

FCC Test Report

FCC ID : I88WAC6303D-S
Equipment : 802.11ac Wave 2 Dual-Radio Unified Pro
Access Point
Model No. : WAC6303D-S
Multiple Listing : Refer to item 1.1.1 for more details
Brand Name : ZYXEL
Applicant : Zyxel Communications Corporation
Address : No.2 Industry East RD. IX, Hsinchu Science
Park, Hsinchu 30075, Taiwan, R.O.C.
Standard : 47 CFR FCC Part 15.247
Received Date : Jun. 22, 2017
Tested Date : Sep. 13 ~ Oct. 12, 2017

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:


Gary Chang / Manager



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Release Record

| Report No. | Version | Description | Issued Date |
|------------|---------|---------------|---------------|
| FR762203AC | Rev. 01 | Initial issue | Nov. 13, 2017 |

Summary of Test Results

| FCC Rules | Test Items | Measured | Result |
|---------------------|------------------------|---|--------|
| 15.207 | Conducted Emissions | [dBuV]: 0.561MHz 38.71 (Margin -7.29dB) - AV | Pass |
| 15.247(d) 15.209 | Radiated Emissions | [dBuV/m at 3m]: 2483.50MHz 53.85 (Margin -0.15dB) - AV | Pass |
| 15.247(b)(3) | Maximum Output Power | Refer to FR762202AC | Pass |
| 15.247(a)(2) | 6dB Bandwidth | Refer to FR762202AC | Pass |
| 15.247(e) | Power Spectral Density | Refer to FR762202AC | Pass |
| 15.203 | Antenna Requirement | Meet the requirement of limit | Pass |

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

| Brand Name | Model Name | Product Name |
|--|----------------|--|
| ZYXEL | WAC6303D-S | 802.11ac Wave 2 Dual-Radio Unified Pro Access Point |
| | NWA1123-AC SHD | 802.11ac Wave 2 Dual-Radio Nebula Cloud Managed Access Point |
| <p>✦ All models are electrically identical, different model names are for marketing purpose.</p> <p>✦ The above models, model WAC6303D-S was selected as a representative one for the final test and only its data was recorded in this report.</p> | | |

1.1.2 Specification of the Equipment under Test (EUT)

| RF General Information | | | | | |
|---|------------------|-----------------|----------------|------------------------------------|-----------------|
| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Freq. (MHz) | Channel Number | Transmit Chains (N _{TX}) | Data Rate / MCS |
| 2400-2483.5 | b | 2412-2462 | 1-11 [11] | 2 | 1-11 Mbps |
| 2400-2483.5 | g | 2412-2462 | 1-11 [11] | 2 | 6-54 Mbps |
| 2400-2483.5 | n (HT20) | 2412-2462 | 1-11 [11] | 2 | MCS 0-15 |
| 2400-2483.5 | n (HT40) | 2422-2452 | 3-9 [7] | 2 | MCS 0-15 |
| <p>SW Version: V5.10(ABGL.0)b4</p> <p>Note 1: RF output power specifies that Maximum Peak Conducted Output Power.</p> <p>Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.</p> <p>Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation..</p> <p>Note 4: 802.11n supports beamforming function.</p> | | | | | |

1.1.3 Antenna Details

| Model | Type | Connector | Operating Frequencies (MHz) / Antenna Gain (dBi) | | |
|-------|-----------|-----------|--|-----------|-----------|
| | | | 2400~2483.5 | 5150~5250 | 5725~5850 |
| AD32 | Direction | UFL | 1.12 | --- | --- |
| AD32 | Direction | UFL | --- | 1.29 | 1.07 |

1.1.4 Power Supply Type of Equipment under Test (EUT)

| Power Supply Type | <p>From AC adapter: 12Vdc</p> <p>From PoE: 54Vdc</p> |
|-------------------|--|
|-------------------|--|

1.1.5 Accessories

N/A

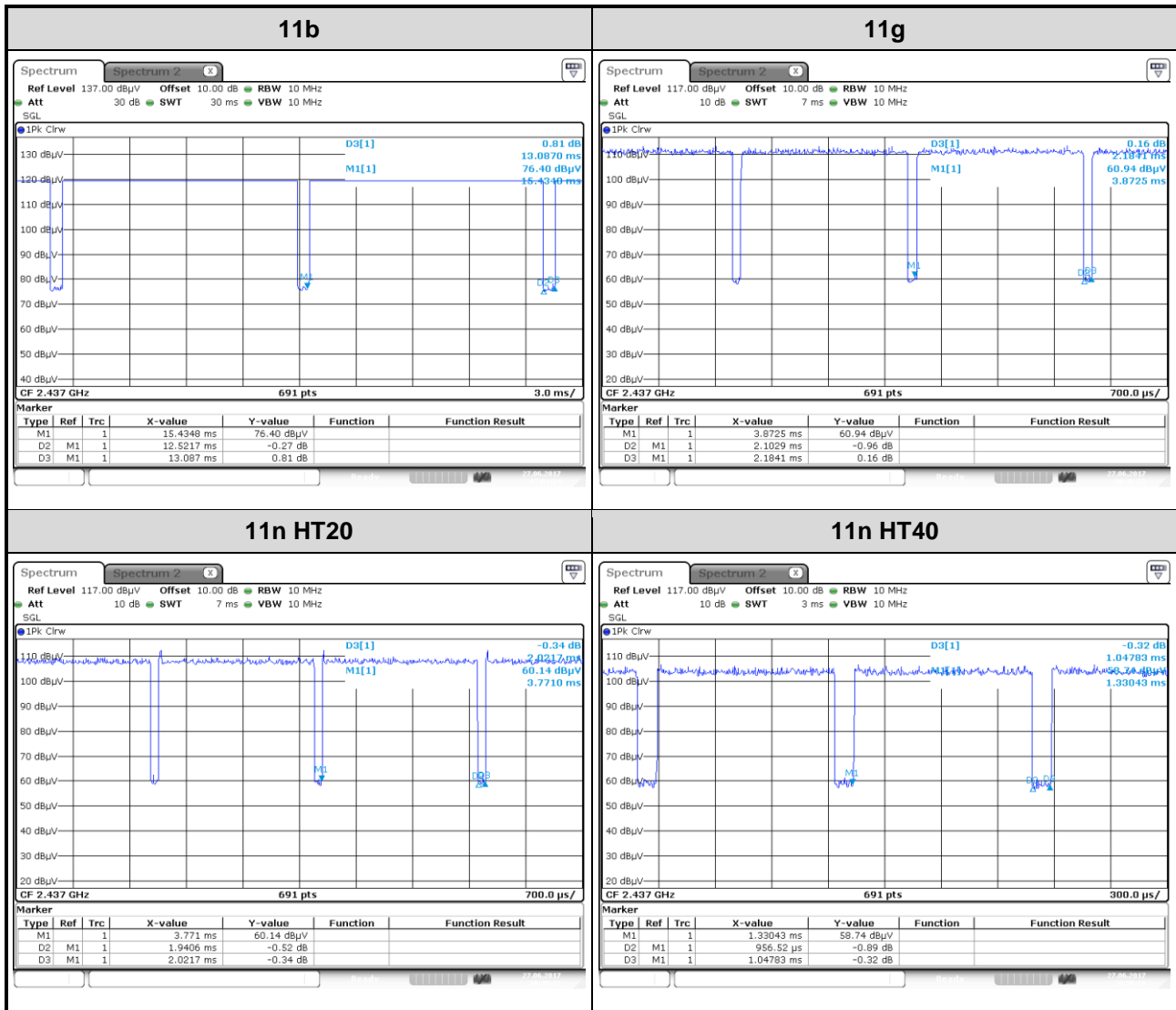
1.1.6 Channel List

| Frequency band (MHz) | | 2400~2483.5 | |
|-----------------------|----------------|--------------|----------------|
| 802.11 b / g / n HT20 | | 802.11n HT40 | |
| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
| 1 | 2412 | 3 | 2422 |
| 2 | 2417 | 4 | 2427 |
| 3 | 2422 | 5 | 2432 |
| 4 | 2427 | 6 | 2437 |
| 5 | 2432 | 7 | 2442 |
| 6 | 2437 | 8 | 2447 |
| 7 | 2442 | 9 | 2452 |
| 8 | 2447 | --- | --- |
| 9 | 2452 | --- | --- |
| 10 | 2457 | --- | --- |
| 11 | 2462 | --- | --- |

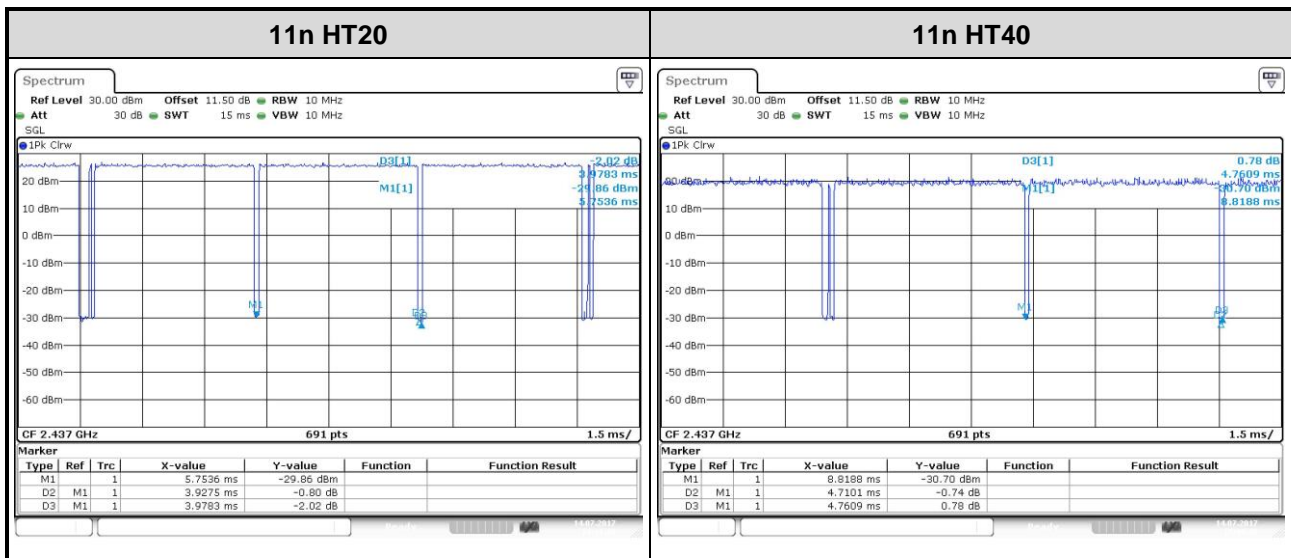
1.1.7 Test Tool and Duty Cycle

| Test Tool | putty, V0.6 | | | | |
|----------------------------|-------------|-----------------|------------------|----------------|------------------|
| Duty Cycle and Duty Factor | Mode | Non-beamforming | | Beamforming | |
| | | Duty cycle (%) | Duty factor (dB) | Duty cycle (%) | Duty factor (dB) |
| | 11b | 95.68% | 0.19 | --- | --- |
| | 11g | 96.28% | 0.16 | --- | --- |
| | HT20 | 95.99% | 0.18 | 98.72% | 0.06 |
| | HT40 | 91.29% | 0.40 | 98.93% | 0.05 |

Non-beamforming mode



Beamforming mode



1.2 Local Support Equipment List

Non-beamforming mode

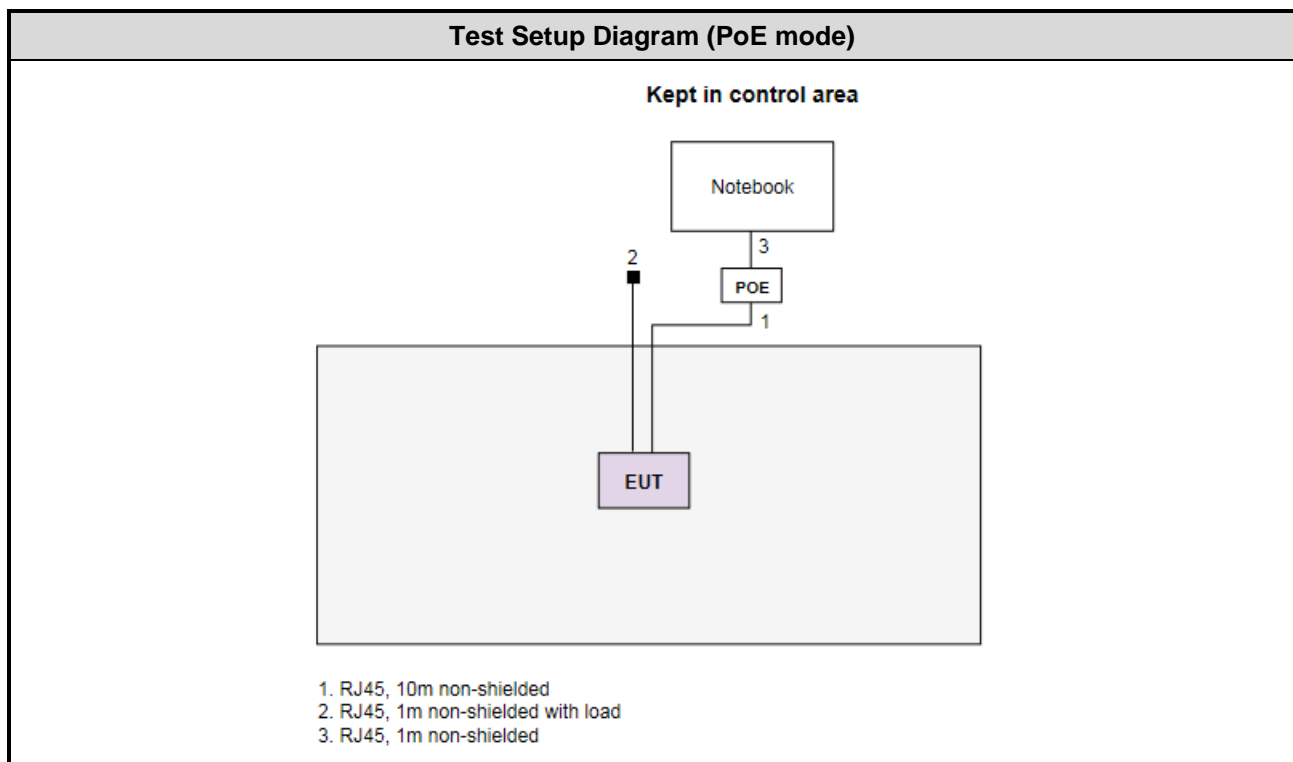
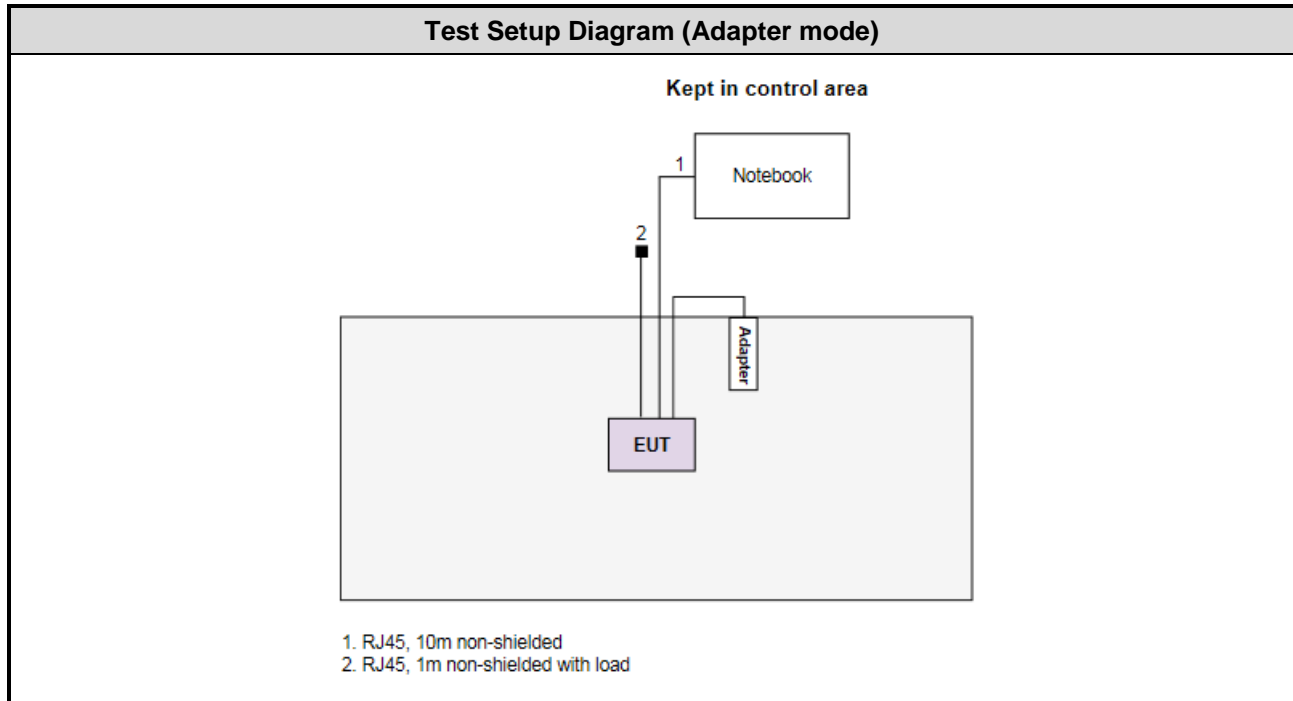
| Support Equipment List | | | | | |
|------------------------|-----------|-------|----------------|---------|---------------------------|
| No. | Equipment | Brand | Model | S/N | Signal cable / Length (m) |
| 1 | Notebook | DELL | Latitude E6430 | 9ZFB4X1 | RJ45, 10m non-shielded. |
| 2 | POE | ZYXEL | GS1900-8HP | --- | --- |
| 3 | Adapter | APD | WA-24Q12R | --- | --- |

Beamforming mode

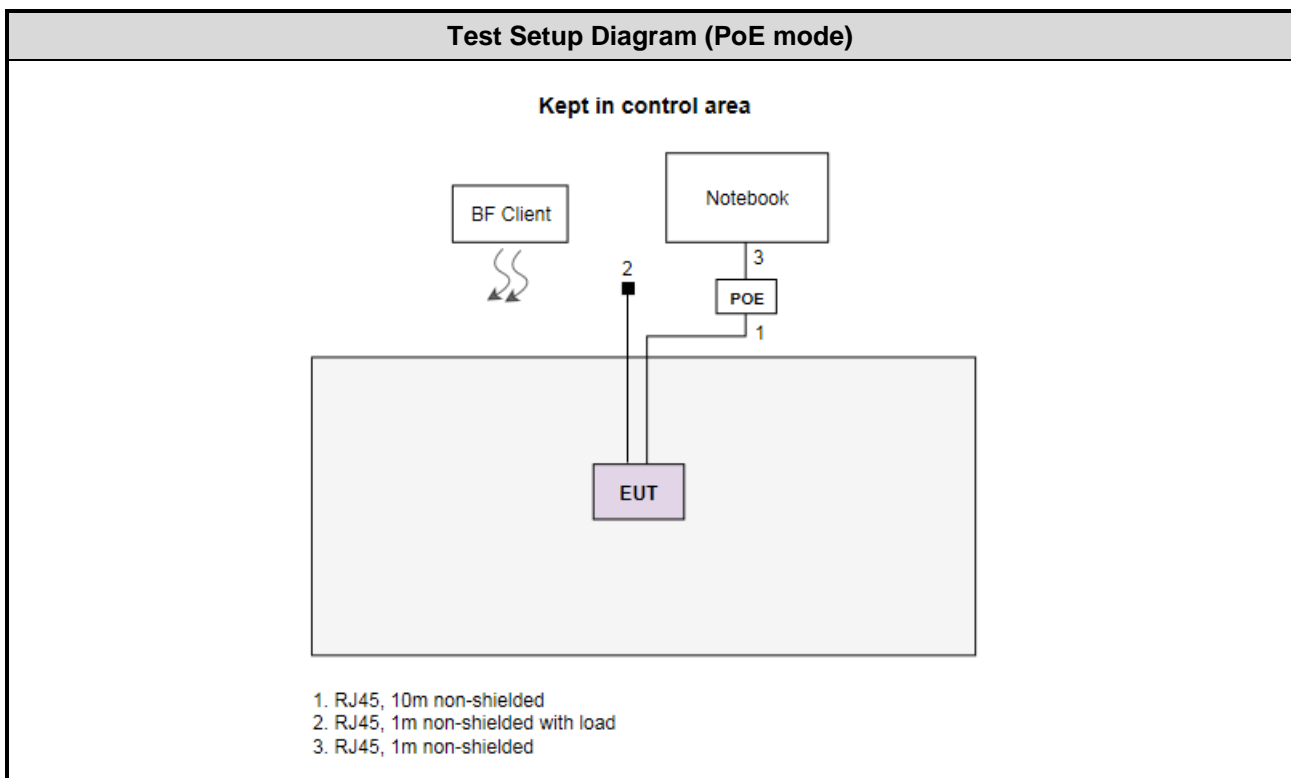
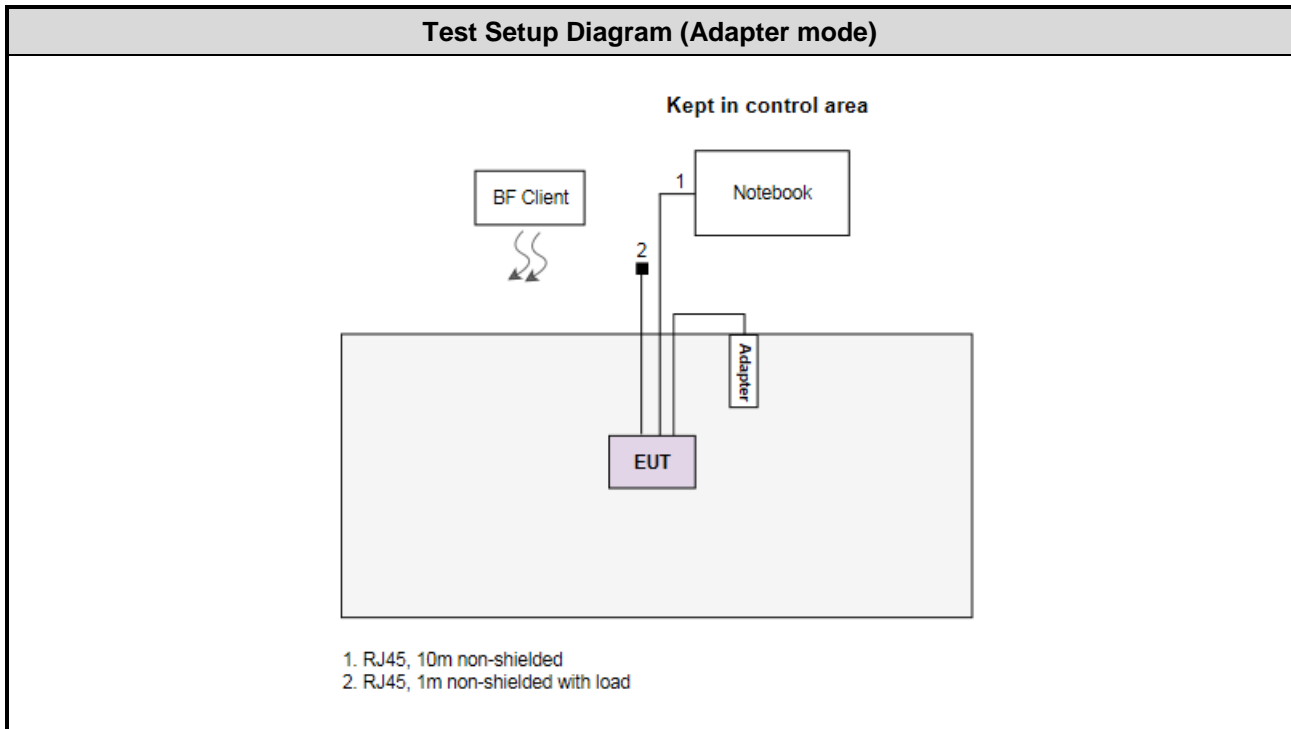
| Support Equipment List | | | | | |
|------------------------|-----------|-------|----------------|---------|---------------------------|
| No. | Equipment | Brand | Model | S/N | Signal cable / Length (m) |
| 1 | Notebook | DELL | Latitude E6430 | 9ZFB4X1 | RJ45, 10m non-shielded. |
| 2 | Client | ASUS | PCE-AC68 | --- | --- |
| 3 | POE | ZYXEL | GS1900-8HP | --- | --- |
| 4 | Adapter | APD | WA-24Q12R | --- | --- |

