

# FCC Test Report

**FCC ID** : NKR-DNUA134  
**Equipment** : 802.11n a/b/g USB dongle  
**Model No.** : DNUA-134  
**Brand Name** : WNC  
**Applicant** : Wistron Neweb Corporation  
**Address** : 20 Park Avenue II, Hsinchu Science Park,  
Hsinchu 308, Taiwan, R.O.C.  
**Standard** : 47 CFR FCC Part 15.247  
**Received Date** : Aug. 02, 2013  
**Tested Date** : Dec. 08 ~ Dec. 10, 2013

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.

Approved & Reviewed by:



Gary Chang / Manager



## Table of Contents

<b>1</b>	<b>GENERAL DESCRIPTION .....</b>	<b>5</b>
1.1	Information.....	5
1.2	Local Support Equipment List .....	7
1.3	Test Setup Chart .....	7
1.4	The Equipment List .....	8
1.5	Test Standards .....	9
1.6	Measurement Uncertainty .....	9
<b>2</b>	<b>TEST CONFIGURATION.....</b>	<b>10</b>
2.1	Testing Condition .....	10
2.2	The Worst Test Modes and Channel Details .....	10
<b>3</b>	<b>TRANSMITTER TEST RESULTS.....</b>	<b>11</b>
3.1	Conducted Emissions.....	11
3.2	Unwanted Emissions into Restricted Frequency Bands .....	14
<b>4</b>	<b>TEST LABORATORY INFORMATION .....</b>	<b>34</b>

## Release Record

Report No.	Version	Description	Issued Date
FR380201-02AI	Rev. 01	Initial issue	Jan. 20, 2014

## Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.151MHz 45.21 (Margin -10.75dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]:11490.00MHz 51.54 (Margin -2.46dB) - AV	Pass

## 1 General Description

### 1.1 Information

This report is prepared for FCC class II permissive change. No hardware and software is change for the device. The difference compared with original design is adding plastics housing to change type from modular to non-modular then also modifying product name for the type change. In this report, conducted emission and radiated emission tests had been re-tested and only its data was recorded in the following sections.

#### 1.1.1 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 <sub>TX</sub> )	Data Rate / MCS
5725-5850	a	5745-5825	149-165 [5]	2	6-54 Mbps
5725-5850	n (HT20)	5745-5825	149-165 [5]	2	MCS 0-15
5725-5850	n (HT40)	5755-5795	151-159 [2]	2	MCS 0-15

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.  
 Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

#### 1.1.2 Antenna Details

Ant. No.	Type	Operating Frequency (MHz) / Gain (dBi)				Connector
		5150~5250	5250~5350	5470~5725	5725~5850	
1	Printed	2.55	3.12	3.22	2.51	U.FL
2	Printed	2.44	2.23	2.98	3.06	U.FL

#### 1.1.3 EUT Operational Condition

Power Supply Type	5Vdc from Host
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#### 1.1.4 Accessories

N/A

### 1.1.5 Channel List

Frequency band (MHz)		5725~5850	
802.11 a / HT20		802.11n HT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	151	5755
153	5765	159	5795
157	5785	---	---
161	5805	---	---
165	5825	---	---

### 1.1.6 Test Tool and Duty Cycle

Test Tool	ART2-GUI V2.3		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11a	98.60%	0.06
	HT20	98.87%	0.05
	HT40	98.19%	0.08

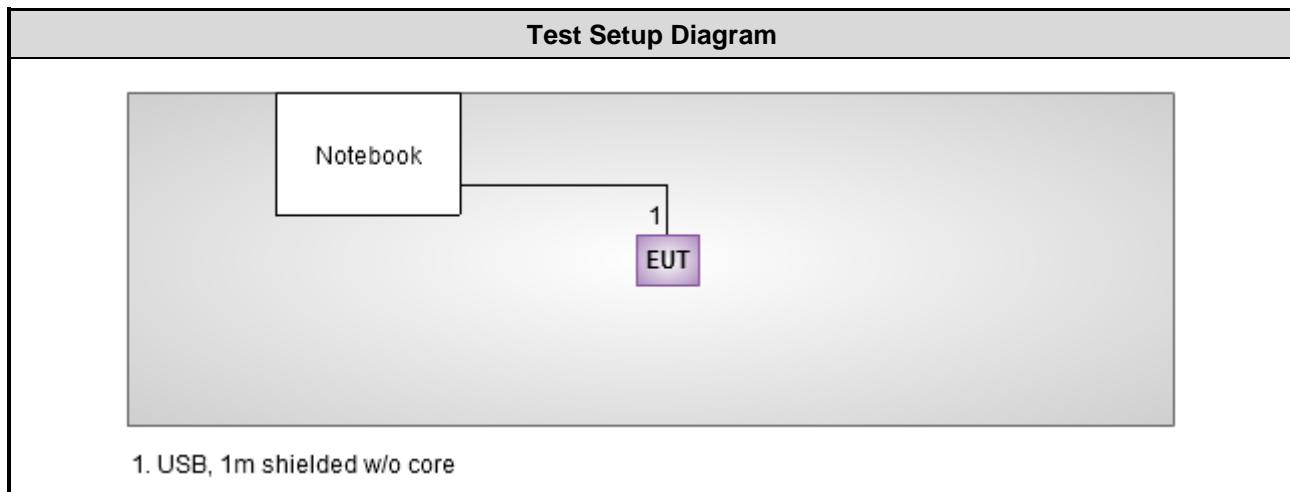
### 1.1.7 Power Setting

Modulation Mode	Test Frequency (MHz)	Power Set
11a	5745	21.5
11a	5785	21.5
11a	5825	21.5
HT20	5745	21.5
HT20	5785	21.5
HT20	5825	21.5
HT40	5755	19
HT40	5795	21

### 1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	E6430	---	DoC	USB 1m shielded cable w/o core.

### 1.3 Test Setup Chart



## 1.4 The Equipment List

<b>Test Item</b>	Radiated Emission				
<b>Test Site</b>	966 chamber 2 / (03CH02-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Jan. 28, 2013	Jan. 27, 2014
Receiver	R&S	ESR3	101657	Jan. 30, 2013	Jan. 29, 2014
Bilog Antenna	Schwarzbeck	VULB9168	VULB9168-524	Jan. 11, 2013	Jan. 10, 2014
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1095	Jan. 29, 2013	Jan. 28, 2014
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014
Amplifier	Burgeon	BPA-530	100218	Dec. 09, 2013	Dec. 08, 2014
Amplifier	Agilent	83017A	MY39501309	Dec. 09, 2013	Dec. 08, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-003	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-004	Dec. 25, 2012	Dec. 24, 2013
control	EM Electronics	EM1000	060608	N/A	N/A

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

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Amplifier	EM	EM18G40G	060572	Jun. 20, 2013	Jun. 19, 2015
Note: Calibration Interval of instruments listed above is two year.					

<b>Test Item</b>	Conducted Emission				
<b>Test Site</b>	Conduction room 1 / (CO01-WS)				
<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
EMC Receiver	R&S	ESCS 30	100169	Oct. 15, 2013	Oct. 14, 2014
LISN	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-666	Dec. 04, 2013	Dec. 03, 2014
ISN	TESEQ	ISN T800	34406	Apr. 08, 2013	Apr. 07, 2014
ISN	TESEQ	ISN T200A	30494	Apr. 09, 2013	Apr. 08, 2014
ISN	TESEQ	ISN ST08	22589	Jan. 24, 2013	Jan. 23, 2014
RF Current Probe	FCC	F-33-4	121630	Nov. 29, 2013	Nov. 28, 2014
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Apr. 24, 2013	Apr. 23, 2014
ESH3-Z6 V-Network(+)	R&S	ESH3-Z6	100920	Nov. 29, 2013	Nov. 28, 2014
ESH3-Z6 V-Network(-)	R&S	ESH3-Z6	100951	Jan. 30, 2013	Jan. 29, 2014
Two-Line V-Network	R&S	ENV216	101579	Jan. 07, 2013	Jan. 06, 2014
50 ohm terminal	NA	50	01	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal	NA	50	02	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal	NA	50	03	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal (Support Unit)	NA	50	04	Apr. 22, 2013	Apr. 21, 2014

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 C63.10-2009

FCC KDB 558074 D01 DTS Meas Guidance v03r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

## 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
AC conducted emission	±2.43 dB
Radiated emission	±2.49 dB

## 2 Test Configuration

### 2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	20°C / 61%	Skys Huang
Radiated Emissions	03CH02-WS	20°C / 64%	Anderson Hong

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-2

### 2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data rate (Mbps) / MCS	Test Configuration
Conducted Emissions	11a	5745	MCS 0	---
Radiated Emissions (below 1GHz)	11a	5745	MCS 0	---
Radiated Emissions (above 1GHz)	11a HT20 HT40	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795	6 Mbps MCS 0 MCS 0	---

**NOTE:**

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.

