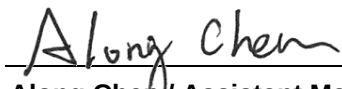


FCC Test Report

FCC ID : 2AAS9-MO10
Equipment : Wi-Fi 6 AX6600 Tri-Radio Outdoor Mesh Router
Model No. : MO10
Brand Name : PRISM
Applicant : Browan Communications Incorporation
Address : No.15-1, Zhonghua Rd., Hsinchu Industrial Park,
Hukou Hsinchu Hsien Taiwan 303
Standard : 47 CFR FCC Part 15.407
Received Date : Oct. 12, 2021
Tested Date : Oct. 18 ~ Nov. 23, 2021

We, International Certification Corporation, 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
FR1O1201AN	Rev. 01	Initial issue	Dec. 16, 2021

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.474MHz 34.89 (Margin -11.56dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5925.00MHz 67.02 (Margin -1.18dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 16.14 5725~5850MHz: 28.62	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

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 _{TX})	Data Rate / MCS
5150-5250 5725-5850	a	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2 4	6-54 Mbps
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2 4	MCS 0-15 MCS 0-31
5150-5250 5725-5850	n (HT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2 4	MCS 0-15 MCS 0-31
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2 4	MCS 0-9
5150-5250 5725-5850	ac (VHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2 4	MCS 0-9
5150-5250 5725-5850	ac (VHT80)	5210 5775	42 [1] 155 [1]	2 4	MCS 0-9
5150-5250 5725-5850	ax (HE20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2 4	MCS 0-11
5150-5250 5725-5850	ax (HE40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2 4	MCS 0-11
5150-5250 5725-5850	ax (HE80)	5210 5775	42 [1] 155 [1]	2 4	MCS 0-11

Note: OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
				2400~2483.5	5150~5250	5725~5850
1	ANT3	Dipole	N type	5.6	4.3	--
2	ANT1	Dipole	N type	7.4	5.3	--
3	ANT6	Dipole	N type	--	--	4.9
4	ANT2	Dipole	N type	--	--	6.8
5	ANT5	Dipole	N type	--	--	4.8
6	ANT4	Dipole	N type	--	--	6.3

1.1.3 Radio Details

Radio	Function
1	5.15 GHz ~ 5.35 GHz, 2T2R
2	5.725 GHz ~ 5.85 GHz, 4T4R
3	2.4 GHz, 2T2R

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	56Vdc from POE I/P: 100-240V~ 1.5A, 50-60Hz O/P: 56V= 0.805A
--------------------------	--

Note: The above power supply is not bundled in market.

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	Core	Brand: King core Model: KCF-130-B
2	Toolkit	--

1.1.6 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	151	5755
48	5240	159	5795
149	5745	802.11ac VHT80 / ax HE80	
153	5765	42	5210
157	5785	155	5775
161	5805	-	-
165	5825	-	-

1.1.7 Test Tool and Duty Cycle

Test Tool	QPSR, V5.0-00199		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	93.01%	0.31
	ax (HE20) -OFDMA	97.41%	0.11
	ax (HE40) -OFDMA	97.41%	0.11
	ax (HE80) -OFDMA	73.28%	1.35

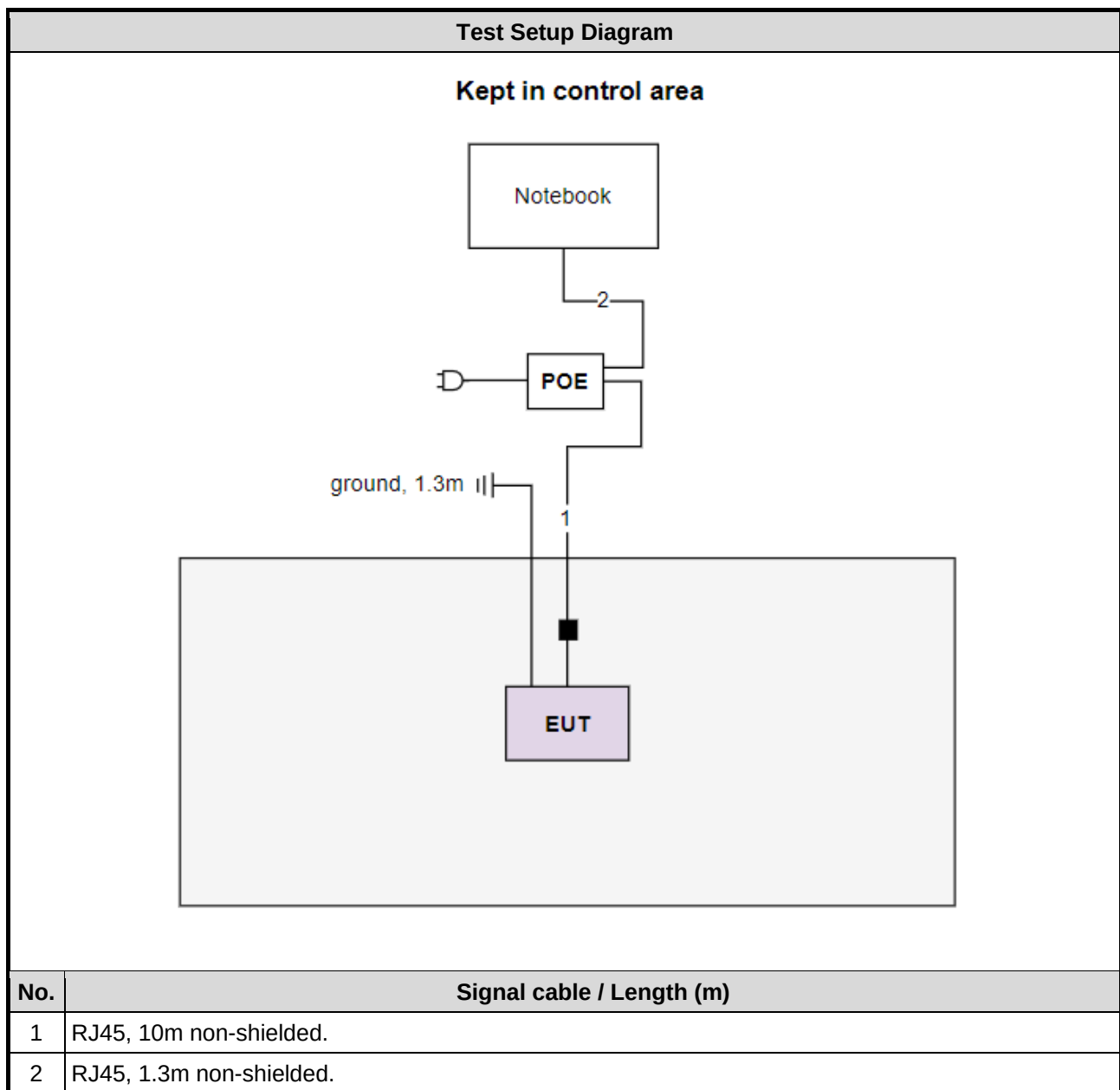
1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	14.5
11a	5200	14.5
11a	5240	14
11a	5745	23
11a	5785	23
11a	5825	23
ax (HE20)-OFDMA	5180	14.5
ax (HE20)-OFDMA	5200	14.5
ax (HE20)-OFDMA	5240	14
ax (HE20)-OFDMA	5745	23
ax (HE20)-OFDMA	5785	23
ax (HE20)-OFDMA	5825	23
ax (HE40)-OFDMA	5190	14
ax (HE40)-OFDMA	5230	14
ax (HE40)-OFDMA	5755	23
ax (HE40)-OFDMA	5795	22.5
ax (HE80)-OFDMA	5210	14
ax (HE80)-OFDMA	5775	22

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	POE	DELTA	ADH-45AR B	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission Below 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Nov. 23, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission Above 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Oct. 18 ~ Oct. 22, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 11, 2020	Dec. 10, 2021
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Dec. 31, 2020	Dec. 30, 2021
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Nov. 23, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 08, 2021	Feb. 07, 2022
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 29, 2020	Dec. 28, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Nov. 12 ~ Nov. 15, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021
Power Meter	Anritsu	ML2495A	1218007	Jan. 26, 2021	Jan. 25, 2022
Power Sensor	Anritsu	MA2411B	1207367	Jan. 26, 2021	Jan. 25, 2022
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 04, 2020	Dec. 03, 2021
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407

ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Radiated emission ≤ 1 GHz	± 3.41 dB
Radiated emission > 1 GHz	± 4.59 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
Conducted Emissions Radiated Emissions ≤1GHz	11a	5180	6 Mbps	---
RF Output Power Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a ax (HE20)-OFDMA ax (HE40)-OFDMA ax (HE80)-OFDMA	5180 / 5200 / 5240 5180 / 5200 / 5240 5190 / 5230 5210	6 Mbps MCS 0 MCS 0 MCS 0	---
Frequency Stability	Un-modulation	5200	---	---
Beamforming mode				
RF Output Power	ax (HE20)-OFDMA ax (HE40)-OFDMA ax (HE80)-OFDMA	5180 / 5200 / 5240 5190 / 5230 5210	MCS 0 MCS 0 MCS 0	---
For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
Conducted Emissions Radiated Emissions ≤1GHz	11a	5785	6 Mbps	---
Radiated Emissions >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a ax (HE20)-OFDMA ax (HE40)-OFDMA ax (HE80)-OFDMA	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795 5775	6 Mbps MCS 0 MCS 0 MCS 0	---
Frequency Stability	Un-modulation	5785	---	---
Beamforming mode				
RF Output Power	ax (HE20)-OFDMA ax (HE40)-OFDMA ax (HE80)-OFDMA	5745 / 5785 / 5825 5755 / 5795 5775	MCS 0 MCS 0 MCS 0	---

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

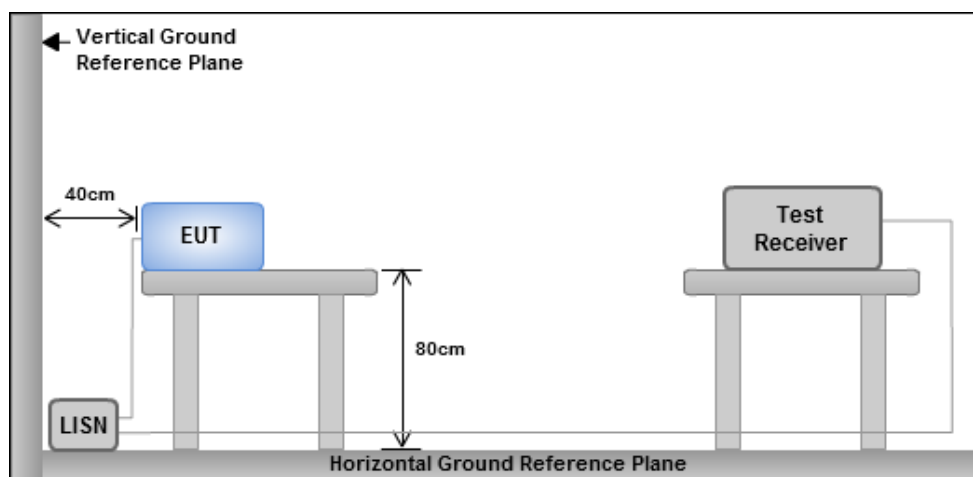
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 Test Procedures

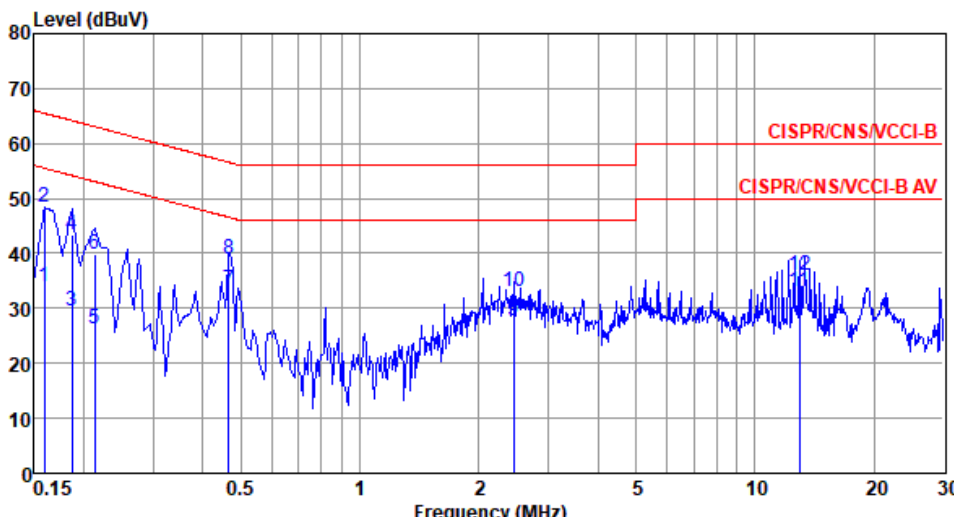
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels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

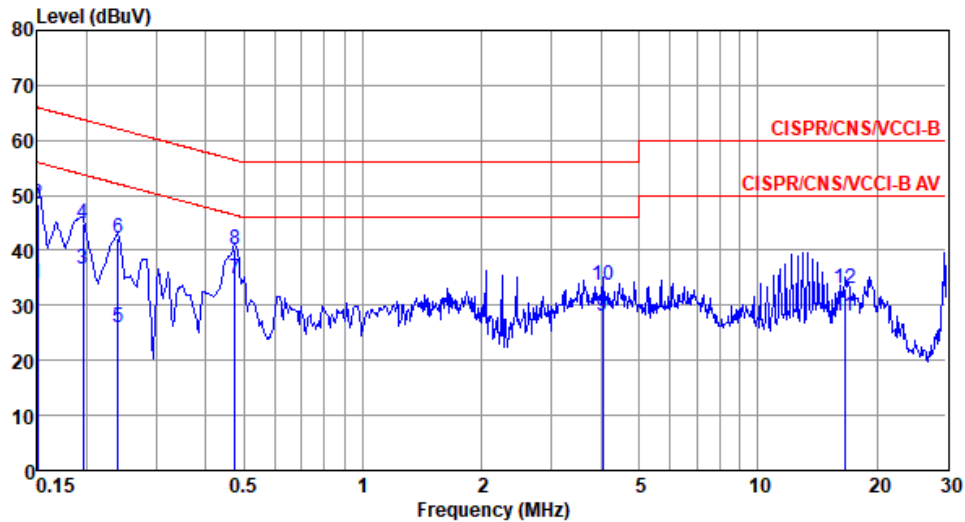
Modulation	11a	Test Freq. (MHz)	5180																																																																																																																																		
Power Phase	Line																																																																																																																																				
Test by : Brad Wu Temperature: 22°C Humidity: 62%																																																																																																																																					
Level (dBUV)  Frequency (MHz) <table><thead><tr><th></th><th>Freq MHz</th><th>Level dBUV</th><th>Limit Line dBUV</th><th>Over Limit dB</th><th>Read Level dBUV</th><th>Factor dB</th><th>Cable loss dB</th><th>Aux dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.159</td><td>33.91</td><td>55.52</td><td>-21.61</td><td>24.17</td><td>9.66</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>2</td><td>0.159</td><td>48.28</td><td>65.52</td><td>-17.24</td><td>38.54</td><td>9.66</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>3</td><td>0.186</td><td>29.39</td><td>54.20</td><td>-24.81</td><td>19.66</td><td>9.65</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>4</td><td>0.186</td><td>43.32</td><td>64.20</td><td>-20.88</td><td>33.59</td><td>9.65</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>5</td><td>0.213</td><td>26.15</td><td>53.10</td><td>-26.95</td><td>16.42</td><td>9.65</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>6</td><td>0.213</td><td>39.79</td><td>63.10</td><td>-23.31</td><td>30.06</td><td>9.65</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>7*</td><td>0.466</td><td>33.45</td><td>46.58</td><td>-13.13</td><td>23.72</td><td>9.64</td><td>0.09</td><td>0.00</td><td>Average</td></tr><tr><td>8</td><td>0.466</td><td>38.91</td><td>56.58</td><td>-17.67</td><td>29.18</td><td>9.64</td><td>0.09</td><td>0.00</td><td>QP</td></tr><tr><td>9</td><td>2.448</td><td>27.86</td><td>46.00</td><td>-18.14</td><td>18.00</td><td>9.66</td><td>0.20</td><td>0.00</td><td>Average</td></tr><tr><td>10</td><td>2.448</td><td>32.92</td><td>56.00</td><td>-23.08</td><td>23.06</td><td>9.66</td><td>0.20</td><td>0.00</td><td>QP</td></tr><tr><td>11</td><td>12.972</td><td>33.03</td><td>50.00</td><td>-16.97</td><td>22.81</td><td>9.70</td><td>0.52</td><td>0.00</td><td>Average</td></tr><tr><td>12</td><td>12.972</td><td>36.14</td><td>60.00</td><td>-23.86</td><td>25.92</td><td>9.70</td><td>0.52</td><td>0.00</td><td>QP</td></tr></tbody></table>					Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark	1	0.159	33.91	55.52	-21.61	24.17	9.66	0.08	0.00	Average	2	0.159	48.28	65.52	-17.24	38.54	9.66	0.08	0.00	QP	3	0.186	29.39	54.20	-24.81	19.66	9.65	0.08	0.00	Average	4	0.186	43.32	64.20	-20.88	33.59	9.65	0.08	0.00	QP	5	0.213	26.15	53.10	-26.95	16.42	9.65	0.08	0.00	Average	6	0.213	39.79	63.10	-23.31	30.06	9.65	0.08	0.00	QP	7*	0.466	33.45	46.58	-13.13	23.72	9.64	0.09	0.00	Average	8	0.466	38.91	56.58	-17.67	29.18	9.64	0.09	0.00	QP	9	2.448	27.86	46.00	-18.14	18.00	9.66	0.20	0.00	Average	10	2.448	32.92	56.00	-23.08	23.06	9.66	0.20	0.00	QP	11	12.972	33.03	50.00	-16.97	22.81	9.70	0.52	0.00	Average	12	12.972	36.14	60.00	-23.86	25.92	9.70	0.52	0.00	QP
	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark																																																																																																																												
1	0.159	33.91	55.52	-21.61	24.17	9.66	0.08	0.00	Average																																																																																																																												
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7*	0.466	33.45	46.58	-13.13	23.72	9.64	0.09	0.00	Average																																																																																																																												
8	0.466	38.91	56.58	-17.67	29.18	9.64	0.09	0.00	QP																																																																																																																												
9	2.448	27.86	46.00	-18.14	18.00	9.66	0.20	0.00	Average																																																																																																																												
10	2.448	32.92	56.00	-23.08	23.06	9.66	0.20	0.00	QP																																																																																																																												
11	12.972	33.03	50.00	-16.97	22.81	9.70	0.52	0.00	Average																																																																																																																												
12	12.972	36.14	60.00	-23.86	25.92	9.70	0.52	0.00	QP																																																																																																																												
Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB). 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).																																																																																																																																					

Modulation	11a	Test Freq. (MHz)	5180
Power Phase	Neutral		

Test by : Brad Wu

Temperature: 22°C

Humidity: 62%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	33.84	56.00	-22.16	24.07	9.69	0.08	0.00	Average
2	0.150	48.30	66.00	-17.70	38.53	9.69	0.08	0.00	QP
3	0.195	36.49	53.80	-17.31	26.73	9.68	0.08	0.00	Average
4	0.195	44.81	63.80	-18.99	35.05	9.68	0.08	0.00	QP
5	0.240	26.01	52.08	-26.07	16.25	9.68	0.08	0.00	Average
6	0.240	42.29	62.08	-19.79	32.53	9.68	0.08	0.00	QP
7*	0.474	34.89	46.45	-11.56	25.13	9.67	0.09	0.00	Average
8	0.474	40.14	56.45	-16.31	30.38	9.67	0.09	0.00	QP
9	4.049	28.00	46.00	-18.00	18.09	9.70	0.21	0.00	Average
10	4.049	33.77	56.00	-22.23	23.86	9.70	0.21	0.00	QP
11	16.573	28.13	50.00	-21.87	17.72	9.82	0.59	0.00	Average
12	16.573	33.05	60.00	-26.95	22.64	9.82	0.59	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

