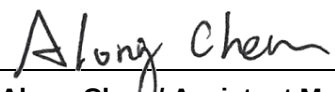


FCC Test Report

FCC ID : P27RP582B
Equipment : WiFi 6 Tri-Band Router
Model No. : RP582B
Brand Name : Sercomm
Applicant : Sercomm Corporation
Address : 8F, No. 3-1, YuanQu St., NanKang, Taipei 115,
Taiwan, R.O.C.
Standard : 47 CFR FCC Part 15.407
Received Date : Jan. 11, 2022
Tested Date : Jan. 25 ~ Feb. 15, 2022

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 shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

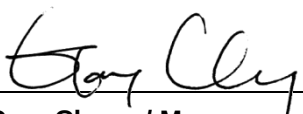

Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR211102AN	Rev. 01	Initial issue	Mar. 11, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.348MHz 42.71 (Margin -6.29dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5150.00MHz 53.68 (Margin -0.32dB) - AV	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]: Non-beamforming mode 5150~5250MHz: 27.08 5725~5850MHz: 24.95 Beamforming mode 5150~5250MHz: 26.64 5725~5850MHz: 24.86	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]	4 2	6-54 Mbps
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4 2	MCS 0-31 MCS 0-15
5150-5250 5725-5850	n (HT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4 2	MCS 0-31 MCS 0-15
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4 2	MCS 0-9
5150-5250 5725-5850	ac (VHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4 2	MCS 0-9
5150-5250 5725-5850	ac (VHT80)	5210 5775	42 [1] 155 [1]	4 2	MCS 0-9
5150-5250 5725-5850	ax (HE20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4 2	MCS 0-11
5150-5250 5725-5850	ax (HE40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4 2	MCS 0-11
5150-5250 5725-5850	ax (HE80)	5210 5775	42 [1] 155 [1]	4 2	MCS 0-11

Note 1: OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.
Note 2: 802.11ax supports beamforming function.

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)			Remarks
				2400~2483.5	5150~5250	5725~5850	
1	Ant1	Dipole	I-PEX	2.46	4.31	2.16	Radio1, 3
2	Ant2	Dipole	I-PEX	3.43	2.63	3.85	Radio1, 3
3	Ant3	Dipole	I-PEX	---	3.35	3.4	Radio2
4	Ant4	Dipole	I-PEX	---	2.19	3.32	Radio2
5	Ant5	Dipole	I-PEX	---	2.62	2.69	Radio2
6	Ant6	Dipole	I-PEX	---	4.23	4.11	Radio2

1.1.3 Radio Details

Radio	Function
1	2.4 GHz, 2T2R
2	5.15 GHz ~ 5.25 GHz, 4T4R
3	5.725 GHz ~ 5.85 GHz, 2T2R

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from AC adapter
-------------------	-----------------------

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: Leader Model: MU24D1120200-A1 Power Rating: I/P: 100-240Vac, 50/60Hz, 0.7A O/P: 12Vdc, 2.0A Line: 1.45m non-shielded w/o core.
2	AC adapter	Brand: Acbel Model: WAM003 ID:GMAG Power Rating: I/P: 100-240Vac, 50/60Hz, 0.7A. O/P: 12Vdc, 2.0A, 24W Line: 1.45m non-shielded w/o core.

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	Non-beamforming: accessMTool, Version:V3.2.1.5 Beamforming: Lantest, Version: V2.0.0.2				
Duty Cycle and Duty Factor	Mode	Non-beamforming		Beamforming	
		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11a	95.81%	0.19	---	---
	ax HE20-OFDMA	98.31%	0.07	90.69%	0.42
	ax HE40-OFDMA	98.31%	0.07	93.55%	0.29
	ax HE80-OFDMA	98.58%	0.06	94.15%	0.26

1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
11a	5180	74	---
11a	5200	80	---
11a	5240	78	---
11a	5745	84	---
11a	5785	84	---
11a	5825	84	---
ax HE20-OFDMA	5180	70	70
ax HE20-OFDMA	5200	78	80
ax HE20-OFDMA	5240	74	76
ax HE20-OFDMA	5745	84	84
ax HE20-OFDMA	5785	84	82
ax HE20-OFDMA	5825	84	82
ax HE40-OFDMA	5190	56	56
ax HE40-OFDMA	5230	74	76
ax HE40-OFDMA	5755	84	84
ax HE40-OFDMA	5795	84	82
ax HE80-OFDMA	5210	62	60
ax HE80-OFDMA	5775	80	78

1.2 Local Support Equipment List

Non-beamforming mode

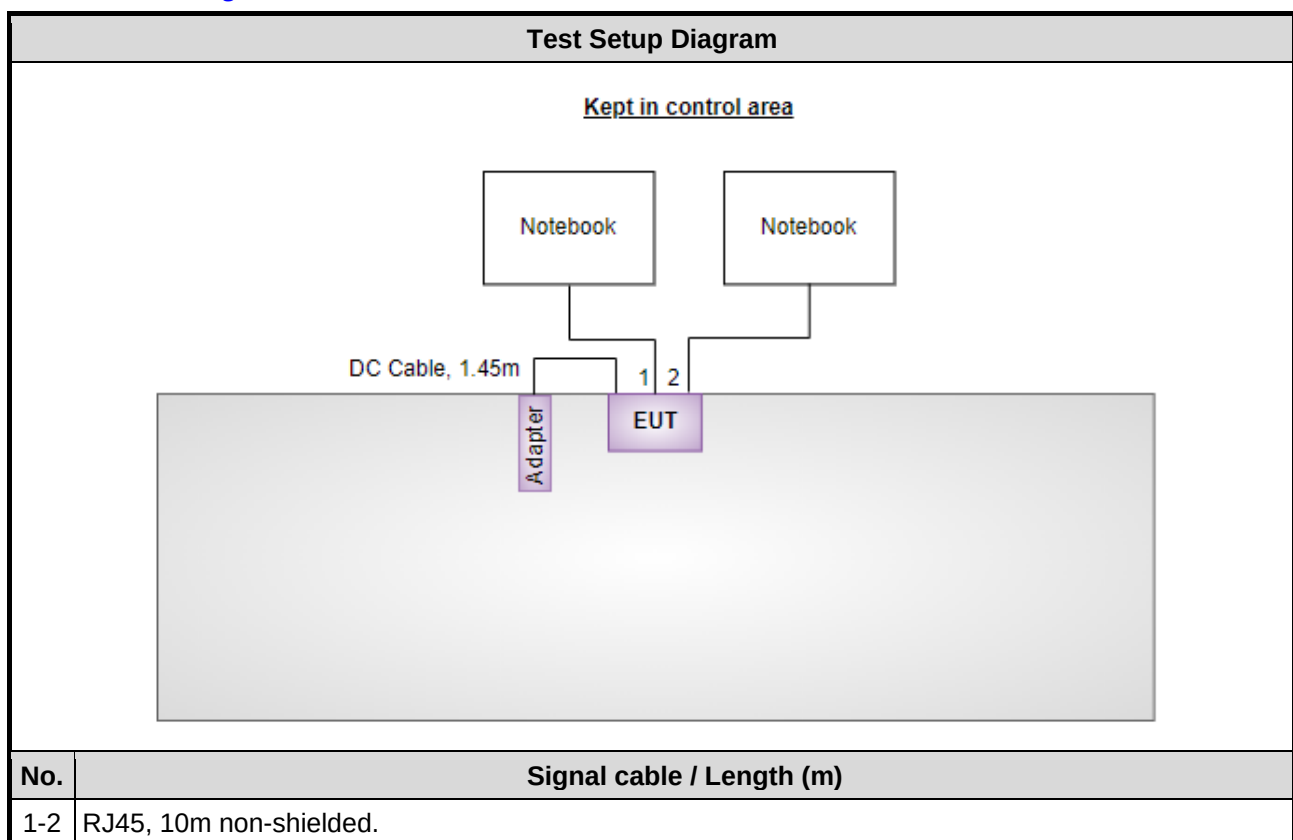
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude 5400	---	---
2	Notebook	DELL	Latitude E6440	---	---

Beamforming mode

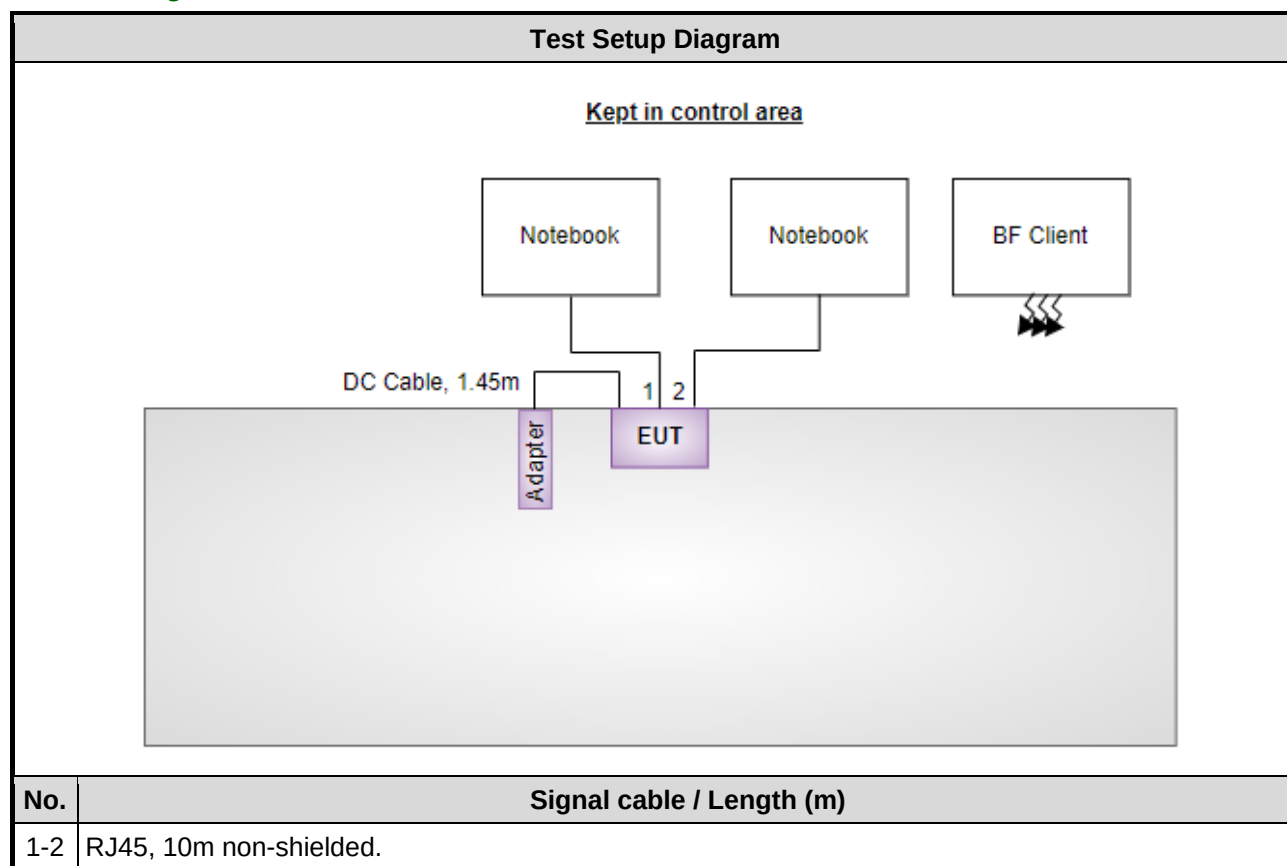
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude 5400	---	---
2	Notebook	DELL	Latitude E6440	---	---
3	BF Client	---	RP582B	---	Provided by applicant.

1.3 Test Setup Chart

Non-beamforming mode



Beamforming mode



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Feb. 07, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127477	Feb. 25, 2021	Feb. 24, 2022
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	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jan. 25 ~ Feb. 08, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 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
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 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
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	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	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Feb. 11 ~ Feb. 15, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 03, 2021	Dec. 02, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10.7.18	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

Non-beamforming mode

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	ax HE20-OFDMA	5200	MCS 0	---
Radiated Emissions ≤1GHz	ax HE20-OFDMA	5200	MCS 0	---
RF Output Power	11a	5180 / 5200 / 5240	6 Mbps	---
Radiated Emissions >1GHz	ax HE20-OFDMA	5180 / 5200 / 5240	MCS 0	
Emission Bandwidth	ax HE40-OFDMA	5190 / 5230	MCS 0	
Peak Power Spectral Density	ax HE80-OFDMA	5210	MCS 0	
Frequency Stability	Un-modulation	5200	---	---
For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	ax HE20-OFDMA	5825	MCS 0	---
Radiated Emissions ≤1GHz	ax HE20-OFDMA	5825	MCS 0	---
Radiated Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	---
Emission Bandwidth	ax HE20-OFDMA	5745 / 5785 / 5825	MCS 0	
6dB bandwidth	ax HE40-OFDMA	5755 / 5795	MCS 0	
Peak Power Spectral Density	ax HE80-OFDMA	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	---
Note: Two adapters (Leader and Aabel) had been covered during the pretest, and found that Leader was the worst case and was selected for final test.				

Beamforming mode

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	ax HE20-OFDMA	5200	MCS 0	---
Radiated Emissions ≤1GHz	ax HE20-OFDMA	5200	MCS 0	---
RF Output Power Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	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
Conducted Emissions	ax HE20-OFDMA	5825	MCS 0	---
Radiated Emissions ≤1GHz	ax HE20-OFDMA	5825	MCS 0	---
Radiated Emissions >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	ax HE20-OFDMA ax HE40-OFDMA ax HE80-OFDMA	5745 / 5785 / 5825 5755 / 5795 5775	MCS 0 MCS 0 MCS 0	---
Note: Two adapters (Leader and Acbel) had been covered during the pretest, and found that Leader was the worst case and was selected for final test.				

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

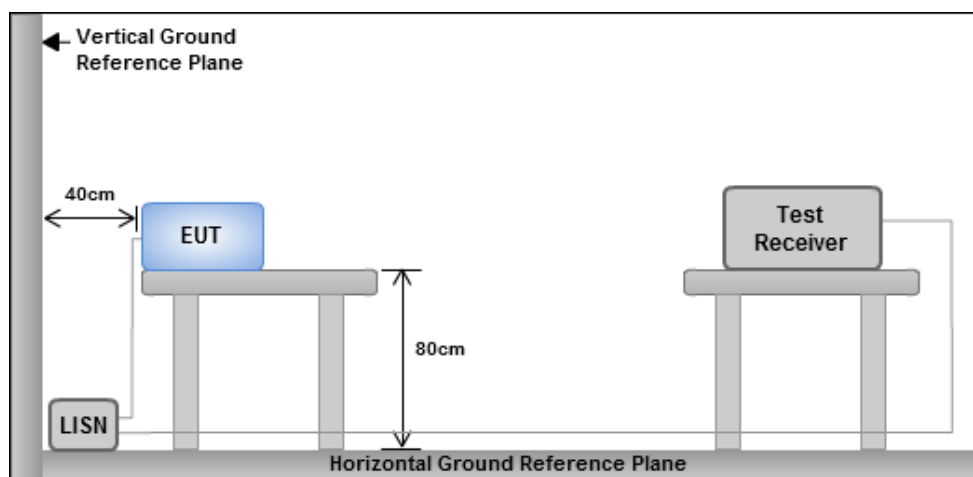
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 Test Procedures

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

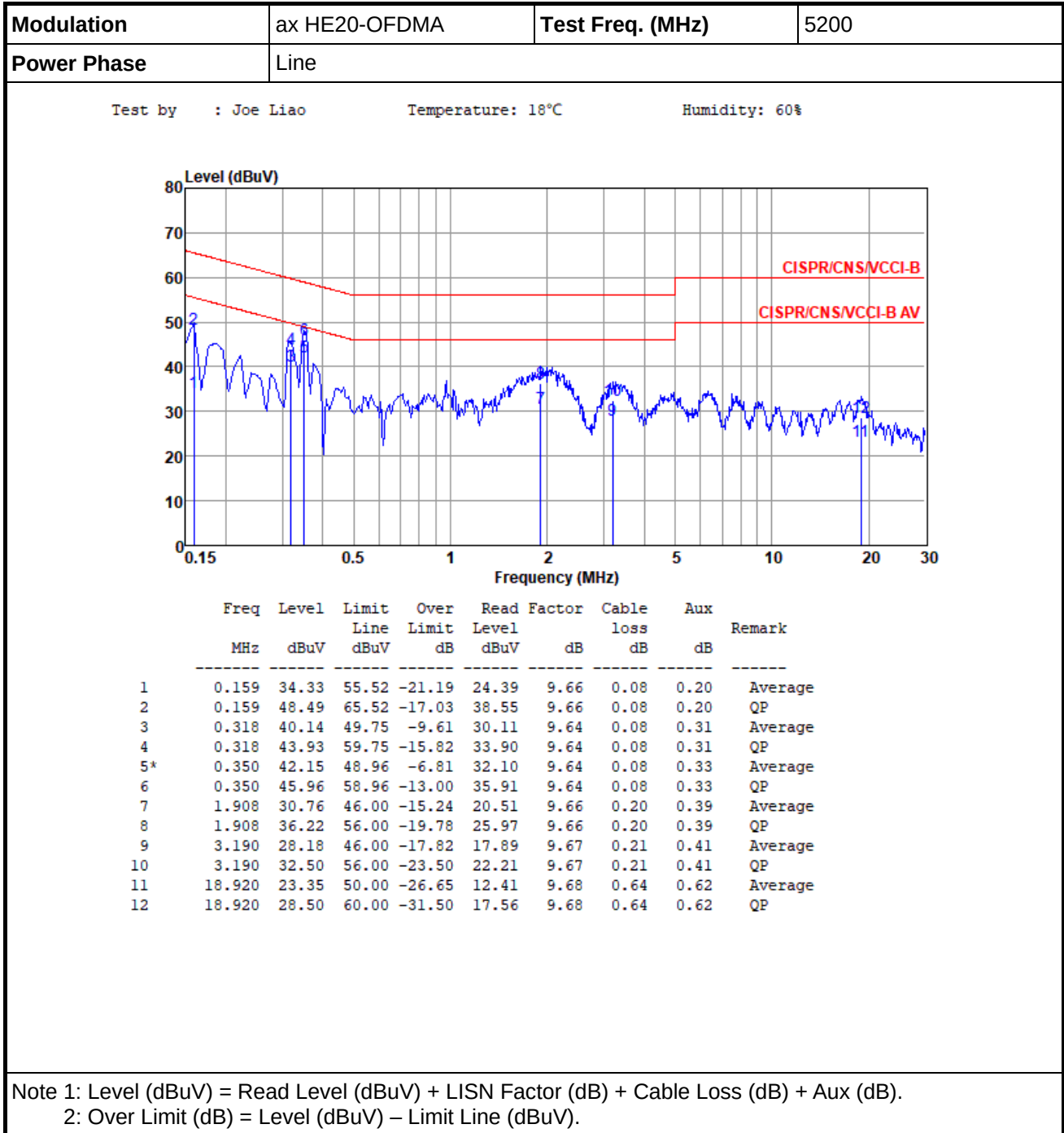
3.1.3 Test Setup



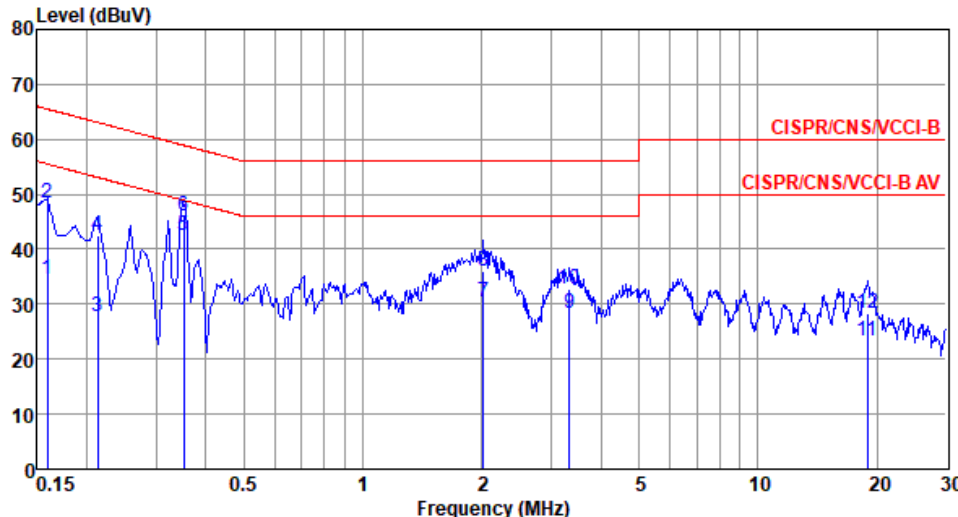
- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

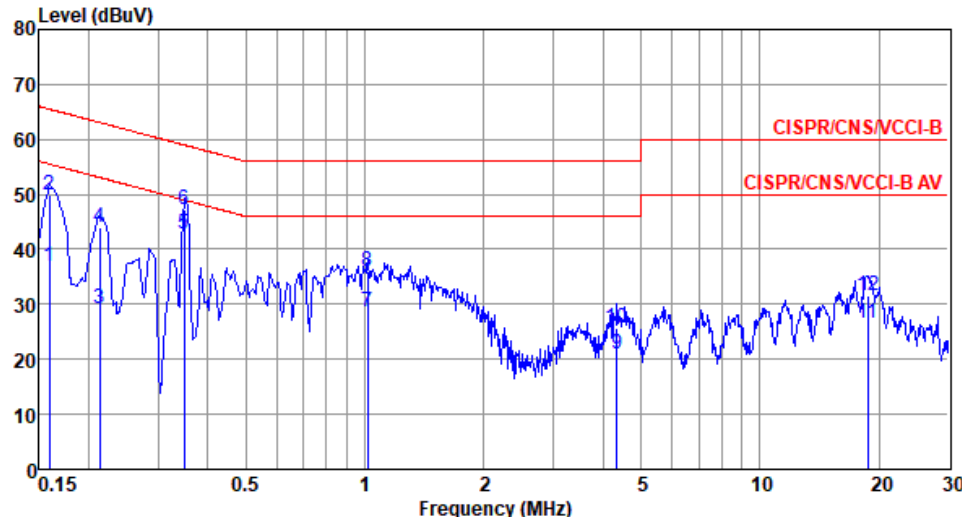
3.1.4 Test Result of Conducted Emissions

Non-beamforming mode



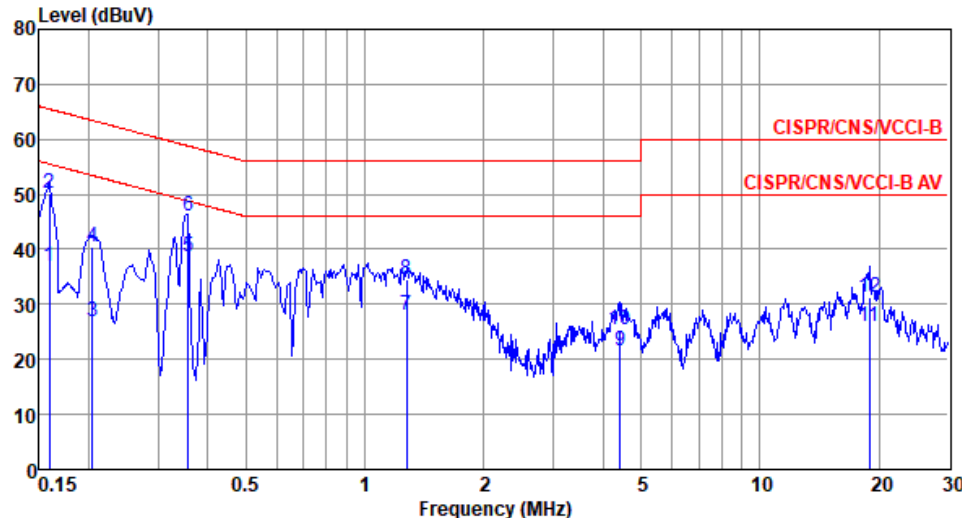
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200																																																																																																																																																						
Power Phase	Neutral																																																																																																																																																								
Test by : Joe Liao Temperature: 18°C Humidity: 60%																																																																																																																																																									
Level (dBuV) <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Cable</th><th>Aux</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th>dB</th><th>loss</th><th>dB</th><th></th></tr><tr><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dBuV</th><th></th><th>dB</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>0.159</td><td>37.10</td><td>55.52</td><td>-18.42</td><td>27.17</td><td>9.69</td><td>0.08</td><td>0.16</td><td>Average</td></tr><tr><td>2</td><td>0.159</td><td>50.25</td><td>65.52</td><td>-15.27</td><td>40.32</td><td>9.69</td><td>0.08</td><td>0.16</td><td>QP</td></tr><tr><td>3</td><td>0.204</td><td>26.74</td><td>53.45</td><td>-26.71</td><td>16.80</td><td>9.68</td><td>0.08</td><td>0.18</td><td>Average</td></tr><tr><td>4</td><td>0.204</td><td>40.63</td><td>63.45</td><td>-22.82</td><td>30.69</td><td>9.68</td><td>0.08</td><td>0.18</td><td>QP</td></tr><tr><td>5*</td><td>0.348</td><td>42.35</td><td>49.00</td><td>-6.65</td><td>32.41</td><td>9.67</td><td>0.08</td><td>0.19</td><td>Average</td></tr><tr><td>6</td><td>0.348</td><td>47.09</td><td>59.00</td><td>-11.91</td><td>37.15</td><td>9.67</td><td>0.08</td><td>0.19</td><td>QP</td></tr><tr><td>7</td><td>0.923</td><td>28.72</td><td>46.00</td><td>-17.28</td><td>18.62</td><td>9.68</td><td>0.15</td><td>0.27</td><td>Average</td></tr><tr><td>8</td><td>0.923</td><td>34.22</td><td>56.00</td><td>-21.78</td><td>24.12</td><td>9.68</td><td>0.15</td><td>0.27</td><td>QP</td></tr><tr><td>9</td><td>4.384</td><td>21.39</td><td>46.00</td><td>-24.61</td><td>11.12</td><td>9.71</td><td>0.23</td><td>0.33</td><td>Average</td></tr><tr><td>10</td><td>4.384</td><td>25.84</td><td>56.00</td><td>-30.16</td><td>15.57</td><td>9.71</td><td>0.23</td><td>0.33</td><td>QP</td></tr><tr><td>11</td><td>18.721</td><td>26.44</td><td>50.00</td><td>-23.56</td><td>15.52</td><td>9.83</td><td>0.64</td><td>0.45</td><td>Average</td></tr><tr><td>12</td><td>18.721</td><td>31.87</td><td>60.00</td><td>-28.13</td><td>20.95</td><td>9.83</td><td>0.64</td><td>0.45</td><td>QP</td></tr></tbody></table>					Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark		MHz	dBuV	Line	Limit	Level	dB	loss	dB					dBuV	dB	dBuV		dB			1	0.159	37.10	55.52	-18.42	27.17	9.69	0.08	0.16	Average	2	0.159	50.25	65.52	-15.27	40.32	9.69	0.08	0.16	QP	3	0.204	26.74	53.45	-26.71	16.80	9.68	0.08	0.18	Average	4	0.204	40.63	63.45	-22.82	30.69	9.68	0.08	0.18	QP	5*	0.348	42.35	49.00	-6.65	32.41	9.67	0.08	0.19	Average	6	0.348	47.09	59.00	-11.91	37.15	9.67	0.08	0.19	QP	7	0.923	28.72	46.00	-17.28	18.62	9.68	0.15	0.27	Average	8	0.923	34.22	56.00	-21.78	24.12	9.68	0.15	0.27	QP	9	4.384	21.39	46.00	-24.61	11.12	9.71	0.23	0.33	Average	10	4.384	25.84	56.00	-30.16	15.57	9.71	0.23	0.33	QP	11	18.721	26.44	50.00	-23.56	15.52	9.83	0.64	0.45	Average	12	18.721	31.87	60.00	-28.13	20.95	9.83	0.64	0.45	QP
	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark																																																																																																																																																
	MHz	dBuV	Line	Limit	Level	dB	loss	dB																																																																																																																																																	
			dBuV	dB	dBuV		dB																																																																																																																																																		
1	0.159	37.10	55.52	-18.42	27.17	9.69	0.08	0.16	Average																																																																																																																																																
2	0.159	50.25	65.52	-15.27	40.32	9.69	0.08	0.16	QP																																																																																																																																																
3	0.204	26.74	53.45	-26.71	16.80	9.68	0.08	0.18	Average																																																																																																																																																
4	0.204	40.63	63.45	-22.82	30.69	9.68	0.08	0.18	QP																																																																																																																																																
5*	0.348	42.35	49.00	-6.65	32.41	9.67	0.08	0.19	Average																																																																																																																																																
6	0.348	47.09	59.00	-11.91	37.15	9.67	0.08	0.19	QP																																																																																																																																																
7	0.923	28.72	46.00	-17.28	18.62	9.68	0.15	0.27	Average																																																																																																																																																
8	0.923	34.22	56.00	-21.78	24.12	9.68	0.15	0.27	QP																																																																																																																																																
9	4.384	21.39	46.00	-24.61	11.12	9.71	0.23	0.33	Average																																																																																																																																																
10	4.384	25.84	56.00	-30.16	15.57	9.71	0.23	0.33	QP																																																																																																																																																
11	18.721	26.44	50.00	-23.56	15.52	9.83	0.64	0.45	Average																																																																																																																																																
12	18.721	31.87	60.00	-28.13	20.95	9.83	0.64	0.45	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	ax HE20-OFDMA	Test Freq. (MHz)	5825																																																																																																																																																						
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Beamforming mode

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200																																																																																																																																																						
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3	0.322	39.69	49.66	-9.97	29.65	9.64	0.08	0.32	Average																																																																																																																																																
4	0.322	43.93	59.66	-15.73	33.89	9.64	0.08	0.32	QP																																																																																																																																																
5*	0.352	42.42	48.91	-6.49	32.37	9.64	0.08	0.33	Average																																																																																																																																																
6	0.352	46.01	58.91	-12.90	35.96	9.64	0.08	0.33	QP																																																																																																																																																
7	0.705	27.75	46.00	-18.25	17.60	9.65	0.13	0.37	Average																																																																																																																																																
8	0.705	32.50	56.00	-23.50	22.35	9.65	0.13	0.37	QP																																																																																																																																																
9	1.918	31.02	46.00	-14.98	20.77	9.66	0.20	0.39	Average																																																																																																																																																
10	1.918	36.72	56.00	-19.28	26.47	9.66	0.20	0.39	QP																																																																																																																																																
11	3.293	28.42	46.00	-17.58	18.13	9.67	0.21	0.41	Average																																																																																																																																																
12	3.293	32.72	56.00	-23.28	22.43	9.67	0.21	0.41	QP																																																																																																																																																
13	18.920	23.25	50.00	-26.75	12.31	9.68	0.64	0.62	Average																																																																																																																																																
14	18.920	28.37	60.00	-31.63	17.43	9.68	0.64	0.62	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).																																																																																																																																																									

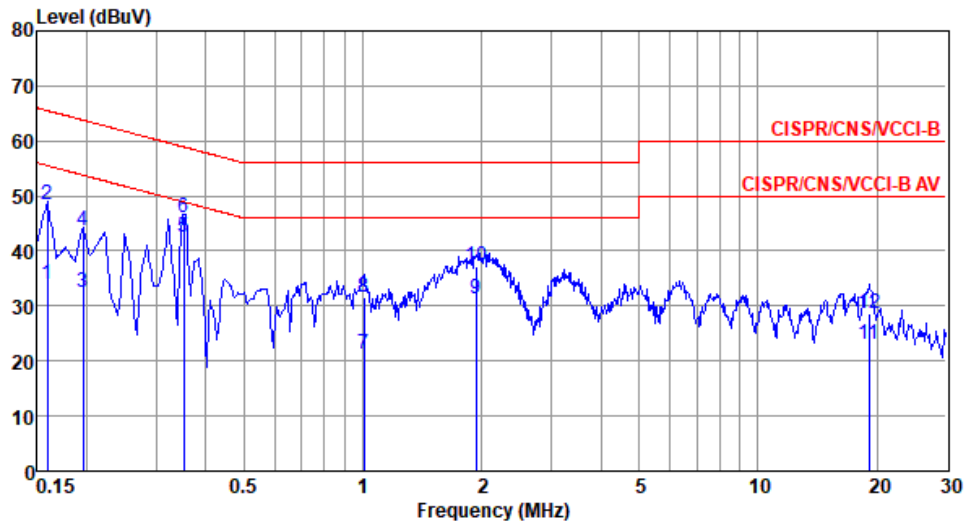
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200																																																																																																																																		
Power Phase	Neutral																																																																																																																																				
Test by : Joe Liao Temperature: 18°C Humidity: 60%																																																																																																																																					
Level (dBUV)  Frequency (MHz) <table><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><tr><td>1</td><td>0.159</td><td>36.88</td><td>55.52</td><td>-18.64</td><td>26.95</td><td>9.69</td><td>0.08</td><td>0.16</td><td>Average</td></tr><tr><td>2</td><td>0.159</td><td>50.16</td><td>65.52</td><td>-15.36</td><td>40.23</td><td>9.69</td><td>0.08</td><td>0.16</td><td>QP</td></tr><tr><td>3</td><td>0.204</td><td>26.72</td><td>53.45</td><td>-26.73</td><td>16.78</td><td>9.68</td><td>0.08</td><td>0.18</td><td>Average</td></tr><tr><td>4</td><td>0.204</td><td>40.45</td><td>63.45</td><td>-23.00</td><td>30.51</td><td>9.68</td><td>0.08</td><td>0.18</td><td>QP</td></tr><tr><td>5*</td><td>0.358</td><td>38.72</td><td>48.78</td><td>-10.06</td><td>28.78</td><td>9.67</td><td>0.08</td><td>0.19</td><td>Average</td></tr><tr><td>6</td><td>0.358</td><td>46.09</td><td>58.78</td><td>-12.69</td><td>36.15</td><td>9.67</td><td>0.08</td><td>0.19</td><td>QP</td></tr><tr><td>7</td><td>1.276</td><td>28.15</td><td>46.00</td><td>-17.85</td><td>18.01</td><td>9.68</td><td>0.17</td><td>0.29</td><td>Average</td></tr><tr><td>8</td><td>1.276</td><td>34.57</td><td>56.00</td><td>-21.43</td><td>24.43</td><td>9.68</td><td>0.17</td><td>0.29</td><td>QP</td></tr><tr><td>9</td><td>4.430</td><td>21.45</td><td>46.00</td><td>-24.55</td><td>11.17</td><td>9.71</td><td>0.24</td><td>0.33</td><td>Average</td></tr><tr><td>10</td><td>4.430</td><td>25.37</td><td>56.00</td><td>-30.63</td><td>15.09</td><td>9.71</td><td>0.24</td><td>0.33</td><td>QP</td></tr><tr><td>11</td><td>18.920</td><td>25.88</td><td>50.00</td><td>-24.12</td><td>14.96</td><td>9.83</td><td>0.64</td><td>0.45</td><td>Average</td></tr><tr><td>12</td><td>18.920</td><td>31.23</td><td>60.00</td><td>-28.77</td><td>20.31</td><td>9.83</td><td>0.64</td><td>0.45</td><td>QP</td></tr></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	36.88	55.52	-18.64	26.95	9.69	0.08	0.16	Average	2	0.159	50.16	65.52	-15.36	40.23	9.69	0.08	0.16	QP	3	0.204	26.72	53.45	-26.73	16.78	9.68	0.08	0.18	Average	4	0.204	40.45	63.45	-23.00	30.51	9.68	0.08	0.18	QP	5*	0.358	38.72	48.78	-10.06	28.78	9.67	0.08	0.19	Average	6	0.358	46.09	58.78	-12.69	36.15	9.67	0.08	0.19	QP	7	1.276	28.15	46.00	-17.85	18.01	9.68	0.17	0.29	Average	8	1.276	34.57	56.00	-21.43	24.43	9.68	0.17	0.29	QP	9	4.430	21.45	46.00	-24.55	11.17	9.71	0.24	0.33	Average	10	4.430	25.37	56.00	-30.63	15.09	9.71	0.24	0.33	QP	11	18.920	25.88	50.00	-24.12	14.96	9.83	0.64	0.45	Average	12	18.920	31.23	60.00	-28.77	20.31	9.83	0.64	0.45	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	36.88	55.52	-18.64	26.95	9.69	0.08	0.16	Average																																																																																																																												
2	0.159	50.16	65.52	-15.36	40.23	9.69	0.08	0.16	QP																																																																																																																												
3	0.204	26.72	53.45	-26.73	16.78	9.68	0.08	0.18	Average																																																																																																																												
4	0.204	40.45	63.45	-23.00	30.51	9.68	0.08	0.18	QP																																																																																																																												
5*	0.358	38.72	48.78	-10.06	28.78	9.67	0.08	0.19	Average																																																																																																																												
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7	1.276	28.15	46.00	-17.85	18.01	9.68	0.17	0.29	Average																																																																																																																												
8	1.276	34.57	56.00	-21.43	24.43	9.68	0.17	0.29	QP																																																																																																																												
9	4.430	21.45	46.00	-24.55	11.17	9.71	0.24	0.33	Average																																																																																																																												
10	4.430	25.37	56.00	-30.63	15.09	9.71	0.24	0.33	QP																																																																																																																												
11	18.920	25.88	50.00	-24.12	14.96	9.83	0.64	0.45	Average																																																																																																																												
12	18.920	31.23	60.00	-28.77	20.31	9.83	0.64	0.45	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	ax HE20-OFDMA	Test Freq. (MHz)	5825
Power Phase	Line		

Test by : Joe Liao

Temperature: 18°C

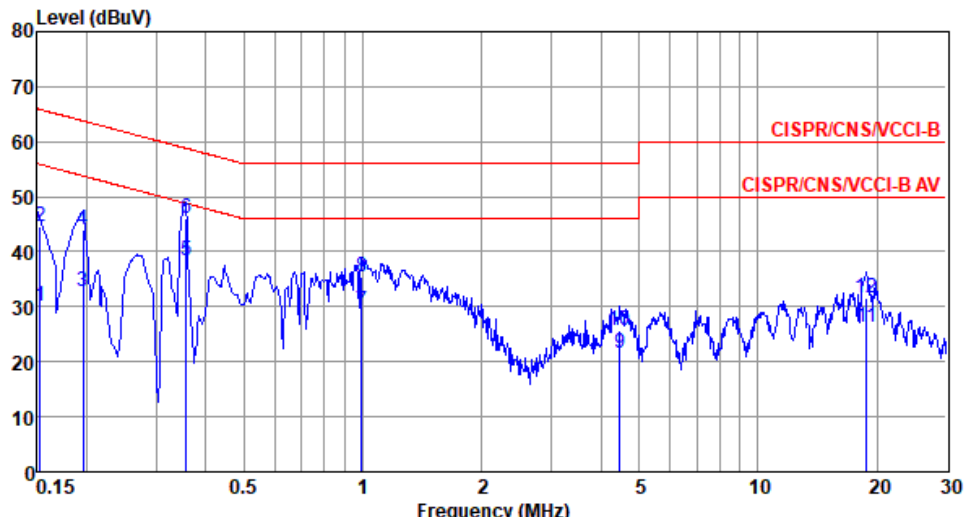
Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	34.08	55.52	-21.44	24.14	9.66	0.08	0.20	Average
2	0.159	48.49	65.52	-17.03	38.55	9.66	0.08	0.20	QP
3	0.195	32.50	53.80	-21.30	22.55	9.65	0.08	0.22	Average
4	0.195	43.78	63.80	-20.02	33.83	9.65	0.08	0.22	QP
5*	0.352	42.52	48.91	-6.39	32.47	9.64	0.08	0.33	Average
6	0.352	46.00	58.91	-12.91	35.95	9.64	0.08	0.33	QP
7	1.005	21.20	46.00	-24.80	11.02	9.65	0.16	0.37	Average
8	1.005	31.57	56.00	-24.43	21.39	9.65	0.16	0.37	QP
9	1.939	31.20	46.00	-14.80	20.95	9.66	0.20	0.39	Average
10	1.939	37.23	56.00	-18.77	26.98	9.66	0.20	0.39	QP
11	19.122	22.97	50.00	-27.03	12.02	9.68	0.64	0.63	Average
12	19.122	28.53	60.00	-31.47	17.58	9.68	0.64	0.63	QP

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

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

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825																																																																																																																																		
Power Phase	Neutral																																																																																																																																				
Test by : Joe Liao Temperature: 18°C Humidity: 60%																																																																																																																																					
 The graph displays the measured level (blue line) against frequency (MHz) on a logarithmic scale. Two red limit lines are shown: CISPR/CNS/VCCI-B (upper) and CISPR/CNS/VCCI-B AV (lower). The measured level generally stays below the limits, with some peaks near 0.15 MHz and 0.358 MHz. <table><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><tr><td>1</td><td>0.152</td><td>30.24</td><td>55.87</td><td>-25.63</td><td>20.31</td><td>9.69</td><td>0.08</td><td>0.16</td><td>Average</td></tr><tr><td>2</td><td>0.152</td><td>44.68</td><td>65.87</td><td>-21.19</td><td>34.75</td><td>9.69</td><td>0.08</td><td>0.16</td><td>QP</td></tr><tr><td>3</td><td>0.195</td><td>32.81</td><td>53.80</td><td>-20.99</td><td>22.87</td><td>9.68</td><td>0.08</td><td>0.18</td><td>Average</td></tr><tr><td>4</td><td>0.195</td><td>43.98</td><td>63.80</td><td>-19.82</td><td>34.04</td><td>9.68</td><td>0.08</td><td>0.18</td><td>QP</td></tr><tr><td>5*</td><td>0.358</td><td>38.43</td><td>48.78</td><td>-10.35</td><td>28.49</td><td>9.67</td><td>0.08</td><td>0.19</td><td>Average</td></tr><tr><td>6</td><td>0.358</td><td>45.97</td><td>58.78</td><td>-12.81</td><td>36.03</td><td>9.67</td><td>0.08</td><td>0.19</td><td>QP</td></tr><tr><td>7</td><td>0.994</td><td>29.23</td><td>46.00</td><td>-16.77</td><td>19.11</td><td>9.68</td><td>0.16</td><td>0.28</td><td>Average</td></tr><tr><td>8</td><td>0.994</td><td>35.56</td><td>56.00</td><td>-20.44</td><td>25.44</td><td>9.68</td><td>0.16</td><td>0.28</td><td>QP</td></tr><tr><td>9</td><td>4.478</td><td>21.49</td><td>46.00</td><td>-24.51</td><td>11.20</td><td>9.71</td><td>0.24</td><td>0.34</td><td>Average</td></tr><tr><td>10</td><td>4.478</td><td>25.74</td><td>56.00</td><td>-30.26</td><td>15.45</td><td>9.71</td><td>0.24</td><td>0.34</td><td>QP</td></tr><tr><td>11</td><td>18.820</td><td>26.24</td><td>50.00</td><td>-23.76</td><td>15.32</td><td>9.83</td><td>0.64</td><td>0.45</td><td>Average</td></tr><tr><td>12</td><td>18.820</td><td>31.64</td><td>60.00</td><td>-28.36</td><td>20.72</td><td>9.83</td><td>0.64</td><td>0.45</td><td>QP</td></tr></table>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark	1	0.152	30.24	55.87	-25.63	20.31	9.69	0.08	0.16	Average	2	0.152	44.68	65.87	-21.19	34.75	9.69	0.08	0.16	QP	3	0.195	32.81	53.80	-20.99	22.87	9.68	0.08	0.18	Average	4	0.195	43.98	63.80	-19.82	34.04	9.68	0.08	0.18	QP	5*	0.358	38.43	48.78	-10.35	28.49	9.67	0.08	0.19	Average	6	0.358	45.97	58.78	-12.81	36.03	9.67	0.08	0.19	QP	7	0.994	29.23	46.00	-16.77	19.11	9.68	0.16	0.28	Average	8	0.994	35.56	56.00	-20.44	25.44	9.68	0.16	0.28	QP	9	4.478	21.49	46.00	-24.51	11.20	9.71	0.24	0.34	Average	10	4.478	25.74	56.00	-30.26	15.45	9.71	0.24	0.34	QP	11	18.820	26.24	50.00	-23.76	15.32	9.83	0.64	0.45	Average	12	18.820	31.64	60.00	-28.36	20.72	9.83	0.64	0.45	QP
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark																																																																																																																												
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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.