## 3 Transmitter Test Results

### 3.1 Conducted Emissions

#### 3.1.1 Limit of Conducted Emissions

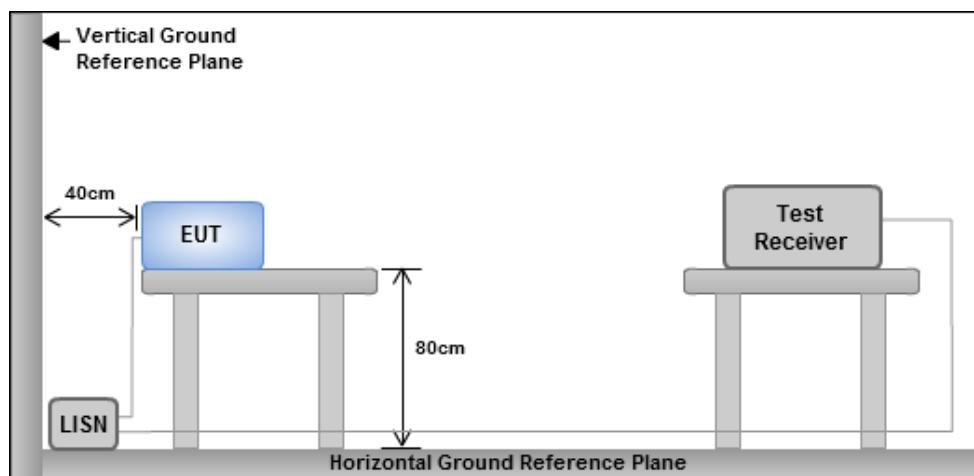
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

#### 3.1.2 Test Procedures

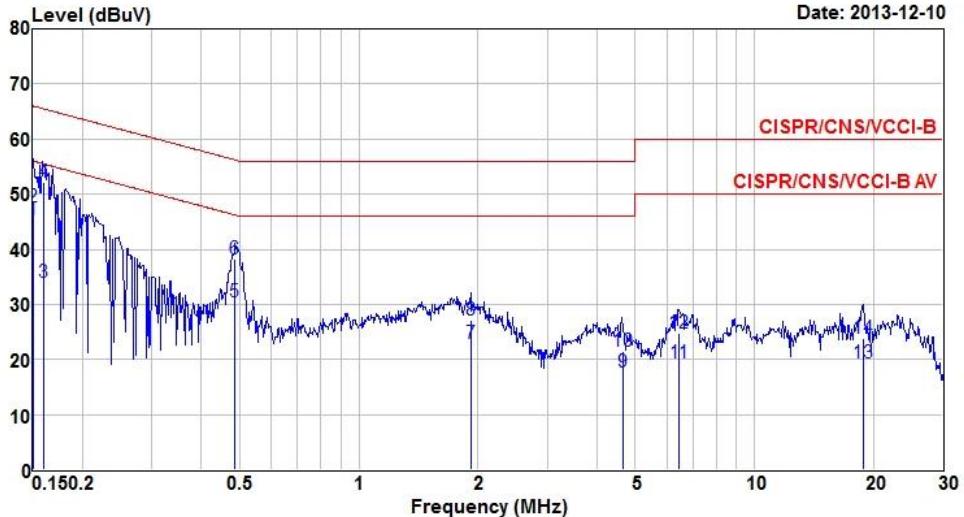
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels 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.

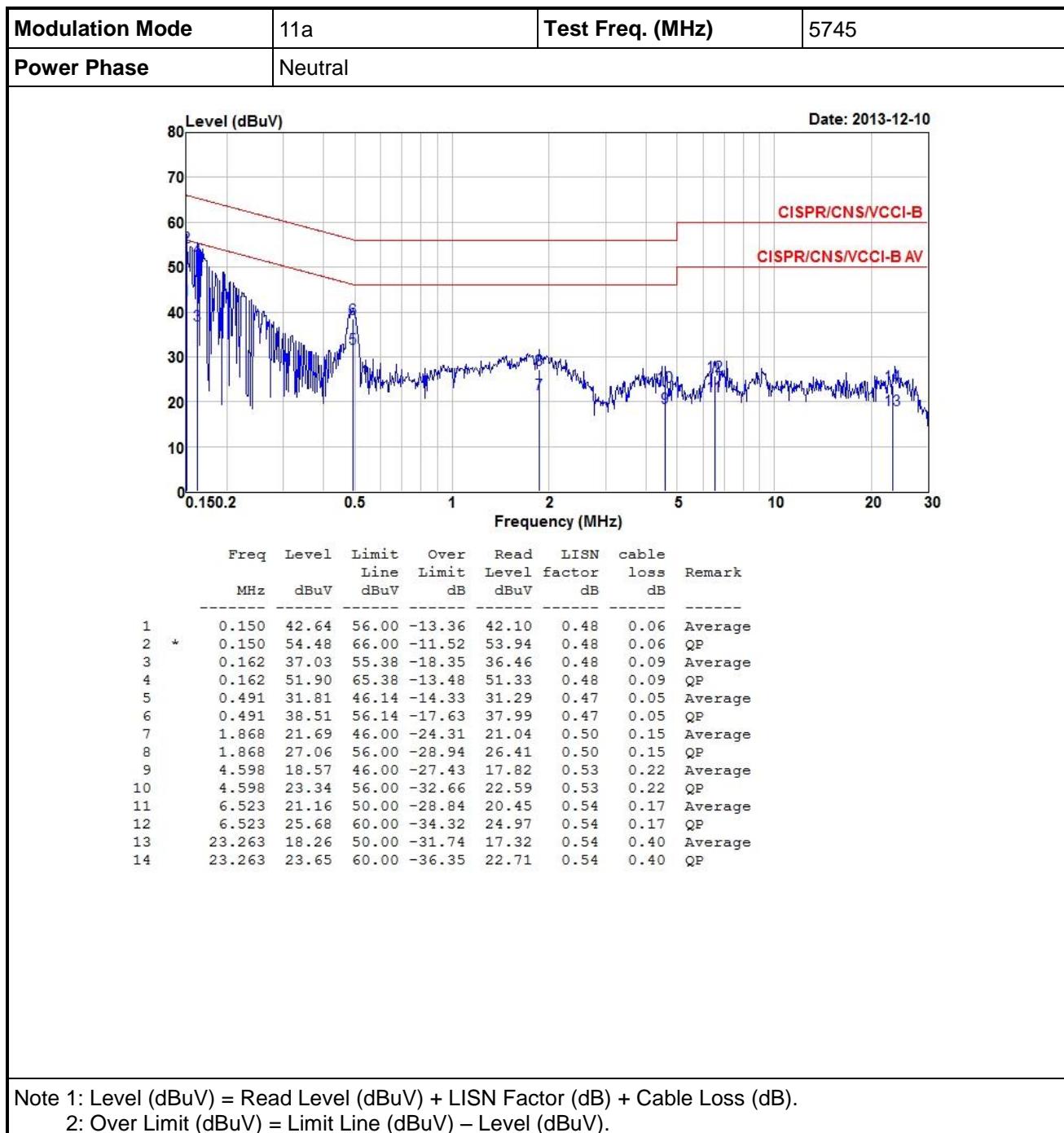
#### 3.1.3 Test Setup



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

Modulation Mode	11a	Test Freq. (MHz)	5745																																																																																																																																
Power Phase	Line																																																																																																																																		
																																																																																																																																			
