

Equipment : TITAN-High Power AC1900 Wi-Fi Router

Brand Name : Amped Wireless

Model No. : RTA1900

FCC ID : ZTT-RTA1900

Standard : 47 CFR FCC Part 15.407

Operating Band : 5150 MHz - 5250 MHz

5725 MHz - 5850 MHz

FCC Classification: UNII

Applicant : Amped Wireless

13089 Peyton Dr. #C307 Chino Hills CA 91709

Manufacturer : EDIMAX TECHNOLOGY CO., LTD.

No.3, Wu-Chuan 3rd Road, Wu-Ku Industrial Park,

New Taipei City, Taiwan

Function : ☐ Outdoor AP; ⊠ Indoor AP;

Fixed P2P AP Portable Client

The product sample received on May 26, 2015 and completely tested on Jul. 17, 2015. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Vic Hsiao / Supervisor

Testing Laboratory
1190

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APPENDIX A. TEST PHOTOS

APPENDIX B. PHOTOGRAPHS OF EUT

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Summary of Test Result

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| Conformance Test Specifications | | | | | |
|---------------------------------|---------------------|--|----------|--|--|
| Report Clause | Ref. Std. Clause | Description | Result | | |
| 1.1.2 | 15.203 | Antenna Requirement | Complied | | |
| 3.1 | 15.207 | AC Power-line Conducted Emissions | Complied | | |
| 3.2 | 15.407(a) | Emission Bandwidth | Complied | | |
| 3.3 | 15.407(a) | RF Output Power (Maximum Conducted Output Power) | Complied | | |
| 3.4 | 15.407(a) | Peak Power Spectral Density | Complied | | |
| 3.5 | 15.407(b) | Transmitter Bandedge Emissions | Complied | | |
| 3.6 | 15.407(b) | Transmitter Unwanted Emissions | Complied | | |
| 3.7 | 15.407(g) | Frequency Stability | Complied | | |

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Revision History

Report No.: FR552736AN

| Report No. | Version | Description | Issued Date |
|------------|---------|-------------------------|---------------|
| FR552736AN | Rev. 01 | Initial issue of report | Aug. 17, 2015 |
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1 General Description

1.1 Information

1.1.1 RF General Information

| | RF General Information (5150-5250MHz band) | | | | | | | |
|--------------------------|--|-----------------|-------------------|---------------------------------------|--------------------------|--|--|--|
| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Freq. (MHz) | Channel Number | Transmit Chains (N _{TX}) | RF Output Power (dBm) | | | |
| 5150-5250 | а | 5180-5240 | 36-48 [4] | 1 | 27.53 | | | |
| 5150-5250 | n (HT20) | 5180-5240 | 36-48 [4] | 3 | 24.42 | | | |
| 5150-5250 | n (HT40) | 5190-5230 | 38-46 [2] | 3 | 27.35 | | | |
| 5150-5250 | ac (VHT20) | 5180-5240 | 36-48 [4] | 3 | 24.46 | | | |
| 5150-5250 | ac (VHT40) | 5190-5230 | 38-46 [2] | 3 | 27.39 | | | |
| 5150-5250 | ac (VHT80) | 5210 | 48 [1] | 3 | 24.71 | | | |

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Note 1: RF output power specifies that Maximum Conducted Output Power.

Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

Note 3: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

| | RF General Information (5725-5850MHz band) | | | | | | |
|--------------------------|--|-----------------|-------------------|---------------------------------------|--------------------------|--|--|
| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Freq. (MHz) | Channel Number | Transmit Chains (N _{TX}) | RF Output Power (dBm) | | |
| 5725-5850 | а | 5745-5825 | 149-165 [5] | 1 | 26.53 | | |
| 5725-5850 | n (HT20) | 5745-5825 | 149-165 [5] | 3 | 28.91 | | |
| 5725-5850 | n (HT40) | 5755-5795 | 151-159 [2] | 3 | 29.73 | | |
| 5725-5850 | ac (VHT20) | 5745-5825 | 149-165 [5] | 3 | 29.80 | | |
| 5725-5850 | ac (VHT40) | 5755-5795 | 151-159 [2] | 3 | 29.72 | | |
| 5725-5850 | ac (VHT80) | 5775 | 155 [1] | 3 | 27.76 | | |

Note 1: RF output power specifies that Maximum Conducted Output Power.

Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

Note 3: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

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1.1.2 Antenna Information

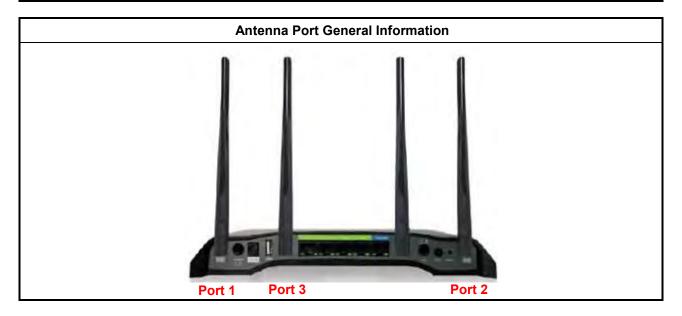
| | Antenna Category | | | | | |
|-------------|---|--|--|--|--|--|
| \boxtimes | External antenna (dedicated antennas) | | | | | |
| | ☐ Single power level with corresponding antenna(s). | | | | | |
| | | | | | | |

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| | Antenna General Information | | | | | | | |
|---|-----------------------------|----------|--------|----------------|-----------------------|--|--|--|
| Group Port. No. Ant. Cat. Ant. Type Ant. Model Name | | | | | Gain _(dBi) | | | |
| 1 | 1/2/3 | External | Dipole | AN2450-5010BRS | 5.01 | | | |
| 2 | 1/2/3 | External | Dipole | ET2430DBKRPSMA | 3.7 | | | |

Remark:

- In modulation mode 11a, this EUT supports 1TX and port1 for emission.
 In modulation mode 11n/ac, this EUT supports 3TX.
- 3. EUT may match the two group antennas use. Performed the worst configuration for higher gain was test in final test report.



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1.1.3 Type of EUT

| | Identify EUT | | | | | |
|-------------|-------------------------|-------------------------------|-----------------------------|---------------------------|--|--|
| EU | Γ Serial Number | N/A | | | | |
| Pre | sentation of Equipment | ☐ Production ; ☐ Pr | e-Production; Prototyp | е | | |
| | Type of EUT | | | | | |
| \boxtimes | ⊠ Stand-alone | | | | | |
| | Combined (EUT where | the radio part is fully integ | rated within another device |) | | |
| | Combined Equipment | - Brand Name / Model No.: | | | | |
| | Plug-in radio (EUT inte | nded for a variety of host s | systems) | | | |
| | Host System - Brand N | lame / Model No.: | | | | |
| | Other: | | | | | |
| 1.1. | 4 Test Signal Du | ty Cycle | | | | |
| | | Operated Mode for | r Worst Duty Cycle | | | |
| | Operated normally mo | de for worst duty cycle | | | | |
| \boxtimes | Operated test mode for | r worst duty cycle | | | | |
| | Test Signal [| Outy Cycle (x) | | uty Factor 10 log 1/x) | | |
| \boxtimes | 100% - IEEE 802.11a | | 0 | | | |
| \boxtimes | 100% - IEEE 802.11n | (HT20) | 0 | | | |
| \boxtimes | 100% - IEEE 802.11n | (HT40) | 0 | | | |
| \boxtimes | 100% - IEEE 802.11ac | (VHT20) | | 0 | | |
| \boxtimes | 100% - IEEE 802.11ac | (VHT40) | | 0 | | |
| \boxtimes | 100% - IEEE 802.11ac | (VHT80) | | 0 | | |
| 1.1. | 5 EUT Operation | al Condition | | | | |
| Sup | oply Voltage | | ☐ DC | | | |
| Тур | e of DC Source | ☐ From Host System | External AC adapter | ☐ Li-ion Battery | | |

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1.2 Accessories and Support Equipment

| | Accessories | | | | | |
|------------|--------------|-----------------------|------------|------------------|--|--|
| | Brand Name | DVE | Model Name | DSA-30PFB-12 FUS | | |
| AC Adapter | Power Rating | I/P:100-240V ~ 50/60H | Model Name | | | |

Reminder: Regarding to more detail and other information, please refer to user manual.

| | Support Equipment - RF Conducted | | | | | | |
|-----|--|------|-----------|-----|--|--|--|
| No. | No. Equipment Brand Name Model Name FCC ID | | | | | | |
| 1 | Notebook | DELL | E5540 | DoC | | | |
| 2 | AC Adapter for Notebook | DELL | HA65NM130 | DoC | | | |

| | Support Equipment - AC Conduction and Radiated Emission | | | | | | |
|-----|---|------|------------|-----|--|--|--|
| No. | No. Equipment Brand Name Model Name FCC ID | | | | | | |
| 1 | Notebook | DELL | E5520 | DoC | | | |
| 2 | AC Adapter for Notebook | DELL | LA65NS2-01 | DoC | | | |

1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- FCC KDB 789033 D02 v01
- FCC KDB 644545 D03 v01
- ◆ FCC-14-30A1-UNII
- FCC KDB 662911 D01 v02r01

1.4 Testing Location Information

| | Testing Location | | | | | | |
|-------------------|---|--|---------------|---------------|------------------|--|--|
| \boxtimes | HWA YA | HWA YA ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. | | | | | |
| | TEL: 886-3-327-3456 FAX: 886-3-327-0973 | | | | | | |
| Test Condition | | | Test Site No. | Test Engineer | Test Environment | | |
| AC Conduction | | | CO04-HY | Zeus | 20°C / 59% | | |
| RF Conducted | | TH06-HY | Howard | 21.6°C / 62% | | | |
| Radiated Emission | | 03CH02-HY | Joe | 24.5°C / 52% | | | |

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1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

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| ! | Measurement Uncertainty | | | |
|------------------------------------|-------------------------|-------------|--|--|
| Test Item | | Uncertainty | | |
| AC power-line conducted emissions | | ±2.3 dB | | |
| Emission bandwidth, 26dB bandwidth | | ±0.5% | | |
| RF output power, conducted | | ±0.1 dB | | |
| Power density, conducted | | ±0.5 dB | | |
| Unwanted emissions, conducted | 9 – 150 kHz | ±0.4 dB | | |
| | 0.15 – 30 MHz | ±0.4 dB | | |
| | 30 – 1000 MHz | ±0.6 dB | | |
| | 1 – 18 GHz | ±0.5 dB | | |
| | 18 – 40 GHz | ±0.5 dB | | |
| | 40 – 200 GHz | N/A | | |
| All emissions, radiated | 9 – 150 kHz | ±2.5 dB | | |
| | 0.15 – 30 MHz | ±2.3 dB | | |
| | 30 – 1000 MHz | ±2.6 dB | | |
| | 1 – 18 GHz | ±3.6 dB | | |
| | 18 – 40 GHz | ±3.8 dB | | |
| | 40 – 200 GHz | N/A | | |
| Temperature | | ±0.8 ℃ | | |
| Humidity | | ±5 % | | |
| DC and low frequency voltages | | ±0.9% | | |
| Time | | ±1.4 % | | |
| Duty Cycle | | ±0.5 % | | |

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2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

| | Worst Modulation Used for Conformance Testing | | | | | | |
|-----------------|---|-----------------|-----------------------|--|--|--|--|
| Modulation Mode | Transmit Chains (N _{TX}) | Data Rate / MCS | Worst Data Rate / MCS | | | | |
| 11a | 1 | 6-54Mbps | 6 Mbps | | | | |
| HT20 | 3 | MCS 0-23 | MCS 0 | | | | |
| HT40 | 3 | MCS 0-23 | MCS 0 | | | | |
| VHT20 | 3 | MCS 0-8 | MCS 0 | | | | |
| VHT40 | 3 | MCS 0-9 | MCS 0 | | | | |
| VHT80 | 3 | MCS 0-9 | MCS 0 | | | | |

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2.2 The Worst Case Power Setting Parameter

| The Worst Case Power Setting Parameter (5150-5250MHz band) | | | | | | | | |
|--|-----------------------------------|----------------------|------------|----------|----------|----------|------------|--|
| Test Software Version | Test Software Version RTL819x_3.3 | | | | | | | |
| | | Test Frequency (MHz) | | | | | | |
| Modulation Mode | N _{TX} | I | NCB: 20MHz | | | 40MHz | NCB: 80MHz | |
| | | 5180 | 5200 | 5240 | 5190 | 5230 | 5210 | |
| 11a | 1 | 39 | 49 | 46 | - | - | - | |
| HT20 | 3 | 30/35/29 | 30/35/29 | 28/36/28 | - | - | - | |
| HT40 | 3 | - | - | - | 36/45/38 | 36/44/40 | - | |
| VHT20 | 3 | 31/36/29 | 31/36/29 | 31/36/29 | - | - | - | |
| VHT40 | 3 | - | - | - | 34/43/37 | 38/46/40 | - | |
| VHT80 | 3 | - | - | - | - | - | 35/44/38 | |

| The Worst Case Power Setting Parameter (5725-5850MHz band) | | | | | | | | | |
|--|-----------------------------|----------------------|----------|----------|------------|----------|------------|--|--|
| Test Software Version | oftware Version RTL819x_3.3 | | | | | | | | |
| | | Test Frequency (MHz) | | | | | | | |
| Modulation Mode | N _{TX} | NCB: 20MHz | | | NCB: 40MHz | | NCB: 80MHz | | |
| | | 5745 | 5785 | 5825 | 5755 | 5795 | 5775 | | |
| 11a | 1 | 43 | 50 | 52 | - | - | - | | |
| HT20 | 3 | 44/32/47 | 49/37/52 | 48/36/51 | - | - | - | | |
| HT40 | 3 | - | - | - | 38/31/40 | 50/38/53 | - | | |
| VHT20 | 3 | 50/43/47 | 50/38/53 | 49/37/52 | - | - | - | | |
| VHT40 | 3 | - | - | - | 46/36/52 | 52/40/55 | - | | |
| VHT80 | 3 | - | - | - | - | - | 47/33/49 | | |

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2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | | | | | |
|---|--|--|--|--|--|
| Tests Item AC power-line conducted emissions | | | | | |
| Condition | AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz | | | | |
| Operating Mode | Operating Mode Description | | | | |
| 1 | AC Power & Radio link (WLAN) | | | | |

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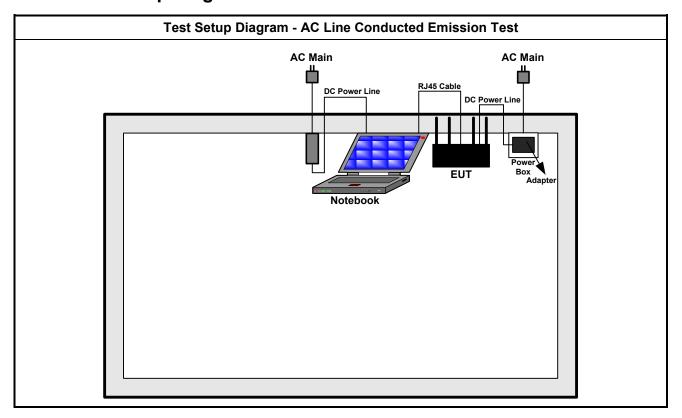
| The Worst Case Mode for Following Conformance Tests | | | | | |
|---|---|--|--|--|--|
| Tests Item | RF Output Power, Peak Power Spectral Density, Emission Bandwidth, Peak Excursion, Transmitter Conducted Unwanted Emissions Transmitter Conducted Bandedge Emissions | | | | |
| Test Condition | Conducted measurement at transmit chains | | | | |
| Modulation Mode | 11a, HT20, HT40, VHT20, VHT40, VHT80 | | | | |

| Th | e Worst Case Mode for Following Conformance Tests | | | | | |
|-----------------------------|--|--|--|--|--|--|
| Tests Item | ansmitter Radiated Unwanted Emissions ansmitter Radiated Bandedge Emissions | | | | | |
| Test Condition | Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. | | | | | |
| | | | | | | |
| | ☐ EUT will be placed in mobile position and operating multiple positions. | | | | | |
| User Position | EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed three orthogonal planes. | | | | | |
| Operating Mode | Operating Mode Description | | | | | |
| 1 | AC Power & Radio link (WLAN) | | | | | |
| Modulation Mode | 11a, HT20, HT40, VHT20, VHT40, VHT80 | | | | | |
| | X Plane | | | | | |
| Orthogonal Planes of EUT | | | | | | |

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2.4 Test Setup Diagram



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Test Setup Diagram - Radiated Below 1GHz Test

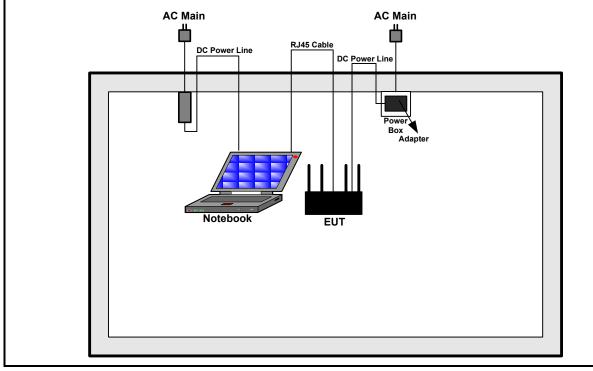
AC Main

AC Main

AC Main

BC Power Line

BC Powe



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3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit | | | | |
|---|------------|-----------|--|--|
| Frequency Emission (MHz) | Quasi-Peak | Average | | |
| 0.15-0.5 | 66 - 56 * | 56 - 46 * | | |
| 0.5-5 | 56 | 46 | | |
| 5-30 | 60 | 50 | | |

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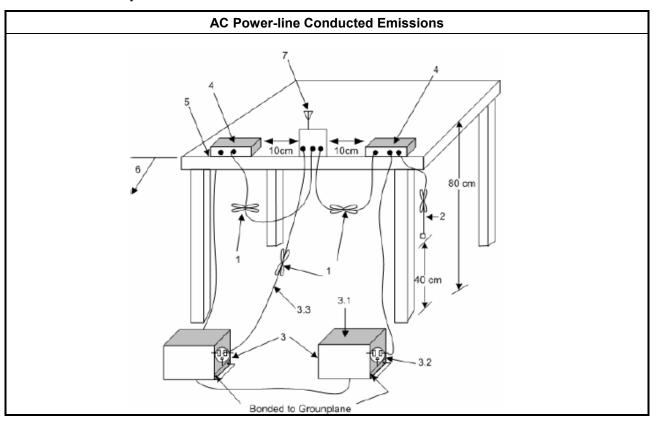
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

| | Test Method |
|------------|---|
| □ Refer as | ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

