

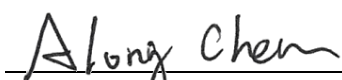
FCC Test Report

FCC ID : MXF-Q9500WK
Equipment : Wi-Fi AP
Model No. : Q9500WK
Brand Name : Quantum FIBER
Applicant : Gemtek Technology Co., Ltd.
Address : No. 15-1 Zhonghua Road, Hsinchu Industrial Park,
Hukou, Hsinchu, Taiwan, 30352.
Standard : 47 CFR FCC Part 15.407
Received Date : Jun. 25, 2022
Tested Date : Jun. 25 ~ Jul. 14, 2022

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

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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Appendix A. Emission Bandwidth

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Release Record

Report No.	Version	Description	Issued Date
FR263001AN	Rev. 01	Initial issue	Aug. 19, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.419MHz 47.63 (Margin -9.83dB) - QP	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5150.00MHz 53.89 (Margin -0.11dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: Non-beamforming mode 5150-5250MHz: 25.52 5725-5850MHz: 27.66 Beamforming mode 5150-5250MHz: 25.45 5725-5850MHz: 27.59	Pass
15.407(a)	Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

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

Comments and Explanations:

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

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5725-5850	a	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2 4	6-54 Mbps
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2 4	MCS 0-31
5150-5250 5725-5850	n (HT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2 4	MCS 0-31
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2 4	MCS 0-9
5150-5250 5725-5850	ac (VHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2 4	MCS 0-9
5150-5250 5725-5850	ac (VHT80)	5210 5775	42 [1] 155 [1]	2 4	MCS 0-9
5150-5250 5725-5850	ax (HE20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2 4	MCS 0-11
5150-5250 5725-5850	ax (HE40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2 4	MCS 0-11
5150-5250 5725-5850	ax (HE80)	5210 5775	42 [1] 155 [1]	2 4	MCS 0-11

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

1.1.2 Antenna Details

Ant. No.	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
			2400~2483.5	5150~5250	5725~5850
2G5GL Ant1	PIFA	UFL	2.29	1.94	--
2G5GL Ant2	PIFA	UFL	2.13	2.42	--
5GH Ant1	PIFA	UFL	--	--	2.26
5GH Ant2	PIFA	UFL	--	--	2.18
5GH Ant3	PIFA	UFL	--	--	3.22
5GH Ant4	PIFA	UFL	--	--	2.42

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	100~120Vac
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1.1.4 Source of Power Board

Source of Power Board	Description
1	Brand: Leader Model: SL36-3120300-3C I/P: 100~120Vac, 50-60Hz, 0.8A O/P: 12Vdc, 3A
2	Brand: LUCENT TRANS Model: 1A104-US1230 I/P: 100~120Vac, 50-60Hz, 1A O/P: 12Vdc, 3A

1.1.5 Channel List

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

1.1.6 Test Tool and Duty Cycle

Test Tool	Intel DUT, version: 610.50		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	100.00%	0.00
	ax HE20-OFDMA	100.00%	0.00
	ax HE40-OFDMA	100.00%	0.00
	ax HE80-OFDMA	100.00%	0.00

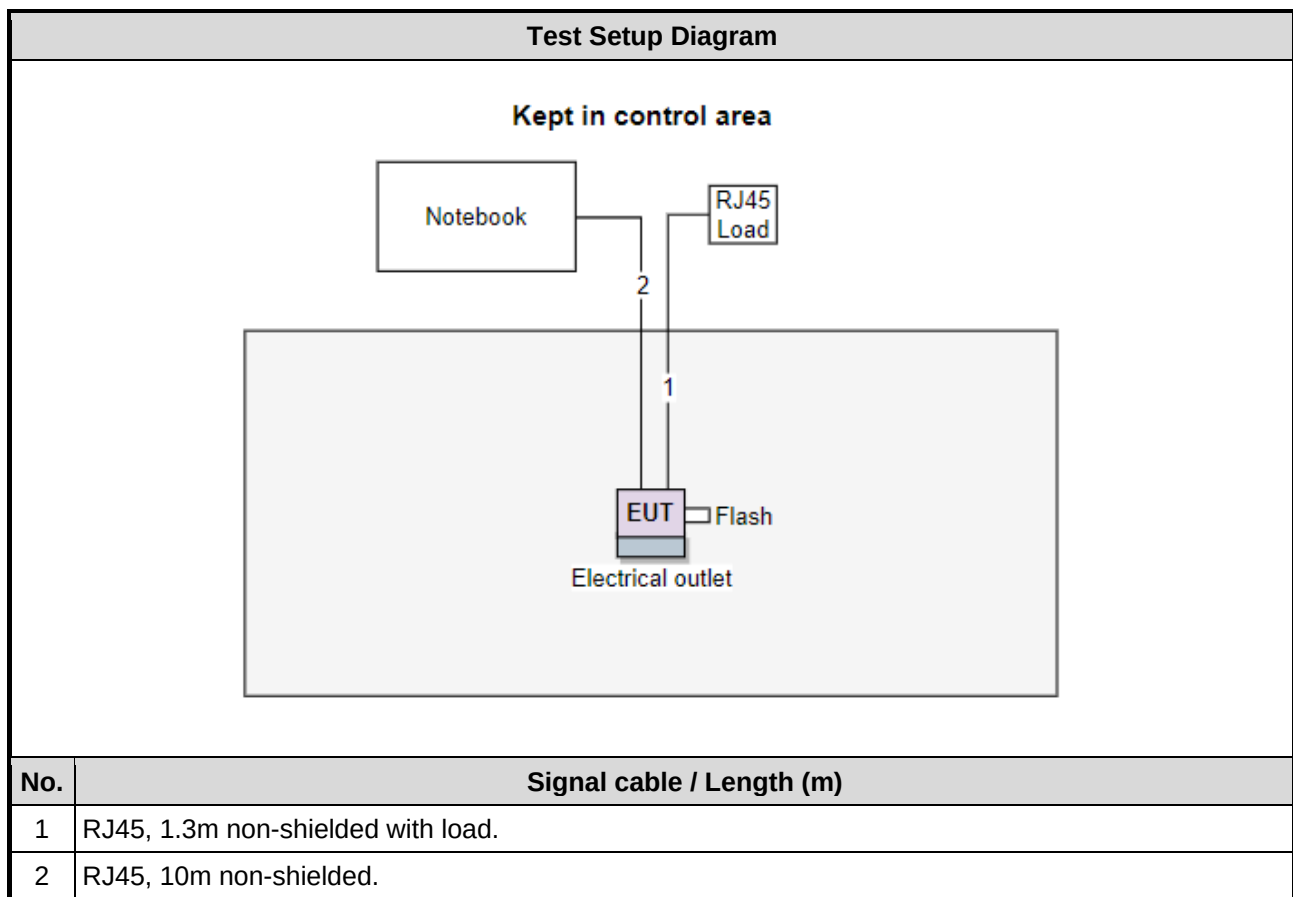
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	22
11a	5200	24.5
11a	5240	23.5
11a	5745	20
11a	5785	20
11a	5825	20
ax HE20-OFDMA	5180	21
ax HE20-OFDMA	5200	24.5
ax HE20-OFDMA	5240	24
ax HE20-OFDMA	5745	20
ax HE20-OFDMA	5785	20
ax HE20-OFDMA	5825	20
ax HE40-OFDMA	5190	17.5
ax HE40-OFDMA	5230	24.5
ax HE40-OFDMA	5755	20
ax HE40-OFDMA	5795	20
ax HE80-OFDMA	5210	16.5
ax HE80-OFDMA	5775	20

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	USB 3.0 Flash	Transcend	JetFlash 700	---	---
3	RJ45 Load	ICC	DTSE9	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission below 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jul. 07, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jun. 28, 2022	Jun. 27, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2022	Jun. 27, 2023
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	Jun. 25 ~ Jun. 28, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jul. 12, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	NSLK 8127	8127667	Jan. 07, 2022	Jan. 06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 10, 2022	May 09, 2023
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	Jun. 29 ~ Jul. 14, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2022	Apr. 17, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GTH-150-40-CP-AR-T	MAA1407-012	Sep. 08, 2021	Sep. 07, 2022
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 03, 2021	Dec. 02, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10.7.20	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
Unwanted Emission ≤ 1 GHz	± 3.41 dB
Unwanted 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

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
Conducted Emissions	ax HE20-OFDMA	5200	MCS 0	---
Radiated Emissions ≤1GHz	ax HE20-OFDMA	5200	MCS 0	---
RF Output Power	11a	5180 / 5200 / 5240	6 Mbps	---
Radiated Emissions >1GHz	ax HE20-OFDMA	5180 / 5200 / 5240	MCS 0	
Emission Bandwidth	ax HE40-OFDMA	5190 / 5230	MCS 0	
Peak Power Spectral Density	ax HE80-OFDMA	5210	MCS 0	
Frequency Stability	Un-modulation	5200	---	---
Beamforming mode				
RF Output Power	ax HE20-OFDMA ax HE40-OFDMA ax HE80-OFDMA	5180 / 5200 / 5240 5190 / 5230 5210	MCS 0 MCS 0 MCS 0	---
For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	ax HE20-OFDMA	5745	MCS 0	---
Radiated Emissions ≤1GHz	ax HE20-OFDMA	5745	MCS 0	---
Radiated Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	---
Emission Bandwidth	ax HE20-OFDMA	5745 / 5785 / 5825	MCS 0	
6dB bandwidth	ax HE40-OFDMA	5755 / 5795	MCS 0	
Peak Power Spectral Density	ax HE80-OFDMA	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	---
Beamforming mode				
RF Output Power	ax HE20-OFDMA ax HE40-OFDMA ax HE80-OFDMA	5745 / 5785 / 5825 5755 / 5795 5775	MCS 0 MCS 0 MCS 0	---
NOTE:				
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.				
2. Two power boards (Leader & LUCENT TRANS) had been covered during the pretest and found that Leader power board was the worst case and was selected for final test.				
3. Non-beamforming and beamforming mode had been covered during the pretest. The worst mode is Non-beamforming thus Non-beamforming is tested for all test items.				

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit of Emission Bandwidth

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

3.1.2 Test Procedures

26dB Bandwidth

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

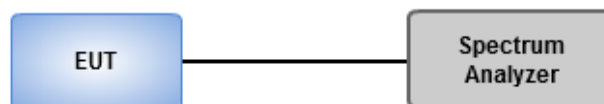
Occupied Bandwidth

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

6dB Bandwidth

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

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	23-24°C / 64-68%	Tested By	Roger Lu
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

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

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

3.2.2 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.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	23-24°C / 64-68%	Tested By	Roger Lu
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Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Peak Power Spectral Density

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

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

3.3.2 Test Procedures

For 5150 ~ 5250 MHz

Duty cycle $\geq 98\%$

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

Duty cycle $< 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
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.

For 5725 ~ 5850 MHz

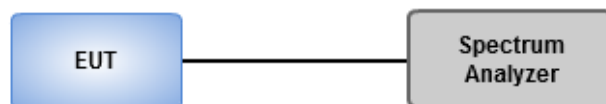
Duty cycle $\geq 98\%$

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

Duty cycle $< 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
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.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	23-24°C / 64-68%	Tested By	Roger Lu
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Refer to Appendix C.

3.4 Unwanted Emissions

3.4.1 Limit of Unwanted Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

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

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

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

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

3.4.2 Test Procedures

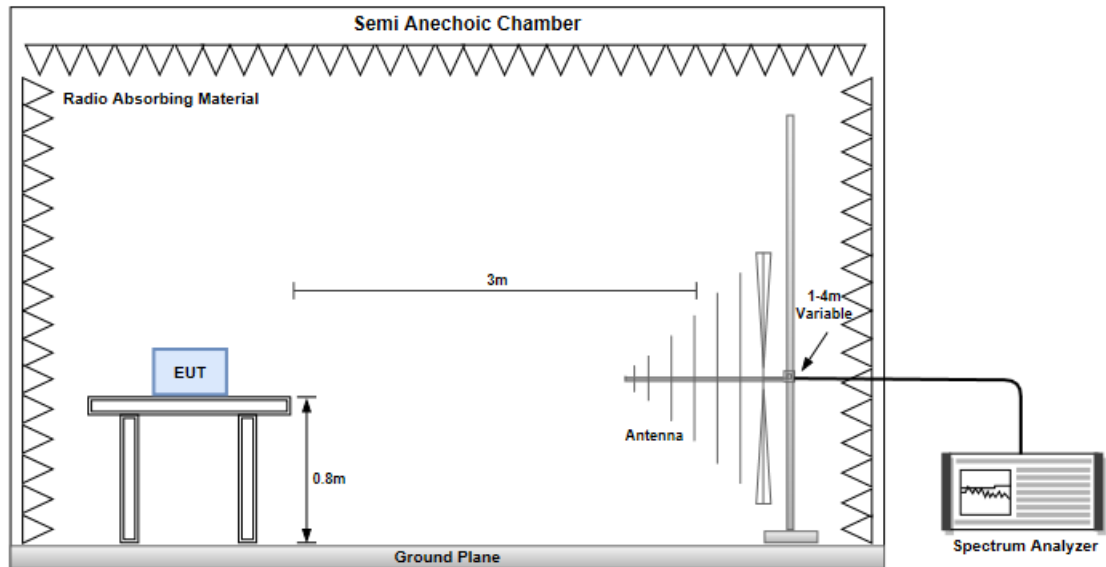
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

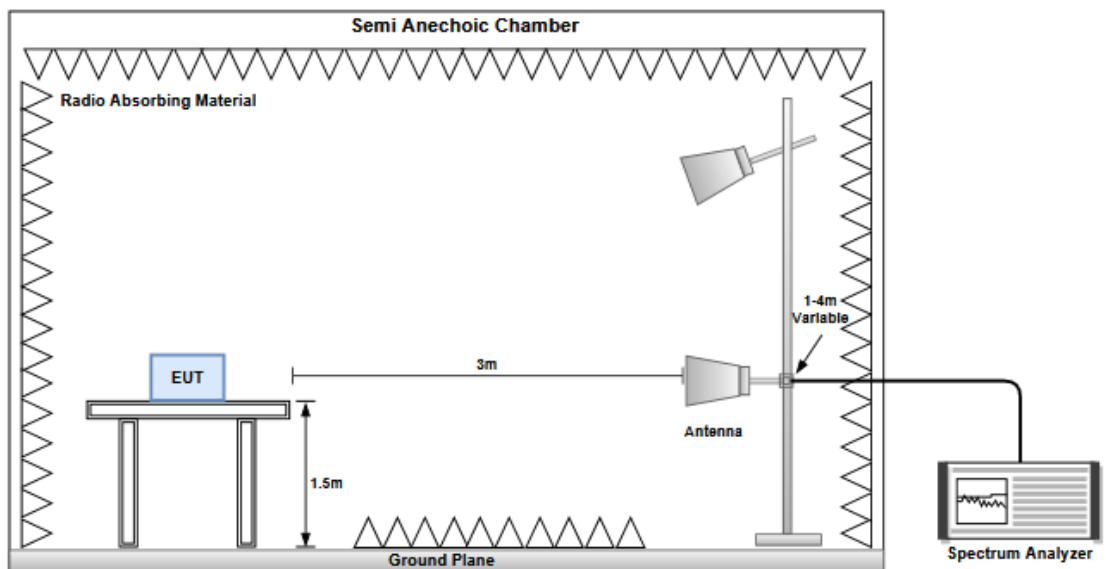
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Frequency Stability

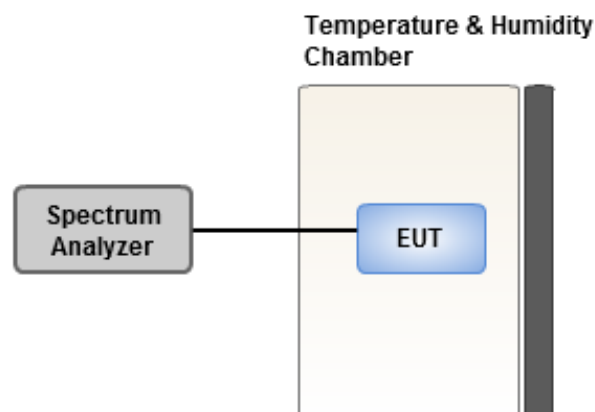
3.5.1 Limit of Frequency Stability

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.

3.5.2 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.

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	23-24°C / 64-68%	Tested By	Roger Lu
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

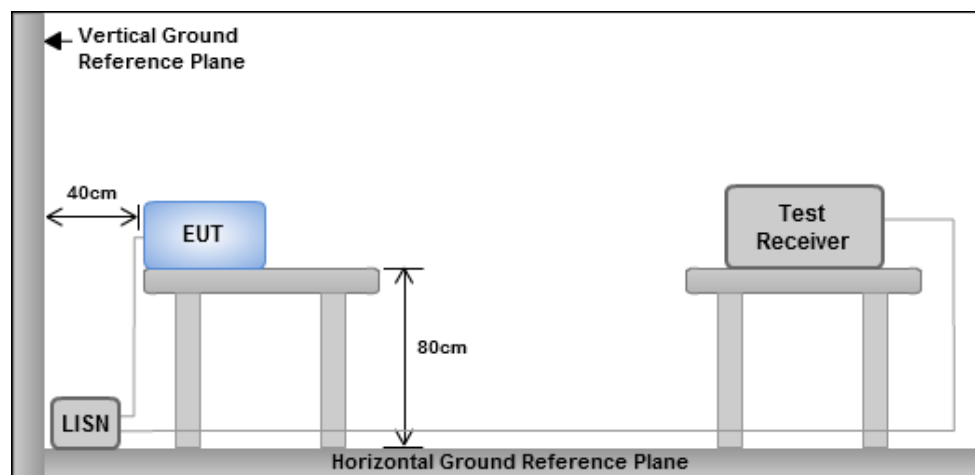
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.6.2 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

3.6.3 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

3.6.4 Test Results

Refer to Appendix F.