<table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>LISN</th> <th>cable</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>factor</th> <th>loss</th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>0.151</td><td>45.21</td><td>55.96</td><td>-10.75</td><td>44.75</td><td>0.40</td><td>0.06 Average</td></tr> <tr><td>2</td><td>0.151</td><td>47.59</td><td>65.96</td><td>-18.37</td><td>47.13</td><td>0.40</td><td>0.06 QP</td></tr> <tr><td>3</td><td>0.160</td><td>33.99</td><td>55.47</td><td>-21.48</td><td>33.50</td><td>0.40</td><td>0.09 Average</td></tr> <tr><td>4</td><td>0.160</td><td>52.13</td><td>65.47</td><td>-13.34</td><td>51.64</td><td>0.40</td><td>0.09 QP</td></tr> <tr><td>5</td><td>0.486</td><td>30.54</td><td>46.23</td><td>-15.69</td><td>30.10</td><td>0.39</td><td>0.05 Average</td></tr> <tr><td>6</td><td>0.486</td><td>38.29</td><td>56.23</td><td>-17.94</td><td>37.85</td><td>0.39</td><td>0.05 QP</td></tr> <tr><td>7</td><td>1.918</td><td>22.92</td><td>46.00</td><td>-23.08</td><td>22.34</td><td>0.43</td><td>0.15 Average</td></tr> <tr><td>8</td><td>1.918</td><td>27.09</td><td>56.00</td><td>-28.91</td><td>26.51</td><td>0.43</td><td>0.15 QP</td></tr> <tr><td>9</td><td>4.672</td><td>17.60</td><td>46.00</td><td>-28.40</td><td>16.91</td><td>0.47</td><td>0.22 Average</td></tr> <tr><td>10</td><td>4.672</td><td>21.39</td><td>56.00</td><td>-34.61</td><td>20.70</td><td>0.47</td><td>0.22 QP</td></tr> <tr><td>11</td><td>6.454</td><td>19.38</td><td>50.00</td><td>-30.62</td><td>18.71</td><td>0.50</td><td>0.17 Average</td></tr> <tr><td>12</td><td>6.454</td><td>24.88</td><td>60.00</td><td>-35.12</td><td>24.21</td><td>0.50</td><td>0.17 QP</td></tr> <tr><td>13</td><td>18.920</td><td>19.27</td><td>50.00</td><td>-30.73</td><td>18.54</td><td>0.55</td><td>0.18 Average</td></tr> <tr><td>14</td><td>18.920</td><td>23.93</td><td>60.00</td><td>-36.07</td><td>23.20</td><td>0.55</td><td>0.18 QP</td></tr> </tbody> </table>				Freq	Level	Limit	Over	Read	LISN	cable	Remark	MHz	dBuV	Line	Limit	Level	factor	loss		1	0.151	45.21	55.96	-10.75	44.75	0.40	0.06 Average	2	0.151	47.59	65.96	-18.37	47.13	0.40	0.06 QP	3	0.160	33.99	55.47	-21.48	33.50	0.40	0.09 Average	4	0.160	52.13	65.47	-13.34	51.64	0.40	0.09 QP	5	0.486	30.54	46.23	-15.69	30.10	0.39	0.05 Average	6	0.486	38.29	56.23	-17.94	37.85	0.39	0.05 QP	7	1.918	22.92	46.00	-23.08	22.34	0.43	0.15 Average	8	1.918	27.09	56.00	-28.91	26.51	0.43	0.15 QP	9	4.672	17.60	46.00	-28.40	16.91	0.47	0.22 Average	10	4.672	21.39	56.00	-34.61	20.70	0.47	0.22 QP	11	6.454	19.38	50.00	-30.62	18.71	0.50	0.17 Average	12	6.454	24.88	60.00	-35.12	24.21	0.50	0.17 QP	13	18.920	19.27	50.00	-30.73	18.54	0.55	0.18 Average	14	18.920	23.93	60.00	-36.07	23.20	0.55	0.18 QP
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Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB). Note 2: Over Limit (dBuV) = Limit Line (dBuV) – Level (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:**  
Quasi-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

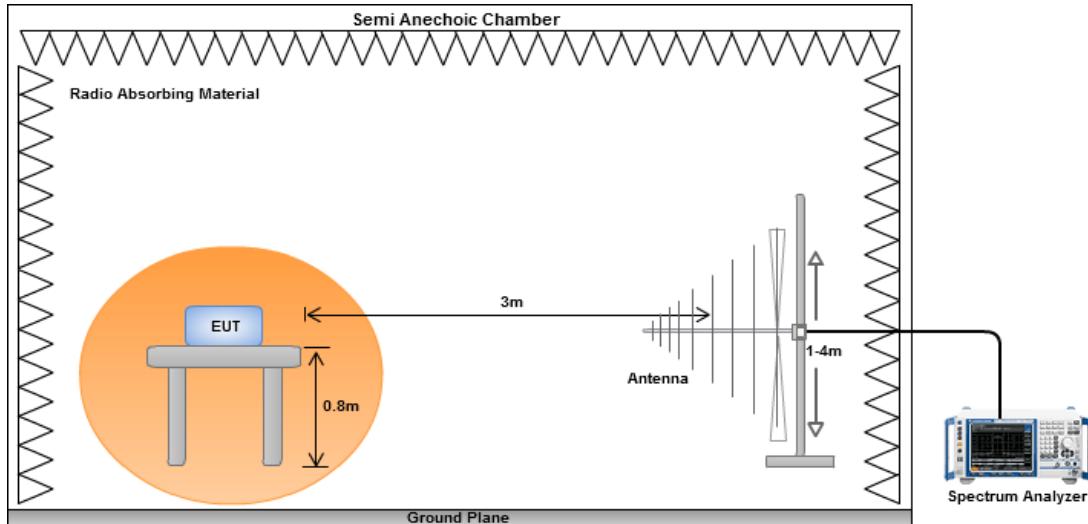
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
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:

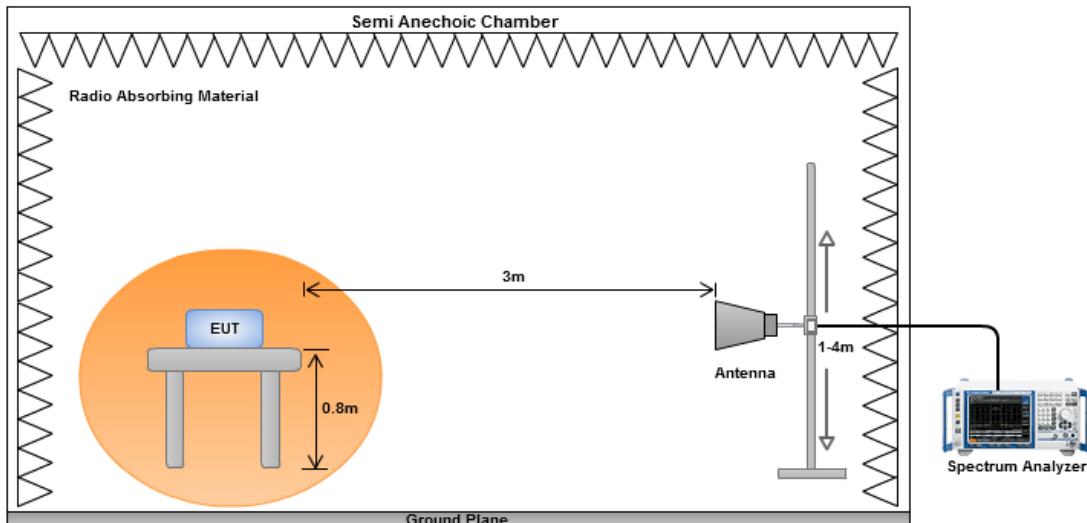
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