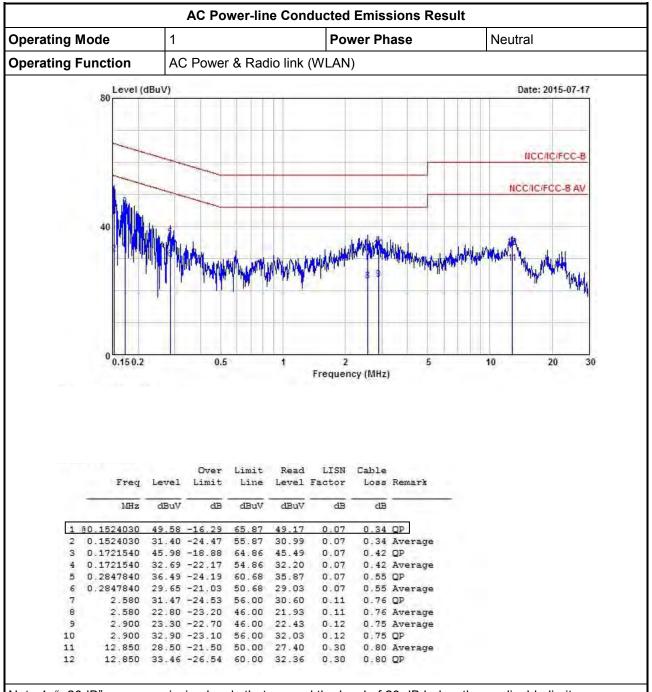
3.1.4 Test Setup



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3.1.5 Test Result of AC Power-line Conducted Emissions

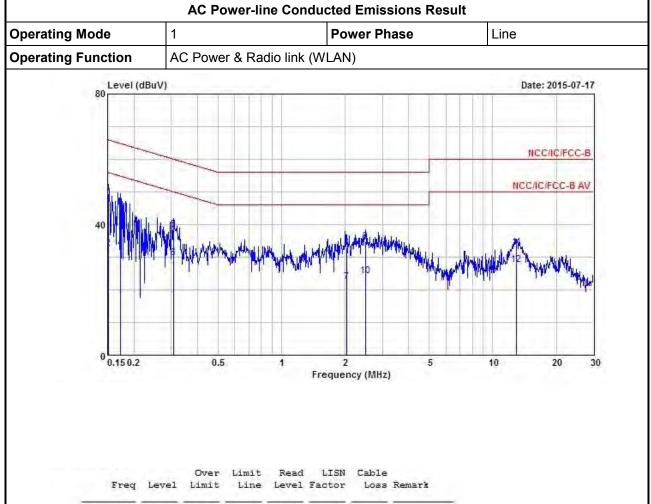


Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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| | Freq | Level | Limit | Line | Level | Factor | Loss | Remark | |
|----|------------|-------|--------|-------|-------|--------|------|---------|--|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | | |
| 1 | 80.1515980 | 49.41 | -16.50 | 65.91 | 49.02 | 0.05 | 0.34 | QP | |
| 2 | 0.1515980 | 32.75 | -23.16 | 55.91 | 32.36 | 0.05 | 0.34 | Average | |
| 3 | 0.1730690 | 45.30 | -19.51 | 64.81 | 44.83 | 0.05 | 0.42 | QP | |
| 4 | 0.1730690 | 32.72 | -22.09 | 54.81 | 32.25 | 0.05 | 0.42 | Average | |
| 5 | 0.3083410 | 38.40 | -21.62 | 60.02 | 37.77 | 0.07 | 0.56 | QP | |
| 6 | 0.3083410 | 29.63 | -20.39 | 50.02 | 29.00 | 0.07 | 0.56 | Average | |
| 7 | 2.030 | 22.43 | -23.57 | 46.00 | 21.53 | 0.10 | 0.80 | Average | |
| 8 | 2.030 | 33.02 | -22.98 | 56.00 | 32.12 | 0.10 | 0.80 | QP . | |
| 9 | 2.490 | 34.75 | -21.25 | 56.00 | 33.87 | 0.11 | 0.77 | QP | |
| 10 | 2.490 | 24.27 | -21.73 | 46.00 | 23.39 | 0.11 | 0.77 | Average | |
| 11 | 12.990 | 32.81 | -27.19 | 60.00 | 31.73 | 0.28 | 0.80 | QP | |
| 12 | 12.990 | 27.57 | -22.43 | 50.00 | 26.49 | 0.28 | 0.80 | Average | |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

| | Emission Bandwidth Limit | | | | | |
|-------------|---|--|--|--|--|--|
| UN | UNII Devices | | | | | |
| \boxtimes | For the 5.15-5.25 GHz band, N/A | | | | | |
| | For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. | | | | | |
| | For the $5.47-5.725$ GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. | | | | | |
| \boxtimes | For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz. | | | | | |

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3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

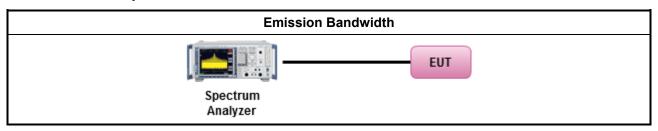
| | Test Method | | | | | | | | |
|-------------|-------------|-------|---|--|--|--|--|--|--|
| \boxtimes | For | the e | mission bandwidth shall be measured using one of the options below: | | | | | | |
| | \boxtimes | Ref | er as FCC KDB 789033, clause C for EBW and clause D for OBW measurement. | | | | | | |
| | | Ref | er as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. | | | | | | |
| | | Ref | er as IC RSS-Gen, clause 6.6 for bandwidth testing. | | | | | | |
| \boxtimes | For | cond | ucted measurement. | | | | | | |
| | \boxtimes | The | EUT supports single transmit chain and measurements performed on this transmit chain 1. | | | | | | |
| | | The | EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case. | | | | | | |
| | \boxtimes | The | EUT supports multiple transmit chains using options given below: | | | | | | |
| | | | Option 1: Multiple transmit chains measurements need to be performed on one of the active transmit chains (antenna outputs). All measurement had be performed on transmit chains 1. | | | | | | |
| | | | Option 2: Multiple transmit chains measurements need to be performed on each transmit chains individually (antenna outputs). All measurement had be performed on all transmit chains. | | | | | | |

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3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

| | | UN | NII Emission Ba | ndwidth Resul | t (5150-5250MF | lz band) | | |
|-----------------|-----------------|-------|-----------------|---------------|----------------|---------------|---------------|---------------|
| Condit | ion | | | | Emission Bar | ndwidth (MHz) | | |
| Modulation Mode | N _{TX} | Freq. | ! | 99% Bandwidtl | 1 | 2 | 26dB Bandwidt | h |
| Wodulation Wode | INTX | (MHz) | Chain- Port 1 | Chain- Port 2 | Chain- Port 3 | Chain- Port 1 | Chain- Port 2 | Chain- Port 3 |
| 11a | 1 | 5180 | 17.51 | - | - | 31.17 | - | - |
| 11a | 1 | 5200 | 31.78 | - | - | 43.55 | - | - |
| 11a | 1 | 5240 | 30.73 | - | - | 43.35 | - | - |
| HT20 | 3 | 5180 | 17.69 | 17.66 | 17.79 | 20.92 | 21.07 | 20.75 |
| HT20 | 3 | 5200 | 17.79 | 17.79 | 17.71 | 20.47 | 20.65 | 20.67 |
| HT20 | 3 | 5240 | 18.01 | 17.86 | 17.79 | 21.00 | 20.77 | 20.90 |
| HT40 | 3 | 5190 | 36.54 | 36.54 | 36.54 | 44.12 | 43.24 | 43.20 |
| HT40 | 3 | 5230 | 36.62 | 36.62 | 36.62 | 44.04 | 43.64 | 43.32 |
| VHT20 | 3 | 5180 | 17.64 | 17.79 | 17.84 | 20.52 | 20.85 | 20.87 |
| VHT20 | 3 | 5200 | 17.81 | 17.84 | 17.89 | 20.80 | 20.80 | 21.00 |
| VHT20 | 3 | 5240 | 17.86 | 17.74 | 17.86 | 20.77 | 20.80 | 21.00 |
| VHT40 | 3 | 5190 | 36.46 | 36.54 | 36.70 | 43.28 | 43.24 | 43.68 |
| VHT40 | 3 | 5230 | 36.70 | 36.54 | 36.62 | 45.88 | 44.36 | 45.76 |
| VHT80 | 3 | 5210 | 75.24 | 75.24 | 75.24 | 80.88 | 81.44 | 81.92 |
| Resu | lt | | | | Com | plied | | |

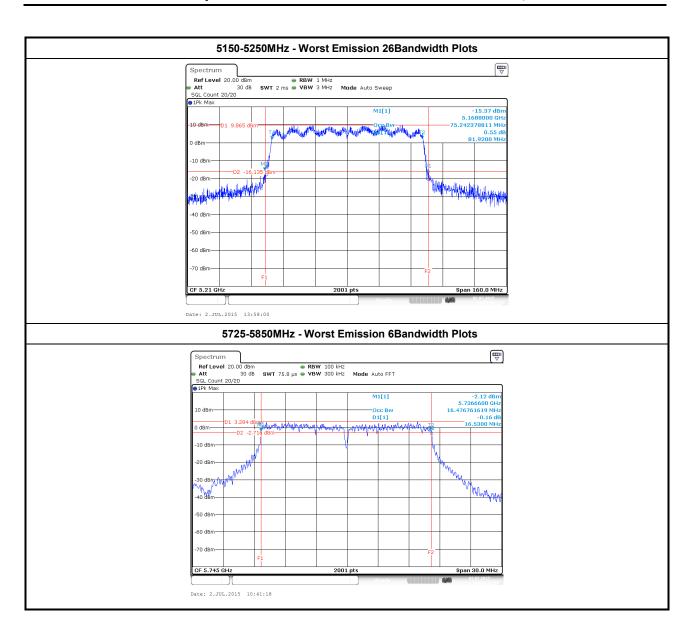
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| Condi | tion | | | | Emission Bar | ndwidth (MHz) | | | |
|-----------------|-----------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| | | Freq. | | 99% Bandwidtl | า | | 6dB Bandwidth | 1 | |
| Modulation Mode | N _{TX} | (MHz) | Chain- Port 1 | Chain- Port 2 | Chain- Port 3 | Chain- Port 1 | Chain- Port 2 | Chain- Port 3 | |
| 11a | 1 | 5745 | 16.47 | - | - | 16.53 | - | - | |
| 11a | 1 | 5785 | 17.28 | - | - | 16.54 | - | - | |
| 11a | 1 | 5825 | 20.01 | - | - | 16.53 | - | - | |
| HT20 | 3 | 5745 | 17.58 | 17.64 | 17.66 | 17.68 | 17.71 | 17.64 | |
| HT20 | 3 | 5785 | 17.60 | 17.58 | 17.73 | 17.58 | 17.70 | 17.68 | |
| HT20 | 3 | 5825 | 17.64 | 17.64 | 17.70 | 17.70 | 17.73 | 17.80 | |
| HT40 | 3 | 5755 | 36.14 | 36.14 | 36.14 | 36.44 | 36.44 | 36.44 | |
| HT40 | 3 | 5795 | 36.14 | 36.10 | 36.22 | 36.36 | 36.40 | 36.44 | |
| VHT20 | 3 | 5745 | 17.61 | 17.61 | 17.61 | 17.73 | 17.70 | 17.62 | |
| VHT20 | 3 | 5785 | 17.67 | 17.69 | 17.73 | 17.58 | 17.73 | 17.59 | |
| VHT20 | 3 | 5825 | 17.64 | 17.61 | 17.69 | 17.59 | 17.64 | 17.61 | |
| VHT40 | 3 | 5755 | 36.14 | 36.10 | 36.10 | 36.44 | 36.44 | 36.36 | |
| VHT40 | 3 | 5795 | 36.26 | 36.06 | 36.30 | 36.36 | 36.40 | 36.44 | |
| VHT80 | 3 | 5775 | 74.76 | 74.84 | 74.92 | 74.72 | 74.80 | 75.28 | |
| Lim | it | | | - ≥ 500 | | | | • | |
| Resu | ılt | | | Complied | | | | | |

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3.3 RF Output Power

3.3.1 RF Output Power Limit

| | | Maximum Conducted Output Power Limit |
|-------------|---------|---|
| UNI | II Devi | ces |
| \boxtimes | For th | ne 5.15-5.25 GHz band: |
| | : | Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees \leq 125mW [21dBm] |
| | | Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6) |
| | | Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. |
| | | Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$. |
| | 250 n | ne 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of nW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then = 24 – (G_{TX} – 6). |
| | of 250 | ne 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser 0 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then = 24 – (G_{TX} – 6). |
| \boxtimes | For th | ne 5.725-5.85 GHz band: |
| | | Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. |
| | | Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. |
| | | ximum conducted output power in dBm, maximum transmitting antenna directional gain in dBi. |

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3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

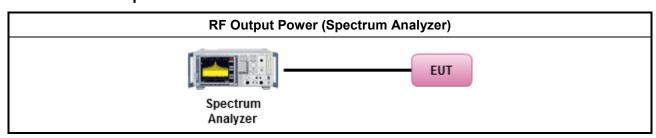
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3.3.3 Test Procedures

| | | Test Method |
|-------------|-------------|---|
| \boxtimes | Max | imum Conducted Output Power |
| | [dut | y cycle ≥ 98% or external video / power trigger] |
| | \boxtimes | Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging). |
| | | Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed) |
| | duty | cycle < 98% and average over on/off periods with duty factor |
| | | Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). |
| | | Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) |
| | Wid | eband RF power meter and average over on/off periods with duty factor |
| | | Refer as FCC KDB 789033, clause E Method PM (using an RF average power meter). |
| \boxtimes | For | conducted measurement. |
| | \boxtimes | The EUT supports single transmit chain and measurements performed on this transmit chain 1. |
| | | The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case. |
| | | The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. |
| | | If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ |

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3.3.4 Test Setup



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3.3.5 Test Result of Maximum Conducted Output Power

| | Maximum Conducted Output Power (5150-5250MHz band) | | | | | | | | |
|-----------------|--|----------------|--------------|--------------|--------------|-----------|--------------------------|-------------|--|
| Modulation Mode | N _{TX} | Freq. (MHz) | Chain Port 1 | Chain Port 2 | Chain Port 3 | Sum Chain | Antenna Gain (dBi) | Power Limit | |
| 11a | 1 | 5180 | 24.97 | - | - | 24.97 | 5.01 | 30.00 | |
| 11a | 1 | 5200 | 27.53 | - | - | 27.53 | 5.01 | 30.00 | |
| 11a | 1 | 5240 | 27.22 | - | - | 27.22 | 5.01 | 30.00 | |
| HT20 | 3 | 5180 | 19.50 | 19.66 | 19.26 | 24.25 | 5.01 | 30.00 | |
| HT20 | 3 | 5200 | 19.56 | 19.18 | 20.15 | 24.42 | 5.01 | 30.00 | |
| HT20 | 3 | 5240 | 19.71 | 19.46 | 18.45 | 24.01 | 5.01 | 30.00 | |
| HT40 | 3 | 5190 | 21.10 | 22.88 | 23.41 | 27.34 | 5.01 | 30.00 | |
| HT40 | 3 | 5230 | 21.39 | 22.33 | 23.71 | 27.35 | 5.01 | 30.00 | |
| VHT20 | 3 | 5180 | 19.71 | 19.89 | 18.93 | 24.30 | 5.01 | 30.00 | |
| VHT20 | 3 | 5200 | 20.00 | 19.62 | 18.68 | 24.24 | 5.01 | 30.00 | |
| VHT20 | 3 | 5240 | 20.65 | 19.36 | 18.87 | 24.46 | 5.01 | 30.00 | |
| VHT40 | 3 | 5190 | 19.18 | 20.92 | 20.96 | 25.20 | 5.01 | 30.00 | |
| VHT40 | 3 | 5230 | 21.82 | 22.56 | 23.34 | 27.39 | 5.01 | 30.00 | |
| VHT80 | 3 | 5210 | 19.31 | 20.13 | 20.31 | 24.71 | 5.01 | 30.00 | |
| Resu | ılt | | | | Com | plied | | | |

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| | | Maxim | num Conducted | d Output Powe | r (5725-5850MI | Hz band) | | |
|-----------------|-----------------|----------------|---------------|---------------|----------------|-----------|--------------------------|-------------|
| Modulation Mode | N _{TX} | Freq. (MHz) | Chain Port 1 | Chain Port 2 | Chain Port 3 | Sum Chain | Antenna Gain (dBi) | Power Limit |
| 11a | 1 | 5745 | 23.90 | - | - | 23.90 | 5.01 | 30.00 |
| 11a | 1 | 5785 | 26.18 | - | - | 26.18 | 5.01 | 30.00 |
| 11a | 1 | 5825 | 26.53 | - | - | 26.53 | 5.01 | 30.00 |
| HT20 | 3 | 5745 | 23.02 | 20.98 | 24.82 | 27.99 | 5.01 | 30.00 |
| HT20 | 3 | 5785 | 24.04 | 22.12 | 25.58 | 28.91 | 5.01 | 30.00 |
| HT20 | 3 | 5825 | 22.42 | 23.18 | 24.32 | 28.15 | 5.01 | 30.00 |
| HT40 | 3 | 5755 | 18.24 | 20.60 | 19.37 | 24.28 | 5.01 | 30.00 |
| HT40 | 3 | 5795 | 24.81 | 23.17 | 26.32 | 29.73 | 5.01 | 30.00 |
| VHT20 | 3 | 5745 | 23.60 | 25.74 | 21.22 | 28.67 | 5.01 | 30.00 |
| VHT20 | 3 | 5785 | 23.72 | 25.12 | 25.96 | 29.80 | 5.01 | 30.00 |
| VHT20 | 3 | 5825 | 22.80 | 20.69 | 24.48 | 27.70 | 5.01 | 30.00 |
| VHT40 | 3 | 5755 | 22.24 | 21.02 | 24.84 | 27.77 | 5.01 | 30.00 |
| VHT40 | 3 | 5795 | 25.16 | 22.95 | 26.16 | 29.72 | 5.01 | 30.00 |
| VHT80 | 3 | 5775 | 22.71 | 22.87 | 23.35 | 27.76 | 5.01 | 30.00 |
| Resu | lt | | | • | Com | plied | | |

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3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

| | | Peak Power Spectral Density Limit |
|-------------|-------------|--|
| UNI | I Dev | rices |
| \boxtimes | For | the 5.15-5.25 GHz band: |
| | | Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. |
| | | Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. |
| | | Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. |
| | | Mobile or Portable Client: the peak power spectral density (PPSD) \leq 11 dBm/MHz. If $G_{TX} > 6$ dBi, then PPSD= 11 – $(G_{TX} - 6)$ |
| | | the 5.25-5.35 GHz band, the peak power spectral density (PPSD) \leq 11 dBm/MHz. If $G_{TX} > 6$ dBi, PPSD= 11 – ($G_{TX} - 6$). |
| | | the 5.47-5.725 GHz band, the peak power spectral density (PPSD) \leq 11 dBm/MHz. If $G_{TX} > 6$ dBi, PPSD= 11 – ($G_{TX} - 6$). |
| \boxtimes | For | the 5.725-5.85 GHz band: |
| | \boxtimes | Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) \leq 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then PPSD= $30 - (G_{TX} - 6)$. |
| | | Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |
| pow | er sh | peak power spectral density that he same method as used to determine the conducted output hall be used to determine the power spectral density. And power spectral density in dBm/MHz amaximum transmitting antenna directional gain in dBi. |