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

==END==

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	37.536M	19.609M	19M6D1D	27.319M	16.86M
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	40.29M	20.695M	20M7D1D	22.246M	18.958M
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	85.362M	40.087M	40M1D1D	41.014M	37.916M
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	83.478M	77.279M	77M3D1D	82.899M	77.279M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.594M	17.077M	17M1D1D	16.377M	16.643M
802.11ax HEW20_Nss1,(MCS0)_4TX-OFDMA	19.13M	19.32M	19M3D1D	18.986M	18.958M
802.11ax HEW40_Nss1,(MCS0)_4TX-OFDMA	38.116M	38.495M	38M5D1D	37.826M	37.771M
802.11ax HEW80_Nss1,(MCS0)_4TX-OFDMA	78.261M	77.569M	77M6D1D	77.971M	77.569M

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 / Minimum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	27.319M	16.86M	34.348M	17.077M				
5200MHz	Pass	Inf	36.812M	17.438M	37.464M	18.524M				
5240MHz	Pass	Inf	36.232M	17.583M	37.536M	19.609M				
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	16.594M	16.787M	16.594M	16.932M	16.594M	16.787M	16.594M	16.715M
5785MHz	Pass	500k	16.522M	16.787M	16.594M	17.077M	16.594M	16.86M	16.522M	16.932M
5825MHz	Pass	500k	16.377M	16.643M	16.594M	16.787M	16.522M	16.86M	16.522M	16.715M
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.391M	18.958M	22.246M	18.958M				
5200MHz	Pass	Inf	35.58M	19.537M	37.826M	19.682M				
5240MHz	Pass	Inf	34.348M	19.175M	40.29M	20.695M				
802.11ax HEW20_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	19.13M	19.103M	19.058M	19.03M	19.058M	19.03M	19.13M	18.958M
5785MHz	Pass	500k	18.986M	19.175M	18.986M	19.247M	19.058M	19.32M	18.986M	19.247M
5825MHz	Pass	500k	19.13M	19.103M	19.13M	19.103M	19.13M	19.103M	19.058M	19.03M
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	42.609M	38.061M	41.014M	37.916M				
5230MHz	Pass	Inf	69.13M	38.205M	85.362M	40.087M				
802.11ax HEW40_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	37.971M	38.495M	37.971M	38.205M	37.826M	37.916M	37.826M	37.916M
5795MHz	Pass	500k	38.116M	38.061M	38.116M	38.061M	37.971M	37.771M	38.116M	37.771M
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	83.478M	77.279M	82.899M	77.279M				
802.11ax HEW80_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	78.261M	77.569M	77.971M	77.569M	77.971M	77.569M	77.971M	77.569M

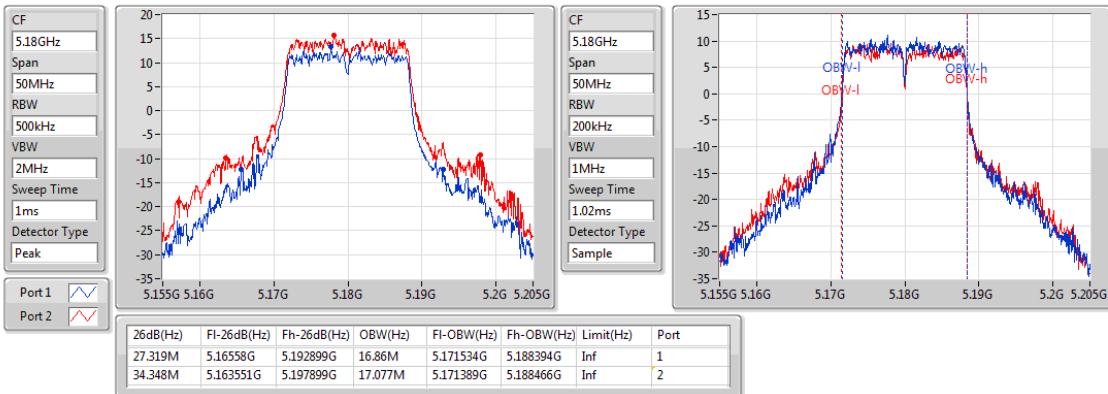
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11a_Nss1,(6Mbps)_2TX

EBW

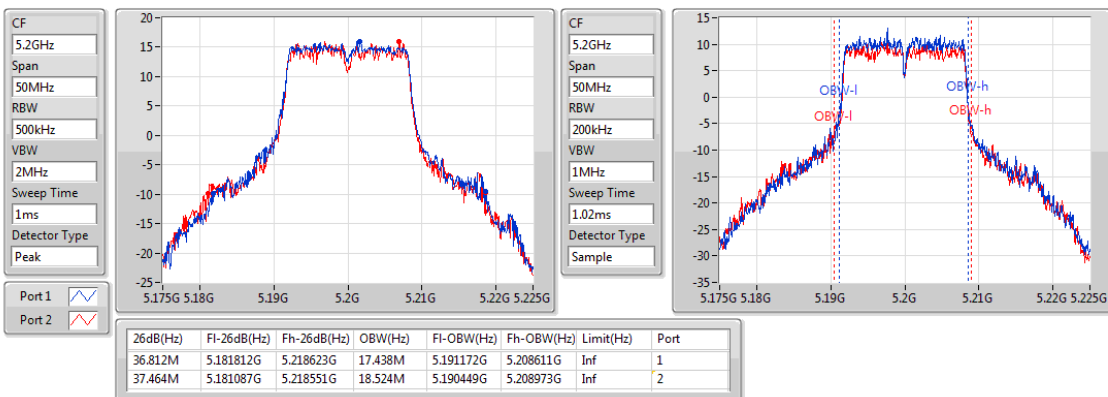
5180MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

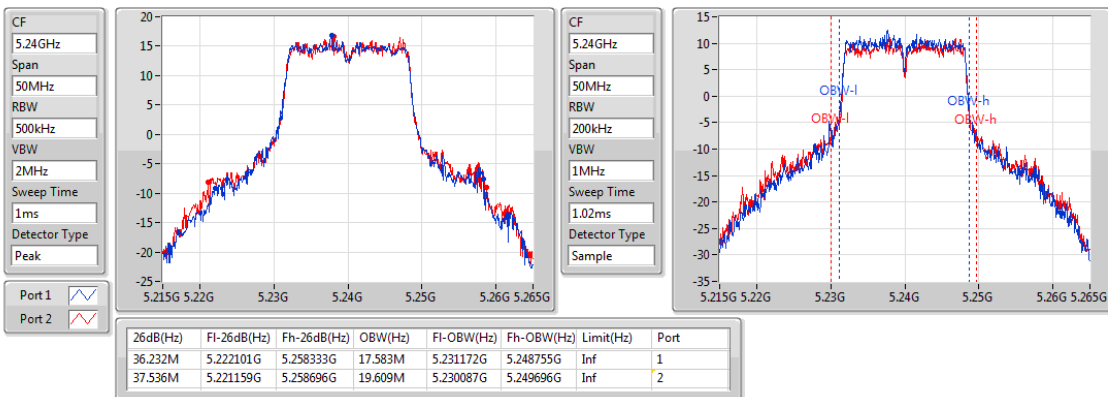
5200MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

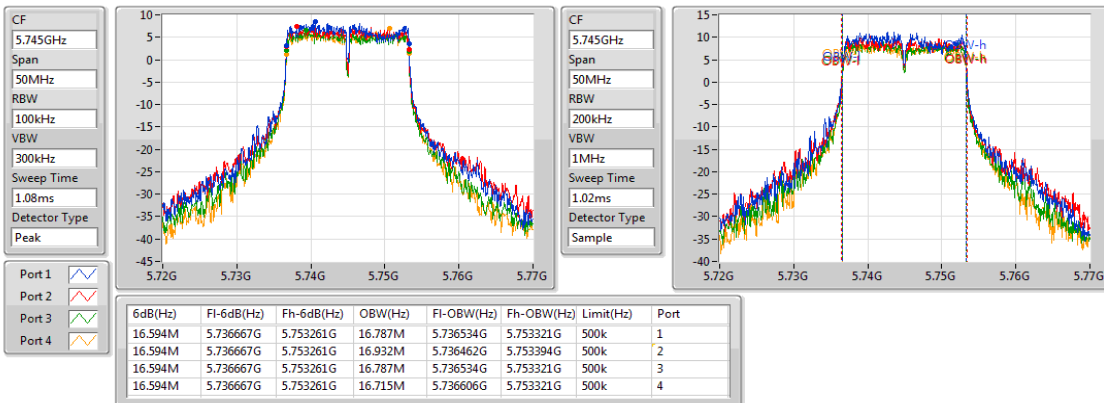
5240MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

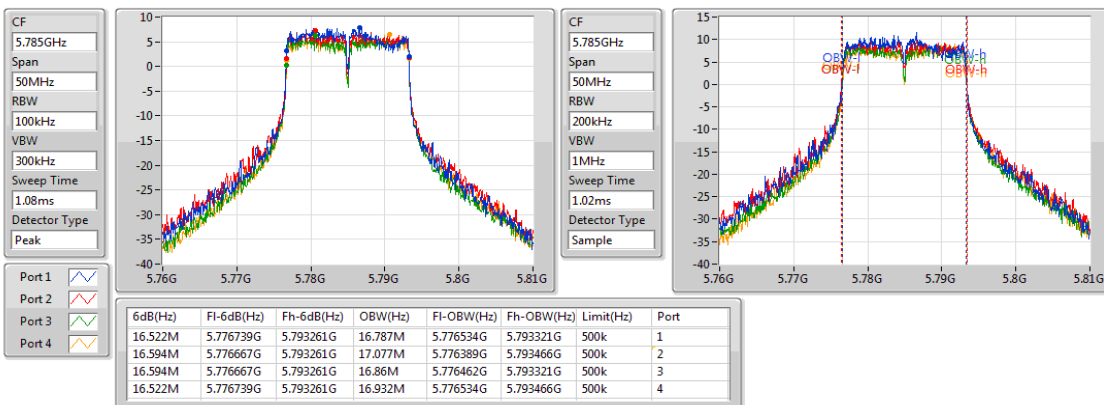
5745MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

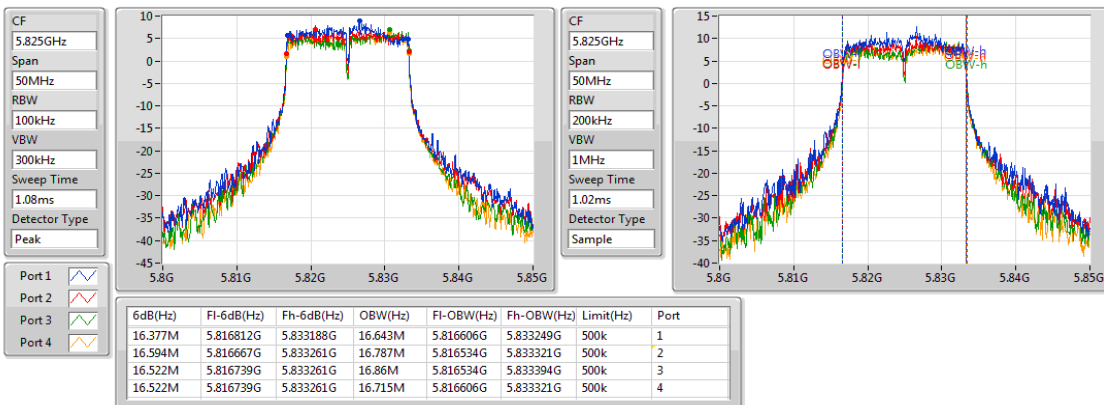
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802.11a_Nss1,(6Mbps)_4TX

EBW

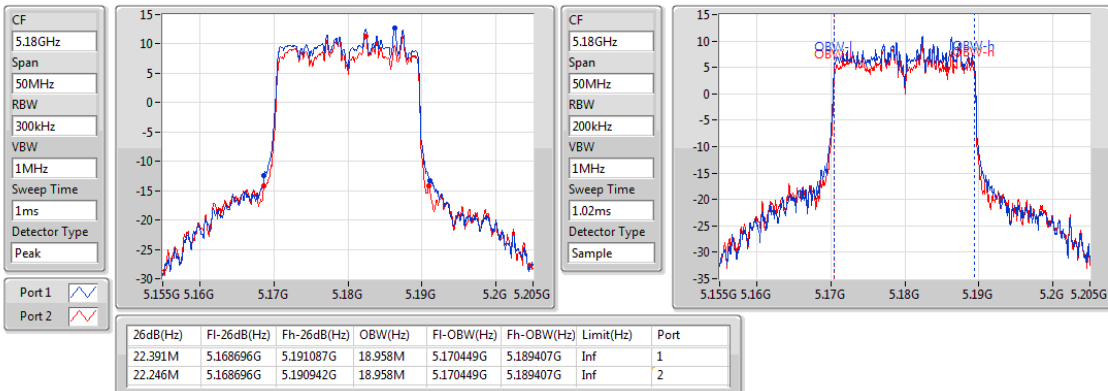
5825MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

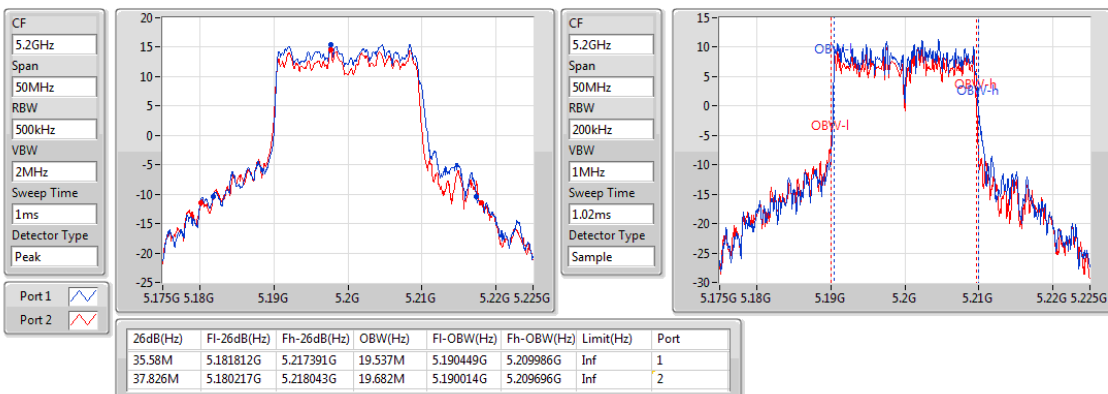
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802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

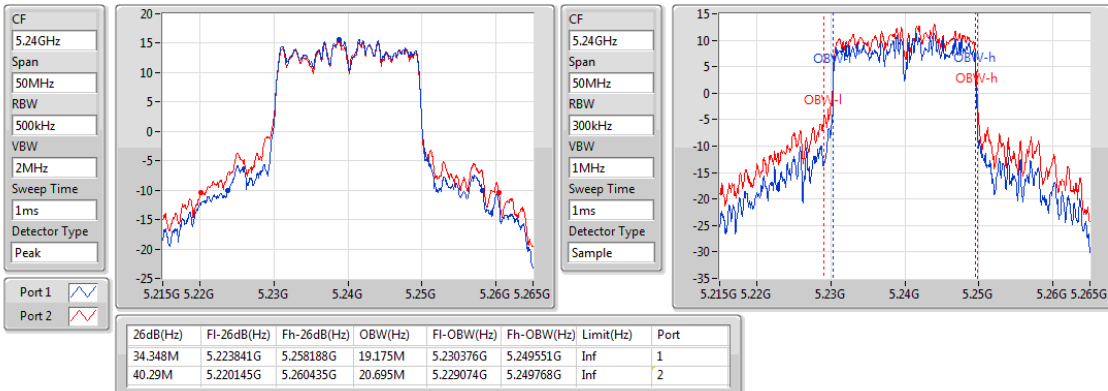
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802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

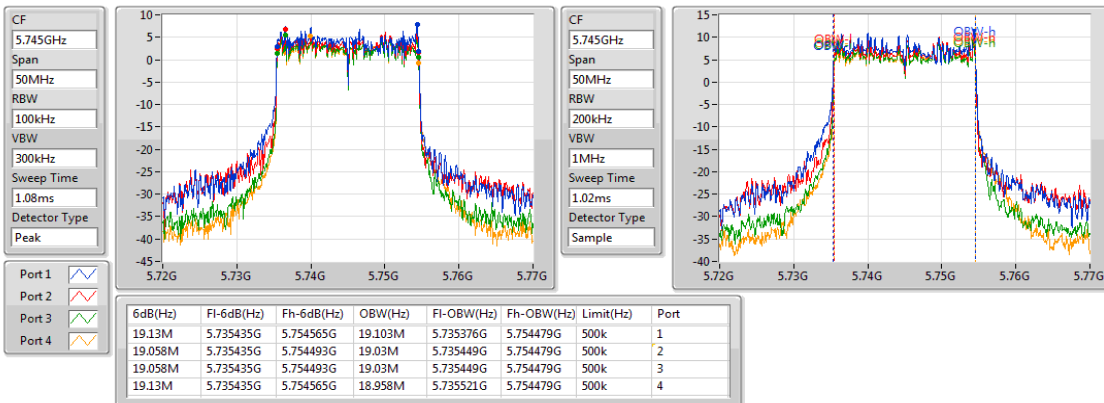
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802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

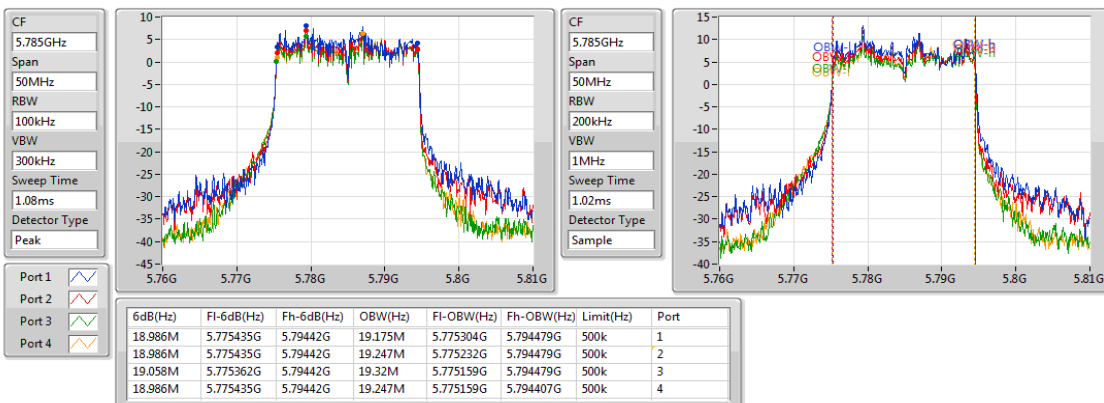
5745MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

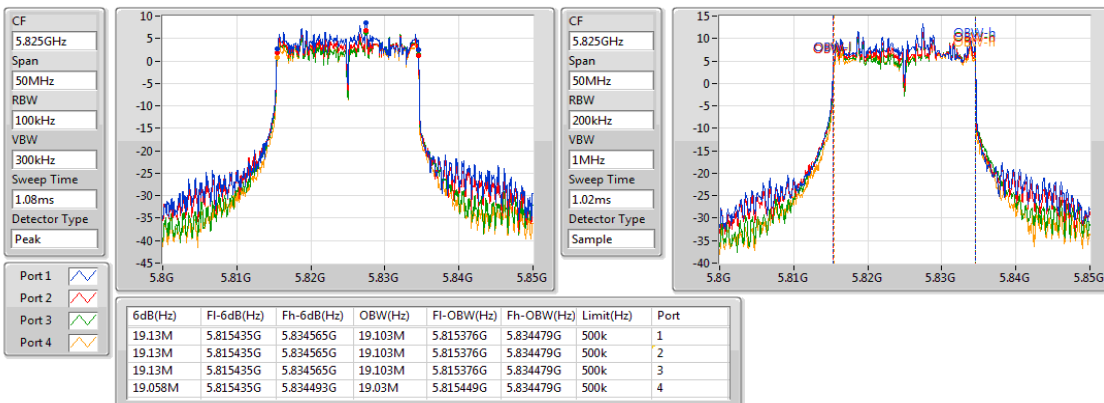
5785MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

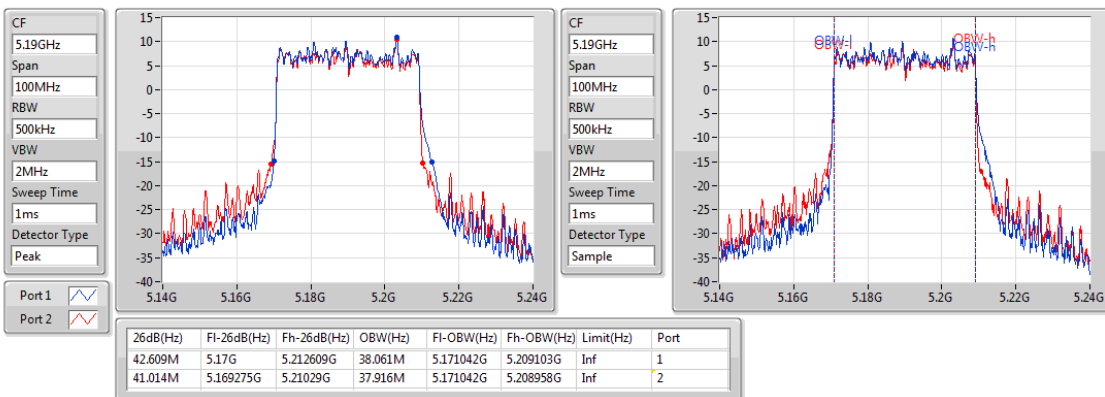




802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

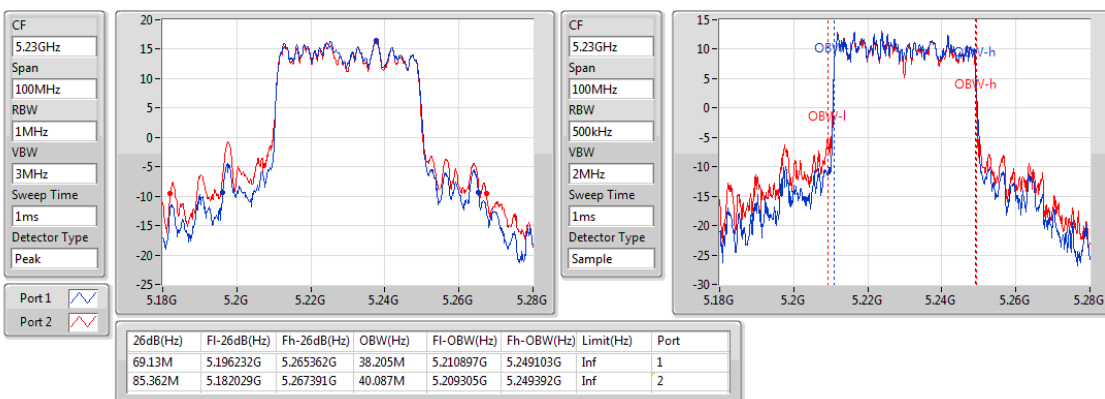
5190MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

