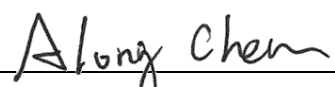


FCC C2PC Test Report

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

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

Reviewed by:


Along Chen / Assistant Manager

Approved by:

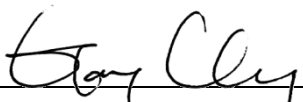

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR1O1201-01AN	Rev. 01	Initial issue	Dec. 21, 2021

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.466MHz 35.09 (Margin -11.49dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5470.00MHz 67.04 (Margin -1.16dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5250~5350MHz: 17.15 5470~5725MHz: 23.51	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

This is a Class II Permissive Change report (C2PC). The modification is concerned with following items:

- Adding 5250~5350MHz and 5470~5725 MHz band by software setting.

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information (5250~5350MHz)					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5250-5350	a	5260-5320	52-64 [4]	2	6-54 Mbps
5250-5350	n (HT20)	5260-5320	52-64 [4]	2	MCS 0-15
5250-5350	n (HT40)	5270-5310	54-62 [2]	2	MCS 0-15
5250-5350	ac (VHT20)	5260-5320	52-64 [4]	2	MCS 0-9
5250-5350	ac (VHT40)	5270-5310	54-62 [2]	2	MCS 0-9
5250-5350	ac (VHT80)	5290	58 [1]	2	MCS 0-9
5250-5350	ax (HE20)	5260-5320	52-64 [4]	2	MCS 0-11
5250-5350	ax (HE40)	5270-5310	54-62 [2]	2	MCS 0-11
5250-5350	ax (HE80)	5290	58 [1]	2	MCS 0-11
RF General Information (5470~5725MHz)					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5470-5725	a	5500-5700	100-140 [11]	4	6-54 Mbps
5470-5725	n (HT20)	5500-5700	100-140 [11]	4	MCS 0-31
5470-5725	n (HT40)	5510-5670	102-134 [5]	4	MCS 0-31
5470-5725	ac (VHT20)	5500-5700	100-140 [11]	4	MCS 0-9
5470-5725	ac (VHT40)	5510-5670	102-134 [5]	4	MCS 0-9
5470-5725	ac (VHT80)	5530-5610	106-122 [2]	4	MCS 0-9
5470-5725	ac (VHT160)	5570	114[1]	4	MCS 0-9
5470-5725	ax (HE20)	5500-5700	100-140 [11]	4	MCS 0-11
5470-5725	ax (HE40)	5510-5670	102-134 [5]	4	MCS 0-11
5470-5725	ax (HE80)	5530-5610	106-122 [2]	4	MCS 0-11
5470-5725	ax (HE160)	5570	114[1]	4	MCS 0-11
Note: OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.					

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)	
				5250~5350	5470~5725
1	ANT3	Dipole	N type	5.2	--
2	ANT1	Dipole	N type	5.6	--
3	ANT6	Dipole	N type	--	5.3
4	ANT2	Dipole	N type	--	5.1
5	ANT5	Dipole	N type	--	5.4
6	ANT4	Dipole	N type	--	5.7

1.1.3 Radio Details

Radio	Function
1	5.15 GHz ~ 5.35 GHz, 2T2R
2	5.47 GHz ~ 5.85 GHz, 4T4R
3	2.4 GHz, 2T2R

1.1.4 Power Supply Type of Equipment under Test (EUT)

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

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

1.1.5 Accessories

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

1.1.6 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
52	5260	54	5270
56	5280	62	5310
60	5300	102	5510
64	5320	110	5550
100	5500	118	5590
104	5520	126	5630
108	5540	134	5670
112	5560	802.11ac VHT80 / ax HE80	
116	5580	58	5290
120	5600	106	5530
124	5620	122	5610
128	5640	802.11ac VHT160 / ax HE160	
132	5660	114	5570
136	5680	--	--
140	5700	--	--

1.1.7 Test Tool and Duty Cycle

Test Tool	QPSR, V5.0-00199		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	93.01%	0.31
	ax (HE20)-OFDMA	97.41%	0.11
	ax (HE40)-OFDMA	97.41%	0.11
	ax (HE80)-OFDMA	73.28%	1.35
	ax (HE160)-OFDMA	38.84%	4.11

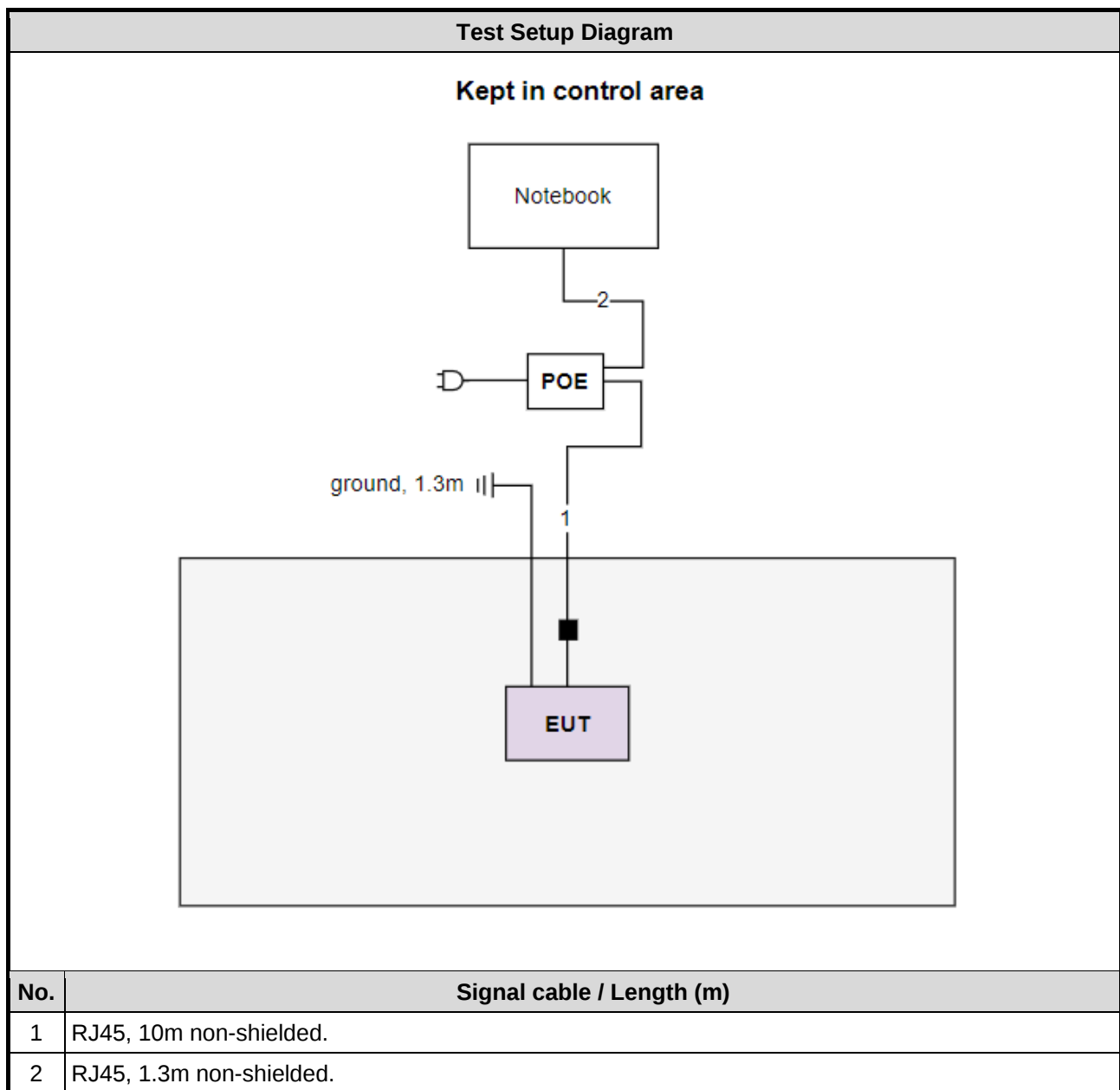
1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5260	15
11a	5300	15
11a	5320	15
11a	5500	12.5
11a	5580	12
11a	5700	13.5
ax (HE20)-OFDMA	5260	15
ax (HE20)-OFDMA	5300	15
ax (HE20)-OFDMA	5320	15
ax (HE20)-OFDMA	5500	13
ax (HE20)-OFDMA	5580	12.5
ax (HE20)-OFDMA	5700	14
ax (HE40)-OFDMA	5270	15
ax (HE40)-OFDMA	5310	15
ax (HE40)-OFDMA	5510	15.5
ax (HE40)-OFDMA	5590	15.5
ax (HE40)-OFDMA	5670	16.5
ax (HE80)-OFDMA	5290	15
ax (HE80)-OFDMA	5530	15.5
ax (HE80)-OFDMA	5610	17.5
ax (HE160)-OFDMA	5570	12

1.2 Local Support Equipment List

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

1.3 Test Setup Chart



1.4 The Equipment List

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

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

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

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

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

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

2 Test Configuration

2.1 Testing Facility

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

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

2.2 The Worst Test Modes and Channel Details

Frequency band 5250~5350MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Non-beamforming mode				
Conducted Emissions Radiated Emissions ≤1GHz	11a	5300	6 Mbps	---
RF Output Power Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a ax HE20-OFDMA ax HE40-OFDMA ax HE80-OFDMA	5260 / 5300 / 5320 5260 / 5300 / 5320 5270 / 5310 5290	6 Mbps MCS 0 MCS 0 MCS 0	---
Frequency Stability	Un-modulation	5300	---	---
Beamforming mode				
RF Output Power	11a ax HE20-OFDMA ax HE40-OFDMA ax HE80-OFDMA	5260 / 5300 / 5320 5260 / 5300 / 5320 5270 / 5310 5290	6 Mbps MCS 0 MCS 0 MCS 0	---

Frequency band 5470~5725MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Non-beamforming mode				
Conducted Emissions Radiated Emissions ≤1GHz	ax HE80-OFDMA	5610	MCS 0	---
RF Output Power Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a ax HE20-OFDMA ax HE40-OFDMA ax HE80-OFDMA ax HE160-OFDMA	5500 / 5580 / 5700 5500 / 5580 / 5700 5510 / 5590 / 5670 5530 / 5610 5570	6 Mbps MCS 0 MCS 0 MCS 0 MCS 0	---
Frequency Stability	Un-modulation	5580	---	---
Beamforming mode				
RF Output Power	11a ax HE20-OFDMA ax HE40-OFDMA ax HE80-OFDMA ax HE160-OFDMA	5500 / 5580 / 5700 5500 / 5580 / 5700 5510 / 5590 / 5670 5530 / 5610 5570	6 Mbps MCS 0 MCS 0 MCS 0 MCS 0	---

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

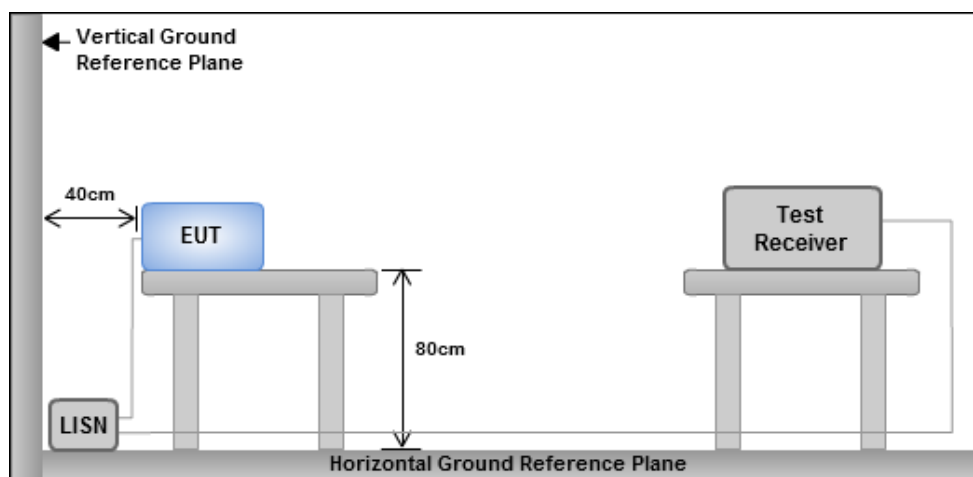
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 Test Procedures

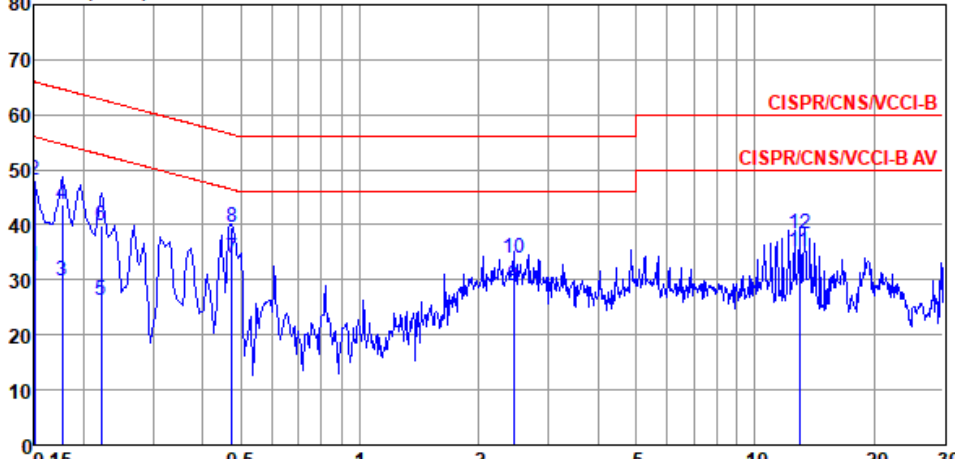
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels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

3.1.3 Test Setup



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

3.1.4 Test Result of Conducted Emissions

Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5610						
Power Phase	Line								
Test by : Brad Wu Temperature: 22°C Humidity: 62%									
Level (dBuV)  Frequency (MHz)									
	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark
	MHz	dBuV	dBuV	dB	Level	dB	loss	dB	
1	0.150	32.36	56.00	-23.64	22.62	9.66	0.08	0.00	Average
2	0.150	48.00	66.00	-18.00	38.26	9.66	0.08	0.00	QP
3	0.177	29.69	54.64	-24.95	19.96	9.65	0.08	0.00	Average
4	0.177	43.84	64.64	-20.80	34.11	9.65	0.08	0.00	QP
5	0.222	26.29	52.74	-26.45	16.56	9.65	0.08	0.00	Average
6	0.222	39.97	62.74	-22.77	30.24	9.65	0.08	0.00	QP
7*	0.474	33.85	46.45	-12.60	24.12	9.64	0.09	0.00	Average
8	0.474	39.51	56.45	-16.94	29.78	9.64	0.09	0.00	QP
9	2.448	28.81	46.00	-17.19	18.95	9.66	0.20	0.00	Average
10	2.448	34.05	56.00	-21.95	24.19	9.66	0.20	0.00	QP
11	12.970	35.07	50.00	-14.93	24.85	9.70	0.52	0.00	Average
12	12.970	38.44	60.00	-21.56	28.22	9.70	0.52	0.00	QP

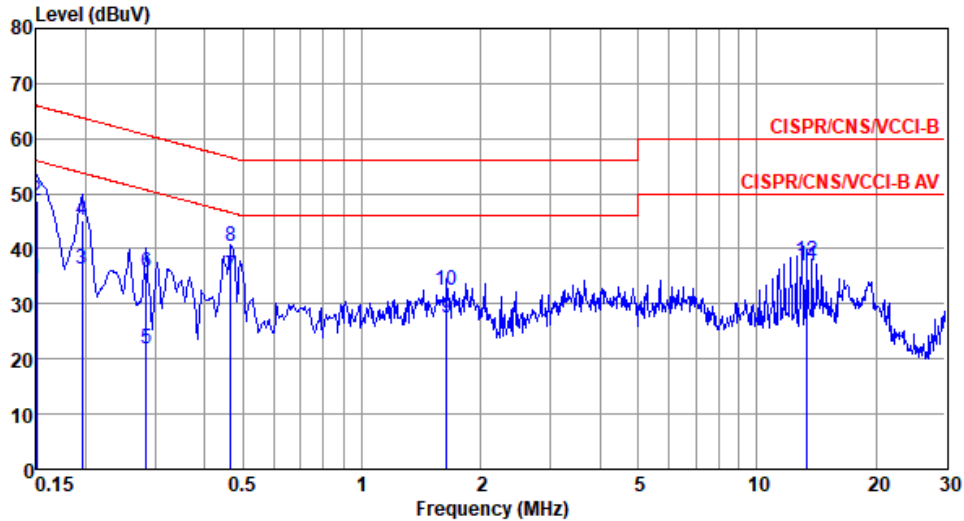
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5610
Power Phase	Neutral		

Test by : Brad Wu

Temperature: 22°C

Humidity: 62%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	34.42	56.00	-21.58	24.65	9.69	0.08	0.00	Average
2	0.150	48.83	66.00	-17.17	39.06	9.69	0.08	0.00	QP
3	0.195	36.23	53.80	-17.57	26.47	9.68	0.08	0.00	Average
4	0.195	45.04	63.80	-18.76	35.28	9.68	0.08	0.00	QP
5	0.285	21.70	50.68	-28.98	11.95	9.67	0.08	0.00	Average
6	0.285	35.78	60.68	-24.90	26.03	9.67	0.08	0.00	QP
7*	0.466	35.09	46.58	-11.49	25.33	9.67	0.09	0.00	Average
8	0.466	40.48	56.58	-16.10	30.72	9.67	0.09	0.00	QP
9	1.636	27.45	46.00	-18.55	17.57	9.69	0.19	0.00	Average
10	1.636	32.44	56.00	-23.56	22.56	9.69	0.19	0.00	QP
11	13.380	36.77	50.00	-13.23	26.45	9.79	0.53	0.00	Average
12	13.380	37.70	60.00	-22.30	27.38	9.79	0.53	0.00	QP

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

3.2 Emission Bandwidth

3.2.1 Test Procedures

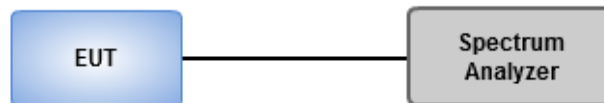
26dB Bandwidth

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.