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3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

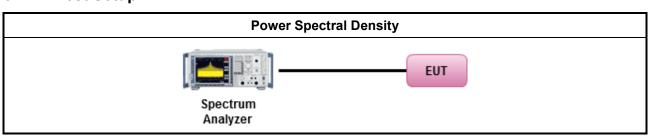
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3.4.3 Test Procedures

| | Test Method |
|-------------|---|
| outp | c power spectral density procedures that the same method as used to determine the conducted out power shall be used to determine the peak power spectral density and use the peak search tion on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density be measured using below options: |
| | Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth |
| [duty | cycle ≥ 98% or external video / power trigger] |
| \boxtimes | Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging). |
| | Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed) |
| duty | cycle < 98% and average over on/off periods with duty factor |
| | Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). |
| | Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) |
| For o | conducted measurement. |
| \boxtimes | The EUT supports single transmit chain and measurements performed on this transmit chain 1. |
| | The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case. |
| \boxtimes | The EUT supports multiple transmit chains using options given below: |
| | Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. |
| | Option 2: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. |
| | If multiple transmit chains, EIRP PPSD calculation could be following as methods: $ PPSD_{total} = PPSD_1 + PPSD_2 + + PPSD_n \\ (calculated in linear unit [mW] and transfer to log unit [dBm]) \\ EIRP_{total} = PPSD_{total} + DG $ |
| \boxtimes | Each individually PPSD plots refer as test report clause 3.3.5 with each individually PPSD plots. |

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3.4.4 Test Setup



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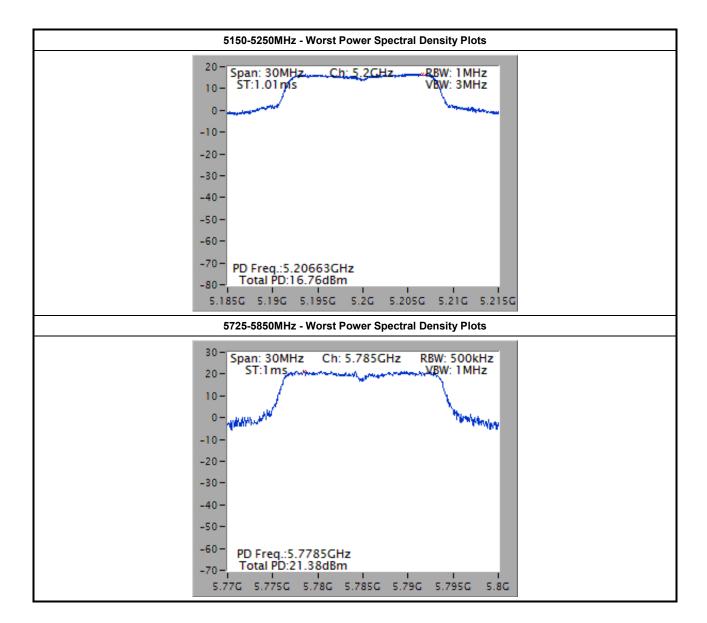
3.4.5 Test Result of Peak Power Spectral Density

| | | Peak P | ower Spectral Density Result (| 5150-5250MHz band) | |
|-----------------|-----------------|----------------|--------------------------------------|--------------------|--------------------|
| Modulation Mode | N _{TX} | Freq. (MHz) | Peak Power Spectral Density (dBm) | PSD Limit | Antenna Gain (dBi) |
| 11a | 1 | 5180 | 14.24 | 17.00 | 5.01 |
| 11a | 1 | 5200 | 16.76 | 17.00 | 5.01 |
| 11a | 1 | 5240 | 16.40 | 17.00 | 5.01 |
| HT20 | 3 | 5180 | 13.05 | 13.22 | 9.78 |
| HT20 | 3 | 5200 | 13.11 | 13.22 | 9.78 |
| HT20 | 3 | 5240 | 12.63 | 13.22 | 9.78 |
| HT40 | 3 | 5190 | 12.96 | 13.22 | 9.78 |
| HT40 | 3 | 5230 | 13.02 | 13.22 | 9.78 |
| VHT20 | 3 | 5180 | 13.02 | 13.22 | 9.78 |
| VHT20 | 3 | 5200 | 12.91 | 13.22 | 9.78 |
| VHT20 | 3 | 5240 | 13.08 | 13.22 | 9.78 |
| VHT40 | 3 | 5190 | 10.82 | 13.22 | 9.78 |
| VHT40 | 3 | 5230 | 12.95 | 13.22 | 9.78 |
| VHT80 | 3 | 5210 | 8.37 | 13.22 | 9.78 |
| Resu | ult | | <u>.</u> | Complied | |

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| | | Peak P | ower Spectral Density Resul | t (5725-5850MHz band) | |
|-----------------|-----------------|----------------|--------------------------------------|-----------------------|--------------------|
| Modulation Mode | N _{TX} | Freq. (MHz) | Peak Power Spectral Density (dBm) | PSD Limit (500kHz) | Antenna Gain (dBi) |
| 11a | 1 | 5745 | 16.48 | 30.00 | 5.01 |
| 11a | 1 | 5785 | 18.21 | 30.00 | 5.01 |
| 11a | 1 | 5825 | 19.07 | 30.00 | 5.01 |
| HT20 | 3 | 5745 | 18.63 | 26.22 | 9.78 |
| HT20 | 3 | 5785 | 20.46 | 26.22 | 9.78 |
| HT20 | 3 | 5825 | 20.09 | 26.22 | 9.78 |
| HT40 | 3 | 5755 | 12.72 | 26.22 | 9.78 |
| HT40 | 3 | 5795 | 17.93 | 26.22 | 9.78 |
| VHT20 | 3 | 5745 | 20.89 | 26.22 | 9.78 |
| VHT20 | 3 | 5785 | 21.38 | 26.22 | 9.78 |
| VHT20 | 3 | 5825 | 19.64 | 26.22 | 9.78 |
| VHT40 | 3 | 5755 | 17.00 | 26.22 | 9.78 |
| VHT40 | 3 | 5795 | 18.73 | 26.22 | 9.78 |
| VHT80 | 3 | 5775 | 14.18 | 26.22 | 9.78 |
| Resi | ılt | • | | Complied | |

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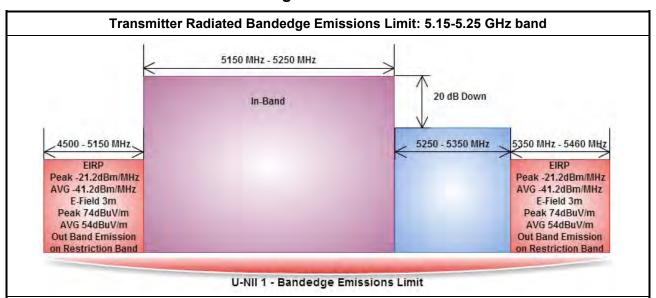


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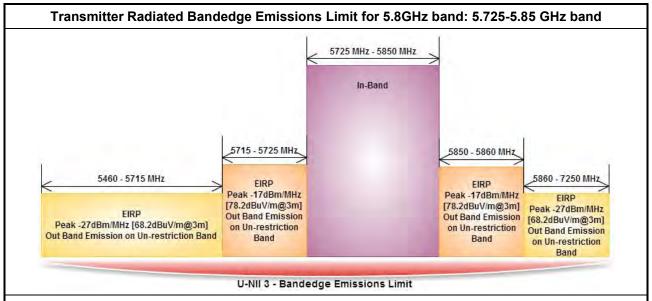
3.5 Transmitter Bandedge Emissions

3.5.1 Transmitter Radiated Bandedge Emissions Limit



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Refer as FCC KDB 789033, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.



Refer as FCC KDB 789033, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.

3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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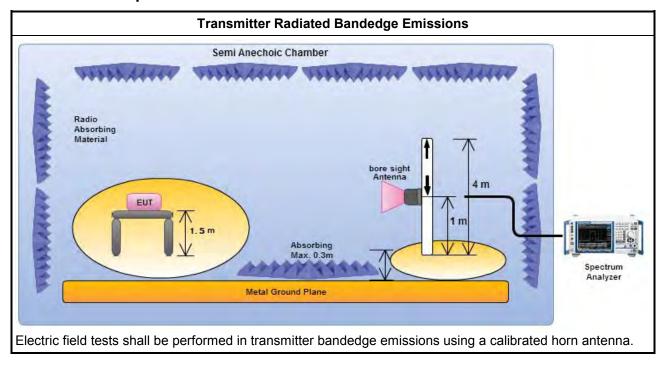
3.5.3 Test Procedures

| | Test Method |
|-------------|---|
| \boxtimes | The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. |
| \boxtimes | Refer as ANSI C63.10, clause 6.10 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. |
| | If EUT operate in adjacent contiguous bands, bandedge testing performed at the lowest frequency channel at lower-band and highest frequency channel at higher-band. Transmitter in-band emissions will consist of adjacent contiguous bands (e.g., IEEE 802.11ac VHT160 The lowest frequency channel at lower-band and highest frequency channel at higher-band in-band emissions will consist of two adjacent contiguous bands.) |
| | Operating in 5.15-5.25 GHz band (lower-band) and 5.25-5.35 GHz band (higher-band). |
| | Operating in 5.47-5.725 GHz band (lower-band) and 5.725-5.85 GHz band (higher-band). |
| | If EUT operate in individual non-contiguous bands, bandedge testing performed at the lowest frequency channel and highest frequency channel within lower-band and higher-band. (e.g., (e.g., IEEE 802.11ac VHT160) |
| | Operating in 5.25-5.35 GHz band (lower-band) and 5.47-5.725 GHz band (higher-band). |
| | Operating in 5.15-5.25 GHz band (lower-band) and 5.725-5.85 GHz band (higher-band). |
| \boxtimes | For the transmitter unwanted emissions shall be measured using following options below: |
| | Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands. |
| | Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands. |
| | Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging). |
| | Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW). |
| | Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. |
| | Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions. |
| | □ Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit. |
| | Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit. |
| \boxtimes | For the transmitter bandedge emissions shall be measured using following options below: |
| | Refer as FCC KDB 789033, clause H)3)d) for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz). |
| | Refer as ANSI C63.10, clause 6.10 for band-edge testing. |
| | Refer as ANSI C63.10, clause 6.10.6.2 for marker-delta method for band-edge measurements. |
| \boxtimes | For radiated measurement, refer as ANSI C63.10, clause 6.6. Test distance is 3m. |
| | Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 3m, because the instrumentation noise floor is typically close to the radiated emission limit. |

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3.5.4 Test Setup



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3.5.5 Transmitter Radiated Bandedge Emissions (with Antenna)

| U-NII 5150-5250MHz Transmitter Radiated Bandedge (with Antenna) | | | | | | | | | | | | |
|---|-----------------|----------------|----------------------------|----------------------|-------------------------|-------------------------|----------------------|-------------------------|-------------------------|------|--|--|
| Modulation Mode | N _{TX} | Freq. (MHz) | Measure Distance (m) | Freq. (MHz) PK | Level (dBuV/m) PK | Limit (dBuV/m) PK | Freq. (MHz) AV | Level (dBuV/m) AV | Limit (dBuV/m) AV | Pol. | | |
| 11a | 1 | 5180 | 3 | 5148.600 | 66.86 | 74 | 5150.000 | 50.62 | 54 | V | | |
| 11a | 1 | 5240 | 3 | 5362.180 | 61.97 | 74 | 5356.600 | 48.59 | 54 | V | | |
| HT20 | 3 | 5180 | 3 | 5146.800 | 66.54 | 74 | 5148.000 | 52.39 | 54 | V | | |
| HT20 | 3 | 5240 | 3 | 5361.600 | 63.59 | 74 | 5361.000 | 50.32 | 54 | V | | |
| HT40 | 3 | 5190 | 3 | 5147.740 | 64.57 | 74 | 5149.940 | 52.29 | 54 | V | | |
| HT40 | 3 | 5230 | 3 | 5376.600 | 62.35 | 74 | 5367.600 | 48.78 | 54 | V | | |
| VHT20 | 3 | 5180 | 3 | 5146.200 | 66.97 | 74 | 5148.200 | 51.99 | 54 | V | | |
| VHT20 | 3 | 5240 | 3 | 5365.200 | 62.42 | 74 | 5400.000 | 50.73 | 54 | V | | |
| VHT40 | 3 | 5190 | 3 | 5147.740 | 65.83 | 74 | 5149.940 | 52.89 | 54 | V | | |
| VHT40 | 3 | 5230 | 3 | 5368.200 | 62.69 | 74 | 5356.200 | 49.77 | 54 | V | | |
| VHT80 | 3 | 5210 | 3 | 5360.400 | 59.94 | 74 | 5370.000 | 46.83 | 54 | V | | |

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| Modulation Mode | N _{TX} | Freq. (MHz) | Measure Distance (m) | Freq. (MHz) PK | Level (dBuV/m) PK | Limit (dBuV/m) PK | Pol. |
|--------------------|-----------------|----------------|----------------------------|-------------------|-------------------------|-------------------------|------|
| 11a | 1 | 5745 | 3 | 5711.740 | 65.91 | 68.20 | V |
| 11a | 1 | 5825 | 3 | 5860.570 | 66.57 | 68.20 | V |
| HT20 | 3 | 5745 | 3 | 5712.132 | 66.48 | 68.20 | V |
| HT20 | 3 | 5825 | 3 | 5860.150 | 66.41 | 68.20 | V |
| HT40 | 3 | 5755 | 3 | 5712.140 | 67.09 | 68.20 | V |
| HT40 | 3 | 5795 | 3 | 5861.800 | 66.68 | 68.20 | V |
| VHT20 | 3 | 5745 | 3 | 5700.400 | 66.38 | 68.20 | V |
| VHT20 | 3 | 5825 | 3 | 5861.410 | 66.45 | 68.20 | V |
| VHT40 | 3 | 5755 | 3 | 5715.000 | 67.20 | 68.20 | V |
| VHT40 | 3 | 5795 | 3 | 5862.400 | 65.37 | 68.20 | V |
| VHT80 | 3 | 5775 | 3 | 5708.860 | 66.43 | 68.20 | V |

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3.6 Transmitter Unwanted Emissions

3.6.1 Transmitter Radiated Unwanted Emissions Limit

| Unwanted emiss | sions below 1 GHz and re | stricted band emissions a | bove 1GHz limit |
|-----------------------|--------------------------|---------------------------|----------------------|
| Frequency Range (MHz) | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490 | 2400/F(kHz) | 48.5 - 13.8 | 300 |
| 0.490~1.705 | 24000/F(kHz) | 33.8 - 23 | 30 |
| 1.705~30.0 | 30 | 29 | 30 |
| 30~88 | 100 | 40 | 3 |
| 88~216 | 150 | 43.5 | 3 |
| 216~960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

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Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

| | Un-restricted band emissions above 1GHz Limit |
|------------------|--|
| Operating Band | Limit |
| 5.15 - 5.25 GHz | e.i.r.p27 dBm [68.2 dBuV/m@3m] |
| 5.25 - 5.35 GHz | e.i.r.p27 dBm [68.2 dBuV/m@3m] |
| 5.47 - 5.725 GHz | e.i.r.p27 dBm [68.2 dBuV/m@3m] |
| 5.725 - 5.85 GHz | 5.715 5.725 GHz: e.i.r.p17 dBm [78.2 dBuV/m@3m] 5.85 5.86 GHz: e.i.r.p17 dBm [78.2 dBuV/m@3m] Other un-restricted band: e.i.r.p27 dBm [68.2 dBuV/m@3m] |

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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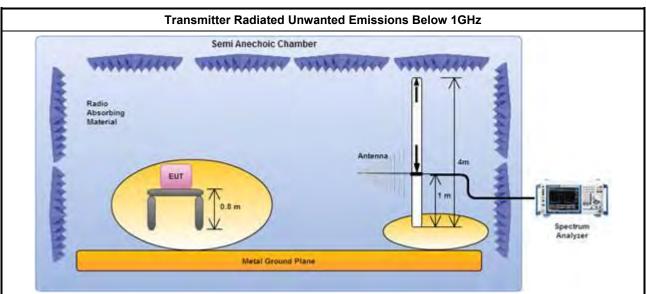
3.6.3 Test Procedures

| | | Test Method |
|-------------|---|--|
| | perfe equi abov are i be e dista | issurements may be performed at a distance other than the limit distance provided they are not formed in the near field and the emissions to be measured can be detected by the measurement ipment. Measurements shall not be performed at a distance greater than 30 m for frequencies we 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less impractical. When performing measurements at a distance other than that specified, the results shall extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear ance for field-strength measurements, inverse of linear distance-squared for power-density issurements). |
| \boxtimes | The | average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. |
| | For | the transmitter unwanted emissions shall be measured using following options below: |
| | \boxtimes | Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands. |
| | \boxtimes | Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands. |
| | | Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging). |
| | | Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW). |
| | | Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. |
| | | Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions. |
| | | Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit. |
| | | Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit. |
| | For | radiated measurement. |
| | \boxtimes | Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. |
| | | Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. |
| | | Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. For 1 GHz to 5 GHz, test distance is 3m; For 5 GHz to 40 GHz, test distance is 3m. |
| | The | any unwanted emissions level shall not exceed the fundamental emission level. |
| \boxtimes | | implitude of spurious emissions that are attenuated by more than 20 dB below the permissible value no need to be reported. |

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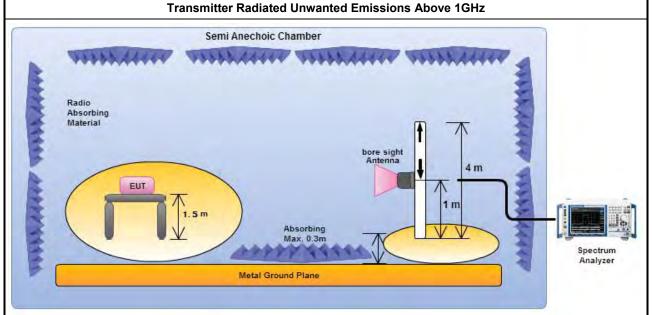
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3.6.4 Test Setup



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Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna.



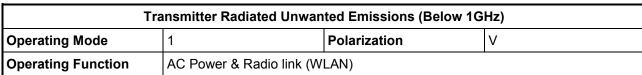
Electric field tests shall be performed in the frequency range of 1 GHz to 10th harmonic of highest fundamental frequency or 40 GHz using a calibrated horn antenna.

