

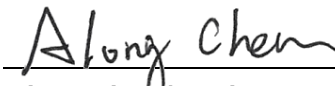
FCC Test Report

FCC ID : I8803785
Equipment : 802.11ax (WiFi 6) Dual-Radio Unified Pro
Outdoor Access Point
Model No. : WAX655E
Brand Name : ZYXEL
Applicant : Zyxel Communications Corporation
Address : No.2 Industry East RD. IX, Hsinchu Science
Park, Hsinchu 30075, Taiwan, R.O.C
Standard : 47 CFR FCC Part 15.407
Received Date : Sep. 27, 2022
Tested Date : Sep. 16 ~ Oct. 27, 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

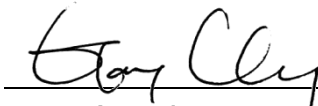

Gary Chang / Manager

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Appendix A. Emission Bandwidth

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Appendix F. AC Power Line Conducted Emissions

Release Record

Report No.	Version	Description	Issued Date
FR292702AN	Rev. 01	Initial issue	Nov. 15, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.476MHz 43.35 (Margin -3.07dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 28725.00MHz 68.09 (Margin -0.11dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: Non-beamforming mode 5150~5250MHz: 17.85 5250~5350MHz: 23.73 5470~5725MHz: 23.83 5725~5850MHz: 27.52 Beamforming mode 5150~5250MHz: 11.67 5250~5350MHz: 17.71 5470~5725MHz: 17.81 5725~5850MHz: 21.50	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 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	MCS 0-31
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	4	MCS 0-31
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	4	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530-5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	4	MCS 0-9
5150-5250 5250-5350 5500-5700	ac (VHT160)	5250 5570	50 [1] 114 [1]	4	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	4	MCS 0-11

5150-5250 5250-5350 5470-5725 5725-5850	ax (HE80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	4	MCS 0-11
5150-5250 5250-5350 5500-5700	ax (HE160)	5250 5570	50 [1] 114 [1]	4	MCS 0-11
Note 1: BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation. Note 2: 802.11n/ac/ax supports beamforming function. Note 3: TPC function is supported.					

1.1.2 Antenna Details

Ant. Model	Type	Connector	Operating Frequencies (MHz) / Gain (dBi)				
			2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
RFA-25-T200-N1-C262	Dipole	N type	4	5.33	5.49	5.96	5.75

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	55Vdc from POE
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Note: The above power supply is not bundled in market.

1.1.4 Accessories

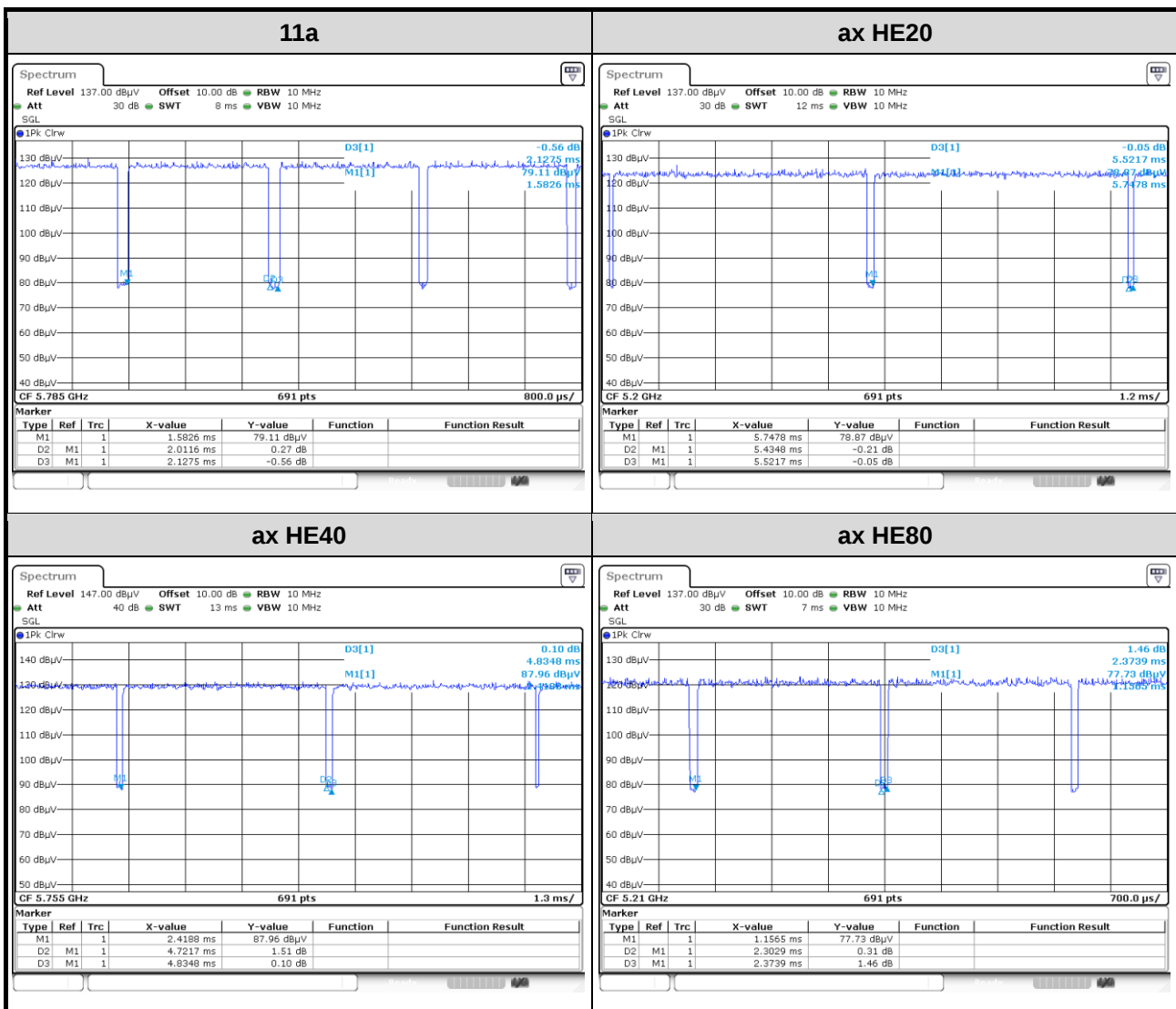
N/A

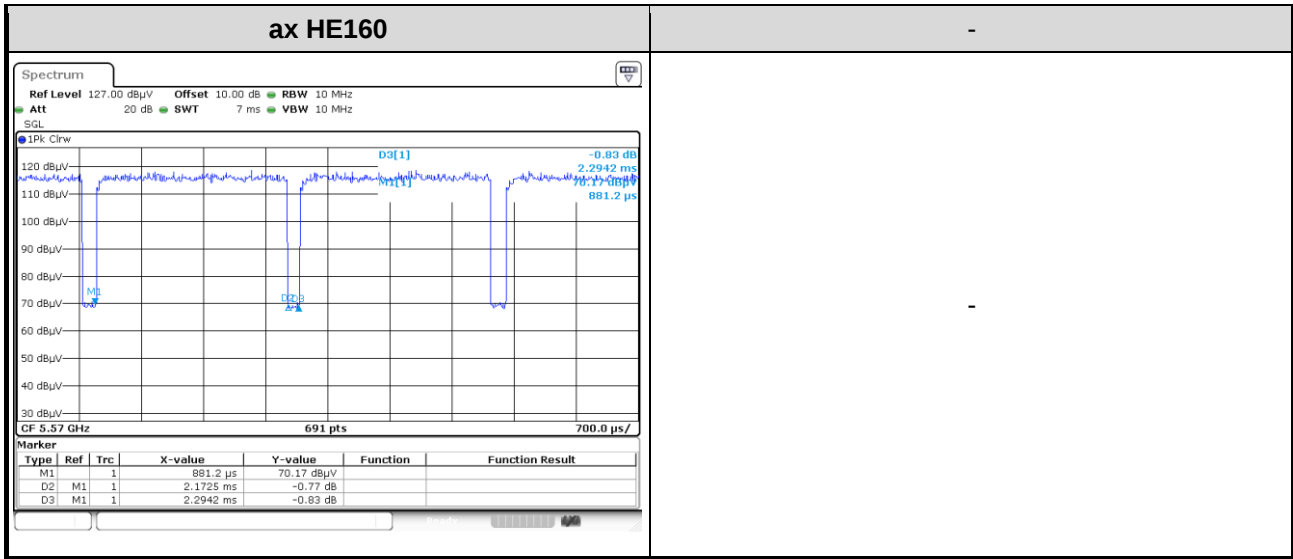
1.1.5 Channel List

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	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	802.11ac VHT80 / ax HE80	
120	5600	42	5210
124	5620	58	5290
128	5640	106	5530
132	5660	122	5610
136	5680	138	5690
140	5700	155	5775
144	5720	ac VHT160 / ax HE160	
149	5745	50	5250
153	5765	114	5570
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	QSPR, V 5.0-00200		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	94.55%	0.24
	ax HE20	98.43%	0.07
	ax HE40	97.66%	0.10
	ax HE80	97.01%	0.13
	ax HE160	94.70%	0.24





1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	12
11a	5200	12
11a	5240	12
11a	5260	11.5
11a	5300	11.5
11a	5320	11.5
11a	5500	11.5
11a	5580	11.5
11a	5700	11.5
11a	5745	20
11a	5785	20.5
11a	5825	20
ax HE20	5180	11.5
ax HE20	5200	11.5
ax HE20	5240	11.5
ax HE20	5260	17
ax HE20	5300	17
ax HE20	5320	17
ax HE20	5500	17
ax HE20	5580	17.5
ax HE20	5700	16
ax HE20	5745	19.5
ax HE20	5785	20
ax HE20	5825	20

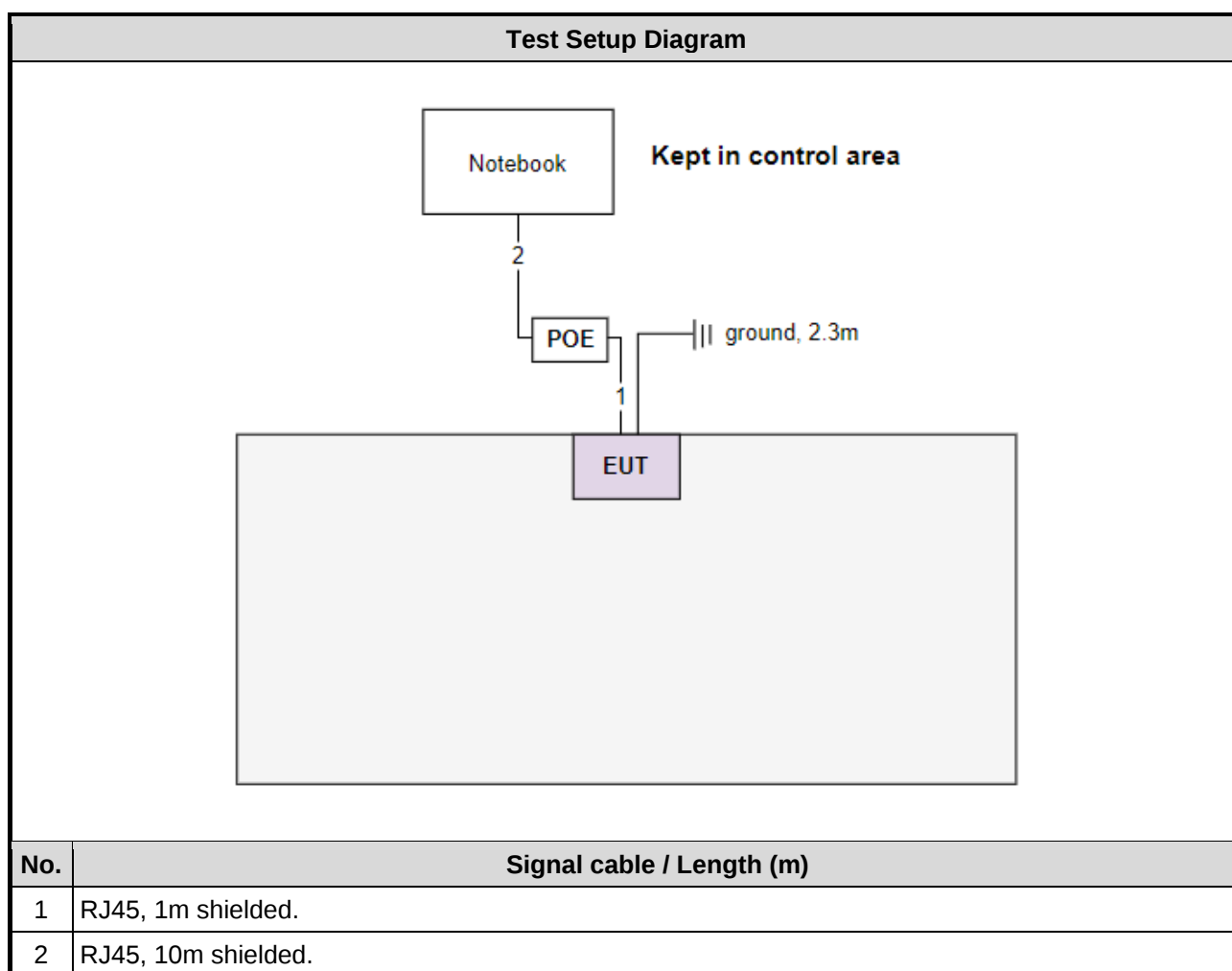
Modulation Mode	Test Frequency (MHz)	Power Index
ax HE40	5190	11.5
ax HE40	5230	11.5
ax HE40	5270	17
ax HE40	5310	14.5
ax HE40	5510	14
ax HE40	5590	17.5
ax HE40	5670	16.5
ax HE40	5755	21
ax HE40	5795	21.5
ax HE80	5210	11.5
ax HE80	5290	14
ax HE80	5530	14
ax HE80	5610	17.5
ax HE80	5775	18.5
ax HE160	5250	14
ax HE160	5570	14.5

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5720	11.5
ax HE20	5720	17
ax HE40	5710	17.5
ax HE80	5690	17.5

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude 5400	DoC	---
2	POE	ZYXEL	PoE12-30W	---	Provided by applicant.
3	RJ45 cable	ICC	RJ45-10m	---	---
4	RJ45 cable	ICC	RJ45-1m	---	---
5	Ground cable	ICC	GC-2.3m	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission below 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Oct. 27, 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	VULB9168-522	Aug. 03, 2022	Aug. 02, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2022	Jun. 27, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 04, 2022	Oct. 03, 2023
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 04, 2022	Oct. 03, 2023
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 04, 2022	Oct. 03, 2023
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	Sep. 16 ~ Sep. 20, 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 9170517	Nov. 04, 2021	Nov. 03, 2022
Preamplifier	EMC	EMC118A45SE	980898	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045B	980192	Jul. 08, 2022	Jul. 07, 2023
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Oct. 25, 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	GCT-225-40-SP-SD	MAF1212-002	Jun. 22, 2022	Jun. 21, 2023
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 03, 2021	Dec. 02, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10.8.3	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	Oct. 27, 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. 17, 2022	Oct. 16, 2023
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.					

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
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emissions	ax HE80	5610	MCS 0	---
Unwanted Emissions ≤1GHz	ax HE80	5610	MCS 0	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	ax HE80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	ax HE160	5250 / 5570	MCS 0	
Frequency Stability	Un-modulation	5300	---	---
Beamforming mode				
Conducted Output Power	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	---
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	ax HE80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	ax HE160	5250 / 5570	MCS 0	

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emissions	ax HE40	5795	MCS 0	---
Unwanted Emissions ≤1GHz	ax HE40	5795	MCS 0	---
Unwanted Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	---
Conducted Output Power	ax HE20	5745 / 5785 / 5825	MCS 0	
Emission Bandwidth	ax HE40	5755 / 5795	MCS 0	
6dB bandwidth	ax HE80	5775	MCS 0	
Power Spectral Density	ax HE80	5775	MCS 0	---
Frequency Stability	Un-modulation	5785	---	---
Beamforming mode				
Conducted Output Power	ax HE20	5745 / 5785 / 5825	MCS 0	---
	ax HE40	5755 / 5795	MCS 0	
	ax HE80	5775	MCS 0	

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.

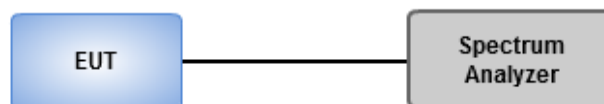
Occupied Bandwidth

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	22°C / 63%	Tested By	Aska Huang
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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
☒	5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
☒	5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
☒	5725 ~ 5850	Conducted Power: 1 W
Note: "B" is the 26dB emission bandwidth in MHz.		

3.2.2 Test Procedures

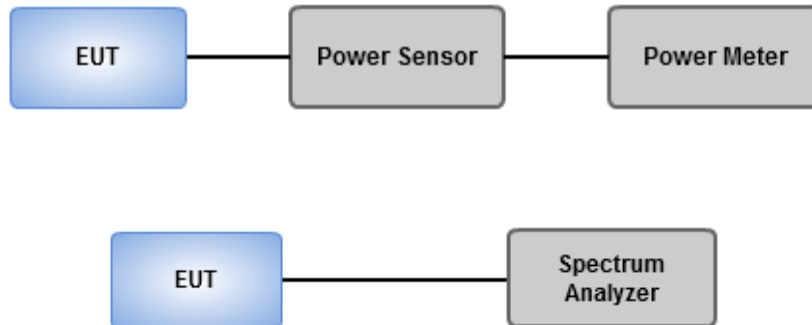
Method PM-G (Measurement using a gated RF average power meter)

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.

Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	22°C / 63%	Tested By	Aska Huang
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Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of 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
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz
☒	5725 ~ 5850	30 dBm /500 kHz

3.3.2 Test Procedures

For 5150 ~ 5250 MHz / 5250 ~ 5350 MHz / 5470 ~ 5725 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

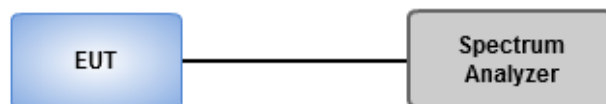
Duty cycle $\geq 98\%$

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	22°C / 63%	Tested By	Aska Huang
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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]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
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

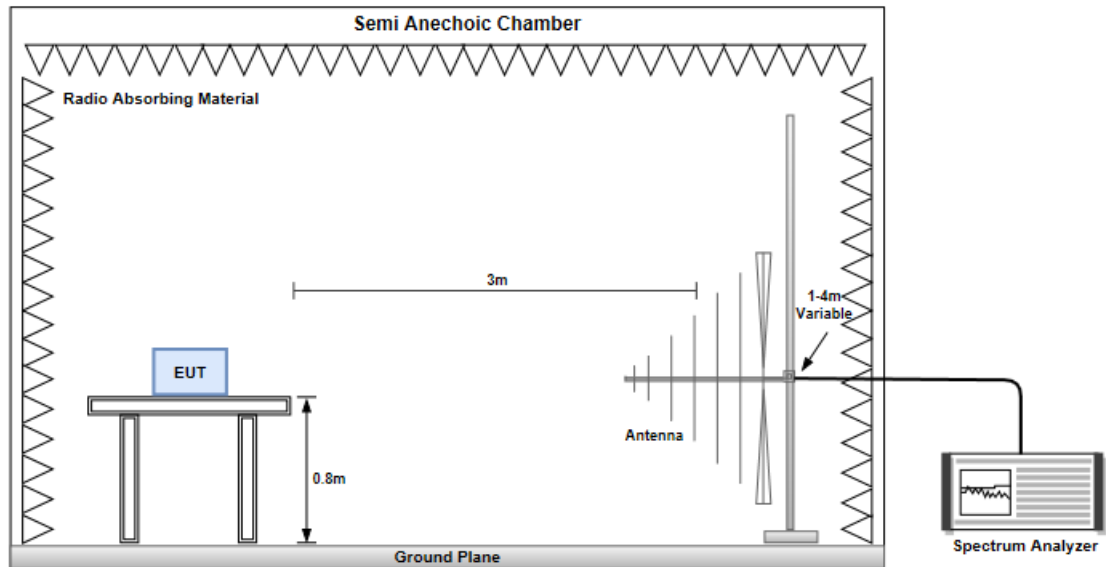
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

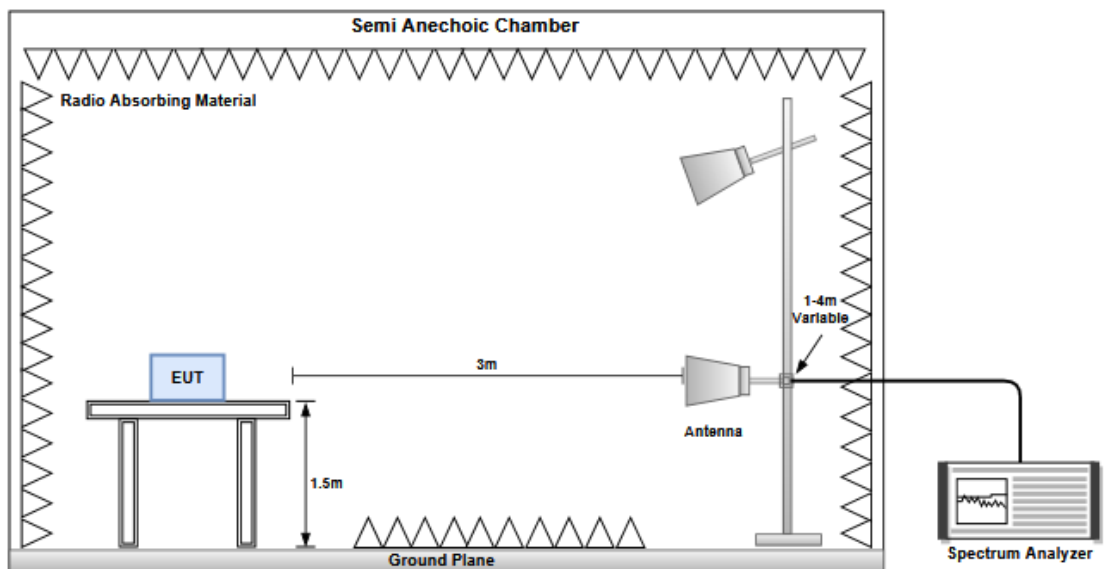
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Unwanted Emissions below 1 GHz



Unwanted Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Frequency Stability

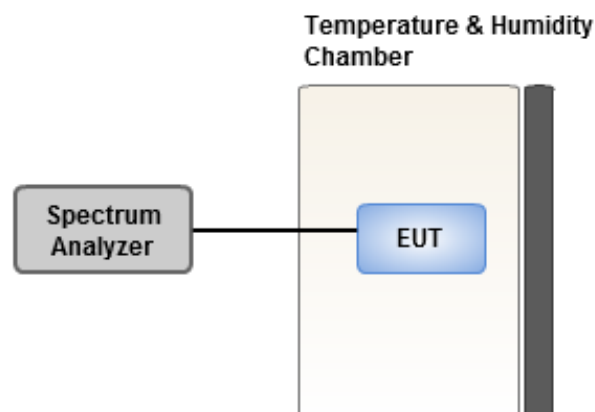
3.5.1 Limit of Frequency Stability

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	22°C / 63%	Tested By	Aska Huang
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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

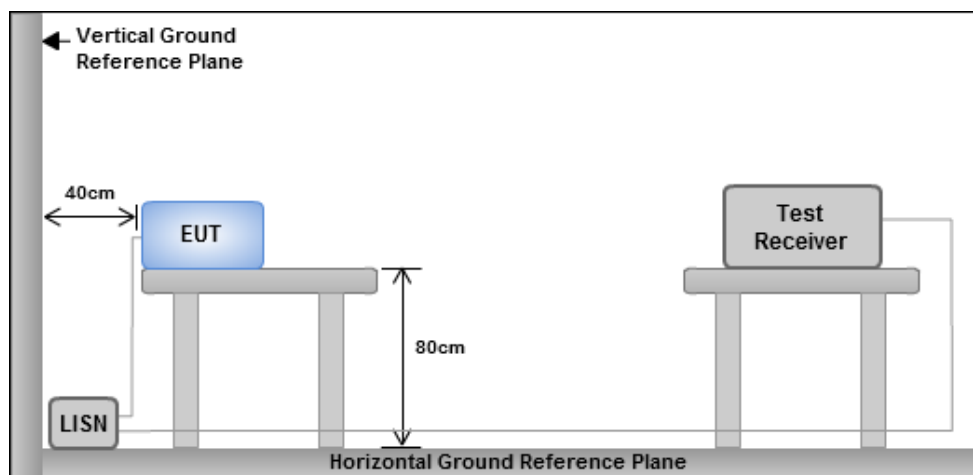
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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)_4TX	20.64M	16.732M	16M8D1D	20.16M	16.642M
802.11ax HEW20_Nss4,(MCS0)_4TX	22.35M	19.16M	19M2D1D	21.36M	19.1M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.56M	37.841M	37M9D1D	40.14M	37.781M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.44M	77.481M	77M5D1D	82.2M	77.361M
802.11ax HEW160_Nss4,(MCS0)_4TX	82.56M	78.041M	78M0D1D	82.24M	77.961M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.88M	16.702M	16M8D1D	20.1M	16.642M
802.11ax HEW20_Nss4,(MCS0)_4TX	22.26M	19.16M	19M2D1D	21.42M	19.1M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.62M	37.841M	37M9D1D	40.08M	37.721M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.68M	77.481M	77M5D1D	81.84M	77.241M
802.11ax HEW160_Nss4,(MCS0)_4TX	82.4M	77.961M	78M0D1D	81.92M	77.801M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.91M	16.702M	16M8D1D	15.105M	13.358M
802.11ax HEW20_Nss4,(MCS0)_4TX	22.23M	19.16M	19M2D1D	15.84M	14.588M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.68M	37.901M	38M0D1D	35.175M	33.758M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.56M	77.481M	77M5D1D	76.05M	73.238M
802.11ax HEW160_Nss4,(MCS0)_4TX	165.12M	154.963M	155MD1D	163.92M	154.723M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	16.972M	17M0D1D	3.14M	3.558M
802.11ax HEW20_Nss4,(MCS0)_4TX	19.11M	19.25M	19M3D1D	4.46M	4.598M
802.11ax HEW40_Nss4,(MCS0)_4TX	37.74M	42.399M	42M4D1D	3.94M	4.118M
802.11ax HEW80_Nss4,(MCS0)_4TX	77.4M	77.721M	77M8D1D	3.94M	4.238M

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)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.25M	16.672M	20.19M	16.672M	20.64M	16.702M	20.46M	16.672M
5200MHz	Pass	Inf	20.55M	16.642M	20.64M	16.672M	20.49M	16.732M	20.46M	16.672M
5240MHz	Pass	Inf	20.43M	16.672M	20.22M	16.642M	20.16M	16.702M	20.28M	16.642M
5260MHz	Pass	Inf	20.31M	16.702M	20.22M	16.672M	20.4M	16.672M	20.4M	16.642M
5300MHz	Pass	Inf	20.25M	16.702M	20.58M	16.672M	20.1M	16.672M	20.4M	16.642M
5320MHz	Pass	Inf	20.28M	16.672M	20.58M	16.672M	20.88M	16.672M	20.34M	16.642M
5500MHz	Pass	Inf	20.52M	16.702M	20.91M	16.672M	20.19M	16.672M	20.43M	16.612M
5580MHz	Pass	Inf	20.55M	16.642M	20.61M	16.672M	20.19M	16.672M	20.49M	16.612M
5700MHz	Pass	Inf	20.46M	16.672M	20.52M	16.672M	20.43M	16.672M	20.49M	16.612M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.285M	13.388M	15.225M	13.403M	15.15M	13.388M	15.105M	13.358M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.578M	3.14M	3.598M	3.14M	3.598M	3.14M	3.558M
5745MHz	Pass	500k	16.32M	16.972M	16.35M	16.702M	16.35M	16.732M	16.32M	16.822M
5785MHz	Pass	500k	16.35M	16.972M	16.32M	16.732M	16.35M	16.792M	16.35M	16.942M
5825MHz	Pass	500k	16.32M	16.792M	16.35M	16.702M	16.35M	16.732M	16.35M	16.792M
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.9M	19.1M	22.32M	19.13M	21.69M	19.1M	21.78M	19.1M
5200MHz	Pass	Inf	21.78M	19.1M	22.35M	19.13M	21.63M	19.1M	21.63M	19.13M
5240MHz	Pass	Inf	21.69M	19.13M	22.08M	19.16M	21.81M	19.13M	21.36M	19.13M
5260MHz	Pass	Inf	21.81M	19.1M	21.9M	19.16M	21.63M	19.1M	21.54M	19.13M
5300MHz	Pass	Inf	21.96M	19.1M	21.81M	19.13M	21.87M	19.1M	21.42M	19.13M
5320MHz	Pass	Inf	21.81M	19.1M	22.26M	19.13M	21.78M	19.1M	21.81M	19.13M
5500MHz	Pass	Inf	21.96M	19.13M	22.08M	19.13M	21.54M	19.1M	21.66M	19.13M
5580MHz	Pass	Inf	22.23M	19.13M	22.17M	19.16M	21.66M	19.07M	21.72M	19.13M
5700MHz	Pass	Inf	21.99M	19.13M	22.05M	19.16M	21.51M	19.1M	21.72M	19.1M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.02M	14.588M	16.17M	14.618M	15.915M	14.588M	15.84M	14.588M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.54M	4.598M	4.58M	4.598M	4.46M	4.618M	4.46M	4.618M
5745MHz	Pass	500k	18.99M	19.19M	18.96M	19.16M	19.02M	19.1M	19.02M	19.22M
5785MHz	Pass	500k	19.05M	19.19M	19.11M	19.16M	19.02M	19.19M	18.99M	19.25M
5825MHz	Pass	500k	19.08M	19.13M	19.02M	19.16M	18.96M	19.16M	19.05M	19.25M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.26M	37.841M	40.32M	37.841M	40.14M	37.781M	40.2M	37.841M
5230MHz	Pass	Inf	40.5M	37.841M	40.26M	37.841M	40.14M	37.781M	40.56M	37.781M
5270MHz	Pass	Inf	40.62M	37.781M	40.44M	37.781M	40.08M	37.841M	40.32M	37.781M
5310MHz	Pass	Inf	40.26M	37.721M	40.44M	37.841M	40.26M	37.781M	40.26M	37.781M
5510MHz	Pass	Inf	40.5M	37.841M	40.2M	37.781M	40.5M	37.781M	40.68M	37.841M
5590MHz	Pass	Inf	40.2M	37.841M	40.44M	37.781M	40.38M	37.721M	40.62M	37.841M

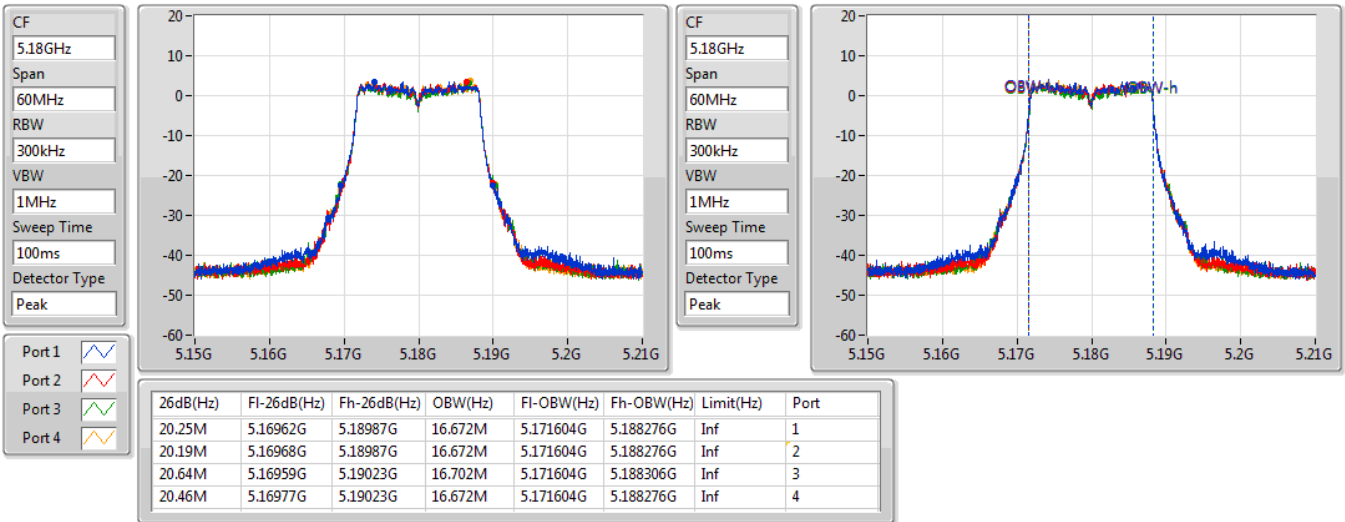
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5670MHz	Pass	Inf	40.56M	37.901M	40.38M	37.781M	40.56M	37.841M	40.26M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.21M	33.758M	35.175M	33.758M	35.21M	33.793M	35.245M	33.793M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	4.118M	3.96M	4.158M	4.04M	4.138M	3.94M	4.318M
5755MHz	Pass	500k	37.44M	38.921M	37.26M	38.081M	37.14M	38.201M	37.74M	38.921M
5795MHz	Pass	500k	36.06M	38.921M	36.96M	38.141M	37.68M	38.441M	37.38M	42.399M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	77.481M	82.32M	77.361M	82.44M	77.361M	82.2M	77.361M
5290MHz	Pass	Inf	82.2M	77.361M	82.68M	77.241M	82.32M	77.481M	81.84M	77.481M
5530MHz	Pass	Inf	82.56M	77.361M	82.44M	77.361M	82.56M	77.361M	82.08M	77.361M
5610MHz	Pass	Inf	82.32M	77.481M	82.44M	77.361M	82.56M	77.361M	82.2M	77.361M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.575M	73.238M	76.05M	73.313M	76.2M	73.238M	76.125M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4M	4.458M	4.1M	4.318M	3.96M	4.238M	3.94M	10.135M
5775MHz	Pass	500k	76.08M	77.721M	77.4M	77.361M	76.68M	77.601M	77.4M	77.721M
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.4M	78.041M	82.24M	77.961M	82.56M	77.961M	82.24M	77.961M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.4M	77.801M	82.4M	77.881M	82.24M	77.961M	81.92M	77.961M
5570MHz	Pass	Inf	164.16M	154.723M	165.12M	154.963M	163.92M	154.963M	164.64M	154.723M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_4TX

EBW

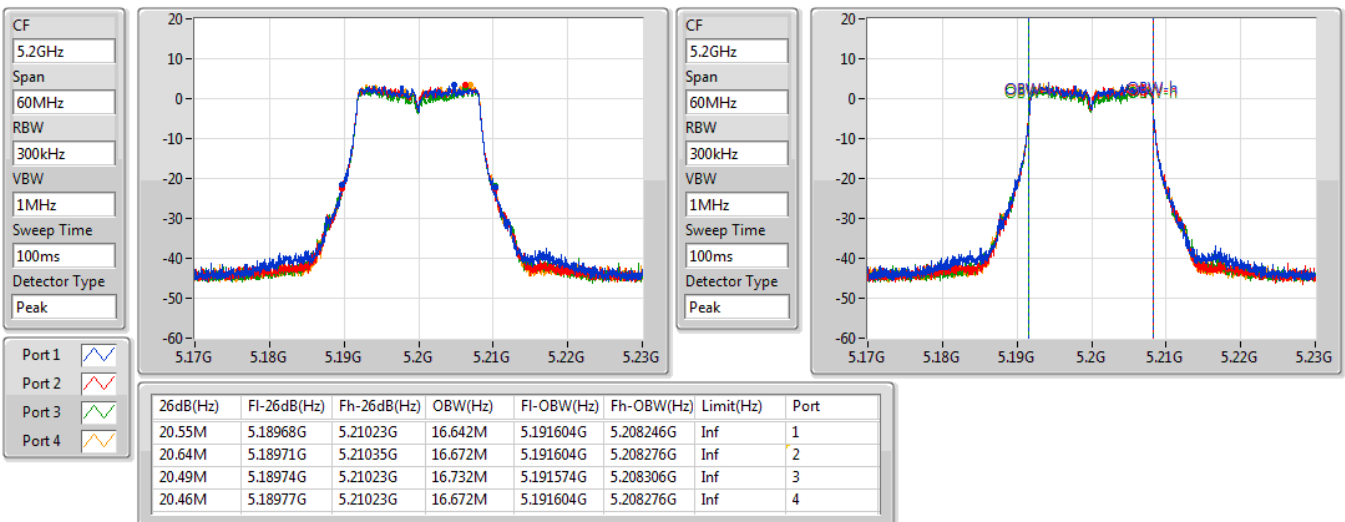
5180MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

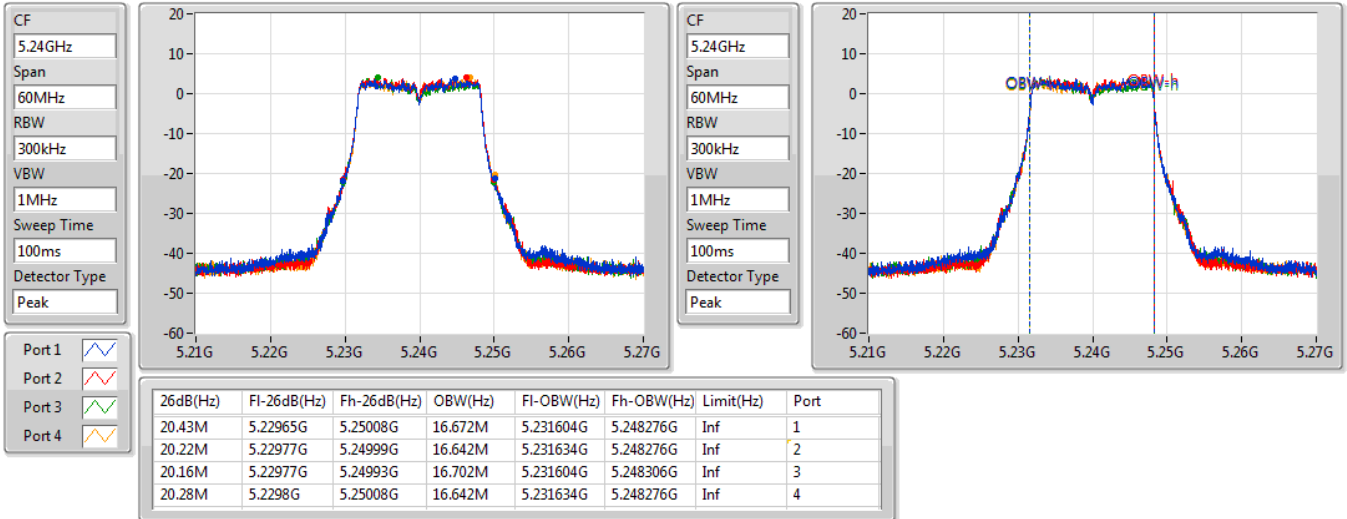
5200MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

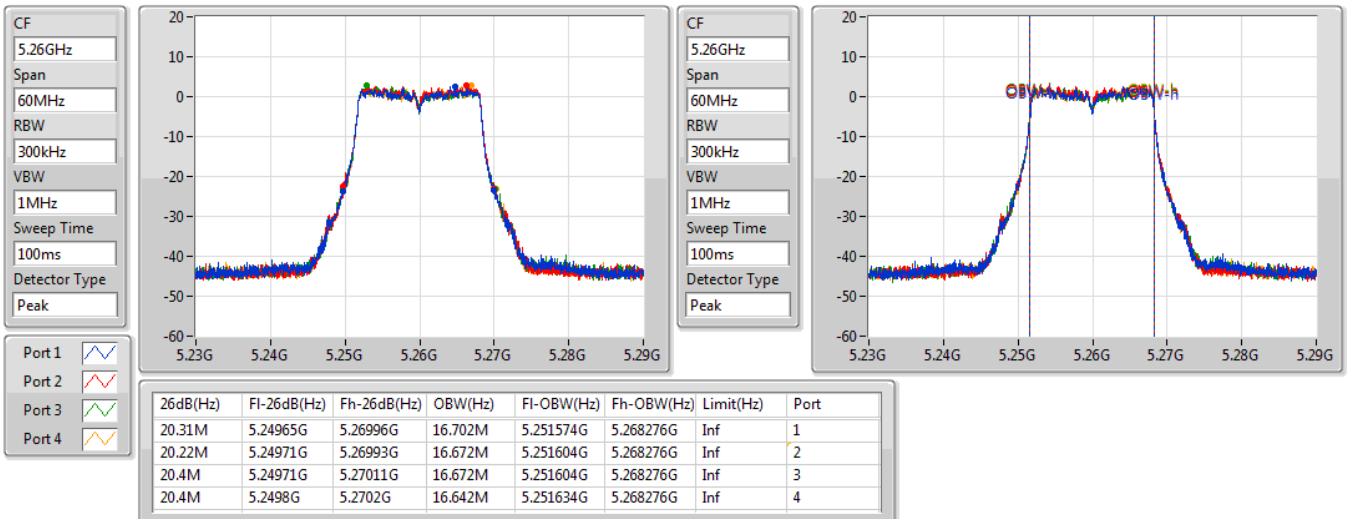
5240MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

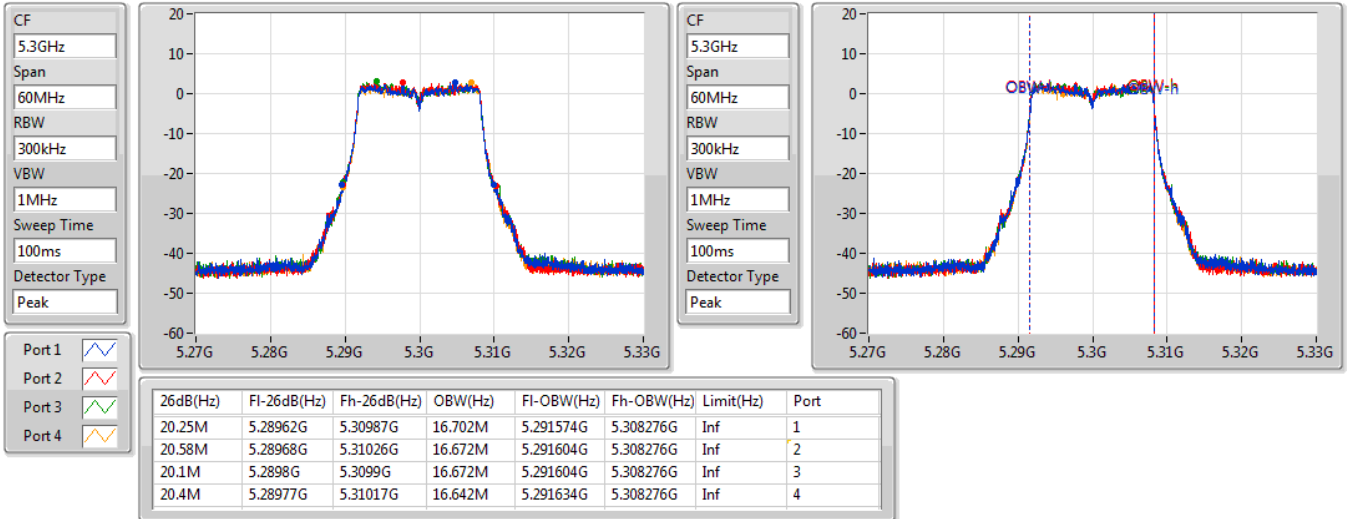
5260MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

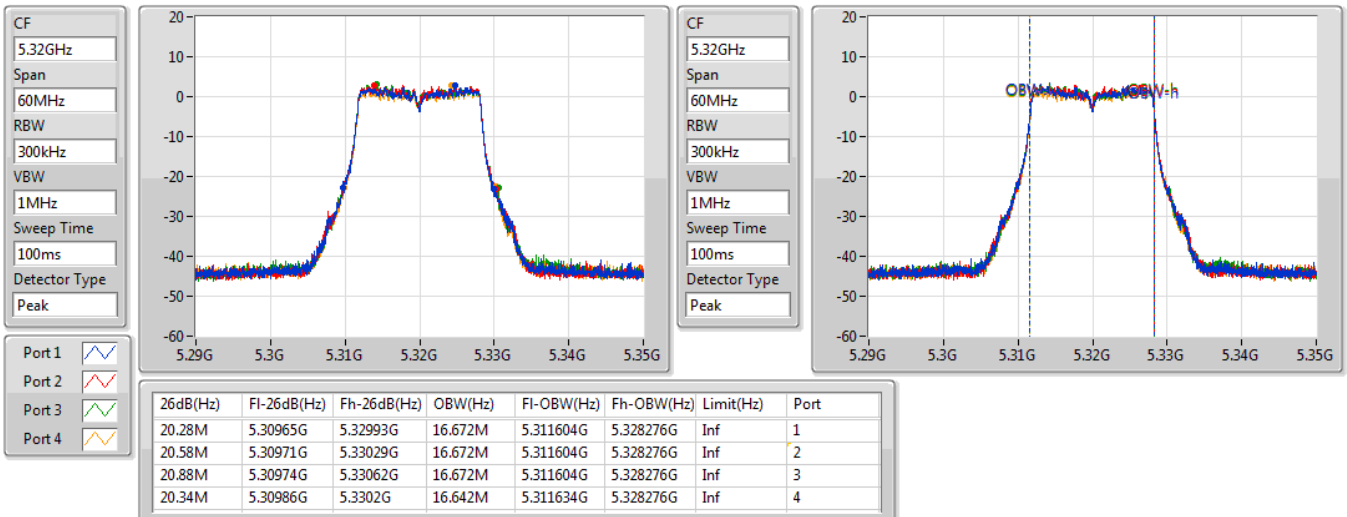
5300MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

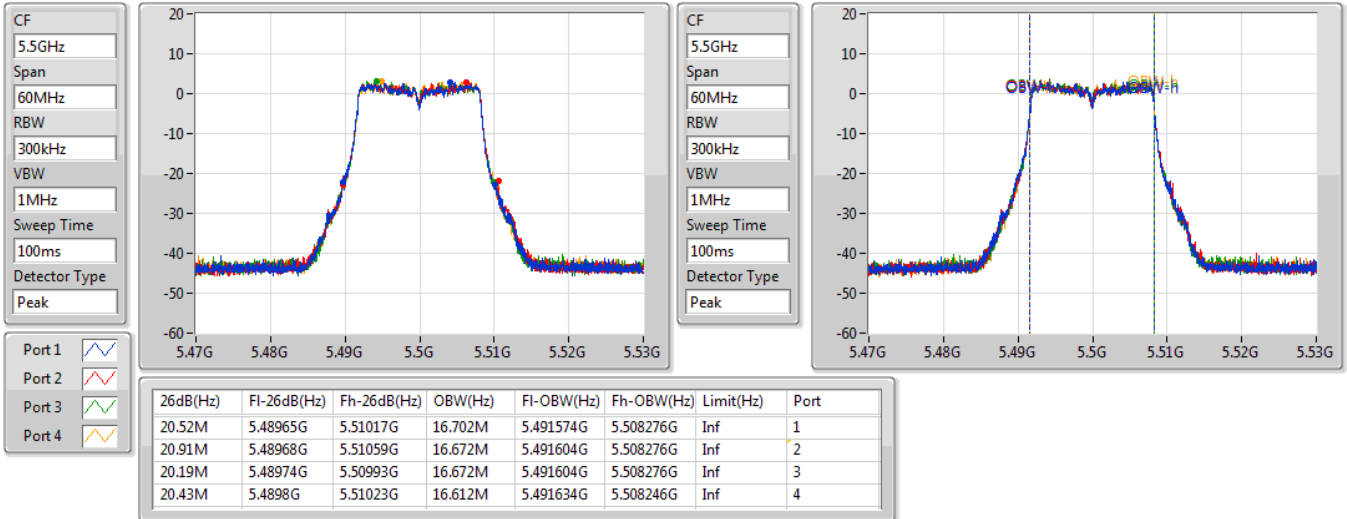
5320MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

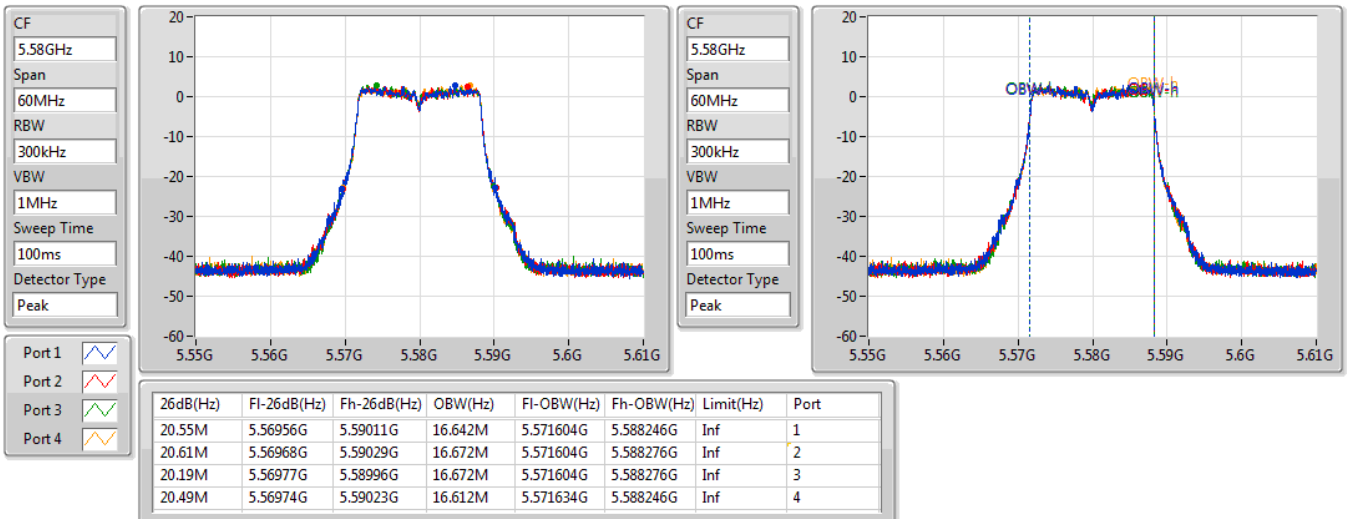
5500MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

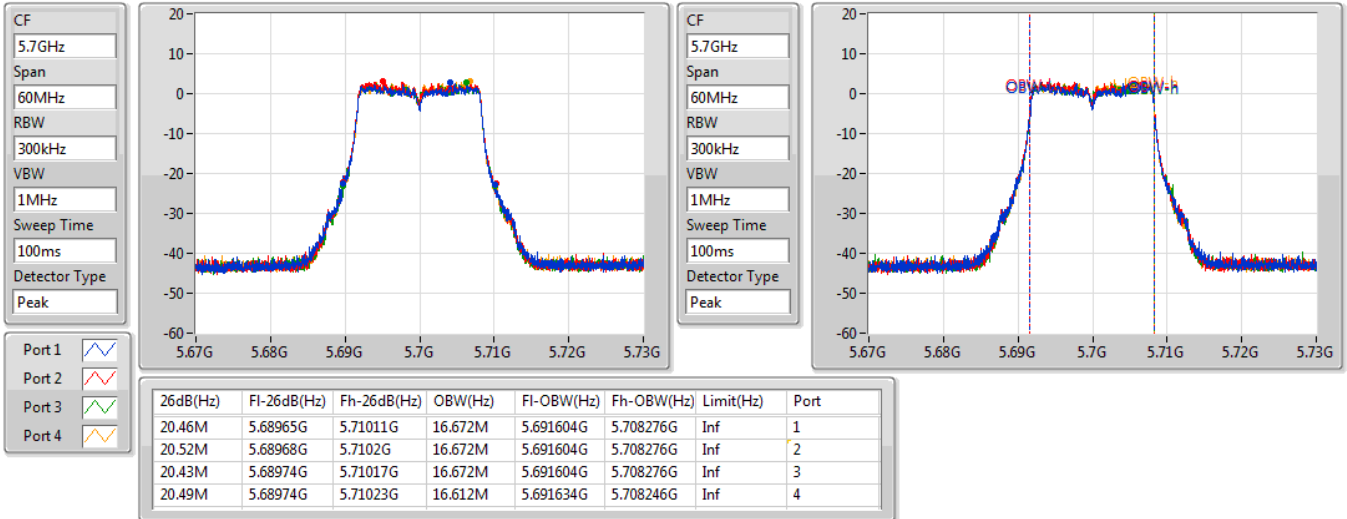
5580MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