3.2.2 Test Setup



3.2.3 Test Result of Emission Bandwidth

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.797M	16.425M	16M4D1D	19.928M	16.353M
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	20.87M	18.813M	18M8D1D	20.435M	18.741M
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	40.58M	37.627M	37M6D1D	39.71M	37.482M
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	82.319M	77.279M	77M3D1D	81.739M	76.99M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.145M	16.57M	16M6D1D	19.275M	16.498M
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	22.029M	18.886M	18M9D1D	21.304M	18.813M
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	43.043M	37.916M	37M9D1D	42.029M	37.627M
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	82.319M	77.569M	77M6D1D	81.159M	76.99M
802.11ax HEW160_Nss1,(MCS0)_4TX -OFDMA	176.232M	157.453M	157MD1D	171.014M	157.453M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.507M	16.353M	20.507M	16.353M	-	-	-	-
5300MHz	Pass	Inf	20.725M	16.353M	20.797M	16.353M	-	-	-	-
5320MHz	Pass	Inf	19.928M	16.353M	20.29M	16.425M	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	Inf	20.145M	16.57M	19.71M	16.57M	19.71M	16.57M	19.493M	16.57M
5580MHz	Pass	Inf	20M	16.498M	20M	16.57M	19.783M	16.57M	20M	16.498M
5700MHz	Pass	Inf	19.855M	16.498M	19.855M	16.57M	20M	16.57M	19.275M	16.498M
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.435M	18.741M	20.87M	18.741M	-	-	-	-
5300MHz	Pass	Inf	20.435M	18.741M	20.797M	18.813M	-	-	-	-
5320MHz	Pass	Inf	20.58M	18.741M	20.507M	18.741M	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	Inf	21.594M	18.813M	21.957M	18.813M	21.667M	18.813M	22.029M	18.813M
5580MHz	Pass	Inf	21.884M	18.813M	21.667M	18.886M	21.304M	18.813M	21.667M	18.813M
5700MHz	Pass	Inf	21.522M	18.886M	21.957M	18.813M	21.449M	18.886M	21.304M	18.813M
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	39.855M	37.482M	39.71M	37.482M	-	-	-	-
5310MHz	Pass	Inf	39.71M	37.627M	40.58M	37.627M	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	Inf	42.899M	37.771M	42.754M	37.771M	42.609M	37.771M	42.609M	37.771M
5590MHz	Pass	Inf	42.609M	37.771M	42.029M	37.627M	42.319M	37.771M	42.609M	37.627M
5670MHz	Pass	Inf	43.043M	37.771M	43.043M	37.916M	42.464M	37.771M	42.174M	37.627M
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	82.319M	77.279M	81.739M	76.99M	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	Inf	82.319M	76.99M	81.739M	76.99M	81.159M	76.99M	82.029M	76.99M
5610MHz	Pass	Inf	82.319M	77.569M	82.029M	76.99M	81.449M	76.99M	82.029M	76.99M
802.11ax	-	-	-	-	-	-	-	-	-	-

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)
HEW160_Nss1,(MCS0)_4TX -OFDMA										
5570MHz	Pass	Inf	176.232M	157.453M	171.594M	157.453M	176.232M	157.453M	171.014M	157.453M

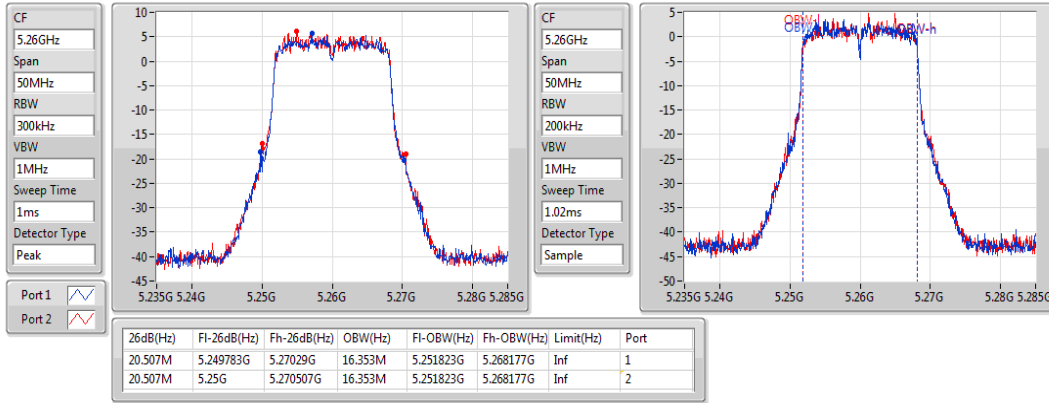
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11a_Nss1,(6Mbps)_2TX

EBW

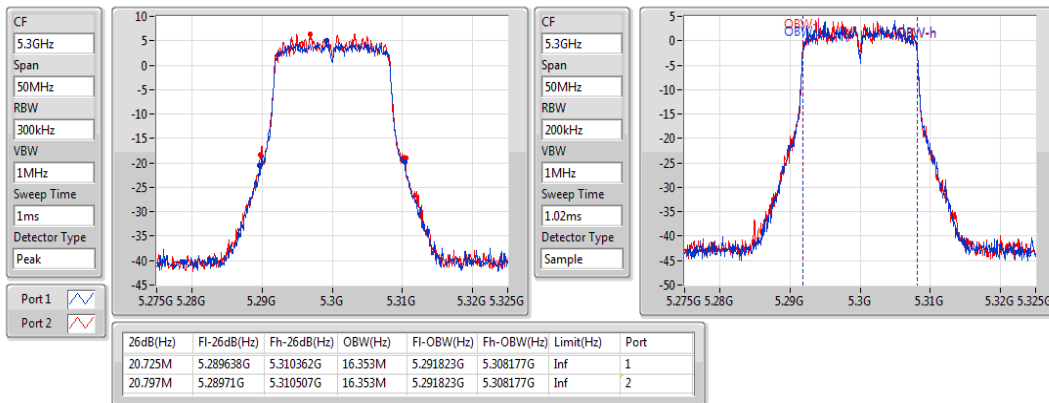
5260MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

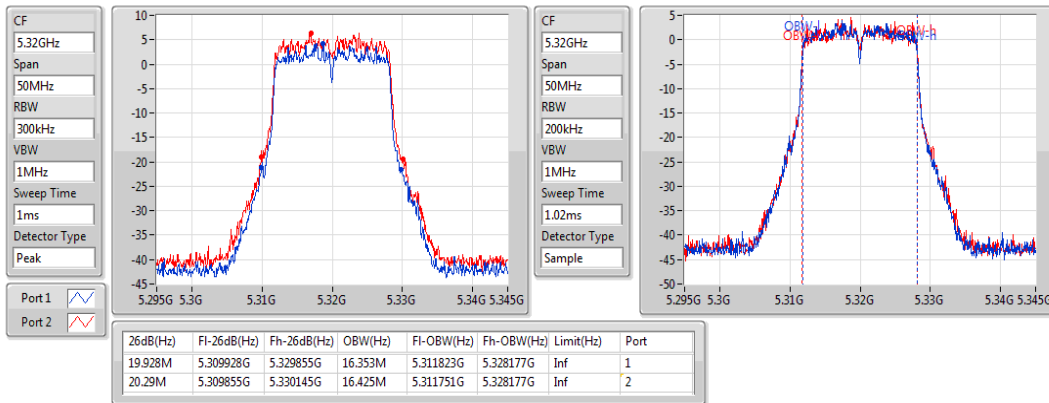
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802.11a_Nss1,(6Mbps)_2TX

EBW

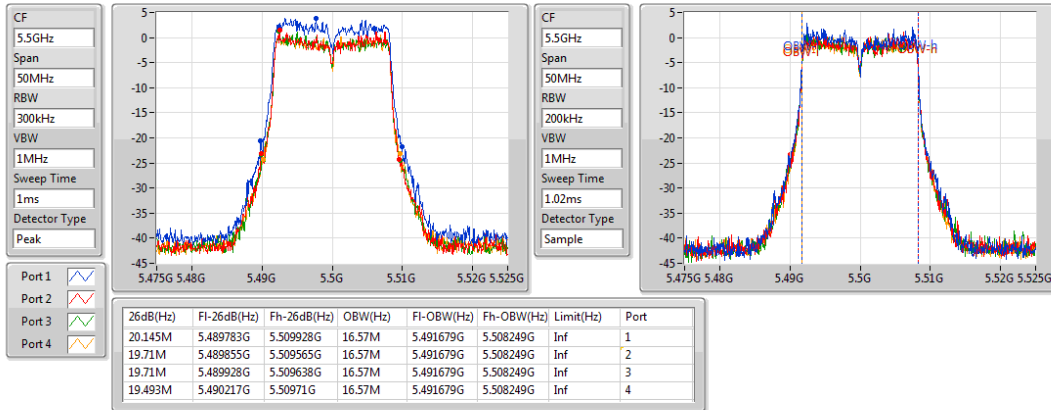
5320MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

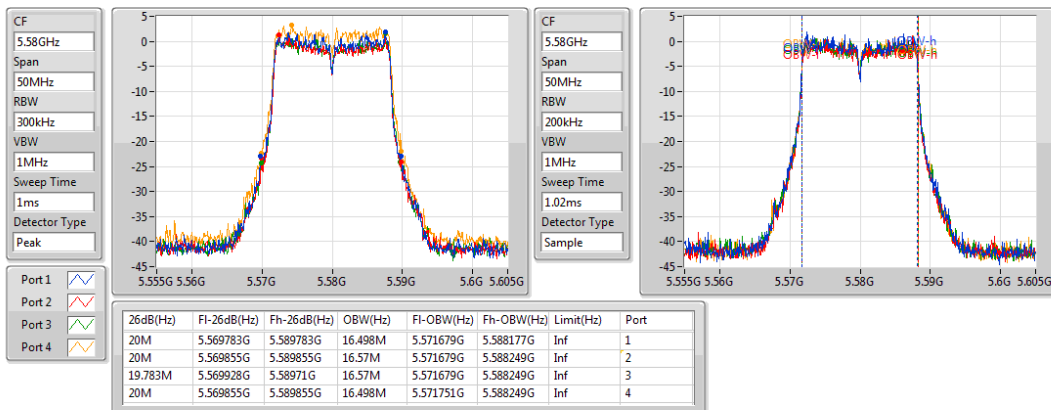
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802.11a_Nss1,(6Mbps)_4TX

EBW

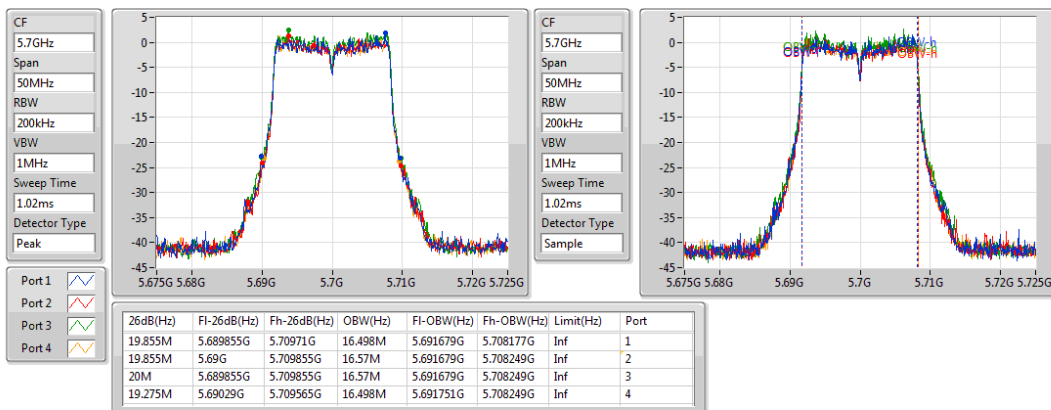
5580MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

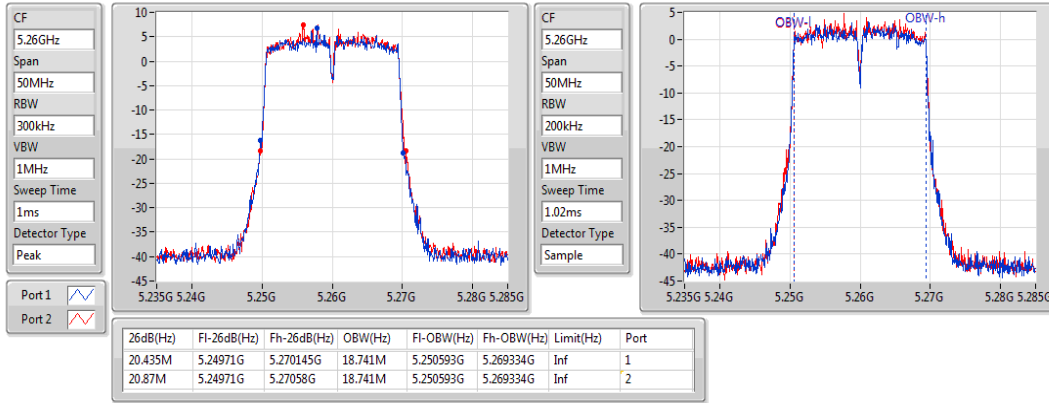
5700MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

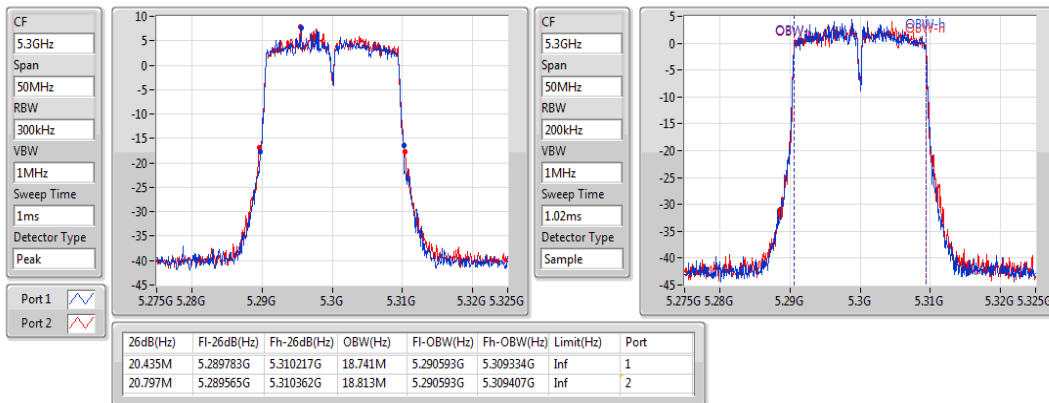
5260MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

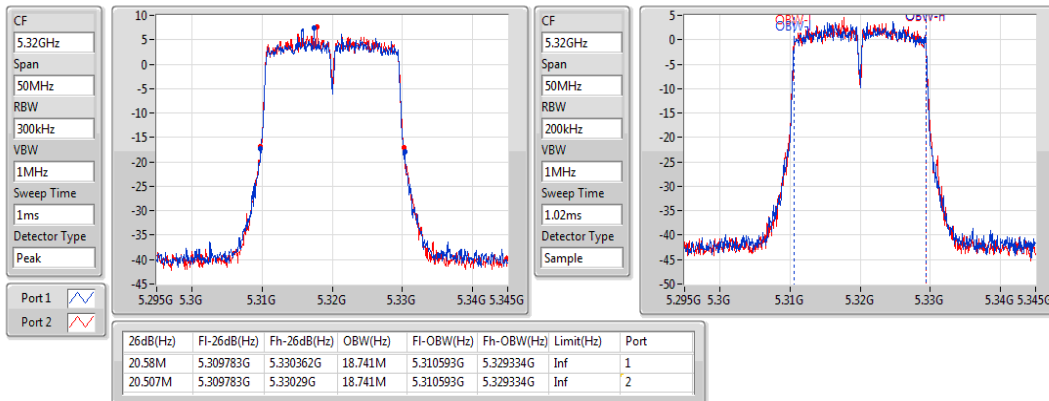
5300MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

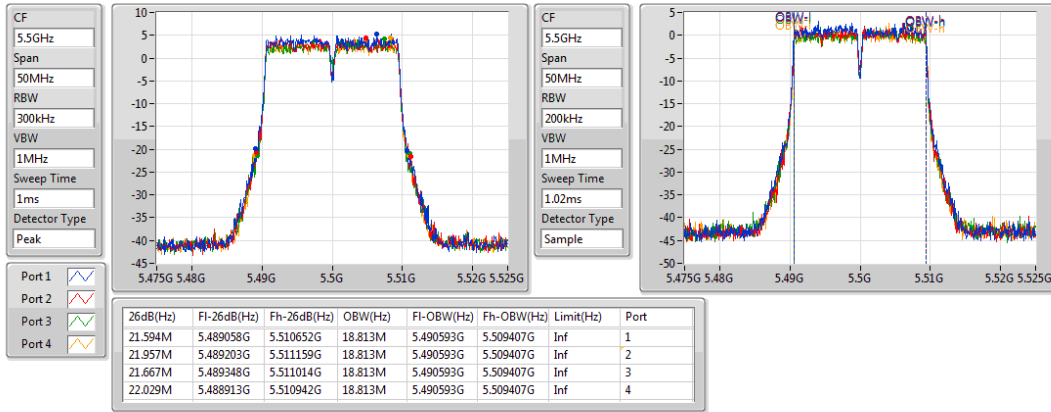
5320MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

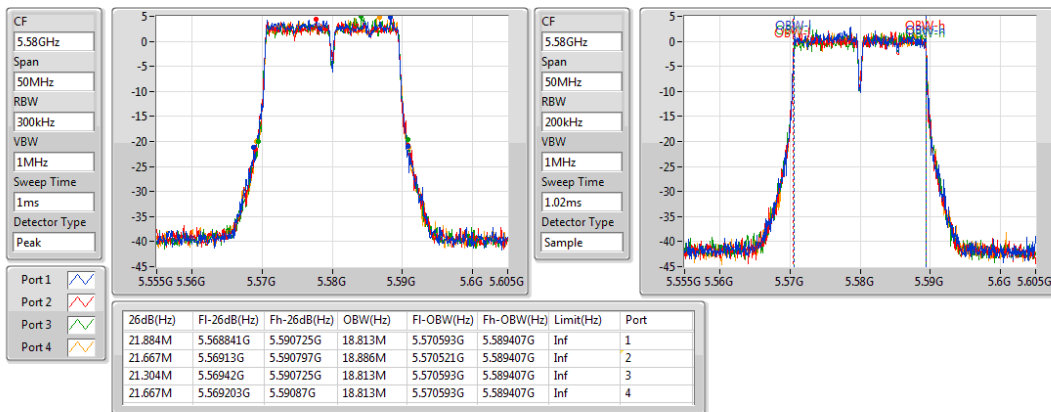
5500MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

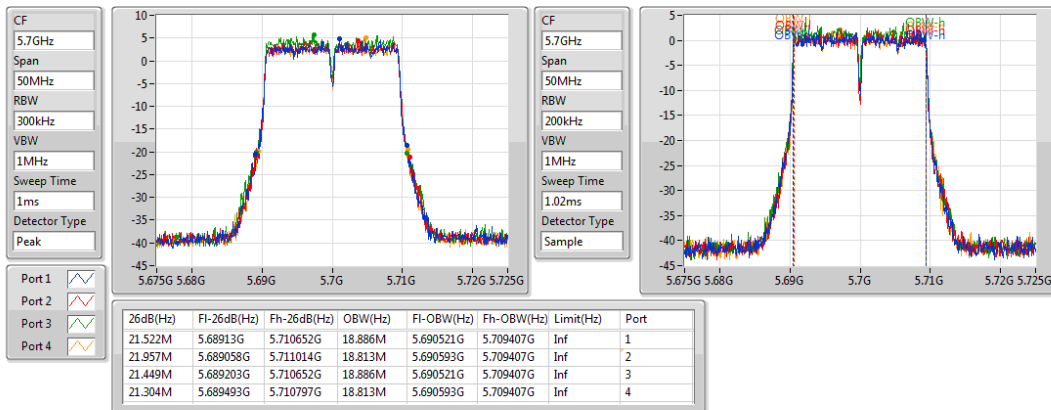
5580MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

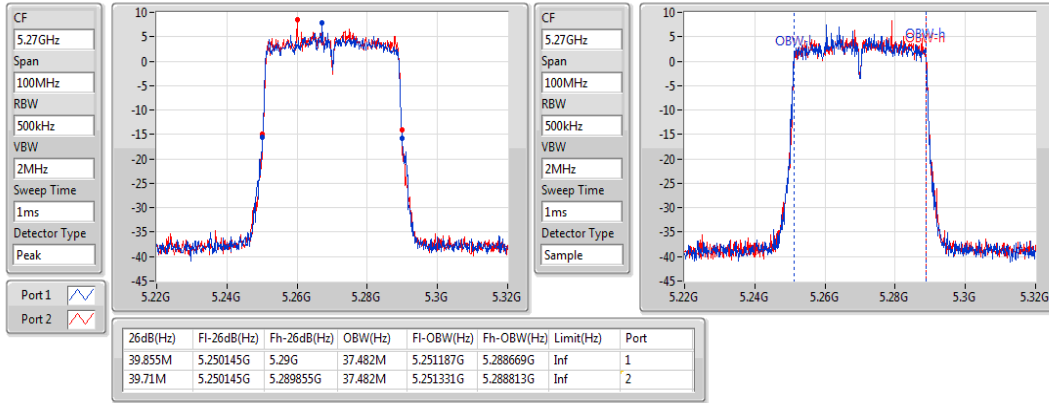
5700MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

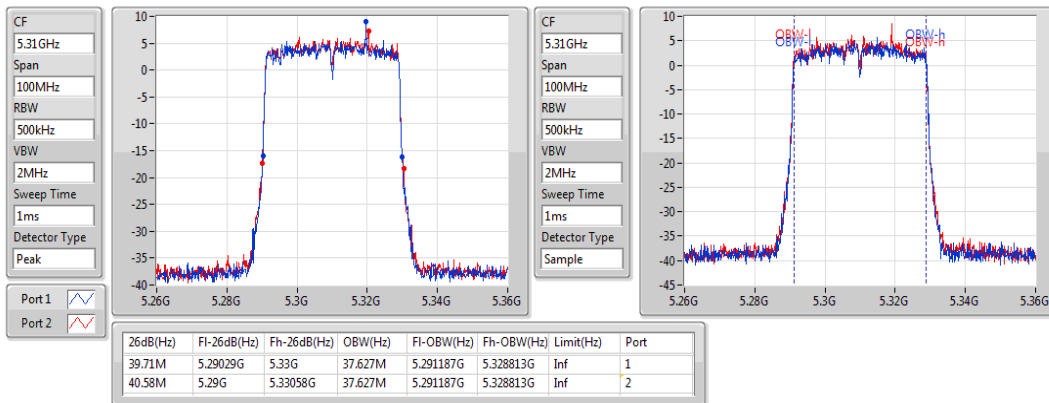
5270MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

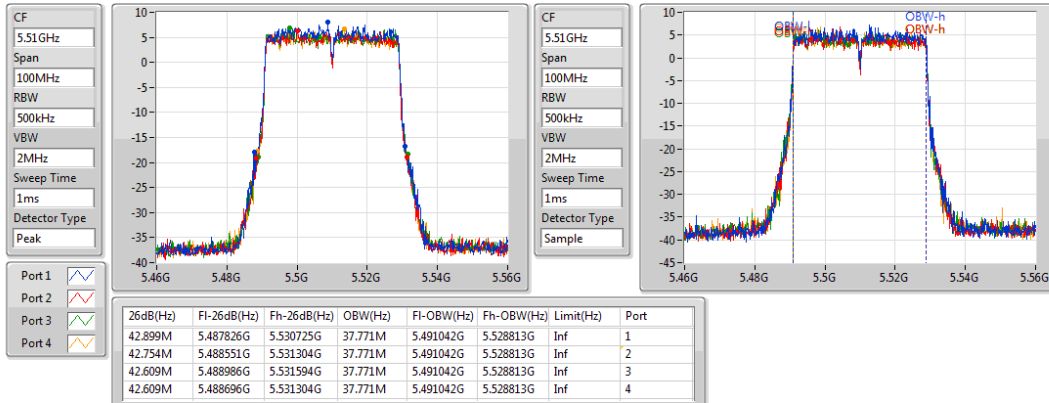
5310MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