### 3.2.3 Test Setup

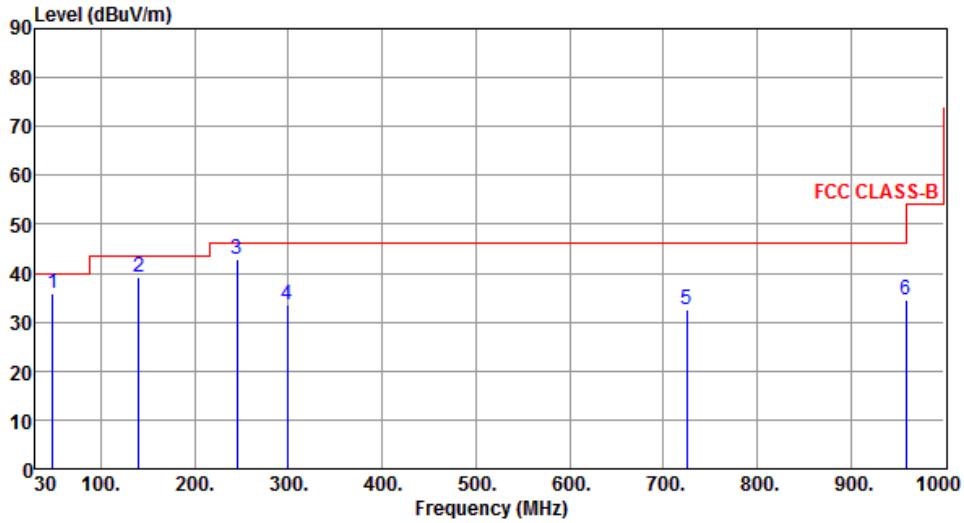
#### Radiated Emissions below 1 GHz

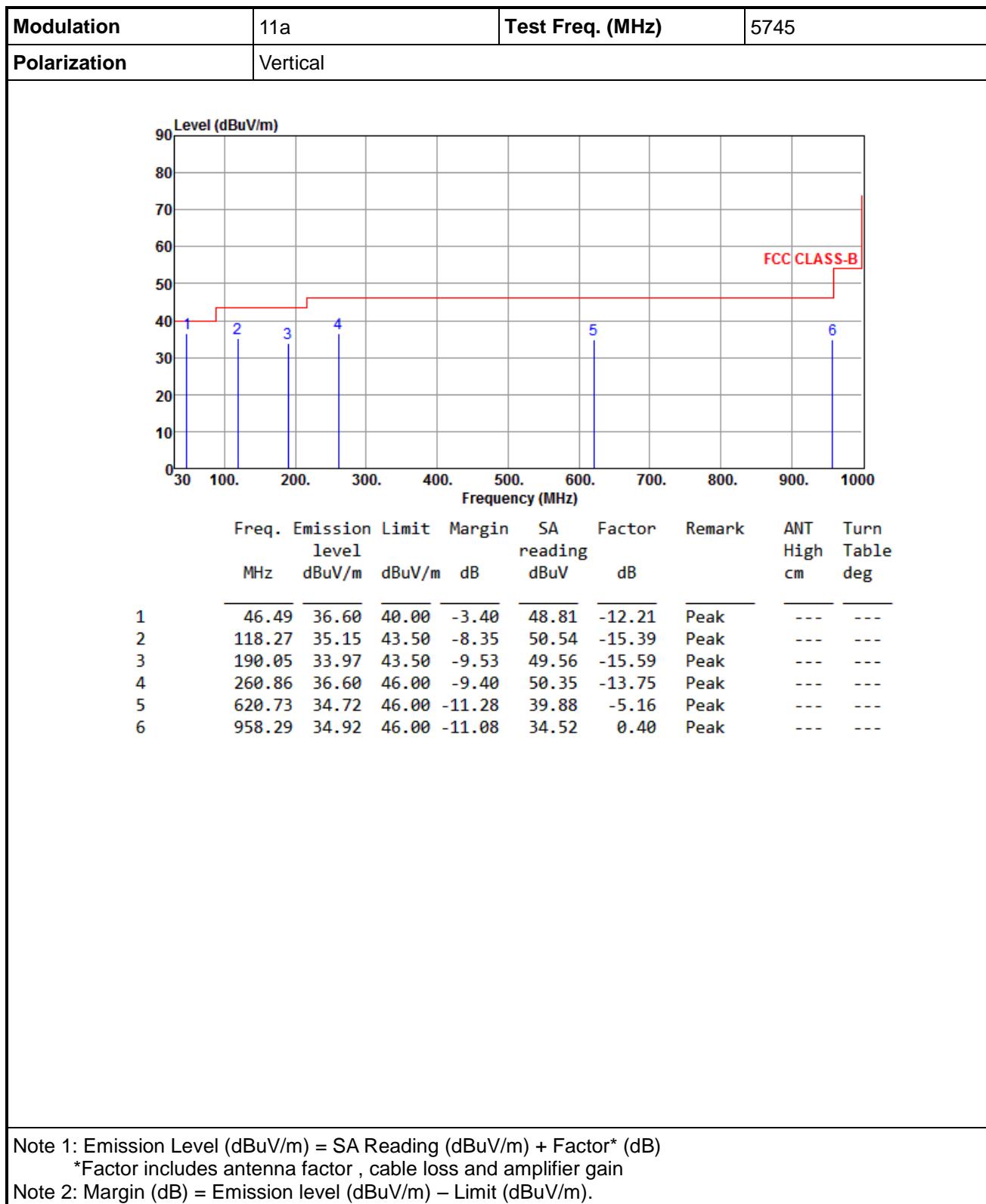


#### Radiated Emissions above 1 GHz

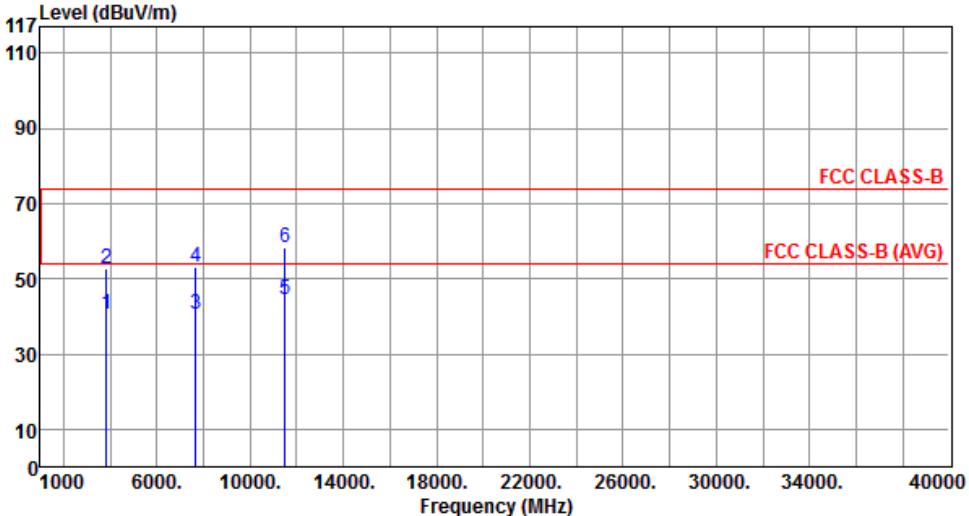


### 3.2.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5745																																																																						
Polarization	Horizontal																																																																								
																																																																									
