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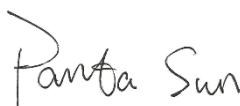
TEST REPORT

| | |
|--------------------------------|--|
| Application No.: | HR/2021/C0001 |
| Applicant: | Honor Device Co., Ltd. |
| Address of Applicant | Suite 3401,Unit A, Building 6, Shum Yip Sky Park, No.8089,Hongli West Road, Xiangmihu Street, Futian District, Shenzhen,Guangdong 518040, People's Republic of China |
| Manufacturer: | Honor Device Co., Ltd. |
| Address of Manufacturer | Suite 3401,Unit A, Building 6, Shum Yip Sky Park, No.8089,Hongli West Road, Xiangmihu Street, Futian District, Shenzhen,Guangdong 518040, People's Republic of China |
| EUT Description: | Smart Phone |
| Model No.: | NTN-LX3 |
| Trade Mark: | HONOR |
| FCC ID: | 2AYGCNTN-LX3 |
| Standards: | 47 CFR FCC Part 2, Subpart J 47 CFR FCC Part 15, Subpart E |
| Date of Receipt: | 2021/12/8 |
| Date of Test: | 2021/12/15 to 2021/12/18 |
| Date of Issue: | 2021/12/18 |

| | |
|----------------------|---------------|
| Test Result : | PASS * |
|----------------------|---------------|

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

Authorized Signature:



Panta Sun
Wireless Laboratory Manager



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1 Version

Revision Record

| Version | Chapter | Date | Modifier | Remark |
|---------|---------|------------|----------|----------|
| 01 | | 2021/12/18 | | Original |
| | | | | |
| | | | | |

| | | |
|-------------------------------|--|------------|
| Prepared By | | Weller Liu |
| <hr/> (Weller Liu) / Engineer | | |
| Checked By | | Well Wei |
| <hr/> (Well Wei) / Reviewer | | |

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2 Test Summary

| Test Item | Band ^[1] | FCC rules | Test Requirements | Test Result | Result |
|---|--|---------------------|---|-------------|-----------------------------|
| Antenna Requirement | -- | 15.203/407(a) | -- | Clause 4.1 | Refer to HR/2021/1001405-01 |
| 26dB Emission Bandwidth | Band I | 15.407(a)(1) | No limit. | Clause 4.5 | Refer to HR/2021/1001405-01 |
| | Band II-A | 15.407(a)(2) | | | |
| | Band II-C | 15.407(a)(2) | | | |
| 6dB Emission Bandwidth | Band III | 15.407(e) | ≥ 500 kHz. | Clause 4.6 | Refer to HR/2021/1001405-01 |
| 99% Occupied Bandwidth | Band I | KDB 789033 D02§ D | No limit. | Clause 4.7 | Refer to HR/2021/1001405-01 |
| | Band II-A | | | | |
| | Band II-C | | | | |
| | Band III | | | | |
| Duty Cycle | Band I Band II-A Band II-C Band III | -- | No limit. | Clause 4.3 | Refer to HR/2021/1001405-01 |
| Maximum Output Power | Band I | 15.407(a) | < 250mW | Clause 4.4 | Refer to HR/2021/1001405-01 |
| | Band II-A | 15.407(a)(2) | <MIN{250mW, 11dBm+10*lg(EBW)} | | |
| | Band II-C | 15.407(a)(3) | < 1W | | |
| Maximum Power Spectral Density | Band I | 15.407(a) | <11dBm/MHz | Clause 4.8 | Refer to HR/2021/1001405-01 |
| | Band II-A | 15.407(a)(2) | <11dBm/MHz | | |
| | Band II-C | 15.407(a)(3) | <30dBm/500KHz | | |
| | Band III | 15.209 15.407(b) | F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). | Clause 4.9 | PASS |
| Unwanted Emissions that fall Out of the Restricted Bands (Radiated) | Band I | 15.407(b) 15.209 | F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). | | PASS |
| | Band II-A | 15.407(b) 15.209 | F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). | | PASS |
| | Band II-C | 15.407(b) 15.209 | F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). | | PASS |
| | Band III | 15.407(b) | F<1GHz: | | PASS |

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| | | | | | |
|---|--|-------------------------------------|---|-------------|-----------------------------|
| | | 15.209 | <p>§15.209/§7.2.5 limit (QP) $F \geq 1\text{GHz}$ & out-restricted: (QP)</p> <p>a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;</p> <p>b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;</p> <p>c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and</p> <p>d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.</p> <p>$F \geq 1\text{GHz}$ & in-restricted: $\\$15.209/\\$7.2.5$ limit (AV&PK).</p> | | |
| Unwanted Emissions in the Restricted Bands (Radiated) | Band I Band II-A Band II-C Band III | 15.209 | --- | Clause 4.10 | PASS |
| AC Power Line Conducted Emissions | Band I Band II-A Band II-C Band III | 15.207 | --- | Clause 4.2 | PASS |
| Frequency Stability | Band I Band II-A Band II-C Band III | 15.407(g) | --- | Clause 4.11 | Refer to HR/2021/1001405-01 |
| Dynamic Frequency Selection | Band II-A Band II-C | 47 CFR Part 15, Subpart E 15.407 | Channel Move Time:10 Seconds | Clause 4.12 | Refer to HR/2021/1001405-01 |

Note 1 :

Band I: 5150-5250MHz
 Band II-A: 5250-5350MHz
 Band II-C: 5470-5725MHz
 Band III: 5725-5850MHz

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Remark:

This test report (Report No.: SUHR/2021/C000106) is based on the original test report (Report No.: HR/2021/1001405-01) issued on 2021-05-15.

According to the difference declaration from the applicant, radiation spurious emissions and Conducted Emission are performed based on the worst case of the original report and the other test data can be referred to the original test report.



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3 General Information

3.1 Details of Client

| | |
|--------------------------|---|
| Applicant: | Honor Device Co., Ltd. |
| Address of Applicant: | Suite 3401,Unit A, Building 6, Shum Yip Sky Park, No.8089,Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China |
| Manufacturer: | Honor Device Co., Ltd. |
| Address of Manufacturer: | Suite 3401,Unit A, Building 6, Shum Yip Sky Park, No.8089,Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China |

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: | Weller Liu, King-p Li, Nature Shen, Tizzy Song |