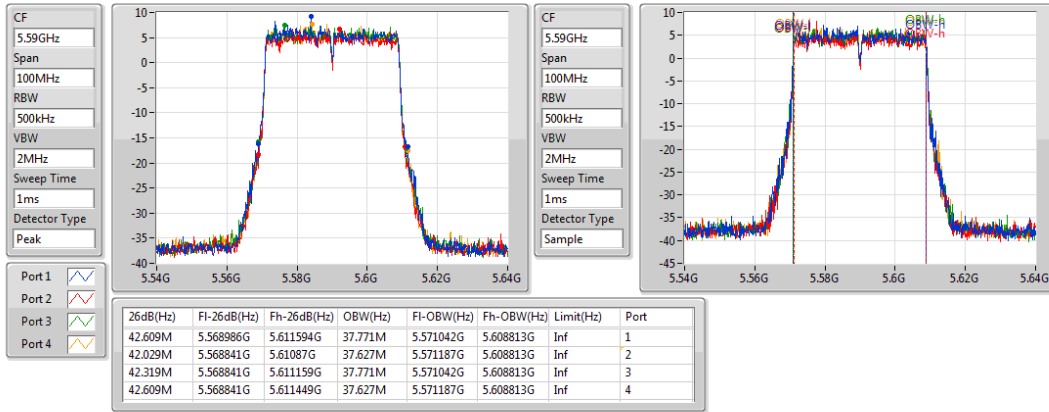
5510MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

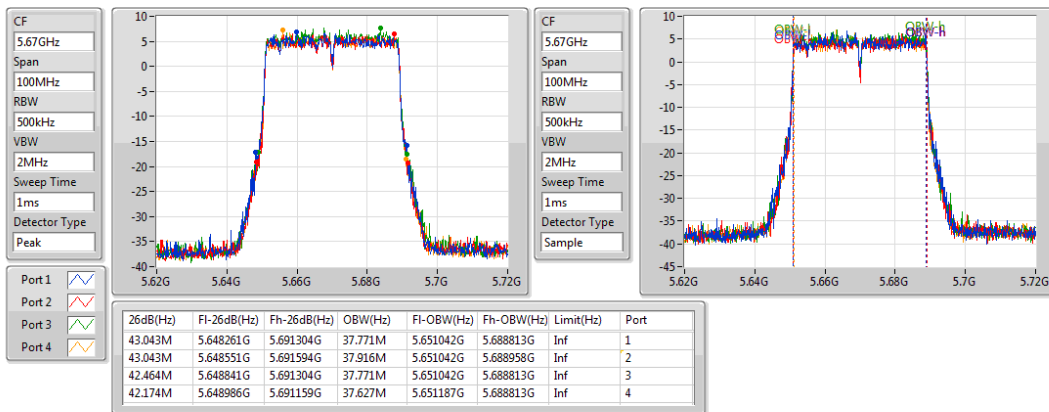
5590MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5670MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

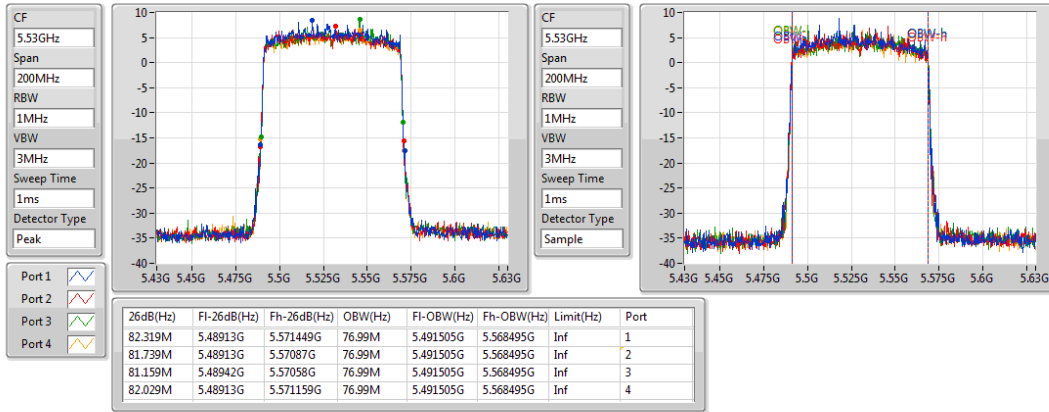
5290MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

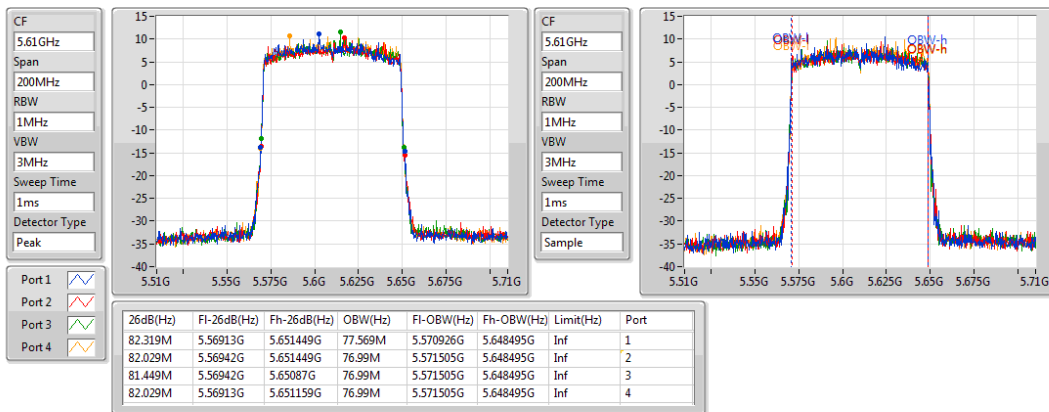
5530MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

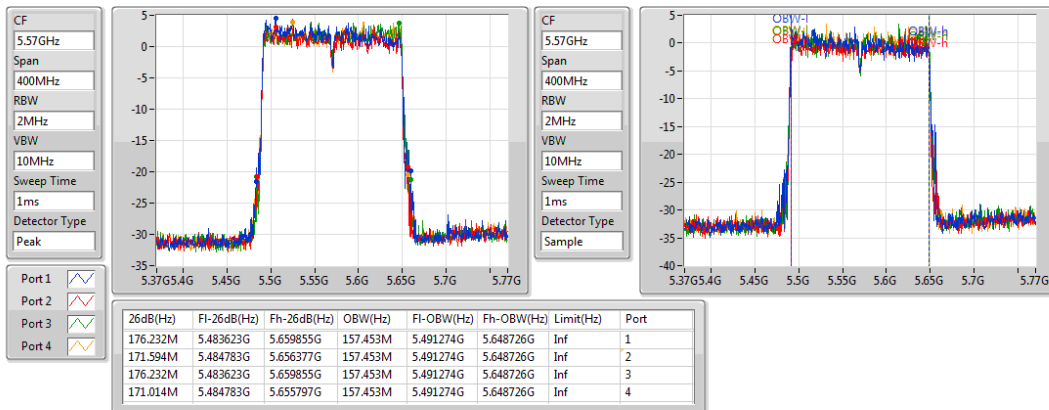
5610MHz



802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5570MHz



3.3 RF Output Power

3.3.1 Limit of RF Output Power

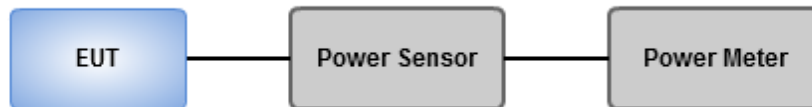
Frequency Band (MHz)		Limit
☒	5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
☒	5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
Note: "B" is the 26dB emission bandwidth in MHz.		

3.3.2 Test Procedures

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

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

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

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

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	17.15	0.05188	22.75	0.18836
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	16.94	0.04943	22.54	0.17947
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	17.12	0.05152	22.72	0.18707
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	16.95	0.04955	22.55	0.17989
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	18.42	0.06950	24.12	0.25823
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	18.90	0.07762	24.60	0.28840
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	21.57	0.14355	27.27	0.53333
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	23.51	0.22439	29.21	0.83368
802.11ax HEW160_Nss1,(MCS0)_4TX -OFDMA	17.30	0.05370	23.00	0.19953

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	5.60	14.03	13.82	-	-	16.94	24.00	22.54	30.00
5300MHz	Pass	5.60	14.17	14.11	-	-	17.15	24.00	22.75	30.00
5320MHz	Pass	5.60	14.12	13.95	-	-	17.05	23.99	22.65	29.99
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	5.70	12.71	12.03	11.81	11.65	18.09	23.90	23.79	29.90
5580MHz	Pass	5.70	12.35	12.02	12.06	12.21	18.18	23.96	23.88	29.96
5700MHz	Pass	5.70	12.02	12.11	13.41	11.89	18.42	23.85	24.12	29.85
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	5.60	14.02	13.77	-	-	16.91	24.00	22.51	30.00
5300MHz	Pass	5.60	14.03	13.82	-	-	16.94	24.00	22.54	30.00
5320MHz	Pass	5.60	14.01	13.81	-	-	16.92	24.00	22.52	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	5.70	13.15	12.72	12.32	12.26	18.65	24.00	24.35	30.00
5580MHz	Pass	5.70	12.68	12.51	12.73	12.75	18.69	24.00	24.39	30.00
5700MHz	Pass	5.70	12.55	12.45	13.91	12.43	18.90	24.00	24.60	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	5.60	14.08	13.85	-	-	16.98	24.00	22.58	30.00
5310MHz	Pass	5.60	14.25	13.96	-	-	17.12	24.00	22.72	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	5.70	15.58	14.82	15.02	14.76	21.08	24.00	26.78	30.00
5590MHz	Pass	5.70	15.74	15.15	15.67	15.62	21.57	24.00	27.27	30.00
5670MHz	Pass	5.70	15.08	15.05	16.08	15.16	21.38	24.00	27.08	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	5.60	14.06	13.82	-	-	16.95	24.00	22.55	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	5.70	15.37	14.8	15.01	14.72	21.00	24.00	26.70	30.00
5610MHz	Pass	5.70	17.45	17.41	17.48	17.61	23.51	24.00	29.21	30.00
802.11ax	-	-	-	-	-	-	-	-	-	-

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)
HEW160_Nss1,(MCS0)_4TX -OFDMA										
5570MHz	Pass	5.70	11.43	10.85	11.47	11.32	17.30	24.00	23.00	30.00

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

Beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX -OFDMA	13.93	0.02472	22.34	0.17140
802.11ax HEW40-BF_Nss1,(MCS0)_2TX -OFDMA	14.11	0.02576	22.52	0.17865
802.11ax HEW80-BF_Nss1,(MCS0)_2TX -OFDMA	13.94	0.02477	22.35	0.17179
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX -OFDMA	12.88	0.01941	24.28	0.26792
802.11ax HEW40-BF_Nss1,(MCS0)_4TX -OFDMA	15.55	0.03589	26.95	0.49545
802.11ax HEW80-BF_Nss1,(MCS0)_4TX -OFDMA	17.49	0.05610	28.89	0.77446
802.11ax HEW160-BF_Nss1,(MCS0)_4TX -OFDMA	11.28	0.01343	22.68	0.18535

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	8.41	11.01	10.76	-	-	13.90	21.59	22.31	30.00
5300MHz	Pass	8.41	11.02	10.81	-	-	13.93	21.59	22.34	30.00
5320MHz	Pass	8.41	11	10.8	-	-	13.91	21.59	22.32	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	11.40	7.13	6.7	6.3	6.24	12.63	18.60	24.03	30.00
5580MHz	Pass	11.40	6.66	6.49	6.71	6.73	12.67	18.60	24.07	30.00
5700MHz	Pass	11.40	6.53	6.43	7.89	6.41	12.88	18.60	24.28	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	8.41	11.07	10.84	-	-	13.97	21.59	22.38	30.00
5310MHz	Pass	8.41	11.24	10.95	-	-	14.11	21.59	22.52	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	11.40	9.56	8.8	9	8.74	15.06	18.60	26.46	30.00
5590MHz	Pass	11.40	9.72	9.13	9.65	9.6	15.55	18.60	26.95	30.00
5670MHz	Pass	11.40	9.06	9.03	10.06	9.14	15.36	18.60	26.76	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	8.41	11.05	10.81	-	-	13.94	21.59	22.35	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	11.40	9.35	8.78	8.99	8.7	14.98	18.60	26.38	30.00
5610MHz	Pass	11.40	11.43	11.39	11.46	11.59	17.49	18.60	28.89	30.00
802.11ax HEW160-BF_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5570MHz	Pass	11.40	5.41	4.83	5.45	5.3	11.28	18.60	22.68	30.00

Port X = Port X output power

DG = Directional Gain

For 5250~5350MHz:

Directional gain = $10 \times \log((10^{5.2/20} + 10^{5.6/20})^2 / 2) = 8.41 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to 24 dBm – (8.41 dBi – 6 dBi) = 21.59 dBm

For 5470~5725MHz:

Directional gain = $10 \times \log((10^{5.3/20} + 10^{5.1/20} + 10^{5.4/20} + 10^{5.7/20})^2 / 4) = 11.40 \text{ dBi}$, Limit shall be reduced to 24 dBm – (11.4 dBi – 6 dBi) = 18.6 dBm

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz

3.4.2 Test Procedures

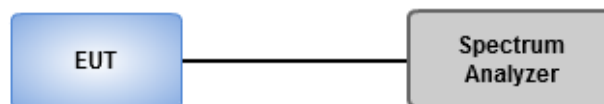
Duty cycle $\geq 98\%$

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

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

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

	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	4.65	13.06
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	3.30	11.71
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	1.05	9.46
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	-2.77	5.64
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	5.44	16.84
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	5.45	16.85
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	5.41	16.81
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	4.85	16.25
802.11ax HEW160_Nss1,(MCS0)_4TX -OFDMA	-3.97	7.43

RBW = 1MHz

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	8.41	1.30	1.41	-	-	4.25	8.59	12.66	17.00
5300MHz	Pass	8.41	1.52	1.83	-	-	4.65	8.59	13.06	17.00
5320MHz	Pass	8.41	1.34	1.58	-	-	4.42	8.59	12.83	17.00
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	11.40	-0.17	-0.55	-1.05	-1.12	5.17	5.60	16.57	17.00
5580MHz	Pass	11.40	-0.58	-0.71	-0.64	-0.71	5.22	5.60	16.62	17.00
5700MHz	Pass	11.40	-0.99	-0.60	0.50	-0.86	5.44	5.60	16.84	17.00
802.11ax HEW20_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	8.41	0.22	0.49	-	-	3.30	8.59	11.71	17.00
5300MHz	Pass	8.41	-0.17	0.18	-	-	2.91	8.59	11.32	17.00
5320MHz	Pass	8.41	-0.22	0.04	-	-	2.87	8.59	11.28	17.00
802.11ax HEW20_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	11.40	0.12	-0.74	-0.92	-1.18	5.18	5.60	16.58	17.00
5580MHz	Pass	11.40	-0.44	-0.89	-0.54	-0.63	5.15	5.60	16.55	17.00
5700MHz	Pass	11.40	-0.78	-0.75	0.54	-0.94	5.45	5.60	16.85	17.00
802.11ax HEW40_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	8.41	-3.13	-2.58	-	-	0.06	8.59	8.47	17.00
5310MHz	Pass	8.41	-2.21	-1.73	-	-	1.05	8.59	9.46	17.00
802.11ax HEW40_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	11.40	0.04	-1.09	-0.56	-1.08	5.21	5.60	16.61	17.00
5590MHz	Pass	11.40	-0.49	-1.28	-0.45	-0.67	5.07	5.60	16.47	17.00
5670MHz	Pass	11.40	-0.52	-0.72	0.25	-0.71	5.41	5.60	16.81	17.00
802.11ax HEW80_Nss1,(MCS0)_2TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	8.41	-5.89	-5.45	-	-	-2.77	8.59	5.64	17.00
802.11ax HEW80_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	11.40	-3.01	-3.74	-3.39	-3.98	2.24	5.60	13.64	17.00
5610MHz	Pass	11.40	-1.05	-1.14	-0.94	-0.98	4.85	5.60	16.25	17.00

802.11ax HEW160_Nss1,(MCS0)_4TX -OFDMA	-	-	-	-	-	-	-	-	-	-
5570MHz	Pass	11.40	-9.11	-9.97	-9.66	-9.81	-3.97	5.60	7.43	17.00

RBW = 1MHz

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

DG = Directional Gain

For 5250~5350MHz:

Directional gain = $10 \times \log((10^{5.2/20} + 10^{5.6/20})^2 / 2) = 8.41 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to 11 dBm – (8.41 dBi – 6 dBi) = 8.59 dBm

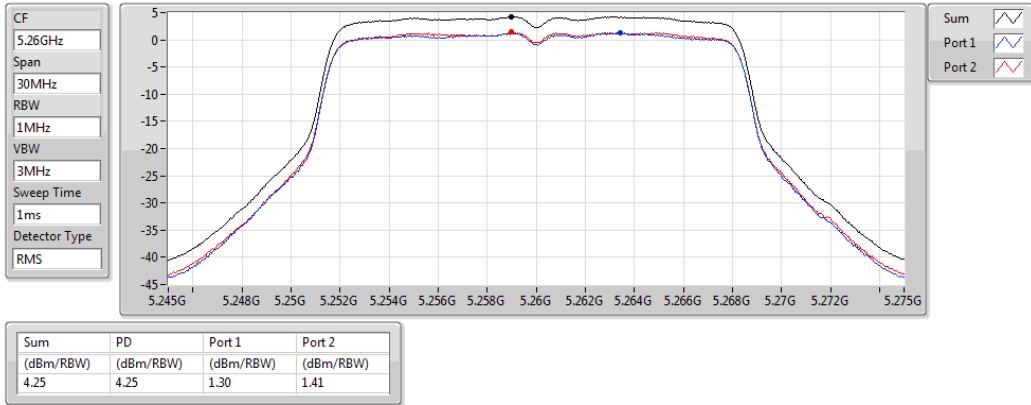
For 5470~5725MHz:

Directional gain = $10 \times \log((10^{5.3/20} + 10^{5.1/20} + 10^{5.4/20} + 10^{5.7/20})^2 / 4) = 11.40 \text{ dBi}$., Limit shall be reduced to 11 dBm – (11.4 dBi – 6 dBi) = 5.6 dBm

802.11a_Nss1,(6Mbps)_2TX

PSD

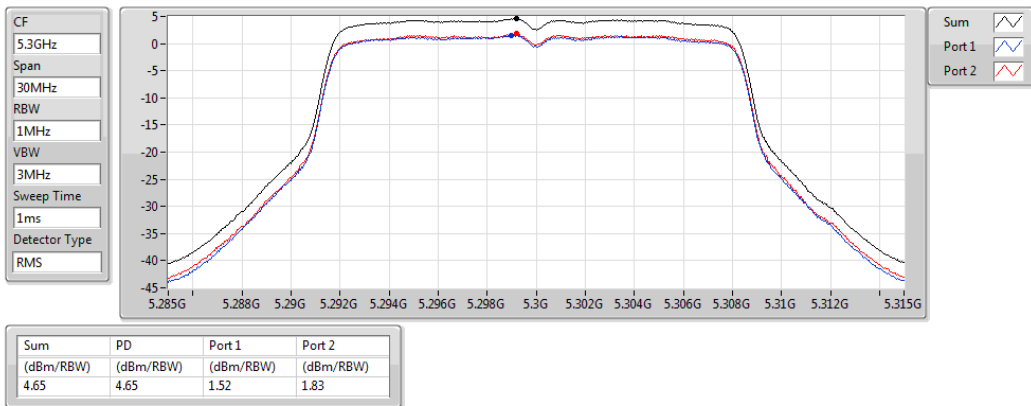
5260MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

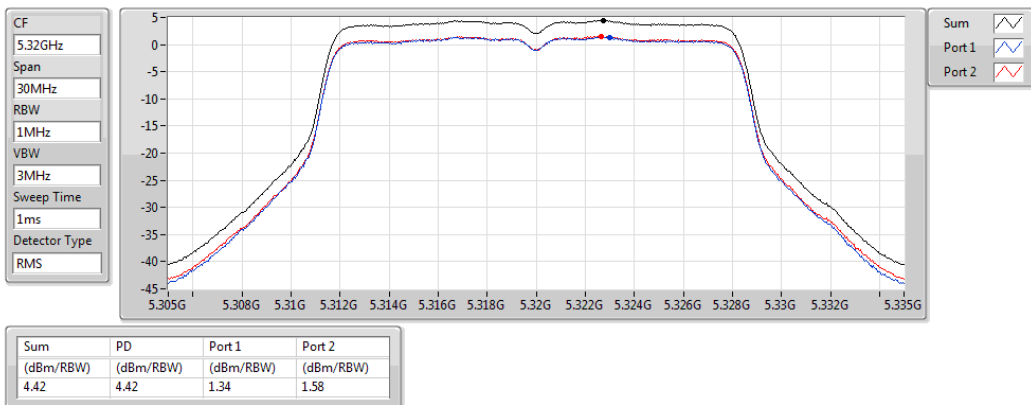
5300MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