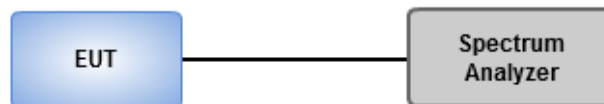
Occupied Bandwidth

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	20~22°C / 65~67%	Tested By	Aska Huang
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Non-beamforming mode

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)_4TX	31.35M	17.541M	17M5D1D	23.91M	17.121M
802.11ax HEW20_Nss1,(MCS0)_4TX-OFDMA	37.89M	19.31M	19M3D1D	23.52M	19.13M
802.11ax HEW40_Nss1,(MCS0)_4TX-OFDMA	49.86M	38.261M	38M3D1D	44.88M	38.141M
802.11ax HEW80_Nss1,(MCS0)_4TX-OFDMA	97.32M	78.081M	78M1D1D	84.36M	77.841M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.56M	19.1M	19M1D1D	16.32M	17.121M
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	18.96M	19.67M	19M7D1D	18.93M	19.13M
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	37.62M	46.117M	46M1D1D	37.2M	38.441M
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	76.92M	78.201M	78M2D1D	3.76M	22.329M

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

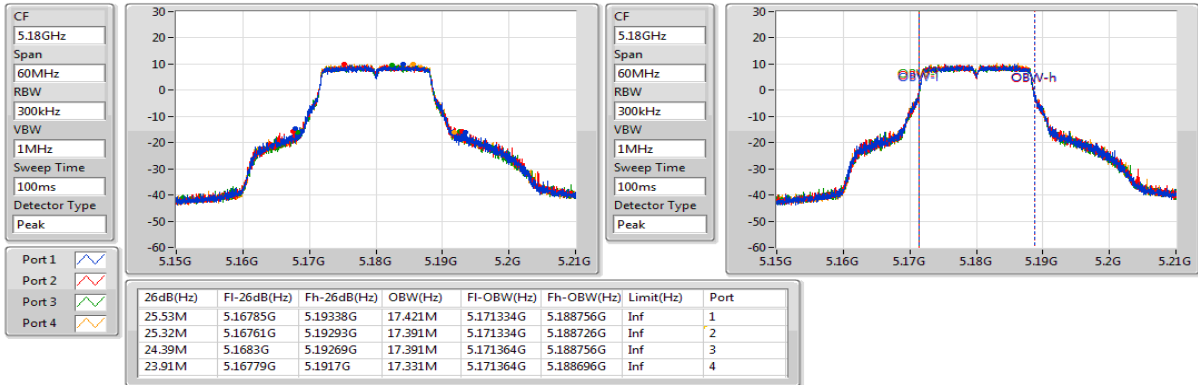
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX										
5180MHz	Pass	Inf	25.53M	17.421M	25.32M	17.391M	24.39M	17.391M	23.91M	17.331M
5200MHz	Pass	Inf	31.02M	17.541M	27.42M	17.361M	31.35M	17.241M	29.13M	17.301M
5240MHz	Pass	Inf	26.52M	17.271M	25.74M	17.151M	24.84M	17.151M	24.9M	17.121M
802.11a_Nss1,(6Mbps)_2TX										
5745MHz	Pass	500k	16.35M	17.121M	16.32M	17.631M				
5785MHz	Pass	500k	16.35M	17.241M	16.38M	18.411M				
5825MHz	Pass	500k	16.35M	17.241M	16.56M	19.1M				
802.11ax HEW20_Nss1,(MCS0)_4TX-OFDMA										
5180MHz	Pass	Inf	26.07M	19.22M	25.02M	19.25M	26.85M	19.25M	24.78M	19.22M
5200MHz	Pass	Inf	37.89M	19.31M	35.4M	19.25M	34.8M	19.28M	34.41M	19.31M
5240MHz	Pass	Inf	33.69M	19.22M	23.52M	19.19M	24.54M	19.25M	23.91M	19.13M
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA										
5745MHz	Pass	500k	18.96M	19.13M	18.93M	19.25M				
5785MHz	Pass	500k	18.93M	19.16M	18.96M	19.43M				
5825MHz	Pass	500k	18.93M	19.16M	18.93M	19.67M				
802.11ax HEW40_Nss1,(MCS0)_4TX-OFDMA										
5190MHz	Pass	Inf	46.14M	38.261M	46.56M	38.141M	44.88M	38.141M	49.32M	38.201M
5230MHz	Pass	Inf	49.86M	38.261M	45.96M	38.201M	45.06M	38.201M	47.58M	38.141M
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA										
5755MHz	Pass	500k	37.2M	38.501M	37.62M	40.84M				
5795MHz	Pass	500k	37.5M	38.441M	37.44M	46.117M				
802.11ax HEW80_Nss1,(MCS0)_4TX-OFDMA										
5210MHz	Pass	Inf	84.96M	77.961M	85.2M	77.841M	84.36M	78.081M	97.32M	77.961M
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA										
5775MHz	Pass	500k	75.96M	77.481M	76.92M	78.201M				

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)_4TX

EBW

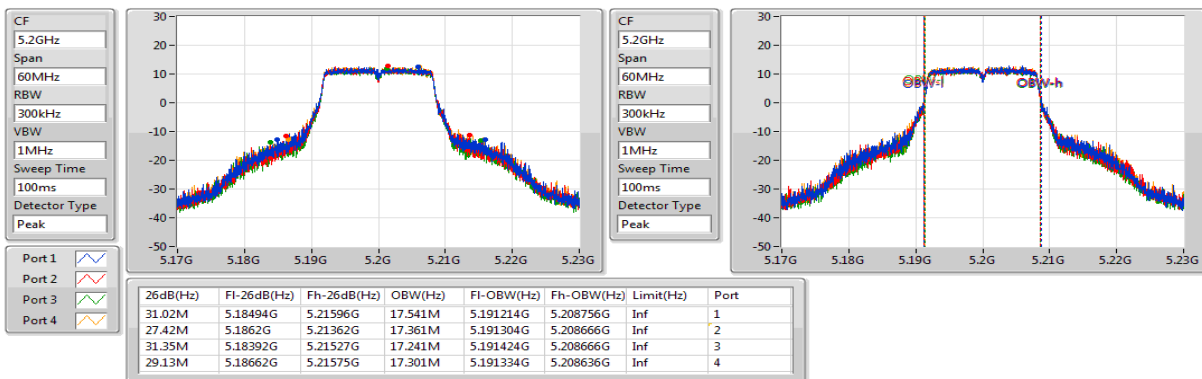
5180MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

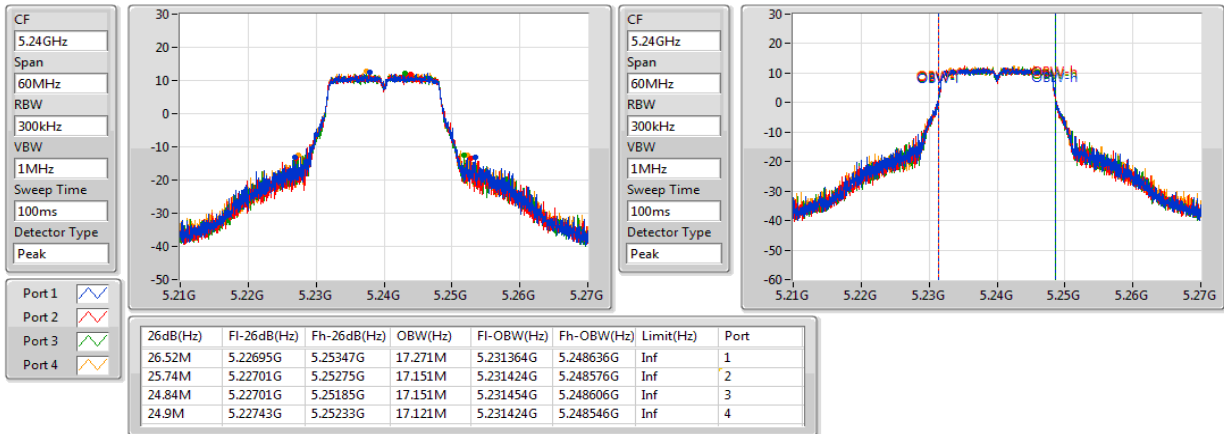
5200MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

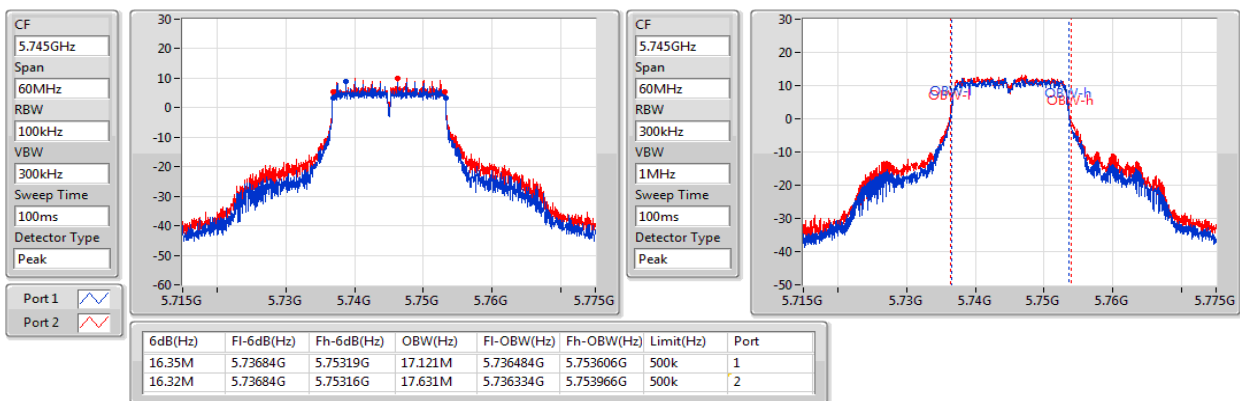
5240MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

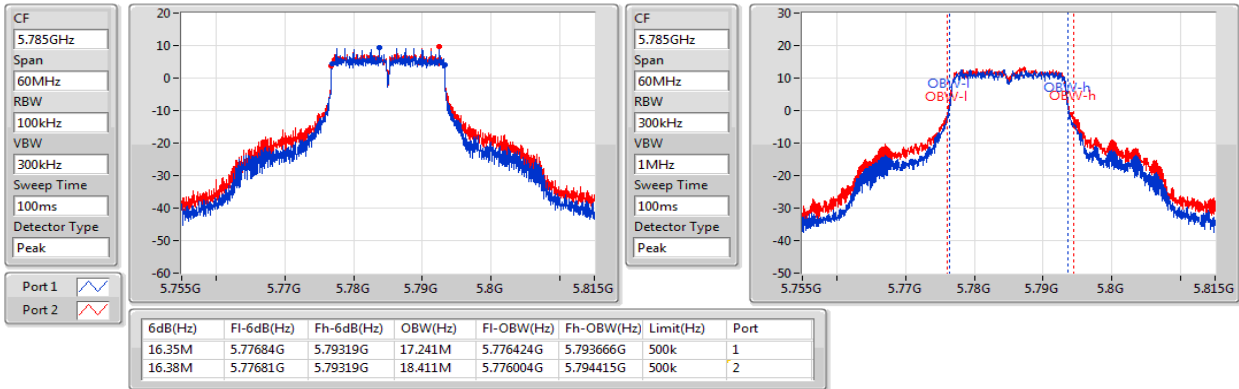
5745MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

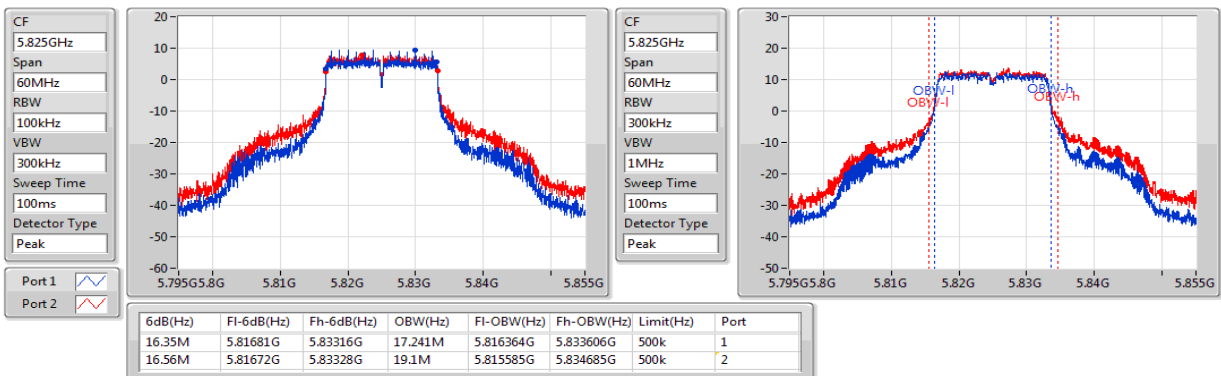
5785MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

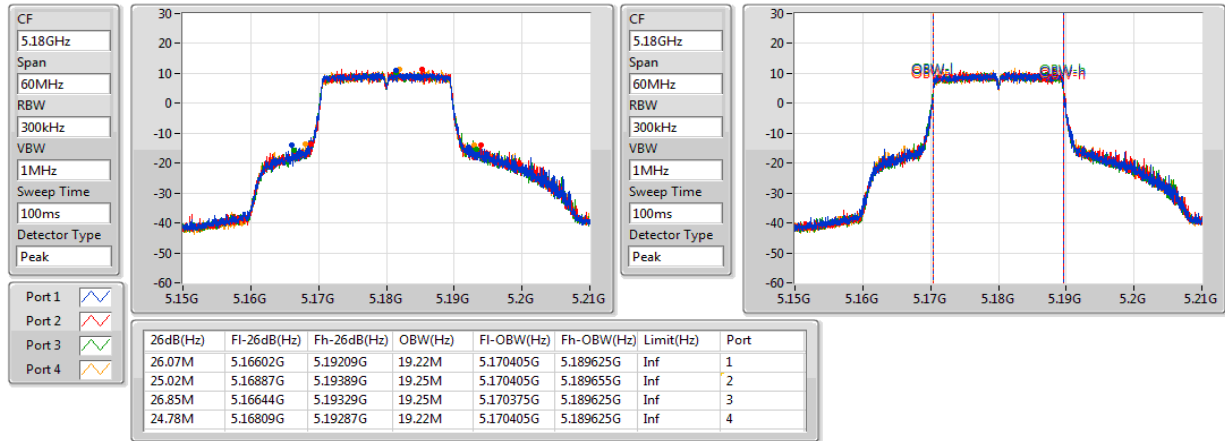
5825MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

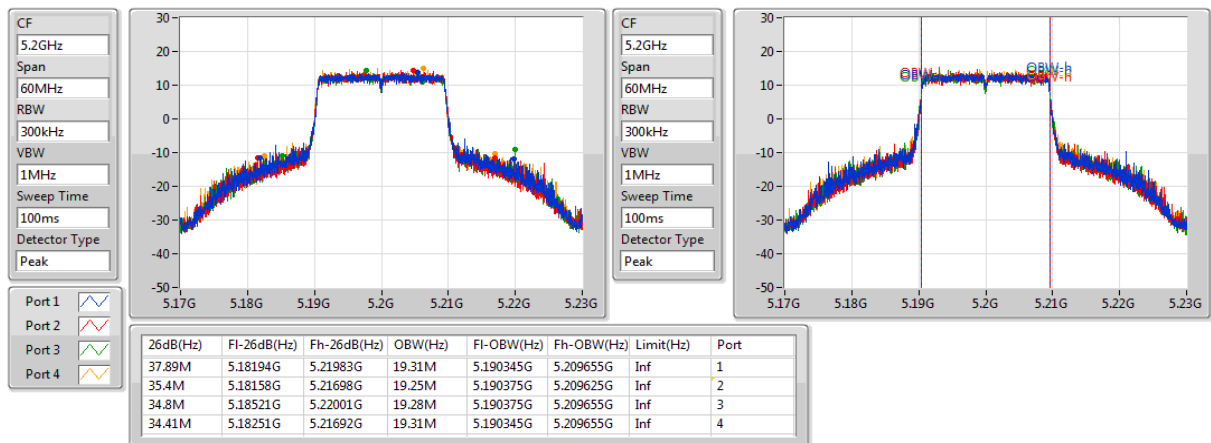
5180MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

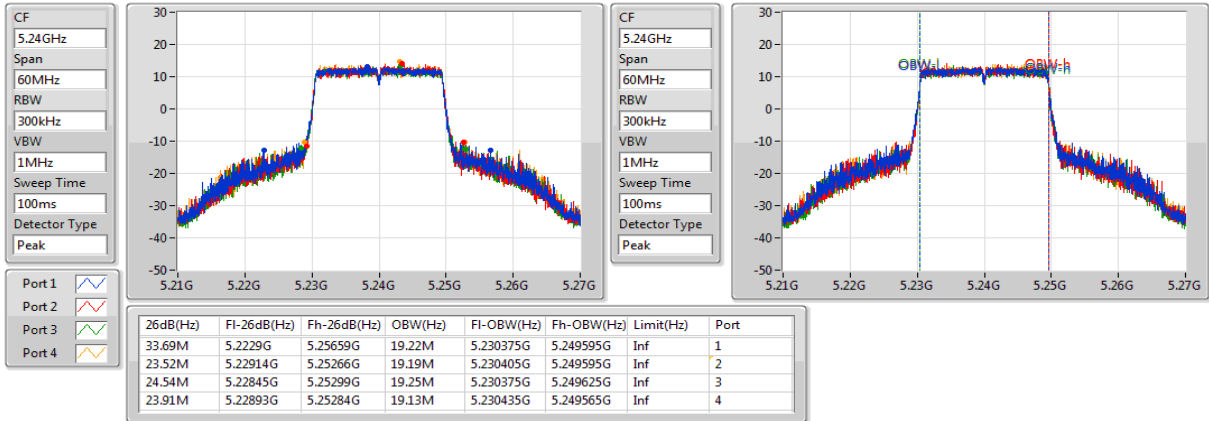
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802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

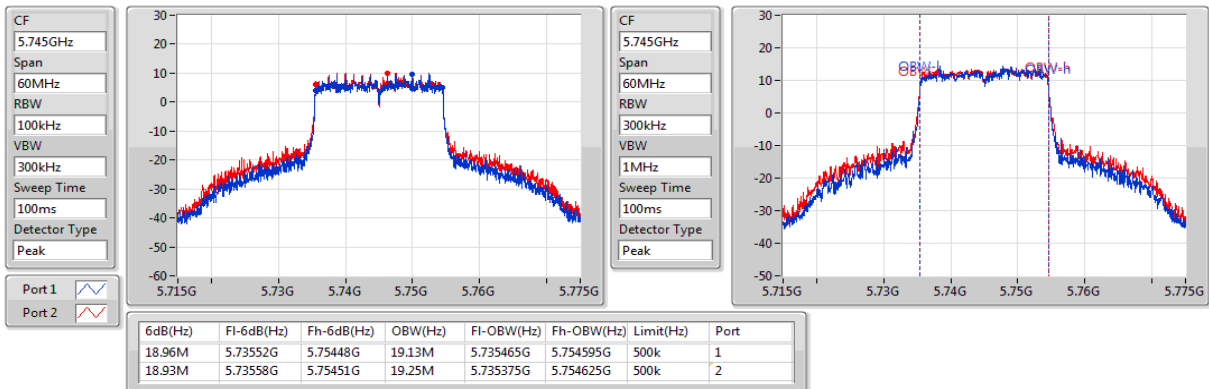
5240MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

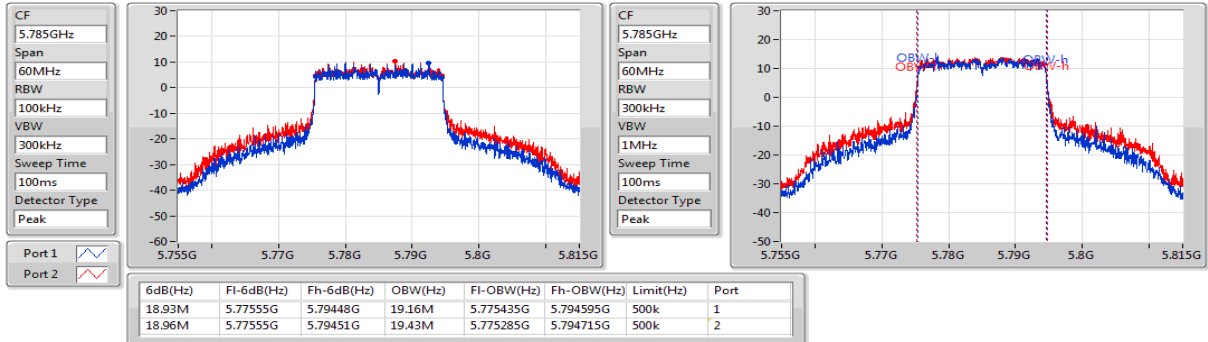
5745MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

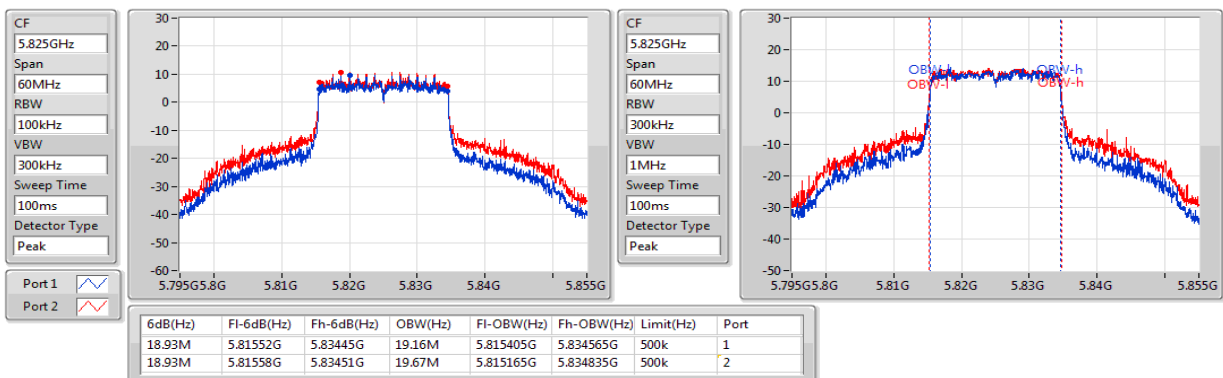
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802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

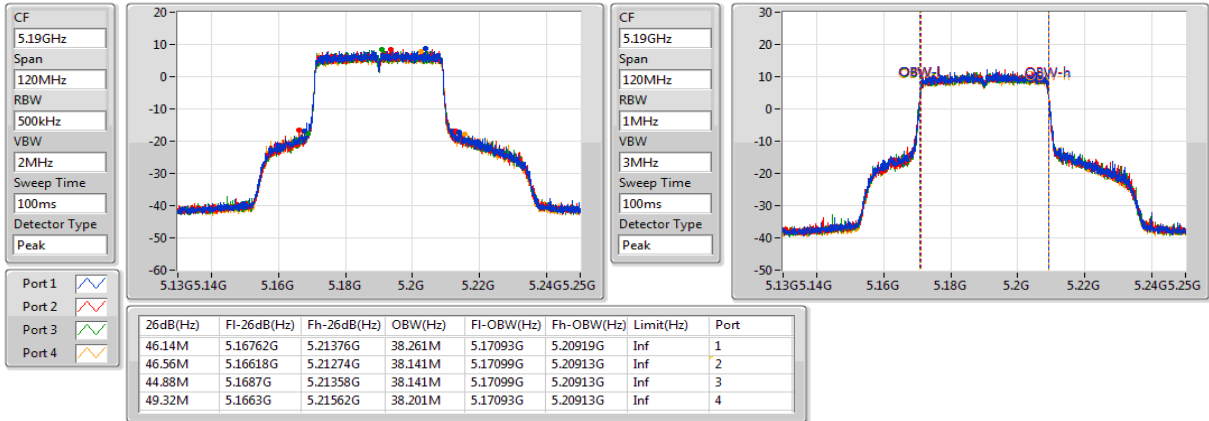
5825MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

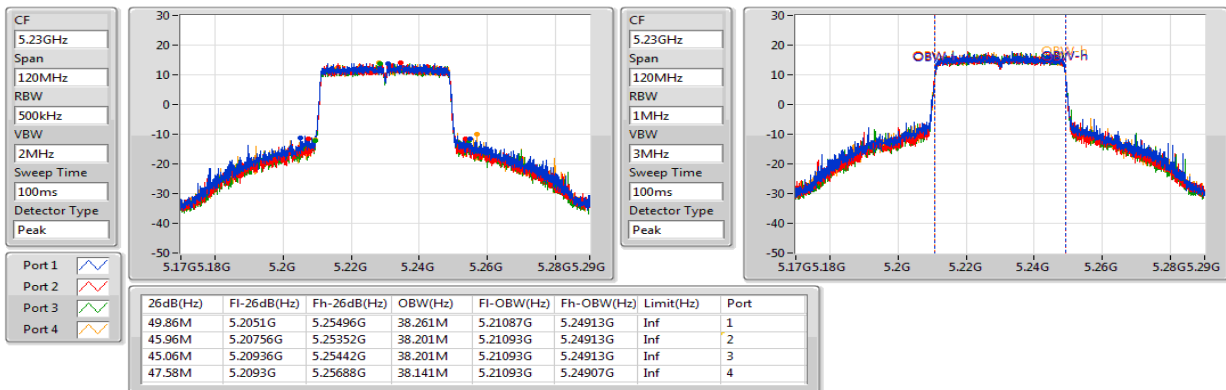
5190MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

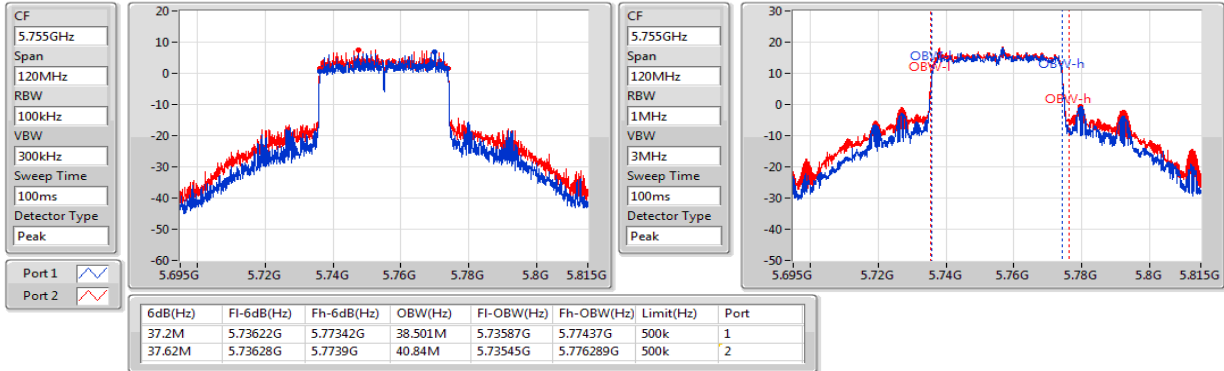
5230MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

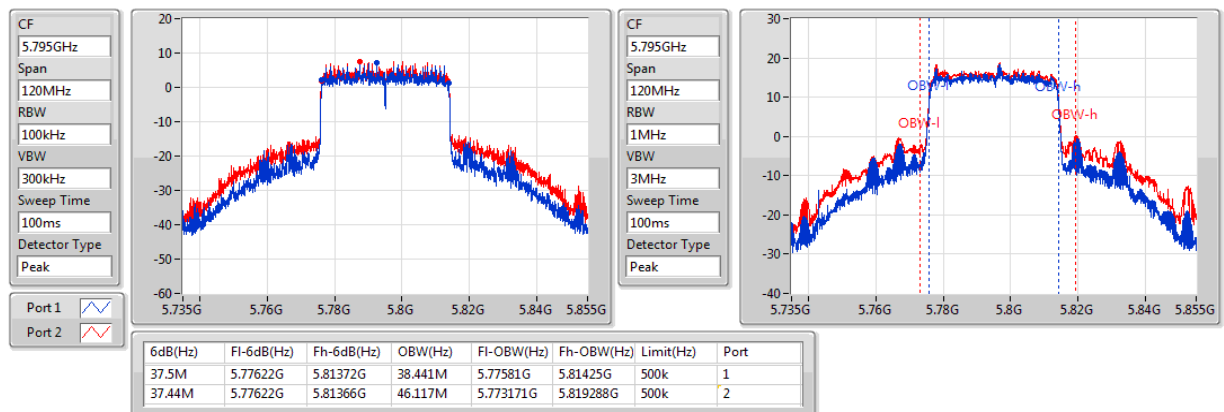
5755MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

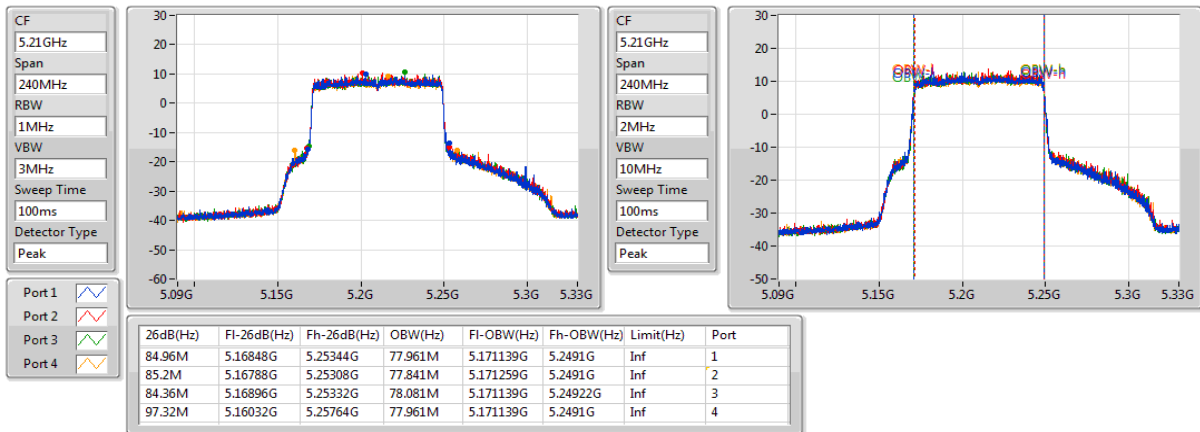
5795MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

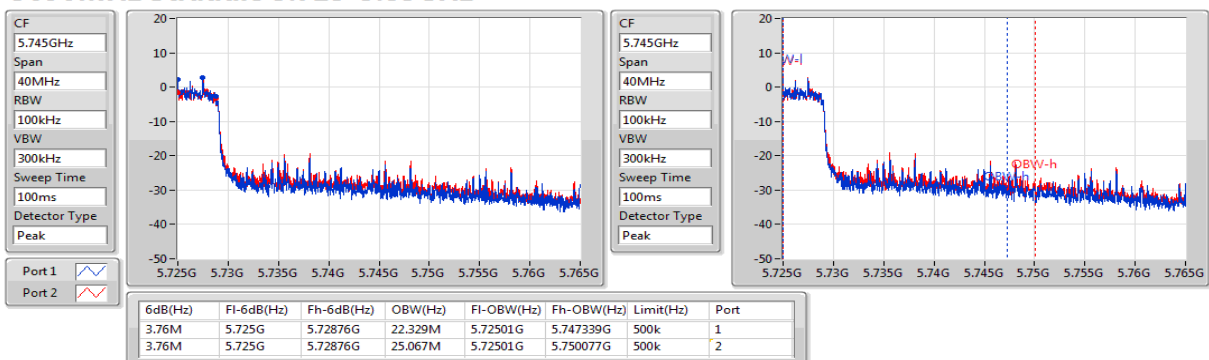
5210MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

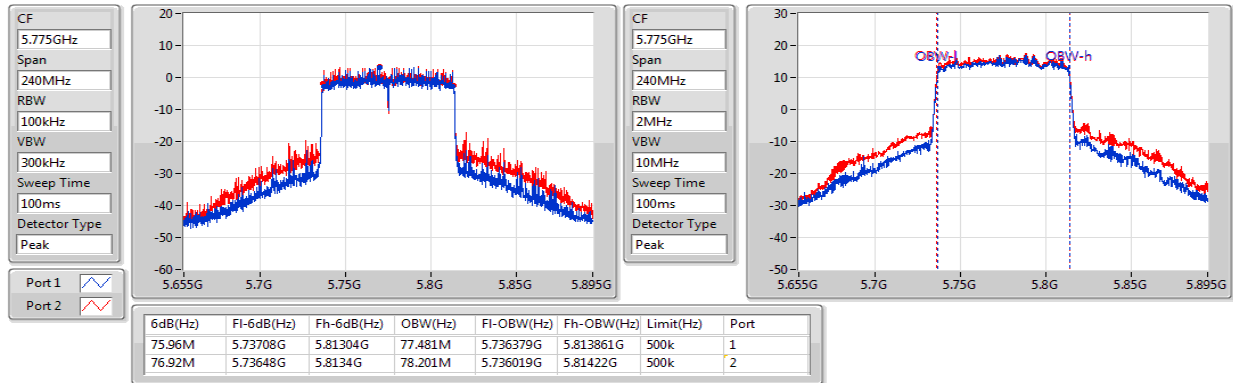
5690MHz Straddle 5.725-5.85GHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz



Beamforming mode

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX-OFDMA	33.03M	19.25M	19M2D1D	21.63M	19.13M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX-OFDMA	50.58M	38.141M	38M1D1D	40.56M	38.081M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX-OFDMA	86.04M	78.201M	78M2D1D	81.6M	77.721M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX-OFDMA	18.96M	19.52M	19M5D1D	18.93M	19.16M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX-OFDMA	37.62M	38.681M	38M7D1D	37.32M	38.141M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX-OFDMA	75.84M	78.081M	78M1D1D	71.28M	77.601M

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

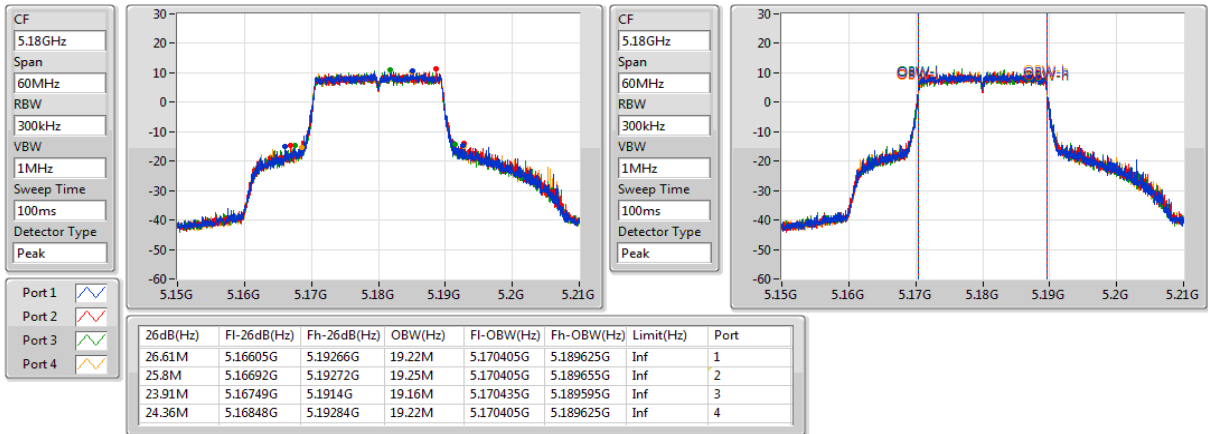
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX-OFDMA										
5180MHz	Pass	Inf	26.61M	19.22M	25.8M	19.25M	23.91M	19.16M	24.36M	19.22M
5200MHz	Pass	Inf	27.18M	19.22M	22.8M	19.25M	25.59M	19.16M	27.24M	19.22M
5240MHz	Pass	Inf	33.03M	19.19M	23.55M	19.16M	21.63M	19.16M	23.07M	19.13M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX-OFDMA										
5745MHz	Pass	500k	18.96M	19.19M	18.96M	19.31M				
5785MHz	Pass	500k	18.93M	19.16M	18.93M	19.4M				
5825MHz	Pass	500k	18.93M	19.19M	18.96M	19.52M				
802.11ax HEW40-BF_Nss1,(MCS0)_4TX-OFDMA										
5190MHz	Pass	Inf	46.32M	38.141M	50.58M	38.141M	49.44M	38.141M	45.66M	38.081M
5230MHz	Pass	Inf	48.48M	38.141M	42.06M	38.081M	42.06M	38.081M	40.56M	38.081M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX-OFDMA										
5755MHz	Pass	500k	37.32M	38.201M	37.62M	38.501M				
5795MHz	Pass	500k	37.62M	38.141M	37.62M	38.681M				
802.11ax HEW80-BF_Nss1,(MCS0)_4TX-OFDMA										
5210MHz	Pass	Inf	81.6M	78.201M	84M	77.841M	86.04M	77.841M	81.84M	77.721M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX-OFDMA										
5775MHz	Pass	500k	71.28M	77.601M	75.84M	78.081M				