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:0031225543

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3.4 General Description of EUT

| | |
|---------------------------------|---|
| EUT Description: | Smart Phone |
| Model No.: | NTN-LX3 |
| Trade Mark: | HONOR |
| Hardware Version: | HL1NTNM |
| Software Version: | 11.0.2.88(C900E85R1P3) |
| IEEE 802.11 WLAN Mode Supported | <input checked="" type="checkbox"/> 802.11a (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ac (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac (40 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac (80 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac (160 MHz channel bandwidth) |
| Operation Frequency: | IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5150MHz to 5250MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80/160): 5250MHz to 5350MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80/160): 5470MHz to 5725MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5725MHz to 5850MHz |
| Type of Modulation: | OFDM |
| DFS mode: | <input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection |
| Sample Type: | <input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module |
| Antenna Type: | <input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated |
| Antenna Ports | <input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3 |
| Smart System | <input checked="" type="checkbox"/> SISO (for 802.11a/n/ac), <input type="checkbox"/> MIMO (for 802.11n/ac), <input type="checkbox"/> Diversity (for 802.11a). |
| Antenna Gain*: | <input checked="" type="checkbox"/> Provided by applicant -1.1dBi |
| RF Cable*: | <input checked="" type="checkbox"/> Provided by applicant 0.5dB(0.6~1GHz); 0.8dB(1.4~2GHz); 1.0dB(2.1~2.7GHz); 1.5dB(3~4GHz); 1.8dB(4.4~6GHz); |
| Remark: | <p>*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p> |

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Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

| Frequency Range of Operation Operating Frequency Range (in each Band) | Number of Measurement Frequencies Required | Location of Measurement Frequency in Band of Operation |
|---|---|---|
| 1 MHz or less | 1 | centre |
| 1 MHz to 10 MHz | 2 | 1 near high end, 1 near low end |
| Greater than 10 MHz | 3 | 1 near high end, 1 near centre |

For UNII Band I:

| Mode | Channel | Frequency(MHz) |
|-------------------------|---------------------|----------------|
| IEEE 802.11a/n/ac 20MHz | The Lowest channel | 5180 |
| | The Middle channel | 5200 |
| | The Highest channel | 5240 |
| IEEE 802.11n/ac 40MHz | The Lowest channel | 5190 |
| | The Highest channel | 5230 |
| IEEE 802.11ac 80MHz | The Middle channel | 5210 |

For UNII Band II-A:

| Mode | Channel | Frequency(MHz) |
|-------------------------|---------------------|----------------|
| IEEE 802.11a/n/ac 20MHz | The Lowest channel | 5260 |
| | The Middle channel | 5280 |
| | The Highest channel | 5320 |
| IEEE 802.11n/ac 40MHz | The Lowest channel | 5270 |
| | The Highest channel | 5310 |
| IEEE 802.11ac 80MHz | The Middle channel | 5290 |

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For UNII Band II-C:

| Mode | Channel | Frequency(MHz) |
|-------------------------|---------------------|----------------|
| IEEE 802.11a/n/ac 20MHz | The Lowest channel | 5500 |
| | The Middle channel | 5580 |
| | The Highest channel | 5700 |
| IEEE 802.11n/ac 40MHz | The Lowest channel | 5510 |
| | The Middle channel | 5550 |
| | The Highest channel | 5670 |
| IEEE 802.11ac 80MHz | The Lowest channel | 5530 |
| | The Highest channel | 5610 |

For UNII Band III:

| Mode | Channel | Frequency(MHz) |
|-------------------------|---------------------|----------------|
| IEEE 802.11a/n/ac 20MHz | The Lowest channel | 5745 |
| | The Middle channel | 5785 |
| | The Highest channel | 5825 |
| IEEE 802.11n/ac 40MHz | The Lowest channel | 5755 |
| | The Highest channel | 5795 |
| IEEE 802.11ac 80MHz | The Middle channel | 5775 |

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3.5 Test Environment and Mode

| Environment Parameter | 101 KPa Selected Values During Tests | |
|-----------------------|--------------------------------------|------------|
| Relative Humidity | 44~46% RH Ambient | |
| Value | Temperature(°C) | Voltage(V) |
| NTNV | 22~23 | 3.87 |
| LTNV | -10 | 3.87 |
| HTNV | 55 | 3.87 |

Remark:
NV: Normal Voltage
NT: Normal Temperature
LT: Low Extreme Test Temperature
HT: High Extreme Test Temperature

3.6 Description of Support Units

The EUT has been tested independent unit.

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4 Test results and Measurement Data

4.1 Antenna Requirement

| | |
|--|-------------------------------|
| Standard requirement: | 47 CFR Part 15 Section 15.203 |
| The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is -1.1dBi. | |



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4.2 AC Power Line Conducted Emissions

| | | | |
|--|---|-----------|--------------|
| Test Requirement: | 47 CFR Part 15 Section 15.407(b) | | |
| Test Method: | ANSI C63.10: 2013 | | |
| Test Frequency Range: | 150kHz to 30MHz | | |
| Limit: | Frequency range (MHz) | | Limit (dBuV) |
| | | | Quasi-peak |
| | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | 0.5-5 | 56 | 46 |
| | 5-30 | 60 | 50 |
| * Decreases with the logarithm of the frequency. | | | |
| Test Procedure: | <ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. | | |

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| | |
|------------------------|--|
| Test Setup: | |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. |
| Final Test Mode: | Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report. |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |

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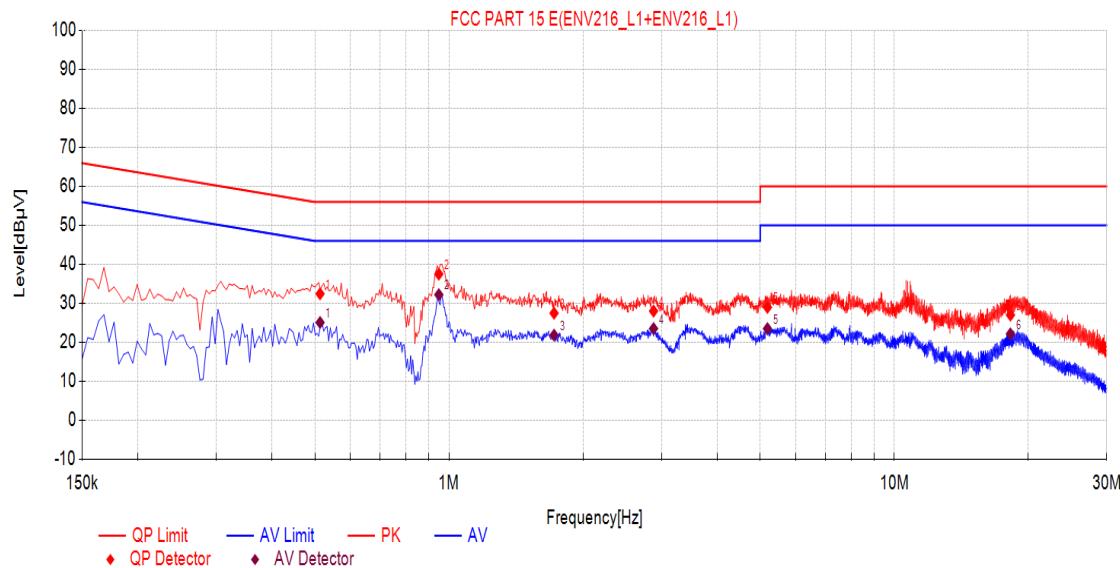
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Measurement Data

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.