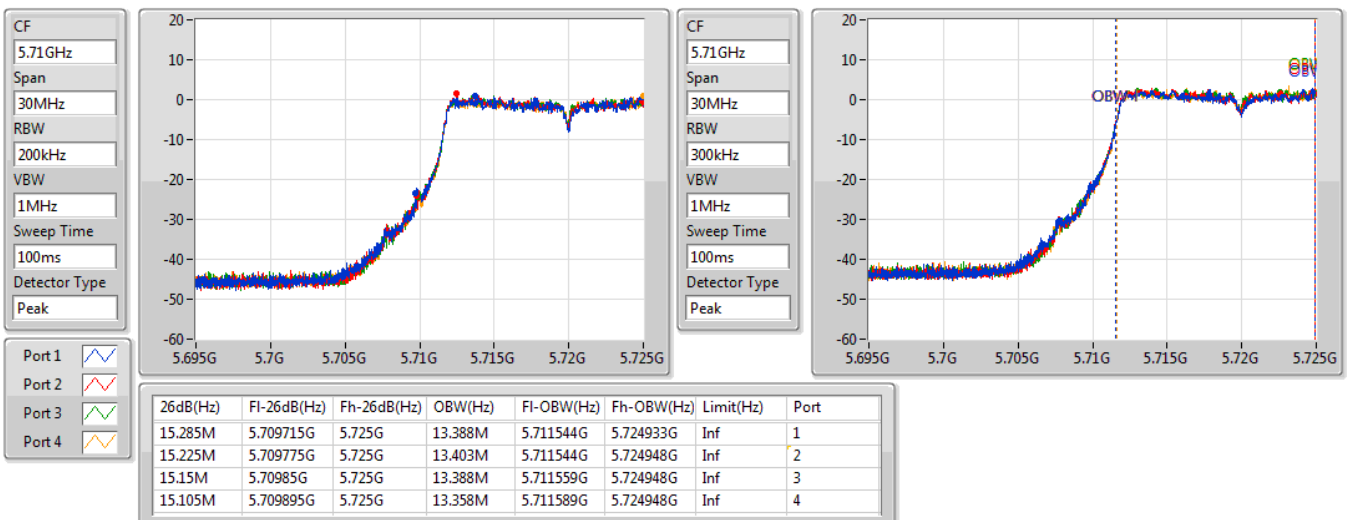
5700MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

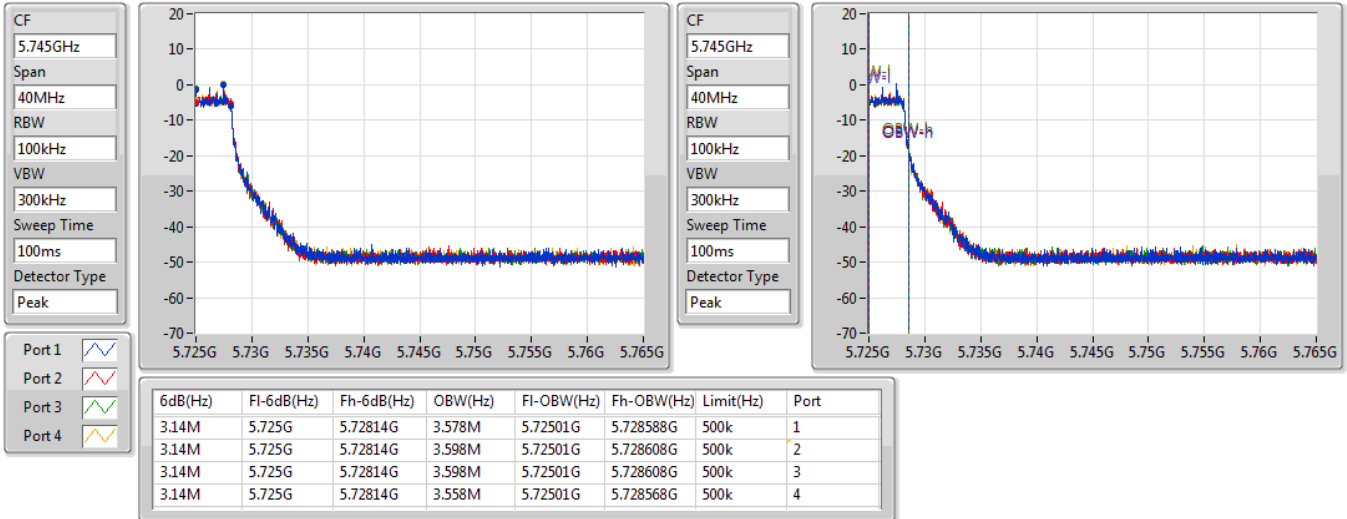
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_4TX

EBW

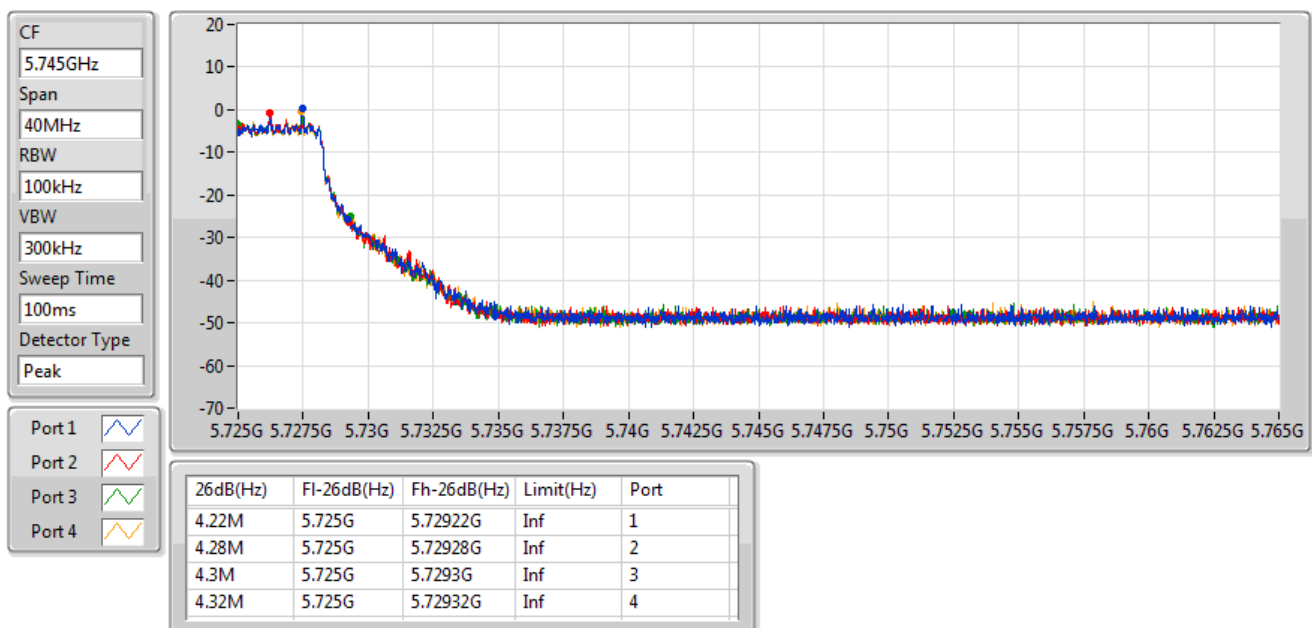
5720MHz Straddle 5.725-5.85GHz



802.11a_Nss1,(6Mbps)_4TX

EBW

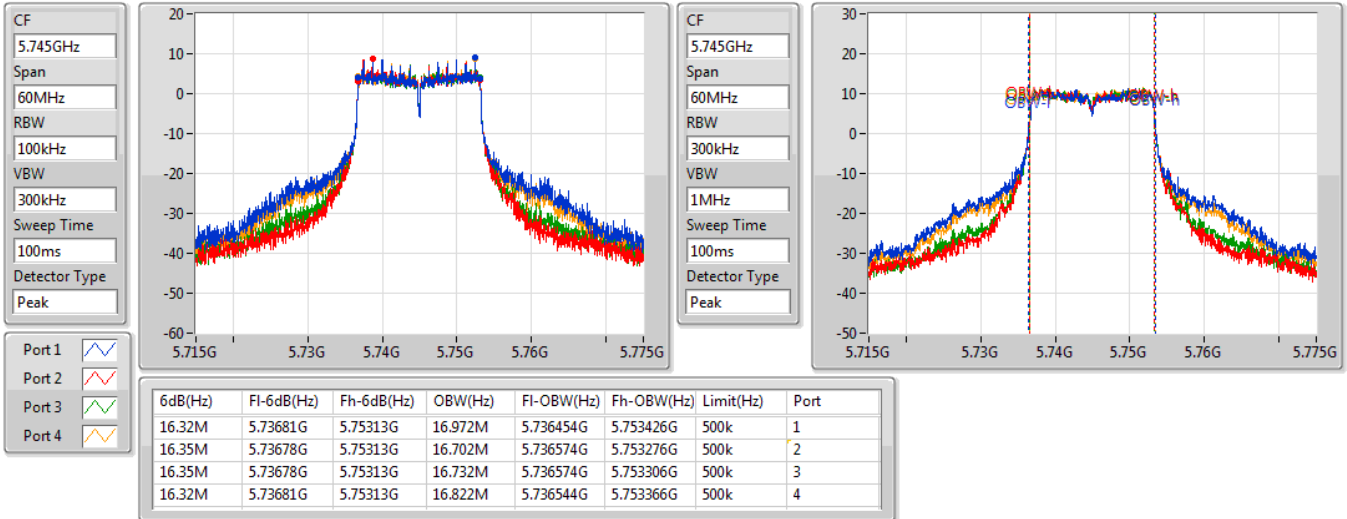
5720MHz Straddle 5.725-5.85GHz



802.11a_Nss1,(6Mbps)_4TX

EBW

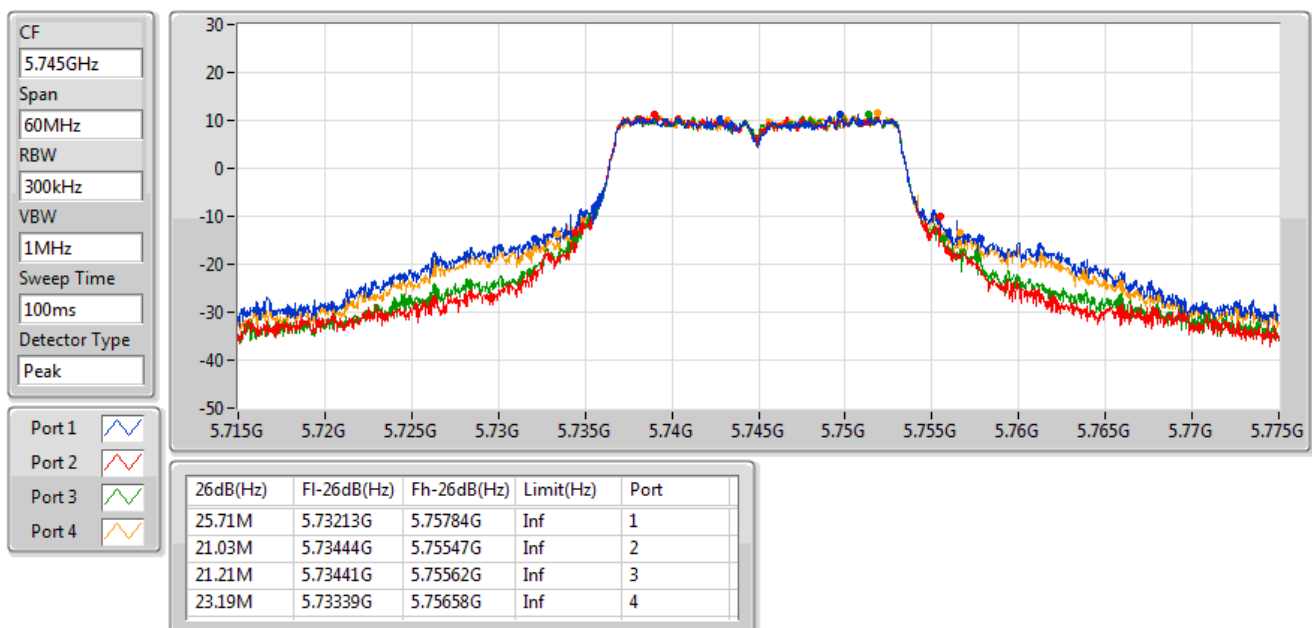
5745MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

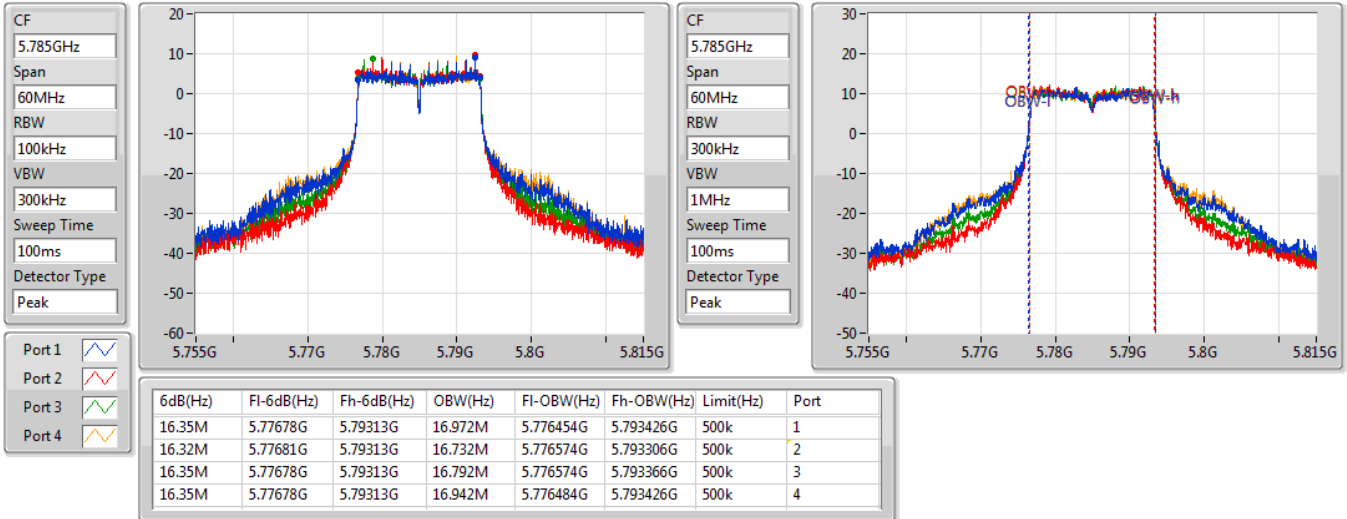
5745MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

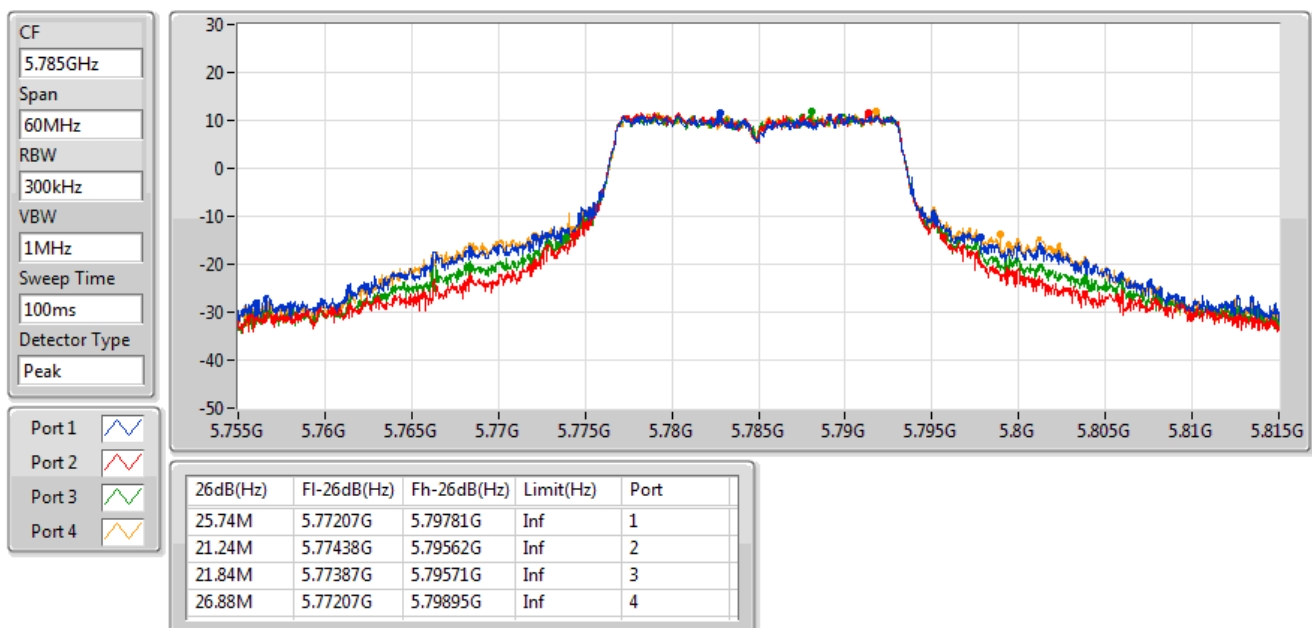
5785MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

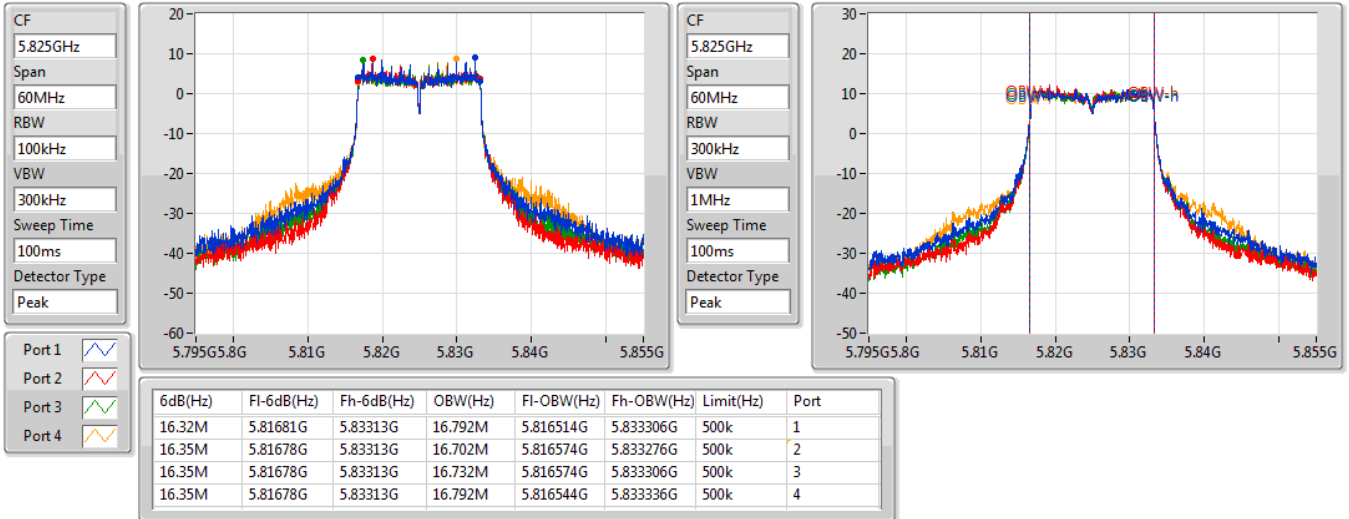
5785MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

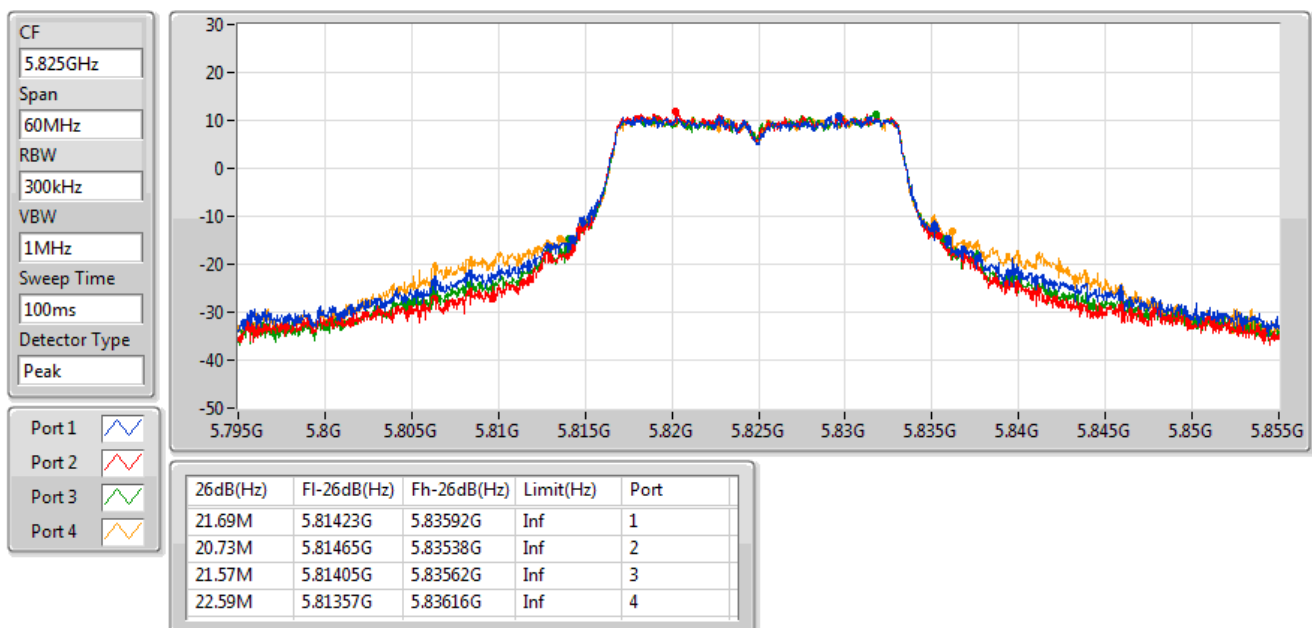
5825MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

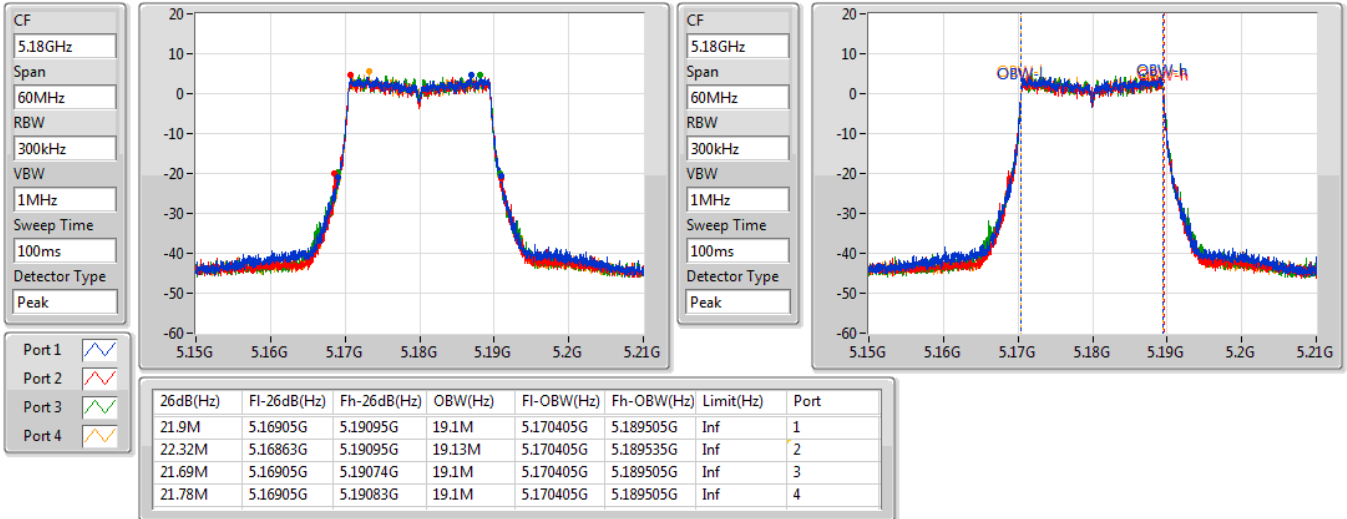
5825MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

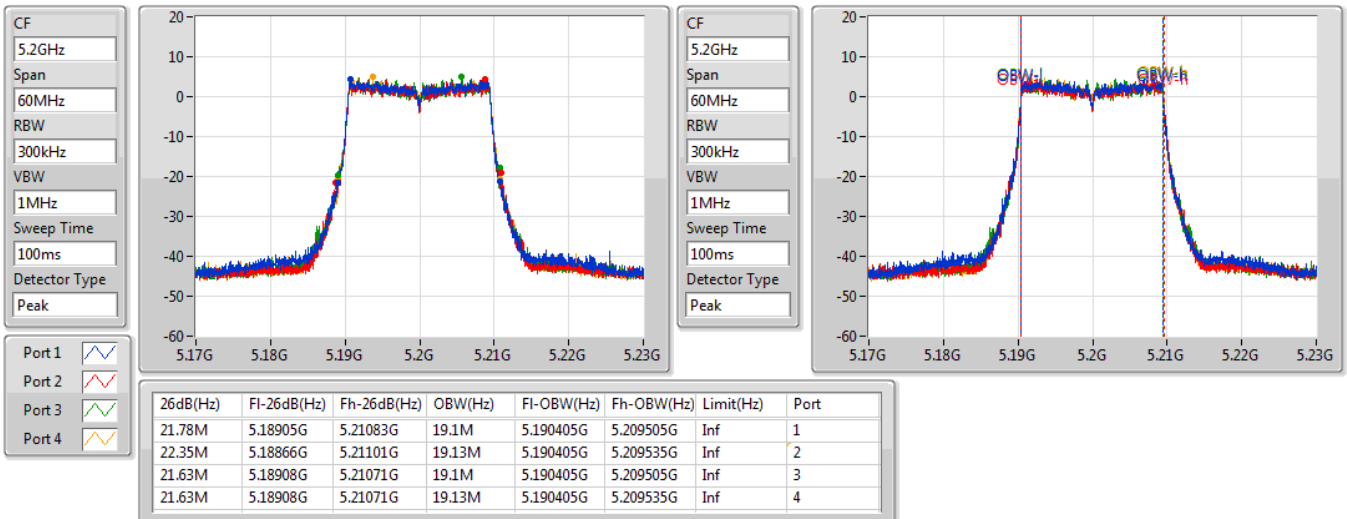
5180MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

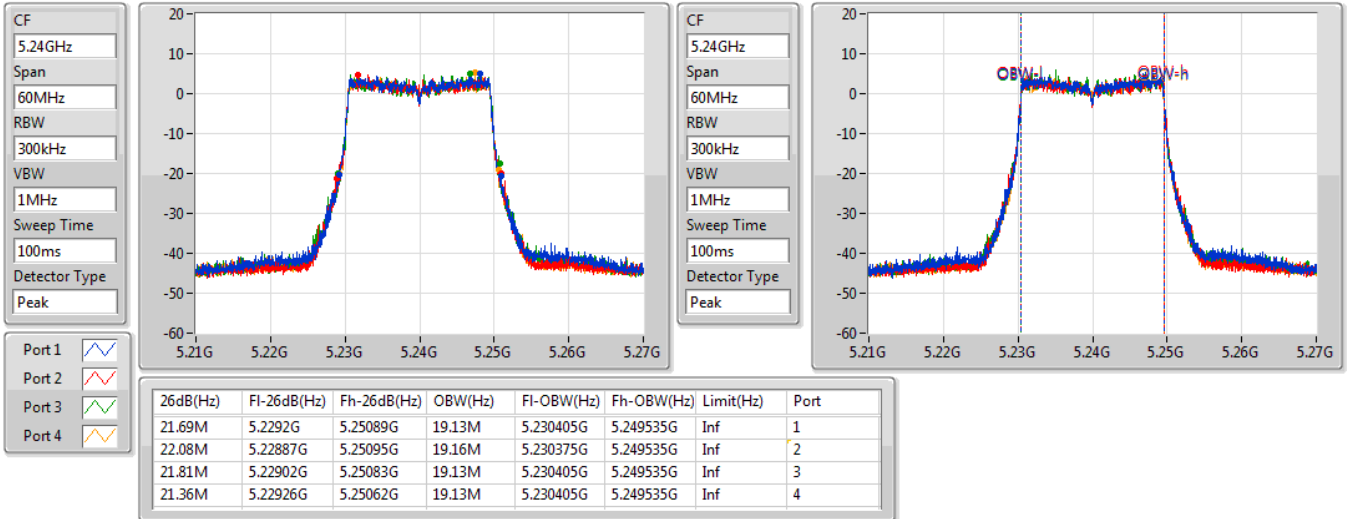
5200MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

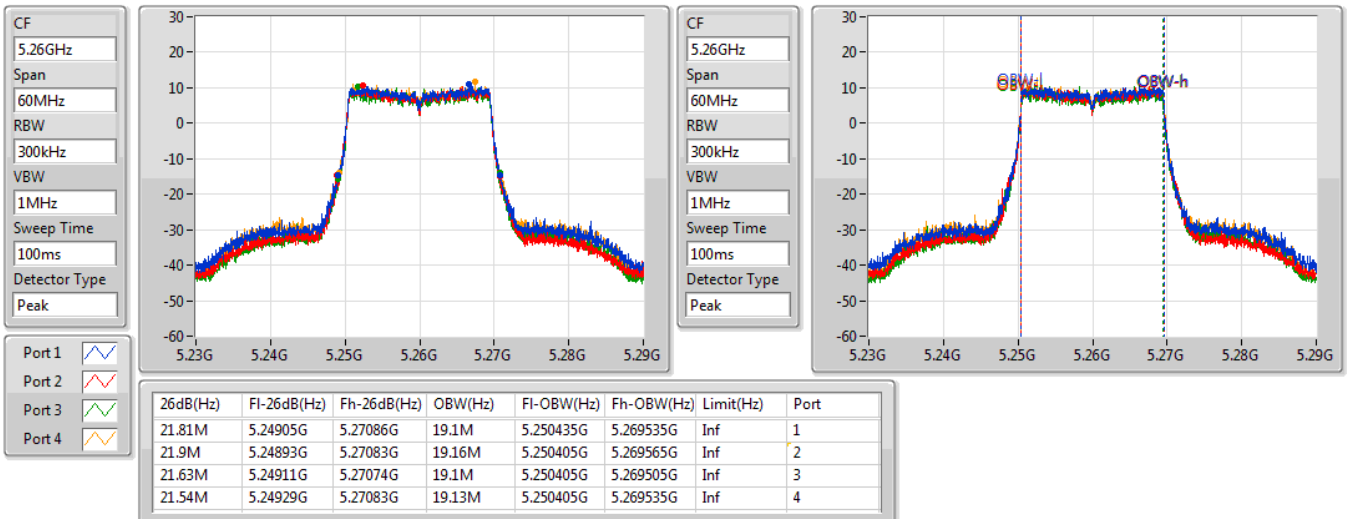
5240MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

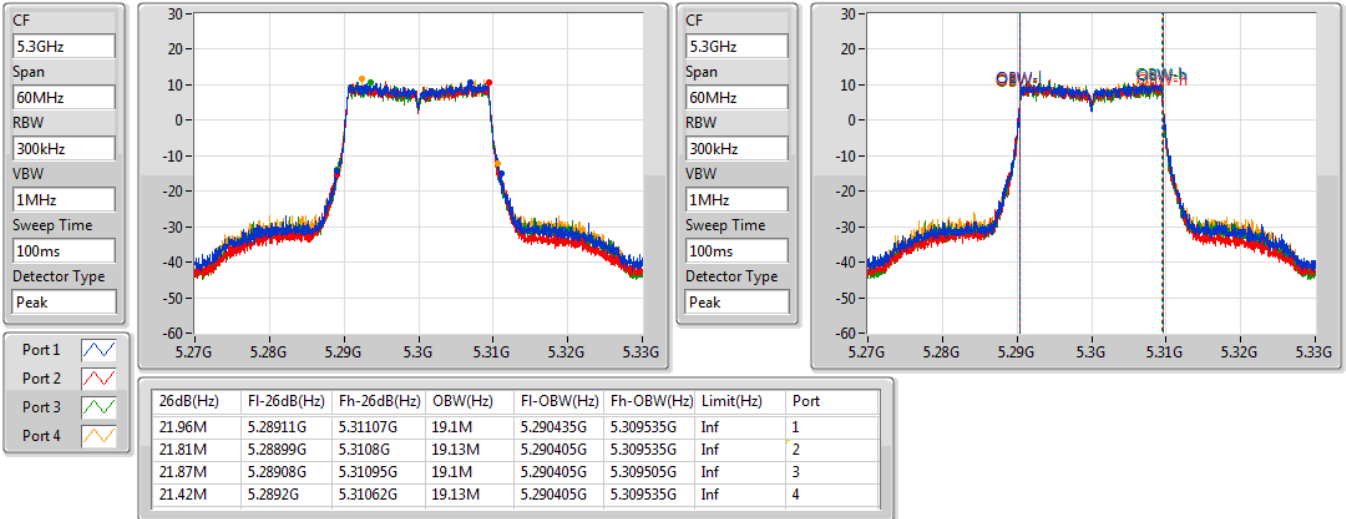
5260MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

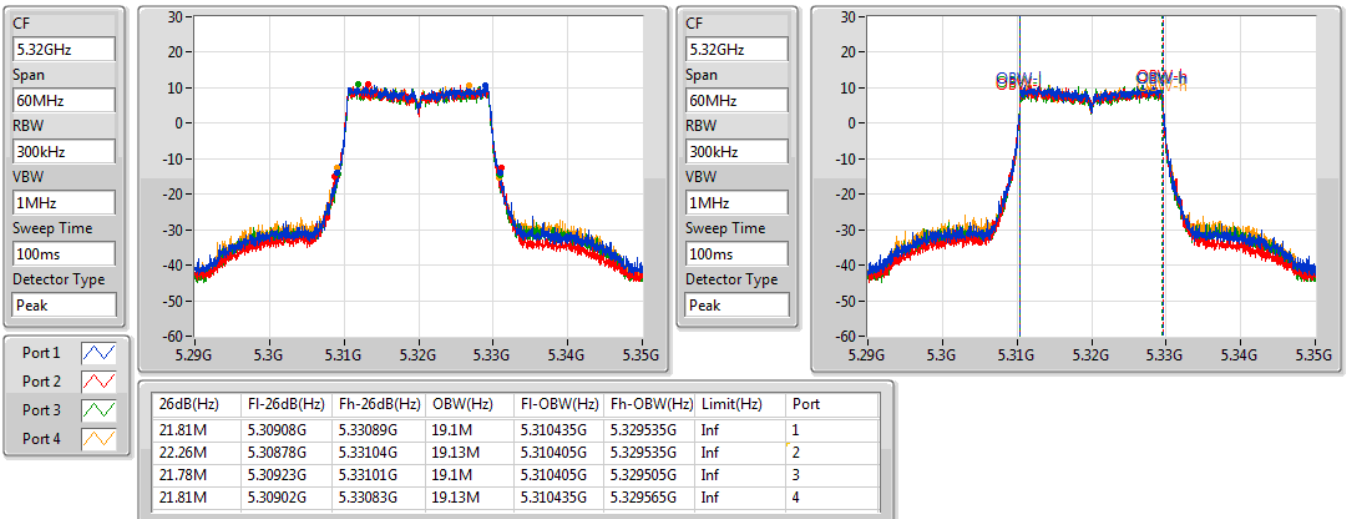
5300MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

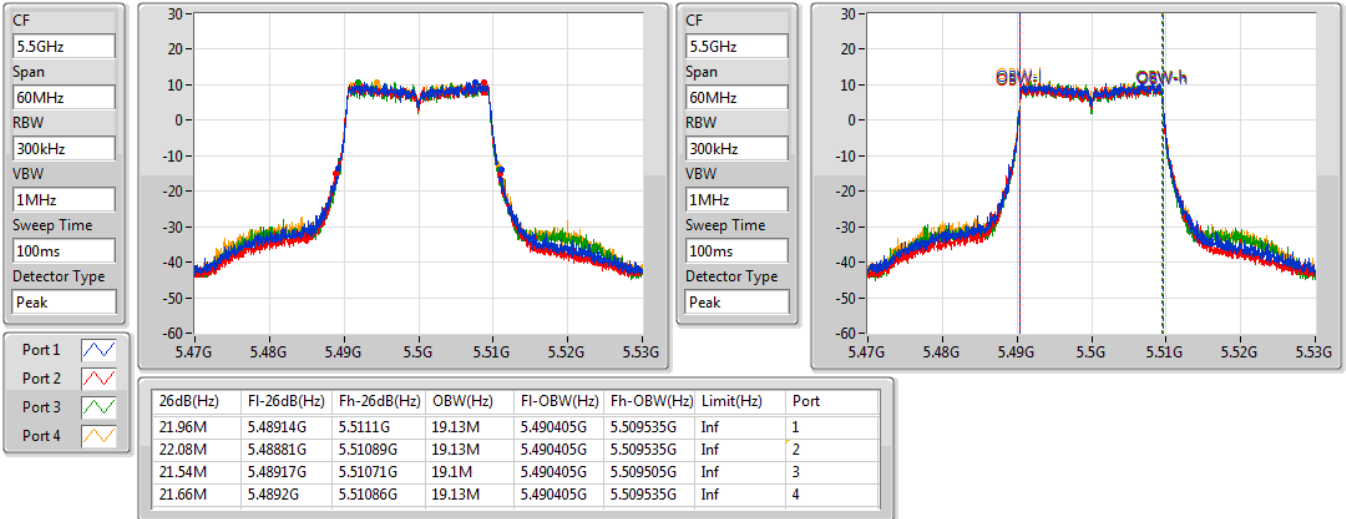
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802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

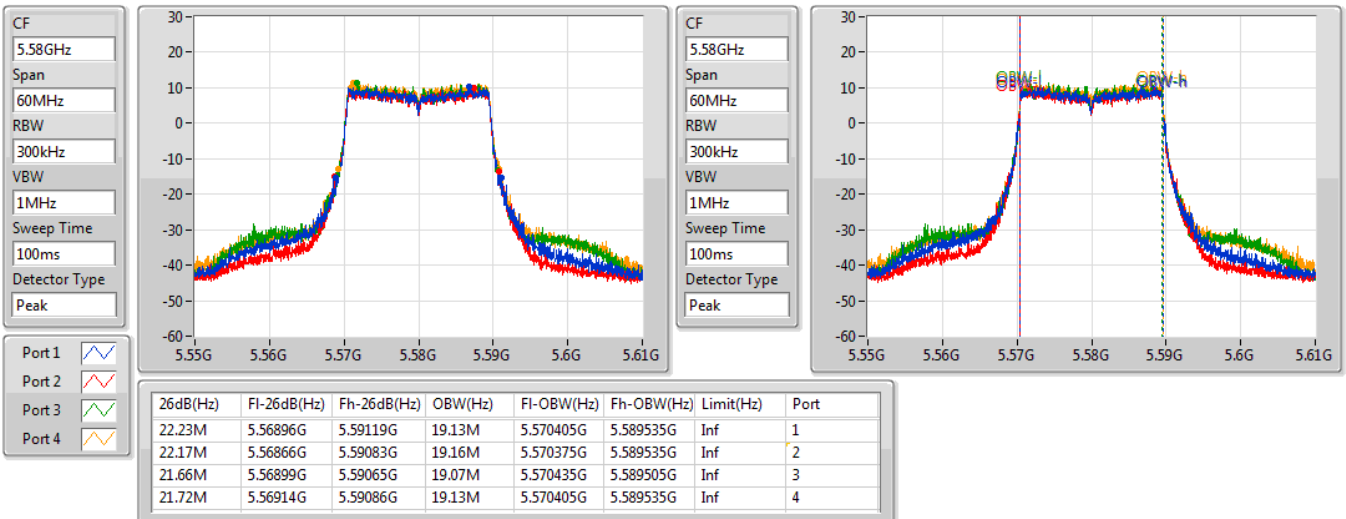
5500MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

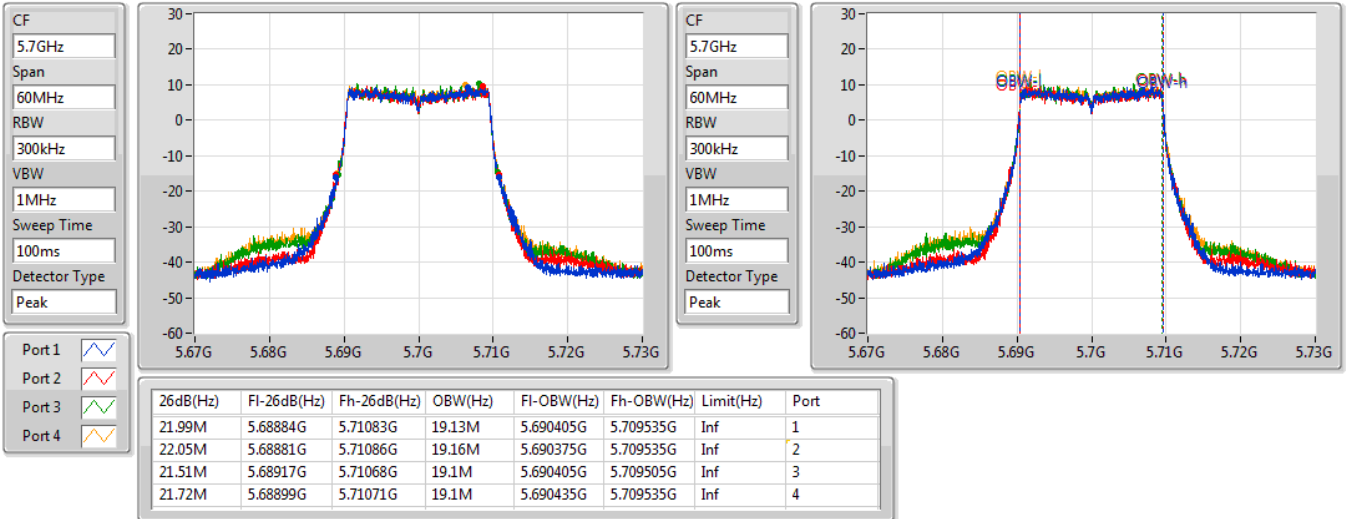
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802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

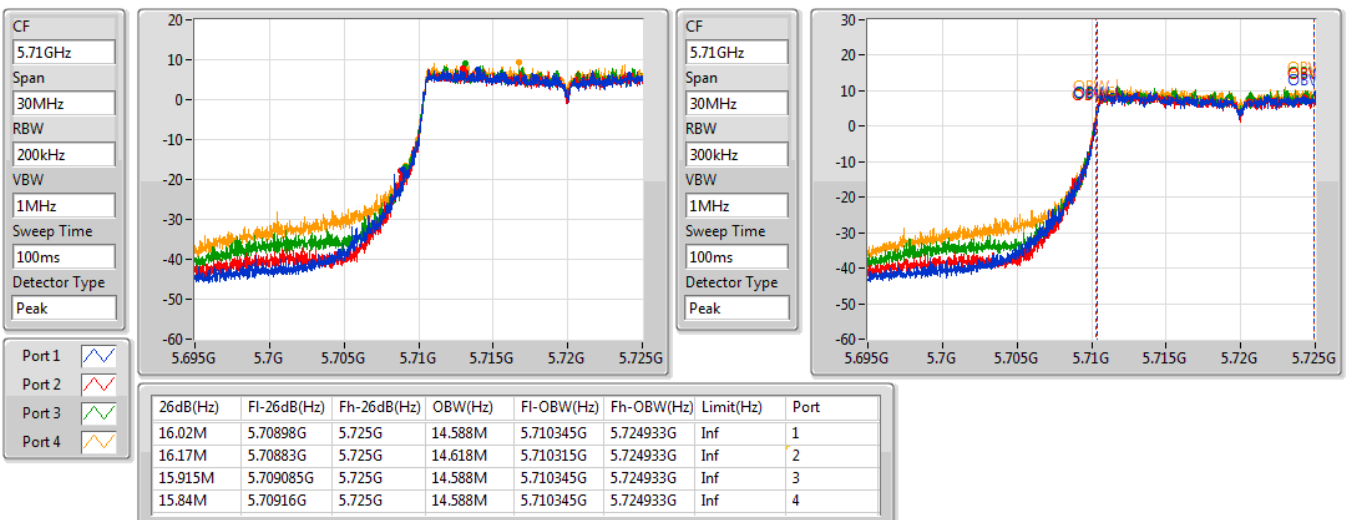
5700MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

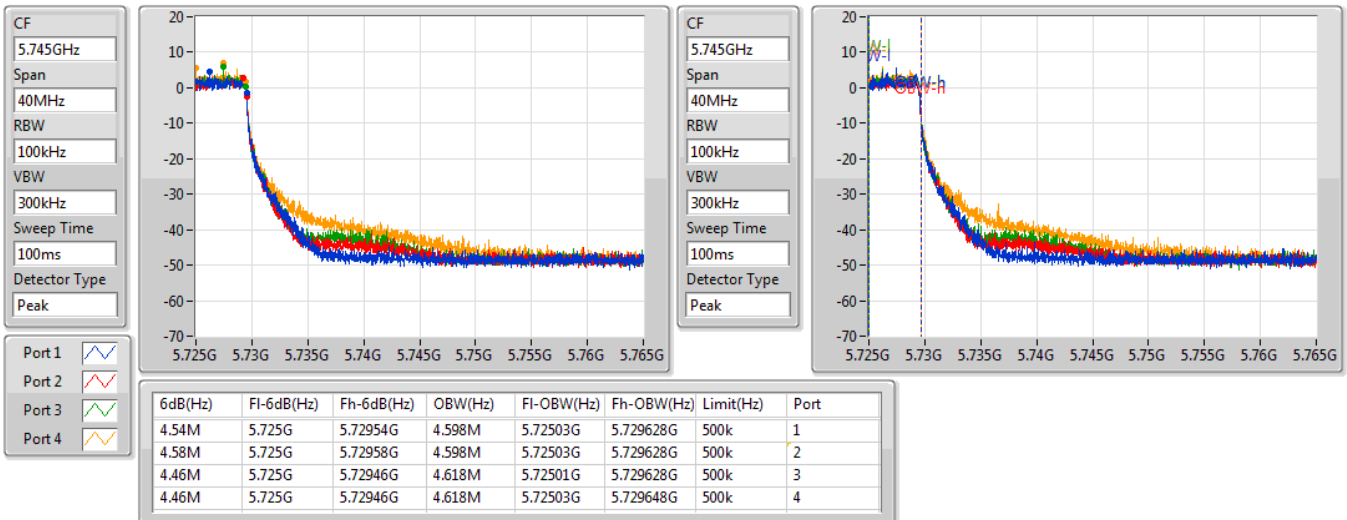
5720MHz Straddle 5.47-5.725GHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

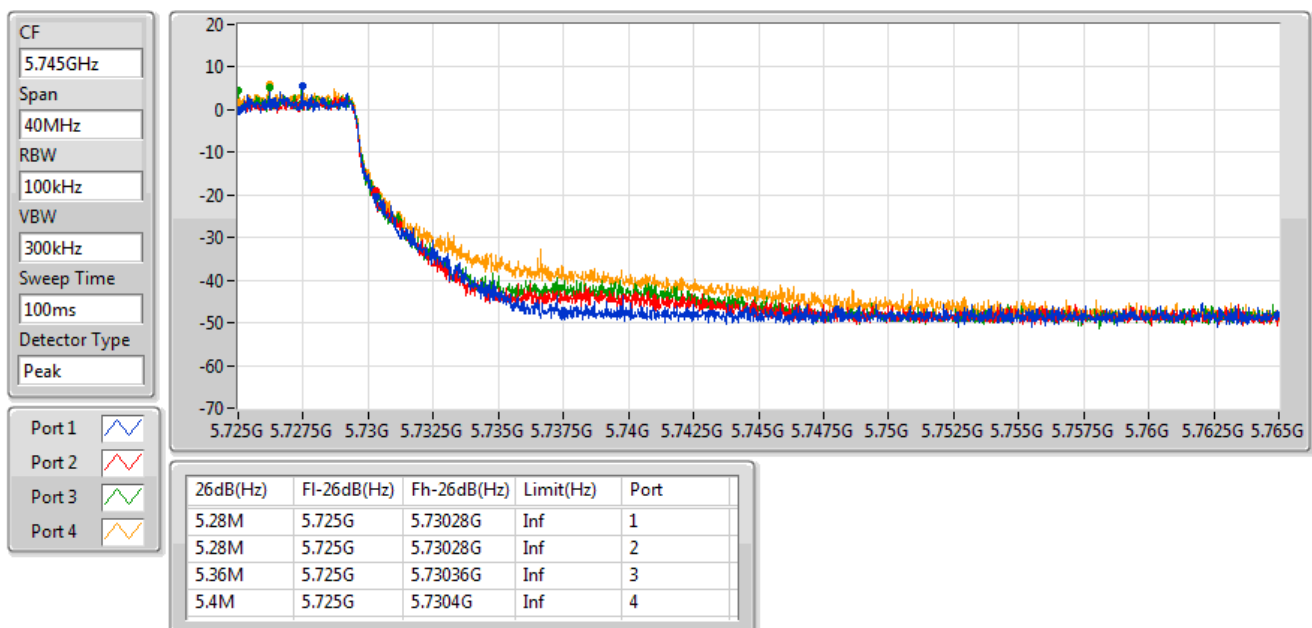
5720MHz Straddle 5.725-5.85GHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

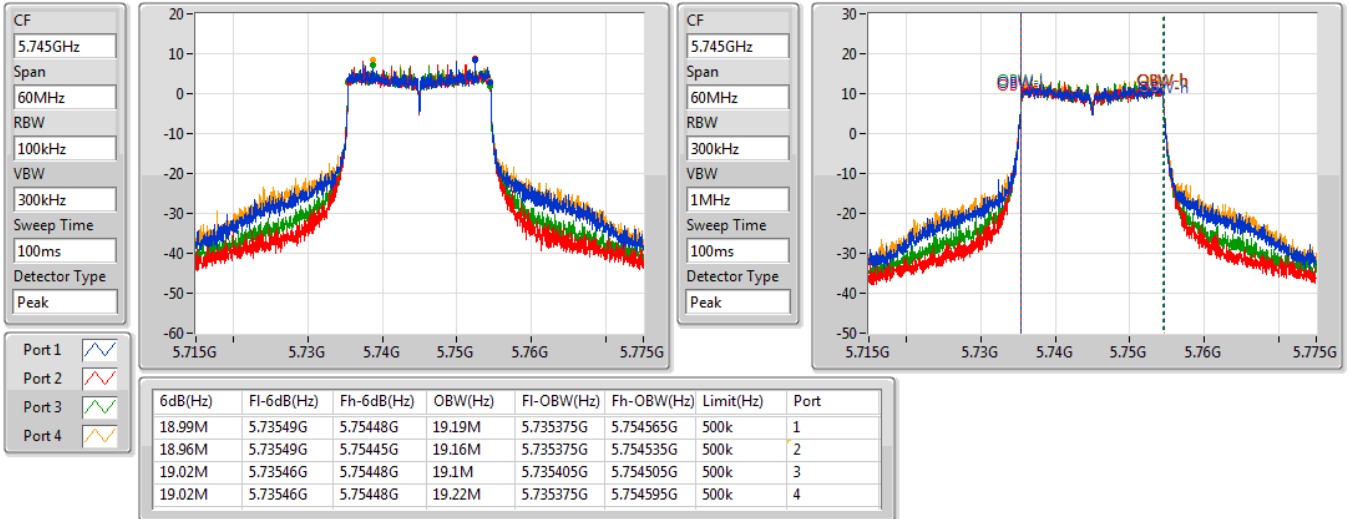
5720MHz Straddle 5.725-5.85GHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