3.6.5 Transmitter Radiated Unwanted Emissions-with Antenna (Below 30MHz)

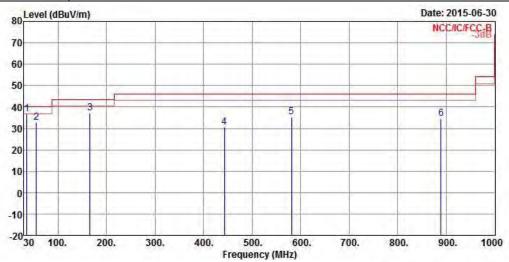
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

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Transmitter Radiated Unwanted Emissions (Below 1GHz)



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| | Freq | Level | Over Limit dB | 4200 | | Factor | | Preamp Factor dB | Remark |
|-----|---------|-------|---------------------|-------|-------|--------|------|------------------------|--------|
| - | | | | | | | | | |
| | 35.820 | 36.66 | -3.34 | 40.00 | 48.47 | 15.21 | 0.82 | 27.84 | Peak |
| | 55.220 | 32.66 | -7.34 | 40.00 | 52.79 | 6.53 | 1.04 | 27.70 | Peak |
| 1 | 165.800 | 37.36 | -6.14 | 43.50 | 53.19 | 9.80 | 1.86 | 27.49 | Peak |
| | 143.220 | 30.63 | -15.37 | 46.00 | 39.37 | 16.26 | 3.10 | 28.10 | Peak |
| 5 ! | 80.960 | 35.26 | -10.74 | 46.00 | 41.82 | 18.28 | 3.63 | 28.47 | Peak |
| 5 8 | 389.420 | 34.72 | -11.28 | 46.00 | 37.75 | 20.09 | 4.54 | 27.66 | Peak |
| | | | | | | | | | |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

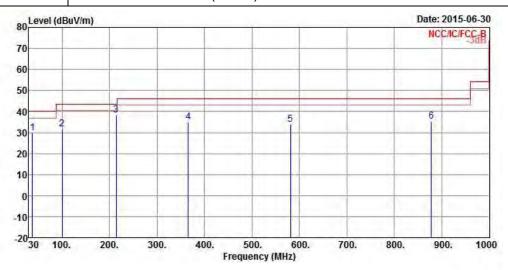
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Transmitter Radiated Unwanted Emissions (Below 1GHz)

Operating Mode 1 Polarization H

Operating Function AC Power & Radio link (WLAN)

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| | Freq | Level | Over Limit | | | Antenna Factor | | Preamp Factor | Remark |
|---|---------|--------|---------------|--------|-------|-------------------|------|------------------|--------|
| - | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | _ |
| 1 | 37.760 | 29.81 | -10.19 | 40.00 | 42.82 | 13.97 | 0.83 | 27.81 | Peak |
| 2 | 99.840 | 31.73 | -11.77 | 43.50 | 47.67 | 10.39 | 1.40 | 27.73 | Peak |
| 3 | 214.300 | 38.18 | -5.32 | 43.50 | 54.63 | 8.75 | 2.13 | 27.33 | Peak |
| 4 | 365.620 | 34.86 | -11.14 | 46.00 | 45.13 | 14.50 | 2.83 | 27.60 | Peak |
| 5 | 580.960 | 33.99 | -12.01 | 46.00 | 40.55 | 18.28 | 3.63 | 28.47 | Peak |
| 6 | 877.780 | 35.40 | -10.60 | 46.00 | 38.51 | 20.07 | 4.53 | 27.71 | Peak |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

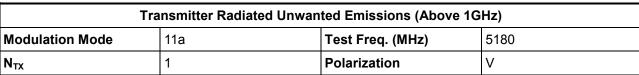
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

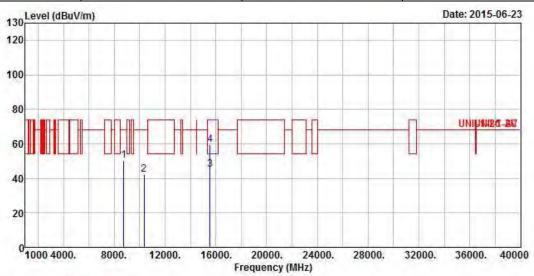
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5150-5250MHz

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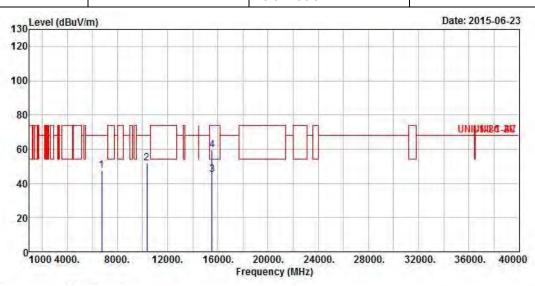


| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | and the second second | Remark |
|---|-----------|--------|---------------|---------------|-------|-------------------|------|-----------------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8745.000 | 50.43 | -17.77 | 68.20 | 43.45 | 36.35 | 5.74 | 35.11 | Peak |
| 2 | 10360.000 | 42.14 | -26.06 | 68.20 | 33.30 | 37.47 | 6.38 | 35.01 | Peak |
| 3 | 15540.000 | 45.15 | -8.85 | 54.00 | 31.30 | 40.65 | 7.99 | 34.79 | Average |
| 4 | 15540.000 | 59.35 | -14.65 | 74.00 | 45.50 | 40.65 | 7.99 | 34.79 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| 1 | ransmitter Radiated Unw | anted Emissions (Above | 1GHz) |
|-----------------|-------------------------|------------------------|-------|
| Modulation Mode | 11a | Test Freq. (MHz) | 5180 |
| NTY | 1 | Polarization | Н |



| | Freq | Level | Over Limit | | | Antenna Factor | | | Remark |
|---|-----------|--------|---------------|--------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 6745.000 | 47.31 | -20.89 | 68.20 | 41.19 | 35.75 | 5.19 | 34.82 | Peak |
| 2 | 10360.000 | 51.57 | -16.63 | 68.20 | 42.73 | 37.47 | 6.38 | 35.01 | Peak |
| 3 | 15540.000 | 44.95 | -9.05 | 54.00 | 31.10 | 40.65 | 7.99 | 34.79 | Average |
| 4 | 15540.000 | 59.41 | -14.59 | 74.00 | 45.56 | 40.65 | 7.99 | 34.79 | Peak |

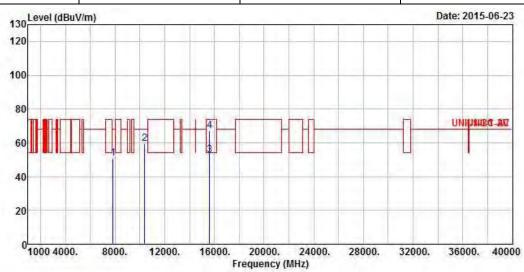
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Tra | ınsmitter Radiated Unwan | ted Emissions (Above 1G | iHz) |
|-----------------|--------------------------|-------------------------|------|
| Modulation Mode | 11a | Test Freq. (MHz) | 5200 |
| N _{TX} | 1 | Polarization | V |

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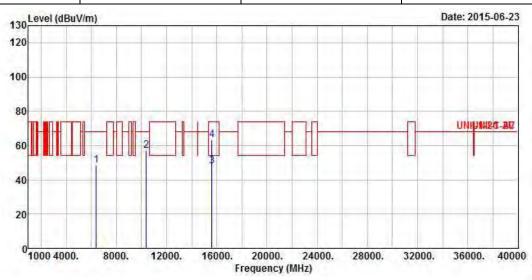


| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | | | |
|---|-----------|--------|---------------|---------------|-------|-------------------|------|-------|---------|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | _ | - |
| 1 | 7841.000 | 50.84 | -17.36 | 68.20 | 44.41 | 36.07 | 5.44 | 35.08 | Peak | |
| 2 | 10400.000 | 59.29 | -8.91 | 68.20 | 50.41 | 37.50 | 6.35 | 34.97 | Peak | |
| 3 | 15600.000 | 52.83 | -1.17 | 54.00 | 39.00 | 40.74 | 7.96 | 34.87 | Average | |
| 4 | 15600.000 | 67.34 | -6.66 | 74.00 | 53.51 | 40.74 | 7.96 | 34.87 | Peak | |
| | | | | | | | | | | |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Tra | nsmitter Radiated Unwan | ted Emissions (Above 1G | Hz) |
|-----------------|-------------------------|-------------------------|------|
| Modulation Mode | 11a | Test Freq. (MHz) | 5200 |
| N _{TX} | 1 | Polarization | Н |



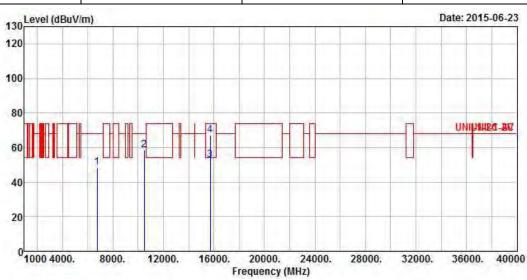
| | | | Over | Limit | Read | Antenna | Cable | Preamp | |
|---|-----------|--------|--------|--------|-------|---------|-------|--------|---------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 6412.000 | 48.47 | -19.73 | 68.20 | 42.30 | 35.66 | 5.26 | 34.75 | Peak |
| 2 | 10400.000 | 57.30 | -10.90 | 68.20 | 48.42 | 37.50 | 6.35 | 34.97 | Peak |
| 3 | 15600.000 | 48.15 | -5.85 | 54.00 | 34.32 | 40.74 | 7.96 | 34.87 | Average |
| 4 | 15600.000 | 63.39 | -10.61 | 74.00 | 49.56 | 40.74 | 7.96 | 34.87 | Peak |
| | | | | | | | | | |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Tra | ınsmitter Radiated Unwan | ted Emissions (Above 1G | Hz) |
|-----------------|--------------------------|-------------------------|------|
| Modulation Mode | 11a | Test Freq. (MHz) | 5240 |
| N _{TX} | 1 | Polarization | V |

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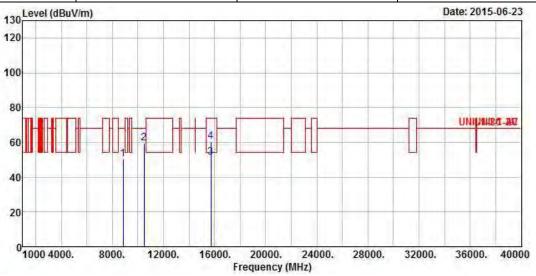
| | Freq | Level | Over Limit | Limit Line | 0.000 | Antenna Factor | | Preamp Factor | Remark |
|---|-----------|--------|---------------|---------------|-------|-------------------|------|------------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 6748.000 | 48.65 | -19.55 | 68.20 | 42.53 | 35.75 | 5.19 | 34.82 | Peak |
| 2 | 10480.000 | 58.50 | -9.70 | 68.20 | 49.52 | 37.58 | 6.30 | 34.90 | Peak |
| 3 | 15720.000 | 52.91 | -1.09 | 54.00 | 39.13 | 40.91 | 7.86 | 34.99 | Average |
| 4 | 15720.000 | 67.27 | -6.73 | 74.00 | 53.49 | 40.91 | 7.86 | 34.99 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Tra | nsmitter Radiated Unwan | ted Emissions (Above 1G | Hz) |
|-----------------|-------------------------|-------------------------|------|
| Modulation Mode | 11a | Test Freq. (MHz) | 5240 |
| N _{TX} | 1 | Polarization | Н |



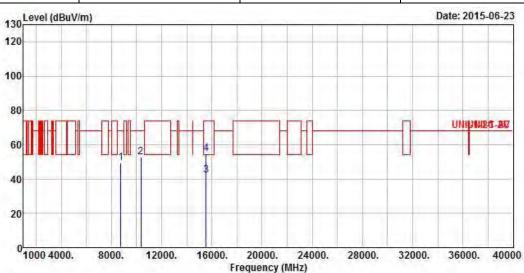
| | Freq | Freq Level | | | | ReadAntenna Level Factor | | | |
|---|-----------|------------|--------|--------|-------|-----------------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8841.000 | 50.48 | -17.72 | 68.20 | 43.41 | 36.37 | 5.82 | 35.12 | Peak |
| 2 | 10480.000 | 59.39 | -8.81 | 68.20 | 50.41 | 37.58 | 6.30 | 34.90 | Peak |
| 3 | 15720.000 | 51.30 | -2.70 | 54.00 | 37.52 | 40.91 | 7.86 | 34.99 | Average |
| 4 | 15720.000 | 60.31 | -13.69 | 74.00 | 46.53 | 40.91 | 7.86 | 34.99 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|------|------------------|------|--|--|--|--|--|
| Modulation Mode | HT20 | Test Freq. (MHz) | 5180 | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | |

Report No.: FR552736AN



| | | | Over | Limit | Read | Antenna | Cable | Preamp | |
|---|-----------|--------|--------|--------|-------|---------|-------|--------|---------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8745.000 | 49.52 | -18.68 | 68.20 | 42.54 | 36.35 | 5.74 | 35.11 | Peak |
| 2 | 10360.000 | 52.82 | -15.38 | 68.20 | 43.98 | 37.47 | 6.38 | 35.01 | Peak |
| 3 | 15540.000 | 42.26 | -11.74 | 54.00 | 28.41 | 40.65 | 7.99 | 34.79 | Average |
| 4 | 15540.000 | 54.81 | -19.19 | 74.00 | 40.96 | 40.65 | 7.99 | 34.79 | Peak |
| | | | | | | | | | |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

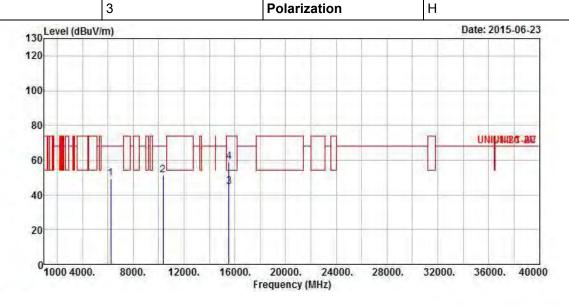
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 N_{TX}

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5180

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| Freq | Level | | | | Antenna Factor | | | |
|-----------|--------|--------|--------|-------|-------------------|------|-------|---------|
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 6231.000 | 49.24 | -18.96 | 68.20 | 43.14 | 35.59 | 5.24 | 34.73 | Peak |
| 10360.000 | 51.52 | -16.68 | 68.20 | 42.68 | 37.47 | 6.38 | 35.01 | Peak |
| 15540.000 | 44.83 | -9.17 | 54.00 | 30.98 | 40.65 | 7.99 | 34.79 | Average |
| 15540.000 | 58.95 | -15.05 | 74.00 | 45.10 | 40.65 | 7.99 | 34.79 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

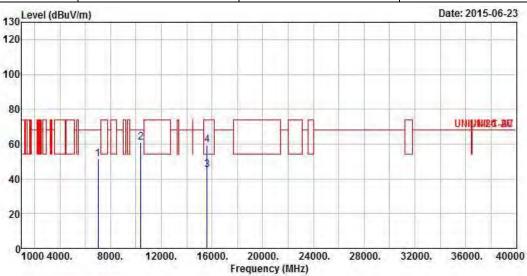
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FAX: 886-3-327-0973

1 2 3

| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | | |
|--|------|------------------|------|--|--|--|--|--|--|
| Modulation Mode | HT20 | Test Freq. (MHz) | 5200 | | | | | | |
| N_{TX} | 3 | Polarization | V | | | | | | |

Report No.: FR552736AN



| | | | Over | Limit | Read | Antenna | Cable | Preamp | | |
|---|-----------|--------|--------|--------|-------|---------|-------|--------|---------|---|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | - |
| | 7012.000 | 51.12 | -17.08 | 68.20 | 45.11 | 35.81 | 5.09 | 34.89 | Peak | |
| | 10400.000 | 60.75 | -7.45 | 68.20 | 51.87 | 37.50 | 6.35 | 34.97 | Peak | |
| ř | 15600.000 | 45.04 | -8.96 | 54.00 | 31.21 | 40.74 | 7.96 | 34.87 | Average | |
| | 15600.000 | 59.57 | -14.43 | 74.00 | 45.74 | 40.74 | 7.96 | 34.87 | Peak | |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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FAX: 886-3-327-0973

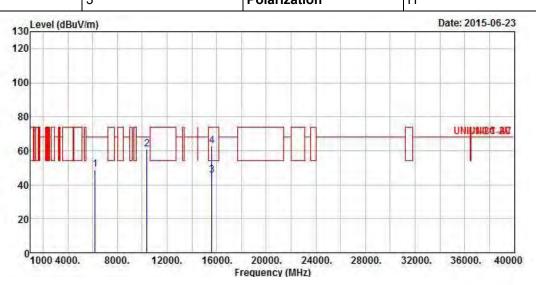
3

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5200

N_{TX} 3 Polarization H

Report No.: FR552736AN



| | | | Over | Limit | Read | Antenna | Cable | Preamp | |
|---|-----------|--------|--------|--------|-------|---------|-------|--------|---------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | _ |
| 1 | 6210.000 | 48.83 | -19.37 | 68.20 | 42.73 | 35.58 | 5.24 | 34.72 | Peak |
| 2 | 10400.000 | 61.01 | -7.19 | 68.20 | 52.13 | 37.50 | 6.35 | 34.97 | Peak |
| 3 | 15600.000 | 45.68 | -8.32 | 54.00 | 31.85 | 40.74 | 7.96 | 34.87 | Average |
| 4 | 15600.000 | 63.04 | -10.96 | 74.00 | 49.21 | 40.74 | 7.96 | 34.87 | Peak |
| | | | | | | | | | |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

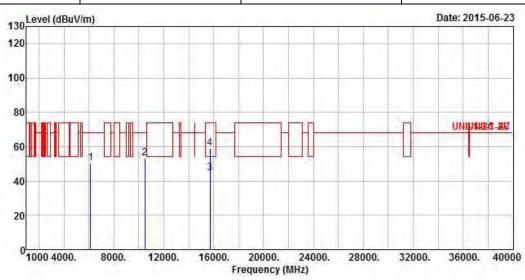
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|------|------------------|------|--|--|--|--|--|
| Modulation Mode | HT20 | Test Freq. (MHz) | 5240 | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | |

Report No.: FR552736AN

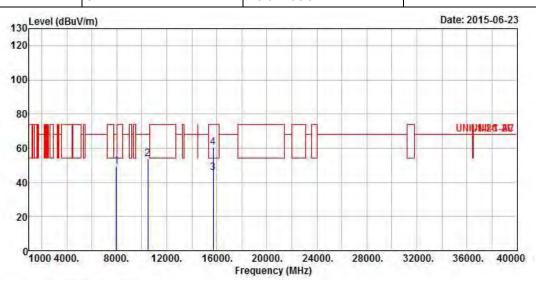


| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | and the second | Remark |
|---|-----------|--------|---------------|---------------|-------|-------------------|------|----------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 6141.000 | 50.27 | -17.93 | 68.20 | 44.21 | 35.55 | 5.23 | 34.72 | Peak |
| 2 | 10480.000 | 53.12 | -15.08 | 68.20 | 44.14 | 37.58 | 6.30 | 34.90 | Peak |
| 3 | 15720.000 | 44.84 | -9.16 | 54.00 | 31.06 | 40.91 | 7.86 | 34.99 | Average |
| 4 | 15720.000 | 58.77 | -15.23 | 74.00 | 44.99 | 40.91 | 7.86 | 34.99 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| | Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | | |
|-----------------|--|------------------|------|--|--|--|--|--|--|--|
| Modulation Mode | HT20 | Test Freq. (MHz) | 5240 | | | | | | | |
| N _{TY} | 3 | Polarization | Н | | | | | | | |



