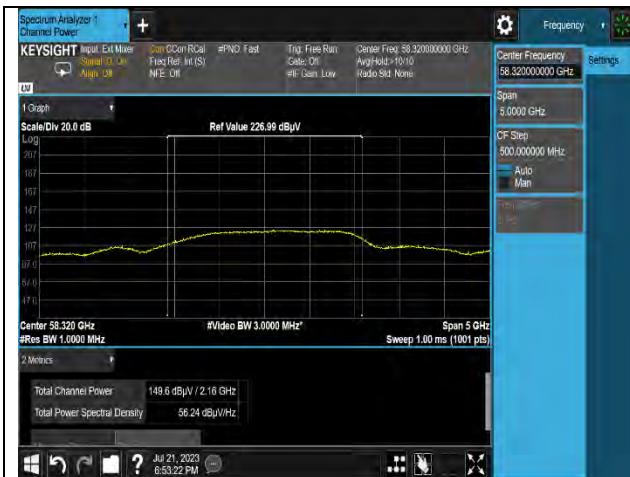
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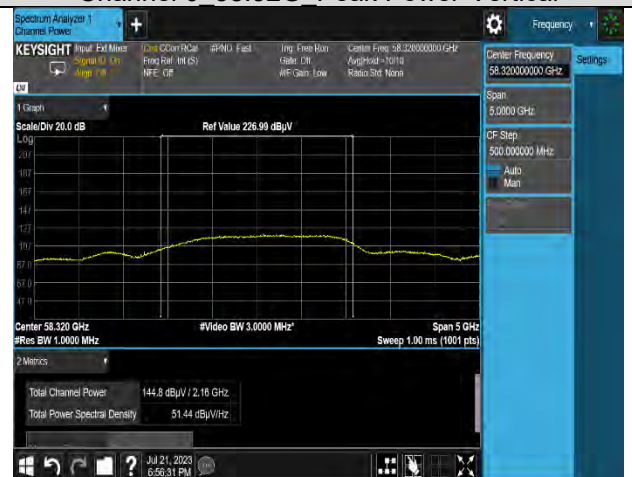
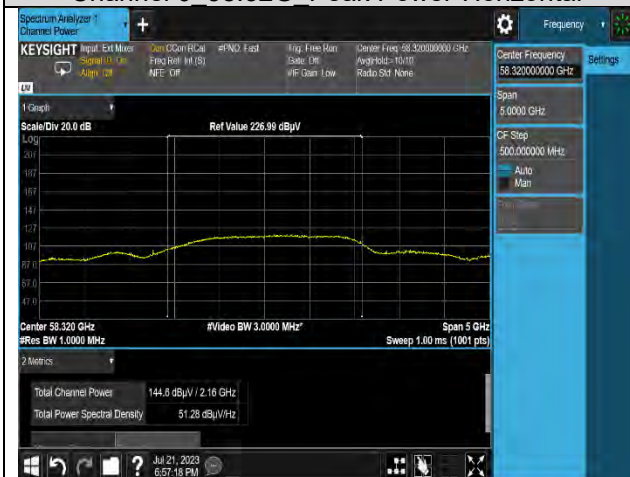
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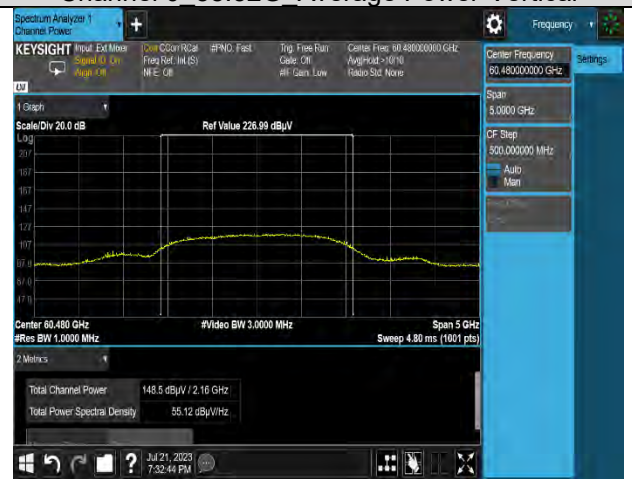
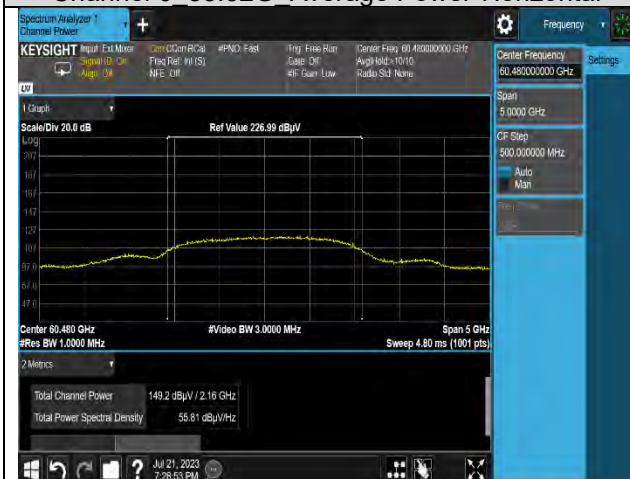
Channel 0 58.32G Peak Power-Horizontal