Live Line:



| Final Data List | | | | | | | | | |
|-----------------|-------------|-------------|-----------------------|-----------------------|----------------|-----------------------|-----------------------|----------------|---------|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dB μ V] | QP Limit [dB μ V] | QP Margin [dB] | AV Value [dB μ V] | AV Limit [dB μ V] | AV Margin [dB] | Verdict |
| 1 | 0.5136 | 9.61 | 32.44 | 56.00 | 23.56 | 25.06 | 46.00 | 20.94 | PASS |
| 2 | 0.9491 | 9.55 | 37.49 | 56.00 | 18.51 | 32.21 | 46.00 | 13.79 | PASS |
| 3 | 1.7224 | 9.74 | 27.45 | 56.00 | 28.55 | 21.83 | 46.00 | 24.17 | PASS |
| 4 | 2.8805 | 9.66 | 28.00 | 56.00 | 28.00 | 23.50 | 46.00 | 22.50 | PASS |
| 5 | 5.1912 | 9.65 | 28.97 | 60.00 | 31.03 | 23.48 | 50.00 | 26.52 | PASS |
| 6 | 18.2335 | 9.47 | 26.99 | 60.00 | 33.01 | 22.14 | 50.00 | 27.86 | PASS |

Remark:

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

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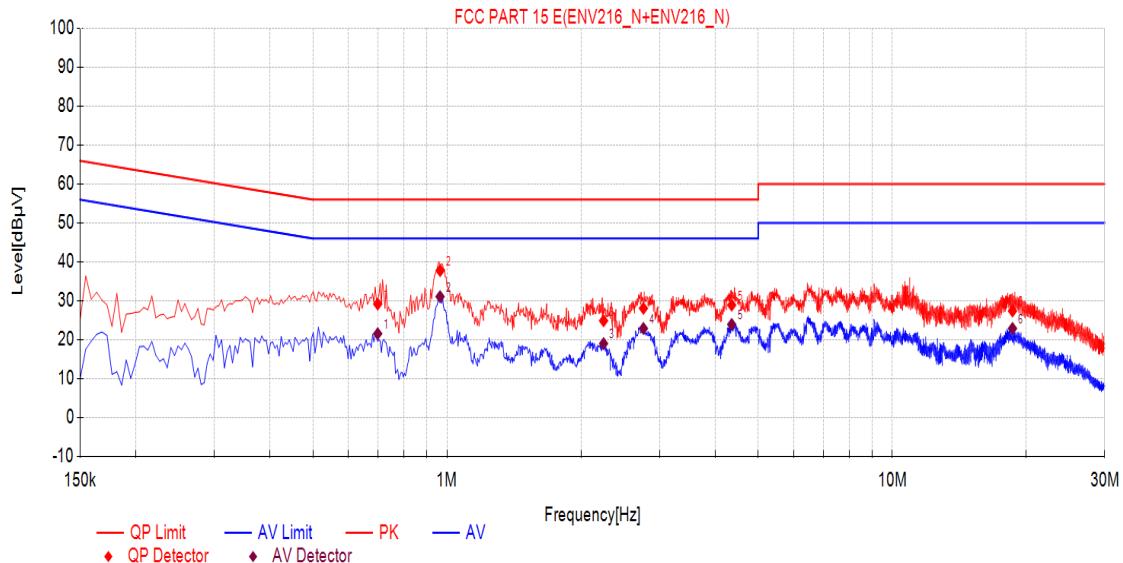
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Neutral Line:



| Final Data List | | | | | | | | | |
|-----------------|-------------|-------------|-----------------------|-----------------------|----------------|-----------------------|-----------------------|----------------|---------|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dB μ V] | QP Limit [dB μ V] | QP Margin [dB] | AV Value [dB μ V] | AV Limit [dB μ V] | AV Margin [dB] | Verdict |
| 1 | 0.6991 | 9.81 | 29.16 | 56.00 | 26.84 | 21.53 | 46.00 | 24.47 | PASS |
| 2 | 0.9654 | 9.68 | 37.77 | 56.00 | 18.23 | 31.06 | 46.00 | 14.94 | PASS |
| 3 | 2.2478 | 9.78 | 24.86 | 56.00 | 31.14 | 18.99 | 46.00 | 27.01 | PASS |
| 4 | 2.7622 | 9.68 | 28.06 | 56.00 | 27.94 | 22.89 | 46.00 | 23.11 | PASS |
| 5 | 4.3598 | 9.71 | 28.89 | 56.00 | 27.11 | 23.90 | 46.00 | 22.10 | PASS |
| 6 | 18.6187 | 9.45 | 27.37 | 60.00 | 32.63 | 22.87 | 50.00 | 27.13 | PASS |

Remark:

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

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4.3 Duty Cycle

The detailed test data see: **Appendix of HR/2021/1001405-01**



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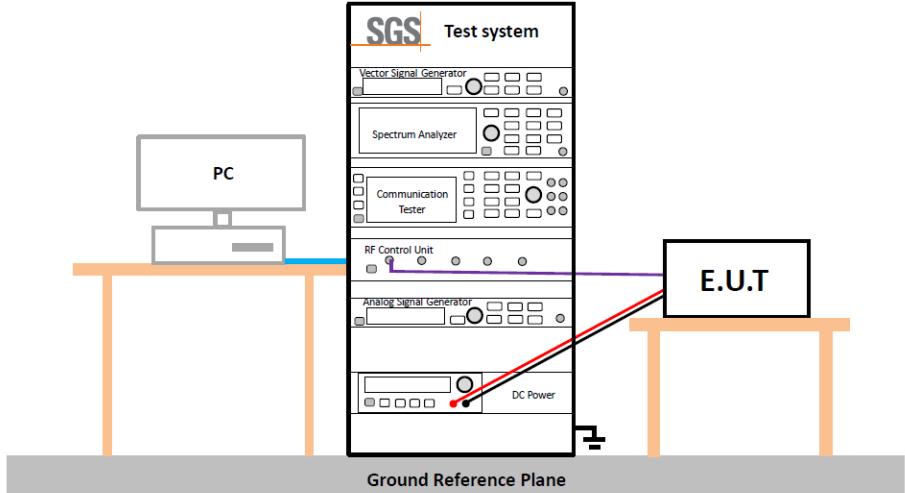
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4.4 Output Power

| | | |
|---|---|---|
| Test Requirement: | 47 CFR Part 15 Section 15.407(a) | |
| Test Method: | ANSI C63.10 :2013 | |
| Test Setup: |  | |
| Test Instruments: | Refer to section 6 for details | |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates | |
| Final Test Mode: | Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report. | |
| Limit: | Frequency Band | Limit |
| | 5150-5250MHz | Not exceed 250mW(24dBm) |
| | 5250-5350MHz | The lesser of 250mW(24dBm) or $11 + 10\log B$ |
| | 5470-5725MHz | The lesser of 250mW(24dBm) or $11 + 10\log B$ |
| | 5725-5850MHz | Not exceed 1W(30dBm) |
| | *Where B is the 26dB emission bandwidth in MHz | |
| Test Results: | Pass | |
| The detailed test data see: Appendix of HR/2021/1001405-01 | | |