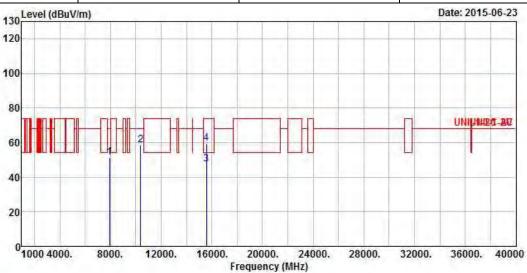
| Freq | Level | | | | | | | Remark |
|-----------|------------------------------------|--|---|---|--|--|---|---|
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 7985.000 | 49.39 | -18.81 | 68.20 | 43.11 | 36.10 | 5.31 | 35.13 | Peak |
| 10480.000 | 53.52 | -14.68 | 68.20 | 44.54 | 37.58 | 6.30 | 34.90 | Peak |
| 15720.000 | 45.77 | -8.23 | 54.00 | 31.99 | 40.91 | 7.86 | 34.99 | Average |
| 15720.000 | 60.65 | -13.35 | 74.00 | 46.87 | 40.91 | 7.86 | 34.99 | Peak |
| | 7985.000 10480.000 15720.000 | MHz dBuV/m 7985.000 49.39 10480.000 53.52 15720.000 45.77 | Freq Level Limit MHz dBuV/m dB 7985.000 49.39 -18.81 10480.000 53.52 -14.68 15720.000 45.77 -8.23 | Freq Level Limit Line MHz dBuV/m dB dBuV/m 7985.000 49.39 -18.81 68.20 10480.000 53.52 -14.68 68.20 15720.000 45.77 -8.23 54.00 | Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 7985.000 49.39 -18.81 68.20 43.11 10480.000 53.52 -14.68 68.20 44.54 15720.000 45.77 -8.23 54.00 31.99 | Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m 7985.000 49.39 -18.81 68.20 43.11 36.10 10480.000 53.52 -14.68 68.20 44.54 37.58 | Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 7985.000 49.39 -18.81 68.20 43.11 36.10 5.31 10480.000 53.52 -14.68 68.20 44.54 37.58 6.30 15720.000 45.77 -8.23 54.00 31.99 40.91 7.86 | 7985.000 49.39 -18.81 68.20 43.11 36.10 5.31 35.13 10480.000 53.52 -14.68 68.20 44.54 37.58 6.30 34.90 15720.000 45.77 -8.23 54.00 31.99 40.91 7.86 34.99 |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|------|------------------|------|--|--|--|--|--|
| Modulation Mode | HT40 | Test Freq. (MHz) | 5190 | | | | | |
| N_{TX} | 3 | Polarization | V | | | | | |

Report No.: FR552736AN



| | Freq | Level | | | | Antenna Factor | | | Remark | |
|---|-----------|--------|--------|--------|-------|-------------------|------|-------|---------|--|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | |
| 1 | 7952.000 | 51.16 | -17.04 | 68.20 | 44.85 | 36.09 | 5.34 | 35.12 | Peak | |
| 2 | 10380.000 | 58.36 | -9.84 | 68.20 | 49.52 | 37.48 | 6.35 | 34.99 | Peak | |
| 3 | 15570.000 | 47.69 | -6.31 | 54.00 | 33.85 | 40.70 | 7.96 | 34.82 | Average | |
| 4 | 15570.000 | 59.59 | -14.41 | 74.00 | 45.75 | 40.70 | 7.96 | 34.82 | Peak | |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

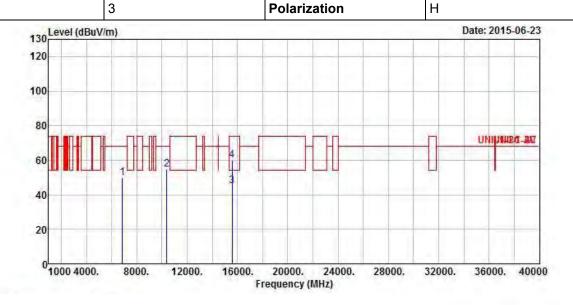
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 N_{TX}

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 5190

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| | Freq | Level | | Limit Line | | | | | Remark | |
|---|-----------|--------|--------|---------------|-------|-------|------|-------|---------|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | - |
| 1 | 6852.000 | 49.80 | -18.40 | 68.20 | 43.74 | 35.77 | 5.14 | 34.85 | Peak | |
| 2 | 10380.000 | 54.55 | -13.65 | 68.20 | 45.71 | 37.48 | 6.35 | 34.99 | Peak | |
| 3 | 15570.000 | 45.25 | -8.75 | 54.00 | 31.41 | 40.70 | 7.96 | 34.82 | Average | |
| 4 | 15570.000 | 59.82 | -14.18 | 74.00 | 45.98 | 40.70 | 7.96 | 34.82 | Peak | |

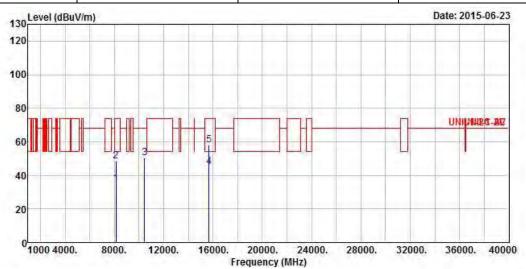
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|------|------------------|------|--|--|--|--|--|
| Modulation Mode | HT40 | Test Freq. (MHz) | 5230 | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | |

Report No.: FR552736AN



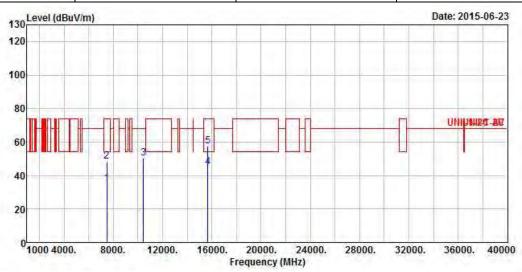
| | Freq | Level | 9-37-36 | Limit Line | | Antenna Factor | | | Remark |
|---|-----------|--------|---------|---------------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8148.000 | 35.04 | -18.96 | 54.00 | 28.64 | 36.16 | 5.36 | 35.12 | Average |
| 2 | 8148.000 | 48.67 | -25.33 | 74.00 | 42.27 | 36.16 | 5.36 | 35.12 | Peak |
| 3 | 10460.000 | 50.20 | -18.00 | 68.20 | 41.27 | 37.55 | 6.30 | 34.92 | Peak |
| 4 | 15690.000 | 44.99 | -9.01 | 54.00 | 31.22 | 40.87 | 7.86 | 34.96 | Average |
| 5 | 15690.000 | 58.18 | -15.82 | 74.00 | 44.41 | 40.87 | 7.86 | 34.96 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|------|------------------|------|--|--|--|--|--|
| Modulation Mode | HT40 | Test Freq. (MHz) | 5230 | | | | | |
| N_{TX} | 3 | Polarization | Н | | | | | |

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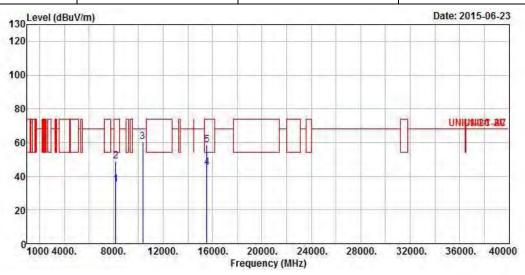


| | Freq | Level | Over Limit | 7.7 | | Antenna Factor | 707 T. T. | Preamp Factor | Remark |
|---|-----------|--------|---------------|--------|-------|-------------------|-----------|------------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 7486.000 | 34.84 | -19.16 | 54.00 | 28.16 | 36.00 | 5.66 | 34.98 | Average |
| 2 | 7486.000 | 48.57 | -25.43 | 74.00 | 41.89 | 36.00 | 5.66 | 34.98 | Peak |
| 3 | 10460.000 | 50.25 | -17.95 | 68.20 | 41.32 | 37.55 | 6.30 | 34.92 | Peak |
| 4 | 15690.000 | 44.97 | -9.03 | 54.00 | 31.20 | 40.87 | 7.86 | 34.96 | Average |
| 5 | 15690.000 | 57.48 | -16.52 | 74.00 | 43.71 | 40.87 | 7.86 | 34.96 | Peak |
| | | | | | | | | | |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5180 | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | |



| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | Preamp Factor | Remark | |
|---|-----------|--------|---------------|---------------|-------|-------------------|------|------------------|---------|--|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | _ | |
| 1 | 8155.960 | 34.98 | -19.02 | 54.00 | 28.57 | 36.16 | 5.36 | 35.11 | Average | |
| 2 | 8155.960 | 48.70 | -25.30 | 74.00 | 42.29 | 36.16 | 5.36 | 35.11 | Peak | |
| 3 | 10360.000 | 60.65 | -7.55 | 68.20 | 51.81 | 37.47 | 6.38 | 35.01 | Peak | |
| 4 | 15540.000 | 45.05 | -8.95 | 54.00 | 31.20 | 40.65 | 7.99 | 34.79 | Average | |
| 5 | 15540.000 | 58.33 | -15.67 | 74.00 | 44.48 | 40.65 | 7.99 | 34.79 | Peak | |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

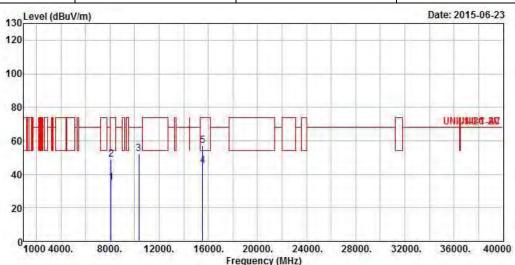
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5180 | | | | | |
| N_{TX} | 3 | Polarization | Н | | | | | |

Report No.: FR552736AN



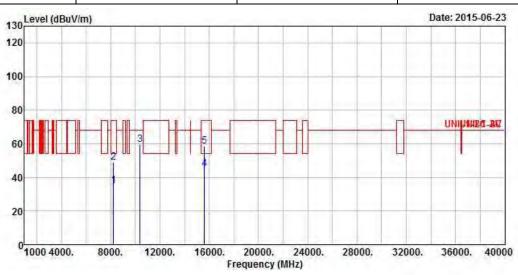
| | Freq | Level | Over Limit | | | Antenna Factor | | Preamp Factor | |
|---|-----------|--------|---------------|--------|-------|-------------------|------|------------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8093.700 | 34.87 | -19.13 | 54.00 | 28.52 | 36.13 | 5.35 | 35.13 | Average |
| 2 | 8093.700 | 49.02 | -24.98 | 74.00 | 42.67 | 36.13 | 5.35 | 35.13 | Peak |
| 3 | 10360.000 | 52.36 | -15.84 | 68.20 | 43.52 | 37.47 | 6.38 | 35.01 | Peak |
| 4 | 15540.000 | 45.02 | -8.98 | 54.00 | 31.17 | 40.65 | 7.99 | 34.79 | Average |
| 5 | 15540.000 | 57.07 | -16.93 | 74.00 | 43.22 | 40.65 | 7.99 | 34.79 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5200 | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | |

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| | Freq | Level | Over Limit | Limit Line | Non-Hill | Antenna Factor | 1000000 | Preamp Factor | Remark |
|---|-----------|--------|---------------|---------------|----------|-------------------|---------|------------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8220.000 | 35.02 | -18.98 | 54.00 | 28.56 | 36.19 | 5.38 | 35.11 | Average |
| 2 | 8220.000 | 49.14 | -24.86 | 74.00 | 42.68 | 36.19 | 5.38 | 35.11 | Peak |
| 3 | 10400.000 | 59.33 | -8.87 | 68.20 | 50.45 | 37.50 | 6.35 | 34.97 | Peak |
| 4 | 15600.000 | 44.96 | -9.04 | 54.00 | 31.13 | 40.74 | 7.96 | 34.87 | Average |
| 5 | 15600.000 | 58.34 | -15.66 | 74.00 | 44.51 | 40.74 | 7.96 | 34.87 | Peak |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

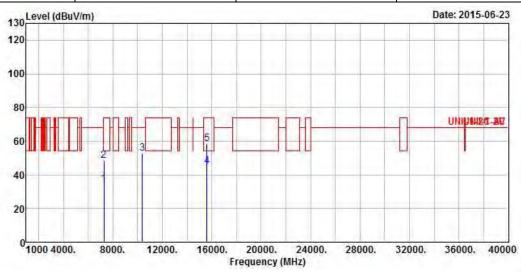
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5200 | | | | | |
| N_{TX} | 3 | Polarization | Н | | | | | |

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| | Freq | Level | | Limit Line | | | | | Remark | |
|---|-----------|--------|--------|---------------|-------|-------|------|-------|---------|-----|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | 100 |
| 1 | 7296.600 | 34.73 | -19.27 | 54.00 | 28.33 | 35.92 | 5.42 | 34.94 | Average | |
| 2 | 7296.600 | 48.55 | -25.45 | 74.00 | 42.15 | 35.92 | 5.42 | 34.94 | Peak | |
| 3 | 10400.000 | 52.63 | -15.57 | 68.20 | 43.75 | 37.50 | 6.35 | 34.97 | Peak | |
| 4 | 15600.000 | 45.09 | -8.91 | 54.00 | 31.26 | 40.74 | 7.96 | 34.87 | Average | |
| 5 | 15600.000 | 58.32 | -15.68 | 74.00 | 44.49 | 40.74 | 7.96 | 34.87 | Peak | |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

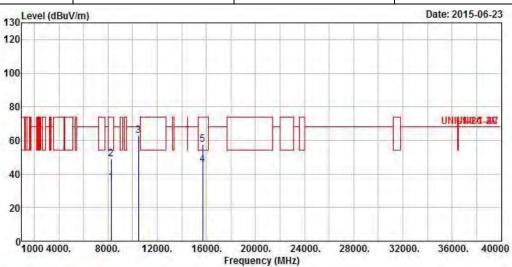
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5240 | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | |

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| | 2000 | | Over | 100 | | Antenna | | Preamp | |
|---|-----------|--------|--------|--------|-------|---------|------|--------|---------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8256.000 | 34.93 | -19.07 | 54.00 | 28.44 | 36.20 | 5.39 | 35.10 | Average |
| 2 | 8256.000 | 48.97 | -25.03 | 74.00 | 42.48 | 36.20 | 5.39 | 35.10 | Peak |
| 3 | 10480.000 | 62.61 | -5.59 | 68.20 | 53.63 | 37.58 | 6.30 | 34.90 | Peak |
| 4 | 15720.000 | 45.60 | -8.40 | 54.00 | 31.82 | 40.91 | 7.86 | 34.99 | Average |
| 5 | 15720.000 | 57.61 | -16.39 | 74.00 | 43.83 | 40.91 | 7.86 | 34.99 | Peak |
| 5 | 15720.000 | 57.61 | -16.39 | 74.00 | 43.83 | 40.91 | 7.86 | 34.99 | Peak |

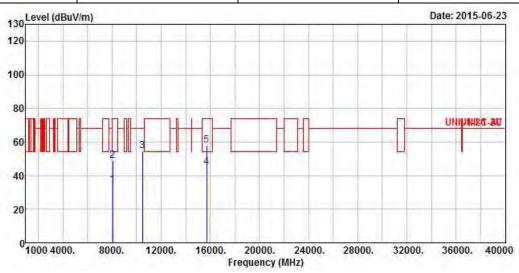
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5240 | | | | | |
| N_{TX} | 3 | Polarization | Н | | | | | |

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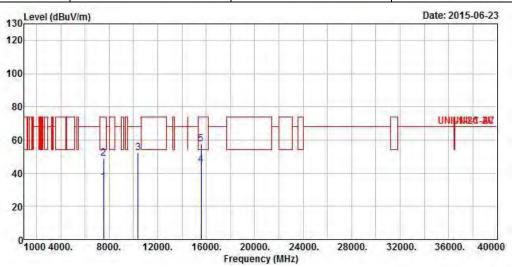
| | Freq | Level | | | | Antenna Factor | | | Remark | |
|---|-----------|--------|--------|--------|-------|-------------------|------|-------|---------|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | - |
| 1 | 8072.600 | 34.31 | -19.69 | 54.00 | 27.98 | 36.13 | 5.33 | 35.13 | Average | |
| 2 | 8072.600 | 48.82 | -25.18 | 74.00 | 42.49 | 36.13 | 5.33 | 35.13 | Peak | |
| 3 | 10480.000 | 54.56 | -13.64 | 68.20 | 45.58 | 37.58 | 6.30 | 34.90 | Peak | |
| 4 | 15720.000 | 45.15 | -8.85 | 54.00 | 31.37 | 40.91 | 7.86 | 34.99 | Average | |
| 5 | 15720.000 | 57.91 | -16.09 | 74.00 | 44.13 | 40.91 | 7.86 | 34.99 | Peak | |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT40 | Test Freq. (MHz) | 5190 | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | |

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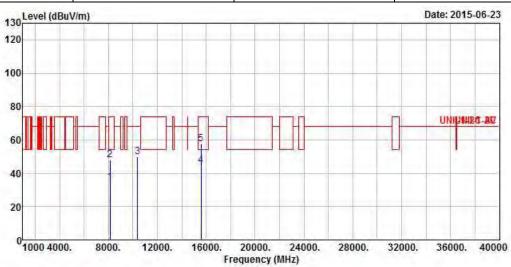
| | Freq | Level | Over Limit | | | Antenna Factor | | | Remark |
|---|-----------|--------|---------------|--------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 7544.000 | 34.49 | -19.51 | 54.00 | 27.80 | 36.01 | 5.68 | 35.00 | Average |
| 2 | 7544.000 | 48.93 | -25.07 | 74.00 | 42.24 | 36.01 | 5.68 | 35.00 | Peak |
| 3 | 10380.000 | 52.25 | -15.95 | 68.20 | 43.41 | 37.48 | 6.35 | 34.99 | Peak |
| 4 | 15570.000 | 44.91 | -9.09 | 54.00 | 31.07 | 40.70 | 7.96 | 34.82 | Average |
| 5 | 15570.000 | 57.37 | -16.63 | 74.00 | 43.53 | 40.70 | 7.96 | 34.82 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT40 | Test Freq. (MHz) | 5190 | | | | | |
| N _{TX} | 3 | Polarization | Н | | | | | |