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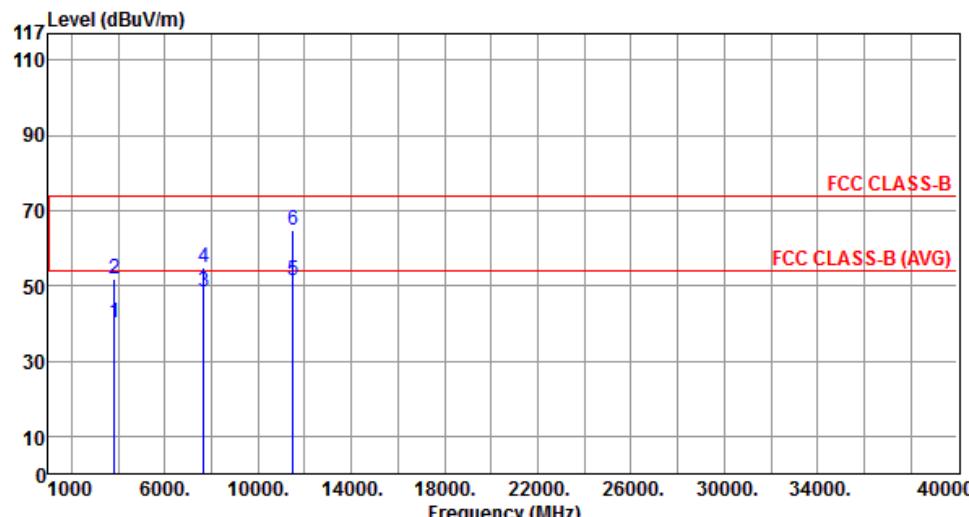
### 3.2.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5745																																																															
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 <p>The graph plots Emission Level (dBuV/m) on the y-axis (0 to 117) against Frequency (MHz) on the x-axis (1000 to 40000). Six data points are marked with vertical blue lines: 1 (40.53 dBuV/m at 3830.00 MHz), 2 (52.48 dBuV/m at 3830.00 MHz), 3 (40.71 dBuV/m at 7660.00 MHz), 4 (53.00 dBuV/m at 7660.00 MHz), 5 (44.66 dBuV/m at 11490.00 MHz), and 6 (58.17 dBuV/m at 11490.00 MHz). Two horizontal red lines represent the FCC CLASS-B limit (74 dBuV/m) and the FCC CLASS-B (AVG) limit (53 dBuV/m).</p>																																																																		
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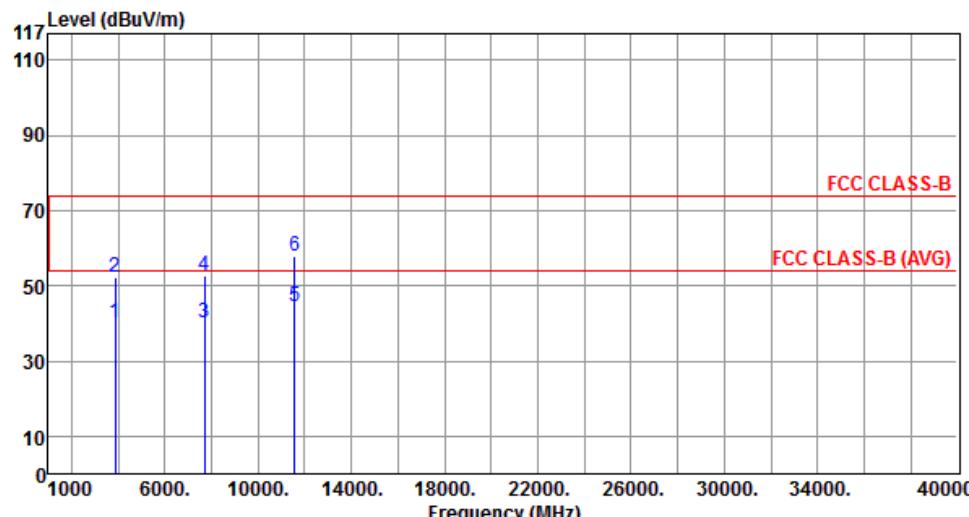
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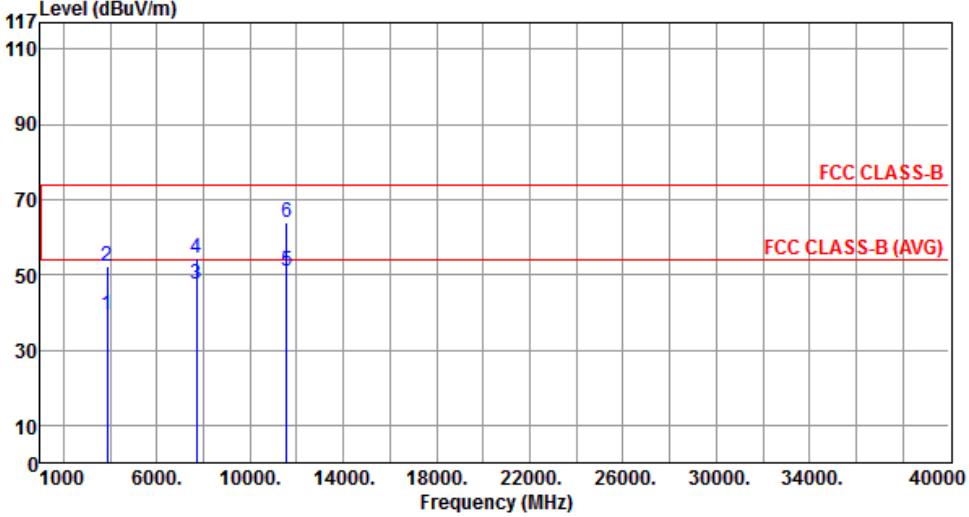
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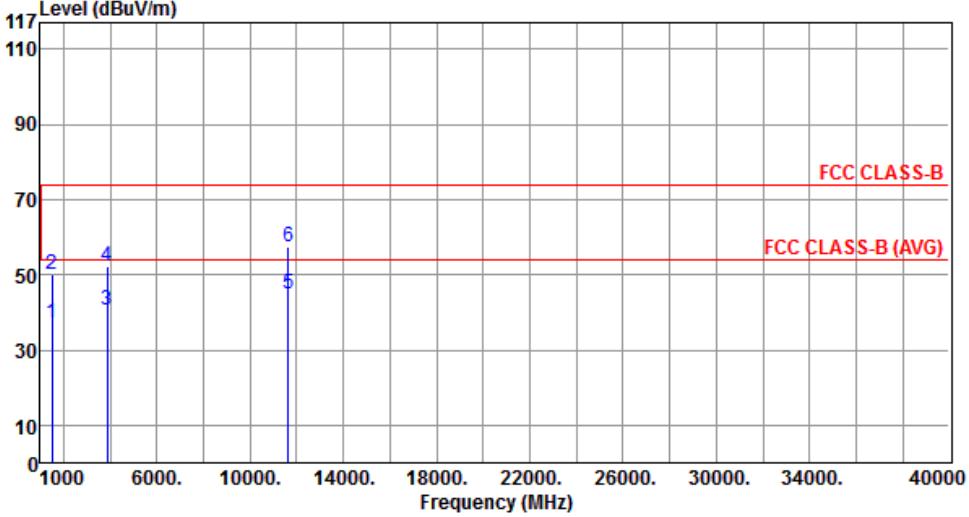
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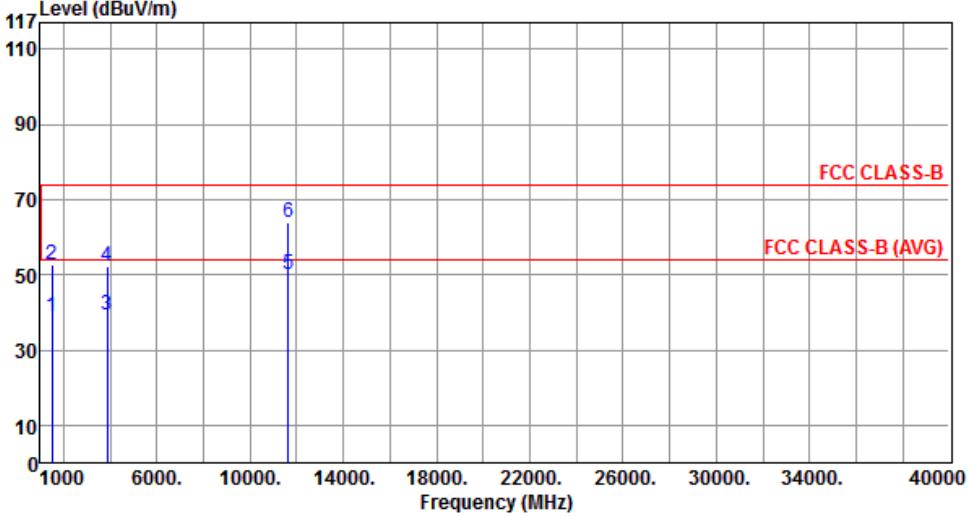
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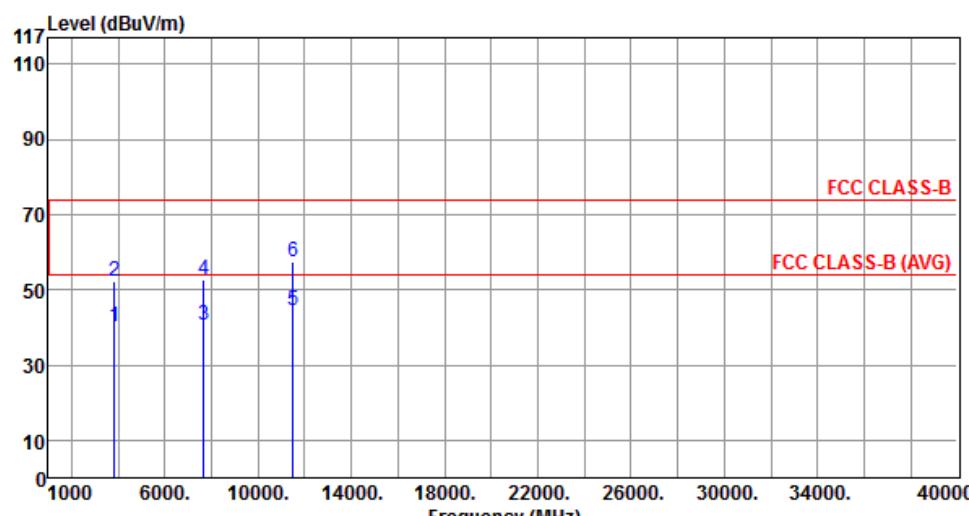
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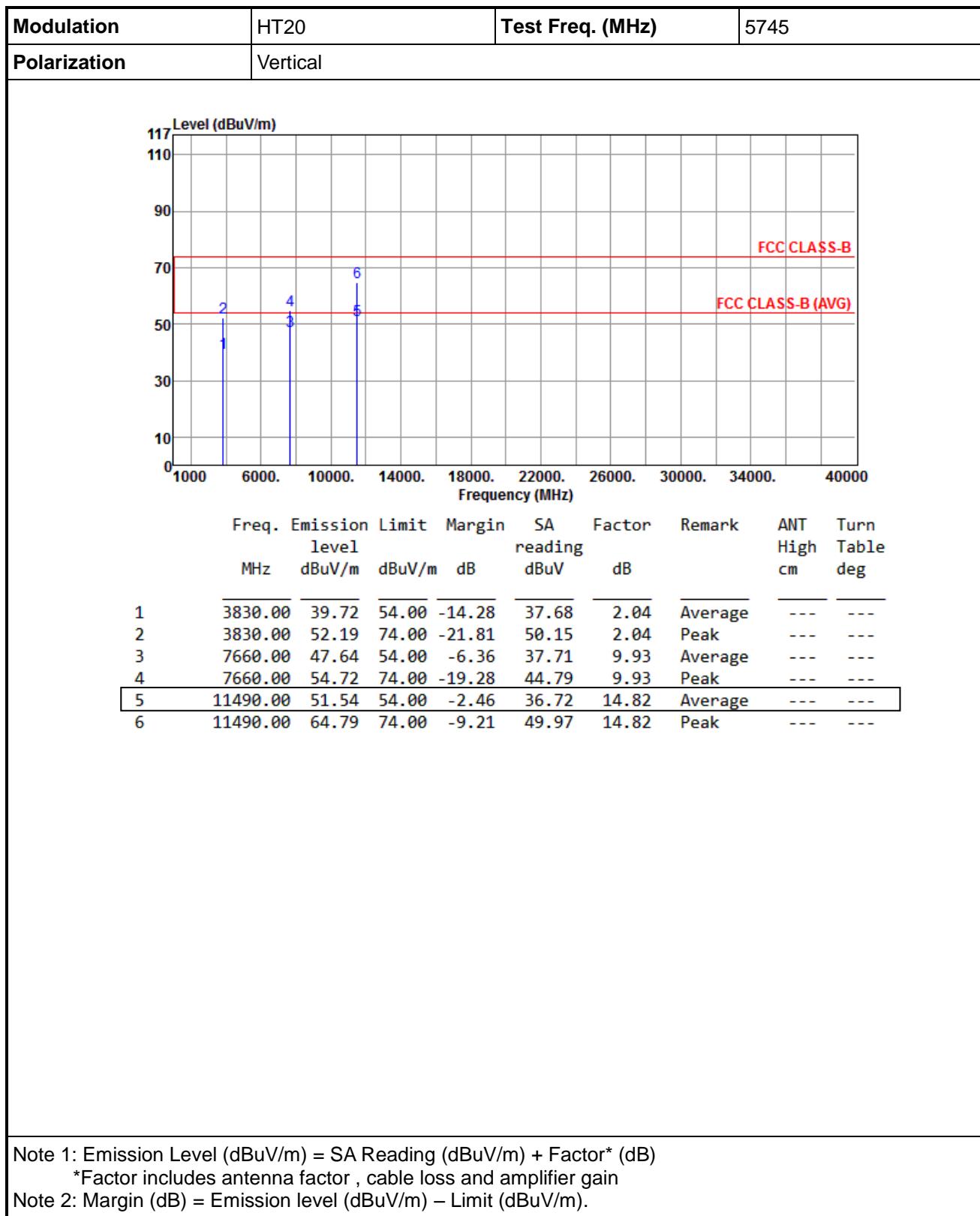
### 3.2.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