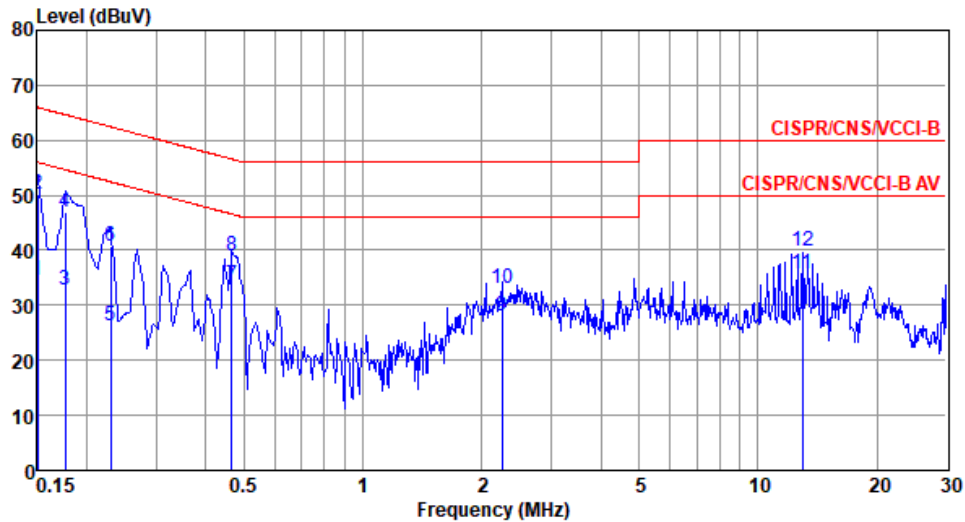
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11a	Test Freq. (MHz)	5785
Power Phase	Line		

Test by : Brad Wu

Temperature: 22°C

Humidity: 62%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	34.53	56.00	-21.47	24.79	9.66	0.08	0.00	Average
2	0.150	50.20	66.00	-15.80	40.46	9.66	0.08	0.00	QP
3	0.177	32.68	54.64	-21.96	22.95	9.65	0.08	0.00	Average
4	0.177	46.86	64.64	-17.78	37.13	9.65	0.08	0.00	QP
5	0.230	26.20	52.44	-26.24	16.47	9.65	0.08	0.00	Average
6	0.230	40.70	62.44	-21.74	30.97	9.65	0.08	0.00	QP
7*	0.466	33.65	46.58	-12.93	23.92	9.64	0.09	0.00	Average
8	0.466	39.00	56.58	-17.58	29.27	9.64	0.09	0.00	QP
9	2.249	28.06	46.00	-17.94	18.20	9.66	0.20	0.00	Average
10	2.249	33.04	56.00	-22.96	23.18	9.66	0.20	0.00	QP
11	12.981	35.77	50.00	-14.23	25.55	9.70	0.52	0.00	Average
12	12.981	39.73	60.00	-20.27	29.51	9.70	0.52	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

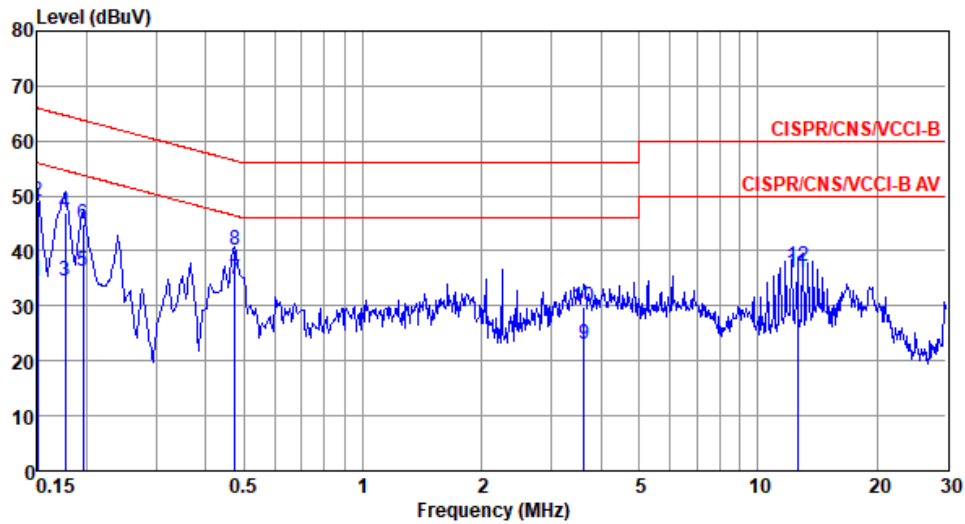
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11a	Test Freq. (MHz)	5785
Power Phase	Neutral		

Test by : Brad Wu

Temperature: 22°C

Humidity: 62%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	34.59	56.00	-21.41	24.82	9.69	0.08	0.00	Average
2	0.150	48.87	66.00	-17.13	39.10	9.69	0.08	0.00	QP
3	0.177	34.52	54.64	-20.12	24.76	9.68	0.08	0.00	Average
4	0.177	46.87	64.64	-17.77	37.11	9.68	0.08	0.00	QP
5	0.195	36.20	53.80	-17.60	26.44	9.68	0.08	0.00	Average
6	0.195	44.95	63.80	-18.85	35.19	9.68	0.08	0.00	QP
7*	0.474	34.75	46.45	-11.70	24.99	9.67	0.09	0.00	Average
8	0.474	40.20	56.45	-16.25	30.44	9.67	0.09	0.00	QP
9	3.623	22.94	46.00	-23.06	13.03	9.70	0.21	0.00	Average
10	3.623	29.95	56.00	-26.05	20.04	9.70	0.21	0.00	QP
11	12.572	35.95	50.00	-14.05	25.65	9.79	0.51	0.00	Average
12	12.572	37.10	60.00	-22.90	26.80	9.79	0.51	0.00	QP

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

3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.2.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

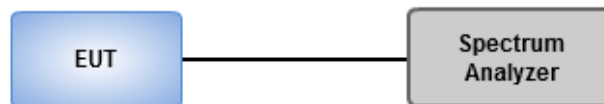
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW $\geq$ 3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.2.3 Test Setup



3.2.4 Test Result of Emission Bandwidth

Ambient Condition	21-23°C / 63-65%	Tested By	Brad Wu
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Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.725M	16.353M	16M4D1D	19.928M	16.353M
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	20.942M	18.813M	18M8D1D	20.507M	18.741M
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	40.58M	37.627M	37M6D1D	39.855M	37.627M
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	82.319M	77.279M	77M3D1D	82.029M	76.99M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.377M	16.57M	16M6D1D	16.377M	16.425M
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	18.986M	19.03M	19M0D1D	18.841M	18.813M
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	37.971M	37.916M	37M9D1D	37.971M	37.771M
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	76.522M	77.279M	77M3D1D	75.362M	76.99M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.217M	16.353M	20.507M	16.353M	-	-	-	-
5200MHz	Pass	Inf	20.435M	16.353M	20.725M	16.353M	-	-	-	-
5240MHz	Pass	Inf	19.928M	16.353M	20.507M	16.353M	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	16.377M	16.498M	16.377M	16.498M	16.377M	16.57M	16.377M	16.57M
5785MHz	Pass	500k	16.377M	16.498M	16.377M	16.498M	16.377M	16.57M	16.377M	16.57M
5825MHz	Pass	500k	16.377M	16.57M	16.377M	16.425M	16.377M	16.57M	16.377M	16.57M
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.942M	18.813M	20.652M	18.741M	-	-	-	-
5200MHz	Pass	Inf	20.797M	18.741M	20.942M	18.741M	-	-	-	-
5240MHz	Pass	Inf	20.507M	18.741M	20.725M	18.741M	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	18.913M	18.813M	18.913M	18.886M	18.986M	18.958M	18.986M	18.958M
5785MHz	Pass	500k	18.986M	18.886M	18.913M	18.886M	18.841M	18.958M	18.986M	19.03M
5825MHz	Pass	500k	18.986M	18.886M	18.986M	18.886M	18.913M	18.886M	18.841M	18.886M
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.435M	37.627M	40.58M	37.627M	-	-	-	-
5230MHz	Pass	Inf	39.855M	37.627M	40M	37.627M	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	37.971M	37.771M	37.971M	37.771M	37.971M	37.916M	37.971M	37.916M
5795MHz	Pass	500k	37.971M	37.771M	37.971M	37.771M	37.971M	37.916M	37.971M	37.771M
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.319M	77.279M	82.029M	76.99M	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	76.522M	77.279M	76.522M	77.279M	75.362M	76.99M	76.522M	76.99M

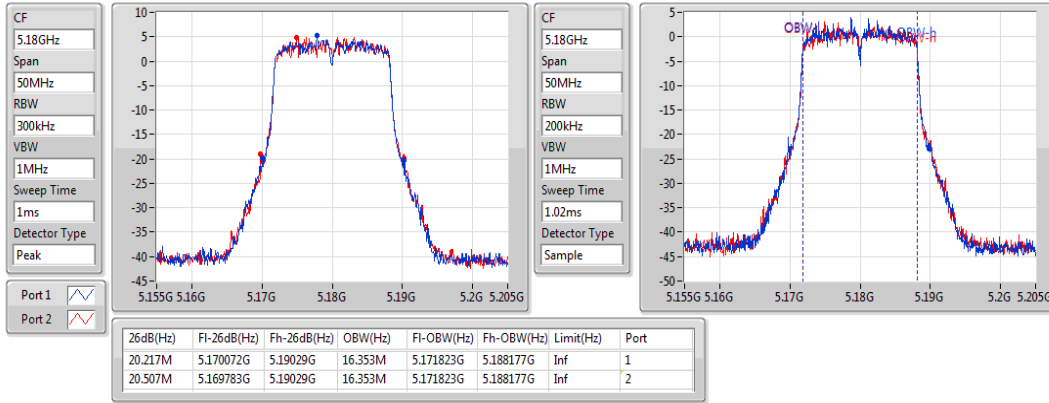
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

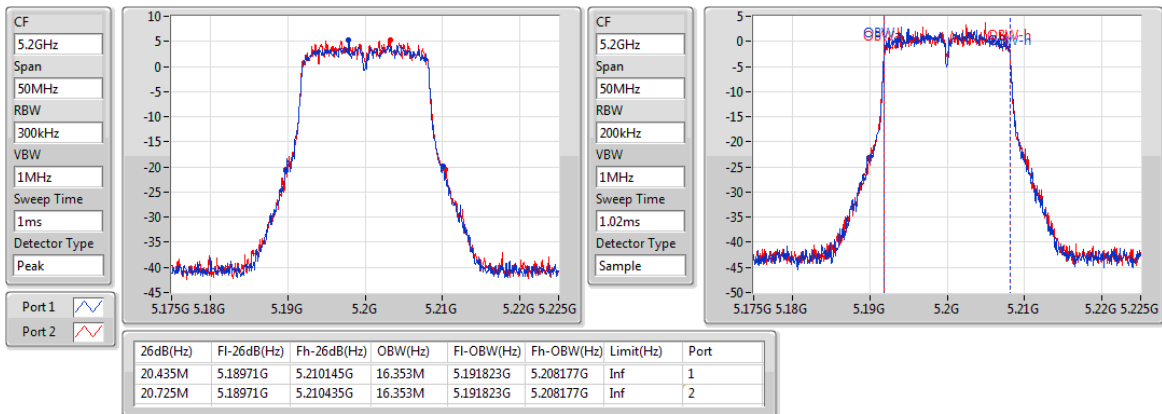
5180MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

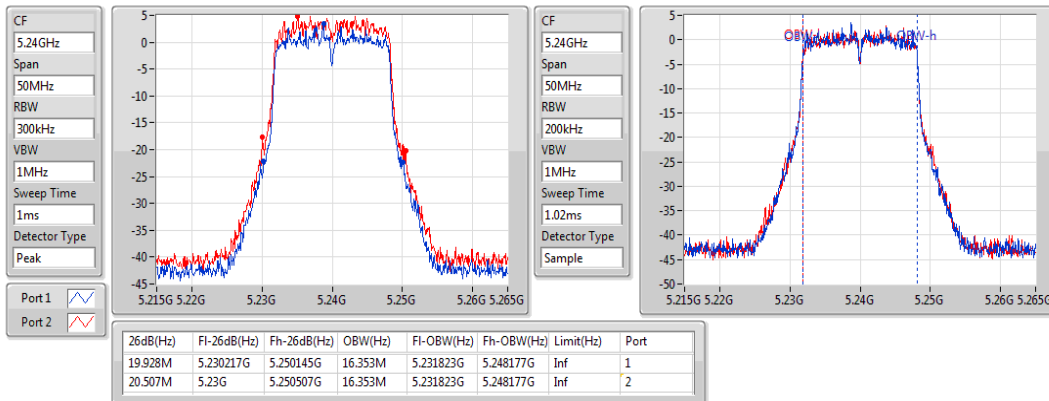
5200MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

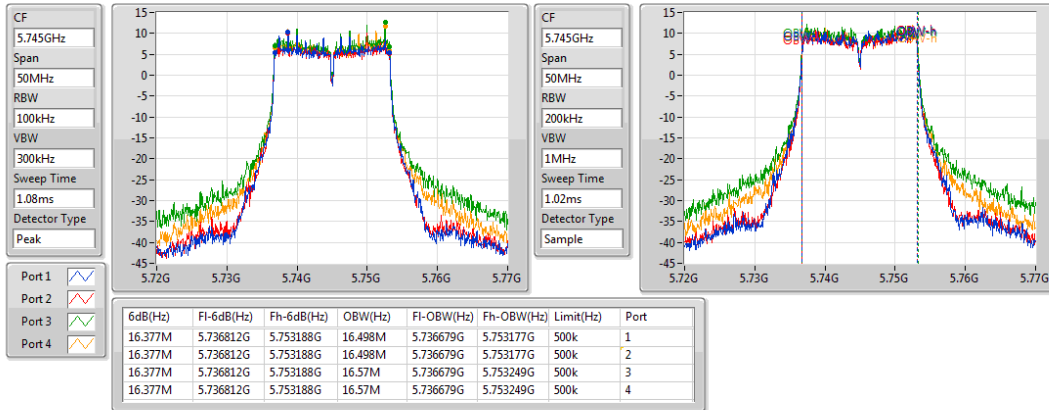
5240MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

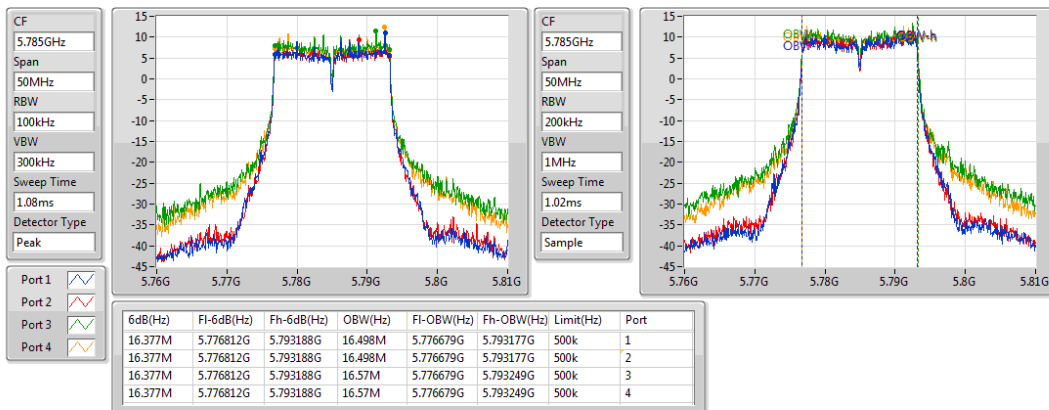
5745MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

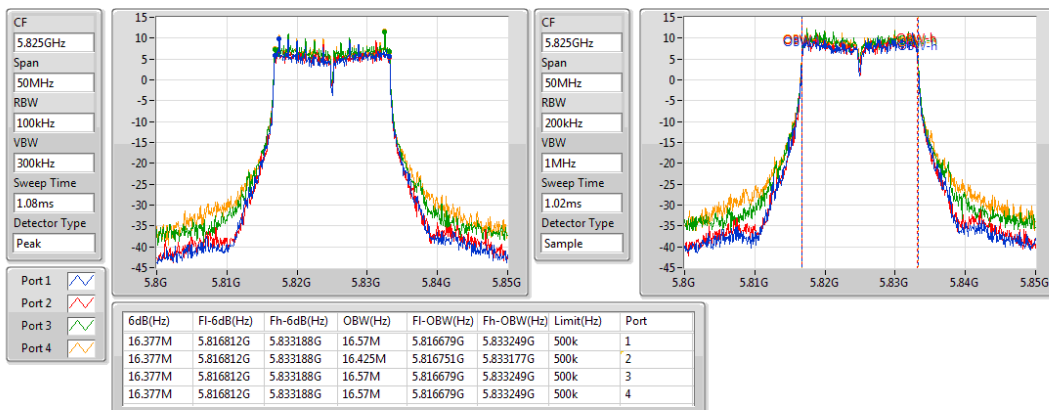
5785MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

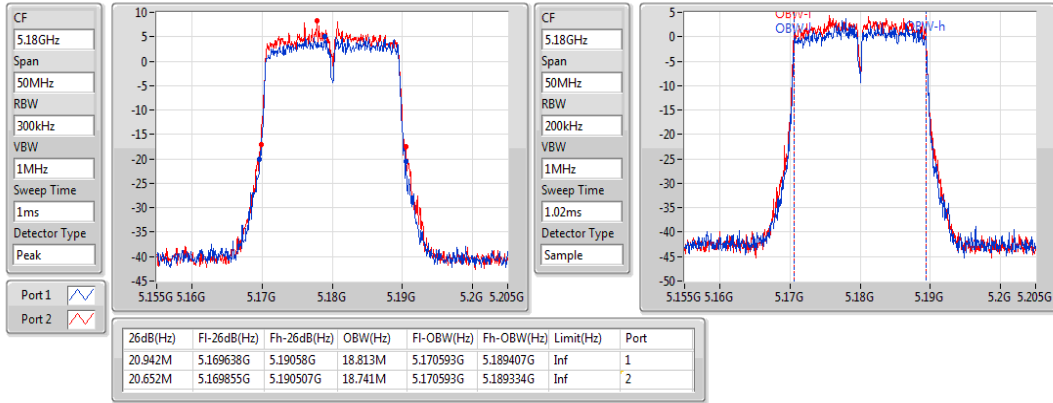
5825MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

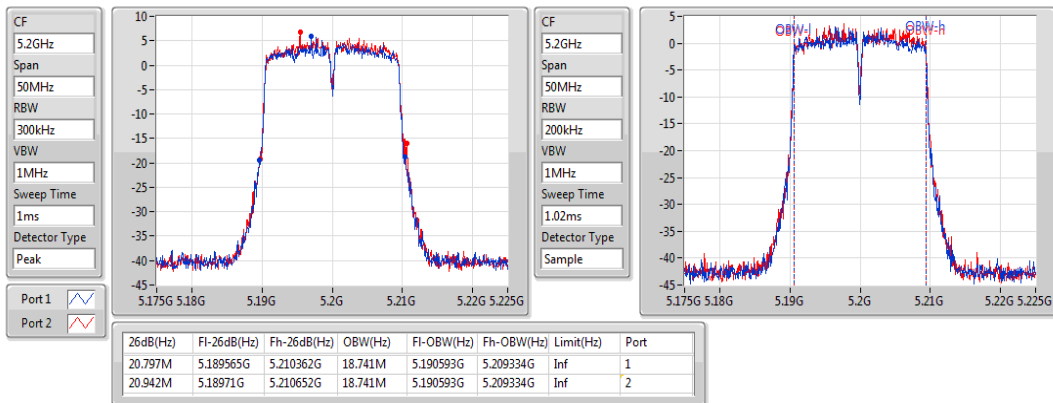
5180MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

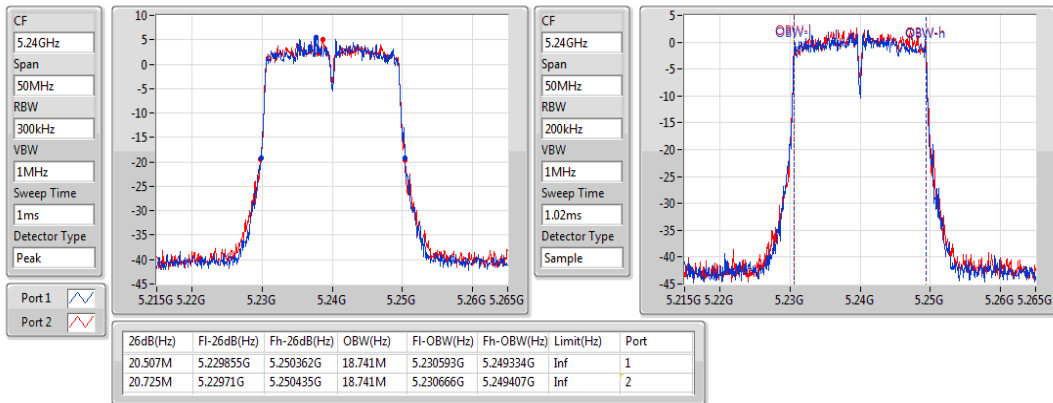
5200MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