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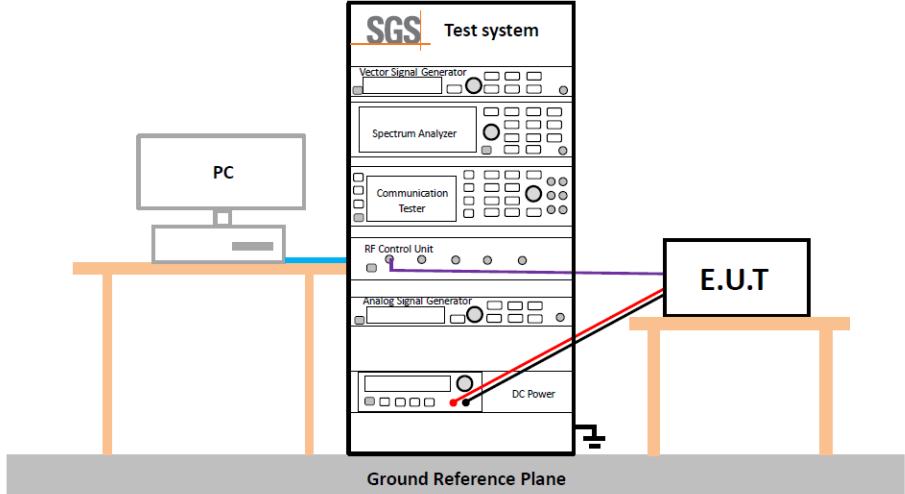
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4.5 26dB Emission Bandwidth

| | |
|---|--|
| Test Requirement: | 47 CFR Part 15 Section 15.407(a) |
| Test Method: | ANSI C63.10: 2013 |
| Test Setup: |  |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report. |
| Limit: | No restriction limits |
| Test Results: | Pass |
| The detailed test data see: Appendix of HR/2021/1001405-01 | |



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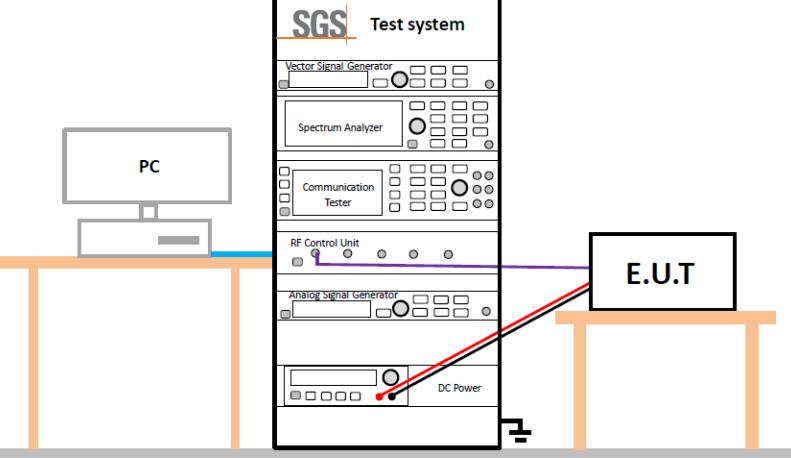
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4.6 6dB Emission Bandwidth

| | | |
|--|--|-----------------|
| Test Requirement: | 47 CFR Part 15 Section 15.407(e) | |
| Test Method: | ANSI C63.10: 2013 | |
| Test Setup: |  | |
| Test Instruments: | Refer to section 6 for details | |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates | |
| Final Test Mode: | <p>Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20) ;</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT20).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT40).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT80).</p> <p>Only the worst case is recorded in the report.</p> | |
| Limit: | Frequency Band | Limit |
| | 5725-5850MHz | At lease 500kHz |
| Test Results: | Pass | |
| The detailed test data see: Appendix of HR/2021/1001405-01 | | |

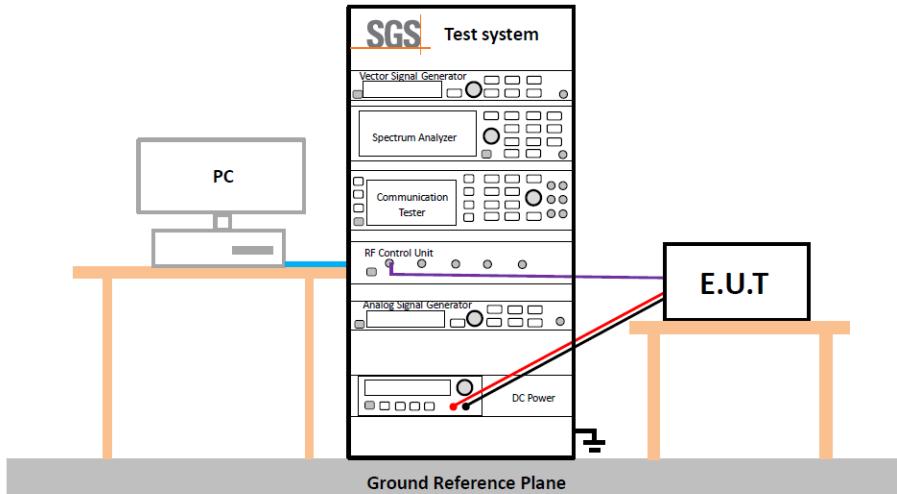
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4.7 99% Occupied Bandwidth

| | |
|---|---|
| Test Requirement: | KDB 789033 D02§ D |
| Test Method: | ANSI C63.10: 2013 |
| Test Setup: |  |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report. |
| Limit: | No restriction limits |
| Test Results: | Pass |
| The detailed test data see: Appendix of HR/2021/1001405-01 | |



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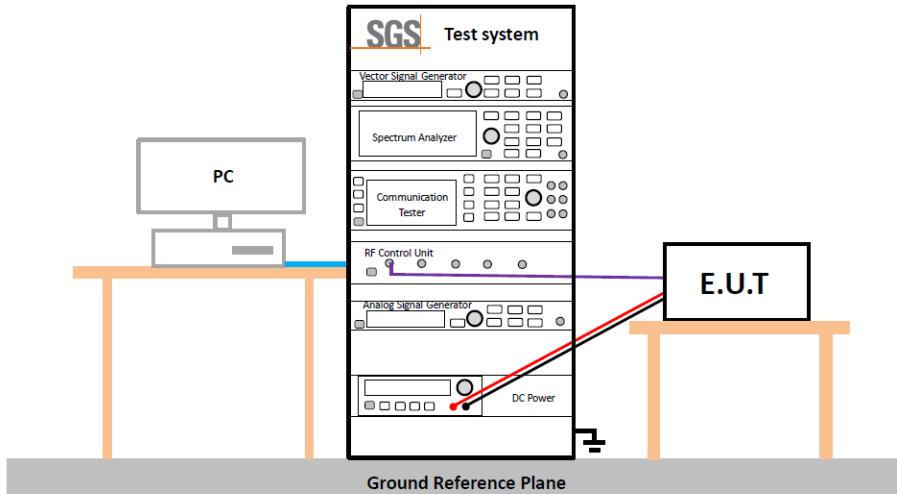
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4.8 Power Spectral Density

| | | |
|---|---|--|
| Test Requirement: | 47 CFR Part 15 Section 15.407(a) | |
| Test Method: | ANSI C63.10: 2013 KDB 789033 D02 v02r01, Section F. | |
| Test Setup: |  | |
| Instruments Used: | Refer to section 6 for details | |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates | |
| Final Test Mode: | Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report. | |
| Limit: | Frequency Band | Limit |
| | 5150-5250MHz | The power spectral density less than 11dBm/1MHz |
| | 5250-5350MHz | The power spectral density less than 11dBm/1MHz |
| | 5470-5725MHz | The power spectral density less than 11dBm/1MHz |
| | 5725-5850MHz | The power spectral density less than <30dBm/500KHz |
| Test Results: | Pass | |
| The detailed test data see: Appendix of HR/2021/1001405-01 | | |

