

FCC Test Report

FCC ID : I8803891

Equipment : AXE5400 Tri-Band WiFi 6E Mesh System
(Please refer to section 1.1.1 for more details)

Model No. : WSQ65
(Please refer to section 1.1.1 for more details)

Brand Name : ZYXEL

Applicant : Zyxel Communications Corporation

Address : No.2 Industry East RD. IX, Hsinchu Science
Park, Hsinchu 30075, Taiwan

Standard : 47 CFR FCC Part 15.407

Equipment Class / Type : ☒ 6ID: Indoor access point
☐ 6PP: Subordinate device
☐ 6XD: Client device

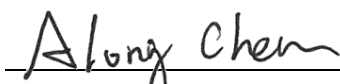
Received Date : Sep. 13, 2022

Tested Date : Sep. 27 ~ Oct. 25, 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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Release Record

Report No.	Version	Description	Issued Date
FR291302AO	Rev. 01	Initial issue	Dec. 02, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.150MHz 58.68 (Margin -7.32dB) - QP	Pass
15.407(b)(5) 15.209	Unwanted Emission	[dBuV/m at 3m]: 7125.00MHz 68.05 (Margin -0.15dB) - AV	Pass
15.407(b)(6)	In-Band Emissions (Mask)	Meet the requirement of limit	Pass
15.407(a)(10)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(a)(5)	RF Output Power (e.i.r.p)	Max Power [dBm]: Non-beamforming mode 5.925-6.425MHz: 23.82 6.425-6.525MHz: 23.81 6.525-6.875MHz: 23.85 6.875-7.125MHz: 23.45 Beamforming mode 5.925-6.425MHz: 20.81 6.425-6.525MHz: 20.80 6.525-6.875MHz: 20.84 6.875-7.125MHz: 20.44	Pass
15.407(a)(5)	Power Spectral Density (e.i.r.p)	Meet the requirement of limit	Pass
15.407(d)(6)	Contention Based Protocol	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 Product Details

The following models are provided to this EUT.

Product Name	Model	Description					
		DDR			Flash		
		Brand	Type	Size	Brand	Type	Size
AXE5400 Tri-Band WiFi 6E Mesh System	WSQ65	Kingston	D2516ECMD XGJD	512MB	MXIC	MX35UF1G2 4AD-Z4I	128MB
WiFi Mesh System	WSQ63						
Security Router	SCR 50AXE	ESMT	M15T8G1651 2A-DEBG2S	1024MB	Winbond	W25N02KW ZEIR	256MB

Note 1: The variation of WSQ65 and WSQ63 is for strategy of marketing. The circuit of each model is identical. Model **WSQ65** was selected as a representative for the final test and only its data was recorded in this report.

Note 2:
CPU Model No: IPQ5018
2.4G Chip Model: IPQ5018
5G Chip Model: QCN6102
6G Chip Model: QCN6122

1.1.2 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
5925 ~ 7125	ax (HE20)	5955 ~ 7115	1 ~ 233 [59]	2	MCS 0-11
5925 ~ 7125	ax (HE40)	5965 ~ 7085	3 ~ 227 [29]	2	MCS 0-11
5925 ~ 7125	ax (HE80)	5985 ~ 7025	7 ~ 215 [14]	2	MCS 0-11
5925 ~ 7125	ax (HE160)	6025 ~ 6985	15 ~ 207 [7]	2	MCS 0-11