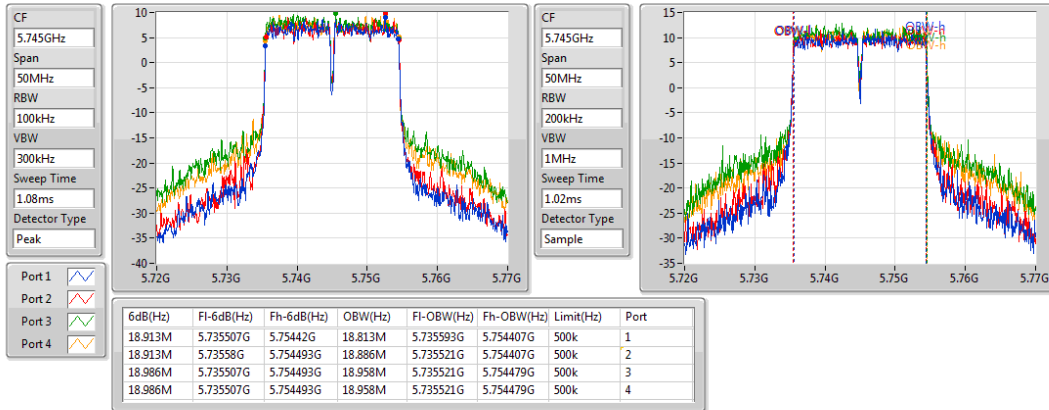
5240MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

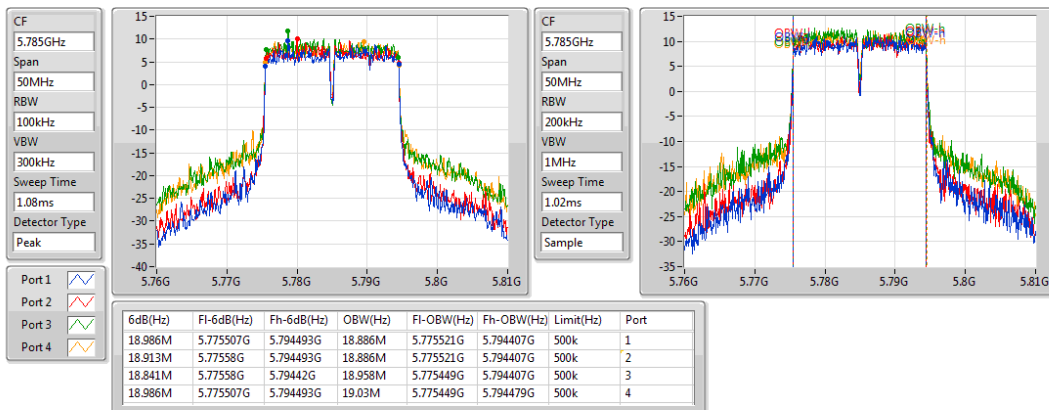
5745MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

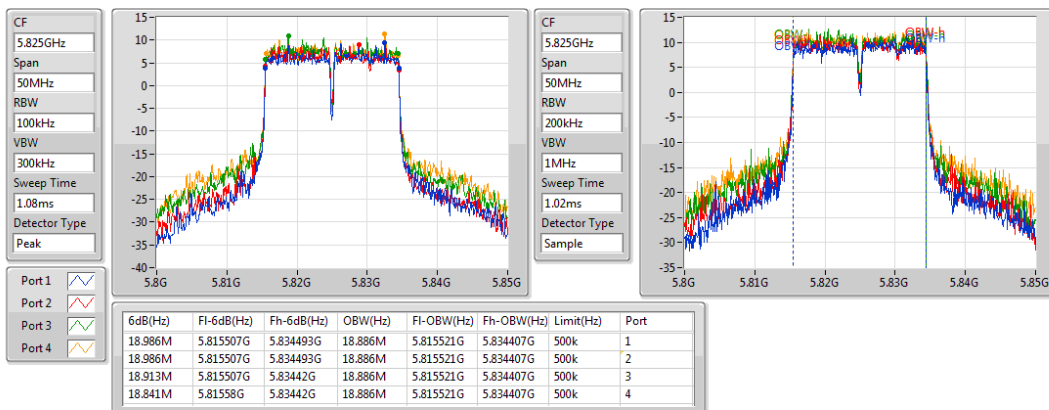
5785MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

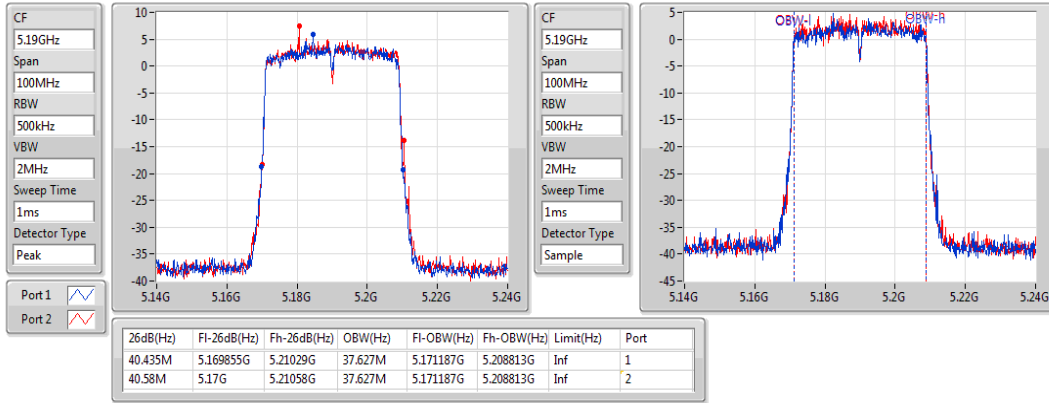
5825MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

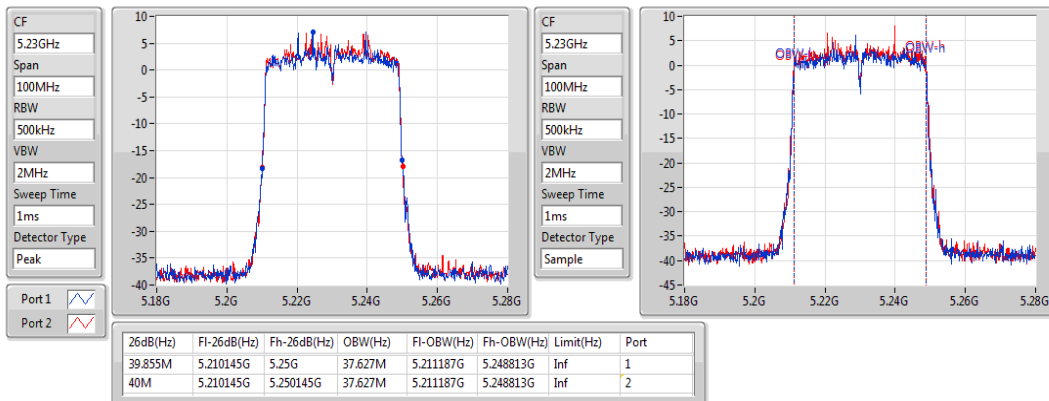
5190MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

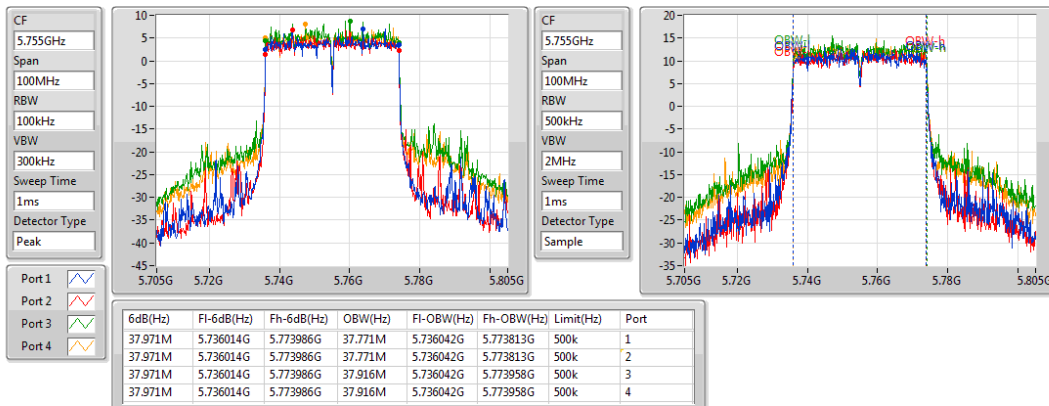
5230MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

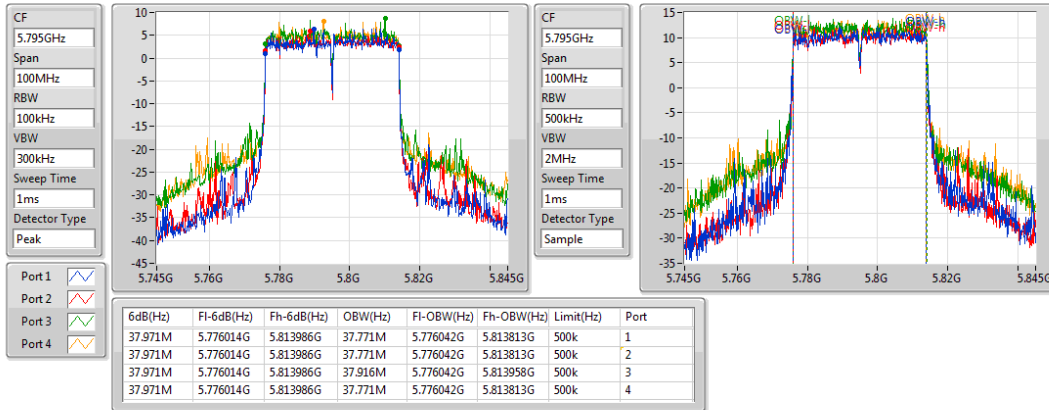
5755MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

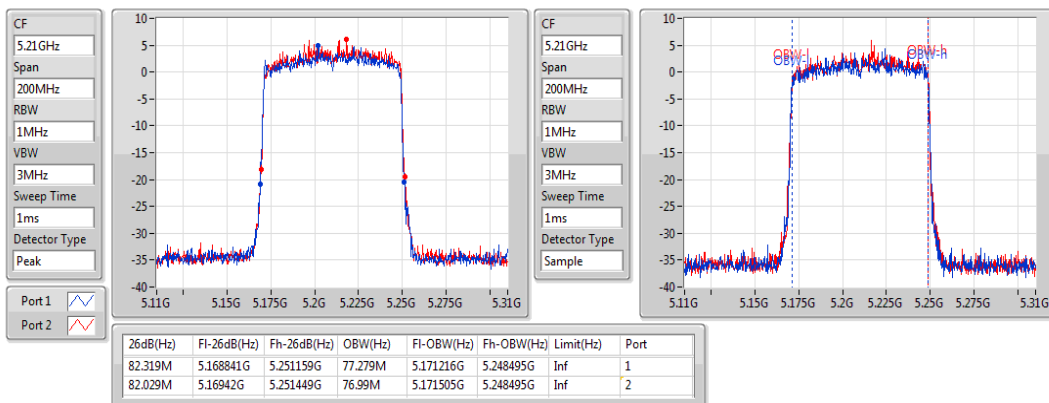
5795MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

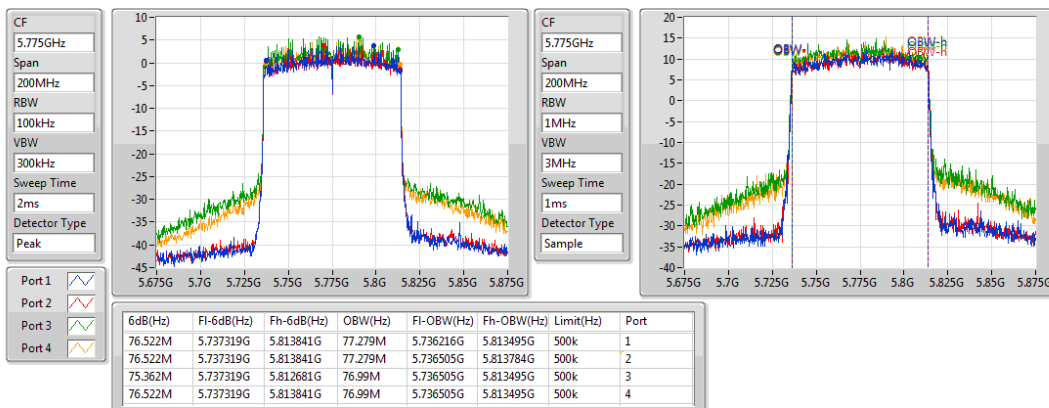
5210MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☒	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☐	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☐	Client devices	Conducted Power: 250 mW

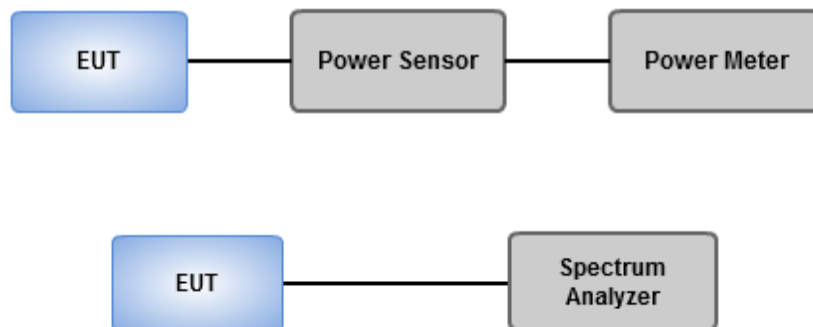
Frequency Band (MHz)	Limit
☒ 5725 ~ 5850	Conducted Power: 1 W
Note: "B" is the 26dB emission bandwidth in MHz.	

3.3.2 Test Procedures

Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Ambient Condition	21-23°C / 63-65%	Tested By	Brad Wu
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Non-beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.14	0.04111	21.44	0.13932
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	16.04	0.04018	21.34	0.13614
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	15.93	0.03917	21.23	0.13274
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	15.75	0.03758	21.05	0.12735
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	28.62	0.72778	35.42	3.48337
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	28.51	0.70958	35.31	3.39625
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	28.46	0.70146	35.26	3.35738
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	27.56	0.57016	34.36	2.72898

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	13.12	13.14	-	-	16.14	30.00	21.44	36.00
5200MHz	Pass	5.30	13.15	13.05	-	-	16.11	30.00	21.41	36.00
5240MHz	Pass	5.30	12.96	12.65	-	-	15.82	30.00	21.12	36.00
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	6.80	21.81	21.82	23.36	22.51	28.44	29.20	35.24	36.00
5785MHz	Pass	6.80	21.73	21.83	23.67	22.86	28.62	29.20	35.42	36.00
5825MHz	Pass	6.80	21.16	21.78	22.71	22.66	28.15	29.20	34.95	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	13.11	12.95	-	-	16.04	30.00	21.34	36.00
5200MHz	Pass	5.30	13.14	12.89	-	-	16.03	30.00	21.33	36.00
5240MHz	Pass	5.30	13.01	12.46	-	-	15.75	30.00	21.05	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	6.80	21.68	21.92	23.35	22.43	28.41	29.20	35.21	36.00
5785MHz	Pass	6.80	21.65	21.87	23.51	22.67	28.51	29.20	35.31	36.00
5825MHz	Pass	6.80	21.16	21.71	22.72	22.62	28.12	29.20	34.92	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.30	13.05	12.77	-	-	15.92	30.00	21.22	36.00
5230MHz	Pass	5.30	13.12	12.7	-	-	15.93	30.00	21.23	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	6.80	21.66	21.58	23.43	22.81	28.46	29.20	35.26	36.00
5795MHz	Pass	6.80	21.01	21.12	22.86	22.23	27.90	29.20	34.70	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.30	13.01	12.45	-	-	15.75	30.00	21.05	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	6.80	20.67	20.66	22.53	21.97	27.56	29.20	34.36	36.00

DG = Directional Gain;

Directional Gain of 5.725 ~ 5.85 GHz is 6.8dBi > 6dBi, so the limit shall be reduced to 30 dBm – (6.8dBi – 6dBi) = 29.2 dBm.

Port X = Port X output power

Beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX -OFDMA	13.03	0.02009	20.85	0.12162
802.11ax HEW40-BF_Nss1,(MCS0)_2TX -OFDMA	12.92	0.01959	20.74	0.11858
802.11ax HEW80-BF_Nss1,(MCS0)_2TX -OFDMA	12.74	0.01879	20.56	0.11376
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX -OFDMA	22.49	0.17742	34.25	2.66073
802.11ax HEW40-BF_Nss1,(MCS0)_4TX -OFDMA	22.44	0.17539	34.20	2.63027
802.11ax HEW80-BF_Nss1,(MCS0)_4TX -OFDMA	21.54	0.14256	33.30	2.13796

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.82	10.1	9.94	-	-	13.03	28.18	20.85	36.00
5200MHz	Pass	7.82	10.13	9.88	-	-	13.02	28.18	20.84	36.00
5240MHz	Pass	7.82	10	9.45	-	-	12.74	28.18	20.56	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	11.76	15.66	15.9	17.33	16.41	22.39	24.24	34.15	36.00
5785MHz	Pass	11.76	15.63	15.85	17.49	16.65	22.49	24.24	34.25	36.00
5825MHz	Pass	11.76	15.14	15.69	16.7	16.6	22.10	24.24	33.86	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.82	10.04	9.76	-	-	12.91	28.18	20.73	36.00
5230MHz	Pass	7.82	10.11	9.69	-	-	12.92	28.18	20.74	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	11.76	15.64	15.56	17.41	16.79	22.44	24.24	34.20	36.00
5795MHz	Pass	11.76	14.99	15.1	16.84	16.21	21.88	24.24	33.64	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7.82	10	9.44	-	-	12.74	28.18	20.56	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	11.76	14.65	14.64	16.51	15.95	21.54	24.24	33.30	36.00

DG = Directional Gain; **Port X** = Port X output power

For 5150~5250MHz:

Directional gain = $10 \times \log((10^{4.3/20} + 10^{5.3/20})^2 / 2) = 7.82 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to 30 dBm – (7.82 dBi – 6 dBi) = 28.18 dBm.

For 5725~5850MHz:

Directional gain = $10 \times \log((10^{4.9/20} + 10^{6.8/20} + 10^{4.8/20} + 10^{6.3/20})^2 / 4) = 11.76 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to 30 dBm – (11.76 dBi – 6 dBi) = 24.24 dBm.