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| | Freq | Level | Over Limit | 4-70-7 | | Antenna Factor | | Preamp Factor | Remark |
|---|-----------|--------|---------------|--------|-------|-------------------|------|------------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8130.000 | 34.74 | -19.26 | 54.00 | 28.35 | 36.15 | 5.36 | 35.12 | Average |
| 2 | 8130.000 | 47.91 | -26.09 | 74.00 | 41.52 | 36.15 | 5.36 | 35.12 | Peak |
| 3 | 10380.000 | 50.13 | -18.07 | 68.20 | 41.29 | 37.48 | 6.35 | 34.99 | Peak |
| 4 | 15570.000 | 44.72 | -9.28 | 54.00 | 30.88 | 40.70 | 7.96 | 34.82 | Average |
| 5 | 15570.000 | 57.40 | -16.60 | 74.00 | 43.56 | 40.70 | 7.96 | 34.82 | Peak |

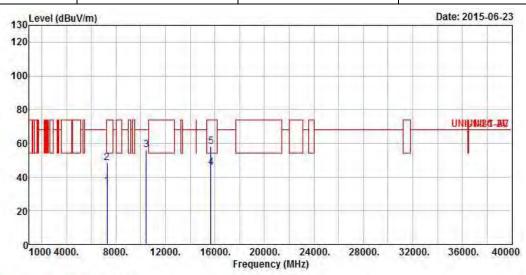
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT40 | Test Freq. (MHz) | 5230 | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | |

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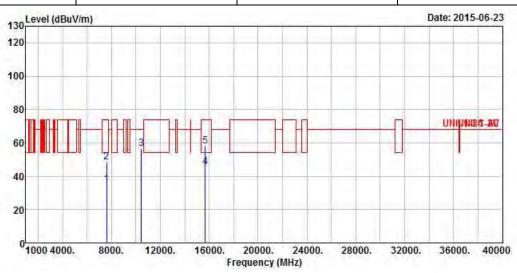


| | - | 4.75.74 | | Limit | | | | | |
|---|-----------|---------|--------|--------|-------|--------|------|--------|---------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Kemark |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 7298.000 | 34.41 | -19.59 | 54.00 | 28.01 | 35.92 | 5.42 | 34.94 | Average |
| 2 | 7298.000 | 48.41 | -25.59 | 74.00 | 42.01 | 35.92 | 5.42 | 34.94 | Peak |
| 3 | 10460.000 | 56.35 | -11.85 | 68.20 | 47.42 | 37.55 | 6.30 | 34.92 | Peak |
| 4 | 15690.000 | 45.53 | -8.47 | 54.00 | 31.76 | 40.87 | 7.86 | 34.96 | Average |
| 5 | 15690.000 | 57.94 | -16.06 | 74.00 | 44.17 | 40.87 | 7.86 | 34.96 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | |
|--|-------|------------------|------|--|--|--|--|
| Modulation Mode | VHT40 | Test Freq. (MHz) | 5230 | | | | |
| N _{TX} | 3 | Polarization | Н | | | | |



| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | | Remark |
|---|-----------|--------|---------------|---------------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 7612.000 | 35.19 | -18.81 | 54.00 | 28.57 | 36.02 | 5.61 | 35.01 | Average |
| 2 | 7612.000 | 48.28 | -25.72 | 74.00 | 41.66 | 36.02 | 5.61 | 35.01 | Peak |
| 3 | 10460.000 | 56.54 | -11.66 | 68.20 | 47.61 | 37.55 | 6.30 | 34.92 | Peak |
| 4 | 15690.000 | 45.45 | -8.55 | 54.00 | 31.68 | 40.87 | 7.86 | 34.96 | Average |
| 5 | 15690.000 | 58.15 | -15.85 | 74.00 | 44.38 | 40.87 | 7.86 | 34.96 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

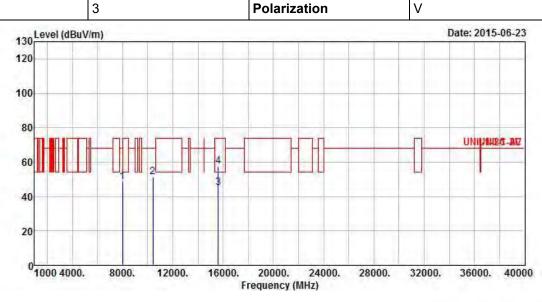
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT80 Test Freq. (MHz) 5210

N_{TX} 3 Polarization V

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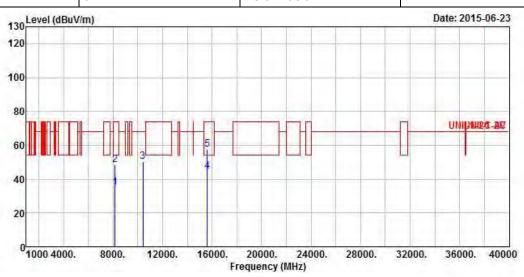


| | Freq | Level | | | | Antenna Factor | | NOT THE RESERVE | Remark | |
|---|-----------|--------|--------|--------|-------|-------------------|------|-----------------|---------|--|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | |
| 1 | 7986.000 | 48.53 | -19.67 | 68.20 | 42.25 | 36.10 | 5.31 | 35.13 | Peak | |
| 2 | 10420.000 | 51.25 | -16.95 | 68.20 | 42.37 | 37.52 | 6.33 | 34.97 | Peak | |
| 3 | 15630.000 | 44.94 | -9.06 | 54.00 | 31.13 | 40.79 | 7.92 | 34.90 | Average | |
| 4 | 15630.000 | 57.62 | -16.38 | 74.00 | 43.81 | 40.79 | 7.92 | 34.90 | Peak | |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT80 | Test Freq. (MHz) | 5210 | | | | | |
| N _{TY} | 3 | Polarization | Н | | | | | |



| | Freq | Level | | Limit Line | | | | The state of the s | |
|---|-----------|--------|--------|---------------|-------|-------|------|--|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8162.000 | 35.03 | -18.97 | 54.00 | 28.61 | 36.16 | 5.37 | 35.11 | Average |
| 2 | 8162.000 | 48.58 | -25.42 | 74.00 | 42.16 | 36.16 | 5.37 | 35.11 | Peak |
| 3 | 10420.000 | 50.21 | -17.99 | 68.20 | 41.33 | 37.52 | 6.33 | 34.97 | Peak |
| 4 | 15630.000 | 44.77 | -9.23 | 54.00 | 30.96 | 40.79 | 7.92 | 34.90 | Average |
| 5 | 15630.000 | 57.39 | -16.61 | 74.00 | 43.58 | 40.79 | 7.92 | 34.90 | Peak |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

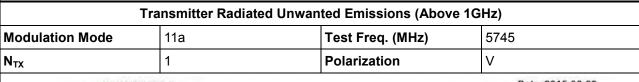
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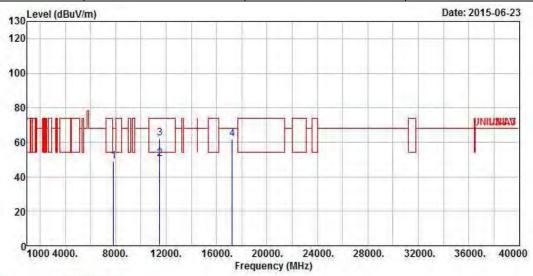
FAX: 886-3-327-0973



3.6.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5725-5850MHz

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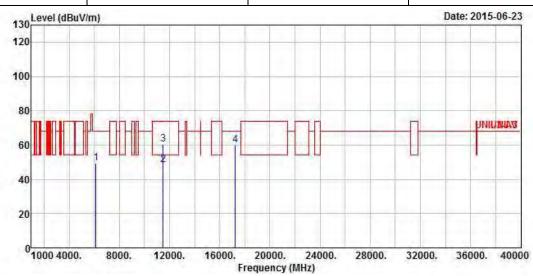
| | Freq | Level | Over Limit | | | Antenna Factor | | | |
|---|-----------|--------|---------------|--------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 7841.000 | 48.95 | -19.25 | 68.20 | 42.52 | 36.07 | 5.44 | 35.08 | Peak |
| 2 | 11490.000 | 50.25 | -3.75 | 54.00 | 40.13 | 38.20 | 6.36 | 34.44 | Average |
| 3 | 11490.000 | 62.53 | -11.47 | 74.00 | 52.41 | 38.20 | 6.36 | 34.44 | Peak |
| 4 | 17235.000 | 61.74 | -6.46 | 68.20 | 44.99 | 41.59 | 8.96 | 33.80 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Tr | Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | |
|-----------------|--|------------------|------|--|--|--|--|--|
| Modulation Mode | 11a | Test Freq. (MHz) | 5745 | | | | | |
| N _{TX} | 1 | Polarization | Н | | | | | |

Report No.: FR552736AN

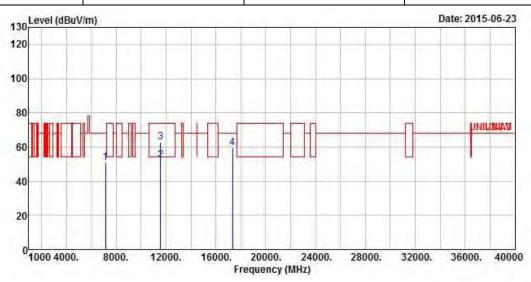


| | Freq | Level | | | | Antenna Factor | | Section of the second | Remark |
|---|-----------|--------|--------|--------|-------|-------------------|------|-----------------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 6125.000 | 49.17 | -19.03 | 68.20 | 43.12 | 35.55 | 5.22 | 34.72 | Peak |
| 2 | 11490.000 | 48.55 | -5.45 | 54.00 | 38.43 | 38.20 | 6.36 | 34.44 | Average |
| 3 | 11490.000 | 60.54 | -13.46 | 74.00 | 50.42 | 38.20 | 6.36 | 34.44 | Peak |
| 4 | 17235.000 | 60.16 | -8.04 | 68.20 | 43.41 | 41.59 | 8.96 | 33.80 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-----|------------------|------|--|--|--|--|--|
| Modulation Mode | 11a | Test Freq. (MHz) | 5785 | | | | | |
| N _{TX} | 1 | Polarization | V | | | | | |



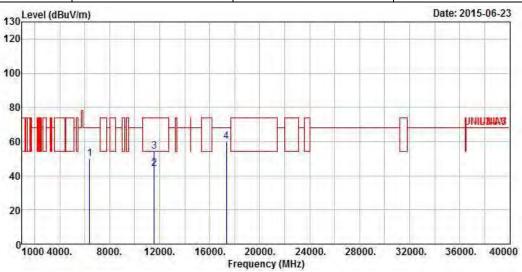
| | Freq | Level | Over Limit | - and | COMPRESSOR | Antenna Factor | la crolatol | Preamp Factor | Remark |
|---|-----------|--------|---------------|--------|------------|-------------------|-------------|------------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 7145.000 | 50.74 | -17.46 | 68.20 | 44.52 | 35.86 | 5.28 | 34.92 | Peak |
| 2 | 11570.000 | 52.32 | -1.68 | 54.00 | 42.02 | 38.37 | 6.44 | 34.51 | Average |
| 3 | 11570.000 | 62.70 | -11.30 | 74.00 | 52.40 | 38.37 | 6.44 | 34.51 | Peak |
| 4 | 17355.000 | 59.25 | -8.95 | 68.20 | 42.45 | 41.64 | 8.94 | 33.78 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Tra | Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|-----------------|--|------------------|------|--|--|--|--|--|--|
| Modulation Mode | 11a | Test Freq. (MHz) | 5785 | | | | | | |
| N_{TX} | 1 | Polarization | Н | | | | | | |

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| | Freq | Level | | | | Antenna Factor | | | Remark |
|---|-----------|--------|--------|--------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 6412.000 | 50.02 | -18.18 | 68.20 | 43.85 | 35.66 | 5.26 | 34.75 | Peak |
| 2 | 11570.000 | 44.26 | -9.74 | 54.00 | 33.96 | 38.37 | 6.44 | 34.51 | Average |
| 3 | 11570.000 | 54.32 | -19.68 | 74.00 | 44.02 | 38.37 | 6.44 | 34.51 | Peak |
| 4 | 17355.000 | 59.81 | -8.39 | 68.20 | 43.01 | 41.64 | 8.94 | 33.78 | Peak |

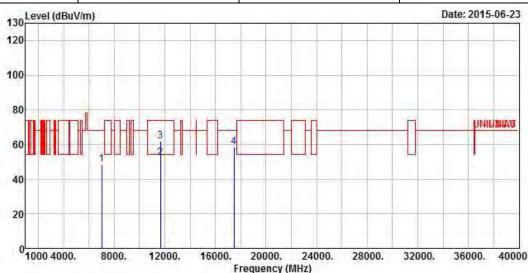
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Tra | Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|-----------------|--|------------------|------|--|--|--|--|--|--|
| Modulation Mode | 11a | Test Freq. (MHz) | 5825 | | | | | | |
| N_{TX} | 1 | Polarization | V | | | | | | |

Report No.: FR552736AN



| | Freq | Level | | | | Antenna Factor | | The state of the s | Remark |
|---|-----------|--------|--------|--------|-------|-------------------|------|--|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 7012.000 | 48.54 | -19.66 | 68.20 | 42.53 | 35.81 | 5.09 | 34.89 | Peak |
| 2 | 11650.000 | 52.48 | -1.52 | 54.00 | 41.98 | 38.53 | 6.52 | 34.55 | Average |
| 3 | 11650.000 | 62.11 | -11.89 | 74.00 | 51.61 | 38.53 | 6.52 | 34.55 | Peak |
| 4 | 17475.000 | 58.60 | -9.60 | 68.20 | 41.74 | 41.69 | 8.92 | 33.75 | Peak |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

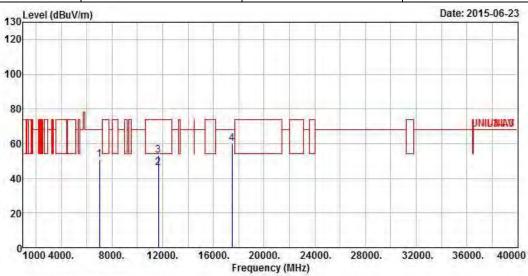
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | |
|--|-----|------------------|------|--|--|--|
| Modulation Mode | 11a | Test Freq. (MHz) | 5825 | | | |
| N_{TX} | 1 | Polarization | Н | | | |

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| | | | | | | | The state of the s | | |
|-----------|---|---|---|---|--|--|--|---|---|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | - |
| 7021.000 | 50.62 | -17.58 | 68.20 | 44.61 | 35.81 | 5.09 | 34.89 | Peak | |
| 11650.000 | 45.90 | -8.10 | 54.00 | 35.40 | 38.53 | 6.52 | 34.55 | Average | |
| 11650.000 | 53.43 | -20.57 | 74.00 | 42.93 | 38.53 | 6.52 | 34.55 | Peak | |
| 17475.000 | 60.07 | -8.13 | 68.20 | 43.21 | 41.69 | 8.92 | 33.75 | Peak | |
| | MHz 7021.000 11650.000 11650.000 | MHz dBuV/m 7021.000 50.62 11650.000 45.90 11650.000 53.43 | Freq Level Limit MHz dBuV/m dB 7021.000 50.62 -17.58 11650.000 45.90 -8.10 11650.000 53.43 -20.57 | Freq Level Limit Line MHz dBuV/m dB dBuV/m 7021.000 50.62 -17.58 68.20 11650.000 45.90 -8.10 54.00 11650.000 53.43 -20.57 74.00 | Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 7021.000 50.62 -17.58 68.20 44.61 11650.000 45.90 -8.10 54.00 35.40 11650.000 53.43 -20.57 74.00 42.93 | Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m 7021.000 50.62 -17.58 68.20 44.61 35.81 11650.000 45.90 -8.10 54.00 35.40 38.53 11650.000 53.43 -20.57 74.00 42.93 38.53 | Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 7021.000 50.62 -17.58 68.20 44.61 35.81 5.09 11650.000 45.90 -8.10 54.00 35.40 38.53 6.52 11650.000 53.43 -20.57 74.00 42.93 38.53 6.52 | MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 7021.000 50.62 -17.58 68.20 44.61 35.81 5.09 34.89 11650.000 45.90 -8.10 54.00 35.40 38.53 6.52 34.55 11650.000 53.43 -20.57 74.00 42.93 38.53 6.52 34.55 | Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 7021.000 50.62 -17.58 68.20 44.61 35.81 5.09 34.89 Peak 11650.000 45.90 -8.10 54.00 35.40 38.53 6.52 34.55 Average |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

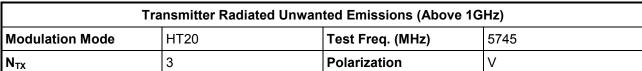
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

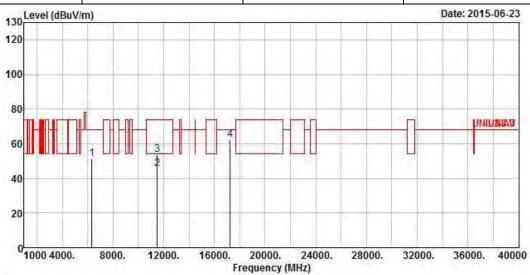
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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FAX: 886-3-327-0973

1 2 3





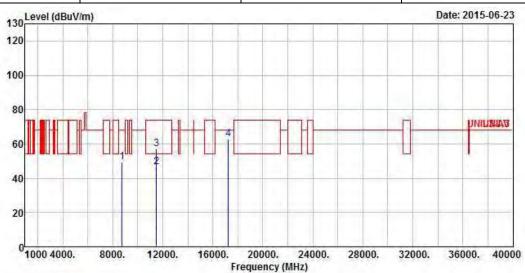
| | Freq | Level | | | | Antenna Factor | | | Remark | |
|---|-----------|--------|--------|--------|-------|-------------------|------|-------|---------|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | - |
| 1 | 6321.000 | 51.14 | -17.06 | 68.20 | 45.00 | 35.63 | 5.25 | 34.74 | Peak | |
| 2 | 11490.000 | 45.53 | -8.47 | 54.00 | 35.41 | 38.20 | 6.36 | 34.44 | Average | |
| 3 | 11490.000 | 53.86 | -20.14 | 74.00 | 43.74 | 38.20 | 6.36 | 34.44 | Peak | |
| 4 | 17235.000 | 62.53 | -5.67 | 68.20 | 45.78 | 41.59 | 8.96 | 33.80 | Peak | |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Tra | Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|-----------------|--|------------------|------|--|--|--|--|--|--|
| Modulation Mode | HT20 | Test Freq. (MHz) | 5745 | | | | | | |
| N _{TX} | 3 | Polarization | Н | | | | | | |

Report No.: FR552736AN



| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | Control of the Contro | Remark |
|---|-----------|--------|---------------|---------------|-------|-------------------|------|--|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8754.000 | 49.52 | -18.68 | 68.20 | 42.54 | 36.35 | 5.74 | 35.11 | Peak |
| 2 | 11490.000 | 46.64 | -7.36 | 54.00 | 36.52 | 38.20 | 6.36 | 34.44 | Average |
| 3 | 11490.000 | 57.24 | -16.76 | 74.00 | 47.12 | 38.20 | 6.36 | 34.44 | Peak |
| 4 | 17235.000 | 62.87 | -5.33 | 68.20 | 46.12 | 41.59 | 8.96 | 33.80 | Peak |
| | | | | | | | | | |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