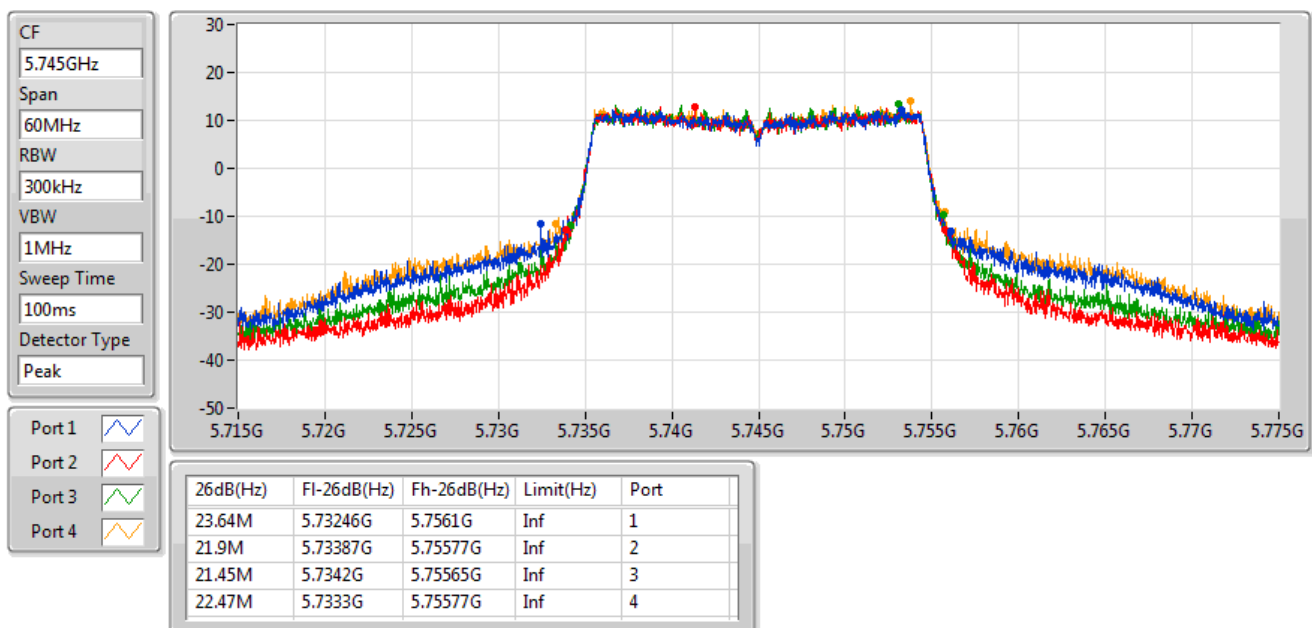
5745MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

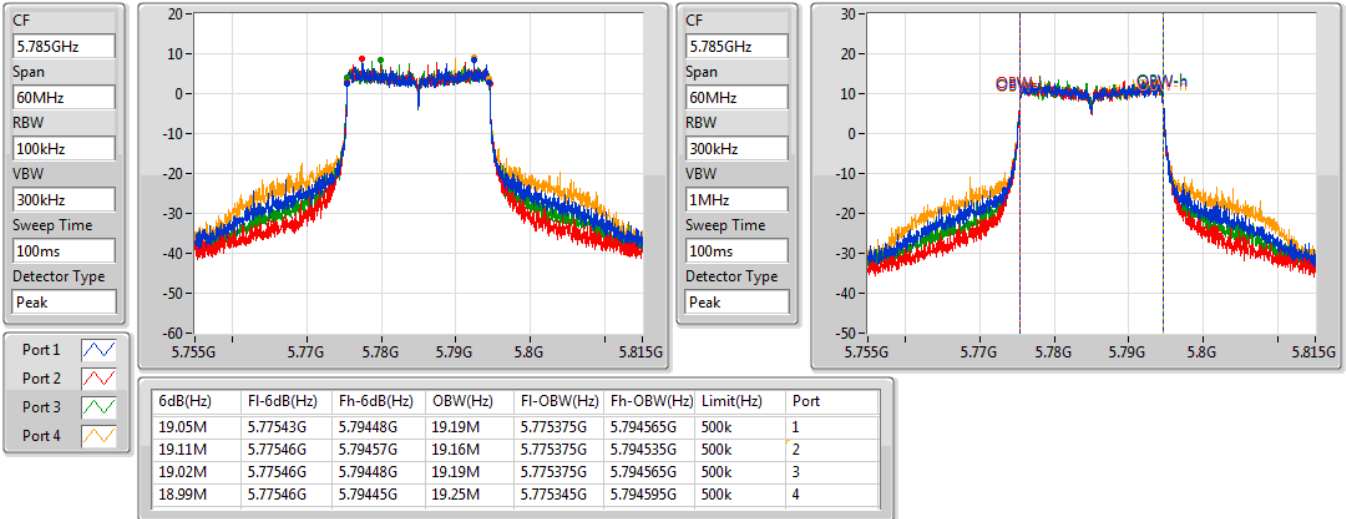
5745MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

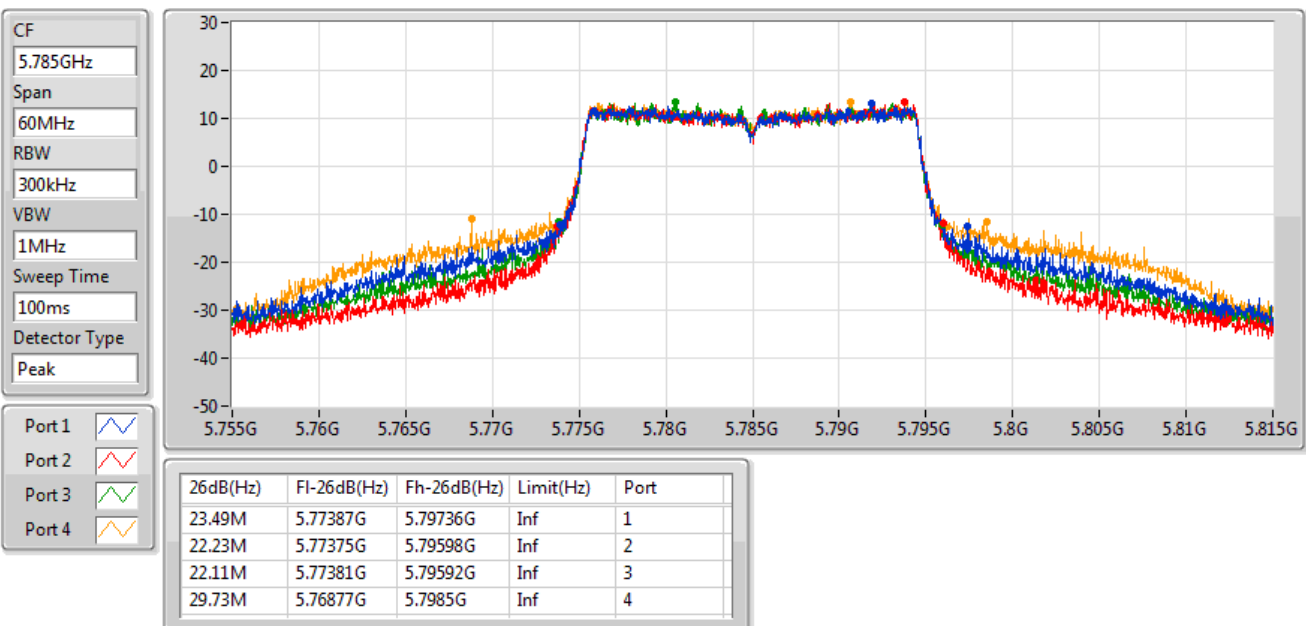
5785MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

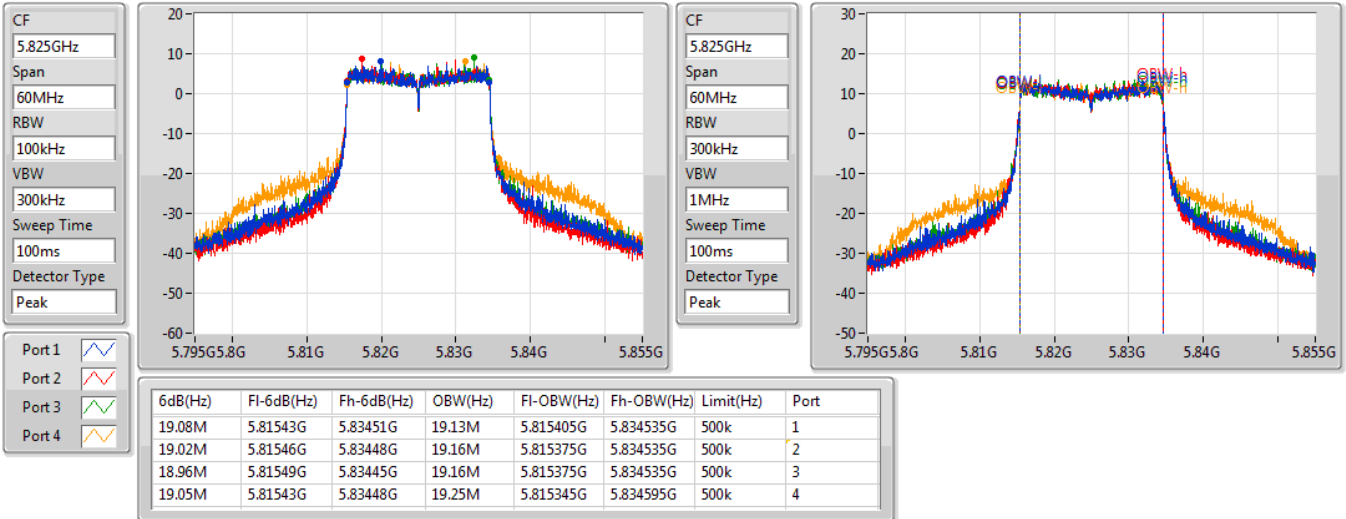
5785MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

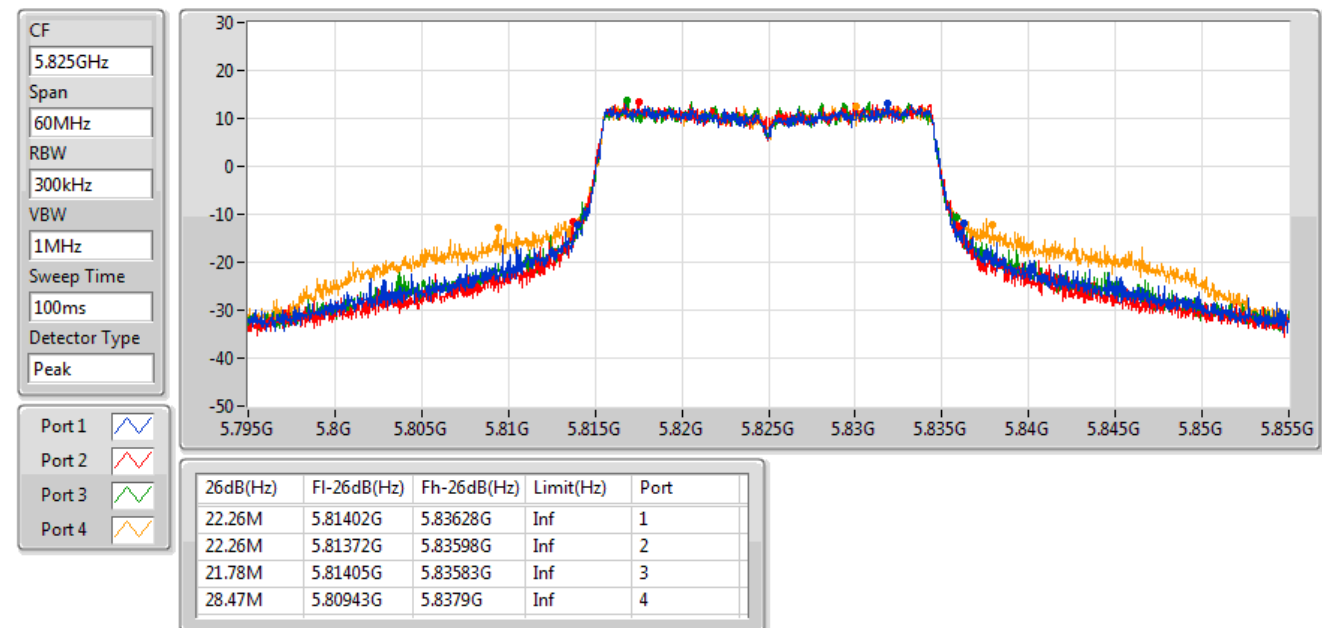
5825MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

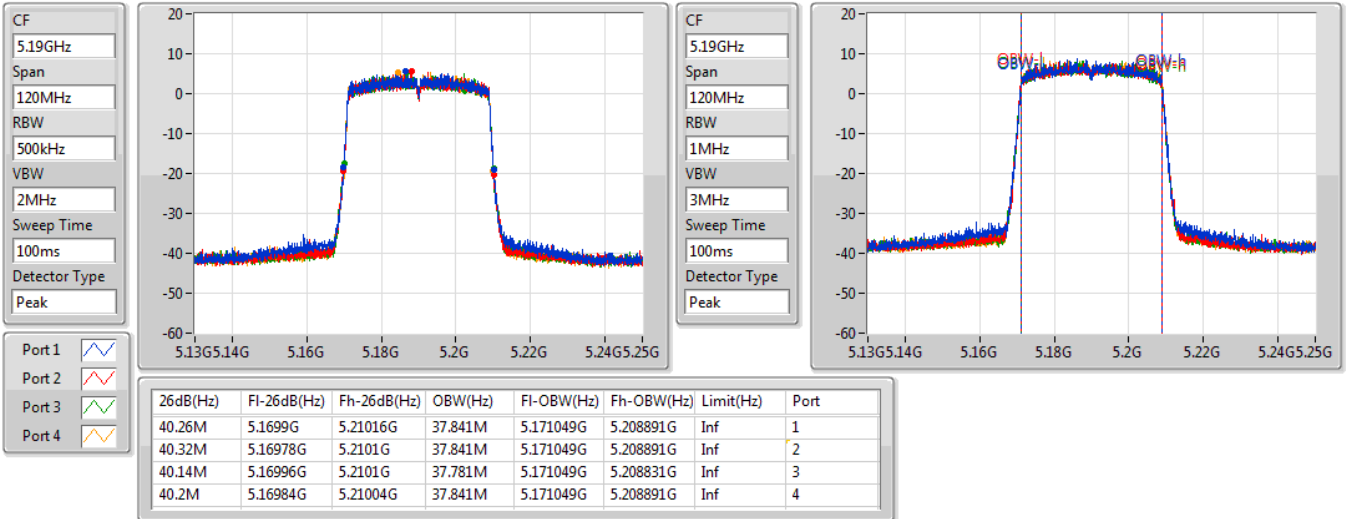
5825MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

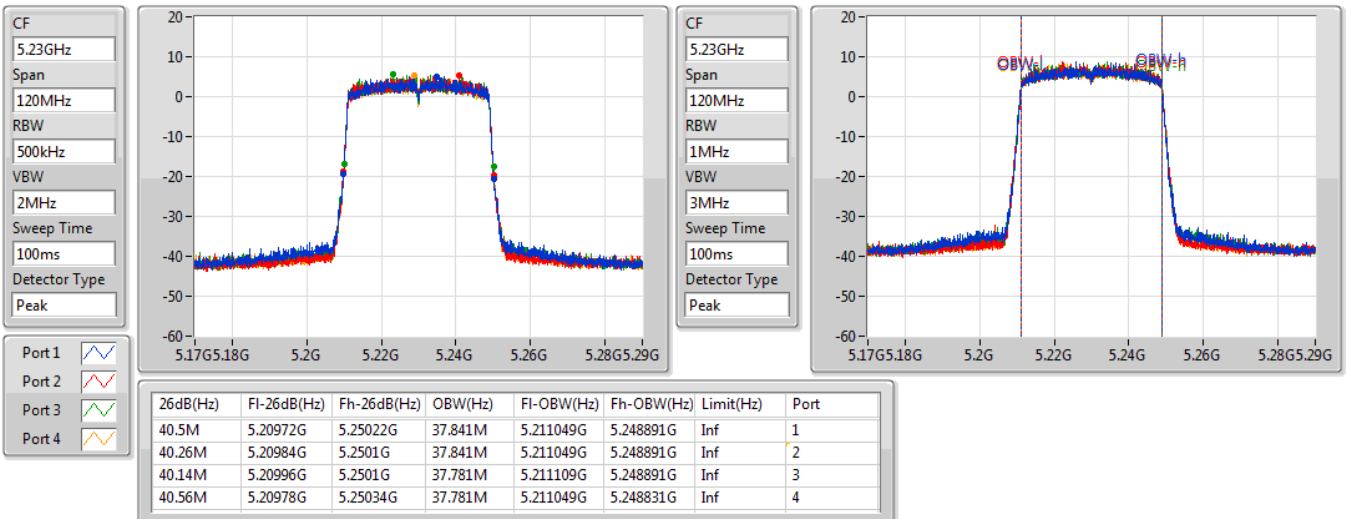
5190MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

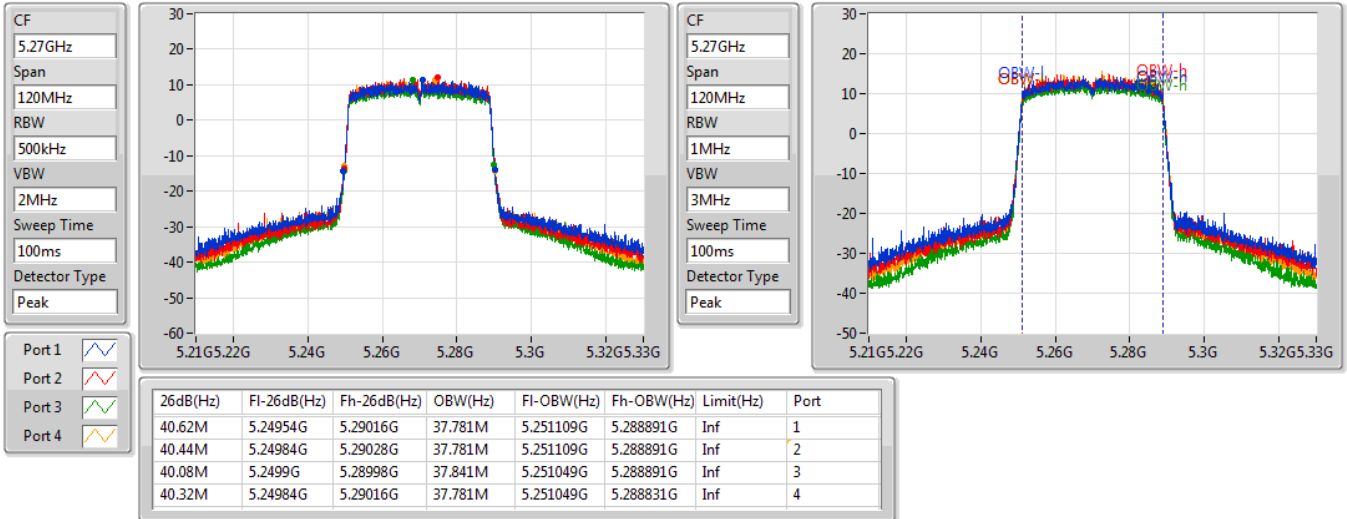
5230MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

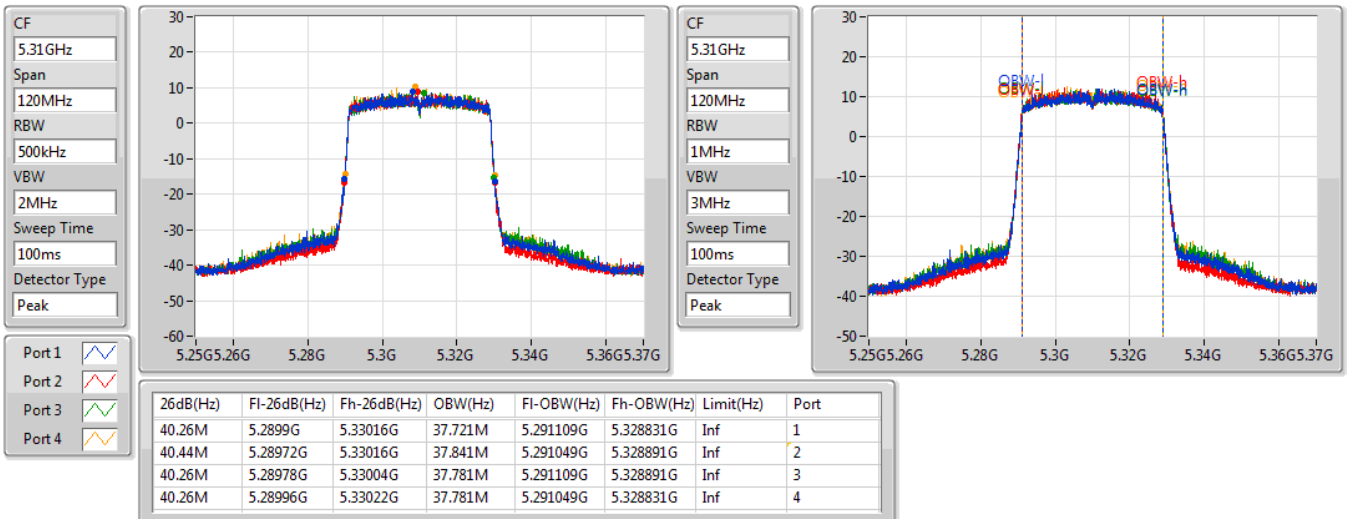
5270MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

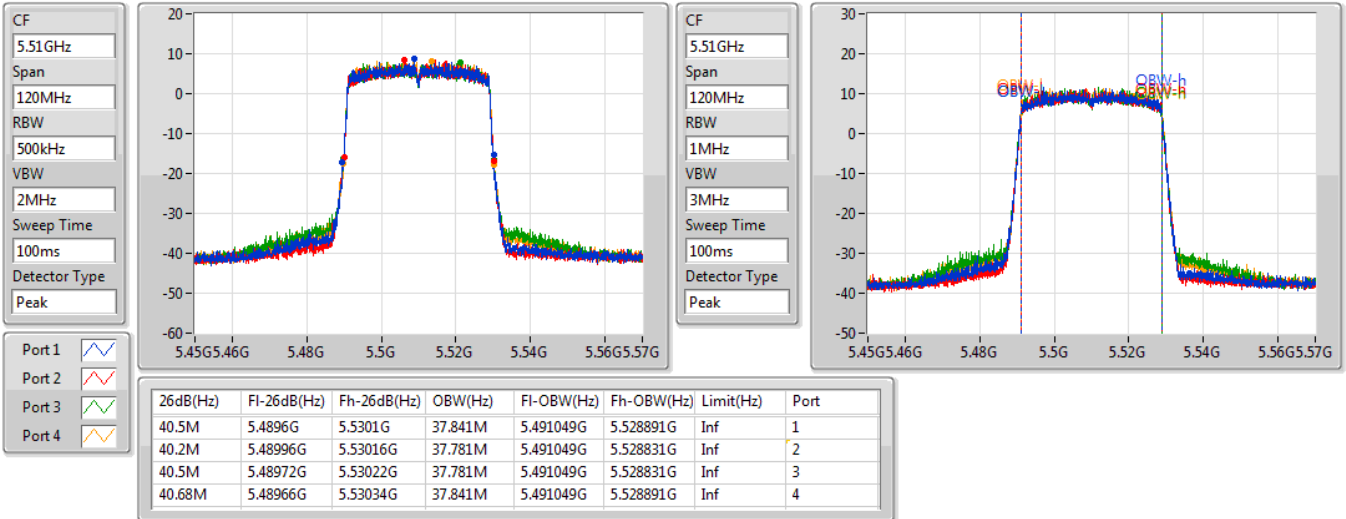
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802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

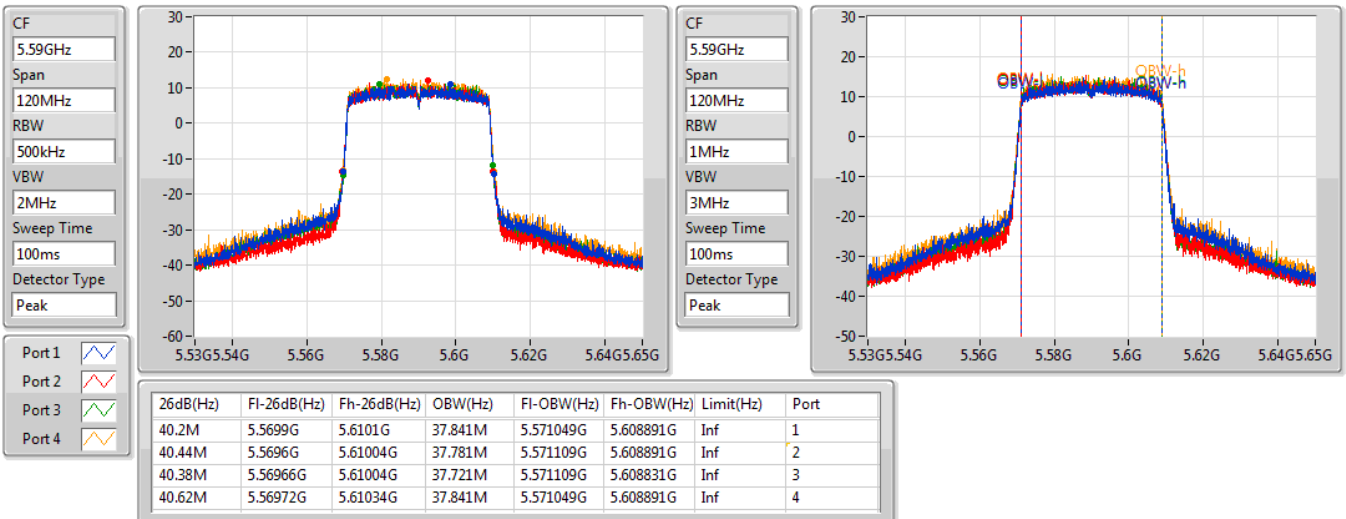
5510MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

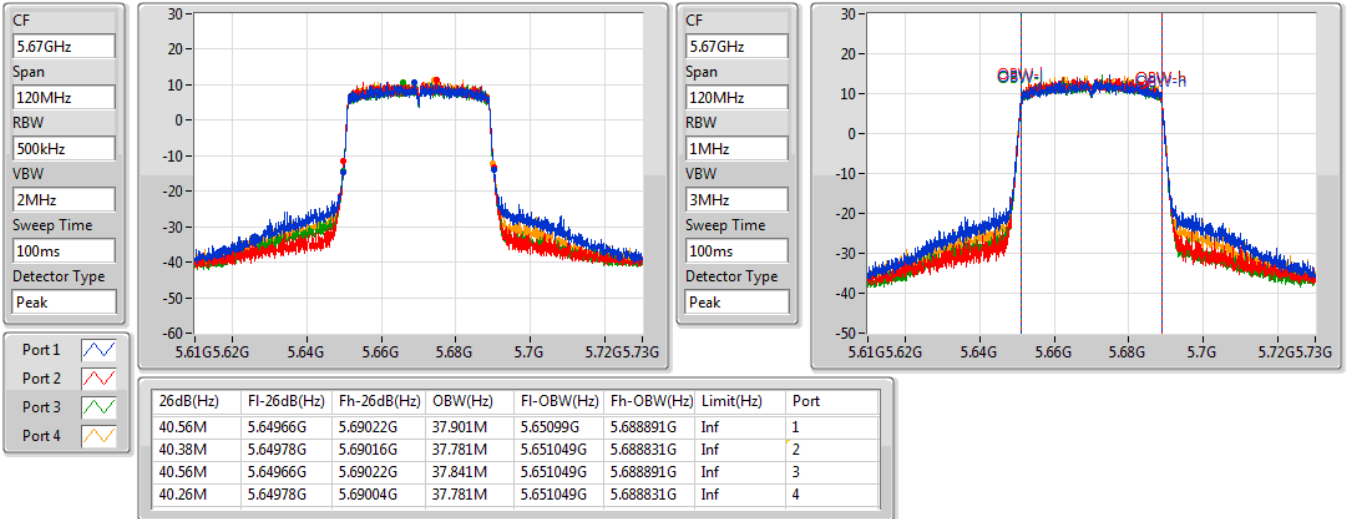
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802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

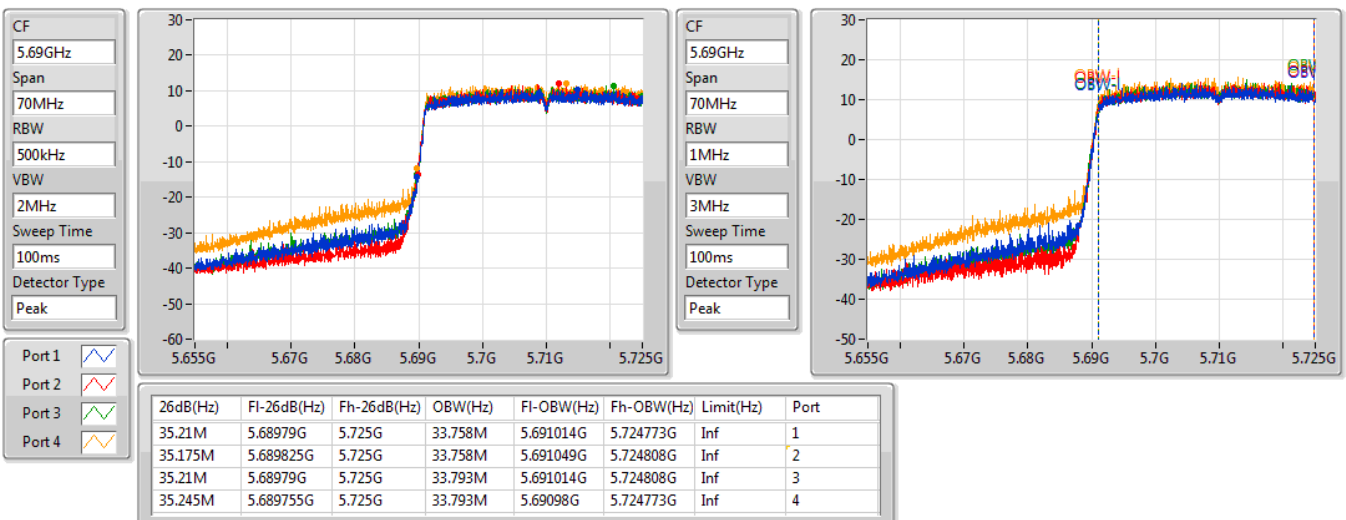
5670MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

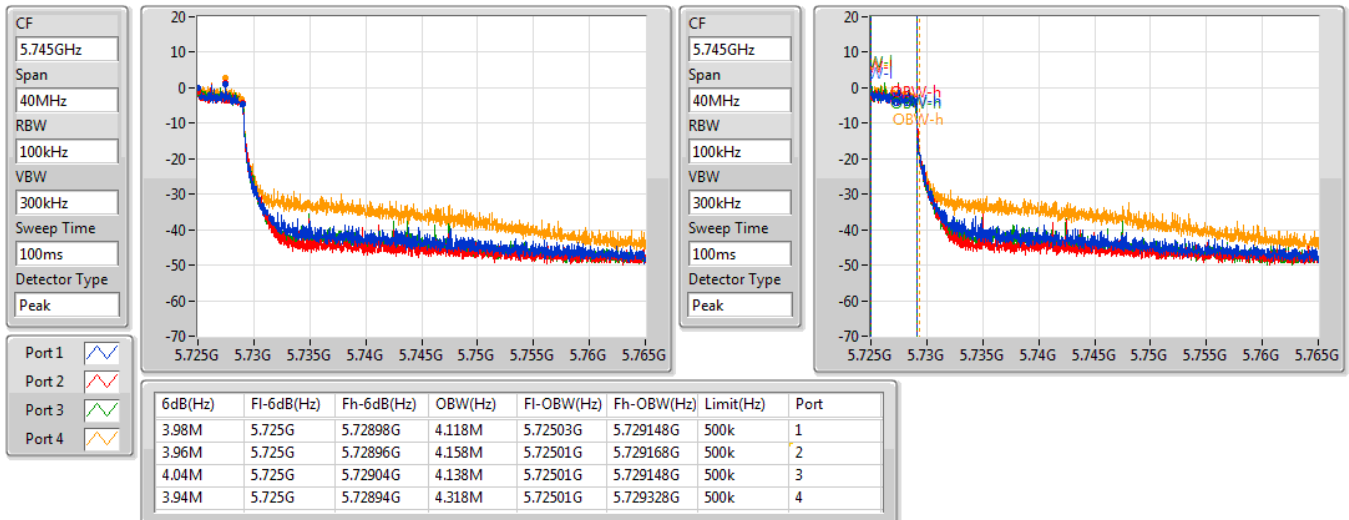
5710MHz Straddle 5.47-5.725GHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

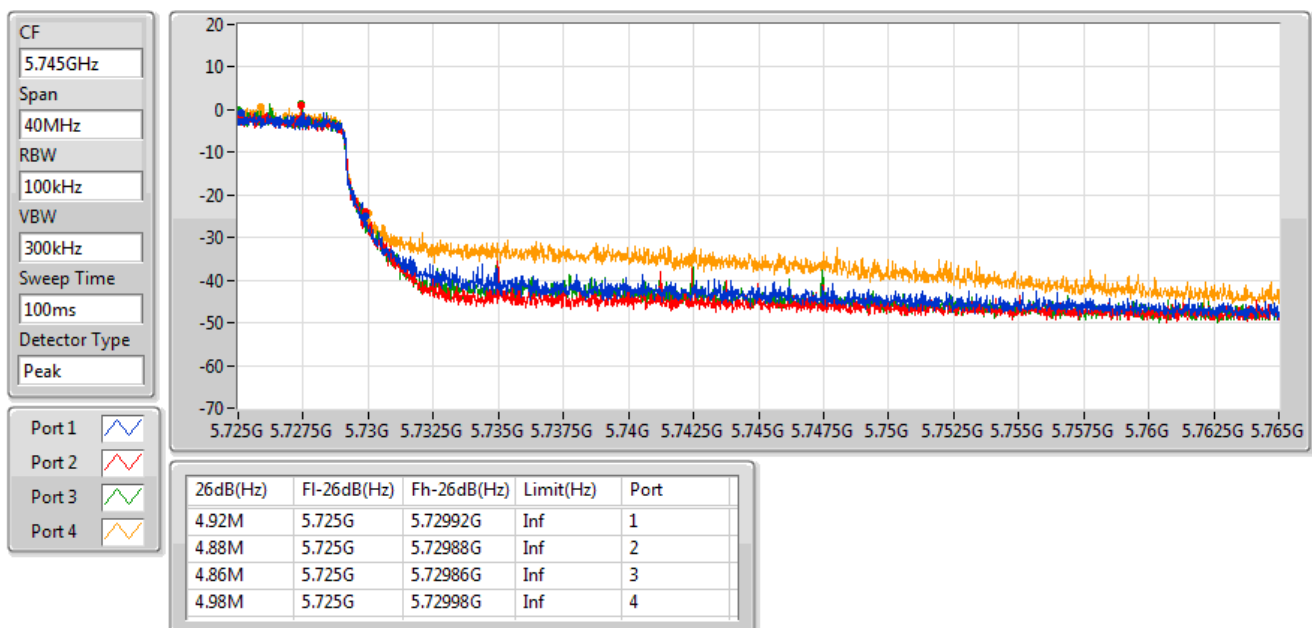
5710MHz Straddle 5.725-5.85GHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

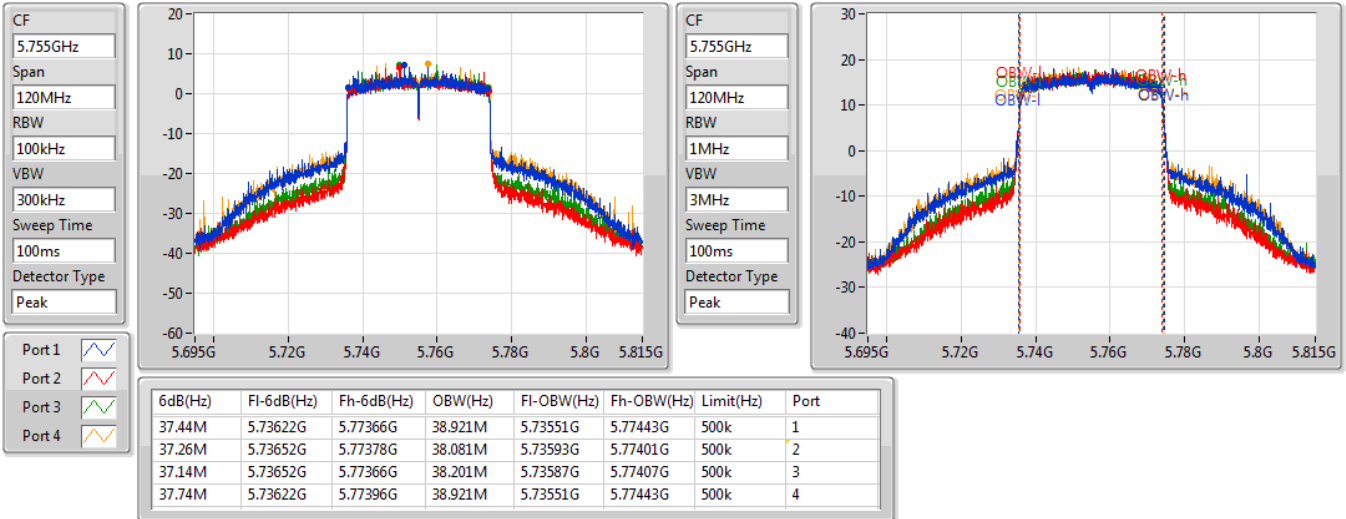
5710MHz Straddle 5.725-5.85GHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

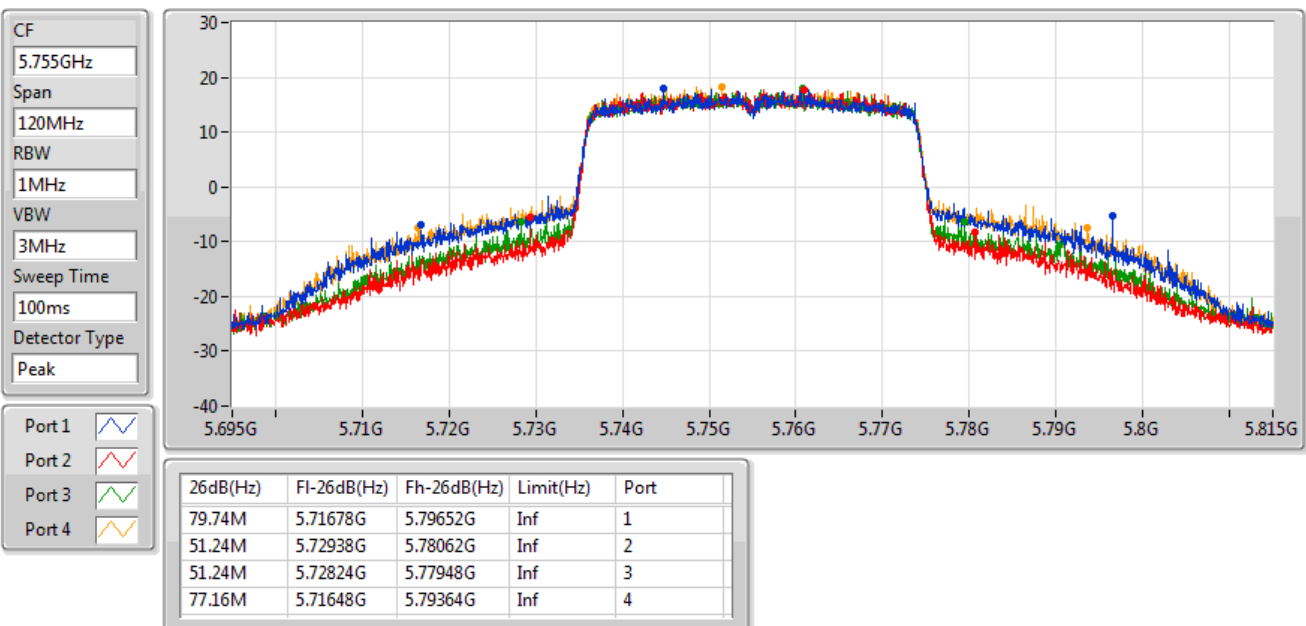
5755MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

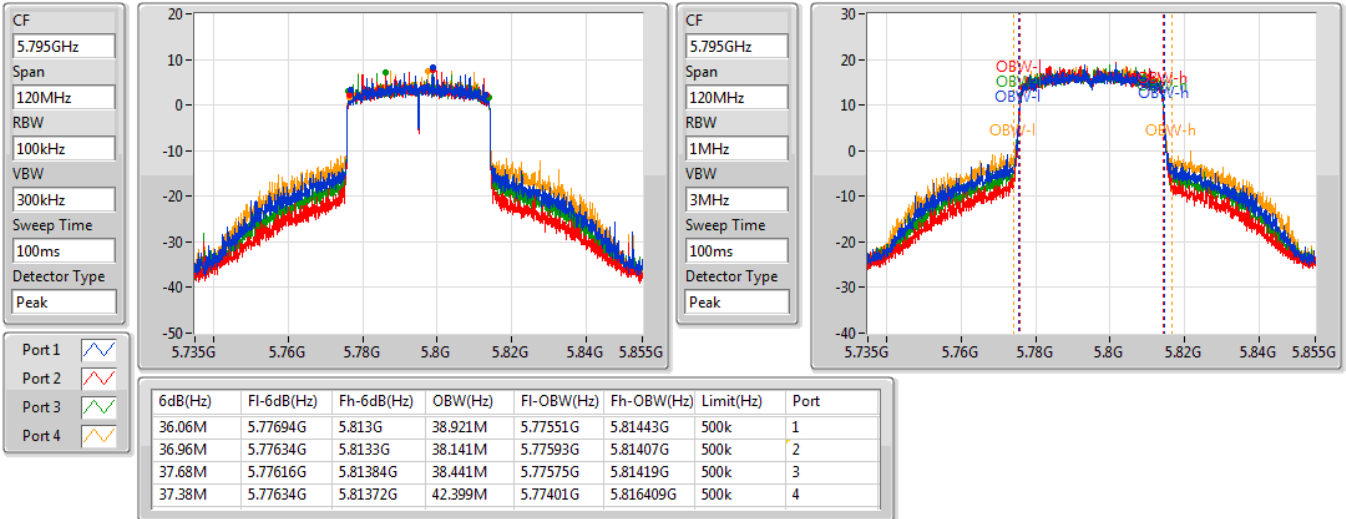
5755MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

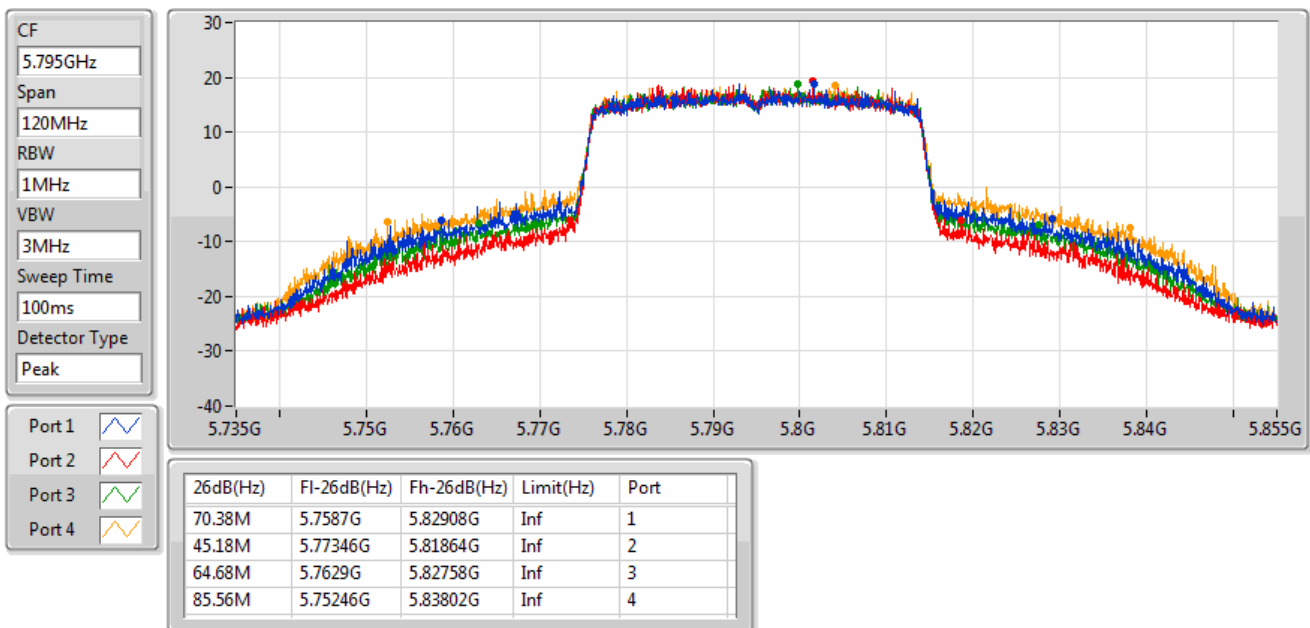
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802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

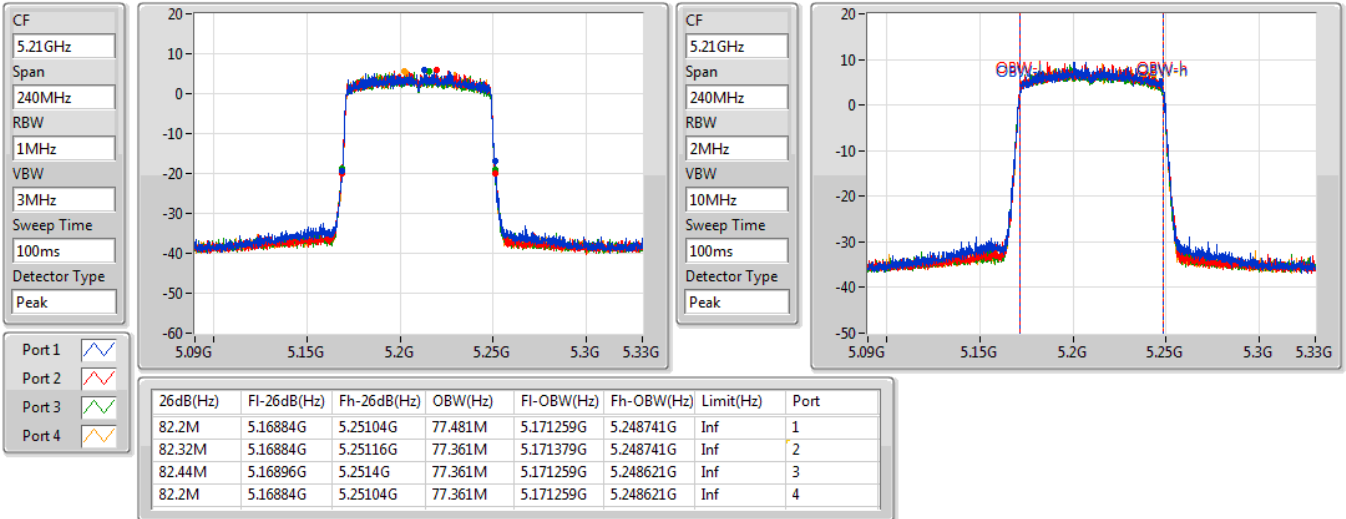
5795MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

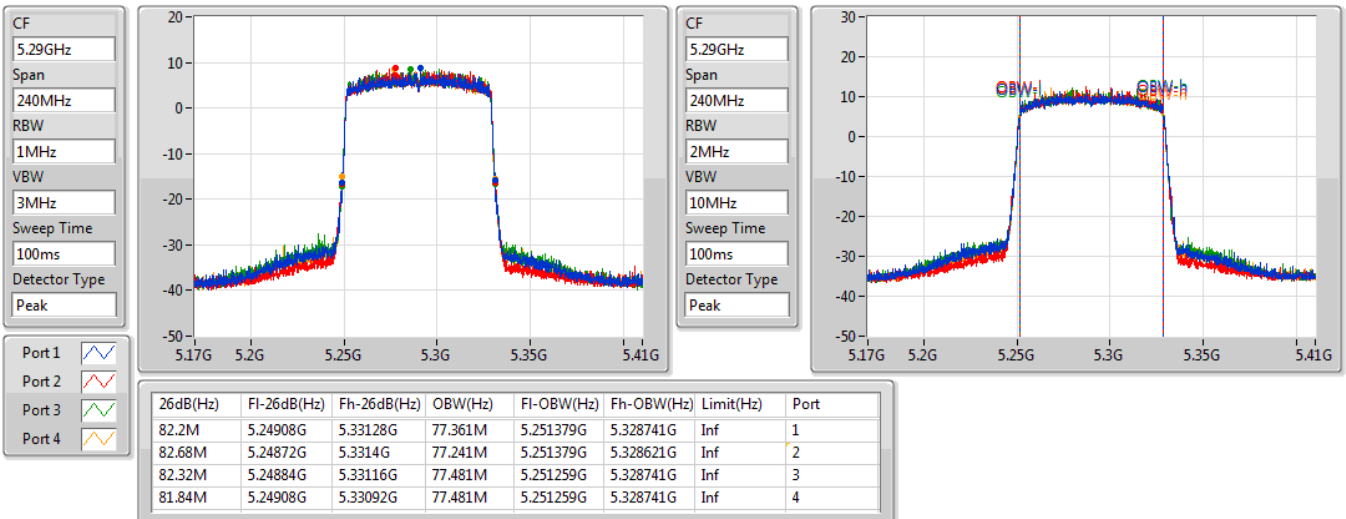
5210MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

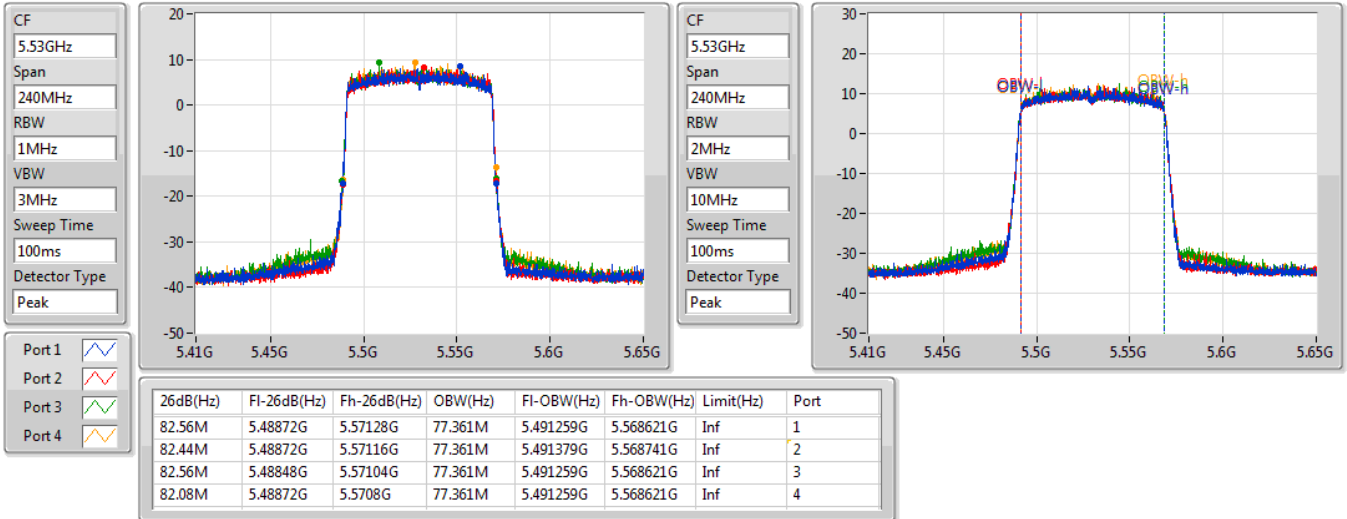
5290MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

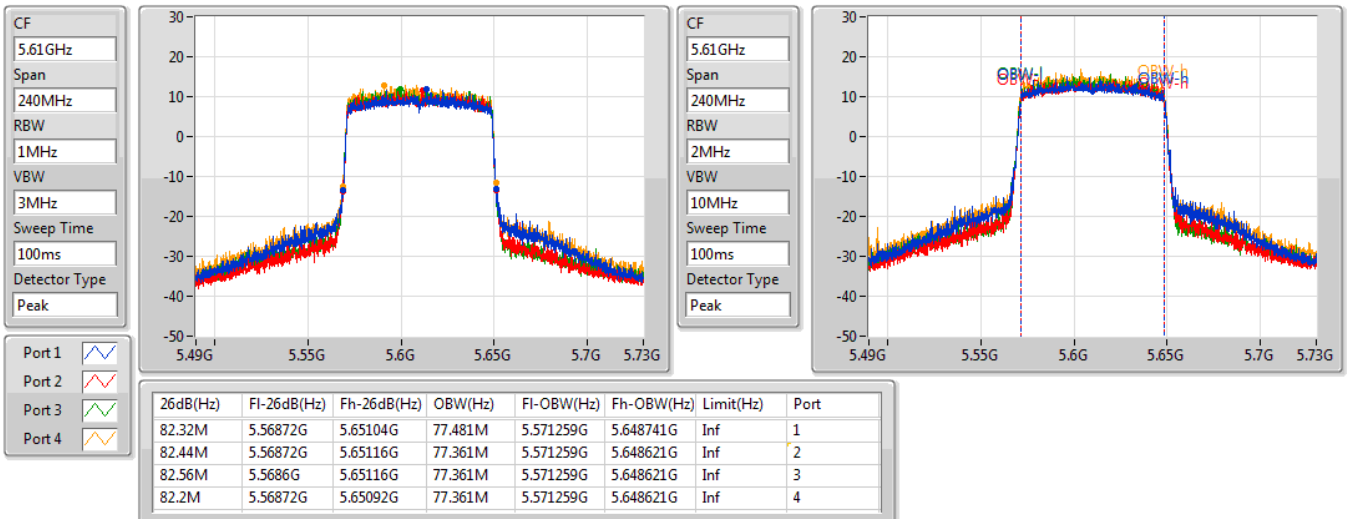
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802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