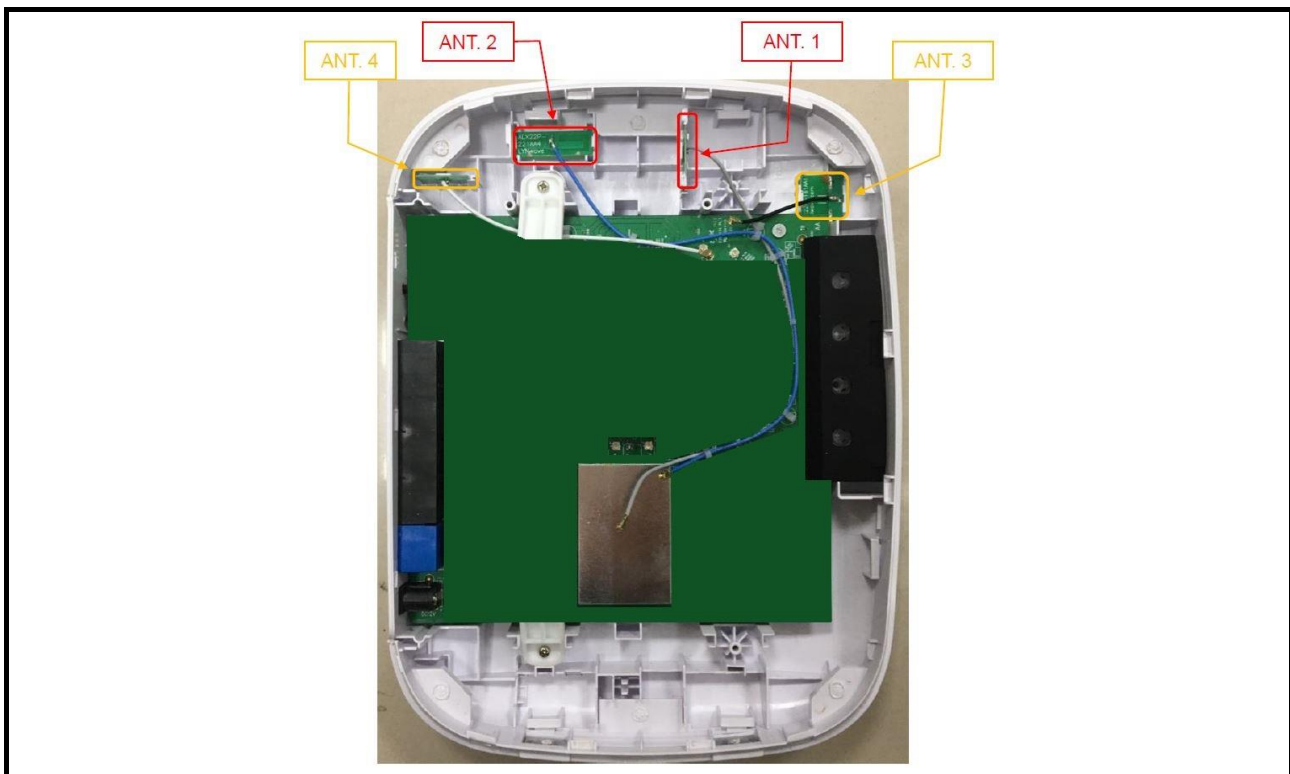
Note 1: BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.
Note 2: 802.11ax supports beamforming function.

1.1.3 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Gain (dBi)				
					2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	LYNwave	ALX22P-221AA4-00	Dipole	MHF compatible	2	2.3	2.9	2.6	2
2	LYNwave	ALX22P-221AA4-01	Dipole	MHF compatible	2	2.8	3.2	2.9	2.5

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Gain (dBi)			
					5925~6425	6425~6525	6525~6875	6875~7125
3	LYNwave	ALX22P-161AA1-00	Dipole	MHF compatible	3	4.7	3.5	3.2
4	LYNwave	ALX22P-161AA2-00	Dipole	MHF compatible	3.5	3.3	3.4	3

1.1.4 Antenna Port Location



1.1.5 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from AC adapter
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1.1.6 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: DVE Model: DSA-24PFS-12 FCA 120200 I/P: 100-240Vac, 50/60Hz, 0.8A O/P: 12V=2.0A, 24.0W Power Line: DC 1.5m non-shielded without core
2	Ethernet Cable	1.5m non-shielded without core

1.1.7 Channel List

802.11a ax HE20							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5955	61	6255	121	6555	181	6855
5	5975	65	6275	125	6575	185	6875
9	5995	69	6295	129	6595	189	6895
13	6015	73	6315	133	6615	193	6915
17	6035	77	6335	137	6635	197	6935
21	6055	81	6355	141	6655	201	6955
25	6075	85	6375	145	6675	205	6975
29	6095	89	6395	149	6695	209	6995
33	6115	93	6415	153	6715	213	7015
37	6135	97	6435	157	6735	217	7035
41	6155	101	6455	161	6755	221	7055
45	6175	105	6475	165	6775	225	7075
49	6195	109	6495	169	6795	229	7095
53	6215	113	6515	173	6815	233	7115
57	6235	117	6535	177	6835	--	--