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

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

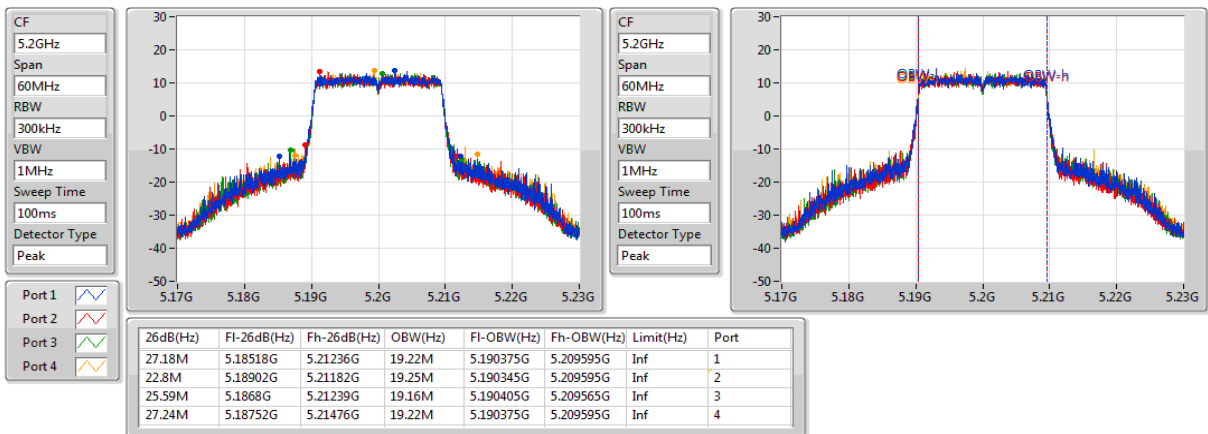
5180MHz



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

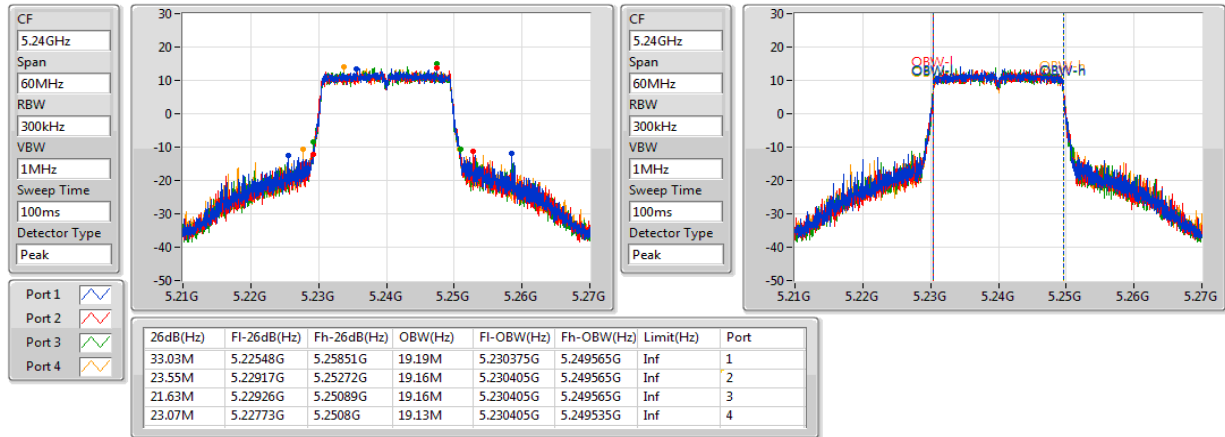
5200MHz



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

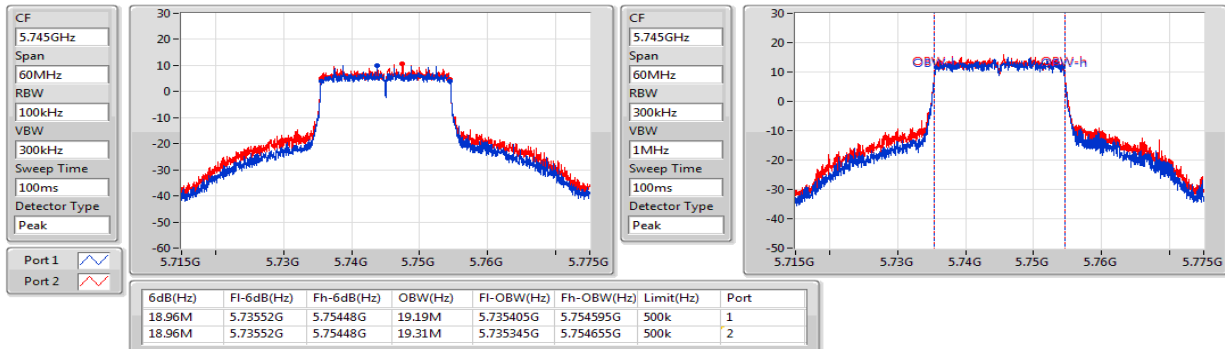
5240MHz



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

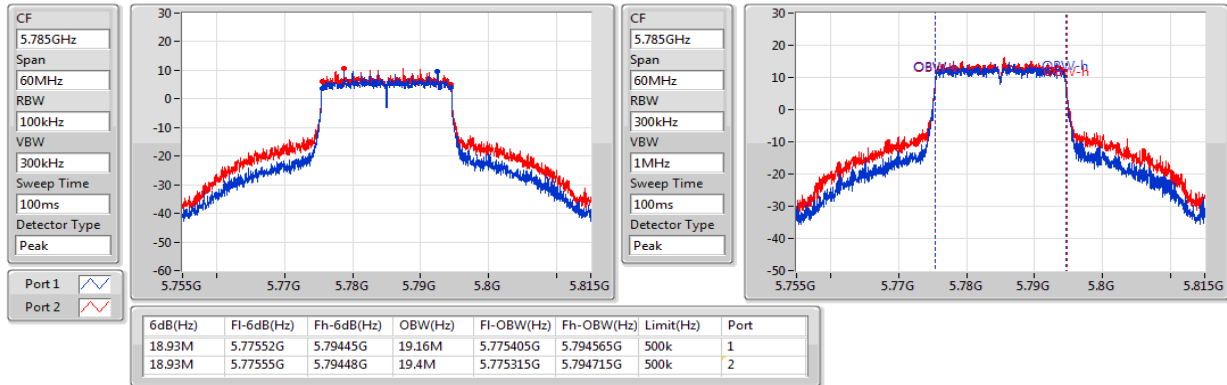
5745MHz



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

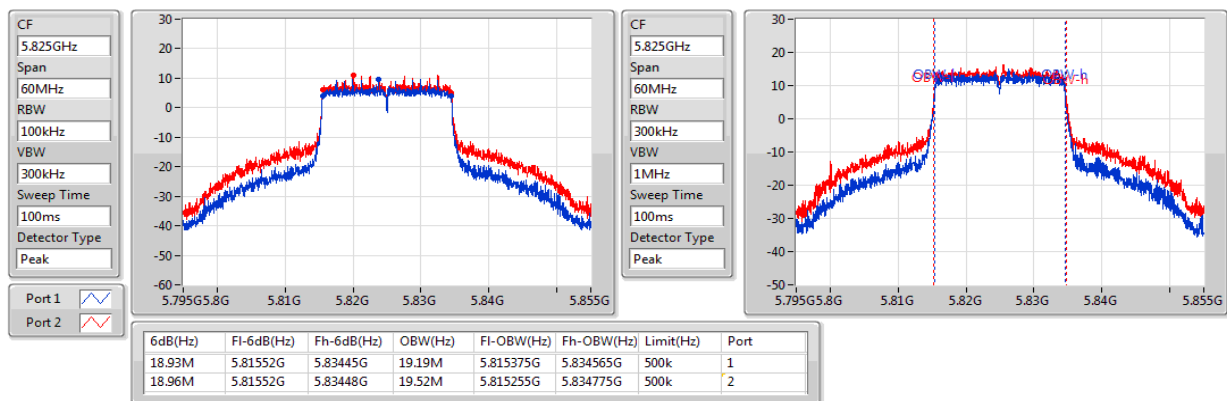
5785MHz



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

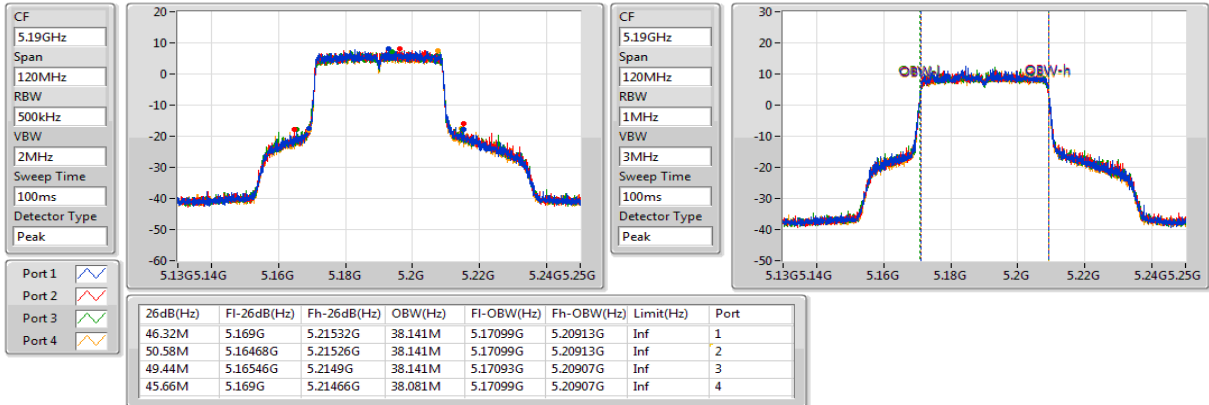
5825MHz



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

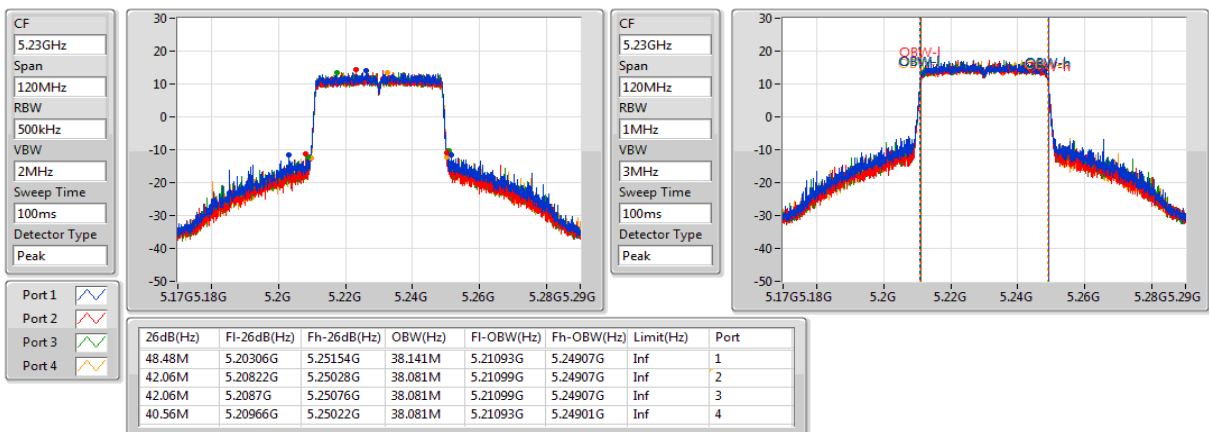
5190MHz



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

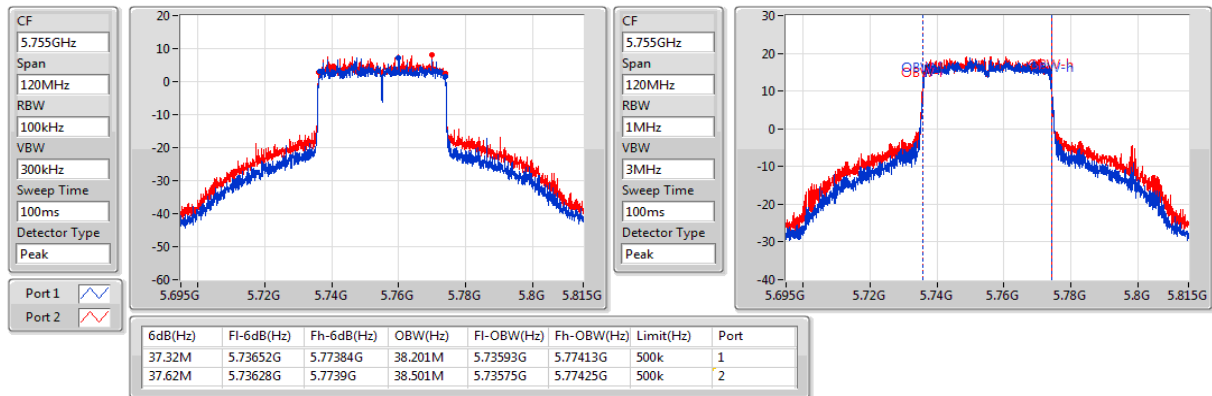
5230MHz



802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

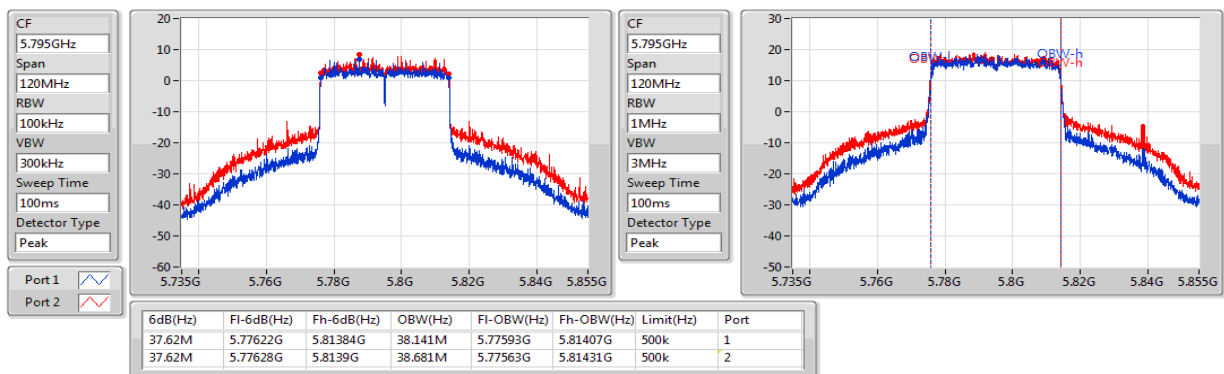
5755MHz



802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

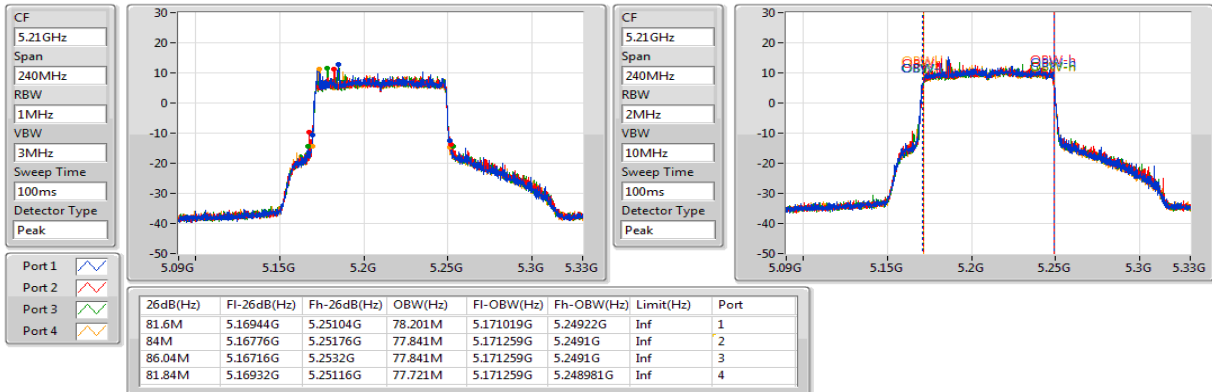
5795MHz



802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

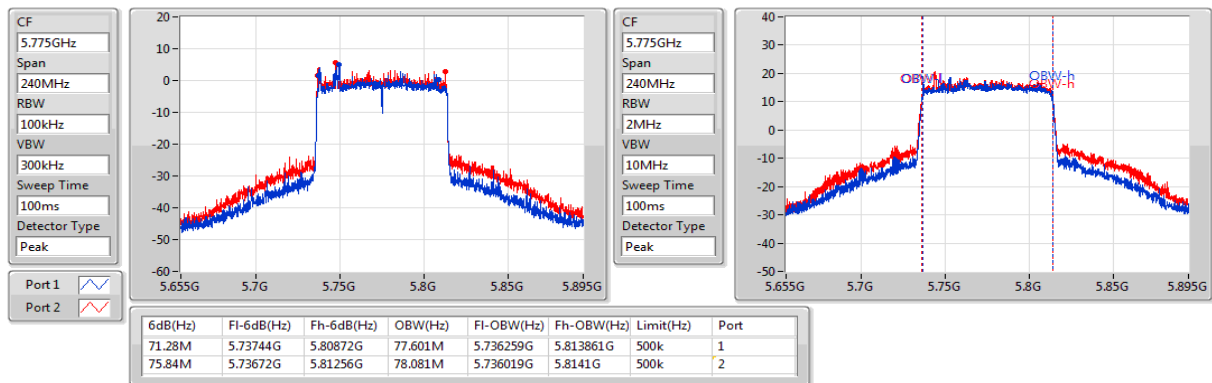
5210MHz



802.11ax HEW80-BF_Nss1,(MCS0)_2TX

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

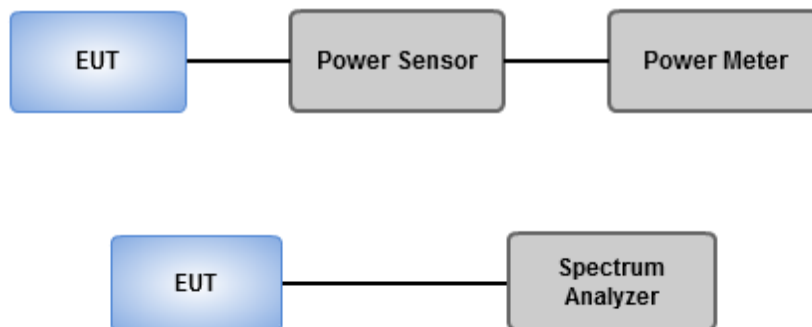
Note: "B" is the 26dB emission bandwidth in MHz.

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	20~22°C / 65~67%	Tested By	Aska Huang
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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)_4TX	26.51	0.44771	30.74	1.18577
802.11ax HEW20_Nss1,(MCS0)_4TX-OFDMA	27.08	0.51050	31.31	1.35207
802.11ax HEW40_Nss1,(MCS0)_4TX-OFDMA	27.05	0.50699	31.28	1.34276
802.11ax HEW80_Nss1,(MCS0)_4TX-OFDMA	22.51	0.17824	26.74	0.47206
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	24.59	0.28774	28.44	0.69823
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	24.95	0.31261	28.80	0.75858
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	24.86	0.30620	28.71	0.74302
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	23.76	0.23768	27.61	0.57677

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)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.23	18.2	18.26	18.11	18.35	24.25	30.00	28.48	36.00
5200MHz	Pass	4.23	20.56	20.47	20.36	20.56	26.51	30.00	30.74	36.00
5240MHz	Pass	4.23	20.34	20.46	20.15	20.51	26.39	30.00	30.62	36.00
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	3.85	21.15	21.95			24.58	30.00	28.43	36.00
5785MHz	Pass	3.85	21.18	21.94			24.59	30.00	28.44	36.00
5825MHz	Pass	3.85	20.93	21.95			24.48	30.00	28.33	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.23	18.23	18.06	18.02	18.21	24.15	30.00	28.38	36.00
5200MHz	Pass	4.23	21.16	21.11	20.82	21.13	27.08	30.00	31.31	36.00
5240MHz	Pass	4.23	20.92	20.98	20.83	21.01	26.96	30.00	31.19	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	3.85	21.53	22.03			24.80	30.00	28.65	36.00
5785MHz	Pass	3.85	21.34	22.11			24.75	30.00	28.60	36.00
5825MHz	Pass	3.85	21.35	22.46			24.95	30.00	28.80	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	4.23	15.53	15.32	15.21	15.07	21.31	30.00	25.54	36.00
5230MHz	Pass	4.23	21.32	21.12	20.83	20.81	27.05	30.00	31.28	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	3.85	21.37	22.26			24.85	30.00	28.70	36.00
5795MHz	Pass	3.85	21.41	22.25			24.86	30.00	28.71	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.23	16.54	16.75	16.32	16.34	22.51	30.00	26.74	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	3.85	20.35	21.12			23.76	30.00	27.61	36.00

DG = Directional Gain; 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)_4TX-OFDMA	26.64	0.46132	35.79	3.79315
802.11ax HEW40-BF_Nss1,(MCS0)_4TX-OFDMA	26.64	0.46132	35.79	3.79315
802.11ax HEW80-BF_Nss1,(MCS0)_4TX-OFDMA	21.59	0.14421	30.74	1.18577
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX-OFDMA	24.86	0.30620	30.92	1.23595
802.11ax HEW40-BF_Nss1,(MCS0)_2TX-OFDMA	24.82	0.30339	30.88	1.22462
802.11ax HEW80-BF_Nss1,(MCS0)_2TX-OFDMA	23.57	0.22751	29.63	0.91833

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)_ 4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.15	17.75	17.49	17.11	17.38	23.46	26.85	32.61	36.00
5200MHz	Pass	9.15	20.58	20.62	20.51	20.75	26.64	26.85	35.79	36.00
5240MHz	Pass	9.15	20.43	20.53	20.61	20.66	26.58	26.85	35.73	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_ 2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	6.06	21.49	21.82			24.67	29.94	30.73	36.00
5785MHz	Pass	6.06	21.22	21.93			24.60	29.94	30.66	36.00
5825MHz	Pass	6.06	21.31	22.33			24.86	29.94	30.92	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_ 4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.15	15.12	14.95	14.5	14.48	20.79	26.85	29.94	36.00
5230MHz	Pass	9.15	20.84	20.51	20.66	20.47	26.64	26.85	35.79	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_ 2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	6.06	21.47	22.13			24.82	29.94	30.88	36.00
5795MHz	Pass	6.06	21.12	22.13			24.66	29.94	30.72	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_ 4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	9.15	15.65	15.88	15.46	15.27	21.59	26.85	30.74	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_ 2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	6.06	20.36	20.76			23.57	29.94	29.63	36.00

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

Note:

For 5150~5250MHz:

Directional gain = $10 \times \log((10^{3.35/20} + 10^{2.19/20} + 10^{2.62/20} + 10^{4.23/20})^2/4) = 9.15 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to 30 dBm – (9.15 dBi – 6 dBi) = 26.85 dBm.

For 5725~5850MHz:

Directional gain = $10 \times \log((10^{2.16/20} + 10^{3.85/20})^2/2) = 6.06 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to 30 dBm – (6.06 dBi – 6 dBi) = 29.94 dBm.

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

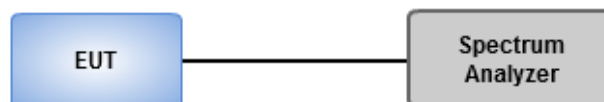
Duty cycle $\geq 98\%$

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	20~22°C / 65~67%	Tested By	Aska Huang
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Non-beamforming mode

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	13.60	22.75
802.11ax HEW20_Nss1,(MCS0)_4TX-OFDMA	13.60	22.75
802.11ax HEW40_Nss1,(MCS0)_4TX-OFDMA	10.62	19.77
802.11ax HEW80_Nss1,(MCS0)_4TX-OFDMA	2.87	12.02
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.11	16.17
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	9.88	15.94
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	6.96	13.02
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	3.16	9.22

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)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.15	5.28	5.39	5.23	5.45	11.28	13.85	20.43	23.00
5200MHz	Pass	9.15	7.77	7.86	7.68	7.78	13.60	13.85	22.75	23.00
5240MHz	Pass	9.15	7.58	7.69	7.37	7.69	13.45	13.85	22.60	23.00
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	6.06	6.58	7.15			9.60	29.94	15.66	36.00
5785MHz	Pass	6.06	6.70	7.34			9.92	29.94	15.98	36.00
5825MHz	Pass	6.06	6.74	7.52			10.11	29.94	16.17	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX- OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.15	4.76	4.64	4.71	4.54	10.54	13.85	19.69	23.00
5200MHz	Pass	9.15	7.63	7.72	7.54	8.00	13.60	13.85	22.75	23.00
5240MHz	Pass	9.15	7.55	7.49	7.49	7.83	13.46	13.85	22.61	23.00
802.11ax HEW20_Nss1,(MCS0)_2TX- OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	6.06	6.35	6.97			9.59	29.94	15.65	36.00
5785MHz	Pass	6.06	6.44	7.05			9.72	29.94	15.78	36.00
5825MHz	Pass	6.06	6.54	7.18			9.88	29.94	15.94	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX- OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.15	-0.72	-0.65	-1.03	-1.23	5.00	13.85	14.15	23.00
5230MHz	Pass	9.15	4.87	4.77	4.51	4.68	10.62	13.85	19.77	23.00
802.11ax HEW40_Nss1,(MCS0)_2TX- OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	6.06	3.55	4.37			6.77	29.94	12.83	36.00
5795MHz	Pass	6.06	3.61	4.58			6.96	29.94	13.02	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX- OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	9.15	-3.02	-2.80	-3.06	-3.32	2.87	13.85	12.02	23.00
802.11ax HEW80_Nss1,(MCS0)_2TX- OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	6.06	-0.01	0.56			3.16	29.94	9.22	36.00

DG = Directional Gain; 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;

For 5150~5250MHz:

Directional gain = $10 \times \log((10^{3.35/20} + 10^{2.19/20} + 10^{2.62/20} + 10^{4.23/20})^2/4) = 9.15 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to 17 dBm – (9.15 dBi – 6 dBi) = 13.85 dBm.

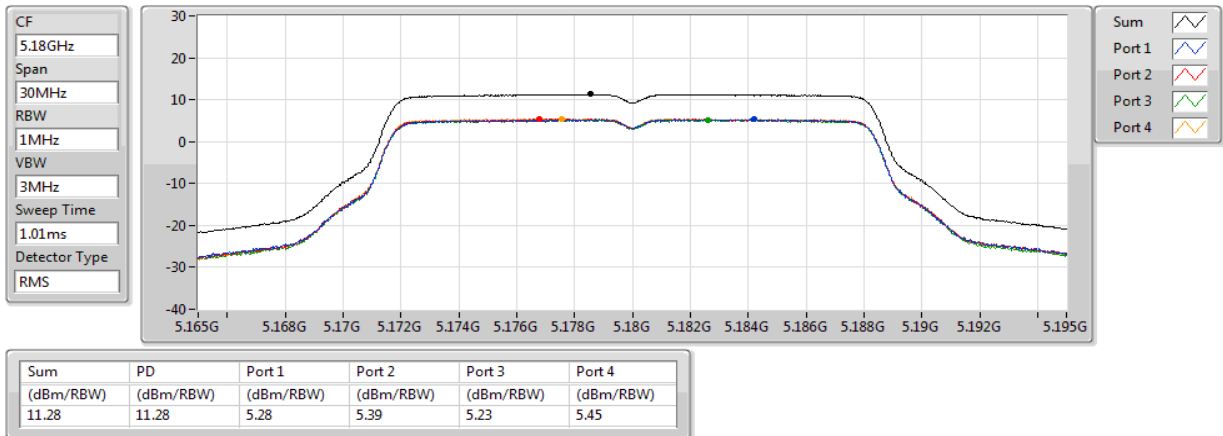
For 5725~5850MHz:

Directional gain = $10 \times \log((10^{2.16/20} + 10^{3.85/20})^2/2) = 6.06 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to 30 dBm – (6.06 dBi – 6 dBi) = 29.94 dBm.

802.11a_Nss1,(6Mbps)_4TX

PSD

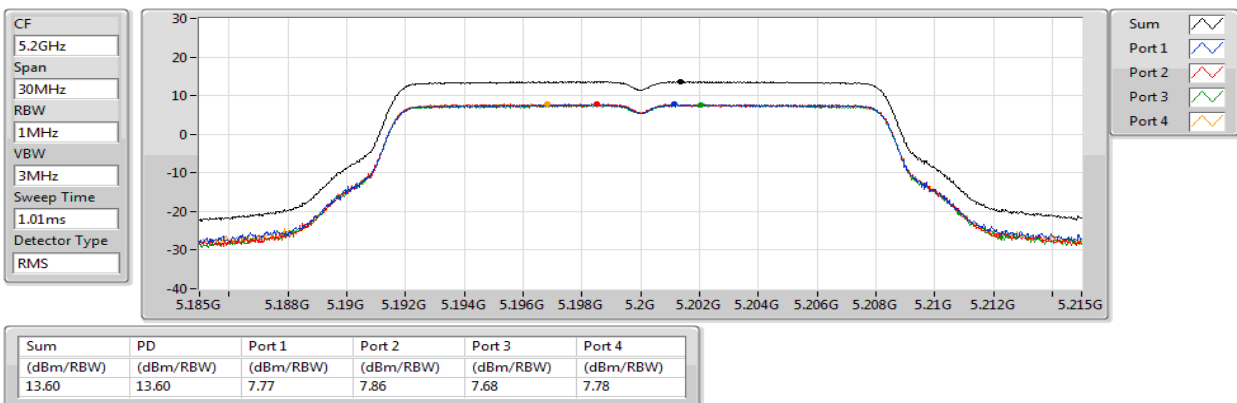
5180MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

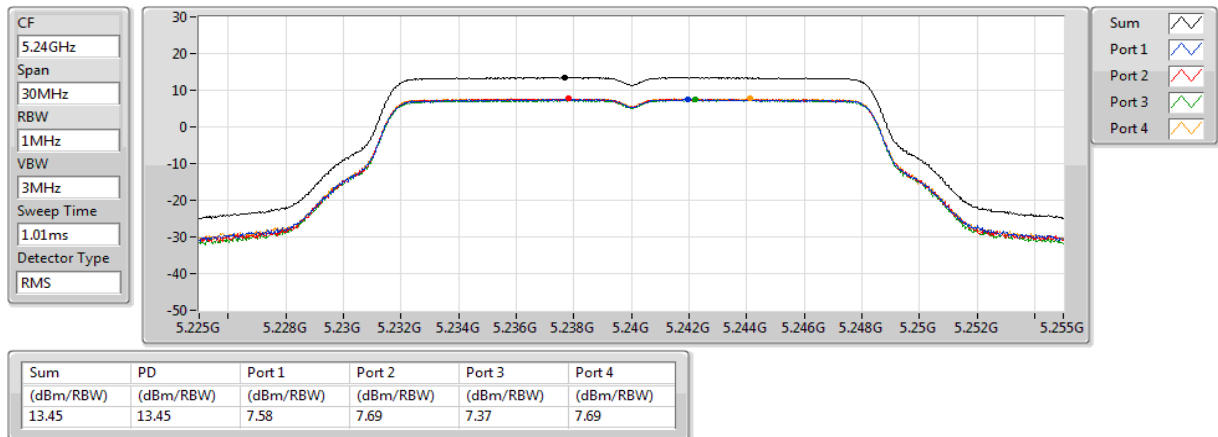
5200MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

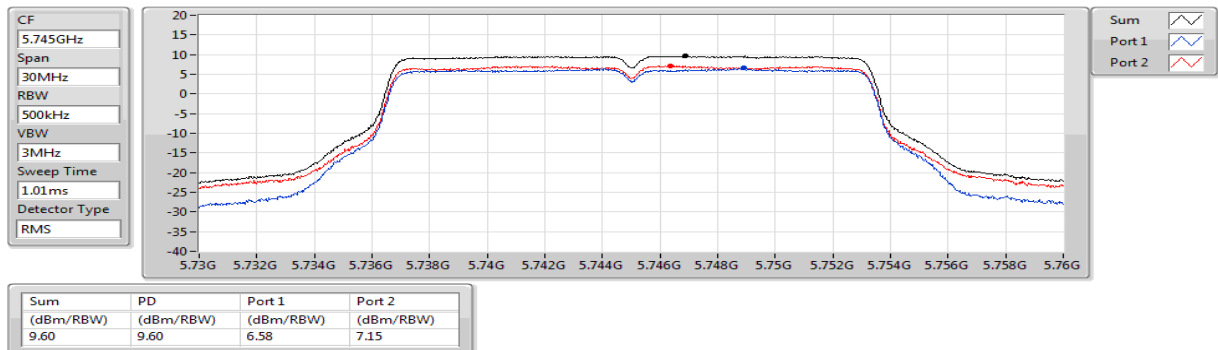
5240MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

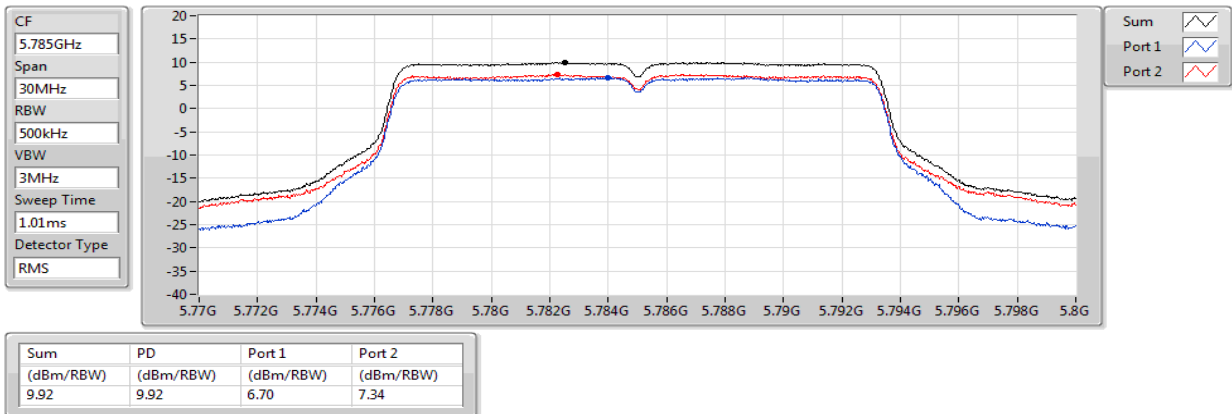
5745MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

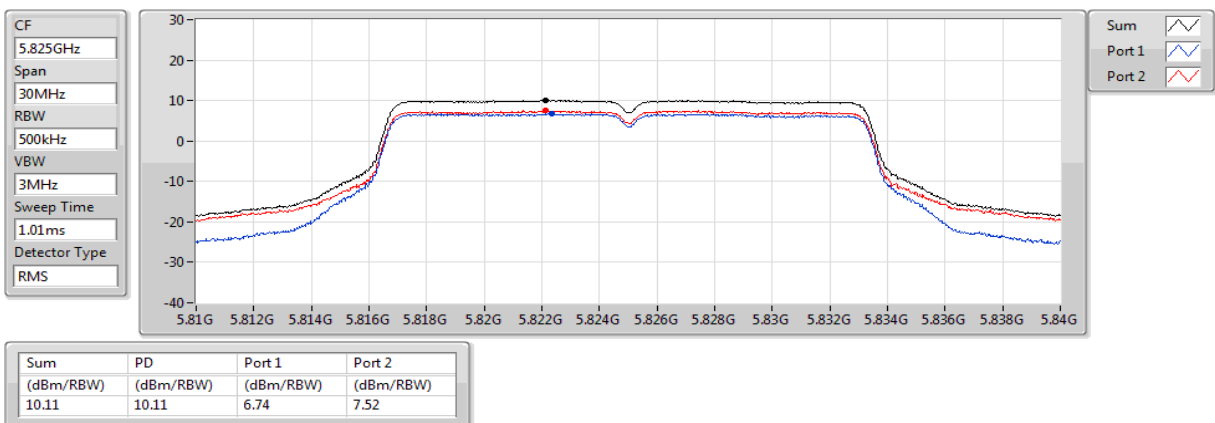
5785MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

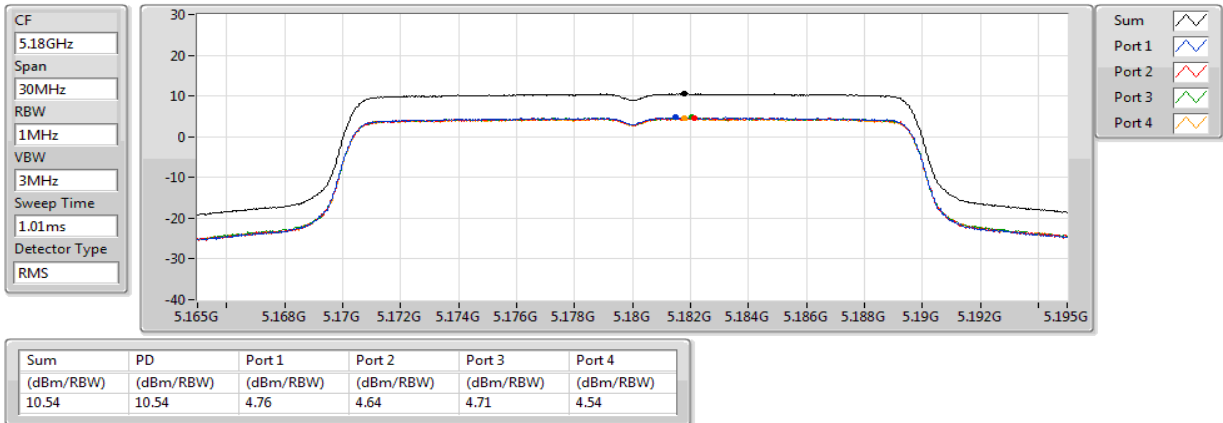
5825MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

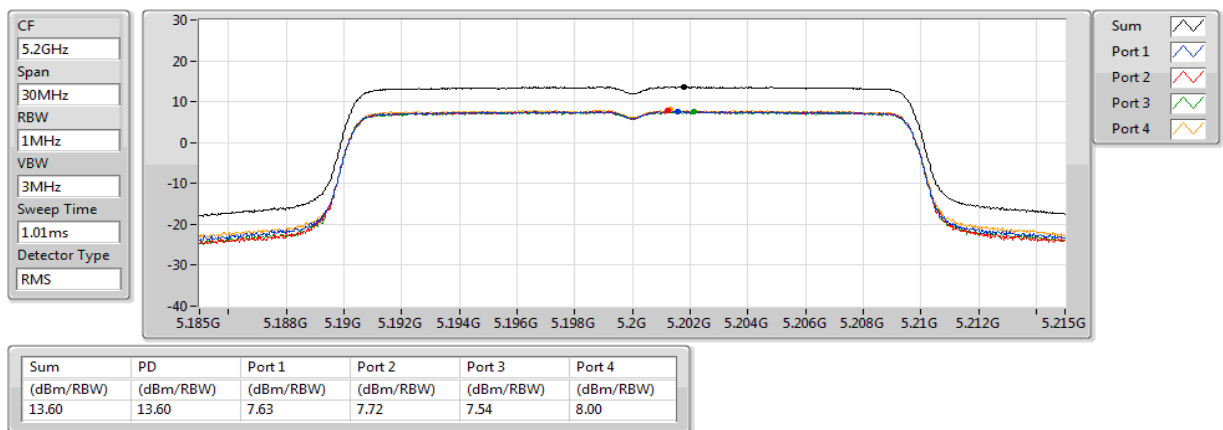
5180MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

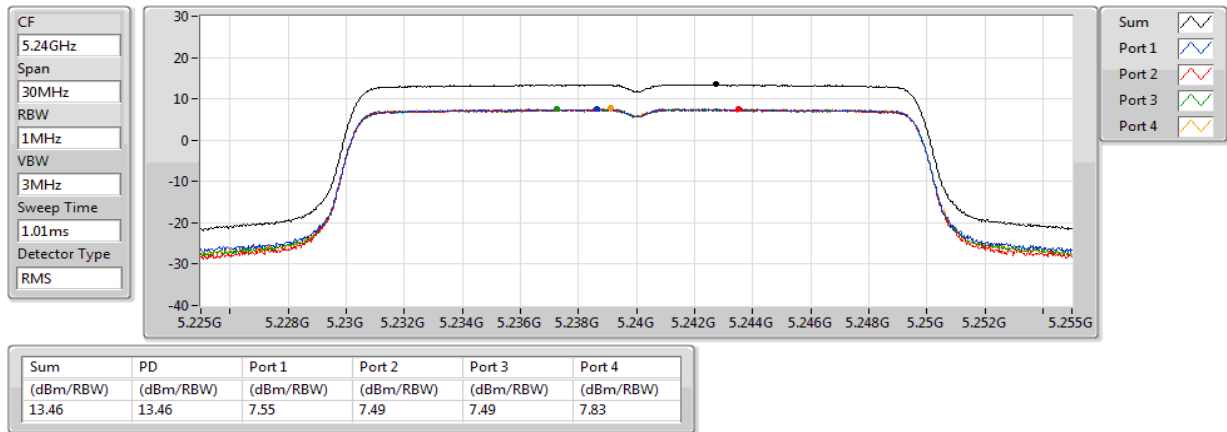
5200MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

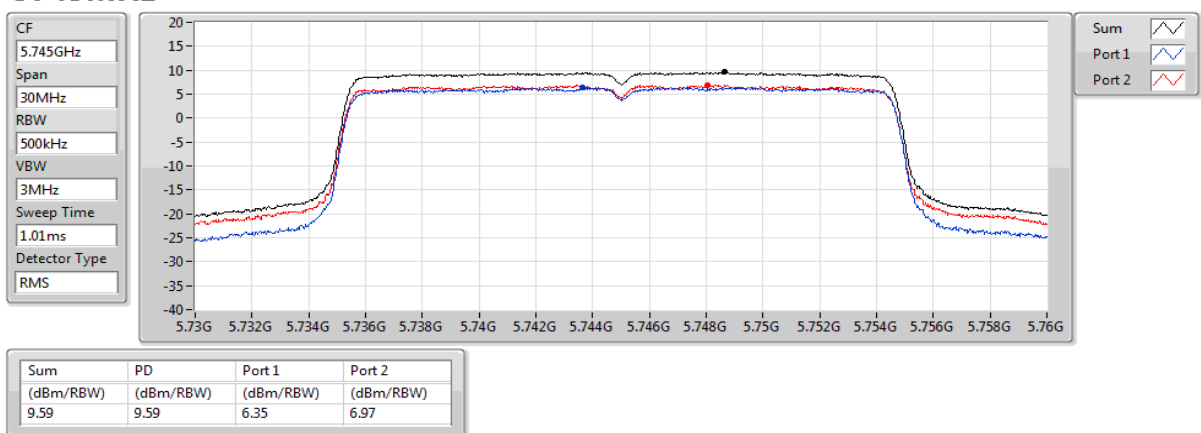
5240MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