Channel 0 58.32G Peak Power-Vertical



Channel 0 58.32G Average Power-Horizontal

Channel 0 58.32G Average Power-Vertical



Channel 1 60.48G Peak Power-Horizontal

Channel 1 60.48G Peak Power-Vertical



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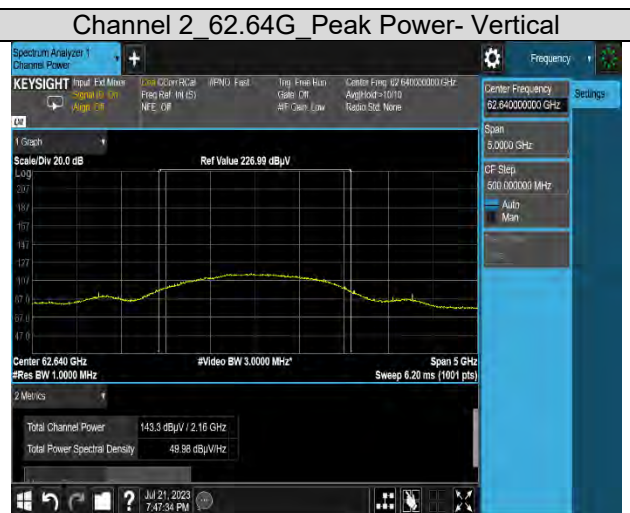
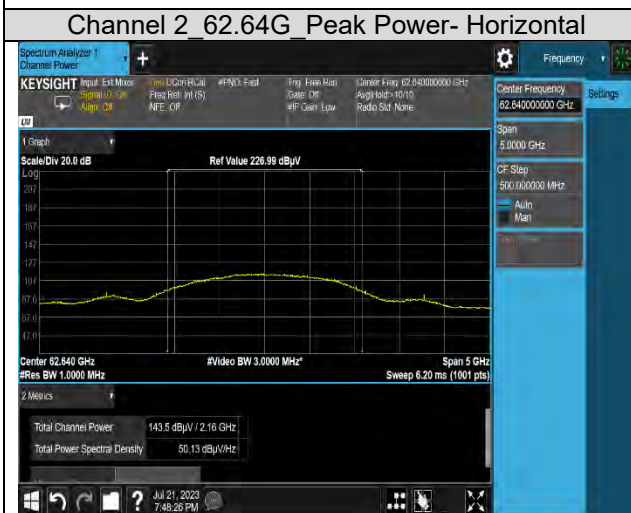
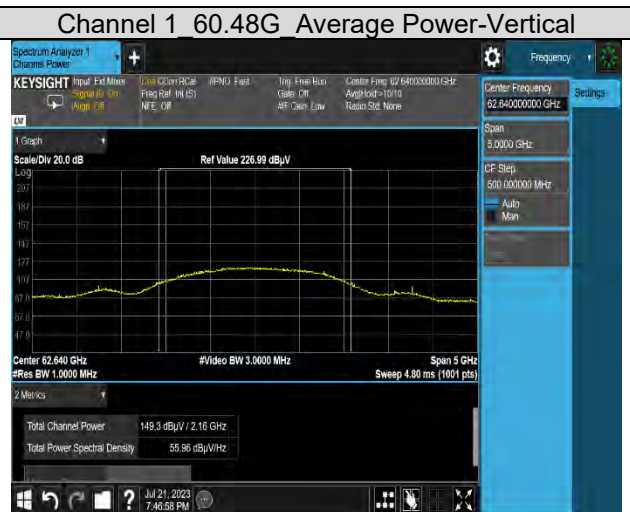