3.3.5 Test Result of EIRP above 30°

Ambient Condition	21-23°C / 63-65%	Tested By	Brad Wu
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Non-beamforming mode

Mode	N _{TX}	Freq. (MHz)	Measured value of each antenna port (dBm)		Gain above 30° (dB)	E.I.R.P Power above 30° (dBm)	Total E.I.R.P above 30° (dBm)	E.I.R.P Limit (dBm)
11a	2	5180	ANT 1	13.12	5.2	18.32	20.87	21
			ANT 3	13.14	4.2	17.34		
11a	2	5200	ANT 1	13.15	5.2	18.35	20.85	21
			ANT 3	13.05	4.2	17.25		
11a	2	5240	ANT 1	12.96	5.2	18.16	20.56	21
			ANT 3	12.65	4.2	16.85		
11ax HE20 -OFDMA	2	5180	ANT 1	13.11	5.2	18.31	20.78	21
			ANT 3	12.95	4.2	17.15		
11ax HE20 -OFDMA	2	5200	ANT 1	13.14	5.2	18.34	20.77	21
			ANT 3	12.89	4.2	17.09		
11ax HE20 -OFDMA	2	5240	ANT 1	13.01	5.2	18.21	20.51	21
			ANT 3	12.46	4.2	16.66		
11ax HE40 -OFDMA	2	5190	ANT 1	13.05	5.2	18.25	20.67	21
			ANT 3	12.77	4.2	16.97		
11ax HE40 -OFDMA	2	5230	ANT 1	13.12	5.2	18.32	20.68	21
			ANT 3	12.7	4.2	16.9		
11ax HE80 -OFDMA	2	5210	ANT 1	13.01	5.2	18.21	20.51	21
			ANT 3	12.45	4.2	16.65		

Beamforming mode

Mode	N _{TX}	Freq. (MHz)	Measured value of each antenna port (dBm)		Directional Gain above 30° (dB)	Total E.I.R.P above 30° (dBm)	E.I.R.P Limit (dBm)
11ax HE20 -OFDMA	2	5180	ANT 1	10.1	7.72	20.75	21
			ANT 3	9.94			
11ax HE20 -OFDMA	2	5200	ANT 1	10.13	7.72	20.74	21
			ANT 3	9.88			
11ax HE20 -OFDMA	2	5240	ANT 1	10	7.72	20.46	21
			ANT 3	9.45			
11ax HE40 -OFDMA	2	5190	ANT 1	10.04	7.72	20.63	21
			ANT 3	9.76			
11ax HE40 -OFDMA	2	5230	ANT 1	10.11	7.72	20.64	21
			ANT 3	9.69			
11ax HE80 -OFDMA	2	5210	ANT 1	10	7.72	20.46	21
			ANT 3	9.44			

Directional gain = $10 \times \log((10^{5.2/20} + 10^{4.2/20})^2 / 2) = 7.72$ dBi

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☒	Outdoor access point	17 dBm / MHz
☐	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☐	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
☒	5725 ~ 5850	30 dBm /500 kHz

3.4.2 Test Procedures

For 5150 ~ 5250 MHz

Duty cycle $\geq 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $< 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

For 5725 ~ 5850 MHz

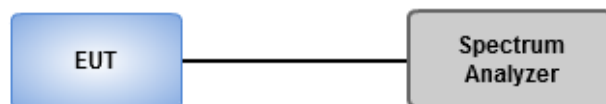
Duty cycle $\geq 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $< 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Ambient Condition	21-23°C / 63-65%	Tested By	Brad Wu
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Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	3.61	11.43
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	2.82	10.64
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	-0.46	7.36
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	-3.14	4.68
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	14.34	26.10
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	13.38	25.14
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	10.28	22.04
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	7.45	19.21

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.82	0.77	0.56	-	-	3.57	15.18	11.39	23.00
5200MHz	Pass	7.82	0.66	0.70	-	-	3.61	15.18	11.43	23.00
5240MHz	Pass	7.82	0.16	0.34	-	-	3.20	15.18	11.02	23.00
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	11.76	7.52	7.50	9.21	8.22	14.16	24.24	25.92	36.00
5785MHz	Pass	11.76	7.60	7.48	9.37	8.79	14.34	24.24	26.10	36.00
5825MHz	Pass	11.76	7.18	7.10	8.27	8.25	13.71	24.24	25.47	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.82	-0.66	0.74	-	-	2.82	15.18	10.64	23.00
5200MHz	Pass	7.82	-1.00	-0.57	-	-	2.14	15.18	9.96	23.00
5240MHz	Pass	7.82	-1.49	-0.99	-	-	1.68	15.18	9.50	23.00
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	11.76	7.04	6.82	8.22	7.40	13.17	24.24	24.93	36.00
5785MHz	Pass	11.76	6.98	6.96	8.65	7.98	13.38	24.24	25.14	36.00
5825MHz	Pass	11.76	6.49	6.82	7.94	7.56	12.93	24.24	24.69	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.82	-3.37	-3.12	-	-	-0.46	15.18	7.36	23.00
5230MHz	Pass	7.82	-3.71	-3.07	-	-	-0.48	15.18	7.34	23.00
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	11.76	3.96	3.72	5.39	4.73	10.28	24.24	22.04	36.00
5795MHz	Pass	11.76	3.44	3.42	5.07	4.58	9.95	24.24	21.71	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7.82	-6.23	-5.87	-	-	-3.14	15.18	4.68	23.00
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	11.76	0.83	0.76	2.55	1.92	7.45	24.24	19.21	36.00

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

DG = Directional Gain;

For 5150~5250MHz:

Directional gain = $10 \times \log((10^{4.3/20} + 10^{5.3/20})^2 / 2) = 7.82 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to $17 \text{ dBm} - (7.82 \text{ dBi} - 6 \text{ dBi}) = 15.18 \text{ dBm}$.

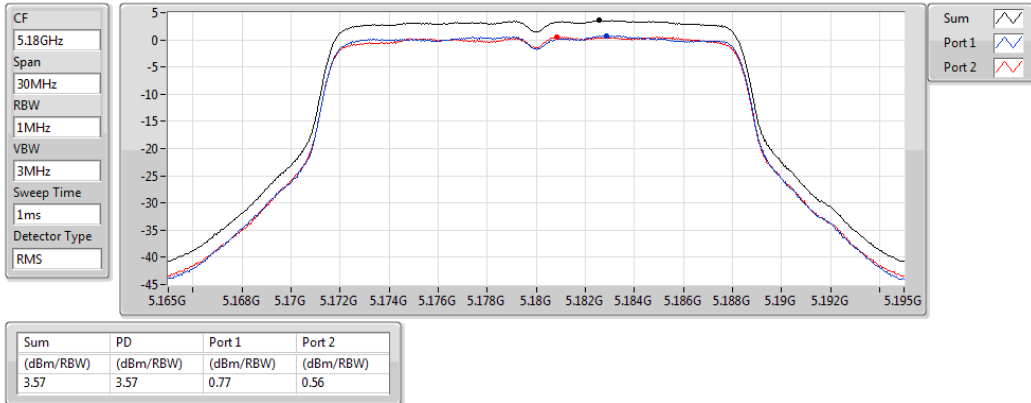
For 5725~5850MHz:

Directional gain = $10 \times \log((10^{4.9/20} + 10^{6.8/20} + 10^{4.8/20} + 10^{6.3/20})^2 / 4) = 11.76 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to $30 \text{ dBm} - (11.76 \text{ dBi} - 6 \text{ dBi}) = 24.24 \text{ dBm}$.

802.11a_Nss1,(6Mbps)_2TX

PSD

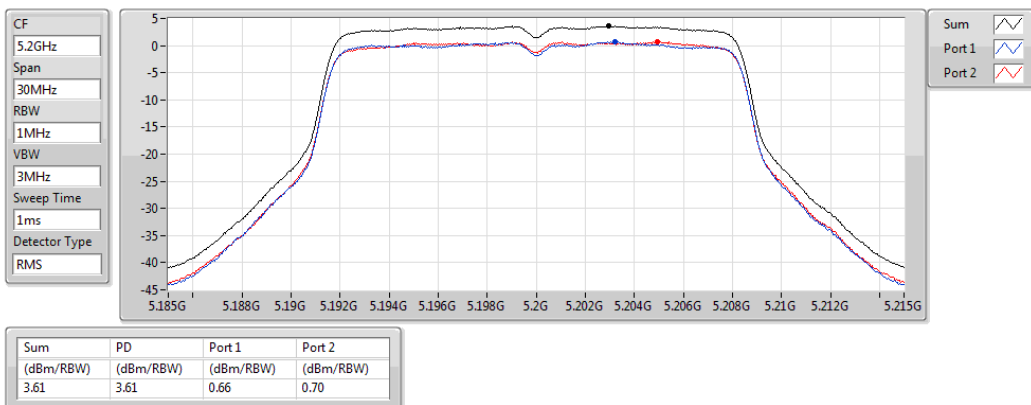
5180MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

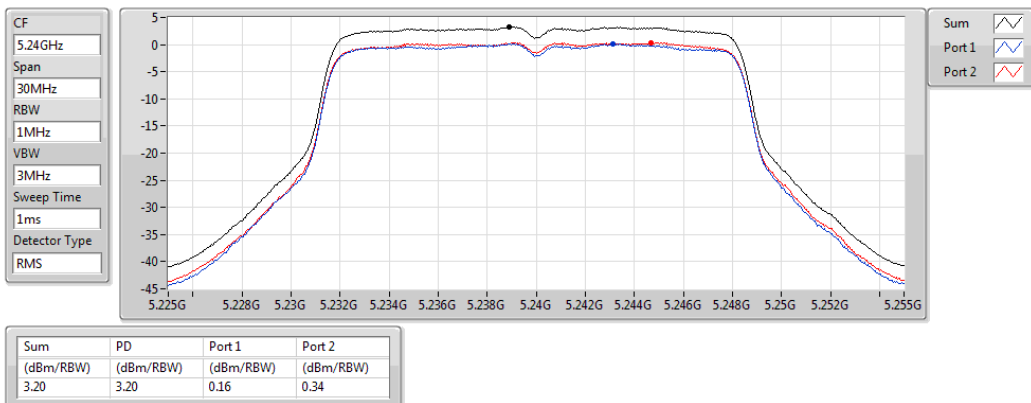
5200MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

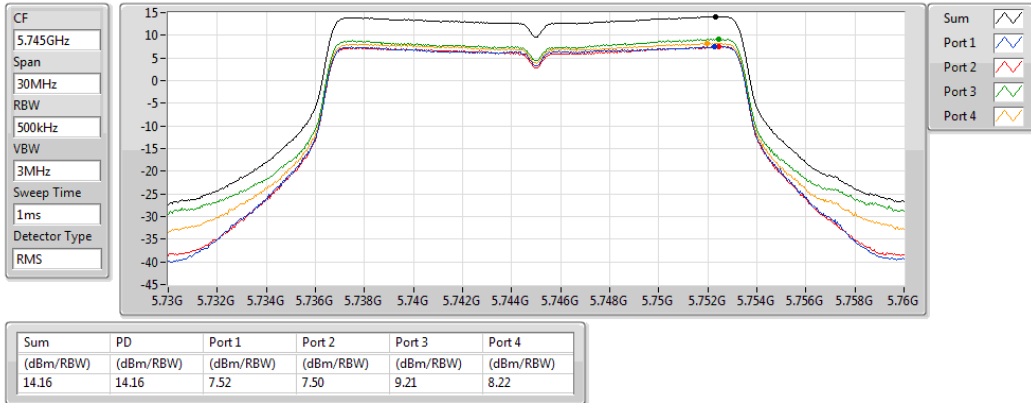
5240MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

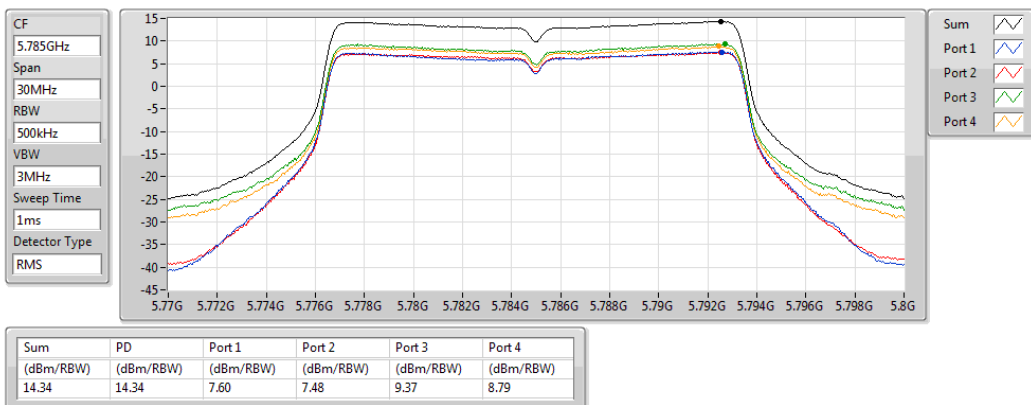
5745MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

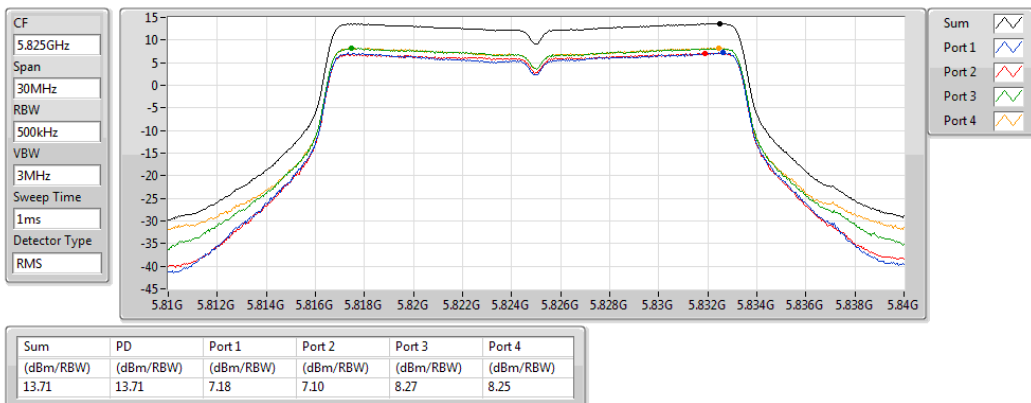
5785MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

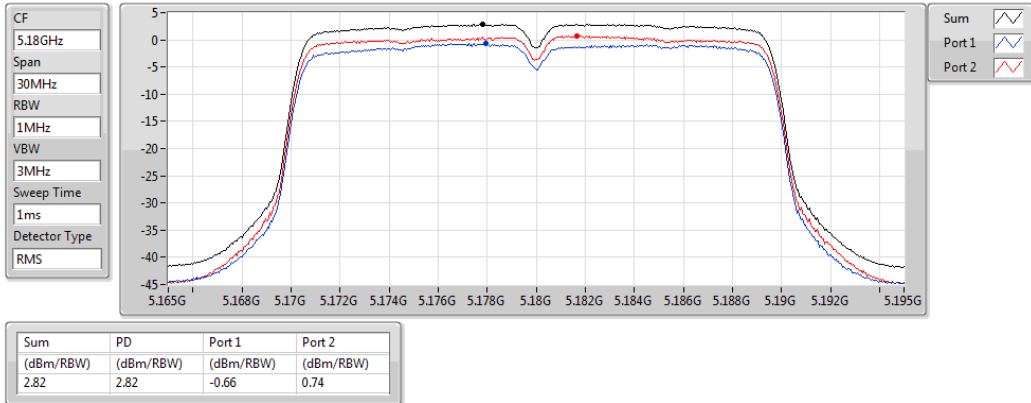
5825MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

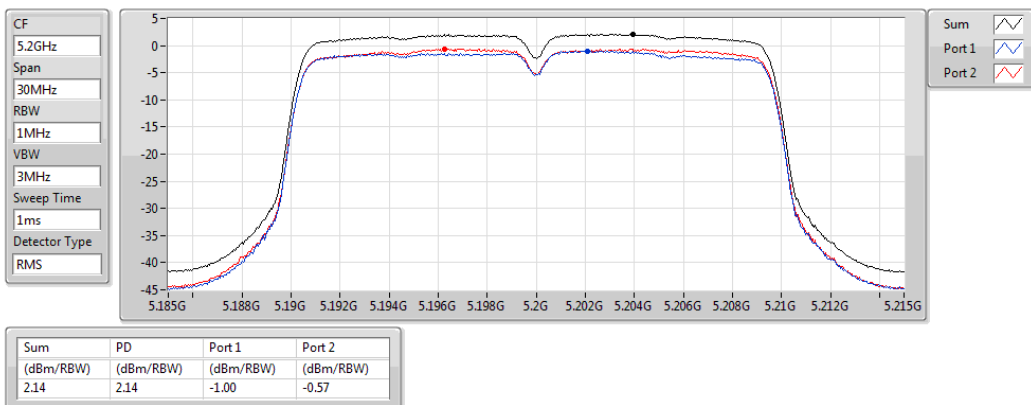
5180MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

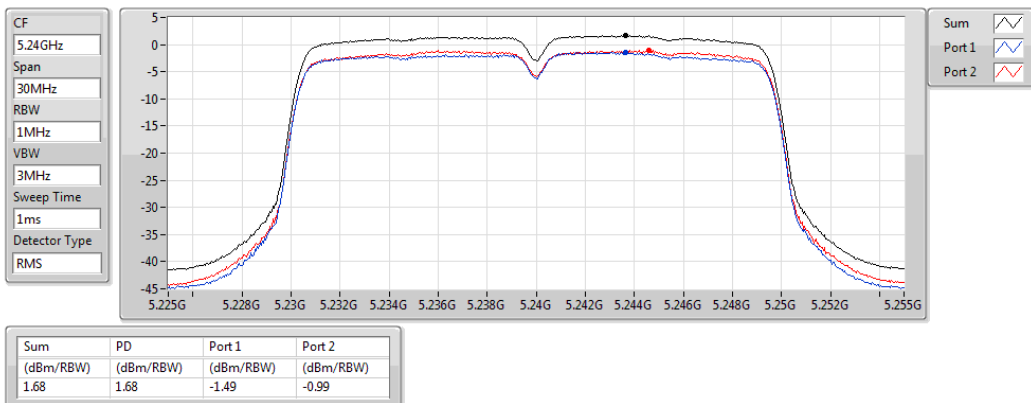
5200MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

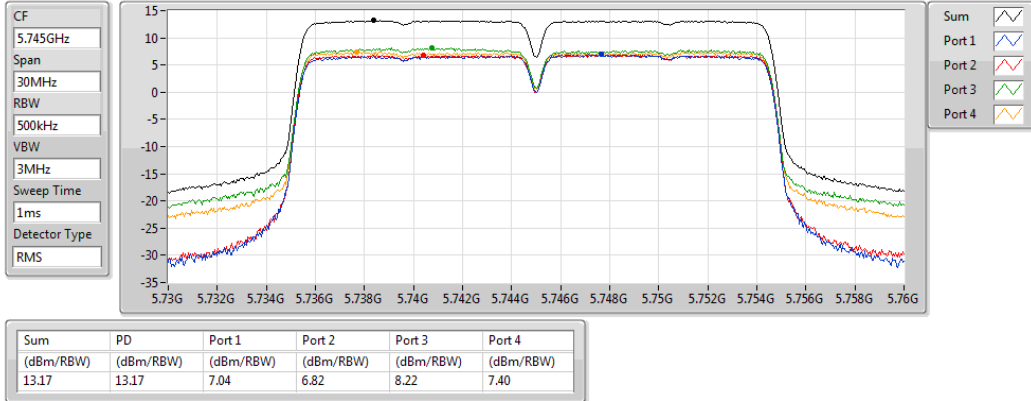
5240MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

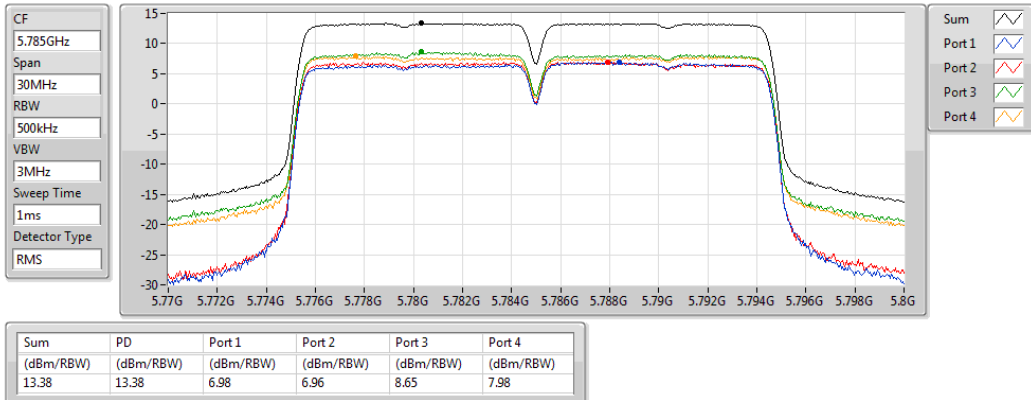
5745MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

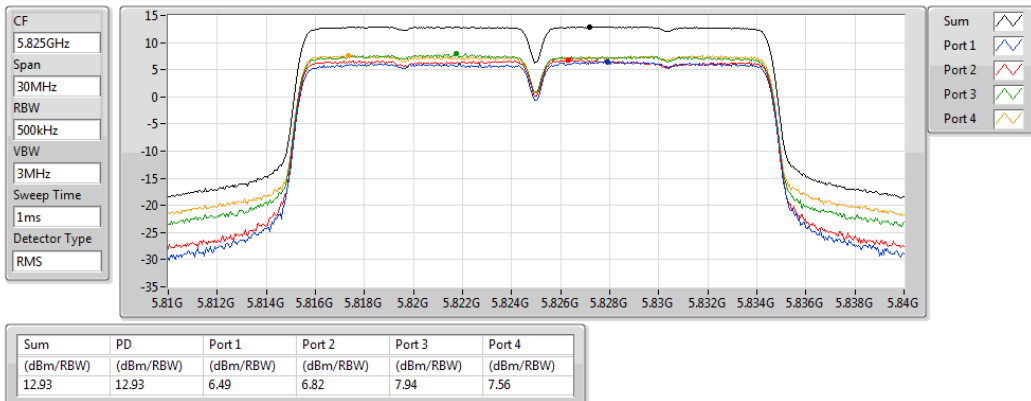
5785MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

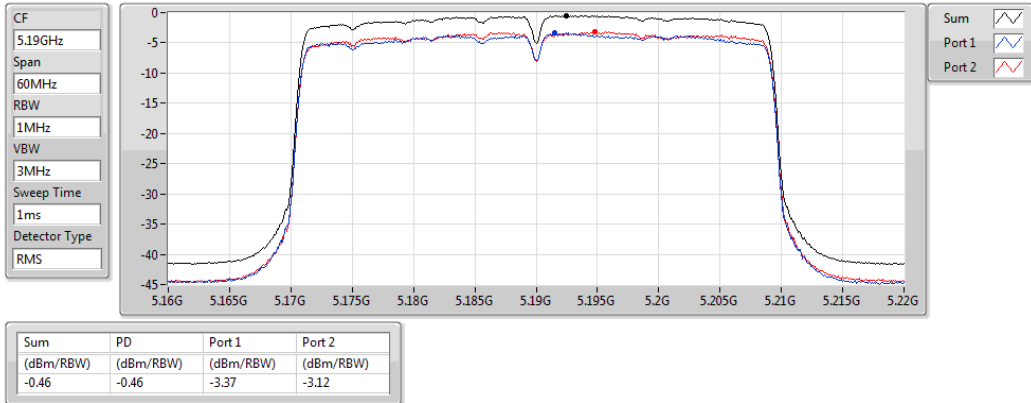
5825MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