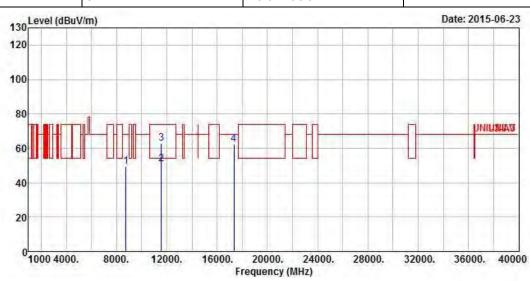
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5785

N_{TX} 3 Polarization V

Report No.: FR552736AN



| | Freq | Level | Over Limit | - and the same | | Antenna Factor | | | Remark |
|---|-----------|--------|---------------|----------------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | _ |
| 1 | 8742.000 | 49.34 | -18.86 | 68.20 | 42.36 | 36.35 | 5.74 | 35.11 | Peak |
| 2 | 11570.000 | 50.70 | -3.30 | 54.00 | 40.40 | 38.37 | 6.44 | 34.51 | Average |
| 3 | 11570.000 | 62.81 | -11.19 | 74.00 | 52.51 | 38.37 | 6.44 | 34.51 | Peak |
| 4 | 17355.000 | 62.19 | -6.01 | 68.20 | 45.39 | 41.64 | 8.94 | 33.78 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

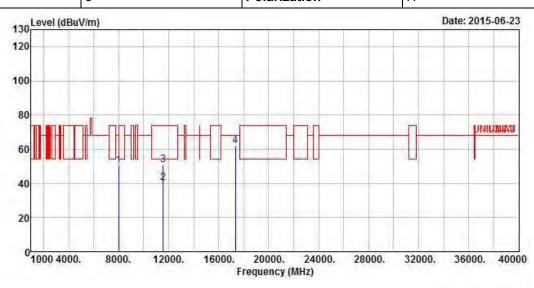
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5785

N_{TX} 3 Polarization H

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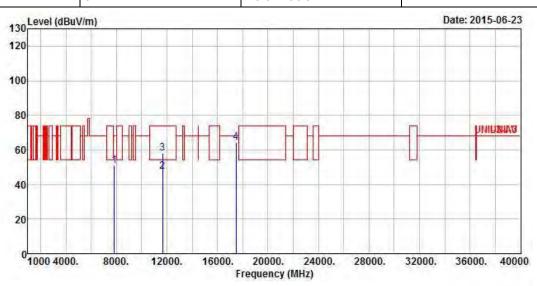


| | | Over | Limit | Read | Antenna | Cable | Preamp | |
|-----------|---|--|--|--|---|------------------------------------|--|--|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 8002.000 | 50.58 | -17.62 | 68.20 | 44.30 | 36.10 | 5.32 | 35.14 | Peak |
| 11570.000 | 40.28 | -13.72 | 54.00 | 29.98 | 38.37 | 6.44 | 34.51 | Average |
| 11570.000 | 50.79 | -23.21 | 74.00 | 40.49 | 38.37 | 6.44 | 34.51 | Peak |
| 17355.000 | 62.04 | -6.16 | 68.20 | 45.24 | 41.64 | 8.94 | 33.78 | Peak |
| | MHz 8002.000 11570.000 11570.000 | MHz dBuV/m 8002.000 50.58 11570.000 40.28 11570.000 50.79 | Freq Level Limit MHz dBuV/m dB 8002.000 50.58 -17.62 11570.000 40.28 -13.72 11570.000 50.79 -23.21 | Freq Level Limit Line MHz dBuV/m dB dBuV/m 8002.000 50.58 -17.62 68.20 11570.000 40.28 -13.72 54.00 11570.000 50.79 -23.21 74.00 | Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 8002.000 50.58 -17.62 68.20 44.30 11570.000 40.28 -13.72 54.00 29.98 11570.000 50.79 -23.21 74.00 40.49 | Freq Level Limit Line Level Factor | Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 8002.000 50.58 -17.62 68.20 44.30 36.10 5.32 11570.000 40.28 -13.72 54.00 29.98 38.37 6.44 11570.000 50.79 -23.21 74.00 40.49 38.37 6.44 | 8002.000 50.58 -17.62 68.20 44.30 36.10 5.32 35.14 11570.000 40.28 -13.72 54.00 29.98 38.37 6.44 34.51 11570.000 50.79 -23.21 74.00 40.49 38.37 6.44 34.51 |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | |
|--|------|------------------|------|--|--|--|--|
| Modulation Mode | HT20 | Test Freq. (MHz) | 5825 | | | | |
| N _{TX} | 3 | Polarization | V | | | | |



| Freq | Level | | | | Antenna Factor | | | Remark |
|-----------|--------|--------|--------|-------|-------------------|------|-------|---------|
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | _ |
| 7852.000 | 50.91 | -17.29 | 68.20 | 44.52 | 36.07 | 5.41 | 35.09 | Peak |
| 11650.000 | 47.33 | -6.67 | 54.00 | 36.83 | 38.53 | 6.52 | 34.55 | Average |
| 11650.000 | 58.01 | -15.99 | 74.00 | 47.51 | 38.53 | 6.52 | 34.55 | Peak |
| 17475.000 | 64.38 | -3.82 | 68.20 | 47.52 | 41.69 | 8.92 | 33.75 | Peak |
| | | | | | | | | |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

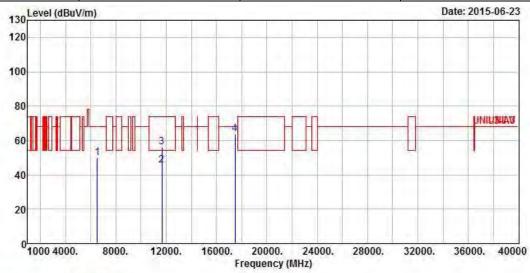
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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FAX: 886-3-327-0973

1 2 3

| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|------|------------------|------|--|--|--|--|--|
| Modulation Mode | HT20 | Test Freq. (MHz) | 5825 | | | | | |
| N _{TX} | 3 | Polarization | Н | | | | | |
| | | | | | | | | |

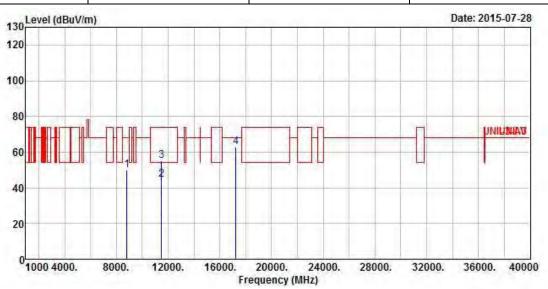


| | Freq | Level | Over Limit | | - 1,2-12, 511 | Antenna Factor | | C POSTERO D | Remark |
|---|-----------|--------|---------------|--------|---------------|-------------------|------|-------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 6523.000 | 49.73 | -18.47 | 68.20 | 43.54 | 35.70 | 5.26 | 34.77 | Peak |
| 2 | 11650.000 | 45.44 | -8.56 | 54.00 | 34.94 | 38.53 | 6.52 | 34.55 | Average |
| 3 | 11650.000 | 56.36 | -17.64 | 74.00 | 45.86 | 38.53 | 6.52 | 34.55 | Peak |
| 4 | 17475.000 | 63.88 | -4.32 | 68.20 | 47.02 | 41.69 | 8.92 | 33.75 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Tra | Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|-----------------|--|------------------|------|--|--|--|--|--|--|
| Modulation Mode | HT40 | Test Freq. (MHz) | 5755 | | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | | |



| | - | 4.700.4 | | Limit | | | | | Accessors. |
|---|-----------|---------|--------|--------|-------|--------|------|--------|------------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8831.000 | 49.92 | -18.28 | 68.20 | 42.85 | 36.37 | 5.82 | 35.12 | Peak |
| 2 | 11510.000 | 44.62 | -9.38 | 54.00 | 34.52 | 38.20 | 6.36 | 34.46 | Average |
| 3 | 11510.000 | 55.08 | -18.92 | 74.00 | 44.98 | 38.20 | 6.36 | 34.46 | Peak |
| 4 | 17265.000 | 62.90 | -5.30 | 68.20 | 46.13 | 41.61 | 8.95 | 33.79 | Peak |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

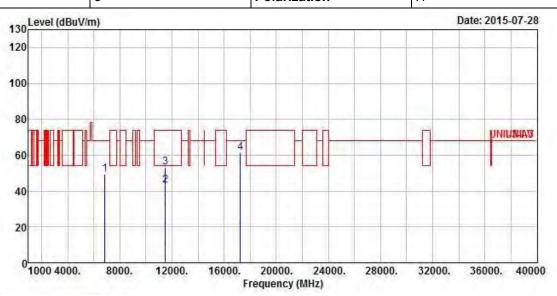
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 5755

N_{TX} 3 Polarization H

Report No.: FR552736AN



| | Freq | Level | | Limit Line | | | | | Remark |
|---|-----------|--------|--------|---------------|-------|-------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 6852.000 | 49.27 | -18.93 | 68.20 | 43.21 | 35.77 | 5.14 | 34.85 | Peak |
| 2 | 11510.000 | 43.25 | -10.75 | 54.00 | 33.15 | 38.20 | 6.36 | 34.46 | Average |
| 3 | 11510.000 | 53.31 | -20.69 | 74.00 | 43.21 | 38.20 | 6.36 | 34.46 | Peak |
| 4 | 17265.000 | 61.29 | -6.91 | 68.20 | 44.52 | 41.61 | 8.95 | 33.79 | Peak |

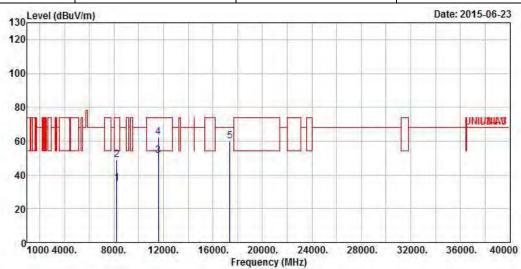
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Tra | Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|--|--------------|---|--|--|--|--|--|--|
| Modulation Mode HT40 Test Freq. (MHz) 5795 | | | | | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | | |

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| | Freq | Level | Over Limit | Limit Line | 300000 | Antenna Factor | 2.42.22 | w. s. a. a. collect | Remark | |
|---|-----------|--------|---------------|---------------|--------|-------------------|---------|---------------------|---------|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | - |
| 1 | 8225.000 | 34.92 | -19.08 | 54.00 | 28.46 | 36.19 | 5.38 | 35.11 | Average | |
| 2 | 8225.000 | 48.81 | -25.19 | 74.00 | 42.35 | 36.19 | 5.38 | 35.11 | Peak | |
| 3 | 11590.000 | 51.35 | -2.65 | 54.00 | 40.97 | 38.41 | 6.48 | 34.51 | Average | |
| 4 | 11590.000 | 62.47 | -11.53 | 74.00 | 52.09 | 38.41 | 6.48 | 34.51 | Peak | |
| 5 | 17385.000 | 60.15 | -8.05 | 68.20 | 43.33 | 41.65 | 8.93 | 33.76 | Peak | |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

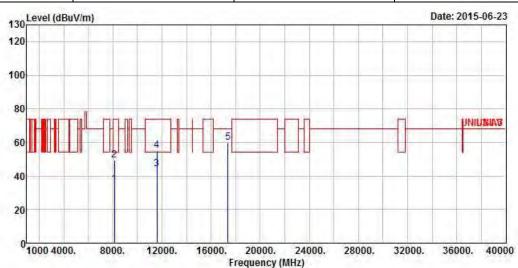
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|------|------------------|------|--|--|--|--|--|
| Modulation Mode | HT40 | Test Freq. (MHz) | 5795 | | | | | |
| N_{TX} | 3 | Polarization | Н | | | | | |

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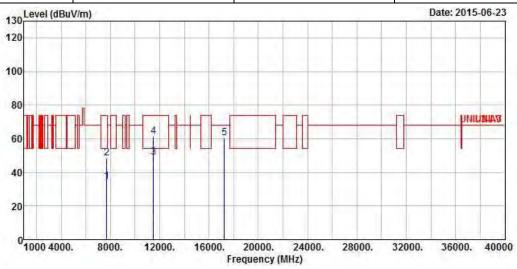


| | | | Over | Limit | Read | Antenna | Cable | Preamp | |
|---|-----------|--------|--------|--------|-------|---------|-------|--------|---------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8140.600 | 35.16 | -18.84 | 54.00 | 28.76 | 36.16 | 5.36 | 35.12 | Average |
| 2 | 8140.600 | 49.46 | -24.54 | 74.00 | 43.06 | 36.16 | 5.36 | 35.12 | Peak |
| 3 | 11590.000 | 44.36 | -9.64 | 54.00 | 33.98 | 38.41 | 6.48 | 34.51 | Average |
| 4 | 11590.000 | 55.06 | -18.94 | 74.00 | 44.68 | 38.41 | 6.48 | 34.51 | Peak |
| 5 | 17385.000 | 59.89 | -8.31 | 68.20 | 43.07 | 41.65 | 8.93 | 33.76 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5745 | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | |

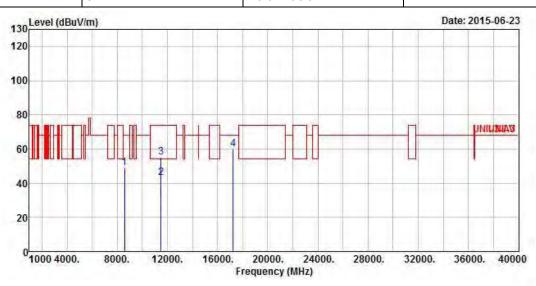


| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | | Remark |
|---|-----------|--------|---------------|---------------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 7720.000 | 34.58 | -19.42 | 54.00 | 28.05 | 36.04 | 5.54 | 35.05 | Average |
| 2 | 7720.000 | 48.69 | -25.31 | 74.00 | 42.16 | 36.04 | 5.54 | 35.05 | Peak |
| 3 | 11490.000 | 48.97 | -5.03 | 54.00 | 38.85 | 38.20 | 6.36 | 34.44 | Average |
| 4 | 11490.000 | 61.28 | -12.72 | 74.00 | 51.16 | 38.20 | 6.36 | 34.44 | Peak |
| 5 | 17235.000 | 60.28 | -7.92 | 68.20 | 43.53 | 41.59 | 8.96 | 33.80 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| | Transmitter Radia | ated Unwanted Emissions (Above | e 1GHz) |
|-----------------|-------------------|--------------------------------|---------|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5745 |
| N _{TX} | 3 | Polarization | Н |

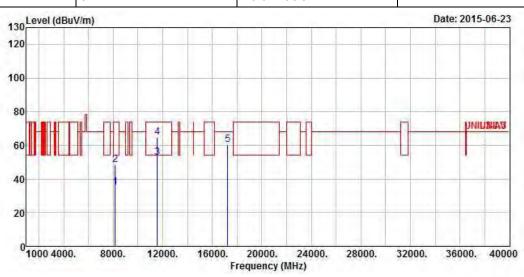


| | Freq | Level | Over Limit | | COMP. FILE | | 1500000 | Preamp Factor | Remark |
|---|-----------|--------|---------------|--------|------------|-------|---------|------------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8600.000 | 49.05 | -19.15 | 68.20 | 42.23 | 36.32 | 5.58 | 35.08 | Peak |
| 2 | 11490.000 | 43.22 | -10.78 | 54.00 | 33.10 | 38.20 | 6.36 | 34.44 | Average |
| 3 | 11490.000 | 55.11 | -18.89 | 74.00 | 44.99 | 38.20 | 6.36 | 34.44 | Peak |
| 4 | 17235.000 | 59.76 | -8.44 | 68.20 | 43.01 | 41.59 | 8.96 | 33.80 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | |
|--|-------|------------------|------|--|--|--|--|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5785 | | | | |
| N _{TY} | 3 | Polarization | V | | | | |



| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | | Remark |
|---|-----------|--------|---------------|---------------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8166.000 | 35.09 | -18.91 | 54.00 | 28.66 | 36.17 | 5.37 | 35.11 | Average |
| 2 | 8166.000 | 48.31 | -25.69 | 74.00 | 41.88 | 36.17 | 5.37 | 35.11 | Peak |
| 3 | 11570.000 | 52.98 | -1.02 | 54.00 | 42.68 | 38.37 | 6.44 | 34.51 | Average |
| 4 | 11570.000 | 64.98 | -9.02 | 74.00 | 54.68 | 38.37 | 6.44 | 34.51 | Peak |
| 5 | 17235.000 | 60.43 | -7.77 | 68.20 | 43.68 | 41.59 | 8.96 | 33.80 | Peak |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

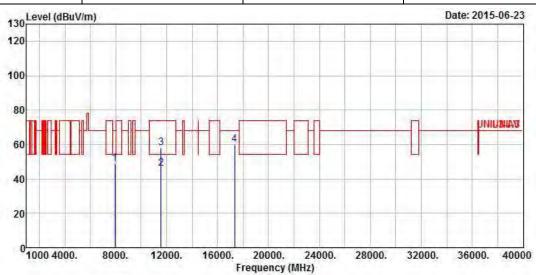
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5785 | | | | | |
| N _{TX} | 3 | Polarization | Н | | | | | |

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| | Freq | Level | | Limit Line | | | | Section of the | Remark |
|---|-----------|--------|--------|---------------|-------|-------|------|----------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 7924.000 | 49.02 | -19.18 | 68.20 | 42.72 | 36.08 | 5.34 | 35.12 | Peak |
| 2 | 11570.000 | 45.91 | -8.09 | 54.00 | 35.61 | 38.37 | 6.44 | 34.51 | Average |
| 3 | 11570.000 | 57.97 | -16.03 | 74.00 | 47.67 | 38.37 | 6.44 | 34.51 | Peak |
| 4 | 17355.000 | 59.92 | -8.28 | 68.20 | 43.12 | 41.64 | 8.94 | 33.78 | Peak |

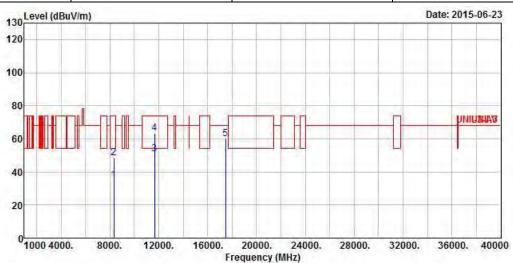
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5825 | | | | | |
| N_{TX} | 3 | Polarization | V | | | | | |