1.3 Test Setup Chart

Non-beamforming mode



Beamforming mode



1.4 The Equipment List

| | | | | | |
|---|-------------------------------|----------------------|-------------------|-------------------------|--------------------------|
| Test Item | Conducted Emission | | | | |
| Test Site | Conduction room 1 / (CO01-WS) | | | | |
| Tested Date | Oct. 06, 2017 | | | | |
| Instrument | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Until |
| Receiver | R&S | ESR3 | 101657 | Dec. 21, 2016 | Dec. 20, 2017 |
| LISN | R&S | ENV216 | 101579 | Jan. 19, 2017 | Jan. 18, 2018 |
| RF Cable-CON | EMC | EMCCFD300-BM-BM-6000 | 50821 | Dec. 20, 2016 | Dec. 19, 2017 |
| Measurement Software | AUDIX | e3 | 6.120210k | NA | NA |
| Note: Calibration Interval of instruments listed above is one year. | | | | | |

| | | | | | |
|---|-----------------------------|-------------------|---------------------|-------------------------|--------------------------|
| Test Item | Radiated Emission | | | | |
| Test Site | 966 chamber 3 / (03CH03-WS) | | | | |
| Tested Date | Sep. 13, 2017 | | | | |
| Instrument | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Until |
| Spectrum Analyzer | ROHDE&SCHWARZ | FSV40 | 101486 | Nov. 15, 2016 | Nov. 14, 2017 |
| Receiver | Agilent | N9038A | MY53290044 | Oct. 06, 2016 | Oct. 05, 2017 |
| Bilog Antenna | SCHWARZBECK | VULB9168 | VULB9168-685 | Apr. 28, 2017 | Apr. 27, 2018 |
| Horn Antenna 1G-18G | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D 1206 | Feb. 09, 2017 | Feb. 08, 2018 |
| Horn Antenna 18G-40G | SCHWARZBECK | BBHA 9170 | BBHA 9170517 | Oct. 25, 2016 | Oct. 24, 2017 |
| Loop Antenna | R&S | HFH2-Z2 | 100330 | Nov. 10, 2016 | Nov. 09, 2017 |
| Loop Antenna Cable | KOAX KABEL | 101354-BW | 101354-BW | Dec. 09, 2016 | Dec. 08, 2017 |
| Preamplifier | EMC | EMC02325 | 980187 | Sep. 04, 2017 | Sep. 03, 2018 |
| Preamplifier | Agilent | 83017A | MY53270014 | Aug. 21, 2017 | Aug. 20, 2018 |
| Preamplifier | EMC | EMC184045B | 980192 | Aug. 22, 2017 | Aug. 21, 2018 |
| RF cable-3M | HUBER+SUHNER | SUCOFLEX104 | MY22620/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| RF cable-8M | HUBER+SUHNER | SUCOFLEX104 | MY22600/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| RF cable-1M | HUBER+SUHNER | SUCOFLEX104 | MY22624/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-0.8M | EMC | EMC8D-NM-NM-800 | EMC8D-NM-NM-800-001 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-3M | EMC | EMC8D-NM-NM-3000 | 131103 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-13M | EMC | EMC8D-NM-NM-13000 | 131104 | Feb. 04, 2017 | Feb. 03, 2018 |
| Measurement Software | AUDIX | e3 | 6.120210g | NA | NA |
| Note: Calibration Interval of instruments listed above is one year. | | | | | |

| | | | | | |
|---|-----------------------------|-------------------|---------------------|-------------------------|--------------------------|
| Test Item | Radiated Emission | | | | |
| Test Site | 966 chamber 3 / (03CH03-WS) | | | | |
| Tested Date | Oct. 12, 2017 | | | | |
| Instrument | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Until |
| Spectrum Analyzer | ROHDE&SCHWARZ | FSV40 | 101486 | Nov. 15, 2016 | Nov. 14, 2017 |
| Receiver | Agilent | N9038A | MY53290044 | Sep. 26, 2017 | Sep. 25, 2018 |
| Bilog Antenna | SCHWARZBECK | VULB9168 | VULB9168-685 | Apr. 28, 2017 | Apr. 27, 2018 |
| Horn Antenna 1G-18G | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D 1206 | Feb. 09, 2017 | Feb. 08, 2018 |
| Horn Antenna 18G-40G | SCHWARZBECK | BBHA 9170 | BBHA 9170517 | Oct. 25, 2016 | Oct. 24, 2017 |
| Loop Antenna | R&S | HFH2-Z2 | 100330 | Nov. 10, 2016 | Nov. 09, 2017 |
| Loop Antenna Cable | KOAX KABEL | 101354-BW | 101354-BW | Dec. 09, 2016 | Dec. 08, 2017 |
| Preamplifier | EMC | EMC02325 | 980187 | Sep. 04, 2017 | Sep. 03, 2018 |
| Preamplifier | Agilent | 83017A | MY53270014 | Aug. 21, 2017 | Aug. 20, 2018 |
| Preamplifier | EMC | EMC184045B | 980192 | Aug. 22, 2017 | Aug. 21, 2018 |
| RF cable-3M | HUBER+SUHNER | SUCOFLEX104 | MY22620/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| RF cable-8M | HUBER+SUHNER | SUCOFLEX104 | MY22600/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| RF cable-1M | HUBER+SUHNER | SUCOFLEX104 | MY22624/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-0.8M | EMC | EMC8D-NM-NM-800 | EMC8D-NM-NM-800-001 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-3M | EMC | EMC8D-NM-NM-3000 | 131103 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-13M | EMC | EMC8D-NM-NM-13000 | 131104 | Feb. 04, 2017 | Feb. 03, 2018 |
| Measurement Software | AUDIX | e3 | 6.120210g | NA | NA |
| Note: Calibration Interval of instruments listed above is one year. | | | | | |

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2013

FCC KDB 558074 D01 DTS Meas Guidance v04

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

1.6 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))

| Measurement Uncertainty | |
|--------------------------------|-----------------|
| Parameters | Uncertainty |
| Bandwidth | ± 34.134 Hz |
| Conducted power | ± 0.808 dB |
| Power density | ± 0.463 dB |
| Conducted emission | ± 2.670 dB |
| AC conducted emission | ± 2.90 dB |
| Radiated emission ≤ 1 GHz | ± 3.66 dB |
| Radiated emission > 1 GHz | ± 5.37 dB |

2 Test Configuration

2.1 Testing Condition

| Test Item | Test Site | Ambient Condition | Tested By |
|--------------------|-----------|-------------------|-----------------------|
| AC Conduction | CO01-WS | 23°C / 59% | Alex Tsai |
| Radiated Emissions | 03CH03-WS | 24-25°C / 64-66% | Aska Huang Brad Wu |

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- IC site registration No.: 10807C-1

2.2 The Worst Test Modes and Channel Details

| Test item | Modulation Mode | Test Frequency (MHz) | Data Rate | Test Configuration |
|---|----------------------------|--|------------------------------------|--------------------|
| Non-beamforming mode | | | | |
| Conducted Emissions | 11g | 2437 | 6 Mbps | 1, 2 |
| Radiated Emissions ≤1GHz | 11g | 2437 | 6 Mbps | 1, 2 |
| Radiated Emissions >1GHz | 11b 11g HT20 HT40 | 2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452 | 1 Mbps 6 Mbps MCS 0 MCS 0 | 1 |
| Beamforming mode | | | | |
| Conducted Emissions | HT20 | 2437 | MCS 0 | 1, 2 |
| Radiated Emissions ≤1GHz | HT20 | 2437 | MCS 0 | 1, 2 |
| Radiated Emissions >1GHz | HT20 HT40 | 2412 / 2437 / 2462 2422 / 2437 / 2452 | MCS 0 MCS 0 | 1 |
| NOTE: <ol style="list-style-type: none"> The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report. This device can be powered by AC adapter or POE. Each power supply was selected for final testing as below configuration. <ol style="list-style-type: none"> Test configuration 1: POE mode Test configuration 2: Adapter mode | | | | |

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

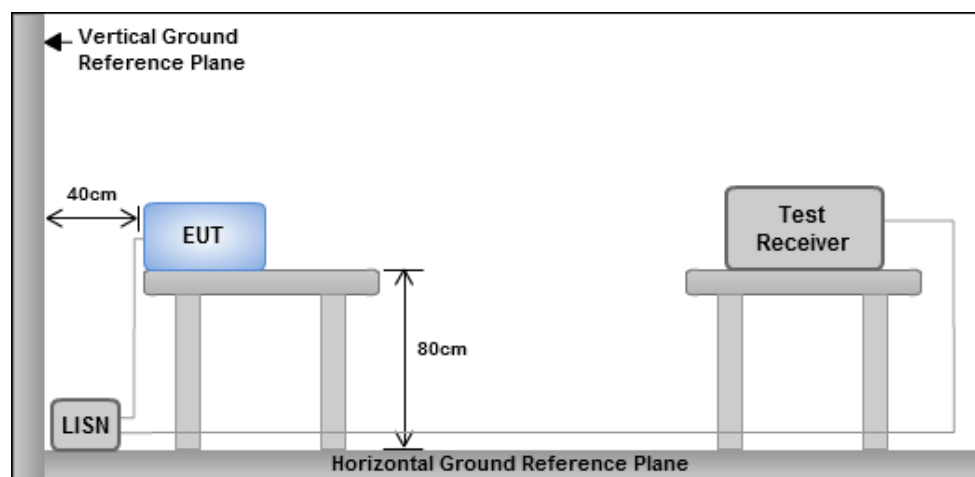
| Conducted Emissions Limit | | |
|---------------------------|------------|-----------|
| Frequency Emission (MHz) | Quasi-Peak | Average |
| 0.15-0.5 | 66 - 56 * | 56 - 46 * |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.1.3 Test Setup

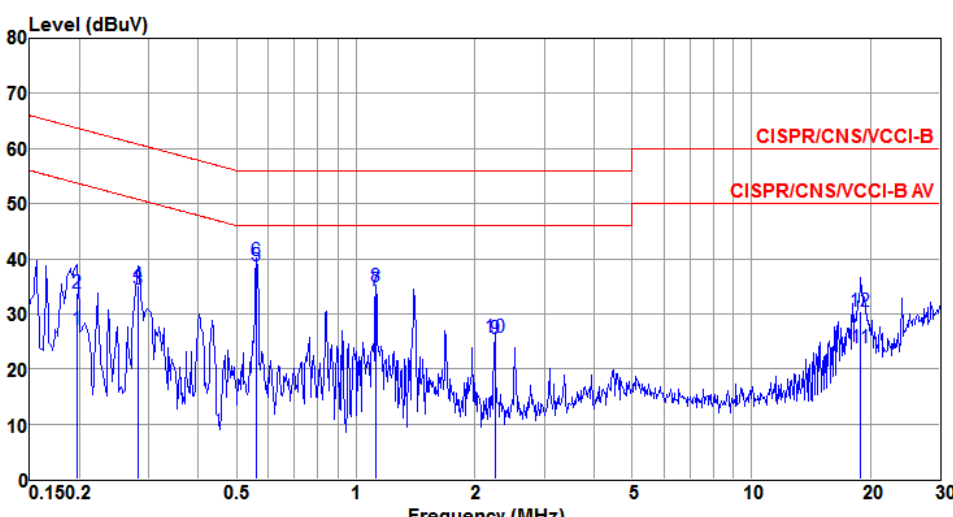


- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Non-beamforming mode

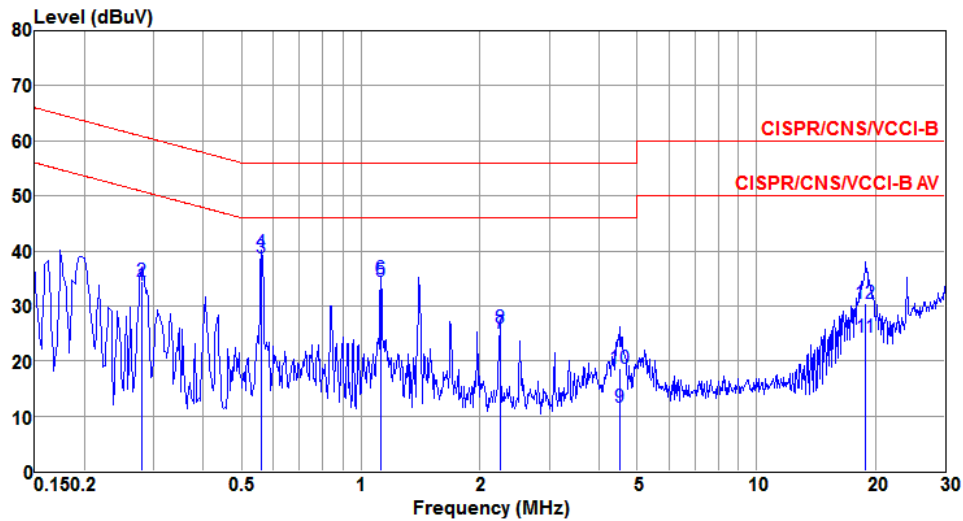
| | | | |
|-------------|------|--------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2437 |
| Power Phase | Line | Test configuration | 1 |



| | Freq MHz | Level dBUV | Limit Line dBUV | Over Limit dB | Read Level dBUV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.198 | 27.18 | 53.71 | -26.53 | 17.64 | 9.50 | 0.04 | Average |
| 2 | 0.198 | 33.70 | 63.71 | -30.01 | 24.16 | 9.50 | 0.04 | QP |
| 3 | 0.282 | 34.42 | 50.76 | -16.34 | 24.83 | 9.55 | 0.04 | Average |
| 4 | 0.282 | 35.09 | 60.76 | -25.67 | 25.50 | 9.55 | 0.04 | QP |
| 5@ | 0.562 | 38.68 | 46.00 | -7.32 | 29.09 | 9.55 | 0.04 | Average |
| 6 | 0.562 | 39.57 | 56.00 | -16.43 | 29.98 | 9.55 | 0.04 | QP |
| 7 | 1.123 | 34.25 | 46.00 | -11.75 | 24.72 | 9.49 | 0.04 | Average |
| 8 | 1.123 | 34.91 | 56.00 | -21.09 | 25.38 | 9.49 | 0.04 | QP |
| 9 | 2.247 | 25.46 | 46.00 | -20.54 | 15.79 | 9.61 | 0.06 | Average |
| 10 | 2.247 | 25.62 | 56.00 | -30.38 | 15.95 | 9.61 | 0.06 | QP |
| 11 | 18.920 | 23.94 | 50.00 | -26.06 | 13.98 | 9.71 | 0.25 | Average |
| 12 | 18.920 | 30.41 | 60.00 | -29.59 | 20.45 | 9.71 | 0.25 | QP |

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

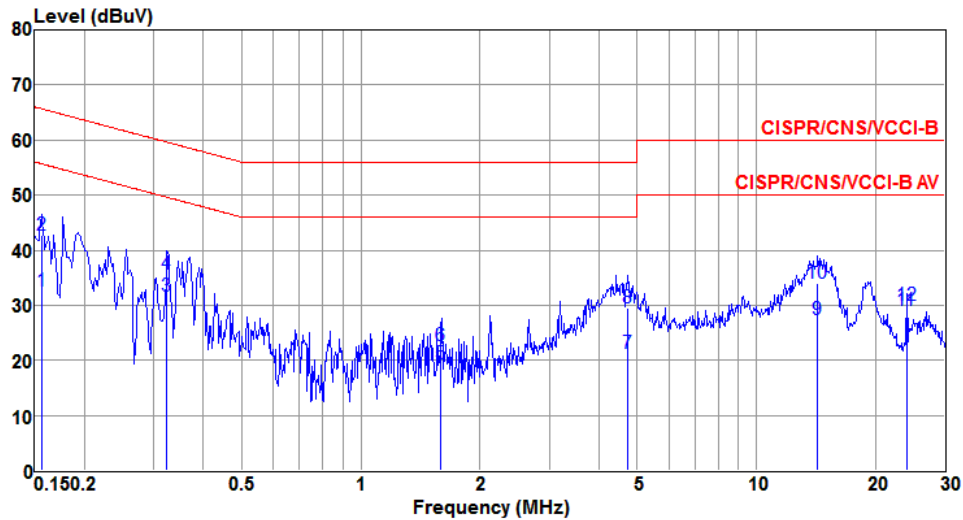
| | | | |
|-------------|---------|--------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2437 |
| Power Phase | Neutral | Test configuration | 1 |



| | Freq MHz | Level dBuV | Limit Line dBuV | Over Limit dB | Read Level dBuV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.279 | 33.77 | 50.85 | -17.08 | 24.16 | 9.57 | 0.04 | Average |
| 2 | 0.279 | 34.37 | 60.85 | -26.48 | 24.76 | 9.57 | 0.04 | QP |
| 3@ | 0.561 | 38.68 | 46.00 | -7.32 | 29.05 | 9.59 | 0.04 | Average |
| 4 | 0.561 | 39.57 | 56.00 | -16.43 | 29.94 | 9.59 | 0.04 | QP |
| 5 | 1.124 | 34.41 | 46.00 | -11.59 | 24.72 | 9.65 | 0.04 | Average |
| 6 | 1.124 | 34.98 | 56.00 | -21.02 | 25.29 | 9.65 | 0.04 | QP |
| 7 | 2.246 | 25.11 | 46.00 | -20.89 | 15.50 | 9.55 | 0.06 | Average |
| 8 | 2.246 | 26.09 | 56.00 | -29.91 | 16.48 | 9.55 | 0.06 | QP |
| 9 | 4.525 | 11.68 | 46.00 | -34.32 | 1.80 | 9.71 | 0.17 | Average |
| 10 | 4.525 | 18.63 | 56.00 | -37.37 | 8.75 | 9.71 | 0.17 | QP |
| 11 | 18.920 | 24.34 | 50.00 | -25.66 | 14.38 | 9.71 | 0.25 | Average |
| 12 | 18.920 | 30.46 | 60.00 | -29.54 | 20.50 | 9.71 | 0.25 | QP |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