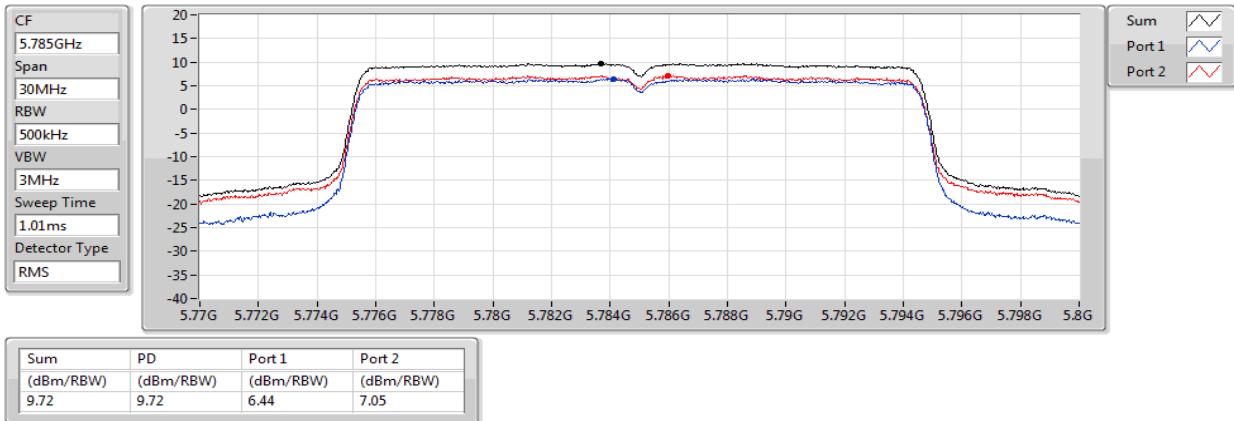
5745MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

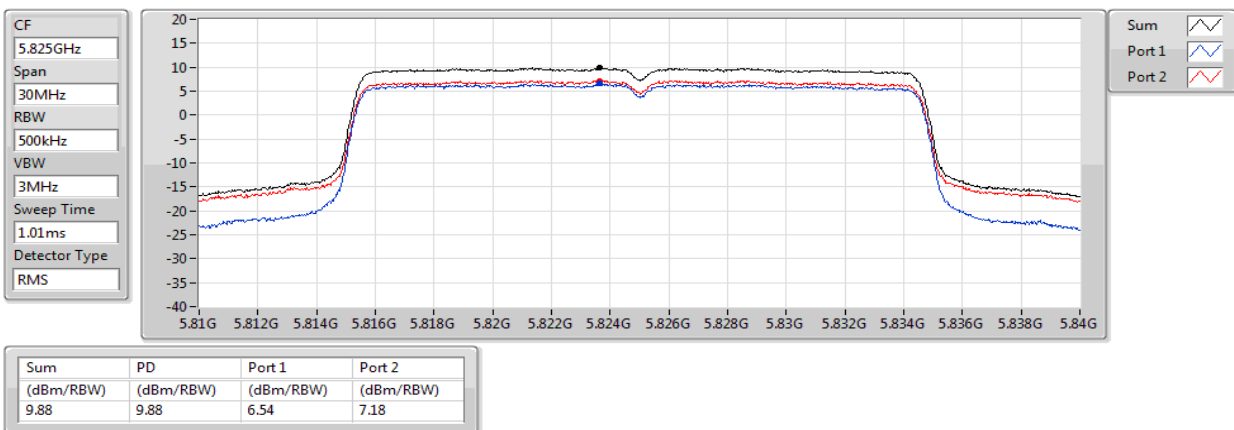
5785MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

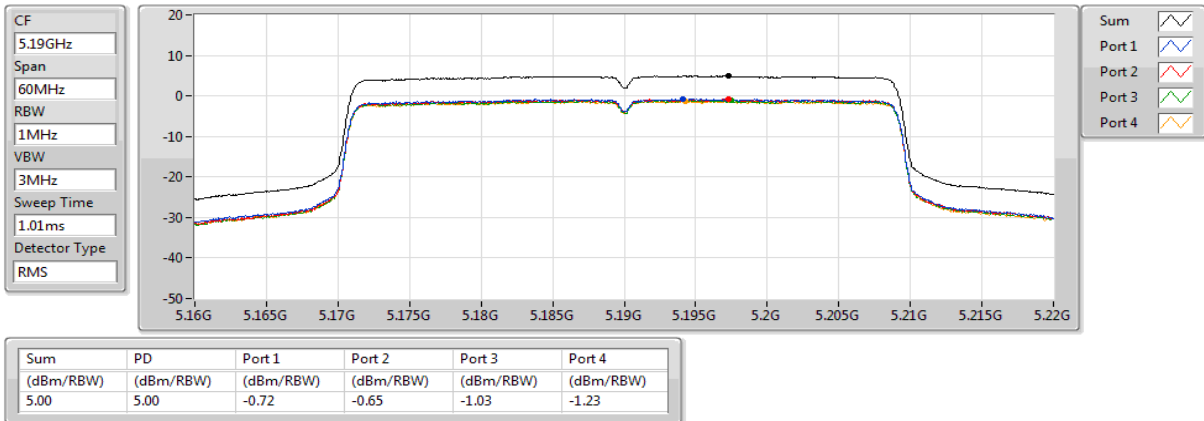
5825MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

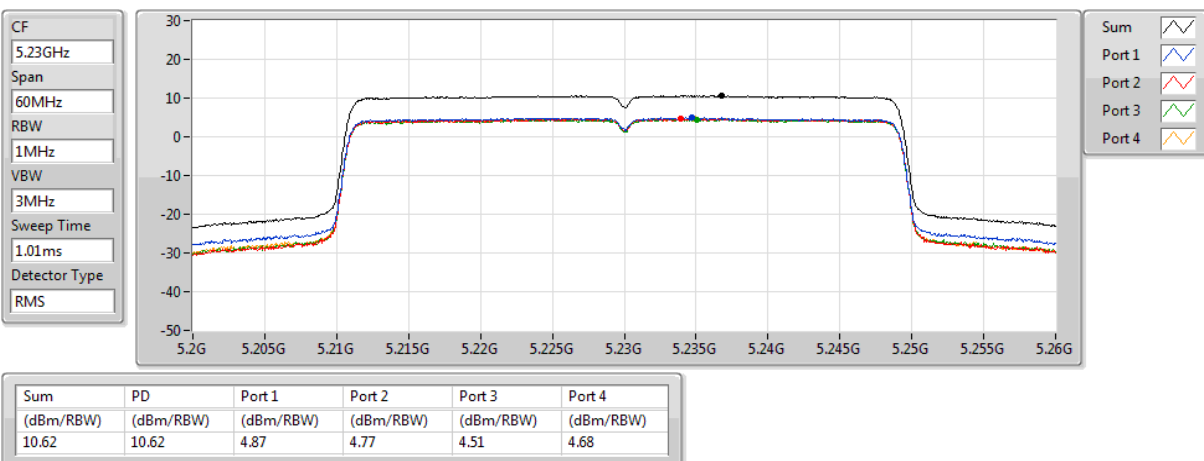
5190MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

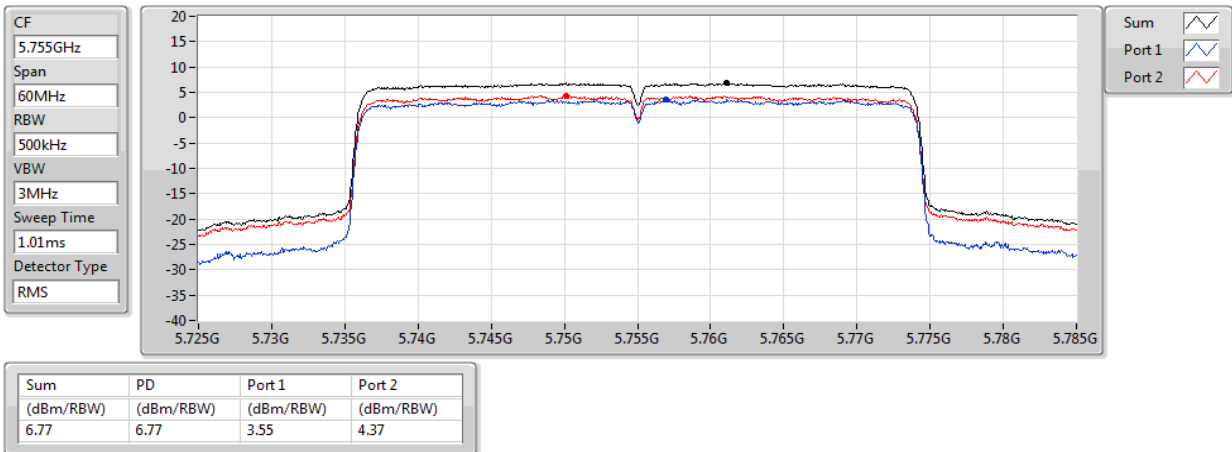
5230MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

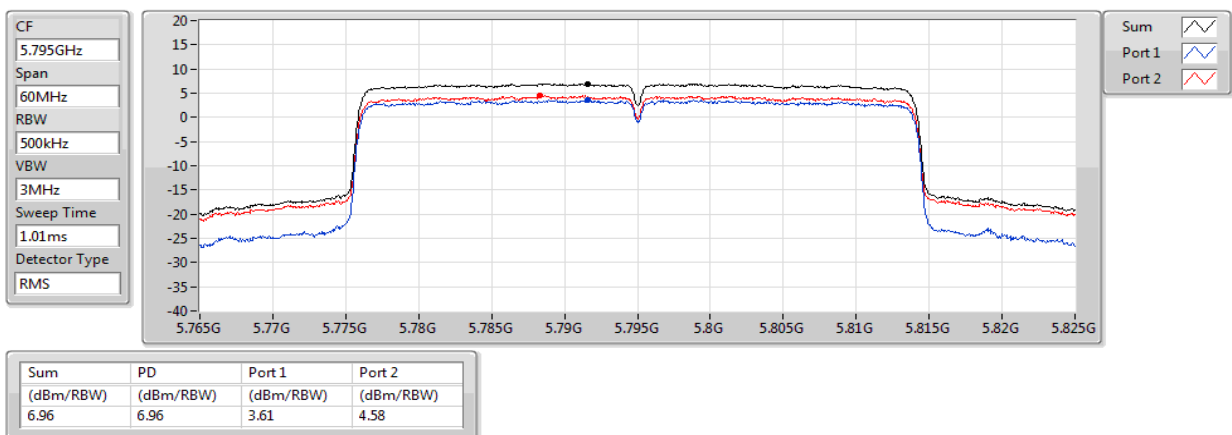
5755MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

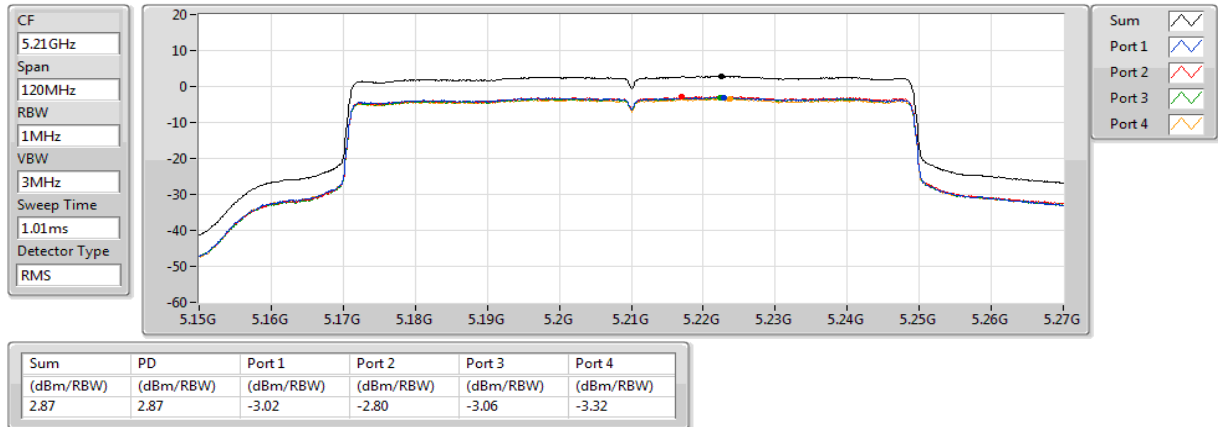
5795MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

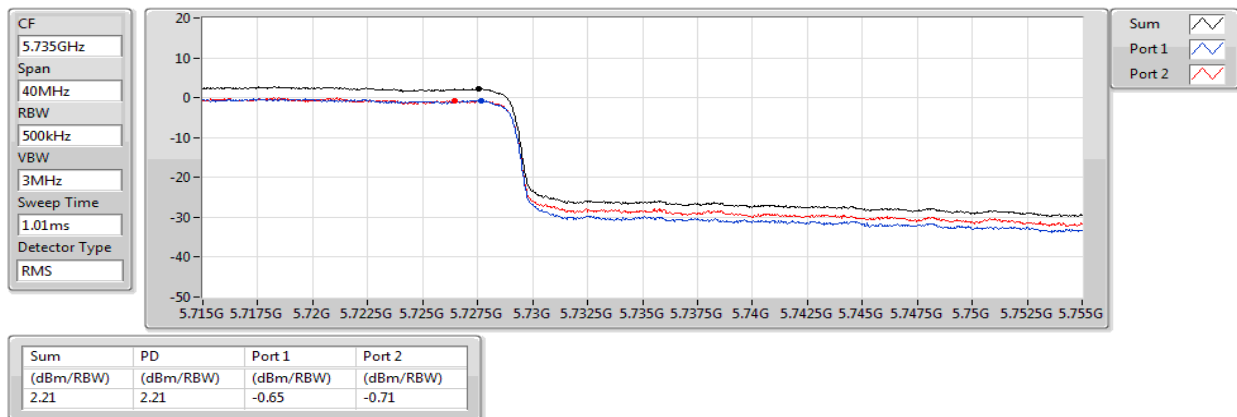
5210MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

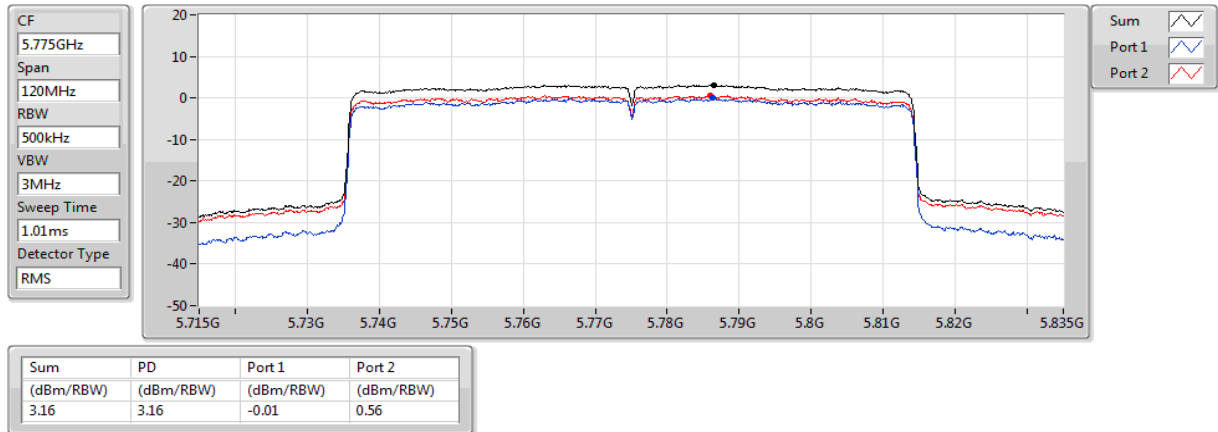
5690MHz Straddle 5.725-5.85GHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz



Beamforming mode

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX-OFDMA	13.24	22.39
802.11ax HEW40-BF_Nss1,(MCS0)_4TX-OFDMA	10.21	19.36
802.11ax HEW80-BF_Nss1,(MCS0)_4TX-OFDMA	2.80	11.95
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX-OFDMA	10.56	16.62
802.11ax HEW40-BF_Nss1,(MCS0)_2TX-OFDMA	7.84	13.90
802.11ax HEW80-BF_Nss1,(MCS0)_2TX-OFDMA	3.85	9.91

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)
802.11ax HEW20-BF_Nss1,(MCS0) _4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.15	4.37	4.46	4.23	4.38	10.17	13.85	19.32	23.00
5200MHz	Pass	9.15	7.40	7.32	7.20	7.55	13.14	13.85	22.29	23.00
5240MHz	Pass	9.15	7.37	7.54	7.28	7.50	13.24	13.85	22.39	23.00
802.11ax HEW20-BF_Nss1,(MCS0) _2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	6.06	7.34	7.90			10.45	29.94	16.51	36.00
5785MHz	Pass	6.06	7.23	7.79			10.47	29.94	16.53	36.00
5825MHz	Pass	6.06	7.07	8.26			10.56	29.94	16.62	36.00
802.11ax HEW40-BF_Nss1,(MCS0) _4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.15	-1.20	-1.17	-1.52	-1.76	4.44	13.85	13.59	23.00
5230MHz	Pass	9.15	4.61	4.31	4.26	4.33	10.21	13.85	19.36	23.00
802.11ax HEW40-BF_Nss1,(MCS0) _2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	6.06	4.58	5.38			7.84	29.94	13.90	36.00
5795MHz	Pass	6.06	4.17	5.08			7.54	29.94	13.60	36.00
802.11ax HEW80-BF_Nss1,(MCS0) _4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	9.15	-2.99	-3.14	-2.97	-3.18	2.80	13.85	11.95	23.00
802.11ax HEW80-BF_Nss1,(MCS0) _2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	6.06	0.57	1.37			3.85	29.94	9.91	36.00

DG = Directional Gain; 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;

Note:

For 5150~5250MHz:

Directional gain = $10 \times \log((10^{3.35/20} + 10^{2.19/20} + 10^{2.62/20} + 10^{4.23/20})^4 / 4) = 9.15 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to 17 dBm – (9.15 dBi – 6 dBi) = 13.85 dBm.

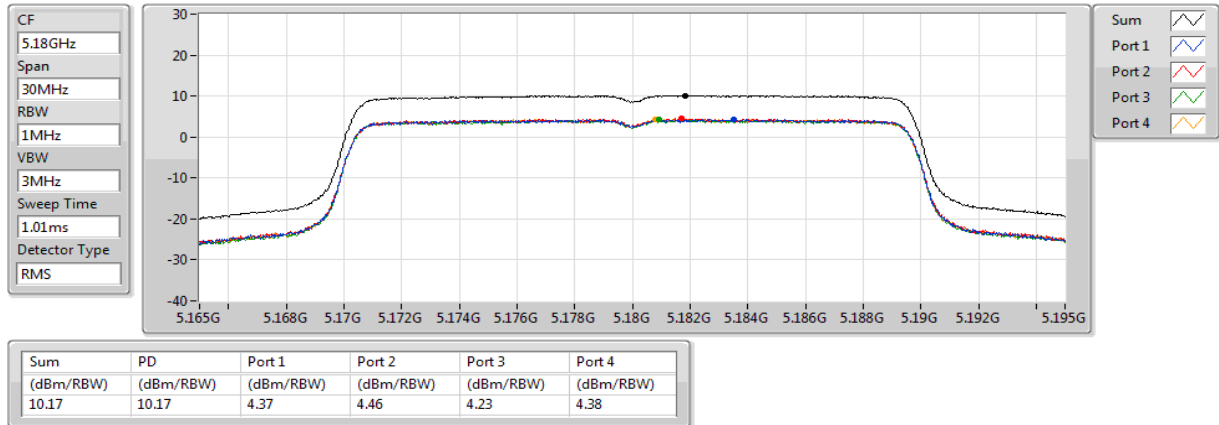
For 5725~5850MHz:

Directional gain = $10 \times \log((10^{2.16/20} + 10^{3.85/20})^2 / 2) = 6.06 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to 30 dBm – (6.06 dBi – 6 dBi) = 29.94 dBm.

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

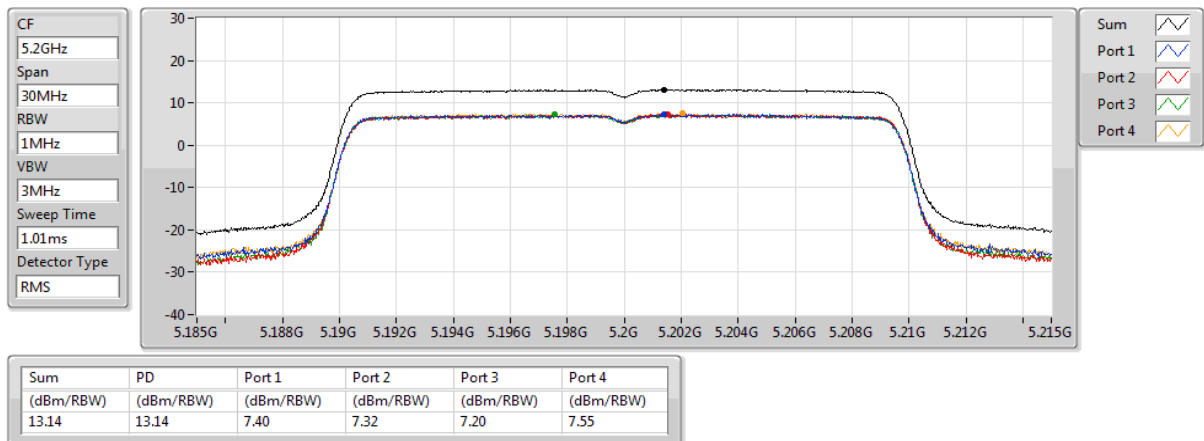
5180MHz



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

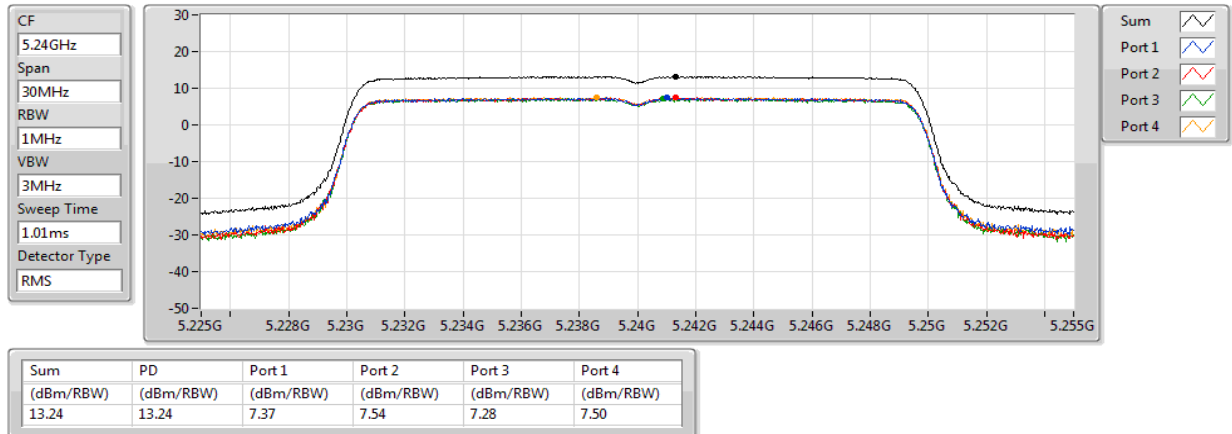
5200MHz



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

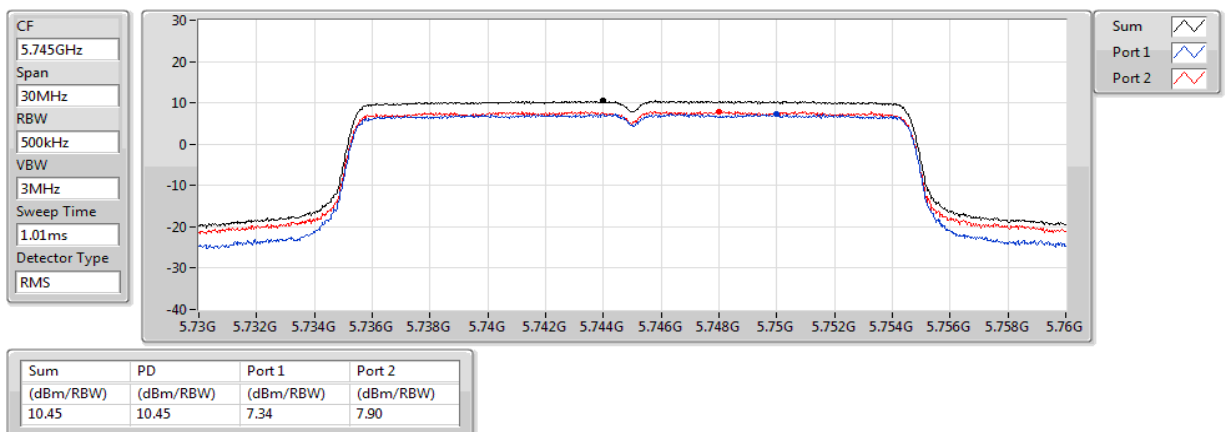
5240MHz



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

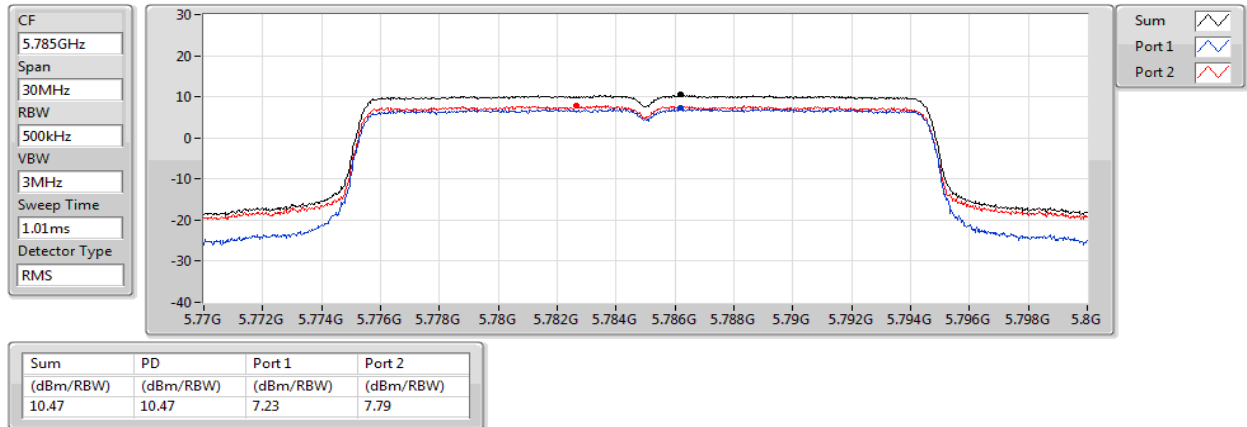
5745MHz



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

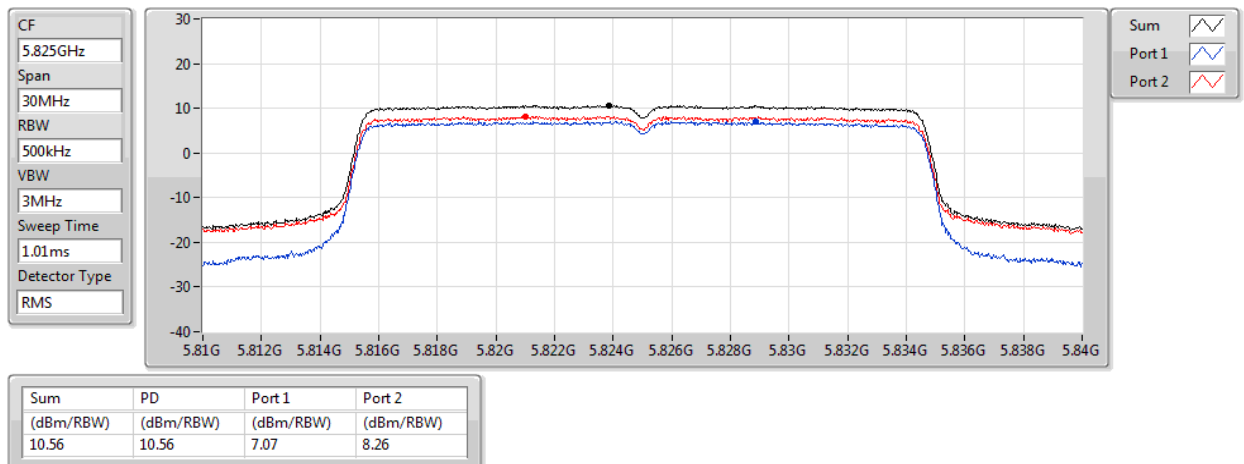
5785MHz



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

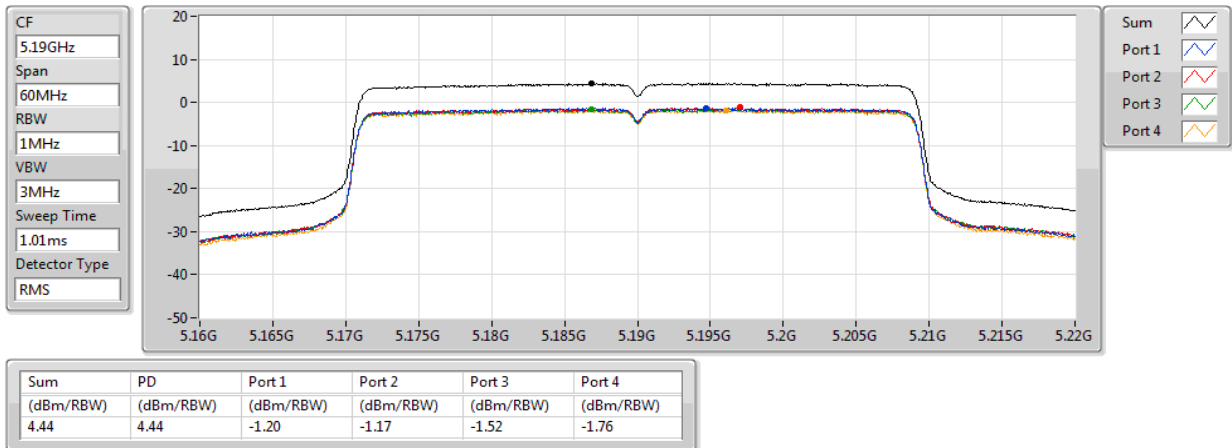
5825MHz



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

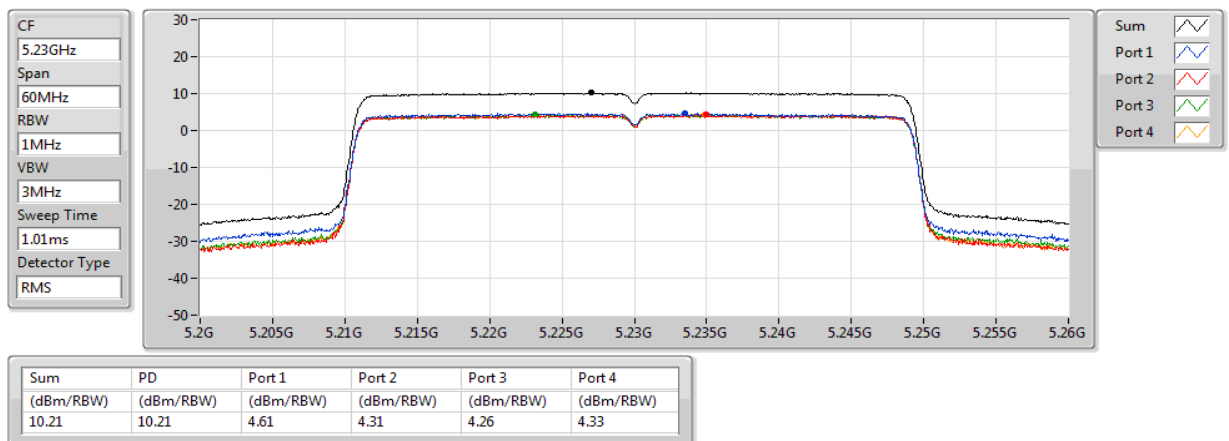
5190MHz



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

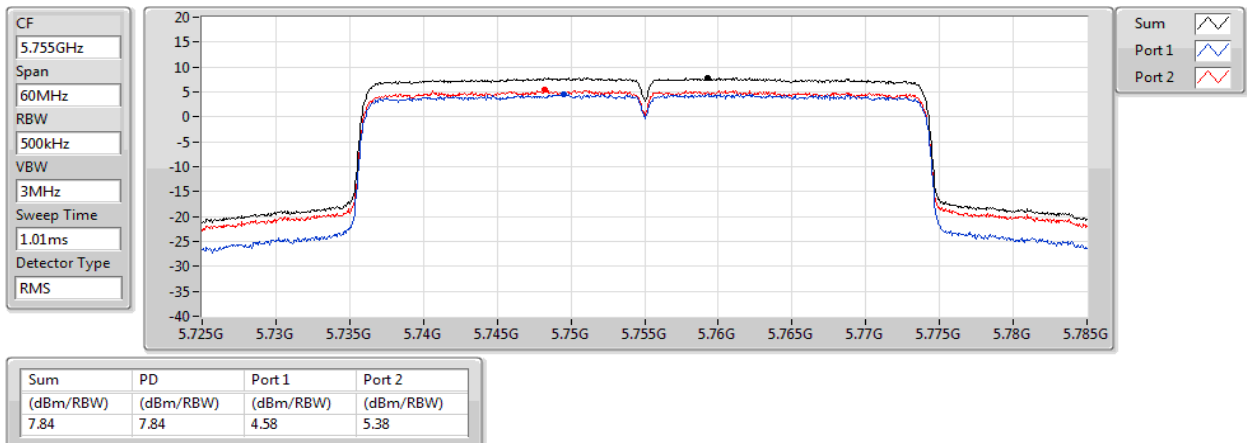
5230MHz



802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

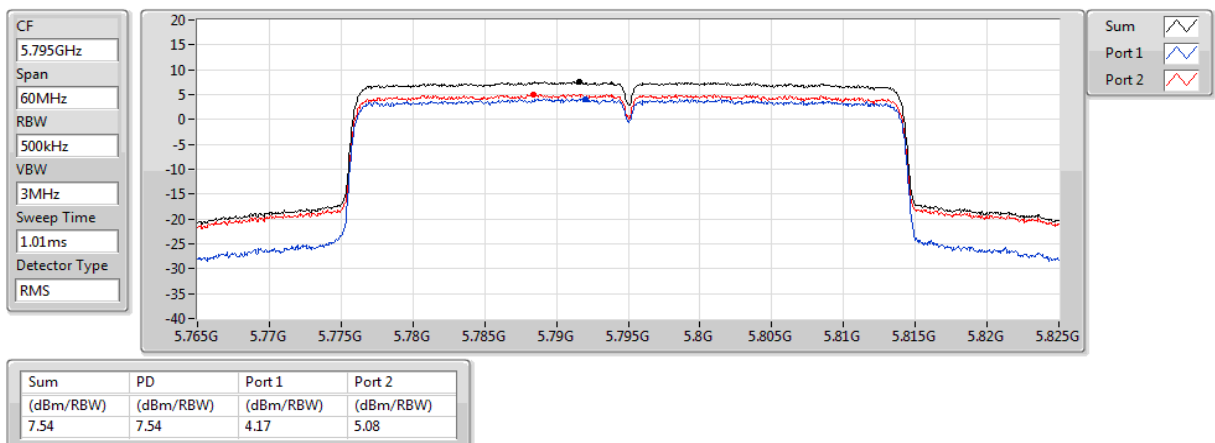
5755MHz



802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

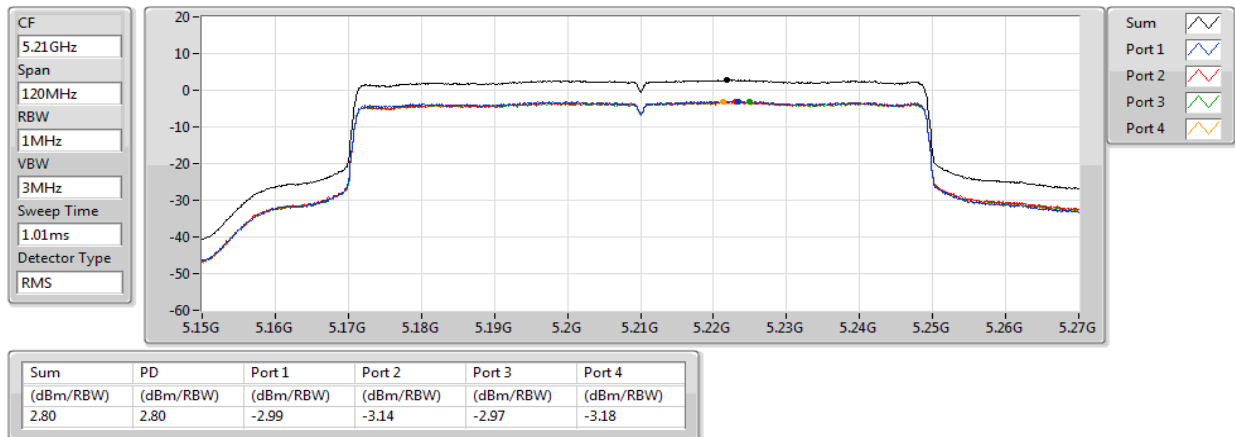
5795MHz



802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

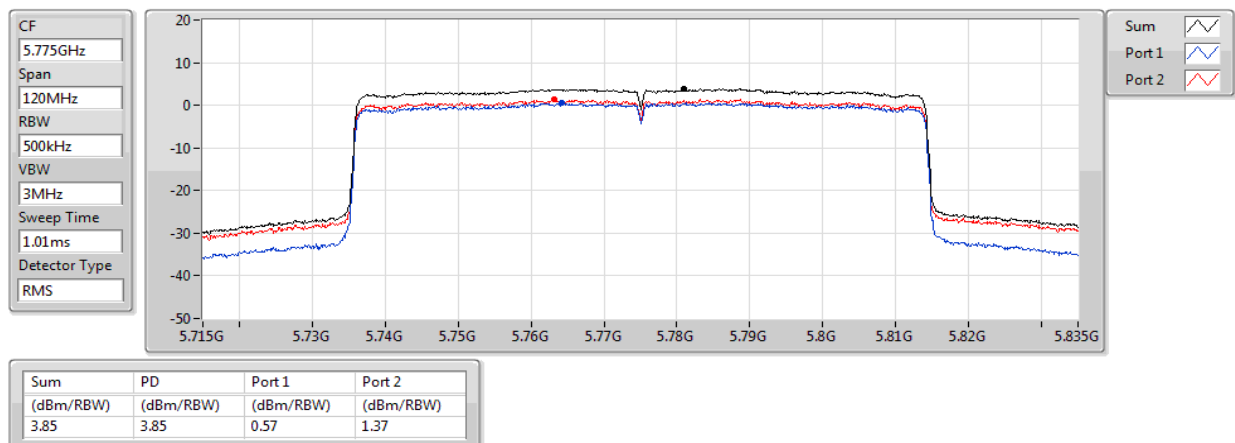
5210MHz



802.11ax HEW80-BF_Nss1,(MCS0)_2TX

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

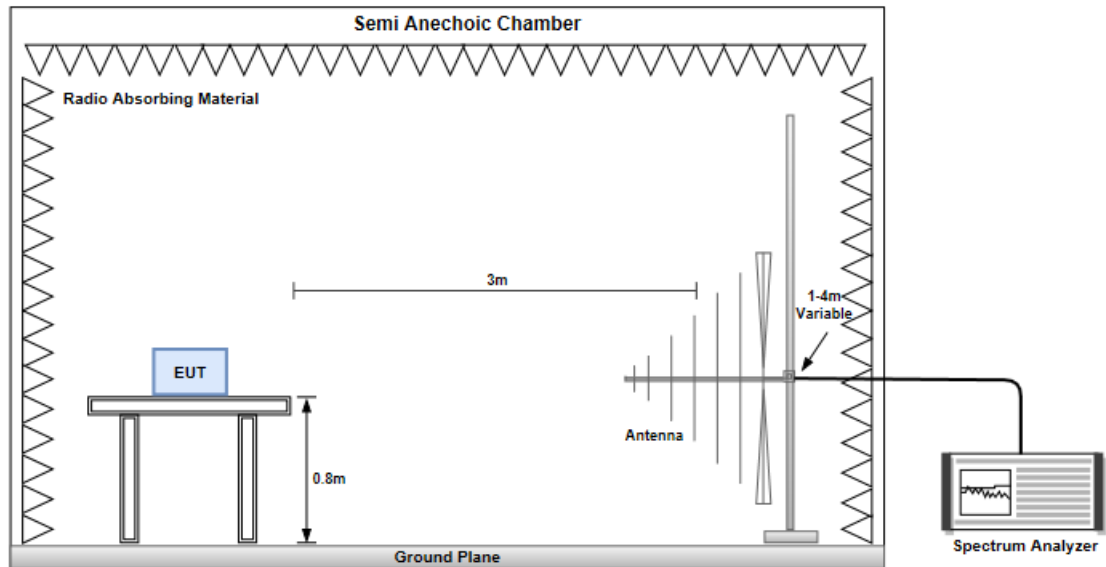
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