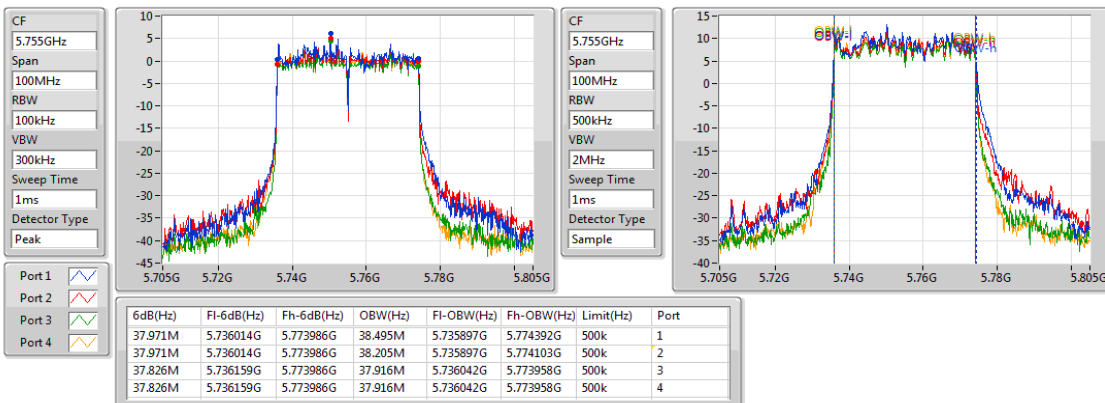
5230MHz

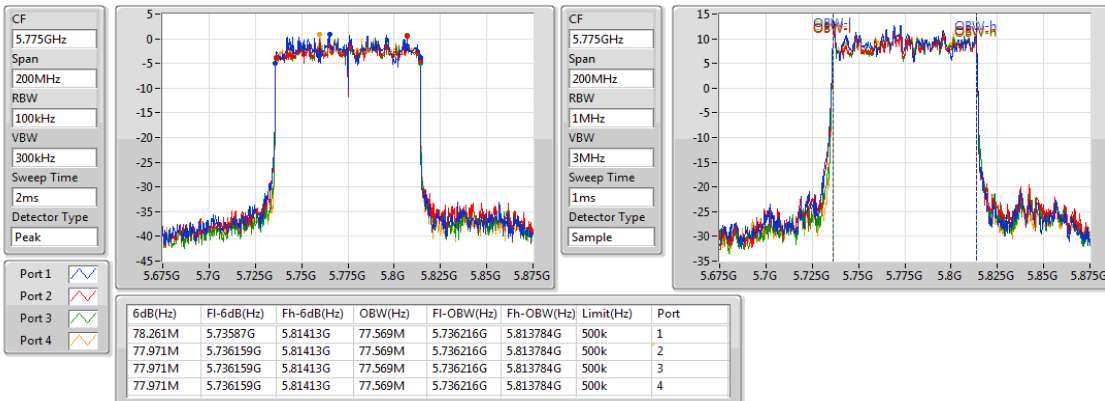
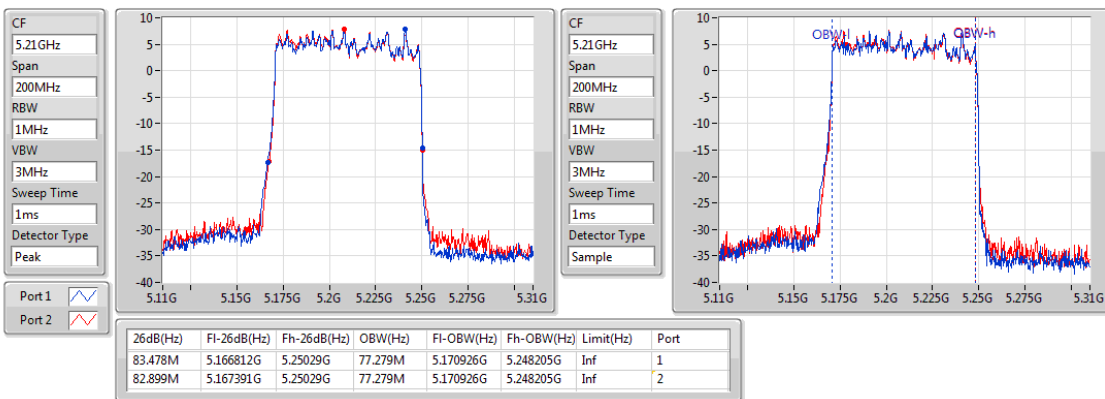
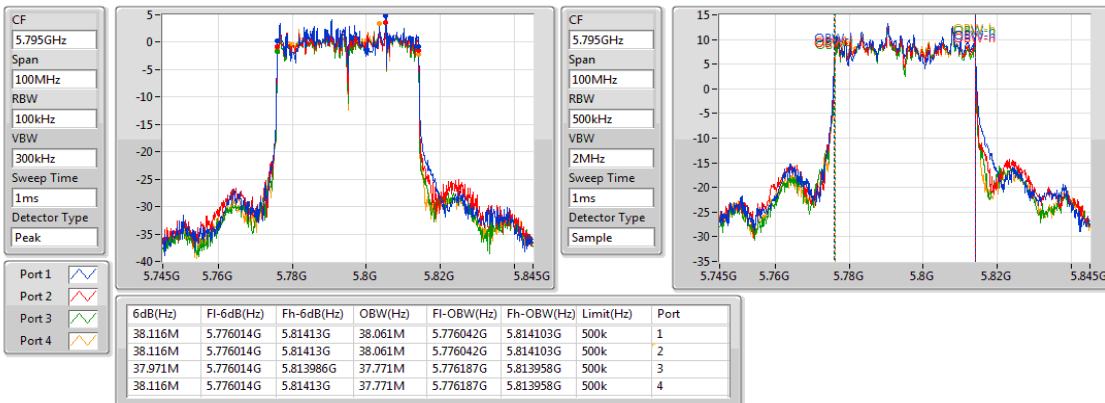


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.00	0.31623	27.42	0.55208
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	25.52	0.35645	27.94	0.62230
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	24.46	0.27925	26.88	0.48753
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	19.40	0.08710	21.82	0.15205
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	26.95	0.49545	30.17	1.03992
802.11ax HEW20_Nss1,(MCS0)_4TX-OFDMA	27.66	0.58345	30.88	1.22462
802.11ax HEW40_Nss1,(MCS0)_4TX-OFDMA	26.90	0.48978	30.12	1.02802
802.11ax HEW80_Nss1,(MCS0)_4TX-OFDMA	26.72	0.46989	29.94	0.98628

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	2.42	21.15	20.21			23.72	30.00	26.14	36.00
5200MHz	Pass	2.42	22.42	21.49			24.99	30.00	27.41	36.00
5240MHz	Pass	2.42	22.35	21.59			25.00	30.00	27.42	36.00
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	3.22	21.13	21.15	20.34	20.26	26.76	30.00	29.98	36.00
5785MHz	Pass	3.22	21.36	21.13	20.51	20.65	26.95	30.00	30.17	36.00
5825MHz	Pass	3.22	21.32	20.97	20.53	20.55	26.88	30.00	30.10	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	2.42	21.05	20.45			23.77	30.00	26.19	36.00
5200MHz	Pass	2.42	22.95	22.01			25.52	30.00	27.94	36.00
5240MHz	Pass	2.42	22.25	21.86			25.07	30.00	27.49	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	3.22	22.05	22.02	21.26	21.16	27.66	30.00	30.88	36.00
5785MHz	Pass	3.22	21.77	21.74	21.06	20.93	27.41	30.00	30.63	36.00
5825MHz	Pass	3.22	21.81	21.93	21.19	21.04	27.53	30.00	30.75	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	2.42	18.34	18.05			21.21	30.00	23.63	36.00
5230MHz	Pass	2.42	21.26	21.63			24.46	30.00	26.88	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	3.22	20.89	21.31	20.51	20.76	26.90	30.00	30.12	36.00
5795MHz	Pass	3.22	20.88	20.94	20.67	20.94	26.88	30.00	30.10	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	2.42	16.23	16.55			19.40	30.00	21.82	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	3.22	20.72	20.66	20.77	20.65	26.72	30.00	29.94	36.00

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



Conducted Output Power(Average)

Appendix B.2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX-OFDMA	25.45	0.35075	28.62	0.72778
802.11ax HEW40-BF_Nss1,(MCS0)_2TX-OFDMA	24.36	0.27290	27.53	0.56624
802.11ax HEW80-BF_Nss1,(MCS0)_2TX-OFDMA	19.35	0.08610	22.52	0.17865
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX-OFDMA	27.59	0.57412	32.10	1.62181
802.11ax HEW40-BF_Nss1,(MCS0)_4TX-OFDMA	26.83	0.48195	31.34	1.36144
802.11ax HEW80-BF_Nss1,(MCS0)_4TX-OFDMA	26.64	0.46132	31.15	1.30317



Conducted Output Power(Average)

Appendix B.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.17	21.01	20.38			23.72	30.00	26.89	36.00
5200MHz	Pass	3.17	22.89	21.94			25.45	30.00	28.62	36.00
5240MHz	Pass	3.17	22.18	21.79			25.00	30.00	28.17	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	4.51	22.01	21.95	21.13	21.08	27.59	30.00	32.10	36.00
5785MHz	Pass	4.51	21.65	21.69	21.02	20.87	27.34	30.00	31.85	36.00
5825MHz	Pass	4.51	21.75	21.86	21.08	20.97	27.45	30.00	31.96	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.17	18.29	18.02			21.17	30.00	24.34	36.00
5230MHz	Pass	3.17	21.13	21.55			24.36	30.00	27.53	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	4.51	20.78	21.26	20.42	20.61	26.80	30.00	31.31	36.00
5795MHz	Pass	4.51	20.8	20.89	20.62	20.91	26.83	30.00	31.34	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.17	16.18	16.49			19.35	30.00	22.52	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	4.51	20.65	20.6	20.65	20.57	26.64	30.00	31.15	36.00

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

Directional gain is measured. Please refer to antenna test report.

**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	11.99	15.16
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	12.68	15.85
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	9.17	12.34
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	1.06	4.23
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	13.36	17.87
802.11ax HEW20_Nss1,(MCS0)_4TX-OFDMA	13.89	18.40
802.11ax HEW40_Nss1,(MCS0)_4TX-OFDMA	9.87	14.38
802.11ax HEW80_Nss1,(MCS0)_4TX-OFDMA	6.62	11.13

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.17	8.56	7.61			10.95	17.00	14.12	23.00
5200MHz	Pass	3.17	9.49	8.48			11.99	17.00	15.16	23.00
5240MHz	Pass	3.17	9.46	8.30			11.82	17.00	14.99	23.00
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	4.51	8.14	7.64	6.65	6.45	13.05	30.00	17.56	36.00
5785MHz	Pass	4.51	8.32	7.37	6.66	6.75	13.02	30.00	17.53	36.00
5825MHz	Pass	4.51	8.99	7.13	7.22	6.88	13.36	30.00	17.87	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.17	8.01	7.71			10.77	17.00	13.94	23.00
5200MHz	Pass	3.17	10.31	9.06			12.68	17.00	15.85	23.00
5240MHz	Pass	3.17	10.61	8.37			12.37	17.00	15.54	23.00
802.11ax HEW20_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	4.51	8.58	8.07	7.36	6.98	13.53	30.00	18.04	36.00
5785MHz	Pass	4.51	8.98	7.61	7.69	7.58	13.89	30.00	18.40	36.00
5825MHz	Pass	4.51	8.72	7.37	6.94	7.21	13.46	30.00	17.97	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.17	3.12	3.20			5.90	17.00	9.07	23.00
5230MHz	Pass	3.17	5.93	6.55			9.17	17.00	12.34	23.00
802.11ax HEW40_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	4.51	4.72	3.87	3.79	3.84	9.87	30.00	14.38	36.00
5795MHz	Pass	4.51	4.25	3.54	3.41	3.78	9.46	30.00	13.97	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.17	-1.68	-1.89			1.06	17.00	4.23	23.00
802.11ax HEW80_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	4.51	1.41	0.58	0.77	1.06	6.62	30.00	11.13	36.00

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

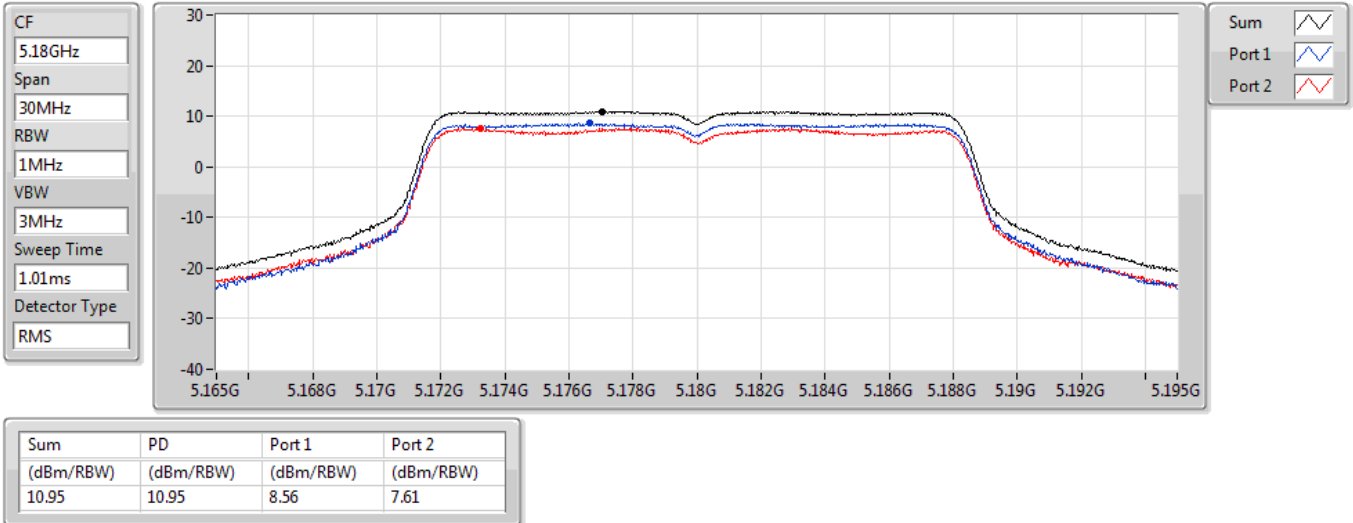
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

Directional gain is measured. Please refer to antenna test report.

802.11a_Nss1,(6Mbps)_2TX

PSD

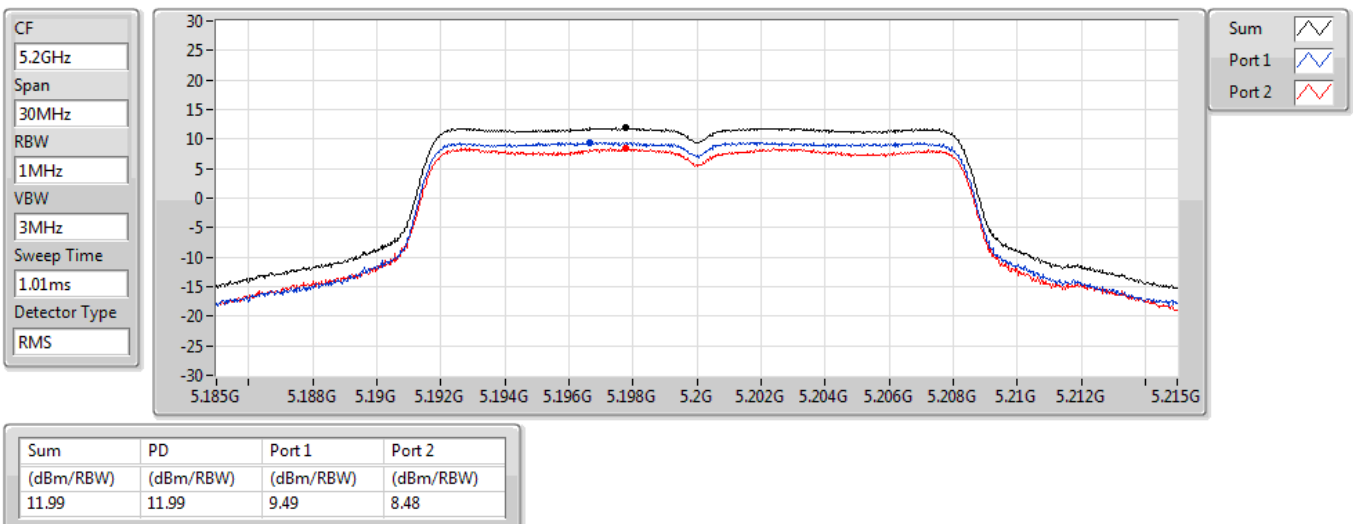
5180MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

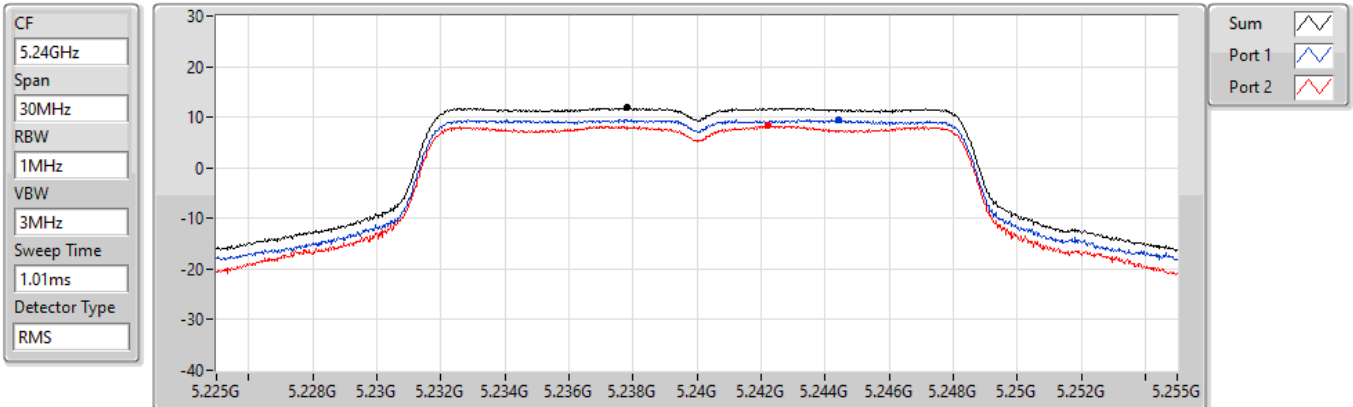
5200MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

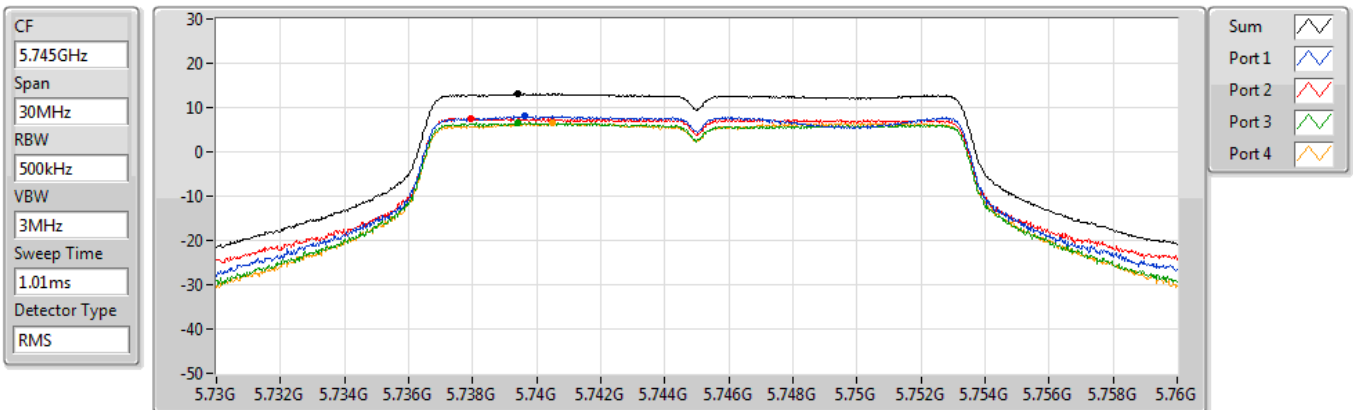
5240MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