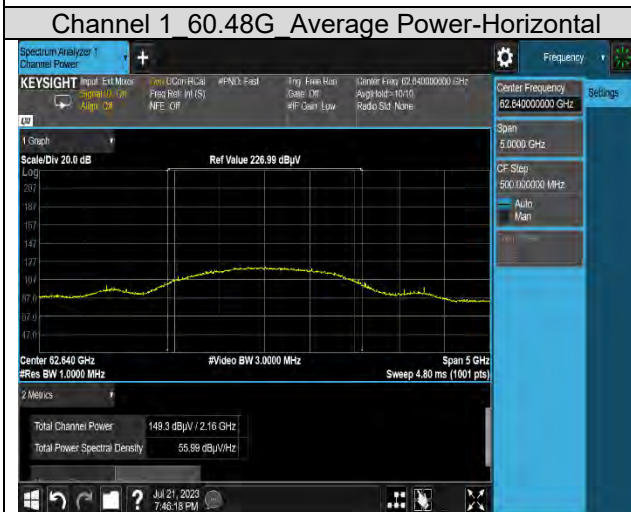
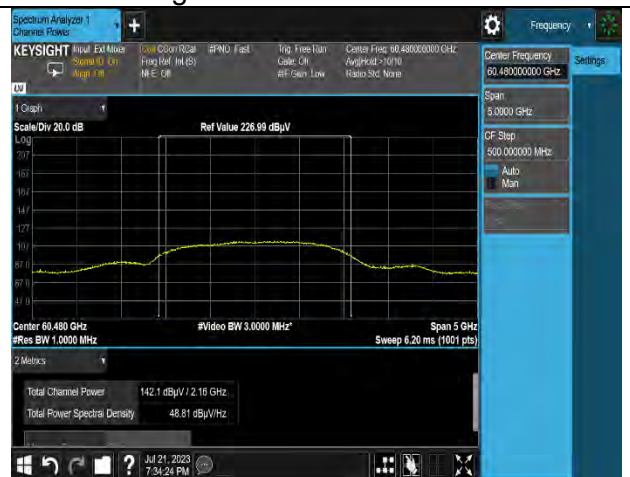
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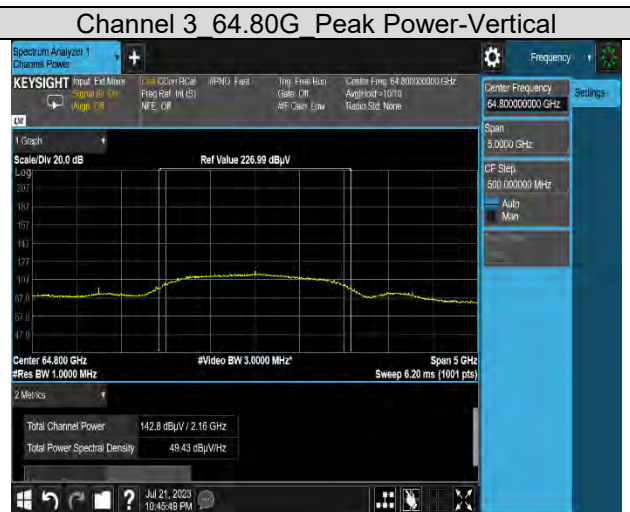
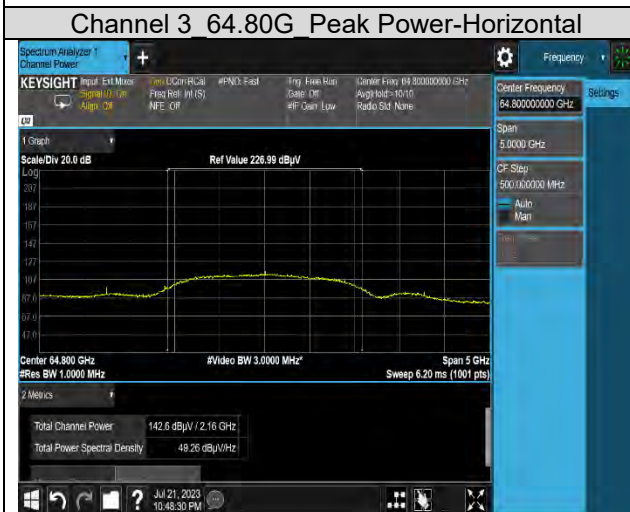
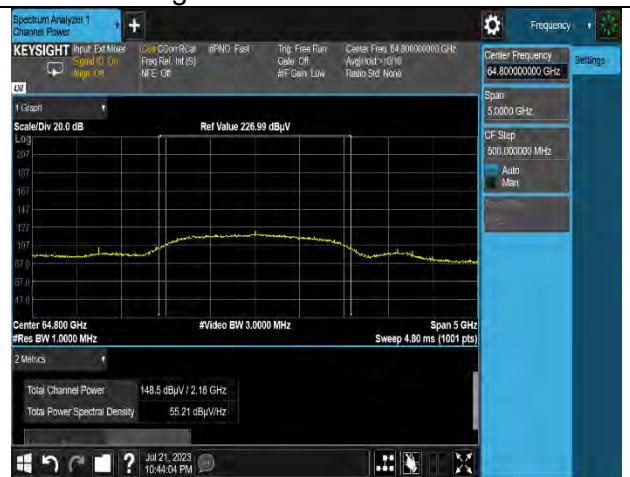
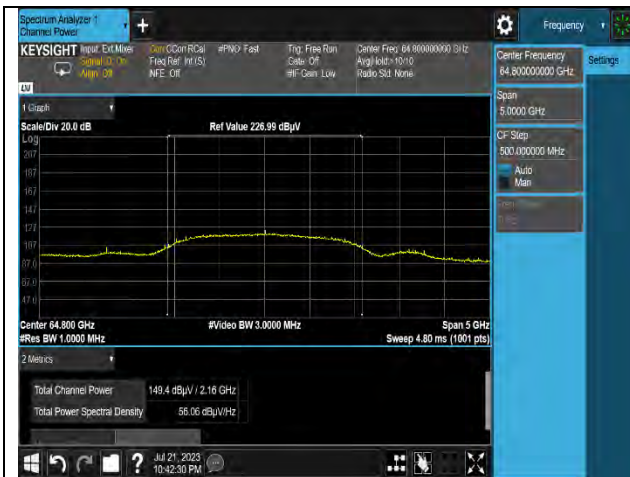
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Occupied bandwidth Test Result