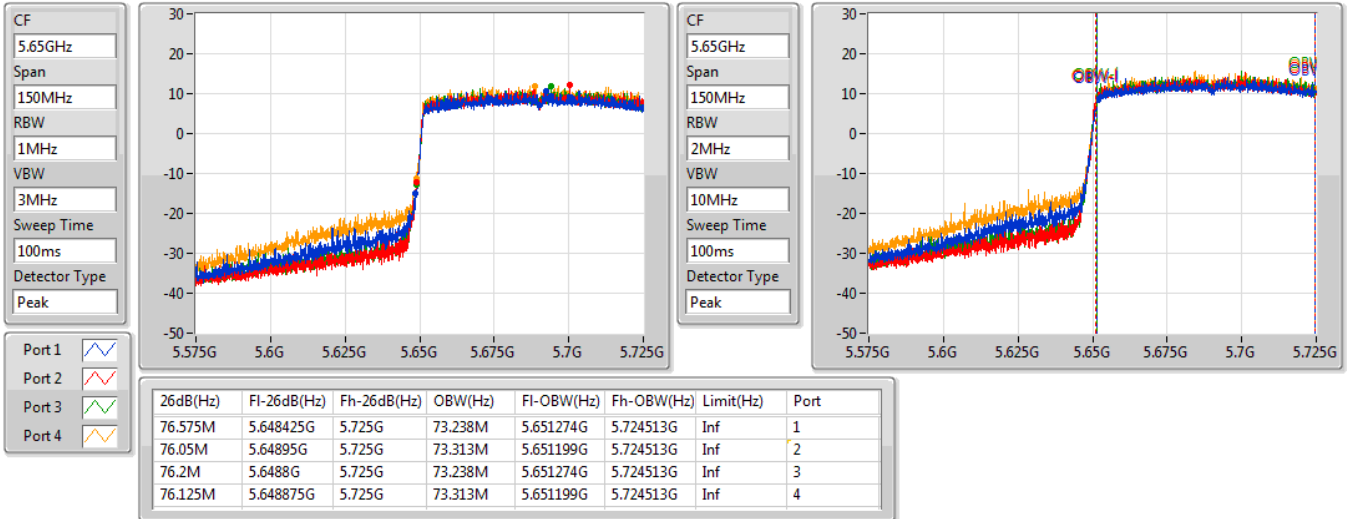
5610MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

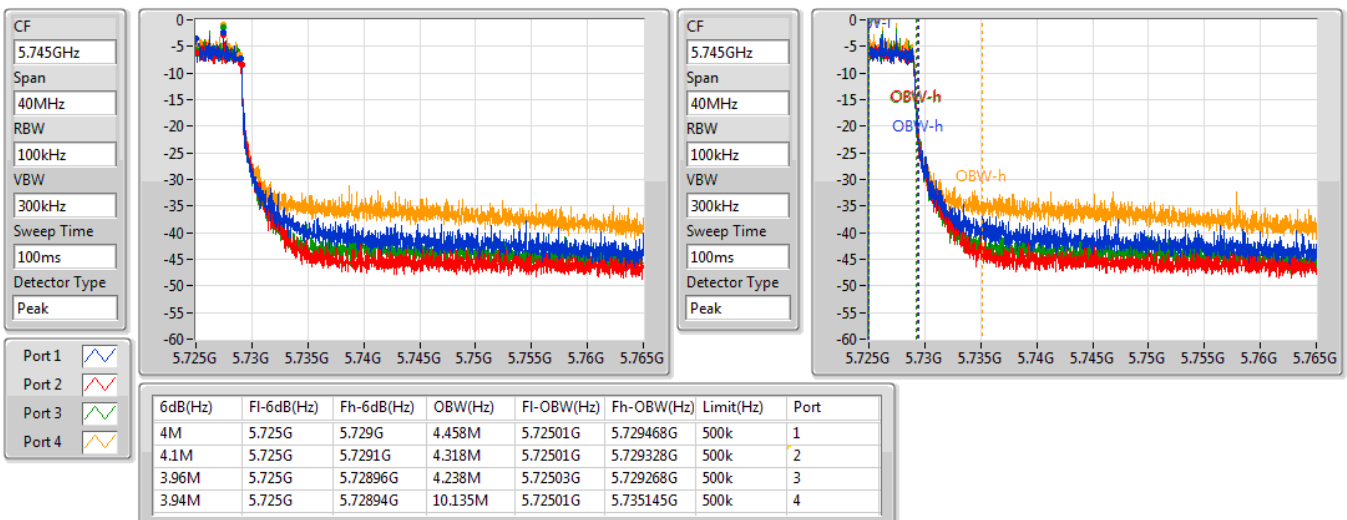
5690MHz Straddle 5.47-5.725GHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

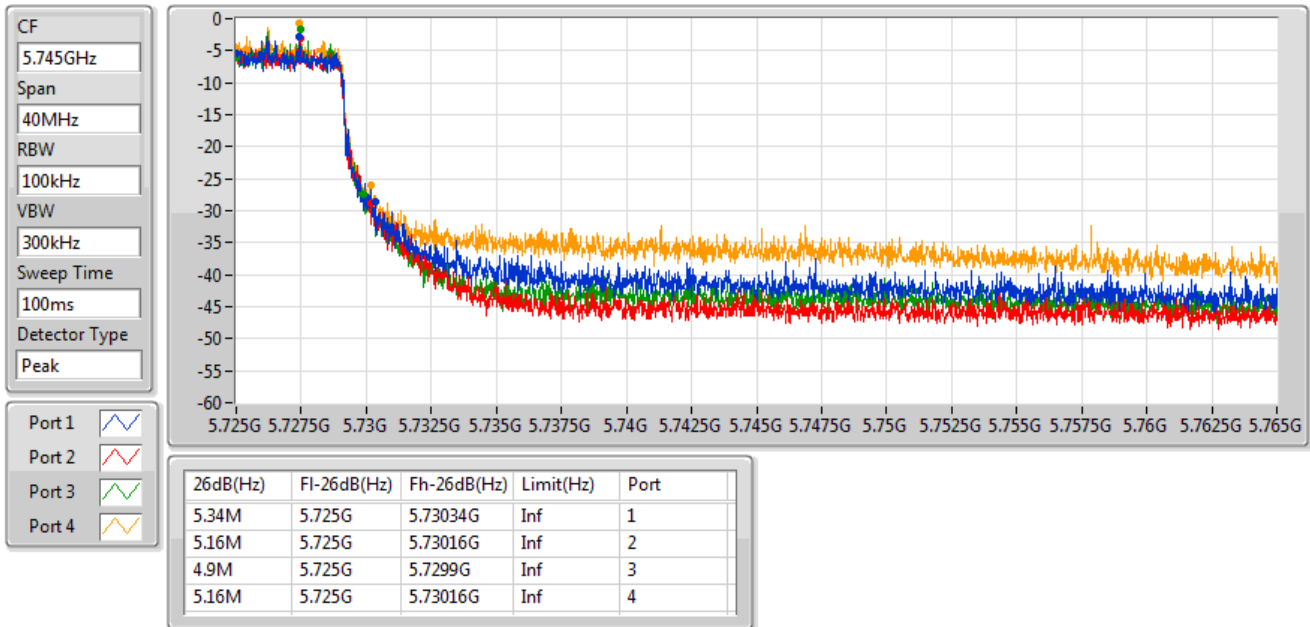
5690MHz Straddle 5.725-5.85GHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

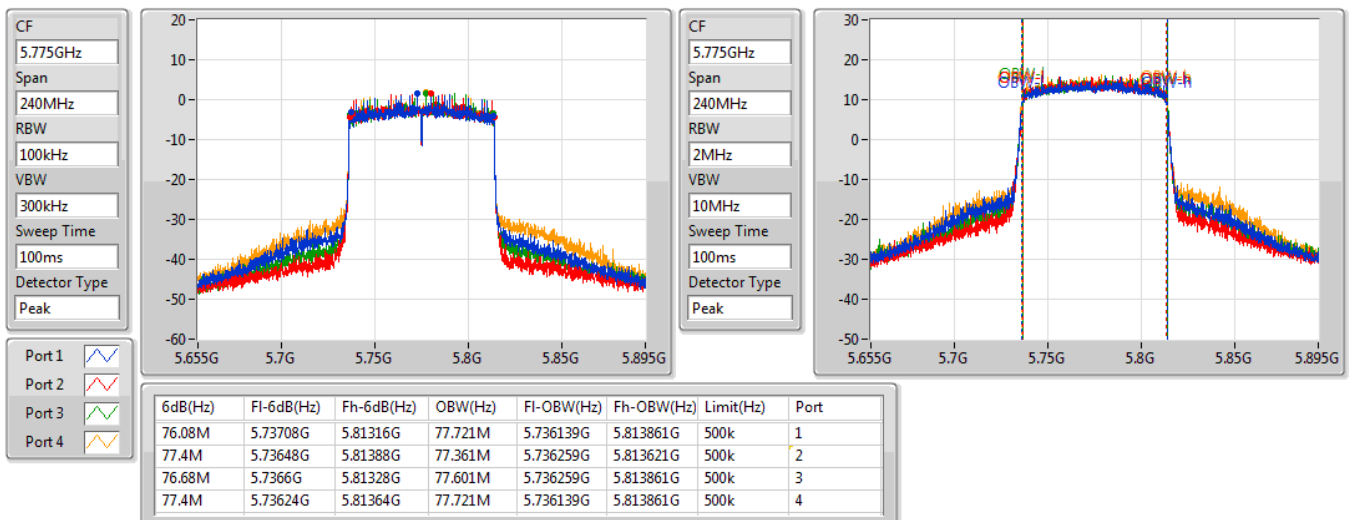
5690MHz Straddle 5.725-5.85GHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

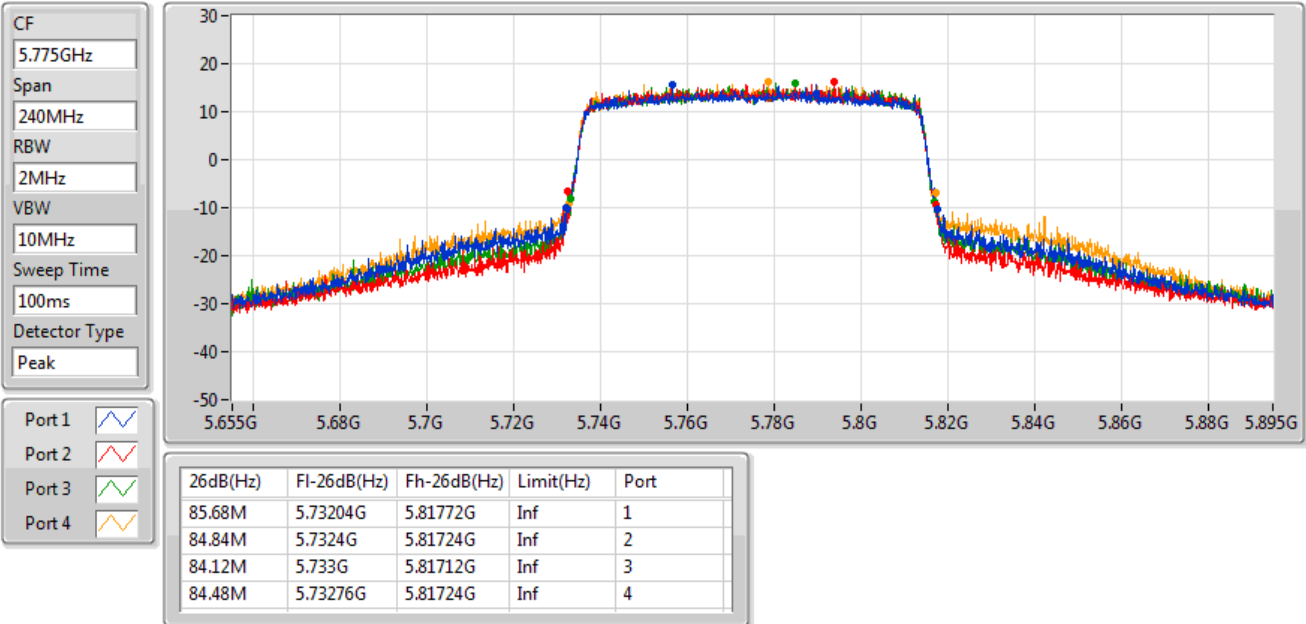
5775MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

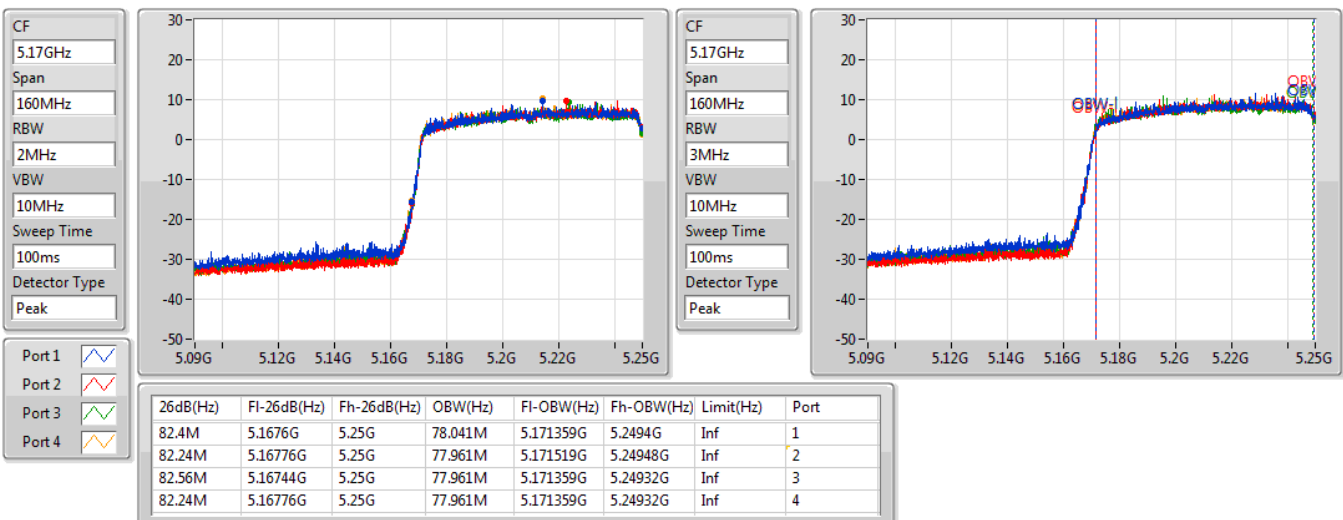
5775MHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

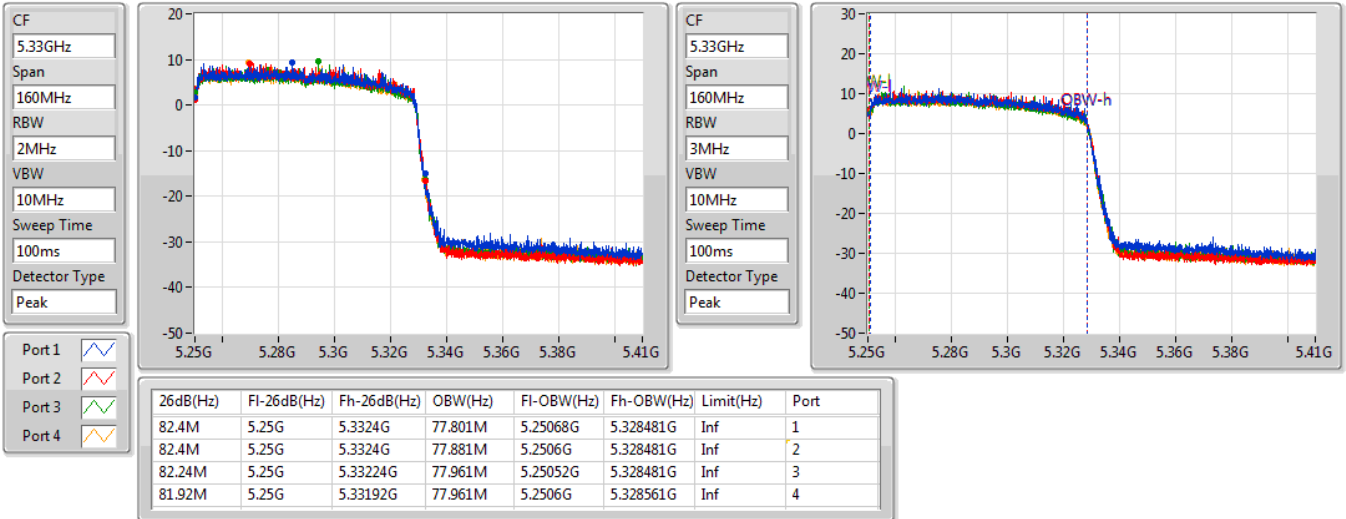
5250MHz Straddle 5.15-5.25GHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

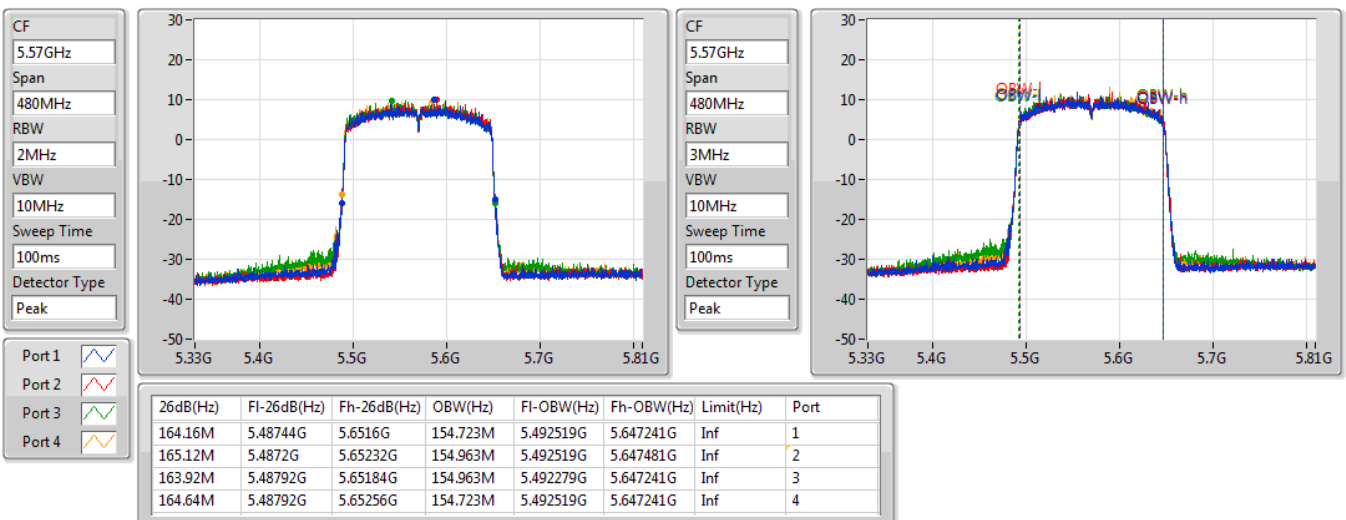
5250MHz Straddle 5.25-5.35GHz



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

5570MHz



Non-beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	17.85	0.06095	23.18	0.20797
802.11ax HEW20_Nss4,(MCS0)_4TX	17.69	0.05875	23.02	0.20045
802.11ax HEW40_Nss4,(MCS0)_4TX	17.68	0.05861	23.01	0.19999
802.11ax HEW80_Nss4,(MCS0)_4TX	17.66	0.05834	22.99	0.19907
802.11ax HEW160_Nss4,(MCS0)_4TX	17.64	0.05808	22.97	0.19815
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	17.07	0.05093	22.56	0.18030
802.11ax HEW20_Nss4,(MCS0)_4TX	23.73	0.23605	29.22	0.83560
802.11ax HEW40_Nss4,(MCS0)_4TX	23.52	0.22491	29.01	0.79616
802.11ax HEW80_Nss4,(MCS0)_4TX	20.36	0.10864	25.85	0.38459
802.11ax HEW160_Nss4,(MCS0)_4TX	17.52	0.05649	23.01	0.19999
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	17.38	0.05470	23.34	0.21577
802.11ax HEW20_Nss4,(MCS0)_4TX	23.70	0.23442	29.66	0.92470
802.11ax HEW40_Nss4,(MCS0)_4TX	23.73	0.23605	29.69	0.93111
802.11ax HEW80_Nss4,(MCS0)_4TX	23.83	0.24155	29.79	0.95280
802.11ax HEW160_Nss4,(MCS0)_4TX	20.62	0.11535	26.58	0.45499
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	26.04	0.40179	31.79	1.51008
802.11ax HEW20_Nss4,(MCS0)_4TX	26.01	0.39902	31.76	1.49968
802.11ax HEW40_Nss4,(MCS0)_4TX	27.52	0.56494	33.27	2.12324
802.11ax HEW80_Nss4,(MCS0)_4TX	24.32	0.27040	30.07	1.01625

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.33	11.87	11.46	11.82	11.87	17.78	30.00	23.11	36.00
5200MHz	Pass	5.33	11.97	11.59	11.92	11.84	17.85	30.00	23.18	36.00
5240MHz	Pass	5.33	11.88	11.66	11.79	11.82	17.81	30.00	23.14	36.00
5260MHz	Pass	5.49	10.82	10.87	10.94	10.76	16.87	24.00	22.36	30.00
5300MHz	Pass	5.49	11.05	11.12	11.25	10.78	17.07	24.00	22.56	30.00
5320MHz	Pass	5.49	11.06	11.09	11.27	10.63	17.04	24.00	22.53	30.00
5500MHz	Pass	5.96	11.17	11.25	11.57	11.45	17.38	24.00	23.34	30.00
5580MHz	Pass	5.96	11.01	10.97	11.46	11.25	17.20	24.00	23.16	30.00
5700MHz	Pass	5.96	11.13	11.16	11.15	11.18	17.18	24.00	23.14	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.96	9.99	10.22	10.32	10.15	16.19	22.79	22.15	28.79
5720MHz Straddle 5.725-5.85GHz	Pass	5.75	4.66	4.82	4.79	4.59	10.74	30.00	16.49	36.00
5745MHz	Pass	5.75	19.83	19.56	19.66	19.72	25.71	30.00	31.46	36.00
5785MHz	Pass	5.75	20.09	19.97	20.05	19.96	26.04	30.00	31.79	36.00
5825MHz	Pass	5.75	19.66	19.52	19.65	19.34	25.57	30.00	31.32	36.00
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.33	11.81	11.24	11.75	11.86	17.69	30.00	23.02	36.00
5200MHz	Pass	5.33	11.76	11.22	11.63	11.92	17.66	30.00	22.99	36.00
5240MHz	Pass	5.33	11.75	11.39	11.55	11.63	17.60	30.00	22.93	36.00
5260MHz	Pass	5.49	17.91	17.74	17.01	18.02	23.71	24.00	29.20	30.00
5300MHz	Pass	5.49	17.84	17.64	17.15	17.84	23.65	24.00	29.14	30.00
5320MHz	Pass	5.49	17.91	17.82	17.26	17.83	23.73	24.00	29.22	30.00
5500MHz	Pass	5.96	17.71	17.62	17.29	18.02	23.69	24.00	29.65	30.00
5580MHz	Pass	5.96	17.35	17.22	17.67	18.38	23.70	24.00	29.66	30.00
5700MHz	Pass	5.96	16.55	16.46	16.65	16.94	22.67	24.00	28.63	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.96	15.58	15.73	15.95	16.89	22.09	23.00	28.05	29.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.75	11.24	11.43	11.65	12.6	17.78	30.00	23.53	36.00
5745MHz	Pass	5.75	19.52	19.34	19.66	19.76	25.59	30.00	31.34	36.00
5785MHz	Pass	5.75	19.95	19.74	20.09	20.17	26.01	30.00	31.76	36.00
5825MHz	Pass	5.75	20.02	19.78	20.02	19.75	25.91	30.00	31.66	36.00
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.33	11.62	11.29	11.65	11.77	17.61	30.00	22.94	36.00
5230MHz	Pass	5.33	11.66	11.36	11.95	11.63	17.68	30.00	23.01	36.00
5270MHz	Pass	5.49	17.85	17.55	16.96	17.58	23.52	24.00	29.01	30.00
5310MHz	Pass	5.49	14.87	14.77	14.95	14.85	20.88	24.00	26.37	30.00
5510MHz	Pass	5.96	14.27	14.11	14.65	14.57	20.43	24.00	26.39	30.00
5590MHz	Pass	5.96	17.23	17.15	17.83	18.49	23.73	24.00	29.69	30.00

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)
5670MHz	Pass	5.96	17.29	17.14	17.27	17.22	23.25	24.00	29.21	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.96	16.94	17.24	17.35	18.4	23.54	24.00	29.50	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.75	6.62	6.78	6.99	7.96	13.14	30.00	18.89	36.00
5755MHz	Pass	5.75	21.06	20.63	21.12	21.17	27.02	30.00	32.77	36.00
5795MHz	Pass	5.75	21.63	21.17	21.62	21.55	27.52	30.00	33.27	36.00
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.33	11.77	11.52	11.59	11.66	17.66	30.00	22.99	36.00
5290MHz	Pass	5.49	14.33	14.27	14.49	14.26	20.36	24.00	25.85	30.00
5530MHz	Pass	5.96	14.26	14.08	14.54	14.43	20.35	24.00	26.31	30.00
5610MHz	Pass	5.96	17.28	17.21	18.01	18.59	23.83	24.00	29.79	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.96	17.22	17.33	17.5	18.31	23.63	24.00	29.59	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.75	3.28	3.23	3.59	4.38	9.67	30.00	15.42	36.00
5775MHz	Pass	5.75	18.34	18.06	18.56	18.23	24.32	30.00	30.07	36.00
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.33	11.76	11.4	11.72	11.59	17.64	30.00	22.97	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	5.49	11.78	11.52	11.45	11.23	17.52	24.00	23.01	30.00
5570MHz	Pass	5.96	14.73	14.21	14.72	14.73	20.62	24.00	26.58	30.00

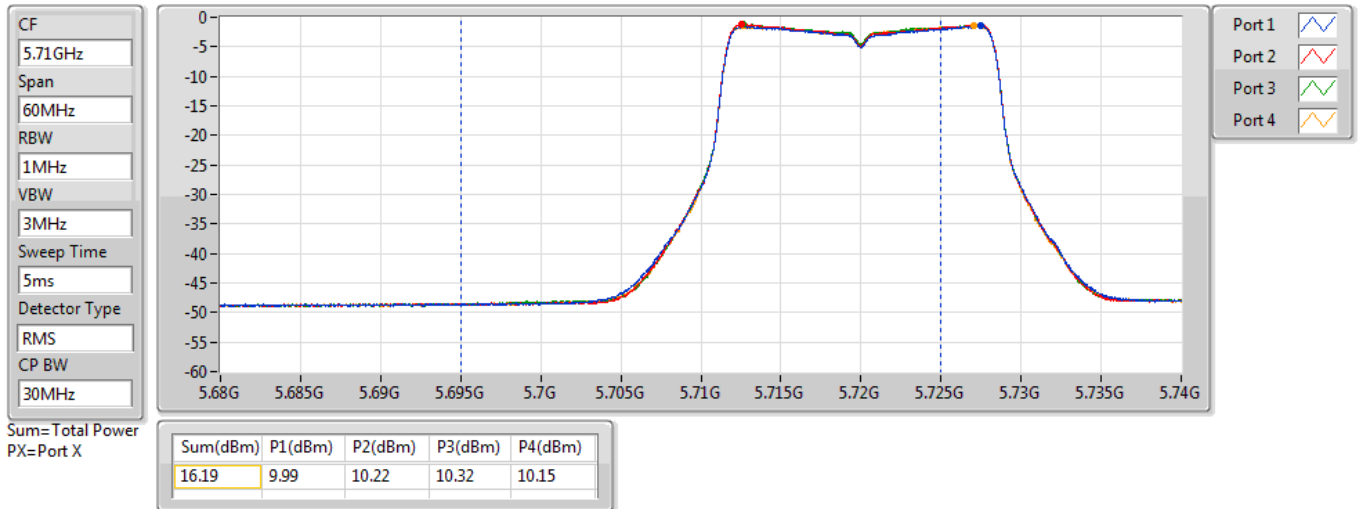
DG = Directional Gain; Port X = Port X output power



802.11a_Nss1,(6Mbps)_4TX

AV Power

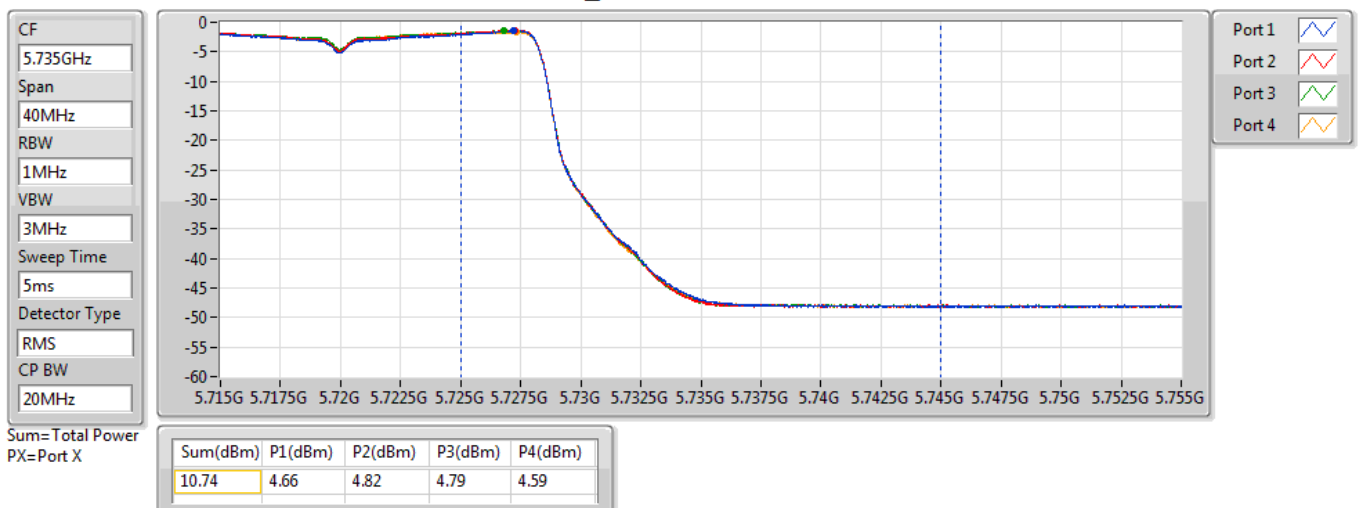
5720MHz Straddle 5.47-5.725GHz_TX



802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

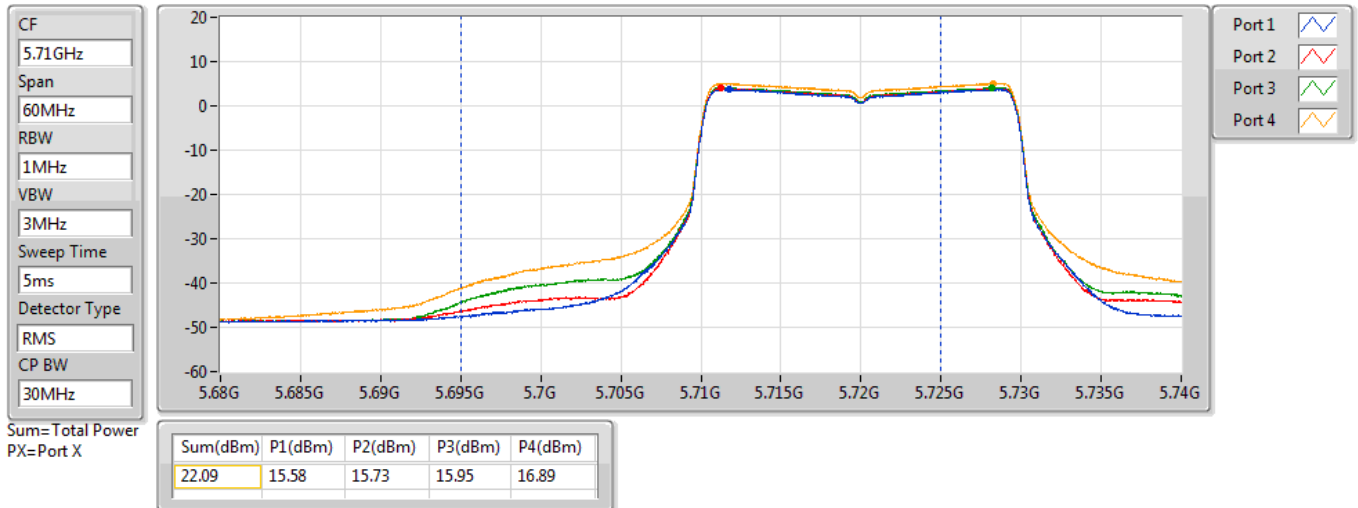




802.11ax HEW20_Nss4,(MCS0)_4TX

AV Power

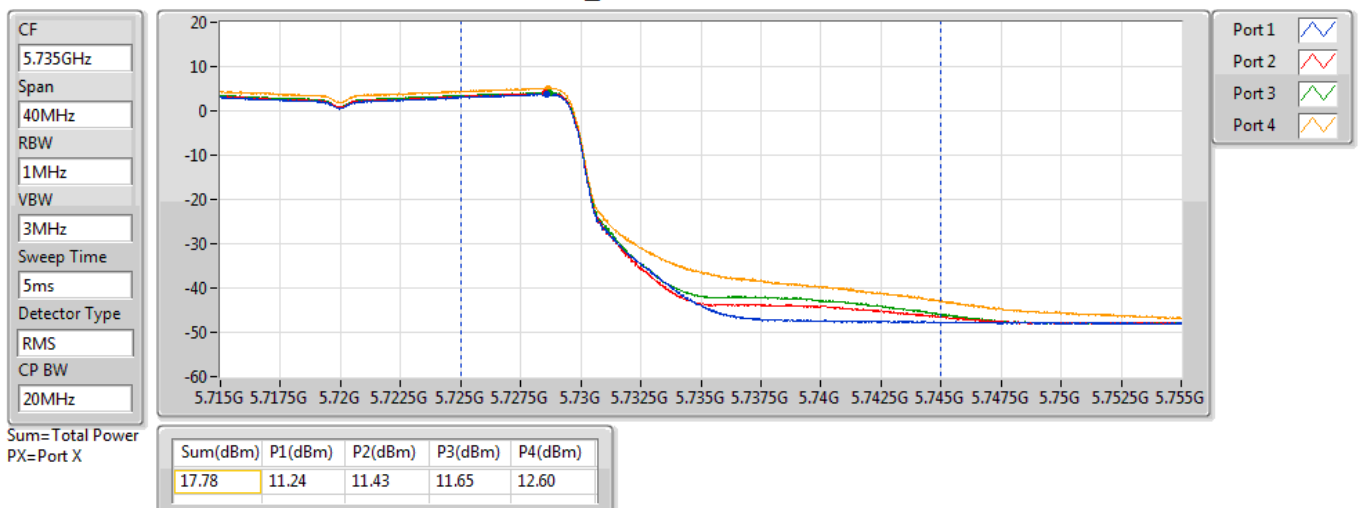
5720MHz Straddle 5.47-5.725GHz_TX



802.11ax HEW20_Nss4,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

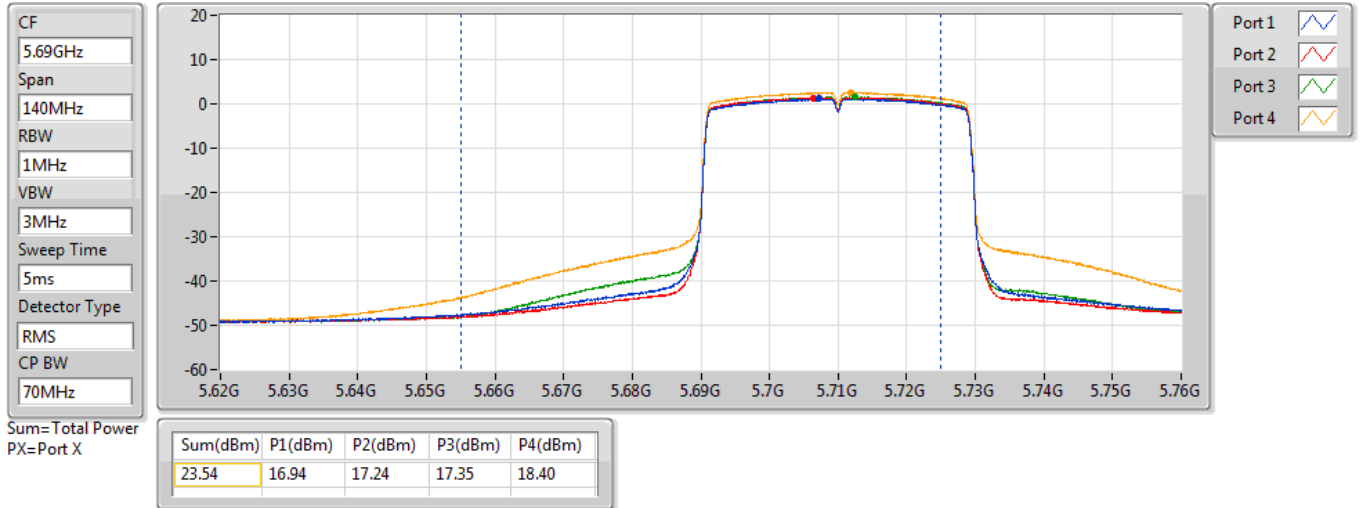




802.11ax HEW40_Nss4,(MCS0)_4TX

AV Power

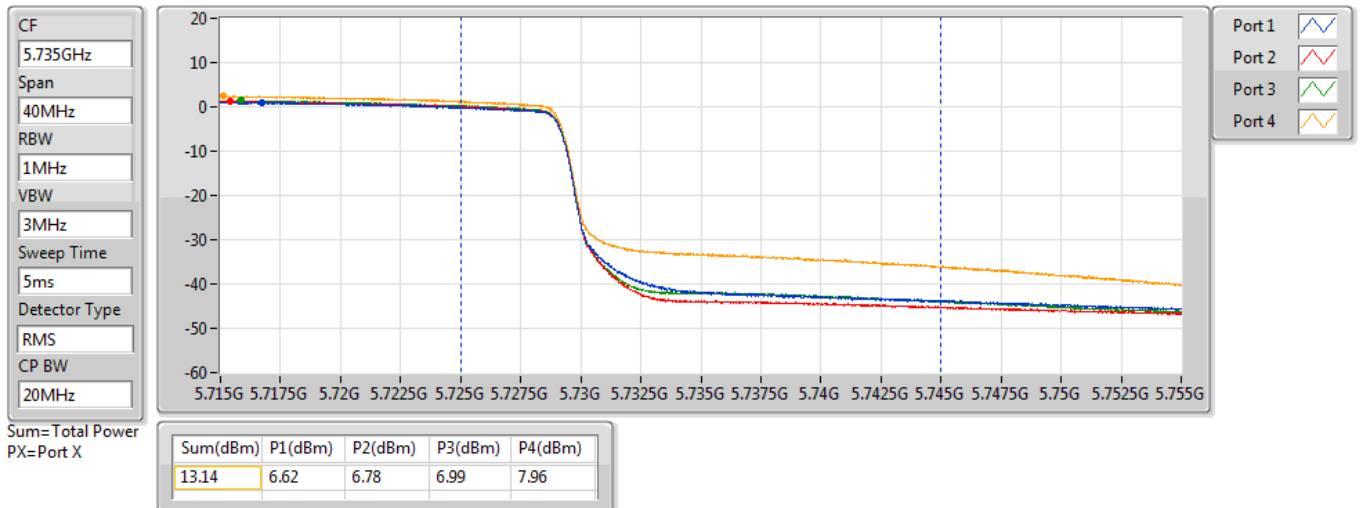
5710MHz Straddle 5.47-5.725GHz_TX



802.11ax HEW40_Nss4,(MCS0)_4TX

AV Power

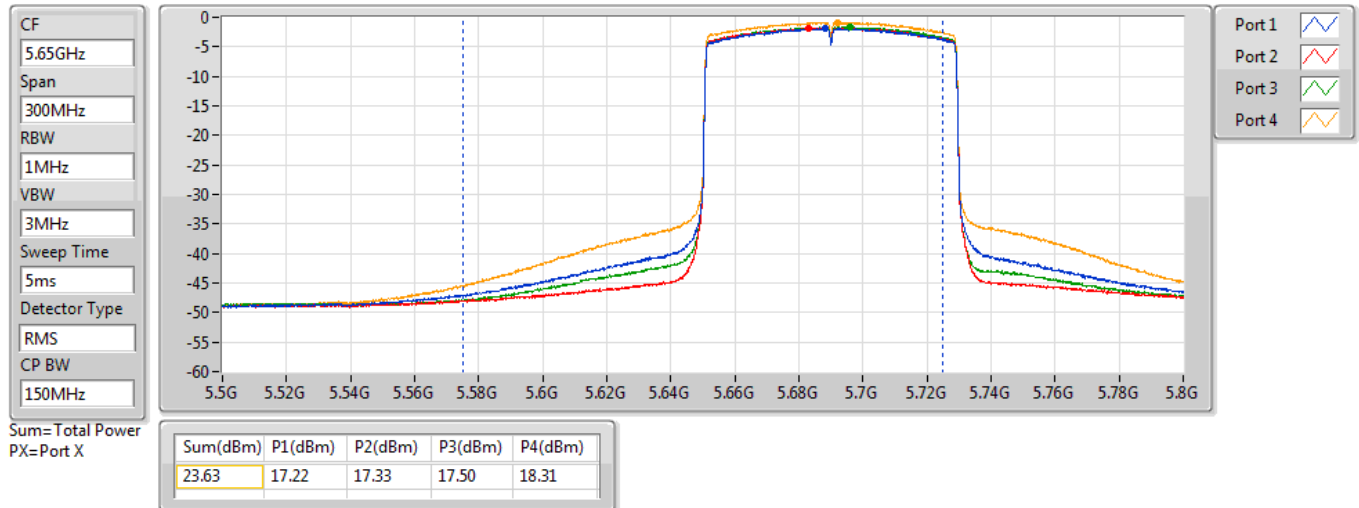
5710MHz Straddle 5.725-5.85GHz_TX



802.11ax HEW80_Nss4,(MCS0)_4TX

AV Power

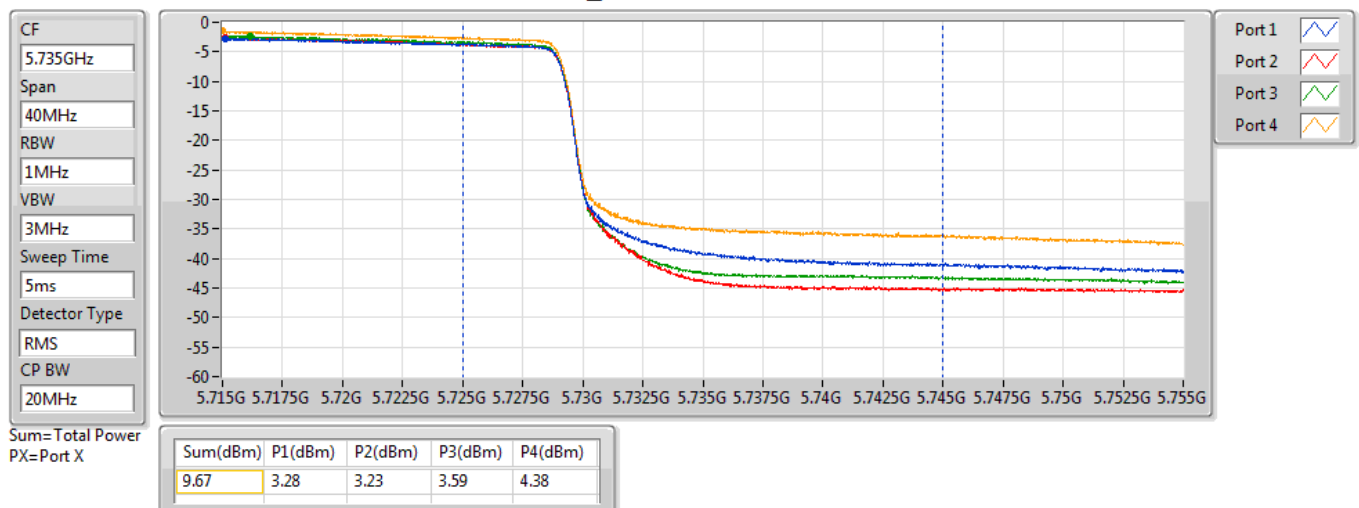
5690MHz Straddle 5.47-5.725GHz_TX



802.11ax HEW80_Nss4,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TX

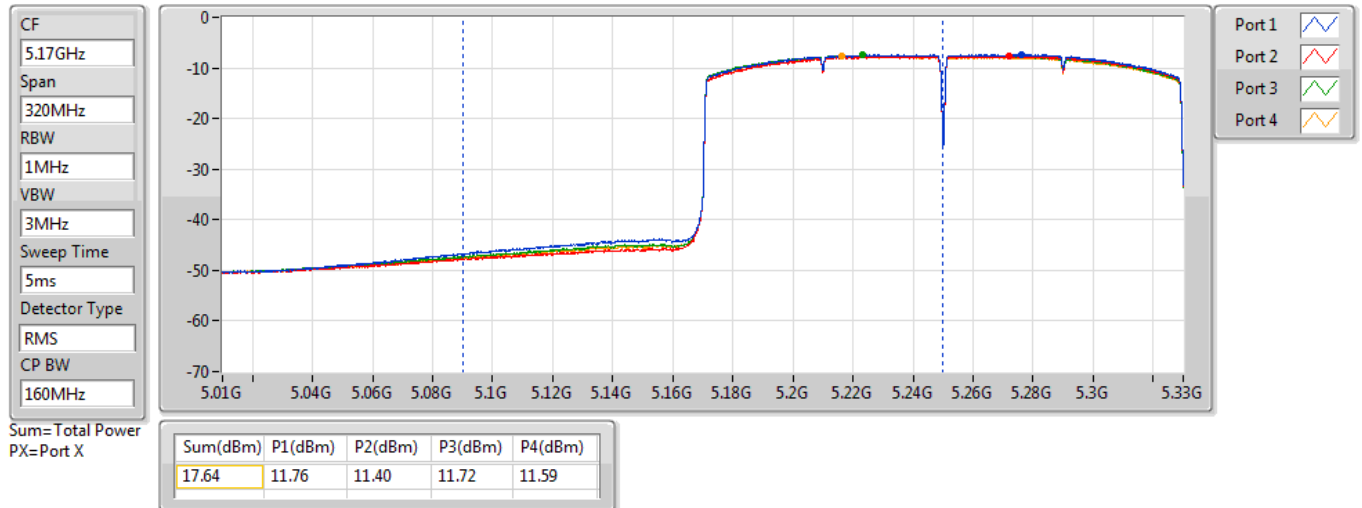




802.11ax HEW160_Nss4,(MCS0)_4TX

AV Power

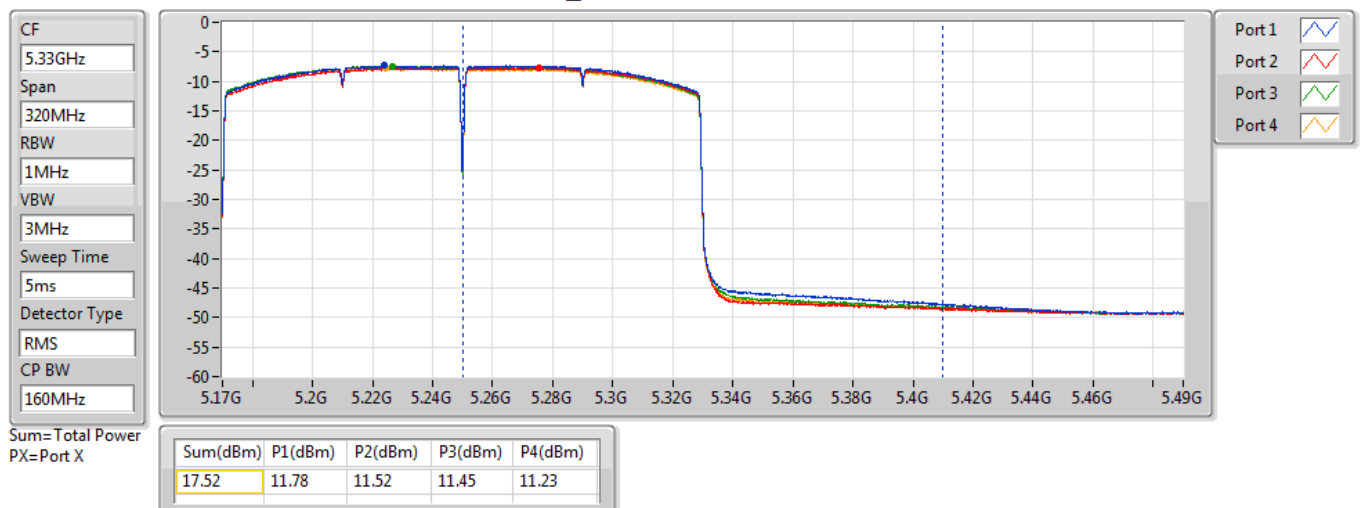
5250MHz Straddle 5.15-5.25GHz_TX



802.11ax HEW160_Nss4,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TX



**Non-beamforming mode**

Mode	Result	Gain-Elevation 30° (dBi)	Total Power (dBm)	EIRP-Elevation 30° (dBm)	EIRP Limit- Elevation 30° (dBm)
802.11a_Nss1,(6Mbps)_4TX_5180MHz	Pass	2.75	17.78	20.53	21.00
802.11a_Nss1,(6Mbps)_4TX_5200MHz	Pass	2.75	17.85	20.60	21.00
802.11a_Nss1,(6Mbps)_4TX_5240MHz	Pass	2.75	17.81	20.56	21.00
802.11ax HEW20_Nss4,(MCS0)_4TX_5180MHz	Pass	2.75	17.69	20.44	21.00
802.11ax HEW20_Nss4,(MCS0)_4TX_5200MHz	Pass	2.75	17.66	20.41	21.00
802.11ax HEW20_Nss4,(MCS0)_4TX_5240MHz	Pass	2.75	17.60	20.35	21.00
802.11ax HEW40_Nss4,(MCS0)_4TX_5190MHz	Pass	2.75	17.61	20.36	21.00
802.11ax HEW40_Nss4,(MCS0)_4TX_5230MHz	Pass	2.75	17.68	20.43	21.00
802.11ax HEW80_Nss4,(MCS0)_4TX_5210MHz	Pass	2.75	17.66	20.41	21.00
802.11ax HEW160_Nss4,(MCS0)_4TX_5250MHz Straddle 5.15-5.25GHz	Pass	2.75	17.64	20.39	21.00

Beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	11.67	0.01469	17.00	0.05012
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	11.66	0.01466	16.99	0.05000
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	11.64	0.01459	16.97	0.04977
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	11.62	0.01452	16.95	0.04955
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	17.71	0.05902	23.20	0.20893
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	17.50	0.05623	22.99	0.19907
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	14.34	0.02716	19.83	0.09616
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	11.50	0.01413	16.99	0.05000
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	17.68	0.05861	23.64	0.23121
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	17.71	0.05902	23.67	0.23281
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	17.81	0.06039	23.77	0.23823
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	14.60	0.02884	20.56	0.11376
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	19.99	0.09977	25.74	0.37497
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	21.50	0.14125	27.25	0.53088
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	18.30	0.06761	24.05	0.25410