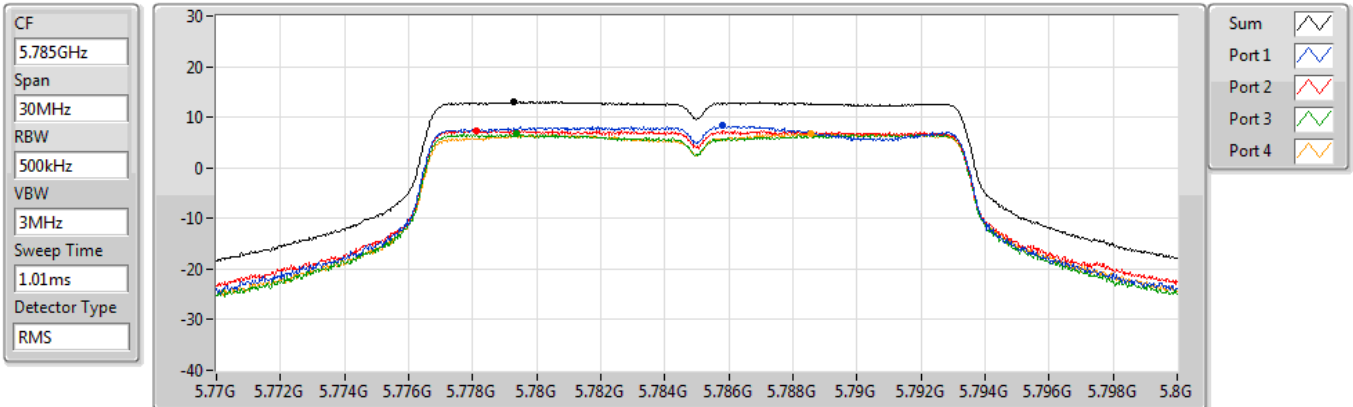
5745MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

5785MHz

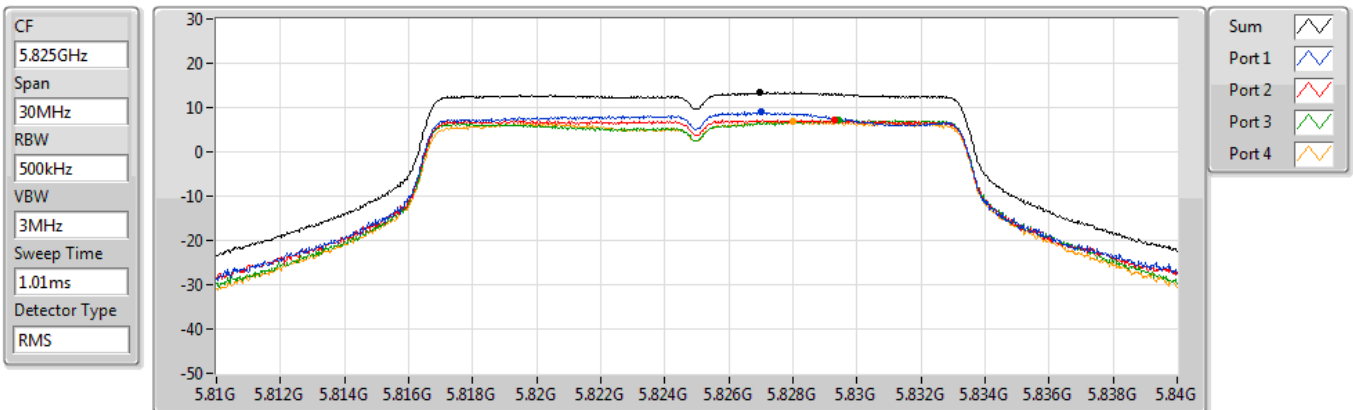


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.02	13.02	8.32	7.37	6.66	6.75

802.11a_Nss1,(6Mbps)_4TX

PSD

5825MHz

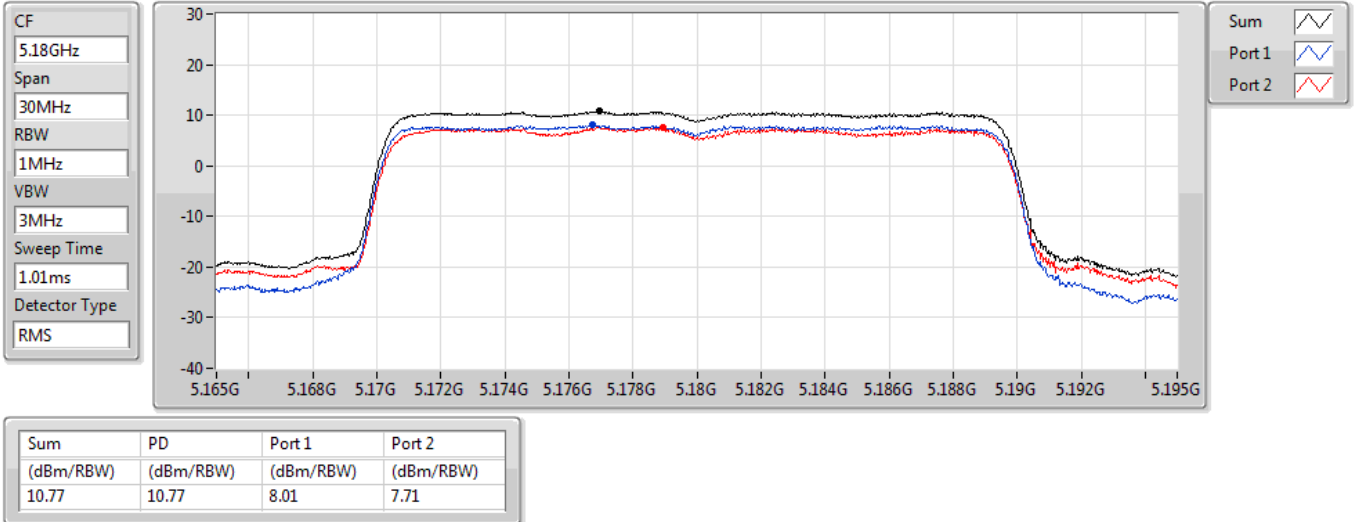


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.36	13.36	8.99	7.13	7.22	6.88

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

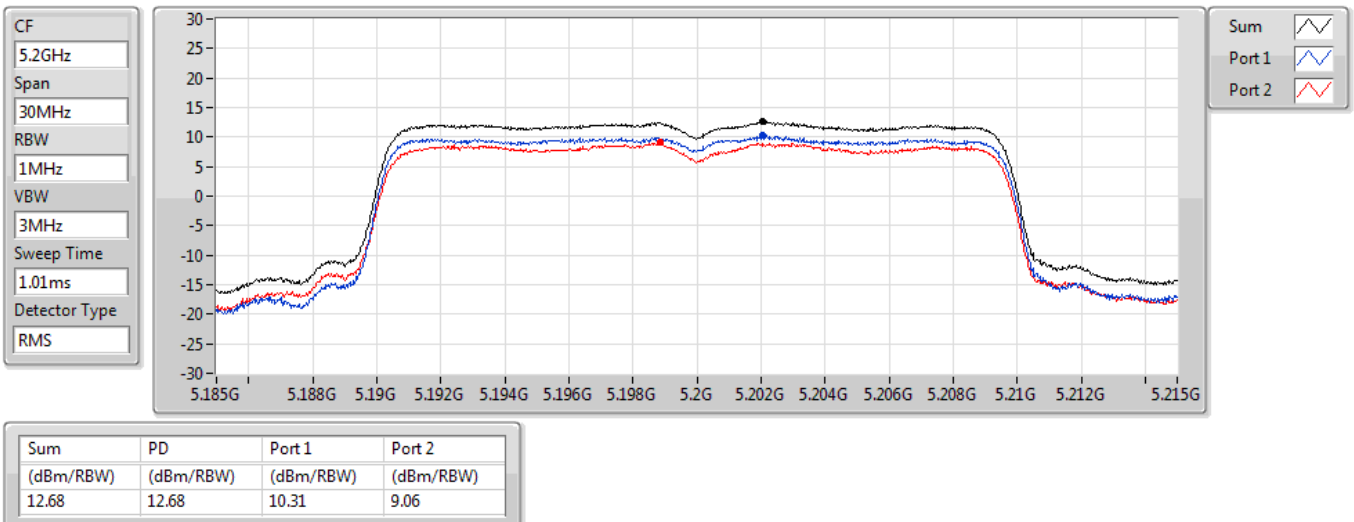
5180MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

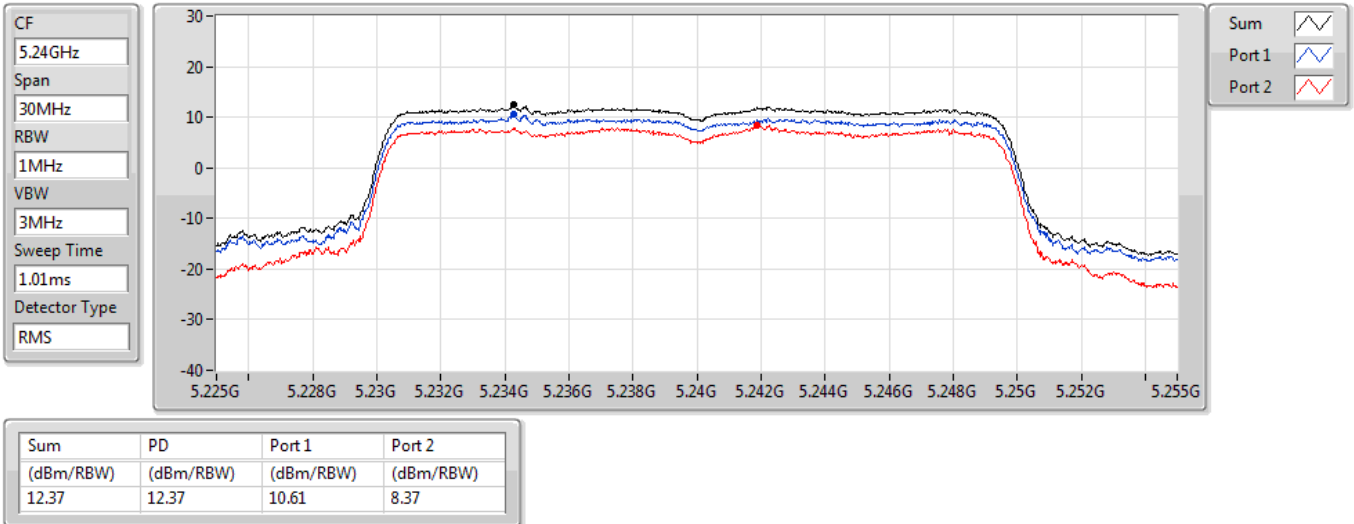
5200MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

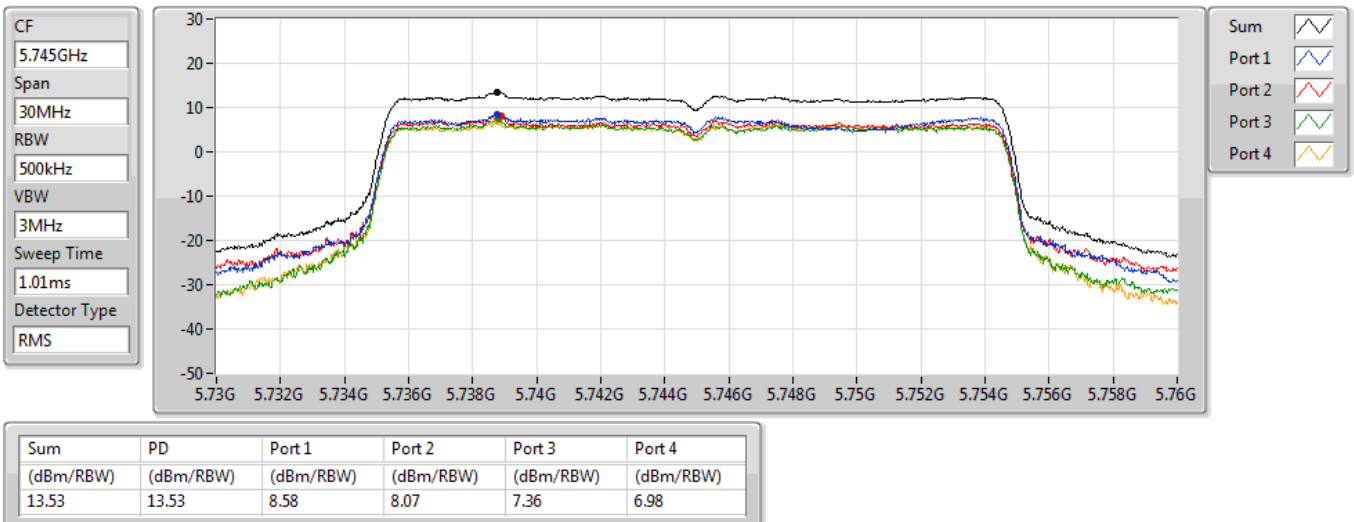
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802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

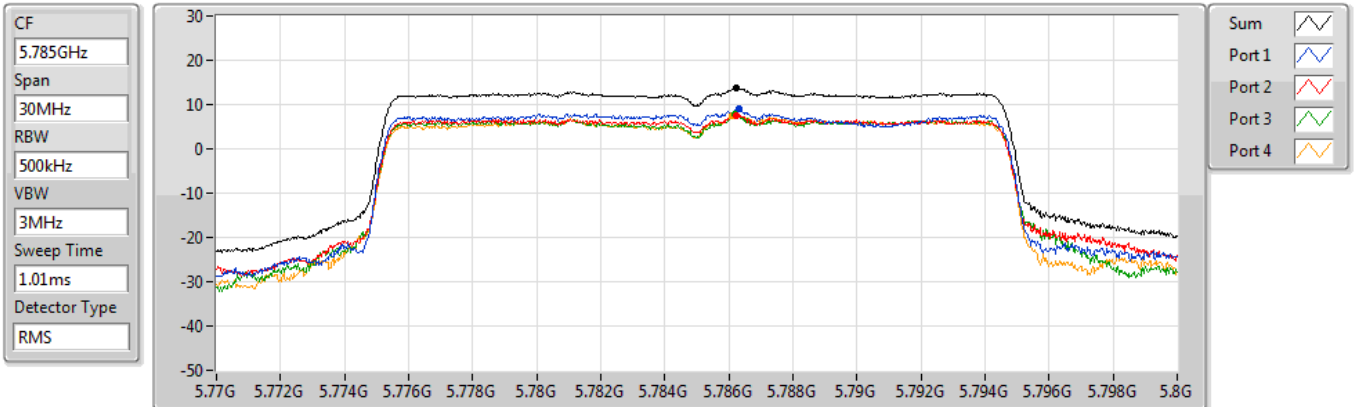
5745MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5785MHz

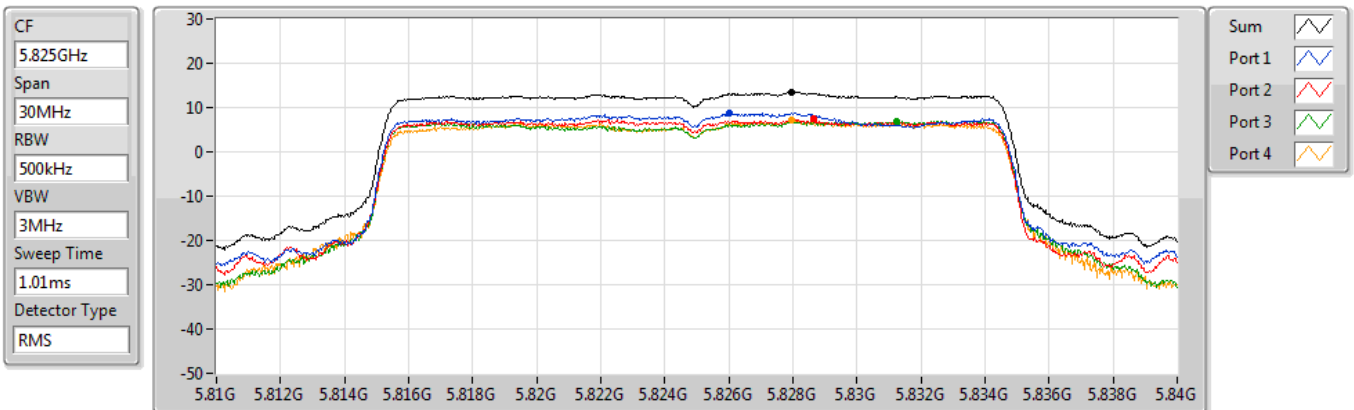


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.89	13.89	8.98	7.61	7.69	7.58

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5825MHz

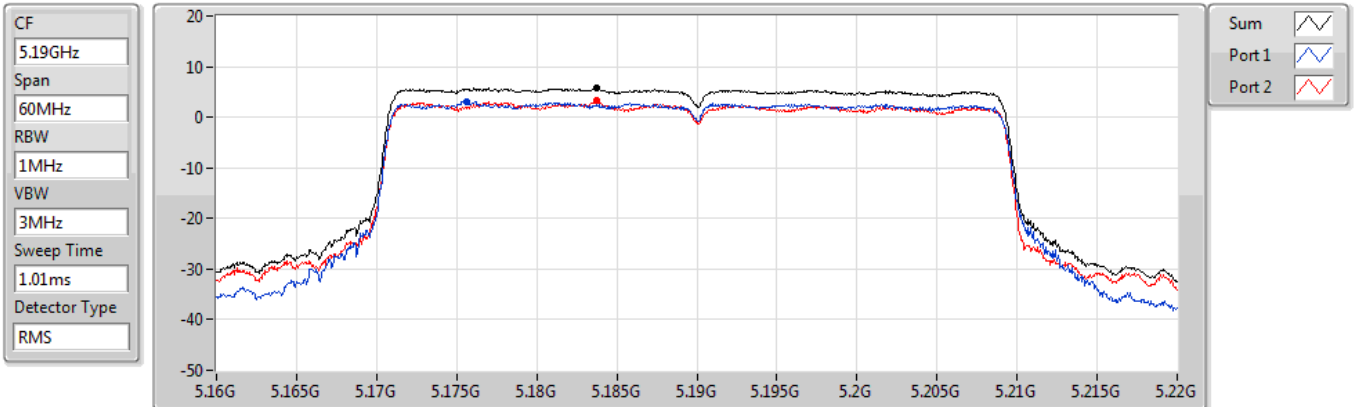


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.46	13.46	8.72	7.37	6.94	7.21

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

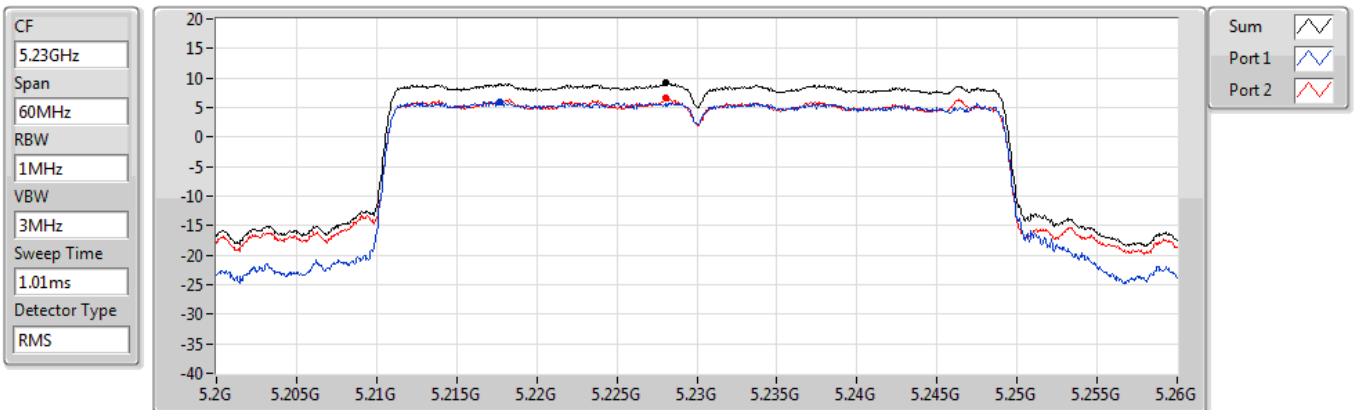
5190MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

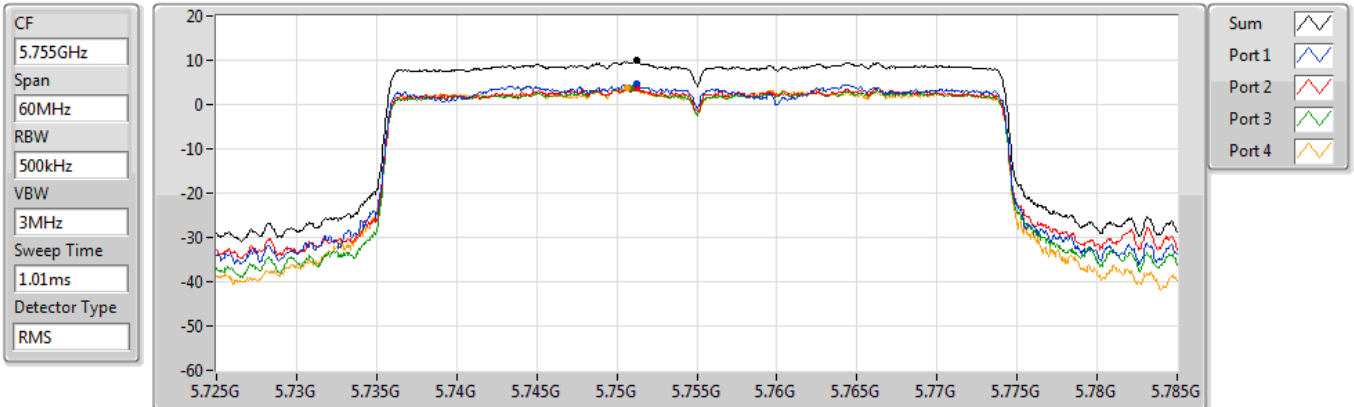
5230MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