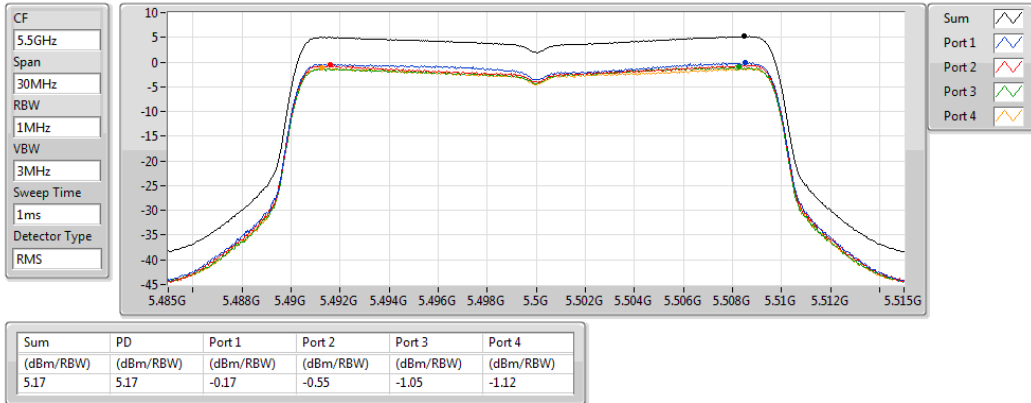
5320MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

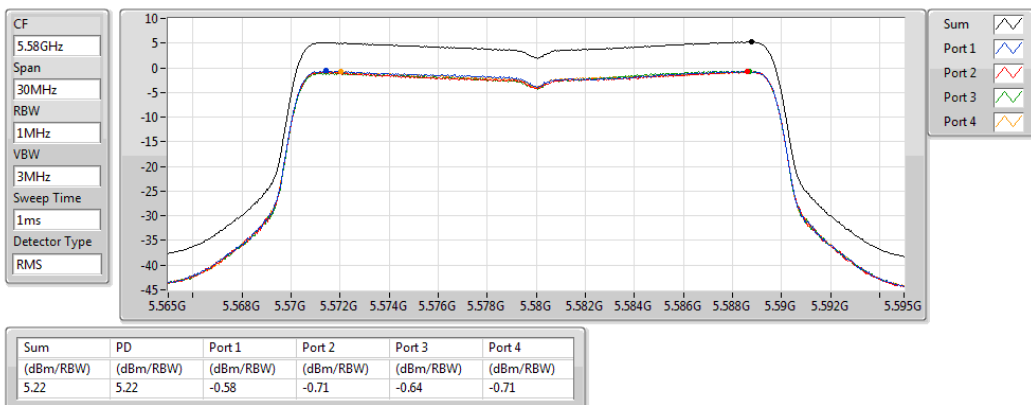
5500MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

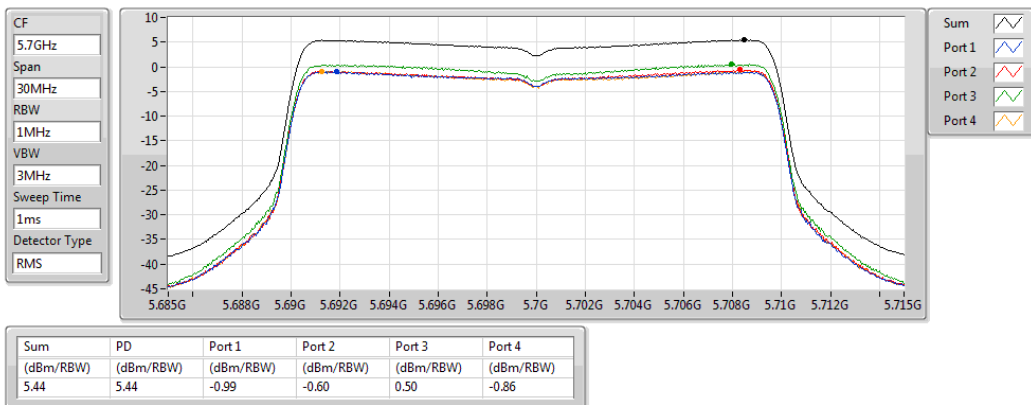
5580MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

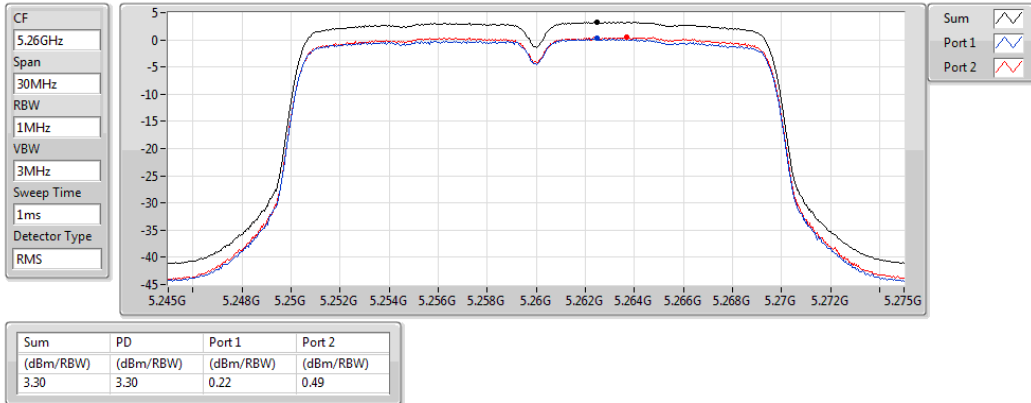
5700MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

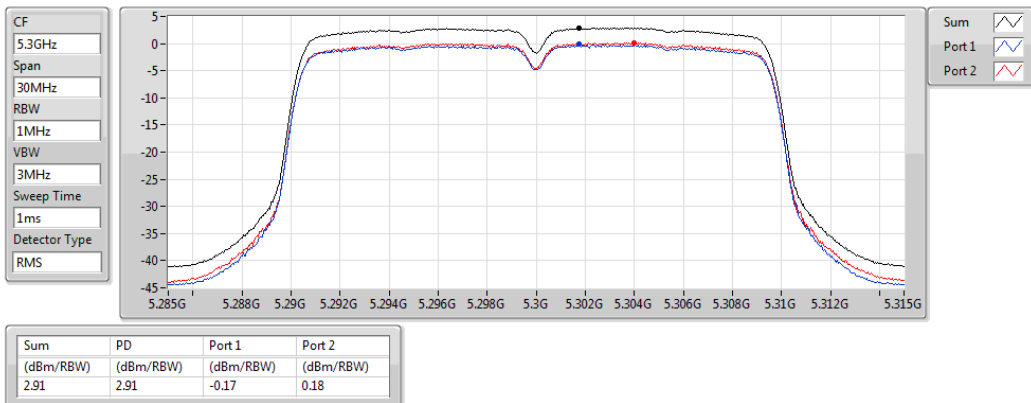
5260MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

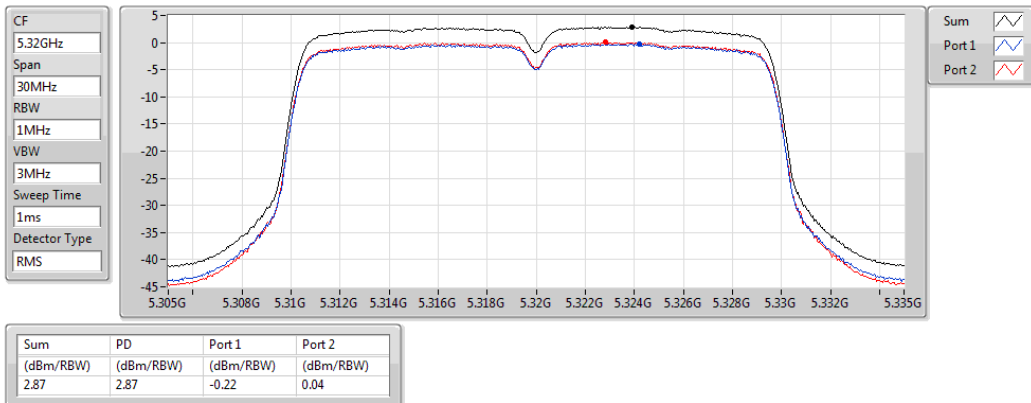
5300MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

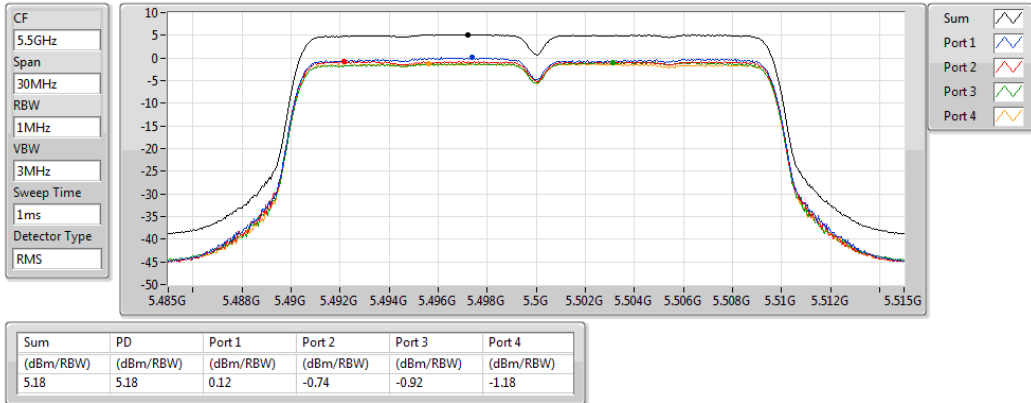
5320MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

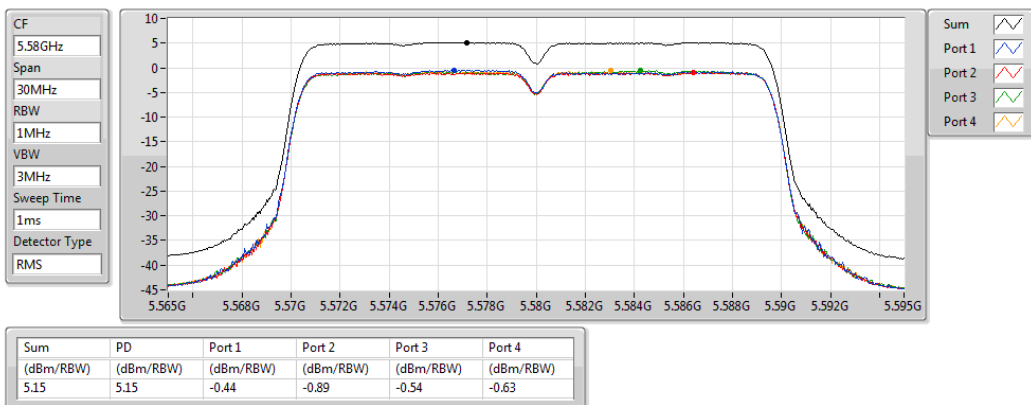
5500MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

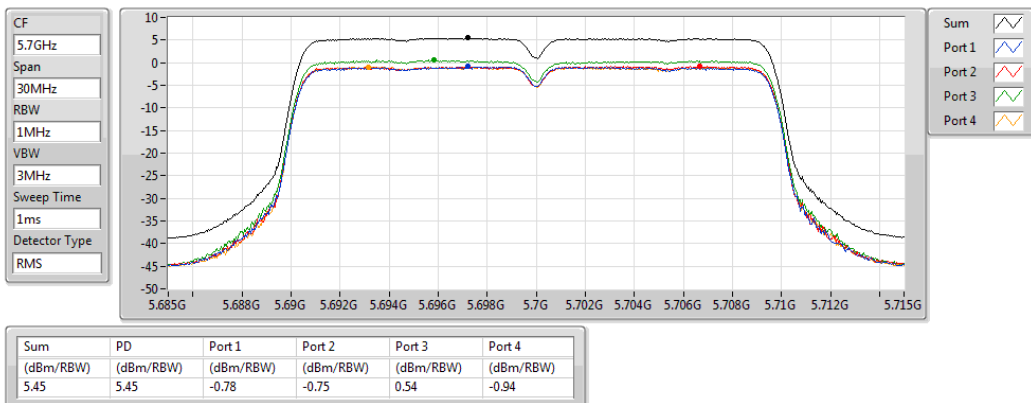
5580MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

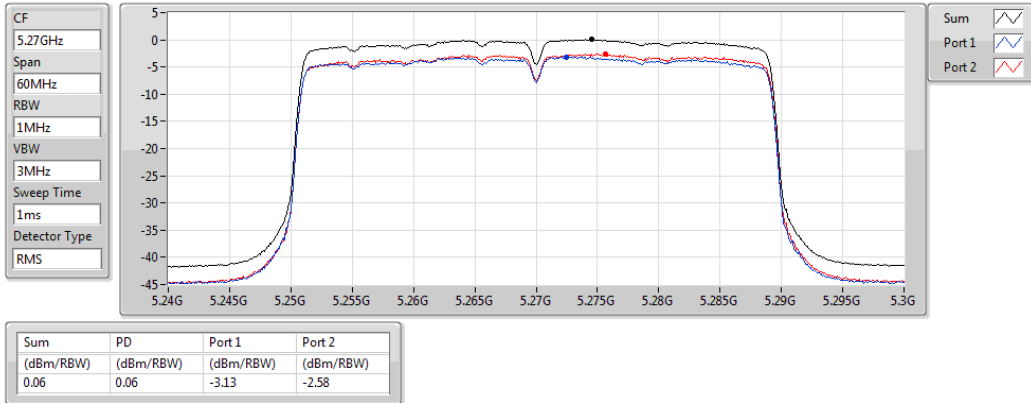
5700MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

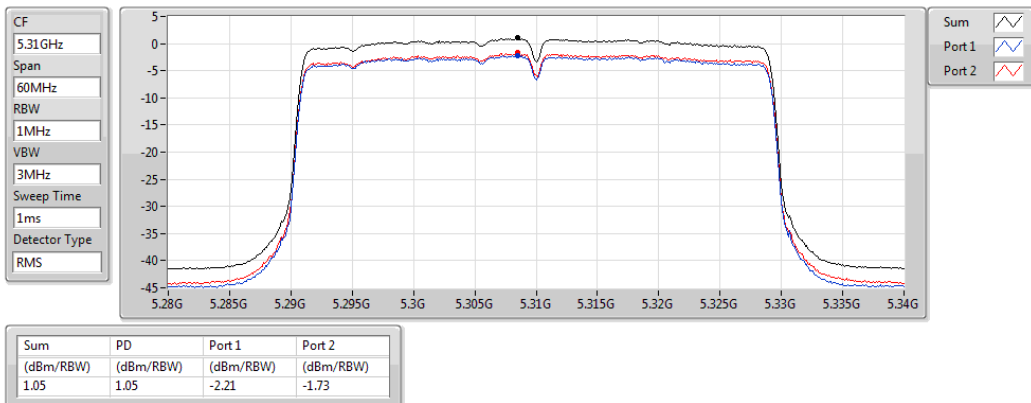
5270MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

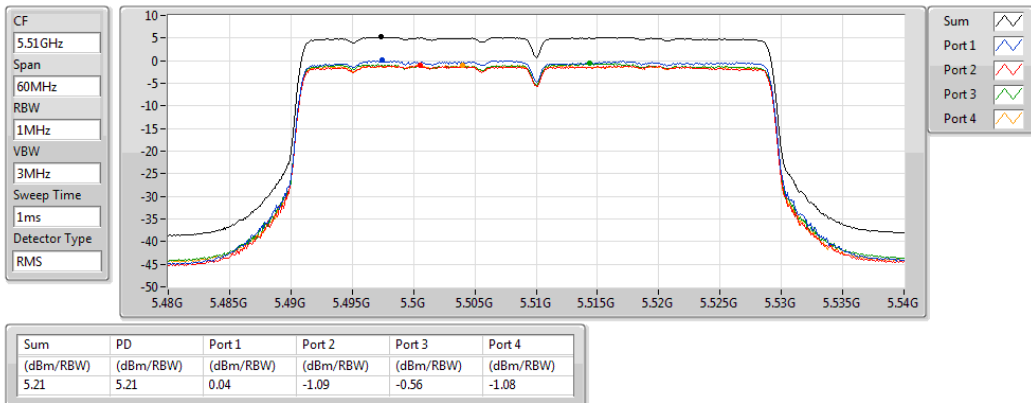
5310MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

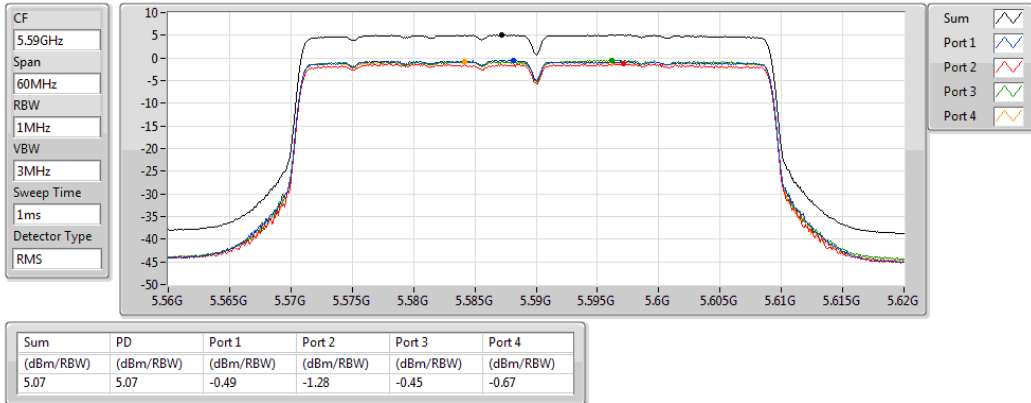
5510MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

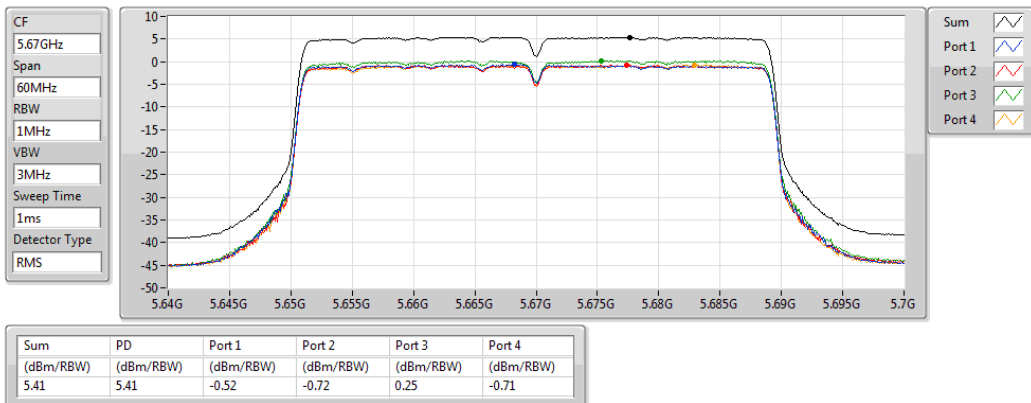
5590MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

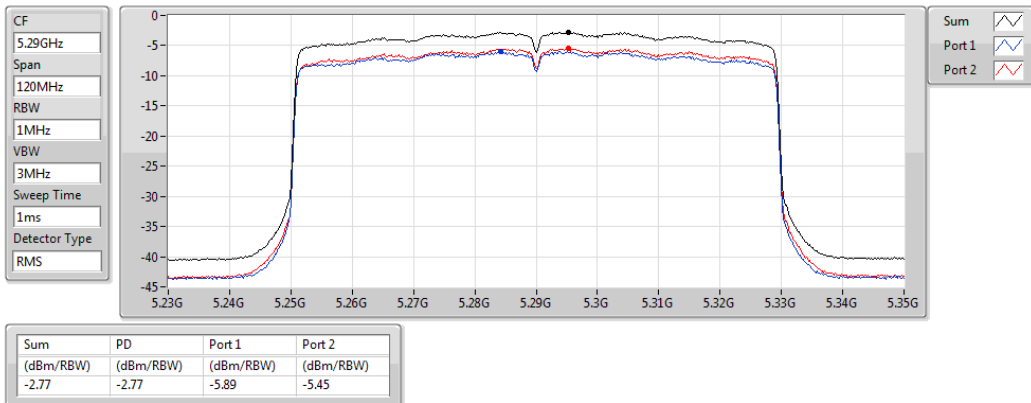
5670MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