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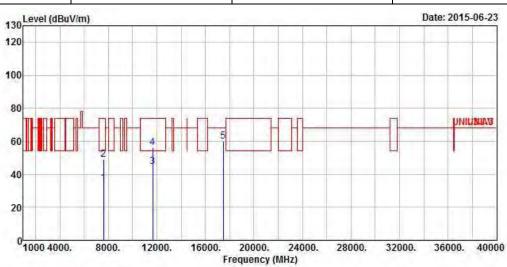
| | Freq | Level | Over Limit | | | Antenna Factor | | | Remark |
|---|-----------|--------|---------------|--------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8322.000 | 35.01 | -18.99 | 54.00 | 28.45 | 36.23 | 5.42 | 35.09 | Average |
| 2 | 8322.000 | 48.44 | -25.56 | 74.00 | 41.88 | 36.23 | 5.42 | 35.09 | Peak |
| 3 | 11650.000 | 50.78 | -3.22 | 54.00 | 40.28 | 38.53 | 6.52 | 34.55 | Average |
| 4 | 11650.000 | 63.56 | -10.44 | 74.00 | 53.06 | 38.53 | 6.52 | 34.55 | Peak |
| 5 | 17475.000 | 60.06 | -8.14 | 68.20 | 43.20 | 41.69 | 8.92 | 33.75 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT20 | Test Freq. (MHz) | 5825 | | | | | |
| N _{TX} | 3 | Polarization | Н | | | | | |

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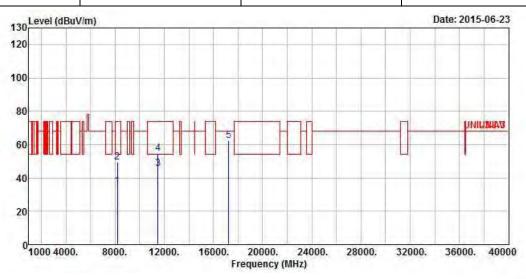


| | | | Over | Limit | ReadA | Antenna | Cable | Preamp | |
|---|-----------|--------|--------|--------|-------|---------|-------|--------|---------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 7610.000 | 34.75 | -19.25 | 54.00 | 28.10 | 36.02 | 5.64 | 35.01 | Average |
| 2 | 7610.000 | 49.07 | -24.93 | 74.00 | 42.42 | 36.02 | 5.64 | 35.01 | Peak |
| 3 | 11650.000 | 44.62 | -9.38 | 54.00 | 34.12 | 38.53 | 6.52 | 34.55 | Average |
| 4 | 11650.000 | 56.07 | -17.93 | 74.00 | 45.57 | 38.53 | 6.52 | 34.55 | Peak |
| 5 | 17475.000 | 59.86 | -8.34 | 68.20 | 43.00 | 41.69 | 8.92 | 33.75 | Peak |
| | | | | | | | | | |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| | Transmitter Radiate | d Unwanted Emissions (Above | 1GHz) |
|-----------------|---------------------|-----------------------------|-------|
| Modulation Mode | VHT40 | Test Freq. (MHz) | 5755 |
| N _{TX} | 3 | Polarization | V |



| | Freq | Level | Over Limit | | | Antenna Factor | | | Remark |
|---|-----------|--------|---------------|--------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8182.000 | 34.97 | -19.03 | 54.00 | 28.54 | 36.17 | 5.37 | 35.11 | Average |
| 2 | 8182.000 | 49.35 | -24.65 | 74.00 | 42.92 | 36.17 | 5.37 | 35.11 | Peak |
| 3 | 11510.000 | 45.73 | -8.27 | 54.00 | 35.63 | 38.20 | 6.36 | 34.46 | Average |
| 4 | 11510.000 | 54.89 | -19.11 | 74.00 | 44.79 | 38.20 | 6.36 | 34.46 | Peak |
| 5 | 17265,000 | 62.18 | -6.02 | 68.20 | 45.41 | 41.61 | 8.95 | 33.79 | Peak |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

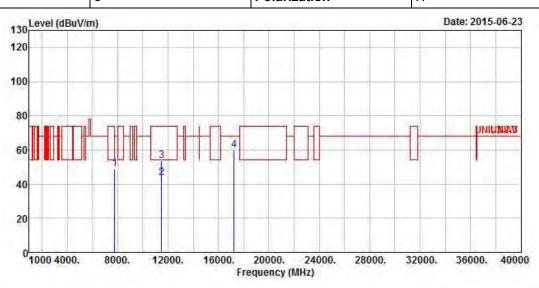
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT40 Test Freq. (MHz) 5755

N_{TX} 3 Polarization H

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| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | Preamp Factor | |
|---|-----------|--------|---------------|---------------|-------|-------------------|------|------------------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 7764.000 | 48.98 | -19.22 | 68.20 | 42.48 | 36.05 | 5.51 | 35.06 | Peak |
| 2 | 11510.000 | 43.52 | -10.48 | 54.00 | 33.42 | 38.20 | 6.36 | 34.46 | Average |
| 3 | 11510.000 | 53.62 | -20.38 | 74.00 | 43.52 | 38.20 | 6.36 | 34.46 | Peak |
| 4 | 17265.000 | 59.89 | -8.31 | 68.20 | 43.12 | 41.61 | 8.95 | 33.79 | Peak |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

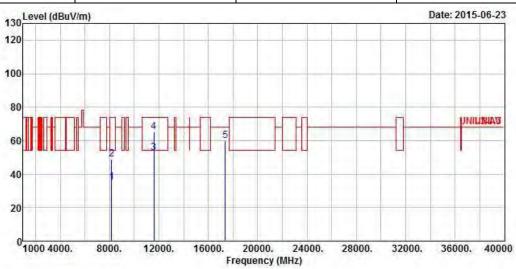
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | | |
|--|-------|------------------|------|--|--|--|--|--|
| Modulation Mode | VHT40 | Test Freq. (MHz) | 5795 | | | | | |
| N _{TX} | 3 | Polarization | V | | | | | |



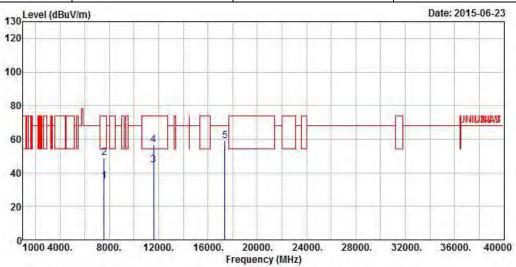
| | Freq | Level | Over Limit | | | Antenna Factor | | Preamp Factor | | |
|---|-----------|--------|---------------|--------|-------|-------------------|------|------------------|---------|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | - |
| 1 | 8160.000 | 34.87 | -19.13 | 54.00 | 28.45 | 36.16 | 5.37 | 35.11 | Average | |
| 2 | 8160.000 | 49.11 | -24.89 | 74.00 | 42.69 | 36.16 | 5.37 | 35.11 | Peak | |
| 3 | 11590.000 | 52.92 | -1.08 | 54.00 | 42.54 | 38.41 | 6.48 | 34.51 | Average | |
| 4 | 11590.000 | 65.09 | -8.91 | 74.00 | 54.71 | 38.41 | 6.48 | 34.51 | Peak | |
| 5 | 17385.000 | 59.92 | -8.28 | 68.20 | 43.10 | 41.65 | 8.93 | 33.76 | Peak | |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | | |
|--|-------|------------------|------|--|--|--|--|
| Modulation Mode | VHT40 | Test Freq. (MHz) | 5795 | | | | |
| N_{TX} | 3 | Polarization | Н | | | | |

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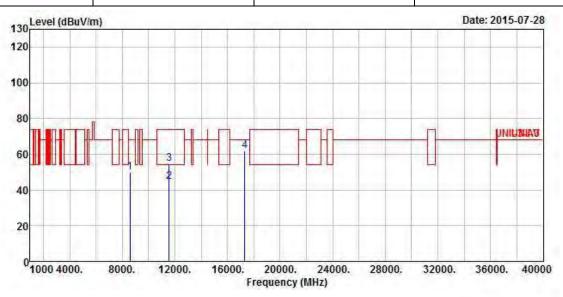


| | | | Over | Limit | Read | Antenna | Cable | Preamp | | |
|---|-----------|--------|--------|--------|-------|---------|-------|--------|---------|--|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | |
| 1 | 7588.000 | 35.10 | -18.90 | 54.00 | 28.44 | 36.02 | 5.64 | 35.00 | Average | |
| 2 | 7588.000 | 48.81 | -25.19 | 74.00 | 42.15 | 36.02 | 5.64 | 35.00 | Peak | |
| 3 | 11590.000 | 44.83 | -9.17 | 54.00 | 34.45 | 38.41 | 6.48 | 34.51 | Average | |
| 4 | 11590.000 | 56.73 | -17.27 | 74.00 | 46.35 | 38.41 | 6.48 | 34.51 | Peak | |
| 5 | 17385.000 | 59.00 | -9.20 | 68.20 | 42.18 | 41.65 | 8.93 | 33.76 | Peak | |
| | | | | | | | | | | |

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| | Transmitter Radia | ansmitter Radiated Unwanted Emissions (Above 1GI | | | | |
|-----------------|-------------------|--|------|--|--|--|
| Modulation Mode | VHT80 | Test Freq. (MHz) | 5775 | | | |
| N _{TX} | 3 | Polarization | V | | | |



| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | | Remark |
|---|-----------|--------|---------------|---------------|-------|-------------------|------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | |
| 1 | 8577.000 | 49.91 | -18.29 | 68.20 | 43.12 | 36.32 | 5.54 | 35.07 | Peak |
| 2 | 11550.000 | 44.62 | -9.38 | 54.00 | 34.35 | 38.32 | 6.44 | 34.49 | Average |
| 3 | 11550.000 | 54.79 | -19.21 | 74.00 | 44.52 | 38.32 | 6.44 | 34.49 | Peak |
| 4 | 17325.000 | 61.90 | -6.30 | 68.20 | 45.11 | 41.63 | 8.94 | 33.78 | Peak |

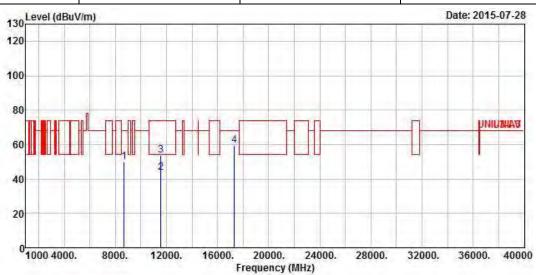
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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| Transmitter Radiated Unwanted Emissions (Above 1GHz) | | | | | | |
|--|-------|------------------|------|--|--|--|
| Modulation Mode | VHT80 | Test Freq. (MHz) | 5775 | | | |
| N _{TX} | 3 | Polarization | Н | | | |

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| Freq | Level | 4.5.2 | | | | | | | |
|-----------|---|--|--|--|---|--|--|--|---|
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | |
| 8688.000 | 49.90 | -18.30 | 68.20 | 42.99 | 36.34 | 5.66 | 35.09 | Peak | |
| 11550.000 | 43.78 | -10.22 | 54.00 | 33.51 | 38.32 | 6.44 | 34.49 | Average | |
| 11550.000 | 53.78 | -20.22 | 74.00 | 43.51 | 38.32 | 6.44 | 34.49 | Peak | |
| 17325.000 | 59.63 | -8.57 | 68.20 | 42.84 | 41.63 | 8.94 | 33.78 | Peak | |
| | MHz 8688.000 11550.000 11550.000 | MHz dBuV/m 8688.000 49.90 11550.000 43.78 11550.000 53.78 | Freq Level Limit MHz dBuV/m dB 8688.000 49.90 -18.30 11550.000 43.78 -10.22 11550.000 53.78 -20.22 | Freq Level Limit Line MHz dBuV/m dB dBuV/m 8688.000 49.90 -18.30 68.20 11550.000 43.78 -10.22 54.00 11550.000 53.78 -20.22 74.00 | Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 8688.000 49.90 -18.30 68.20 42.99 11550.000 43.78 -10.22 54.00 33.51 11550.000 53.78 -20.22 74.00 43.51 | Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m 8688.000 49.90 -18.30 68.20 42.99 36.34 11550.000 43.78 -10.22 54.00 33.51 38.32 | Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB | Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 8688.000 49.90 -18.30 68.20 42.99 36.34 5.66 35.09 11550.000 43.78 -10.22 54.00 33.51 38.32 6.44 34.49 11550.000 53.78 -20.22 74.00 43.51 38.32 6.44 34.49 | Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dB dB/m dB dB 8688.000 49.90 -18.30 68.20 42.99 36.34 5.66 35.09 Peak 11550.000 43.78 -10.22 54.00 33.51 38.32 6.44 34.49 Average 11550.000 53.78 -20.22 74.00 43.51 38.32 6.44 34.49 Peak |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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3.7 Frequency Stability

3.7.1 Frequency Stability Limit

Frequency Stability Limit UNII Devices In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual. IEEE Std. 802.11n-2009 ☐ The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

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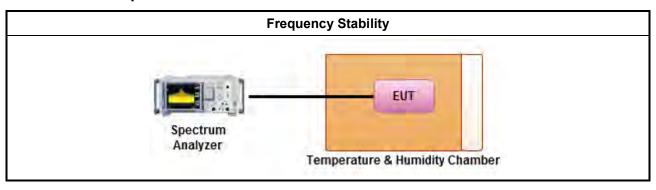
3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

| | Test Method | | | | | | | |
|-------------|--|---|--|--|--|--|--|--|
| \boxtimes | Refer as ANSI C63.10, clause 6.8 for frequency stability tests | | | | | | | |
| | □ Frequency stability with respect to ambient temperature | | | | | | | |
| | \boxtimes | Frequency stability when varying supply voltage | | | | | | |
| \boxtimes | For | conducted measurement. | | | | | | |
| | | For conducted measurements on devices with multiple transmit chains: Measurements need only to be performed on one of the active transmit chains (antenna outputs) | | | | | | |
| | | radiated measurement. The equipment to be measured and the test antenna shall be oriented to in the maximum emitted power level. | | | | | | |

3.7.4 Test Setup



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3.7.5 Test Result of Frequency Stability

| Frequency Stability Result | | | | | | | |
|----------------------------|-------------|---------------------------|----------|----------|----------|--|--|
| Мо | de | Frequency Stability (ppm) | | | | | |
| Condition | Freq. (MHz) | 0 min | 5 min | 10 min | | | |
| T _{20°C} Vmax | CW | -13.5000 | -13.5538 | -13.6212 | -13.7500 | | |
| T _{20°C} Vmin | CW | -13.9231 | -13.9692 | -14.0385 | -14.1538 | | |
| T _{50°C} Vnom | CW | -10.1019 | -9.9350 | -9.6846 | -9.2673 | | |
| T _{40°C} Vnom | CW | -11.2865 | -11.1912 | -11.0481 | -10.8096 | | |
| T _{30°C} Vnom | CW | -12.5077 | -12.4858 | -12.4531 | -12.3981 | | |
| T _{20°C} Vnom | CW | -13.6923 | -13.7423 | -13.8173 | -13.9423 | | |
| T _{10°C} Vnom | CW | -12.4423 | -12.5669 | -12.7538 | -13.0654 | | |
| T _{0°C} Vnom | CW | -11.1885 | -11.3888 | -11.6894 | -12.1904 | | |
| T _{-10°C} Vnom | CW | -10.3115 | -10.3950 | -10.5202 | -10.7288 | | |
| T _{-20°C} Vnom | CW | -9.4346 | -9.4012 | -9.3510 | -9.2673 | | |
| Limit (| ppm) | ±20 | | | | | |
| Res | ult | | Com | nplied | | | |

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Note 1: Measure at 85 % [Vmin] and 115 % [Vmax] of the nominal voltage [Vnom]. Note 2: The nominal voltage refer test report clause 1.1.5 for EUT operational condition.

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4 Test Equipment and Calibration Data

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|--------------|--------------------------------|-----------|----------------|-----------------|------------------|---------------|
| EMC Receiver | R&S | ESCS 30 | 100174 | 9kHz ~ 2.75GHz | Apr. 15. 2015 | AC Conduction |
| LISN | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8127 | 8127-477 | 9kHz ~ 30MHz | Jan. 22, 2015 | AC Conduction |
| RF Cable-CON | HUBER+SUHNER | RG213/U | 07611832020001 | 9kHz ~ 30MHz | Oct. 31, 2014 | AC Conduction |
| EMI Filter | LINDGREN | LRE-2030 | 2651 | < 450 Hz | NA | AC Conduction |

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Note: Calibration Interval of instruments listed above is one year.

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|----------------------|--------------|-----------|------------|-----------------|------------------|--------------|
| Spectrum Analyzer | R&S | FSV 40 | 101500 | 9KHz~40GHz | May 06, 2015 | RF Conducted |
| Signal Generator | R&S | SMR40 | 100116 | 10MHz ~ 40GHz | Jul. 31, 2014 | RF Conducted |
| Power Sensor | Anritsu | MA2411B | 0917017 | 300MHz ~ 40GHz | Feb. 17, 2015 | RF Conducted |
| Power Meter | Anritsu | ML2495A | 0949003 | 300MHz ~ 40GHz | Feb. 17, 2015 | RF Conducted |

Note: Calibration Interval of instruments listed above is one year.

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|--------------------------------|-------------------------|-------------|-------------|--------------------|------------------|-----------|
| Spectrum Analyzer | R&S | FSP40 | 100593 | 9kHz ~ 40GHz | Oct. 02, 2014 | Radiation |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH02-HY | 30MHz ~ 1GHz 3m | May 03, 2015 | Radiation |
| Amplifier | Agilent | 8447D | 2944A11149 | 100kHz ~ 1.3GHz | Jul. 22, 2014 | Radiation |
| Amplifier | Agilent | 8449B | 3008A02373 | 1GHz ~ 26.5GHz | Aug. 28, 2014 | Radiation |
| Horn Antenna | ETS-LINDGREN | 3117 | 00091920 | 1GHz ~ 18GHz | Nov. 28, 2014 | Radiation |
| Horn Antenna | SCHWARZBECK | BBHA9170 | BBHA9170614 | 18GHz ~ 40GHz | Dec. 29, 2014 | Radiation |
| RF Cable-R03m | Jye Bao | RG142 | CB021 | 9kHz ~ 1GHz | Nov. 08, 2014 | Radiation |
| RF Cable-high | SUHNER | SUCOFLEX106 | MY17173/4 | 1GHz ~ 40GHz | Mar. 04, 2015 | Radiation |
| Bilog Antenna | SCHAFFNER | CBL61128 | 2723 | 30MHz ~ 2GHz | Sep. 20, 2014 | Radiation |
| Turn Table | Chaintek Instruments | 3000 | MF7802058 | 0~ 360 degree | N/A | Radiation |
| Antenna Mast | MF | MF7802 | MF780208205 | 1 ~ 4 m | N/A | Radiation |

Note: Calibration Interval of instruments listed above is one year.

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|--------------|--------------------|------------|------------|-----------------|------------------|-----------|
| Amplifier | EMC INSTRUMENTS | EMC184045B | 980192 | 18GHz ~ 40GHz | Aug. 25.2014 | Radiation |
| Loop Antenna | TESEQ | HLA 6120 | 31244 | 9 kHz~30 MHz | Feb. 02, 2015 | Radiation |

Note: Calibration Interval of instruments listed above is two years.

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