802.11a ax HE40							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	5965	67	6285	131	6605	195	6925
11	6005	75	6325	139	6645	203	6965
19	6045	83	6365	147	6685	211	7005
27	6085	91	6405	155	6725	219	7045
35	6125	99	6445	163	6765	227	7085
43	6165	107	6485	171	6805	---	---
51	6205	115	6525	179	6845	---	---
59	6245	123	6565	187	6885	---	---

802.11a ax HE80							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
7	5985	71	6305	135	6625	199	6945
23	6065	87	6385	151	6705	215	7025
39	6145	103	6465	167	6785	---	---
55	6225	119	6545	183	6865	---	---

802.11a ax HE160							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
15	6025	79	6345	143	6665	207	6985
47	6185	111	6505	175	6825	---	---

1.1.8 Test Tool and Duty Cycle

Test Tool	QSPR, V5.0.0-00197		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	ax HE20	99.99%	0.00
	ax HE40	99.99%	0.00
	ax HE80	99.99%	0.00
	ax HE160	99.99%	0.00



1.1.9 Power Index of Test Tool

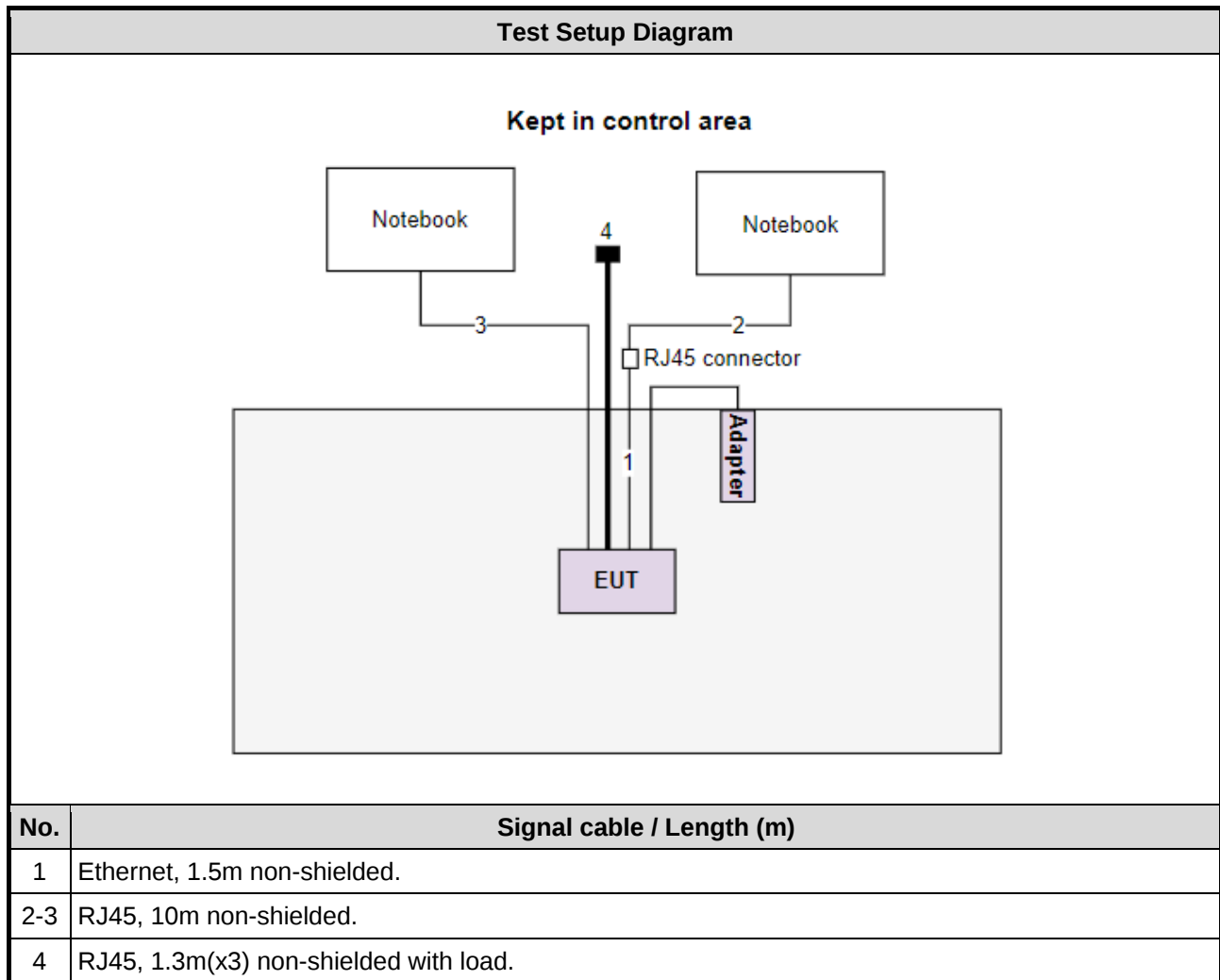
Modulation Mode	Test Frequency (MHz)	Power Index
ax HE20	5955	11.5
ax HE20	6175	11.5
ax HE20	6415	11
ax HE20	6435	10.5
ax HE20	6475	10.5
ax HE20	6515	10
ax HE20	6535	11
ax HE20	6715	11
ax HE20	6855	11.5
ax HE20	6875	11.5
ax HE20	6895	11.5
ax HE20	7015	12
ax HE20	7095	12
ax HE20	7115	4.5
ax HE40	5965	14
ax HE40	6165	14
ax HE40	6405	14
ax HE40	6445	13
ax HE40	6485	12.5
ax HE40	6525	12.5
ax HE40	6565	14
ax HE40	6725	14
ax HE40	6845	13.5
ax HE40	6885	13.5
ax HE40	6925	13.5
ax HE40	7005	14.5
ax HE40	7085	14.5