| Channel (GHz) | 99% OCW (MHz) | -20dB OCW (MHz) | -6dB OCW (MHz) |
|---------------|---------------|-----------------|----------------|
| 58.32 | 2164.3 | 2400 | 1765 |
| 60.48 | 2165.8 | 2290 | 1655 |
| 62.64 | 2162.8 | 2240 | 1690 |
| 64.80 | 2162.1 | 2325 | 1610 |



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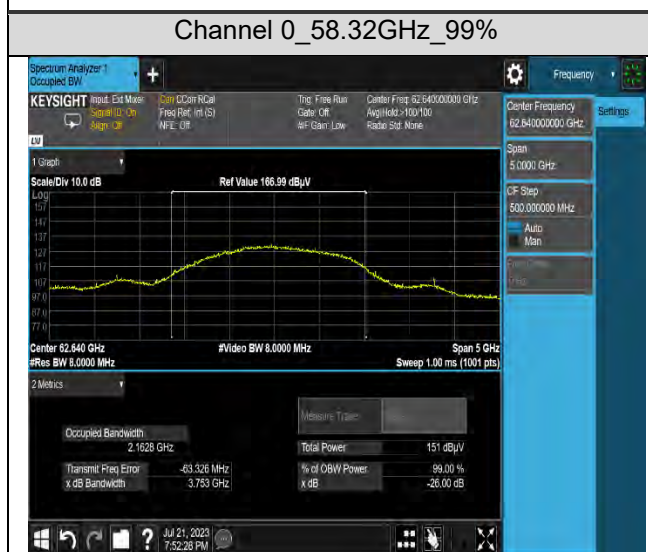
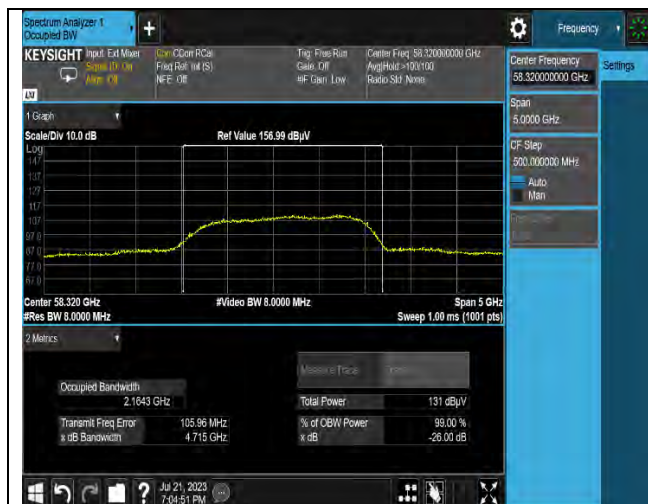
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Remark: Because the 1% -5% OBW is much larger than the maximum RBW of the spectrum analyzer, the maximum RBW of the spectrum analyzer is tested at 8MHz



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Channel 0_58.32GHz_20dB



Channel 1_60.48GHz_20dB



Channel 2_62.64GHz_20dB



Channel 3_64.8GHz_20dB

Remark: Because the 1% -5% OBW is much larger than the maximum RBW of the spectrum analyzer, the maximum RBW of the spectrum analyzer is tested at 8MHz



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Channel 0_58.32GHz_6dB



Channel 1_60.48GHz_6dB



Channel 2_62.64GHz_6dB



Channel 3_64.8GHz_6dB



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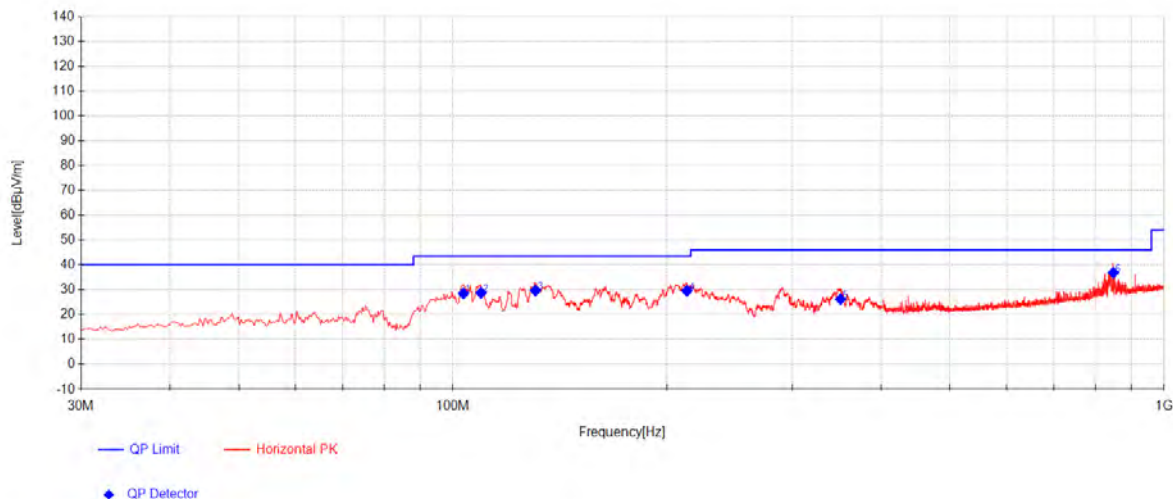
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Radiated spurious emissions below 40 GHz

Test Result

Below 1GHz-Horizontal



Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-----------|-------------|-------------------|-------------------|----------------|-------------|-----------|------------|
| 1 | 103.4775 | 46.22 | 15.81 | -33.45 | 28.58 | 43.50 | 14.92 | 142 | 123 | Horizontal |
| 2 | 109.54 | 45.83 | 16.36 | -33.39 | 28.79 | 43.50 | 14.71 | 159 | 123 | Horizontal |
| 3 | 130.6375 | 45.02 | 17.99 | -33.29 | 29.72 | 43.50 | 13.78 | 185 | 267 | Horizontal |
| 4 | 213.33 | 46.29 | 15.93 | -32.61 | 29.62 | 43.50 | 13.88 | 172 | 360 | Horizontal |
| 5 | 350.8275 | 38.19 | 19.92 | -31.85 | 26.26 | 46.00 | 19.74 | 136 | 228 | Horizontal |
| 6 | 848.4375 | 37.33 | 29.18 | -29.61 | 36.90 | 46.00 | 9.10 | 255 | 22 | Horizontal |