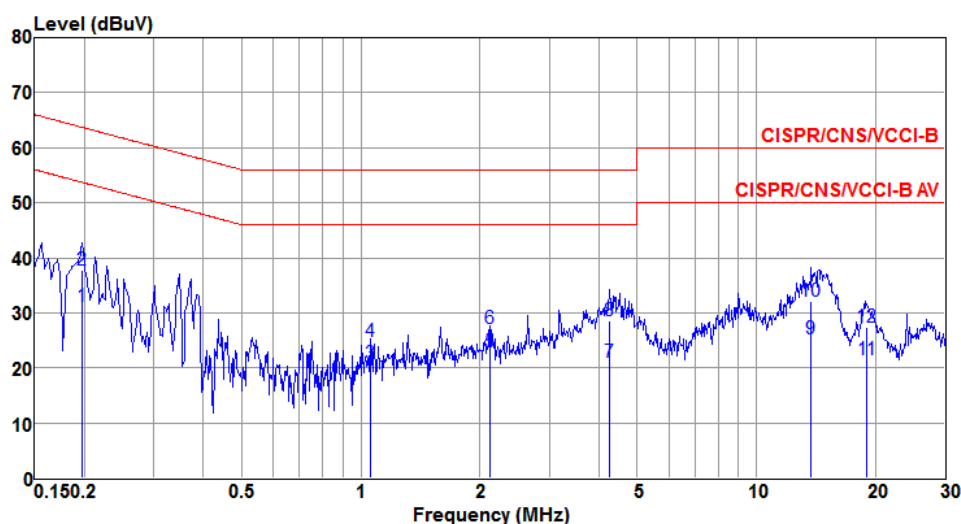
| | | | |
|-------------|------|--------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2437 |
| Power Phase | Line | Test configuration | 2 |



| | Freq MHz | Level dBuV | Limit Line dBuV | Over Limit dB | Read Level dBuV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.156 | 32.54 | 55.69 | -23.15 | 23.00 | 9.50 | 0.04 | Average |
| 2 | 0.156 | 42.65 | 65.69 | -23.04 | 33.11 | 9.50 | 0.04 | QP |
| 3@ | 0.323 | 31.73 | 49.62 | -17.89 | 22.12 | 9.57 | 0.04 | Average |
| 4 | 0.323 | 35.65 | 59.62 | -23.97 | 26.04 | 9.57 | 0.04 | QP |
| 5 | 1.591 | 19.38 | 46.00 | -26.62 | 9.76 | 9.58 | 0.04 | Average |
| 6 | 1.591 | 22.74 | 56.00 | -33.26 | 13.12 | 9.58 | 0.04 | QP |
| 7 | 4.721 | 21.14 | 46.00 | -24.86 | 11.46 | 9.51 | 0.17 | Average |
| 8 | 4.721 | 29.42 | 56.00 | -26.58 | 19.74 | 9.51 | 0.17 | QP |
| 9 | 14.288 | 27.39 | 50.00 | -22.61 | 17.47 | 9.69 | 0.23 | Average |
| 10 | 14.288 | 33.90 | 60.00 | -26.10 | 23.98 | 9.69 | 0.23 | QP |
| 11 | 24.001 | 29.01 | 50.00 | -20.99 | 19.09 | 9.64 | 0.28 | Average |
| 12 | 24.001 | 29.94 | 60.00 | -30.06 | 20.02 | 9.64 | 0.28 | QP |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

| | | | |
|-------------|---------|--------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2437 |
| Power Phase | Neutral | Test configuration | 2 |

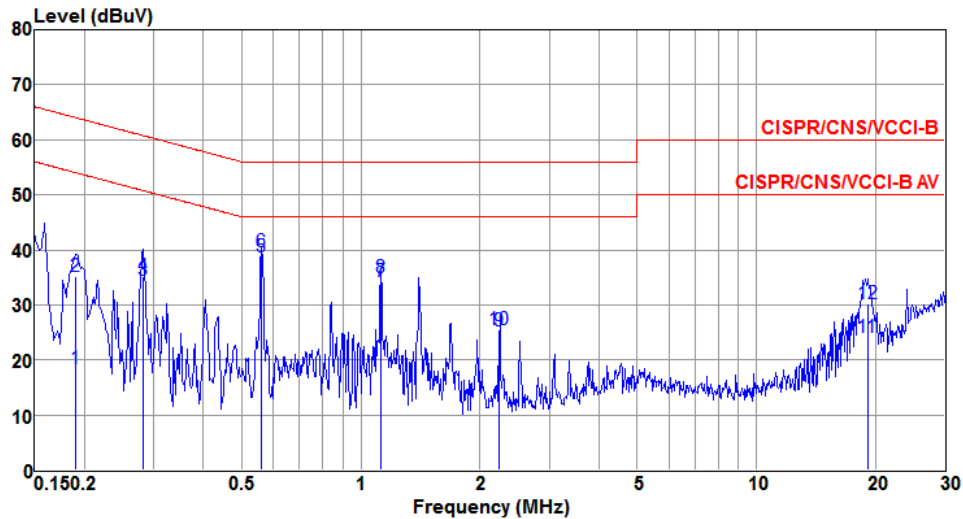


| | Freq | Level | Limit | Over | Read | LISN | cable | |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
| | MHz | dBuV | Line | Limit | Level | factor | loss | Remark |
| | | | dBuV | dB | dBuV | dB | dB | |
| 10 | 0.198 | 31.18 | 53.71 | -22.53 | 21.54 | 9.60 | 0.04 | Average |
| 2 | 0.198 | 37.78 | 63.71 | -25.93 | 28.14 | 9.60 | 0.04 | QP |
| 3 | 1.060 | 20.78 | 46.00 | -25.22 | 11.08 | 9.66 | 0.04 | Average |
| 4 | 1.060 | 24.71 | 56.00 | -31.29 | 15.01 | 9.66 | 0.04 | QP |
| 5 | 2.120 | 23.00 | 46.00 | -23.00 | 13.41 | 9.54 | 0.05 | Average |
| 6 | 2.120 | 27.07 | 56.00 | -28.93 | 17.48 | 9.54 | 0.05 | QP |
| 7 | 4.247 | 20.94 | 46.00 | -25.06 | 11.06 | 9.72 | 0.16 | Average |
| 8 | 4.247 | 28.48 | 56.00 | -27.52 | 18.60 | 9.72 | 0.16 | QP |
| 9 | 13.768 | 25.29 | 50.00 | -24.71 | 15.38 | 9.68 | 0.23 | Average |
| 10 | 13.768 | 32.17 | 60.00 | -27.83 | 22.26 | 9.68 | 0.23 | QP |
| 11 | 19.021 | 21.56 | 50.00 | -28.44 | 11.59 | 9.72 | 0.25 | Average |
| 12 | 19.021 | 27.30 | 60.00 | -32.70 | 17.33 | 9.72 | 0.25 | QP |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Beamforming mode

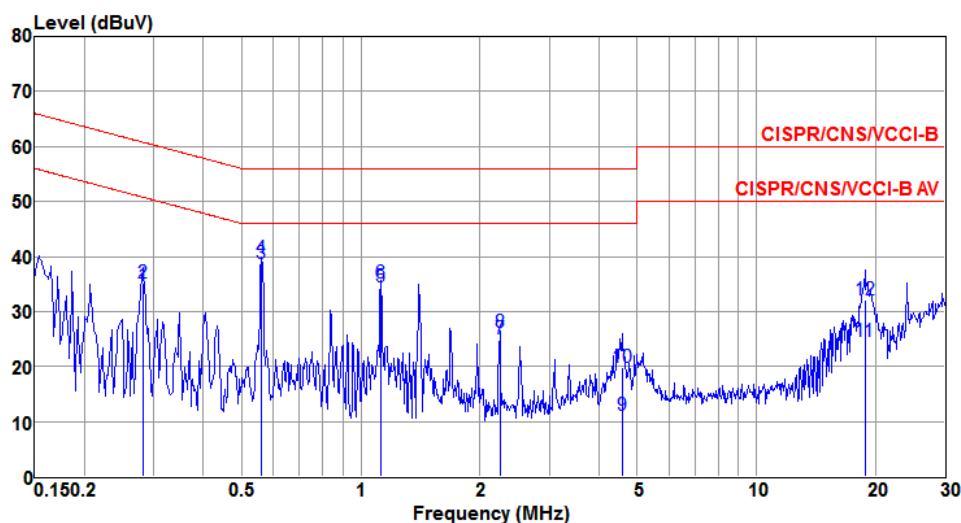
| | | | |
|-------------|------|--------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Power Phase | Line | Test configuration | 1 |



| | Freq MHz | Level dBuV | Limit Line dBuV | Over Limit dB | Read Level dBuV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.189 | 18.51 | 54.06 | -35.55 | 8.97 | 9.50 | 0.04 | Average |
| 2 | 0.189 | 35.07 | 64.06 | -28.99 | 25.53 | 9.50 | 0.04 | QP |
| 3 | 0.282 | 34.54 | 50.76 | -16.22 | 24.95 | 9.55 | 0.04 | Average |
| 4 | 0.282 | 35.23 | 60.76 | -25.53 | 25.64 | 9.55 | 0.04 | QP |
| 5@ | 0.561 | 38.67 | 46.00 | -7.33 | 29.08 | 9.55 | 0.04 | Average |
| 6 | 0.561 | 39.55 | 56.00 | -16.45 | 29.96 | 9.55 | 0.04 | QP |
| 7 | 1.123 | 34.29 | 46.00 | -11.71 | 24.76 | 9.49 | 0.04 | Average |
| 8 | 1.123 | 34.91 | 56.00 | -21.09 | 25.38 | 9.49 | 0.04 | QP |
| 9 | 2.244 | 25.27 | 46.00 | -20.73 | 15.60 | 9.61 | 0.06 | Average |
| 10 | 2.244 | 25.39 | 56.00 | -30.61 | 15.72 | 9.61 | 0.06 | QP |
| 11 | 19.122 | 24.04 | 50.00 | -25.96 | 14.08 | 9.71 | 0.25 | Average |
| 12 | 19.122 | 30.14 | 60.00 | -29.86 | 20.18 | 9.71 | 0.25 | QP |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

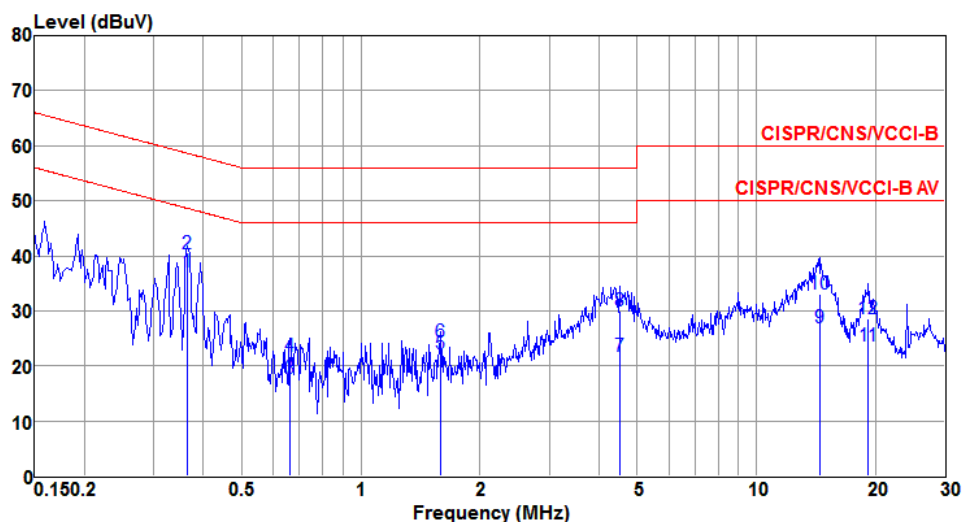
| | | | |
|-------------|---------|--------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Power Phase | Neutral | Test configuration | 1 |



| | Freq MHz | Level dBuV | Limit Line dBuV | Over Limit dB | Read Level dBuV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.282 | 34.58 | 50.76 | -16.18 | 24.97 | 9.57 | 0.04 | Average |
| 2 | 0.282 | 35.29 | 60.76 | -25.47 | 25.68 | 9.57 | 0.04 | QP |
| 3 | 0.561 | 38.71 | 46.00 | -7.29 | 29.08 | 9.59 | 0.04 | Average |
| 4 | 0.561 | 39.57 | 56.00 | -16.43 | 29.94 | 9.59 | 0.04 | QP |
| 5 | 1.123 | 34.58 | 46.00 | -11.42 | 24.89 | 9.65 | 0.04 | Average |
| 6 | 1.123 | 35.18 | 56.00 | -20.82 | 25.49 | 9.65 | 0.04 | QP |
| 7 | 2.245 | 25.12 | 46.00 | -20.88 | 15.51 | 9.55 | 0.06 | Average |
| 8 | 2.245 | 26.10 | 56.00 | -29.90 | 16.49 | 9.55 | 0.06 | QP |
| 9 | 4.574 | 11.15 | 46.00 | -34.85 | 1.27 | 9.71 | 0.17 | Average |
| 10 | 4.574 | 19.77 | 56.00 | -36.23 | 9.89 | 9.71 | 0.17 | QP |
| 11 | 18.820 | 24.62 | 50.00 | -25.38 | 14.66 | 9.71 | 0.25 | Average |
| 12 | 18.820 | 32.17 | 60.00 | -27.83 | 22.21 | 9.71 | 0.25 | QP |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

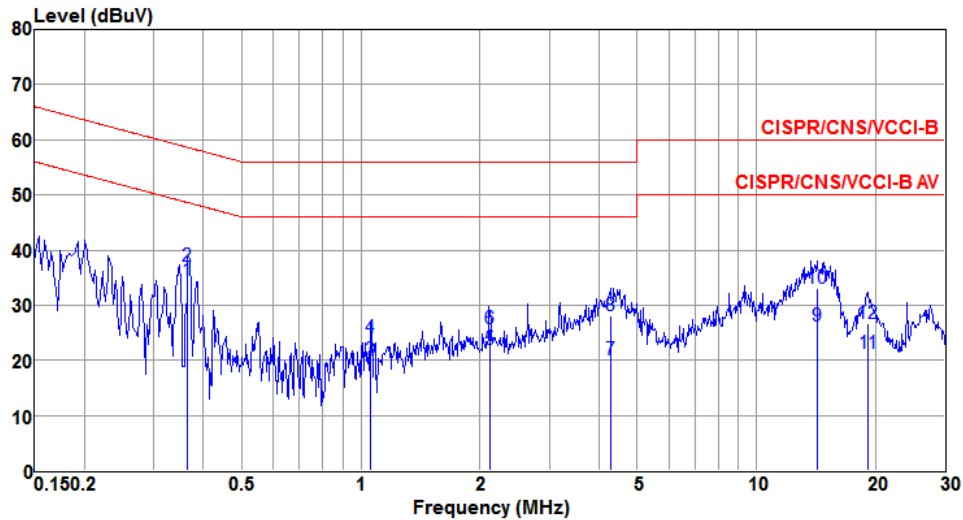
| | | | |
|-------------|------|--------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Power Phase | Line | Test configuration | 2 |



| | Freq | Level | Limit | Over | Read | LISN | cable | |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
| | MHz | dBuV | Line | Limit | Level | factor | loss | Remark |
| | | | dBuV | dB | dBuV | dB | dB | |
| 10 | 0.363 | 37.03 | 48.65 | -11.62 | 27.40 | 9.59 | 0.04 | Average |
| 2 | 0.363 | 40.44 | 58.65 | -18.21 | 30.81 | 9.59 | 0.04 | QP |
| 3 | 0.661 | 17.61 | 46.00 | -28.39 | 8.05 | 9.52 | 0.04 | Average |
| 4 | 0.661 | 21.68 | 56.00 | -34.32 | 12.12 | 9.52 | 0.04 | QP |
| 5 | 1.591 | 22.10 | 46.00 | -23.90 | 12.48 | 9.58 | 0.04 | Average |
| 6 | 1.591 | 24.37 | 56.00 | -31.63 | 14.75 | 9.58 | 0.04 | QP |
| 7 | 4.501 | 21.80 | 46.00 | -24.20 | 12.13 | 9.50 | 0.17 | Average |
| 8 | 4.501 | 29.89 | 56.00 | -26.11 | 20.22 | 9.50 | 0.17 | QP |
| 9 | 14.517 | 26.94 | 50.00 | -23.06 | 17.02 | 9.69 | 0.23 | Average |
| 10 | 14.517 | 32.97 | 60.00 | -27.03 | 23.05 | 9.69 | 0.23 | QP |
| 11 | 19.224 | 23.61 | 50.00 | -26.39 | 13.64 | 9.71 | 0.26 | Average |
| 12 | 19.224 | 28.51 | 60.00 | -31.49 | 18.54 | 9.71 | 0.26 | QP |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

| | | | |
|-------------|---------|--------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Power Phase | Neutral | Test configuration | 2 |



| | Freq MHz | Level dBuV | Limit Line dBuV | Over Limit dB | Read Level dBuV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1@ | 0.365 | 34.43 | 48.61 | -14.18 | 24.84 | 9.55 | 0.04 | Average |
| 2 | 0.365 | 36.97 | 58.61 | -21.64 | 27.38 | 9.55 | 0.04 | QP |
| 3 | 1.057 | 20.02 | 46.00 | -25.98 | 10.32 | 9.66 | 0.04 | Average |
| 4 | 1.057 | 24.09 | 56.00 | -31.91 | 14.39 | 9.66 | 0.04 | QP |
| 5 | 2.116 | 22.00 | 46.00 | -24.00 | 12.41 | 9.54 | 0.05 | Average |
| 6 | 2.116 | 25.85 | 56.00 | -30.15 | 16.26 | 9.54 | 0.05 | QP |
| 7 | 4.269 | 20.11 | 46.00 | -25.89 | 10.23 | 9.72 | 0.16 | Average |
| 8 | 4.269 | 28.17 | 56.00 | -27.83 | 18.29 | 9.72 | 0.16 | QP |
| 9 | 14.213 | 26.22 | 50.00 | -23.78 | 16.30 | 9.69 | 0.23 | Average |
| 10 | 14.213 | 33.11 | 60.00 | -26.89 | 23.19 | 9.69 | 0.23 | QP |
| 11 | 19.224 | 21.35 | 50.00 | -28.65 | 11.37 | 9.72 | 0.26 | Average |
| 12 | 19.224 | 26.60 | 60.00 | -33.40 | 16.62 | 9.72 | 0.26 | QP |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

3.2 Unwanted Emissions into Restricted Frequency Bands

3.2.1 Limit of Unwanted Emissions into Restricted Frequency Bands

| Restricted Band Emissions 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 |

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.2.2 Test Procedures

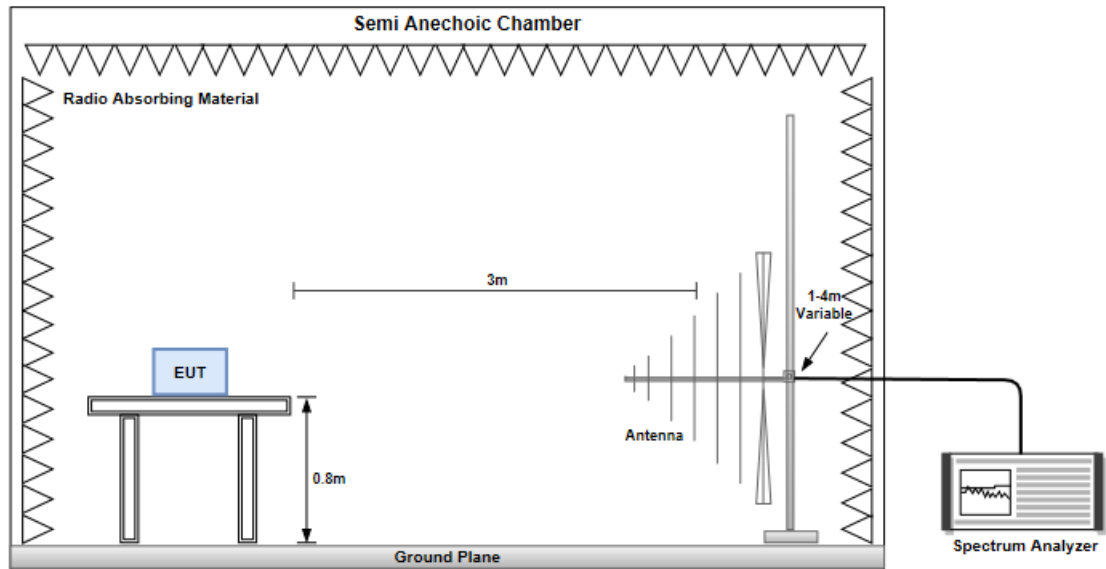
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

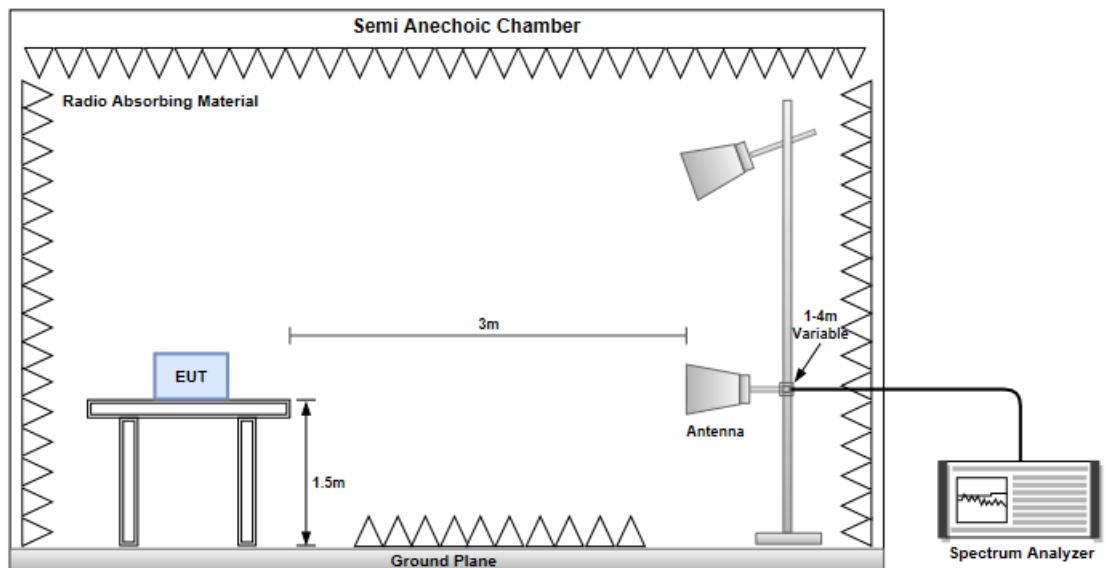
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.2.3 Test Setup