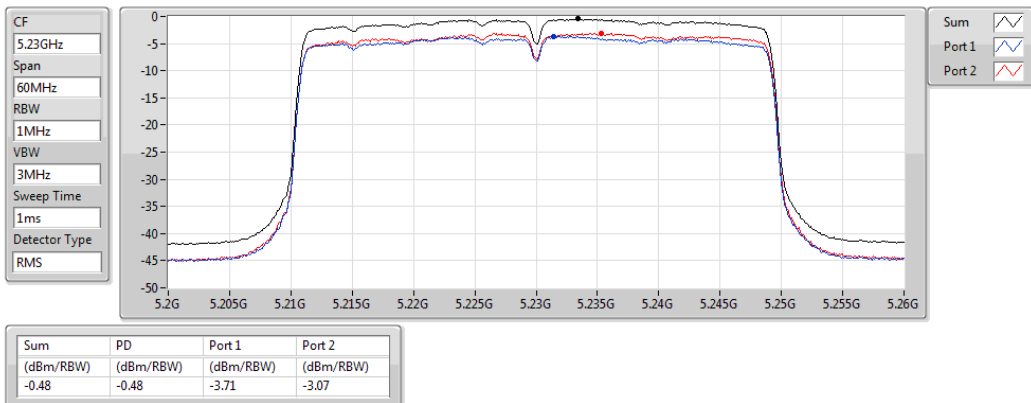
5190MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

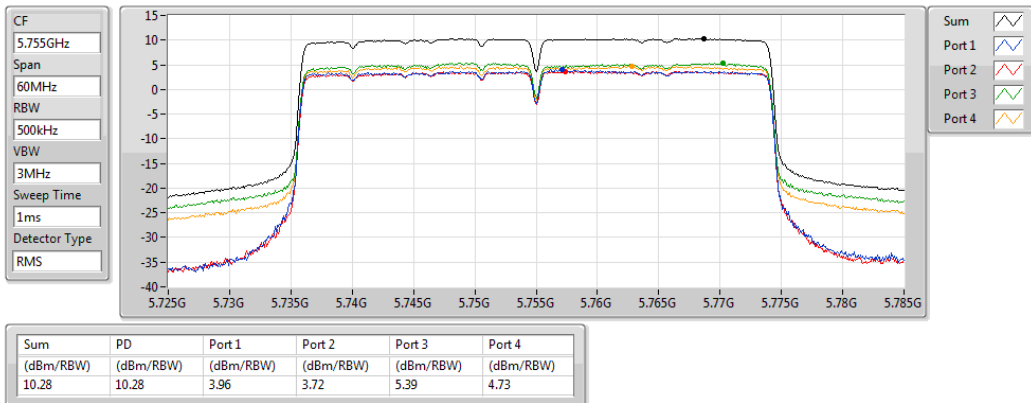
5230MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

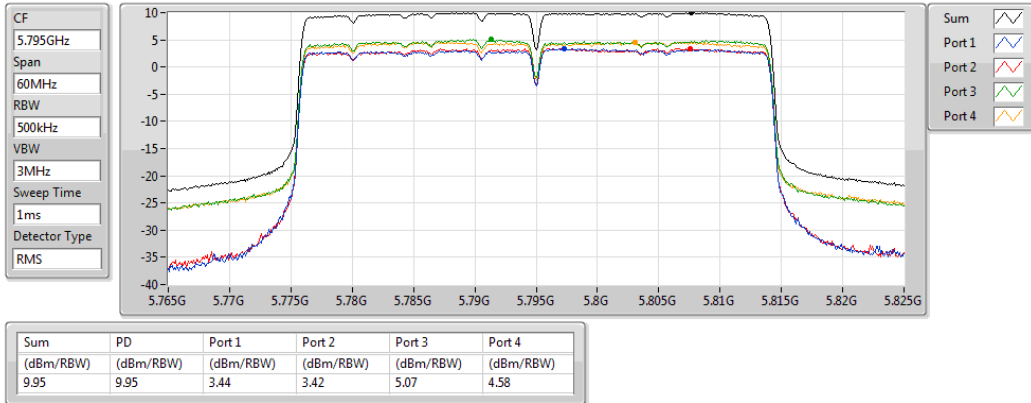
5755MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

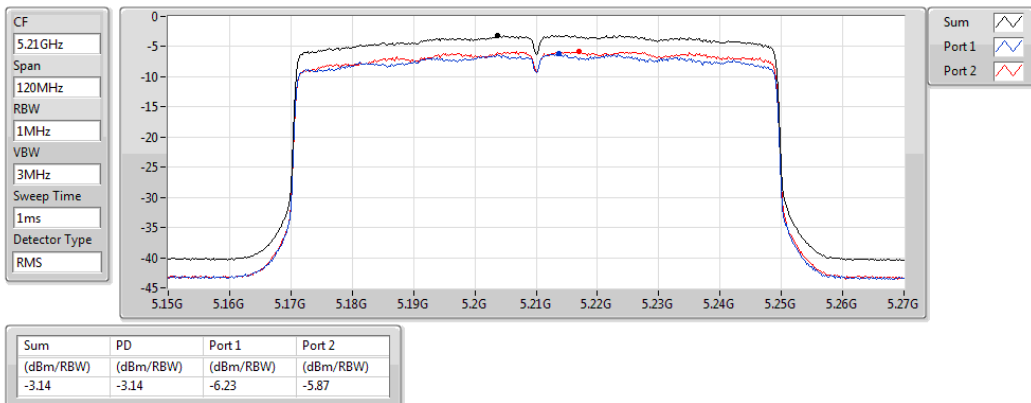
5795MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

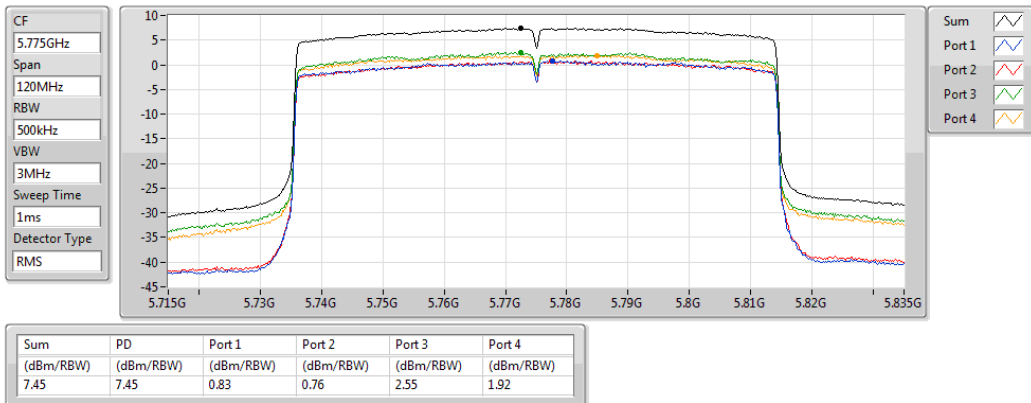
5210MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5775MHz



3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

3.5.2 Test Procedures

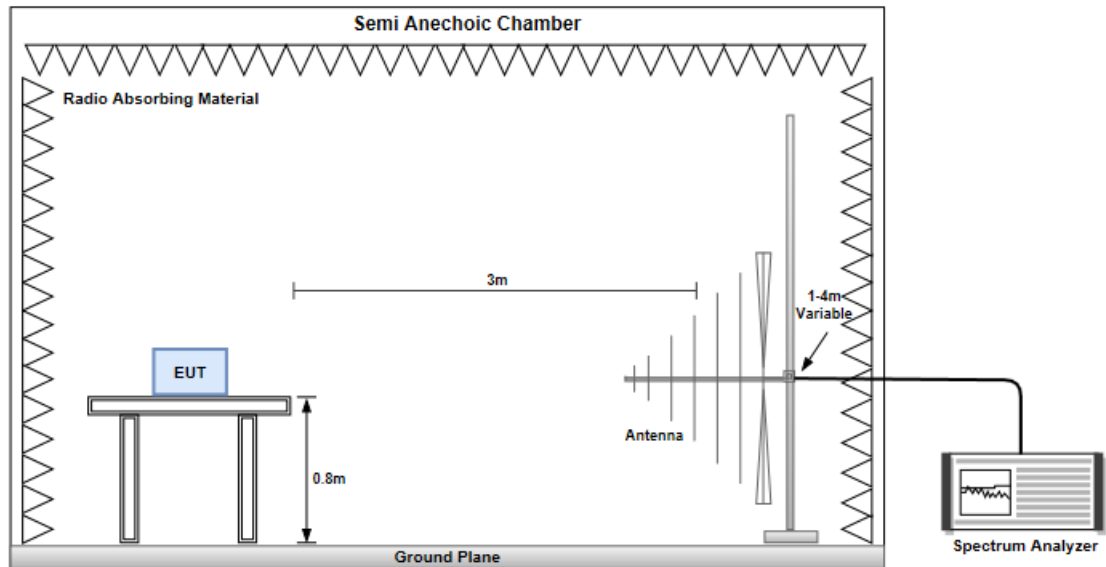
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

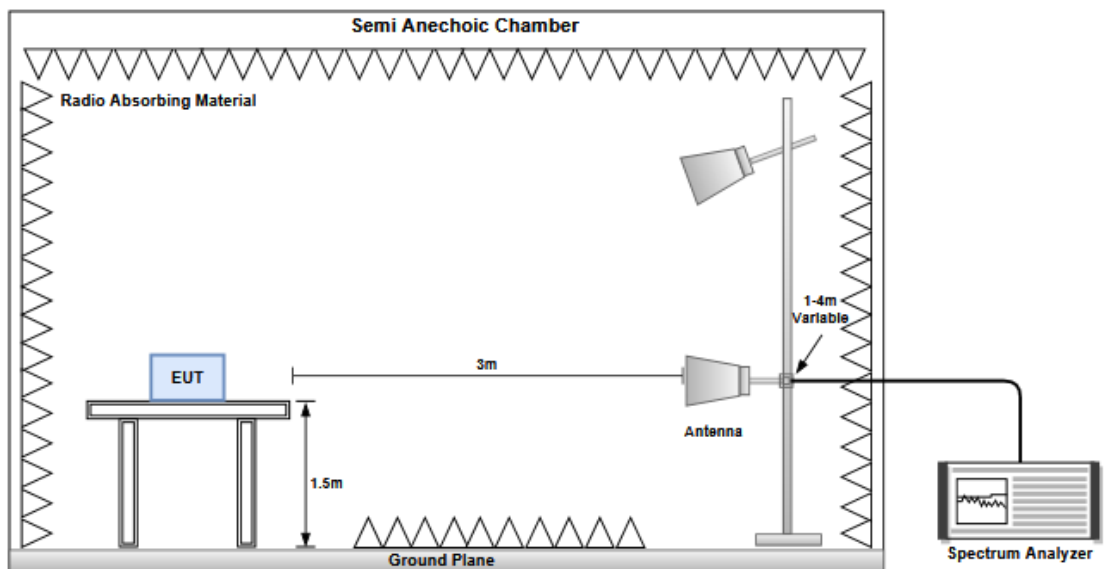
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65			
Level (dBUV/m)			

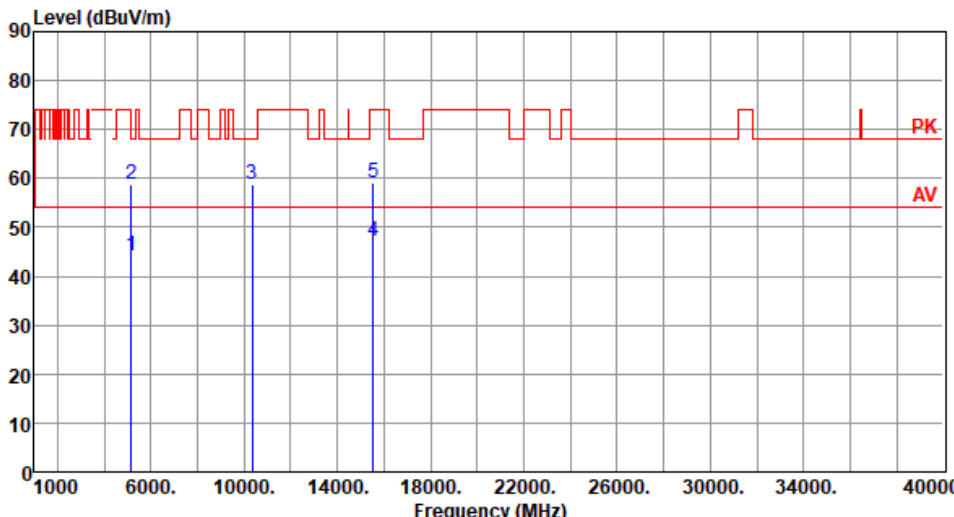
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65			
Level (dBuV/m) <			

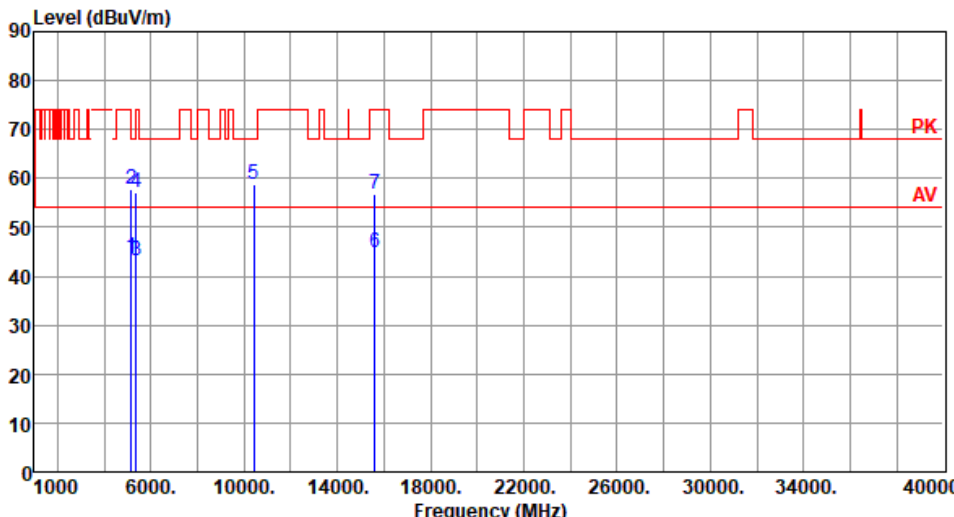
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65			
Level (dBUV/m)			

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65			
Level (dBUV/m) <			

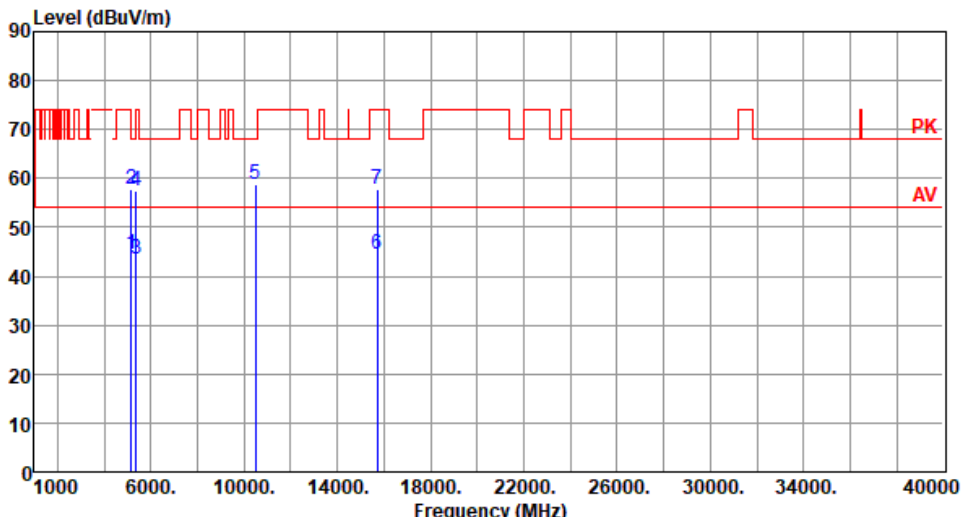
3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5180																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																			
Level (dBuV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>44.32</td><td>54.00</td><td>-9.68</td><td>40.11</td><td>4.21</td><td>Average</td><td>333</td><td>201</td></tr><tr><td>2</td><td>5150.00</td><td>58.76</td><td>74.00</td><td>-15.24</td><td>54.55</td><td>4.21</td><td>Peak</td><td>333</td><td>201</td></tr><tr><td>3</td><td>10360.00</td><td>58.95</td><td>68.20</td><td>-9.25</td><td>44.96</td><td>13.99</td><td>Peak</td><td>100</td><td>115</td></tr><tr><td>4</td><td>15540.00</td><td>47.06</td><td>54.00</td><td>-6.94</td><td>32.88</td><td>14.18</td><td>Average</td><td>100</td><td>118</td></tr><tr><td>5</td><td>15540.00</td><td>58.96</td><td>74.00</td><td>-15.04</td><td>44.78</td><td>14.18</td><td>Peak</td><td>100</td><td>118</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table			dBuV/m			dBuV			cm	deg	1	5150.00	44.32	54.00	-9.68	40.11	4.21	Average	333	201	2	5150.00	58.76	74.00	-15.24	54.55	4.21	Peak	333	201	3	10360.00	58.95	68.20	-9.25	44.96	13.99	Peak	100	115	4	15540.00	47.06	54.00	-6.94	32.88	14.18	Average	100	118	5	15540.00	58.96	74.00	-15.04	44.78	14.18	Peak	100	118
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																										
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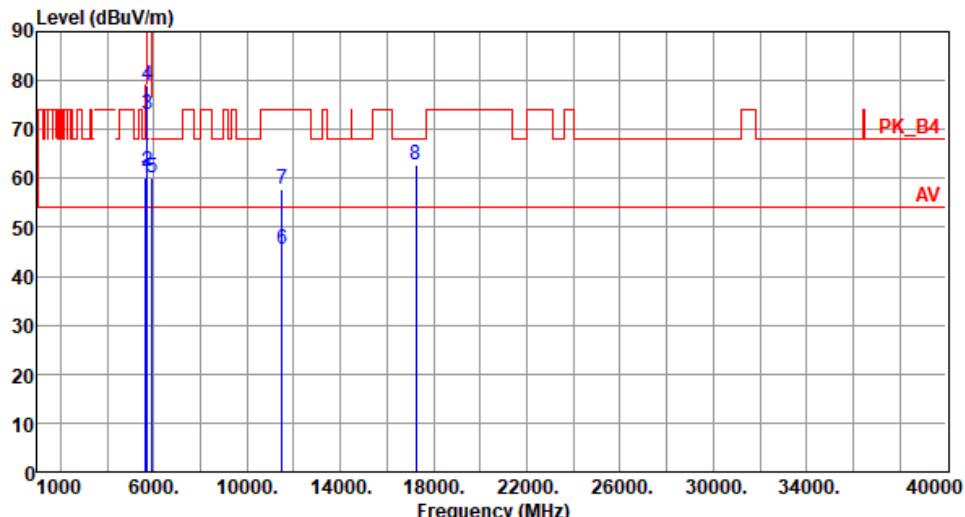
Modulation	11a	Test Freq. (MHz)	5200																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																							
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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Modulation	11a		Test Freq. (MHz)		5200																																																																																	
Polarization	Vertical																																																																																					
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																						
Level (dBuV/m) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>44.76</td><td>54.00</td><td>-9.24</td><td>40.55</td><td>4.21</td><td>Average</td><td>357</td><td>191</td></tr><tr><td>2</td><td>5150.00</td><td>58.73</td><td>74.00</td><td>-15.27</td><td>54.52</td><td>4.21</td><td>Peak</td><td>357</td><td>191</td></tr><tr><td>3</td><td>5350.00</td><td>44.53</td><td>54.00</td><td>-9.47</td><td>40.65</td><td>3.88</td><td>Average</td><td>357</td><td>191</td></tr><tr><td>4</td><td>5350.00</td><td>58.44</td><td>74.00</td><td>-15.56</td><td>54.56</td><td>3.88</td><td>Peak</td><td>357</td><td>191</td></tr><tr><td>5</td><td>10400.00</td><td>59.17</td><td>68.20</td><td>-9.03</td><td>45.11</td><td>14.06</td><td>Peak</td><td>100</td><td>102</td></tr><tr><td>6</td><td>15600.00</td><td>45.97</td><td>54.00</td><td>-8.03</td><td>31.88</td><td>14.09</td><td>Average</td><td>100</td><td>104</td></tr><tr><td>7</td><td>15600.00</td><td>58.97</td><td>74.00</td><td>-15.03</td><td>44.88</td><td>14.09</td><td>Peak</td><td>100</td><td>104</td></tr></tbody></table>								Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	44.76	54.00	-9.24	40.55	4.21	Average	357	191	2	5150.00	58.73	74.00	-15.27	54.52	4.21	Peak	357	191	3	5350.00	44.53	54.00	-9.47	40.65	3.88	Average	357	191	4	5350.00	58.44	74.00	-15.56	54.56	3.88	Peak	357	191	5	10400.00	59.17	68.20	-9.03	45.11	14.06	Peak	100	102	6	15600.00	45.97	54.00	-8.03	31.88	14.09	Average	100	104	7	15600.00	58.97	74.00	-15.03	44.88	14.09	Peak	100	104
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Modulation	11a	Test Freq. (MHz)	5240																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																							
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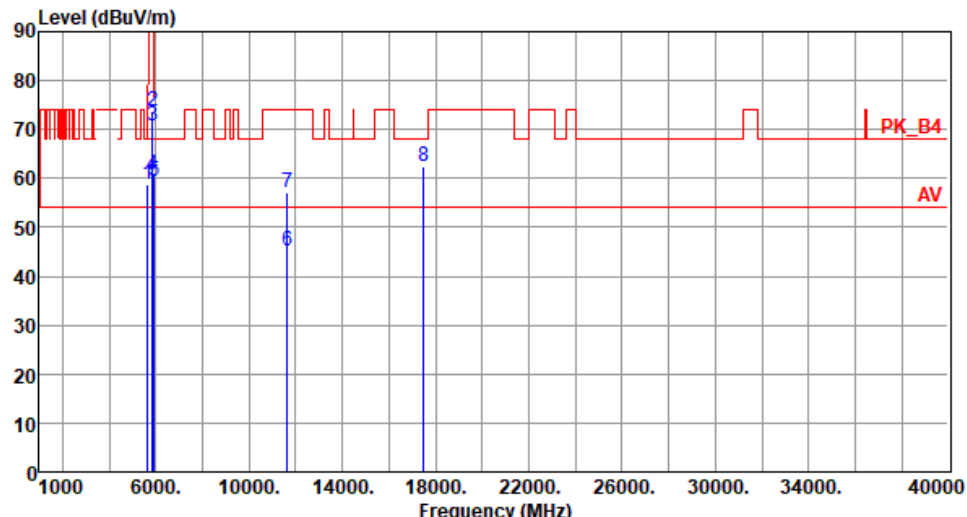
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):63			
Level (dBuV/m)			