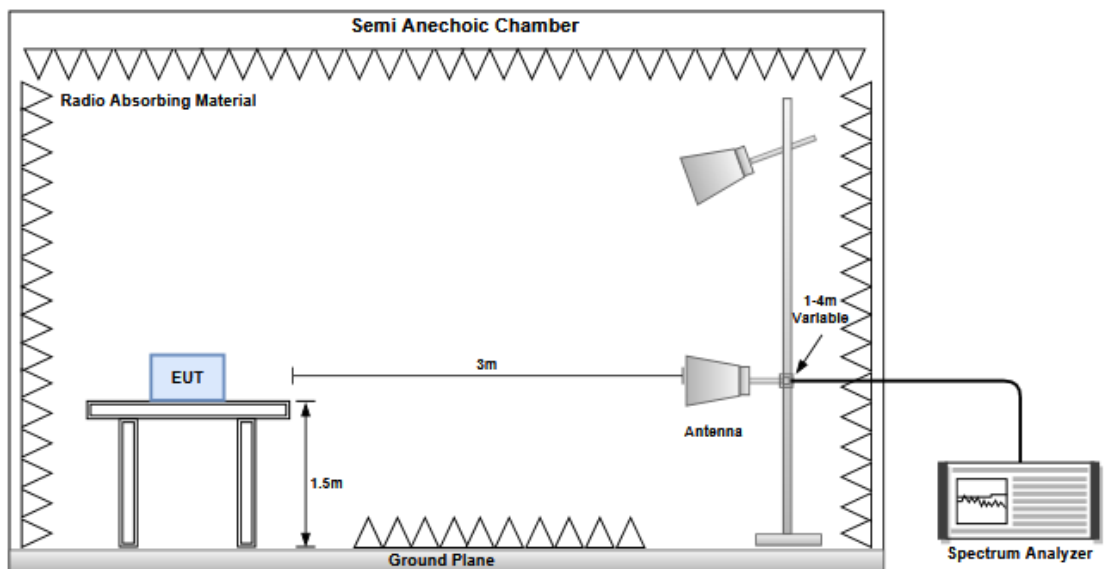
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



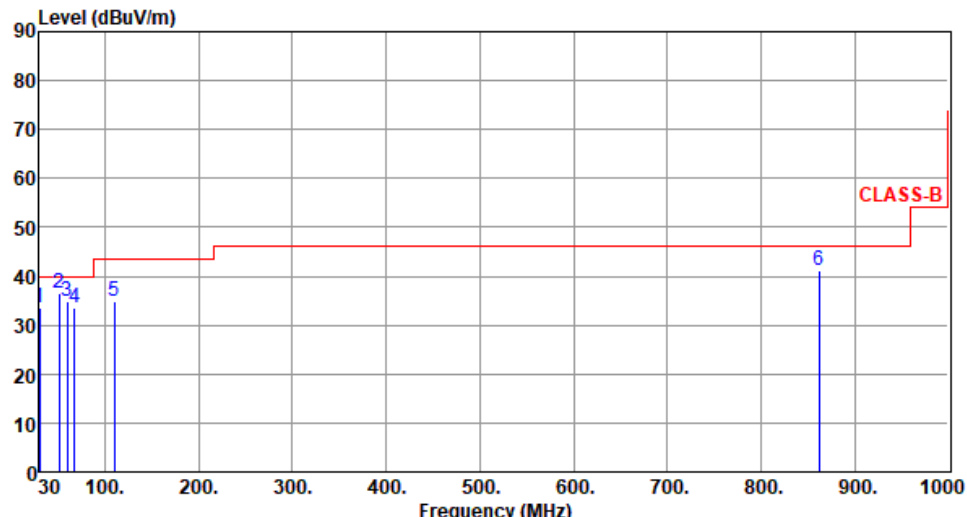
Radiated Emissions above 1 GHz



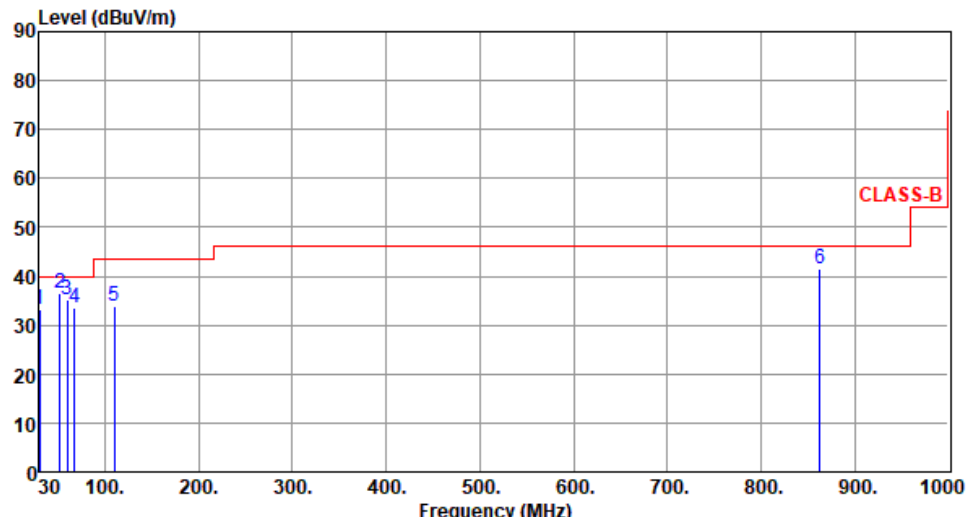
Non-beamforming mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65			
Level (dBuV/m)			

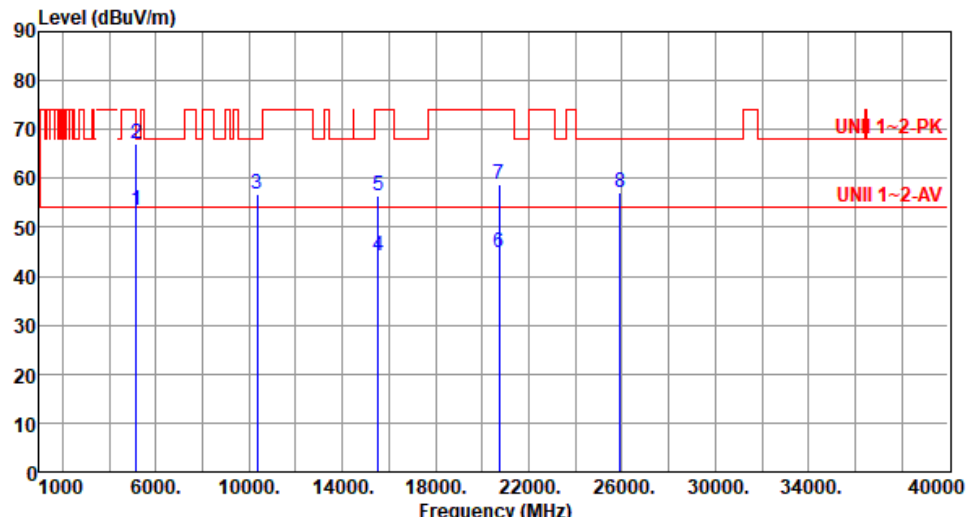
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																									
Level (dBuV/m)  <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>30.26</td><td>33.56</td><td>40.00</td><td>-6.44</td><td>43.50</td><td>-9.94</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>51.15</td><td>36.55</td><td>40.00</td><td>-3.45</td><td>45.34</td><td>-8.79</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>59.36</td><td>34.81</td><td>40.00</td><td>-5.19</td><td>44.11</td><td>-9.30</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>67.26</td><td>33.58</td><td>40.00</td><td>-6.42</td><td>43.86</td><td>-10.28</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>110.26</td><td>34.85</td><td>43.50</td><td>-8.65</td><td>46.55</td><td>-11.70</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>861.59</td><td>41.12</td><td>46.00</td><td>-4.88</td><td>38.25</td><td>2.87</td><td>Peak</td><td>---</td><td>---</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	30.26	33.56	40.00	-6.44	43.50	-9.94	Peak	---	---	2	51.15	36.55	40.00	-3.45	45.34	-8.79	Peak	---	---	3	59.36	34.81	40.00	-5.19	44.11	-9.30	Peak	---	---	4	67.26	33.58	40.00	-6.42	43.86	-10.28	Peak	---	---	5	110.26	34.85	43.50	-8.65	46.55	-11.70	Peak	---	---	6	861.59	41.12	46.00	-4.88	38.25	2.87	Peak	---	---
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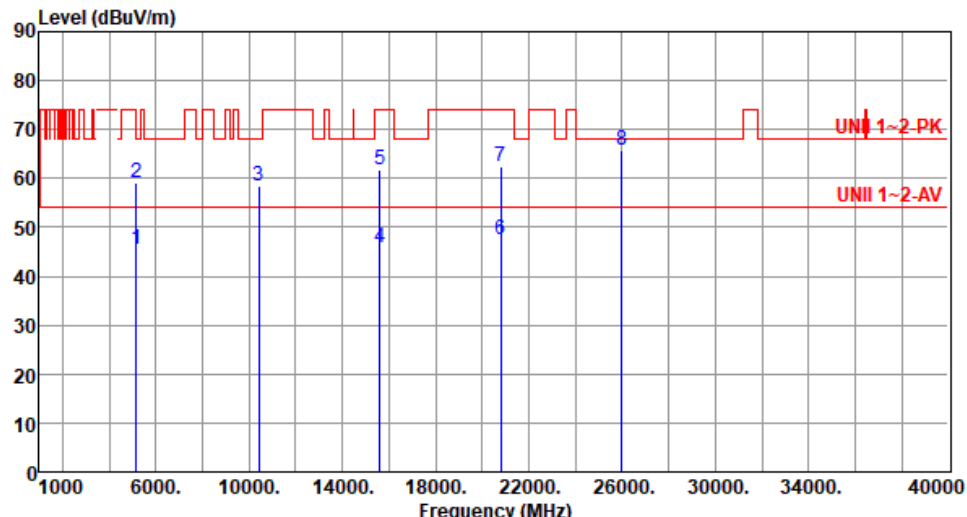
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65			
Level (dBuV/m)			

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																													
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>30.39</td><td>33.28</td><td>40.00</td><td>-6.72</td><td>43.22</td><td>-9.94</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>51.56</td><td>36.54</td><td>40.00</td><td>-3.46</td><td>45.32</td><td>-8.78</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>59.58</td><td>35.16</td><td>40.00</td><td>-4.84</td><td>44.40</td><td>-9.24</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>67.15</td><td>33.58</td><td>40.00</td><td>-6.42</td><td>43.88</td><td>-10.30</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>109.81</td><td>33.94</td><td>43.50</td><td>-9.56</td><td>45.69</td><td>-11.75</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>862.38</td><td>41.54</td><td>46.00</td><td>-4.46</td><td>38.66</td><td>2.88</td><td>Peak</td><td>---</td><td>---</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	30.39	33.28	40.00	-6.72	43.22	-9.94	Peak	---	---	2	51.56	36.54	40.00	-3.46	45.32	-8.78	Peak	---	---	3	59.58	35.16	40.00	-4.84	44.40	-9.24	Peak	---	---	4	67.15	33.58	40.00	-6.42	43.88	-10.30	Peak	---	---	5	109.81	33.94	43.50	-9.56	45.69	-11.75	Peak	---	---	6	862.38	41.54	46.00	-4.46	38.66	2.88	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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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):22 Humidity(%):65																																																																																													
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>47.23</td><td>54.00</td><td>-6.77</td><td>42.22</td><td>5.01</td><td>Average</td><td>185</td><td>265</td></tr><tr><td>2</td><td>5150.00</td><td>61.61</td><td>74.00</td><td>-12.39</td><td>56.60</td><td>5.01</td><td>Peak</td><td>185</td><td>265</td></tr><tr><td>3</td><td>10360.00</td><td>56.99</td><td>68.20</td><td>-11.21</td><td>42.78</td><td>14.21</td><td>Peak</td><td>205</td><td>275</td></tr><tr><td>4</td><td>15540.00</td><td>45.52</td><td>54.00</td><td>-8.48</td><td>31.88</td><td>13.64</td><td>Average</td><td>223</td><td>221</td></tr><tr><td>5</td><td>15540.00</td><td>59.52</td><td>74.00</td><td>-14.48</td><td>45.88</td><td>13.64</td><td>Peak</td><td>223</td><td>221</td></tr><tr><td>6</td><td>20720.00</td><td>45.70</td><td>54.00</td><td>-8.30</td><td>40.53</td><td>5.17</td><td>Average</td><td>189</td><td>265</td></tr><tr><td>7</td><td>20720.00</td><td>59.86</td><td>74.00</td><td>-14.14</td><td>54.69</td><td>5.17</td><td>Peak</td><td>189</td><td>265</td></tr><tr><td>8</td><td>25900.00</td><td>62.27</td><td>68.20</td><td>-5.93</td><td>51.53</td><td>10.74</td><td>Peak</td><td>152</td><td>265</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	47.23	54.00	-6.77	42.22	5.01	Average	185	265	2	5150.00	61.61	74.00	-12.39	56.60	5.01	Peak	185	265	3	10360.00	56.99	68.20	-11.21	42.78	14.21	Peak	205	275	4	15540.00	45.52	54.00	-8.48	31.88	13.64	Average	223	221	5	15540.00	59.52	74.00	-14.48	45.88	13.64	Peak	223	221	6	20720.00	45.70	54.00	-8.30	40.53	5.17	Average	189	265	7	20720.00	59.86	74.00	-14.14	54.69	5.17	Peak	189	265	8	25900.00	62.27	68.20	-5.93	51.53	10.74	Peak	152	265
	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	47.23	54.00	-6.77	42.22	5.01	Average	185	265																																																																																				
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Modulation	11a	Test Freq. (MHz)	5180																																																																																										
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Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																													
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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	11a	Test Freq. (MHz)	5200						
Polarization	Horizontal								
Test By :Roger Lu Temperature(°C):22 Humidity(%):65									
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	5150.00	45.61	54.00	-8.39	40.60	5.01	Average	185	265
2	5150.00	59.28	74.00	-14.72	54.27	5.01	Peak	185	265
3	10400.00	58.32	68.20	-9.88	43.99	14.33	Peak	216	274
4	15600.00	45.90	54.00	-8.10	32.57	13.33	Average	218	228
5	15600.00	61.64	74.00	-12.36	48.31	13.33	Peak	218	228
6	20800.00	47.61	54.00	-6.39	42.37	5.24	Average	180	265
7	20800.00	62.34	74.00	-11.66	57.10	5.24	Peak	180	265
8	26000.00	65.87	68.20	-2.33	54.96	10.91	Peak	124	265

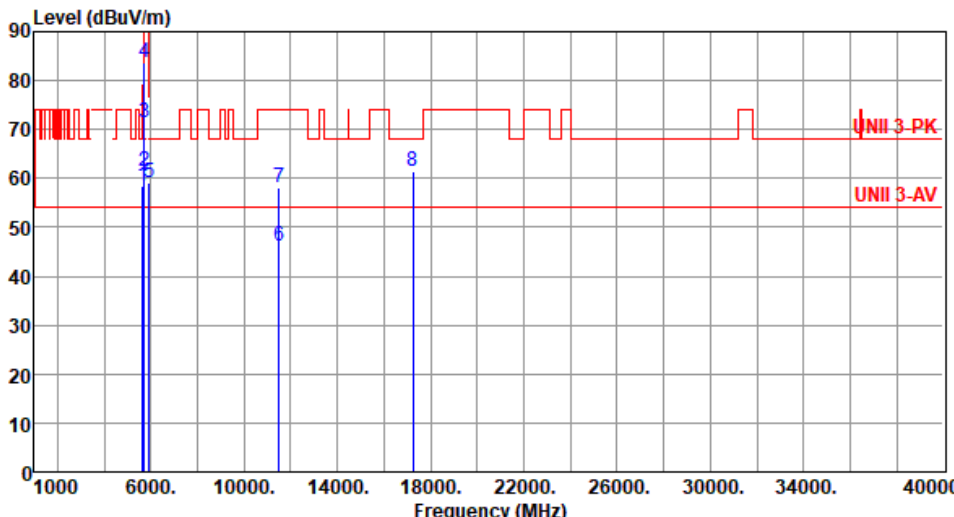
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

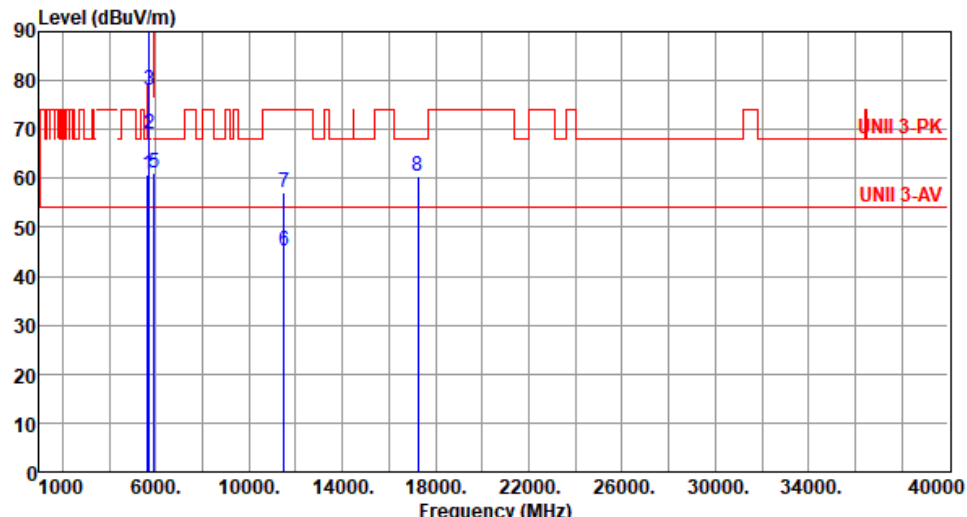
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):22 Humidity(%):65			
Level (dBuV/m)			

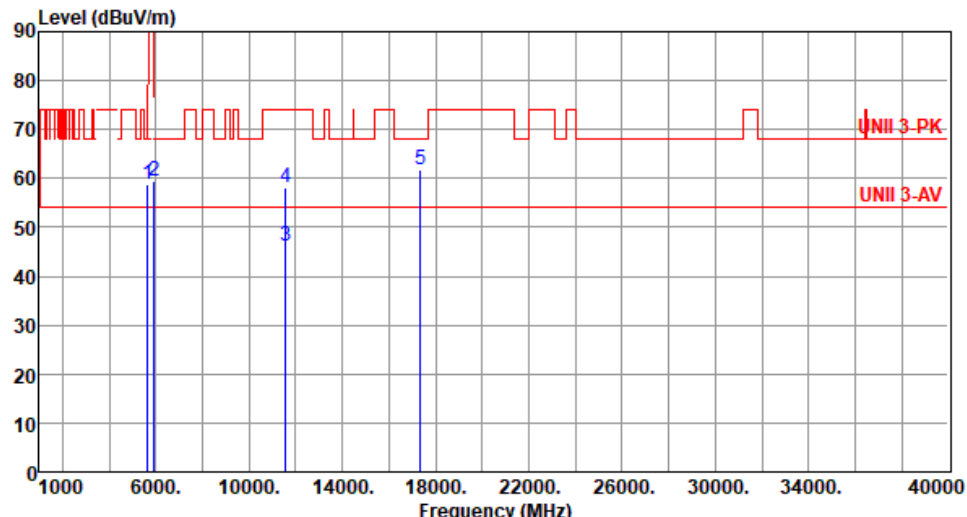
Modulation	11a	Test Freq. (MHz)	5240						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):22 Humidity(%):65									
Level (dBuV/m) Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.61	54.00	-8.39	40.60	5.01	Average	185	266
2	5150.00	59.07	74.00	-14.93	54.06	5.01	Peak	185	266
3	5350.00	44.64	54.00	-9.36	40.22	4.42	Average	185	266
4	5350.00	58.20	74.00	-15.80	53.78	4.42	Peak	185	266
5	10480.00	57.43	68.20	-10.77	42.97	14.46	Peak	206	227
6	15720.00	46.42	54.00	-7.58	33.00	13.42	Average	229	233
7	15720.00	63.28	74.00	-10.72	49.86	13.42	Peak	229	233
8	20960.00	47.70	54.00	-6.30	42.22	5.48	Average	175	261
9	20960.00	62.07	74.00	-11.93	56.59	5.48	Peak	175	261
10	26200.00	64.79	68.20	-3.41	53.59	11.20	Peak	132	264

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).

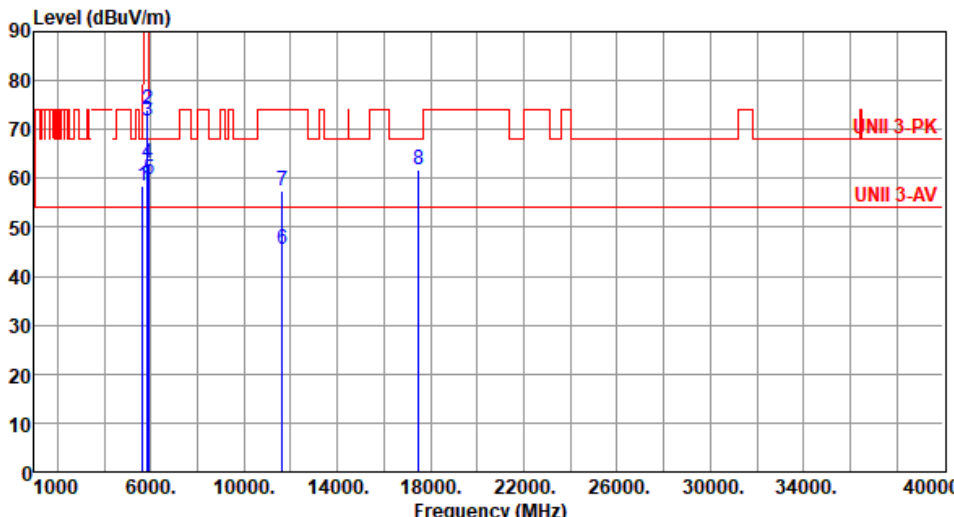
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5745																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																													
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>5650.00</td><td>58.39</td><td>68.20</td><td>-9.81</td><td>53.58</td><td>4.81</td><td>Peak</td><td>162</td><td>105</td></tr><tr><td>2</td><td>5700.00</td><td>61.60</td><td>105.20</td><td>-43.60</td><td>56.58</td><td>5.02</td><td>Peak</td><td>162</td><td>105</td></tr><tr><td>3</td><td>5720.00</td><td>71.30</td><td>110.80</td><td>-39.50</td><td>66.16</td><td>5.14</td><td>Peak</td><td>162</td><td>105</td></tr><tr><td>4</td><td>5725.00</td><td>83.62</td><td>122.20</td><td>-38.58</td><td>78.45</td><td>5.17</td><td>Peak</td><td>162</td><td>105</td></tr><tr><td>5</td><td>5925.00</td><td>59.10</td><td>68.20</td><td>-9.10</td><td>53.49</td><td>5.61</td><td>Peak</td><td>162</td><td>105</td></tr><tr><td>6</td><td>11490.00</td><td>46.27</td><td>54.00</td><td>-7.73</td><td>31.88</td><td>14.39</td><td>Average</td><td>302</td><td>303</td></tr><tr><td>7</td><td>11490.00</td><td>58.24</td><td>74.00</td><td>-15.76</td><td>43.85</td><td>14.39</td><td>Peak</td><td>302</td><td>303</td></tr><tr><td>8</td><td>17235.00</td><td>61.41</td><td>68.20</td><td>-6.79</td><td>43.95</td><td>17.46</td><td>Peak</td><td>100</td><td>307</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	5650.00	58.39	68.20	-9.81	53.58	4.81	Peak	162	105	2	5700.00	61.60	105.20	-43.60	56.58	5.02	Peak	162	105	3	5720.00	71.30	110.80	-39.50	66.16	5.14	Peak	162	105	4	5725.00	83.62	122.20	-38.58	78.45	5.17	Peak	162	105	5	5925.00	59.10	68.20	-9.10	53.49	5.61	Peak	162	105	6	11490.00	46.27	54.00	-7.73	31.88	14.39	Average	302	303	7	11490.00	58.24	74.00	-15.76	43.85	14.39	Peak	302	303	8	17235.00	61.41	68.20	-6.79	43.95	17.46	Peak	100	307
	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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2	5700.00	61.60	105.20	-43.60	56.58	5.02	Peak	162	105																																																																																				
3	5720.00	71.30	110.80	-39.50	66.16	5.14	Peak	162	105																																																																																				
4	5725.00	83.62	122.20	-38.58	78.45	5.17	Peak	162	105																																																																																				
5	5925.00	59.10	68.20	-9.10	53.49	5.61	Peak	162	105																																																																																				
6	11490.00	46.27	54.00	-7.73	31.88	14.39	Average	302	303																																																																																				
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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	11a	Test Freq. (MHz)	5745																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																													
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>60.68</td><td>68.20</td><td>-7.52</td><td>55.87</td><td>4.81</td><td>Peak</td><td>176</td><td>309</td></tr><tr><td>2</td><td>5700.00</td><td>68.97</td><td>105.20</td><td>-36.23</td><td>63.95</td><td>5.02</td><td>Peak</td><td>176</td><td>309</td></tr><tr><td>3</td><td>5720.00</td><td>78.14</td><td>110.80</td><td>-32.66</td><td>73.00</td><td>5.14</td><td>Peak</td><td>176</td><td>309</td></tr><tr><td>4</td><td>5725.00</td><td>92.13</td><td>122.20</td><td>-30.07</td><td>86.96</td><td>5.17</td><td>Peak</td><td>176</td><td>309</td></tr><tr><td>5</td><td>5925.00</td><td>61.11</td><td>68.20</td><td>-7.09</td><td>55.50</td><td>5.61</td><td>Peak</td><td>176</td><td>309</td></tr><tr><td>6</td><td>11490.00</td><td>45.07</td><td>54.00</td><td>-8.93</td><td>30.68</td><td>14.39</td><td>Average</td><td>100</td><td>59</td></tr><tr><td>7</td><td>11490.00</td><td>56.97</td><td>74.00</td><td>-17.03</td><td>42.58</td><td>14.39</td><td>Peak</td><td>100</td><td>59</td></tr><tr><td>8</td><td>17235.00</td><td>60.33</td><td>68.20</td><td>-7.87</td><td>42.87</td><td>17.46</td><td>Peak</td><td>100</td><td>61</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	5650.00	60.68	68.20	-7.52	55.87	4.81	Peak	176	309	2	5700.00	68.97	105.20	-36.23	63.95	5.02	Peak	176	309	3	5720.00	78.14	110.80	-32.66	73.00	5.14	Peak	176	309	4	5725.00	92.13	122.20	-30.07	86.96	5.17	Peak	176	309	5	5925.00	61.11	68.20	-7.09	55.50	5.61	Peak	176	309	6	11490.00	45.07	54.00	-8.93	30.68	14.39	Average	100	59	7	11490.00	56.97	74.00	-17.03	42.58	14.39	Peak	100	59	8	17235.00	60.33	68.20	-7.87	42.87	17.46	Peak	100	61
	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	11a	Test Freq. (MHz)	5785																																																												
Polarization	Horizontal																																																														
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																															
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>58.74</td><td>68.20</td><td>-9.46</td><td>53.93</td><td>4.81</td><td>Peak</td><td>162</td><td>108</td></tr><tr><td>2</td><td>5925.00</td><td>59.59</td><td>68.20</td><td>-8.61</td><td>53.98</td><td>5.61</td><td>Peak</td><td>162</td><td>108</td></tr><tr><td>3</td><td>11570.00</td><td>46.20</td><td>54.00</td><td>-7.80</td><td>31.95</td><td>14.25</td><td>Average</td><td>306</td><td>302</td></tr><tr><td>4</td><td>11570.00</td><td>58.20</td><td>74.00</td><td>-15.80</td><td>43.95</td><td>14.25</td><td>Peak</td><td>306</td><td>302</td></tr><tr><td>5</td><td>17355.00</td><td>61.80</td><td>68.20</td><td>-6.40</td><td>43.89</td><td>17.91</td><td>Peak</td><td>100</td><td>309</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	58.74	68.20	-9.46	53.93	4.81	Peak	162	108	2	5925.00	59.59	68.20	-8.61	53.98	5.61	Peak	162	108	3	11570.00	46.20	54.00	-7.80	31.95	14.25	Average	306	302	4	11570.00	58.20	74.00	-15.80	43.95	14.25	Peak	306	302	5	17355.00	61.80	68.20	-6.40	43.89	17.91	Peak	100	309
	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	58.74	68.20	-9.46	53.93	4.81	Peak	162	108																																																						
2	5925.00	59.59	68.20	-8.61	53.98	5.61	Peak	162	108																																																						
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5	17355.00	61.80	68.20	-6.40	43.89	17.91	Peak	100	309																																																						
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Modulation	11a	Test Freq. (MHz)	5785																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																			
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>5650.00</td><td>59.65</td><td>68.20</td><td>-8.55</td><td>54.84</td><td>4.81</td><td>Peak</td><td>180</td><td>305</td></tr><tr><td>2</td><td>5925.00</td><td>60.36</td><td>68.20</td><td>-7.84</td><td>54.75</td><td>5.61</td><td>Peak</td><td>180</td><td>305</td></tr><tr><td>3</td><td>11570.00</td><td>44.80</td><td>54.00</td><td>-9.20</td><td>30.55</td><td>14.25</td><td>Average</td><td>100</td><td>55</td></tr><tr><td>4</td><td>11570.00</td><td>56.85</td><td>74.00</td><td>-17.15</td><td>42.60</td><td>14.25</td><td>Peak</td><td>100</td><td>55</td></tr><tr><td>5</td><td>17355.00</td><td>60.57</td><td>68.20</td><td>-7.63</td><td>42.66</td><td>17.91</td><td>Peak</td><td>100</td><td>59</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	5650.00	59.65	68.20	-8.55	54.84	4.81	Peak	180	305	2	5925.00	60.36	68.20	-7.84	54.75	5.61	Peak	180	305	3	11570.00	44.80	54.00	-9.20	30.55	14.25	Average	100	55	4	11570.00	56.85	74.00	-17.15	42.60	14.25	Peak	100	55	5	17355.00	60.57	68.20	-7.63	42.66	17.91	Peak	100	59
	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	5650.00	59.65	68.20	-8.55	54.84	4.81	Peak	180	305																																																																										
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4	11570.00	56.85	74.00	-17.15	42.60	14.25	Peak	100	55																																																																										
5	17355.00	60.57	68.20	-7.63	42.66	17.91	Peak	100	59																																																																										
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	Horizontal								
Test By :Roger Lu Temperature(°C):22 Humidity(%):65									
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	58.39	68.20	-9.81	53.58	4.81	Peak	162	106
2	5850.00	74.14	122.20	-48.06	68.49	5.65	Peak	162	106
3	5855.00	71.83	110.80	-38.97	66.18	5.65	Peak	162	106
4	5875.00	63.21	105.20	-41.99	57.55	5.66	Peak	162	106
5	5925.00	59.66	68.20	-8.54	54.05	5.61	Peak	162	106
6	11650.00	45.44	54.00	-8.56	31.54	13.90	Average	340	306
7	11650.00	57.32	74.00	-16.68	43.42	13.90	Peak	340	306
8	17475.00	61.65	68.20	-6.55	43.10	18.55	Peak	100	60

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

*Factor includes antenna factor , cable loss and amplifier gain

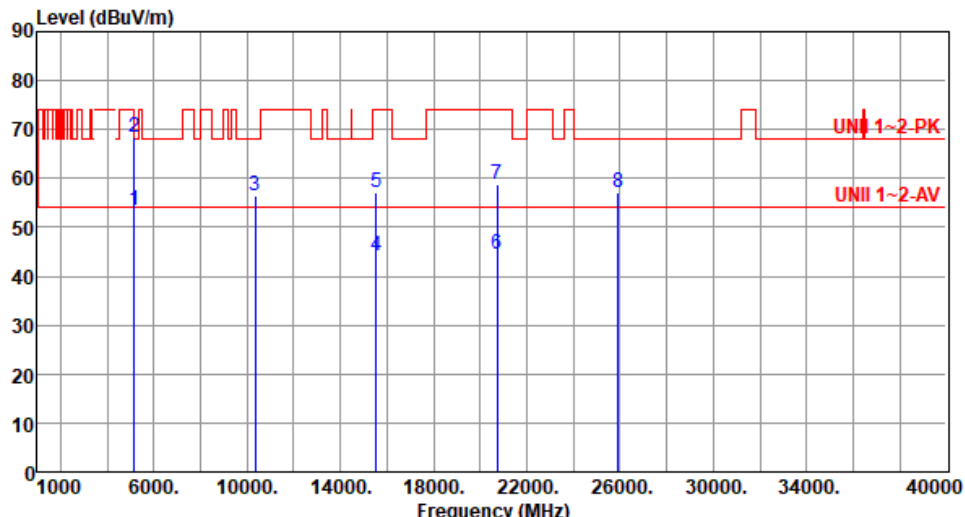
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

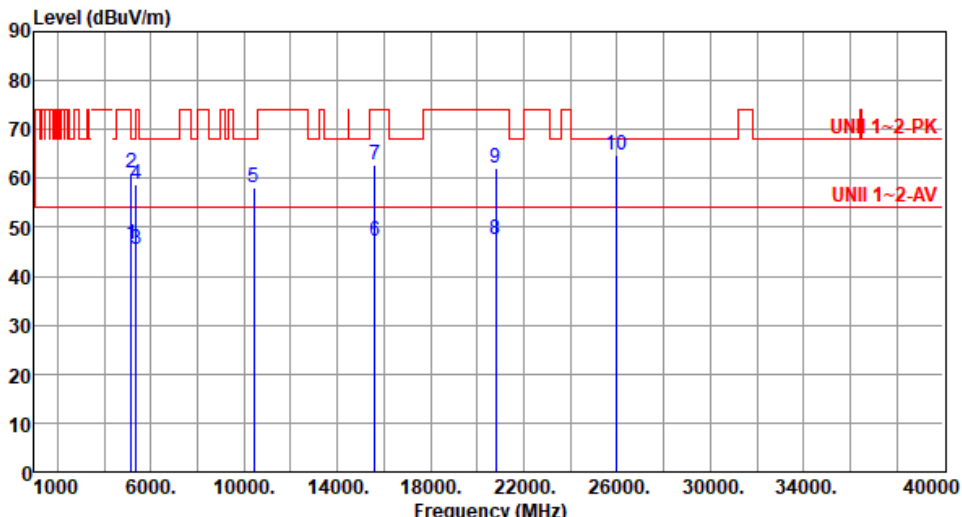
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):22 Humidity(%):65			
Level (dBuV/m) <			

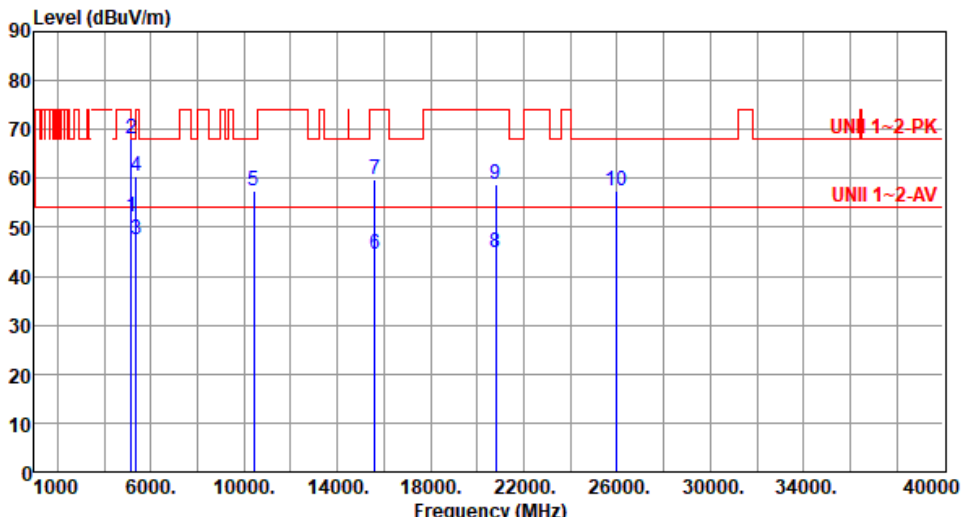
3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE20-OFDMA

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):22 Humidity(%):65									
Level (dBuV/m) Frequency (MHz)									
	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	46.59	54.00	-7.41	41.58	5.01	Average	163	263
2	5150.00	62.48	74.00	-11.52	57.47	5.01	Peak	163	263
3	10360.00	56.48	68.20	-11.72	42.27	14.21	Peak	202	276
4	15540.00	44.90	54.00	-9.10	31.26	13.64	Average	225	226
5	15540.00	58.99	74.00	-15.01	45.35	13.64	Peak	225	226
6	20720.00	45.19	54.00	-8.81	40.02	5.17	Average	188	269
7	20720.00	59.28	74.00	-14.72	54.11	5.17	Peak	188	269
8	25900.00	61.86	68.20	-6.34	51.12	10.74	Peak	155	267

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).