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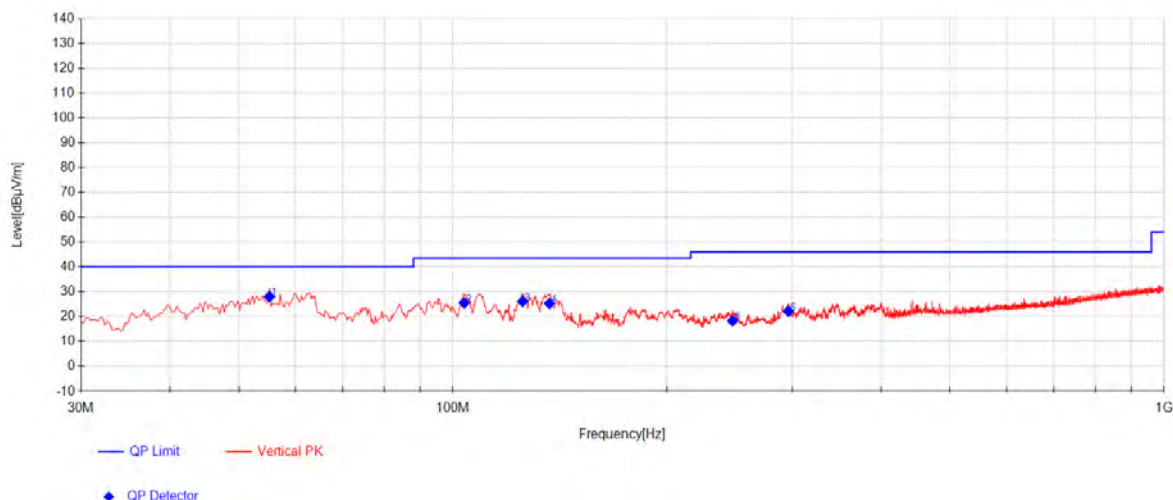
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Below 1GHz-Vertical



Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-----------|-------------|-------------------|-------------------|----------------|-------------|-----------|----------|
| 1 | 55.22 | 43.02 | 18.99 | -33.92 | 28.09 | 40.00 | 11.91 | 148 | 225 | Vertical |
| 2 | 103.72 | 43.19 | 15.83 | -33.45 | 25.58 | 43.50 | 17.92 | 128 | 32 | Vertical |
| 3 | 125.3025 | 41.85 | 17.64 | -33.31 | 26.18 | 43.50 | 17.32 | 177 | 360 | Vertical |
| 4 | 136.7 | 40.22 | 18.39 | -33.26 | 25.35 | 43.50 | 18.15 | 186 | 71 | Vertical |
| 5 | 247.28 | 33.59 | 17.23 | -32.47 | 18.35 | 46.00 | 27.65 | 196 | 359 | Vertical |
| 6 | 296.265 | 36.03 | 18.39 | -32.19 | 22.22 | 46.00 | 23.78 | 152 | 225 | Vertical |



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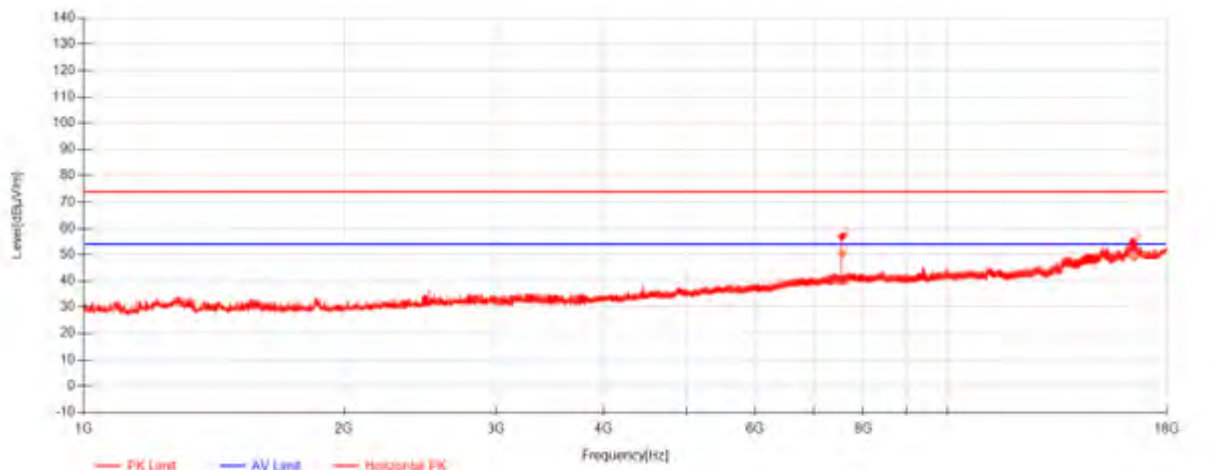
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1G~18GHz-Horizontal



| Data List | | | | | | | | | | |
|-----------|-----------------|-------------------|-----------|-------------|-------------------|----------------|----------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2484.5 | 53.62 | 27.26 | -47.57 | 33.30 | 74.00 | 40.70 | 142 | 37 | Horizontal |
| 2 | 7561 | 63.76 | 36.62 | -43.48 | 56.90 | 74.00 | 17.10 | 306 | 343 | Horizontal |
| 3 | 16426.5 | 49.55 | 40.52 | -35.26 | 54.82 | 74.00 | 19.18 | 224 | 360 | Horizontal |
| NO. | Frequency [MHz] | AV Reading [dBμV] | AF [dB/m] | Factor [dB] | AV Level [dBμV/m] | Limit [dBμV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 2 | 7561 | 57.21 | 36.62 | -43.48 | 50.35 | 54.00 | 3.65 | 306 | 343 | Horizontal |
| 3 | 16426.5 | 47.38 | 40.52 | -35.26 | 52.64 | 54.00 | 1.36 | 224 | 360 | Horizontal |