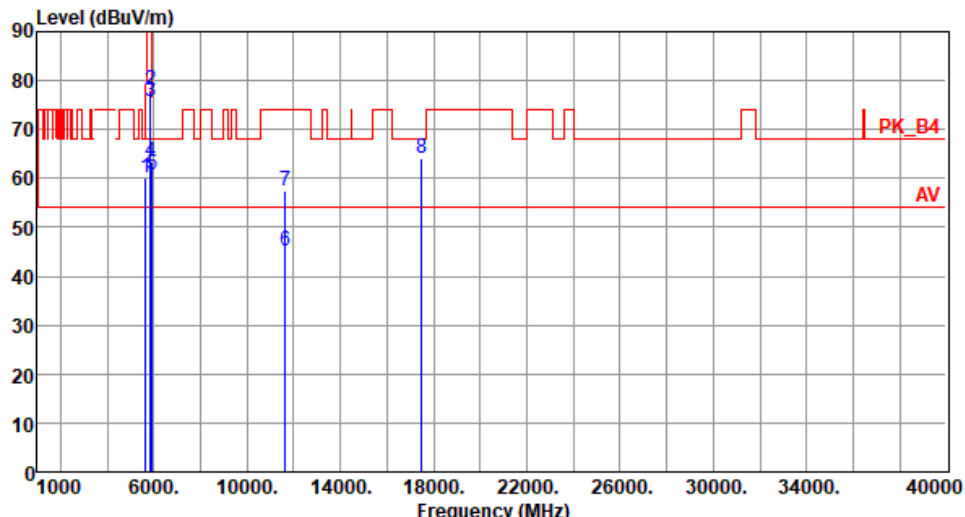
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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2	5700.00	61.52	105.20	-43.68	56.85	4.67	Peak	164	215																																																																																																								
3	5720.00	73.13	110.80	-37.67	68.36	4.77	Peak	164	215																																																																																																								
4	5725.00	79.08	122.20	-43.12	74.28	4.80	Peak	164	215																																																																																																								
5	5925.00	60.19	68.20	-8.01	54.76	5.43	Peak	164	215																																																																																																								
6	11490.00	45.61	54.00	-8.39	31.68	13.93	Average	155	352																																																																																																								
7	11490.00	57.78	74.00	-16.22	43.85	13.93	Peak	155	352																																																																																																								
8	17235.00	62.77	68.20	-5.43	45.45	17.32	Peak	309	42																																																																																																								
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																																	

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):63			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):63			
Level (dBuV/m) <			

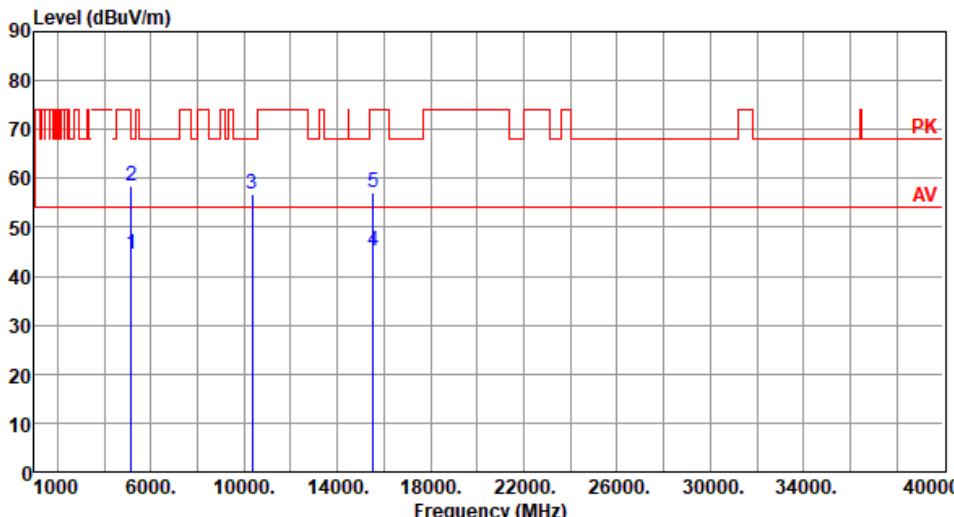
Modulation	11a	Test Freq. (MHz)	5825						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):25 Humidity(%):63									
Level (dBuV/m)  Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5650.00	58.75	68.20	-9.45	54.33	4.42	Peak	105	34
2	5850.00	73.78	122.20	-48.42	68.59	5.19	Peak	105	34
3	5855.00	70.67	110.80	-40.13	65.46	5.21	Peak	105	34
4	5875.00	60.76	105.20	-44.44	55.46	5.30	Peak	105	34
5	5925.00	59.57	68.20	-8.63	54.14	5.43	Peak	105	34
6	11650.00	45.17	54.00	-8.83	31.59	13.58	Average	105	40
7	11650.00	56.97	74.00	-17.03	43.39	13.58	Peak	105	40
8	17475.00	62.29	68.20	-5.91	43.55	18.74	Peak	282	26

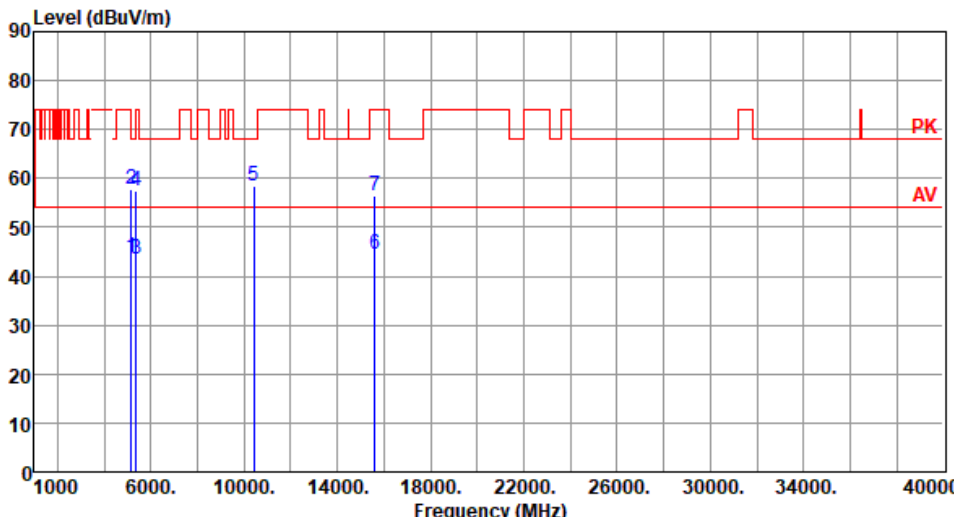
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

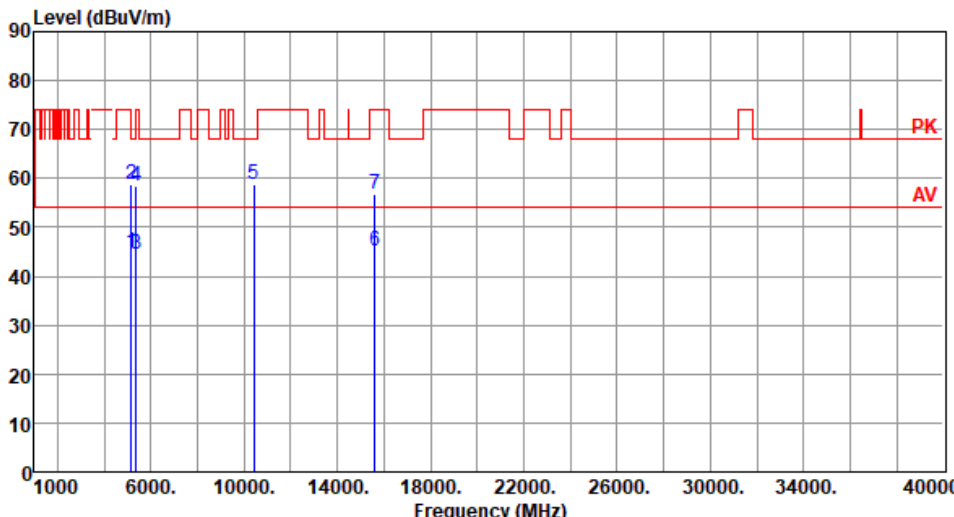
Modulation	11a	Test Freq. (MHz)	5825																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Akun Chung Temperature(°C):25 Humidity(%):63																																																																																																																	
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5650.00</td><td>60.12</td><td>68.20</td><td>-8.08</td><td>55.70</td><td>4.42</td><td>Peak</td><td>102</td><td>220</td></tr><tr><td>2</td><td>5850.00</td><td>78.06</td><td>122.20</td><td>-44.14</td><td>72.87</td><td>5.19</td><td>Peak</td><td>102</td><td>220</td></tr><tr><td>3</td><td>5855.00</td><td>75.77</td><td>110.80</td><td>-35.03</td><td>70.56</td><td>5.21</td><td>Peak</td><td>102</td><td>220</td></tr><tr><td>4</td><td>5875.00</td><td>63.28</td><td>105.20</td><td>-41.92</td><td>57.98</td><td>5.30</td><td>Peak</td><td>102</td><td>220</td></tr><tr><td>5</td><td>5925.00</td><td>60.86</td><td>68.20</td><td>-7.34</td><td>55.43</td><td>5.43</td><td>Peak</td><td>102</td><td>220</td></tr><tr><td>6</td><td>11650.00</td><td>45.30</td><td>54.00</td><td>-8.70</td><td>31.72</td><td>13.58</td><td>Average</td><td>157</td><td>359</td></tr><tr><td>7</td><td>11650.00</td><td>57.33</td><td>74.00</td><td>-16.67</td><td>43.75</td><td>13.58</td><td>Peak</td><td>157</td><td>359</td></tr><tr><td>8</td><td>17475.00</td><td>64.16</td><td>68.20</td><td>-4.04</td><td>45.42</td><td>18.74</td><td>Peak</td><td>306</td><td>36</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5650.00	60.12	68.20	-8.08	55.70	4.42	Peak	102	220	2	5850.00	78.06	122.20	-44.14	72.87	5.19	Peak	102	220	3	5855.00	75.77	110.80	-35.03	70.56	5.21	Peak	102	220	4	5875.00	63.28	105.20	-41.92	57.98	5.30	Peak	102	220	5	5925.00	60.86	68.20	-7.34	55.43	5.43	Peak	102	220	6	11650.00	45.30	54.00	-8.70	31.72	13.58	Average	157	359	7	11650.00	57.33	74.00	-16.67	43.75	13.58	Peak	157	359	8	17475.00	64.16	68.20	-4.04	45.42	18.74	Peak	306	36
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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2	5850.00	78.06	122.20	-44.14	72.87	5.19	Peak	102	220																																																																																																								
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3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE20-OFDMA

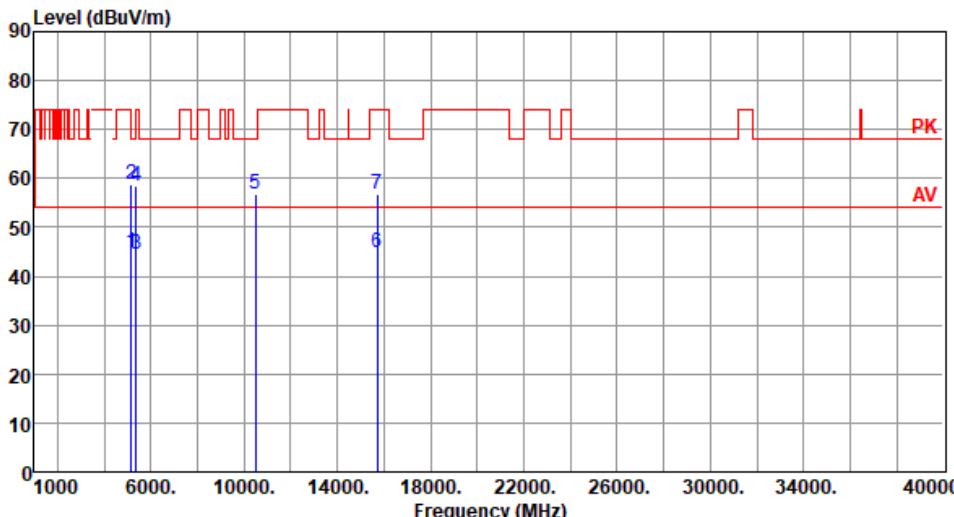
Modulation	ax HE20-OFDMA		Test Freq. (MHz)		5180	
Polarization	Horizontal					
Test By :Akun Chung Temperature(°C):23 Humidity(%):69						
Level (dBuV/m) <						

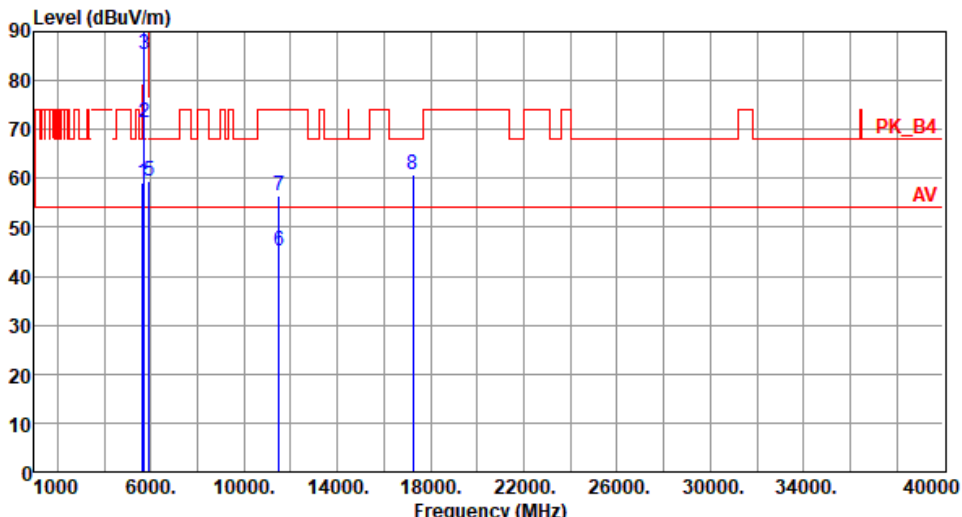
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5180																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																			
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>44.44</td><td>54.00</td><td>-9.56</td><td>40.23</td><td>4.21</td><td>Average</td><td>338</td><td>203</td></tr><tr><td>2</td><td>5150.00</td><td>58.47</td><td>74.00</td><td>-15.53</td><td>54.26</td><td>4.21</td><td>Peak</td><td>338</td><td>203</td></tr><tr><td>3</td><td>10360.00</td><td>56.87</td><td>68.20</td><td>-11.33</td><td>42.88</td><td>13.99</td><td>Peak</td><td>100</td><td>107</td></tr><tr><td>4</td><td>15540.00</td><td>45.06</td><td>54.00</td><td>-8.94</td><td>30.88</td><td>14.18</td><td>Average</td><td>100</td><td>101</td></tr><tr><td>5</td><td>15540.00</td><td>56.98</td><td>74.00</td><td>-17.02</td><td>42.80</td><td>14.18</td><td>Peak</td><td>100</td><td>101</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table			dBuV/m			dBuV			cm	deg	1	5150.00	44.44	54.00	-9.56	40.23	4.21	Average	338	203	2	5150.00	58.47	74.00	-15.53	54.26	4.21	Peak	338	203	3	10360.00	56.87	68.20	-11.33	42.88	13.99	Peak	100	107	4	15540.00	45.06	54.00	-8.94	30.88	14.18	Average	100	101	5	15540.00	56.98	74.00	-17.02	42.80	14.18	Peak	100	101
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																										
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																										
		dBuV/m			dBuV			cm	deg																																																																										
1	5150.00	44.44	54.00	-9.56	40.23	4.21	Average	338	203																																																																										
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3	10360.00	56.87	68.20	-11.33	42.88	13.99	Peak	100	107																																																																										
4	15540.00	45.06	54.00	-8.94	30.88	14.18	Average	100	101																																																																										
5	15540.00	56.98	74.00	-17.02	42.80	14.18	Peak	100	101																																																																										
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																			