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_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.33	5.79	5.22	5.73	5.84	11.67	30.00	17.00	36.00
5200MHz	Pass	5.33	5.74	5.2	5.61	5.9	11.64	30.00	16.97	36.00
5240MHz	Pass	5.33	5.73	5.37	5.53	5.61	11.58	30.00	16.91	36.00
5260MHz	Pass	5.49	11.89	11.72	10.99	12	17.69	24.00	23.18	30.00
5300MHz	Pass	5.49	11.82	11.62	11.13	11.82	17.63	24.00	23.12	30.00
5320MHz	Pass	5.49	11.89	11.8	11.24	11.81	17.71	24.00	23.20	30.00
5500MHz	Pass	5.96	11.69	11.6	11.27	12	17.67	24.00	23.63	30.00
5580MHz	Pass	5.96	11.33	11.2	11.65	12.36	17.68	24.00	23.64	30.00
5700MHz	Pass	5.96	10.53	10.44	10.63	10.92	16.65	24.00	22.61	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.96	9.56	9.71	9.93	10.87	16.07	23.00	22.03	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.75	5.22	5.41	5.63	6.58	11.76	30.00	17.51	36.00
5745MHz	Pass	5.75	13.5	13.32	13.64	13.74	19.57	30.00	25.32	36.00
5785MHz	Pass	5.75	13.93	13.72	14.07	14.15	19.99	30.00	25.74	36.00
5825MHz	Pass	5.75	14	13.76	14	13.73	19.89	30.00	25.64	36.00
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.33	5.6	5.27	5.63	5.75	11.59	30.00	16.92	36.00
5230MHz	Pass	5.33	5.64	5.34	5.93	5.61	11.66	30.00	16.99	36.00
5270MHz	Pass	5.49	11.83	11.53	10.94	11.56	17.50	24.00	22.99	30.00
5310MHz	Pass	5.49	8.85	8.75	8.93	8.83	14.86	24.00	20.35	30.00
5510MHz	Pass	5.96	8.25	8.09	8.63	8.55	14.41	24.00	20.37	30.00
5590MHz	Pass	5.96	11.21	11.13	11.81	12.47	17.71	24.00	23.67	30.00
5670MHz	Pass	5.96	11.27	11.12	11.25	11.2	17.23	24.00	23.19	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.96	10.92	11.22	11.33	12.38	17.52	24.00	23.48	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.75	0.6	0.76	0.97	1.94	7.12	30.00	12.87	36.00
5755MHz	Pass	5.75	15.04	14.61	15.1	15.15	21.00	30.00	26.75	36.00
5795MHz	Pass	5.75	15.61	15.15	15.6	15.53	21.50	30.00	27.25	36.00
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.33	5.75	5.5	5.57	5.64	11.64	30.00	16.97	36.00
5290MHz	Pass	5.49	8.31	8.25	8.47	8.24	14.34	24.00	19.83	30.00
5530MHz	Pass	5.96	8.24	8.06	8.52	8.41	14.33	24.00	20.29	30.00
5610MHz	Pass	5.96	11.26	11.19	11.99	12.57	17.81	24.00	23.77	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.96	11.2	11.31	11.48	12.29	17.61	24.00	23.57	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.75	-2.74	-2.79	-2.43	-1.64	3.65	30.00	9.40	36.00
5775MHz	Pass	5.75	12.32	12.04	12.54	12.21	18.30	30.00	24.05	36.00



Conducted Output Power(Average)

Appendix B.3

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 HEW160-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.33	5.74	5.38	5.7	5.57	11.62	30.00	16.95	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	5.49	5.76	5.5	5.43	5.21	11.50	24.00	16.99	30.00
5570MHz	Pass	5.96	8.71	8.19	8.7	8.71	14.60	24.00	20.56	30.00

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

Directional Gain = $10 \log [(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
1	5.33	5.49	5.96	5.75
2	5.33	5.49	5.96	5.75
3	5.33	5.49	5.96	5.75
4	5.33	5.49	5.96	5.75
Directional Gain (dBi)	5.33	5.49	5.96	5.75

**Beamforming mode**

Mode	Result	Gain-Elevation 30° (dBi)	Total Power (dBm)	EIRP-Elevation 30° (dBm)	EIRP Limit- Elevation 30° (dBm)
802.11ax HEW20-BF_Nss4,(MCS0)_4TX_5180MHz	Pass	2.75	11.67	14.42	21.00
802.11ax HEW20-BF_Nss4,(MCS0)_4TX_5200MHz	Pass	2.75	11.64	14.39	21.00
802.11ax HEW20-BF_Nss4,(MCS0)_4TX_5240MHz	Pass	2.75	11.58	14.33	21.00
802.11ax HEW40-BF_Nss4,(MCS0)_4TX_5190MHz	Pass	2.75	11.59	14.34	21.00
802.11ax HEW40-BF_Nss4,(MCS0)_4TX_5230MHz	Pass	2.75	11.66	14.41	21.00
802.11ax HEW80-BF_Nss4,(MCS0)_4TX_5210MHz	Pass	2.75	11.64	14.39	21.00
802.11ax HEW160-BF_Nss4,(MCS0)_4TX_5250MHz Straddle 5.15-5.25GHz	Pass	2.75	11.62	14.37	21.00

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	5.81	17.16
802.11ax HEW20_Nss4,(MCS0)_4TX	4.59	9.92
802.11ax HEW40_Nss4,(MCS0)_4TX	1.74	7.07
802.11ax HEW80_Nss4,(MCS0)_4TX	-1.18	4.15
802.11ax HEW160_Nss4,(MCS0)_4TX	-1.14	4.19
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	4.65	16.16
802.11ax HEW20_Nss4,(MCS0)_4TX	10.60	16.09
802.11ax HEW40_Nss4,(MCS0)_4TX	7.75	13.24
802.11ax HEW80_Nss4,(MCS0)_4TX	1.74	7.23
802.11ax HEW160_Nss4,(MCS0)_4TX	-1.14	4.35
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	4.86	16.84
802.11ax HEW20_Nss4,(MCS0)_4TX	10.86	16.82
802.11ax HEW40_Nss4,(MCS0)_4TX	8.07	14.03
802.11ax HEW80_Nss4,(MCS0)_4TX	5.18	11.14
802.11ax HEW160_Nss4,(MCS0)_4TX	-0.69	5.27
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	12.07	23.84
802.11ax HEW20_Nss4,(MCS0)_4TX	11.74	17.49
802.11ax HEW40_Nss4,(MCS0)_4TX	10.36	16.11
802.11ax HEW80_Nss4,(MCS0)_4TX	4.21	9.96

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	11.35	-0.02	0.03	-0.17	-0.03	5.81	11.65	17.16	23.00
5200MHz	Pass	11.35	-0.12	-0.07	-0.24	-0.03	5.77	11.65	17.12	23.00
5240MHz	Pass	11.35	-0.27	0.13	-0.16	-0.17	5.71	11.65	17.06	23.00
5260MHz	Pass	11.51	-1.48	-1.32	-1.18	-1.47	4.55	5.49	16.06	17.00
5300MHz	Pass	11.51	-1.30	-1.31	-1.07	-1.40	4.65	5.49	16.16	17.00
5320MHz	Pass	11.51	-1.34	-1.18	-1.04	-1.77	4.60	5.49	16.11	17.00
5500MHz	Pass	11.98	-1.21	-1.09	-0.61	-1.06	4.86	5.02	16.84	17.00
5580MHz	Pass	11.98	-1.41	-1.47	-0.98	-1.26	4.64	5.02	16.62	17.00
5700MHz	Pass	11.98	-1.30	-1.04	-1.28	-1.31	4.61	5.02	16.59	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.98	-1.46	-1.22	-1.09	-1.45	4.60	5.02	16.58	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	11.77	-2.86	-2.68	-2.79	-2.83	3.06	24.23	14.83	36.00
5745MHz	Pass	11.77	5.74	5.97	5.79	5.66	11.57	24.23	23.34	36.00
5785MHz	Pass	11.77	6.07	6.31	6.36	5.98	12.07	24.23	23.84	36.00
5825MHz	Pass	11.77	5.78	6.06	5.83	5.42	11.63	24.23	23.40	36.00
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.33	-1.27	-1.46	-1.44	-1.18	4.51	17.00	9.84	23.00
5200MHz	Pass	5.33	-1.26	-1.49	-1.64	-1.06	4.46	17.00	9.79	23.00
5240MHz	Pass	5.33	-1.26	-1.06	-1.36	-1.34	4.59	17.00	9.92	23.00
5260MHz	Pass	5.49	5.15	4.76	4.08	5.07	10.60	11.00	16.09	17.00
5300MHz	Pass	5.49	4.88	4.94	4.22	4.74	10.55	11.00	16.04	17.00
5320MHz	Pass	5.49	4.95	4.74	4.38	4.86	10.59	11.00	16.08	17.00
5500MHz	Pass	5.96	5.00	4.82	4.53	5.22	10.76	11.00	16.72	17.00
5580MHz	Pass	5.96	4.59	4.35	4.93	5.97	10.86	11.00	16.82	17.00
5700MHz	Pass	5.96	3.70	3.71	4.01	4.15	9.84	11.00	15.80	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.96	3.95	4.01	4.18	5.26	10.26	11.00	16.22	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.75	2.47	2.65	2.91	3.66	8.82	30.00	14.57	36.00
5745MHz	Pass	5.75	5.27	5.40	5.42	5.78	11.25	30.00	17.00	36.00
5785MHz	Pass	5.75	5.62	5.98	5.65	6.00	11.66	30.00	17.41	36.00
5825MHz	Pass	5.75	5.52	6.11	5.79	5.99	11.74	30.00	17.49	36.00
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.33	-3.98	-4.24	-4.07	-4.19	1.74	17.00	7.07	23.00
5230MHz	Pass	5.33	-3.97	-4.01	-4.06	-4.20	1.74	17.00	7.07	23.00
5270MHz	Pass	5.49	2.10	2.25	1.09	2.09	7.75	11.00	13.24	17.00
5310MHz	Pass	5.49	-0.69	-0.35	-0.66	-0.54	5.28	11.00	10.77	17.00
5510MHz	Pass	5.96	-0.97	-1.17	-1.14	-0.81	4.74	11.00	10.70	17.00

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)
5590MHz	Pass	5.96	1.87	1.89	2.11	3.03	8.07	11.00	14.03	17.00
5670MHz	Pass	5.96	1.49	2.00	1.54	1.95	7.60	11.00	13.56	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.96	1.44	1.65	1.74	2.82	7.76	11.00	13.72	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.75	-1.56	-1.27	-1.21	0.02	4.91	30.00	10.66	36.00
5755MHz	Pass	5.75	3.95	3.94	3.84	4.31	9.82	30.00	15.57	36.00
5795MHz	Pass	5.75	4.48	4.44	4.44	4.72	10.36	30.00	16.11	36.00
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.33	-6.83	-6.98	-7.17	-6.94	-1.18	17.00	4.15	23.00
5290MHz	Pass	5.49	-4.17	-4.11	-4.00	-4.38	1.74	11.00	7.23	17.00
5530MHz	Pass	5.96	-4.18	-4.06	-3.96	-3.85	1.89	11.00	7.85	17.00
5610MHz	Pass	5.96	-1.19	-1.05	-0.71	0.30	5.18	11.00	11.14	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.96	-1.77	-1.59	-1.54	-0.62	4.46	11.00	10.42	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.75	-5.20	-5.04	-4.72	-3.88	1.18	30.00	6.93	36.00
5775MHz	Pass	5.75	-1.92	-1.67	-1.65	-1.38	4.21	30.00	9.96	36.00
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.33	-6.92	-6.73	-7.02	-7.03	-1.14	17.00	4.19	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	5.49	-6.79	-6.79	-7.02	-7.06	-1.14	11.00	4.35	17.00
5570MHz	Pass	5.96	-6.62	-6.56	-6.51	-6.20	-0.69	11.00	5.27	17.00

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;

DG = Directional Gain

For 802.11a

Directional gain = $GN + 10 \cdot \log(4/1)$

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
1	5.33	5.49	5.96	5.75
2	5.33	5.49	5.96	5.75
3	5.33	5.49	5.96	5.75
4	5.33	5.49	5.96	5.75
Directional Gain (dBi)	11.35	11.51	11.98	11.77

For 802.11ax

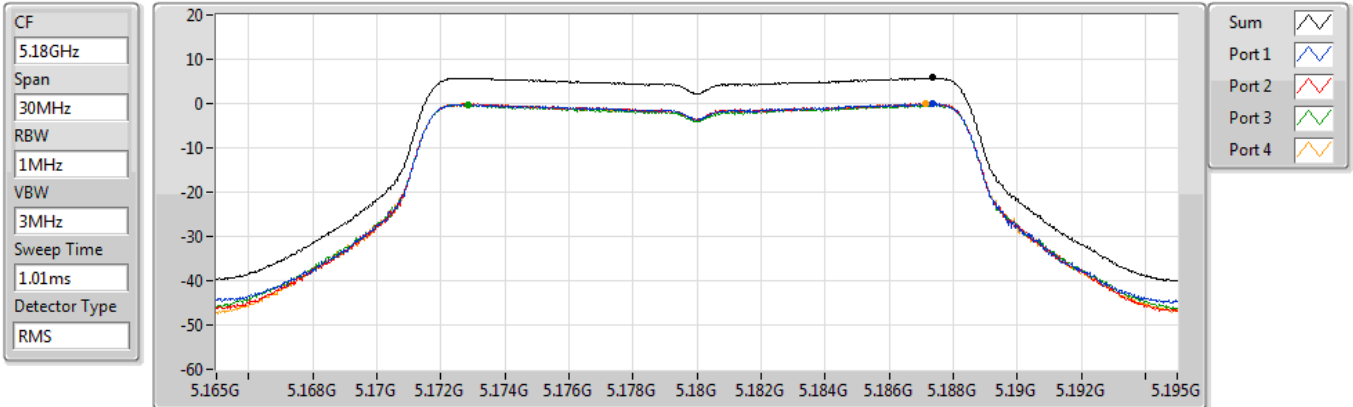
Directional Gain = $10 \log [(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
1	5.33	5.49	5.96	5.75
2	5.33	5.49	5.96	5.75
3	5.33	5.49	5.96	5.75
4	5.33	5.49	5.96	5.75
Directional Gain (dBi)	5.33	5.49	5.96	5.75

802.11a_Nss1,(6Mbps)_4TX

PSD

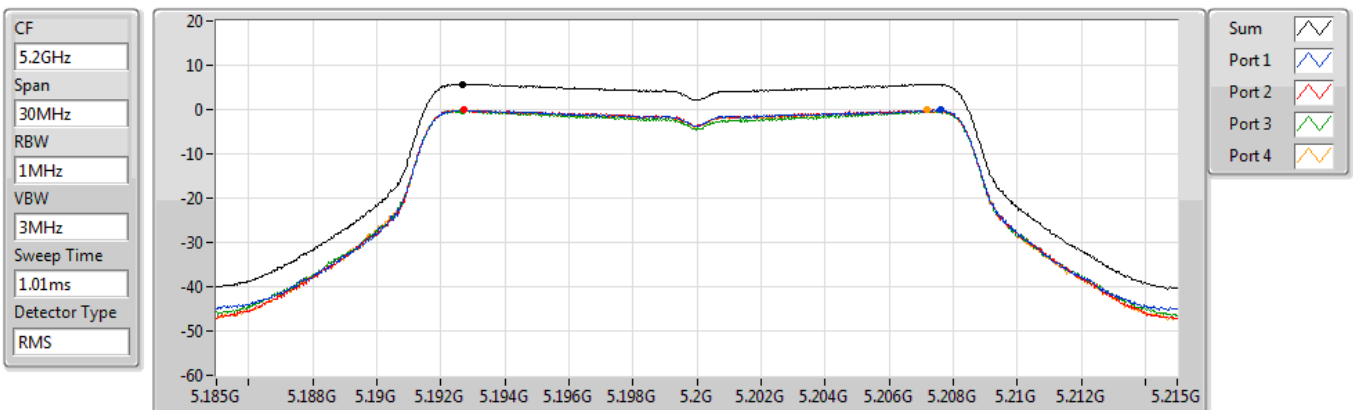
5180MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

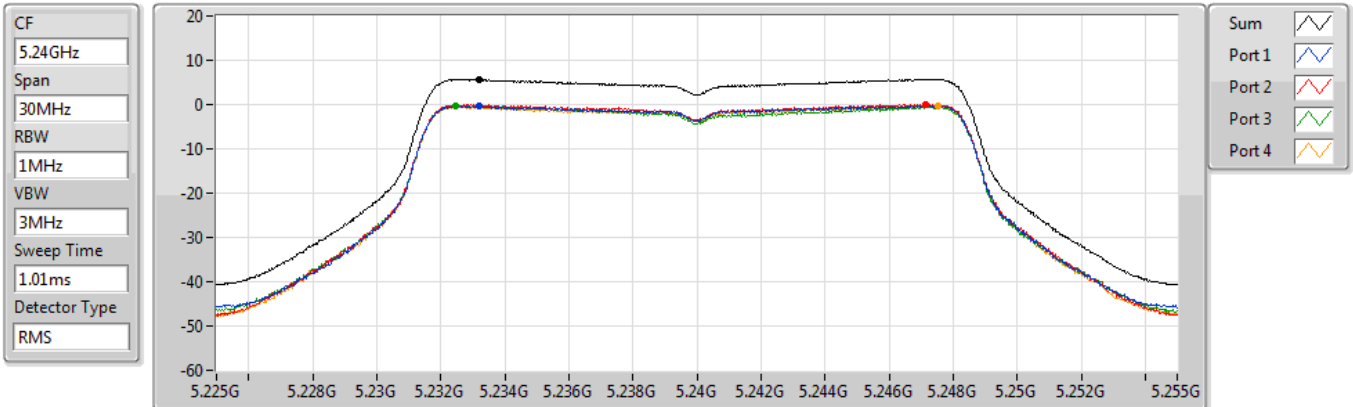
5200MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

5240MHz

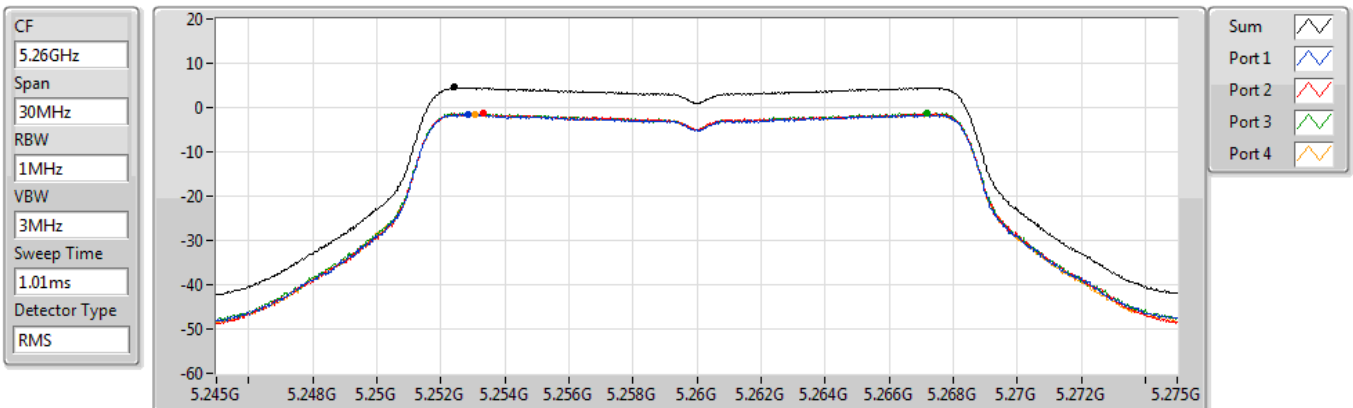


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.71	5.71	-0.27	0.13	-0.16	-0.17

802.11a_Nss1,(6Mbps)_4TX

PSD

5260MHz

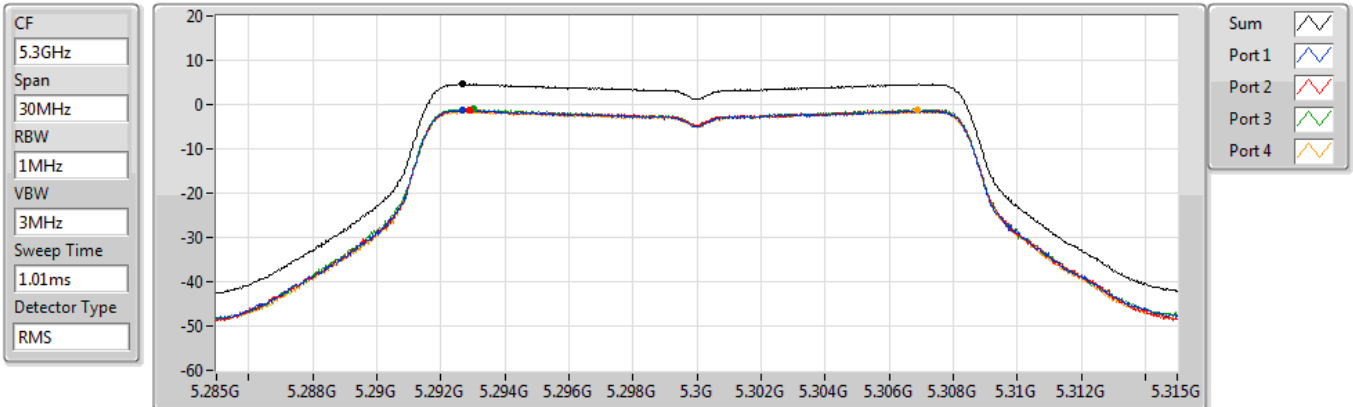


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.55	4.55	-1.48	-1.32	-1.18	-1.47

802.11a_Nss1,(6Mbps)_4TX

PSD

5300MHz

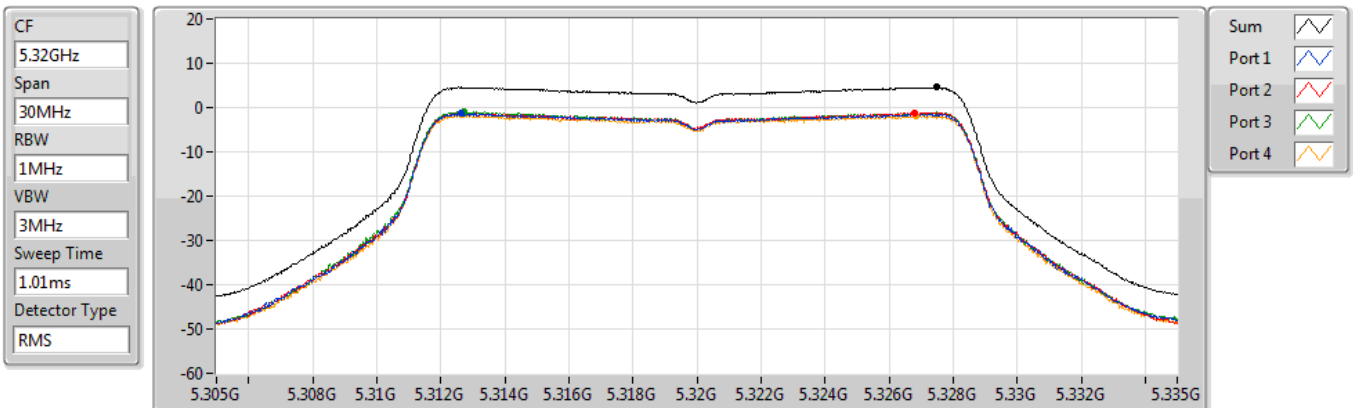


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.65	4.65	-1.30	-1.31	-1.07	-1.40

802.11a_Nss1,(6Mbps)_4TX

PSD

5320MHz

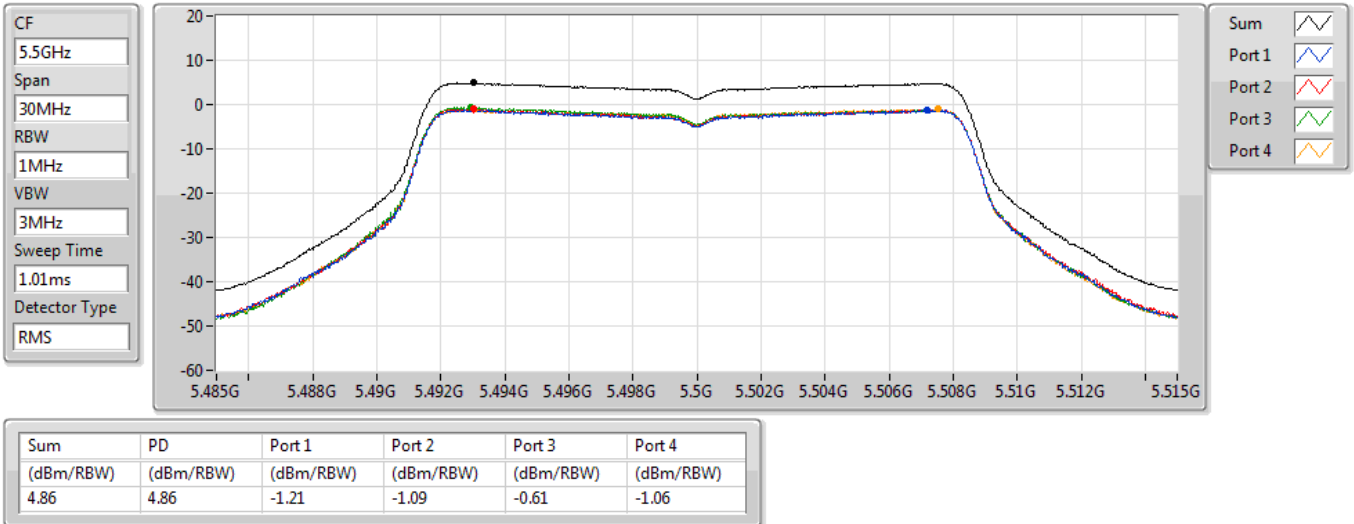


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.60	4.60	-1.34	-1.18	-1.04	-1.77

802.11a_Nss1,(6Mbps)_4TX

PSD

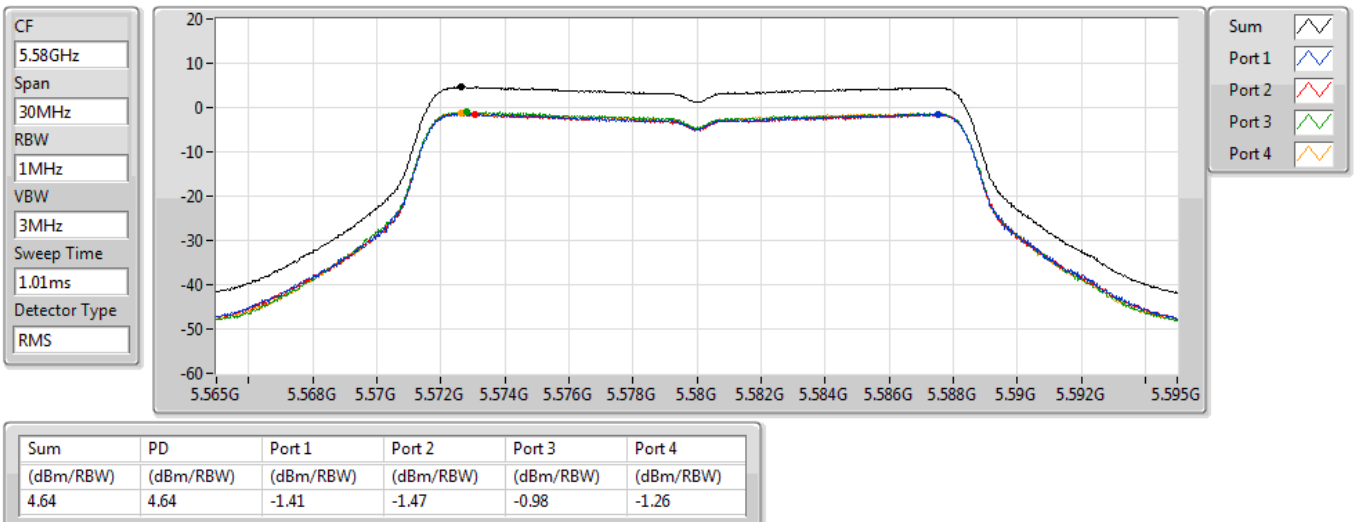
5500MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

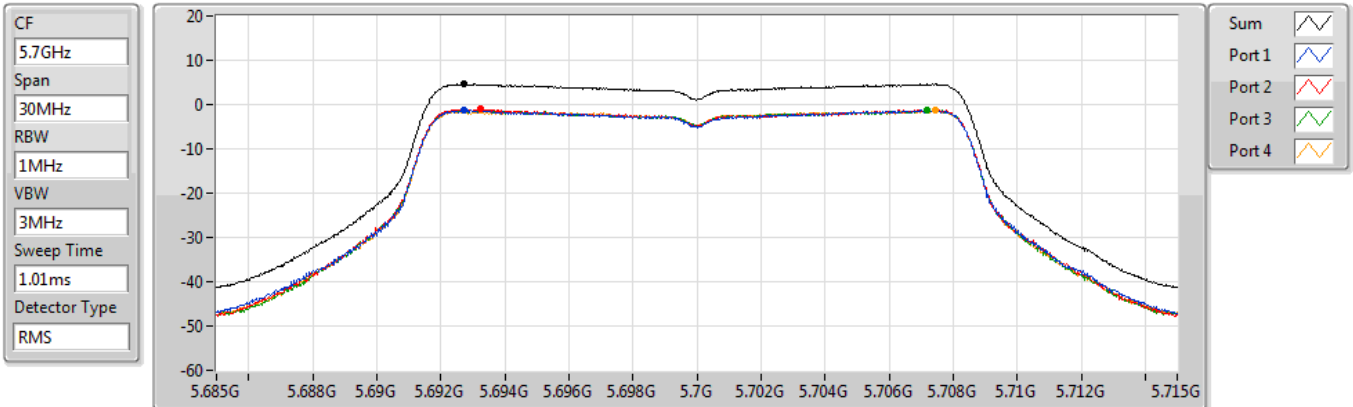
5580MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

5700MHz

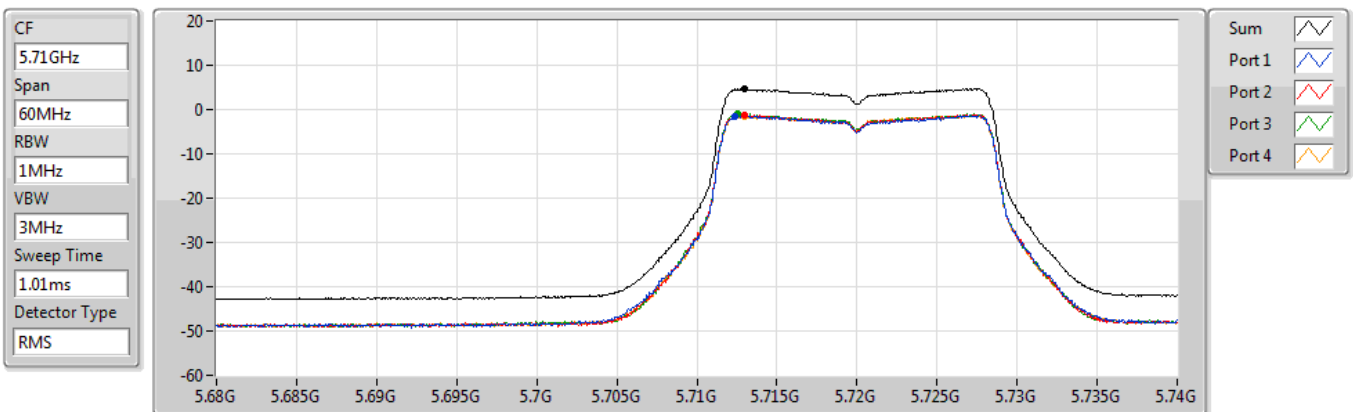


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.61	4.61	-1.30	-1.04	-1.28	-1.31

802.11a_Nss1,(6Mbps)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

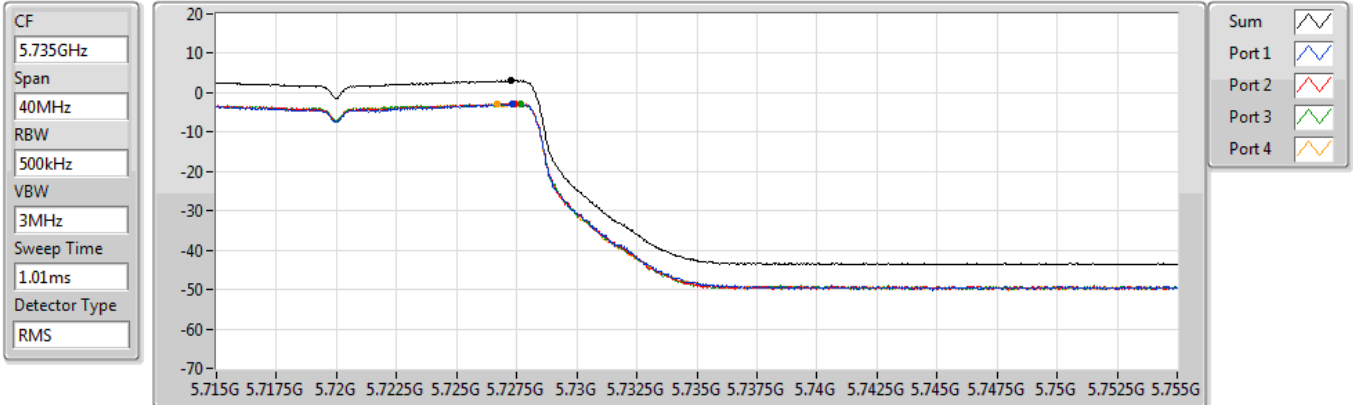


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.60	4.60	-1.46	-1.22	-1.09	-1.45

802.11a_Nss1,(6Mbps)_4TX

PSD

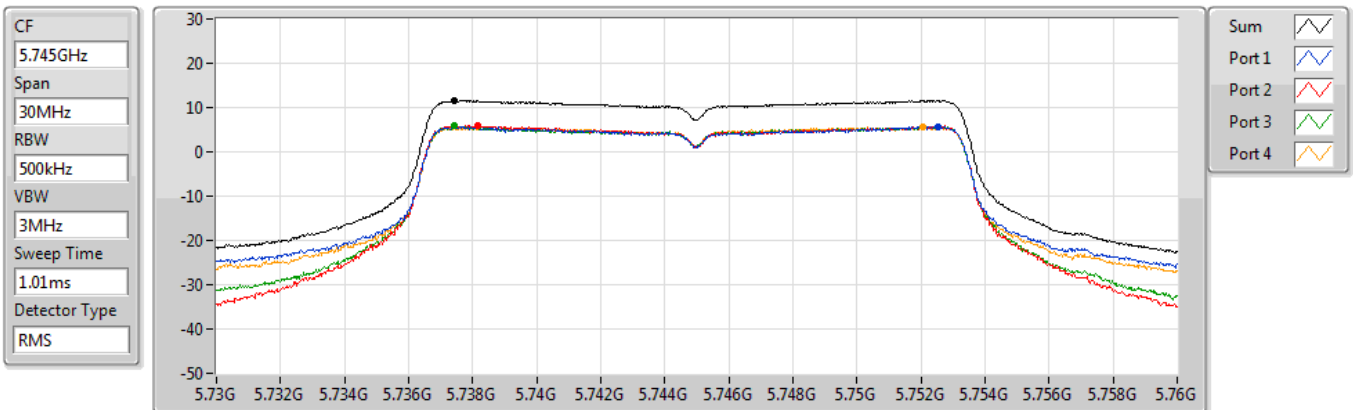
5720MHz Straddle 5.725-5.85GHz



802.11a_Nss1,(6Mbps)_4TX

PSD

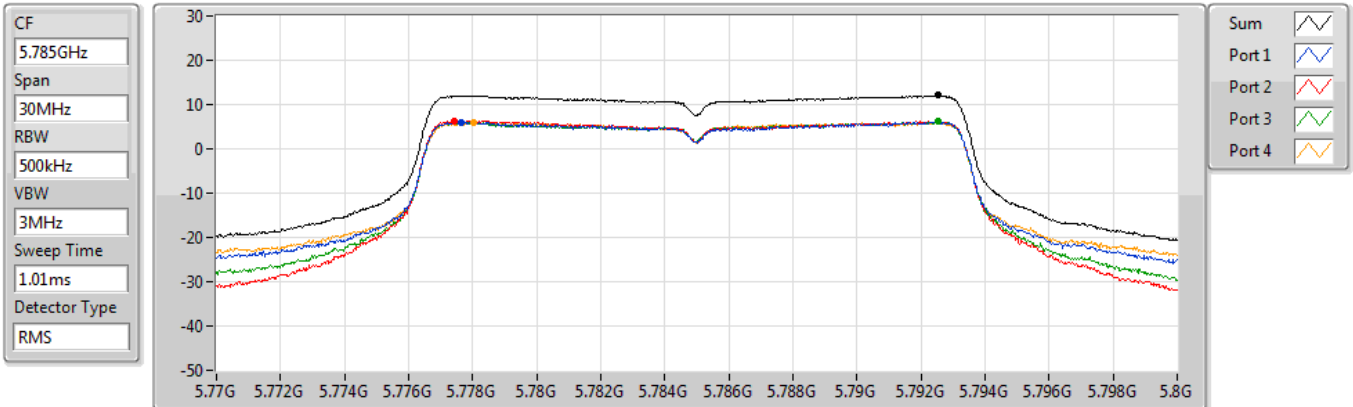
5745MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

5785MHz

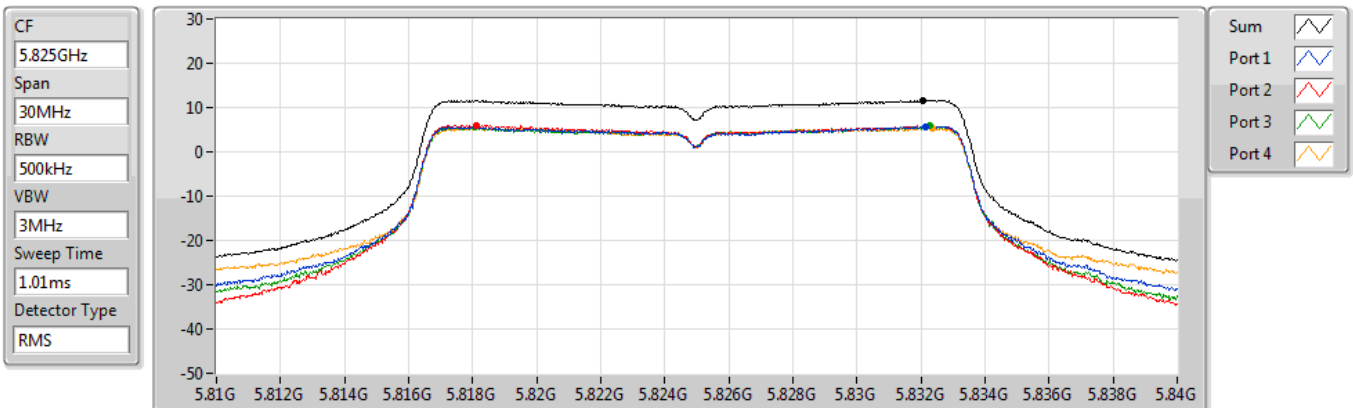


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.07	12.07	6.07	6.31	6.36	5.98

802.11a_Nss1,(6Mbps)_4TX

PSD

5825MHz

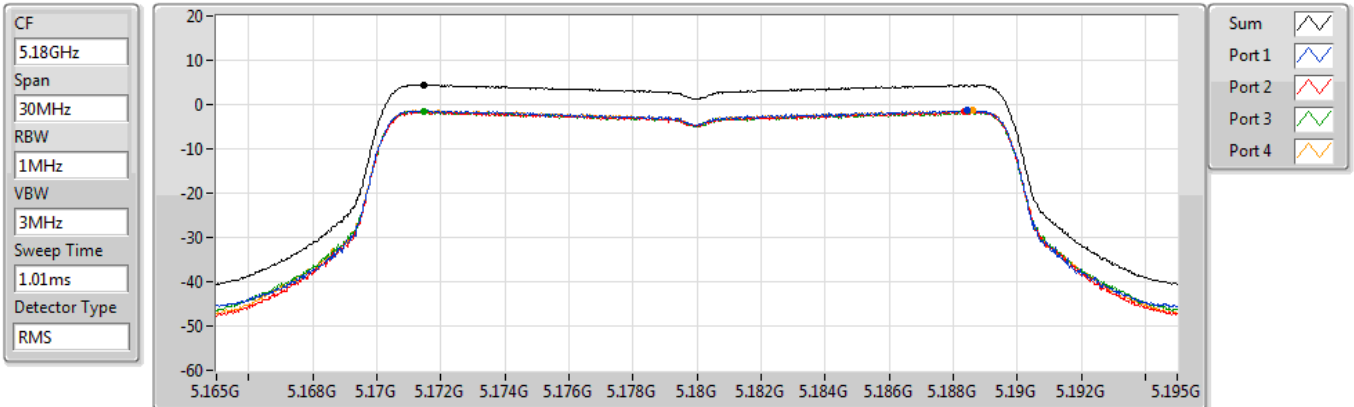


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.63	11.63	5.78	6.06	5.83	5.42

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

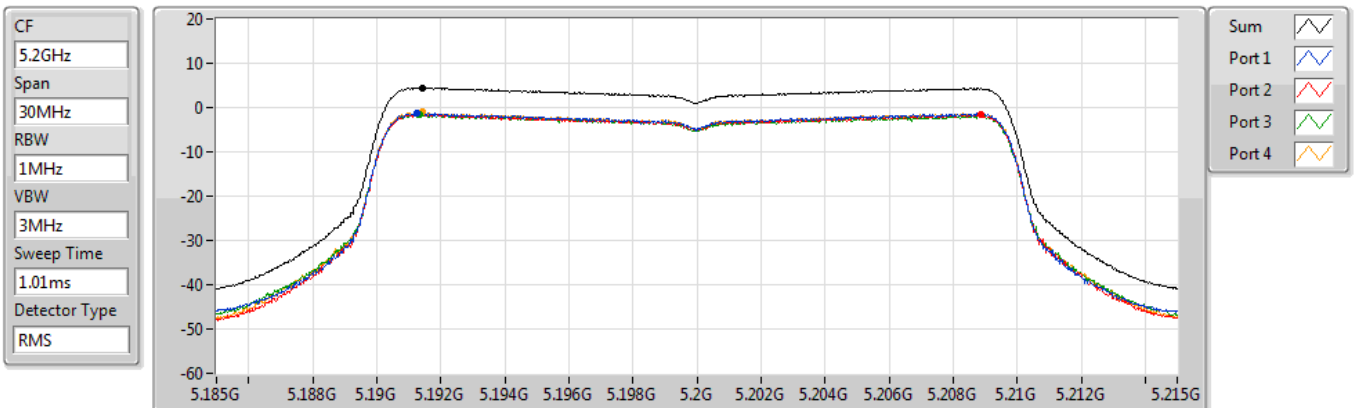
5180MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

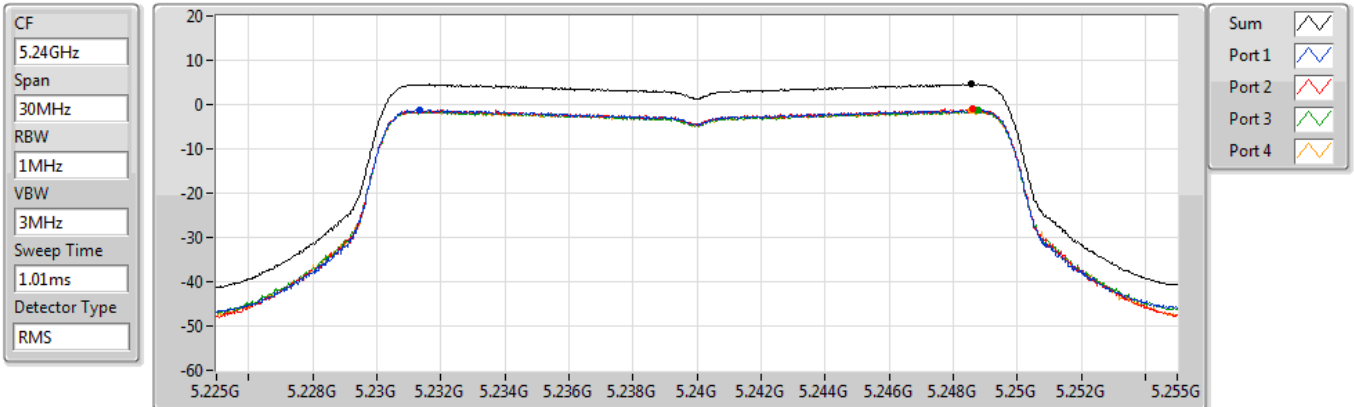
5200MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

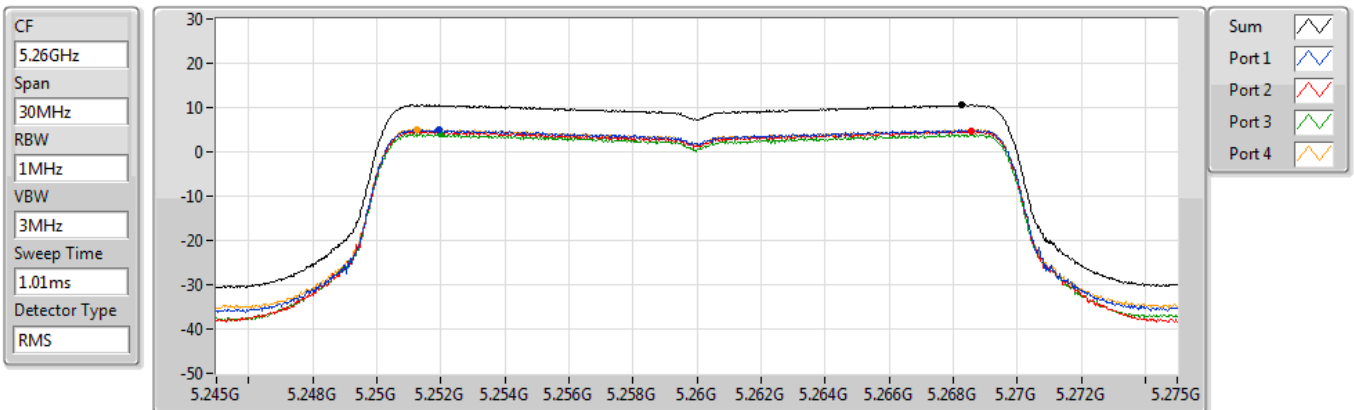
5240MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

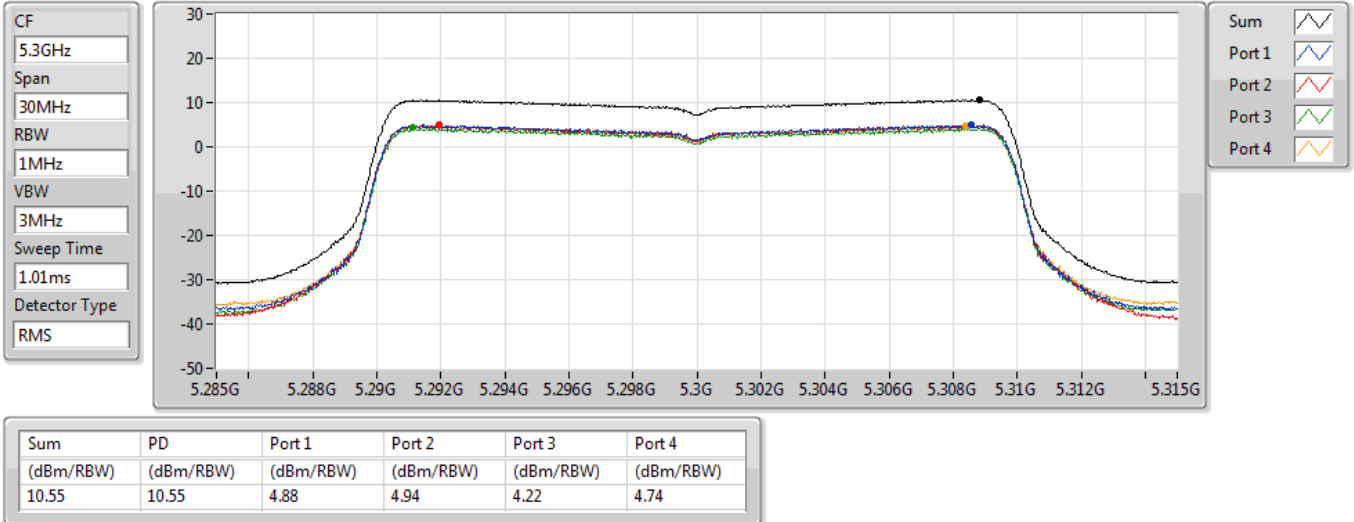
5260MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

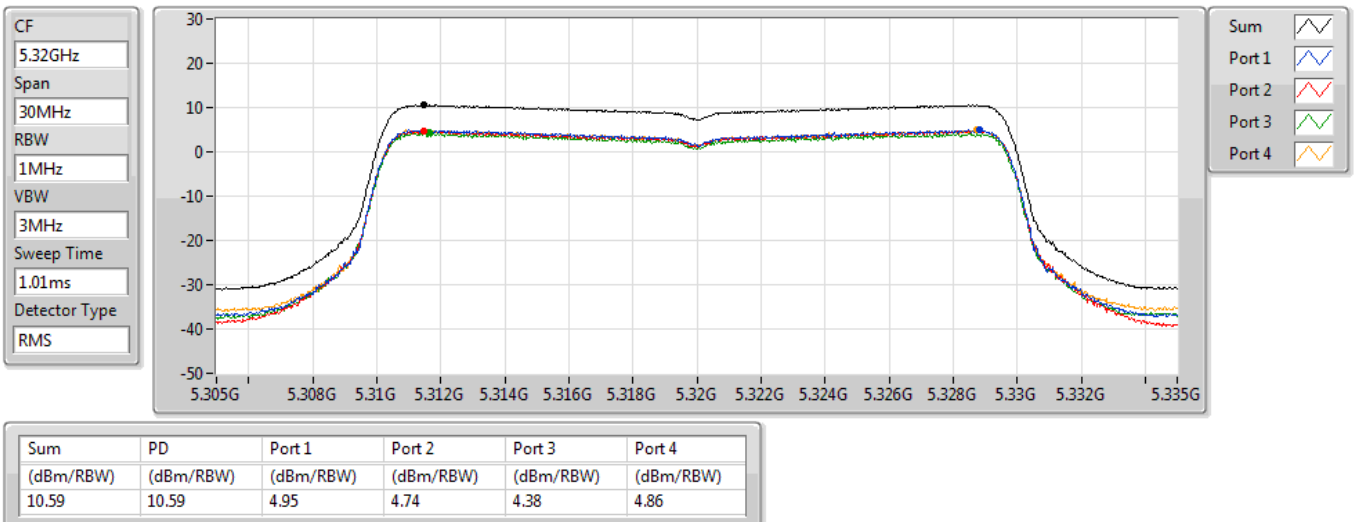
5300MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

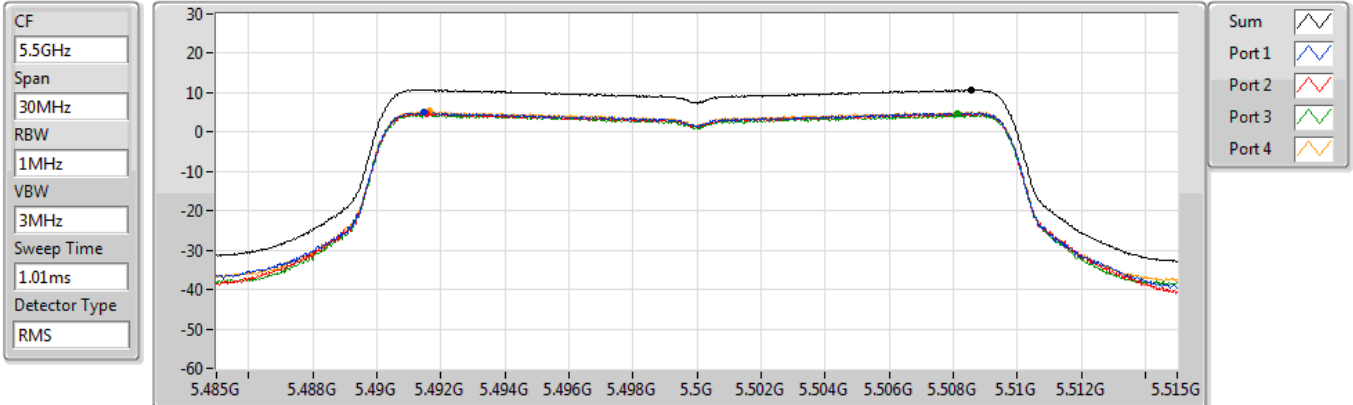
5320MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