Radiated Emissions below 1 GHz



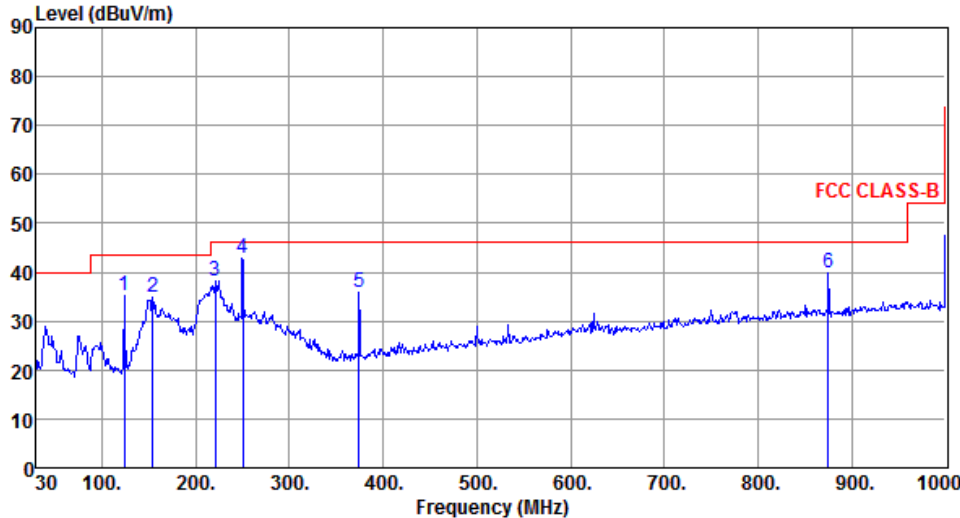
Radiated Emissions above 1 GHz



Non-beamforming mode

3.2.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

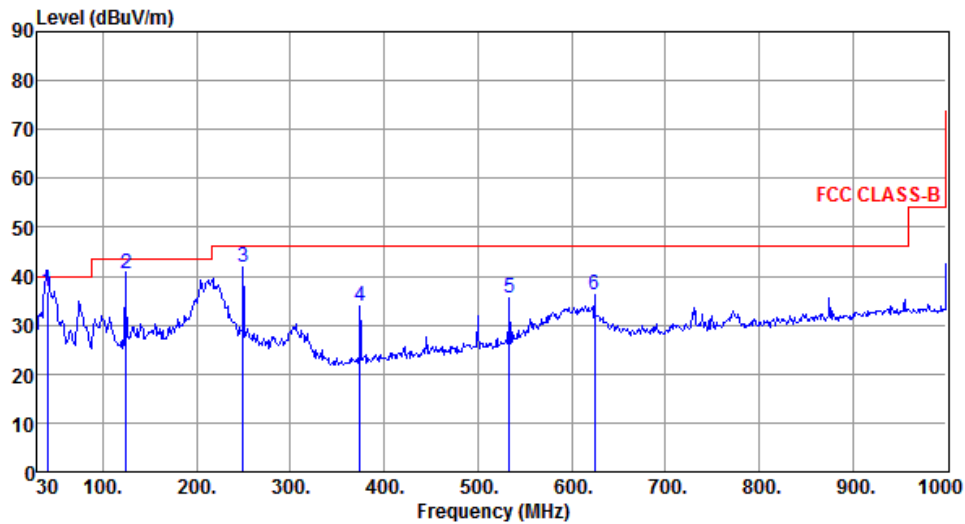
| | | | |
|--------------|------------|--------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal | Test Configuration | 1 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 124.09 | 35.37 | 43.50 | -8.13 | 45.90 | -10.53 | Peak | --- | --- |
| 2 | 154.16 | 34.71 | 43.50 | -8.79 | 43.08 | -8.37 | Peak | --- | --- |
| 3 | 221.09 | 38.17 | 46.00 | -7.83 | 49.06 | -10.89 | Peak | --- | --- |
| 4 | 250.00 | 42.95 | 46.00 | -3.05 | 52.32 | -9.37 | QP | 100 | 108 |
| 5 | 374.35 | 35.72 | 46.00 | -10.28 | 41.78 | -6.06 | Peak | --- | --- |
| 6 | 874.87 | 39.75 | 46.00 | -6.25 | 36.51 | 3.24 | Peak | --- | --- |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

| | | | |
|--------------|----------|--------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2437 |
| Polarization | Vertical | Test Configuration | 1 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 40.56 | 36.98 | 40.00 | -3.02 | 45.69 | -8.71 | QP | 100 | 12 |
| 2 | 125.00 | 40.49 | 43.50 | -3.01 | 50.94 | -10.45 | QP | 100 | 86 |
| 3 | 249.22 | 41.71 | 46.00 | -4.29 | 51.10 | -9.39 | Peak | --- | --- |
| 4 | 374.35 | 33.86 | 46.00 | -12.14 | 39.92 | -6.06 | Peak | --- | --- |
| 5 | 533.43 | 35.64 | 46.00 | -10.36 | 38.30 | -2.66 | Peak | --- | --- |
| 6 | 624.61 | 36.35 | 46.00 | -9.65 | 37.06 | -0.71 | Peak | --- | --- |

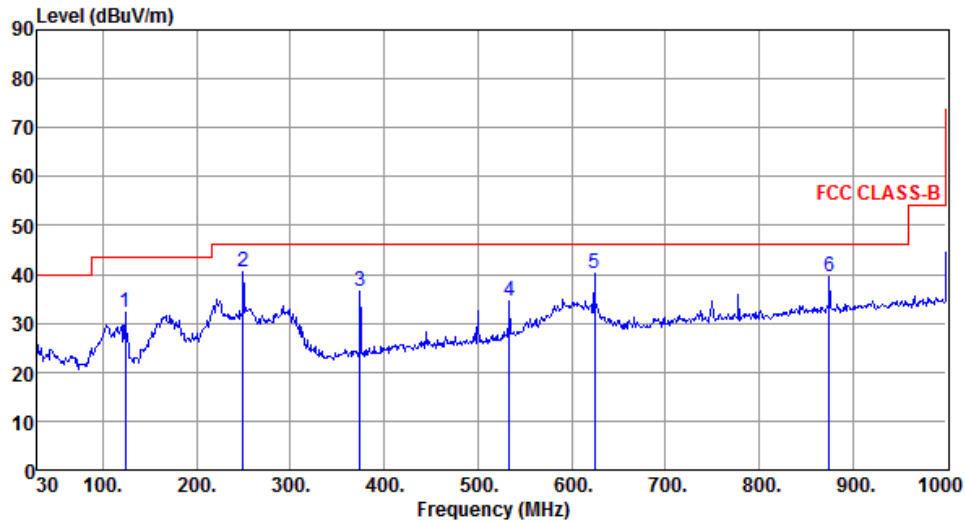
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

| | | | |
|--------------|------------|--------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal | Test Configuration | 2 |



| | Freq. MHz | Emission level dBUV/m | Limit dBUV/m | Margin dB | SA reading dBUV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 124.09 | 32.24 | 43.50 | -11.26 | 42.77 | -10.53 | Peak | --- | --- |
| 2 | 249.22 | 40.64 | 46.00 | -5.36 | 50.03 | -9.39 | Peak | --- | --- |
| 3 | 374.35 | 36.66 | 46.00 | -9.34 | 42.72 | -6.06 | Peak | --- | --- |
| 4 | 533.43 | 34.52 | 46.00 | -11.48 | 37.18 | -2.66 | Peak | --- | --- |
| 5 | 624.61 | 40.35 | 46.00 | -5.65 | 41.06 | -0.71 | Peak | --- | --- |
| 6 | 874.87 | 39.67 | 46.00 | -6.33 | 36.43 | 3.24 | Peak | --- | --- |

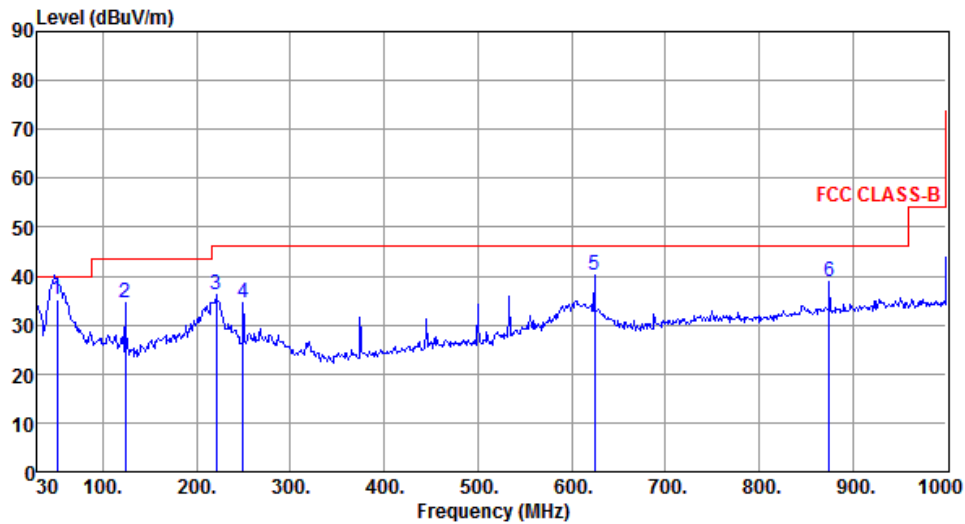
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

| | | | |
|--------------|----------|--------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2437 |
| Polarization | Vertical | Test Configuration | 2 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 51.20 | 35.09 | 40.00 | -4.91 | 43.34 | -8.25 | QP | 100 | 81 |
| 2 | 124.09 | 34.47 | 43.50 | -9.03 | 45.00 | -10.53 | Peak | --- | --- |
| 3 | 221.09 | 36.11 | 46.00 | -9.89 | 47.00 | -10.89 | Peak | --- | --- |
| 4 | 249.22 | 34.52 | 46.00 | -11.48 | 43.91 | -9.39 | Peak | --- | --- |
| 5 | 624.61 | 40.21 | 46.00 | -5.79 | 40.92 | -0.71 | Peak | --- | --- |
| 6 | 874.87 | 38.83 | 46.00 | -7.17 | 35.59 | 3.24 | Peak | --- | --- |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

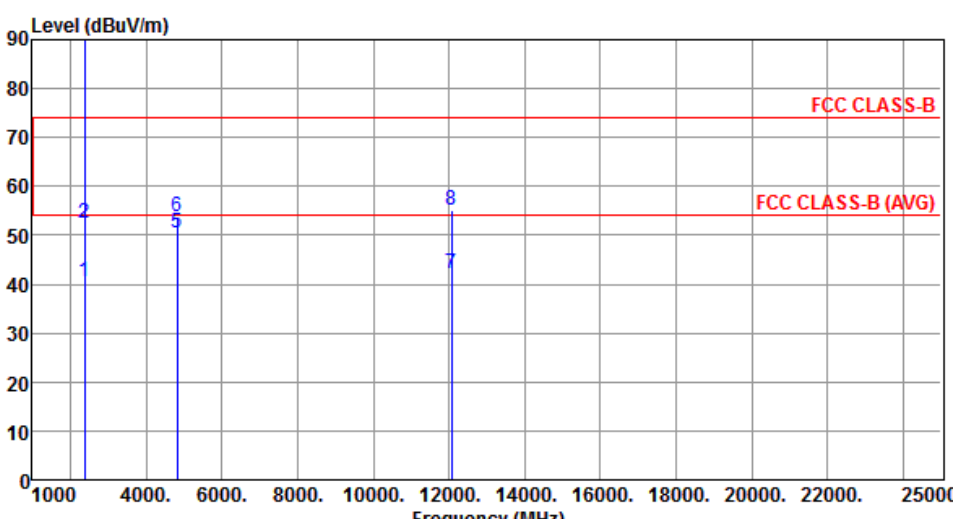
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.2.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

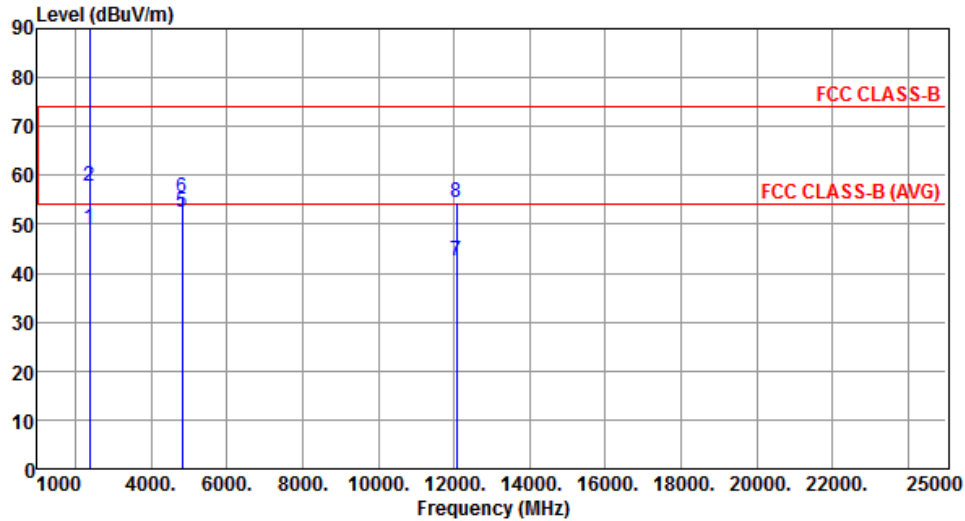
| | | | |
|--------------|------------|------------------|------|
| Modulation | 11b | Test Freq. (MHz) | 2412 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBUV/m | Limit dBUV/m | Margin dB | SA reading dBUV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 40.58 | 54.00 | -13.42 | 42.55 | -1.97 | Average | 295 | 255 |
| 2 | 2390.00 | 52.39 | 74.00 | -21.61 | 54.36 | -1.97 | Peak | 295 | 255 |
| 3 * | 2412.00 | 104.32 | | | 106.20 | -1.88 | Average | 295 | 255 |
| 4 * | 2412.00 | 106.68 | | | 108.56 | -1.88 | Peak | 295 | 255 |
| 5 | 4824.00 | 50.35 | 54.00 | -3.65 | 45.68 | 4.67 | Average | 354 | 256 |
| 6 | 4824.00 | 53.84 | 74.00 | -20.16 | 49.17 | 4.67 | Peak | 354 | 256 |
| 7 | 12060.00 | 42.32 | 54.00 | -11.68 | 28.49 | 13.83 | Average | 100 | 118 |
| 8 | 12060.00 | 55.13 | 74.00 | -18.87 | 41.30 | 13.83 | Peak | 100 | 118 |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
 Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | 11b | Test Freq. (MHz) | 2412 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 49.16 | 54.00 | -4.84 | 51.13 | -1.97 | Average | 345 | 163 |
| 2 | 2390.00 | 57.93 | 74.00 | -16.07 | 59.90 | -1.97 | Peak | 345 | 163 |
| 3 * | 2412.00 | 112.58 | | | 114.46 | -1.88 | Average | 345 | 163 |
| 4 * | 2412.00 | 115.16 | | | 117.04 | -1.88 | Peak | 345 | 163 |
| 5 | 4824.00 | 52.58 | 54.00 | -1.42 | 47.91 | 4.67 | Average | 306 | 335 |
| 6 | 4824.00 | 55.50 | 74.00 | -18.50 | 50.83 | 4.67 | Peak | 306 | 335 |
| 7 | 12060.00 | 42.60 | 54.00 | -11.40 | 28.77 | 13.83 | Average | 100 | 235 |
| 8 | 12060.00 | 54.61 | 74.00 | -19.39 | 40.78 | 13.83 | Peak | 100 | 235 |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

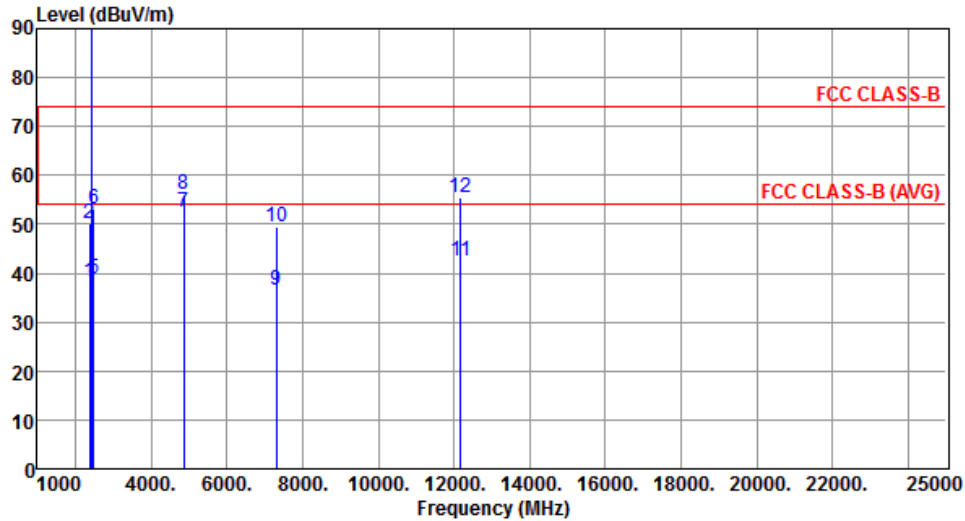
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---|------------|------------------|------|
| Modulation | 11b | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal | | |
| <div><div><div>Level (dBUV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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| | | | |
|--------------|----------|------------------|------|
| Modulation | 11b | Test Freq. (MHz) | 2437 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 38.21 | 54.00 | -15.79 | 40.18 | -1.97 | Average | 371 | 169 |
| 2 | 2390.00 | 50.26 | 74.00 | -23.74 | 52.23 | -1.97 | Peak | 371 | 169 |
| 3 * | 2437.00 | 111.69 | | | 113.47 | -1.78 | Average | 371 | 169 |
| 4 * | 2437.00 | 114.27 | | | 116.05 | -1.78 | Peak | 371 | 169 |
| 5 | 2483.50 | 38.98 | 54.00 | -15.02 | 40.60 | -1.62 | Average | 317 | 169 |
| 6 | 2483.50 | 53.02 | 74.00 | -20.98 | 54.64 | -1.62 | Peak | 317 | 169 |
| 7 | 4874.00 | 52.62 | 54.00 | -1.38 | 47.85 | 4.77 | Average | 288 | 328 |
| 8 | 4874.00 | 56.28 | 74.00 | -17.72 | 51.51 | 4.77 | Peak | 288 | 328 |
| 9 | 7311.00 | 36.55 | 54.00 | -17.45 | 27.24 | 9.31 | Average | 100 | 64 |
| 10 | 7311.00 | 49.37 | 74.00 | -24.63 | 40.06 | 9.31 | Peak | 100 | 64 |
| 11 | 12185.00 | 42.58 | 54.00 | -11.42 | 28.91 | 13.67 | Average | 100 | 215 |
| 12 | 12185.00 | 55.31 | 74.00 | -18.69 | 41.64 | 13.67 | Peak | 100 | 215 |

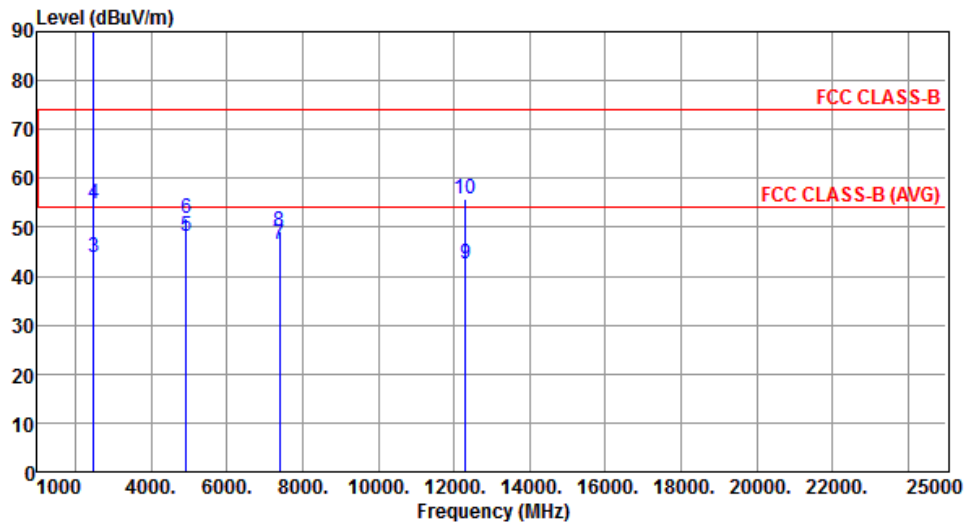
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|------------|------------------|------|
| Modulation | 11b | Test Freq. (MHz) | 2462 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBUV/m | Limit dBUV/m | Margin dB | SA reading dBUV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2462.00 | 104.47 | | | 106.16 | -1.69 | Average | 315 | 254 |
| 2 | * | 2462.00 | 107.02 | | | 108.71 | -1.69 | Peak | 315 | 254 |
| 3 | | 2483.50 | 43.86 | 54.00 | -10.14 | 45.48 | -1.62 | Average | 315 | 254 |
| 4 | | 2483.50 | 54.84 | 74.00 | -19.16 | 56.46 | -1.62 | Peak | 315 | 254 |
| 5 | | 4924.00 | 48.12 | 54.00 | -5.88 | 43.26 | 4.86 | Average | 390 | 250 |
| 6 | | 4924.00 | 51.90 | 74.00 | -22.10 | 47.04 | 4.86 | Peak | 390 | 250 |
| 7 | | 7386.00 | 46.35 | 54.00 | -7.65 | 36.77 | 9.58 | Average | 100 | 124 |
| 8 | | 7386.00 | 49.12 | 74.00 | -24.88 | 39.54 | 9.58 | Peak | 100 | 124 |
| 9 | | 12310.00 | 42.49 | 54.00 | -11.51 | 28.99 | 13.50 | Average | 100 | 262 |
| 10 | | 12310.00 | 55.69 | 74.00 | -18.31 | 42.19 | 13.50 | Peak | 100 | 262 |