Modulation Mode	Test Frequency (MHz)	Power Index
ax HE80	5985	16.5
ax HE80	6145	16.5
ax HE80	6385	16.5
ax HE80	6465	15.5
ax HE80	6545	15
ax HE80	6625	16.5
ax HE80	6705	16.5
ax HE80	6785	16
ax HE80	6865	16
ax HE80	6945	16
ax HE80	7025	17
ax HE160	6025	18
ax HE160	6185	19
ax HE160	6345	19
ax HE160	6505	17.5
ax HE160	6665	18.5
ax HE160	6825	18.5
ax HE160	6985	18.5

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DZSHVF2	---
2	Notebook	DELL	Latitude 5400	9TYCM33	---
3	RJ45 Load	ICC	RJ45 Load	---	---
4	RJ45 Connector	ICC	RJ45 Connector	---	---
5	RJ45 cable (x3)	ICC	RJ45-1.3m	---	---
6	RJ45 cable (x2)	ICC	RJ45-10m	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Oct. 11, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	NSLK 8127	8127667	Jan .07, 2022	Jan .06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 10, 2022	May 09, 2023
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Sep. 27 ~ Sep. 29, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101499	Mar. 08, 2022	Mar. 07, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jun. 28, 2022	Jun. 27, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 20, 2021	Dec. 19, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045SE	980897	Aug. 01, 2022	Jul. 31, 2023
Preamplifier	EMC	EMC184045SE	980903	Jul. 16, 2022	Jul. 15, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 23, 2022	Sep. 22, 2023
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 23, 2022	Sep. 22, 2023
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 23, 2022	Sep. 22, 2023
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 23, 2022	Sep. 22, 2023
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 23, 2022	Sep. 22, 2023
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. 20 ~ 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-15247_DTS	V5.10	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Contention Based Protocol				
Test Site	(TH01-WS)				
Tested Date	Sep. 27 ~ Sep. 29, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2022	Apr. 17, 2023
AWGN Signal Generator	R&S	SMW200A	109619	Jul. 26, 2022	Jul. 25, 2023
Splitter	woken	0120A02201801O	DOM2AEW1A23	Oct. 15, 2021	Oct. 14, 2022
Directional Coupler	KRYTAR	180120	146890	Oct. 15, 2021	Oct. 14, 2022
RF Cable	WOKEN	woken-S05	S05-141231-110	Aug. 31, 2022	Aug. 30, 2023
RF Cable	EMC	EMC105SFF-SM-SM-2000	210816	Aug. 31, 2022	Aug. 30, 2023
RF Cable	EMC	EMC104-SM-SM-8000	181106	Aug. 31, 2022	Aug. 30, 2023
Attenuator	woken	PE7013-10	10-1	Oct. 15, 2021	Oct. 14, 2022
Attenuator	woken	PE7013-20	20-1	Oct. 15, 2021	Oct. 14, 2022
Measurement Software	NA	NA	NA	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 987594 D02 U-NII 6GHz EMC Measurement v01r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Radiated emission ≤ 1 GHz	± 3.96 dB
Radiated emission > 1 GHz	± 4.51 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corp.
Test Site	CO01-WS, TH01-WS
Address of Test Site	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.
Test Site	03CH03-WS
Address of Test Site	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807C
- CAB identifier: TW2732