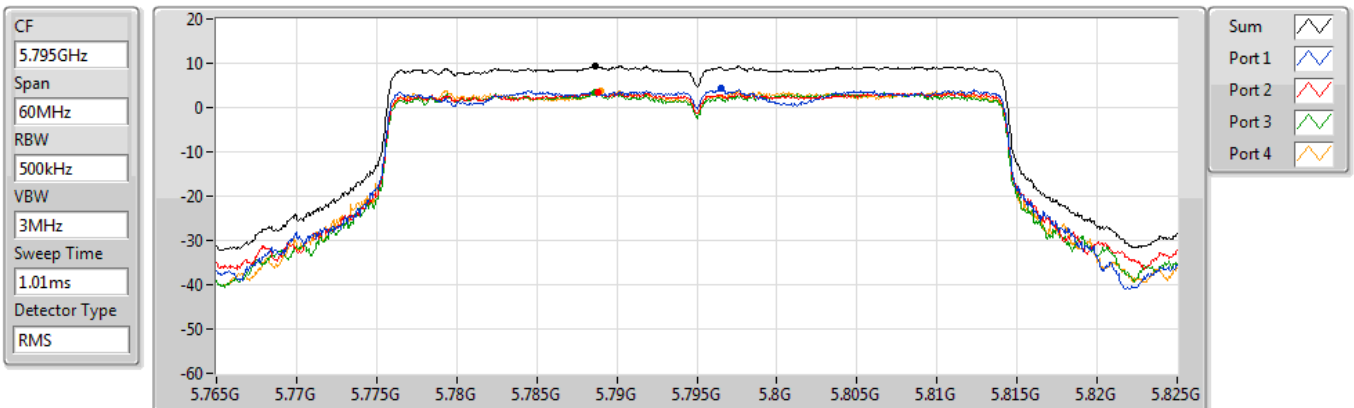
5755MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

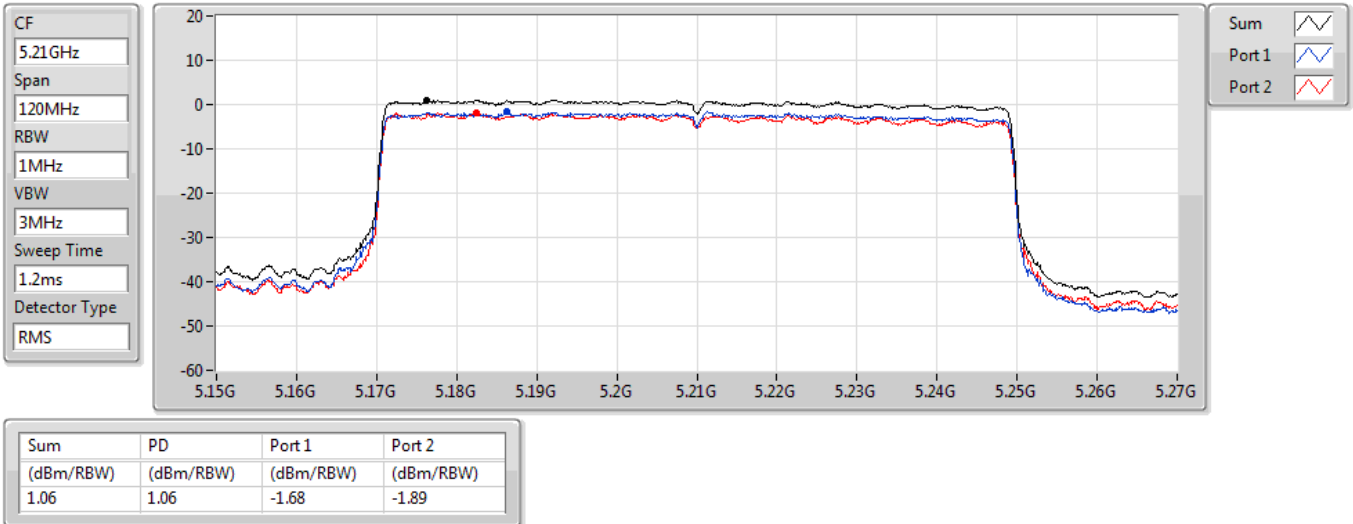
5795MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

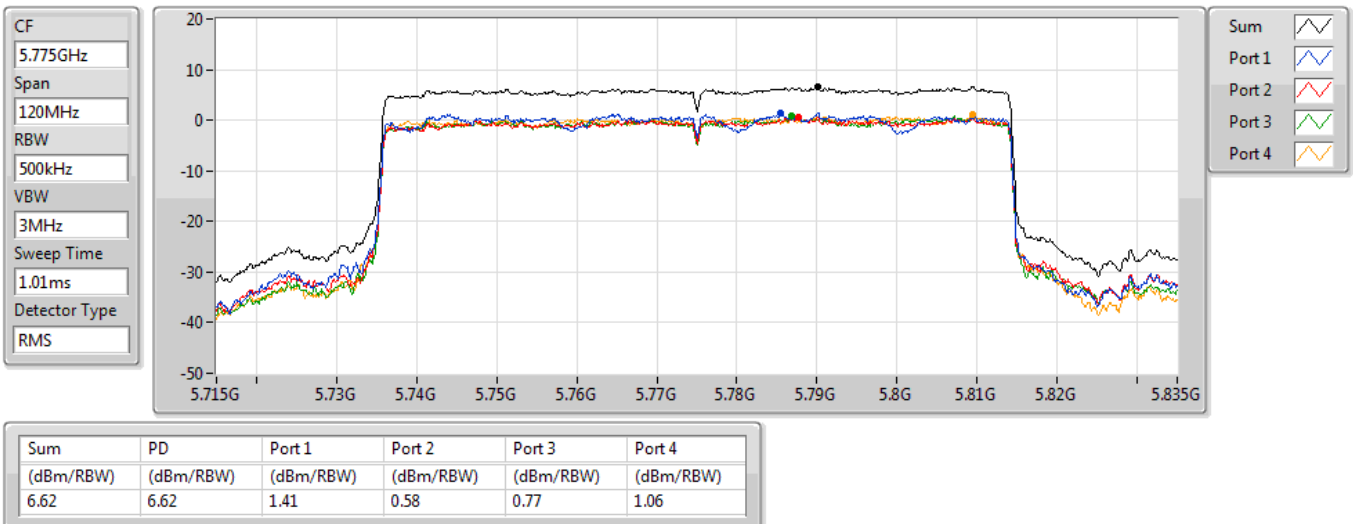
5210MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5775MHz





Unwanted Emissions (Below 1GHz)

Modulation	ax HE20-OFDMA		Test Freq. (MHz)		5200																																																																							
Polarization	Horizontal																																																																											
Test By :Akun Chung Temperature(°C):25 Humidity(%):62																																																																												
Level (dBUV/m) CLASS-B Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>66.24</td><td>27.33</td><td>40.00</td><td>-12.67</td><td>38.08</td><td>-10.75</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>93.55</td><td>26.25</td><td>43.50</td><td>-17.25</td><td>40.72</td><td>-14.47</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>145.28</td><td>32.56</td><td>43.50</td><td>-10.94</td><td>41.87</td><td>-9.31</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>162.45</td><td>26.33</td><td>43.50</td><td>-17.17</td><td>35.24</td><td>-8.91</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>405.87</td><td>32.25</td><td>46.00</td><td>-13.75</td><td>38.03</td><td>-5.78</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>812.70</td><td>40.02</td><td>46.00</td><td>-5.98</td><td>38.08</td><td>1.94</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table>								Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	66.24	27.33	40.00	-12.67	38.08	-10.75	Peak	---	---	2	93.55	26.25	43.50	-17.25	40.72	-14.47	Peak	---	---	3	145.28	32.56	43.50	-10.94	41.87	-9.31	Peak	---	---	4	162.45	26.33	43.50	-17.17	35.24	-8.91	Peak	---	---	5	405.87	32.25	46.00	-13.75	38.03	-5.78	Peak	---	---	6	812.70	40.02	46.00	-5.98	38.08	1.94	Peak	---	---
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																			
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Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5200																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung Temperature(°C):25 Humidity(%):62																																																																									
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Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):62			
Level (dBuV/m)			



Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):62			
Level (dBUV/m) </			

Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):26 Humidity(%):62			
Level (dBUV/m)			



Modulation	11a	Test Freq. (MHz)	5180																																																												
Polarization	Vertical																																																														
Test By :Akun Chung Temperature(°C):26 Humidity(%):62																																																															
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Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):26 Humidity(%):62			
Level (dBuV/m) </			



Modulation	11a	Test Freq. (MHz)	5200																																																												
Polarization	Vertical																																																														
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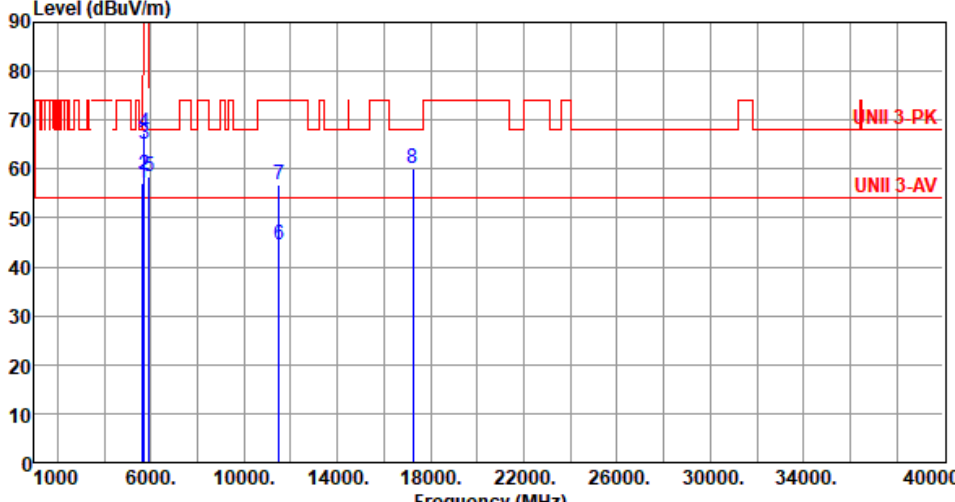


Modulation	11a	Test Freq. (MHz)	5240																																																																																
Polarization	Horizontal																																																																																		
Test By :Akun Chung Temperature(°C):26 Humidity(%):62																																																																																			
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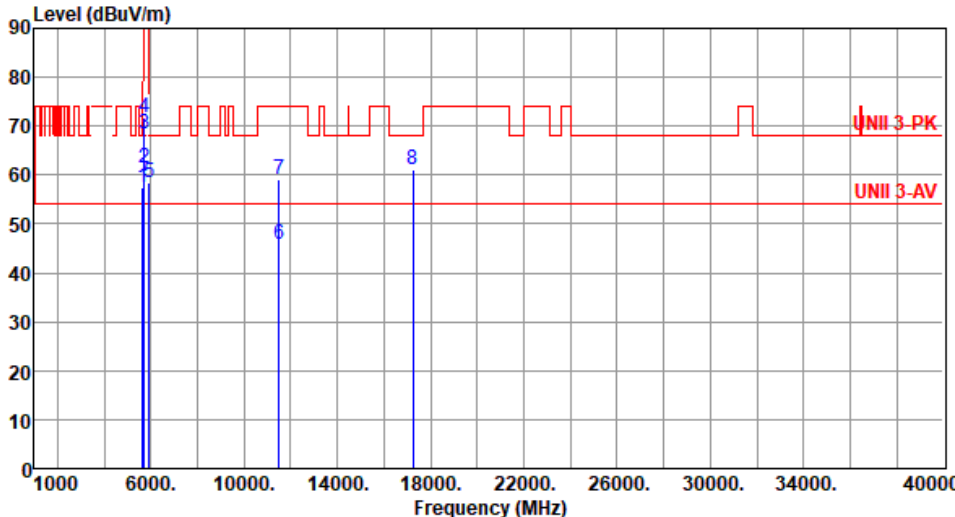


Modulation	11a	Test Freq. (MHz)	5240																																																																																
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																										
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Modulation	11a	Test Freq. (MHz)	5745																																																																																										
Polarization	Horizontal																																																																																												
Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																																																													
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	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	11a	Test Freq. (MHz)	5745																																																																																										
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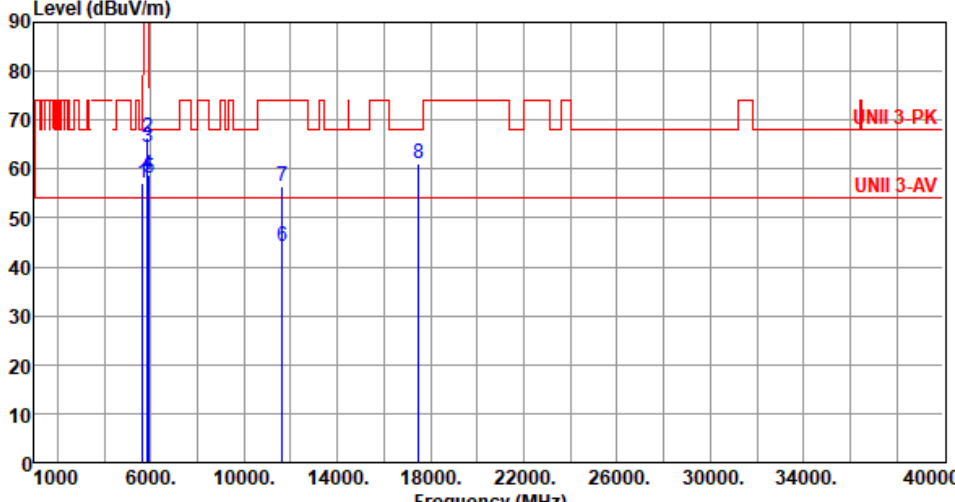


Modulation	11a	Test Freq. (MHz)	5785																																																												
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
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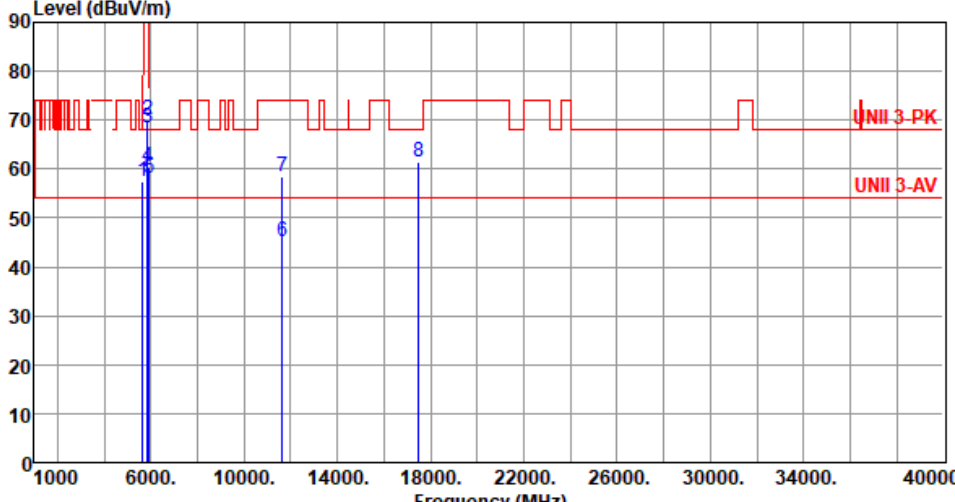


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Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																															
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>57.38</td><td>68.20</td><td>-10.82</td><td>52.57</td><td>4.81</td><td>Peak</td><td>212</td><td>207</td></tr><tr><td>2</td><td>5925.00</td><td>61.12</td><td>68.20</td><td>-7.08</td><td>55.51</td><td>5.61</td><td>Peak</td><td>212</td><td>207</td></tr><tr><td>3</td><td>11570.00</td><td>45.87</td><td>54.00</td><td>-8.13</td><td>31.62</td><td>14.25</td><td>Average</td><td>264</td><td>287</td></tr><tr><td>4</td><td>11570.00</td><td>58.30</td><td>74.00</td><td>-15.70</td><td>44.05</td><td>14.25</td><td>Peak</td><td>264</td><td>287</td></tr><tr><td>5</td><td>17355.00</td><td>61.80</td><td>68.20</td><td>-6.40</td><td>43.89</td><td>17.91</td><td>Peak</td><td>100</td><td>295</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	57.38	68.20	-10.82	52.57	4.81	Peak	212	207	2	5925.00	61.12	68.20	-7.08	55.51	5.61	Peak	212	207	3	11570.00	45.87	54.00	-8.13	31.62	14.25	Average	264	287	4	11570.00	58.30	74.00	-15.70	44.05	14.25	Peak	264	287	5	17355.00	61.80	68.20	-6.40	43.89	17.91	Peak	100	295
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
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Modulation	11a	Test Freq. (MHz)	5825																																																																																										
Polarization	Horizontal																																																																																												
Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																																																													
Level (dBUV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>57.21</td><td>68.20</td><td>-10.99</td><td>52.40</td><td>4.81</td><td>Peak</td><td>228</td><td>310</td></tr><tr><td>2</td><td>5850.00</td><td>66.58</td><td>122.20</td><td>-55.62</td><td>60.93</td><td>5.65</td><td>Peak</td><td>228</td><td>310</td></tr><tr><td>3</td><td>5855.00</td><td>64.58</td><td>110.80</td><td>-46.22</td><td>58.93</td><td>5.65</td><td>Peak</td><td>228</td><td>310</td></tr><tr><td>4</td><td>5875.00</td><td>58.91</td><td>105.20</td><td>-46.29</td><td>53.25</td><td>5.66</td><td>Peak</td><td>228</td><td>310</td></tr><tr><td>5</td><td>5925.00</td><td>58.05</td><td>68.20</td><td>-10.15</td><td>52.44</td><td>5.61</td><td>Peak</td><td>228</td><td>310</td></tr><tr><td>6</td><td>11650.00</td><td>44.05</td><td>54.00</td><td>-9.95</td><td>30.15</td><td>13.90</td><td>Average</td><td>100</td><td>313</td></tr><tr><td>7</td><td>11650.00</td><td>56.40</td><td>74.00</td><td>-17.60</td><td>42.50</td><td>13.90</td><td>Peak</td><td>100</td><td>313</td></tr><tr><td>8</td><td>17475.00</td><td>61.17</td><td>68.20</td><td>-7.03</td><td>42.62</td><td>18.55</td><td>Peak</td><td>100</td><td>305</td></tr></tbody></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	57.21	68.20	-10.99	52.40	4.81	Peak	228	310	2	5850.00	66.58	122.20	-55.62	60.93	5.65	Peak	228	310	3	5855.00	64.58	110.80	-46.22	58.93	5.65	Peak	228	310	4	5875.00	58.91	105.20	-46.29	53.25	5.66	Peak	228	310	5	5925.00	58.05	68.20	-10.15	52.44	5.61	Peak	228	310	6	11650.00	44.05	54.00	-9.95	30.15	13.90	Average	100	313	7	11650.00	56.40	74.00	-17.60	42.50	13.90	Peak	100	313	8	17475.00	61.17	68.20	-7.03	42.62	18.55	Peak	100	305
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	11a	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																																																													
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Unwanted Emissions (Above 1GHz) for ax HE20

Modulation	ax HE20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):26 Humidity(%):62			
Level (dBuV/m)			