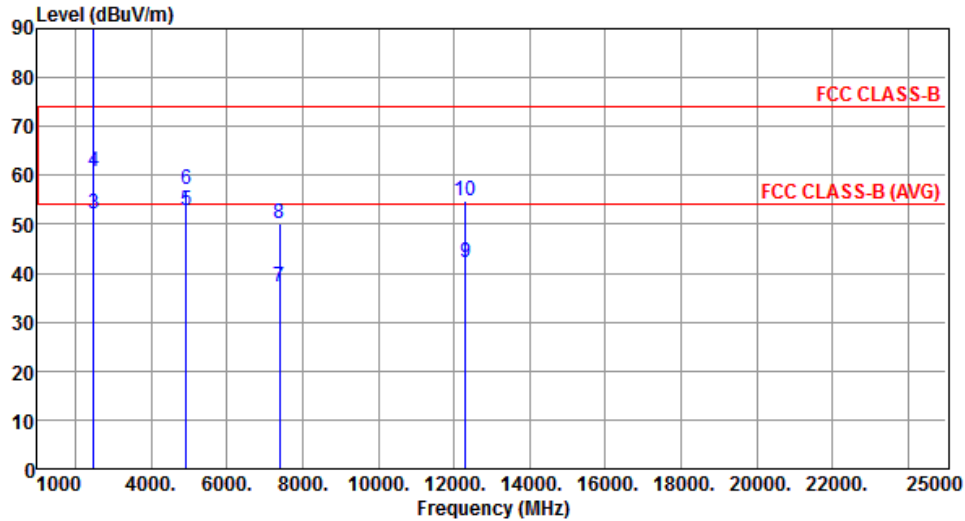
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | 11b | Test Freq. (MHz) | 2462 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2462.00 | 112.25 | | | 113.94 | -1.69 | Average | 315 | 164 |
| 2 | * | 2462.00 | 114.90 | | | 116.59 | -1.69 | Peak | 315 | 164 |
| 3 | | 2483.50 | 52.05 | 54.00 | -1.95 | 53.67 | -1.62 | Average | 315 | 164 |
| 4 | | 2483.50 | 60.93 | 74.00 | -13.07 | 62.55 | -1.62 | Peak | 315 | 164 |
| 5 | | 4924.00 | 52.93 | 54.00 | -1.07 | 48.07 | 4.86 | Average | 310 | 336 |
| 6 | | 4924.00 | 57.25 | 74.00 | -16.75 | 52.39 | 4.86 | Peak | 310 | 336 |
| 7 | | 7386.00 | 37.07 | 54.00 | -16.93 | 27.49 | 9.58 | Average | 100 | 73 |
| 8 | | 7386.00 | 50.02 | 74.00 | -23.98 | 40.44 | 9.58 | Peak | 100 | 73 |
| 9 | | 12310.00 | 42.22 | 54.00 | -11.78 | 28.72 | 13.50 | Average | 100 | 204 |
| 10 | | 12310.00 | 54.81 | 74.00 | -19.19 | 41.31 | 13.50 | Peak | 100 | 204 |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

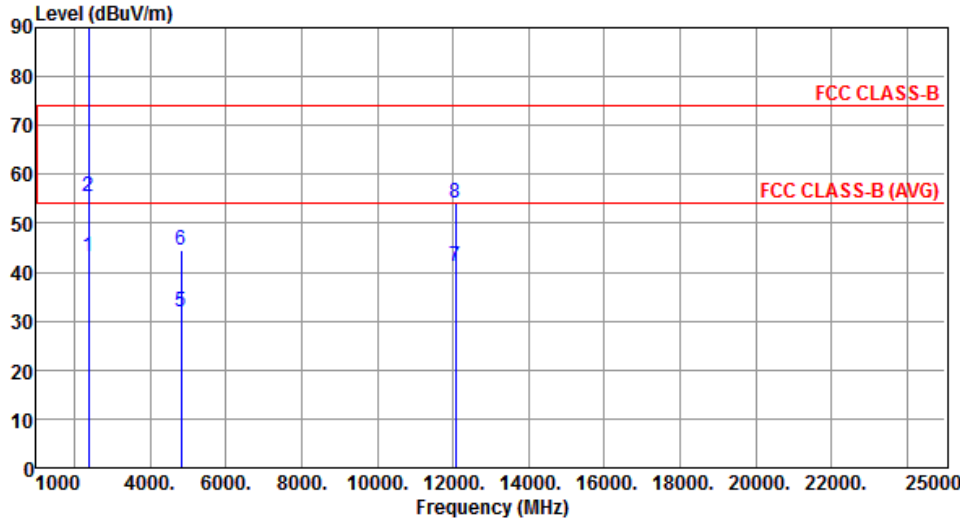
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

3.2.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

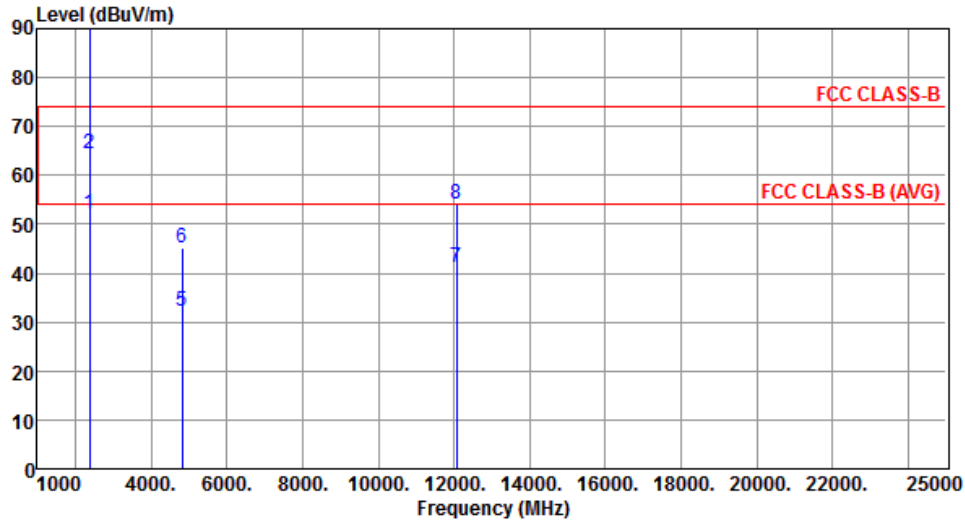
| | | | |
|--------------|------------|------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2412 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBUV/m | Limit dBUV/m | Margin dB | SA reading dBUV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 43.31 | 54.00 | -10.69 | 45.28 | -1.97 | Average | 258 | 263 |
| 2 | 2390.00 | 55.42 | 74.00 | -18.58 | 57.39 | -1.97 | Peak | 258 | 263 |
| 3 * | 2412.00 | 93.06 | | | 94.94 | -1.88 | Average | 258 | 263 |
| 4 * | 2412.00 | 103.22 | | | 105.10 | -1.88 | Peak | 258 | 263 |
| 5 | 4824.00 | 31.93 | 54.00 | -22.07 | 27.26 | 4.67 | Average | 100 | 42 |
| 6 | 4824.00 | 44.59 | 74.00 | -29.41 | 39.92 | 4.67 | Peak | 100 | 42 |
| 7 | 12060.00 | 41.33 | 54.00 | -12.67 | 27.50 | 13.83 | Average | 100 | 231 |
| 8 | 12060.00 | 54.17 | 74.00 | -19.83 | 40.34 | 13.83 | Peak | 100 | 231 |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
 Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2412 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 52.26 | 54.00 | -1.74 | 54.23 | -1.97 | Average | 293 | 138 |
| 2 | 2390.00 | 64.38 | 74.00 | -9.62 | 66.35 | -1.97 | Peak | 293 | 138 |
| 3 * | 2412.00 | 100.64 | | | 102.52 | -1.88 | Average | 293 | 138 |
| 4 * | 2412.00 | 111.54 | | | 113.42 | -1.88 | Peak | 293 | 138 |
| 5 | 4824.00 | 32.35 | 54.00 | -21.65 | 27.68 | 4.67 | Average | 100 | 174 |
| 6 | 4824.00 | 45.31 | 74.00 | -28.69 | 40.64 | 4.67 | Peak | 100 | 174 |
| 7 | 12060.00 | 41.21 | 54.00 | -12.79 | 27.38 | 13.83 | Average | 100 | 294 |
| 8 | 12060.00 | 54.26 | 74.00 | -19.74 | 40.43 | 13.83 | Peak | 100 | 294 |

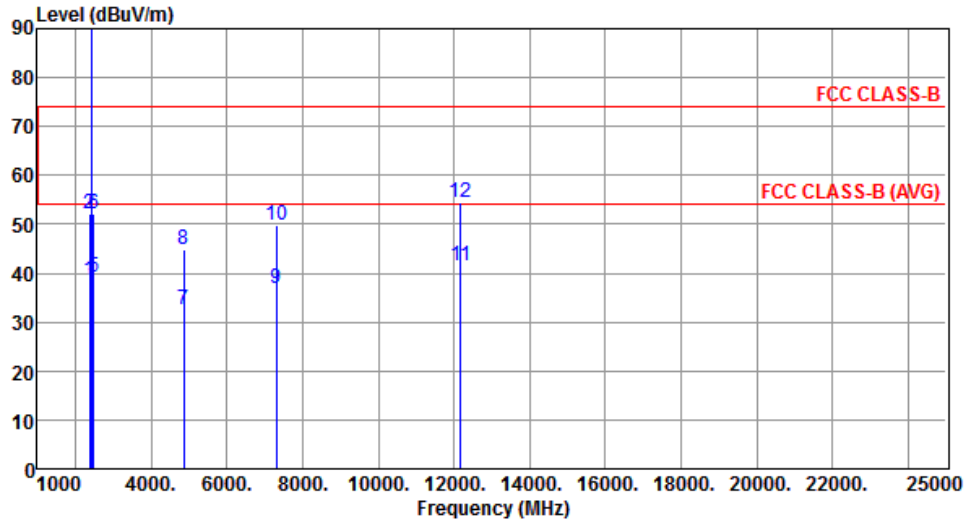
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|------------|------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 38.51 | 54.00 | -15.49 | 40.48 | -1.97 | Average | 262 | 163 |
| 2 | 2390.00 | 52.09 | 74.00 | -21.91 | 54.06 | -1.97 | Peak | 262 | 163 |
| 3 * | 2437.00 | 96.96 | | | 98.74 | -1.78 | Average | 262 | 163 |
| 4 * | 2437.00 | 106.33 | | | 108.11 | -1.78 | Peak | 262 | 163 |
| 5 | 2483.50 | 39.21 | 54.00 | -14.79 | 40.83 | -1.62 | Average | 262 | 163 |
| 6 | 2483.50 | 52.19 | 74.00 | -21.81 | 53.81 | -1.62 | Peak | 262 | 163 |
| 7 | 4874.00 | 32.53 | 54.00 | -21.47 | 27.76 | 4.77 | Average | 100 | 55 |
| 8 | 4874.00 | 44.93 | 74.00 | -29.07 | 40.16 | 4.77 | Peak | 100 | 55 |
| 9 | 7311.00 | 36.88 | 54.00 | -17.12 | 27.57 | 9.31 | Average | 100 | 311 |
| 10 | 7311.00 | 49.69 | 74.00 | -24.31 | 40.38 | 9.31 | Peak | 100 | 311 |
| 11 | 12185.00 | 41.50 | 54.00 | -12.50 | 27.83 | 13.67 | Average | 100 | 234 |
| 12 | 12185.00 | 54.55 | 74.00 | -19.45 | 40.88 | 13.67 | Peak | 100 | 234 |

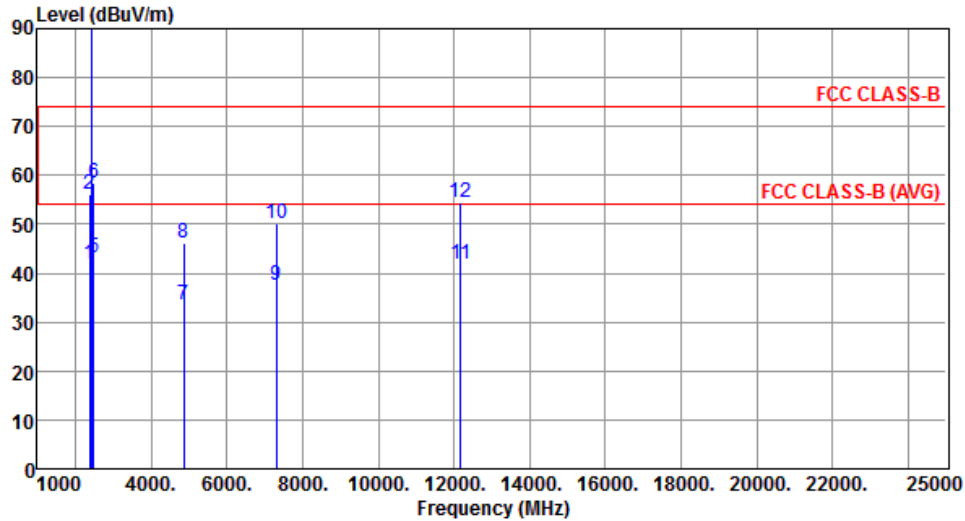
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2437 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 41.83 | 54.00 | -12.17 | 43.80 | -1.97 | Average | 378 | 153 |
| 2 | 2390.00 | 56.23 | 74.00 | -17.77 | 58.20 | -1.97 | Peak | 378 | 153 |
| 3 * | 2437.00 | 106.71 | | | 108.49 | -1.78 | Average | 378 | 153 |
| 4 * | 2437.00 | 116.92 | | | 118.70 | -1.78 | Peak | 378 | 153 |
| 5 | 2483.50 | 43.19 | 54.00 | -10.81 | 44.81 | -1.62 | Average | 378 | 153 |
| 6 | 2483.50 | 58.59 | 74.00 | -15.41 | 60.21 | -1.62 | Peak | 378 | 153 |
| 7 | 4874.00 | 33.44 | 54.00 | -20.56 | 28.67 | 4.77 | Average | 276 | 177 |
| 8 | 4874.00 | 46.23 | 74.00 | -27.77 | 41.46 | 4.77 | Peak | 276 | 177 |
| 9 | 7311.00 | 37.55 | 54.00 | -16.45 | 28.24 | 9.31 | Average | 100 | 253 |
| 10 | 7311.00 | 50.19 | 74.00 | -23.81 | 40.88 | 9.31 | Peak | 100 | 253 |
| 11 | 12185.00 | 41.80 | 54.00 | -12.20 | 28.13 | 13.67 | Average | 100 | 294 |
| 12 | 12185.00 | 54.39 | 74.00 | -19.61 | 40.72 | 13.67 | Peak | 100 | 294 |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

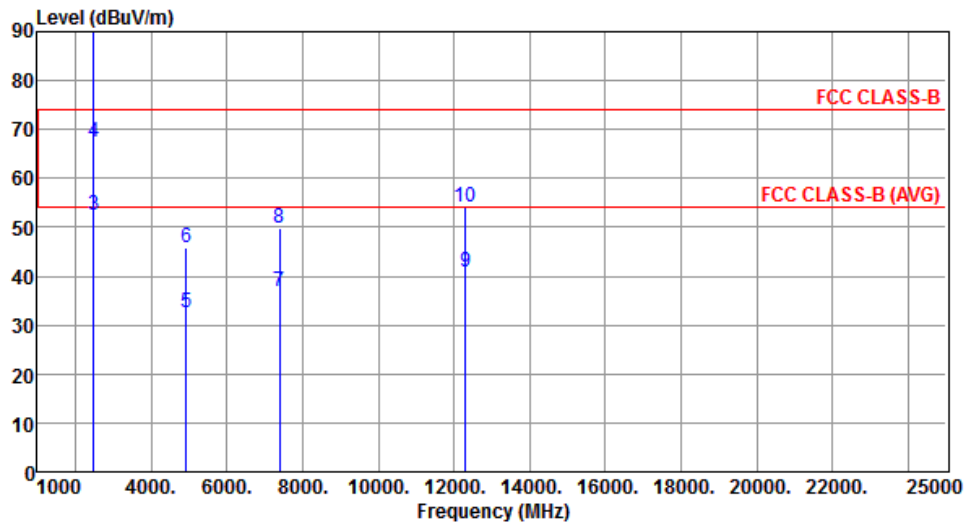
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | | | | | | | | |
|--|--|------------|--|--|------------------|--|------|--|--|--|
| Modulation | | 11g | | | Test Freq. (MHz) | | 2462 | | | |
| Polarization | | Horizontal | | | | | | | | |
| <div><div><div>Level (dBUV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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| | | | | | | | | | |

| | | | |
|--------------|----------|------------------|------|
| Modulation | 11g | Test Freq. (MHz) | 2462 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2462.00 | 102.75 | | | 104.44 | -1.69 | Average | 262 | 142 |
| 2 | * | 2462.00 | 113.02 | | | 114.71 | -1.69 | Peak | 262 | 142 |
| 3 | | 2483.50 | 52.55 | 54.00 | -1.45 | 54.17 | -1.62 | Average | 262 | 142 |
| 4 | | 2483.50 | 67.49 | 74.00 | -6.51 | 69.11 | -1.62 | Peak | 262 | 142 |
| 5 | | 4924.00 | 32.68 | 54.00 | -21.32 | 27.82 | 4.86 | Average | 284 | 180 |
| 6 | | 4924.00 | 45.84 | 74.00 | -28.16 | 40.98 | 4.86 | Peak | 284 | 180 |
| 7 | | 7386.00 | 36.92 | 54.00 | -17.08 | 27.34 | 9.58 | Average | 100 | 224 |
| 8 | | 7386.00 | 49.91 | 74.00 | -24.09 | 40.33 | 9.58 | Peak | 100 | 224 |
| 9 | | 12310.00 | 40.97 | 54.00 | -13.03 | 27.47 | 13.50 | Average | 100 | 302 |
| 10 | | 12310.00 | 54.01 | 74.00 | -19.99 | 40.51 | 13.50 | Peak | 100 | 302 |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

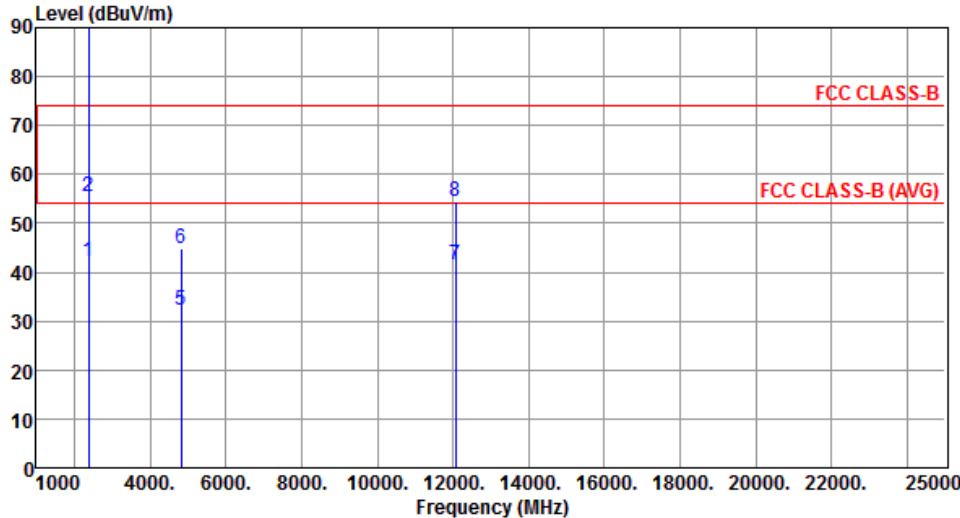
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

3.2.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

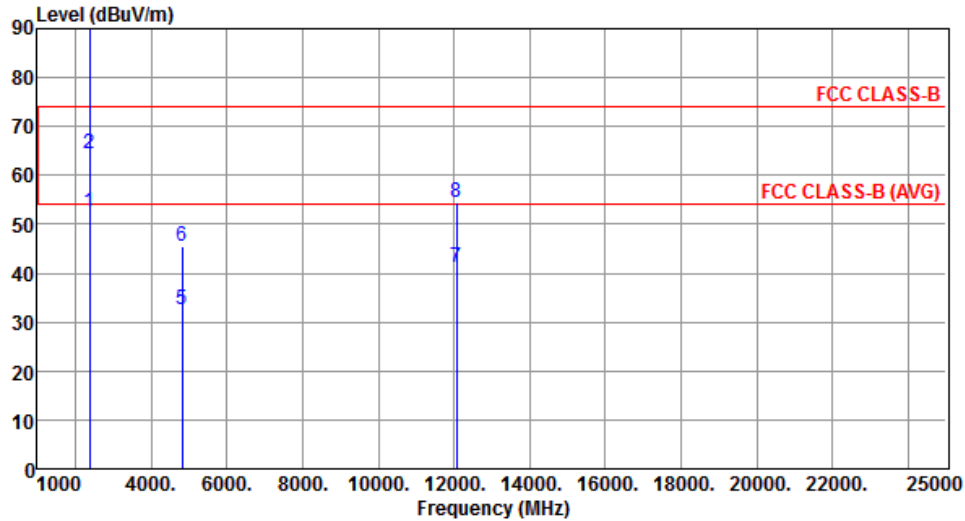
| | | | |
|--------------|------------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2412 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBUV/m | Limit dBUV/m | Margin dB | SA reading dBUV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 42.15 | 54.00 | -11.85 | 44.12 | -1.97 | Average | 286 | 145 |
| 2 | 2390.00 | 55.56 | 74.00 | -18.44 | 57.53 | -1.97 | Peak | 286 | 145 |
| 3 * | 2412.00 | 90.38 | | | 92.26 | -1.88 | Average | 286 | 145 |
| 4 * | 2412.00 | 99.94 | | | 101.82 | -1.88 | Peak | 286 | 145 |
| 5 | 4824.00 | 32.06 | 54.00 | -21.94 | 27.39 | 4.67 | Average | 100 | 46 |
| 6 | 4824.00 | 44.75 | 74.00 | -29.25 | 40.08 | 4.67 | Peak | 100 | 46 |
| 7 | 12060.00 | 41.50 | 54.00 | -12.50 | 27.67 | 13.83 | Average | 100 | 308 |
| 8 | 12060.00 | 54.35 | 74.00 | -19.65 | 40.52 | 13.83 | Peak | 100 | 308 |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
 Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2412 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBUV/m | Limit dBUV/m | Margin dB | SA reading dBUV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 52.46 | 54.00 | -1.54 | 54.43 | -1.97 | Average | 313 | 146 |
| 2 | 2390.00 | 64.35 | 74.00 | -9.65 | 66.32 | -1.97 | Peak | 313 | 146 |
| 3 * | 2412.00 | 100.00 | | | 101.88 | -1.88 | Average | 313 | 146 |
| 4 * | 2412.00 | 110.10 | | | 111.98 | -1.88 | Peak | 313 | 146 |
| 5 | 4824.00 | 32.61 | 54.00 | -21.39 | 27.94 | 4.67 | Average | 100 | 165 |
| 6 | 4824.00 | 45.52 | 74.00 | -28.48 | 40.85 | 4.67 | Peak | 100 | 165 |
| 7 | 12060.00 | 41.28 | 54.00 | -12.72 | 27.45 | 13.83 | Average | 100 | 286 |
| 8 | 12060.00 | 54.50 | 74.00 | -19.50 | 40.67 | 13.83 | Peak | 100 | 286 |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