2.2 Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emissions	ax HE160	6345	MCS 0	---
Unwanted Emissions ≤1GHz	ax HE160	6345	MCS 0	---
Unwanted Emissions >1GHz RF Output Power Emission Bandwidth Peak Power Spectral Density	ax HE20	5955 / 6175 / 6415 / 6435 / 6475 / 6515 / 6535 / 6715 / 6855 / 6875 / 6895 / 7015 / 7095 / 7115	MCS 0	---
	ax HE40	5965 / 6165 / 6405 / 6445 / 6485 6525 / 6565 / 6725 / 6845 / 6885 6925 / 7005 / 7085	MCS 0	
	ax HE80	5985 / 6145 / 6385 / 6465 / 6545 6625 / 6705 / 6785 / 6865 / 6945 7025	MCS 0	
	ax HE160	6025 / 6185 / 6345 / 6505 / 6665 6825 / 6985	MCS 0	
Contention Based Protocol	ax HE20	6195 / 6475 / 6695 / 6995	MCS 0	---
	ax HE160	6185 / 6505 / 6665 / 6985	MCS 0	
Frequency Stability	Un-modulation	6475 / 7015	---	---
Beamforming mode				
RF Output Power	ax HE20	5955 / 6175 / 6415 / 6435 / 6475 / 6515 / 6535 / 6715 / 6855 / 6875 / 6895 / 7015 / 7095 / 7115	MCS 0	---
	ax HE40	5965 / 6165 / 6405 / 6445 / 6485 6525 / 6565 / 6725 / 6845 / 6885 6925 / 7005 / 7085	MCS 0	
	ax HE80	5985 / 6145 / 6385 / 6465 / 6545 6625 / 6705 / 6785 / 6865 /6945 7025	MCS 0	
	ax HE160	6025 / 6185 / 6345 / 6505 / 6665 6825 / 6985	MCS 0	
NOTE:				
1. Two models (WSQ65 & SCR 50AXE) had been covered during the pretest and found that model WSQ65 was the worst case and was selected for final testing.				

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

3.1.2 Test Procedures

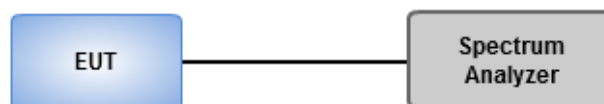
26dB Bandwidth

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.

3.1.3 Test Setup



3.1.4 Test Result

Ambient Condition	22~24°C / 64~67%	Tested By	Aska Huang
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Refer to Appendix A.

3.2 RF Output Power

3.2.1 Limit

Frequency Band	Operating Mode	Maximum EIRP Limit
5925 ~ 7125 MHz	☒ Indoor access point	30 dBm
	☐ Subordinate device	30 dBm
	☐ Client devices	24 dBm

3.2.2 Test Procedures

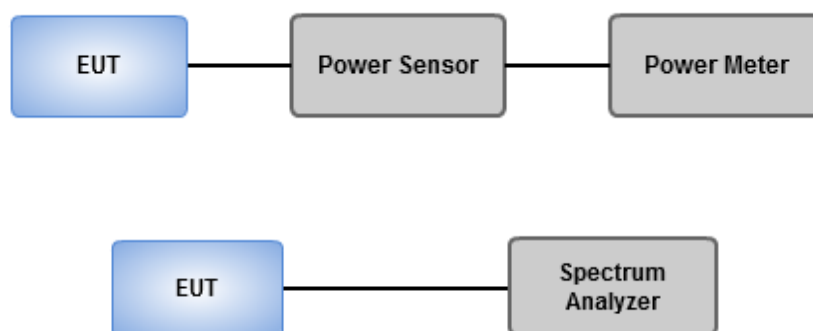
Method PM-G (Measurement using a gated RF average power meter)