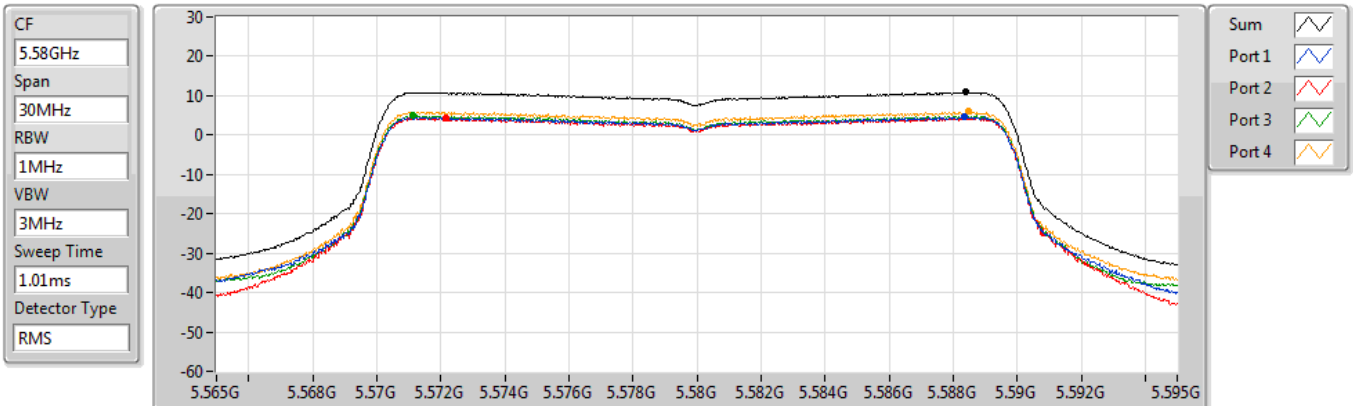
5500MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

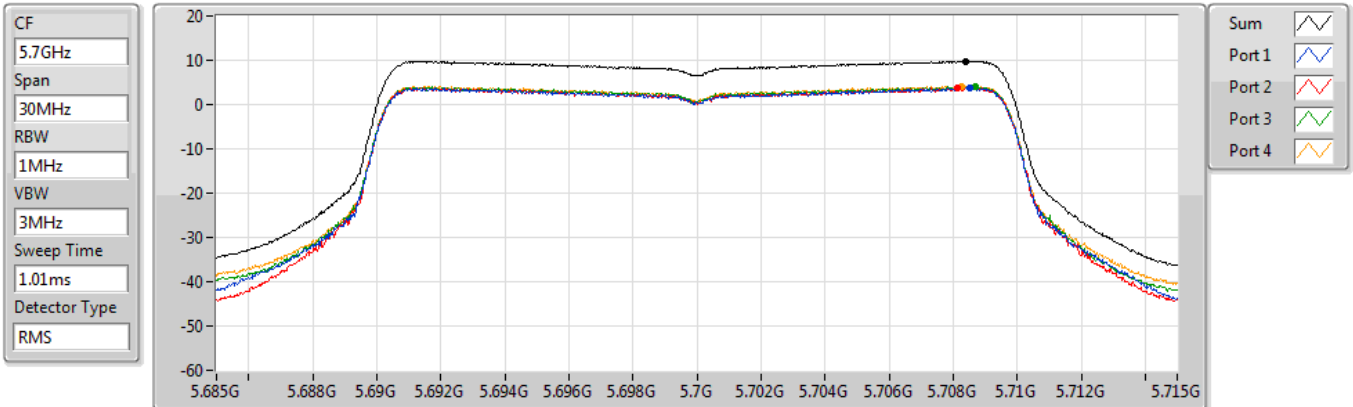
5580MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

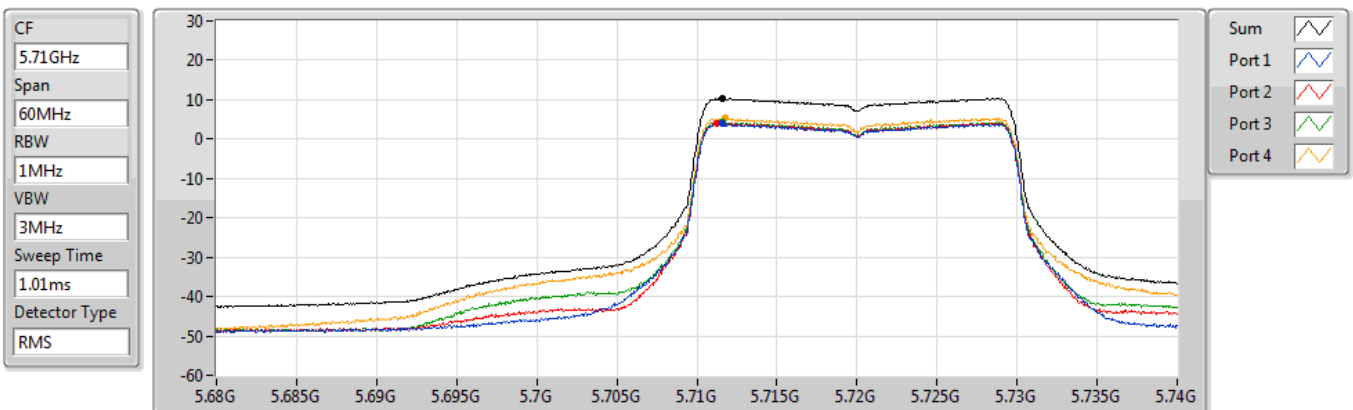
5700MHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

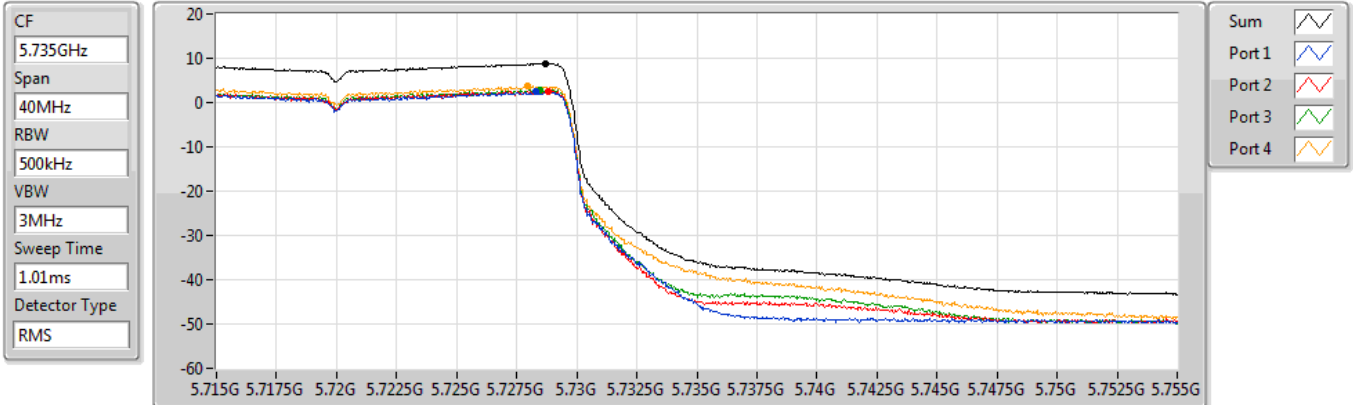
5720MHz Straddle 5.47-5.725GHz



802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

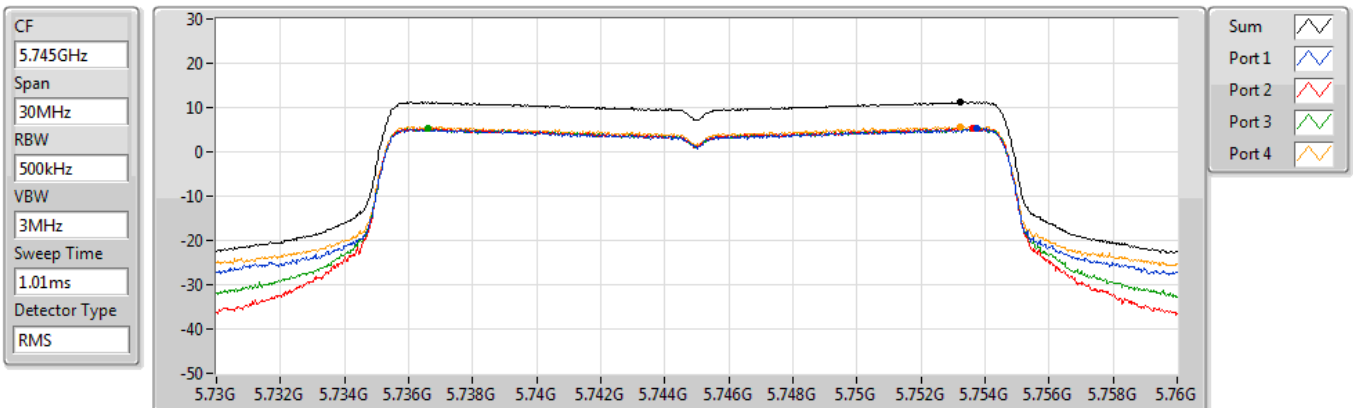


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.82	8.82	2.47	2.65	2.91	3.66

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

5745MHz

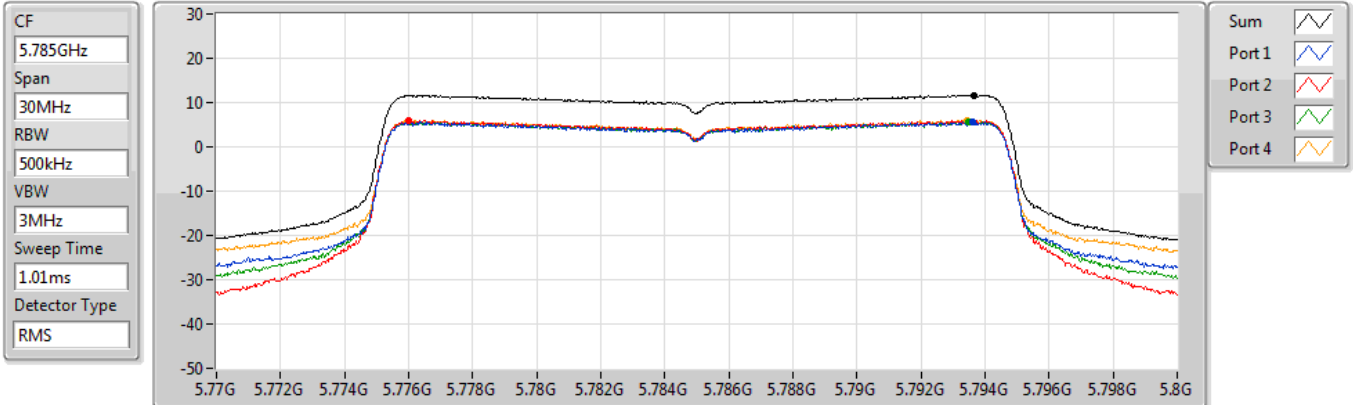


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.25	11.25	5.27	5.40	5.42	5.78

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

5785MHz

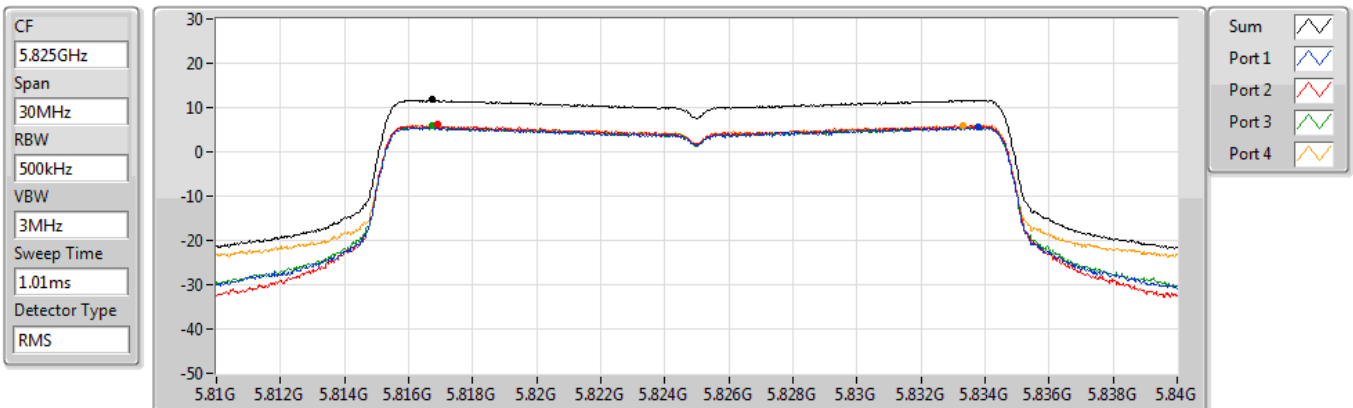


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.66	11.66	5.62	5.98	5.65	6.00

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

5825MHz

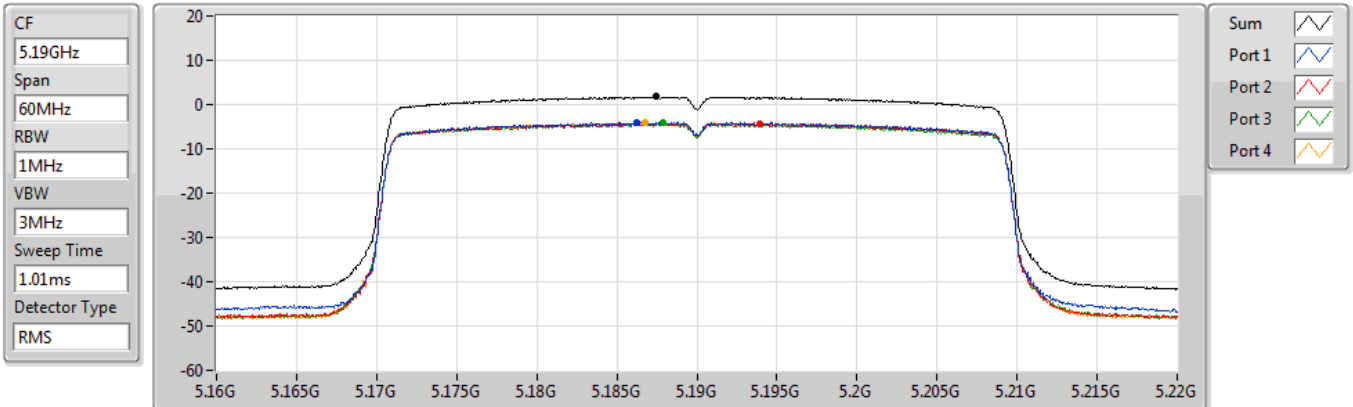


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.74	11.74	5.52	6.11	5.79	5.99

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5190MHz

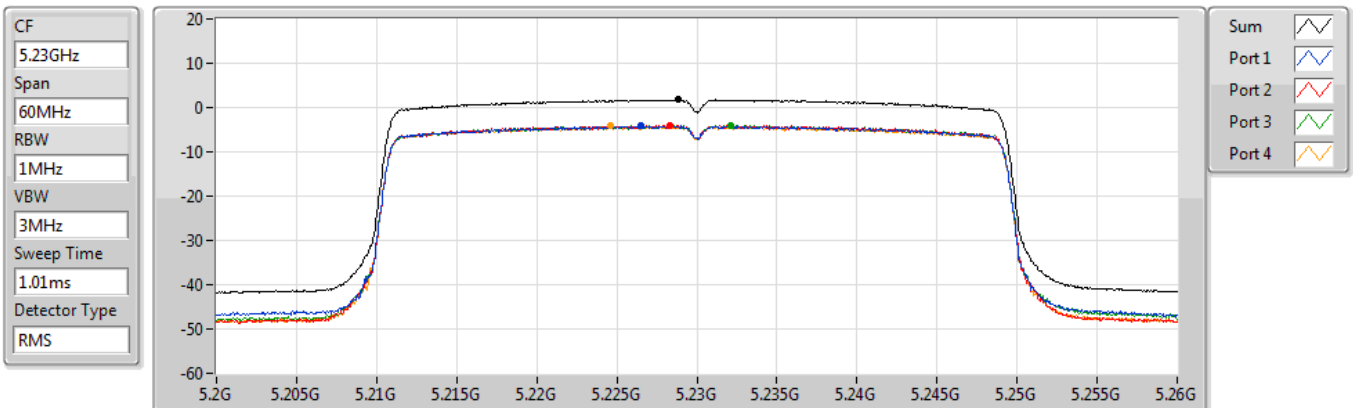


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.74	1.74	-3.98	-4.24	-4.07	-4.19

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5230MHz

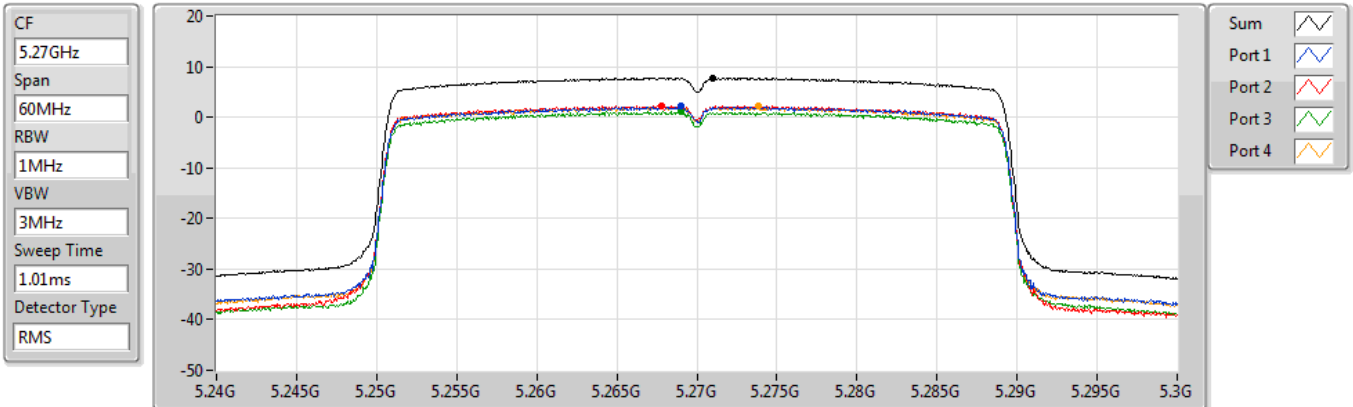


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.74	1.74	-3.97	-4.01	-4.06	-4.20

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5270MHz

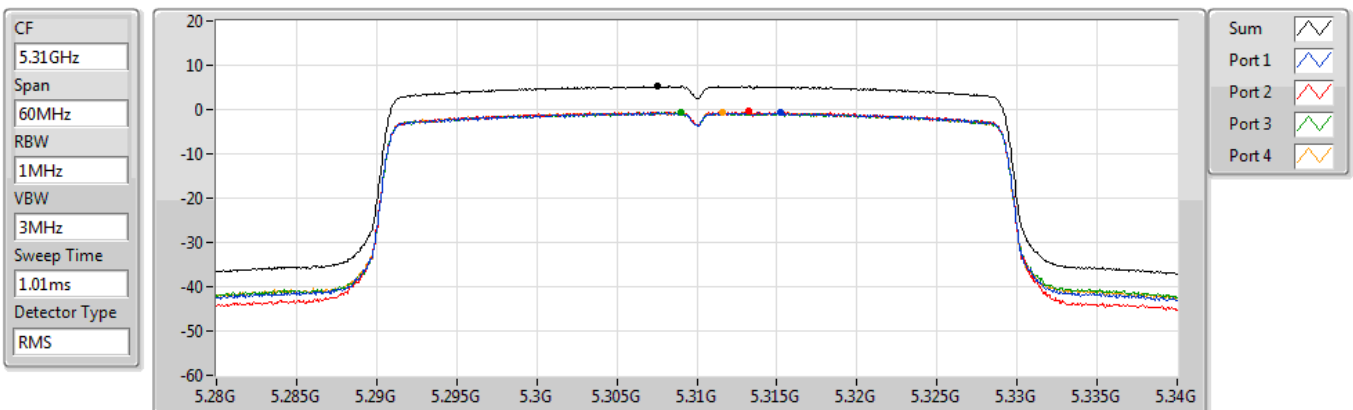


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.75	7.75	2.10	2.25	1.09	2.09

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5310MHz

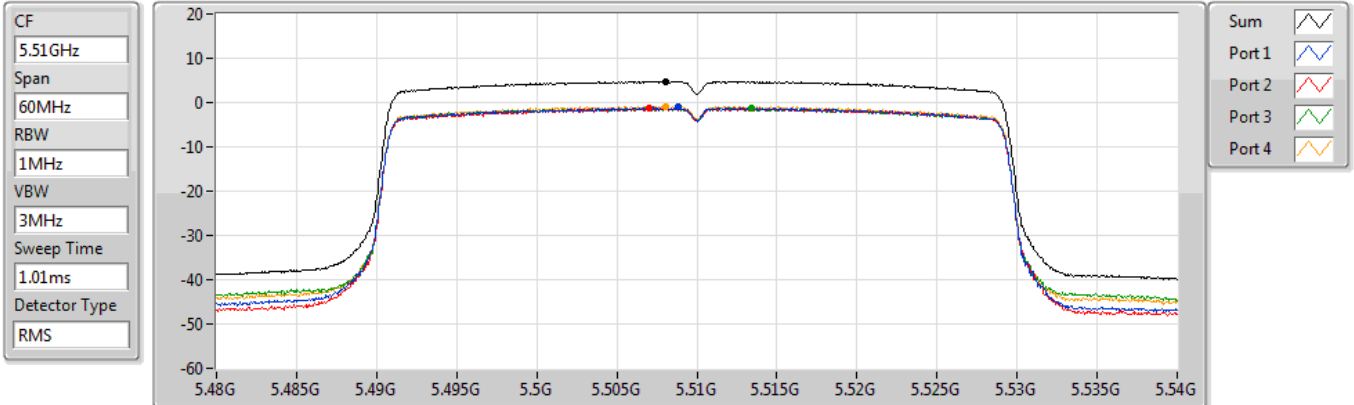


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.28	5.28	-0.69	-0.35	-0.66	-0.54

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

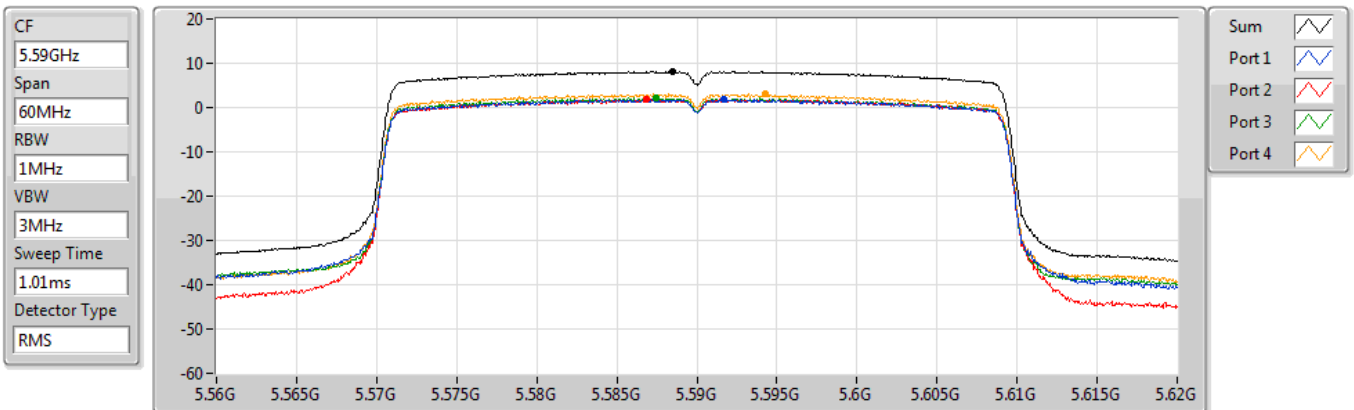
5510MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

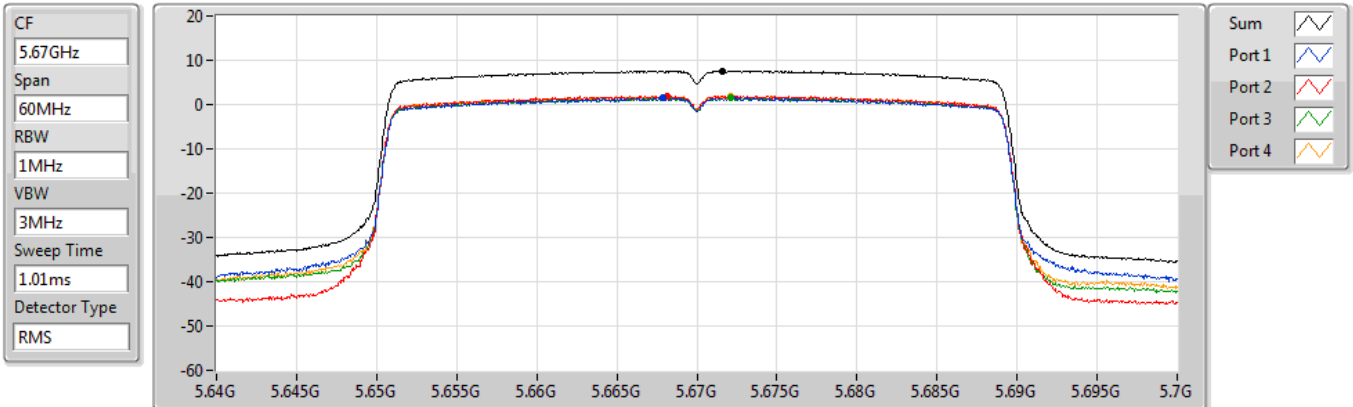
5590MHz



802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5670MHz

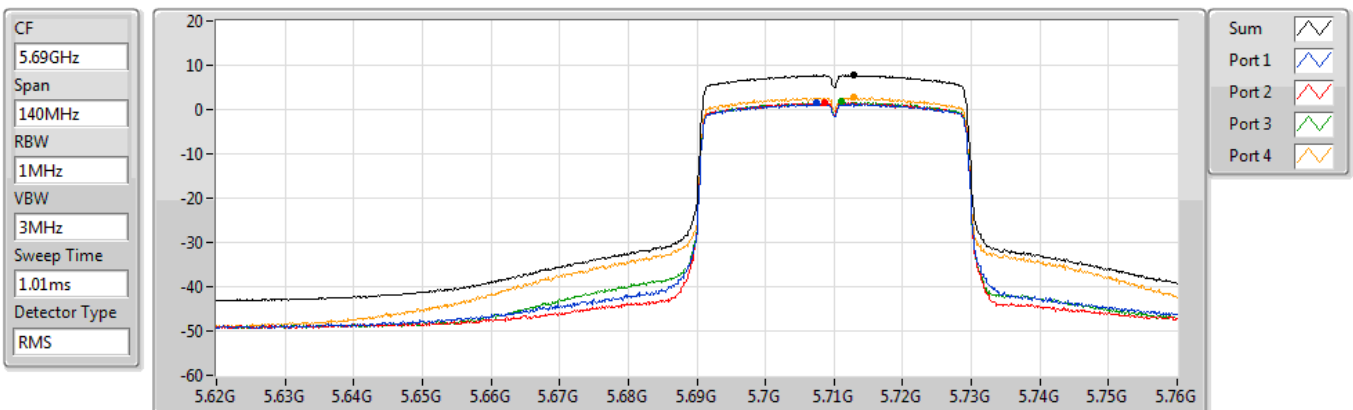


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.60	7.60	1.49	2.00	1.54	1.95

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

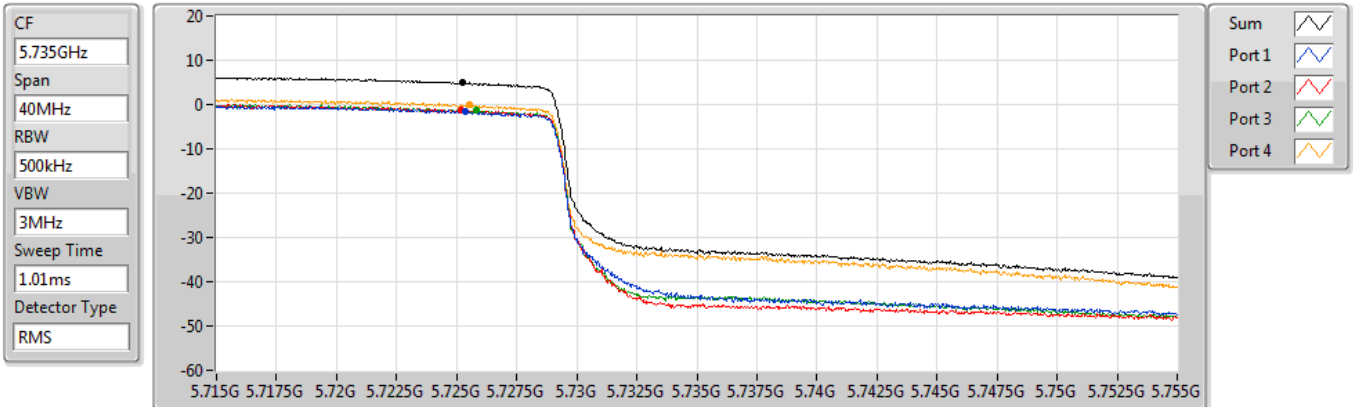


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.76	7.76	1.44	1.65	1.74	2.82

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

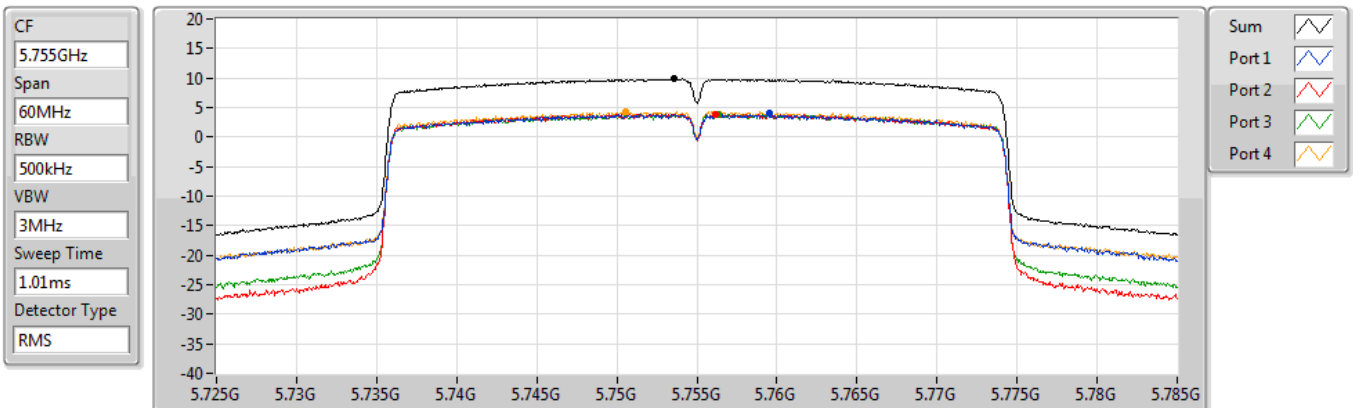


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.91	4.91	-1.56	-1.27	-1.21	0.02

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5755MHz

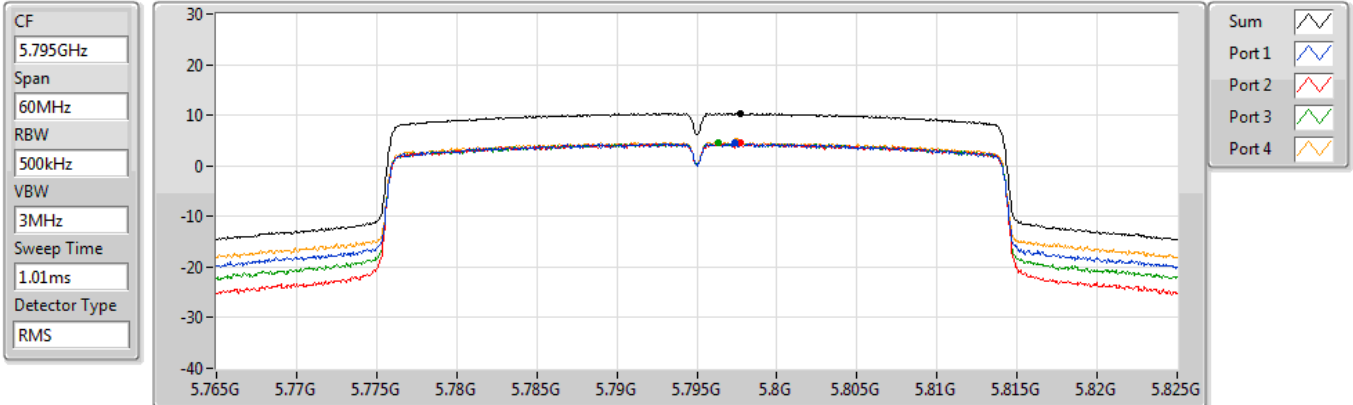


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.82	9.82	3.95	3.94	3.84	4.31

802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5795MHz

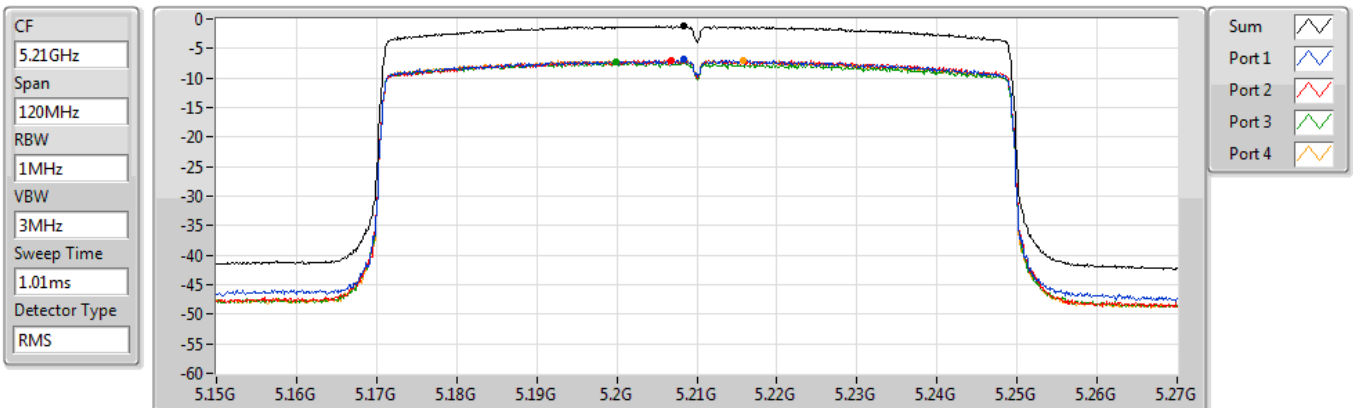


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.36	10.36	4.48	4.44	4.44	4.72

802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

5210MHz

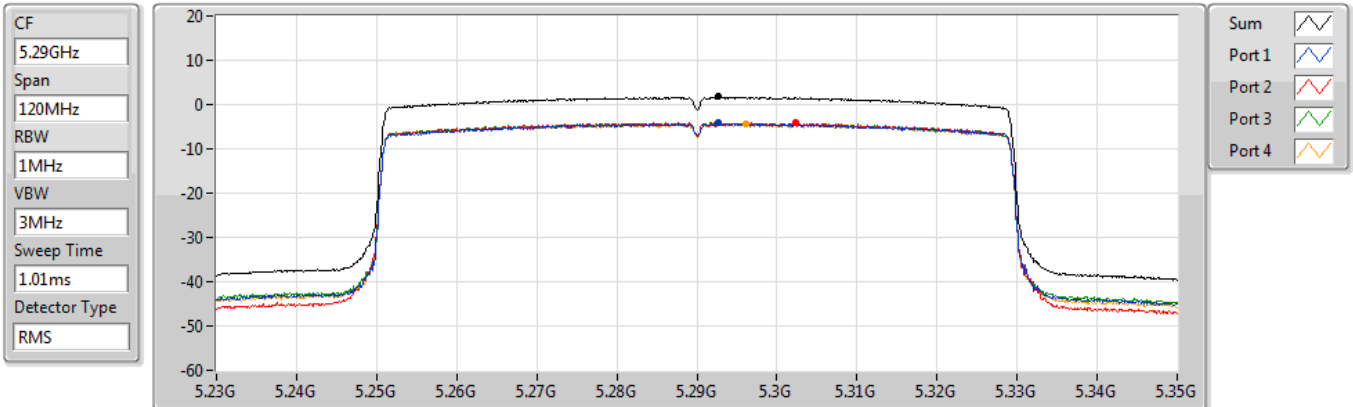


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.18	-1.18	-6.83	-6.98	-7.17	-6.94

802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

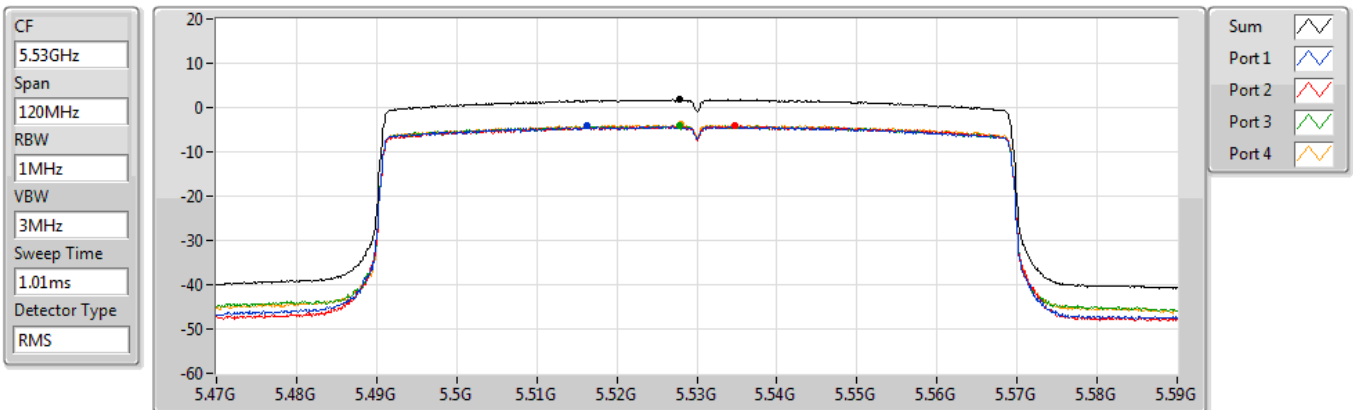
5290MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

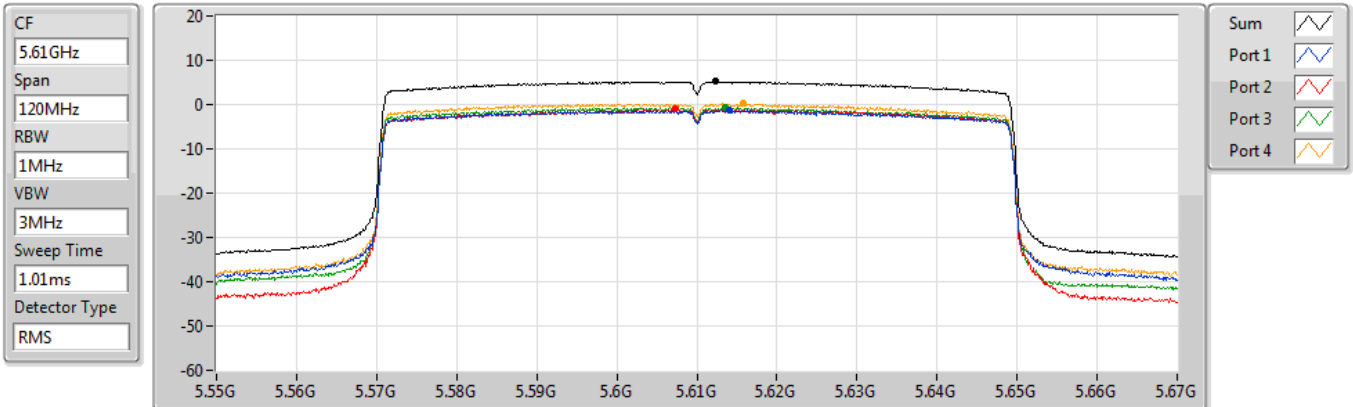
5530MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

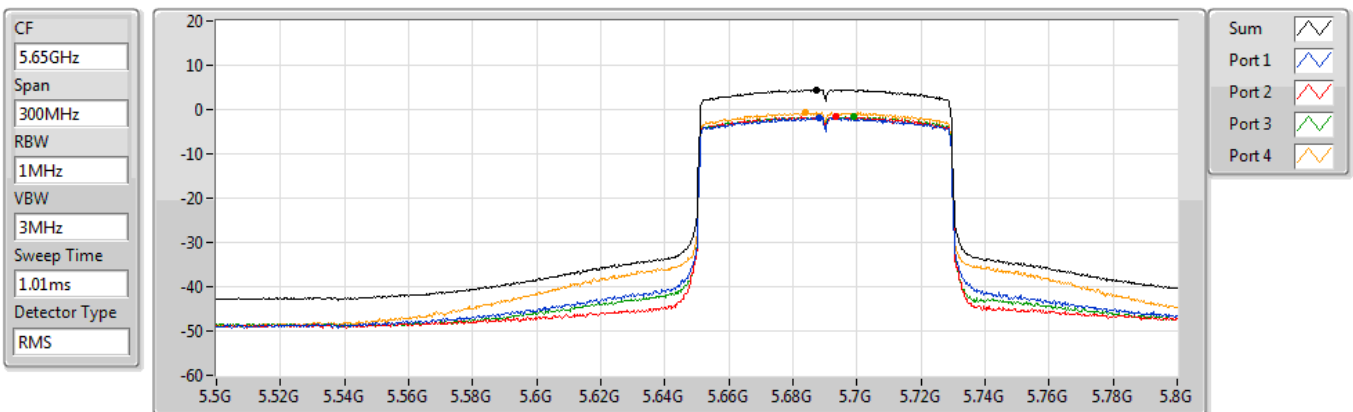
5610MHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

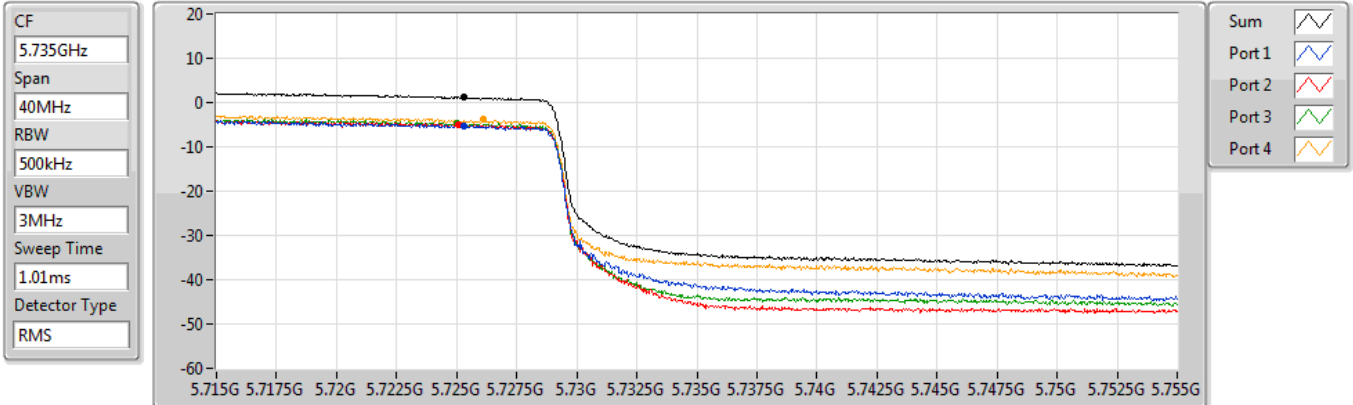
5690MHz Straddle 5.47-5.725GHz



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

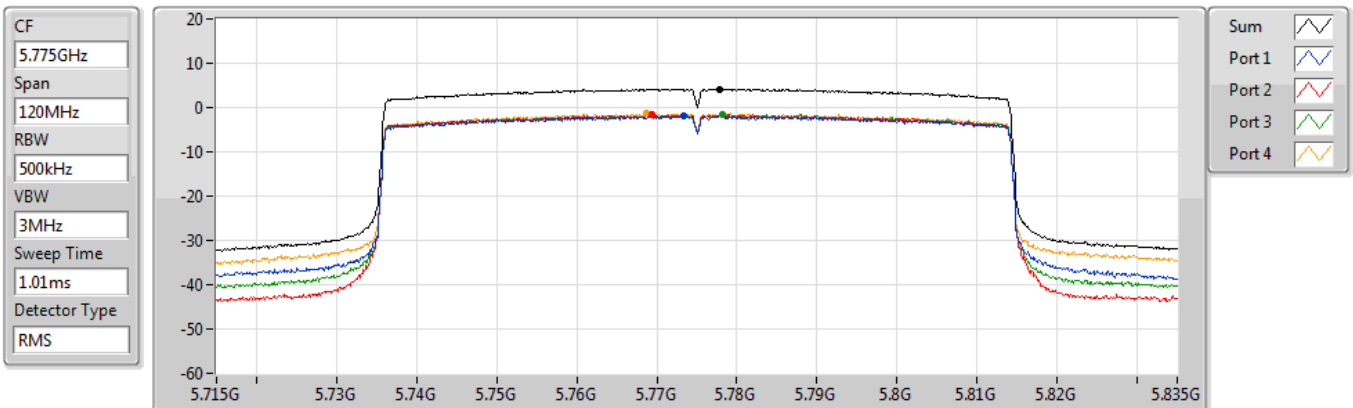


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.18	1.18	-5.20	-5.04	-4.72	-3.88

802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

5775MHz

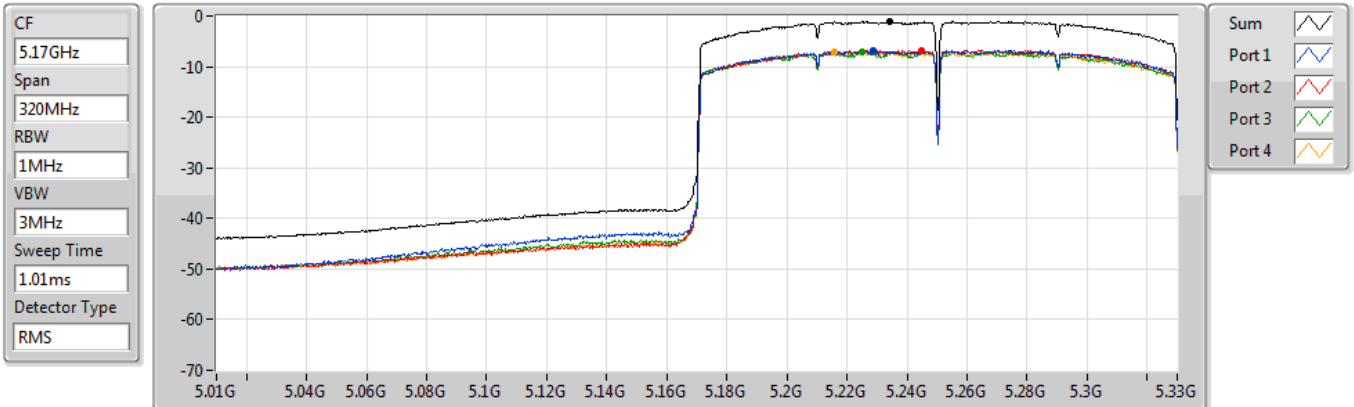


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.21	4.21	-1.92	-1.67	-1.65	-1.38

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

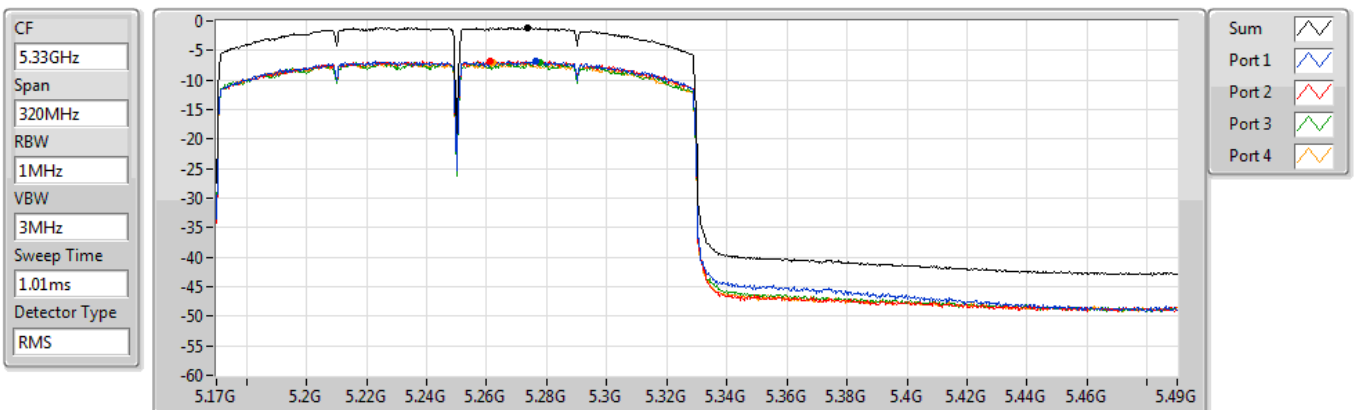


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.14	-1.14	-6.92	-6.73	-7.02	-7.03

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

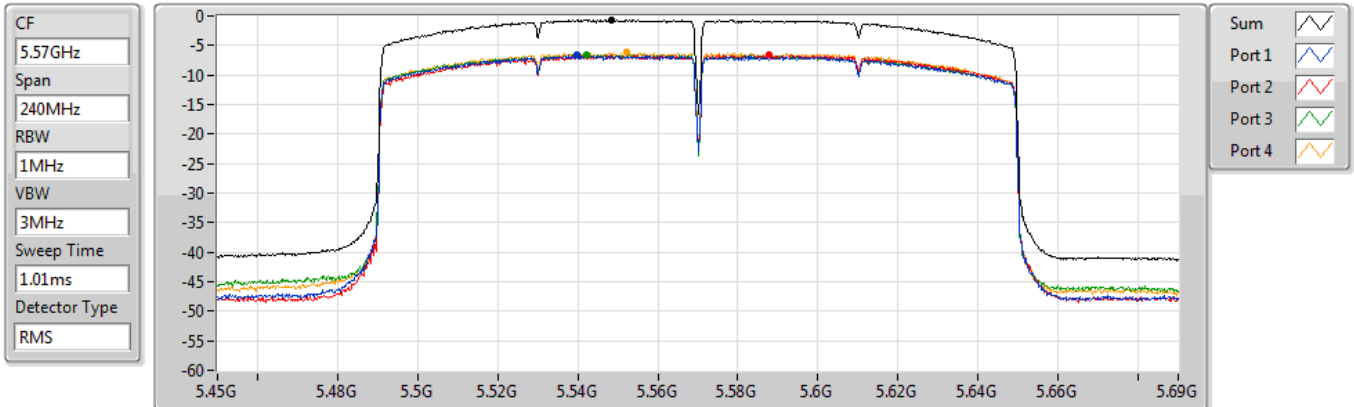


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.14	-1.14	-6.79	-6.79	-7.02	-7.06