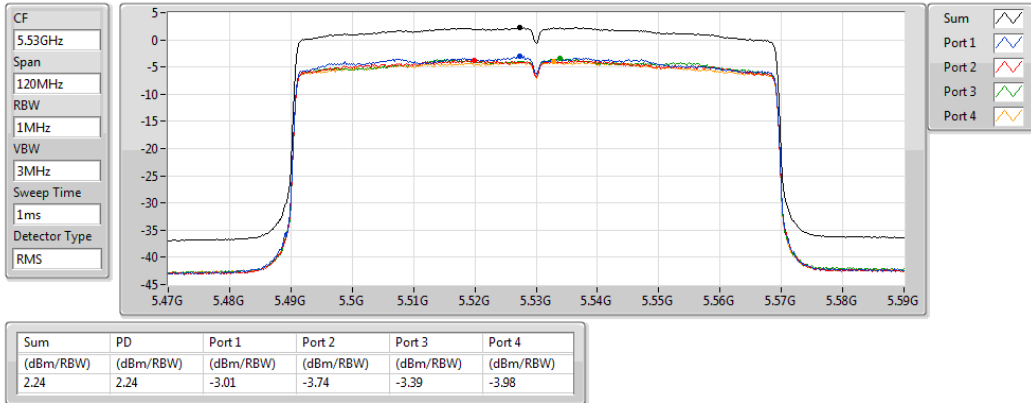
5290MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

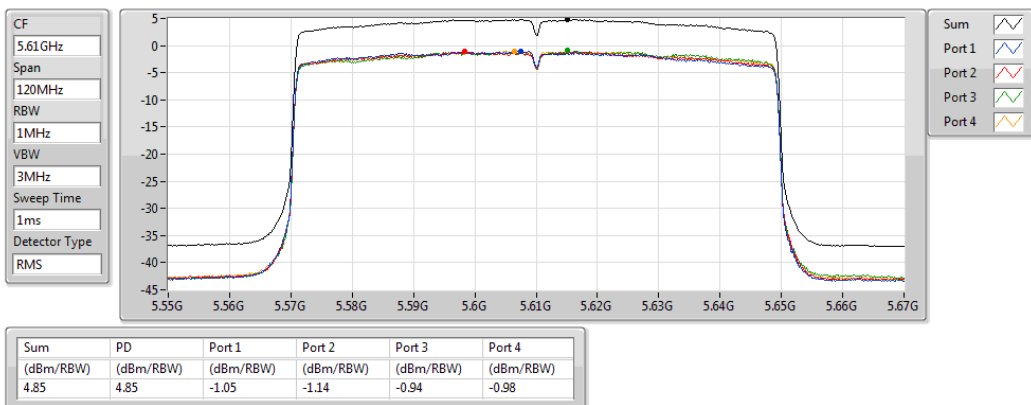
5530MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

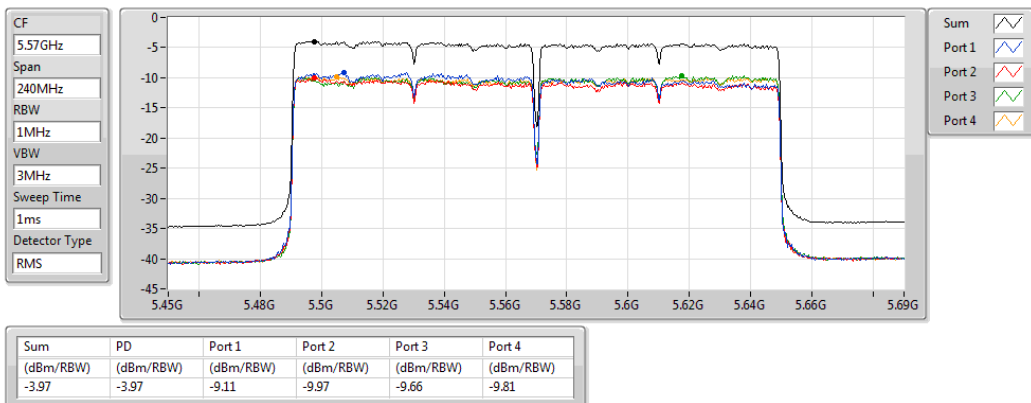
5610MHz



802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5570MHz



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
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

3.5.2 Test Procedures

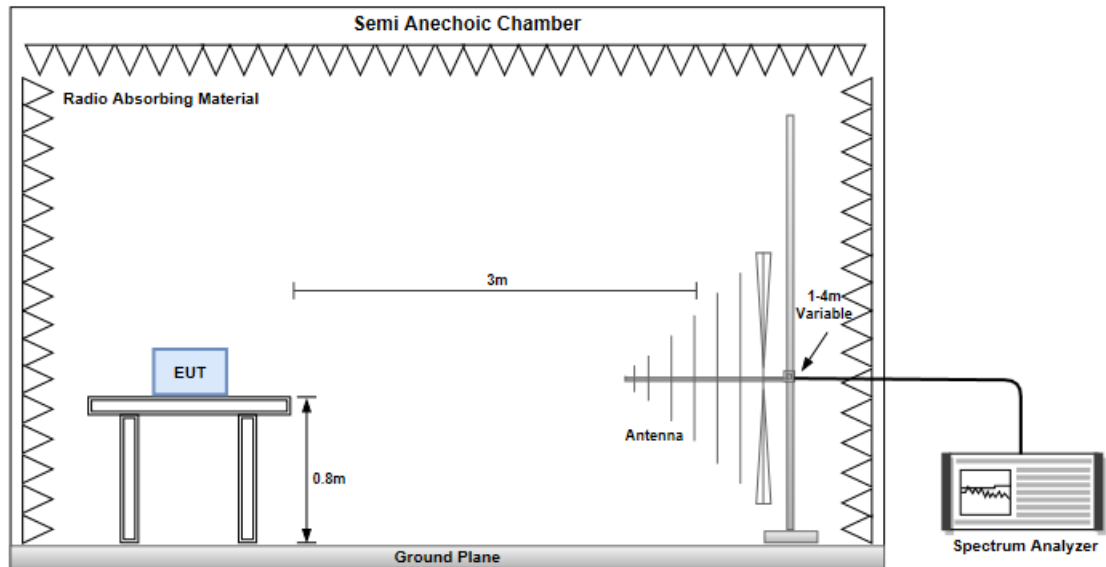
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

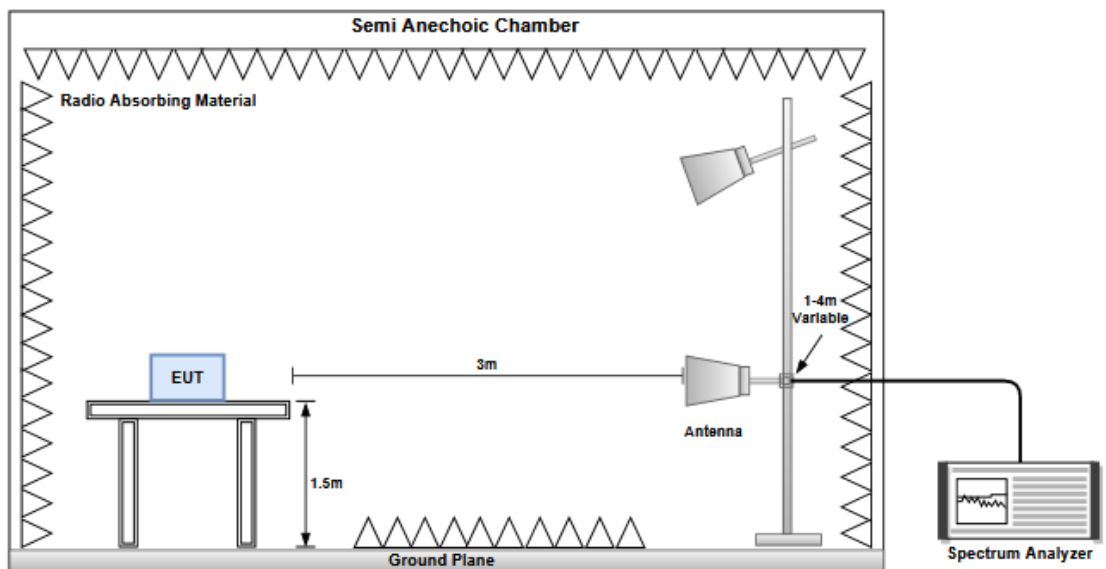
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65			
Level (dBUV/m) <			

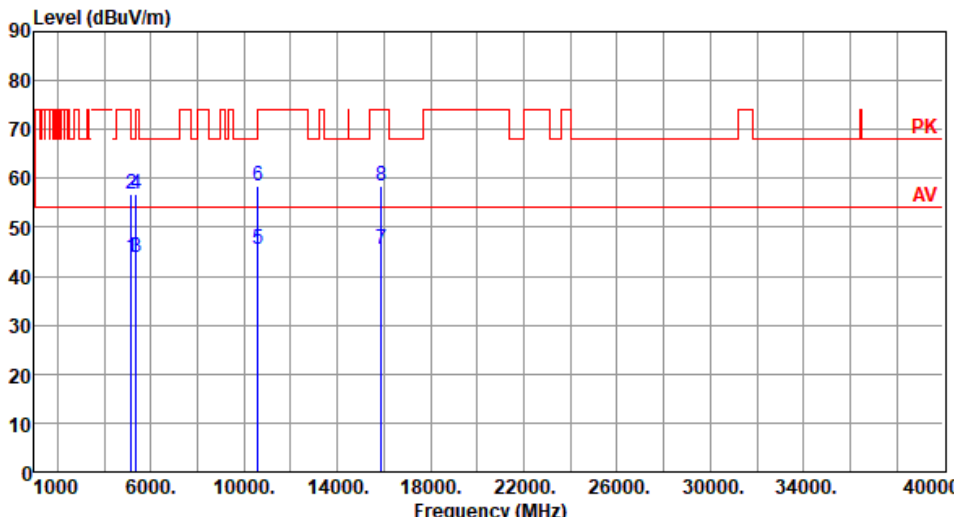
Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5610
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65			
Level (dBuV/m)			

Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5610
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65			
Level (dBuV/m)			

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

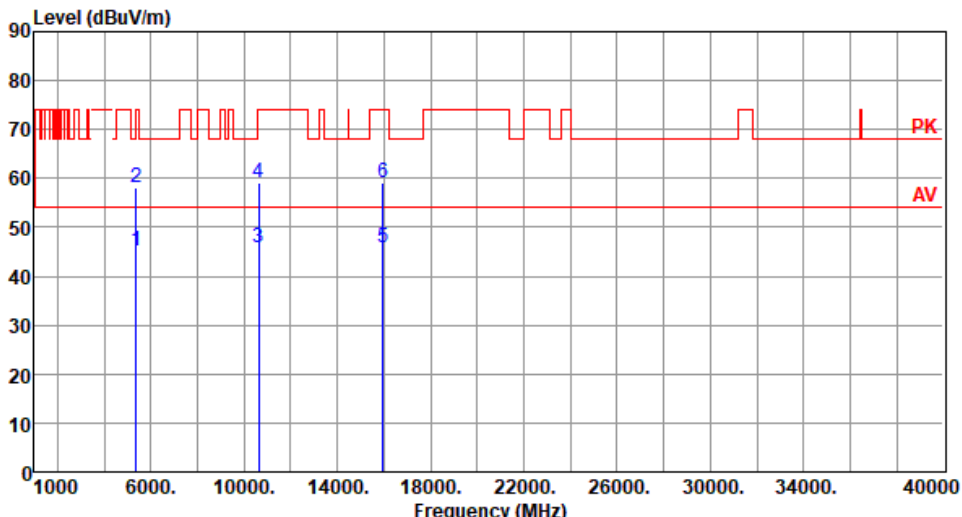
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5300																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																																	
Level (dBuV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>43.76</td><td>54.00</td><td>-10.24</td><td>39.55</td><td>4.21</td><td>Average</td><td>121</td><td>226</td></tr><tr><td>2</td><td>5150.00</td><td>56.90</td><td>74.00</td><td>-17.10</td><td>52.69</td><td>4.21</td><td>Peak</td><td>121</td><td>226</td></tr><tr><td>3</td><td>5350.00</td><td>43.79</td><td>54.00</td><td>-10.21</td><td>39.91</td><td>3.88</td><td>Average</td><td>121</td><td>226</td></tr><tr><td>4</td><td>5350.00</td><td>56.81</td><td>74.00</td><td>-17.19</td><td>52.93</td><td>3.88</td><td>Peak</td><td>121</td><td>226</td></tr><tr><td>5</td><td>10600.00</td><td>45.53</td><td>54.00</td><td>-8.47</td><td>31.47</td><td>14.06</td><td>Average</td><td>100</td><td>55</td></tr><tr><td>6</td><td>10600.00</td><td>58.61</td><td>74.00</td><td>-15.39</td><td>44.55</td><td>14.06</td><td>Peak</td><td>100</td><td>55</td></tr><tr><td>7</td><td>15900.00</td><td>45.56</td><td>54.00</td><td>-8.44</td><td>31.63</td><td>13.93</td><td>Average</td><td>100</td><td>59</td></tr><tr><td>8</td><td>15900.00</td><td>58.61</td><td>74.00</td><td>-15.39</td><td>44.68</td><td>13.93</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									cm	deg	1	5150.00	43.76	54.00	-10.24	39.55	4.21	Average	121	226	2	5150.00	56.90	74.00	-17.10	52.69	4.21	Peak	121	226	3	5350.00	43.79	54.00	-10.21	39.91	3.88	Average	121	226	4	5350.00	56.81	74.00	-17.19	52.93	3.88	Peak	121	226	5	10600.00	45.53	54.00	-8.47	31.47	14.06	Average	100	55	6	10600.00	58.61	74.00	-15.39	44.55	14.06	Peak	100	55	7	15900.00	45.56	54.00	-8.44	31.63	13.93	Average	100	59	8	15900.00	58.61	74.00	-15.39	44.68	13.93	Peak	100	59
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																																								
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1	5150.00	43.76	54.00	-10.24	39.55	4.21	Average	121	226																																																																																																								
2	5150.00	56.90	74.00	-17.10	52.69	4.21	Peak	121	226																																																																																																								
3	5350.00	43.79	54.00	-10.21	39.91	3.88	Average	121	226																																																																																																								
4	5350.00	56.81	74.00	-17.19	52.93	3.88	Peak	121	226																																																																																																								
5	10600.00	45.53	54.00	-8.47	31.47	14.06	Average	100	55																																																																																																								
6	10600.00	58.61	74.00	-15.39	44.55	14.06	Peak	100	55																																																																																																								
7	15900.00	45.56	54.00	-8.44	31.63	13.93	Average	100	59																																																																																																								
8	15900.00	58.61	74.00	-15.39	44.68	13.93	Peak	100	59																																																																																																								
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																																	

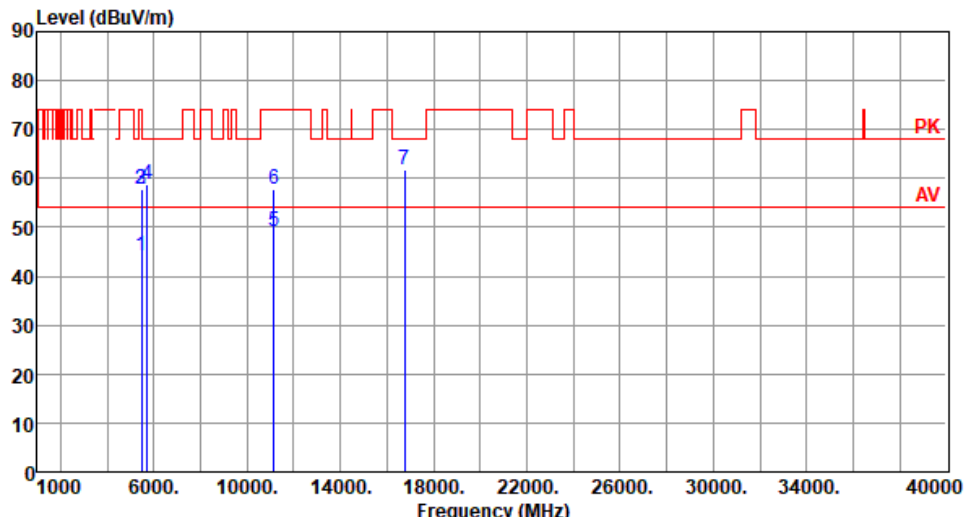
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Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m) </			

Modulation	11a	Test Freq. (MHz)	5320																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																													
Level (dBUV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5350.00</td><td>45.13</td><td>54.00</td><td>-8.87</td><td>41.25</td><td>3.88</td><td>Average</td><td>357</td><td>187</td></tr><tr><td>2</td><td>5350.00</td><td>58.10</td><td>74.00</td><td>-15.90</td><td>54.22</td><td>3.88</td><td>Peak</td><td>357</td><td>187</td></tr><tr><td>3</td><td>10640.00</td><td>45.93</td><td>54.00</td><td>-8.07</td><td>31.89</td><td>14.04</td><td>Average</td><td>100</td><td>102</td></tr><tr><td>4</td><td>10640.00</td><td>58.99</td><td>74.00</td><td>-15.01</td><td>44.95</td><td>14.04</td><td>Peak</td><td>100</td><td>102</td></tr><tr><td>5</td><td>15960.00</td><td>45.95</td><td>54.00</td><td>-8.05</td><td>31.93</td><td>14.02</td><td>Average</td><td>100</td><td>119</td></tr><tr><td>6</td><td>15960.00</td><td>59.00</td><td>74.00</td><td>-15.00</td><td>44.98</td><td>14.02</td><td>Peak</td><td>100</td><td>119</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	5350.00	45.13	54.00	-8.87	41.25	3.88	Average	357	187	2	5350.00	58.10	74.00	-15.90	54.22	3.88	Peak	357	187	3	10640.00	45.93	54.00	-8.07	31.89	14.04	Average	100	102	4	10640.00	58.99	74.00	-15.01	44.95	14.04	Peak	100	102	5	15960.00	45.95	54.00	-8.05	31.93	14.02	Average	100	119	6	15960.00	59.00	74.00	-15.00	44.98	14.02	Peak	100	119
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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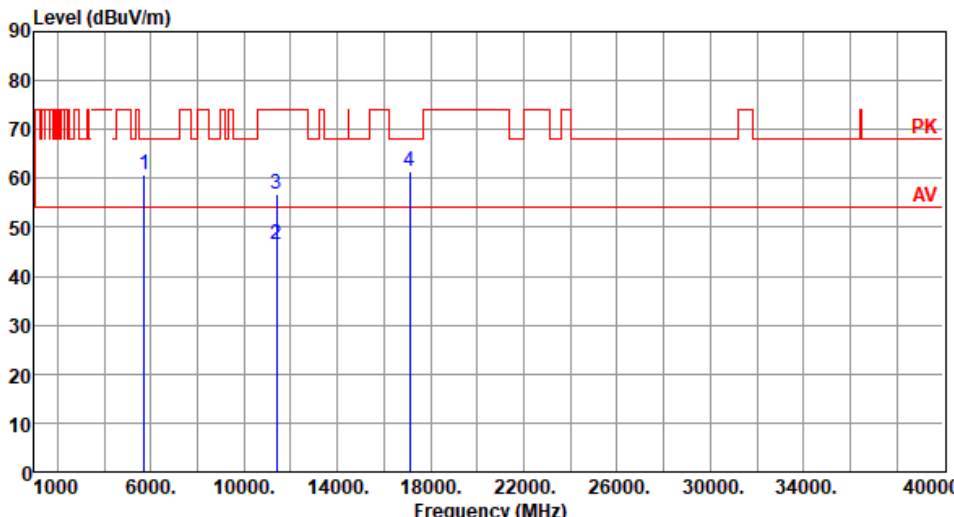
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m) </			