1. 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.
2. $EIRP = \text{Measured conducted power} + \text{Antenna gain}$

Spectrum analyzer (For channel that extends across the 6.525 / 6.875 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 $10 \log(1/X, X:\text{duty cycle})$ if duty cycle is $<98\%$.
5. $EIRP = \text{Measured conducted power} + \text{Antenna gain}$

3.2.3 Test Setup



3.2.4 Test Result

Ambient Condition	22~24°C / 64~67%	Tested By	Aska Huang
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Refer to Appendix B.

3.3 Peak Power Spectral Density

3.3.1 Limit

Frequency Band	Operating Mode	Limit
5925 ~ 7125 MHz	☒ Indoor access point	EIRP: 5 dBm / 1 MHz
	☐ Subordinate device	EIRP: 5 dBm / 1 MHz
	☐ Client devices	EIRP: -1 dBm / 1 MHz

3.3.2 Test Procedures

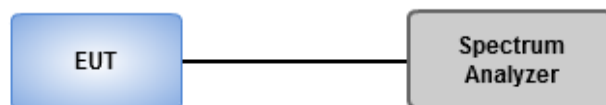
Duty cycle $\geq$ 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.
4. EIRP PSD = Measured conducted power density + Antenna gain

Duty cycle < 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times$ (number of points in sweep) $\times$ (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.
6. EIRP PSD = Measured conducted power density + Antenna gain

3.3.3 Test Setup



3.3.4 Test Result

Ambient Condition	22~24°C / 64~67%	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	PK Limit	AV Limit
5.925 – 7.125 GHz	e.i.r.p. -7 dBm [88.2 dBuV/m@3m]	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

3.4.2 Test Procedures

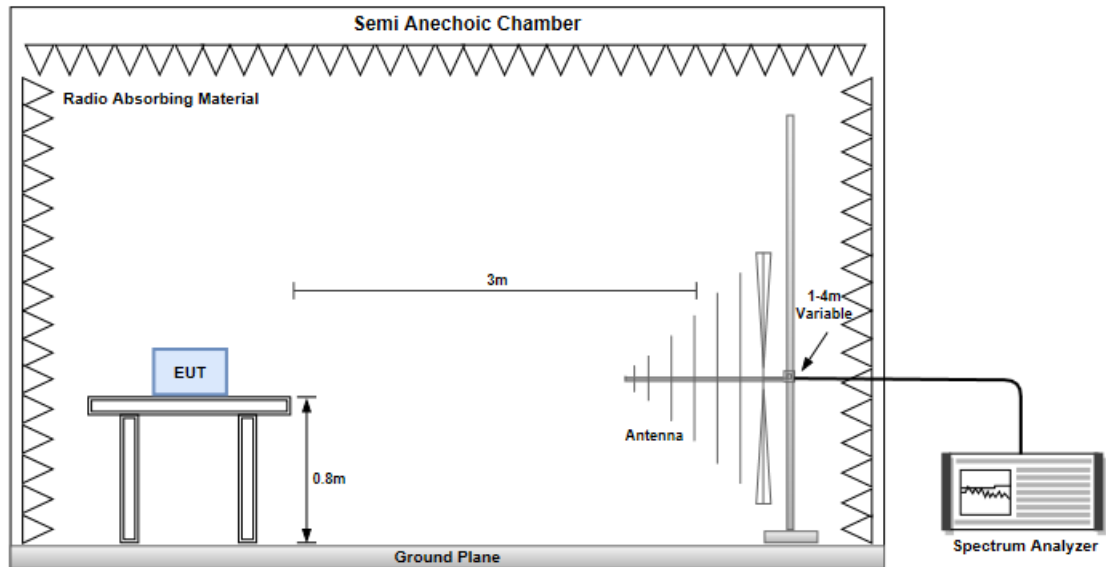
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