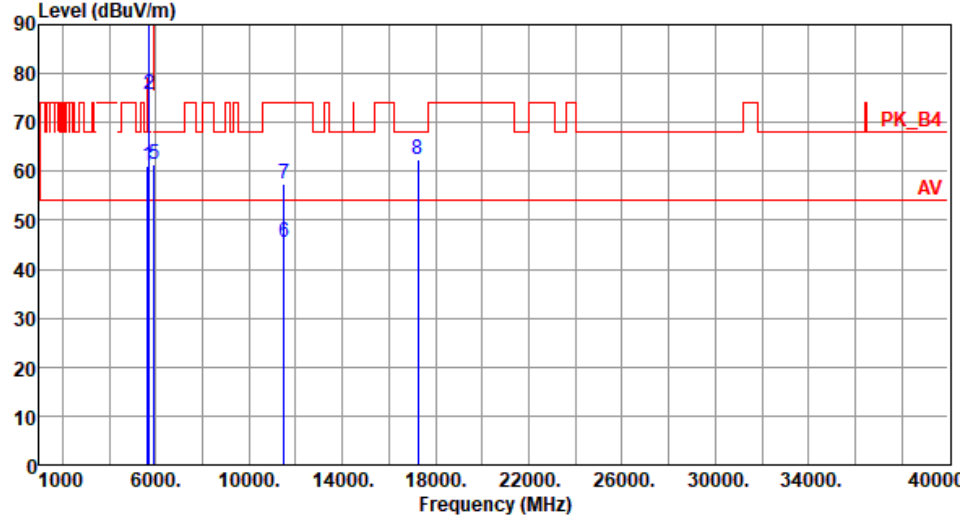
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>43.88</td><td>54.00</td><td>-10.12</td><td>39.67</td><td>4.21</td><td>Average</td><td>100</td><td>294</td></tr><tr><td>2</td><td>5150.00</td><td>57.88</td><td>74.00</td><td>-16.12</td><td>53.67</td><td>4.21</td><td>Peak</td><td>100</td><td>294</td></tr><tr><td>3</td><td>5350.00</td><td>43.56</td><td>54.00</td><td>-10.44</td><td>39.68</td><td>3.88</td><td>Average</td><td>100</td><td>294</td></tr><tr><td>4</td><td>5350.00</td><td>57.52</td><td>74.00</td><td>-16.48</td><td>53.64</td><td>3.88</td><td>Peak</td><td>100</td><td>294</td></tr><tr><td>5</td><td>10400.00</td><td>58.50</td><td>68.20</td><td>-9.70</td><td>44.44</td><td>14.06</td><td>Peak</td><td>100</td><td>50</td></tr><tr><td>6</td><td>15600.00</td><td>44.57</td><td>54.00</td><td>-9.43</td><td>30.48</td><td>14.09</td><td>Average</td><td>100</td><td>55</td></tr><tr><td>7</td><td>15600.00</td><td>56.57</td><td>74.00</td><td>-17.43</td><td>42.48</td><td>14.09</td><td>Peak</td><td>100</td><td>55</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5150.00	43.88	54.00	-10.12	39.67	4.21	Average	100	294	2	5150.00	57.88	74.00	-16.12	53.67	4.21	Peak	100	294	3	5350.00	43.56	54.00	-10.44	39.68	3.88	Average	100	294	4	5350.00	57.52	74.00	-16.48	53.64	3.88	Peak	100	294	5	10400.00	58.50	68.20	-9.70	44.44	14.06	Peak	100	50	6	15600.00	44.57	54.00	-9.43	30.48	14.09	Average	100	55	7	15600.00	56.57	74.00	-17.43	42.48	14.09	Peak	100	55
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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								cm	deg																																																																																														
1	5150.00	43.88	54.00	-10.12	39.67	4.21	Average	100	294																																																																																														
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3	5350.00	43.56	54.00	-10.44	39.68	3.88	Average	100	294																																																																																														
4	5350.00	57.52	74.00	-16.48	53.64	3.88	Peak	100	294																																																																																														
5	10400.00	58.50	68.20	-9.70	44.44	14.06	Peak	100	50																																																																																														
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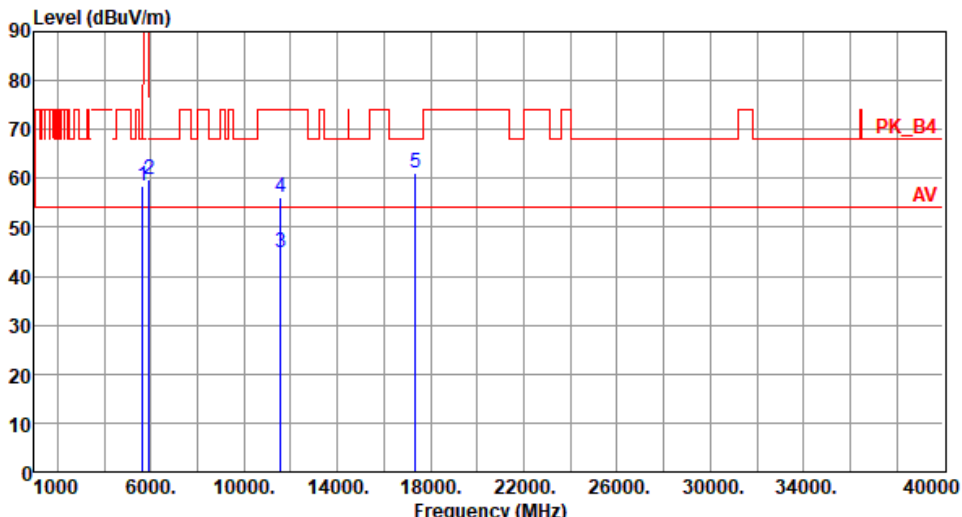
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																			
Level (dBUV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>44.87</td><td>54.00</td><td>-9.13</td><td>40.66</td><td>4.21</td><td>Average</td><td>355</td><td>181</td></tr><tr><td>2</td><td>5150.00</td><td>58.89</td><td>74.00</td><td>-15.11</td><td>54.68</td><td>4.21</td><td>Peak</td><td>355</td><td>181</td></tr><tr><td>3</td><td>5350.00</td><td>44.59</td><td>54.00</td><td>-9.41</td><td>40.71</td><td>3.88</td><td>Average</td><td>355</td><td>181</td></tr><tr><td>4</td><td>5350.00</td><td>58.58</td><td>74.00</td><td>-15.42</td><td>54.70</td><td>3.88</td><td>Peak</td><td>355</td><td>181</td></tr><tr><td>5</td><td>10400.00</td><td>58.91</td><td>68.20</td><td>-9.29</td><td>44.85</td><td>14.06</td><td>Peak</td><td>100</td><td>99</td></tr><tr><td>6</td><td>15600.00</td><td>45.04</td><td>54.00</td><td>-8.96</td><td>30.95</td><td>14.09</td><td>Average</td><td>100</td><td>108</td></tr><tr><td>7</td><td>15600.00</td><td>56.94</td><td>74.00</td><td>-17.06</td><td>42.85</td><td>14.09</td><td>Peak</td><td>100</td><td>108</td></tr></tbody></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	44.87	54.00	-9.13	40.66	4.21	Average	355	181	2	5150.00	58.89	74.00	-15.11	54.68	4.21	Peak	355	181	3	5350.00	44.59	54.00	-9.41	40.71	3.88	Average	355	181	4	5350.00	58.58	74.00	-15.42	54.70	3.88	Peak	355	181	5	10400.00	58.91	68.20	-9.29	44.85	14.06	Peak	100	99	6	15600.00	45.04	54.00	-8.96	30.95	14.09	Average	100	108	7	15600.00	56.94	74.00	-17.06	42.85	14.09	Peak	100	108
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																										
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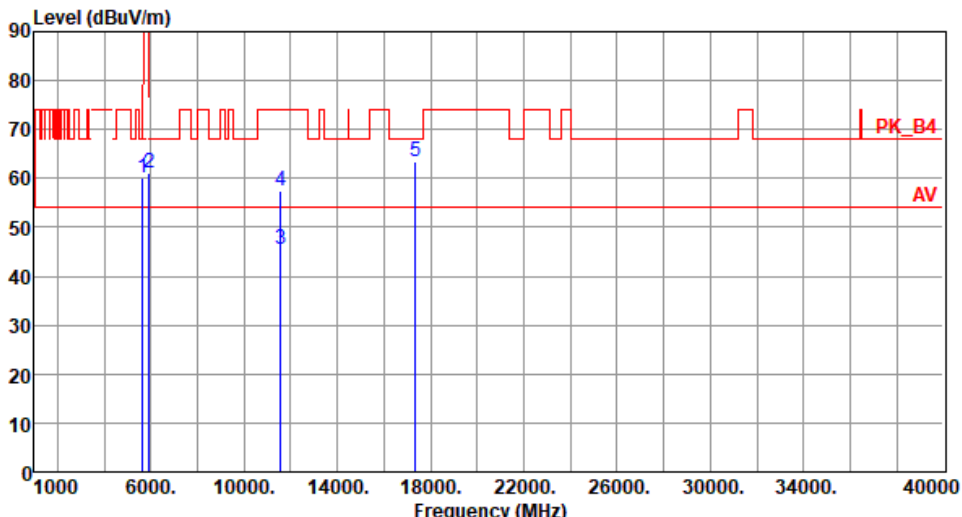
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m)			

Modulation	ax HE20-OFDMA		Test Freq. (MHz)		5240																																																																																																					
Polarization	Vertical																																																																																																									
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																										
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>44.89</td><td>54.00</td><td>-9.11</td><td>40.68</td><td>4.21</td><td>Average</td><td>340</td><td>201</td></tr><tr><td>2</td><td>5150.00</td><td>58.79</td><td>74.00</td><td>-15.21</td><td>54.58</td><td>4.21</td><td>Peak</td><td>340</td><td>201</td></tr><tr><td>3</td><td>5350.00</td><td>44.46</td><td>54.00</td><td>-9.54</td><td>40.58</td><td>3.88</td><td>Average</td><td>340</td><td>201</td></tr><tr><td>4</td><td>5350.00</td><td>58.40</td><td>74.00</td><td>-15.60</td><td>54.52</td><td>3.88</td><td>Peak</td><td>340</td><td>201</td></tr><tr><td>5</td><td>10480.00</td><td>56.89</td><td>68.20</td><td>-11.31</td><td>42.78</td><td>14.11</td><td>Peak</td><td>100</td><td>109</td></tr><tr><td>6</td><td>15720.00</td><td>44.79</td><td>54.00</td><td>-9.21</td><td>30.81</td><td>13.98</td><td>Average</td><td>100</td><td>105</td></tr><tr><td>7</td><td>15720.00</td><td>56.84</td><td>74.00</td><td>-17.16</td><td>42.86</td><td>13.98</td><td>Peak</td><td>100</td><td>105</td></tr></table>								Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5150.00	44.89	54.00	-9.11	40.68	4.21	Average	340	201	2	5150.00	58.79	74.00	-15.21	54.58	4.21	Peak	340	201	3	5350.00	44.46	54.00	-9.54	40.58	3.88	Average	340	201	4	5350.00	58.40	74.00	-15.60	54.52	3.88	Peak	340	201	5	10480.00	56.89	68.20	-11.31	42.78	14.11	Peak	100	109	6	15720.00	44.79	54.00	-9.21	30.81	13.98	Average	100	105	7	15720.00	56.84	74.00	-17.16	42.86	13.98	Peak	100	105
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Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5745																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):25 Humidity(%):63																																																																																													
Level (dBUV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>58.98</td><td>68.20</td><td>-9.22</td><td>54.56</td><td>4.42</td><td>Peak</td><td>155</td><td>232</td></tr><tr><td>2</td><td>5700.00</td><td>71.26</td><td>105.20</td><td>-33.94</td><td>66.59</td><td>4.67</td><td>Peak</td><td>155</td><td>232</td></tr><tr><td>3</td><td>5720.00</td><td>85.23</td><td>110.80</td><td>-25.57</td><td>80.46</td><td>4.77</td><td>Peak</td><td>155</td><td>232</td></tr><tr><td>4</td><td>5725.00</td><td>90.39</td><td>122.20</td><td>-31.81</td><td>85.59</td><td>4.80</td><td>Peak</td><td>155</td><td>232</td></tr><tr><td>5</td><td>5925.00</td><td>59.53</td><td>68.20</td><td>-8.67</td><td>54.10</td><td>5.43</td><td>Peak</td><td>155</td><td>232</td></tr><tr><td>6</td><td>11490.00</td><td>45.18</td><td>54.00</td><td>-8.82</td><td>31.25</td><td>13.93</td><td>Average</td><td>100</td><td>55</td></tr><tr><td>7</td><td>11490.00</td><td>56.58</td><td>74.00</td><td>-17.42</td><td>42.65</td><td>13.93</td><td>Peak</td><td>100</td><td>55</td></tr><tr><td>8</td><td>17235.00</td><td>60.91</td><td>68.20</td><td>-7.29</td><td>43.59</td><td>17.32</td><td>Peak</td><td>285</td><td>25</td></tr></tbody></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	58.98	68.20	-9.22	54.56	4.42	Peak	155	232	2	5700.00	71.26	105.20	-33.94	66.59	4.67	Peak	155	232	3	5720.00	85.23	110.80	-25.57	80.46	4.77	Peak	155	232	4	5725.00	90.39	122.20	-31.81	85.59	4.80	Peak	155	232	5	5925.00	59.53	68.20	-8.67	54.10	5.43	Peak	155	232	6	11490.00	45.18	54.00	-8.82	31.25	13.93	Average	100	55	7	11490.00	56.58	74.00	-17.42	42.65	13.93	Peak	100	55	8	17235.00	60.91	68.20	-7.29	43.59	17.32	Peak	285	25
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5745																																																																																																														
Polarization	Vertical																																																																																																																
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5785																																																												
Polarization	Horizontal																																																														
Test By :Akun Chung Temperature(°C):25 Humidity(%):63																																																															
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>58.57</td><td>68.20</td><td>-9.63</td><td>54.15</td><td>4.42</td><td>Peak</td><td>159</td><td>231</td></tr><tr><td>2</td><td>5925.00</td><td>59.64</td><td>68.20</td><td>-8.56</td><td>54.21</td><td>5.43</td><td>Peak</td><td>159</td><td>231</td></tr><tr><td>3</td><td>11570.00</td><td>44.88</td><td>54.00</td><td>-9.12</td><td>31.05</td><td>13.83</td><td>Average</td><td>110</td><td>33</td></tr><tr><td>4</td><td>11570.00</td><td>56.27</td><td>74.00</td><td>-17.73</td><td>42.44</td><td>13.83</td><td>Peak</td><td>110</td><td>33</td></tr><tr><td>5</td><td>17355.00</td><td>61.19</td><td>68.20</td><td>-7.01</td><td>43.26</td><td>17.93</td><td>Peak</td><td>274</td><td>30</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	58.57	68.20	-9.63	54.15	4.42	Peak	159	231	2	5925.00	59.64	68.20	-8.56	54.21	5.43	Peak	159	231	3	11570.00	44.88	54.00	-9.12	31.05	13.83	Average	110	33	4	11570.00	56.27	74.00	-17.73	42.44	13.83	Peak	110	33	5	17355.00	61.19	68.20	-7.01	43.26	17.93	Peak	274	30
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
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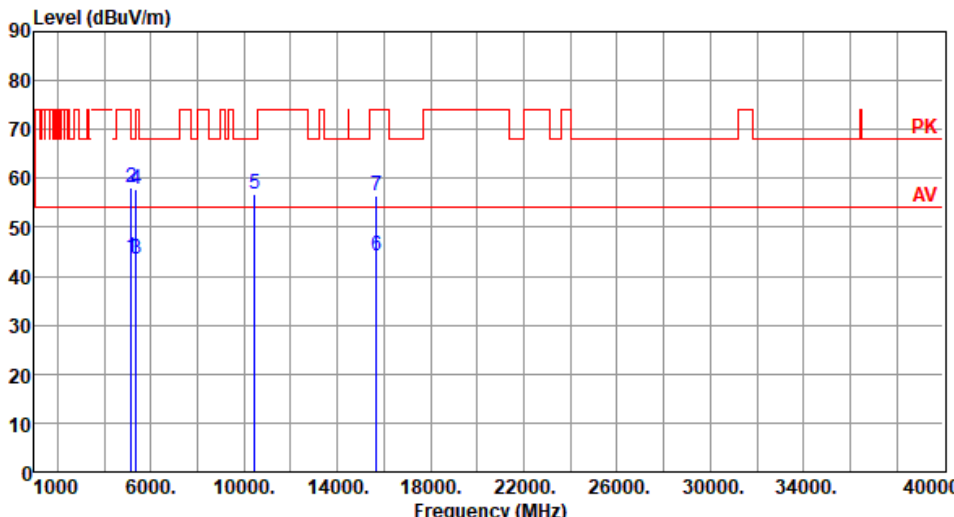
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):63			
Level (dBuV/m) </			

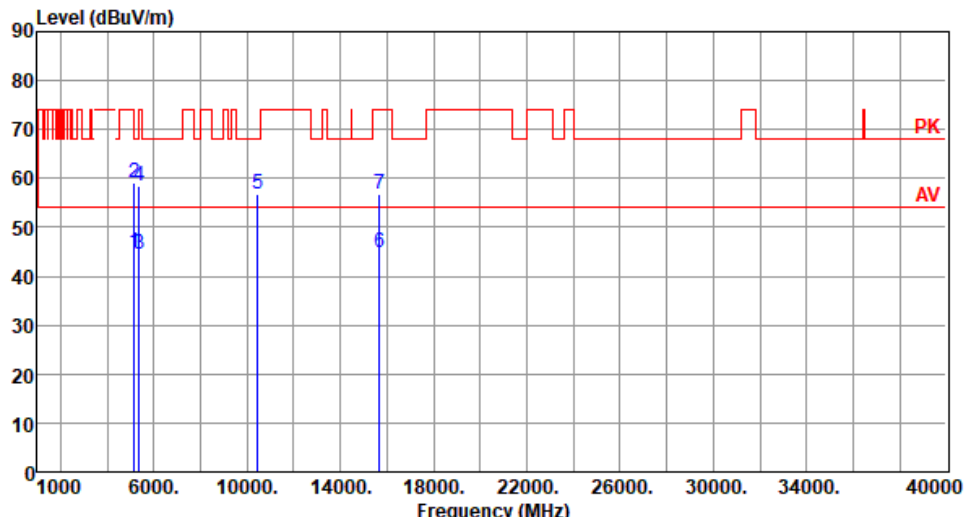
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825						
Polarization	Vertical								
Test By :Akun Chung Temperature(°C):25 Humidity(%):63									
Level (dBuV/m)  Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5650.00	60.12	68.20	-8.08	55.70	4.42	Peak	110	218
2	5850.00	92.44	122.20	-29.76	87.25	5.19	Peak	110	218
3	5855.00	86.84	110.80	-23.96	81.63	5.21	Peak	110	218
4	5875.00	77.14	105.20	-28.06	71.84	5.30	Peak	110	218
5	5925.00	61.94	68.20	-6.26	56.51	5.43	Peak	110	218
6	11650.00	45.21	54.00	-8.79	31.63	13.58	Average	163	353
7	11650.00	57.06	74.00	-16.94	43.48	13.58	Peak	163	353
8	17475.00	62.70	68.20	-5.50	43.96	18.74	Peak	328	40
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).									

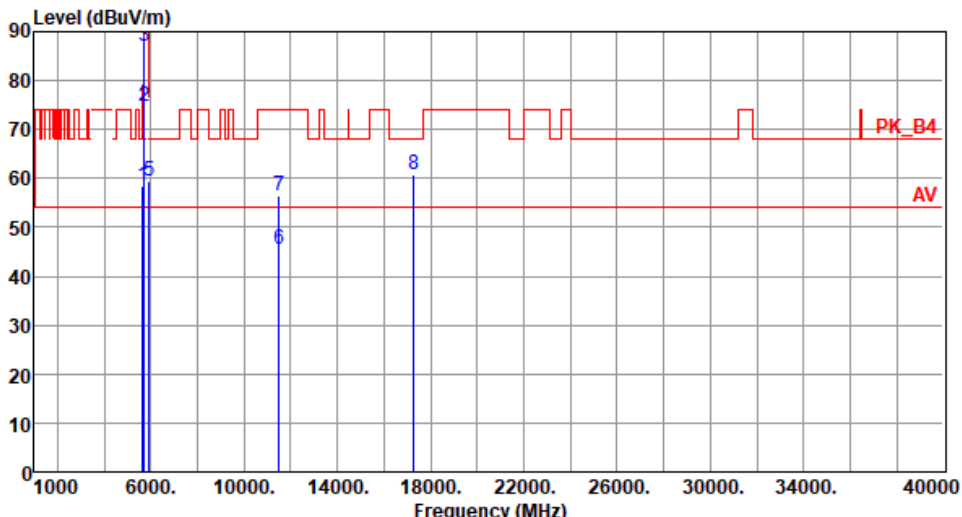
3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE40-OFDMA

Modulation	ax HE40-OFDMA		Test Freq. (MHz)	5190	
Polarization	Horizontal				
Test By :Akun Chung Temperature(°C):23 Humidity(%):69					
Level (dBuV/m)					

Modulation	ax HE40-OFDMA		Test Freq. (MHz)		5190	
Polarization	Vertical					
Test By :Akun Chung Temperature(°C):23 Humidity(%):69						
Level (dBuV/m)						