Modulation	ax HE20	Test Freq. (MHz)	5180																																																												
Polarization	Vertical																																																														
Test By :Akun Chung Temperature(°C):26 Humidity(%):62																																																															
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Modulation	ax HE20	Test Freq. (MHz)	5200																																																												
Polarization	Horizontal																																																														
Test By :Akun Chung Temperature(°C):26 Humidity(%):62																																																															
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Modulation	ax HE20	Test Freq. (MHz)	5200																																																												
Polarization	Vertical																																																														
Test By :Akun Chung Temperature(°C):26 Humidity(%):62																																																															
Level (dBuV/m) UN 1~2 PK CLASS-B (AVG) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5150.00</td><td>53.72</td><td>54.00</td><td>-0.28</td><td>48.71</td><td>5.01</td><td>Average</td><td>290</td><td>205</td></tr><tr><td>2</td><td>5150.00</td><td>66.66</td><td>74.00</td><td>-7.34</td><td>61.65</td><td>5.01</td><td>Peak</td><td>290</td><td>205</td></tr><tr><td>3</td><td>10400.00</td><td>67.53</td><td>68.20</td><td>-0.67</td><td>53.20</td><td>14.33</td><td>Peak</td><td>315</td><td>139</td></tr><tr><td>4</td><td>15600.00</td><td>46.58</td><td>54.00</td><td>-7.42</td><td>33.25</td><td>13.33</td><td>Average</td><td>290</td><td>205</td></tr><tr><td>5</td><td>15600.00</td><td>57.26</td><td>74.00</td><td>-16.74</td><td>43.93</td><td>13.33</td><td>Peak</td><td>290</td><td>205</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	53.72	54.00	-0.28	48.71	5.01	Average	290	205	2	5150.00	66.66	74.00	-7.34	61.65	5.01	Peak	290	205	3	10400.00	67.53	68.20	-0.67	53.20	14.33	Peak	315	139	4	15600.00	46.58	54.00	-7.42	33.25	13.33	Average	290	205	5	15600.00	57.26	74.00	-16.74	43.93	13.33	Peak	290	205
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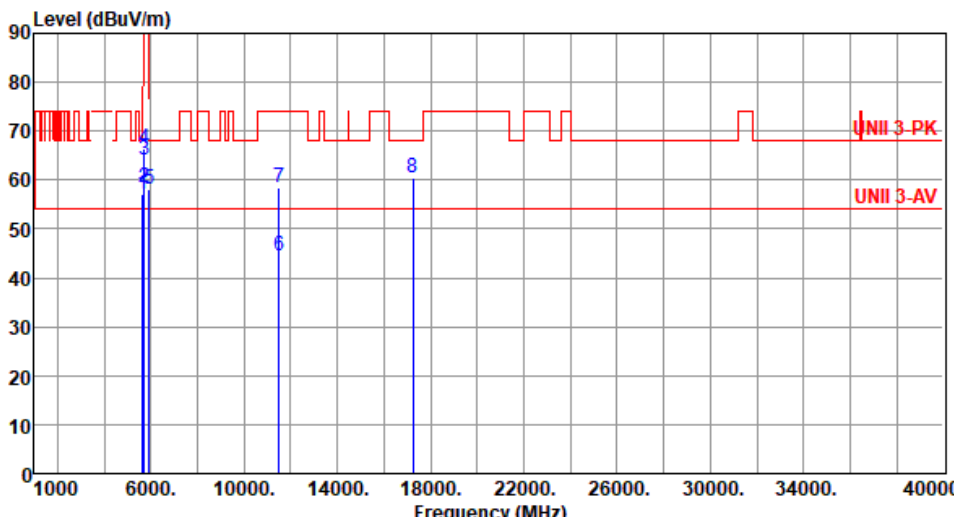


Modulation	ax HE20	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):26 Humidity(%):62			
Level (dBuV/m) </			



Modulation	ax HE20	Test Freq. (MHz)	5240																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):26 Humidity(%):62																																																																																			
Level (dBuV/m) UN 1~2 PK CLASS-B (AVG) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5150.00</td><td>48.87</td><td>54.00</td><td>-5.13</td><td>43.86</td><td>5.01</td><td>Average</td><td>296</td><td>199</td></tr><tr><td>2</td><td>5150.00</td><td>61.87</td><td>74.00</td><td>-12.13</td><td>56.86</td><td>5.01</td><td>Peak</td><td>296</td><td>199</td></tr><tr><td>3</td><td>5350.00</td><td>44.12</td><td>54.00</td><td>-9.88</td><td>39.70</td><td>4.42</td><td>Average</td><td>296</td><td>199</td></tr><tr><td>4</td><td>5350.00</td><td>57.11</td><td>74.00</td><td>-16.89</td><td>52.69</td><td>4.42</td><td>Peak</td><td>296</td><td>199</td></tr><tr><td>5</td><td>10480.00</td><td>67.57</td><td>68.20</td><td>-0.63</td><td>53.11</td><td>14.46</td><td>Peak</td><td>323</td><td>122</td></tr><tr><td>6</td><td>15720.00</td><td>46.54</td><td>54.00</td><td>-7.46</td><td>33.12</td><td>13.42</td><td>Average</td><td>291</td><td>201</td></tr><tr><td>7</td><td>15720.00</td><td>57.31</td><td>74.00</td><td>-16.69</td><td>43.89</td><td>13.42</td><td>Peak</td><td>291</td><td>201</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	48.87	54.00	-5.13	43.86	5.01	Average	296	199	2	5150.00	61.87	74.00	-12.13	56.86	5.01	Peak	296	199	3	5350.00	44.12	54.00	-9.88	39.70	4.42	Average	296	199	4	5350.00	57.11	74.00	-16.89	52.69	4.42	Peak	296	199	5	10480.00	67.57	68.20	-0.63	53.11	14.46	Peak	323	122	6	15720.00	46.54	54.00	-7.46	33.12	13.42	Average	291	201	7	15720.00	57.31	74.00	-16.69	43.89	13.42	Peak	291	201
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Modulation	ax HE20		Test Freq. (MHz)		5745																																																																																																																		
Polarization	Horizontal																																																																																																																						
Test By :Roger Lu			Temperature(°C):26			Humidity(%):62																																																																																																																	
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></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></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>5650.00</td><td>57.24</td><td>68.20</td><td>-10.96</td><td>52.43</td><td>4.81</td><td>Peak</td><td>200</td><td>295</td></tr><tr><td>2</td><td>5700.00</td><td>58.56</td><td>105.20</td><td>-46.64</td><td>53.54</td><td>5.02</td><td>Peak</td><td>200</td><td>295</td></tr><tr><td>3</td><td>5720.00</td><td>64.09</td><td>110.80</td><td>-46.71</td><td>58.95</td><td>5.14</td><td>Peak</td><td>200</td><td>295</td></tr><tr><td>4</td><td>5725.00</td><td>66.39</td><td>122.20</td><td>-55.81</td><td>61.22</td><td>5.17</td><td>Peak</td><td>200</td><td>295</td></tr><tr><td>5</td><td>5925.00</td><td>58.08</td><td>68.20</td><td>-10.12</td><td>52.47</td><td>5.61</td><td>Peak</td><td>200</td><td>295</td></tr><tr><td>6</td><td>11490.00</td><td>44.60</td><td>54.00</td><td>-9.40</td><td>30.21</td><td>14.39</td><td>Average</td><td>100</td><td>306</td></tr><tr><td>7</td><td>11490.00</td><td>58.38</td><td>74.00</td><td>-15.62</td><td>43.99</td><td>14.39</td><td>Peak</td><td>100</td><td>306</td></tr><tr><td>8</td><td>17235.00</td><td>60.31</td><td>68.20</td><td>-7.89</td><td>42.85</td><td>17.46</td><td>Peak</td><td>100</td><td>302</td></tr></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	5650.00	57.24	68.20	-10.96	52.43	4.81	Peak	200	295	2	5700.00	58.56	105.20	-46.64	53.54	5.02	Peak	200	295	3	5720.00	64.09	110.80	-46.71	58.95	5.14	Peak	200	295	4	5725.00	66.39	122.20	-55.81	61.22	5.17	Peak	200	295	5	5925.00	58.08	68.20	-10.12	52.47	5.61	Peak	200	295	6	11490.00	44.60	54.00	-9.40	30.21	14.39	Average	100	306	7	11490.00	58.38	74.00	-15.62	43.99	14.39	Peak	100	306	8	17235.00	60.31	68.20	-7.89	42.85	17.46	Peak	100	302
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																														
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Modulation	ax HE20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):26 Humidity(%):62			
Level (dBUV/m)			



Modulation	ax HE20		Test Freq. (MHz)		5785																																																														
Polarization	Horizontal																																																																		
Test By		:Roger Lu		Temperature(°C):26		Humidity(%):62																																																													
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>57.24</td><td>68.20</td><td>-10.96</td><td>52.43</td><td>4.81</td><td>Peak</td><td>205</td><td>303</td></tr><tr><td>2</td><td>5925.00</td><td>58.09</td><td>68.20</td><td>-10.11</td><td>52.48</td><td>5.61</td><td>Peak</td><td>205</td><td>303</td></tr><tr><td>3</td><td>11570.00</td><td>44.46</td><td>54.00</td><td>-9.54</td><td>30.21</td><td>14.25</td><td>Average</td><td>100</td><td>302</td></tr><tr><td>4</td><td>11570.00</td><td>58.21</td><td>74.00</td><td>-15.79</td><td>43.96</td><td>14.25</td><td>Peak</td><td>100</td><td>302</td></tr><tr><td>5</td><td>17355.00</td><td>60.07</td><td>68.20</td><td>-8.13</td><td>42.16</td><td>17.91</td><td>Peak</td><td>100</td><td>280</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).									Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	57.24	68.20	-10.96	52.43	4.81	Peak	205	303	2	5925.00	58.09	68.20	-10.11	52.48	5.61	Peak	205	303	3	11570.00	44.46	54.00	-9.54	30.21	14.25	Average	100	302	4	11570.00	58.21	74.00	-15.79	43.96	14.25	Peak	100	302	5	17355.00	60.07	68.20	-8.13	42.16	17.91	Peak	100	280
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																										
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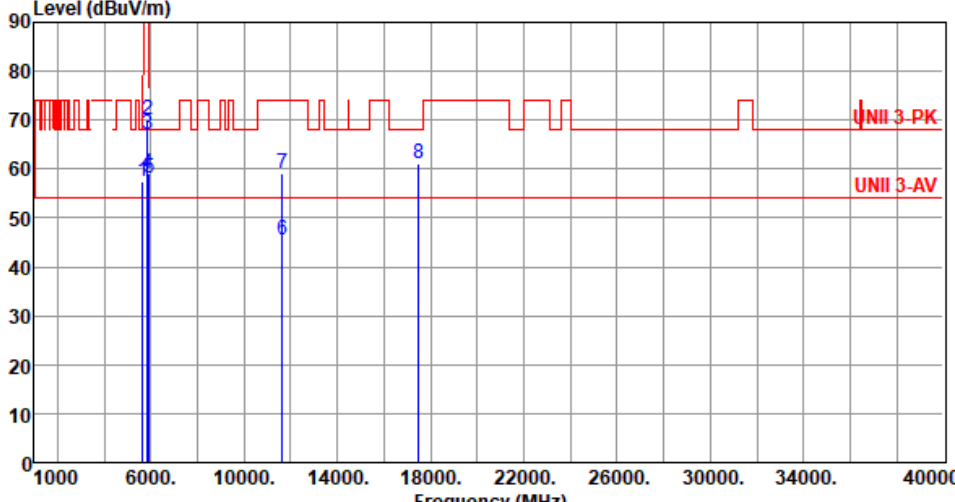


Modulation	ax HE20	Test Freq. (MHz)	5785																																																												
Polarization	Vertical																																																														
Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																															
Level (dBUV/m) UNII 3-PK UNII 3-AV Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>57.46</td><td>68.20</td><td>-10.74</td><td>52.65</td><td>4.81</td><td>Peak</td><td>352</td><td>26</td></tr><tr><td>2</td><td>5925.00</td><td>58.30</td><td>68.20</td><td>-9.90</td><td>52.69</td><td>5.61</td><td>Peak</td><td>352</td><td>26</td></tr><tr><td>3</td><td>11570.00</td><td>45.74</td><td>54.00</td><td>-8.26</td><td>31.49</td><td>14.25</td><td>Average</td><td>266</td><td>280</td></tr><tr><td>4</td><td>11570.00</td><td>59.91</td><td>74.00</td><td>-14.09</td><td>45.66</td><td>14.25</td><td>Peak</td><td>266</td><td>280</td></tr><tr><td>5</td><td>17355.00</td><td>61.67</td><td>68.20</td><td>-6.53</td><td>43.76</td><td>17.91</td><td>Peak</td><td>100</td><td>294</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	57.46	68.20	-10.74	52.65	4.81	Peak	352	26	2	5925.00	58.30	68.20	-9.90	52.69	5.61	Peak	352	26	3	11570.00	45.74	54.00	-8.26	31.49	14.25	Average	266	280	4	11570.00	59.91	74.00	-14.09	45.66	14.25	Peak	266	280	5	17355.00	61.67	68.20	-6.53	43.76	17.91	Peak	100	294
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
1	5650.00	57.46	68.20	-10.74	52.65	4.81	Peak	352	26																																																						
2	5925.00	58.30	68.20	-9.90	52.69	5.61	Peak	352	26																																																						
3	11570.00	45.74	54.00	-8.26	31.49	14.25	Average	266	280																																																						
4	11570.00	59.91	74.00	-14.09	45.66	14.25	Peak	266	280																																																						
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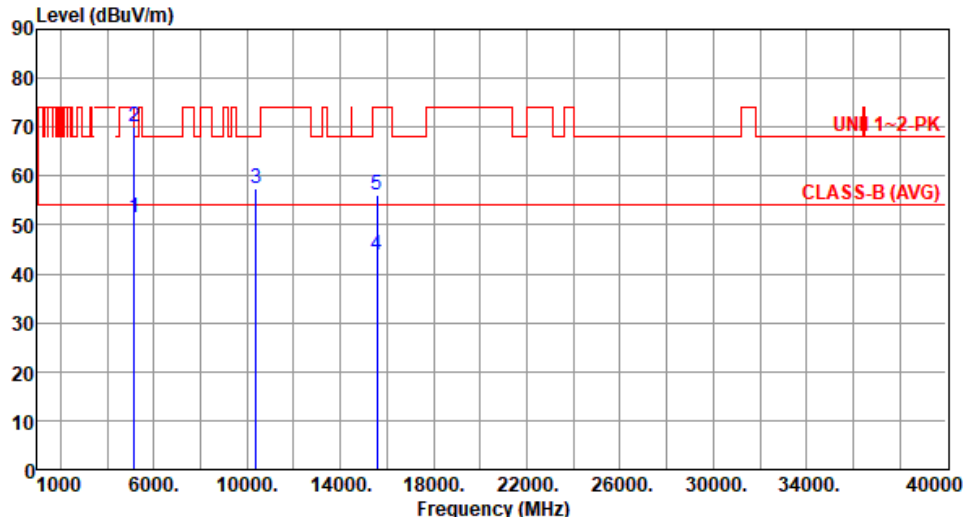


Modulation	ax HE20		Test Freq. (MHz)		5825																																																																																											
Polarization	Horizontal																																																																																															
Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																																																																
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>57.24</td><td>68.20</td><td>-10.96</td><td>52.43</td><td>4.81</td><td>Peak</td><td>225</td><td>297</td></tr><tr><td>2</td><td>5850.00</td><td>66.53</td><td>122.20</td><td>-55.67</td><td>60.88</td><td>5.65</td><td>Peak</td><td>225</td><td>297</td></tr><tr><td>3</td><td>5855.00</td><td>64.42</td><td>110.80</td><td>-46.38</td><td>58.77</td><td>5.65</td><td>Peak</td><td>225</td><td>297</td></tr><tr><td>4</td><td>5875.00</td><td>58.53</td><td>105.20</td><td>-46.67</td><td>52.87</td><td>5.66</td><td>Peak</td><td>225</td><td>297</td></tr><tr><td>5</td><td>5925.00</td><td>58.08</td><td>68.20</td><td>-10.12</td><td>52.47</td><td>5.61</td><td>Peak</td><td>225</td><td>297</td></tr><tr><td>6</td><td>11650.00</td><td>44.19</td><td>54.00</td><td>-9.81</td><td>30.29</td><td>13.90</td><td>Average</td><td>100</td><td>306</td></tr><tr><td>7</td><td>11650.00</td><td>56.75</td><td>74.00</td><td>-17.25</td><td>42.85</td><td>13.90</td><td>Peak</td><td>100</td><td>306</td></tr><tr><td>8</td><td>17475.00</td><td>61.01</td><td>68.20</td><td>-7.19</td><td>42.46</td><td>18.55</td><td>Peak</td><td>100</td><td>297</td></tr></table>								Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	57.24	68.20	-10.96	52.43	4.81	Peak	225	297	2	5850.00	66.53	122.20	-55.67	60.88	5.65	Peak	225	297	3	5855.00	64.42	110.80	-46.38	58.77	5.65	Peak	225	297	4	5875.00	58.53	105.20	-46.67	52.87	5.66	Peak	225	297	5	5925.00	58.08	68.20	-10.12	52.47	5.61	Peak	225	297	6	11650.00	44.19	54.00	-9.81	30.29	13.90	Average	100	306	7	11650.00	56.75	74.00	-17.25	42.85	13.90	Peak	100	306	8	17475.00	61.01	68.20	-7.19	42.46	18.55	Peak	100	297
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Modulation	ax HE20	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																																																													
Level (dBUV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>57.30</td><td>68.20</td><td>-10.90</td><td>52.49</td><td>4.81</td><td>Peak</td><td>355</td><td>26</td></tr><tr><td>2</td><td>5850.00</td><td>70.21</td><td>122.20</td><td>-51.99</td><td>64.56</td><td>5.65</td><td>Peak</td><td>355</td><td>26</td></tr><tr><td>3</td><td>5855.00</td><td>67.17</td><td>110.80</td><td>-43.63</td><td>61.52</td><td>5.65</td><td>Peak</td><td>355</td><td>26</td></tr><tr><td>4</td><td>5875.00</td><td>59.25</td><td>105.20</td><td>-45.95</td><td>53.59</td><td>5.66</td><td>Peak</td><td>355</td><td>26</td></tr><tr><td>5</td><td>5925.00</td><td>58.26</td><td>68.20</td><td>-9.94</td><td>52.65</td><td>5.61</td><td>Peak</td><td>355</td><td>26</td></tr><tr><td>6</td><td>11650.00</td><td>45.34</td><td>54.00</td><td>-8.66</td><td>31.44</td><td>13.90</td><td>Average</td><td>265</td><td>281</td></tr><tr><td>7</td><td>11650.00</td><td>59.21</td><td>74.00</td><td>-14.79</td><td>45.31</td><td>13.90</td><td>Peak</td><td>265</td><td>281</td></tr><tr><td>8</td><td>17475.00</td><td>61.22</td><td>68.20</td><td>-6.98</td><td>42.67</td><td>18.55</td><td>Peak</td><td>100</td><td>290</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	57.30	68.20	-10.90	52.49	4.81	Peak	355	26	2	5850.00	70.21	122.20	-51.99	64.56	5.65	Peak	355	26	3	5855.00	67.17	110.80	-43.63	61.52	5.65	Peak	355	26	4	5875.00	59.25	105.20	-45.95	53.59	5.66	Peak	355	26	5	5925.00	58.26	68.20	-9.94	52.65	5.61	Peak	355	26	6	11650.00	45.34	54.00	-8.66	31.44	13.90	Average	265	281	7	11650.00	59.21	74.00	-14.79	45.31	13.90	Peak	265	281	8	17475.00	61.22	68.20	-6.98	42.67	18.55	Peak	100	290
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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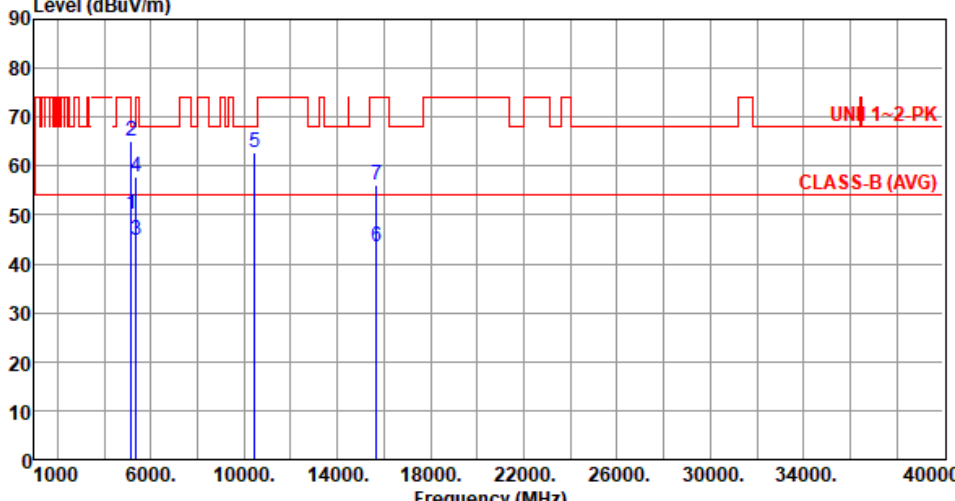
Unwanted Emissions (Above 1GHz) for ax HE40