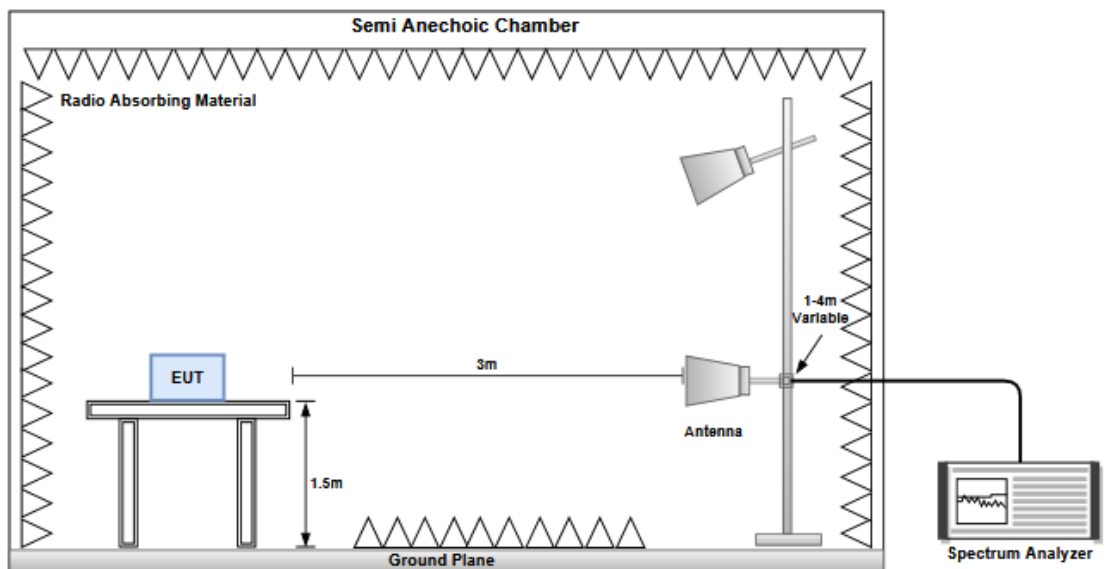
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



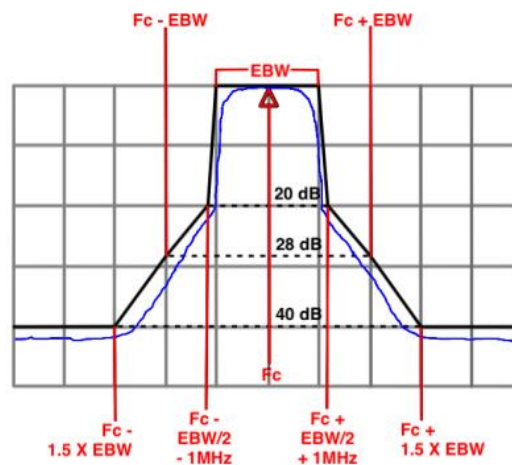
3.4.4 Test Results

Refer to Appendix D.

3.5 In-Band Emissions

3.5.1 Limit

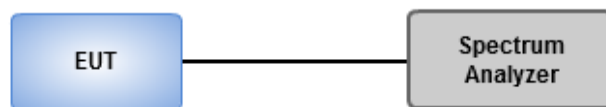
Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.



3.5.2 Test Procedures

1. Connect output of the antenna port to a spectrum analyzer
2. Set the reference level of the measuring equipment
3. Measure the 26 dB EBW
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	22~24°C / 64~67%	Tested By	Aska Huang
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Refer to Appendix E.

3.6 Frequency Stability

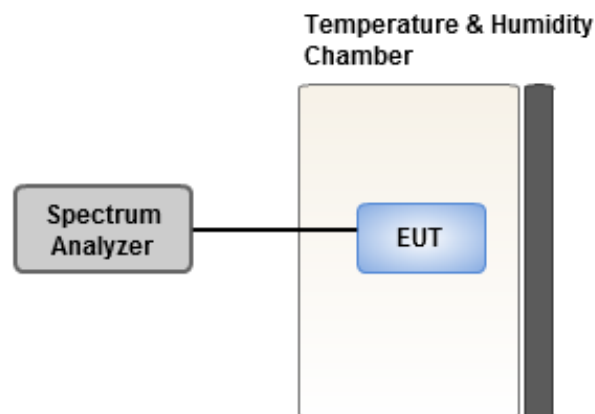
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Ambient Condition	22~24°C / 64~67%	Tested By	Aska Huang
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Refer to Appendix F.