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5580																																																																																
Polarization	Horizontal																																																																																		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																			
Level (dBuV/m)  <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5460.00</td><td>44.15</td><td>54.00</td><td>-9.85</td><td>39.86</td><td>4.29</td><td>Average</td><td>102</td><td>294</td></tr><tr><td>2</td><td>5460.00</td><td>57.89</td><td>74.00</td><td>-16.11</td><td>53.60</td><td>4.29</td><td>Peak</td><td>102</td><td>294</td></tr><tr><td>3</td><td>5470.00</td><td>57.92</td><td>68.20</td><td>-10.28</td><td>53.60</td><td>4.32</td><td>Peak</td><td>102</td><td>294</td></tr><tr><td>4</td><td>5725.00</td><td>58.69</td><td>68.20</td><td>-9.51</td><td>53.89</td><td>4.80</td><td>Peak</td><td>102</td><td>294</td></tr><tr><td>5</td><td>11160.00</td><td>49.26</td><td>54.00</td><td>-4.74</td><td>35.41</td><td>13.85</td><td>Average</td><td>261</td><td>50</td></tr><tr><td>6</td><td>11160.00</td><td>57.79</td><td>74.00</td><td>-16.21</td><td>43.94</td><td>13.85</td><td>Peak</td><td>261</td><td>50</td></tr><tr><td>7</td><td>16740.00</td><td>61.73</td><td>68.20</td><td>-6.47</td><td>44.88</td><td>16.85</td><td>Peak</td><td>100</td><td>55</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).					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	5460.00	44.15	54.00	-9.85	39.86	4.29	Average	102	294	2	5460.00	57.89	74.00	-16.11	53.60	4.29	Peak	102	294	3	5470.00	57.92	68.20	-10.28	53.60	4.32	Peak	102	294	4	5725.00	58.69	68.20	-9.51	53.89	4.80	Peak	102	294	5	11160.00	49.26	54.00	-4.74	35.41	13.85	Average	261	50	6	11160.00	57.79	74.00	-16.21	43.94	13.85	Peak	261	50	7	16740.00	61.73	68.20	-6.47	44.88	16.85	Peak	100	55
	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	5460.00	44.15	54.00	-9.85	39.86	4.29	Average	102	294																																																																										
2	5460.00	57.89	74.00	-16.11	53.60	4.29	Peak	102	294																																																																										
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5	11160.00	49.26	54.00	-4.74	35.41	13.85	Average	261	50																																																																										
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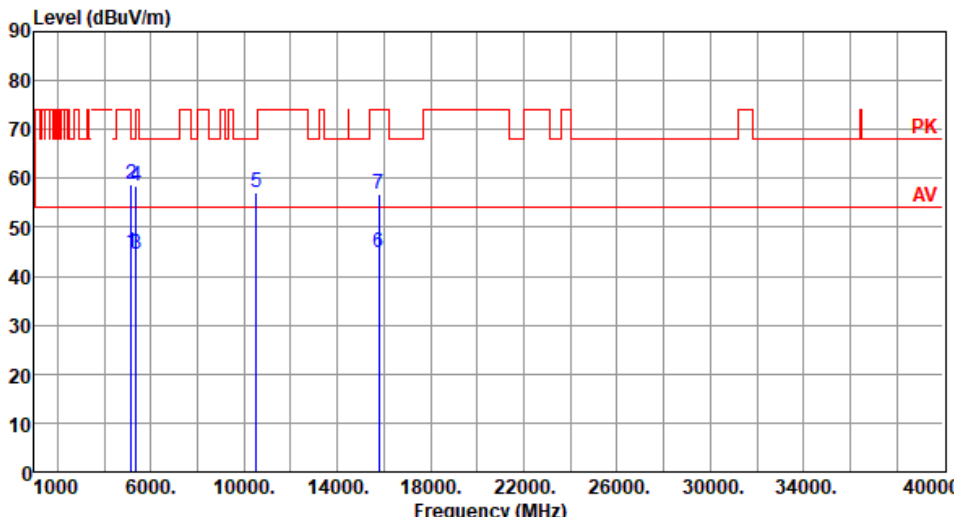
Modulation	11a	Test Freq. (MHz)	5580																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																							
Level (dBuV/m) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5460.00</td><td>44.96</td><td>54.00</td><td>-9.04</td><td>40.67</td><td>4.29</td><td>Average</td><td>180</td><td>196</td></tr><tr><td>2</td><td>5460.00</td><td>58.90</td><td>74.00</td><td>-15.10</td><td>54.61</td><td>4.29</td><td>Peak</td><td>180</td><td>196</td></tr><tr><td>3</td><td>5470.00</td><td>58.94</td><td>68.20</td><td>-9.26</td><td>54.62</td><td>4.32</td><td>Peak</td><td>180</td><td>196</td></tr><tr><td>4</td><td>5725.00</td><td>59.36</td><td>68.20</td><td>-8.84</td><td>54.56</td><td>4.80</td><td>Peak</td><td>180</td><td>196</td></tr><tr><td>5</td><td>11160.00</td><td>46.62</td><td>54.00</td><td>-7.38</td><td>32.77</td><td>13.85</td><td>Average</td><td>155</td><td>27</td></tr><tr><td>6</td><td>11160.00</td><td>58.29</td><td>74.00</td><td>-15.71</td><td>44.44</td><td>13.85</td><td>Peak</td><td>155</td><td>27</td></tr><tr><td>7</td><td>16740.00</td><td>61.51</td><td>68.20</td><td>-6.69</td><td>44.66</td><td>16.85</td><td>Peak</td><td>100</td><td>115</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	5460.00	44.96	54.00	-9.04	40.67	4.29	Average	180	196	2	5460.00	58.90	74.00	-15.10	54.61	4.29	Peak	180	196	3	5470.00	58.94	68.20	-9.26	54.62	4.32	Peak	180	196	4	5725.00	59.36	68.20	-8.84	54.56	4.80	Peak	180	196	5	11160.00	46.62	54.00	-7.38	32.77	13.85	Average	155	27	6	11160.00	58.29	74.00	-15.71	44.44	13.85	Peak	155	27	7	16740.00	61.51	68.20	-6.69	44.66	16.85	Peak	100	115
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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		dBuV/m			dBuV			cm	deg																																																																																														
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																							

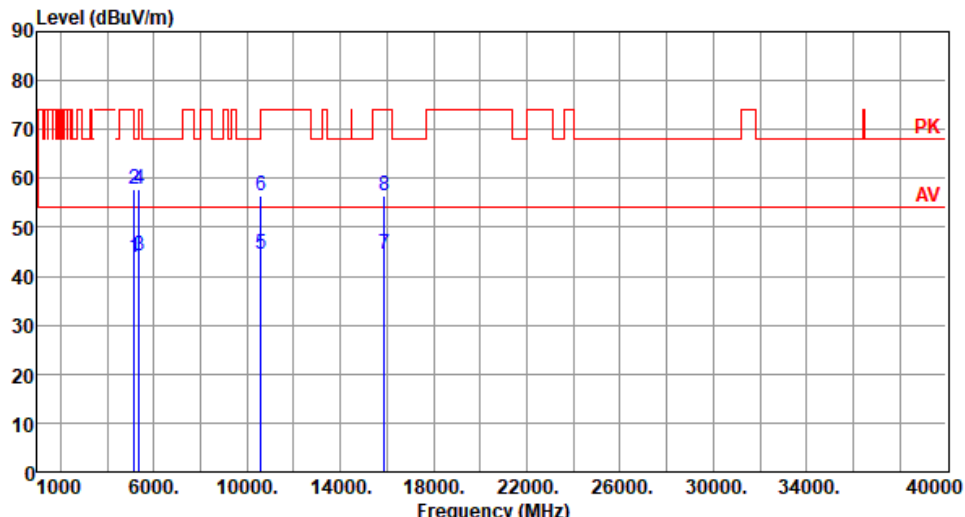
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m)			

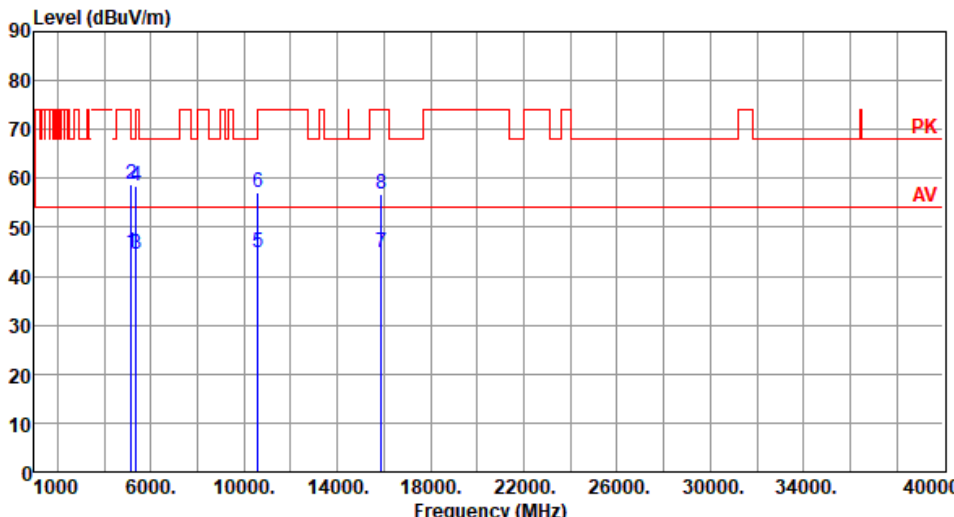
Modulation	11a	Test Freq. (MHz)	5700																																																												
Polarization	Vertical																																																														
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																															
Level (dBuV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><td>1</td><td>5725.00</td><td>60.78</td><td>68.20</td><td>-7.42</td><td>55.98</td><td>4.80</td><td>Peak</td><td>175</td><td>192</td></tr><tr><td>2</td><td>11400.00</td><td>46.50</td><td>54.00</td><td>-7.50</td><td>32.46</td><td>14.04</td><td>Average</td><td>158</td><td>23</td></tr><tr><td>3</td><td>11400.00</td><td>56.71</td><td>74.00</td><td>-17.29</td><td>42.67</td><td>14.04</td><td>Peak</td><td>158</td><td>23</td></tr><tr><td>4</td><td>17100.00</td><td>61.41</td><td>68.20</td><td>-6.79</td><td>44.34</td><td>17.07</td><td>Peak</td><td>100</td><td>48</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table	1	5725.00	60.78	68.20	-7.42	55.98	4.80	Peak	175	192	2	11400.00	46.50	54.00	-7.50	32.46	14.04	Average	158	23	3	11400.00	56.71	74.00	-17.29	42.67	14.04	Peak	158	23	4	17100.00	61.41	68.20	-6.79	44.34	17.07	Peak	100	48
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																						
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																						
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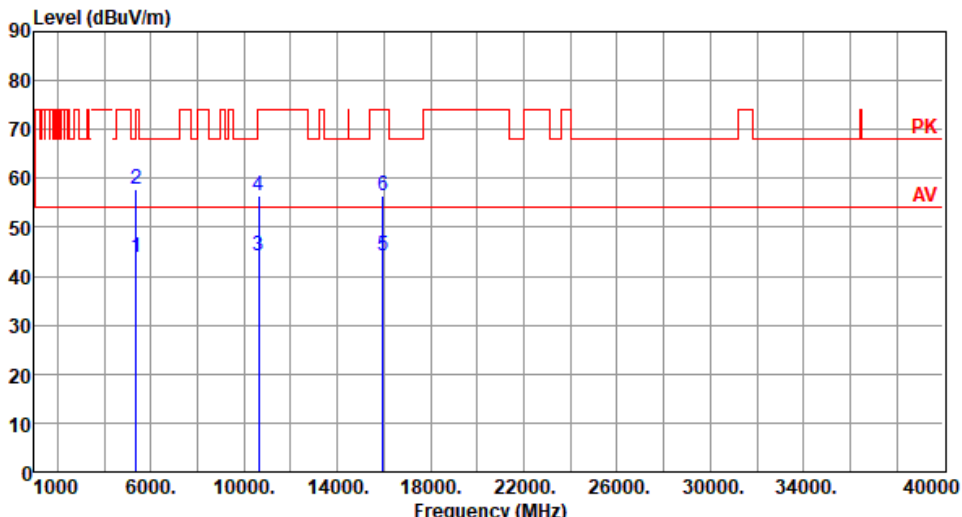
3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE20-OFDMA

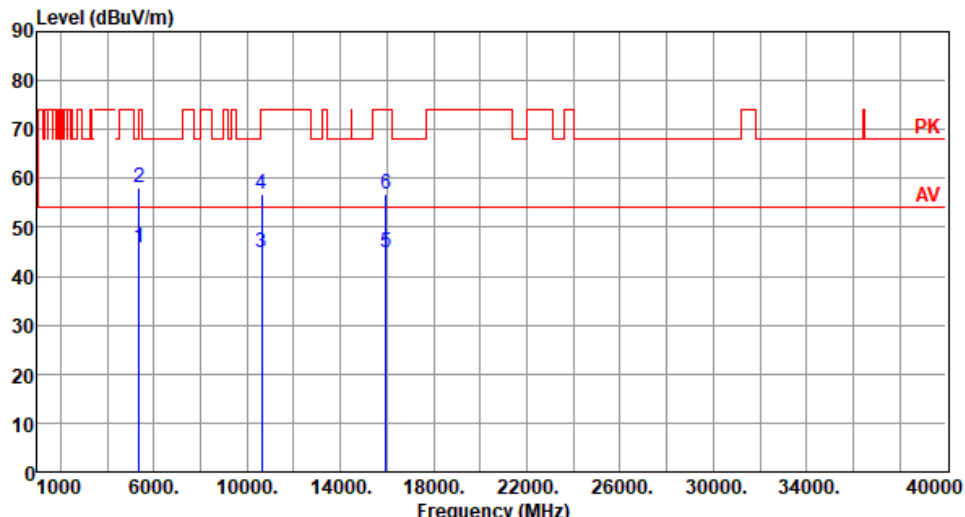
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5260
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m)			

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5260																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>44.88</td><td>54.00</td><td>-9.12</td><td>40.67</td><td>4.21</td><td>Average</td><td>366</td><td>181</td></tr><tr><td>2</td><td>5150.00</td><td>58.86</td><td>74.00</td><td>-15.14</td><td>54.65</td><td>4.21</td><td>Peak</td><td>366</td><td>181</td></tr><tr><td>3</td><td>5350.00</td><td>44.46</td><td>54.00</td><td>-9.54</td><td>40.58</td><td>3.88</td><td>Average</td><td>366</td><td>181</td></tr><tr><td>4</td><td>5350.00</td><td>58.58</td><td>74.00</td><td>-15.42</td><td>54.70</td><td>3.88</td><td>Peak</td><td>366</td><td>181</td></tr><tr><td>5</td><td>10520.00</td><td>56.96</td><td>68.20</td><td>-11.24</td><td>42.86</td><td>14.10</td><td>Peak</td><td>100</td><td>107</td></tr><tr><td>6</td><td>15780.00</td><td>44.78</td><td>54.00</td><td>-9.22</td><td>30.94</td><td>13.84</td><td>Average</td><td>100</td><td>102</td></tr><tr><td>7</td><td>15780.00</td><td>56.78</td><td>74.00</td><td>-17.22</td><td>42.94</td><td>13.84</td><td>Peak</td><td>100</td><td>102</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5150.00	44.88	54.00	-9.12	40.67	4.21	Average	366	181	2	5150.00	58.86	74.00	-15.14	54.65	4.21	Peak	366	181	3	5350.00	44.46	54.00	-9.54	40.58	3.88	Average	366	181	4	5350.00	58.58	74.00	-15.42	54.70	3.88	Peak	366	181	5	10520.00	56.96	68.20	-11.24	42.86	14.10	Peak	100	107	6	15780.00	44.78	54.00	-9.22	30.94	13.84	Average	100	102	7	15780.00	56.78	74.00	-17.22	42.94	13.84	Peak	100	102
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5300																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																																	
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>43.86</td><td>54.00</td><td>-10.14</td><td>39.65</td><td>4.21</td><td>Average</td><td>100</td><td>291</td></tr><tr><td>2</td><td>5150.00</td><td>57.70</td><td>74.00</td><td>-16.30</td><td>53.49</td><td>4.21</td><td>Peak</td><td>100</td><td>291</td></tr><tr><td>3</td><td>5350.00</td><td>44.03</td><td>54.00</td><td>-9.97</td><td>40.15</td><td>3.88</td><td>Average</td><td>100</td><td>291</td></tr><tr><td>4</td><td>5350.00</td><td>57.77</td><td>74.00</td><td>-16.23</td><td>53.89</td><td>3.88</td><td>Peak</td><td>100</td><td>291</td></tr><tr><td>5</td><td>10600.00</td><td>44.53</td><td>54.00</td><td>-9.47</td><td>30.47</td><td>14.06</td><td>Average</td><td>100</td><td>57</td></tr><tr><td>6</td><td>10600.00</td><td>56.51</td><td>74.00</td><td>-17.49</td><td>42.45</td><td>14.06</td><td>Peak</td><td>100</td><td>57</td></tr><tr><td>7</td><td>15900.00</td><td>44.44</td><td>54.00</td><td>-9.56</td><td>30.51</td><td>13.93</td><td>Average</td><td>100</td><td>60</td></tr><tr><td>8</td><td>15900.00</td><td>56.43</td><td>74.00</td><td>-17.57</td><td>42.50</td><td>13.93</td><td>Peak</td><td>100</td><td>60</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5150.00	43.86	54.00	-10.14	39.65	4.21	Average	100	291	2	5150.00	57.70	74.00	-16.30	53.49	4.21	Peak	100	291	3	5350.00	44.03	54.00	-9.97	40.15	3.88	Average	100	291	4	5350.00	57.77	74.00	-16.23	53.89	3.88	Peak	100	291	5	10600.00	44.53	54.00	-9.47	30.47	14.06	Average	100	57	6	10600.00	56.51	74.00	-17.49	42.45	14.06	Peak	100	57	7	15900.00	44.44	54.00	-9.56	30.51	13.93	Average	100	60	8	15900.00	56.43	74.00	-17.57	42.50	13.93	Peak	100	60
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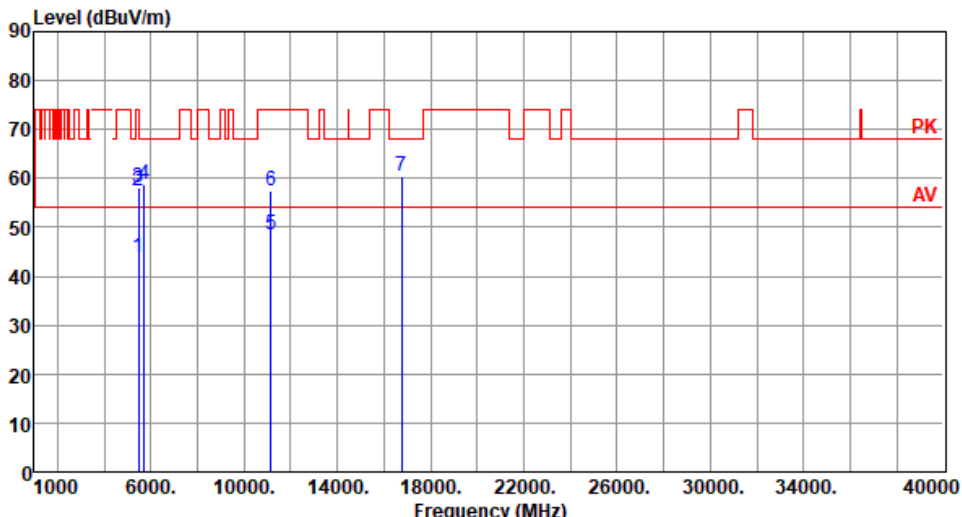
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5300																																																																																																														
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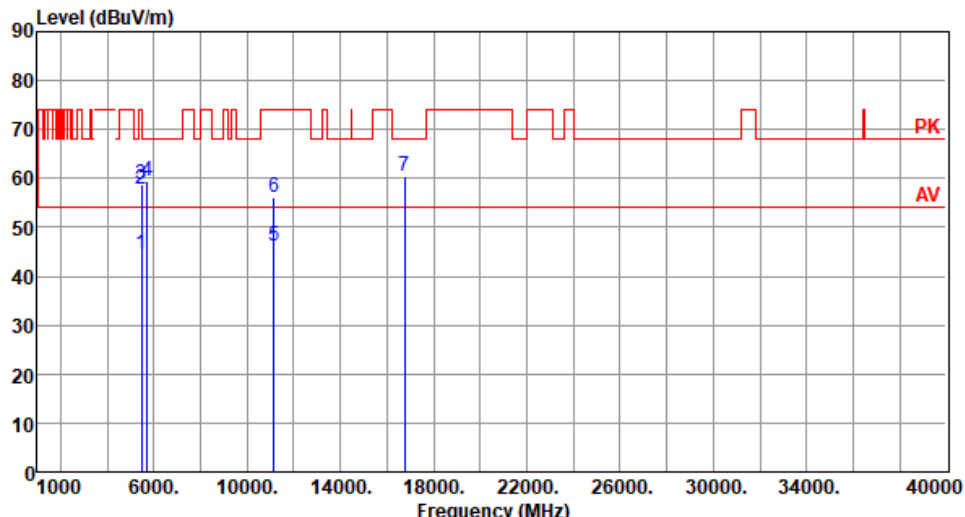
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5320																																																												
Polarization	Horizontal																																																														
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																															
Level (dBUV/m)  Freq. Emission Limit Margin SA Factor Remark ANT Turn MHz level dBUV/m dB reading dB/m High Table dBUV/m dB dBUV dB/m cm deg <table><tr><td>1</td><td>5350.00</td><td>43.86</td><td>54.00</td><td>-10.14</td><td>39.98</td><td>3.88</td><td>Average</td><td>102</td><td>290</td></tr><tr><td>2</td><td>5350.00</td><td>57.67</td><td>74.00</td><td>-16.33</td><td>53.79</td><td>3.88</td><td>Peak</td><td>102</td><td>290</td></tr><tr><td>3</td><td>10640.00</td><td>44.29</td><td>54.00</td><td>-9.71</td><td>30.25</td><td>14.04</td><td>Average</td><td>100</td><td>50</td></tr><tr><td>4</td><td>10640.00</td><td>56.50</td><td>74.00</td><td>-17.50</td><td>42.46</td><td>14.04</td><td>Peak</td><td>100</td><td>50</td></tr><tr><td>5</td><td>15960.00</td><td>44.13</td><td>54.00</td><td>-9.87</td><td>30.11</td><td>14.02</td><td>Average</td><td>100</td><td>48</td></tr><tr><td>6</td><td>15960.00</td><td>56.48</td><td>74.00</td><td>-17.52</td><td>42.46</td><td>14.02</td><td>Peak</td><td>100</td><td>48</td></tr></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).				1	5350.00	43.86	54.00	-10.14	39.98	3.88	Average	102	290	2	5350.00	57.67	74.00	-16.33	53.79	3.88	Peak	102	290	3	10640.00	44.29	54.00	-9.71	30.25	14.04	Average	100	50	4	10640.00	56.50	74.00	-17.50	42.46	14.04	Peak	100	50	5	15960.00	44.13	54.00	-9.87	30.11	14.02	Average	100	48	6	15960.00	56.48	74.00	-17.52	42.46	14.02	Peak	100	48
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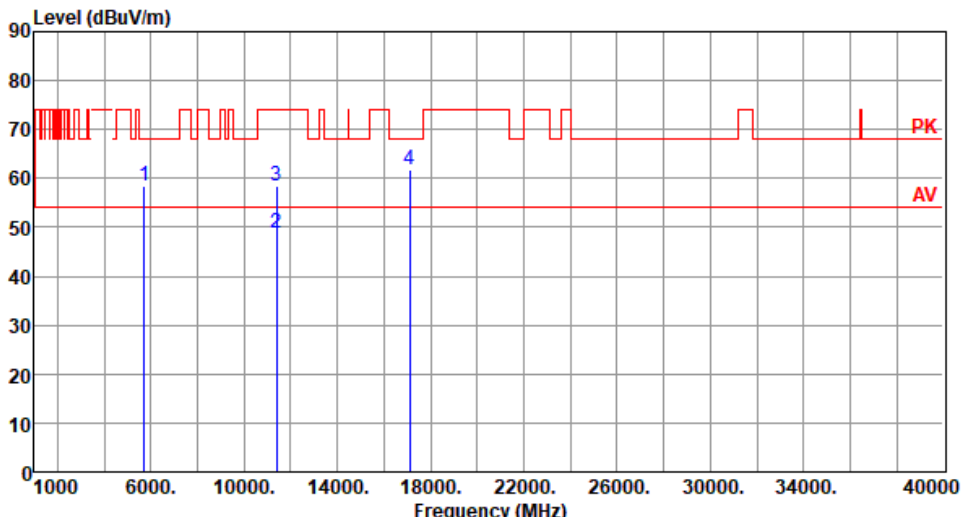
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5320																																																																						
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Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):24 Humidity(%):65			
Level (dBuV/m)			