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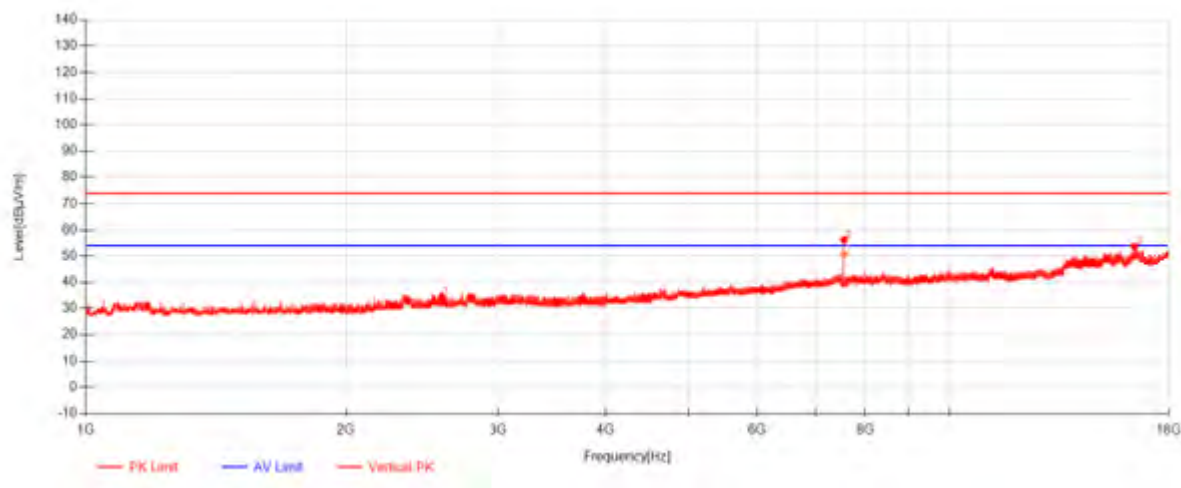
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1G~18GHz-Vertical



Data List

| NO. | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|-------------------|-----------|-------------|-------------------|----------------|----------------|-------------|-----------|----------|
| 1 | 2583.5 | 54.55 | 27.47 | -47.34 | 34.67 | 74.00 | 39.33 | 152 | 0 | Vertical |
| 2 | 7561 | 63.02 | 36.62 | -43.48 | 56.16 | 74.00 | 17.84 | 142 | 11 | Vertical |
| 3 | 16404.5 | 48.70 | 40.45 | -35.45 | 53.70 | 74.00 | 20.30 | 226 | 356 | Vertical |
| NO. | Frequency [MHz] | AV Reading [dBμV] | AF [dB/m] | Factor [dB] | AV Level [dBμV/m] | Limit [dBμV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 2 | 7561 | 57.55 | 36.62 | -43.48 | 50.69 | 54.00 | 3.31 | 142 | 11 | Vertical |



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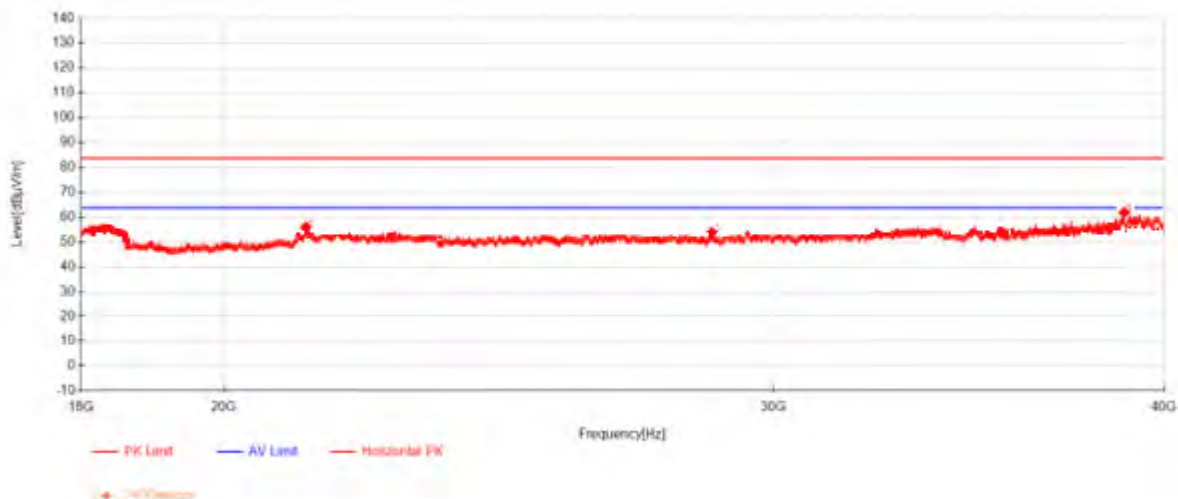
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18G~40GHz-Horizontal



| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 21245.55 | 54.03 | 37.80 | -35.99 | 55.83 | 83.50 | 27.67 | 109 | 240 | Horizontal |
| 2 | 28656.25 | 50.75 | 39.43 | -36.55 | 53.62 | 83.50 | 29.88 | 198 | 50 | Horizontal |
| 3 | 38840.6 | 51.12 | 43.14 | -32.48 | 61.78 | 83.50 | 21.72 | 240 | 200 | Horizontal |