802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

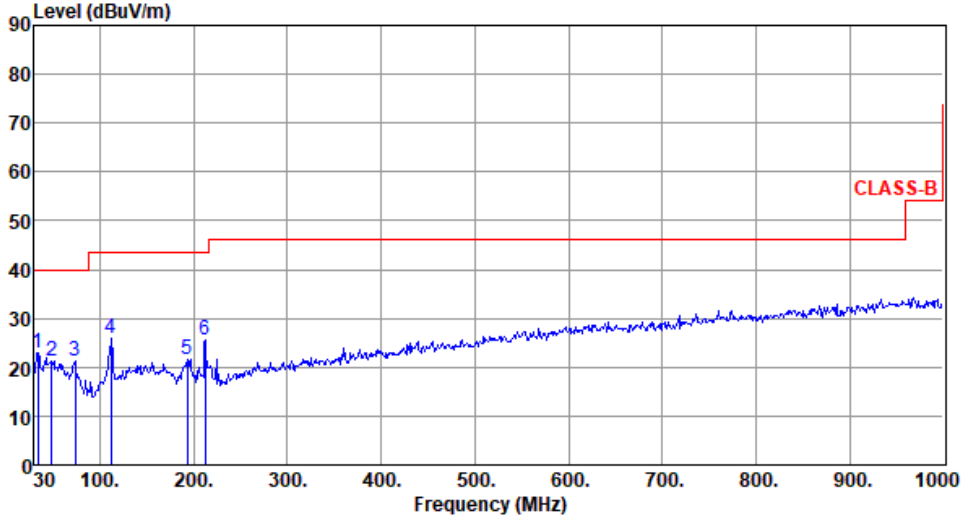
5570MHz



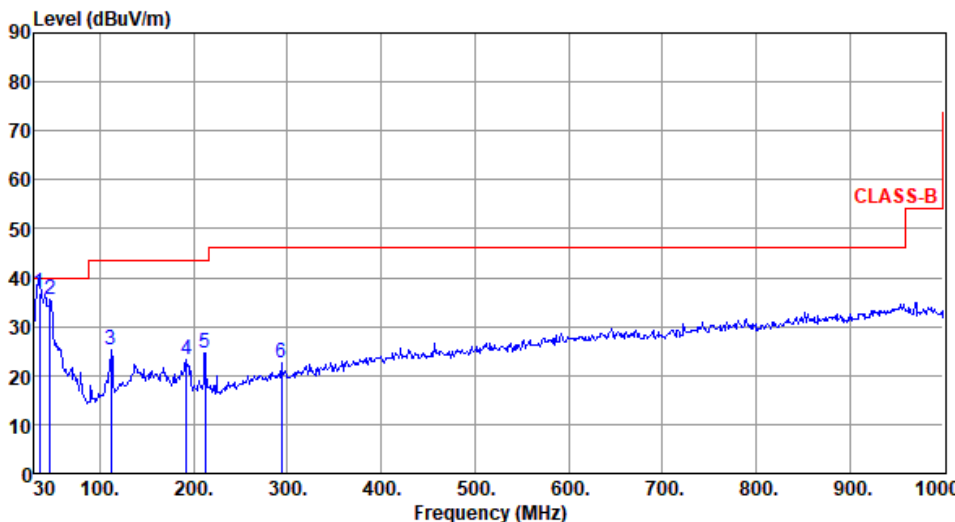
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-0.69	-0.69	-6.62	-6.56	-6.51	-6.20



Unwanted Emissions (Below 1GHz)

Modulation	ax HE80		Test Freq. (MHz)		5610																																																																																														
Polarization	Horizontal																																																																																																		
Test By :Akun Chung- Temperature(°C):25 Humidity(%):67																																																																																																			
Level (dBuV/m)  Frequency (MHz) <table><tr><td></td><td>Freq.</td><td>Emission</td><td>Limit</td><td>Margin</td><td>SA</td><td>Factor</td><td>Remark</td><td>ANT</td><td>Turn</td></tr><tr><td></td><td>MHz</td><td>level</td><td></td><td></td><td>reading</td><td></td><td></td><td>High</td><td>Table</td></tr><tr><td></td><td></td><td>dBuV/m</td><td>dBuV/m</td><td>dB</td><td>dBuV</td><td>dB/m</td><td></td><td>cm</td><td>deg</td></tr><tr><td>1</td><td>33.88</td><td>23.06</td><td>40.00</td><td>-16.94</td><td>32.61</td><td>-9.55</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>48.43</td><td>21.40</td><td>40.00</td><td>-18.60</td><td>29.56</td><td>-8.16</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>73.65</td><td>21.17</td><td>40.00</td><td>-18.83</td><td>33.28</td><td>-12.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>111.48</td><td>25.99</td><td>43.50</td><td>-17.51</td><td>37.73</td><td>-11.74</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>192.96</td><td>21.69</td><td>43.50</td><td>-21.81</td><td>33.28</td><td>-11.59</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>212.36</td><td>25.42</td><td>43.50</td><td>-18.08</td><td>37.36</td><td>-11.94</td><td>Peak</td><td>---</td><td>---</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	33.88	23.06	40.00	-16.94	32.61	-9.55	Peak	---	---	2	48.43	21.40	40.00	-18.60	29.56	-8.16	Peak	---	---	3	73.65	21.17	40.00	-18.83	33.28	-12.11	Peak	---	---	4	111.48	25.99	43.50	-17.51	37.73	-11.74	Peak	---	---	5	192.96	21.69	43.50	-21.81	33.28	-11.59	Peak	---	---	6	212.36	25.42	43.50	-18.08	37.36	-11.94	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
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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). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																																																			



Modulation	ax HE80	Test Freq. (MHz)	5610																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung- Temperature(°C):25 Humidity(%):67																																																																									
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Modulation	ax HE40	Test Freq. (MHz)	5795																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung- Temperature(°C):25 Humidity(%):67																																																																									
Level (dBuV/m) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>32.91</td><td>23.47</td><td>40.00</td><td>-16.53</td><td>33.19</td><td>-9.72</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>45.52</td><td>21.42</td><td>40.00</td><td>-18.58</td><td>29.63</td><td>-8.21</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>111.48</td><td>24.39</td><td>43.50</td><td>-19.11</td><td>36.13</td><td>-11.74</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>192.96</td><td>23.22</td><td>43.50</td><td>-20.28</td><td>34.81</td><td>-11.59</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>212.36</td><td>25.24</td><td>43.50</td><td>-18.26</td><td>37.18</td><td>-11.94</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>224.00</td><td>22.01</td><td>46.00</td><td>-23.99</td><td>34.09</td><td>-12.08</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	32.91	23.47	40.00	-16.53	33.19	-9.72	Peak	---	---	2	45.52	21.42	40.00	-18.58	29.63	-8.21	Peak	---	---	3	111.48	24.39	43.50	-19.11	36.13	-11.74	Peak	---	---	4	192.96	23.22	43.50	-20.28	34.81	-11.59	Peak	---	---	5	212.36	25.24	43.50	-18.26	37.18	-11.94	Peak	---	---	6	224.00	22.01	46.00	-23.99	34.09	-12.08	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 HE40	Test Freq. (MHz)	5795
Polarization	Vertical		
Test By :Akun Chung- Temperature(°C):25 Humidity(%):67			
Level (dBuV/m) </			



Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):24 Humidity(%):64									
Level (dBUV/m) Frequency (MHz)									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	4988.00	42.10	54.00	-11.90	43.21	-1.11	Average	111	30
2	4988.00	53.43	74.00	-20.57	54.54	-1.11	Peak	111	30
3	5150.00	42.76	54.00	-11.24	42.96	-0.20	Average	111	30
4	5150.00	55.46	74.00	-18.54	55.66	-0.20	Peak	111	30
5 *	5180.00	95.90			96.15	-0.25	Average	111	30
6 *	5180.00	105.80			106.05	-0.25	Peak	111	30
7	20720.00	45.47	54.00	-8.53	43.10	2.37	Average	129	311
8	20720.00	60.01	74.00	-13.99	57.64	2.37	Peak	129	311
9	25900.00	58.65	68.20	-9.55	50.96	7.69	Peak	100	125

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
Note 3:"*" is Peak / Average value of fundamental frequency



Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			



Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) <			



Modulation	11a	Test Freq. (MHz)	5200						
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):24 Humidity(%):64									
	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	5008.00	43.47	54.00	-10.53	44.57	-1.10	Average	188	211
2	5008.00	54.55	74.00	-19.45	55.65	-1.10	Peak	188	211
3	5150.00	43.88	54.00	-10.12	44.08	-0.20	Average	200	193
4	5150.00	57.36	74.00	-16.64	57.56	-0.20	Peak	200	193
5 *	5200.00	106.19			106.48	-0.29	Average	200	193
6 *	5200.00	115.80			116.09	-0.29	Peak	200	193
7	5392.00	43.39	54.00	-10.61	44.06	-0.67	Average	200	193
8	5392.00	54.83	74.00	-19.17	55.50	-0.67	Peak	200	193
9	10400.00	57.71	68.20	-10.49	51.25	6.46	Peak	250	13
10	15600.00	42.55	54.00	-11.45	39.68	2.87	Average	100	19
11	15600.00	55.15	74.00	-18.85	52.28	2.87	Peak	100	19
12	20800.00	45.99	54.00	-8.01	43.48	2.51	Average	224	11
13	20800.00	61.53	74.00	-12.47	59.02	2.51	Peak	224	11
14	26000.00	57.98	68.20	-10.22	50.06	7.92	Peak	100	53

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency



Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) <			



Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			



Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			



Modulation	11a	Test Freq. (MHz)	5260																																																																																																																								
Polarization	Vertical																																																																																																																										
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64																																																																																																																											
Level (dBUV/m) UNII 1~2-PK UNII 1~2-AV Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>42.60</td><td>54.00</td><td>-11.40</td><td>42.80</td><td>-0.20</td><td>Average</td><td>180</td><td>185</td></tr><tr><td>2</td><td>5150.00</td><td>55.12</td><td>74.00</td><td>-18.88</td><td>55.32</td><td>-0.20</td><td>Peak</td><td>180</td><td>185</td></tr><tr><td>3 *</td><td>5260.00</td><td>105.18</td><td></td><td></td><td>105.77</td><td>-0.59</td><td>Average</td><td>180</td><td>185</td></tr><tr><td>4 *</td><td>5260.00</td><td>114.36</td><td></td><td></td><td>114.95</td><td>-0.59</td><td>Peak</td><td>180</td><td>185</td></tr><tr><td>5</td><td>5350.00</td><td>45.03</td><td>54.00</td><td>-8.97</td><td>45.88</td><td>-0.85</td><td>Average</td><td>180</td><td>185</td></tr><tr><td>6</td><td>5350.00</td><td>56.73</td><td>74.00</td><td>-17.27</td><td>57.58</td><td>-0.85</td><td>Peak</td><td>180</td><td>185</td></tr><tr><td>7</td><td>21040.00</td><td>47.91</td><td>54.00</td><td>-6.09</td><td>44.95</td><td>2.96</td><td>Average</td><td>125</td><td>344</td></tr><tr><td>8</td><td>21040.00</td><td>57.84</td><td>74.00</td><td>-16.16</td><td>54.88</td><td>2.96</td><td>Peak</td><td>125</td><td>344</td></tr><tr><td>9</td><td>26300.00</td><td>56.93</td><td>68.20</td><td>-11.27</td><td>49.26</td><td>7.67</td><td>Peak</td><td>100</td><td>145</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table						dBuV			cm	deg	1	5150.00	42.60	54.00	-11.40	42.80	-0.20	Average	180	185	2	5150.00	55.12	74.00	-18.88	55.32	-0.20	Peak	180	185	3 *	5260.00	105.18			105.77	-0.59	Average	180	185	4 *	5260.00	114.36			114.95	-0.59	Peak	180	185	5	5350.00	45.03	54.00	-8.97	45.88	-0.85	Average	180	185	6	5350.00	56.73	74.00	-17.27	57.58	-0.85	Peak	180	185	7	21040.00	47.91	54.00	-6.09	44.95	2.96	Average	125	344	8	21040.00	57.84	74.00	-16.16	54.88	2.96	Peak	125	344	9	26300.00	56.93	68.20	-11.27	49.26	7.67	Peak	100	145
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Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			



Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) </			



Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) </			



Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			



Modulation	11a	Test Freq. (MHz)	5500																																																																																																														
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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Modulation	11a	Test Freq. (MHz)	5500																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64																																																																																																																	
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			



Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) </			

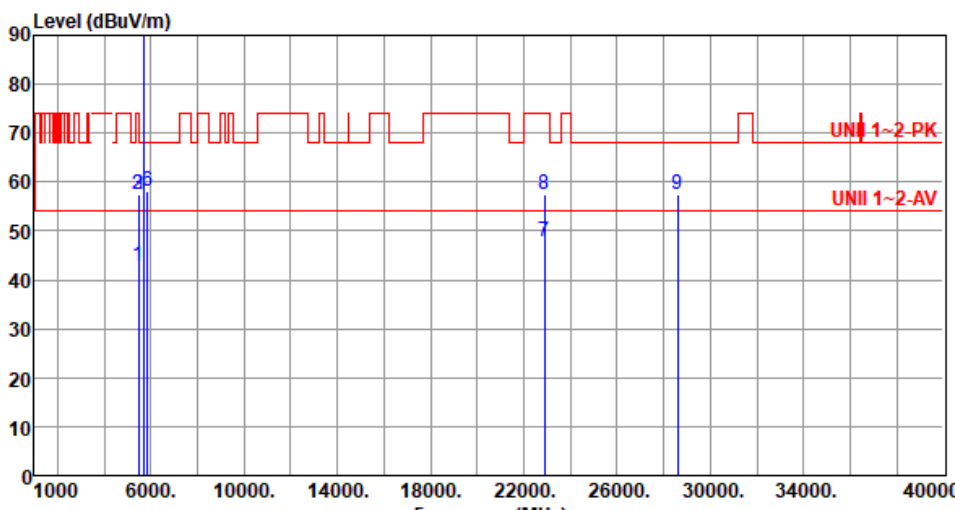


Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			



Modulation	11a	Test Freq. (MHz)	5700																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64																																																																									
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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)	5720																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64																																																																																																							
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>5460.00</td><td>42.89</td><td>54.00</td><td>-11.11</td><td>43.51</td><td>-0.62</td><td>Average</td><td>152</td><td>202</td></tr><tr><td>2</td><td>5460.00</td><td>57.34</td><td>74.00</td><td>-16.66</td><td>57.96</td><td>-0.62</td><td>Peak</td><td>152</td><td>202</td></tr><tr><td>3</td><td>5470.00</td><td>57.40</td><td>68.20</td><td>-10.80</td><td>57.99</td><td>-0.59</td><td>Peak</td><td>152</td><td>202</td></tr><tr><td>4 *</td><td>5720.00</td><td>95.05</td><td></td><td></td><td>95.18</td><td>-0.13</td><td>Average</td><td>152</td><td>202</td></tr><tr><td>5 *</td><td>5720.00</td><td>104.15</td><td></td><td></td><td>104.28</td><td>-0.13</td><td>Peak</td><td>152</td><td>202</td></tr><tr><td>6</td><td>5850.00</td><td>57.96</td><td>68.20</td><td>-10.24</td><td>57.57</td><td>0.39</td><td>Peak</td><td>152</td><td>202</td></tr><tr><td>7</td><td>22880.00</td><td>47.77</td><td>54.00</td><td>-6.23</td><td>41.87</td><td>5.90</td><td>Average</td><td>195</td><td>355</td></tr><tr><td>8</td><td>22880.00</td><td>57.45</td><td>74.00</td><td>-16.55</td><td>51.55</td><td>5.90</td><td>Peak</td><td>195</td><td>355</td></tr><tr><td>9</td><td>28600.00</td><td>57.38</td><td>68.20</td><td>-10.82</td><td>47.94</td><td>9.44</td><td>Peak</td><td>335</td><td>305</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	5460.00	42.89	54.00	-11.11	43.51	-0.62	Average	152	202	2	5460.00	57.34	74.00	-16.66	57.96	-0.62	Peak	152	202	3	5470.00	57.40	68.20	-10.80	57.99	-0.59	Peak	152	202	4 *	5720.00	95.05			95.18	-0.13	Average	152	202	5 *	5720.00	104.15			104.28	-0.13	Peak	152	202	6	5850.00	57.96	68.20	-10.24	57.57	0.39	Peak	152	202	7	22880.00	47.77	54.00	-6.23	41.87	5.90	Average	195	355	8	22880.00	57.45	74.00	-16.55	51.55	5.90	Peak	195	355	9	28600.00	57.38	68.20	-10.82	47.94	9.44	Peak	335	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																																																																																														
1	5460.00	42.89	54.00	-11.11	43.51	-0.62	Average	152	202																																																																																														
2	5460.00	57.34	74.00	-16.66	57.96	-0.62	Peak	152	202																																																																																														
3	5470.00	57.40	68.20	-10.80	57.99	-0.59	Peak	152	202																																																																																														
4 *	5720.00	95.05			95.18	-0.13	Average	152	202																																																																																														
5 *	5720.00	104.15			104.28	-0.13	Peak	152	202																																																																																														
6	5850.00	57.96	68.20	-10.24	57.57	0.39	Peak	152	202																																																																																														
7	22880.00	47.77	54.00	-6.23	41.87	5.90	Average	195	355																																																																																														
8	22880.00	57.45	74.00	-16.55	51.55	5.90	Peak	195	355																																																																																														
9	28600.00	57.38	68.20	-10.82	47.94	9.44	Peak	335	305																																																																																														
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																							



Modulation	11a	Test Freq. (MHz)	5720
Polarization	Vertical		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			



Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) <			



Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) <			



Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) <			

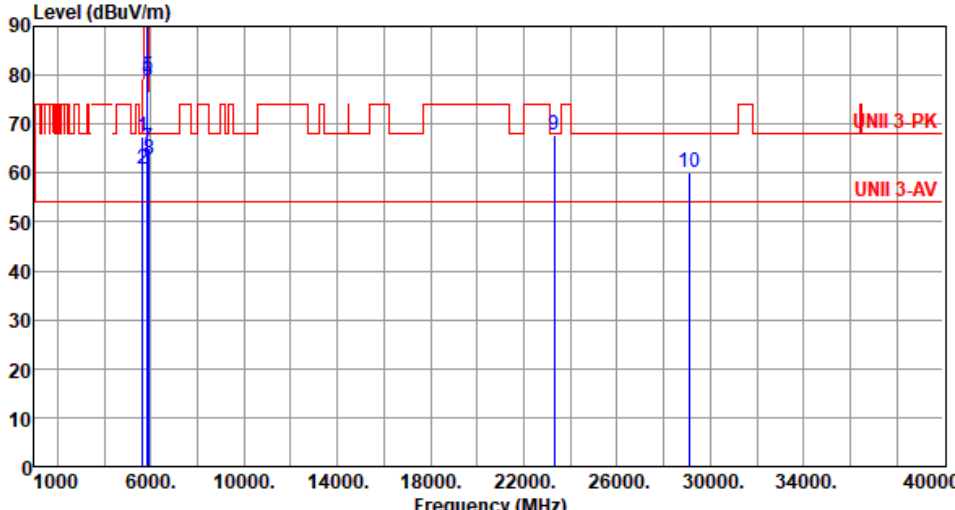


Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) <			



Modulation	11a	Test Freq. (MHz)	5825																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Brad Wu Temperature(°C):24 Humidity(%):64																																																																																																																	
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>5633.00</td><td>57.06</td><td>68.20</td><td>-11.14</td><td>57.57</td><td>-0.51</td><td>Peak</td><td>100</td><td>28</td></tr><tr><td>2</td><td>5650.00</td><td>57.04</td><td>68.20</td><td>-11.16</td><td>57.51</td><td>-0.47</td><td>Peak</td><td>100</td><td>28</td></tr><tr><td>3 *</td><td>5825.00</td><td>101.54</td><td></td><td></td><td>101.25</td><td>0.29</td><td>Average</td><td>100</td><td>28</td></tr><tr><td>4 *</td><td>5825.00</td><td>111.54</td><td></td><td></td><td>111.25</td><td>0.29</td><td>Peak</td><td>100</td><td>28</td></tr><tr><td>5</td><td>5850.00</td><td>68.97</td><td>122.20</td><td>-53.23</td><td>68.58</td><td>0.39</td><td>Peak</td><td>100</td><td>28</td></tr><tr><td>6</td><td>5855.00</td><td>67.64</td><td>110.80</td><td>-43.16</td><td>67.25</td><td>0.39</td><td>Peak</td><td>100</td><td>28</td></tr><tr><td>7</td><td>5875.00</td><td>60.26</td><td>105.20</td><td>-44.94</td><td>59.86</td><td>0.40</td><td>Peak</td><td>100</td><td>28</td></tr><tr><td>8</td><td>5925.00</td><td>58.60</td><td>68.20</td><td>-9.60</td><td>58.24</td><td>0.36</td><td>Peak</td><td>100</td><td>28</td></tr><tr><td>9</td><td>23300.00</td><td>63.73</td><td>68.20</td><td>-4.47</td><td>57.36</td><td>6.37</td><td>Peak</td><td>257</td><td>310</td></tr><tr><td>10</td><td>29125.00</td><td>61.45</td><td>68.20</td><td>-6.75</td><td>51.67</td><td>9.78</td><td>Peak</td><td>175</td><td>310</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	5633.00	57.06	68.20	-11.14	57.57	-0.51	Peak	100	28	2	5650.00	57.04	68.20	-11.16	57.51	-0.47	Peak	100	28	3 *	5825.00	101.54			101.25	0.29	Average	100	28	4 *	5825.00	111.54			111.25	0.29	Peak	100	28	5	5850.00	68.97	122.20	-53.23	68.58	0.39	Peak	100	28	6	5855.00	67.64	110.80	-43.16	67.25	0.39	Peak	100	28	7	5875.00	60.26	105.20	-44.94	59.86	0.40	Peak	100	28	8	5925.00	58.60	68.20	-9.60	58.24	0.36	Peak	100	28	9	23300.00	63.73	68.20	-4.47	57.36	6.37	Peak	257	310	10	29125.00	61.45	68.20	-6.75	51.67	9.78	Peak	175	310
	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	5633.00	57.06	68.20	-11.14	57.57	-0.51	Peak	100	28																																																																																																								
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5	5850.00	68.97	122.20	-53.23	68.58	0.39	Peak	100	28																																																																																																								
6	5855.00	67.64	110.80	-43.16	67.25	0.39	Peak	100	28																																																																																																								
7	5875.00	60.26	105.20	-44.94	59.86	0.40	Peak	100	28																																																																																																								
8	5925.00	58.60	68.20	-9.60	58.24	0.36	Peak	100	28																																																																																																								
9	23300.00	63.73	68.20	-4.47	57.36	6.37	Peak	257	310																																																																																																								
10	29125.00	61.45	68.20	-6.75	51.67	9.78	Peak	175	310																																																																																																								
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																																	



Modulation	11a	Test Freq. (MHz)	5825																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Brad Wu Temperature(°C):24 Humidity(%):64																																																																																																																	
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>5633.00</td><td>67.57</td><td>68.20</td><td>-0.63</td><td>68.08</td><td>-0.51</td><td>Peak</td><td>204</td><td>185</td></tr><tr><td>2</td><td>5650.00</td><td>60.61</td><td>68.20</td><td>-7.59</td><td>61.08</td><td>-0.47</td><td>Peak</td><td>194</td><td>184</td></tr><tr><td>3 *</td><td>5825.00</td><td>114.35</td><td></td><td></td><td>114.06</td><td>0.29</td><td>Average</td><td>194</td><td>184</td></tr><tr><td>4 *</td><td>5825.00</td><td>123.59</td><td></td><td></td><td>123.30</td><td>0.29</td><td>Peak</td><td>194</td><td>184</td></tr><tr><td>5</td><td>5850.00</td><td>79.78</td><td>122.20</td><td>-42.42</td><td>79.39</td><td>0.39</td><td>Peak</td><td>194</td><td>184</td></tr><tr><td>6</td><td>5855.00</td><td>78.79</td><td>110.80</td><td>-32.01</td><td>78.40</td><td>0.39</td><td>Peak</td><td>194</td><td>184</td></tr><tr><td>7</td><td>5875.00</td><td>65.24</td><td>105.20</td><td>-39.96</td><td>64.84</td><td>0.40</td><td>Peak</td><td>194</td><td>184</td></tr><tr><td>8</td><td>5925.00</td><td>62.62</td><td>68.20</td><td>-5.58</td><td>62.26</td><td>0.36</td><td>Peak</td><td>194</td><td>184</td></tr><tr><td>9</td><td>23300.00</td><td>67.89</td><td>68.20</td><td>-0.31</td><td>61.52</td><td>6.37</td><td>Peak</td><td>198</td><td>8</td></tr><tr><td>10</td><td>29125.00</td><td>59.96</td><td>68.20</td><td>-8.24</td><td>50.18</td><td>9.78</td><td>Peak</td><td>100</td><td>166</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	5633.00	67.57	68.20	-0.63	68.08	-0.51	Peak	204	185	2	5650.00	60.61	68.20	-7.59	61.08	-0.47	Peak	194	184	3 *	5825.00	114.35			114.06	0.29	Average	194	184	4 *	5825.00	123.59			123.30	0.29	Peak	194	184	5	5850.00	79.78	122.20	-42.42	79.39	0.39	Peak	194	184	6	5855.00	78.79	110.80	-32.01	78.40	0.39	Peak	194	184	7	5875.00	65.24	105.20	-39.96	64.84	0.40	Peak	194	184	8	5925.00	62.62	68.20	-5.58	62.26	0.36	Peak	194	184	9	23300.00	67.89	68.20	-0.31	61.52	6.37	Peak	198	8	10	29125.00	59.96	68.20	-8.24	50.18	9.78	Peak	100	166
	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	5633.00	67.57	68.20	-0.63	68.08	-0.51	Peak	204	185																																																																																																								
2	5650.00	60.61	68.20	-7.59	61.08	-0.47	Peak	194	184																																																																																																								
3 *	5825.00	114.35			114.06	0.29	Average	194	184																																																																																																								
4 *	5825.00	123.59			123.30	0.29	Peak	194	184																																																																																																								
5	5850.00	79.78	122.20	-42.42	79.39	0.39	Peak	194	184																																																																																																								
6	5855.00	78.79	110.80	-32.01	78.40	0.39	Peak	194	184																																																																																																								
7	5875.00	65.24	105.20	-39.96	64.84	0.40	Peak	194	184																																																																																																								
8	5925.00	62.62	68.20	-5.58	62.26	0.36	Peak	194	184																																																																																																								
9	23300.00	67.89	68.20	-0.31	61.52	6.37	Peak	198	8																																																																																																								
10	29125.00	59.96	68.20	-8.24	50.18	9.78	Peak	100	166																																																																																																								
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3:"*" is Peak / Average value of fundamental frequency																																																																																																																	

Unwanted Emissions (Above 1GHz) for ax HE20

Modulation	ax HE20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			

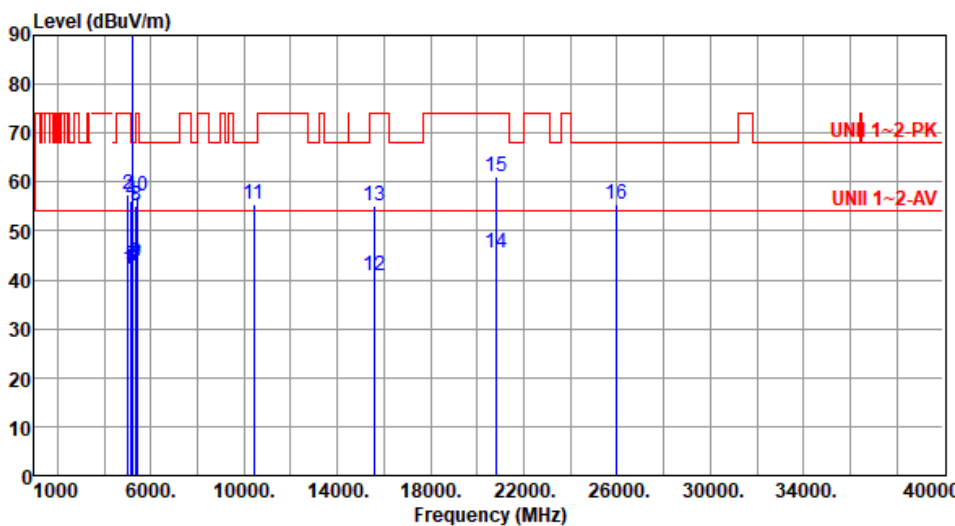


Modulation	ax HE20	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE20		Test Freq. (MHz)		5200	
Polarization	Horizontal					
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64						
Level (dBuV/m) </						



Modulation	ax HE20		Test Freq. (MHz)		5200				
Polarization	Vertical								
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64									
									
	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	5008.00	42.30	54.00	-11.70	43.40	-1.10	Average	157	198
2	5008.00	57.41	74.00	-16.59	58.51	-1.10	Peak	157	198
3	5150.00	42.88	54.00	-11.12	43.08	-0.20	Average	141	193
4	5150.00	56.19	74.00	-17.81	56.39	-0.20	Peak	141	193
5 *	5200.00	99.99			100.28	-0.29	Average	166	156
6 *	5200.00	112.74			113.03	-0.29	Peak	166	156
7	5350.00	42.96	54.00	-11.04	43.81	-0.85	Average	100	122
8	5350.00	55.24	74.00	-18.76	56.09	-0.85	Peak	100	122
9	5392.00	43.37	54.00	-10.63	44.04	-0.67	Average	227	161
10	5392.00	57.27	74.00	-16.73	57.94	-0.67	Peak	227	161
11	10400.00	55.35	68.20	-12.85	48.89	6.46	Peak	299	10
12	15600.00	41.01	54.00	-12.99	38.14	2.87	Average	100	131
13	15600.00	55.02	74.00	-18.98	52.15	2.87	Peak	100	131
14	20800.00	45.61	54.00	-8.39	43.10	2.51	Average	100	354
15	20800.00	61.27	74.00	-12.73	58.76	2.51	Peak	100	354
16	26000.00	55.59	68.20	-12.61	47.67	7.92	Peak	100	122

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency



Modulation	ax HE20	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) </			



Modulation	ax HE20	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) </			



Modulation	ax HE20	Test Freq. (MHz)	5260
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			



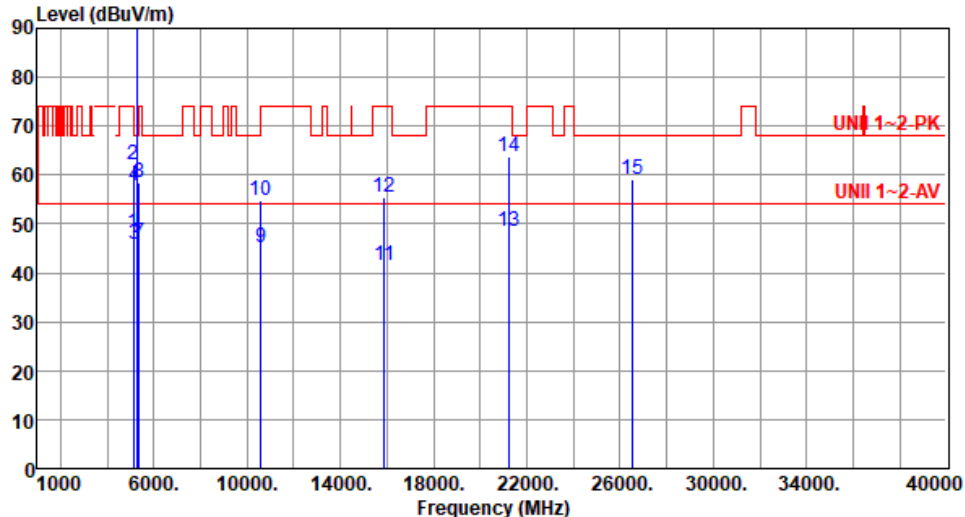
Modulation	ax HE20	Test Freq. (MHz)	5260
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) <			



Modulation	ax HE20		Test Freq. (MHz)		5300				
Polarization	Horizontal								
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64									
	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	5108.00	45.30	54.00	-8.70	45.68	-0.38	Average	100	47
2	5108.00	58.28	74.00	-15.72	58.66	-0.38	Peak	100	47
3	5150.00	42.49	54.00	-11.51	42.69	-0.20	Average	100	24
4	5150.00	54.75	74.00	-19.25	54.95	-0.20	Peak	100	24
5 *	5300.00	96.34			97.00	-0.66	Average	100	24
6 *	5300.00	109.39			110.05	-0.66	Peak	100	24
7	5350.00	44.14	54.00	-9.86	44.99	-0.85	Average	100	24
8	5350.00	56.45	74.00	-17.55	57.30	-0.85	Peak	100	24
9	10600.00	45.85	54.00	-8.15	39.36	6.49	Average	173	348
10	10600.00	54.56	74.00	-19.44	48.07	6.49	Peak	173	348
11	15900.00	41.42	54.00	-12.58	38.09	3.33	Average	168	352
12	15900.00	55.34	74.00	-18.66	52.01	3.33	Peak	168	352
13	21200.00	49.11	54.00	-4.89	45.89	3.22	Average	128	316
14	21200.00	63.27	74.00	-10.73	60.05	3.22	Peak	128	316
15	26500.00	58.72	68.20	-9.48	51.07	7.65	Peak	100	188

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency



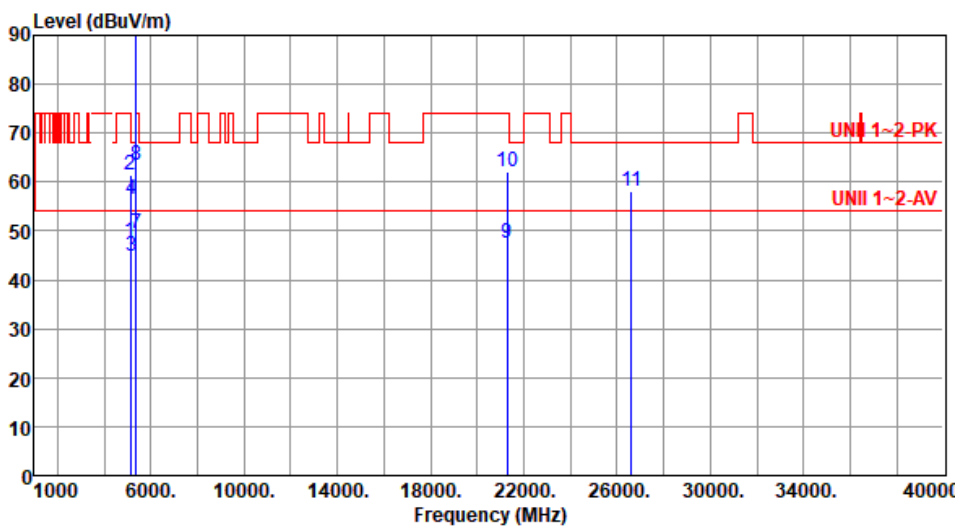
Modulation	ax HE20	Test Freq. (MHz)	5300						
Polarization	Vertical								
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64									
									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5108.00	48.28	54.00	-5.72	48.66	-0.38	Average	172	196
2	5108.00	62.11	74.00	-11.89	62.49	-0.38	Peak	172	196
3	5150.00	45.97	54.00	-8.03	46.17	-0.20	Average	193	165
4	5150.00	57.89	74.00	-16.11	58.09	-0.20	Peak	193	165
5 *	5300.00	106.71			107.37	-0.66	Average	193	165
6 *	5300.00	119.37	-----	-----	120.03	-0.66	Peak	193	165
7	5350.00	46.02	54.00	-7.98	46.87	-0.85	Average	193	165
8	5350.00	58.60	74.00	-15.40	59.45	-0.85	Peak	193	165
9	10600.00	45.28	54.00	-8.72	38.79	6.49	Average	187	1
10	10600.00	54.94	74.00	-19.06	48.45	6.49	Peak	187	1
11	15900.00	41.60	54.00	-12.40	38.27	3.33	Average	190	15
12	15900.00	55.57	74.00	-18.43	52.24	3.33	Peak	190	15
13	21200.00	48.43	54.00	-5.57	45.21	3.22	Average	122	342
14	21200.00	63.93	74.00	-10.07	60.71	3.22	Peak	122	342
15	26500.00	59.00	68.20	-9.20	51.35	7.65	Peak	100	144

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
Note 3:"*" is Peak / Average value of fundamental frequency



Modulation	ax HE20	Test Freq. (MHz)	5320
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) </			



Modulation	ax HE20	Test Freq. (MHz)	5320						
Polarization	Vertical								
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64									
									
	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	5128.00	47.80	54.00	-6.20	48.10	-0.30	Average	161	193
2	5128.00	61.50	74.00	-12.50	61.80	-0.30	Peak	161	193
3	5150.00	44.96	54.00	-9.04	45.16	-0.20	Average	190	158
4	5150.00	56.35	74.00	-17.65	56.55	-0.20	Peak	190	158
5 *	5320.00	105.37			106.11	-0.74	Average	190	158
6 *	5320.00	119.91			120.65	-0.74	Peak	190	158
7	5350.00	49.37	54.00	-4.63	50.22	-0.85	Average	190	158
8	5350.00	63.41	74.00	-10.59	64.26	-0.85	Peak	190	158
9	21280.00	47.56	54.00	-6.44	44.24	3.32	Average	126	336
10	21280.00	62.26	74.00	-11.74	58.94	3.32	Peak	126	336
11	26600.00	58.21	68.20	-9.99	50.20	8.01	Peak	100	136

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3:"*" is Peak / Average value of fundamental frequency



Modulation	ax HE20		Test Freq. (MHz)		5500																																																																																																															
Polarization	Horizontal																																																																																																																			
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64																																																																																																																				
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5308.00</td><td>57.19</td><td>68.20</td><td>-11.01</td><td>57.88</td><td>-0.69</td><td>Peak</td><td>157</td><td>205</td></tr><tr><td>2</td><td>5460.00</td><td>42.97</td><td>54.00</td><td>-11.03</td><td>43.59</td><td>-0.62</td><td>Average</td><td>157</td><td>205</td></tr><tr><td>3</td><td>5460.00</td><td>57.34</td><td>74.00</td><td>-16.66</td><td>57.96</td><td>-0.62</td><td>Peak</td><td>157</td><td>205</td></tr><tr><td>4</td><td>5470.00</td><td>58.61</td><td>68.20</td><td>-9.59</td><td>59.20</td><td>-0.59</td><td>Peak</td><td>157</td><td>205</td></tr><tr><td>5 *</td><td>5500.00</td><td>96.27</td><td></td><td></td><td>96.80</td><td>-0.53</td><td>Average</td><td>157</td><td>205</td></tr><tr><td>6 *</td><td>5500.00</td><td>110.03</td><td>-----</td><td>-----</td><td>110.56</td><td>-0.53</td><td>Peak</td><td>157</td><td>205</td></tr><tr><td>7</td><td>22000.00</td><td>62.38</td><td>68.20</td><td>-5.82</td><td>58.52</td><td>3.86</td><td>Peak</td><td>100</td><td>145</td></tr><tr><td>8</td><td>27500.00</td><td>59.34</td><td>68.20</td><td>-8.86</td><td>51.33</td><td>8.01</td><td>Peak</td><td>100</td><td>143</td></tr></table>								Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5308.00	57.19	68.20	-11.01	57.88	-0.69	Peak	157	205	2	5460.00	42.97	54.00	-11.03	43.59	-0.62	Average	157	205	3	5460.00	57.34	74.00	-16.66	57.96	-0.62	Peak	157	205	4	5470.00	58.61	68.20	-9.59	59.20	-0.59	Peak	157	205	5 *	5500.00	96.27			96.80	-0.53	Average	157	205	6 *	5500.00	110.03	-----	-----	110.56	-0.53	Peak	157	205	7	22000.00	62.38	68.20	-5.82	58.52	3.86	Peak	100	145	8	27500.00	59.34	68.20	-8.86	51.33	8.01	Peak	100	143
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																											
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Modulation	ax HE20	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE20		Test Freq. (MHz)		5580	
Polarization	Horizontal					
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64						
Level (dBuV/m)						



Modulation	ax HE20		Test Freq. (MHz)		5580	
Polarization	Vertical					
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64						
Level (dBuV/m)						



Modulation		ax HE20			Test Freq. (MHz)		5700																																																																																																		
Polarization		Horizontal																																																																																																							
Test By		:Akun Chung-		Temperature(°C):24		Humidity(%):64																																																																																																			
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>*</td><td>5700.00</td><td>94.28</td><td></td><td></td><td>94.54</td><td>-0.26</td><td>Average</td><td>163</td><td>218</td></tr><tr><td>2</td><td>*</td><td>5700.00</td><td>109.05</td><td></td><td></td><td>109.31</td><td>-0.26</td><td>Peak</td><td>163</td><td>218</td></tr><tr><td>3</td><td></td><td>5725.00</td><td>57.78</td><td>68.20</td><td>-10.42</td><td>57.88</td><td>-0.10</td><td>Peak</td><td>163</td><td>218</td></tr><tr><td>4</td><td></td><td>22800.00</td><td>48.26</td><td>54.00</td><td>-5.74</td><td>42.52</td><td>5.74</td><td>Average</td><td>143</td><td>328</td></tr><tr><td>5</td><td></td><td>22800.00</td><td>63.06</td><td>74.00</td><td>-10.94</td><td>57.32</td><td>5.74</td><td>Peak</td><td>143</td><td>328</td></tr><tr><td>6</td><td></td><td>28500.00</td><td>61.42</td><td>68.20</td><td>-6.78</td><td>52.28</td><td>9.14</td><td>Peak</td><td>100</td><td>139</td></tr></tbody></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table						dBuV			cm	deg	1	*	5700.00	94.28			94.54	-0.26	Average	163	218	2	*	5700.00	109.05			109.31	-0.26	Peak	163	218	3		5725.00	57.78	68.20	-10.42	57.88	-0.10	Peak	163	218	4		22800.00	48.26	54.00	-5.74	42.52	5.74	Average	143	328	5		22800.00	63.06	74.00	-10.94	57.32	5.74	Peak	143	328	6		28500.00	61.42	68.20	-6.78	52.28	9.14	Peak	100	139
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																
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Modulation	ax HE20		Test Freq. (MHz)		5700	
Polarization	Vertical					
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64						
Level (dBuV/m) <						



Modulation	ax HE20	Test Freq. (MHz)	5720
Polarization	Horizontal		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			



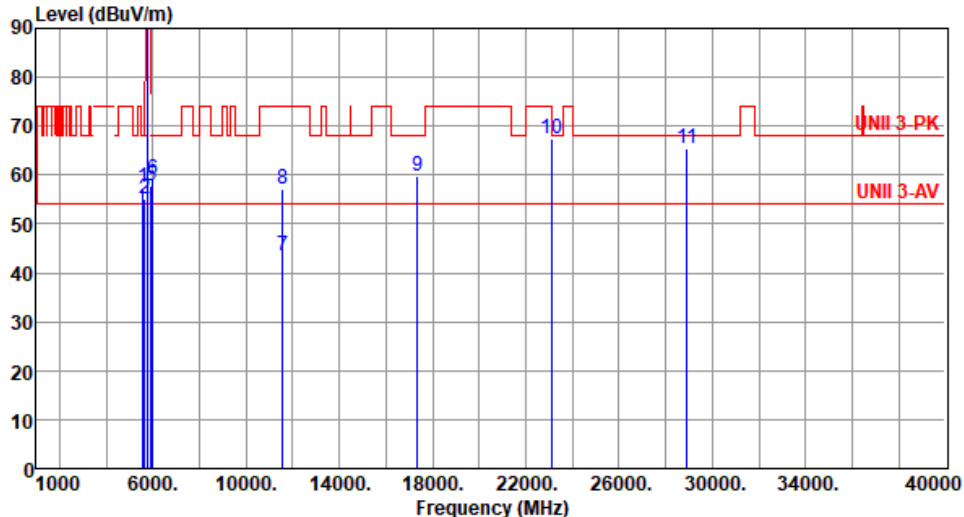
Modulation	ax HE20	Test Freq. (MHz)	5720
Polarization	Vertical		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) </			



Modulation	ax HE20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) </			

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Modulation	ax HE20	Test Freq. (MHz)	5785						
Polarization	Horizontal								
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64									
									
	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	5593.00	57.48	68.20	-10.72	58.08	-0.60	Peak	100	22
2	5650.00	55.21	68.20	-12.99	55.68	-0.47	Peak	100	22
3 *	5785.00	97.10			96.96	0.14	Average	100	22
4 *	5785.00	110.64			110.50	0.14	Peak	100	22
5	5925.00	57.87	68.20	-10.33	57.51	0.36	Peak	100	22
6	5977.00	59.00	68.20	-9.20	58.68	0.32	Peak	100	22
7	11570.00	43.39	54.00	-10.61	37.07	6.32	Average	100	62
8	11570.00	57.10	74.00	-16.90	50.78	6.32	Peak	100	62
9	17355.00	59.77	68.20	-8.43	54.01	5.76	Peak	100	145
10	23140.00	67.38	68.20	-0.82	61.13	6.25	Peak	262	310
11	28925.00	65.32	68.20	-2.88	55.57	9.75	Peak	314	319

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
Note 3:"*" is Peak / Average value of fundamental frequency



Modulation	ax HE20	Test Freq. (MHz)	5785
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			

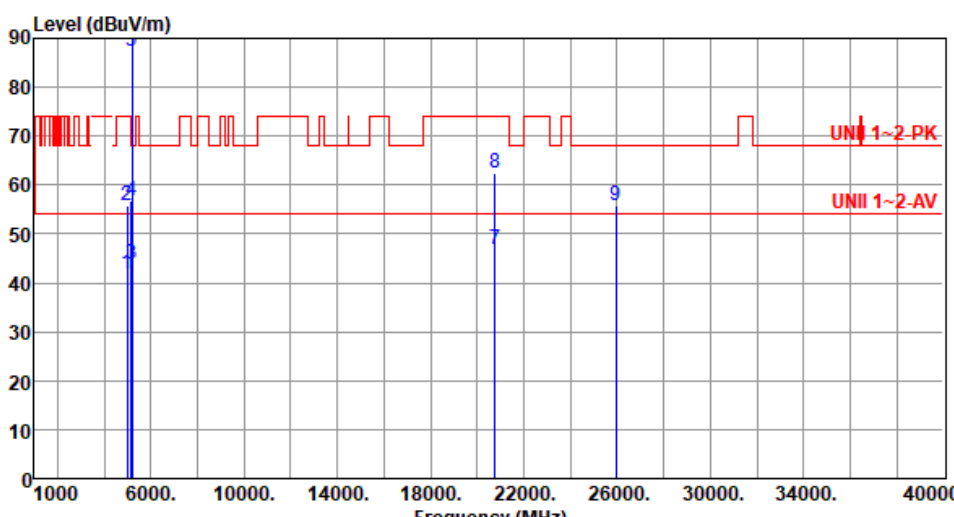


Modulation	ax HE20	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) </			



Modulation	ax HE20	Test Freq. (MHz)	5825																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64																																																																																																																	
Level (dBUV/m) UNII 3-PK UNII 3-AV 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>5633.00</td><td>65.67</td><td>68.20</td><td>-2.53</td><td>66.18</td><td>-0.51</td><td>Peak</td><td>209</td><td>13</td></tr><tr><td>2</td><td>5650.00</td><td>61.58</td><td>68.20</td><td>-6.62</td><td>62.05</td><td>-0.47</td><td>Peak</td><td>209</td><td>13</td></tr><tr><td>3 *</td><td>5825.00</td><td>109.15</td><td></td><td></td><td>108.86</td><td>0.29</td><td>Average</td><td>209</td><td>13</td></tr><tr><td>4 *</td><td>5825.00</td><td>122.03</td><td></td><td></td><td>121.74</td><td>0.29</td><td>Peak</td><td>209</td><td>13</td></tr><tr><td>5</td><td>5850.00</td><td>80.87</td><td>122.20</td><td>-41.33</td><td>80.48</td><td>0.39</td><td>Peak</td><td>209</td><td>13</td></tr><tr><td>6</td><td>5855.00</td><td>77.77</td><td>110.80</td><td>-33.03</td><td>77.38</td><td>0.39</td><td>Peak</td><td>209</td><td>13</td></tr><tr><td>7</td><td>5875.00</td><td>64.93</td><td>105.20</td><td>-40.27</td><td>64.53</td><td>0.40</td><td>Peak</td><td>209</td><td>13</td></tr><tr><td>8</td><td>5925.00</td><td>64.15</td><td>68.20</td><td>-4.05</td><td>63.79</td><td>0.36</td><td>Peak</td><td>209</td><td>13</td></tr><tr><td>9</td><td>23300.00</td><td>67.90</td><td>68.20</td><td>-0.30</td><td>61.53</td><td>6.37</td><td>Peak</td><td>185</td><td>5</td></tr><tr><td>10</td><td>29125.00</td><td>61.71</td><td>68.20</td><td>-6.49</td><td>51.93</td><td>9.78</td><td>Peak</td><td>274</td><td>7</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	5633.00	65.67	68.20	-2.53	66.18	-0.51	Peak	209	13	2	5650.00	61.58	68.20	-6.62	62.05	-0.47	Peak	209	13	3 *	5825.00	109.15			108.86	0.29	Average	209	13	4 *	5825.00	122.03			121.74	0.29	Peak	209	13	5	5850.00	80.87	122.20	-41.33	80.48	0.39	Peak	209	13	6	5855.00	77.77	110.80	-33.03	77.38	0.39	Peak	209	13	7	5875.00	64.93	105.20	-40.27	64.53	0.40	Peak	209	13	8	5925.00	64.15	68.20	-4.05	63.79	0.36	Peak	209	13	9	23300.00	67.90	68.20	-0.30	61.53	6.37	Peak	185	5	10	29125.00	61.71	68.20	-6.49	51.93	9.78	Peak	274	7
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9	23300.00	67.90	68.20	-0.30	61.53	6.37	Peak	185	5																																																																																																								
10	29125.00	61.71	68.20	-6.49	51.93	9.78	Peak	274	7																																																																																																								
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3:"*" is Peak / Average value of fundamental frequency																																																																																																																	

Unwanted Emissions (Above 1GHz) for ax HE40

Modulation	ax HE40	Test Freq. (MHz)	5190						
Polarization	Horizontal								
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	4998.00	41.84	54.00	-12.16	42.96	-1.12	Average	100	33
2	4998.00	55.73	74.00	-18.27	56.85	-1.12	Peak	100	33
3	5150.00	43.76	54.00	-10.24	43.96	-0.20	Average	100	33
4	5150.00	56.79	74.00	-17.21	56.99	-0.20	Peak	100	33
5 *	5190.00	87.31			87.59	-0.28	Average	100	33
6 *	5190.00	99.61			99.89	-0.28	Peak	100	33
7	20760.00	46.78	54.00	-7.22	44.35	2.43	Average	130	311
8	20760.00	62.31	74.00	-11.69	59.88	2.43	Peak	130	311
9	25950.00	55.81	68.20	-12.39	48.00	7.81	Peak	100	155

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency



Modulation	ax HE40	Test Freq. (MHz)	5190																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63																																																																																																							
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	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																														
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Modulation	ax HE40	Test Freq. (MHz)	5230
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) </			



Modulation	ax HE40	Test Freq. (MHz)	5230
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE40	Test Freq. (MHz)	5270
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) </			



Modulation	ax HE40	Test Freq. (MHz)	5270
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) </			



Modulation	ax HE40	Test Freq. (MHz)	5310
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) </			



Modulation	ax HE40	Test Freq. (MHz)	5310																																																																																																				
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Modulation	ax HE40	Test Freq. (MHz)	5510																																																																																																																								
Polarization	Horizontal																																																																																																																										
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64																																																																																																																											
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></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5318.00</td><td>56.15</td><td>68.20</td><td>-12.05</td><td>56.87</td><td>-0.72</td><td>Peak</td><td>156</td><td>20</td></tr><tr><td>2</td><td>5460.00</td><td>43.27</td><td>54.00</td><td>-10.73</td><td>43.89</td><td>-0.62</td><td>Average</td><td>156</td><td>20</td></tr><tr><td>3</td><td>5460.00</td><td>56.27</td><td>74.00</td><td>-17.73</td><td>56.89</td><td>-0.62</td><td>Peak</td><td>156</td><td>20</td></tr><tr><td>4</td><td>5470.00</td><td>57.36</td><td>68.20</td><td>-10.84</td><td>57.95</td><td>-0.59</td><td>Peak</td><td>156</td><td>20</td></tr><tr><td>5 *</td><td>5510.00</td><td>89.70</td><td></td><td></td><td>90.25</td><td>-0.55</td><td>Average</td><td>156</td><td>20</td></tr><tr><td>6 *</td><td>5510.00</td><td>104.30</td><td></td><td></td><td>104.85</td><td>-0.55</td><td>Peak</td><td>156</td><td>20</td></tr><tr><td>7</td><td>22040.00</td><td>45.60</td><td>54.00</td><td>-8.40</td><td>41.65</td><td>3.95</td><td>Average</td><td>115</td><td>320</td></tr><tr><td>8</td><td>22040.00</td><td>58.46</td><td>74.00</td><td>-15.54</td><td>54.51</td><td>3.95</td><td>Peak</td><td>115</td><td>320</td></tr><tr><td>9</td><td>27550.00</td><td>57.86</td><td>68.20</td><td>-10.34</td><td>49.73</td><td>8.13</td><td>Peak</td><td>100</td><td>52</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table									cm	deg	1	5318.00	56.15	68.20	-12.05	56.87	-0.72	Peak	156	20	2	5460.00	43.27	54.00	-10.73	43.89	-0.62	Average	156	20	3	5460.00	56.27	74.00	-17.73	56.89	-0.62	Peak	156	20	4	5470.00	57.36	68.20	-10.84	57.95	-0.59	Peak	156	20	5 *	5510.00	89.70			90.25	-0.55	Average	156	20	6 *	5510.00	104.30			104.85	-0.55	Peak	156	20	7	22040.00	45.60	54.00	-8.40	41.65	3.95	Average	115	320	8	22040.00	58.46	74.00	-15.54	54.51	3.95	Peak	115	320	9	27550.00	57.86	68.20	-10.34	49.73	8.13	Peak	100	52
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
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Modulation	ax HE40	Test Freq. (MHz)	5510																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64																																																																																																							
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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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3	5460.00	63.04	74.00	-10.96	63.66	-0.62	Peak	175	11																																																																																														
4	5470.00	67.84	68.20	-0.36	68.43	-0.59	Peak	175	11																																																																																														
5 *	5510.00	100.49			101.04	-0.55	Average	175	11																																																																																														
6 *	5510.00	114.54			115.09	-0.55	Peak	175	11																																																																																														
7	22040.00	45.46	54.00	-8.54	41.51	3.95	Average	100	331																																																																																														
8	22040.00	60.79	74.00	-13.21	56.84	3.95	Peak	100	331																																																																																														
9	27550.00	55.96	68.20	-12.24	47.83	8.13	Peak	100	152																																																																																														