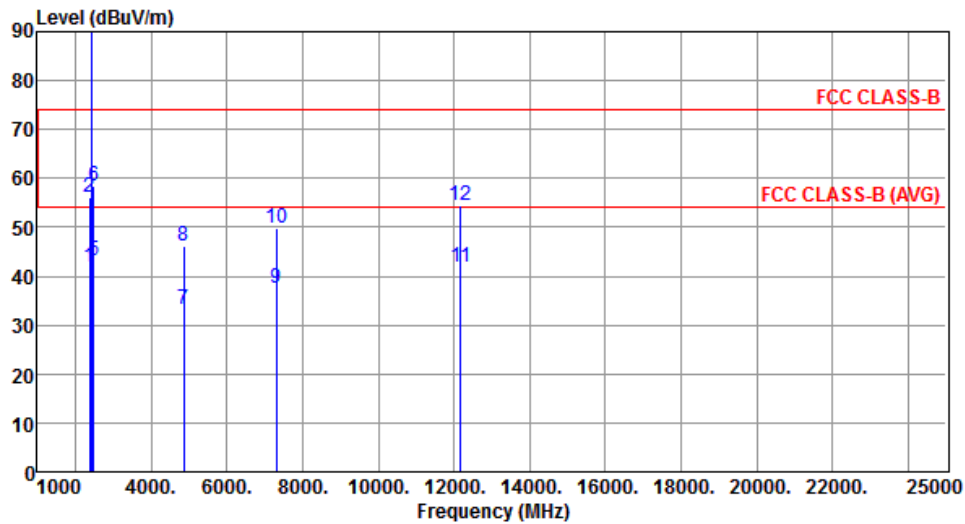
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---|------------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal | | |
| <div><div><div>Level (dBUV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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| | | |

| | | | |
|--------------|----------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 41.70 | 54.00 | -12.30 | 43.67 | -1.97 | Average | 373 | 155 |
| 2 | 2390.00 | 56.12 | 74.00 | -17.88 | 58.09 | -1.97 | Peak | 373 | 155 |
| 3 * | 2437.00 | 106.07 | | | 107.85 | -1.78 | Average | 373 | 155 |
| 4 * | 2437.00 | 116.05 | | | 117.83 | -1.78 | Peak | 373 | 155 |
| 5 | 2483.50 | 43.13 | 54.00 | -10.87 | 44.75 | -1.62 | Average | 373 | 155 |
| 6 | 2483.50 | 58.51 | 74.00 | -15.49 | 60.13 | -1.62 | Peak | 373 | 155 |
| 7 | 4874.00 | 33.38 | 54.00 | -20.62 | 28.61 | 4.77 | Average | 267 | 173 |
| 8 | 4874.00 | 46.09 | 74.00 | -27.91 | 41.32 | 4.77 | Peak | 267 | 173 |
| 9 | 7311.00 | 37.47 | 54.00 | -16.53 | 28.16 | 9.31 | Average | 100 | 250 |
| 10 | 7311.00 | 49.95 | 74.00 | -24.05 | 40.64 | 9.31 | Peak | 100 | 250 |
| 11 | 12185.00 | 41.91 | 54.00 | -12.09 | 28.24 | 13.67 | Average | 100 | 285 |
| 12 | 12185.00 | 54.35 | 74.00 | -19.65 | 40.68 | 13.67 | Peak | 100 | 285 |

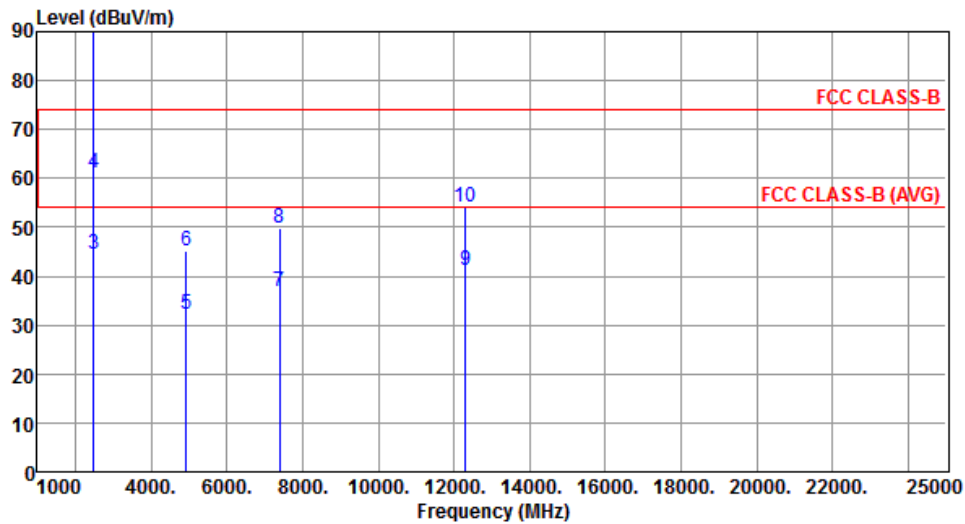
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|------------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2462 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2462.00 | 92.84 | | | 94.53 | -1.69 | Average | 259 | 152 |
| 2 | * | 2462.00 | 102.78 | | | 104.47 | -1.69 | Peak | 259 | 152 |
| 3 | | 2483.50 | 44.64 | 54.00 | -9.36 | 46.26 | -1.62 | Average | 259 | 152 |
| 4 | | 2483.50 | 61.26 | 74.00 | -12.74 | 62.88 | -1.62 | Peak | 259 | 152 |
| 5 | | 4924.00 | 32.25 | 54.00 | -21.75 | 27.39 | 4.86 | Average | 100 | 55 |
| 6 | | 4924.00 | 45.02 | 74.00 | -28.98 | 40.16 | 4.86 | Peak | 100 | 55 |
| 7 | | 7386.00 | 36.94 | 54.00 | -17.06 | 27.36 | 9.58 | Average | 100 | 296 |
| 8 | | 7386.00 | 49.69 | 74.00 | -24.31 | 40.11 | 9.58 | Peak | 100 | 296 |
| 9 | | 12310.00 | 41.22 | 54.00 | -12.78 | 27.72 | 13.50 | Average | 100 | 239 |
| 10 | | 12310.00 | 54.25 | 74.00 | -19.75 | 40.75 | 13.50 | Peak | 100 | 239 |

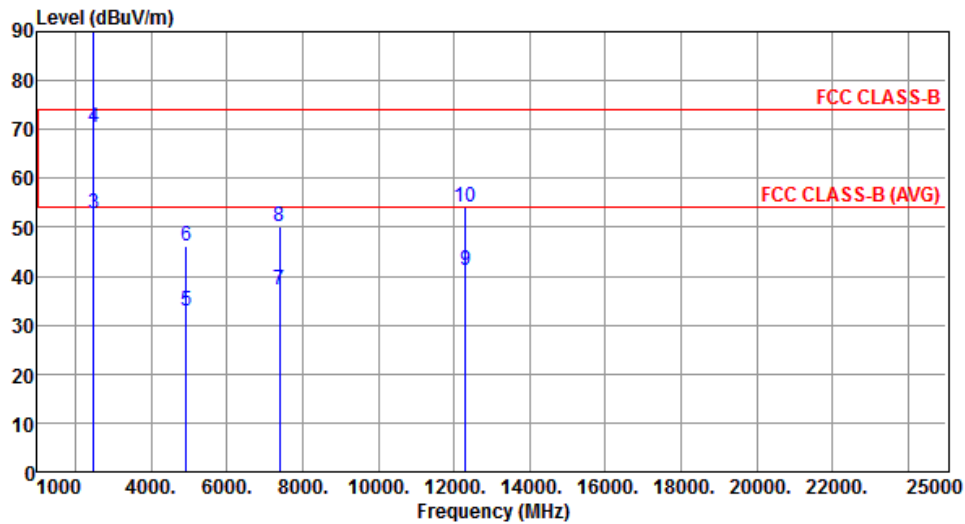
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2462 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2462.00 | 101.95 | | | 103.64 | -1.69 | Average | 293 | 142 |
| 2 | * | 2462.00 | 111.54 | | | 113.23 | -1.69 | Peak | 293 | 142 |
| 3 | | 2483.50 | 52.80 | 54.00 | -1.20 | 54.42 | -1.62 | Average | 293 | 142 |
| 4 | | 2483.50 | 70.46 | 74.00 | -3.54 | 72.08 | -1.62 | Peak | 293 | 142 |
| 5 | | 4924.00 | 32.92 | 54.00 | -21.08 | 28.06 | 4.86 | Average | 278 | 183 |
| 6 | | 4924.00 | 46.12 | 74.00 | -27.88 | 41.26 | 4.86 | Peak | 278 | 183 |
| 7 | | 7386.00 | 37.07 | 54.00 | -16.93 | 27.49 | 9.58 | Average | 100 | 218 |
| 8 | | 7386.00 | 50.09 | 74.00 | -23.91 | 40.51 | 9.58 | Peak | 100 | 218 |
| 9 | | 12310.00 | 41.25 | 54.00 | -12.75 | 27.75 | 13.50 | Average | 100 | 292 |
| 10 | | 12310.00 | 54.17 | 74.00 | -19.83 | 40.67 | 13.50 | Peak | 100 | 292 |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

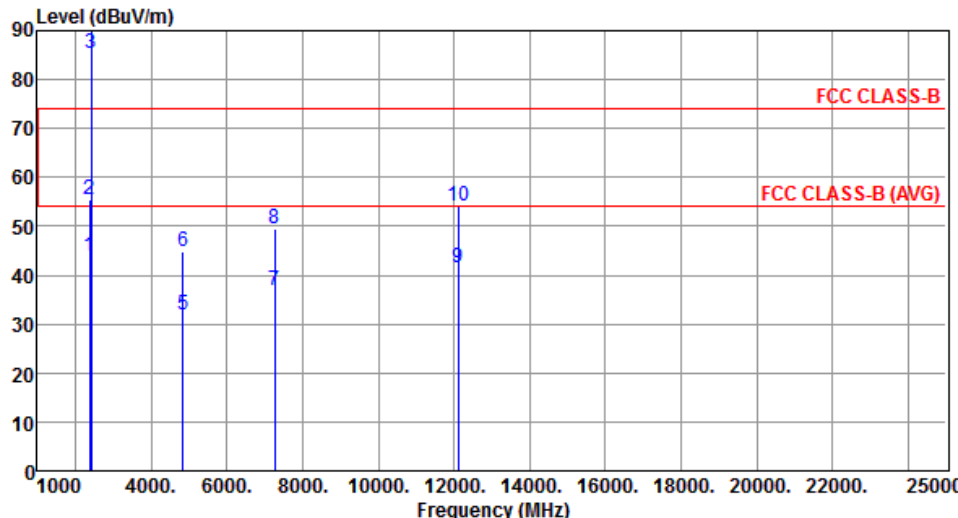
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

3.2.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

| | | | | | | |
|--------------|------------|--|------------------|--|------|--|
| Modulation | HT40 | | Test Freq. (MHz) | | 2422 | |
| Polarization | Horizontal | | | | | |



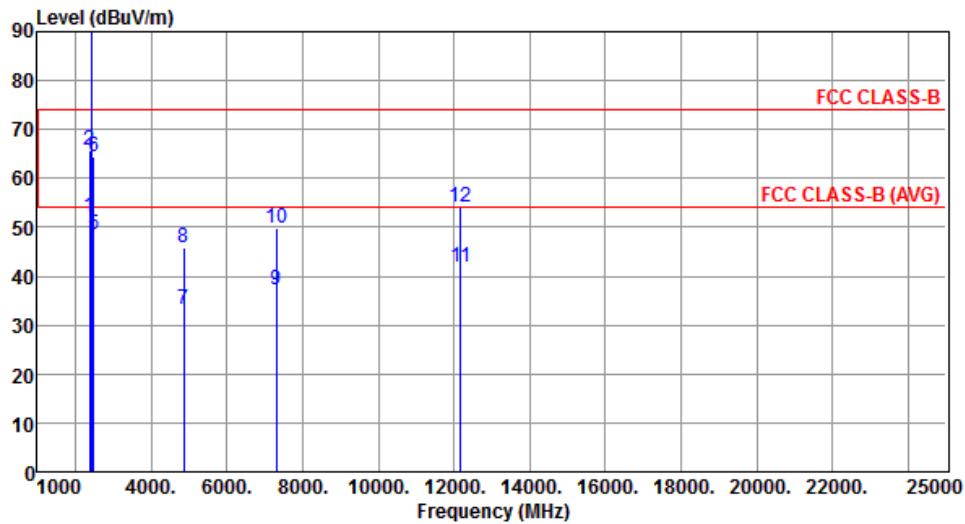
| | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn |
|-----|----------|----------|--------|--------|---------|--------|---------|------|-------|
| | MHz | level | dBuV/m | dB | reading | dB | | High | Table |
| | | | | | dBuV | | | cm | deg |
| 1 | 2390.00 | 43.96 | 54.00 | -10.04 | 45.93 | -1.97 | Average | 239 | 157 |
| 2 | 2390.00 | 55.59 | 74.00 | -18.41 | 57.56 | -1.97 | Peak | 239 | 157 |
| 3 * | 2422.00 | 85.33 | | | 87.17 | -1.84 | Average | 239 | 157 |
| 4 * | 2422.00 | 95.02 | | | 96.86 | -1.84 | Peak | 239 | 157 |
| 5 | 4844.00 | 31.95 | 54.00 | -22.05 | 27.25 | 4.70 | Average | 100 | 53 |
| 6 | 4844.00 | 44.79 | 74.00 | -29.21 | 40.09 | 4.70 | Peak | 100 | 53 |
| 7 | 7266.00 | 36.72 | 54.00 | -17.28 | 27.57 | 9.15 | Average | 100 | 277 |
| 8 | 7266.00 | 49.32 | 74.00 | -24.68 | 40.17 | 9.15 | Peak | 100 | 277 |
| 9 | 12110.00 | 41.41 | 54.00 | -12.59 | 27.64 | 13.77 | Average | 100 | 242 |
| 10 | 12110.00 | 54.23 | 74.00 | -19.77 | 40.46 | 13.77 | Peak | 100 | 242 |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3:"*" is Peak / Average value of fundamental frequency

| | | | |
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| Modulation | HT40 | Test Freq. (MHz) | 2422 |
| Polarization | Vertical | | |
| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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| Modulation | HT40 | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal | | |
| <div><div><div>Level (dBUV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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| | | |

| | | | |
|--------------|----------|------------------|------|
| Modulation | HT40 | Test Freq. (MHz) | 2437 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 52.23 | 54.00 | -1.77 | 54.20 | -1.97 | Average | 287 | 143 |
| 2 | 2390.00 | 65.73 | 74.00 | -8.27 | 67.70 | -1.97 | Peak | 287 | 143 |
| 3 * | 2437.00 | 99.10 | | | 100.88 | -1.78 | Average | 287 | 143 |
| 4 * | 2437.00 | 109.37 | | | 111.15 | -1.78 | Peak | 287 | 143 |
| 5 | 2483.50 | 48.64 | 54.00 | -5.36 | 50.26 | -1.62 | Average | 287 | 143 |
| 6 | 2483.50 | 64.40 | 74.00 | -9.60 | 66.02 | -1.62 | Peak | 287 | 143 |
| 7 | 4874.00 | 33.13 | 54.00 | -20.87 | 28.36 | 4.77 | Average | 270 | 176 |
| 8 | 4874.00 | 45.83 | 74.00 | -28.17 | 41.06 | 4.77 | Peak | 270 | 176 |
| 9 | 7311.00 | 37.33 | 54.00 | -16.67 | 28.02 | 9.31 | Average | 100 | 243 |
| 10 | 7311.00 | 49.69 | 74.00 | -24.31 | 40.38 | 9.31 | Peak | 100 | 243 |
| 11 | 12185.00 | 41.86 | 54.00 | -12.14 | 28.19 | 13.67 | Average | 100 | 294 |
| 12 | 12185.00 | 54.16 | 74.00 | -19.84 | 40.49 | 13.67 | Peak | 100 | 294 |

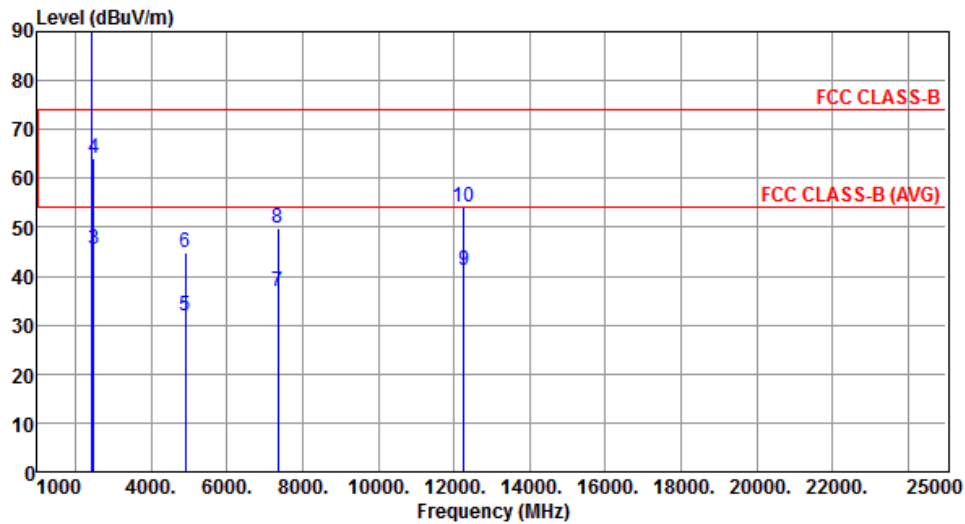
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|------------|------------------|------|
| Modulation | HT40 | Test Freq. (MHz) | 2452 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2452.00 | 89.44 | | | 91.17 | -1.73 | Average | 264 | 150 |
| 2 | * | 2452.00 | 99.04 | | | 100.77 | -1.73 | Peak | 264 | 150 |
| 3 | | 2483.50 | 45.46 | 54.00 | -8.54 | 47.08 | -1.62 | Average | 264 | 150 |
| 4 | | 2483.50 | 64.18 | 74.00 | -9.82 | 65.80 | -1.62 | Peak | 264 | 150 |
| 5 | | 4904.00 | 32.04 | 54.00 | -21.96 | 27.22 | 4.82 | Average | 100 | 57 |
| 6 | | 4904.00 | 44.95 | 74.00 | -29.05 | 40.13 | 4.82 | Peak | 100 | 57 |
| 7 | | 7356.00 | 36.89 | 54.00 | -17.11 | 27.42 | 9.47 | Average | 100 | 292 |
| 8 | | 7356.00 | 49.73 | 74.00 | -24.27 | 40.26 | 9.47 | Peak | 100 | 292 |
| 9 | | 12260.00 | 41.15 | 54.00 | -12.85 | 27.58 | 13.57 | Average | 100 | 245 |
| 10 | | 12260.00 | 54.19 | 74.00 | -19.81 | 40.62 | 13.57 | Peak | 100 | 245 |

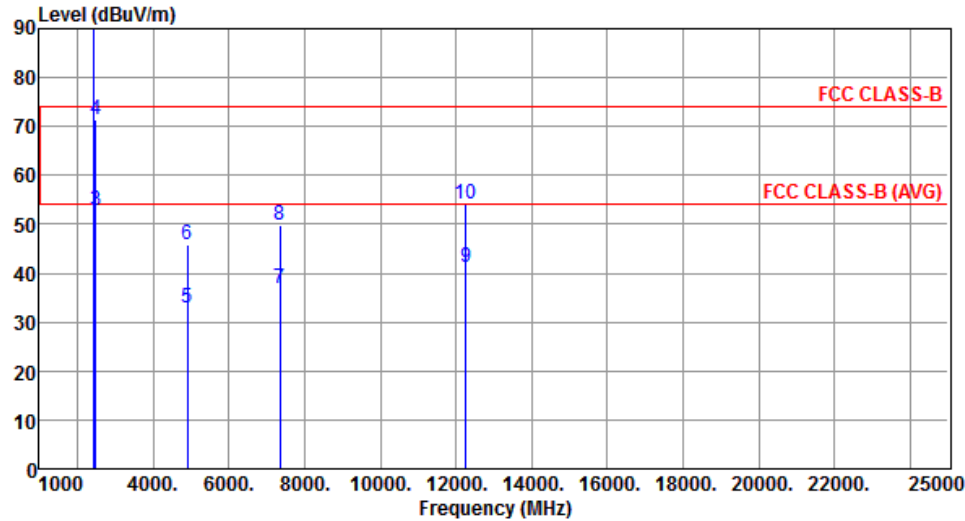
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | HT40 | Test Freq. (MHz) | 2452 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2452.00 | 98.38 | | | 100.11 | -1.73 | Average | 297 | 140 |
| 2 | * | 2452.00 | 108.07 | | | 109.80 | -1.73 | Peak | 297 | 140 |
| 3 | | 2483.50 | 52.86 | 54.00 | -1.14 | 54.48 | -1.62 | Average | 297 | 140 |
| 4 | | 2483.50 | 71.38 | 74.00 | -2.62 | 73.00 | -1.62 | Peak | 297 | 140 |
| 5 | | 4904.00 | 32.74 | 54.00 | -21.26 | 27.92 | 4.82 | Average | 271 | 177 |
| 6 | | 4904.00 | 45.90 | 74.00 | -28.10 | 41.08 | 4.82 | Peak | 271 | 177 |
| 7 | | 7356.00 | 36.93 | 54.00 | -17.07 | 27.46 | 9.47 | Average | 100 | 204 |
| 8 | | 7356.00 | 49.85 | 74.00 | -24.15 | 40.38 | 9.47 | Peak | 100 | 204 |
| 9 | | 12260.00 | 41.12 | 54.00 | -12.88 | 27.55 | 13.57 | Average | 100 | 306 |
| 10 | | 12260.00 | 54.06 | 74.00 | -19.94 | 40.49 | 13.57 | Peak | 100 | 306 |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