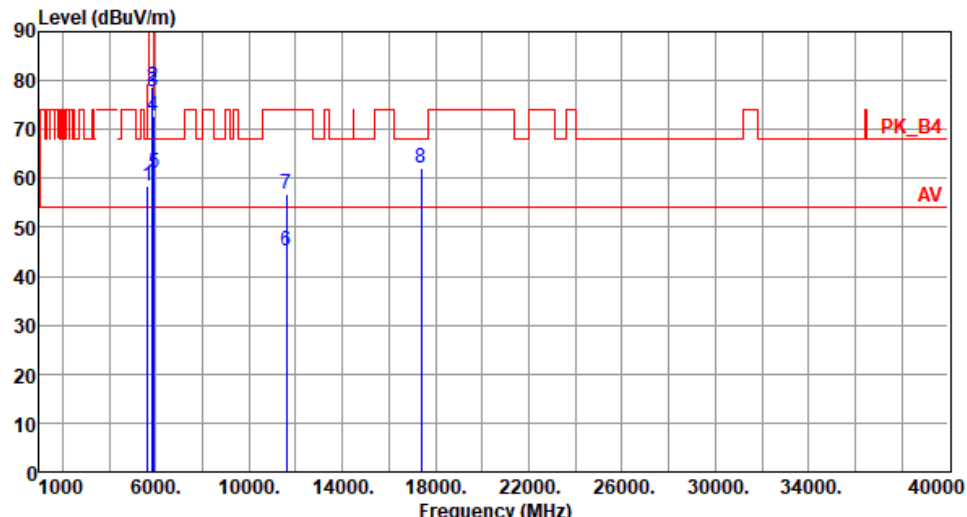
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5230																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>43.77</td><td>54.00</td><td>-10.23</td><td>39.56</td><td>4.21</td><td>Average</td><td>104</td><td>298</td></tr><tr><td>2</td><td>5150.00</td><td>58.10</td><td>74.00</td><td>-15.90</td><td>53.89</td><td>4.21</td><td>Peak</td><td>104</td><td>298</td></tr><tr><td>3</td><td>5350.00</td><td>43.55</td><td>54.00</td><td>-10.45</td><td>39.67</td><td>3.88</td><td>Average</td><td>104</td><td>298</td></tr><tr><td>4</td><td>5350.00</td><td>57.83</td><td>74.00</td><td>-16.17</td><td>53.95</td><td>3.88</td><td>Peak</td><td>104</td><td>298</td></tr><tr><td>5</td><td>10460.00</td><td>56.65</td><td>68.20</td><td>-11.55</td><td>42.56</td><td>14.09</td><td>Peak</td><td>100</td><td>20</td></tr><tr><td>6</td><td>15690.00</td><td>44.19</td><td>54.00</td><td>-9.81</td><td>30.15</td><td>14.04</td><td>Average</td><td>100</td><td>70</td></tr><tr><td>7</td><td>15690.00</td><td>56.50</td><td>74.00</td><td>-17.50</td><td>42.46</td><td>14.04</td><td>Peak</td><td>100</td><td>70</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table			dBuV/m			dBuV			cm	deg	1	5150.00	43.77	54.00	-10.23	39.56	4.21	Average	104	298	2	5150.00	58.10	74.00	-15.90	53.89	4.21	Peak	104	298	3	5350.00	43.55	54.00	-10.45	39.67	3.88	Average	104	298	4	5350.00	57.83	74.00	-16.17	53.95	3.88	Peak	104	298	5	10460.00	56.65	68.20	-11.55	42.56	14.09	Peak	100	20	6	15690.00	44.19	54.00	-9.81	30.15	14.04	Average	100	70	7	15690.00	56.50	74.00	-17.50	42.46	14.04	Peak	100	70
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																														
		dBuV/m			dBuV			cm	deg																																																																																														
1	5150.00	43.77	54.00	-10.23	39.56	4.21	Average	104	298																																																																																														
2	5150.00	58.10	74.00	-15.90	53.89	4.21	Peak	104	298																																																																																														
3	5350.00	43.55	54.00	-10.45	39.67	3.88	Average	104	298																																																																																														
4	5350.00	57.83	74.00	-16.17	53.95	3.88	Peak	104	298																																																																																														
5	10460.00	56.65	68.20	-11.55	42.56	14.09	Peak	100	20																																																																																														
6	15690.00	44.19	54.00	-9.81	30.15	14.04	Average	100	70																																																																																														
7	15690.00	56.50	74.00	-17.50	42.46	14.04	Peak	100	70																																																																																														
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																							

Modulation	ax HE40-OFDMA		Test Freq. (MHz)	5230																																																																																																					
Polarization	Vertical																																																																																																								
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																									
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>44.91</td><td>54.00</td><td>-9.09</td><td>40.70</td><td>4.21</td><td>Average</td><td>335</td><td>197</td></tr><tr><td>2</td><td>5150.00</td><td>58.96</td><td>74.00</td><td>-15.04</td><td>54.75</td><td>4.21</td><td>Peak</td><td>335</td><td>197</td></tr><tr><td>3</td><td>5350.00</td><td>44.60</td><td>54.00</td><td>-9.40</td><td>40.72</td><td>3.88</td><td>Average</td><td>335</td><td>197</td></tr><tr><td>4</td><td>5350.00</td><td>58.56</td><td>74.00</td><td>-15.44</td><td>54.68</td><td>3.88</td><td>Peak</td><td>335</td><td>197</td></tr><tr><td>5</td><td>10460.00</td><td>56.80</td><td>68.20</td><td>-11.40</td><td>42.71</td><td>14.09</td><td>Peak</td><td>100</td><td>99</td></tr><tr><td>6</td><td>15690.00</td><td>44.69</td><td>54.00</td><td>-9.31</td><td>30.65</td><td>14.04</td><td>Average</td><td>100</td><td>102</td></tr><tr><td>7</td><td>15690.00</td><td>56.72</td><td>74.00</td><td>-17.28</td><td>42.68</td><td>14.04</td><td>Peak</td><td>100</td><td>102</td></tr></table>							Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5150.00	44.91	54.00	-9.09	40.70	4.21	Average	335	197	2	5150.00	58.96	74.00	-15.04	54.75	4.21	Peak	335	197	3	5350.00	44.60	54.00	-9.40	40.72	3.88	Average	335	197	4	5350.00	58.56	74.00	-15.44	54.68	3.88	Peak	335	197	5	10460.00	56.80	68.20	-11.40	42.71	14.09	Peak	100	99	6	15690.00	44.69	54.00	-9.31	30.65	14.04	Average	100	102	7	15690.00	56.72	74.00	-17.28	42.68	14.04	Peak	100	102
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																																
								cm	deg																																																																																																
1	5150.00	44.91	54.00	-9.09	40.70	4.21	Average	335	197																																																																																																
2	5150.00	58.96	74.00	-15.04	54.75	4.21	Peak	335	197																																																																																																
3	5350.00	44.60	54.00	-9.40	40.72	3.88	Average	335	197																																																																																																
4	5350.00	58.56	74.00	-15.44	54.68	3.88	Peak	335	197																																																																																																
5	10460.00	56.80	68.20	-11.40	42.71	14.09	Peak	100	99																																																																																																
6	15690.00	44.69	54.00	-9.31	30.65	14.04	Average	100	102																																																																																																
7	15690.00	56.72	74.00	-17.28	42.68	14.04	Peak	100	102																																																																																																
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																									

Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5755																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):25 Humidity(%):63																																																																																													
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>58.57</td><td>68.20</td><td>-9.63</td><td>54.15</td><td>4.42</td><td>Peak</td><td>158</td><td>233</td></tr><tr><td>2</td><td>5700.00</td><td>74.82</td><td>105.20</td><td>-30.38</td><td>70.15</td><td>4.67</td><td>Peak</td><td>158</td><td>233</td></tr><tr><td>3</td><td>5720.00</td><td>87.03</td><td>110.80</td><td>-23.77</td><td>82.26</td><td>4.77</td><td>Peak</td><td>158</td><td>233</td></tr><tr><td>4</td><td>5725.00</td><td>89.11</td><td>122.20</td><td>-33.09</td><td>84.31</td><td>4.80</td><td>Peak</td><td>158</td><td>233</td></tr><tr><td>5</td><td>5925.00</td><td>59.45</td><td>68.20</td><td>-8.75</td><td>54.02</td><td>5.43</td><td>Peak</td><td>158</td><td>233</td></tr><tr><td>6</td><td>11510.00</td><td>45.36</td><td>54.00</td><td>-8.64</td><td>31.45</td><td>13.91</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>7</td><td>11510.00</td><td>56.50</td><td>74.00</td><td>-17.50</td><td>42.59</td><td>13.91</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>8</td><td>17265.00</td><td>60.87</td><td>68.20</td><td>-7.33</td><td>43.45</td><td>17.42</td><td>Peak</td><td>100</td><td>50</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	58.57	68.20	-9.63	54.15	4.42	Peak	158	233	2	5700.00	74.82	105.20	-30.38	70.15	4.67	Peak	158	233	3	5720.00	87.03	110.80	-23.77	82.26	4.77	Peak	158	233	4	5725.00	89.11	122.20	-33.09	84.31	4.80	Peak	158	233	5	5925.00	59.45	68.20	-8.75	54.02	5.43	Peak	158	233	6	11510.00	45.36	54.00	-8.64	31.45	13.91	Average	100	30	7	11510.00	56.50	74.00	-17.50	42.59	13.91	Peak	100	30	8	17265.00	60.87	68.20	-7.33	43.45	17.42	Peak	100	50
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
1	5650.00	58.57	68.20	-9.63	54.15	4.42	Peak	158	233																																																																																				
2	5700.00	74.82	105.20	-30.38	70.15	4.67	Peak	158	233																																																																																				
3	5720.00	87.03	110.80	-23.77	82.26	4.77	Peak	158	233																																																																																				
4	5725.00	89.11	122.20	-33.09	84.31	4.80	Peak	158	233																																																																																				
5	5925.00	59.45	68.20	-8.75	54.02	5.43	Peak	158	233																																																																																				
6	11510.00	45.36	54.00	-8.64	31.45	13.91	Average	100	30																																																																																				
7	11510.00	56.50	74.00	-17.50	42.59	13.91	Peak	100	30																																																																																				
8	17265.00	60.87	68.20	-7.33	43.45	17.42	Peak	100	50																																																																																				

Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5755						
Polarization	Vertical								
Test By :Akun Chung Temperature(°C):25 Humidity(%):63									
Level (dBuV/m) Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5650.00	64.25	68.20	-3.95	59.83	4.42	Peak	105	218
2	5700.00	80.37	105.20	-24.83	75.70	4.67	Peak	105	218
3	5720.00	92.10	110.80	-18.70	87.33	4.77	Peak	105	218
4	5725.00	94.05	122.20	-28.15	89.25	4.80	Peak	105	218
5	5925.00	61.37	68.20	-6.83	55.94	5.43	Peak	105	218
6	11510.00	45.58	54.00	-8.42	31.67	13.91	Average	160	344
7	11510.00	57.41	74.00	-16.59	43.50	13.91	Peak	160	344
8	17265.00	61.40	68.20	-6.80	43.98	17.42	Peak	100	50

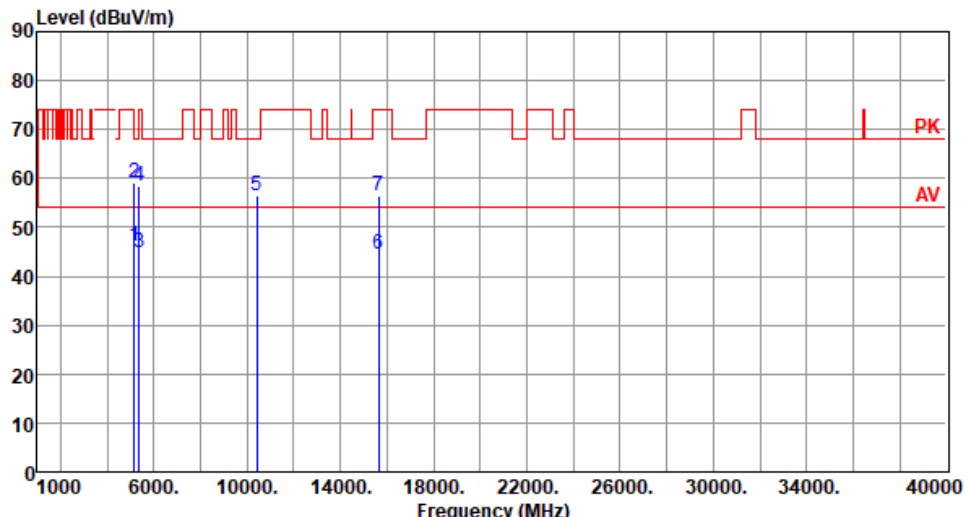
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

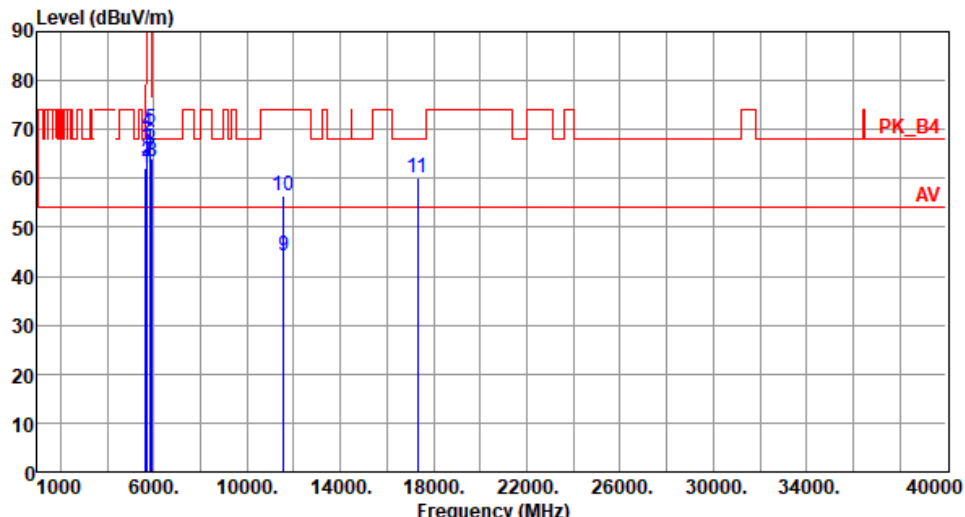
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5795																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Akun Chung Temperature(°C):25 Humidity(%):63																																																																																																																	
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5650.00</td><td>58.58</td><td>68.20</td><td>-9.62</td><td>54.16</td><td>4.42</td><td>Peak</td><td>150</td><td>239</td></tr><tr><td>2</td><td>5850.00</td><td>78.84</td><td>122.20</td><td>-43.36</td><td>73.65</td><td>5.19</td><td>Peak</td><td>150</td><td>239</td></tr><tr><td>3</td><td>5855.00</td><td>77.67</td><td>110.80</td><td>-33.13</td><td>72.46</td><td>5.21</td><td>Peak</td><td>150</td><td>239</td></tr><tr><td>4</td><td>5875.00</td><td>72.89</td><td>105.20</td><td>-32.31</td><td>67.59</td><td>5.30</td><td>Peak</td><td>150</td><td>239</td></tr><tr><td>5</td><td>5925.00</td><td>61.01</td><td>68.20</td><td>-7.19</td><td>55.58</td><td>5.43</td><td>Peak</td><td>150</td><td>239</td></tr><tr><td>6</td><td>11590.00</td><td>45.06</td><td>54.00</td><td>-8.94</td><td>31.26</td><td>13.80</td><td>Average</td><td>100</td><td>35</td></tr><tr><td>7</td><td>11590.00</td><td>56.95</td><td>74.00</td><td>-17.05</td><td>43.15</td><td>13.80</td><td>Peak</td><td>100</td><td>35</td></tr><tr><td>8</td><td>17385.00</td><td>62.05</td><td>68.20</td><td>-6.15</td><td>43.89</td><td>18.16</td><td>Peak</td><td>100</td><td>20</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5650.00	58.58	68.20	-9.62	54.16	4.42	Peak	150	239	2	5850.00	78.84	122.20	-43.36	73.65	5.19	Peak	150	239	3	5855.00	77.67	110.80	-33.13	72.46	5.21	Peak	150	239	4	5875.00	72.89	105.20	-32.31	67.59	5.30	Peak	150	239	5	5925.00	61.01	68.20	-7.19	55.58	5.43	Peak	150	239	6	11590.00	45.06	54.00	-8.94	31.26	13.80	Average	100	35	7	11590.00	56.95	74.00	-17.05	43.15	13.80	Peak	100	35	8	17385.00	62.05	68.20	-6.15	43.89	18.16	Peak	100	20
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																																								
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1	5650.00	58.58	68.20	-9.62	54.16	4.42	Peak	150	239																																																																																																								
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4	5875.00	72.89	105.20	-32.31	67.59	5.30	Peak	150	239																																																																																																								
5	5925.00	61.01	68.20	-7.19	55.58	5.43	Peak	150	239																																																																																																								
6	11590.00	45.06	54.00	-8.94	31.26	13.80	Average	100	35																																																																																																								
7	11590.00	56.95	74.00	-17.05	43.15	13.80	Peak	100	35																																																																																																								
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																																	

Modulation	ax HE40-OFDMA		Test Freq. (MHz)	5795	
Polarization	Vertical				
Test By :Akun Chung Temperature(°C):25 Humidity(%):63					
Level (dBuV/m)					

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE80-OFDMA

Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5210
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m) </			

Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5210																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																			
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>46.10</td><td>54.00</td><td>-7.90</td><td>41.89</td><td>4.21</td><td>Average</td><td>348</td><td>195</td></tr><tr><td>2</td><td>5150.00</td><td>59.08</td><td>74.00</td><td>-14.92</td><td>54.87</td><td>4.21</td><td>Peak</td><td>348</td><td>195</td></tr><tr><td>3</td><td>5350.00</td><td>44.75</td><td>54.00</td><td>-9.25</td><td>40.87</td><td>3.88</td><td>Average</td><td>348</td><td>195</td></tr><tr><td>4</td><td>5350.00</td><td>58.51</td><td>74.00</td><td>-15.49</td><td>54.63</td><td>3.88</td><td>Peak</td><td>348</td><td>195</td></tr><tr><td>5</td><td>10420.00</td><td>56.62</td><td>68.20</td><td>-11.58</td><td>42.55</td><td>14.07</td><td>Peak</td><td>100</td><td>100</td></tr><tr><td>6</td><td>15630.00</td><td>44.61</td><td>54.00</td><td>-9.39</td><td>30.54</td><td>14.07</td><td>Average</td><td>100</td><td>102</td></tr><tr><td>7</td><td>15630.00</td><td>56.59</td><td>74.00</td><td>-17.41</td><td>42.52</td><td>14.07</td><td>Peak</td><td>100</td><td>102</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	46.10	54.00	-7.90	41.89	4.21	Average	348	195	2	5150.00	59.08	74.00	-14.92	54.87	4.21	Peak	348	195	3	5350.00	44.75	54.00	-9.25	40.87	3.88	Average	348	195	4	5350.00	58.51	74.00	-15.49	54.63	3.88	Peak	348	195	5	10420.00	56.62	68.20	-11.58	42.55	14.07	Peak	100	100	6	15630.00	44.61	54.00	-9.39	30.54	14.07	Average	100	102	7	15630.00	56.59	74.00	-17.41	42.52	14.07	Peak	100	102
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Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5775																																																																																																																								
Polarization	Horizontal																																																																																																																										
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Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5775
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):63			
Level (dBuV/m)			

3.6 Frequency Stability

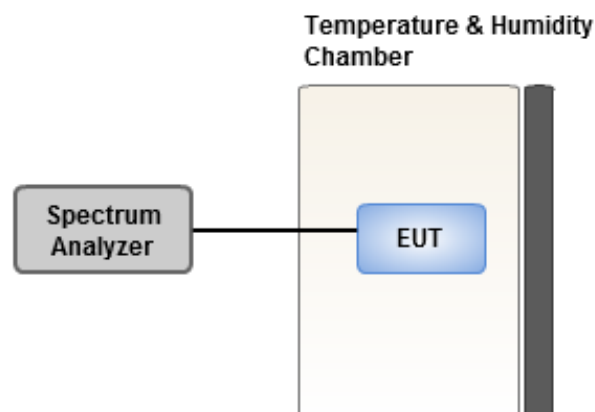
3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.6.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Ambient Condition	21-23°C / 63-65%	Tested By	Brad Wu
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Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	-4.03	-3.79	-4.48	-4.14
T20°C Vmin	-4.72	-3.70	-4.11	-3.88
T60°C Vnom	-4.39	-3.86	-4.70	-4.34
T50°C Vnom	-3.72	-3.98	-4.17	-4.02
T40°C Vnom	-3.52	-3.89	-3.67	-3.74
T30°C Vnom	-4.66	-3.37	-4.35	-3.64
T20°C Vnom	-4.43	-4.22	-4.33	-4.65
T10°C Vnom	-4.08	-3.86	-4.84	-3.78
T0°C Vnom	-4.14	-3.86	-4.23	-4.28
T-10°C Vnom	-4.47	-3.67	-4.02	-4.21
T-20°C Vnom	-3.66	-4.41	-4.24	-4.04
T-30°C Vnom	-4.13	-3.98	-4.60	-4.88
Vnom [V]: 120		Vmax [V]: 138		Vmin [V]: 102
Tnom [°C]: 20		Tmax [°C]: 60		Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-3.96	-3.35	-3.42	-3.79
T20°CVmin	-3.00	-3.20	-3.28	-2.94
T70°CVnom	-3.82	-3.59	-3.50	-3.58
T60°CVnom	-3.88	-4.02	-3.85	-3.65
T50°CVnom	-2.39	-2.37	-3.36	-3.02
T40°CVnom	-3.40	-3.61	-3.65	-4.27
T30°CVnom	-2.91	-3.03	-3.13	-2.87
T20°CVnom	-3.48	-3.88	-3.86	-3.60
T10°CVnom	-3.29	-2.91	-3.29	-2.71
T0°CVnom	-2.52	-3.31	-3.14	-2.53
T-10°CVnom	-3.78	-3.42	-3.89	-3.56
T-20°CVnom	-3.70	-3.33	-3.38	-3.34
T-30°CVnom	-3.96	-3.35	-3.42	-3.79
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 60		Tmin [°C]: -30

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 Corporation (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 Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 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: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

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