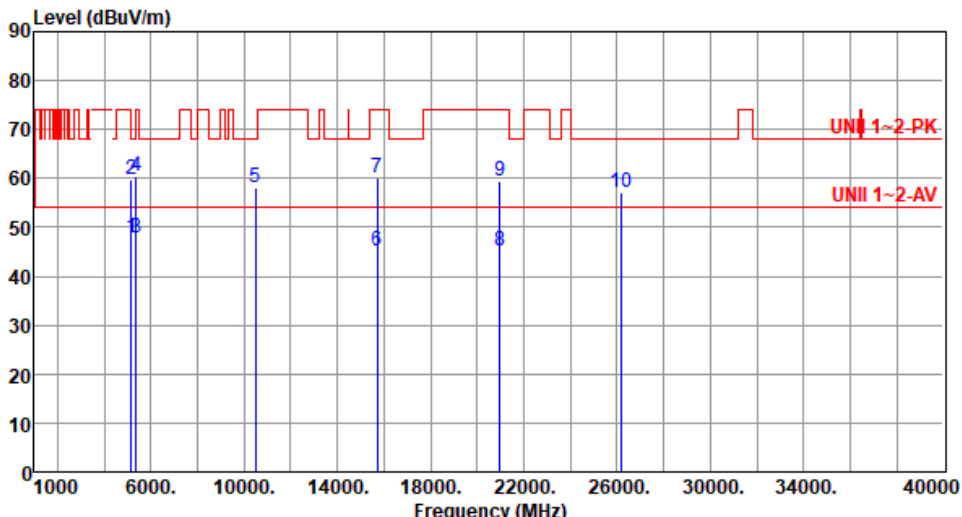
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5180																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																													
Level (dBuV/m)  <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>5150.00</td><td>53.61</td><td>54.00</td><td>-0.39</td><td>48.60</td><td>5.01</td><td>Average</td><td>161</td><td>258</td></tr><tr><td>2</td><td>5150.00</td><td>68.57</td><td>74.00</td><td>-5.43</td><td>63.56</td><td>5.01</td><td>Peak</td><td>161</td><td>258</td></tr><tr><td>3</td><td>10360.00</td><td>56.37</td><td>68.20</td><td>-11.83</td><td>42.16</td><td>14.21</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>4</td><td>15540.00</td><td>44.22</td><td>54.00</td><td>-9.78</td><td>30.58</td><td>13.64</td><td>Average</td><td>100</td><td>242</td></tr><tr><td>5</td><td>15540.00</td><td>57.19</td><td>74.00</td><td>-16.81</td><td>43.55</td><td>13.64</td><td>Peak</td><td>100</td><td>242</td></tr><tr><td>6</td><td>20720.00</td><td>44.62</td><td>54.00</td><td>-9.38</td><td>39.45</td><td>5.17</td><td>Average</td><td>100</td><td>260</td></tr><tr><td>7</td><td>20720.00</td><td>58.62</td><td>74.00</td><td>-15.38</td><td>53.45</td><td>5.17</td><td>Peak</td><td>100</td><td>260</td></tr><tr><td>8</td><td>25900.00</td><td>57.00</td><td>68.20</td><td>-11.20</td><td>46.26</td><td>10.74</td><td>Peak</td><td>100</td><td>255</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	5150.00	53.61	54.00	-0.39	48.60	5.01	Average	161	258	2	5150.00	68.57	74.00	-5.43	63.56	5.01	Peak	161	258	3	10360.00	56.37	68.20	-11.83	42.16	14.21	Peak	100	30	4	15540.00	44.22	54.00	-9.78	30.58	13.64	Average	100	242	5	15540.00	57.19	74.00	-16.81	43.55	13.64	Peak	100	242	6	20720.00	44.62	54.00	-9.38	39.45	5.17	Average	100	260	7	20720.00	58.62	74.00	-15.38	53.45	5.17	Peak	100	260	8	25900.00	57.00	68.20	-11.20	46.26	10.74	Peak	100	255
	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)	5200																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																																																	
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>46.40</td><td>54.00</td><td>-7.60</td><td>41.39</td><td>5.01</td><td>Average</td><td>185</td><td>267</td></tr><tr><td>2</td><td>5150.00</td><td>61.21</td><td>74.00</td><td>-12.79</td><td>56.20</td><td>5.01</td><td>Peak</td><td>185</td><td>267</td></tr><tr><td>3</td><td>5350.00</td><td>45.57</td><td>54.00</td><td>-8.43</td><td>41.15</td><td>4.42</td><td>Average</td><td>185</td><td>267</td></tr><tr><td>4</td><td>5350.00</td><td>58.68</td><td>74.00</td><td>-15.32</td><td>54.26</td><td>4.42</td><td>Peak</td><td>185</td><td>267</td></tr><tr><td>5</td><td>10400.00</td><td>58.21</td><td>68.20</td><td>-9.99</td><td>43.88</td><td>14.33</td><td>Peak</td><td>200</td><td>250</td></tr><tr><td>6</td><td>15600.00</td><td>47.32</td><td>54.00</td><td>-6.68</td><td>33.99</td><td>13.33</td><td>Average</td><td>216</td><td>231</td></tr><tr><td>7</td><td>15600.00</td><td>62.62</td><td>74.00</td><td>-11.38</td><td>49.29</td><td>13.33</td><td>Peak</td><td>216</td><td>231</td></tr><tr><td>8</td><td>20800.00</td><td>47.39</td><td>54.00</td><td>-6.61</td><td>42.15</td><td>5.24</td><td>Average</td><td>175</td><td>263</td></tr><tr><td>9</td><td>20800.00</td><td>62.11</td><td>74.00</td><td>-11.89</td><td>56.87</td><td>5.24</td><td>Peak</td><td>175</td><td>263</td></tr><tr><td>10</td><td>26000.00</td><td>64.86</td><td>68.20</td><td>-3.34</td><td>53.95</td><td>10.91</td><td>Peak</td><td>167</td><td>272</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	46.40	54.00	-7.60	41.39	5.01	Average	185	267	2	5150.00	61.21	74.00	-12.79	56.20	5.01	Peak	185	267	3	5350.00	45.57	54.00	-8.43	41.15	4.42	Average	185	267	4	5350.00	58.68	74.00	-15.32	54.26	4.42	Peak	185	267	5	10400.00	58.21	68.20	-9.99	43.88	14.33	Peak	200	250	6	15600.00	47.32	54.00	-6.68	33.99	13.33	Average	216	231	7	15600.00	62.62	74.00	-11.38	49.29	13.33	Peak	216	231	8	20800.00	47.39	54.00	-6.61	42.15	5.24	Average	175	263	9	20800.00	62.11	74.00	-11.89	56.87	5.24	Peak	175	263	10	26000.00	64.86	68.20	-3.34	53.95	10.91	Peak	167	272
	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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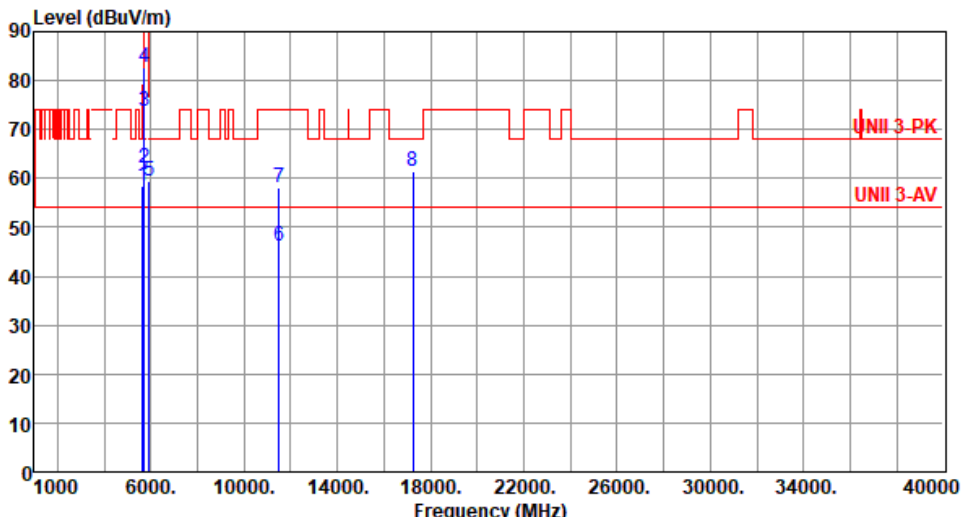
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200						
Polarization	Vertical								
Test By :Akun Chung Temperature(°C):22 Humidity(%):65									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	52.01	54.00	-1.99	47.00	5.01	Average	161	257
2	5150.00	67.97	74.00	-6.03	62.96	5.01	Peak	161	257
3	5350.00	47.53	54.00	-6.47	43.11	4.42	Average	161	257
4	5350.00	60.30	74.00	-13.70	55.88	4.42	Peak	161	257
5	10400.00	57.55	68.20	-10.65	43.22	14.33	Peak	136	235
6	15600.00	44.59	54.00	-9.41	31.26	13.33	Average	135	244
7	15600.00	59.92	74.00	-14.08	46.59	13.33	Peak	135	244
8	20800.00	44.72	54.00	-9.28	39.48	5.24	Average	100	261
9	20800.00	58.73	74.00	-15.27	53.49	5.24	Peak	100	261
10	26000.00	57.49	68.20	-10.71	46.58	10.91	Peak	100	255

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).

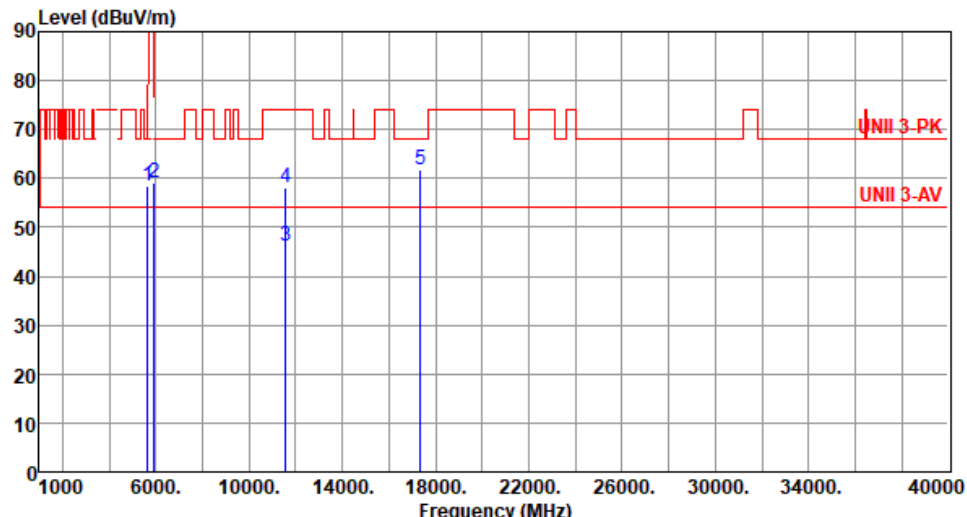
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65			
Level (dBuV/m)			

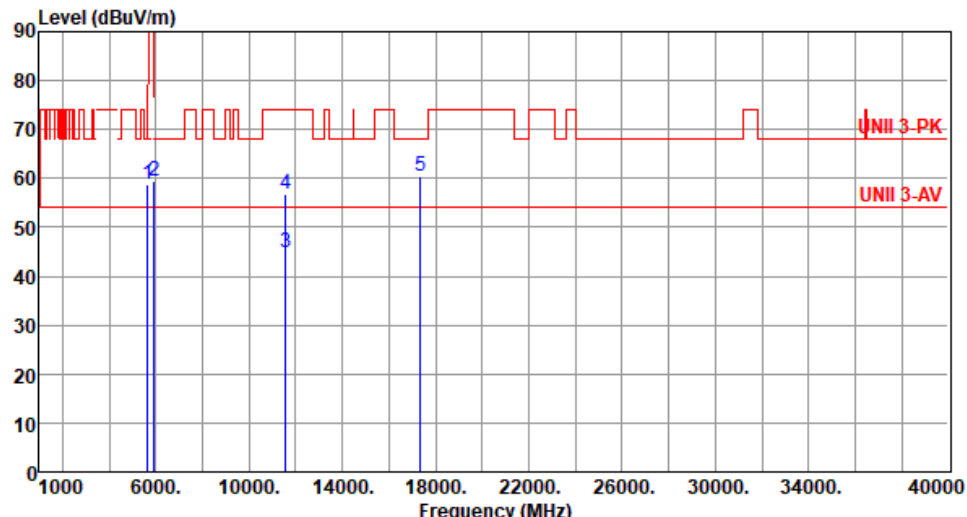
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5240						
Polarization	Vertical								
Test By :Akun Chung Temperature(°C):22 Humidity(%):65									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.98	54.00	-6.02	42.97	5.01	Average	163	260
2	5150.00	59.90	74.00	-14.10	54.89	5.01	Peak	163	260
3	5350.00	47.74	54.00	-6.26	43.32	4.42	Average	163	260
4	5350.00	60.37	74.00	-13.63	55.95	4.42	Peak	163	260
5	10480.00	58.02	68.20	-10.18	43.56	14.46	Peak	136	239
6	15720.00	45.01	54.00	-8.99	31.59	13.42	Average	142	245
7	15720.00	60.02	74.00	-13.98	46.60	13.42	Peak	142	245
8	20960.00	45.15	54.00	-8.85	39.67	5.48	Average	100	266
9	20960.00	59.32	74.00	-14.68	53.84	5.48	Peak	100	266
10	26200.00	57.15	68.20	-11.05	45.95	11.20	Peak	100	255

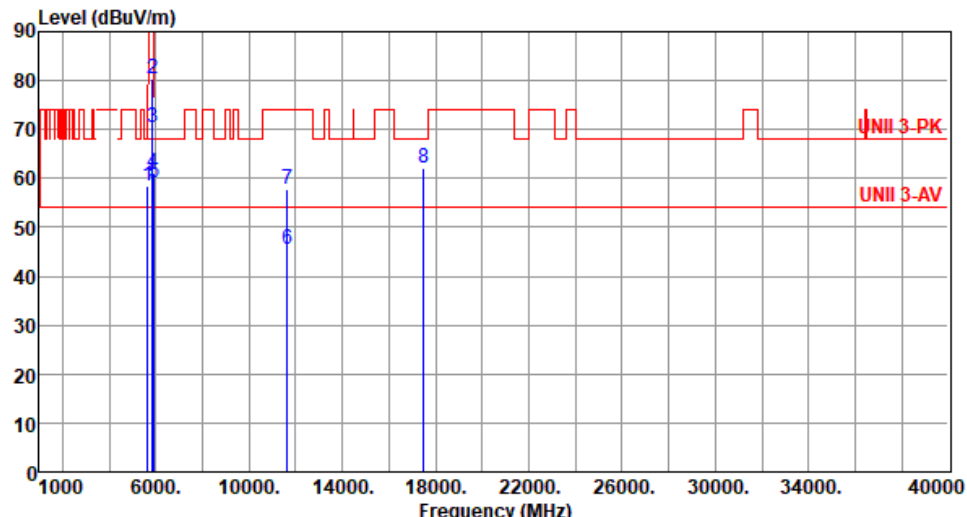
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

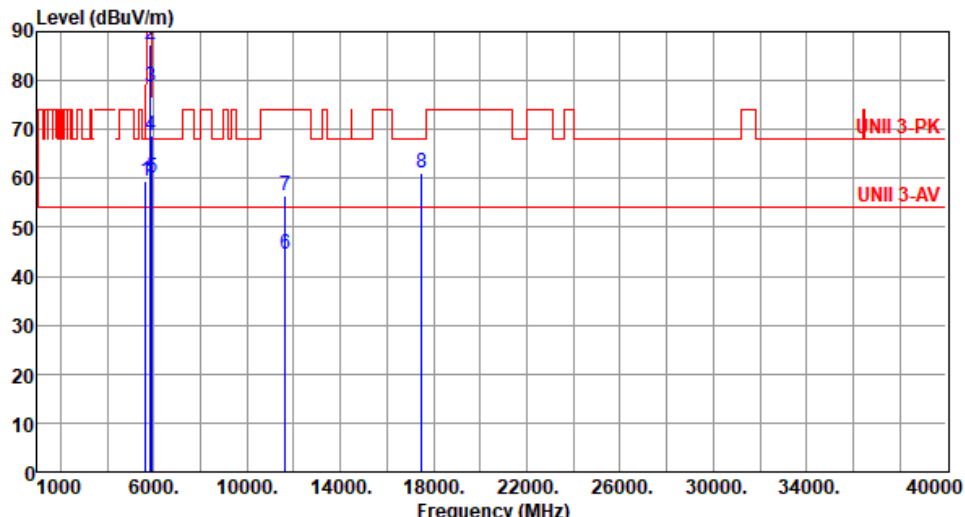
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5745																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																													
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>58.39</td><td>68.20</td><td>-9.81</td><td>53.58</td><td>4.81</td><td>Peak</td><td>162</td><td>103</td></tr><tr><td>2</td><td>5700.00</td><td>61.97</td><td>105.20</td><td>-43.23</td><td>56.95</td><td>5.02</td><td>Peak</td><td>162</td><td>103</td></tr><tr><td>3</td><td>5720.00</td><td>73.73</td><td>110.80</td><td>-37.07</td><td>68.59</td><td>5.14</td><td>Peak</td><td>162</td><td>103</td></tr><tr><td>4</td><td>5725.00</td><td>82.83</td><td>122.20</td><td>-39.37</td><td>77.66</td><td>5.17</td><td>Peak</td><td>162</td><td>103</td></tr><tr><td>5</td><td>5925.00</td><td>59.58</td><td>68.20</td><td>-8.62</td><td>53.97</td><td>5.61</td><td>Peak</td><td>162</td><td>103</td></tr><tr><td>6</td><td>11490.00</td><td>46.15</td><td>54.00</td><td>-7.85</td><td>31.76</td><td>14.39</td><td>Average</td><td>309</td><td>305</td></tr><tr><td>7</td><td>11490.00</td><td>58.14</td><td>74.00</td><td>-15.86</td><td>43.75</td><td>14.39</td><td>Peak</td><td>309</td><td>305</td></tr><tr><td>8</td><td>17235.00</td><td>61.34</td><td>68.20</td><td>-6.86</td><td>43.88</td><td>17.46</td><td>Peak</td><td>100</td><td>302</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	58.39	68.20	-9.81	53.58	4.81	Peak	162	103	2	5700.00	61.97	105.20	-43.23	56.95	5.02	Peak	162	103	3	5720.00	73.73	110.80	-37.07	68.59	5.14	Peak	162	103	4	5725.00	82.83	122.20	-39.37	77.66	5.17	Peak	162	103	5	5925.00	59.58	68.20	-8.62	53.97	5.61	Peak	162	103	6	11490.00	46.15	54.00	-7.85	31.76	14.39	Average	309	305	7	11490.00	58.14	74.00	-15.86	43.75	14.39	Peak	309	305	8	17235.00	61.34	68.20	-6.86	43.88	17.46	Peak	100	302
	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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2	5700.00	61.97	105.20	-43.23	56.95	5.02	Peak	162	103																																																																																				
3	5720.00	73.73	110.80	-37.07	68.59	5.14	Peak	162	103																																																																																				
4	5725.00	82.83	122.20	-39.37	77.66	5.17	Peak	162	103																																																																																				
5	5925.00	59.58	68.20	-8.62	53.97	5.61	Peak	162	103																																																																																				
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Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65			
Level (dBuV/m) <			

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5785																																																																																
Polarization	Horizontal																																																																																		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																			
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>5650.00</td><td>58.39</td><td>68.20</td><td>-9.81</td><td>53.58</td><td>4.81</td><td>Peak</td><td>160</td><td>107</td></tr><tr><td>2</td><td>5925.00</td><td>59.28</td><td>68.20</td><td>-8.92</td><td>53.67</td><td>5.61</td><td>Peak</td><td>160</td><td>107</td></tr><tr><td>3</td><td>11570.00</td><td>46.13</td><td>54.00</td><td>-7.87</td><td>31.88</td><td>14.25</td><td>Average</td><td>302</td><td>310</td></tr><tr><td>4</td><td>11570.00</td><td>58.07</td><td>74.00</td><td>-15.93</td><td>43.82</td><td>14.25</td><td>Peak</td><td>302</td><td>310</td></tr><tr><td>5</td><td>17355.00</td><td>61.69</td><td>68.20</td><td>-6.51</td><td>43.78</td><td>17.91</td><td>Peak</td><td>100</td><td>303</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	5650.00	58.39	68.20	-9.81	53.58	4.81	Peak	160	107	2	5925.00	59.28	68.20	-8.92	53.67	5.61	Peak	160	107	3	11570.00	46.13	54.00	-7.87	31.88	14.25	Average	302	310	4	11570.00	58.07	74.00	-15.93	43.82	14.25	Peak	302	310	5	17355.00	61.69	68.20	-6.51	43.78	17.91	Peak	100	303
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																										
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4	11570.00	58.07	74.00	-15.93	43.82	14.25	Peak	302	310																																																																										
5	17355.00	61.69	68.20	-6.51	43.78	17.91	Peak	100	303																																																																										
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).																																																																																			

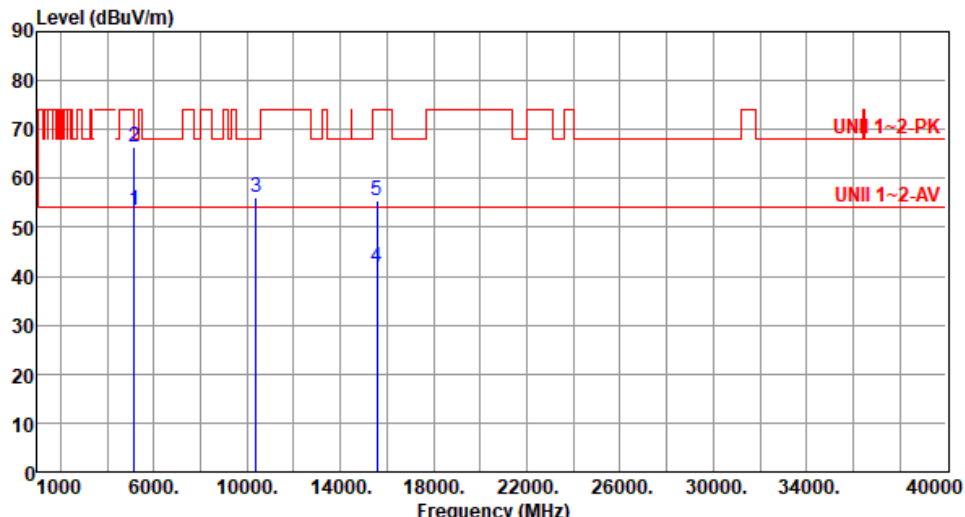
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5785																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																			
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>58.75</td><td>68.20</td><td>-9.45</td><td>53.94</td><td>4.81</td><td>Peak</td><td>169</td><td>305</td></tr><tr><td>2</td><td>5925.00</td><td>59.59</td><td>68.20</td><td>-8.61</td><td>53.98</td><td>5.61</td><td>Peak</td><td>169</td><td>305</td></tr><tr><td>3</td><td>11570.00</td><td>44.92</td><td>54.00</td><td>-9.08</td><td>30.67</td><td>14.25</td><td>Average</td><td>100</td><td>62</td></tr><tr><td>4</td><td>11570.00</td><td>56.74</td><td>74.00</td><td>-17.26</td><td>42.49</td><td>14.25</td><td>Peak</td><td>100</td><td>62</td></tr><tr><td>5</td><td>17355.00</td><td>60.56</td><td>68.20</td><td>-7.64</td><td>42.65</td><td>17.91</td><td>Peak</td><td>100</td><td>63</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	58.75	68.20	-9.45	53.94	4.81	Peak	169	305	2	5925.00	59.59	68.20	-8.61	53.98	5.61	Peak	169	305	3	11570.00	44.92	54.00	-9.08	30.67	14.25	Average	100	62	4	11570.00	56.74	74.00	-17.26	42.49	14.25	Peak	100	62	5	17355.00	60.56	68.20	-7.64	42.65	17.91	Peak	100	63
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																										
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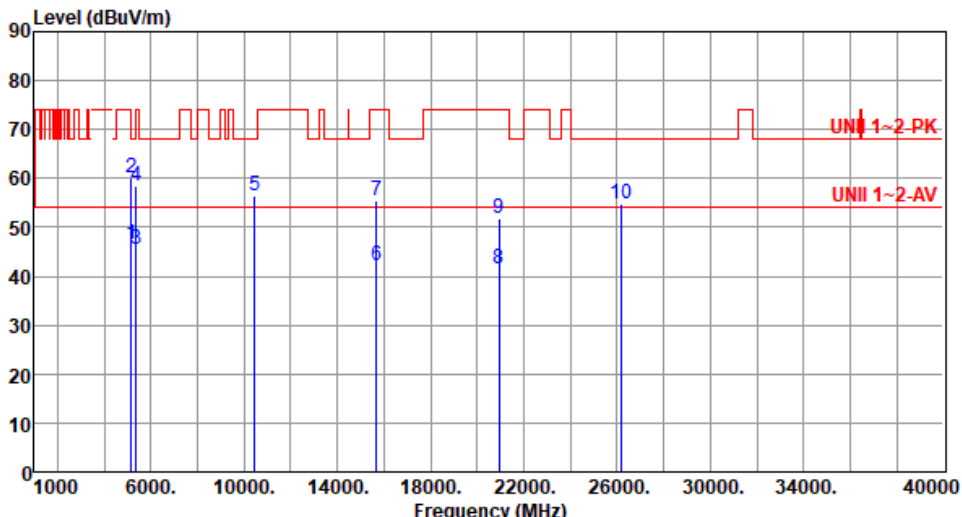
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																																																	
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>53.77</td><td>4.81</td><td>Peak</td><td>164</td><td>102</td></tr><tr><td>2</td><td>5850.00</td><td>80.23</td><td>122.20</td><td>-41.97</td><td>74.58</td><td>5.65</td><td>Peak</td><td>164</td><td>102</td></tr><tr><td>3</td><td>5855.00</td><td>70.24</td><td>110.80</td><td>-40.56</td><td>64.59</td><td>5.65</td><td>Peak</td><td>164</td><td>102</td></tr><tr><td>4</td><td>5875.00</td><td>61.24</td><td>105.20</td><td>-43.96</td><td>55.58</td><td>5.66</td><td>Peak</td><td>164</td><td>102</td></tr><tr><td>5</td><td>5925.00</td><td>59.23</td><td>68.20</td><td>-8.97</td><td>53.62</td><td>5.61</td><td>Peak</td><td>164</td><td>102</td></tr><tr><td>6</td><td>11650.00</td><td>45.65</td><td>54.00</td><td>-8.35</td><td>31.75</td><td>13.90</td><td>Average</td><td>343</td><td>302</td></tr><tr><td>7</td><td>11650.00</td><td>57.70</td><td>74.00</td><td>-16.30</td><td>43.80</td><td>13.90</td><td>Peak</td><td>343</td><td>302</td></tr><tr><td>8</td><td>17475.00</td><td>62.19</td><td>68.20</td><td>-6.01</td><td>43.64</td><td>18.55</td><td>Peak</td><td>100</td><td>312</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	53.77	4.81	Peak	164	102	2	5850.00	80.23	122.20	-41.97	74.58	5.65	Peak	164	102	3	5855.00	70.24	110.80	-40.56	64.59	5.65	Peak	164	102	4	5875.00	61.24	105.20	-43.96	55.58	5.66	Peak	164	102	5	5925.00	59.23	68.20	-8.97	53.62	5.61	Peak	164	102	6	11650.00	45.65	54.00	-8.35	31.75	13.90	Average	343	302	7	11650.00	57.70	74.00	-16.30	43.80	13.90	Peak	343	302	8	17475.00	62.19	68.20	-6.01	43.64	18.55	Peak	100	312
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																													
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>59.40</td><td>68.20</td><td>-8.80</td><td>54.59</td><td>4.81</td><td>Peak</td><td>182</td><td>313</td></tr><tr><td>2</td><td>5850.00</td><td>87.50</td><td>122.20</td><td>-34.70</td><td>81.85</td><td>5.65</td><td>Peak</td><td>182</td><td>313</td></tr><tr><td>3</td><td>5855.00</td><td>78.55</td><td>110.80</td><td>-32.25</td><td>72.90</td><td>5.65</td><td>Peak</td><td>182</td><td>313</td></tr><tr><td>4</td><td>5875.00</td><td>68.85</td><td>105.20</td><td>-36.35</td><td>63.19</td><td>5.66</td><td>Peak</td><td>182</td><td>313</td></tr><tr><td>5</td><td>5925.00</td><td>60.27</td><td>68.20</td><td>-7.93</td><td>54.66</td><td>5.61</td><td>Peak</td><td>182</td><td>313</td></tr><tr><td>6</td><td>11650.00</td><td>44.52</td><td>54.00</td><td>-9.48</td><td>30.62</td><td>13.90</td><td>Average</td><td>100</td><td>54</td></tr><tr><td>7</td><td>11650.00</td><td>56.56</td><td>74.00</td><td>-17.44</td><td>42.66</td><td>13.90</td><td>Peak</td><td>100</td><td>54</td></tr><tr><td>8</td><td>17475.00</td><td>61.18</td><td>68.20</td><td>-7.02</td><td>42.63</td><td>18.55</td><td>Peak</td><td>100</td><td>49</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	59.40	68.20	-8.80	54.59	4.81	Peak	182	313	2	5850.00	87.50	122.20	-34.70	81.85	5.65	Peak	182	313	3	5855.00	78.55	110.80	-32.25	72.90	5.65	Peak	182	313	4	5875.00	68.85	105.20	-36.35	63.19	5.66	Peak	182	313	5	5925.00	60.27	68.20	-7.93	54.66	5.61	Peak	182	313	6	11650.00	44.52	54.00	-9.48	30.62	13.90	Average	100	54	7	11650.00	56.56	74.00	-17.44	42.66	13.90	Peak	100	54	8	17475.00	61.18	68.20	-7.02	42.63	18.55	Peak	100	49
	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	59.40	68.20	-8.80	54.59	4.81	Peak	182	313																																																																																				
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7	11650.00	56.56	74.00	-17.44	42.66	13.90	Peak	100	54																																																																																				
8	17475.00	61.18	68.20	-7.02	42.63	18.55	Peak	100	49																																																																																				
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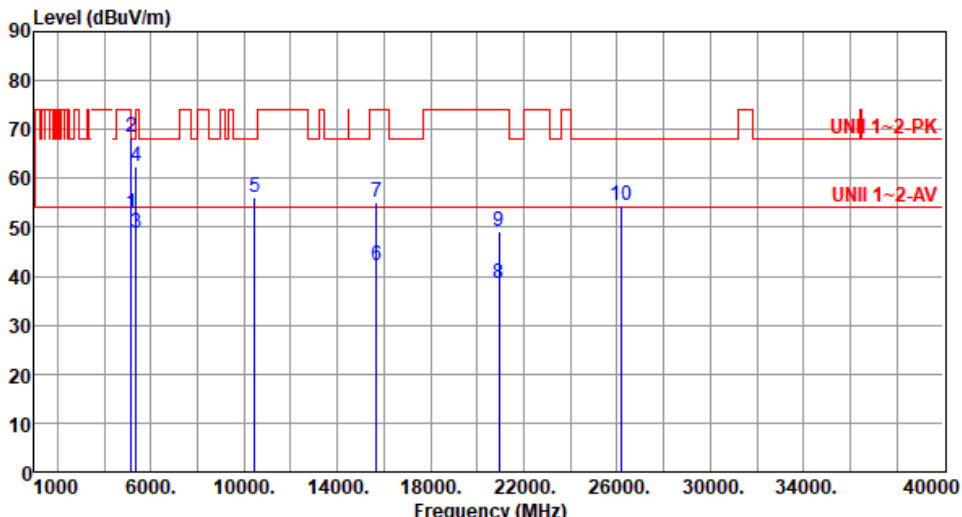
3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE40-OFDMA

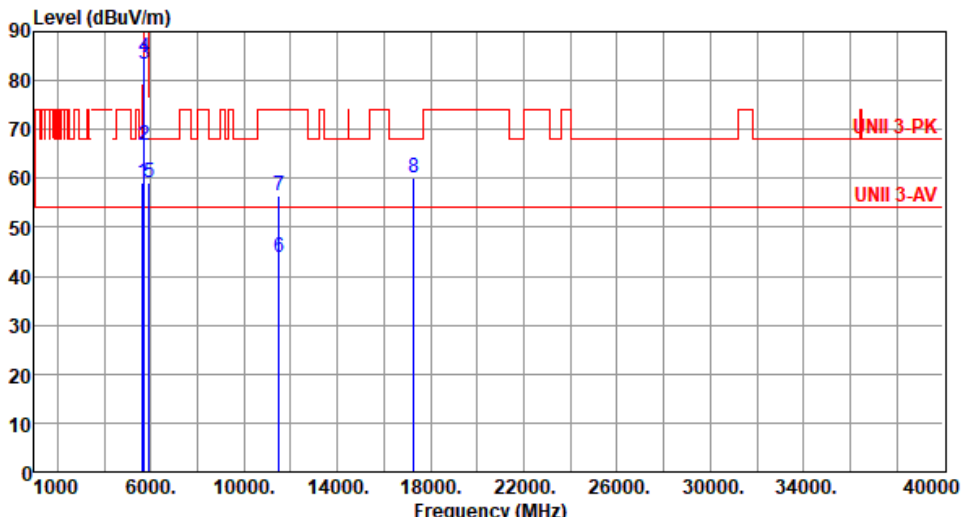
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5190
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65			
Level (dBuV/m)			

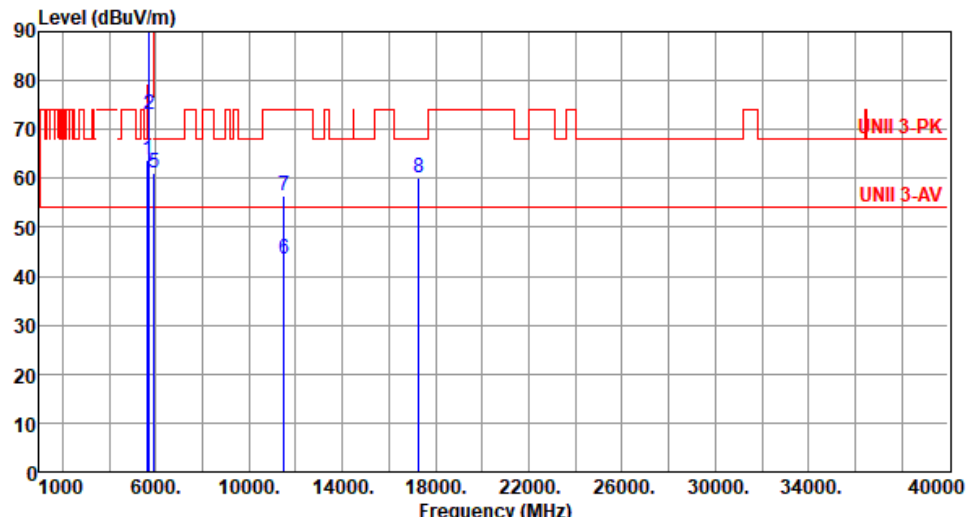
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5190																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																			
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></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>53.55</td><td>54.00</td><td>-0.45</td><td>48.54</td><td>5.01</td><td>Average</td><td>129</td><td>259</td></tr><tr><td>2</td><td>5150.00</td><td>66.57</td><td>74.00</td><td>-7.43</td><td>61.56</td><td>5.01</td><td>Peak</td><td>129</td><td>259</td></tr><tr><td>3</td><td>10380.00</td><td>56.28</td><td>68.20</td><td>-11.92</td><td>42.01</td><td>14.27</td><td>Peak</td><td>100</td><td>20</td></tr><tr><td>4</td><td>15570.00</td><td>41.91</td><td>54.00</td><td>-12.09</td><td>28.43</td><td>13.48</td><td>Average</td><td>100</td><td>70</td></tr><tr><td>5</td><td>15570.00</td><td>55.47</td><td>74.00</td><td>-18.53</td><td>41.99</td><td>13.48</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			cm	deg	1	5150.00	53.55	54.00	-0.45	48.54	5.01	Average	129	259	2	5150.00	66.57	74.00	-7.43	61.56	5.01	Peak	129	259	3	10380.00	56.28	68.20	-11.92	42.01	14.27	Peak	100	20	4	15570.00	41.91	54.00	-12.09	28.43	13.48	Average	100	70	5	15570.00	55.47	74.00	-18.53	41.99	13.48	Peak	100	70
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																										
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																										
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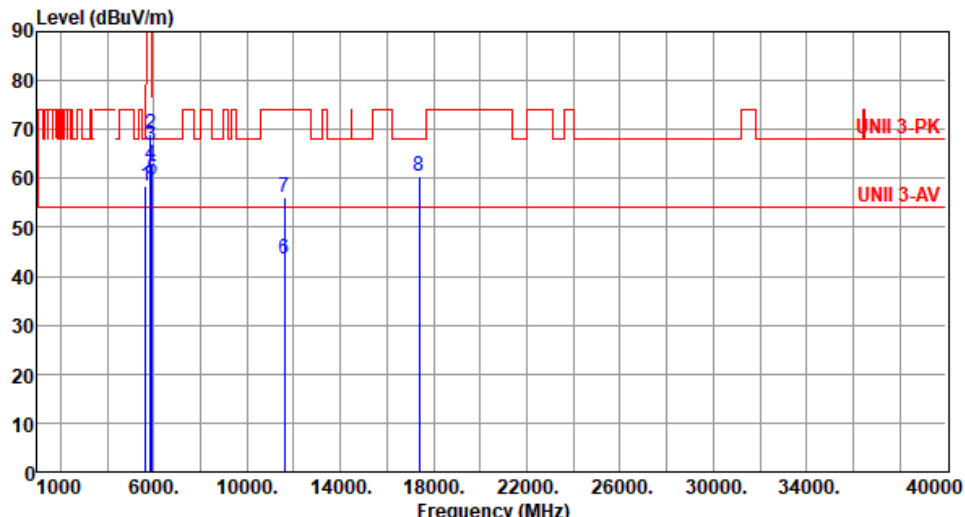
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5230						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):22 Humidity(%):65									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.41	54.00	-7.59	41.40	5.01	Average	185	260
2	5150.00	60.27	74.00	-13.73	55.26	5.01	Peak	185	260
3	5350.00	45.58	54.00	-8.42	41.16	4.42	Average	185	260
4	5350.00	58.44	74.00	-15.56	54.02	4.42	Peak	185	260
5	10460.00	56.58	68.20	-11.62	42.15	14.43	Peak	100	60
6	15690.00	42.16	54.00	-11.84	28.76	13.40	Average	100	222
7	15690.00	55.55	74.00	-18.45	42.15	13.40	Peak	100	222
8	20920.00	41.57	54.00	-12.43	36.16	5.41	Average	100	262
9	20920.00	51.68	74.00	-22.32	46.27	5.41	Peak	100	262
10	26150.00	54.89	68.20	-13.31	43.76	11.13	Peak	100	260

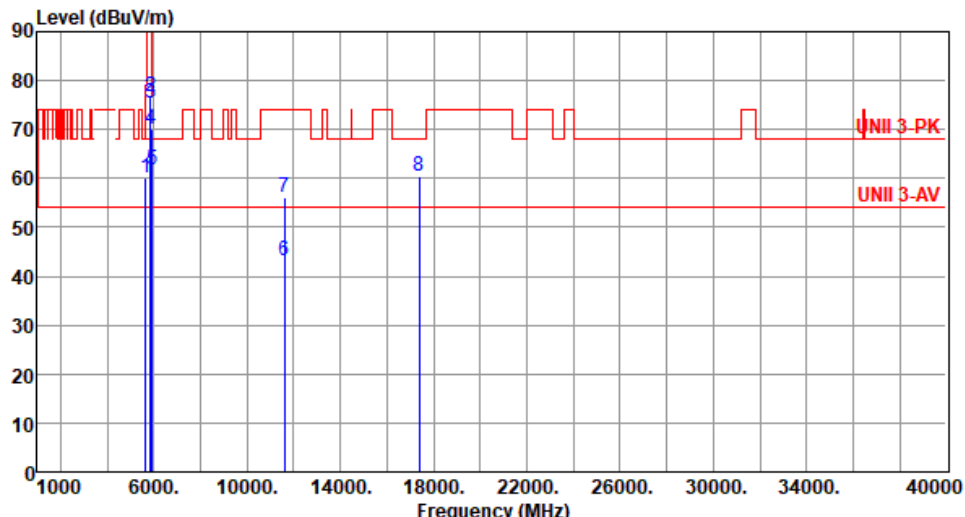
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5230																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																																																	
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>5150.00</td><td>52.90</td><td>54.00</td><td>-1.10</td><td>47.89</td><td>5.01</td><td>Average</td><td>161</td><td>258</td></tr><tr><td>2</td><td>5150.00</td><td>68.51</td><td>74.00</td><td>-5.49</td><td>63.50</td><td>5.01</td><td>Peak</td><td>161</td><td>258</td></tr><tr><td>3</td><td>5350.00</td><td>48.67</td><td>54.00</td><td>-5.33</td><td>44.25</td><td>4.42</td><td>Average</td><td>161</td><td>258</td></tr><tr><td>4</td><td>5350.00</td><td>62.30</td><td>74.00</td><td>-11.70</td><td>57.88</td><td>4.42</td><td>Peak</td><td>161</td><td>258</td></tr><tr><td>5</td><td>10460.00</td><td>56.02</td><td>68.20</td><td>-12.18</td><td>41.59</td><td>14.43</td><td>Peak</td><td>100</td><td>20</td></tr><tr><td>6</td><td>15690.00</td><td>42.04</td><td>54.00</td><td>-11.96</td><td>28.64</td><td>13.40</td><td>Average</td><td>100</td><td>70</td></tr><tr><td>7</td><td>15690.00</td><td>55.19</td><td>74.00</td><td>-18.81</td><td>41.79</td><td>13.40</td><td>Peak</td><td>100</td><td>70</td></tr><tr><td>8</td><td>20920.00</td><td>38.64</td><td>54.00</td><td>-15.36</td><td>33.23</td><td>5.41</td><td>Average</td><td>100</td><td>265</td></tr><tr><td>9</td><td>20920.00</td><td>49.01</td><td>74.00</td><td>-24.99</td><td>43.60</td><td>5.41</td><td>Peak</td><td>100</td><td>265</td></tr><tr><td>10</td><td>26150.00</td><td>54.38</td><td>68.20</td><td>-13.82</td><td>43.25</td><td>11.13</td><td>Peak</td><td>100</td><td>50</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	5150.00	52.90	54.00	-1.10	47.89	5.01	Average	161	258	2	5150.00	68.51	74.00	-5.49	63.50	5.01	Peak	161	258	3	5350.00	48.67	54.00	-5.33	44.25	4.42	Average	161	258	4	5350.00	62.30	74.00	-11.70	57.88	4.42	Peak	161	258	5	10460.00	56.02	68.20	-12.18	41.59	14.43	Peak	100	20	6	15690.00	42.04	54.00	-11.96	28.64	13.40	Average	100	70	7	15690.00	55.19	74.00	-18.81	41.79	13.40	Peak	100	70	8	20920.00	38.64	54.00	-15.36	33.23	5.41	Average	100	265	9	20920.00	49.01	74.00	-24.99	43.60	5.41	Peak	100	265	10	26150.00	54.38	68.20	-13.82	43.25	11.13	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	5150.00	52.90	54.00	-1.10	47.89	5.01	Average	161	258																																																																																																								
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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)	5755																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																													
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>59.06</td><td>68.20</td><td>-9.14</td><td>54.25</td><td>4.81</td><td>Peak</td><td>163</td><td>102</td></tr><tr><td>2</td><td>5700.00</td><td>66.61</td><td>105.20</td><td>-38.59</td><td>61.59</td><td>5.02</td><td>Peak</td><td>163</td><td>102</td></tr><tr><td>3</td><td>5720.00</td><td>83.40</td><td>110.80</td><td>-27.40</td><td>78.26</td><td>5.14</td><td>Peak</td><td>163</td><td>102</td></tr><tr><td>4</td><td>5725.00</td><td>84.73</td><td>122.20</td><td>-37.47</td><td>79.56</td><td>5.17</td><td>Peak</td><td>163</td><td>102</td></tr><tr><td>5</td><td>5925.00</td><td>59.16</td><td>68.20</td><td>-9.04</td><td>53.55</td><td>5.61</td><td>Peak</td><td>163</td><td>102</td></tr><tr><td>6</td><td>11510.00</td><td>43.85</td><td>54.00</td><td>-10.15</td><td>29.45</td><td>14.40</td><td>Average</td><td>100</td><td>60</td></tr><tr><td>7</td><td>11510.00</td><td>56.59</td><td>74.00</td><td>-17.41</td><td>42.19</td><td>14.40</td><td>Peak</td><td>100</td><td>60</td></tr><tr><td>8</td><td>17265.00</td><td>60.26</td><td>68.20</td><td>-7.94</td><td>42.76</td><td>17.50</td><td>Peak</td><td>100</td><td>80</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	59.06	68.20	-9.14	54.25	4.81	Peak	163	102	2	5700.00	66.61	105.20	-38.59	61.59	5.02	Peak	163	102	3	5720.00	83.40	110.80	-27.40	78.26	5.14	Peak	163	102	4	5725.00	84.73	122.20	-37.47	79.56	5.17	Peak	163	102	5	5925.00	59.16	68.20	-9.04	53.55	5.61	Peak	163	102	6	11510.00	43.85	54.00	-10.15	29.45	14.40	Average	100	60	7	11510.00	56.59	74.00	-17.41	42.19	14.40	Peak	100	60	8	17265.00	60.26	68.20	-7.94	42.76	17.50	Peak	100	80
	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	59.06	68.20	-9.14	54.25	4.81	Peak	163	102																																																																																				
2	5700.00	66.61	105.20	-38.59	61.59	5.02	Peak	163	102																																																																																				
3	5720.00	83.40	110.80	-27.40	78.26	5.14	Peak	163	102																																																																																				
4	5725.00	84.73	122.20	-37.47	79.56	5.17	Peak	163	102																																																																																				
5	5925.00	59.16	68.20	-9.04	53.55	5.61	Peak	163	102																																																																																				
6	11510.00	43.85	54.00	-10.15	29.45	14.40	Average	100	60																																																																																				
7	11510.00	56.59	74.00	-17.41	42.19	14.40	Peak	100	60																																																																																				
8	17265.00	60.26	68.20	-7.94	42.76	17.50	Peak	100	80																																																																																				