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4.9 Radiated Spurious Emissions

| | |
|-------------------|---|
| Test Requirement: | 47 CFR Part 15 Section 15.205 and 15.209 |
| Test Method: | ANSI C63.10: 2013 |
| Test Site: | Measurement Distance: 3m or 10m (Semi-Anechoic Chamber) |
| Test Setup: | |

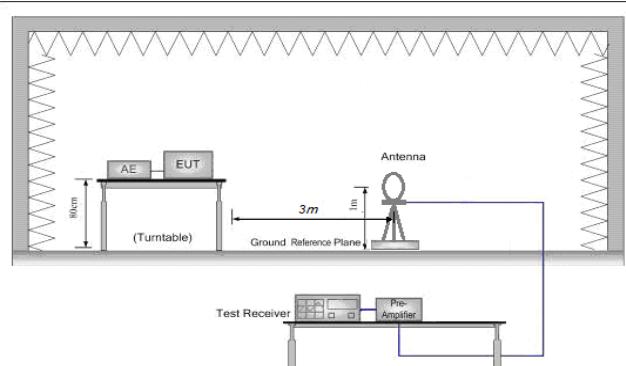


Figure 1. 9kHz to 30MHz

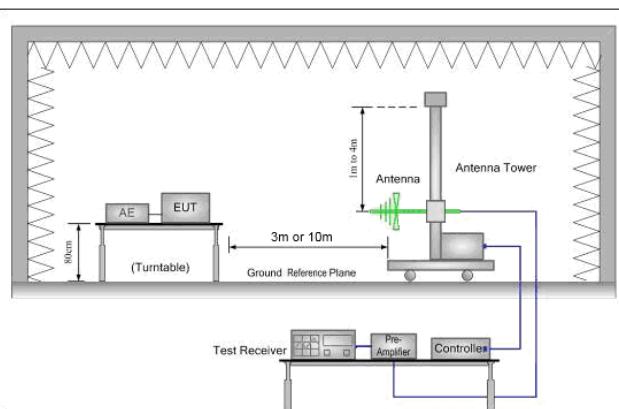


Figure 1. 30MHz to 1GHz

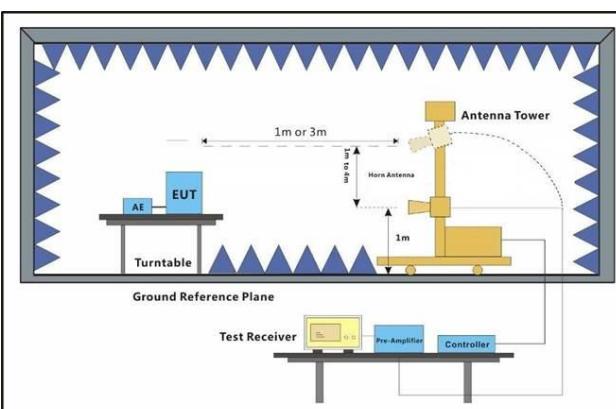


Figure 2. Above 1 GHz

| | |
|-----------------|--|
| Test Procedure: | <ol style="list-style-type: none"> For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 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. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the |
|-----------------|--|

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| | |
|---|---|
| | maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. 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. |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates. |
| Final Test Mode: | Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report. |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |
| The detailed test data see: Appendix | |

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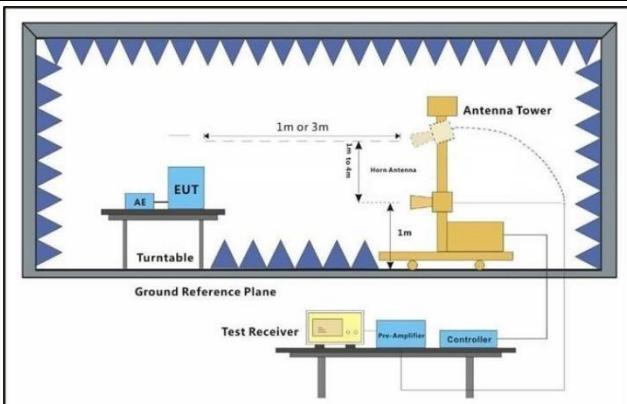
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4.10 Restricted bands around fundamental frequency

| | | | |
|-------------------|--|----------------|---------------|
| Test Requirement: | 47 CFR Part 15 Section 15.407(b) | | |
| Test Method: | ANSI C63.10: 2013 | | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | |
| Limit: | Frequency | Limit (dBuV/m) | Remark |
| | 30MHz-88MHz | 40.0 | Quasi-peak |
| | 88MHz-216MHz | 43.5 | Quasi-peak |
| | 216MHz-960MHz | 46.0 | Quasi-peak |
| | 960MHz-1GHz | 54.0 | Quasi-peak |
| | Above 1GHz | 54.0 | Average Value |
| | | 74.0 | Peak Value |
| Test Setup: |  | | |
| Test Procedure: | <ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel Test the EUT in the outermost channels. The radiation measurements are performed in X, Y, Z axis positioning for | | |

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| | |
|------------------------|--|
| | Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates. |
| Final Test Mode: | Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report. |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |

The detailed test data see: **Appendix**

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4.11 Frequencies Stability

The detailed test data see: **Appendix of HR/2021/1001405-01**

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4.12 Dynamic Frequency Selection

4.12.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

| Requirement | Operational Mode | | |
|--|------------------|--------------------------------|-----------------------------|
| | Master | Client Without Radar Detection | Client With Radar Detection |
| <i>Non-Occupancy Period</i> | Yes | Not required | Yes |
| <i>DFS Detection Threshold</i> | Yes | Not required | Yes |
| <i>Channel Availability Check Time</i> | Yes | Not required | Not required |
| <i>U-NII Detection Bandwidth</i> | Yes | Not required | Yes |