Modulation	ax HE40		Test Freq. (MHz)		5190																																																													
Polarization	Horizontal																																																																	
Test By :Akun Chung Temperature(°C):26 Humidity(%):62																																																																		
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>51.60</td><td>54.00</td><td>-2.40</td><td>46.59</td><td>5.01</td><td>Average</td><td>178</td><td>203</td></tr><tr><td>2</td><td>5150.00</td><td>70.16</td><td>74.00</td><td>-3.84</td><td>65.15</td><td>5.01</td><td>Peak</td><td>178</td><td>203</td></tr><tr><td>3</td><td>10380.00</td><td>57.52</td><td>68.20</td><td>-10.68</td><td>43.25</td><td>14.27</td><td>Peak</td><td>300</td><td>150</td></tr><tr><td>4</td><td>15570.00</td><td>43.93</td><td>54.00</td><td>-10.07</td><td>30.45</td><td>13.48</td><td>Average</td><td>100</td><td>195</td></tr><tr><td>5</td><td>15570.00</td><td>55.99</td><td>74.00</td><td>-18.01</td><td>42.51</td><td>13.48</td><td>Peak</td><td>100</td><td>195</td></tr></tbody></table>								Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	51.60	54.00	-2.40	46.59	5.01	Average	178	203	2	5150.00	70.16	74.00	-3.84	65.15	5.01	Peak	178	203	3	10380.00	57.52	68.20	-10.68	43.25	14.27	Peak	300	150	4	15570.00	43.93	54.00	-10.07	30.45	13.48	Average	100	195	5	15570.00	55.99	74.00	-18.01	42.51	13.48	Peak	100	195
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Modulation	ax HE40	Test Freq. (MHz)	5190																																																												
Polarization	Vertical																																																														
Test By :Akun Chung Temperature(°C):26 Humidity(%):62																																																															
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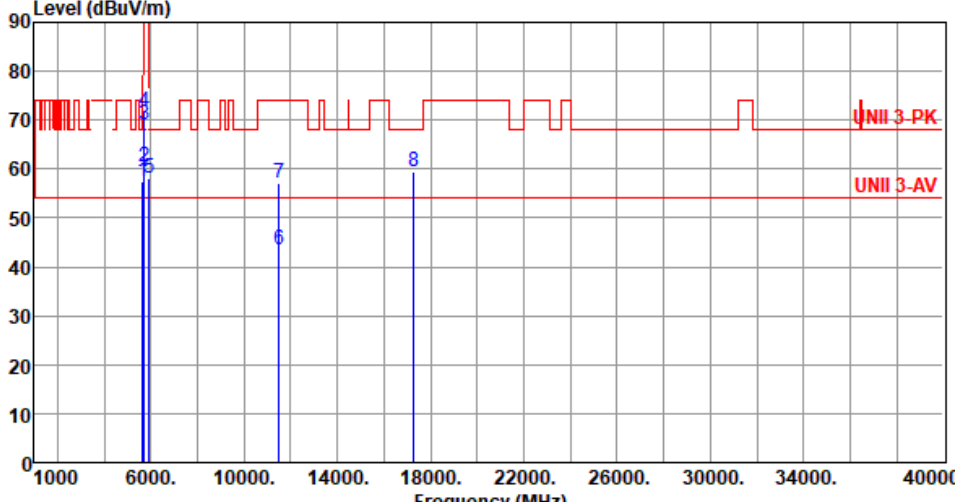


Modulation	ax HE40		Test Freq. (MHz)		5230																																																																																	
Polarization	Horizontal																																																																																					
Test By :Akun Chung Temperature(°C):26 Humidity(%):62																																																																																						
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Modulation	ax HE40	Test Freq. (MHz)	5230																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):26 Humidity(%):62																																																																																			
Level (dBuV/m) UN 1~2 PK CLASS-B (AVG) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5150.00</td><td>52.89</td><td>54.00</td><td>-1.11</td><td>47.88</td><td>5.01</td><td>Average</td><td>283</td><td>28</td></tr><tr><td>2</td><td>5150.00</td><td>67.77</td><td>74.00</td><td>-6.23</td><td>62.76</td><td>5.01</td><td>Peak</td><td>283</td><td>28</td></tr><tr><td>3</td><td>5350.00</td><td>45.20</td><td>54.00</td><td>-8.80</td><td>40.78</td><td>4.42</td><td>Average</td><td>283</td><td>28</td></tr><tr><td>4</td><td>5350.00</td><td>58.17</td><td>74.00</td><td>-15.83</td><td>53.75</td><td>4.42</td><td>Peak</td><td>283</td><td>28</td></tr><tr><td>5</td><td>10460.00</td><td>65.54</td><td>68.20</td><td>-2.66</td><td>51.11</td><td>14.43</td><td>Peak</td><td>302</td><td>122</td></tr><tr><td>6</td><td>15690.00</td><td>44.17</td><td>54.00</td><td>-9.83</td><td>30.77</td><td>13.40</td><td>Average</td><td>300</td><td>101</td></tr><tr><td>7</td><td>15690.00</td><td>56.25</td><td>74.00</td><td>-17.75</td><td>42.85</td><td>13.40</td><td>Peak</td><td>300</td><td>101</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	52.89	54.00	-1.11	47.88	5.01	Average	283	28	2	5150.00	67.77	74.00	-6.23	62.76	5.01	Peak	283	28	3	5350.00	45.20	54.00	-8.80	40.78	4.42	Average	283	28	4	5350.00	58.17	74.00	-15.83	53.75	4.42	Peak	283	28	5	10460.00	65.54	68.20	-2.66	51.11	14.43	Peak	302	122	6	15690.00	44.17	54.00	-9.83	30.77	13.40	Average	300	101	7	15690.00	56.25	74.00	-17.75	42.85	13.40	Peak	300	101
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Modulation	ax HE40	Test Freq. (MHz)	5755																																																																																										
Polarization	Horizontal																																																																																												
Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																																																													
Level (dBUV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>57.46</td><td>68.20</td><td>-10.74</td><td>52.65</td><td>4.81</td><td>Peak</td><td>225</td><td>302</td></tr><tr><td>2</td><td>5700.00</td><td>60.46</td><td>105.20</td><td>-44.74</td><td>55.44</td><td>5.02</td><td>Peak</td><td>225</td><td>302</td></tr><tr><td>3</td><td>5720.00</td><td>69.02</td><td>110.80</td><td>-41.78</td><td>63.88</td><td>5.14</td><td>Peak</td><td>225</td><td>302</td></tr><tr><td>4</td><td>5725.00</td><td>71.73</td><td>122.20</td><td>-50.47</td><td>66.56</td><td>5.17</td><td>Peak</td><td>225</td><td>302</td></tr><tr><td>5</td><td>5925.00</td><td>58.01</td><td>68.20</td><td>-10.19</td><td>52.40</td><td>5.61</td><td>Peak</td><td>225</td><td>302</td></tr><tr><td>6</td><td>11510.00</td><td>43.58</td><td>54.00</td><td>-10.42</td><td>29.18</td><td>14.40</td><td>Average</td><td>100</td><td>303</td></tr><tr><td>7</td><td>11510.00</td><td>56.98</td><td>74.00</td><td>-17.02</td><td>42.58</td><td>14.40</td><td>Peak</td><td>100</td><td>303</td></tr><tr><td>8</td><td>17265.00</td><td>59.55</td><td>68.20</td><td>-8.65</td><td>42.05</td><td>17.50</td><td>Peak</td><td>100</td><td>295</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	57.46	68.20	-10.74	52.65	4.81	Peak	225	302	2	5700.00	60.46	105.20	-44.74	55.44	5.02	Peak	225	302	3	5720.00	69.02	110.80	-41.78	63.88	5.14	Peak	225	302	4	5725.00	71.73	122.20	-50.47	66.56	5.17	Peak	225	302	5	5925.00	58.01	68.20	-10.19	52.40	5.61	Peak	225	302	6	11510.00	43.58	54.00	-10.42	29.18	14.40	Average	100	303	7	11510.00	56.98	74.00	-17.02	42.58	14.40	Peak	100	303	8	17265.00	59.55	68.20	-8.65	42.05	17.50	Peak	100	295
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
1	5650.00	57.46	68.20	-10.74	52.65	4.81	Peak	225	302																																																																																				
2	5700.00	60.46	105.20	-44.74	55.44	5.02	Peak	225	302																																																																																				
3	5720.00	69.02	110.80	-41.78	63.88	5.14	Peak	225	302																																																																																				
4	5725.00	71.73	122.20	-50.47	66.56	5.17	Peak	225	302																																																																																				
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Modulation	ax HE40	Test Freq. (MHz)	5755																																																																																										
Polarization	Vertical																																																																																												
Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																																																													
Level (dBUV/m) UNII 3-PK UNII 3-AV Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>58.57</td><td>68.20</td><td>-9.63</td><td>53.76</td><td>4.81</td><td>Peak</td><td>349</td><td>22</td></tr><tr><td>2</td><td>5700.00</td><td>62.90</td><td>105.20</td><td>-42.30</td><td>57.88</td><td>5.02</td><td>Peak</td><td>349</td><td>22</td></tr><tr><td>3</td><td>5720.00</td><td>72.86</td><td>110.80</td><td>-37.94</td><td>67.72</td><td>5.14</td><td>Peak</td><td>349</td><td>22</td></tr><tr><td>4</td><td>5725.00</td><td>75.33</td><td>122.20</td><td>-46.87</td><td>70.16</td><td>5.17</td><td>Peak</td><td>349</td><td>22</td></tr><tr><td>5</td><td>5925.00</td><td>58.38</td><td>68.20</td><td>-9.82</td><td>52.77</td><td>5.61</td><td>Peak</td><td>349</td><td>22</td></tr><tr><td>6</td><td>11510.00</td><td>43.65</td><td>54.00</td><td>-10.35</td><td>29.25</td><td>14.40</td><td>Average</td><td>263</td><td>275</td></tr><tr><td>7</td><td>11510.00</td><td>57.29</td><td>74.00</td><td>-16.71</td><td>42.89</td><td>14.40</td><td>Peak</td><td>263</td><td>275</td></tr><tr><td>8</td><td>17265.00</td><td>59.71</td><td>68.20</td><td>-8.49</td><td>42.21</td><td>17.50</td><td>Peak</td><td>100</td><td>290</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	58.57	68.20	-9.63	53.76	4.81	Peak	349	22	2	5700.00	62.90	105.20	-42.30	57.88	5.02	Peak	349	22	3	5720.00	72.86	110.80	-37.94	67.72	5.14	Peak	349	22	4	5725.00	75.33	122.20	-46.87	70.16	5.17	Peak	349	22	5	5925.00	58.38	68.20	-9.82	52.77	5.61	Peak	349	22	6	11510.00	43.65	54.00	-10.35	29.25	14.40	Average	263	275	7	11510.00	57.29	74.00	-16.71	42.89	14.40	Peak	263	275	8	17265.00	59.71	68.20	-8.49	42.21	17.50	Peak	100	290
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	ax HE40		Test Freq. (MHz)	5795																																																																																																																			
Polarization	Horizontal																																																																																																																						
Test By :Roger Lu			Temperature(°C):26			Humidity(%):62																																																																																																																	
Level (dBuV/m) Frequency (MHz) <table><thead><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></thead><tbody><tr><td>1</td><td>5650.00</td><td>57.02</td><td>68.20</td><td>-11.18</td><td>52.21</td><td>4.81</td><td>Peak</td><td>211</td><td>295</td></tr><tr><td>2</td><td>5850.00</td><td>61.53</td><td>122.20</td><td>-60.67</td><td>55.88</td><td>5.65</td><td>Peak</td><td>211</td><td>295</td></tr><tr><td>3</td><td>5855.00</td><td>60.53</td><td>110.80</td><td>-50.27</td><td>54.88</td><td>5.65</td><td>Peak</td><td>211</td><td>295</td></tr><tr><td>4</td><td>5875.00</td><td>59.53</td><td>105.20</td><td>-45.67</td><td>53.87</td><td>5.66</td><td>Peak</td><td>211</td><td>295</td></tr><tr><td>5</td><td>5925.00</td><td>58.27</td><td>68.20</td><td>-9.93</td><td>52.66</td><td>5.61</td><td>Peak</td><td>211</td><td>295</td></tr><tr><td>6</td><td>11590.00</td><td>43.48</td><td>54.00</td><td>-10.52</td><td>29.29</td><td>14.19</td><td>Average</td><td>100</td><td>309</td></tr><tr><td>7</td><td>11590.00</td><td>56.78</td><td>74.00</td><td>-17.22</td><td>42.59</td><td>14.19</td><td>Peak</td><td>100</td><td>309</td></tr><tr><td>8</td><td>17385.00</td><td>60.37</td><td>68.20</td><td>-7.83</td><td>42.24</td><td>18.13</td><td>Peak</td><td>100</td><td>315</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table						dBuV			cm	deg	1	5650.00	57.02	68.20	-11.18	52.21	4.81	Peak	211	295	2	5850.00	61.53	122.20	-60.67	55.88	5.65	Peak	211	295	3	5855.00	60.53	110.80	-50.27	54.88	5.65	Peak	211	295	4	5875.00	59.53	105.20	-45.67	53.87	5.66	Peak	211	295	5	5925.00	58.27	68.20	-9.93	52.66	5.61	Peak	211	295	6	11590.00	43.48	54.00	-10.52	29.29	14.19	Average	100	309	7	11590.00	56.78	74.00	-17.22	42.59	14.19	Peak	100	309	8	17385.00	60.37	68.20	-7.83	42.24	18.13	Peak	100	315
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																														
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																																														
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1	5650.00	57.02	68.20	-11.18	52.21	4.81	Peak	211	295																																																																																																														
2	5850.00	61.53	122.20	-60.67	55.88	5.65	Peak	211	295																																																																																																														
3	5855.00	60.53	110.80	-50.27	54.88	5.65	Peak	211	295																																																																																																														
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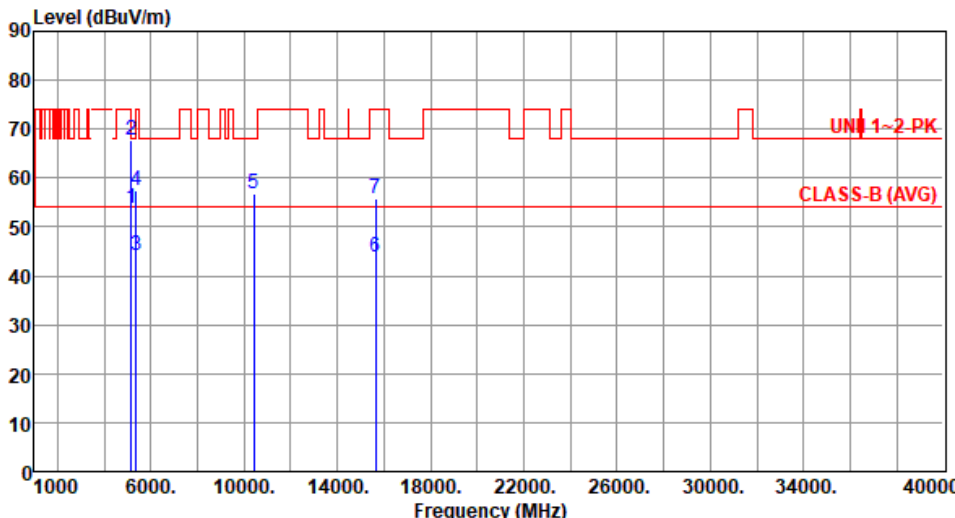


Modulation	ax HE40	Test Freq. (MHz)	5795																																																																																										
Polarization	Vertical																																																																																												
Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																																																													
Level (dBuV/m) UNII 3-PK UNII 3-AV Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>57.50</td><td>68.20</td><td>-10.70</td><td>52.69</td><td>4.81</td><td>Peak</td><td>347</td><td>25</td></tr><tr><td>2</td><td>5850.00</td><td>65.28</td><td>122.20</td><td>-56.92</td><td>59.63</td><td>5.65</td><td>Peak</td><td>347</td><td>25</td></tr><tr><td>3</td><td>5855.00</td><td>63.50</td><td>110.80</td><td>-47.30</td><td>57.85</td><td>5.65</td><td>Peak</td><td>347</td><td>25</td></tr><tr><td>4</td><td>5875.00</td><td>61.45</td><td>105.20</td><td>-43.75</td><td>55.79</td><td>5.66</td><td>Peak</td><td>347</td><td>25</td></tr><tr><td>5</td><td>5925.00</td><td>58.41</td><td>68.20</td><td>-9.79</td><td>52.80</td><td>5.61</td><td>Peak</td><td>347</td><td>25</td></tr><tr><td>6</td><td>11590.00</td><td>43.55</td><td>54.00</td><td>-10.45</td><td>29.36</td><td>14.19</td><td>Average</td><td>265</td><td>273</td></tr><tr><td>7</td><td>11590.00</td><td>57.15</td><td>74.00</td><td>-16.85</td><td>42.96</td><td>14.19</td><td>Peak</td><td>265</td><td>273</td></tr><tr><td>8</td><td>17385.00</td><td>60.46</td><td>68.20</td><td>-7.74</td><td>42.33</td><td>18.13</td><td>Peak</td><td>100</td><td>288</td></tr></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	57.50	68.20	-10.70	52.69	4.81	Peak	347	25	2	5850.00	65.28	122.20	-56.92	59.63	5.65	Peak	347	25	3	5855.00	63.50	110.80	-47.30	57.85	5.65	Peak	347	25	4	5875.00	61.45	105.20	-43.75	55.79	5.66	Peak	347	25	5	5925.00	58.41	68.20	-9.79	52.80	5.61	Peak	347	25	6	11590.00	43.55	54.00	-10.45	29.36	14.19	Average	265	273	7	11590.00	57.15	74.00	-16.85	42.96	14.19	Peak	265	273	8	17385.00	60.46	68.20	-7.74	42.33	18.13	Peak	100	288
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7	11590.00	57.15	74.00	-16.85	42.96	14.19	Peak	265	273																																																																																				
8	17385.00	60.46	68.20	-7.74	42.33	18.13	Peak	100	288																																																																																				

Unwanted Emissions (Above 1GHz) for ax HE80

Modulation	ax HE80	Test Freq. (MHz)	5210
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):26 Humidity(%):62			
Level (dBuV/m)			

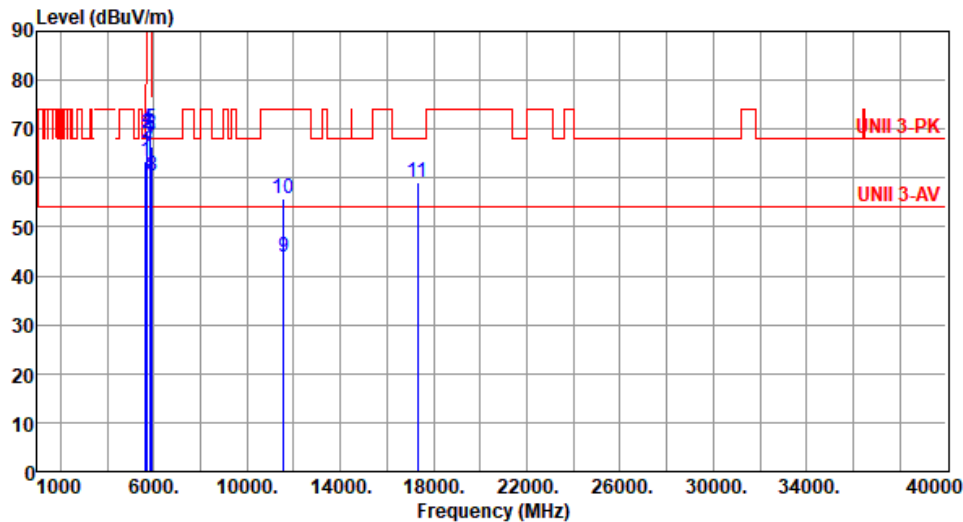


Modulation	ax HE80	Test Freq. (MHz)	5210																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):26 Humidity(%):62																																																																																			
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																										
1	5150.00	53.88	54.00	-0.12	48.87	5.01	Average	274	29																																																																										
2	5150.00	67.78	74.00	-6.22	62.77	5.01	Peak	274	29																																																																										
3	5350.00	44.30	54.00	-9.70	39.88	4.42	Average	274	29																																																																										
4	5350.00	57.40	74.00	-16.60	52.98	4.42	Peak	274	29																																																																										
5	10420.00	56.69	68.20	-11.51	42.33	14.36	Peak	100	102																																																																										
6	15630.00	43.76	54.00	-10.24	30.41	13.35	Average	100	109																																																																										
7	15630.00	55.74	74.00	-18.26	42.39	13.35	Peak	100	109																																																																										
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																			