Modulation	HT20	Test Freq. (MHz)	5745																																																															
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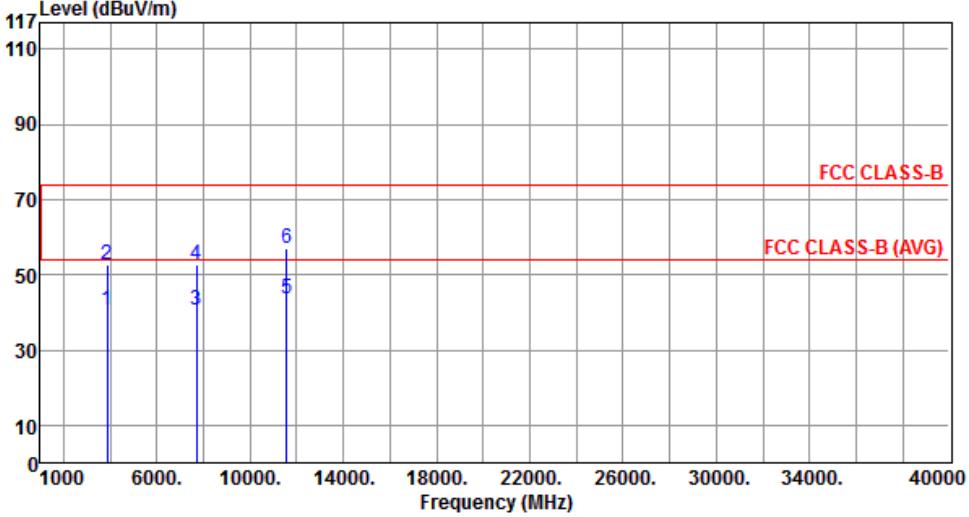
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