Table 2: Applicability of DFS requirements during normal operation

| Requirement | Operational Mode | |
|--|---|--|
| | Master Device or Client with Radar Detection | Client Without Radar Detection |
| <i>DFS Detection Threshold</i> | Yes | Not required |
| <i>Channel Closing Transmission Time</i> | Yes | Yes |
| <i>Channel Move Time</i> | Yes | Yes |
| <i>U-NII Detection Bandwidth</i> | Yes | Not required |
| Additional requirements for devices with multiple bandwidth modes | Master Device or Client with Radar Detection | Client Without Radar Detection |
| <i>U-NII Detection Bandwidth and Statistical Performance Check</i> | All BW modes must be tested | Not required |
| <i>Channel Move Time and Channel Closing Transmission Time</i> | Test using widest BW mode available | Test using the widest BW mode available for the link |
| <i>All other tests</i> | Any single BW mode | Not required |
| Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency. | | |

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4.12.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

| Maximum Transmit Power | Value (See Notes 1, 2, and 3) |
|--|----------------------------------|
| EIRP \geq 200 milliwatt | -64 dBm |
| EIRP $<$ 200 milliwatt and power spectral density $<$ 10 dBm/MHz | -62 dBm |
| EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement | -64 dBm |
| <p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p>Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> | |

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

| Parameter | Value |
|--|---|
| <i>Non-occupancy period</i> | Minimum 30 minutes |
| <i>Channel Availability Check Time</i> | 60 seconds |
| <i>Channel Move Time</i> | 10 seconds See Note 1. |
| <i>Channel Closing Transmission Time</i> | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2. |
| <i>U-NII Detection Bandwidth</i> | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3. |

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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

| No. | Item | Measurement Uncertainty |
|-----|---------------------|----------------------------|
| 1 | Conduction Emission | ± 2.90dB (150kHz to 30MHz) |
| 2 | Radiated Emission | ± 3.13dB (9k -30MHz) |
| | | ± 4.8dB (30M -1GHz) |
| | | ± 4.8dB (1GHz to 18GHz) |
| | | ±4.8dB (Above 18GHz) |

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6 Equipment List

| CE Test Equipment | | | | | |
|--------------------------------|---------------|------------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Shielding Room | Brilliant-emc | N/A | SUWI-04-03-01 | 2021/5/8 | 2024/5/7 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-01 | 2021/2/20 | 2022/2/19 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-02 | 2021/2/20 | 2022/2/19 |
| Measurement Software | Tonscend | JS32-CE V3.0.0.1 | SUWI-02-09-05 | NCR | NCR |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-06 | 2021/2/20 | 2022/2/19 |

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| 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 | 2021/5/8 | 2024/5/7 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-05 | 2021/2/20 | 2022/2/19 |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2021/5/28 | 2022/5/27 |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2021/2/20 | 2022/2/19 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | VULB 9163 | SUWI-01-11-01 | 2021/5/16 | 2022/5/15 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9120D | SUWI-01-11-02 | 2021/5/16 | 2022/5/15 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9170 | SUWI-01-11-03 | 2021/5/14 | 2022/5/13 |
| Active Loop Antenna | SCHWRZBECK MESS-ELEKTRONIK | FMZB 1519B | SUWI-01-21-01 | 2021/6/10 | 2022/6/9 |
| Amplifier | Tonscend | TAP9K3G40 | SUWI-01-14-01 | 2021/2/20 | 2022/2/19 |
| Amplifier | Tonscend | TAP01018050 | SUWI-01-14-02 | 2021/2/20 | 2022/2/19 |
| Amplifier | Tonscend | TAP18040048 | SUWI-01-14-03 | 2021/2/20 | 2022/2/19 |

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7 Photographs - EUT Constructional Details

Refer to Appendix A Setup Photos.



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Appendix



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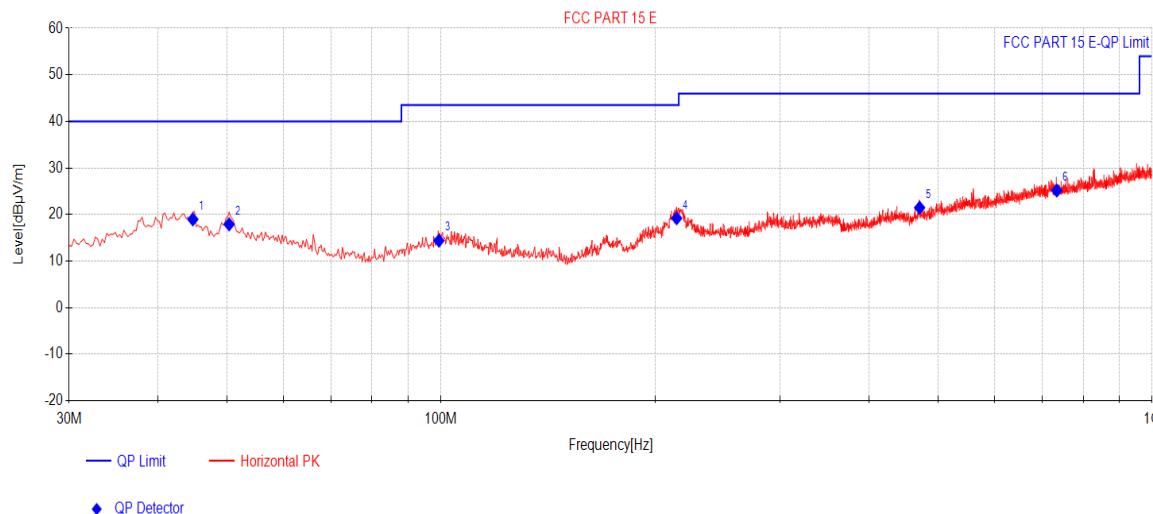
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Radiated Spurious Emissions

Radiated emission below 1GHz

802.LF11a_Channel 100



| Final Data List | | | | | | | | |
|-----------------|-----------------|-------------|-------------------|-------------------|----------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 44.7925 | -14.99 | 18.97 | 40.00 | 21.03 | 163 | 357 | Horizontal |
| 2 | 50.3700 | -14.28 | 17.90 | 40.00 | 22.10 | 185 | 57 | Horizontal |
| 3 | 99.3550 | -16.66 | 14.40 | 43.50 | 29.10 | 216 | 86 | Horizontal |
| 4 | 214.5425 | -15.32 | 19.20 | 43.50 | 24.30 | 319 | 233 | Horizontal |
| 5 | 471.1075 | -8.49 | 21.49 | 46.00 | 24.51 | 105 | 161 | Horizontal |
| 6 | 734.4625 | -3.70 | 25.17 | 46.00 | 20.83 | 218 | 295 | Horizontal |