Modulation	ax HE80		Test Freq. (MHz)		5775																																																																																																																									
Polarization	Horizontal																																																																																																																													
Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																																																																																														
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>58.24</td><td>68.20</td><td>-9.96</td><td>53.43</td><td>4.81</td><td>Peak</td><td>218</td><td>312</td></tr><tr><td>2</td><td>5700.00</td><td>62.94</td><td>105.20</td><td>-42.26</td><td>57.92</td><td>5.02</td><td>Peak</td><td>218</td><td>312</td></tr><tr><td>3</td><td>5720.00</td><td>64.48</td><td>110.80</td><td>-46.32</td><td>59.34</td><td>5.14</td><td>Peak</td><td>218</td><td>312</td></tr><tr><td>4</td><td>5725.00</td><td>66.59</td><td>122.20</td><td>-55.61</td><td>61.42</td><td>5.17</td><td>Peak</td><td>218</td><td>312</td></tr><tr><td>5</td><td>5850.00</td><td>66.14</td><td>122.20</td><td>-56.06</td><td>60.49</td><td>5.65</td><td>Peak</td><td>218</td><td>312</td></tr><tr><td>6</td><td>5855.00</td><td>66.47</td><td>110.80</td><td>-44.33</td><td>60.82</td><td>5.65</td><td>Peak</td><td>218</td><td>312</td></tr><tr><td>7</td><td>5875.00</td><td>64.30</td><td>105.20</td><td>-40.90</td><td>58.64</td><td>5.66</td><td>Peak</td><td>218</td><td>312</td></tr><tr><td>8</td><td>5925.00</td><td>58.27</td><td>68.20</td><td>-9.93</td><td>52.66</td><td>5.61</td><td>Peak</td><td>218</td><td>312</td></tr><tr><td>9</td><td>11550.00</td><td>43.50</td><td>54.00</td><td>-10.50</td><td>29.20</td><td>14.30</td><td>Average</td><td>100</td><td>293</td></tr><tr><td>10</td><td>11550.00</td><td>55.55</td><td>74.00</td><td>-18.45</td><td>41.25</td><td>14.30</td><td>Peak</td><td>100</td><td>293</td></tr><tr><td>11</td><td>17325.00</td><td>58.83</td><td>68.20</td><td>-9.37</td><td>41.12</td><td>17.71</td><td>Peak</td><td>100</td><td>295</td></tr></table>								Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	58.24	68.20	-9.96	53.43	4.81	Peak	218	312	2	5700.00	62.94	105.20	-42.26	57.92	5.02	Peak	218	312	3	5720.00	64.48	110.80	-46.32	59.34	5.14	Peak	218	312	4	5725.00	66.59	122.20	-55.61	61.42	5.17	Peak	218	312	5	5850.00	66.14	122.20	-56.06	60.49	5.65	Peak	218	312	6	5855.00	66.47	110.80	-44.33	60.82	5.65	Peak	218	312	7	5875.00	64.30	105.20	-40.90	58.64	5.66	Peak	218	312	8	5925.00	58.27	68.20	-9.93	52.66	5.61	Peak	218	312	9	11550.00	43.50	54.00	-10.50	29.20	14.30	Average	100	293	10	11550.00	55.55	74.00	-18.45	41.25	14.30	Peak	100	293	11	17325.00	58.83	68.20	-9.37	41.12	17.71	Peak	100	295
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																																																					
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Modulation	ax HE80		Test Freq. (MHz)		5775																																																																																																																									
Polarization	Vertical																																																																																																																													
Test By :Roger Lu Temperature(°C):26 Humidity(%):62																																																																																																																														
 <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>63.38</td><td>68.20</td><td>-4.82</td><td>58.57</td><td>4.81</td><td>Peak</td><td>344</td><td>20</td></tr><tr><td>2</td><td>5700.00</td><td>67.16</td><td>105.20</td><td>-38.04</td><td>62.14</td><td>5.02</td><td>Peak</td><td>344</td><td>20</td></tr><tr><td>3</td><td>5720.00</td><td>69.09</td><td>110.80</td><td>-41.71</td><td>63.95</td><td>5.14</td><td>Peak</td><td>344</td><td>20</td></tr><tr><td>4</td><td>5725.00</td><td>69.85</td><td>122.20</td><td>-52.35</td><td>64.68</td><td>5.17</td><td>Peak</td><td>344</td><td>20</td></tr><tr><td>5</td><td>5850.00</td><td>70.15</td><td>122.20</td><td>-52.05</td><td>64.50</td><td>5.65</td><td>Peak</td><td>344</td><td>20</td></tr><tr><td>6</td><td>5855.00</td><td>68.75</td><td>110.80</td><td>-42.05</td><td>63.10</td><td>5.65</td><td>Peak</td><td>344</td><td>20</td></tr><tr><td>7</td><td>5875.00</td><td>66.51</td><td>105.20</td><td>-38.69</td><td>60.85</td><td>5.66</td><td>Peak</td><td>344</td><td>20</td></tr><tr><td>8</td><td>5925.00</td><td>60.56</td><td>68.20</td><td>-7.64</td><td>54.95</td><td>5.61</td><td>Peak</td><td>344</td><td>20</td></tr><tr><td>9</td><td>11550.00</td><td>43.82</td><td>54.00</td><td>-10.18</td><td>29.52</td><td>14.30</td><td>Average</td><td>100</td><td>104</td></tr><tr><td>10</td><td>11550.00</td><td>55.78</td><td>74.00</td><td>-18.22</td><td>41.48</td><td>14.30</td><td>Peak</td><td>100</td><td>104</td></tr><tr><td>11</td><td>17325.00</td><td>59.10</td><td>68.20</td><td>-9.10</td><td>41.39</td><td>17.71</td><td>Peak</td><td>100</td><td>102</td></tr></table>								Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	63.38	68.20	-4.82	58.57	4.81	Peak	344	20	2	5700.00	67.16	105.20	-38.04	62.14	5.02	Peak	344	20	3	5720.00	69.09	110.80	-41.71	63.95	5.14	Peak	344	20	4	5725.00	69.85	122.20	-52.35	64.68	5.17	Peak	344	20	5	5850.00	70.15	122.20	-52.05	64.50	5.65	Peak	344	20	6	5855.00	68.75	110.80	-42.05	63.10	5.65	Peak	344	20	7	5875.00	66.51	105.20	-38.69	60.85	5.66	Peak	344	20	8	5925.00	60.56	68.20	-7.64	54.95	5.61	Peak	344	20	9	11550.00	43.82	54.00	-10.18	29.52	14.30	Average	100	104	10	11550.00	55.78	74.00	-18.22	41.48	14.30	Peak	100	104	11	17325.00	59.10	68.20	-9.10	41.39	17.71	Peak	100	102
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																																																					
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																																																																																																														

Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-0.70	-0.41	-0.95	-1.01
T20°CVmin	-0.90	-0.05	-0.43	-0.64
T50°CVnom	-3.42	-3.30	-3.45	-3.45
T40°CVnom	-0.94	-0.95	-0.48	-0.58
T30°CVnom	-1.38	-0.96	-1.69	-0.87
T20°CVnom	-1.56	-1.44	-2.05	-1.36
T10°CVnom	-0.59	-0.93	-0.02	-0.83
T0°CVnom	-0.34	0.17	-0.05	-0.73
T-10°CVnom	9.28	9.45	9.97	9.59
T-20°CVnom	13.16	13.77	13.17	13.78
T-30°CVnom	13.07	13.64	13.57	13.29
Vnom [V]: 110	Vmax [V]: 126.5		Vmin [V]: 93.5	
Tnom [°C]: 20	Tmax [°C]: 50		Tmin [°C]: -30	

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-0.78	-0.99	-0.86	-0.73
T20°CVmin	-1.16	-0.75	-0.59	-1.14
T50°CVnom	-2.96	-3.04	-2.96	-2.92
T40°CVnom	-1.09	-1.14	-0.76	-0.59
T30°CVnom	-1.07	-0.63	-1.02	-0.63
T20°CVnom	-1.00	-0.82	-0.69	-0.93
T10°CVnom	-0.59	-0.10	-0.30	-0.53
T0°CVnom	-0.31	-0.31	0.10	-0.38
T-10°CVnom	8.44	8.92	8.87	8.66
T-20°CVnom	11.37	11.08	11.75	11.25
T-30°CVnom	12.01	12.43	12.31	11.83
Vnom [V]: 110	Vmax [V]: 126.5		Vmin [V]: 93.5	
Tnom [°C]: 20	Tmax [°C]: 50		Tmin [°C]: -30	

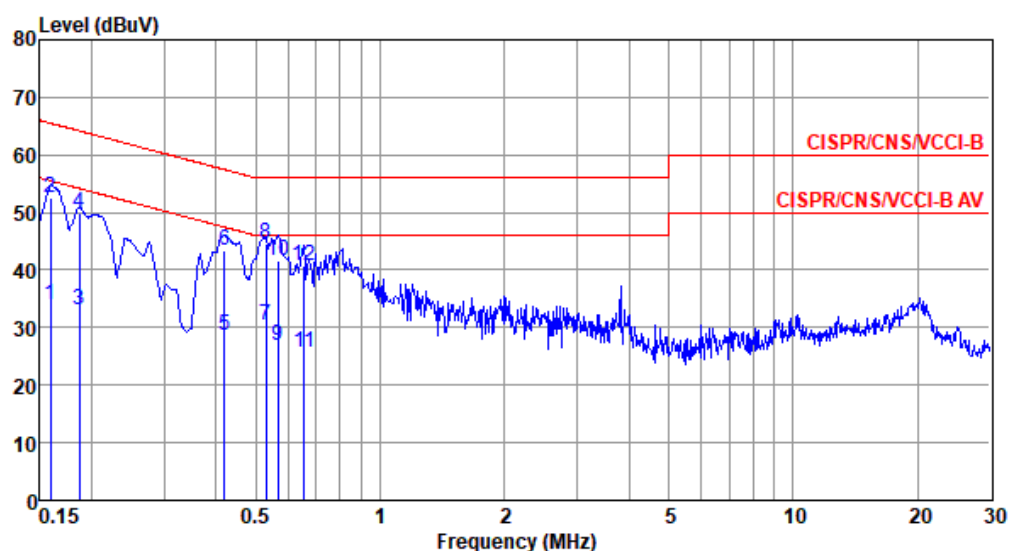


Modulation Mode	ax HE20-OFDMA	Test Freq. (MHz)	5200
Power Phase	Line		

Test by : Joe Liao

Temperature: 26°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	0.159	33.95	55.52	-21.57	23.99	9.68	0.08	0.20	Average
2	0.159	52.44	65.52	-13.08	42.48	9.68	0.08	0.20	QP
3	0.186	33.02	54.20	-21.18	23.05	9.68	0.08	0.21	Average
4	0.186	49.80	64.20	-14.40	39.83	9.68	0.08	0.21	QP
5	0.419	28.76	47.46	-18.70	18.65	9.67	0.08	0.36	Average
6	0.419	43.46	57.46	-14.00	33.35	9.67	0.08	0.36	QP
7	0.529	30.28	46.00	-15.72	20.15	9.67	0.10	0.36	Average
8*	0.529	44.72	56.00	-11.28	34.59	9.67	0.10	0.36	QP
9	0.564	26.83	46.00	-19.17	16.69	9.67	0.11	0.36	Average
10	0.564	41.59	56.00	-14.41	31.45	9.67	0.11	0.36	QP
11	0.654	25.79	46.00	-20.21	15.62	9.68	0.12	0.37	Average
12	0.654	40.66	56.00	-15.34	30.49	9.68	0.12	0.37	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).

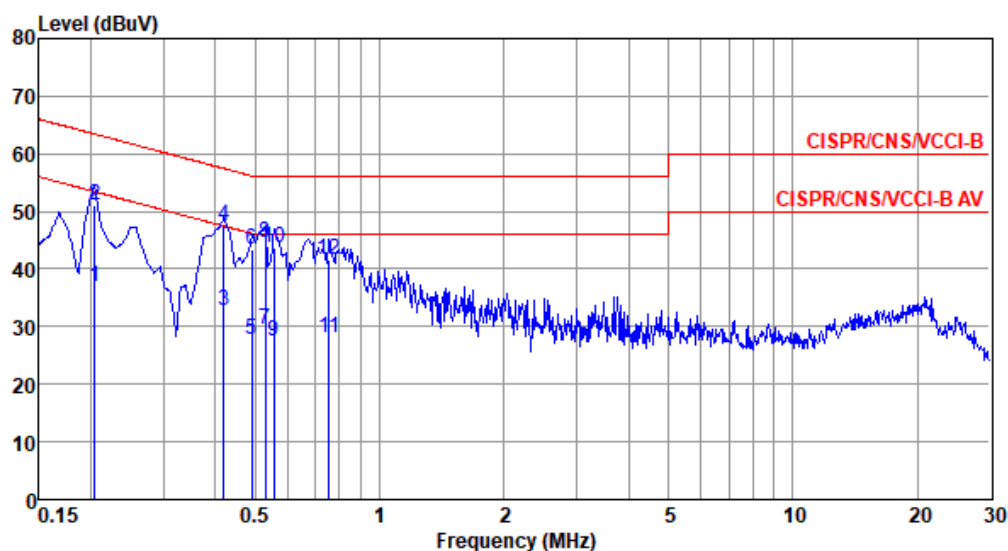


Modulation Mode	ax HE20-OFDMA	Test Freq. (MHz)	5200
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 26°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	0.204	36.79	53.45	-16.66	26.92	9.61	0.08	0.18	Average
2	0.204	51.11	63.45	-12.34	41.24	9.61	0.08	0.18	QP
3	0.419	32.67	47.46	-14.79	22.79	9.61	0.08	0.19	Average
4*	0.419	47.63	57.46	-9.83	37.75	9.61	0.08	0.19	QP
5	0.491	27.89	46.14	-18.25	17.97	9.61	0.10	0.21	Average
6	0.491	43.29	56.14	-12.85	33.37	9.61	0.10	0.21	QP
7	0.529	29.57	46.00	-16.43	19.64	9.61	0.10	0.22	Average
8	0.529	44.56	56.00	-11.44	34.63	9.61	0.10	0.22	QP
9	0.555	27.40	46.00	-18.60	17.46	9.61	0.11	0.22	Average
10	0.555	43.76	56.00	-12.24	33.82	9.61	0.11	0.22	QP
11	0.755	28.14	46.00	-17.86	18.14	9.61	0.14	0.25	Average
12	0.755	41.66	56.00	-14.34	31.66	9.61	0.14	0.25	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).

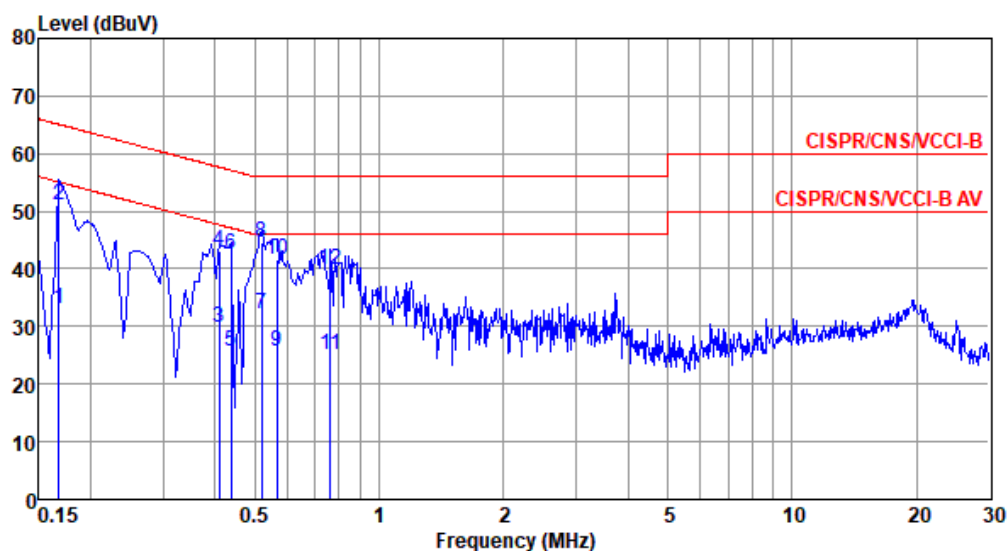


Modulation Mode	ax HE20-OFDMA	Test Freq. (MHz)	5745
Power Phase	Line		

Test by : Joe Liao

Temperature: 26°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	0.168	33.12	55.08	-21.96	23.15	9.68	0.08	0.21	Average
2	0.168	51.19	65.08	-13.89	41.22	9.68	0.08	0.21	QP
3	0.410	29.82	47.64	-17.82	19.71	9.67	0.08	0.36	Average
4	0.410	43.20	57.64	-14.44	33.09	9.67	0.08	0.36	QP
5	0.437	25.66	47.11	-21.45	15.54	9.67	0.09	0.36	Average
6	0.437	42.47	57.11	-14.64	32.35	9.67	0.09	0.36	QP
7	0.518	32.31	46.00	-13.69	22.18	9.67	0.10	0.36	Average
8*	0.518	44.60	56.00	-11.40	34.47	9.67	0.10	0.36	QP
9	0.564	25.71	46.00	-20.29	15.57	9.67	0.11	0.36	Average
10	0.564	41.72	56.00	-14.28	31.58	9.67	0.11	0.36	QP
11	0.763	25.18	46.00	-20.82	14.99	9.68	0.14	0.37	Average
12	0.763	39.88	56.00	-16.12	29.69	9.68	0.14	0.37	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).

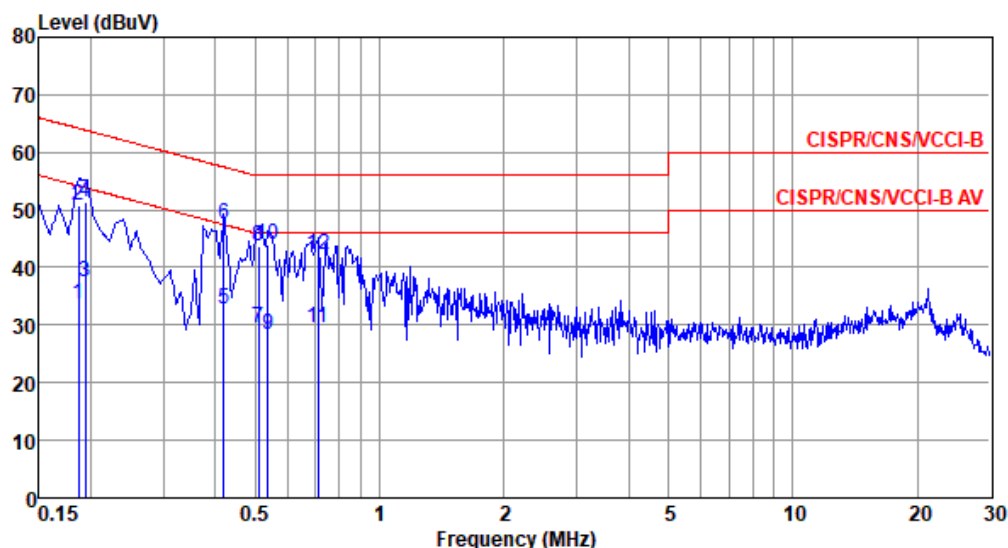


Modulation Mode	ax HE20-OFDMA	Test Freq. (MHz)	5745
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 26°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	0.186	33.80	54.20	-20.40	23.94	9.61	0.08	0.17	Average
2	0.186	50.86	64.20	-13.34	41.00	9.61	0.08	0.17	QP
3	0.194	37.61	53.84	-16.23	27.74	9.61	0.08	0.18	Average
4	0.194	51.42	63.84	-12.42	41.55	9.61	0.08	0.18	QP
5	0.419	32.82	47.46	-14.64	22.94	9.61	0.08	0.19	Average
6*	0.419	47.55	57.46	-9.91	37.67	9.61	0.08	0.19	QP
7	0.510	29.46	46.00	-16.54	19.54	9.61	0.10	0.21	Average
8	0.510	43.79	56.00	-12.21	33.87	9.61	0.10	0.21	QP
9	0.538	28.36	46.00	-17.64	18.42	9.61	0.11	0.22	Average
10	0.538	43.90	56.00	-12.10	33.96	9.61	0.11	0.22	QP
11	0.708	29.62	46.00	-16.38	19.63	9.61	0.13	0.25	Average
12	0.708	42.10	56.00	-13.90	32.11	9.61	0.13	0.25	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).