Modulation	ax HE40-OFDMA		Test Freq. (MHz)	5755																																																																																																															
Polarization	Vertical																																																																																																																		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																																																			
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																										
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																																										
								cm	deg																																																																																																										
1	5650.00	63.75	68.20	-4.45	58.94	4.81	Peak	172	302																																																																																																										
2	5700.00	73.02	105.20	-32.18	68.00	5.02	Peak	172	302																																																																																																										
3	5720.00	90.79	110.80	-20.01	85.65	5.14	Peak	172	302																																																																																																										
4	5725.00	91.50	122.20	-30.70	86.33	5.17	Peak	172	302																																																																																																										
5	5925.00	61.08	68.20	-7.12	55.47	5.61	Peak	172	302																																																																																																										
6	11510.00	43.62	54.00	-10.38	29.22	14.40	Average	100	40																																																																																																										
7	11510.00	56.46	74.00	-17.54	42.06	14.40	Peak	100	40																																																																																																										
8	17265.00	59.96	68.20	-8.24	42.46	17.50	Peak	100	100																																																																																																										
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).																																																																																																																			

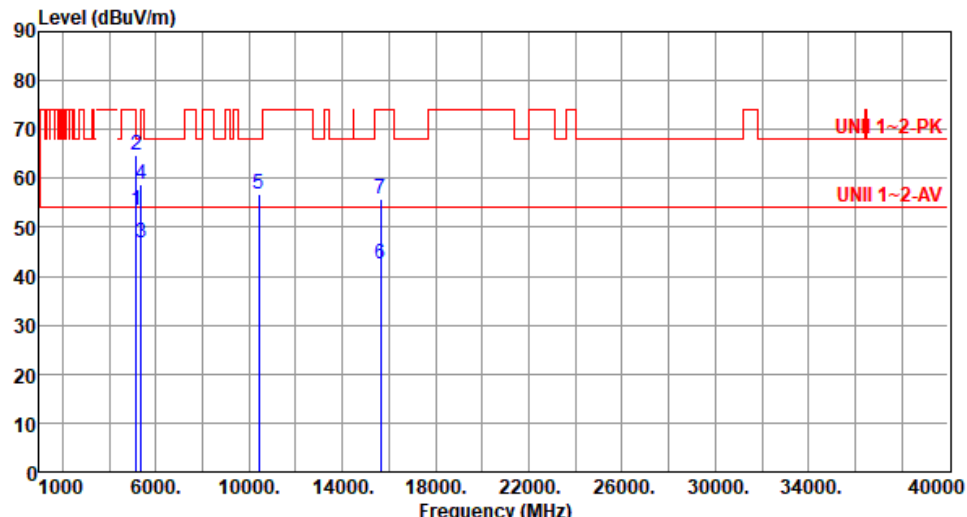
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5795																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																																																	
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>58.46</td><td>68.20</td><td>-9.74</td><td>53.65</td><td>4.81</td><td>Peak</td><td>159</td><td>108</td></tr><tr><td>2</td><td>5850.00</td><td>69.13</td><td>122.20</td><td>-53.07</td><td>63.48</td><td>5.65</td><td>Peak</td><td>159</td><td>108</td></tr><tr><td>3</td><td>5855.00</td><td>66.87</td><td>110.80</td><td>-43.93</td><td>61.22</td><td>5.65</td><td>Peak</td><td>159</td><td>108</td></tr><tr><td>4</td><td>5875.00</td><td>62.90</td><td>105.20</td><td>-42.30</td><td>57.24</td><td>5.66</td><td>Peak</td><td>159</td><td>108</td></tr><tr><td>5</td><td>5925.00</td><td>59.67</td><td>68.20</td><td>-8.53</td><td>54.06</td><td>5.61</td><td>Peak</td><td>159</td><td>108</td></tr><tr><td>6</td><td>11590.00</td><td>43.49</td><td>54.00</td><td>-10.51</td><td>29.30</td><td>14.19</td><td>Average</td><td>100</td><td>40</td></tr><tr><td>7</td><td>11590.00</td><td>56.27</td><td>74.00</td><td>-17.73</td><td>42.08</td><td>14.19</td><td>Peak</td><td>100</td><td>40</td></tr><tr><td>8</td><td>17385.00</td><td>60.58</td><td>68.20</td><td>-7.62</td><td>42.45</td><td>18.13</td><td>Peak</td><td>100</td><td>120</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	58.46	68.20	-9.74	53.65	4.81	Peak	159	108	2	5850.00	69.13	122.20	-53.07	63.48	5.65	Peak	159	108	3	5855.00	66.87	110.80	-43.93	61.22	5.65	Peak	159	108	4	5875.00	62.90	105.20	-42.30	57.24	5.66	Peak	159	108	5	5925.00	59.67	68.20	-8.53	54.06	5.61	Peak	159	108	6	11590.00	43.49	54.00	-10.51	29.30	14.19	Average	100	40	7	11590.00	56.27	74.00	-17.73	42.08	14.19	Peak	100	40	8	17385.00	60.58	68.20	-7.62	42.45	18.13	Peak	100	120
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																																								
								cm	deg																																																																																																								
1	5650.00	58.46	68.20	-9.74	53.65	4.81	Peak	159	108																																																																																																								
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3	5855.00	66.87	110.80	-43.93	61.22	5.65	Peak	159	108																																																																																																								
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8	17385.00	60.58	68.20	-7.62	42.45	18.13	Peak	100	120																																																																																																								
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):22 Humidity(%):65									
Level (dBuV/m)  Frequency (MHz)									
	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	59.99	68.20	-8.21	55.18	4.81	Peak	163	315
2	5850.00	76.63	122.20	-45.57	70.98	5.65	Peak	163	315
3	5855.00	75.34	110.80	-35.46	69.69	5.65	Peak	163	315
4	5875.00	70.00	105.20	-35.20	64.34	5.66	Peak	163	315
5	5925.00	61.68	68.20	-6.52	56.07	5.61	Peak	163	315
6	11590.00	43.22	54.00	-10.78	29.03	14.19	Average	100	60
7	11590.00	56.09	74.00	-17.91	41.90	14.19	Peak	100	60
8	17385.00	60.36	68.20	-7.84	42.23	18.13	Peak	100	90

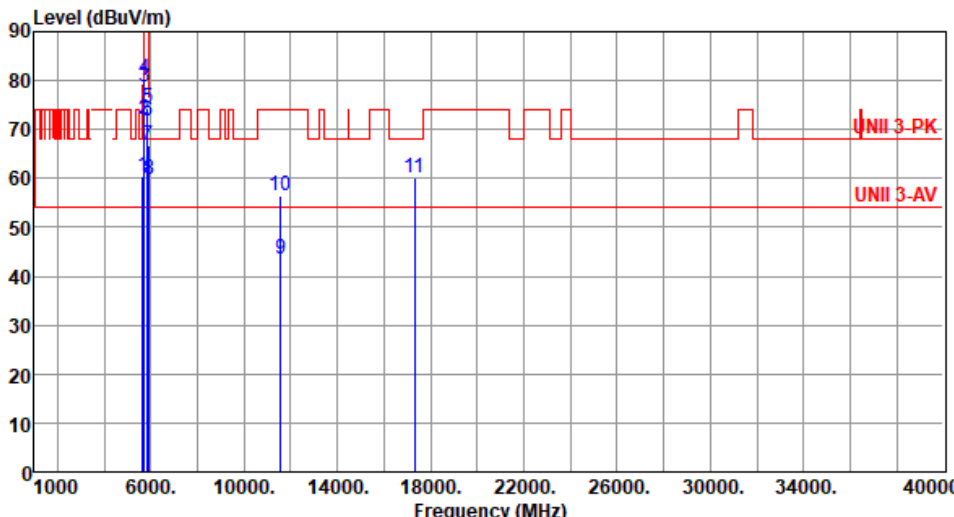
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

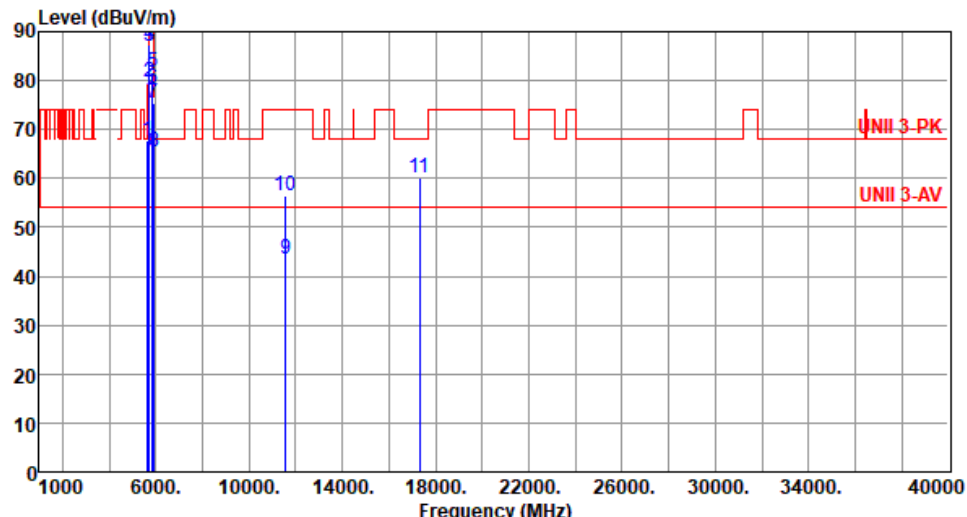
3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE80-OFDMA

Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5210
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):22 Humidity(%):65			
Level (dBuV/m)			

Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5210						
Polarization	Vertical								
Test By :Roger Lu Temperature(°C):22 Humidity(%):65									
Level (dBuV/m)  Frequency (MHz)									
	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	53.57	54.00	-0.43	48.56	5.01	Average	131	257
2	5150.00	64.68	74.00	-9.32	59.67	5.01	Peak	131	257
3	5350.00	46.69	54.00	-7.31	42.27	4.42	Average	131	257
4	5350.00	58.94	74.00	-15.06	54.52	4.42	Peak	131	257
5	10420.00	56.67	68.20	-11.53	42.31	14.36	Peak	100	90
6	15630.00	42.56	54.00	-11.44	29.21	13.35	Average	100	30
7	15630.00	55.66	74.00	-18.34	42.31	13.35	Peak	100	30

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).

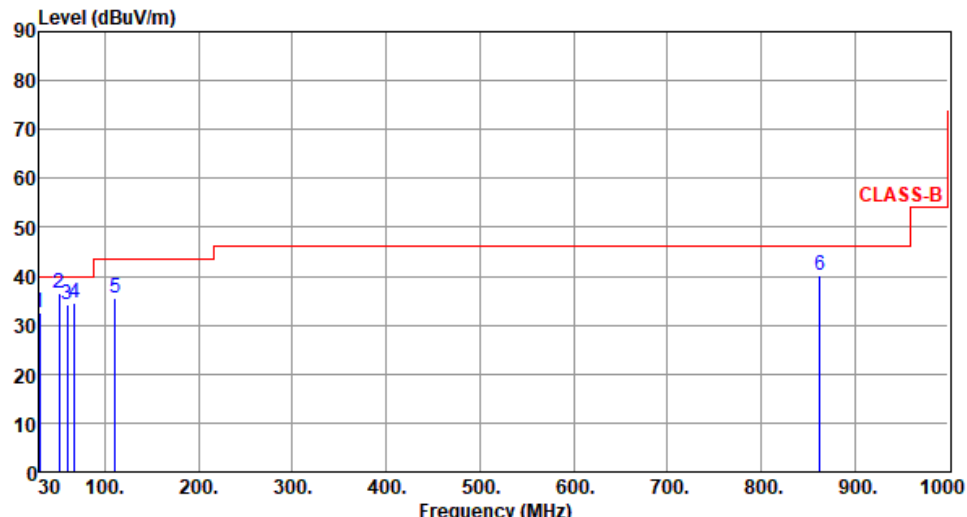
Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5775																																																																																																																								
Polarization	Horizontal																																																																																																																										
Test By :Roger Lu Temperature(°C):22 Humidity(%):65																																																																																																																											
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>60.39</td><td>68.20</td><td>-7.81</td><td>55.58</td><td>4.81</td><td>Peak</td><td>188</td><td>105</td></tr><tr><td>2</td><td>5700.00</td><td>71.97</td><td>105.20</td><td>-33.23</td><td>66.95</td><td>5.02</td><td>Peak</td><td>188</td><td>105</td></tr><tr><td>3</td><td>5720.00</td><td>78.68</td><td>110.80</td><td>-32.12</td><td>73.54</td><td>5.14</td><td>Peak</td><td>188</td><td>105</td></tr><tr><td>4</td><td>5725.00</td><td>80.32</td><td>122.20</td><td>-41.88</td><td>75.15</td><td>5.17</td><td>Peak</td><td>188</td><td>105</td></tr><tr><td>5</td><td>5850.00</td><td>74.24</td><td>122.20</td><td>-47.96</td><td>68.59</td><td>5.65</td><td>Peak</td><td>188</td><td>105</td></tr><tr><td>6</td><td>5855.00</td><td>71.82</td><td>110.80</td><td>-38.98</td><td>66.17</td><td>5.65</td><td>Peak</td><td>188</td><td>105</td></tr><tr><td>7</td><td>5875.00</td><td>66.90</td><td>105.20</td><td>-38.30</td><td>61.24</td><td>5.66</td><td>Peak</td><td>188</td><td>105</td></tr><tr><td>8</td><td>5925.00</td><td>59.83</td><td>68.20</td><td>-8.37</td><td>54.22</td><td>5.61</td><td>Peak</td><td>188</td><td>105</td></tr><tr><td>9</td><td>11550.00</td><td>43.55</td><td>54.00</td><td>-10.45</td><td>29.25</td><td>14.30</td><td>Average</td><td>100</td><td>40</td></tr><tr><td>10</td><td>11550.00</td><td>56.56</td><td>74.00</td><td>-17.44</td><td>42.26</td><td>14.30</td><td>Peak</td><td>100</td><td>40</td></tr><tr><td>11</td><td>17325.00</td><td>60.26</td><td>68.20</td><td>-7.94</td><td>42.55</td><td>17.71</td><td>Peak</td><td>100</td><td>90</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	60.39	68.20	-7.81	55.58	4.81	Peak	188	105	2	5700.00	71.97	105.20	-33.23	66.95	5.02	Peak	188	105	3	5720.00	78.68	110.80	-32.12	73.54	5.14	Peak	188	105	4	5725.00	80.32	122.20	-41.88	75.15	5.17	Peak	188	105	5	5850.00	74.24	122.20	-47.96	68.59	5.65	Peak	188	105	6	5855.00	71.82	110.80	-38.98	66.17	5.65	Peak	188	105	7	5875.00	66.90	105.20	-38.30	61.24	5.66	Peak	188	105	8	5925.00	59.83	68.20	-8.37	54.22	5.61	Peak	188	105	9	11550.00	43.55	54.00	-10.45	29.25	14.30	Average	100	40	10	11550.00	56.56	74.00	-17.44	42.26	14.30	Peak	100	40	11	17325.00	60.26	68.20	-7.94	42.55	17.71	Peak	100	90
	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	60.39	68.20	-7.81	55.58	4.81	Peak	188	105																																																																																																																		
2	5700.00	71.97	105.20	-33.23	66.95	5.02	Peak	188	105																																																																																																																		
3	5720.00	78.68	110.80	-32.12	73.54	5.14	Peak	188	105																																																																																																																		
4	5725.00	80.32	122.20	-41.88	75.15	5.17	Peak	188	105																																																																																																																		
5	5850.00	74.24	122.20	-47.96	68.59	5.65	Peak	188	105																																																																																																																		
6	5855.00	71.82	110.80	-38.98	66.17	5.65	Peak	188	105																																																																																																																		
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8	5925.00	59.83	68.20	-8.37	54.22	5.61	Peak	188	105																																																																																																																		
9	11550.00	43.55	54.00	-10.45	29.25	14.30	Average	100	40																																																																																																																		
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Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5775																																																																																																																								
Polarization	Vertical																																																																																																																										
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Level (dBuV/m)  <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>67.76</td><td>68.20</td><td>-0.44</td><td>62.95</td><td>4.81</td><td>Peak</td><td>168</td><td>316</td></tr><tr><td>2</td><td>5700.00</td><td>79.80</td><td>105.20</td><td>-25.40</td><td>74.78</td><td>5.02</td><td>Peak</td><td>168</td><td>316</td></tr><tr><td>3</td><td>5720.00</td><td>87.09</td><td>110.80</td><td>-23.71</td><td>81.95</td><td>5.14</td><td>Peak</td><td>168</td><td>316</td></tr><tr><td>4</td><td>5725.00</td><td>87.43</td><td>122.20</td><td>-34.77</td><td>82.26</td><td>5.17</td><td>Peak</td><td>168</td><td>316</td></tr><tr><td>5</td><td>5850.00</td><td>81.59</td><td>122.20</td><td>-40.61</td><td>75.94</td><td>5.65</td><td>Peak</td><td>168</td><td>316</td></tr><tr><td>6</td><td>5855.00</td><td>78.52</td><td>110.80</td><td>-32.28</td><td>72.87</td><td>5.65</td><td>Peak</td><td>168</td><td>316</td></tr><tr><td>7</td><td>5875.00</td><td>75.47</td><td>105.20</td><td>-29.73</td><td>69.81</td><td>5.66</td><td>Peak</td><td>168</td><td>316</td></tr><tr><td>8</td><td>5925.00</td><td>65.43</td><td>68.20</td><td>-2.77</td><td>59.82</td><td>5.61</td><td>Peak</td><td>168</td><td>316</td></tr><tr><td>9</td><td>11550.00</td><td>43.42</td><td>54.00</td><td>-10.58</td><td>29.12</td><td>14.30</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>10</td><td>11550.00</td><td>56.48</td><td>74.00</td><td>-17.52</td><td>42.18</td><td>14.30</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>11</td><td>17325.00</td><td>60.14</td><td>68.20</td><td>-8.06</td><td>42.43</td><td>17.71</td><td>Peak</td><td>100</td><td>100</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	67.76	68.20	-0.44	62.95	4.81	Peak	168	316	2	5700.00	79.80	105.20	-25.40	74.78	5.02	Peak	168	316	3	5720.00	87.09	110.80	-23.71	81.95	5.14	Peak	168	316	4	5725.00	87.43	122.20	-34.77	82.26	5.17	Peak	168	316	5	5850.00	81.59	122.20	-40.61	75.94	5.65	Peak	168	316	6	5855.00	78.52	110.80	-32.28	72.87	5.65	Peak	168	316	7	5875.00	75.47	105.20	-29.73	69.81	5.66	Peak	168	316	8	5925.00	65.43	68.20	-2.77	59.82	5.61	Peak	168	316	9	11550.00	43.42	54.00	-10.58	29.12	14.30	Average	100	30	10	11550.00	56.48	74.00	-17.52	42.18	14.30	Peak	100	30	11	17325.00	60.14	68.20	-8.06	42.43	17.71	Peak	100	100
	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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2	5700.00	79.80	105.20	-25.40	74.78	5.02	Peak	168	316																																																																																																																		
3	5720.00	87.09	110.80	-23.71	81.95	5.14	Peak	168	316																																																																																																																		
4	5725.00	87.43	122.20	-34.77	82.26	5.17	Peak	168	316																																																																																																																		
5	5850.00	81.59	122.20	-40.61	75.94	5.65	Peak	168	316																																																																																																																		
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7	5875.00	75.47	105.20	-29.73	69.81	5.66	Peak	168	316																																																																																																																		
8	5925.00	65.43	68.20	-2.77	59.82	5.61	Peak	168	316																																																																																																																		
9	11550.00	43.42	54.00	-10.58	29.12	14.30	Average	100	30																																																																																																																		
10	11550.00	56.48	74.00	-17.52	42.18	14.30	Peak	100	30																																																																																																																		
11	17325.00	60.14	68.20	-8.06	42.43	17.71	Peak	100	100																																																																																																																		
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).																																																																																																																											

Beamforming mode

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

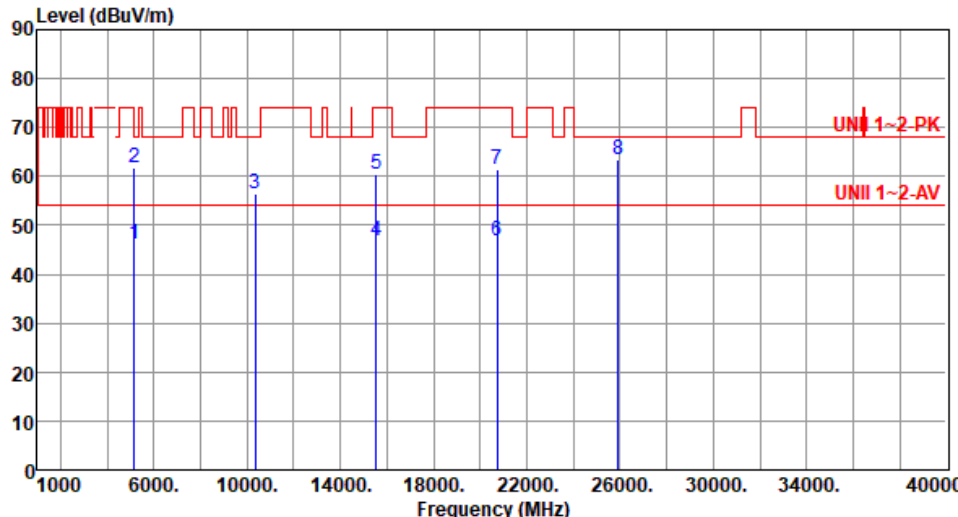
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65			
Level (dBuV/m) </			

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):22 Humidity(%):65																																																																																													
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>30.58</td><td>32.64</td><td>40.00</td><td>-7.36</td><td>42.58</td><td>-9.94</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>51.38</td><td>36.48</td><td>40.00</td><td>-3.52</td><td>45.26</td><td>-8.78</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>59.58</td><td>34.15</td><td>40.00</td><td>-5.85</td><td>43.39</td><td>-9.24</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>67.59</td><td>34.68</td><td>40.00</td><td>-5.32</td><td>44.89</td><td>-10.21</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>110.50</td><td>35.68</td><td>43.50</td><td>-7.82</td><td>47.36</td><td>-11.68</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>862.42</td><td>40.06</td><td>46.00</td><td>-5.94</td><td>37.18</td><td>2.88</td><td>Peak</td><td>---</td><td>---</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	30.58	32.64	40.00	-7.36	42.58	-9.94	Peak	---	---	2	51.38	36.48	40.00	-3.52	45.26	-8.78	Peak	---	---	3	59.58	34.15	40.00	-5.85	43.39	-9.24	Peak	---	---	4	67.59	34.68	40.00	-5.32	44.89	-10.21	Peak	---	---	5	110.50	35.68	43.50	-7.82	47.36	-11.68	Peak	---	---	6	862.42	40.06	46.00	-5.94	37.18	2.88	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																				
								cm	deg																																																																																				
1	30.58	32.64	40.00	-7.36	42.58	-9.94	Peak	---	---																																																																																				
2	51.38	36.48	40.00	-3.52	45.26	-8.78	Peak	---	---																																																																																				
3	59.58	34.15	40.00	-5.85	43.39	-9.24	Peak	---	---																																																																																				
4	67.59	34.68	40.00	-5.32	44.89	-10.21	Peak	---	---																																																																																				
5	110.50	35.68	43.50	-7.82	47.36	-11.68	Peak	---	---																																																																																				
6	862.42	40.06	46.00	-5.94	37.18	2.88	Peak	---	---																																																																																				
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). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																																													

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65			
Level (dBuV/m) </			

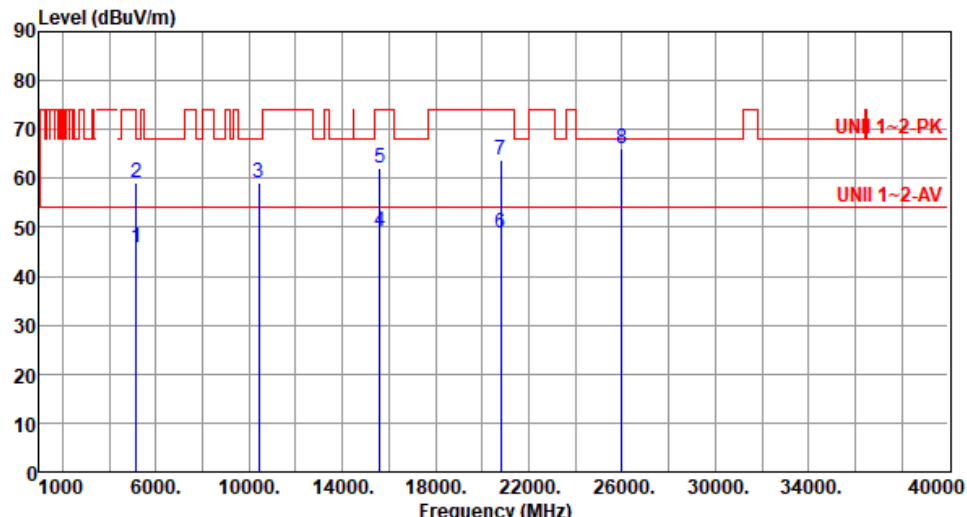
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):65			
Level (dBuV/m) <			

3.5.10 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(%):66									
Level (dBUV/m)  Frequency (MHz)									
	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	46.28	54.00	-7.72	41.27	5.01	Average	100	275
2	5150.00	61.87	74.00	-12.13	56.86	5.01	Peak	100	275
3	10360.00	56.48	68.20	-11.72	42.27	14.21	Peak	100	270
4	15540.00	46.79	54.00	-7.21	33.15	13.64	Average	205	236
5	15540.00	60.40	74.00	-13.60	46.76	13.64	Peak	205	236
6	20720.00	46.73	54.00	-7.27	41.56	5.17	Average	211	262
7	20720.00	61.52	74.00	-12.48	56.35	5.17	Peak	211	262
8	25900.00	63.41	68.20	-4.79	52.67	10.74	Peak	132	268

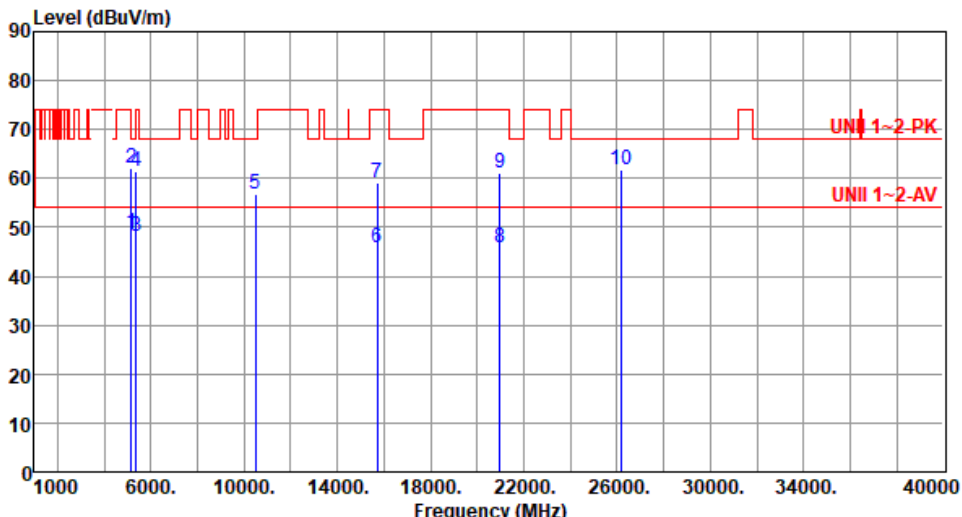
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m)			

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																													
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>45.71</td><td>54.00</td><td>-8.29</td><td>40.70</td><td>5.01</td><td>Average</td><td>100</td><td>275</td></tr><tr><td>2</td><td>5150.00</td><td>59.18</td><td>74.00</td><td>-14.82</td><td>54.17</td><td>5.01</td><td>Peak</td><td>100</td><td>275</td></tr><tr><td>3</td><td>10400.00</td><td>58.99</td><td>68.20</td><td>-9.21</td><td>44.66</td><td>14.33</td><td>Peak</td><td>125</td><td>277</td></tr><tr><td>4</td><td>15600.00</td><td>48.99</td><td>54.00</td><td>-5.01</td><td>35.66</td><td>13.33</td><td>Average</td><td>202</td><td>233</td></tr><tr><td>5</td><td>15600.00</td><td>62.25</td><td>74.00</td><td>-11.75</td><td>48.92</td><td>13.33</td><td>Peak</td><td>202</td><td>233</td></tr><tr><td>6</td><td>20800.00</td><td>48.98</td><td>54.00</td><td>-5.02</td><td>43.74</td><td>5.24</td><td>Average</td><td>210</td><td>259</td></tr><tr><td>7</td><td>20800.00</td><td>63.69</td><td>74.00</td><td>-10.31</td><td>58.45</td><td>5.24</td><td>Peak</td><td>210</td><td>259</td></tr><tr><td>8</td><td>26000.00</td><td>65.93</td><td>68.20</td><td>-2.27</td><td>55.02</td><td>10.91</td><td>Peak</td><td>133</td><td>264</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	45.71	54.00	-8.29	40.70	5.01	Average	100	275	2	5150.00	59.18	74.00	-14.82	54.17	5.01	Peak	100	275	3	10400.00	58.99	68.20	-9.21	44.66	14.33	Peak	125	277	4	15600.00	48.99	54.00	-5.01	35.66	13.33	Average	202	233	5	15600.00	62.25	74.00	-11.75	48.92	13.33	Peak	202	233	6	20800.00	48.98	54.00	-5.02	43.74	5.24	Average	210	259	7	20800.00	63.69	74.00	-10.31	58.45	5.24	Peak	210	259	8	26000.00	65.93	68.20	-2.27	55.02	10.91	Peak	133	264
	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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3	10400.00	58.99	68.20	-9.21	44.66	14.33	Peak	125	277																																																																																				
4	15600.00	48.99	54.00	-5.01	35.66	13.33	Average	202	233																																																																																				
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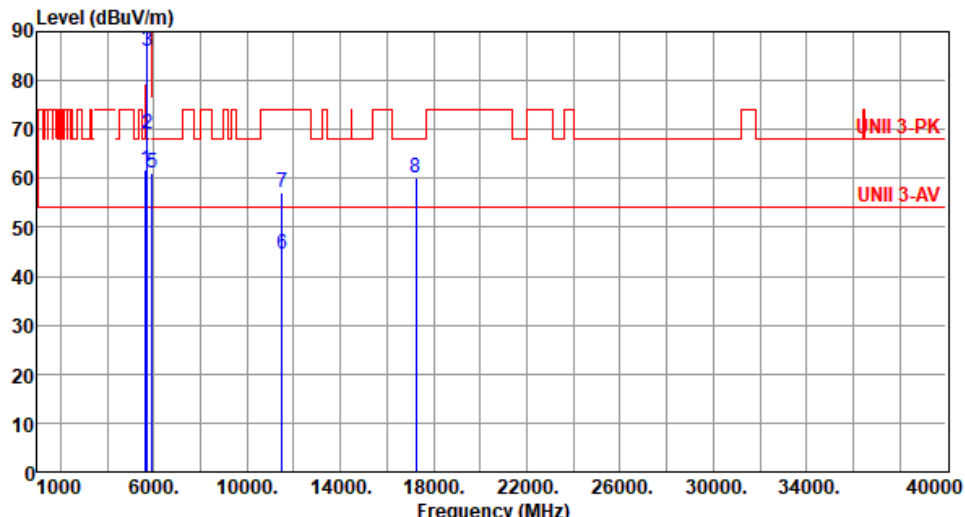
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																													
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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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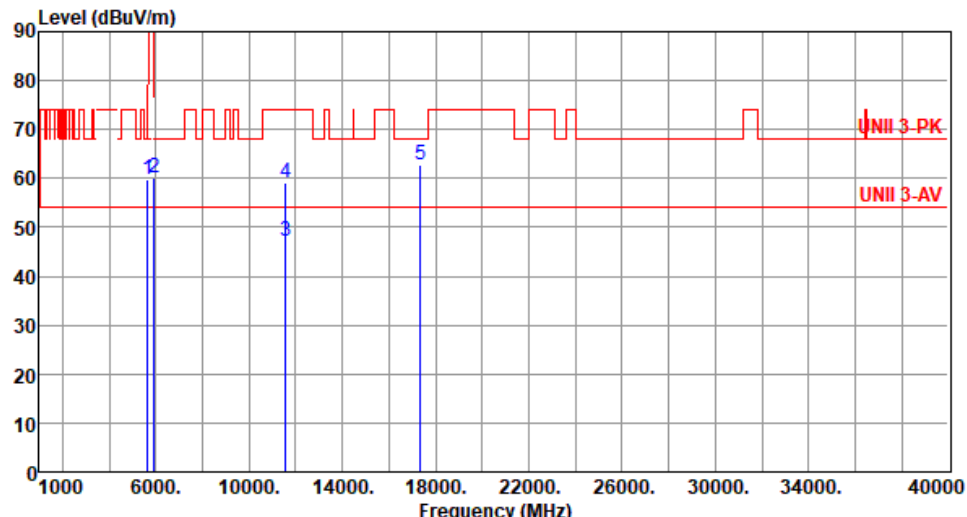
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m) </			

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5240						
Polarization	Vertical								
Test By :Akun Chung Temperature(°C):23 Humidity(%):66									
Level (dBuV/m)  Frequency (MHz)									
	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	48.68	54.00	-5.32	43.67	5.01	Average	165	250
2	5150.00	62.00	74.00	-12.00	56.99	5.01	Peak	165	250
3	5350.00	48.19	54.00	-5.81	43.77	4.42	Average	165	250
4	5350.00	61.40	74.00	-12.60	56.98	4.42	Peak	165	250
5	10480.00	56.69	68.20	-11.51	42.23	14.46	Peak	100	295
6	15720.00	45.69	54.00	-8.31	32.27	13.42	Average	116	305
7	15720.00	58.98	74.00	-15.02	45.56	13.42	Peak	116	305
8	20960.00	45.76	54.00	-8.24	40.28	5.48	Average	188	289
9	20960.00	61.07	74.00	-12.93	55.59	5.48	Peak	188	289
10	26200.00	61.74	68.20	-6.46	50.54	11.20	Peak	125	193

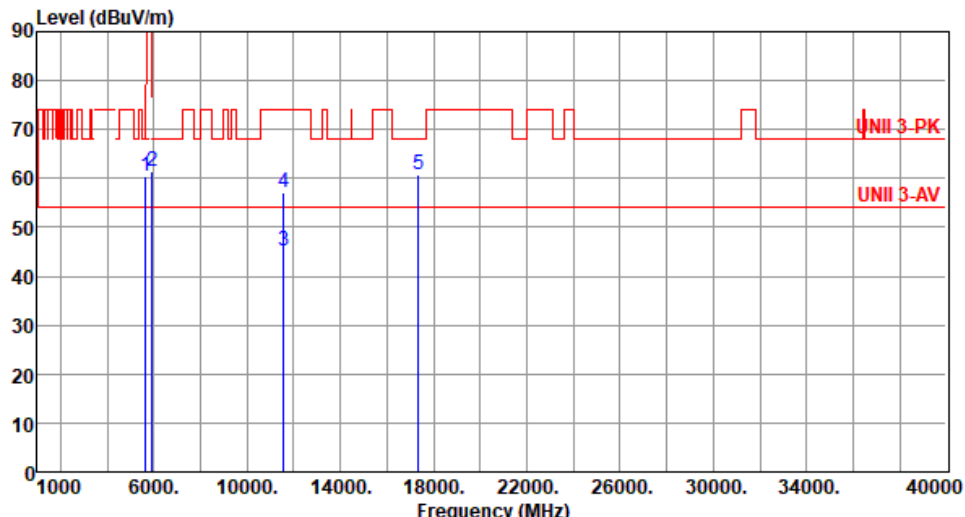
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

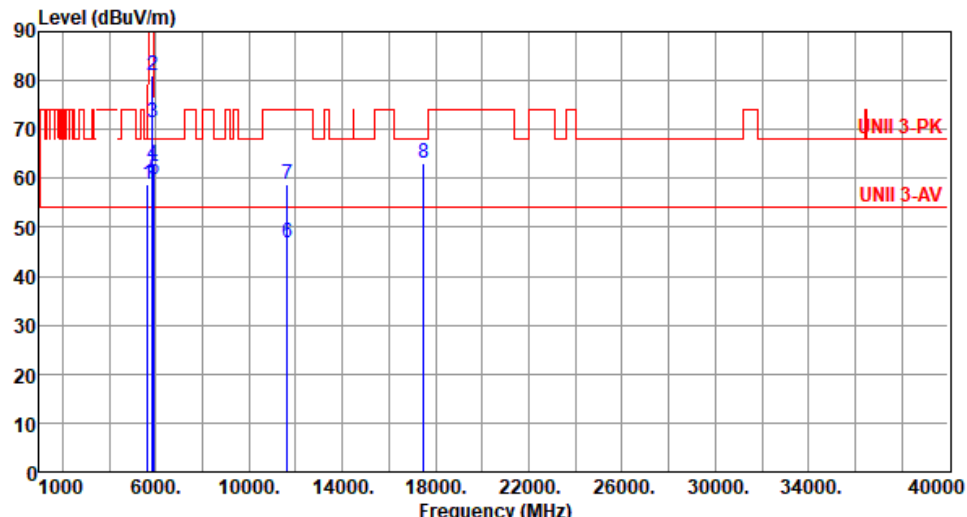
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m) </			

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5745																																																																																										
Polarization	Vertical																																																																																												
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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)	5785						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):23 Humidity(%):66									
Level (dBuV/m)  Frequency (MHz)									
	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	59.75	68.20	-8.45	54.94	4.81	Peak	265	255
2	5925.00	60.18	68.20	-8.02	54.57	5.61	Peak	265	255
3	11570.00	47.20	54.00	-6.80	32.95	14.25	Average	318	309
4	11570.00	59.12	74.00	-14.88	44.87	14.25	Peak	318	309
5	17355.00	62.86	68.20	-5.34	44.95	17.91	Peak	100	315

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).