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Preamplifier Factor

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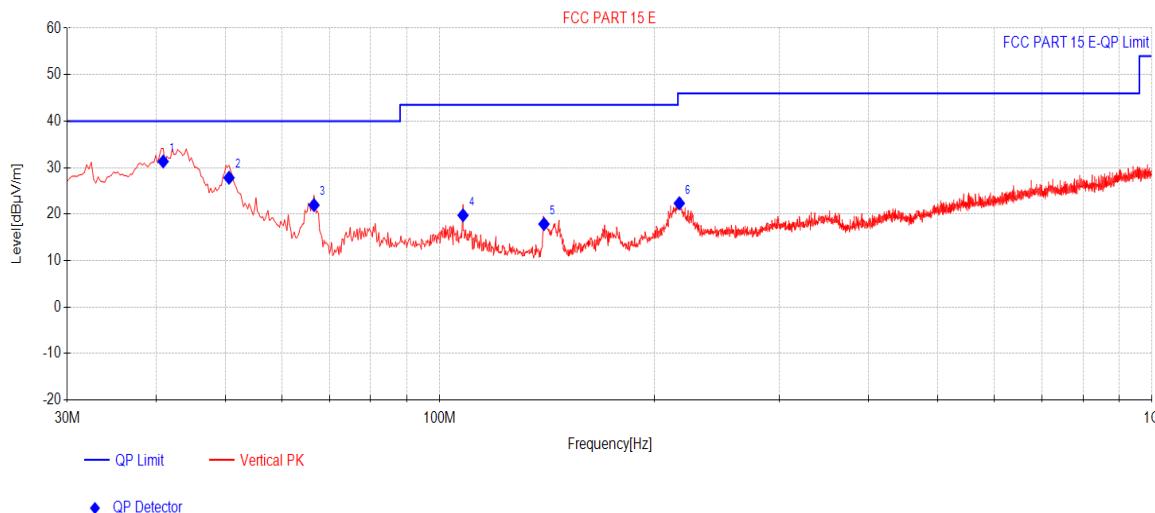
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802.LF11a_Channel 100



| Final Data List | | | | | | | | |
|-----------------|-----------------|-------------|-------------------------|-------------------------|----------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Factor [dB] | QP Value [dB μ V/m] | QP Limit [dB μ V/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 40.9125 | -15.79 | 31.33 | 40.00 | 8.67 | 163 | 127 | Vertical |
| 2 | 50.6125 | -14.33 | 27.82 | 40.00 | 12.18 | 251 | 132 | Vertical |
| 3 | 66.6175 | -18.09 | 21.94 | 40.00 | 18.06 | 301 | 314 | Vertical |
| 4 | 107.8425 | -16.69 | 19.76 | 43.50 | 23.74 | 185 | 281 | Vertical |
| 5 | 140.0950 | -19.65 | 17.87 | 43.50 | 25.63 | 102 | 141 | Vertical |
| 6 | 216.9675 | -15.15 | 22.33 | 46.00 | 23.67 | 112 | 3 | Vertical |

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Preamplifier Factor

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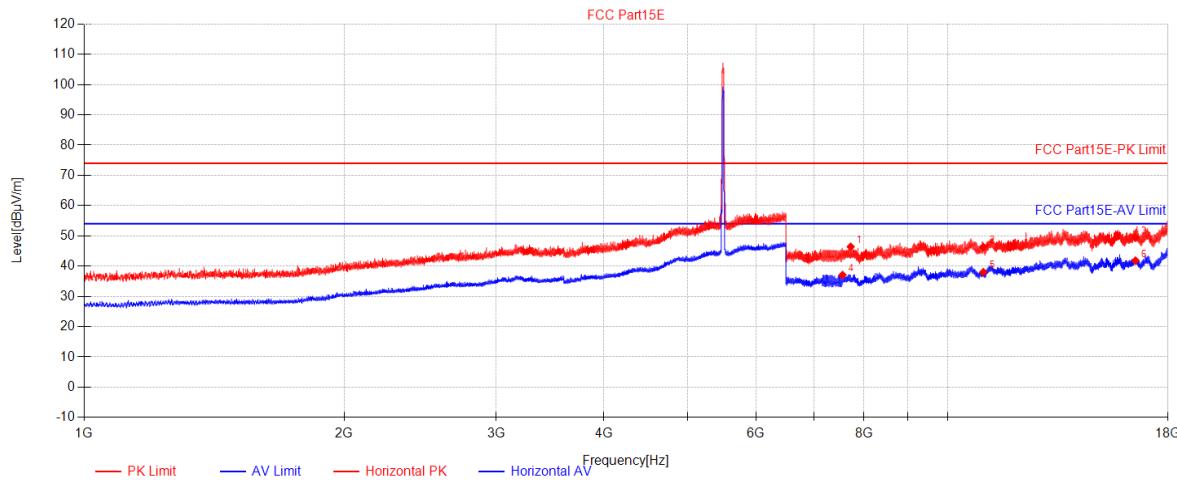
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Transmitter emission above 1GHz

802.11aEmission_Channel 100



| Data List | | | | | | | | | |
|-----------|-----------------|------------------|--------|----------------|----------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV/m] | Factor | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 7722.3542 | 52.67 | -6.24 | 46.43 | 74.00 | 27.57 | 223 | 186 | Horizontal |
| 2 | 11000 | 44.81 | 1.48 | 46.29 | 74.00 | 27.71 | 214 | 164 | Horizontal |
| 3 | 16500 | 45.74 | 3.64 | 49.38 | 74.00 | 24.62 | 201 | 250 | Horizontal |
| 4 | 7555.6042 | 43.61 | -6.52 | 37.09 | 54.00 | 16.91 | 150 | 122 | Horizontal |
| 5 | 11000 | 36.53 | 1.48 | 38.01 | 54.00 | 15.99 | 150 | 144 | Horizontal |
| 6 | 16500 | 38.18 | 3.64 | 41.82 | 54.00 | 12.18 | 250 | 79 | Horizontal |

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Preamplifier Factor

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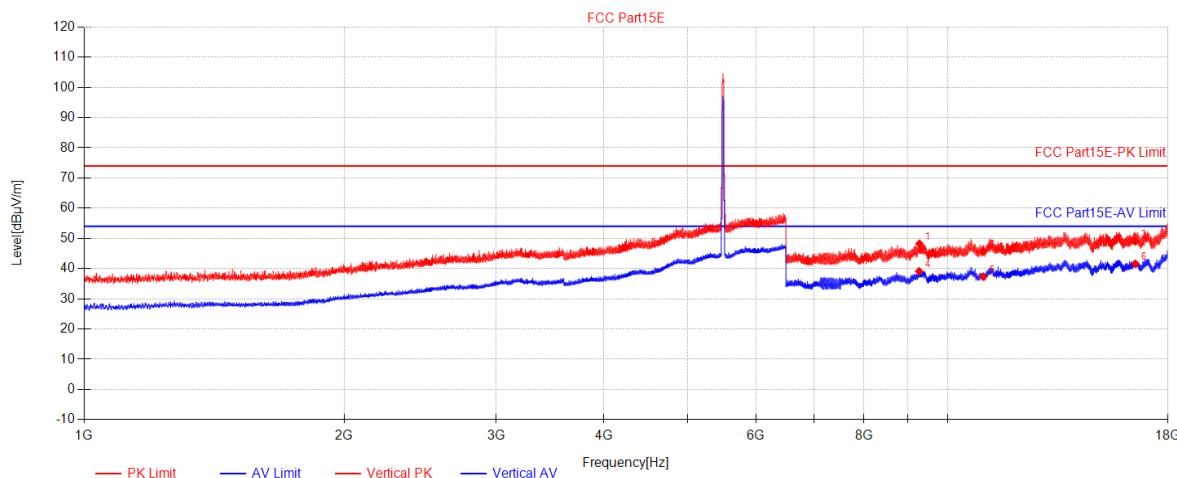