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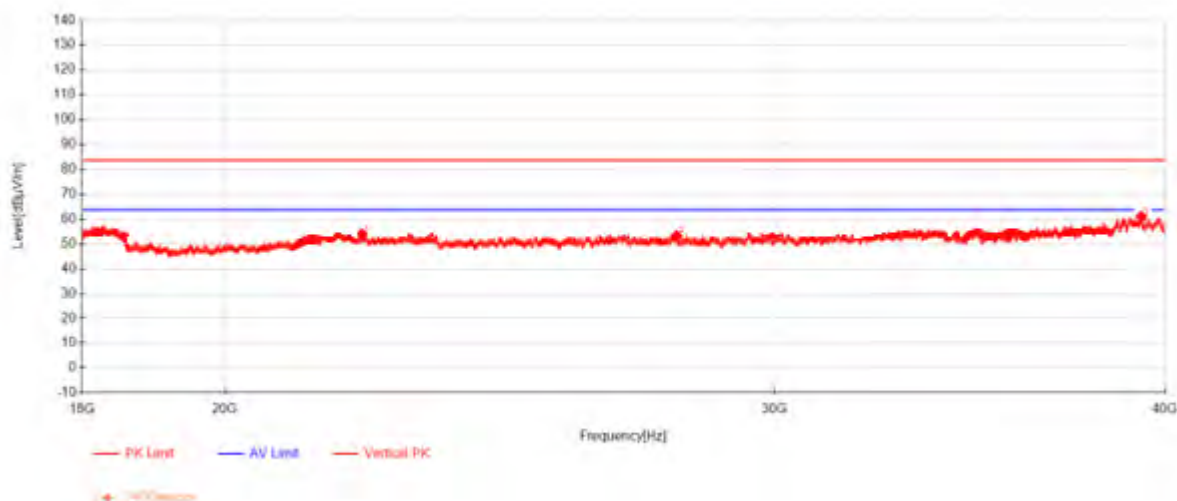
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18G~40GHz -Vertical



Data List

| NO. | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| 1 | 22126.65 | 52.27 | 37.85 | -36.17 | 53.95 | 83.50 | 29.55 | 109 | 250 | Vertical |
| 2 | 27898.9 | 49.69 | 39.00 | -35.48 | 53.21 | 83.50 | 30.29 | 256 | 100 | Vertical |
| 3 | 39307.55 | 50.34 | 43.05 | -32.38 | 61.00 | 83.50 | 22.50 | 269 | 70 | Vertical |

Remark: All channels have test and only the worst data showed in the report.



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Radiated emissions outside assigned band and above 40 GHz up to 200 GHz

Test Result



Channel 0_40-50GHz-Horizontal



Channel 0_40-50GHz-Vertical



Channel 0_50-75GHz-Horizontal



Channel 0_50-75GHz-Vertical

| Frequency (GHz) | Distance (M) | Peak Value (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 42.53 | 0.5 | 84.22 | 100.87 | H | PASS |
| 42.51 | 0.5 | 96.55 | 100.87 | V | PASS |
| 60.700 | 0.5 | 80.84 | 100.87 | H | PASS |
| 60.375 | 0.5 | 83.06 | 100.87 | V | PASS |



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Channel 0 75-110GHz-Horizontal



Channel 0 75-110GHz-Vertical



Channel 0 110-170GHz-Horizontal



Channel 0 110-170GHz-Vertical

| Frequency (GHz) | Distance (M) | Peak Value (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 83.575 | 0.5 | 79.88 | 100.87 | H | PASS |
| 84.485 | 0.5 | 80.02 | 100.87 | V | PASS |
| 115.88 | 0.5 | 80.99 | 100.87 | H | PASS |
| 115.88 | 0.5 | 80.85 | 100.87 | V | PASS |



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Channel 0_170-220GHz-Horizontal



Channel 0_170-220GHz-Vertical



Channel 1_40-50GHz-Horizontal



Channel 1_40-50GHz-Vertical

| Frequency (GHz) | Distance (M) | Peak Value (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 216.65 | 0.5 | 88.50 | 100.87 | H | PASS |
| 217.00 | 0.5 | 88.47 | 100.87 | V | PASS |
| 43.85 | 0.5 | 84.96 | 100.87 | H | PASS |
| 43.88 | 0.5 | 94.35 | 100.87 | V | PASS |



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Channel 1_50-75GHz-Horizontal

Channel 1_50-75GHz-Vertical



Channel 1_75-110GHz-Horizontal

Channel 1_75-110GHz-Vertical

| Frequency (GHz) | Distance (M) | Peak Value (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 60.300 | 0.5 | 80.93 | 100.87 | H | PASS |
| 60.200 | 0.5 | 77.44 | 100.87 | V | PASS |
| 81.720 | 0.5 | 89.06 | 100.87 | H | PASS |
| 81.720 | 0.5 | 86.86 | 100.87 | V | PASS |



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Channel 1_110-170GHz-Horizontal

Channel 1_110-170GHz-Vertical



Channel 1_170-220GHz-Horizontal

Channel 1_170-220GHz-Vertical

| Frequency (GHz) | Distance (M) | Peak Value (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 116.00 | 0.5 | 81.66 | 100.87 | H | PASS |
| 116.00 | 0.5 | 81.55 | 100.87 | V | PASS |
| 214.95 | 0.5 | 88.28 | 100.87 | H | PASS |
| 209.45 | 0.5 | 88.31 | 100.87 | V | PASS |



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Channel 2_40-50GHz-Horizontal



Channel 2_40-50GHz-Vertical



Channel 2_50-75GHz-Horizontal



Channel 2_50-75GHz-Vertical

| Frequency (GHz) | Distance (M) | Peak Value (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 45.68 | 0.5 | 84.10 | 100.87 | H | PASS |
| 45.51 | 0.5 | 94.06 | 100.87 | V | PASS |
| 60.225 | 0.5 | 81.88 | 100.87 | H | PASS |
| 60.300 | 0.5 | 82.76 | 100.87 | V | PASS |



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Channel 2 75-110GHz-Horizontal

Channel 2 75-110GHz-Vertical



Channel 2 110-170GHz-Horizontal

Channel 2 110-170GHz-Vertical

| Frequency (GHz) | Distance (M) | Peak Value (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 84.555 | 0.5 | 84.88 | 100.87 | H | PASS |
| 83.435 | 0.5 | 85.82 | 100.87 | V | PASS |
| 115.94 | 0.5 | 80.60 | 100.87 | H | PASS |
| 116.00 | 0.5 | 80.38 | 100.87 | V | PASS |