Modulation	ax HE40	Test Freq. (MHz)	5590
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			



Modulation	ax HE40	Test Freq. (MHz)	5590
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) </			



Modulation	ax HE40	Test Freq. (MHz)	5670																																																																																																																								
Polarization	Horizontal																																																																																																																										
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64																																																																																																																											
Level (dBuV/m) UNI 1~2-PK UNII 1~2-AV 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>5460.00</td><td>42.99</td><td>54.00</td><td>-11.01</td><td>43.61</td><td>-0.62</td><td>Average</td><td>173</td><td>209</td></tr><tr><td>2</td><td>5460.00</td><td>57.19</td><td>74.00</td><td>-16.81</td><td>57.81</td><td>-0.62</td><td>Peak</td><td>173</td><td>209</td></tr><tr><td>3</td><td>5470.00</td><td>57.24</td><td>68.20</td><td>-10.96</td><td>57.83</td><td>-0.59</td><td>Peak</td><td>173</td><td>209</td></tr><tr><td>4 *</td><td>5670.00</td><td>92.58</td><td></td><td></td><td>92.98</td><td>-0.40</td><td>Average</td><td>173</td><td>209</td></tr><tr><td>5 *</td><td>5670.00</td><td>106.52</td><td></td><td></td><td>106.92</td><td>-0.40</td><td>Peak</td><td>173</td><td>209</td></tr><tr><td>6</td><td>5725.00</td><td>57.66</td><td>68.20</td><td>-10.54</td><td>57.76</td><td>-0.10</td><td>Peak</td><td>173</td><td>209</td></tr><tr><td>7</td><td>22680.00</td><td>47.67</td><td>54.00</td><td>-6.33</td><td>42.18</td><td>5.49</td><td>Average</td><td>116</td><td>320</td></tr><tr><td>8</td><td>22680.00</td><td>60.56</td><td>74.00</td><td>-13.44</td><td>55.07</td><td>5.49</td><td>Peak</td><td>116</td><td>320</td></tr><tr><td>9</td><td>28350.00</td><td>59.45</td><td>68.20</td><td>-8.75</td><td>50.33</td><td>9.12</td><td>Peak</td><td>100</td><td>132</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	5460.00	42.99	54.00	-11.01	43.61	-0.62	Average	173	209	2	5460.00	57.19	74.00	-16.81	57.81	-0.62	Peak	173	209	3	5470.00	57.24	68.20	-10.96	57.83	-0.59	Peak	173	209	4 *	5670.00	92.58			92.98	-0.40	Average	173	209	5 *	5670.00	106.52			106.92	-0.40	Peak	173	209	6	5725.00	57.66	68.20	-10.54	57.76	-0.10	Peak	173	209	7	22680.00	47.67	54.00	-6.33	42.18	5.49	Average	116	320	8	22680.00	60.56	74.00	-13.44	55.07	5.49	Peak	116	320	9	28350.00	59.45	68.20	-8.75	50.33	9.12	Peak	100	132
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
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Modulation	ax HE40	Test Freq. (MHz)	5670																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64																																																																																																							
Level (dBUV/m) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5460.00</td><td>43.35</td><td>54.00</td><td>-10.65</td><td>43.97</td><td>-0.62</td><td>Average</td><td>201</td><td>17</td></tr><tr><td>2</td><td>5460.00</td><td>60.27</td><td>74.00</td><td>-13.73</td><td>60.89</td><td>-0.62</td><td>Peak</td><td>201</td><td>17</td></tr><tr><td>3</td><td>5470.00</td><td>60.95</td><td>68.20</td><td>-7.25</td><td>61.54</td><td>-0.59</td><td>Peak</td><td>201</td><td>17</td></tr><tr><td>4 *</td><td>5670.00</td><td>103.85</td><td></td><td></td><td>104.25</td><td>-0.40</td><td>Average</td><td>201</td><td>17</td></tr><tr><td>5 *</td><td>5670.00</td><td>117.99</td><td></td><td></td><td>118.39</td><td>-0.40</td><td>Peak</td><td>201</td><td>17</td></tr><tr><td>6</td><td>5725.00</td><td>67.98</td><td>68.20</td><td>-0.22</td><td>68.08</td><td>-0.10</td><td>Peak</td><td>201</td><td>17</td></tr><tr><td>7</td><td>22680.00</td><td>47.46</td><td>54.00</td><td>-6.54</td><td>41.97</td><td>5.49</td><td>Average</td><td>100</td><td>321</td></tr><tr><td>8</td><td>22680.00</td><td>60.97</td><td>74.00</td><td>-13.03</td><td>55.48</td><td>5.49</td><td>Peak</td><td>100</td><td>321</td></tr><tr><td>9</td><td>28350.00</td><td>59.61</td><td>68.20</td><td>-8.59</td><td>50.49</td><td>9.12</td><td>Peak</td><td>100</td><td>64</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	5460.00	43.35	54.00	-10.65	43.97	-0.62	Average	201	17	2	5460.00	60.27	74.00	-13.73	60.89	-0.62	Peak	201	17	3	5470.00	60.95	68.20	-7.25	61.54	-0.59	Peak	201	17	4 *	5670.00	103.85			104.25	-0.40	Average	201	17	5 *	5670.00	117.99			118.39	-0.40	Peak	201	17	6	5725.00	67.98	68.20	-0.22	68.08	-0.10	Peak	201	17	7	22680.00	47.46	54.00	-6.54	41.97	5.49	Average	100	321	8	22680.00	60.97	74.00	-13.03	55.48	5.49	Peak	100	321	9	28350.00	59.61	68.20	-8.59	50.49	9.12	Peak	100	64
	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)	5710																																																																																																																								
Polarization	Horizontal																																																																																																																										
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64																																																																																																																											
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
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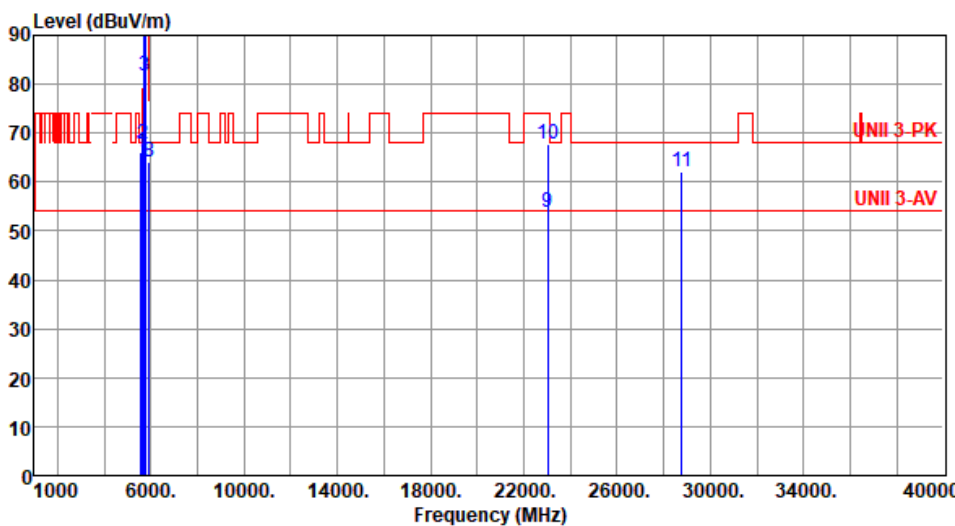


Modulation	ax HE40	Test Freq. (MHz)	5710																																																																																																				
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Test By :Roger Lu- Temperature(°C):24 Humidity(%):64																																																																																																							
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9	28550.00	59.49	68.20	-8.71	50.20	9.29	Peak	100	151																																																																																														
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Modulation	ax HE40	Test Freq. (MHz)	5755																																																																																																																								
Polarization	Horizontal																																																																																																																										
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64																																																																																																																											
Level (dBUV/m) UNII 3-PK UNII 3-AV <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>5563.00</td><td>56.64</td><td>68.20</td><td>-11.56</td><td>57.25</td><td>-0.61</td><td>Peak</td><td>100</td><td>38</td></tr><tr><td>2</td><td>5650.00</td><td>59.37</td><td>68.20</td><td>-8.83</td><td>59.84</td><td>-0.47</td><td>Peak</td><td>100</td><td>38</td></tr><tr><td>3</td><td>5700.00</td><td>70.99</td><td>105.20</td><td>-34.21</td><td>71.25</td><td>-0.26</td><td>Peak</td><td>100</td><td>38</td></tr><tr><td>4</td><td>5720.00</td><td>81.76</td><td>110.80</td><td>-29.04</td><td>81.89</td><td>-0.13</td><td>Peak</td><td>100</td><td>38</td></tr><tr><td>5</td><td>5725.00</td><td>86.85</td><td>122.20</td><td>-35.35</td><td>86.95</td><td>-0.10</td><td>Peak</td><td>100</td><td>38</td></tr><tr><td>6 *</td><td>5755.00</td><td>94.92</td><td></td><td></td><td>94.85</td><td>0.07</td><td>Average</td><td>100</td><td>38</td></tr><tr><td>7 *</td><td>5755.00</td><td>108.32</td><td></td><td></td><td>108.25</td><td>0.07</td><td>Peak</td><td>100</td><td>38</td></tr><tr><td>8</td><td>5925.00</td><td>58.91</td><td>68.20</td><td>-9.29</td><td>58.55</td><td>0.36</td><td>Peak</td><td>100</td><td>38</td></tr><tr><td>9</td><td>23020.00</td><td>50.52</td><td>54.00</td><td>-3.48</td><td>44.35</td><td>6.17</td><td>Average</td><td>277</td><td>350</td></tr><tr><td>10</td><td>23020.00</td><td>65.01</td><td>74.00</td><td>-8.99</td><td>58.84</td><td>6.17</td><td>Peak</td><td>277</td><td>350</td></tr><tr><td>11</td><td>28775.00</td><td>65.02</td><td>68.20</td><td>-3.18</td><td>55.17</td><td>9.85</td><td>Peak</td><td>181</td><td>311</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	5563.00	56.64	68.20	-11.56	57.25	-0.61	Peak	100	38	2	5650.00	59.37	68.20	-8.83	59.84	-0.47	Peak	100	38	3	5700.00	70.99	105.20	-34.21	71.25	-0.26	Peak	100	38	4	5720.00	81.76	110.80	-29.04	81.89	-0.13	Peak	100	38	5	5725.00	86.85	122.20	-35.35	86.95	-0.10	Peak	100	38	6 *	5755.00	94.92			94.85	0.07	Average	100	38	7 *	5755.00	108.32			108.25	0.07	Peak	100	38	8	5925.00	58.91	68.20	-9.29	58.55	0.36	Peak	100	38	9	23020.00	50.52	54.00	-3.48	44.35	6.17	Average	277	350	10	23020.00	65.01	74.00	-8.99	58.84	6.17	Peak	277	350	11	28775.00	65.02	68.20	-3.18	55.17	9.85	Peak	181	311
	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)	5755																																																																																																																									
Polarization	Vertical																																																																																																																											
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63																																																																																																																												
																																																																																																																												
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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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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																																												

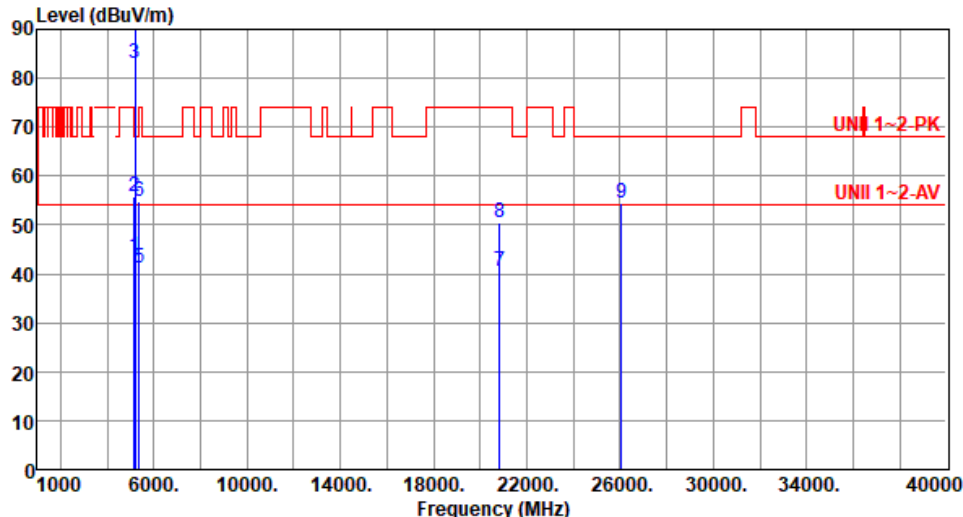


Modulation	ax HE40	Test Freq. (MHz)	5795
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) </			



Modulation	ax HE40	Test Freq. (MHz)	5795
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			

Unwanted Emissions (Above 1GHz) for ax HE80

Modulation	ax HE80		Test Freq. (MHz)		5210				
Polarization	Horizontal								
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63									
									
	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	43.38	54.00	-10.62	43.58	-0.20	Average	100	26
2	5150.00	55.68	74.00	-18.32	55.88	-0.20	Peak	100	26
3 *	5210.00	82.93			83.28	-0.35	Average	100	26
4 *	5210.00	95.90			96.25	-0.35	Peak	100	26
5	5350.00	41.15	54.00	-12.85	42.00	-0.85	Average	100	26
6	5350.00	54.85	74.00	-19.15	55.70	-0.85	Peak	100	26
7	20840.00	40.44	54.00	-13.56	37.86	2.58	Average	100	311
8	20840.00	50.60	74.00	-23.40	48.02	2.58	Peak	100	311
9	26050.00	54.56	68.20	-13.64	46.69	7.87	Peak	100	52

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
Note 3:"*" is Peak / Average value of fundamental frequency



Modulation	ax HE80	Test Freq. (MHz)	5210
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) </			



Modulation	ax HE80	Test Freq. (MHz)	5290																																																																																																																								
Polarization	Horizontal																																																																																																																										
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63																																																																																																																											
Level (dBuV/m) UNI 1~2-PK UNII 1~2-AV 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>5150.00</td><td>42.69</td><td>54.00</td><td>-11.31</td><td>42.89</td><td>-0.20</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>2</td><td>5150.00</td><td>55.65</td><td>74.00</td><td>-18.35</td><td>55.85</td><td>-0.20</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>3 *</td><td>5290.00</td><td>86.20</td><td></td><td></td><td>86.84</td><td>-0.64</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>4 *</td><td>5290.00</td><td>100.23</td><td></td><td></td><td>100.87</td><td>-0.64</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>5</td><td>5350.00</td><td>44.40</td><td>54.00</td><td>-9.60</td><td>45.25</td><td>-0.85</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>6</td><td>5350.00</td><td>59.40</td><td>74.00</td><td>-14.60</td><td>60.25</td><td>-0.85</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>7</td><td>21160.00</td><td>40.73</td><td>54.00</td><td>-13.27</td><td>37.59</td><td>3.14</td><td>Average</td><td>122</td><td>302</td></tr><tr><td>8</td><td>21160.00</td><td>50.41</td><td>74.00</td><td>-23.59</td><td>47.27</td><td>3.14</td><td>Peak</td><td>122</td><td>302</td></tr><tr><td>9</td><td>26450.00</td><td>56.32</td><td>68.20</td><td>-11.88</td><td>48.66</td><td>7.66</td><td>Peak</td><td>100</td><td>60</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	5150.00	42.69	54.00	-11.31	42.89	-0.20	Average	100	30	2	5150.00	55.65	74.00	-18.35	55.85	-0.20	Peak	100	30	3 *	5290.00	86.20			86.84	-0.64	Average	100	30	4 *	5290.00	100.23			100.87	-0.64	Peak	100	30	5	5350.00	44.40	54.00	-9.60	45.25	-0.85	Average	100	30	6	5350.00	59.40	74.00	-14.60	60.25	-0.85	Peak	100	30	7	21160.00	40.73	54.00	-13.27	37.59	3.14	Average	122	302	8	21160.00	50.41	74.00	-23.59	47.27	3.14	Peak	122	302	9	26450.00	56.32	68.20	-11.88	48.66	7.66	Peak	100	60
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
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Modulation	ax HE80	Test Freq. (MHz)	5290
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63			
Level (dBUV/m)			



Modulation	ax HE80	Test Freq. (MHz)	5530
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			



Modulation	ax HE80	Test Freq. (MHz)	5530
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) </			



Modulation	ax HE80	Test Freq. (MHz)	5610																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64																																																																																																							
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>5460.00</td><td>42.97</td><td>54.00</td><td>-11.03</td><td>43.59</td><td>-0.62</td><td>Average</td><td>155</td><td>206</td></tr><tr><td>2</td><td>5460.00</td><td>56.69</td><td>74.00</td><td>-17.31</td><td>57.31</td><td>-0.62</td><td>Peak</td><td>155</td><td>206</td></tr><tr><td>3</td><td>5470.00</td><td>56.67</td><td>68.20</td><td>-11.53</td><td>57.26</td><td>-0.59</td><td>Peak</td><td>155</td><td>206</td></tr><tr><td>4 *</td><td>5610.00</td><td>89.60</td><td></td><td></td><td>90.17</td><td>-0.57</td><td>Average</td><td>155</td><td>206</td></tr><tr><td>5 *</td><td>5610.00</td><td>102.43</td><td></td><td></td><td>103.00</td><td>-0.57</td><td>Peak</td><td>155</td><td>206</td></tr><tr><td>6</td><td>5725.00</td><td>57.48</td><td>68.20</td><td>-10.72</td><td>57.58</td><td>-0.10</td><td>Peak</td><td>155</td><td>206</td></tr><tr><td>7</td><td>22440.00</td><td>47.12</td><td>54.00</td><td>-6.88</td><td>42.18</td><td>4.94</td><td>Average</td><td>100</td><td>302</td></tr><tr><td>8</td><td>22440.00</td><td>55.13</td><td>74.00</td><td>-18.87</td><td>50.19</td><td>4.94</td><td>Peak</td><td>100</td><td>302</td></tr><tr><td>9</td><td>28050.00</td><td>61.14</td><td>68.20</td><td>-7.06</td><td>51.98</td><td>9.16</td><td>Peak</td><td>100</td><td>62</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	5460.00	42.97	54.00	-11.03	43.59	-0.62	Average	155	206	2	5460.00	56.69	74.00	-17.31	57.31	-0.62	Peak	155	206	3	5470.00	56.67	68.20	-11.53	57.26	-0.59	Peak	155	206	4 *	5610.00	89.60			90.17	-0.57	Average	155	206	5 *	5610.00	102.43			103.00	-0.57	Peak	155	206	6	5725.00	57.48	68.20	-10.72	57.58	-0.10	Peak	155	206	7	22440.00	47.12	54.00	-6.88	42.18	4.94	Average	100	302	8	22440.00	55.13	74.00	-18.87	50.19	4.94	Peak	100	302	9	28050.00	61.14	68.20	-7.06	51.98	9.16	Peak	100	62
	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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4 *	5610.00	89.60			90.17	-0.57	Average	155	206																																																																																														
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Modulation	ax HE80	Test Freq. (MHz)	5610
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) <			

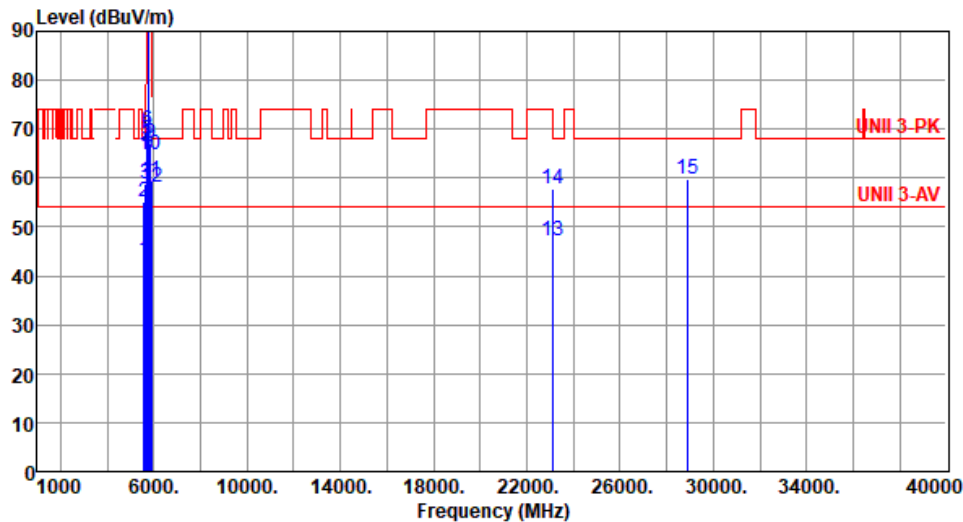


Modulation	ax HE80	Test Freq. (MHz)	5690																																																																																																																								
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Test By :Akun Chung- Temperature(°C):24 Humidity(%):64																																																																																																																											
Level (dBuV/m) UNII 1~2 PK UNII 1~2 AV 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>5460.00</td><td>42.98</td><td>54.00</td><td>-11.02</td><td>43.60</td><td>-0.62</td><td>Average</td><td>179</td><td>215</td></tr><tr><td>2</td><td>5460.00</td><td>57.38</td><td>74.00</td><td>-16.62</td><td>58.00</td><td>-0.62</td><td>Peak</td><td>179</td><td>215</td></tr><tr><td>3</td><td>5470.00</td><td>57.93</td><td>68.20</td><td>-10.27</td><td>58.52</td><td>-0.59</td><td>Peak</td><td>179</td><td>215</td></tr><tr><td>4 *</td><td>5690.00</td><td>89.85</td><td></td><td></td><td>90.15</td><td>-0.30</td><td>Average</td><td>179</td><td>215</td></tr><tr><td>5 *</td><td>5690.00</td><td>102.65</td><td></td><td></td><td>102.95</td><td>-0.30</td><td>Peak</td><td>179</td><td>215</td></tr><tr><td>6</td><td>5850.00</td><td>57.34</td><td>68.20</td><td>-10.86</td><td>56.95</td><td>0.39</td><td>Peak</td><td>179</td><td>215</td></tr><tr><td>7</td><td>22760.00</td><td>47.14</td><td>54.00</td><td>-6.86</td><td>41.48</td><td>5.66</td><td>Average</td><td>100</td><td>320</td></tr><tr><td>8</td><td>22760.00</td><td>56.35</td><td>74.00</td><td>-17.65</td><td>50.69</td><td>5.66</td><td>Peak</td><td>100</td><td>320</td></tr><tr><td>9</td><td>28450.00</td><td>58.78</td><td>68.20</td><td>-9.42</td><td>49.65</td><td>9.13</td><td>Peak</td><td>100</td><td>55</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	5460.00	42.98	54.00	-11.02	43.60	-0.62	Average	179	215	2	5460.00	57.38	74.00	-16.62	58.00	-0.62	Peak	179	215	3	5470.00	57.93	68.20	-10.27	58.52	-0.59	Peak	179	215	4 *	5690.00	89.85			90.15	-0.30	Average	179	215	5 *	5690.00	102.65			102.95	-0.30	Peak	179	215	6	5850.00	57.34	68.20	-10.86	56.95	0.39	Peak	179	215	7	22760.00	47.14	54.00	-6.86	41.48	5.66	Average	100	320	8	22760.00	56.35	74.00	-17.65	50.69	5.66	Peak	100	320	9	28450.00	58.78	68.20	-9.42	49.65	9.13	Peak	100	55
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
	MHz	level			reading			High	Table																																																																																																																		
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2	5460.00	57.38	74.00	-16.62	58.00	-0.62	Peak	179	215																																																																																																																		
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9	28450.00	58.78	68.20	-9.42	49.65	9.13	Peak	100	55																																																																																																																		
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																																											



Modulation	ax HE80	Test Freq. (MHz)	5690																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64																																																																																																							
Level (dBuV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5460.00</td><td>49.90</td><td>54.00</td><td>-4.10</td><td>50.52</td><td>-0.62</td><td>Average</td><td>201</td><td>188</td></tr><tr><td>2</td><td>5460.00</td><td>62.69</td><td>74.00</td><td>-11.31</td><td>63.31</td><td>-0.62</td><td>Peak</td><td>201</td><td>188</td></tr><tr><td>3</td><td>5470.00</td><td>63.24</td><td>68.20</td><td>-4.96</td><td>63.83</td><td>-0.59</td><td>Peak</td><td>201</td><td>188</td></tr><tr><td>4 *</td><td>5690.00</td><td>100.91</td><td></td><td></td><td>101.21</td><td>-0.30</td><td>Average</td><td>201</td><td>188</td></tr><tr><td>5 *</td><td>5690.00</td><td>113.30</td><td></td><td></td><td>113.60</td><td>-0.30</td><td>Peak</td><td>201</td><td>188</td></tr><tr><td>6</td><td>5850.00</td><td>66.28</td><td>68.20</td><td>-1.92</td><td>65.89</td><td>0.39</td><td>Peak</td><td>201</td><td>188</td></tr><tr><td>7</td><td>22760.00</td><td>48.64</td><td>54.00</td><td>-5.36</td><td>42.98</td><td>5.66</td><td>Average</td><td>100</td><td>324</td></tr><tr><td>8</td><td>22760.00</td><td>56.51</td><td>74.00</td><td>-17.49</td><td>50.85</td><td>5.66</td><td>Peak</td><td>100</td><td>324</td></tr><tr><td>9</td><td>28450.00</td><td>58.08</td><td>68.20</td><td>-10.12</td><td>48.95</td><td>9.13</td><td>Peak</td><td>100</td><td>152</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	5460.00	49.90	54.00	-4.10	50.52	-0.62	Average	201	188	2	5460.00	62.69	74.00	-11.31	63.31	-0.62	Peak	201	188	3	5470.00	63.24	68.20	-4.96	63.83	-0.59	Peak	201	188	4 *	5690.00	100.91			101.21	-0.30	Average	201	188	5 *	5690.00	113.30			113.60	-0.30	Peak	201	188	6	5850.00	66.28	68.20	-1.92	65.89	0.39	Peak	201	188	7	22760.00	48.64	54.00	-5.36	42.98	5.66	Average	100	324	8	22760.00	56.51	74.00	-17.49	50.85	5.66	Peak	100	324	9	28450.00	58.08	68.20	-10.12	48.95	9.13	Peak	100	152
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																														
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7	22760.00	48.64	54.00	-5.36	42.98	5.66	Average	100	324																																																																																														
8	22760.00	56.51	74.00	-17.49	50.85	5.66	Peak	100	324																																																																																														
9	28450.00	58.08	68.20	-10.12	48.95	9.13	Peak	100	152																																																																																														
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																							



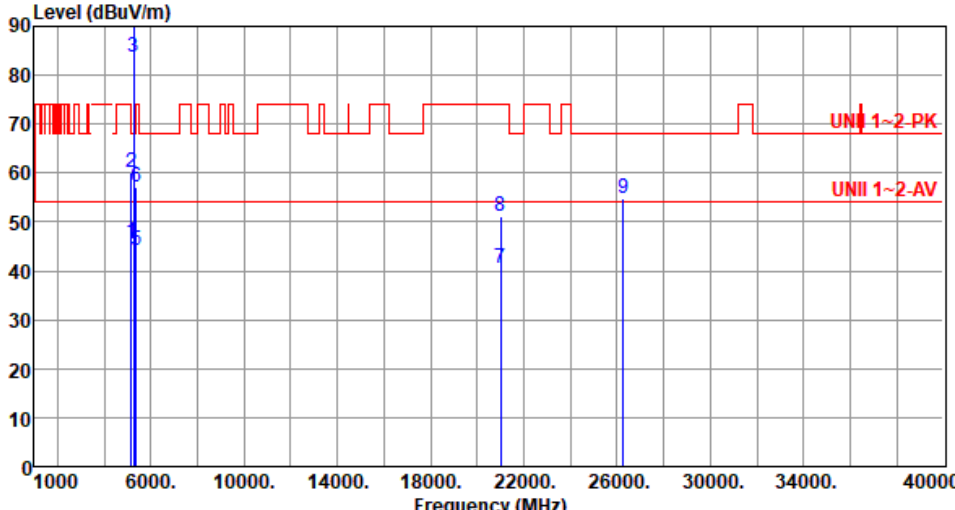
Modulation	ax HE80	Test Freq. (MHz)	5775						
Polarization	Horizontal								
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5583.00	43.08	54.00	-10.92	43.69	-0.61	Average	100	21
2	5583.00	55.24	68.20	-12.96	55.85	-0.61	Peak	100	21
3	5650.00	58.72	68.20	-9.48	59.19	-0.47	Peak	100	21
4	5700.00	65.64	105.20	-39.56	65.90	-0.26	Peak	100	21
5	5720.00	67.62	110.80	-43.18	67.75	-0.13	Peak	100	21
6	5725.00	69.85	122.20	-52.35	69.95	-0.10	Peak	100	21
7 *	5775.00	90.07			89.95	0.12	Average	100	21
8 *	5775.00	103.37			103.25	0.12	Peak	100	21
9	5850.00	67.02	122.20	-55.18	66.63	0.39	Peak	100	21
10	5855.00	64.64	110.80	-46.16	64.25	0.39	Peak	100	21
11	5875.00	59.36	105.20	-45.84	58.96	0.40	Peak	100	21
12	5925.00	58.26	68.20	-9.94	57.90	0.36	Peak	100	21
13	23100.00	47.01	54.00	-6.99	40.79	6.22	Average	100	304
14	23100.00	57.64	74.00	-16.36	51.42	6.22	Peak	100	304
15	28875.00	59.67	68.20	-8.53	49.89	9.78	Peak	100	25

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency



Modulation	ax HE80	Test Freq. (MHz)	5775
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) </			



Modulation	ax HE160-OFDMA	Test Freq. (MHz)	5250																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63																																																																																																																	
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission level</th><th>Limit</th><th>Margin</th><th>SA reading</th><th>Factor</th><th>Remark</th><th>ANT High</th><th>Turn Table</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>45.68</td><td>54.00</td><td>-8.32</td><td>45.88</td><td>-0.20</td><td>Average</td><td>100</td><td>33</td></tr><tr><td>2</td><td>5150.00</td><td>60.05</td><td>74.00</td><td>-13.95</td><td>60.25</td><td>-0.20</td><td>Peak</td><td>100</td><td>33</td></tr><tr><td>3 *</td><td>5250.00</td><td>83.70</td><td></td><td></td><td>84.28</td><td>-0.58</td><td>Average</td><td>100</td><td>33</td></tr><tr><td>4 *</td><td>5250.00</td><td>97.00</td><td></td><td></td><td>97.58</td><td>-0.58</td><td>Peak</td><td>100</td><td>33</td></tr><tr><td>5</td><td>5350.00</td><td>44.02</td><td>54.00</td><td>-9.98</td><td>44.87</td><td>-0.85</td><td>Average</td><td>100</td><td>33</td></tr><tr><td>6</td><td>5350.00</td><td>57.00</td><td>74.00</td><td>-17.00</td><td>57.85</td><td>-0.85</td><td>Peak</td><td>100</td><td>33</td></tr><tr><td>7</td><td>21000.00</td><td>40.64</td><td>54.00</td><td>-13.36</td><td>37.75</td><td>2.89</td><td>Average</td><td>100</td><td>310</td></tr><tr><td>8</td><td>21000.00</td><td>51.14</td><td>74.00</td><td>-22.86</td><td>48.25</td><td>2.89</td><td>Peak</td><td>100</td><td>310</td></tr><tr><td>9</td><td>26250.00</td><td>54.83</td><td>68.20</td><td>-13.37</td><td>47.14</td><td>7.69</td><td>Peak</td><td>100</td><td>55</td></tr></table>					Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	5150.00	45.68	54.00	-8.32	45.88	-0.20	Average	100	33	2	5150.00	60.05	74.00	-13.95	60.25	-0.20	Peak	100	33	3 *	5250.00	83.70			84.28	-0.58	Average	100	33	4 *	5250.00	97.00			97.58	-0.58	Peak	100	33	5	5350.00	44.02	54.00	-9.98	44.87	-0.85	Average	100	33	6	5350.00	57.00	74.00	-17.00	57.85	-0.85	Peak	100	33	7	21000.00	40.64	54.00	-13.36	37.75	2.89	Average	100	310	8	21000.00	51.14	74.00	-22.86	48.25	2.89	Peak	100	310	9	26250.00	54.83	68.20	-13.37	47.14	7.69	Peak	100	55
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																																																								
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg																																																																																																								
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3 *	5250.00	83.70			84.28	-0.58	Average	100	33																																																																																																								
4 *	5250.00	97.00			97.58	-0.58	Peak	100	33																																																																																																								
5	5350.00	44.02	54.00	-9.98	44.87	-0.85	Average	100	33																																																																																																								
6	5350.00	57.00	74.00	-17.00	57.85	-0.85	Peak	100	33																																																																																																								
7	21000.00	40.64	54.00	-13.36	37.75	2.89	Average	100	310																																																																																																								
8	21000.00	51.14	74.00	-22.86	48.25	2.89	Peak	100	310																																																																																																								
9	26250.00	54.83	68.20	-13.37	47.14	7.69	Peak	100	55																																																																																																								
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3:"*" is Peak / Average value of fundamental frequency																																																																																																																	

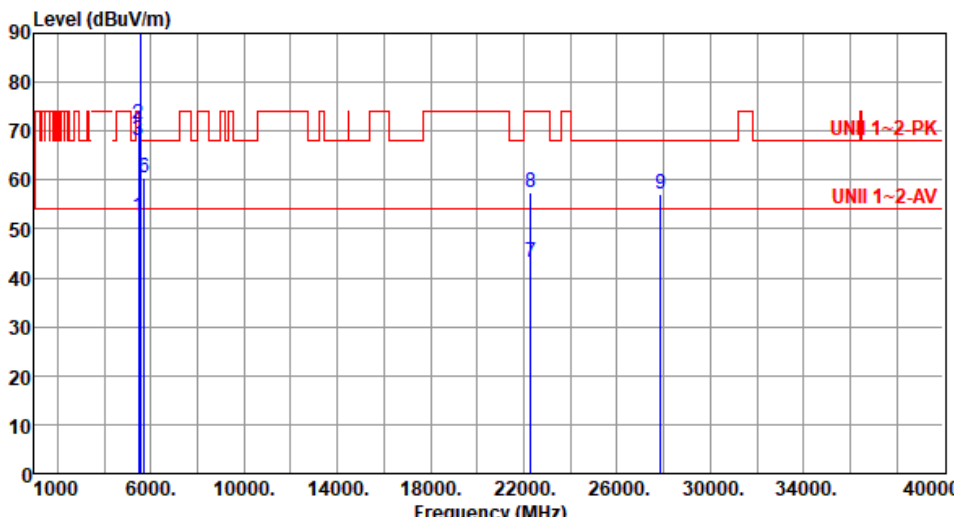


Modulation	ax HE160-OFDMA	Test Freq. (MHz)	5250
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) </			



Modulation	ax HE160-OFDMA	Test Freq. (MHz)	5570
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) </			



Modulation	ax HE160-OFDMA	Test Freq. (MHz)	5570																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Roger Lu- Temperature(°C):24 Humidity(%):63																																																																																																							
 <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>5460.00</td><td>52.63</td><td>54.00</td><td>-1.37</td><td>53.25</td><td>-0.62</td><td>Average</td><td>192</td><td>193</td></tr><tr><td>2</td><td>5460.00</td><td>71.40</td><td>74.00</td><td>-2.60</td><td>72.02</td><td>-0.62</td><td>Peak</td><td>192</td><td>193</td></tr><tr><td>3</td><td>5470.00</td><td>67.96</td><td>68.20</td><td>-0.24</td><td>68.55</td><td>-0.59</td><td>Peak</td><td>192</td><td>193</td></tr><tr><td>4 *</td><td>5570.00</td><td>95.46</td><td></td><td></td><td>96.07</td><td>-0.61</td><td>Average</td><td>192</td><td>193</td></tr><tr><td>5 *</td><td>5570.00</td><td>108.98</td><td></td><td></td><td>109.59</td><td>-0.61</td><td>Peak</td><td>192</td><td>193</td></tr><tr><td>6</td><td>5725.00</td><td>60.52</td><td>68.20</td><td>-7.68</td><td>60.62</td><td>-0.10</td><td>Peak</td><td>192</td><td>193</td></tr><tr><td>7</td><td>22280.00</td><td>43.06</td><td>54.00</td><td>-10.94</td><td>38.58</td><td>4.48</td><td>Average</td><td>100</td><td>338</td></tr><tr><td>8</td><td>22280.00</td><td>57.33</td><td>74.00</td><td>-16.67</td><td>52.85</td><td>4.48</td><td>Peak</td><td>100</td><td>338</td></tr><tr><td>9</td><td>27850.00</td><td>56.97</td><td>68.20</td><td>-11.23</td><td>48.14</td><td>8.83</td><td>Peak</td><td>100</td><td>156</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	5460.00	52.63	54.00	-1.37	53.25	-0.62	Average	192	193	2	5460.00	71.40	74.00	-2.60	72.02	-0.62	Peak	192	193	3	5470.00	67.96	68.20	-0.24	68.55	-0.59	Peak	192	193	4 *	5570.00	95.46			96.07	-0.61	Average	192	193	5 *	5570.00	108.98			109.59	-0.61	Peak	192	193	6	5725.00	60.52	68.20	-7.68	60.62	-0.10	Peak	192	193	7	22280.00	43.06	54.00	-10.94	38.58	4.48	Average	100	338	8	22280.00	57.33	74.00	-16.67	52.85	4.48	Peak	100	338	9	27850.00	56.97	68.20	-11.23	48.14	8.83	Peak	100	156
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																														
1	5460.00	52.63	54.00	-1.37	53.25	-0.62	Average	192	193																																																																																														
2	5460.00	71.40	74.00	-2.60	72.02	-0.62	Peak	192	193																																																																																														
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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). Note 3:"*" is Peak / Average value of fundamental frequency																																																																																																							

Frequency: 5300 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-0.78	-0.95	-0.78	-0.71
T20°CVmin	-1.44	-0.87	-1.55	-1.44
T65°CVnom	-0.52	-0.84	-0.72	-0.63
T60°CVnom	-0.93	-0.43	-1.17	-0.55
T50°CVnom	-0.85	-0.33	-0.26	-0.31
T40°CVnom	-0.94	-0.25	-0.52	-0.28
T30°CVnom	-0.86	-0.33	-0.51	-0.52
T20°CVnom	-1.02	-0.18	-0.56	-0.46
T10°CVnom	2.78	3.49	2.69	3.00
T0°CVnom	4.78	4.99	4.74	5.05
T-10°CVnom	6.49	6.85	6.54	6.66
T-20°CVnom	8.32	8.13	8.09	8.46
T-30°CVnom	8.97	9.56	8.92	9.75
T-40°CVnom	9.84	10.00	10.32	9.57
Vnom [V]: 120	Vmax [V]: 138		Vmin [V]: 102	
Tnom [°C]: 20	Tmax [°C]: 65		Tmin [°C]: -40	

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-0.53	-0.76	-0.26	-0.36
T20°CVmin	-0.86	-0.35	-0.17	-0.55
T65°CVnom	-2.55	-2.90	-2.72	-2.08
T60°CVnom	-0.39	-0.36	-0.31	-0.80
T50°CVnom	-0.27	-0.14	0.03	-0.66
T40°CVnom	-0.38	-0.37	-0.30	-0.04
T30°CVnom	-0.72	-0.44	-0.19	-0.62
T20°CVnom	-0.95	-1.43	-1.28	-0.67
T10°CVnom	2.73	3.46	2.57	3.10
T0°CVnom	4.50	4.22	5.16	4.57
T-10°CVnom	6.10	6.15	6.49	6.38
T-20°CVnom	7.69	8.33	8.09	7.83
T-30°CVnom	7.81	7.94	7.91	8.43
T-40°CVnom	9.41	9.25	9.63	10.02
Vnom [V]: 120	Vmax [V]: 138		Vmin [V]: 102	
Tnom [°C]: 20	Tmax [°C]: 65		Tmin [°C]: -40	

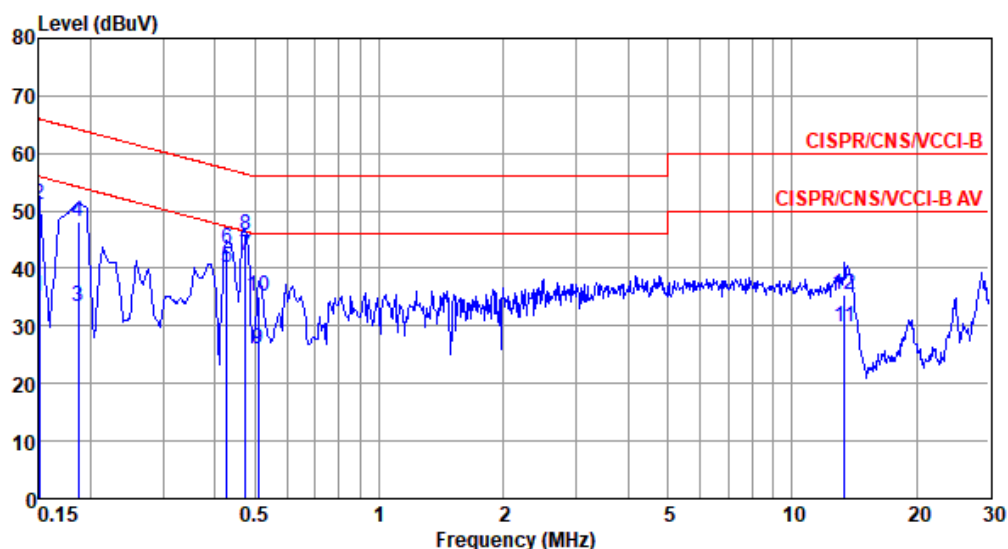


Modulation Mode	ax HE80	Test Freq. (MHz)	5610
Power Phase	Line		

Test by : Joe Liao

Temperature: 20°C

Humidity: 63%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark
	MHz	dBuV	Line	Limit	Level	dB	loss	dB	
			dBuV	dB	dBuV		dB		
1	0.150	35.01	56.00	-20.99	25.09	9.68	0.06	0.18	Average
2	0.150	51.16	66.00	-14.84	41.24	9.68	0.06	0.18	QP
3	0.186	33.49	54.20	-20.71	23.56	9.68	0.06	0.19	Average
4	0.186	48.17	64.20	-16.03	38.24	9.68	0.06	0.19	QP
5	0.428	40.10	47.29	-7.19	30.07	9.67	0.06	0.30	Average
6	0.428	43.54	57.29	-13.75	33.51	9.67	0.06	0.30	QP
7*	0.474	42.26	46.45	-4.19	32.21	9.67	0.07	0.31	Average
8	0.474	45.65	56.45	-10.80	35.60	9.67	0.07	0.31	QP
9	0.510	25.97	46.00	-20.03	15.92	9.67	0.07	0.31	Average
10	0.510	35.12	56.00	-20.88	25.07	9.67	0.07	0.31	QP
11	13.408	29.79	50.00	-20.21	19.15	9.74	0.42	0.48	Average
12	13.408	35.33	60.00	-24.67	24.69	9.74	0.42	0.48	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).

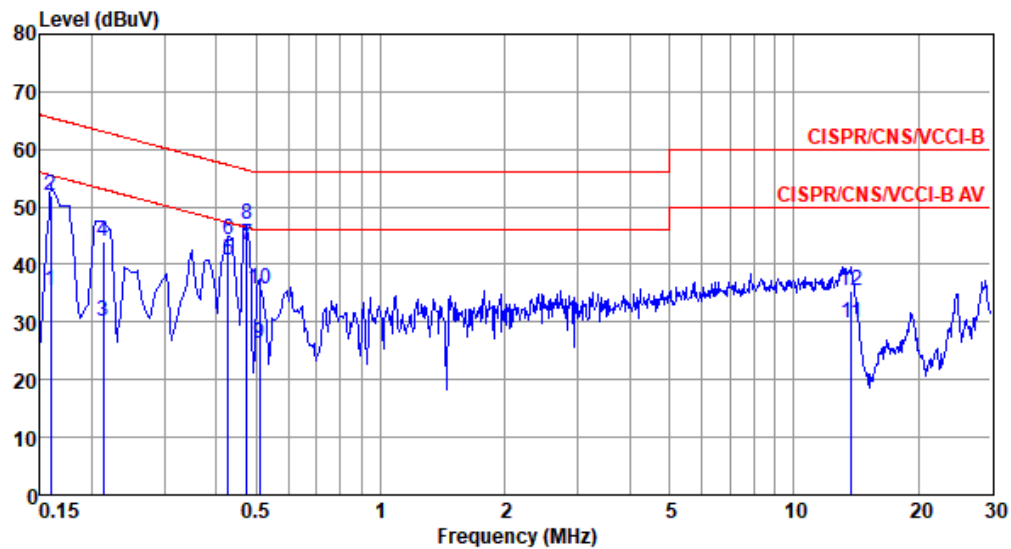


Modulation Mode	ax HE80	Test Freq. (MHz)	5610
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 20°C

Humidity: 63%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	35.48	55.52	-20.04	25.63	9.61	0.06	0.18	Average
2	0.159	52.06	65.52	-13.46	42.21	9.61	0.06	0.18	QP
3	0.213	30.24	53.10	-22.86	20.37	9.61	0.06	0.20	Average
4	0.213	43.86	63.10	-19.24	33.99	9.61	0.06	0.20	QP
5	0.428	40.78	47.29	-6.51	30.81	9.61	0.06	0.30	Average
6	0.428	44.26	57.29	-13.03	34.29	9.61	0.06	0.30	QP
7*	0.476	43.35	46.42	-3.07	33.36	9.61	0.07	0.31	Average
8	0.476	46.93	56.42	-9.49	36.94	9.61	0.07	0.31	QP
9	0.510	26.32	46.00	-19.68	16.33	9.61	0.07	0.31	Average
10	0.510	35.68	56.00	-20.32	25.69	9.61	0.07	0.31	QP
11	13.768	29.82	50.00	-20.18	19.18	9.74	0.42	0.48	Average
12	13.768	35.45	60.00	-24.55	24.81	9.74	0.42	0.48	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).

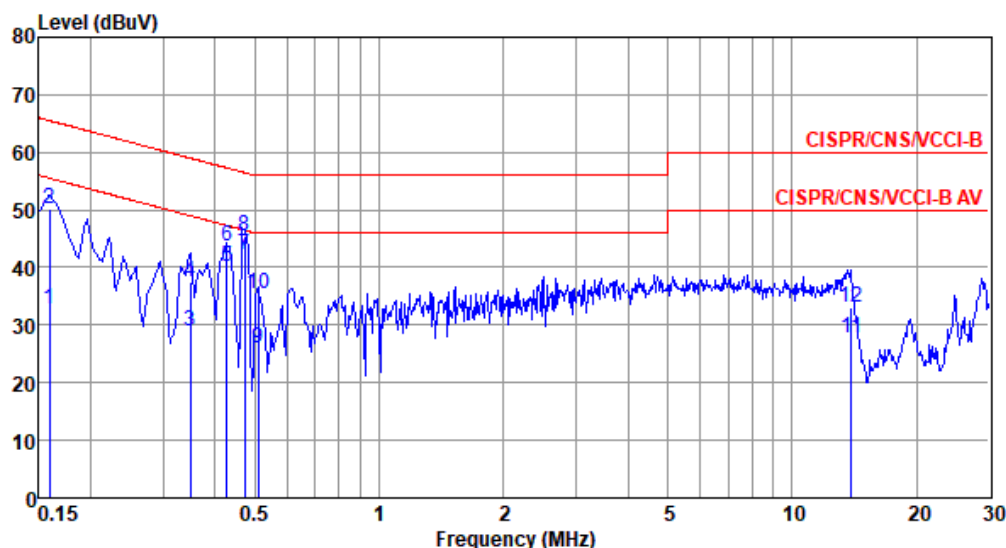


Modulation Mode	ax HE40	Test Freq. (MHz)	5795
Power Phase	Line		

Test by : Joe Liao

Temperature: 20°C

Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	32.69	55.52	-22.83	22.77	9.68	0.06	0.18	Average
2	0.159	50.31	65.52	-15.21	40.39	9.68	0.06	0.18	QP
3	0.348	28.98	49.00	-20.02	18.97	9.67	0.06	0.28	Average
4	0.348	37.58	59.00	-21.42	27.57	9.67	0.06	0.28	QP
5	0.428	40.17	47.29	-7.12	30.14	9.67	0.06	0.30	Average
6	0.428	43.57	57.29	-13.72	33.54	9.67	0.06	0.30	QP
7*	0.472	42.29	46.47	-4.18	32.24	9.67	0.07	0.31	Average
8	0.472	45.58	56.47	-10.89	35.53	9.67	0.07	0.31	QP
9	0.510	26.00	46.00	-20.00	15.95	9.67	0.07	0.31	Average
10	0.510	35.28	56.00	-20.72	25.23	9.67	0.07	0.31	QP
11	13.915	27.68	50.00	-22.32	17.03	9.74	0.43	0.48	Average
12	13.915	33.15	60.00	-26.85	22.50	9.74	0.43	0.48	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).

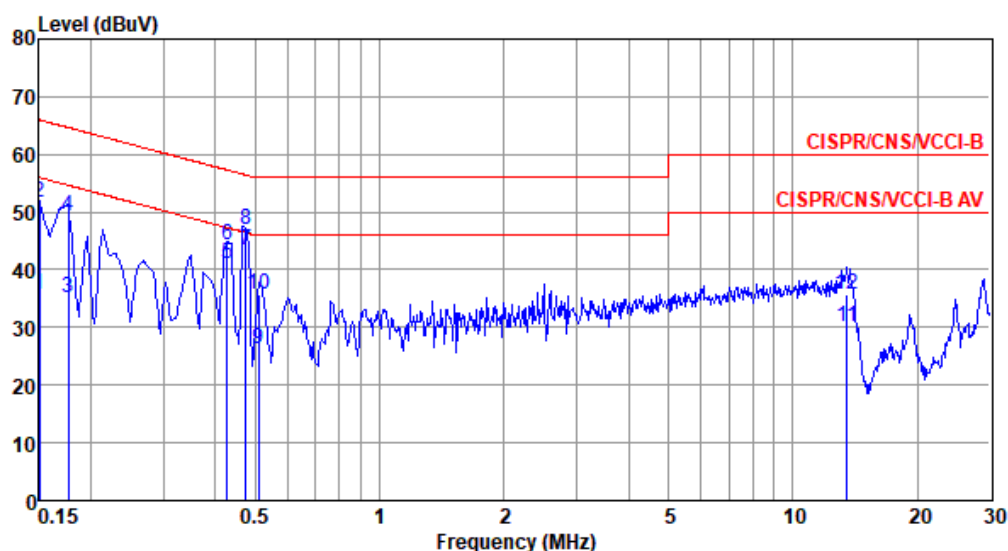


Modulation Mode	ax HE40	Test Freq. (MHz)	5795
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 20°C

Humidity: 63%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	35.64	56.00	-20.36	25.79	9.61	0.06	0.18	Average
2	0.150	51.77	66.00	-14.23	41.92	9.61	0.06	0.18	QP
3	0.177	35.06	54.64	-19.58	25.20	9.61	0.06	0.19	Average
4	0.177	49.22	64.64	-15.42	39.36	9.61	0.06	0.19	QP
5	0.428	40.89	47.29	-6.40	30.92	9.61	0.06	0.30	Average
6	0.428	44.28	57.29	-13.01	34.31	9.61	0.06	0.30	QP
7*	0.476	43.31	46.42	-3.11	33.32	9.61	0.07	0.31	Average
8	0.476	46.92	56.42	-9.50	36.93	9.61	0.07	0.31	QP
9	0.510	26.40	46.00	-19.60	16.41	9.61	0.07	0.31	Average
10	0.510	35.67	56.00	-20.33	25.68	9.61	0.07	0.31	QP
11	13.551	30.12	50.00	-19.88	19.49	9.73	0.42	0.48	Average
12	13.551	35.67	60.00	-24.33	25.04	9.73	0.42	0.48	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).