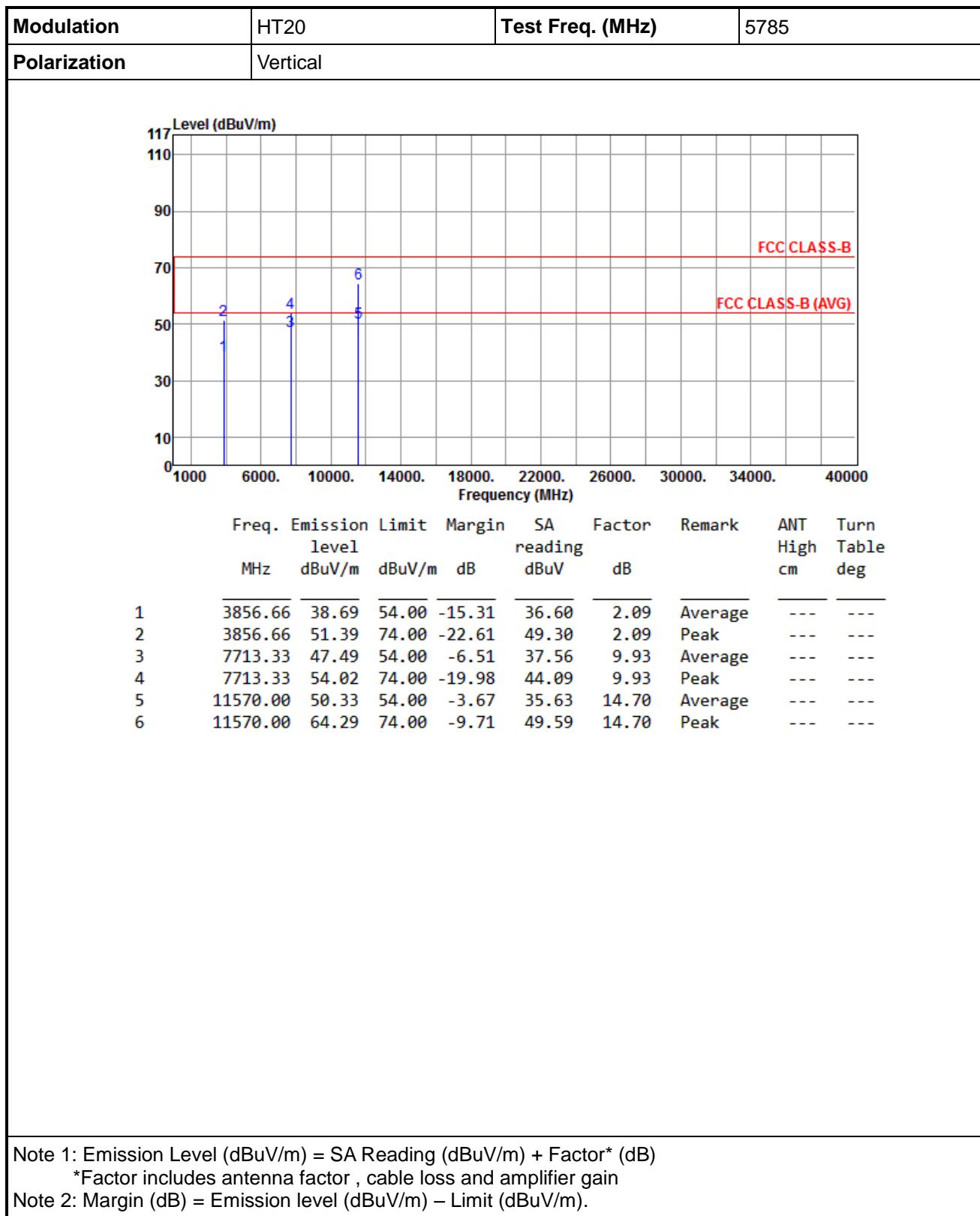


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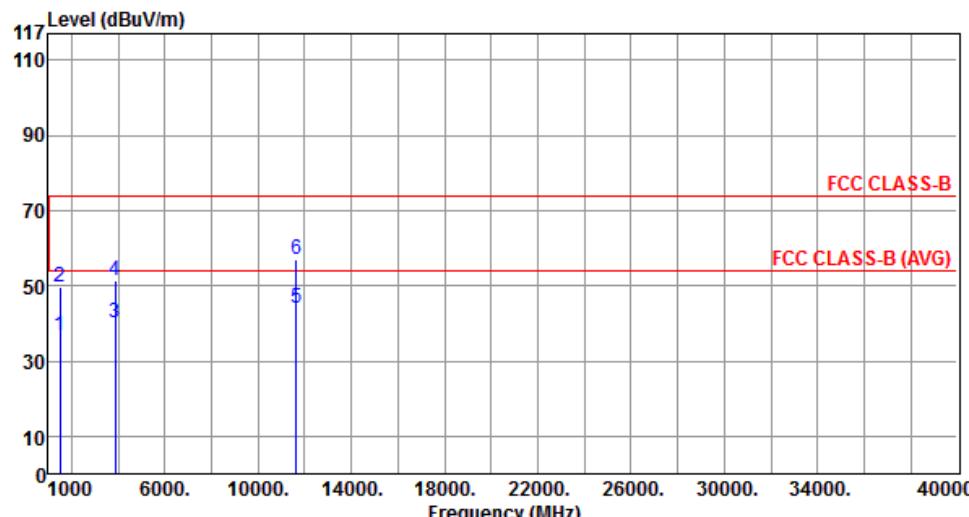
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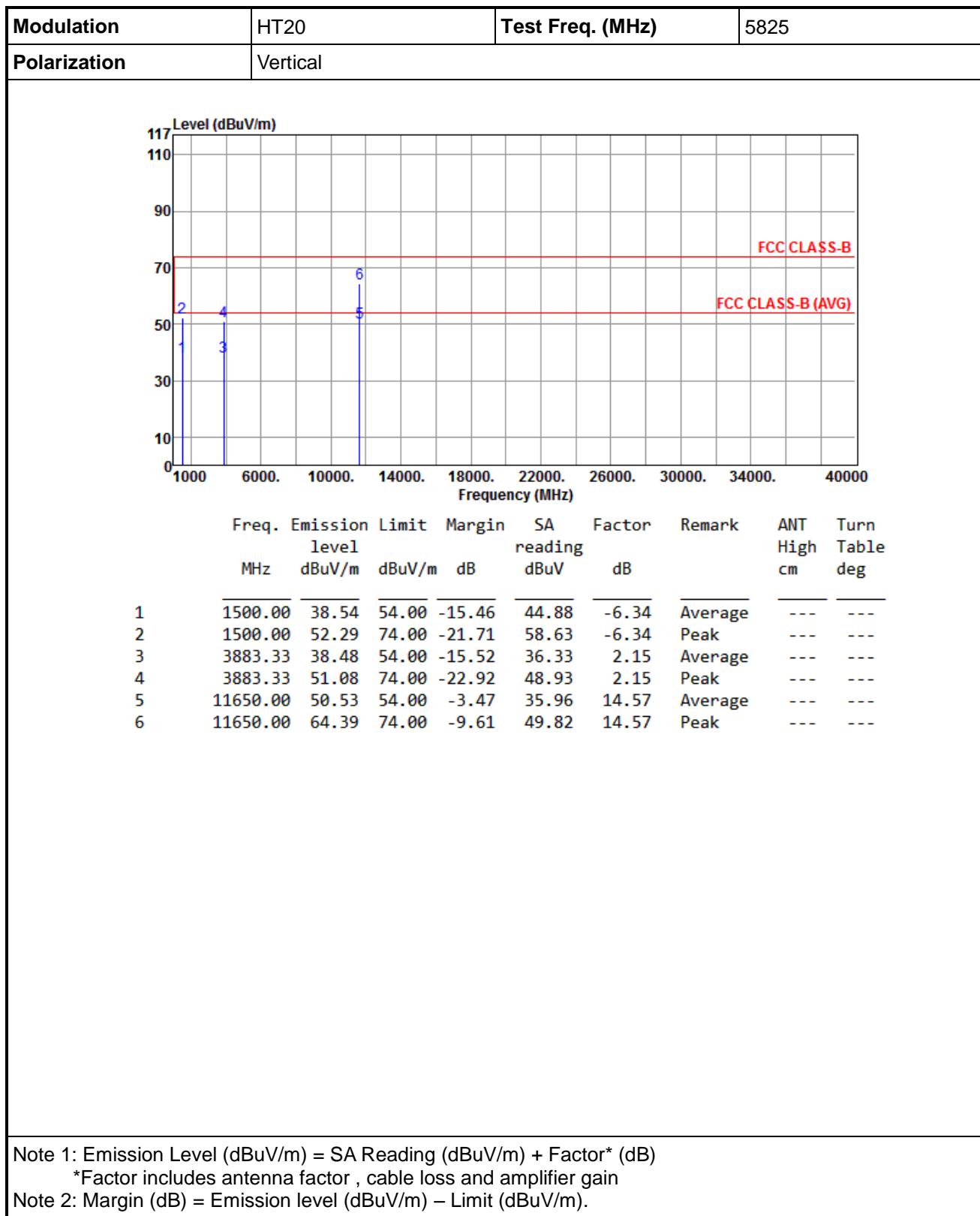


Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	5825																																																																								
<b>Polarization</b>	Horizontal																																																																										
																																																																											
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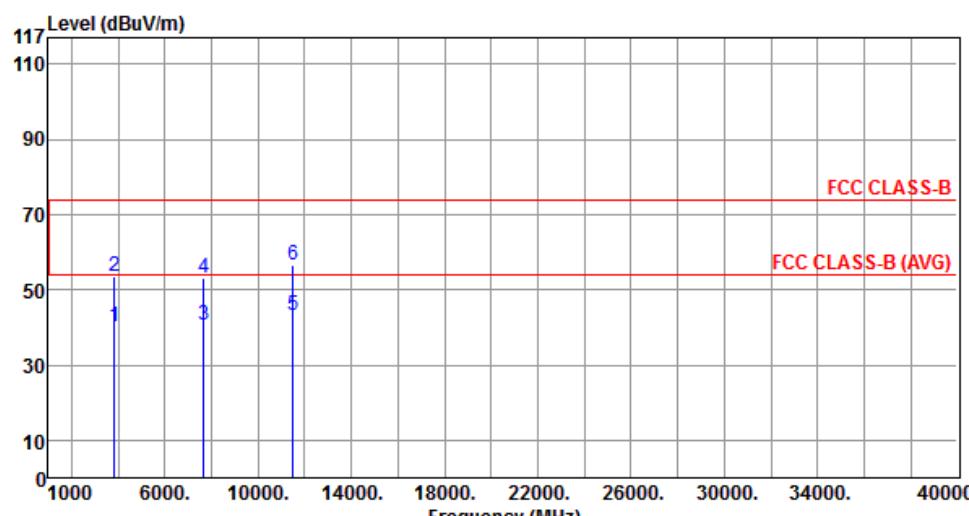


Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

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

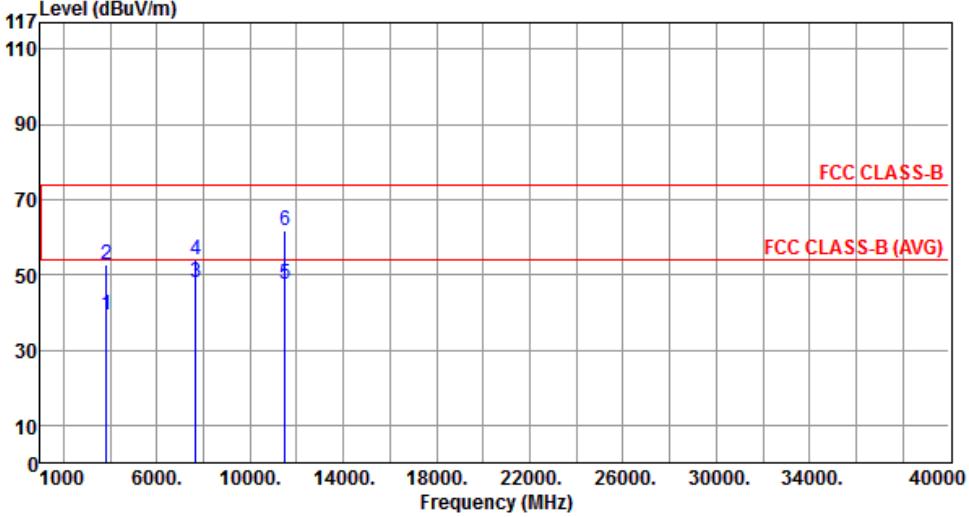
### 3.2.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

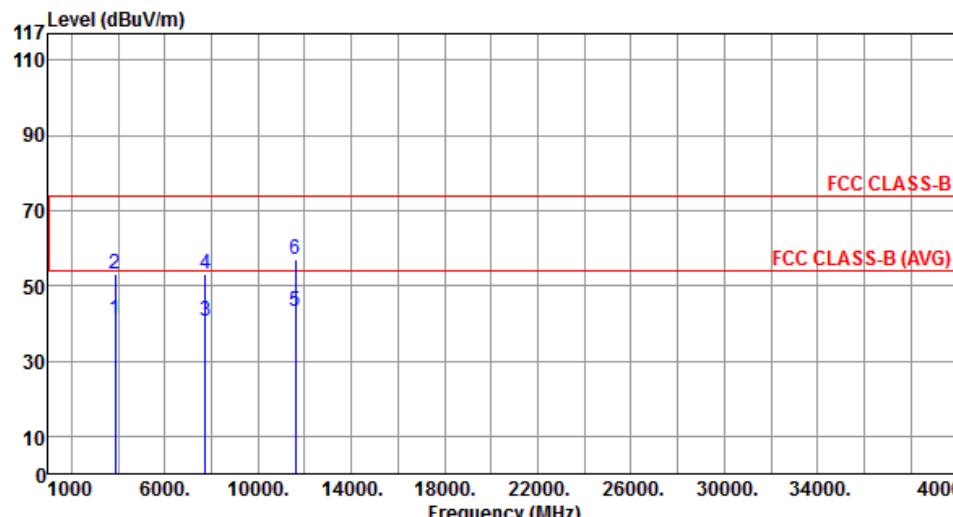
Modulation	HT40	Test Freq. (MHz)	5755																																																															
Polarization	Horizontal																																																																	
																																																																		
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

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<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	5755																																																																								
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<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	5795																																																																								
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<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	5795					
<b>Polarization</b>	Vertical							
 FCC CLASS-B (70 dBuV/m)								
 FCC CLASS-B (AVG) (54 dBuV/m)								
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3863.33	39.78	54.00	-14.22	37.67	2.11	Average	---
2	3863.33	53.18	74.00	-20.82	51.07	2.11	Peak	---
3	7726.66	47.49	54.00	-6.51	37.56	9.93	Average	---
4	7726.66	54.15	74.00	-19.85	44.22	9.93	Peak	---
5	11590.00	46.89	54.00	-7.11	32.23	14.66	Average	---
6	11590.00	61.37	74.00	-12.63	46.71	14.66	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).

## 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, 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 Hsiang. 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 Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: [ICC\\_Service@icertifi.com.tw](mailto:ICC_Service@icertifi.com.tw)

==END==