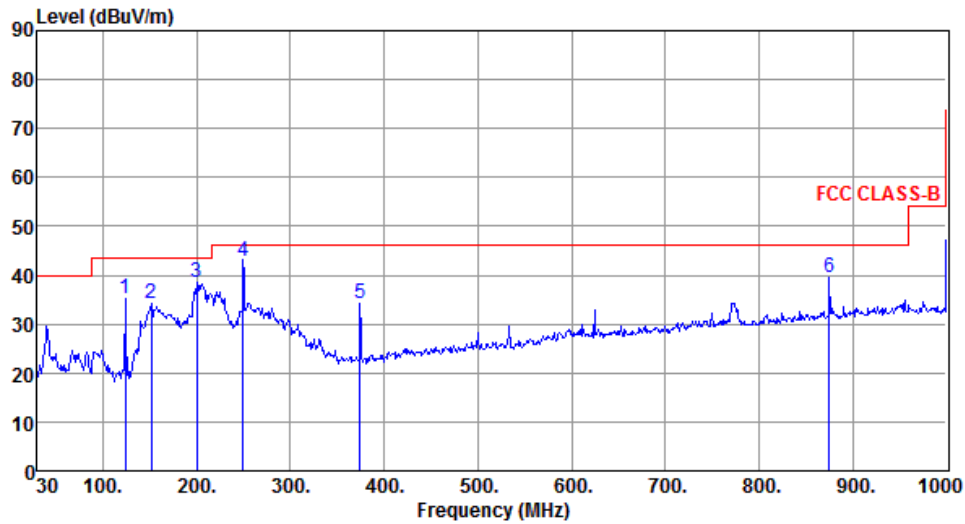
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Beamforming mode

3.2.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

| | | | |
|--------------|------------|--------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal | Test Configuration | 1 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 124.09 | 35.19 | 43.50 | -8.31 | 45.72 | -10.53 | Peak | --- | --- |
| 2 | 151.25 | 34.25 | 43.50 | -9.25 | 42.65 | -8.40 | Peak | --- | --- |
| 3 | 199.75 | 38.63 | 43.50 | -4.87 | 49.74 | -11.11 | Peak | --- | --- |
| 4 | 249.22 | 42.96 | 46.00 | -3.04 | 52.35 | -9.39 | QP | 100 | 115 |
| 5 | 374.35 | 34.15 | 46.00 | -11.85 | 40.21 | -6.06 | Peak | --- | --- |
| 6 | 874.87 | 39.59 | 46.00 | -6.41 | 36.35 | 3.24 | Peak | --- | --- |

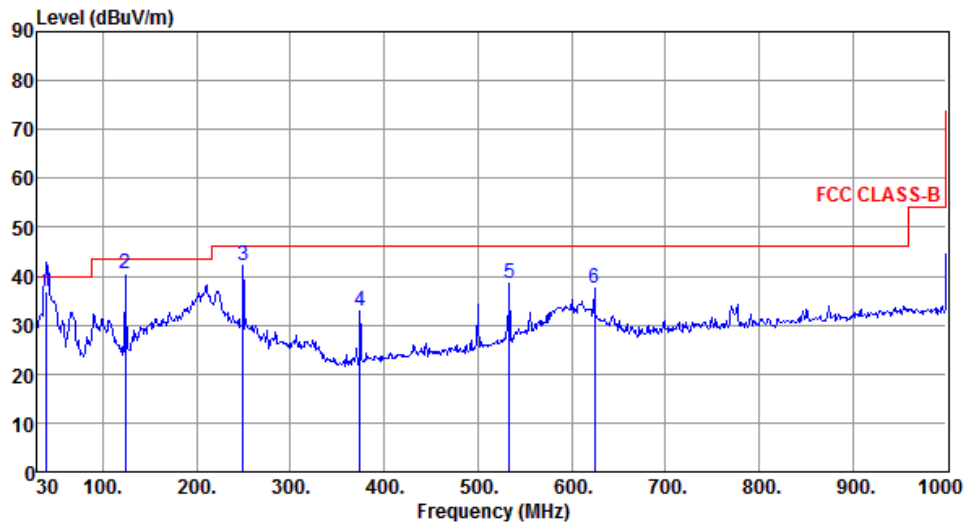
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

| | | | |
|--------------|----------|--------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Polarization | Vertical | Test Configuration | 1 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 39.70 | 36.74 | 40.00 | -3.26 | 45.52 | -8.78 | QP | 100 | 13 |
| 2 | 124.09 | 40.42 | 43.50 | -3.08 | 50.95 | -10.53 | QP | 100 | 92 |
| 3 | 249.22 | 42.34 | 46.00 | -3.66 | 51.73 | -9.39 | Peak | --- | --- |
| 4 | 374.35 | 32.82 | 46.00 | -13.18 | 38.88 | -6.06 | Peak | --- | --- |
| 5 | 533.43 | 38.40 | 46.00 | -7.60 | 41.06 | -2.66 | Peak | --- | --- |
| 6 | 624.61 | 37.42 | 46.00 | -8.58 | 38.13 | -0.71 | Peak | --- | --- |

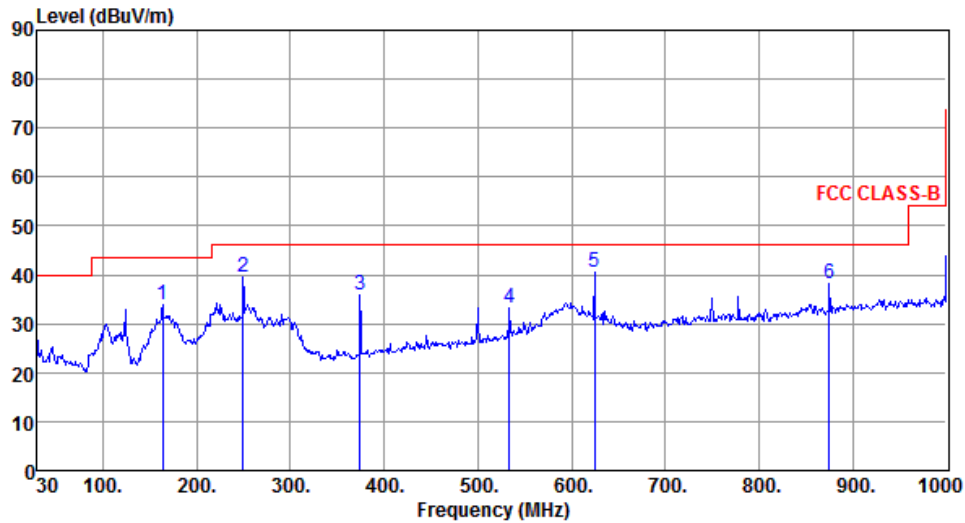
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

| | | | |
|--------------|------------|--------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal | Test Configuration | 2 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 163.86 | 33.87 | 43.50 | -9.63 | 42.26 | -8.39 | Peak | --- | --- |
| 2 | 249.22 | 39.48 | 46.00 | -6.52 | 48.87 | -9.39 | Peak | --- | --- |
| 3 | 374.35 | 35.87 | 46.00 | -10.13 | 41.93 | -6.06 | Peak | --- | --- |
| 4 | 533.43 | 33.36 | 46.00 | -12.64 | 36.02 | -2.66 | Peak | --- | --- |
| 5 | 624.61 | 40.48 | 46.00 | -5.52 | 41.19 | -0.71 | Peak | --- | --- |
| 6 | 874.87 | 38.29 | 46.00 | -7.71 | 35.05 | 3.24 | Peak | --- | --- |

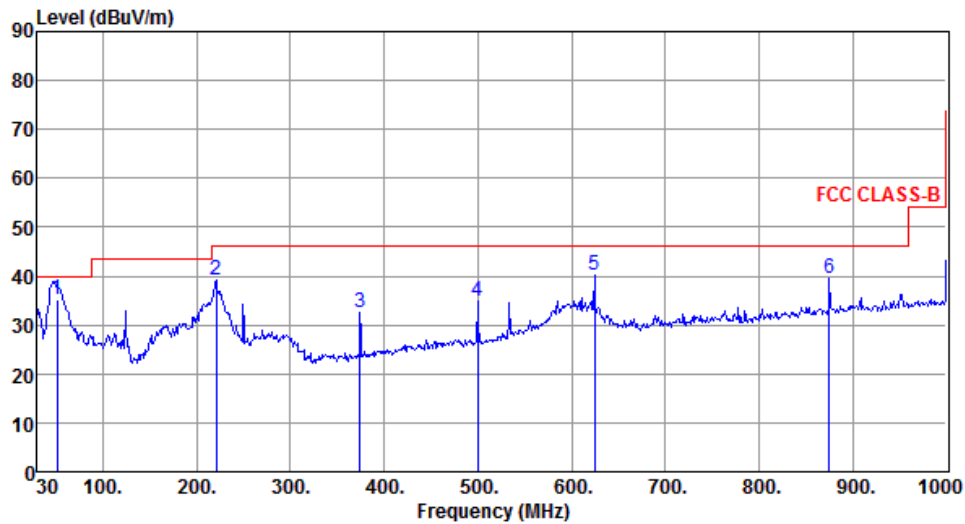
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

| | | | |
|--------------|----------|--------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Polarization | Vertical | Test Configuration | 2 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 51.36 | 35.11 | 40.00 | -4.89 | 43.36 | -8.25 | QP | 100 | 79 |
| 2 | 221.09 | 39.07 | 46.00 | -6.93 | 49.96 | -10.89 | Peak | --- | --- |
| 3 | 374.35 | 32.63 | 46.00 | -13.37 | 38.69 | -6.06 | Peak | --- | --- |
| 4 | 499.48 | 34.74 | 46.00 | -11.26 | 38.10 | -3.36 | Peak | --- | --- |
| 5 | 624.61 | 40.18 | 46.00 | -5.82 | 40.89 | -0.71 | Peak | --- | --- |
| 6 | 874.87 | 39.65 | 46.00 | -6.35 | 36.41 | 3.24 | Peak | --- | --- |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

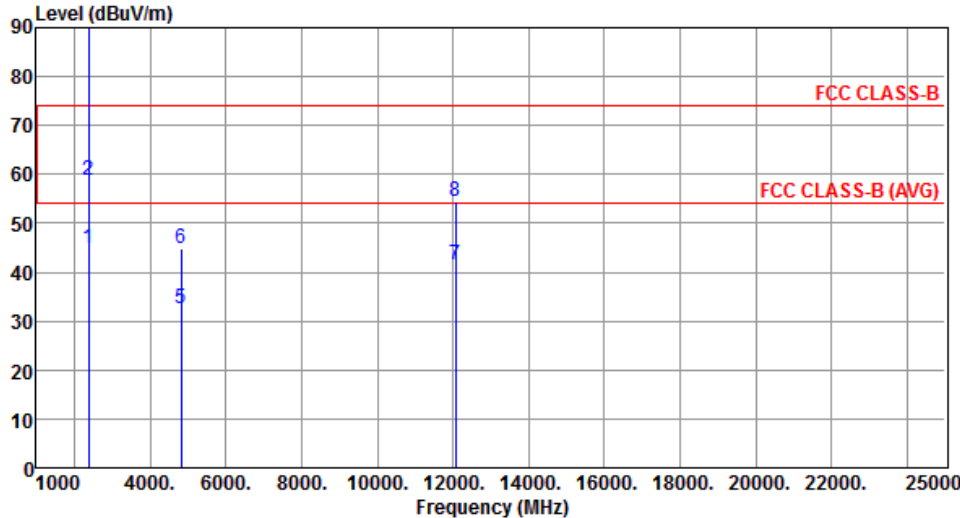
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.2.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

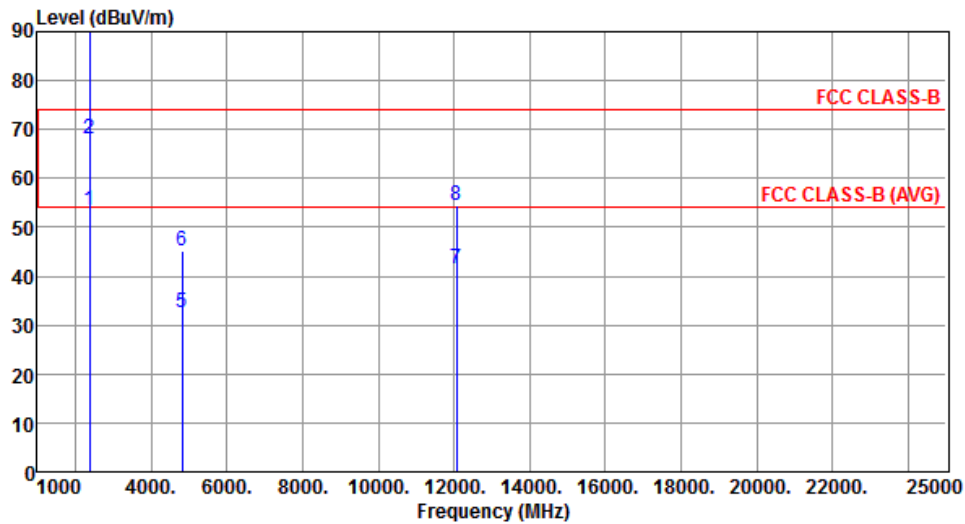
| | | | |
|--------------|------------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2412 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBUV/m | Limit dBUV/m | Margin dB | SA reading dBUV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 44.71 | 54.00 | -9.29 | 46.68 | -1.97 | Average | 167 | 169 |
| 2 | 2390.00 | 58.86 | 74.00 | -15.14 | 60.83 | -1.97 | Peak | 167 | 169 |
| 3 * | 2412.00 | 91.26 | | | 93.14 | -1.88 | Average | 167 | 169 |
| 4 * | 2412.00 | 101.86 | | | 103.74 | -1.88 | Peak | 167 | 169 |
| 5 | 4824.00 | 32.53 | 54.00 | -21.47 | 27.86 | 4.67 | Average | 100 | 53 |
| 6 | 4824.00 | 44.90 | 74.00 | -29.10 | 40.23 | 4.67 | Peak | 100 | 53 |
| 7 | 12060.00 | 41.66 | 54.00 | -12.34 | 27.83 | 13.83 | Average | 100 | 312 |
| 8 | 12060.00 | 54.57 | 74.00 | -19.43 | 40.74 | 13.83 | Peak | 100 | 312 |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
 Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2412 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 53.55 | 54.00 | -0.45 | 55.52 | -1.97 | Average | 365 | 125 |
| 2 | 2390.00 | 68.06 | 74.00 | -5.94 | 70.03 | -1.97 | Peak | 365 | 125 |
| 3 * | 2412.00 | 101.61 | | | 103.49 | -1.88 | Average | 365 | 125 |
| 4 * | 2412.00 | 113.34 | | | 115.22 | -1.88 | Peak | 365 | 125 |
| 5 | 4824.00 | 32.43 | 54.00 | -21.57 | 27.76 | 4.67 | Average | 100 | 175 |
| 6 | 4824.00 | 45.30 | 74.00 | -28.70 | 40.63 | 4.67 | Peak | 100 | 175 |
| 7 | 12060.00 | 41.50 | 54.00 | -12.50 | 27.67 | 13.83 | Average | 100 | 271 |
| 8 | 12060.00 | 54.31 | 74.00 | -19.69 | 40.48 | 13.83 | Peak | 100 | 271 |

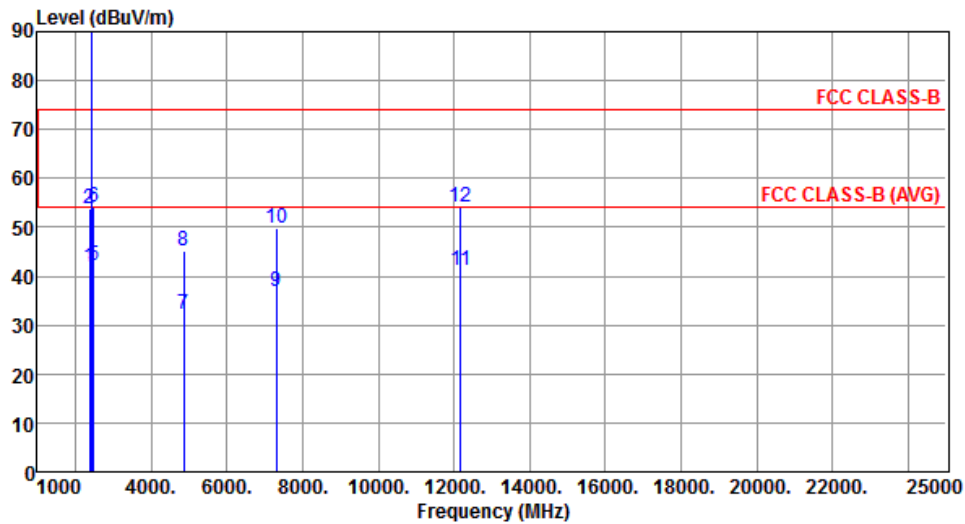
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|------------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 41.85 | 54.00 | -12.15 | 43.82 | -1.97 | Average | 179 | 209 |
| 2 | 2390.00 | 53.74 | 74.00 | -20.26 | 55.71 | -1.97 | Peak | 179 | 209 |
| 3 * | 2437.00 | 95.75 | | | 97.53 | -1.78 | Average | 179 | 209 |
| 4 * | 2437.00 | 106.17 | | | 107.95 | -1.78 | Peak | 179 | 209 |
| 5 | 2483.50 | 42.15 | 54.00 | -11.85 | 43.77 | -1.62 | Average | 179 | 209 |
| 6 | 2483.50 | 54.00 | 74.00 | -20.00 | 55.62 | -1.62 | Peak | 179 | 209 |
| 7 | 4874.00 | 32.33 | 54.00 | -21.67 | 27.56 | 4.77 | Average | 100 | 53 |
| 8 | 4874.00 | 45.12 | 74.00 | -28.88 | 40.35 | 4.77 | Peak | 100 | 53 |
| 9 | 7311.00 | 36.93 | 54.00 | -17.07 | 27.62 | 9.31 | Average | 100 | 312 |
| 10 | 7311.00 | 49.73 | 74.00 | -24.27 | 40.42 | 9.31 | Peak | 100 | 312 |
| 11 | 12185.00 | 41.32 | 54.00 | -12.68 | 27.65 | 13.67 | Average | 100 | 243 |
| 12 | 12185.00 | 54.22 | 74.00 | -19.78 | 40.55 | 13.67 | Peak | 100 | 243 |

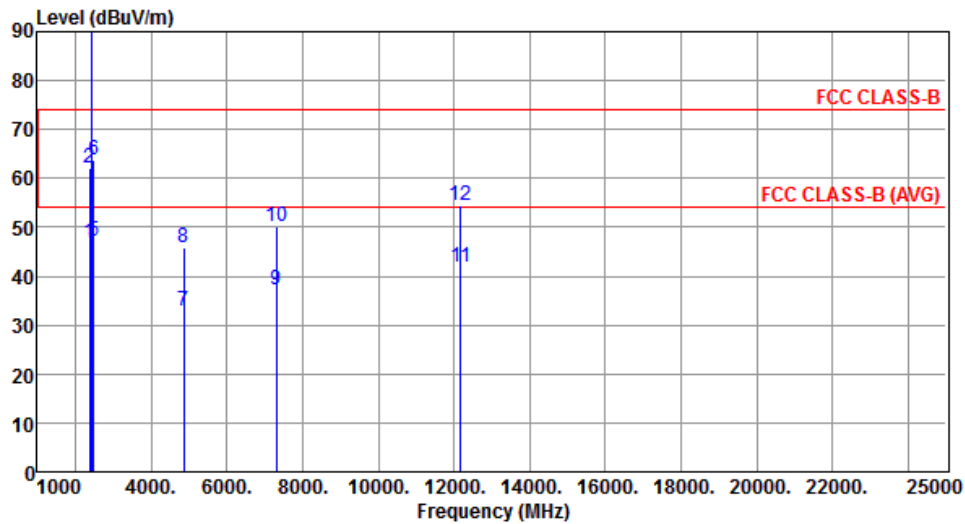
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2437 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 46.71 | 54.00 | -7.29 | 48.68 | -1.97 | Average | 353 | 127 |
| 2 | 2390.00 | 61.96 | 74.00 | -12.04 | 63.93 | -1.97 | Peak | 353 | 127 |
| 3 * | 2437.00 | 106.44 | | | 108.22 | -1.78 | Average | 353 | 127 |
| 4 * | 2437.00 | 116.14 | | | 117.92 | -1.78 | Peak | 353 | 127 |
| 5 | 2483.50 | 47.10 | 54.00 | -6.90 | 48.72 | -1.62 | Average | 353 | 127 |
| 6 | 2483.50 | 63.87 | 74.00 | -10.13 | 65.49 | -1.62 | Peak | 353 | 127 |
| 7 | 4874.00 | 33.04 | 54.00 | -20.96 | 28.27 | 4.77 | Average | 100 | 196 |
| 8 | 4874.00 | 45.73 | 74.00 | -28.27 | 40.96 | 4.77 | Peak | 100 | 196 |
| 9 | 7311.00 | 37.17 | 54.00 | -16.83 | 27.86 | 9.31 | Average | 100 | 241 |
| 10 | 7311.00 | 50.06 | 74.00 | -23.94 | 40.75 | 9.31 | Peak | 100 | 241 |
| 11 | 12185.00 | 42.01 | 54.00 | -11.99 | 28.34 | 13.67 | Average | 162 | 241 |
| 12 | 12185.00 | 54.40 | 74.00 | -19.60 | 40.73 | 13.67 | Peak | 162 | 241 |