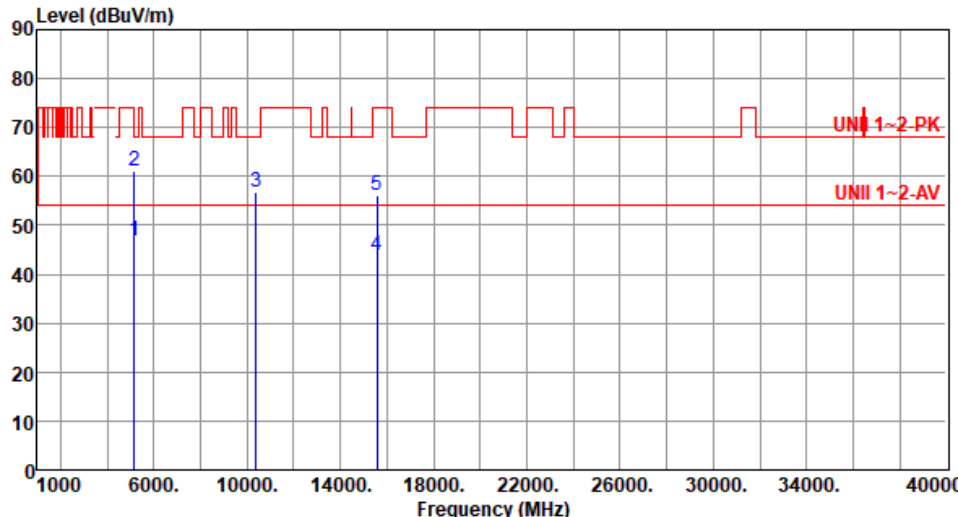
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5785																																																												
Polarization	Vertical																																																														
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																															
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>60.57</td><td>68.20</td><td>-7.63</td><td>55.76</td><td>4.81</td><td>Peak</td><td>159</td><td>285</td></tr><tr><td>2</td><td>5925.00</td><td>61.43</td><td>68.20</td><td>-6.77</td><td>55.82</td><td>5.61</td><td>Peak</td><td>159</td><td>285</td></tr><tr><td>3</td><td>11570.00</td><td>45.13</td><td>54.00</td><td>-8.87</td><td>30.88</td><td>14.25</td><td>Average</td><td>100</td><td>26</td></tr><tr><td>4</td><td>11570.00</td><td>57.12</td><td>74.00</td><td>-16.88</td><td>42.87</td><td>14.25</td><td>Peak</td><td>100</td><td>26</td></tr><tr><td>5</td><td>17355.00</td><td>60.79</td><td>68.20</td><td>-7.41</td><td>42.88</td><td>17.91</td><td>Peak</td><td>100</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	60.57	68.20	-7.63	55.76	4.81	Peak	159	285	2	5925.00	61.43	68.20	-6.77	55.82	5.61	Peak	159	285	3	11570.00	45.13	54.00	-8.87	30.88	14.25	Average	100	26	4	11570.00	57.12	74.00	-16.88	42.87	14.25	Peak	100	26	5	17355.00	60.79	68.20	-7.41	42.88	17.91	Peak	100	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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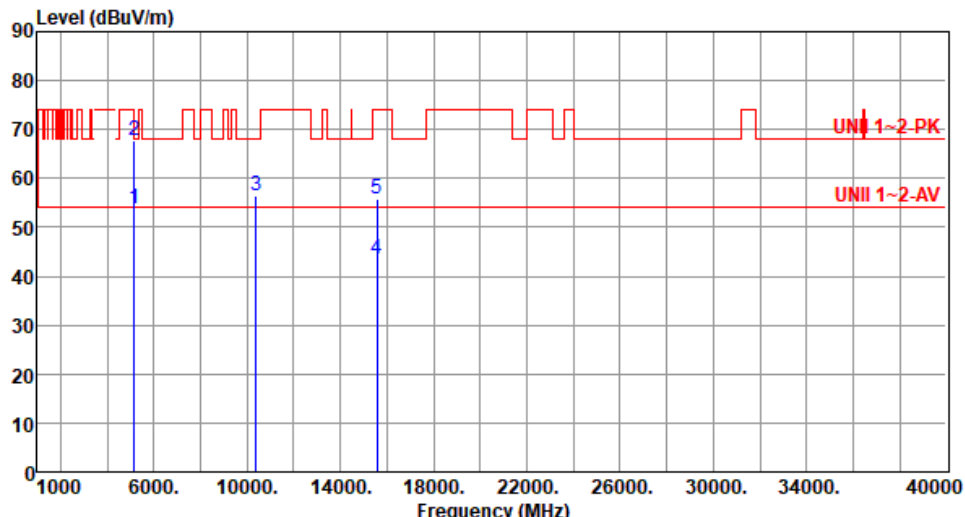
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):23 Humidity(%):66									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.78	68.20	-9.42	53.97	4.81	Peak	260	258
2	5850.00	81.13	122.20	-41.07	75.48	5.65	Peak	260	258
3	5855.00	71.48	110.80	-39.32	65.83	5.65	Peak	260	258
4	5875.00	62.60	105.20	-42.60	56.94	5.66	Peak	260	258
5	5925.00	59.76	68.20	-8.44	54.15	5.61	Peak	260	258
6	11650.00	46.66	54.00	-7.34	32.76	13.90	Average	310	305
7	11650.00	58.75	74.00	-15.25	44.85	13.90	Peak	310	305
8	17475.00	63.20	68.20	-5.00	44.65	18.55	Peak	100	309

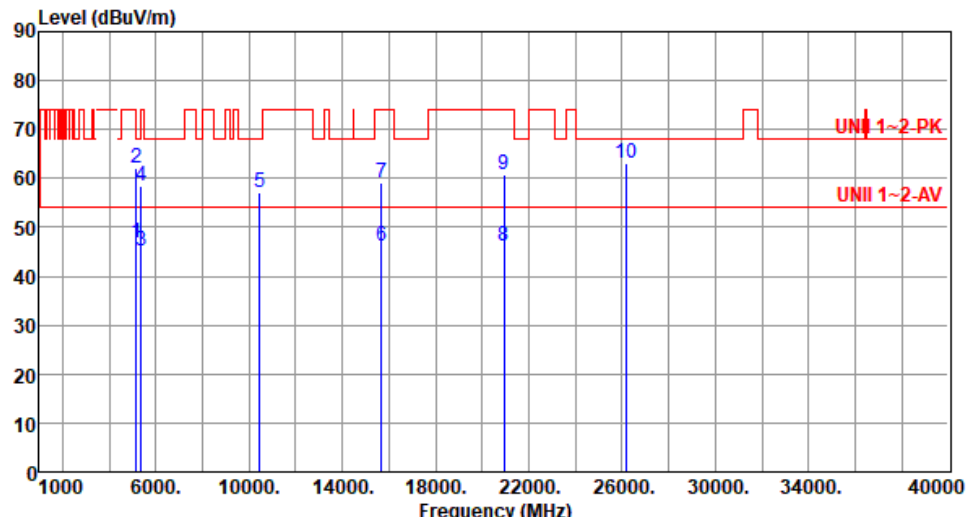
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5825
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m) </			

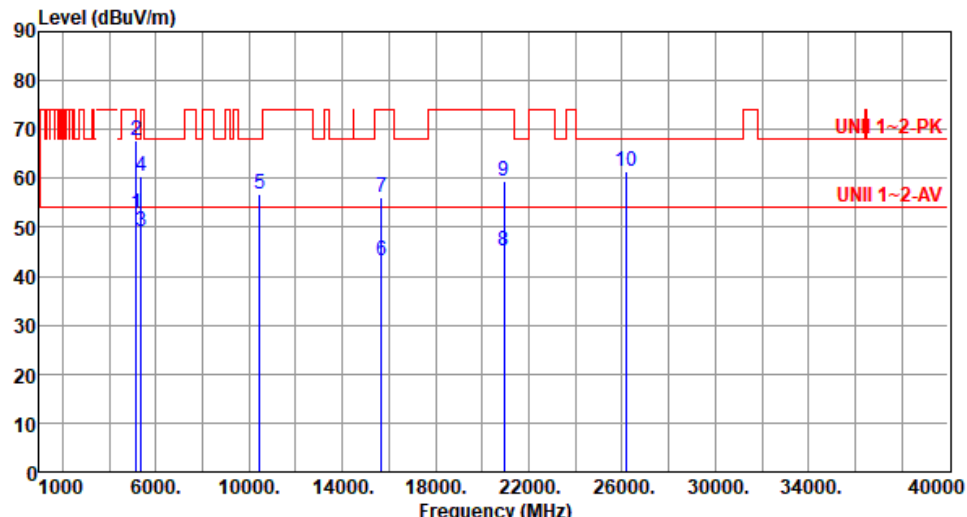
3.5.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE40-OFDMA

Modulation	ax HE40-OFDMA		Test Freq. (MHz)	5190																																																													
Polarization	Horizontal																																																																
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																	
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>46.88</td><td>54.00</td><td>-7.12</td><td>41.87</td><td>5.01</td><td>Average</td><td>100</td><td>276</td></tr><tr><td>2</td><td>5150.00</td><td>60.97</td><td>74.00</td><td>-13.03</td><td>55.96</td><td>5.01</td><td>Peak</td><td>100</td><td>276</td></tr><tr><td>3</td><td>10380.00</td><td>56.70</td><td>68.20</td><td>-11.50</td><td>42.43</td><td>14.27</td><td>Peak</td><td>100</td><td>90</td></tr><tr><td>4</td><td>15570.00</td><td>43.75</td><td>54.00</td><td>-10.25</td><td>30.27</td><td>13.48</td><td>Average</td><td>100</td><td>235</td></tr><tr><td>5</td><td>15570.00</td><td>56.06</td><td>74.00</td><td>-17.94</td><td>42.58</td><td>13.48</td><td>Peak</td><td>100</td><td>235</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	46.88	54.00	-7.12	41.87	5.01	Average	100	276	2	5150.00	60.97	74.00	-13.03	55.96	5.01	Peak	100	276	3	10380.00	56.70	68.20	-11.50	42.43	14.27	Peak	100	90	4	15570.00	43.75	54.00	-10.25	30.27	13.48	Average	100	235	5	15570.00	56.06	74.00	-17.94	42.58	13.48	Peak	100	235
	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	46.88	54.00	-7.12	41.87	5.01	Average	100	276																																																								
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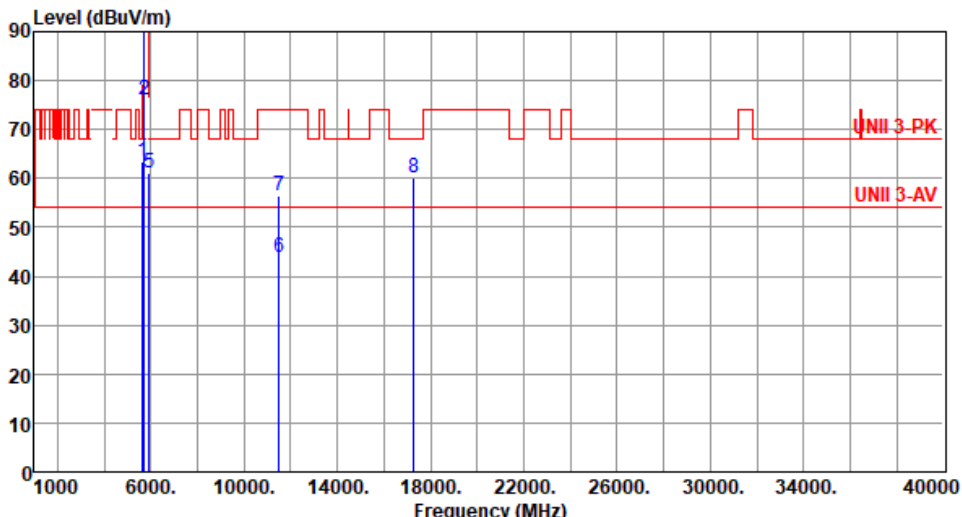
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5190																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																			
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></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>53.68</td><td>54.00</td><td>-0.32</td><td>48.67</td><td>5.01</td><td>Average</td><td>166</td><td>254</td></tr><tr><td>2</td><td>5150.00</td><td>67.68</td><td>74.00</td><td>-6.32</td><td>62.67</td><td>5.01</td><td>Peak</td><td>166</td><td>254</td></tr><tr><td>3</td><td>10380.00</td><td>56.52</td><td>68.20</td><td>-11.68</td><td>42.25</td><td>14.27</td><td>Peak</td><td>100</td><td>50</td></tr><tr><td>4</td><td>15570.00</td><td>43.64</td><td>54.00</td><td>-10.36</td><td>30.16</td><td>13.48</td><td>Average</td><td>100</td><td>90</td></tr><tr><td>5</td><td>15570.00</td><td>55.75</td><td>74.00</td><td>-18.25</td><td>42.27</td><td>13.48</td><td>Peak</td><td>100</td><td>90</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	53.68	54.00	-0.32	48.67	5.01	Average	166	254	2	5150.00	67.68	74.00	-6.32	62.67	5.01	Peak	166	254	3	10380.00	56.52	68.20	-11.68	42.25	14.27	Peak	100	50	4	15570.00	43.64	54.00	-10.36	30.16	13.48	Average	100	90	5	15570.00	55.75	74.00	-18.25	42.27	13.48	Peak	100	90
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																										
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																										
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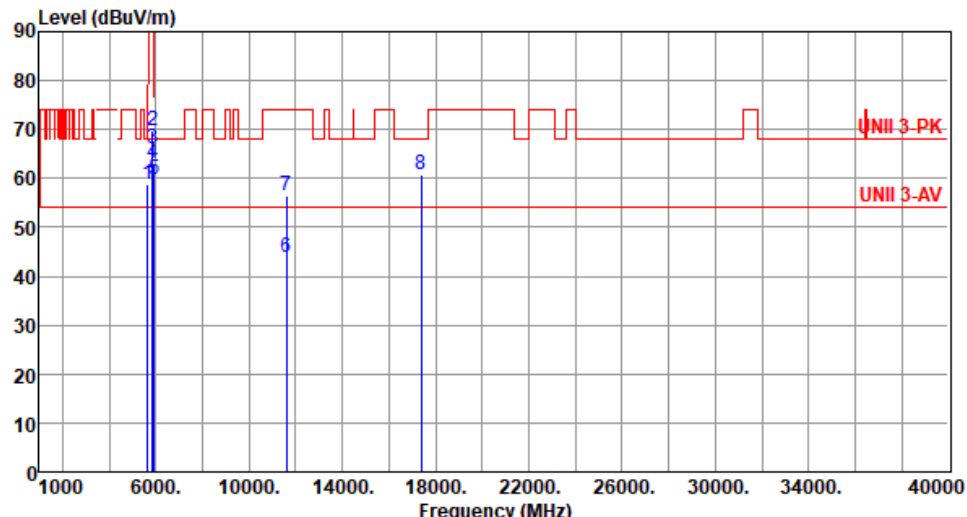
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5230						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):23 Humidity(%):66									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.71	54.00	-7.29	41.70	5.01	Average	100	272
2	5150.00	62.27	74.00	-11.73	57.26	5.01	Peak	100	272
3	5350.00	45.07	54.00	-8.93	40.65	4.42	Average	100	272
4	5350.00	58.53	74.00	-15.47	54.11	4.42	Peak	100	272
5	10460.00	56.98	68.20	-11.22	42.55	14.43	Peak	100	275
6	15690.00	46.15	54.00	-7.85	32.75	13.40	Average	205	236
7	15690.00	58.95	74.00	-15.05	45.55	13.40	Peak	205	236
8	20920.00	46.01	54.00	-7.99	40.60	5.41	Average	200	261
9	20920.00	60.71	74.00	-13.29	55.30	5.41	Peak	200	261
10	26150.00	63.08	68.20	-5.12	51.95	11.13	Peak	139	266

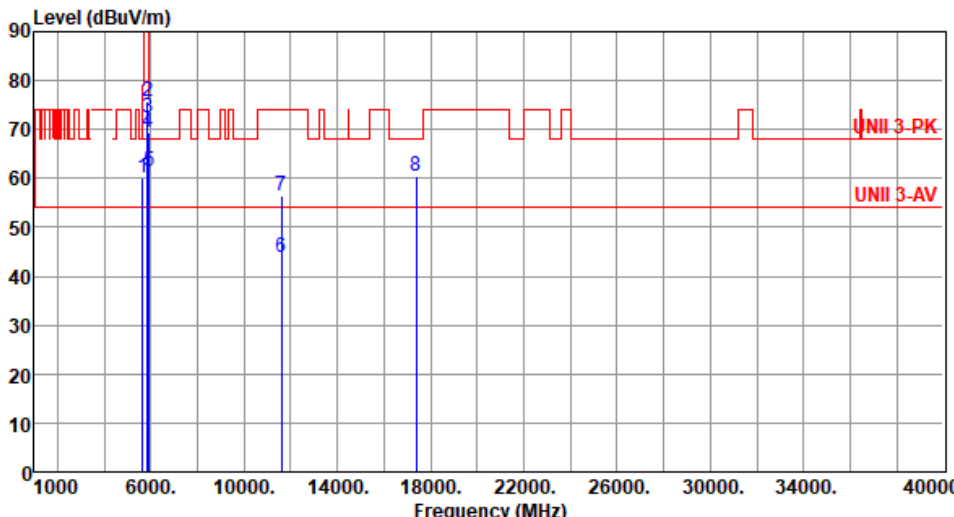
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5230																																																																																																																																		
Polarization	Vertical																																																																																																																																				
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																																																																					
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></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>52.82</td><td>54.00</td><td>-1.18</td><td>47.81</td><td>5.01</td><td>Average</td><td>184</td><td>253</td></tr><tr><td>2</td><td>5150.00</td><td>67.90</td><td>74.00</td><td>-6.10</td><td>62.89</td><td>5.01</td><td>Peak</td><td>184</td><td>253</td></tr><tr><td>3</td><td>5350.00</td><td>49.22</td><td>54.00</td><td>-4.78</td><td>44.80</td><td>4.42</td><td>Average</td><td>184</td><td>253</td></tr><tr><td>4</td><td>5350.00</td><td>60.40</td><td>74.00</td><td>-13.60</td><td>55.98</td><td>4.42</td><td>Peak</td><td>184</td><td>253</td></tr><tr><td>5</td><td>10460.00</td><td>56.75</td><td>68.20</td><td>-11.45</td><td>42.32</td><td>14.43</td><td>Peak</td><td>100</td><td>80</td></tr><tr><td>6</td><td>15690.00</td><td>43.28</td><td>54.00</td><td>-10.72</td><td>29.88</td><td>13.40</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>7</td><td>15690.00</td><td>56.08</td><td>74.00</td><td>-17.92</td><td>42.68</td><td>13.40</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>8</td><td>20920.00</td><td>45.01</td><td>54.00</td><td>-8.99</td><td>39.60</td><td>5.41</td><td>Average</td><td>100</td><td>70</td></tr><tr><td>9</td><td>20920.00</td><td>59.53</td><td>74.00</td><td>-14.47</td><td>54.12</td><td>5.41</td><td>Peak</td><td>100</td><td>70</td></tr><tr><td>10</td><td>26150.00</td><td>61.39</td><td>68.20</td><td>-6.81</td><td>50.26</td><td>11.13</td><td>Peak</td><td>100</td><td>50</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table						dBuV			cm	deg	1	5150.00	52.82	54.00	-1.18	47.81	5.01	Average	184	253	2	5150.00	67.90	74.00	-6.10	62.89	5.01	Peak	184	253	3	5350.00	49.22	54.00	-4.78	44.80	4.42	Average	184	253	4	5350.00	60.40	74.00	-13.60	55.98	4.42	Peak	184	253	5	10460.00	56.75	68.20	-11.45	42.32	14.43	Peak	100	80	6	15690.00	43.28	54.00	-10.72	29.88	13.40	Average	100	30	7	15690.00	56.08	74.00	-17.92	42.68	13.40	Peak	100	30	8	20920.00	45.01	54.00	-8.99	39.60	5.41	Average	100	70	9	20920.00	59.53	74.00	-14.47	54.12	5.41	Peak	100	70	10	26150.00	61.39	68.20	-6.81	50.26	11.13	Peak	100	50
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																												
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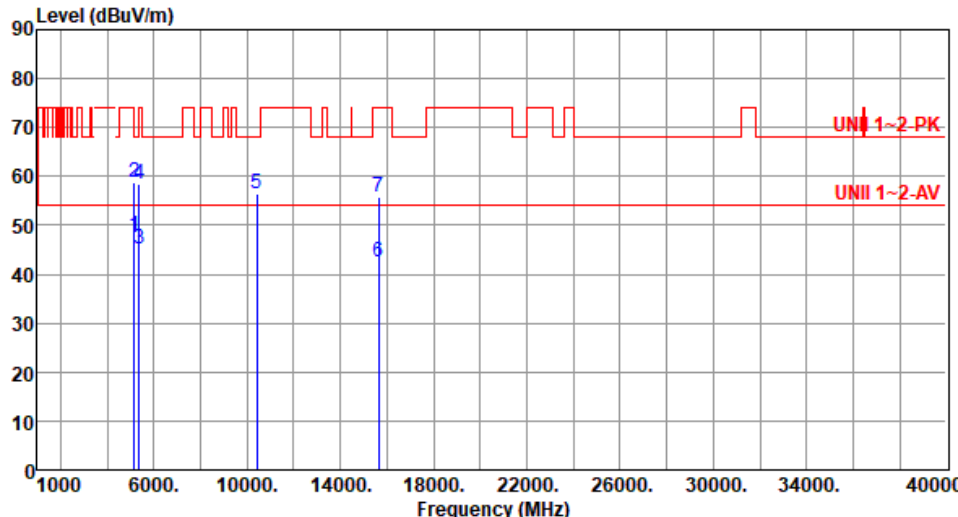
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5755
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m) <			

Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5755																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																													
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>63.43</td><td>68.20</td><td>-4.77</td><td>58.62</td><td>4.81</td><td>Peak</td><td>190</td><td>297</td></tr><tr><td>2</td><td>5700.00</td><td>75.98</td><td>105.20</td><td>-29.22</td><td>70.96</td><td>5.02</td><td>Peak</td><td>190</td><td>297</td></tr><tr><td>3</td><td>5720.00</td><td>89.77</td><td>110.80</td><td>-21.03</td><td>84.63</td><td>5.14</td><td>Peak</td><td>190</td><td>297</td></tr><tr><td>4</td><td>5725.00</td><td>94.13</td><td>122.20</td><td>-28.07</td><td>88.96</td><td>5.17</td><td>Peak</td><td>190</td><td>297</td></tr><tr><td>5</td><td>5925.00</td><td>61.11</td><td>68.20</td><td>-7.09</td><td>55.50</td><td>5.61</td><td>Peak</td><td>190</td><td>297</td></tr><tr><td>6</td><td>11510.00</td><td>43.98</td><td>54.00</td><td>-10.02</td><td>29.58</td><td>14.40</td><td>Average</td><td>100</td><td>60</td></tr><tr><td>7</td><td>11510.00</td><td>56.43</td><td>74.00</td><td>-17.57</td><td>42.03</td><td>14.40</td><td>Peak</td><td>100</td><td>60</td></tr><tr><td>8</td><td>17265.00</td><td>60.07</td><td>68.20</td><td>-8.13</td><td>42.57</td><td>17.50</td><td>Peak</td><td>100</td><td>90</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	63.43	68.20	-4.77	58.62	4.81	Peak	190	297	2	5700.00	75.98	105.20	-29.22	70.96	5.02	Peak	190	297	3	5720.00	89.77	110.80	-21.03	84.63	5.14	Peak	190	297	4	5725.00	94.13	122.20	-28.07	88.96	5.17	Peak	190	297	5	5925.00	61.11	68.20	-7.09	55.50	5.61	Peak	190	297	6	11510.00	43.98	54.00	-10.02	29.58	14.40	Average	100	60	7	11510.00	56.43	74.00	-17.57	42.03	14.40	Peak	100	60	8	17265.00	60.07	68.20	-8.13	42.57	17.50	Peak	100	90
	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	63.43	68.20	-4.77	58.62	4.81	Peak	190	297																																																																																				
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7	11510.00	56.43	74.00	-17.57	42.03	14.40	Peak	100	60																																																																																				
8	17265.00	60.07	68.20	-8.13	42.57	17.50	Peak	100	90																																																																																				

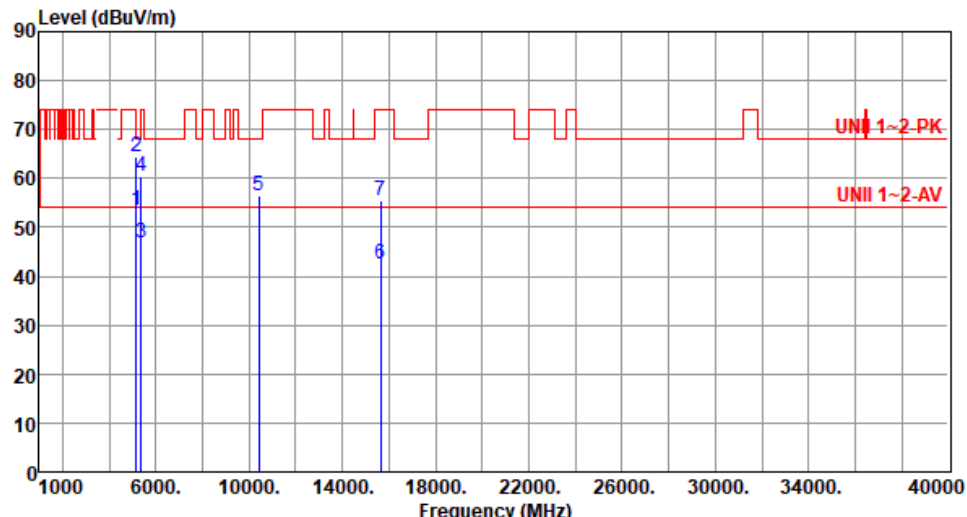
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5795																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																																																	
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>58.91</td><td>68.20</td><td>-9.29</td><td>54.10</td><td>4.81</td><td>Peak</td><td>266</td><td>255</td></tr><tr><td>2</td><td>5850.00</td><td>69.87</td><td>122.20</td><td>-52.33</td><td>64.22</td><td>5.65</td><td>Peak</td><td>266</td><td>255</td></tr><tr><td>3</td><td>5855.00</td><td>66.19</td><td>110.80</td><td>-44.61</td><td>60.54</td><td>5.65</td><td>Peak</td><td>266</td><td>255</td></tr><tr><td>4</td><td>5875.00</td><td>63.11</td><td>105.20</td><td>-42.09</td><td>57.45</td><td>5.66</td><td>Peak</td><td>266</td><td>255</td></tr><tr><td>5</td><td>5925.00</td><td>59.63</td><td>68.20</td><td>-8.57</td><td>54.02</td><td>5.61</td><td>Peak</td><td>266</td><td>255</td></tr><tr><td>6</td><td>11590.00</td><td>43.85</td><td>54.00</td><td>-10.15</td><td>29.66</td><td>14.19</td><td>Average</td><td>100</td><td>311</td></tr><tr><td>7</td><td>11590.00</td><td>56.49</td><td>74.00</td><td>-17.51</td><td>42.30</td><td>14.19</td><td>Peak</td><td>100</td><td>311</td></tr><tr><td>8</td><td>17385.00</td><td>60.72</td><td>68.20</td><td>-7.48</td><td>42.59</td><td>18.13</td><td>Peak</td><td>100</td><td>326</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	58.91	68.20	-9.29	54.10	4.81	Peak	266	255	2	5850.00	69.87	122.20	-52.33	64.22	5.65	Peak	266	255	3	5855.00	66.19	110.80	-44.61	60.54	5.65	Peak	266	255	4	5875.00	63.11	105.20	-42.09	57.45	5.66	Peak	266	255	5	5925.00	59.63	68.20	-8.57	54.02	5.61	Peak	266	255	6	11590.00	43.85	54.00	-10.15	29.66	14.19	Average	100	311	7	11590.00	56.49	74.00	-17.51	42.30	14.19	Peak	100	311	8	17385.00	60.72	68.20	-7.48	42.59	18.13	Peak	100	326
	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	58.91	68.20	-9.29	54.10	4.81	Peak	266	255																																																																																																								
2	5850.00	69.87	122.20	-52.33	64.22	5.65	Peak	266	255																																																																																																								
3	5855.00	66.19	110.80	-44.61	60.54	5.65	Peak	266	255																																																																																																								
4	5875.00	63.11	105.20	-42.09	57.45	5.66	Peak	266	255																																																																																																								
5	5925.00	59.63	68.20	-8.57	54.02	5.61	Peak	266	255																																																																																																								
6	11590.00	43.85	54.00	-10.15	29.66	14.19	Average	100	311																																																																																																								
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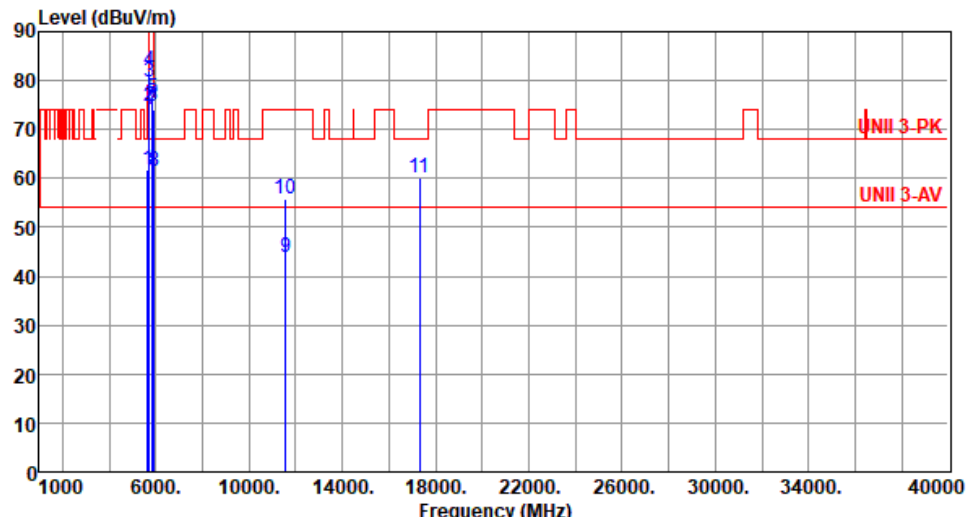
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5795																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																													
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>60.16</td><td>68.20</td><td>-8.04</td><td>55.35</td><td>4.81</td><td>Peak</td><td>188</td><td>302</td></tr><tr><td>2</td><td>5850.00</td><td>75.70</td><td>122.20</td><td>-46.50</td><td>70.05</td><td>5.65</td><td>Peak</td><td>188</td><td>302</td></tr><tr><td>3</td><td>5855.00</td><td>72.31</td><td>110.80</td><td>-38.49</td><td>66.66</td><td>5.65</td><td>Peak</td><td>188</td><td>302</td></tr><tr><td>4</td><td>5875.00</td><td>69.28</td><td>105.20</td><td>-35.92</td><td>63.62</td><td>5.66</td><td>Peak</td><td>188</td><td>302</td></tr><tr><td>5</td><td>5925.00</td><td>61.56</td><td>68.20</td><td>-6.64</td><td>55.95</td><td>5.61</td><td>Peak</td><td>188</td><td>302</td></tr><tr><td>6</td><td>11590.00</td><td>43.68</td><td>54.00</td><td>-10.32</td><td>29.49</td><td>14.19</td><td>Average</td><td>100</td><td>50</td></tr><tr><td>7</td><td>11590.00</td><td>56.36</td><td>74.00</td><td>-17.64</td><td>42.17</td><td>14.19</td><td>Peak</td><td>100</td><td>50</td></tr><tr><td>8</td><td>17385.00</td><td>60.46</td><td>68.20</td><td>-7.74</td><td>42.33</td><td>18.13</td><td>Peak</td><td>100</td><td>70</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	60.16	68.20	-8.04	55.35	4.81	Peak	188	302	2	5850.00	75.70	122.20	-46.50	70.05	5.65	Peak	188	302	3	5855.00	72.31	110.80	-38.49	66.66	5.65	Peak	188	302	4	5875.00	69.28	105.20	-35.92	63.62	5.66	Peak	188	302	5	5925.00	61.56	68.20	-6.64	55.95	5.61	Peak	188	302	6	11590.00	43.68	54.00	-10.32	29.49	14.19	Average	100	50	7	11590.00	56.36	74.00	-17.64	42.17	14.19	Peak	100	50	8	17385.00	60.46	68.20	-7.74	42.33	18.13	Peak	100	70
	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	60.16	68.20	-8.04	55.35	4.81	Peak	188	302																																																																																				
2	5850.00	75.70	122.20	-46.50	70.05	5.65	Peak	188	302																																																																																				
3	5855.00	72.31	110.80	-38.49	66.66	5.65	Peak	188	302																																																																																				
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5	5925.00	61.56	68.20	-6.64	55.95	5.61	Peak	188	302																																																																																				
6	11590.00	43.68	54.00	-10.32	29.49	14.19	Average	100	50																																																																																				
7	11590.00	56.36	74.00	-17.64	42.17	14.19	Peak	100	50																																																																																				
8	17385.00	60.46	68.20	-7.74	42.33	18.13	Peak	100	70																																																																																				

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

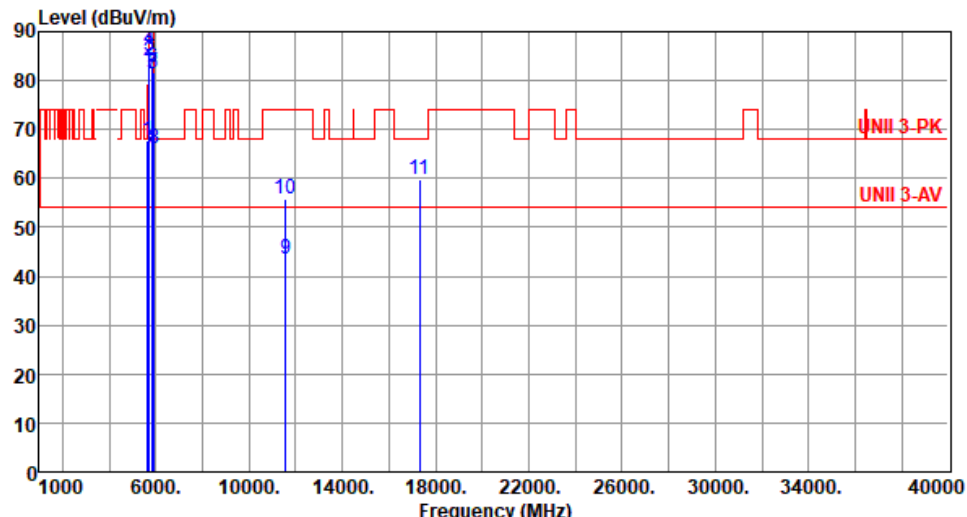
Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5210						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):23 Humidity(%):66									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.82	54.00	-6.18	42.81	5.01	Average	100	278
2	5150.00	58.90	74.00	-15.10	53.89	5.01	Peak	100	278
3	5350.00	45.28	54.00	-8.72	40.86	4.42	Average	100	278
4	5350.00	58.45	74.00	-15.55	54.03	4.42	Peak	100	278
5	10420.00	56.49	68.20	-11.71	42.13	14.36	Peak	100	60
6	15630.00	42.53	54.00	-11.47	29.18	13.35	Average	100	40
7	15630.00	55.66	74.00	-18.34	42.31	13.35	Peak	100	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).

Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5210																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																			
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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																																																																										
1	5150.00	53.51	54.00	-0.49	48.50	5.01	Average	153	248																																																																										
2	5150.00	64.57	74.00	-9.43	59.56	5.01	Peak	153	248																																																																										
3	5350.00	46.96	54.00	-7.04	42.54	4.42	Average	153	248																																																																										
4	5350.00	60.40	74.00	-13.60	55.98	4.42	Peak	153	248																																																																										
5	10420.00	56.39	68.20	-11.81	42.03	14.36	Peak	100	20																																																																										
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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 HE80-OFDMA	Test Freq. (MHz)	5775						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):23 Humidity(%):66									
Level (dBuV/m)  Frequency (MHz)									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5650.00	61.74	68.20	-6.46	56.93	4.81	Peak	263	261
2	5700.00	74.60	105.20	-30.60	69.58	5.02	Peak	263	261
3	5720.00	79.64	110.80	-31.16	74.50	5.14	Peak	263	261
4	5725.00	82.13	122.20	-40.07	76.96	5.17	Peak	263	261
5	5850.00	76.28	122.20	-45.92	70.63	5.65	Peak	263	261
6	5855.00	74.61	110.80	-36.19	68.96	5.65	Peak	263	261
7	5875.00	74.17	105.20	-31.03	68.51	5.66	Peak	263	261
8	5925.00	61.56	68.20	-6.64	55.95	5.61	Peak	263	261
9	11550.00	43.72	54.00	-10.28	29.42	14.30	Average	100	60
10	11550.00	55.95	74.00	-18.05	41.65	14.30	Peak	100	60
11	17325.00	60.00	68.20	-8.20	42.29	17.71	Peak	100	20

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 HE80-OFDMA	Test Freq. (MHz)	5775																																																																																																																								
Polarization	Vertical																																																																																																																										
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																																																											
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>67.75</td><td>68.20</td><td>-0.45</td><td>62.94</td><td>4.81</td><td>Peak</td><td>183</td><td>302</td></tr><tr><td>2</td><td>5700.00</td><td>83.87</td><td>105.20</td><td>-21.33</td><td>78.85</td><td>5.02</td><td>Peak</td><td>183</td><td>302</td></tr><tr><td>3</td><td>5720.00</td><td>85.10</td><td>110.80</td><td>-25.70</td><td>79.96</td><td>5.14</td><td>Peak</td><td>183</td><td>302</td></tr><tr><td>4</td><td>5725.00</td><td>86.47</td><td>122.20</td><td>-35.73</td><td>81.30</td><td>5.17</td><td>Peak</td><td>183</td><td>302</td></tr><tr><td>5</td><td>5850.00</td><td>81.31</td><td>122.20</td><td>-40.89</td><td>75.66</td><td>5.65</td><td>Peak</td><td>183</td><td>302</td></tr><tr><td>6</td><td>5855.00</td><td>82.61</td><td>110.80</td><td>-28.19</td><td>76.96</td><td>5.65</td><td>Peak</td><td>183</td><td>302</td></tr><tr><td>7</td><td>5875.00</td><td>81.53</td><td>105.20</td><td>-23.67</td><td>75.87</td><td>5.66</td><td>Peak</td><td>183</td><td>302</td></tr><tr><td>8</td><td>5925.00</td><td>65.94</td><td>68.20</td><td>-2.26</td><td>60.33</td><td>5.61</td><td>Peak</td><td>183</td><td>302</td></tr><tr><td>9</td><td>11550.00</td><td>43.51</td><td>54.00</td><td>-10.49</td><td>29.21</td><td>14.30</td><td>Average</td><td>100</td><td>40</td></tr><tr><td>10</td><td>11550.00</td><td>55.79</td><td>74.00</td><td>-18.21</td><td>41.49</td><td>14.30</td><td>Peak</td><td>100</td><td>40</td></tr><tr><td>11</td><td>17325.00</td><td>59.84</td><td>68.20</td><td>-8.36</td><td>42.13</td><td>17.71</td><td>Peak</td><td>100</td><td>80</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	5650.00	67.75	68.20	-0.45	62.94	4.81	Peak	183	302	2	5700.00	83.87	105.20	-21.33	78.85	5.02	Peak	183	302	3	5720.00	85.10	110.80	-25.70	79.96	5.14	Peak	183	302	4	5725.00	86.47	122.20	-35.73	81.30	5.17	Peak	183	302	5	5850.00	81.31	122.20	-40.89	75.66	5.65	Peak	183	302	6	5855.00	82.61	110.80	-28.19	76.96	5.65	Peak	183	302	7	5875.00	81.53	105.20	-23.67	75.87	5.66	Peak	183	302	8	5925.00	65.94	68.20	-2.26	60.33	5.61	Peak	183	302	9	11550.00	43.51	54.00	-10.49	29.21	14.30	Average	100	40	10	11550.00	55.79	74.00	-18.21	41.49	14.30	Peak	100	40	11	17325.00	59.84	68.20	-8.36	42.13	17.71	Peak	100	80
	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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7	5875.00	81.53	105.20	-23.67	75.87	5.66	Peak	183	302																																																																																																																		
8	5925.00	65.94	68.20	-2.26	60.33	5.61	Peak	183	302																																																																																																																		
9	11550.00	43.51	54.00	-10.49	29.21	14.30	Average	100	40																																																																																																																		
10	11550.00	55.79	74.00	-18.21	41.49	14.30	Peak	100	40																																																																																																																		
11	17325.00	59.84	68.20	-8.36	42.13	17.71	Peak	100	80																																																																																																																		
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).																																																																																																																											

3.6 Frequency Stability

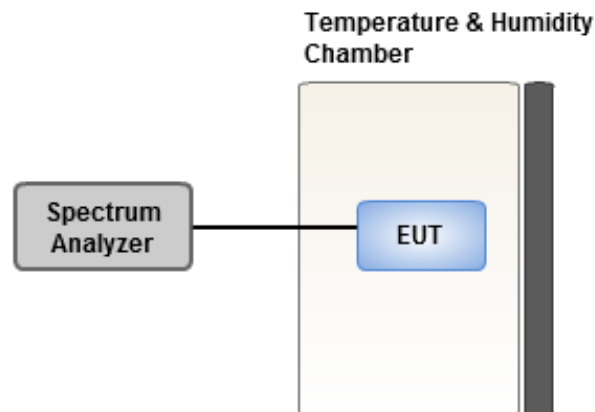
3.6.1 Limit of Frequency Stability

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	20~22°C / 65~67%	Tested By	Aska Huang
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Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	0.24	0.92	0.25	0.70
T20°C Vmin	1.13	0.73	-0.01	0.93
T50°C Vnom	1.41	1.11	0.77	0.55
T40°C Vnom	-0.04	-0.29	-0.04	-0.07
T30°C Vnom	0.50	-0.41	0.08	0.19
T20°C Vnom	0.64	0.14	0.12	0.20
T10°C Vnom	1.68	2.19	2.12	2.17
T0°C Vnom	2.93	4.36	4.05	3.20
T-10°C Vnom	5.59	5.75	5.67	5.97
T-20°C Vnom	7.94	7.59	7.37	7.74
T-30°C Vnom	9.77	9.25	9.26	9.38
Vnom [V]: 120		Vmax [V]: 138		Vmin [V]: 102
Tnom [°C]: 20		Tmax [°C]: 50		Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	-1.36	-0.84	-1.32	-1.27
T20°C Vmin	-1.49	-1.03	-1.49	-0.75
T50°C Vnom	-6.82	-6.78	-6.80	-6.73
T40°C Vnom	-6.75	-6.56	-6.95	-6.09
T30°C Vnom	-3.16	-3.47	-2.77	-2.75
T20°C Vnom	-1.78	-1.74	-1.48	-1.40
T10°C Vnom	0.31	0.83	0.38	0.68
T0°C Vnom	1.39	1.14	0.93	1.48
T-10°C Vnom	3.70	4.06	4.05	4.30
T-20°C Vnom	5.52	5.85	5.60	5.96
T-30°C Vnom	7.11	7.08	7.07	7.19
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 50		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>.

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St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

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

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