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):24 Humidity(%):65			
Level (dBUV/m)			

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5580																																																																																
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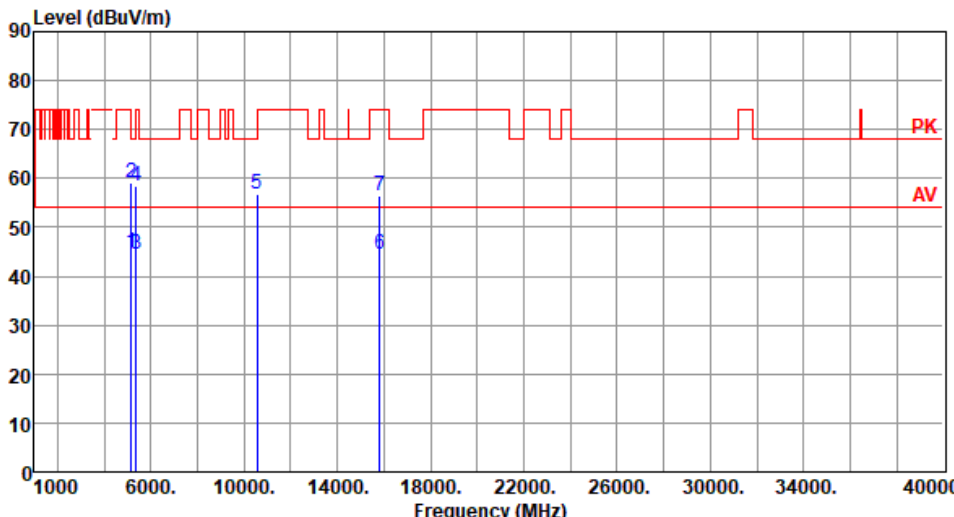
Modulation	ax HE20-OFDMA		Test Freq. (MHz)	5580																																																																																																					
Polarization	Vertical																																																																																																								
Test By :Roger Lu Temperature(°C):24 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>5460.00</td><td>44.45</td><td>54.00</td><td>-9.55</td><td>40.16</td><td>4.29</td><td>Average</td><td>151</td><td>189</td></tr><tr><td>2</td><td>5460.00</td><td>57.89</td><td>74.00</td><td>-16.11</td><td>53.60</td><td>4.29</td><td>Peak</td><td>151</td><td>189</td></tr><tr><td>3</td><td>5470.00</td><td>58.90</td><td>68.20</td><td>-9.30</td><td>54.58</td><td>4.32</td><td>Peak</td><td>151</td><td>189</td></tr><tr><td>4</td><td>5725.00</td><td>59.42</td><td>68.20</td><td>-8.78</td><td>54.62</td><td>4.80</td><td>Peak</td><td>151</td><td>189</td></tr><tr><td>5</td><td>11160.00</td><td>46.10</td><td>54.00</td><td>-7.90</td><td>32.25</td><td>13.85</td><td>Average</td><td>154</td><td>39</td></tr><tr><td>6</td><td>11160.00</td><td>56.14</td><td>74.00</td><td>-17.86</td><td>42.29</td><td>13.85</td><td>Peak</td><td>154</td><td>39</td></tr><tr><td>7</td><td>16740.00</td><td>60.44</td><td>68.20</td><td>-7.76</td><td>43.59</td><td>16.85</td><td>Peak</td><td>100</td><td>30</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	5460.00	44.45	54.00	-9.55	40.16	4.29	Average	151	189	2	5460.00	57.89	74.00	-16.11	53.60	4.29	Peak	151	189	3	5470.00	58.90	68.20	-9.30	54.58	4.32	Peak	151	189	4	5725.00	59.42	68.20	-8.78	54.62	4.80	Peak	151	189	5	11160.00	46.10	54.00	-7.90	32.25	13.85	Average	154	39	6	11160.00	56.14	74.00	-17.86	42.29	13.85	Peak	154	39	7	16740.00	60.44	68.20	-7.76	43.59	16.85	Peak	100	30
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																
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2	5460.00	57.89	74.00	-16.11	53.60	4.29	Peak	151	189																																																																																																
3	5470.00	58.90	68.20	-9.30	54.58	4.32	Peak	151	189																																																																																																
4	5725.00	59.42	68.20	-8.78	54.62	4.80	Peak	151	189																																																																																																
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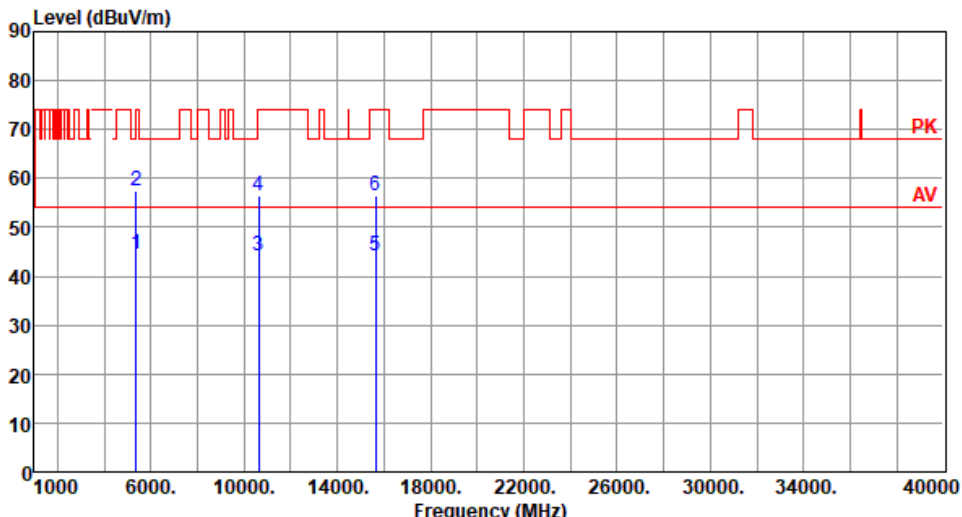
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5700																																																																						
Polarization	Horizontal																																																																								
Test By :Roger Lu Temperature(°C):24 Humidity(%):65																																																																									
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>5725.00</td><td>58.39</td><td>68.20</td><td>-9.81</td><td>53.59</td><td>4.80</td><td>Peak</td><td>112</td><td>290</td></tr><tr><td>2</td><td>11400.00</td><td>48.71</td><td>54.00</td><td>-5.29</td><td>34.67</td><td>14.04</td><td>Average</td><td>245</td><td>42</td></tr><tr><td>3</td><td>11400.00</td><td>58.42</td><td>74.00</td><td>-15.58</td><td>44.38</td><td>14.04</td><td>Peak</td><td>245</td><td>42</td></tr><tr><td>4</td><td>17100.00</td><td>61.69</td><td>68.20</td><td>-6.51</td><td>44.62</td><td>17.07</td><td>Peak</td><td>100</td><td>48</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	5725.00	58.39	68.20	-9.81	53.59	4.80	Peak	112	290	2	11400.00	48.71	54.00	-5.29	34.67	14.04	Average	245	42	3	11400.00	58.42	74.00	-15.58	44.38	14.04	Peak	245	42	4	17100.00	61.69	68.20	-6.51	44.62	17.07	Peak	100	48
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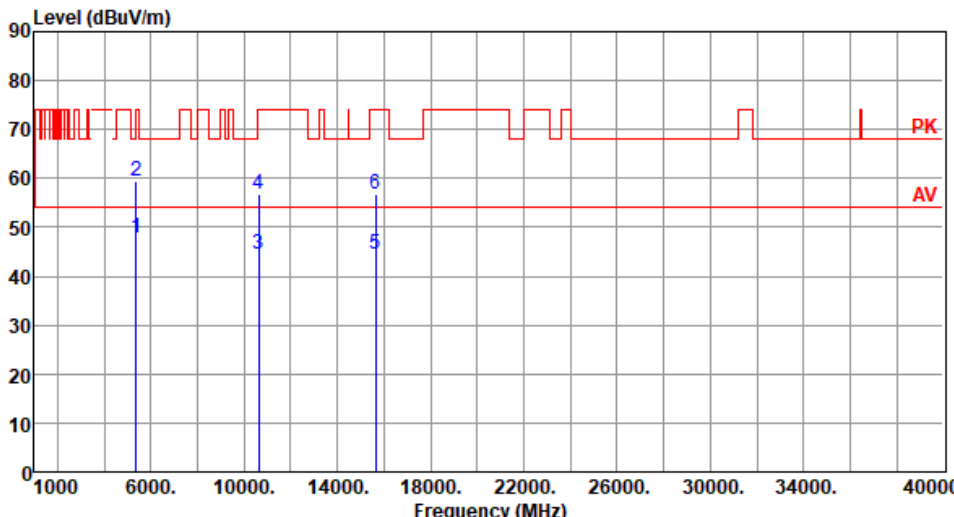
Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5700
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):24 Humidity(%):65			
Level (dBuV/m)			

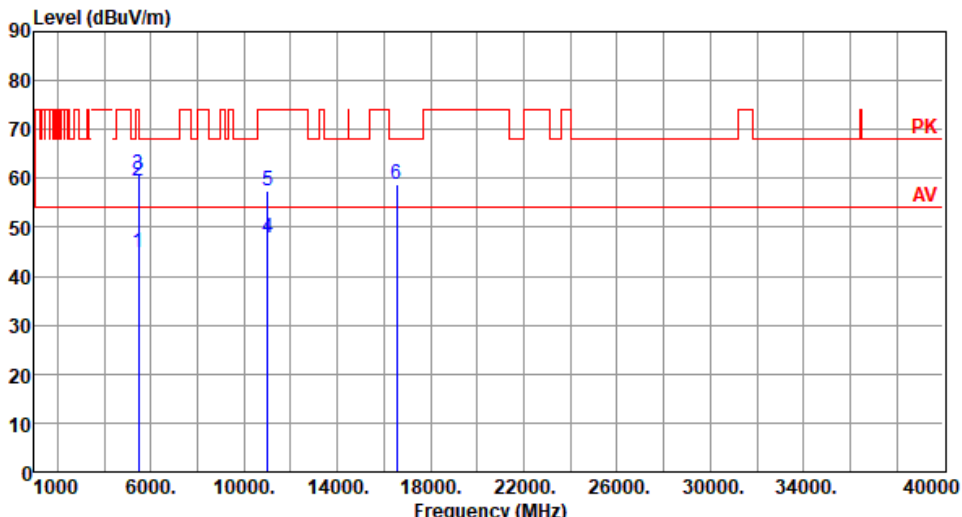
3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE40-OFDMA

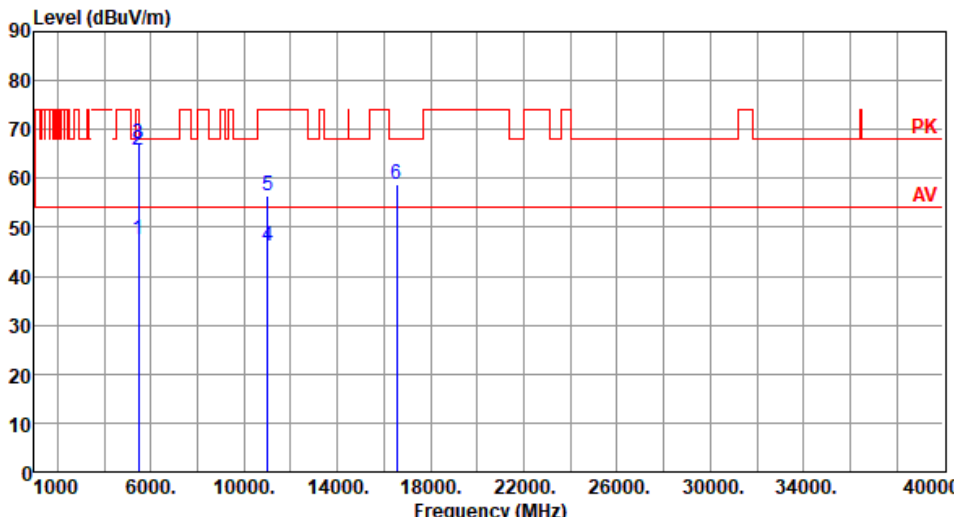
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5270
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m) </			

Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5270																																																																																																				
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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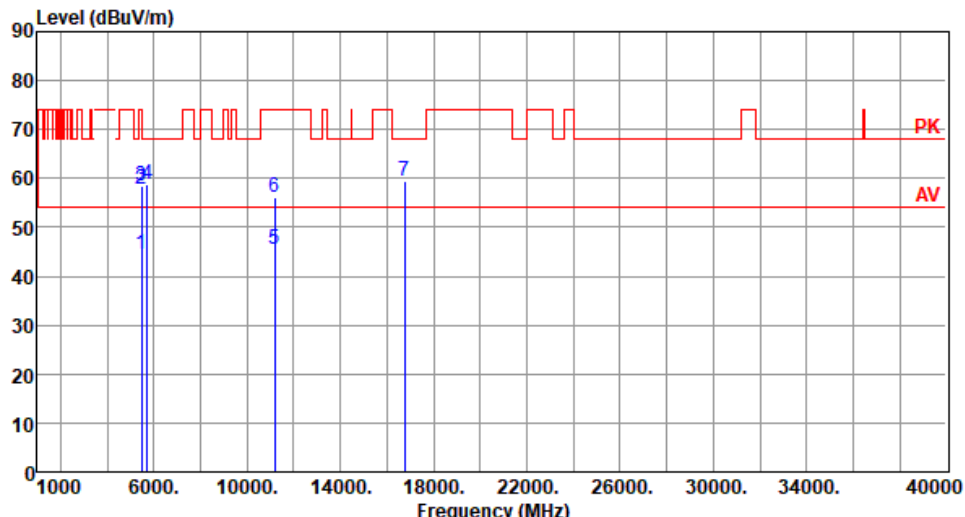
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5310																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																													
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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		dBuV/m			dBuV			cm	deg																																																																																				
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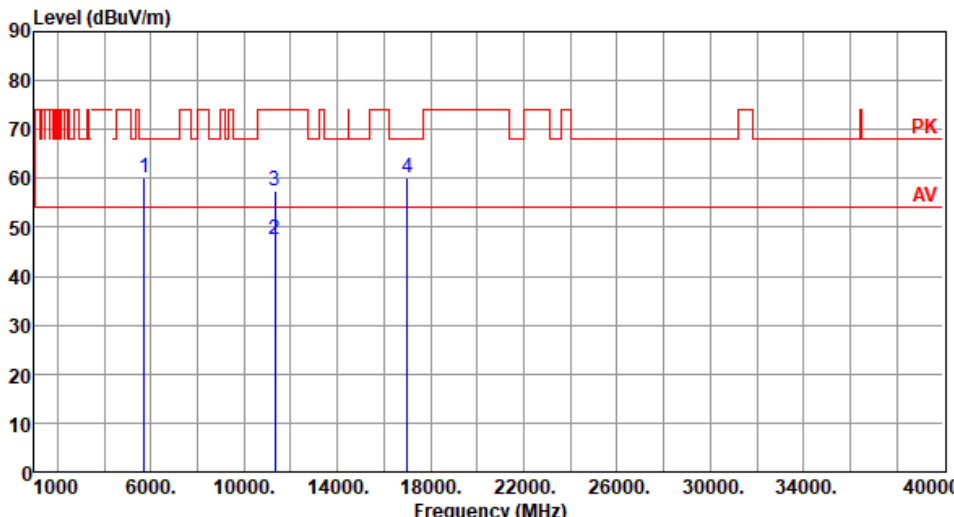
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5310																																																																																										
Polarization	Vertical																																																																																												
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5510																																																																																										
Polarization	Horizontal																																																																																												
Test By :Roger Lu Temperature(°C):24 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>5460.00</td><td>44.89</td><td>54.00</td><td>-9.11</td><td>40.60</td><td>4.29</td><td>Average</td><td>109</td><td>292</td></tr><tr><td>2</td><td>5460.00</td><td>59.56</td><td>74.00</td><td>-14.44</td><td>55.27</td><td>4.29</td><td>Peak</td><td>109</td><td>292</td></tr><tr><td>3</td><td>5470.00</td><td>60.62</td><td>68.20</td><td>-7.58</td><td>56.30</td><td>4.32</td><td>Peak</td><td>109</td><td>292</td></tr><tr><td>4</td><td>11020.00</td><td>47.81</td><td>54.00</td><td>-6.19</td><td>33.46</td><td>14.35</td><td>Average</td><td>233</td><td>44</td></tr><tr><td>5</td><td>11020.00</td><td>57.51</td><td>74.00</td><td>-16.49</td><td>43.16</td><td>14.35</td><td>Peak</td><td>233</td><td>44</td></tr><tr><td>6</td><td>16530.00</td><td>58.79</td><td>68.20</td><td>-9.41</td><td>42.60</td><td>16.19</td><td>Peak</td><td>100</td><td>60</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	5460.00	44.89	54.00	-9.11	40.60	4.29	Average	109	292	2	5460.00	59.56	74.00	-14.44	55.27	4.29	Peak	109	292	3	5470.00	60.62	68.20	-7.58	56.30	4.32	Peak	109	292	4	11020.00	47.81	54.00	-6.19	33.46	14.35	Average	233	44	5	11020.00	57.51	74.00	-16.49	43.16	14.35	Peak	233	44	6	16530.00	58.79	68.20	-9.41	42.60	16.19	Peak	100	60
	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	5460.00	44.89	54.00	-9.11	40.60	4.29	Average	109	292																																																																																				
2	5460.00	59.56	74.00	-14.44	55.27	4.29	Peak	109	292																																																																																				
3	5470.00	60.62	68.20	-7.58	56.30	4.32	Peak	109	292																																																																																				
4	11020.00	47.81	54.00	-6.19	33.46	14.35	Average	233	44																																																																																				
5	11020.00	57.51	74.00	-16.49	43.16	14.35	Peak	233	44																																																																																				
6	16530.00	58.79	68.20	-9.41	42.60	16.19	Peak	100	60																																																																																				
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																																																																													

Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5510																																																																																
Polarization	Vertical																																																																																		
Test By :Roger Lu Temperature(°C):24 Humidity(%):65																																																																																			
Level (dBUV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission level</th><th>Limit</th><th>Margin</th><th>SA reading</th><th>Factor</th><th>Remark</th><th>ANT High</th><th>Turn Table</th></tr><tr><th></th><th>MHz</th><th>dBUV/m</th><th>dBUV/m</th><th>dB</th><th>dBUV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5460.00</td><td>47.42</td><td>54.00</td><td>-6.58</td><td>43.13</td><td>4.29</td><td>Average</td><td>181</td><td>144</td></tr><tr><td>2</td><td>5460.00</td><td>65.81</td><td>74.00</td><td>-8.19</td><td>61.52</td><td>4.29</td><td>Peak</td><td>181</td><td>144</td></tr><tr><td>3</td><td>5470.00</td><td>66.99</td><td>68.20</td><td>-1.21</td><td>62.67</td><td>4.32</td><td>Peak</td><td>181</td><td>169</td></tr><tr><td>4</td><td>11020.00</td><td>46.25</td><td>54.00</td><td>-7.75</td><td>31.90</td><td>14.35</td><td>Average</td><td>143</td><td>22</td></tr><tr><td>5</td><td>11020.00</td><td>56.62</td><td>74.00</td><td>-17.38</td><td>42.27</td><td>14.35</td><td>Peak</td><td>143</td><td>22</td></tr><tr><td>6</td><td>16530.00</td><td>58.66</td><td>68.20</td><td>-9.54</td><td>42.47</td><td>16.19</td><td>Peak</td><td>100</td><td>40</td></tr></table>					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	5460.00	47.42	54.00	-6.58	43.13	4.29	Average	181	144	2	5460.00	65.81	74.00	-8.19	61.52	4.29	Peak	181	144	3	5470.00	66.99	68.20	-1.21	62.67	4.32	Peak	181	169	4	11020.00	46.25	54.00	-7.75	31.90	14.35	Average	143	22	5	11020.00	56.62	74.00	-17.38	42.27	14.35	Peak	143	22	6	16530.00	58.66	68.20	-9.54	42.47	16.19	Peak	100	40
	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	5460.00	47.42	54.00	-6.58	43.13	4.29	Average	181	144																																																																										
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3	5470.00	66.99	68.20	-1.21	62.67	4.32	Peak	181	169																																																																										
4	11020.00	46.25	54.00	-7.75	31.90	14.35	Average	143	22																																																																										
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																																																																			

Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5590
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):24 Humidity(%):65			
Level (dBuV/m) <			

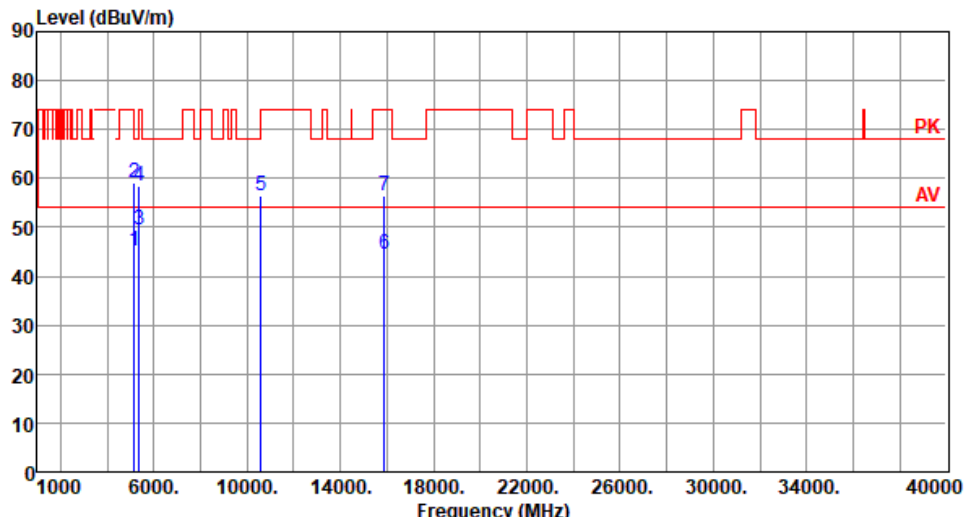
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5590																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Roger Lu Temperature(°C):24 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>5460.00</td><td>44.56</td><td>54.00</td><td>-9.44</td><td>40.27</td><td>4.29</td><td>Average</td><td>152</td><td>160</td></tr><tr><td>2</td><td>5460.00</td><td>57.86</td><td>74.00</td><td>-16.14</td><td>53.57</td><td>4.29</td><td>Peak</td><td>152</td><td>160</td></tr><tr><td>3</td><td>5470.00</td><td>58.30</td><td>68.20</td><td>-9.90</td><td>53.98</td><td>4.32</td><td>Peak</td><td>152</td><td>160</td></tr><tr><td>4</td><td>5725.00</td><td>58.82</td><td>68.20</td><td>-9.38</td><td>54.02</td><td>4.80</td><td>Peak</td><td>152</td><td>160</td></tr><tr><td>5</td><td>11180.00</td><td>45.44</td><td>54.00</td><td>-8.56</td><td>31.67</td><td>13.77</td><td>Average</td><td>152</td><td>28</td></tr><tr><td>6</td><td>11180.00</td><td>56.10</td><td>74.00</td><td>-17.90</td><td>42.33</td><td>13.77</td><td>Peak</td><td>152</td><td>28</td></tr><tr><td>7</td><td>16770.00</td><td>59.57</td><td>68.20</td><td>-8.63</td><td>42.59</td><td>16.98</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	5460.00	44.56	54.00	-9.44	40.27	4.29	Average	152	160	2	5460.00	57.86	74.00	-16.14	53.57	4.29	Peak	152	160	3	5470.00	58.30	68.20	-9.90	53.98	4.32	Peak	152	160	4	5725.00	58.82	68.20	-9.38	54.02	4.80	Peak	152	160	5	11180.00	45.44	54.00	-8.56	31.67	13.77	Average	152	28	6	11180.00	56.10	74.00	-17.90	42.33	13.77	Peak	152	28	7	16770.00	59.57	68.20	-8.63	42.59	16.98	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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1	5460.00	44.56	54.00	-9.44	40.27	4.29	Average	152	160																																																																																														
2	5460.00	57.86	74.00	-16.14	53.57	4.29	Peak	152	160																																																																																														
3	5470.00	58.30	68.20	-9.90	53.98	4.32	Peak	152	160																																																																																														
4	5725.00	58.82	68.20	-9.38	54.02	4.80	Peak	152	160																																																																																														
5	11180.00	45.44	54.00	-8.56	31.67	13.77	Average	152	28																																																																																														
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																							

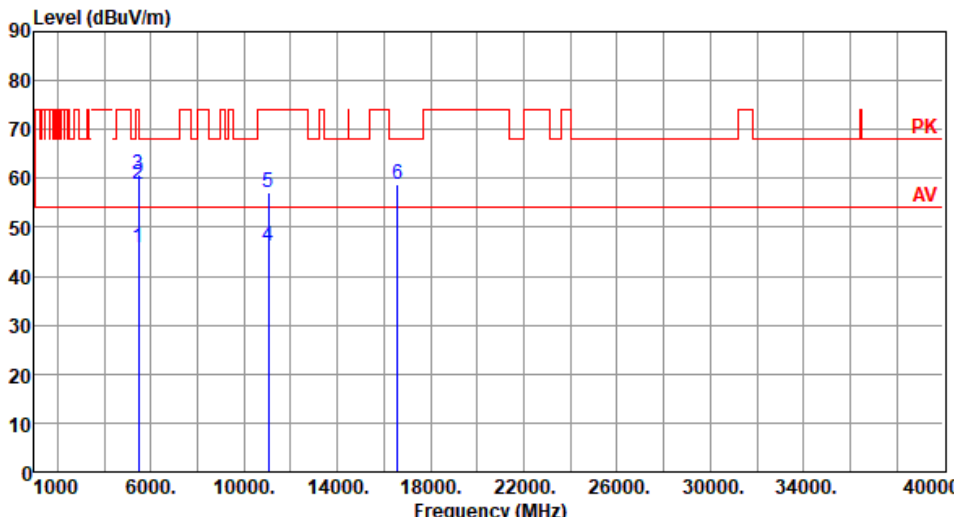
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5670																																																		
Polarization	Horizontal																																																				
Test By :Roger Lu Temperature(°C):24 Humidity(%):65																																																					
Level (dBUV/m)  Frequency (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>5725.00</td><td>60.05</td><td>68.20</td><td>-8.15</td><td>55.25</td><td>4.80</td><td>Peak</td><td>103</td><td>297</td></tr><tr><td>2</td><td>11340.00</td><td>47.46</td><td>54.00</td><td>-6.54</td><td>33.59</td><td>13.87</td><td>Average</td><td>236</td><td>42</td></tr><tr><td>3</td><td>11340.00</td><td>57.46</td><td>74.00</td><td>-16.54</td><td>43.59</td><td>13.87</td><td>Peak</td><td>236</td><td>42</td></tr><tr><td>4</td><td>17010.00</td><td>60.07</td><td>68.20</td><td>-8.13</td><td>43.11</td><td>16.96</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	5725.00	60.05	68.20	-8.15	55.25	4.80	Peak	103	297	2	11340.00	47.46	54.00	-6.54	33.59	13.87	Average	236	42	3	11340.00	57.46	74.00	-16.54	43.59	13.87	Peak	236	42	4	17010.00	60.07	68.20	-8.13	43.11	16.96	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	5725.00	60.05	68.20	-8.15	55.25	4.80	Peak	103	297																																												
2	11340.00	47.46	54.00	-6.54	33.59	13.87	Average	236	42																																												
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4	17010.00	60.07	68.20	-8.13	43.11	16.96	Peak	100	50																																												
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																																					

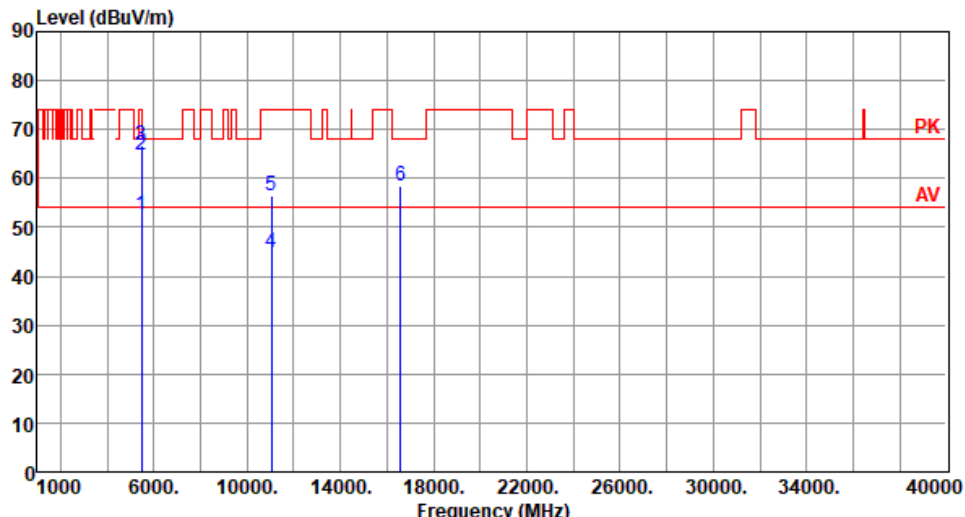
Modulation	ax HE40-OFDMA	Test Freq. (MHz)	5670
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):24 Humidity(%):65			
Level (dBUV/m) <			

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

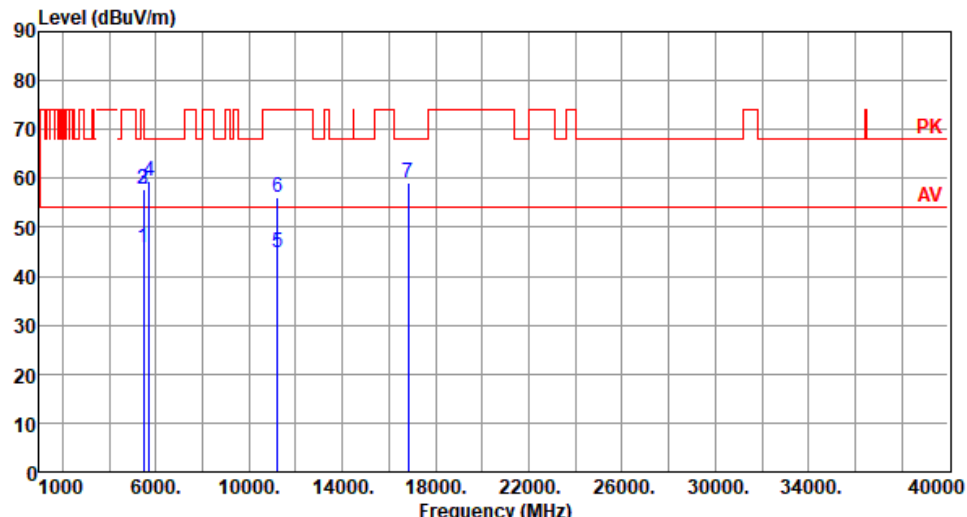
Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5290
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m)			

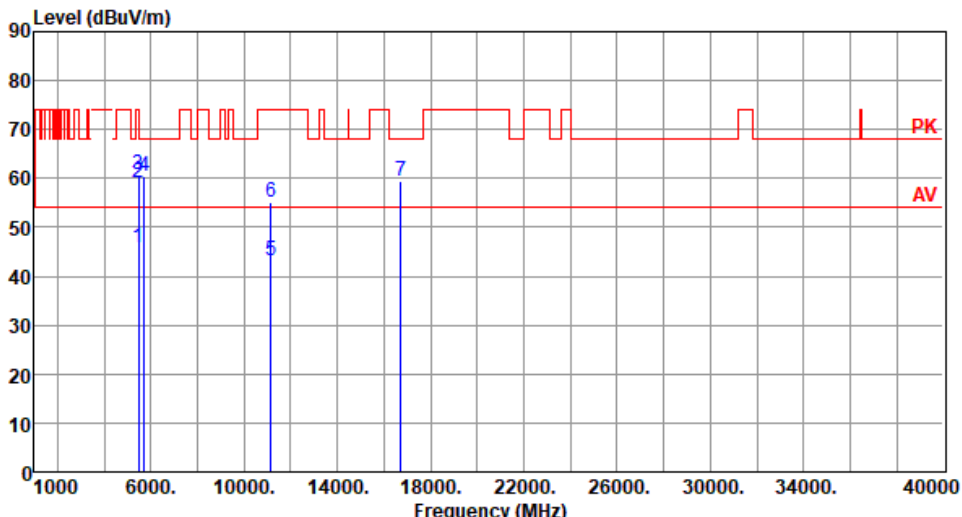
Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5290																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>45.09</td><td>54.00</td><td>-8.91</td><td>40.88</td><td>4.21</td><td>Average</td><td>342</td><td>185</td></tr><tr><td>2</td><td>5150.00</td><td>58.99</td><td>74.00</td><td>-15.01</td><td>54.78</td><td>4.21</td><td>Peak</td><td>342</td><td>185</td></tr><tr><td>3</td><td>5350.00</td><td>49.52</td><td>54.00</td><td>-4.48</td><td>45.64</td><td>3.88</td><td>Average</td><td>342</td><td>185</td></tr><tr><td>4</td><td>5350.00</td><td>58.57</td><td>74.00</td><td>-15.43</td><td>54.69</td><td>3.88</td><td>Peak</td><td>342</td><td>185</td></tr><tr><td>5</td><td>10580.00</td><td>56.49</td><td>68.20</td><td>-11.71</td><td>42.41</td><td>14.08</td><td>Peak</td><td>100</td><td>104</td></tr><tr><td>6</td><td>15870.00</td><td>44.37</td><td>54.00</td><td>-9.63</td><td>30.48</td><td>13.89</td><td>Average</td><td>100</td><td>106</td></tr><tr><td>7</td><td>15870.00</td><td>56.37</td><td>74.00</td><td>-17.63</td><td>42.48</td><td>13.89</td><td>Peak</td><td>100</td><td>106</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	45.09	54.00	-8.91	40.88	4.21	Average	342	185	2	5150.00	58.99	74.00	-15.01	54.78	4.21	Peak	342	185	3	5350.00	49.52	54.00	-4.48	45.64	3.88	Average	342	185	4	5350.00	58.57	74.00	-15.43	54.69	3.88	Peak	342	185	5	10580.00	56.49	68.20	-11.71	42.41	14.08	Peak	100	104	6	15870.00	44.37	54.00	-9.63	30.48	13.89	Average	100	106	7	15870.00	56.37	74.00	-17.63	42.48	13.89	Peak	100	106
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																														
								cm	deg																																																																																														
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2	5150.00	58.99	74.00	-15.01	54.78	4.21	Peak	342	185																																																																																														
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Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5530																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):25 Humidity(%):63																																																																																													
Level (dBUV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>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>5460.00</td><td>45.86</td><td>54.00</td><td>-8.14</td><td>41.57</td><td>4.29</td><td>Average</td><td>106</td><td>294</td></tr><tr><td>2</td><td>5460.00</td><td>58.86</td><td>74.00</td><td>-15.14</td><td>54.57</td><td>4.29</td><td>Peak</td><td>106</td><td>294</td></tr><tr><td>3</td><td>5470.00</td><td>60.91</td><td>68.20</td><td>-7.29</td><td>56.59</td><td>4.32</td><td>Peak</td><td>106</td><td>294</td></tr><tr><td>4</td><td>11060.00</td><td>46.08</td><td>54.00</td><td>-7.92</td><td>31.85</td><td>14.23</td><td>Average</td><td>226</td><td>57</td></tr><tr><td>5</td><td>11060.00</td><td>56.98</td><td>74.00</td><td>-17.02</td><td>42.75</td><td>14.23</td><td>Peak</td><td>226</td><td>57</td></tr><tr><td>6</td><td>16590.00</td><td>58.65</td><td>68.20</td><td>-9.55</td><td>42.56</td><td>16.09</td><td>Peak</td><td>100</td><td>52</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	5460.00	45.86	54.00	-8.14	41.57	4.29	Average	106	294	2	5460.00	58.86	74.00	-15.14	54.57	4.29	Peak	106	294	3	5470.00	60.91	68.20	-7.29	56.59	4.32	Peak	106	294	4	11060.00	46.08	54.00	-7.92	31.85	14.23	Average	226	57	5	11060.00	56.98	74.00	-17.02	42.75	14.23	Peak	226	57	6	16590.00	58.65	68.20	-9.55	42.56	16.09	Peak	100	52
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Modulation	ax HE80-OFDMA		Test Freq. (MHz)	5530																																																																																											
Polarization	Vertical																																																																																														
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Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5610
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):24 Humidity(%):65			
Level (dBuV/m)			

Modulation	ax HE80-OFDMA	Test Freq. (MHz)	5610																																																																																																				
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Modulation	ax HE160-OFDMA	Test Freq. (MHz)	5570																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):69																																																																																																							
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Modulation	ax HE160-OFDMA	Test Freq. (MHz)	5570
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):69			
Level (dBuV/m) </			

3.6 Frequency Stability

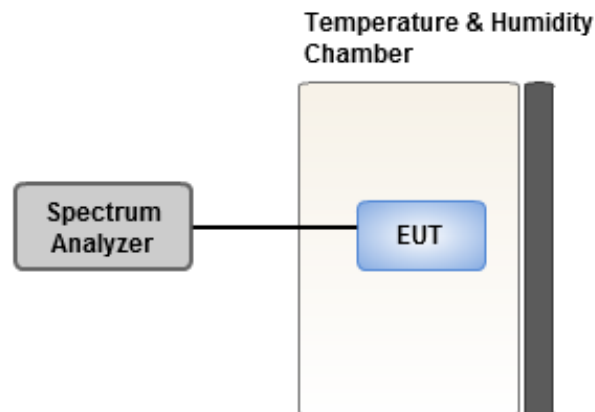
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Ambient Condition	21-23°C / 63-65%	Tested By	Brad Wu
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Frequency: 5300 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	-2.78	-2.55	-3.43	-3.06
T20°C Vmin	-3.53	-2.49	-2.85	-2.91
T60°C Vnom	-3.25	-3.92	-2.96	-3.87
T50°C Vnom	-3.28	-3.75	-4.14	-4.55
T40°C Vnom	-3.37	-3.52	-3.08	-2.32
T30°C Vnom	-3.28	-3.23	-3.94	-3.02
T20°C Vnom	-3.69	-3.16	-3.87	-3.44
T10°C Vnom	-4.41	-4.39	-3.16	-3.40
T0°C Vnom	-2.95	-2.75	-2.97	-2.71
T-10°C Vnom	-2.16	-1.88	-2.48	-2.21
T-20°C Vnom	-2.67	-1.77	-2.10	-1.94
T-30°C Vnom	-3.96	-3.76	-3.66	-3.76
Vnom [V]: 120		Vmax [V]: 138		Vmin [V]: 102
Tnom [°C]: 20		Tmax [°C]: 60		Tmin [°C]: -30

Frequency: 5580 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	-4.27	-3.06	-3.57	-3.59
T20°C Vmin	-3.15	-3.52	-3.34	-2.78
T60°C Vnom	-3.75	-3.61	-3.72	-3.67
T50°C Vnom	-3.95	-4.29	-3.84	-3.72
T40°C Vnom	-2.72	-2.54	-3.51	-3.02
T30°C Vnom	-3.66	-3.84	-4.02	-4.15
T20°C Vnom	-2.72	-3.18	-3.41	-2.67
T10°C Vnom	-3.54	-4.35	-3.72	-3.48
T0°C Vnom	-3.07	-2.63	-3.32	-2.90
T-10°C Vnom	-2.37	-3.18	-3.36	-2.70
T-20°C Vnom	-3.92	-3.10	-3.88	-3.57
T-30°C Vnom	-4.12	-3.21	-3.10	-3.47
Vnom [V]: 120		Vmax [V]: 138		Vmin [V]: 102
Tnom [°C]: 20		Tmax [°C]: 60		Tmin [°C]: -30

4 Test laboratory information

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

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

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

Linkou

Tel: 886-2-2601-1640

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

Kwei Shan

Tel: 886-3-271-8666

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

Kwei Shan Site II

Tel: 886-3-271-8640

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

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

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

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