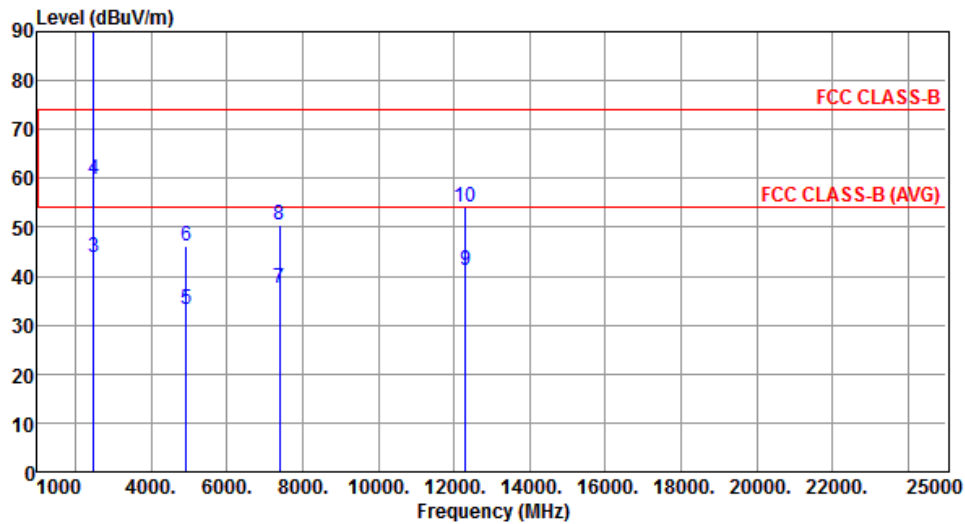
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|------------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2462 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2462.00 | 93.60 | | | 95.29 | -1.69 | Average | 210 | 91 |
| 2 | * | 2462.00 | 104.61 | | | 106.30 | -1.69 | Peak | 210 | 91 |
| 3 | | 2483.50 | 44.00 | 54.00 | -10.00 | 45.62 | -1.62 | Average | 210 | 91 |
| 4 | | 2483.50 | 59.82 | 74.00 | -14.18 | 61.44 | -1.62 | Peak | 210 | 91 |
| 5 | | 4924.00 | 33.14 | 54.00 | -20.86 | 28.28 | 4.86 | Average | 100 | 156 |
| 6 | | 4924.00 | 46.17 | 74.00 | -27.83 | 41.31 | 4.86 | Peak | 100 | 156 |
| 7 | | 7386.00 | 37.40 | 54.00 | -16.60 | 27.82 | 9.58 | Average | 100 | 137 |
| 8 | | 7386.00 | 50.63 | 74.00 | -23.37 | 41.05 | 9.58 | Peak | 100 | 137 |
| 9 | | 12310.00 | 41.06 | 54.00 | -12.94 | 27.56 | 13.50 | Average | 100 | 148 |
| 10 | | 12310.00 | 54.18 | 74.00 | -19.82 | 40.68 | 13.50 | Peak | 100 | 148 |

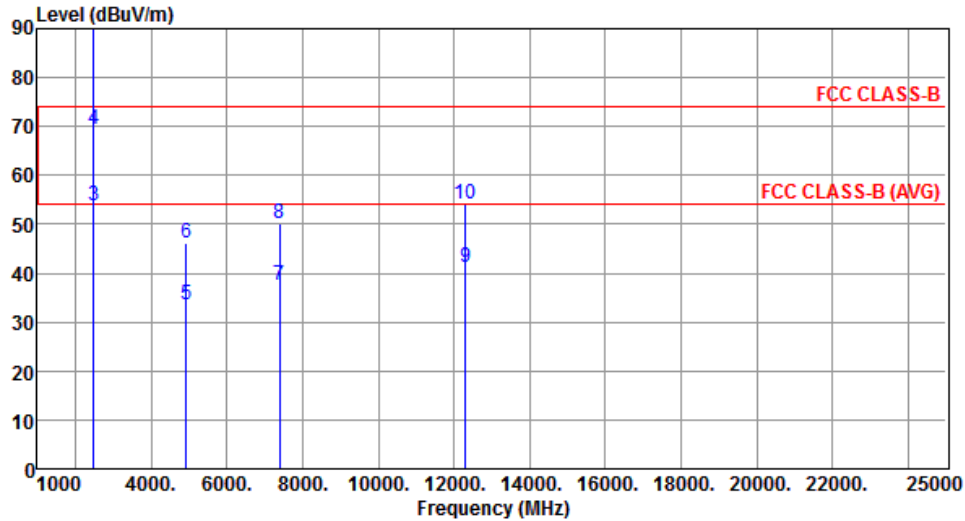
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | HT20 | Test Freq. (MHz) | 2462 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2462.00 | 103.42 | | | 105.11 | -1.69 | Average | 347 | 149 |
| 2 | * | 2462.00 | 114.28 | | | 115.97 | -1.69 | Peak | 347 | 149 |
| 3 | | 2483.50 | 53.71 | 54.00 | -0.29 | 55.33 | -1.62 | Average | 347 | 149 |
| 4 | | 2483.50 | 69.57 | 74.00 | -4.43 | 71.19 | -1.62 | Peak | 347 | 149 |
| 5 | | 4924.00 | 33.41 | 54.00 | -20.59 | 28.55 | 4.86 | Average | 100 | 185 |
| 6 | | 4924.00 | 46.31 | 74.00 | -27.69 | 41.45 | 4.86 | Peak | 100 | 185 |
| 7 | | 7386.00 | 37.42 | 54.00 | -16.58 | 27.84 | 9.58 | Average | 100 | 138 |
| 8 | | 7386.00 | 50.13 | 74.00 | -23.87 | 40.55 | 9.58 | Peak | 100 | 138 |
| 9 | | 12310.00 | 41.18 | 54.00 | -12.82 | 27.68 | 13.50 | Average | 100 | 193 |
| 10 | | 12310.00 | 54.05 | 74.00 | -19.95 | 40.55 | 13.50 | Peak | 100 | 193 |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

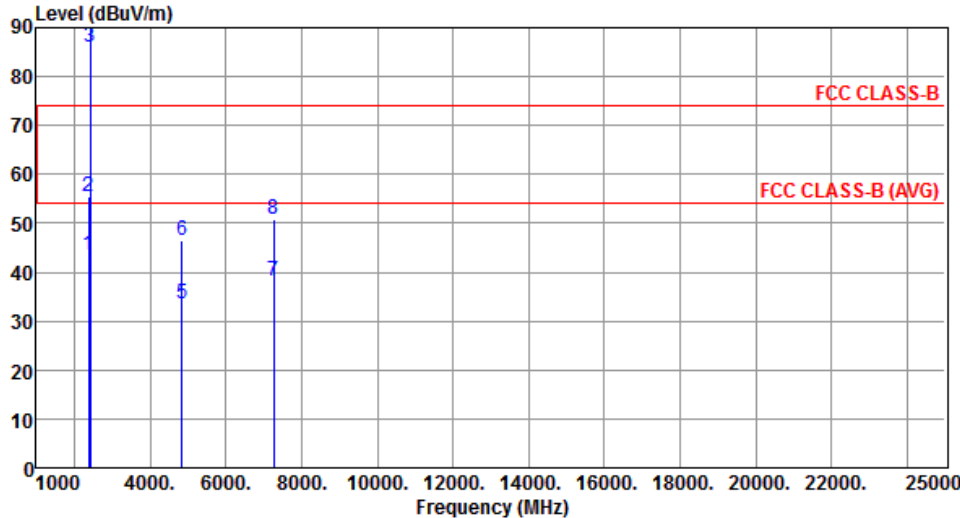
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

3.2.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

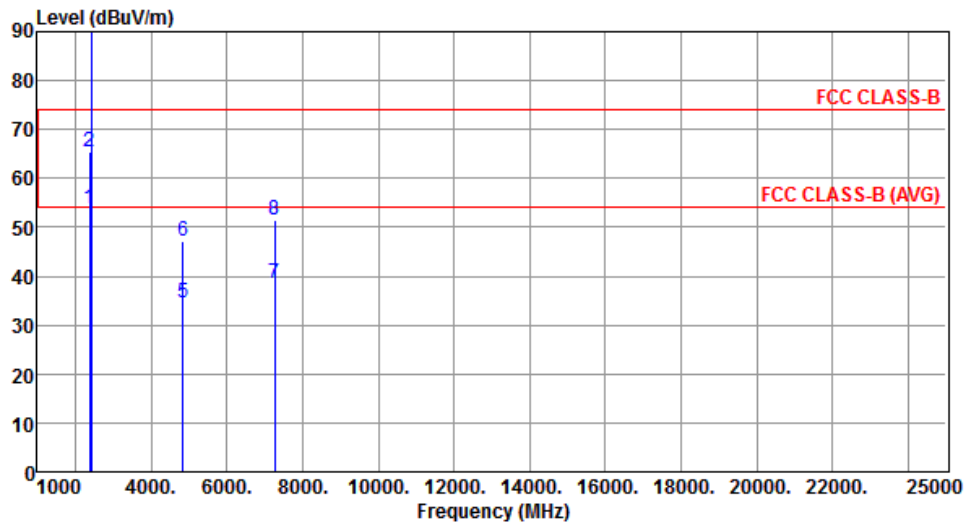
| | | | |
|--------------|------------|------------------|------|
| Modulation | HT40 | Test Freq. (MHz) | 2422 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 43.44 | 54.00 | -10.56 | 45.41 | -1.97 | Average | 192 | 147 |
| 2 | 2390.00 | 55.31 | 74.00 | -18.69 | 57.28 | -1.97 | Peak | 192 | 147 |
| 3 * | 2422.00 | 85.90 | | | 87.74 | -1.84 | Average | 192 | 147 |
| 4 * | 2422.00 | 96.81 | | | 98.65 | -1.84 | Peak | 192 | 147 |
| 5 | 4844.00 | 33.65 | 54.00 | -20.35 | 28.95 | 4.70 | Average | 101 | 44 |
| 6 | 4844.00 | 46.39 | 74.00 | -27.61 | 41.69 | 4.70 | Peak | 101 | 44 |
| 7 | 7266.00 | 38.21 | 54.00 | -15.79 | 29.06 | 9.15 | Average | 101 | 52 |
| 8 | 7266.00 | 50.85 | 74.00 | -23.15 | 41.70 | 9.15 | Peak | 101 | 52 |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
 Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | HT40 | Test Freq. (MHz) | 2422 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBUV/m | Limit dBUV/m | Margin dB | SA reading dBUV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 53.74 | 54.00 | -0.26 | 55.71 | -1.97 | Average | 328 | 142 |
| 2 | 2390.00 | 65.48 | 74.00 | -8.52 | 67.45 | -1.97 | Peak | 328 | 142 |
| 3 * | 2422.00 | 97.74 | | | 99.58 | -1.84 | Average | 328 | 142 |
| 4 * | 2422.00 | 108.57 | | | 110.41 | -1.84 | Peak | 328 | 142 |
| 5 | 4844.00 | 34.65 | 54.00 | -19.35 | 29.95 | 4.70 | Average | 101 | 56 |
| 6 | 4844.00 | 47.14 | 74.00 | -26.86 | 42.44 | 4.70 | Peak | 101 | 56 |
| 7 | 7266.00 | 38.45 | 54.00 | -15.55 | 29.30 | 9.15 | Average | 101 | 41 |
| 8 | 7266.00 | 51.62 | 74.00 | -22.38 | 42.47 | 9.15 | Peak | 101 | 41 |

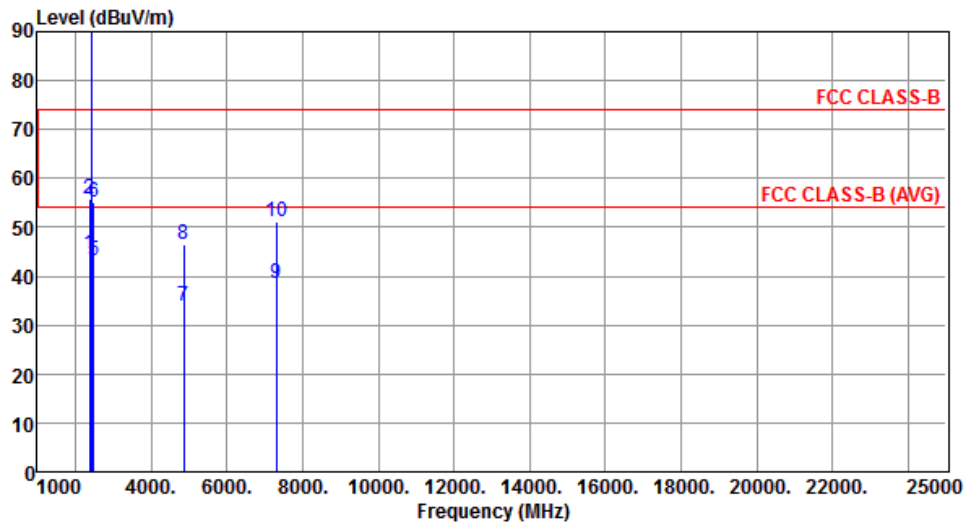
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|------------|------------------|------|
| Modulation | HT40 | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 44.36 | 54.00 | -9.64 | 46.33 | -1.97 | Average | 192 | 145 |
| 2 | 2390.00 | 55.92 | 74.00 | -18.08 | 57.89 | -1.97 | Peak | 192 | 145 |
| 3 * | 2437.00 | 89.24 | | | 91.02 | -1.78 | Average | 192 | 145 |
| 4 * | 2437.00 | 99.95 | | | 101.73 | -1.78 | Peak | 192 | 145 |
| 5 | 2483.50 | 43.25 | 54.00 | -10.75 | 44.87 | -1.62 | Average | 192 | 145 |
| 6 | 2483.50 | 55.08 | 74.00 | -18.92 | 56.70 | -1.62 | Peak | 192 | 145 |
| 7 | 4874.00 | 33.92 | 54.00 | -20.08 | 29.15 | 4.77 | Average | 101 | 58 |
| 8 | 4874.00 | 46.55 | 74.00 | -27.45 | 41.78 | 4.77 | Peak | 101 | 58 |
| 9 | 7311.00 | 38.42 | 54.00 | -15.58 | 29.11 | 9.31 | Average | 101 | 61 |
| 10 | 7311.00 | 50.98 | 74.00 | -23.02 | 41.67 | 9.31 | Peak | 101 | 61 |

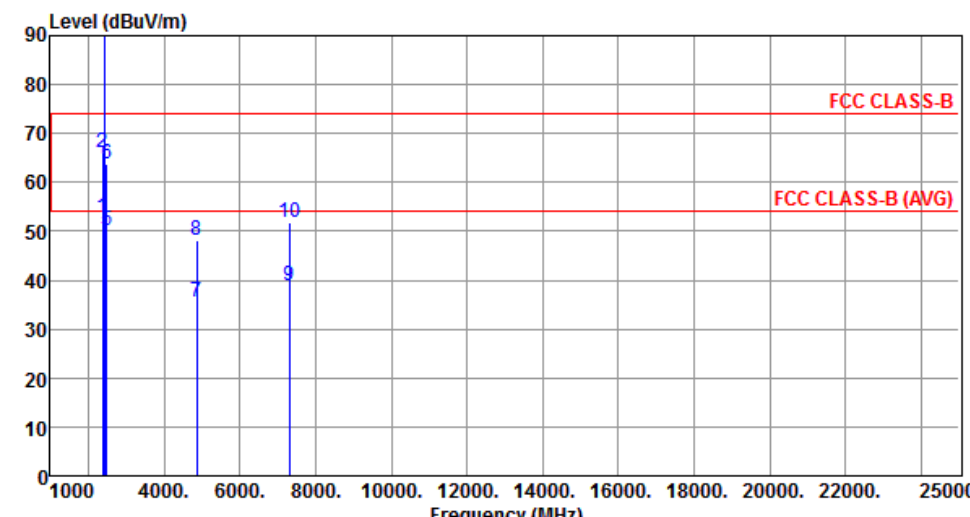
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | HT40 | Test Freq. (MHz) | 2437 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00 | 52.96 | 54.00 | -1.04 | 54.93 | -1.97 | Average | 328 | 142 |
| 2 | 2390.00 | 66.18 | 74.00 | -7.82 | 68.15 | -1.97 | Peak | 328 | 142 |
| 3 * | 2437.00 | 100.86 | | | 102.64 | -1.78 | Average | 328 | 143 |
| 4 * | 2437.00 | 112.49 | | | 114.27 | -1.78 | Peak | 328 | 143 |
| 5 | 2483.50 | 50.06 | 54.00 | -3.94 | 51.68 | -1.62 | Average | 328 | 142 |
| 6 | 2483.50 | 63.77 | 74.00 | -10.23 | 65.39 | -1.62 | Peak | 328 | 142 |
| 7 | 4874.00 | 35.68 | 54.00 | -18.32 | 30.91 | 4.77 | Average | 101 | 52 |
| 8 | 4874.00 | 48.22 | 74.00 | -25.78 | 43.45 | 4.77 | Peak | 101 | 52 |
| 9 | 7311.00 | 38.96 | 54.00 | -15.04 | 29.65 | 9.31 | Average | 101 | 45 |
| 10 | 7311.00 | 51.84 | 74.00 | -22.16 | 42.53 | 9.31 | Peak | 101 | 45 |

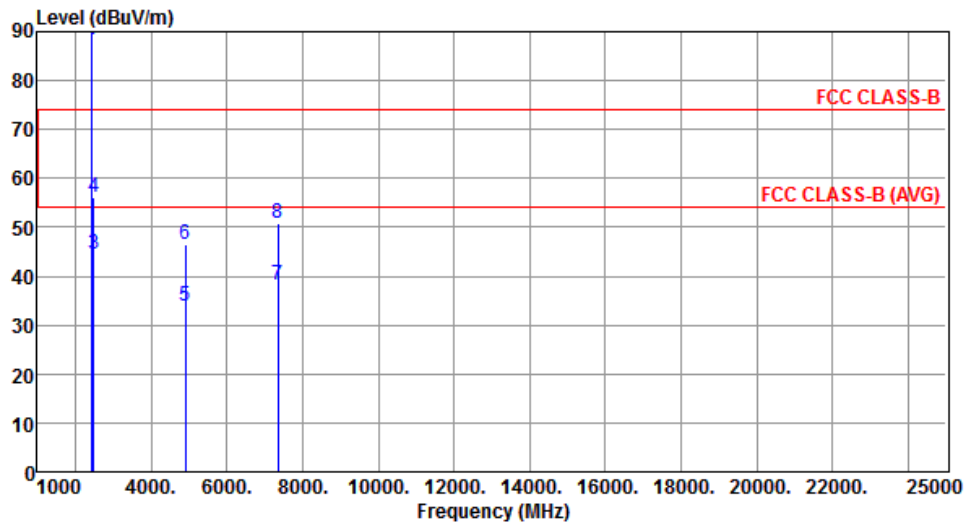
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|------------|------------------|------|
| Modulation | HT40 | Test Freq. (MHz) | 2452 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2452.00 | 88.36 | | | 90.09 | -1.73 | Average | 192 | 149 |
| 2 | * | 2452.00 | 99.04 | | | 100.77 | -1.73 | Peak | 192 | 149 |
| 3 | | 2483.50 | 44.52 | 54.00 | -9.48 | 46.14 | -1.62 | Average | 192 | 149 |
| 4 | | 2483.50 | 56.19 | 74.00 | -17.81 | 57.81 | -1.62 | Peak | 192 | 149 |
| 5 | | 4904.00 | 33.81 | 54.00 | -20.19 | 28.99 | 4.82 | Average | 101 | 61 |
| 6 | | 4904.00 | 46.34 | 74.00 | -27.66 | 41.52 | 4.82 | Peak | 101 | 61 |
| 7 | | 7356.00 | 38.26 | 54.00 | -15.74 | 28.79 | 9.47 | Average | 100 | 59 |
| 8 | | 7356.00 | 50.65 | 74.00 | -23.35 | 41.18 | 9.47 | Peak | 100 | 59 |

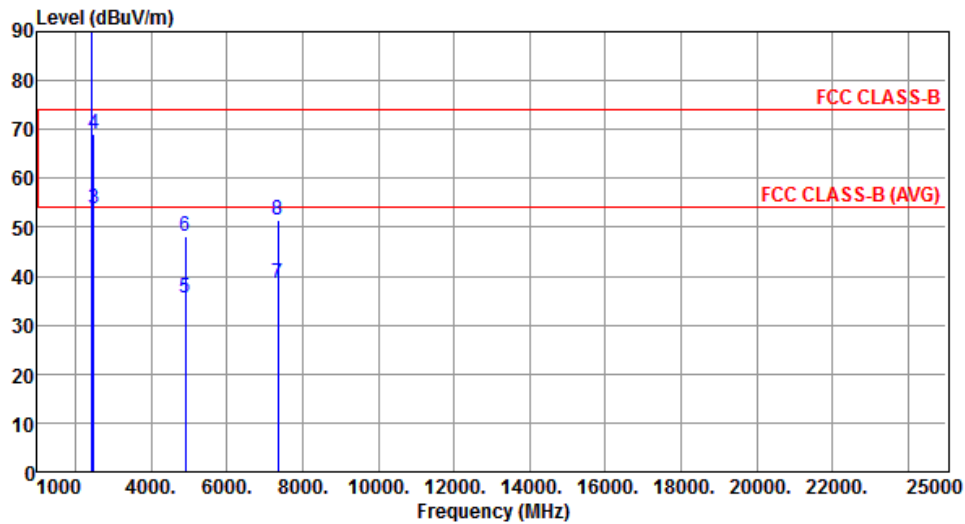
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|--------------|----------|------------------|------|
| Modulation | HT40 | Test Freq. (MHz) | 2452 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 2452.00 | 99.86 | | | 101.59 | -1.73 | Average | 303 | 146 |
| 2 | * | 2452.00 | 111.83 | | | 113.56 | -1.73 | Peak | 303 | 146 |
| 3 | | 2483.50 | 53.85 | 54.00 | -0.15 | 55.47 | -1.62 | Average | 303 | 146 |
| 4 | | 2483.50 | 69.21 | 74.00 | -4.79 | 70.83 | -1.62 | Peak | 303 | 146 |
| 5 | | 4904.00 | 35.56 | 54.00 | -18.44 | 30.74 | 4.82 | Average | 101 | 44 |
| 6 | | 4904.00 | 48.03 | 74.00 | -25.97 | 43.21 | 4.82 | Peak | 101 | 44 |
| 7 | | 7356.00 | 38.65 | 54.00 | -15.35 | 29.18 | 9.47 | Average | 100 | 49 |
| 8 | | 7356.00 | 51.52 | 74.00 | -22.48 | 42.05 | 9.47 | Peak | 100 | 49 |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin
Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

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