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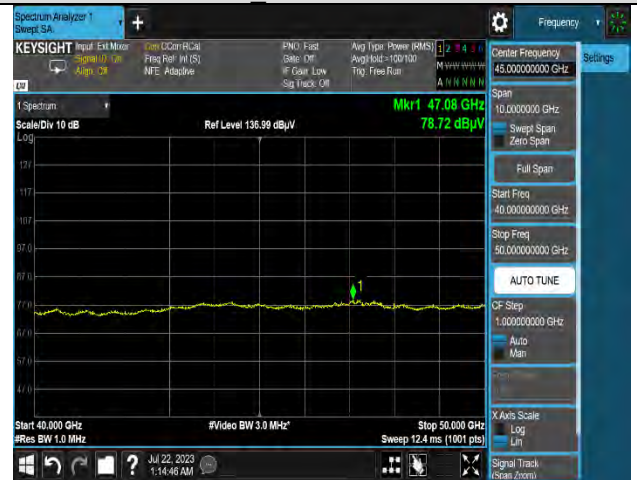
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Channel 2 170-220GHz-Horizontal

Channel 2 170-220GHz-Vertical



Channel 3 40-50GHz-Horizontal

Channel 3 40-50GHz-Vertical

| Frequency (GHz) | Distance (M) | Peak Value (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 219.20 | 0.5 | 88.39 | 100.87 | H | PASS |
| 219.05 | 0.5 | 88.42 | 100.87 | V | PASS |
| 47.59 | 0.5 | 82.34 | 100.87 | H | PASS |
| 47.08 | 0.5 | 78.72 | 100.87 | V | PASS |



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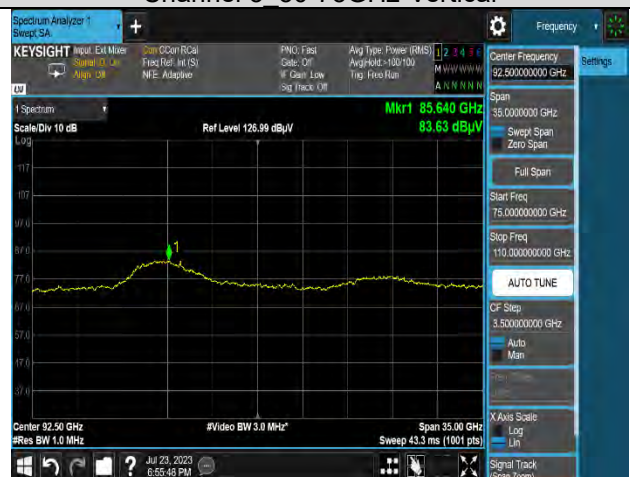
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Channel 3_50-75GHz-Horizontal

Channel 3_50-75GHz-Vertical



Channel 3_75-110GHz-Horizontal

Channel 3_75-110GHz-Vertical

| Frequency (GHz) | Distance (M) | Peak Value (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 60.700 | 0.5 | 82.77 | 100.87 | H | PASS |
| 60.250 | 0.5 | 83.11 | 100.87 | V | PASS |
| 85.535 | 0.5 | 84.39 | 100.87 | H | PASS |
| 85.640 | 0.5 | 83.63 | 100.87 | V | PASS |



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Channel 3 11-170GHz-Horizontal

Channel 3 110-170GHz-Vertical



Channel 3 170-220GHz-Horizontal

Channel 3 170-220GHz-Vertical

| Frequency (GHz) | Distance (M) | Peak Value (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 116.00 | 0.5 | 79.37 | 100.87 | H | PASS |
| 116.00 | 0.5 | 79.60 | 100.87 | V | PASS |
| 216.75 | 0.5 | 88.42 | 100.87 | H | PASS |
| 215.10 | 0.5 | 88.47 | 100.87 | V | PASS |



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Frequency stability Test Result

Frequency Stability vs temperature:

| Frequency (GHz) | Temperature (°C) | Voltage (V ac) | F _L (GHz) | Limit (GHz) | F _H (GHz) | Limit (GHz) | Result |
|-----------------|------------------|----------------|----------------------|-------------|----------------------|-------------|--------|
| 57-66 | 50 | 120 | 57.151 | 57 | 65.941 | 71 | Pass |
| | 40 | 120 | 57.148 | 57 | 65.959 | 71 | Pass |
| | 30 | 120 | 57.149 | 57 | 65.943 | 71 | Pass |
| | 20 | 120 | 57.152 | 57 | 65.960 | 71 | Pass |
| | 10 | 120 | 57.145 | 57 | 65.955 | 71 | Pass |
| | 0 | 120 | 57.155 | 57 | 65.958 | 71 | Pass |
| | -10 | 120 | 57.141 | 57 | 65.955 | 71 | Pass |
| | -20 | 120 | 57.147 | 57 | 65.946 | 71 | Pass |

Frequency Stability vs voltage:

| Frequency (GHz) | Voltage (V ac) | Temperature (°C) | F _L (GHz) | Limit (GHz) | F _H (GHz) | Limit (GHz) | Result |
|-----------------|----------------|------------------|----------------------|-------------|----------------------|-------------|--------|
| 57-66 | 102 | 20 | 57.142 | 57 | 65.946 | 71 | Pass |
| | 120 | 20 | 57.153 | 57 | 65.953 | 71 | Pass |
| | 138 | 20 | 57.149 | 57 | 65.947 | 71 | Pass |

---End of Report---



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t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com