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802.11aEmission_Channel 100



| Data List | | | | | | | | | |
|-----------|-----------------|------------------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 9276.2917 | 49.89 | -1.64 | 48.25 | 74.00 | 25.75 | 140 | 76 | Vertical |
| 2 | 11000 | 44.27 | 1.48 | 45.75 | 74.00 | 28.25 | 265 | 164 | Vertical |
| 3 | 16500 | 45.41 | 3.64 | 49.05 | 74.00 | 24.95 | 247 | 16 | Vertical |
| 4 | 9268.1458 | 40.76 | -1.64 | 39.12 | 54.00 | 14.88 | 150 | 315 | Vertical |
| 5 | 11000 | 35.86 | 1.48 | 37.34 | 54.00 | 16.66 | 105 | 54 | Vertical |
| 6 | 16500 | 37.98 | 3.64 | 41.62 | 54.00 | 12.38 | 271 | 272 | Vertical |

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Preamplifier Factor

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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 Wireless Laboratory Inspection & Testing Services

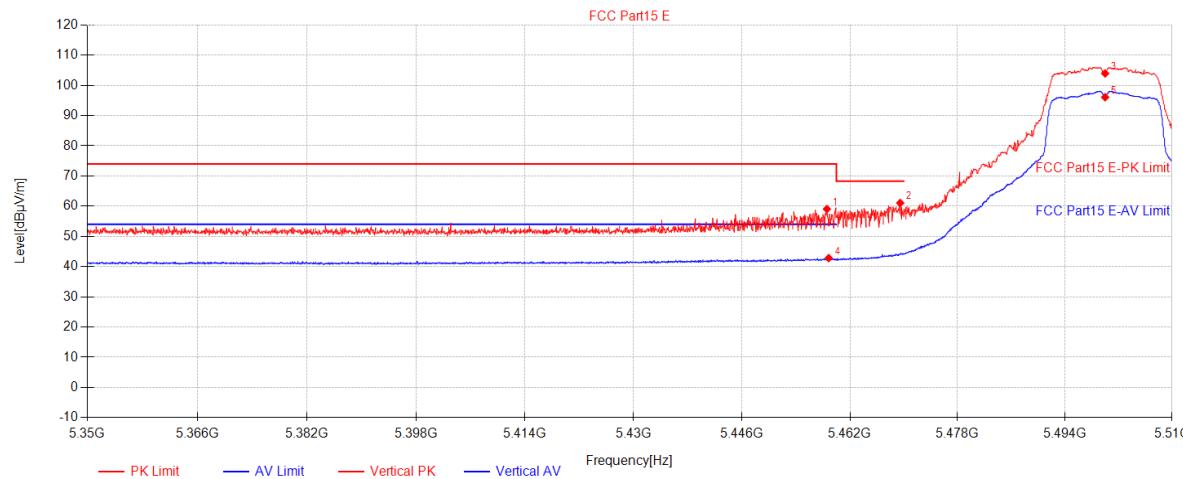
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Bandedge

802.11a Band_EDGE_Channel 100



| Data List | | | | | | | | | |
|-----------|-----------------|------------------------|-------------|----------------------|----------------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dB μ V/m] | Factor [dB] | Level [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5458.5867 | 46.41 | 12.67 | 59.08 | 74.00 | 14.92 | 290 | 90 | Vertical |
| 2 | 5469.4667 | 48.37 | 12.70 | 61.07 | 68.30 | 7.23 | 290 | 90 | Vertical |
| 3 | 5500 | 91.19 | 12.77 | 103.96 | 0.00 | -103.96 | 290 | 90 | Vertical |
| 4 | 5458.8533 | 30.16 | 12.67 | 42.83 | 54.00 | 11.17 | 290 | 90 | Vertical |
| 5 | 5500 | 83.32 | 12.77 | 96.09 | 0.00 | -96.09 | 290 | 90 | Vertical |

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss

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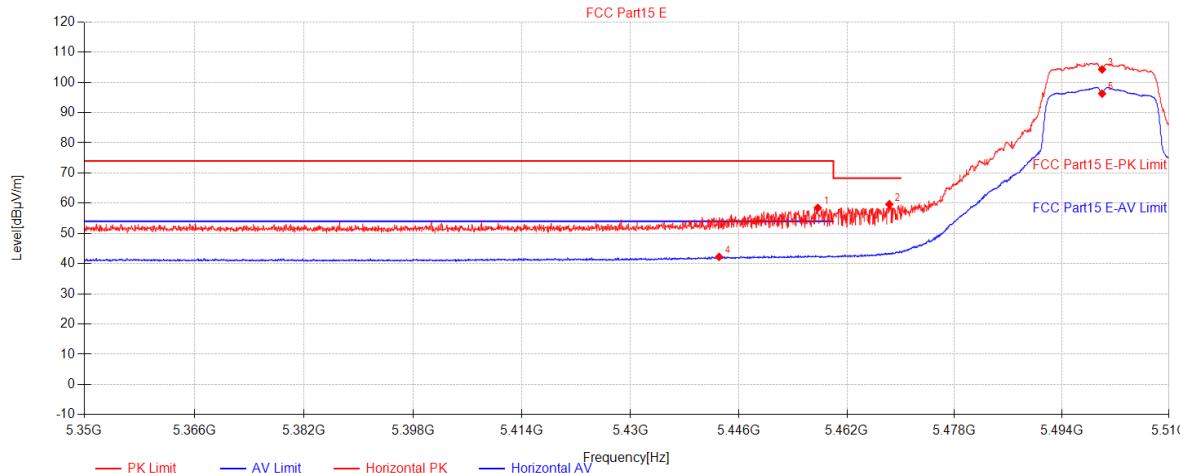
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802.11a Band_EDGE_Channel 100



| Data List | | | | | | | | | |
|-----------|-----------------|------------------|--------|----------------|----------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV/m] | Factor | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5457.68 | 45.79 | 12.67 | 58.46 | 74.00 | 15.54 | 105 | 65 | Horizontal |
| 2 | 5468.2933 | 46.98 | 12.69 | 59.67 | 68.30 | 8.63 | 105 | 65 | Horizontal |
| 3 | 5500 | 91.54 | 12.77 | 104.31 | 0.00 | -104.31 | 105 | 65 | Horizontal |
| 4 | 5443.0667 | 29.61 | 12.63 | 42.24 | 54.00 | 11.76 | 105 | 65 | Horizontal |
| 5 | 5500 | 83.51 | 12.77 | 96.28 | 0.00 | -96.28 | 105 | 65 | Horizontal |

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss

The End

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