3.7 Contention Based Protocol

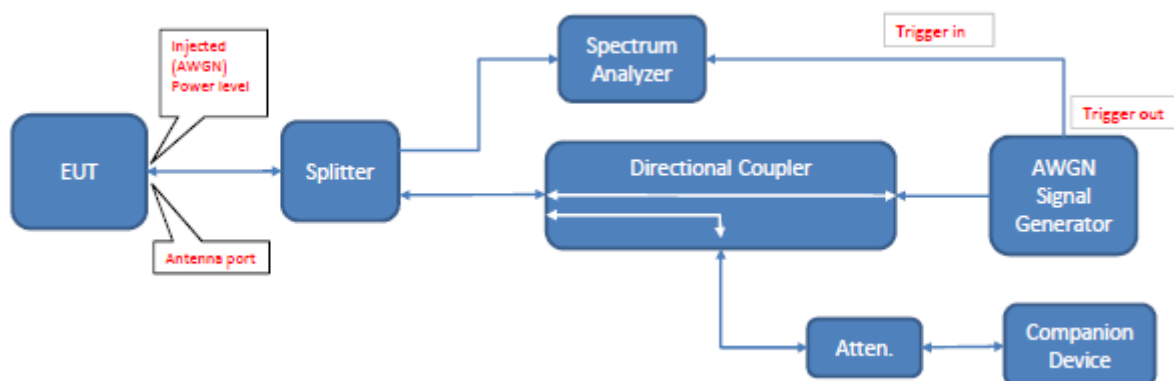
3.7.1 Limit

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty

3.7.2 Test Procedure

1. Configure the EUT to transmit with a constant duty cycle
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

3.7.3 Test Setup



3.7.4 Test Result

Ambient Condition	23°C / 66%	Tested By	Aska Huang
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Refer to Appendix G.

3.8 AC Power Line Conducted Emissions

3.8.1 Limit of AC Power Line Conducted Emissions

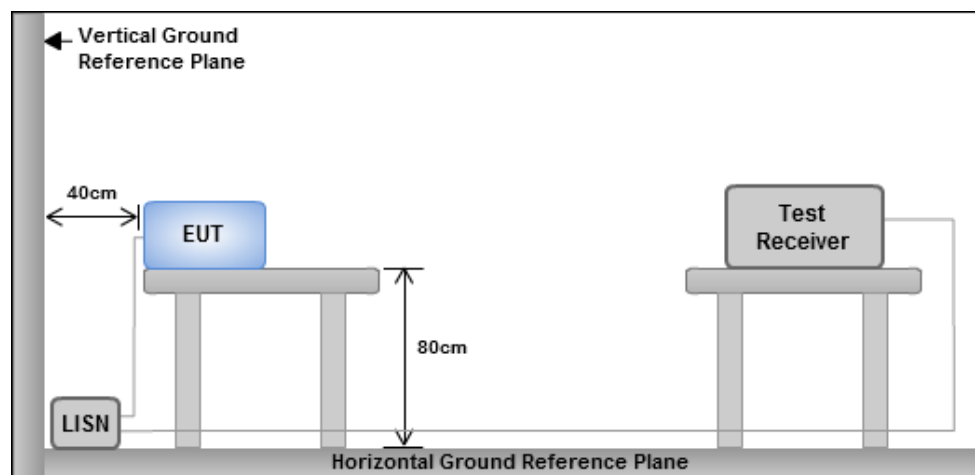
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.8.2 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

3.8.3 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

3.8.4 Test Result

Refer to Appendix H.

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)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.27M	18.865M	18M9D1D	20.79M	18.836M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.5M	37.613M	37M6D1D	40.14M	37.554M
802.11ax HEW80_Nss2,(MCS0)_2TX	82.08M	76.99M	77M0D1D	81.24M	76.637M
802.11ax HEW160_Nss2,(MCS0)_2TX	166.32M	155.39M	155MD1D	164.4M	153.979M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.12M	18.865M	18M9D1D	20.58M	18.836M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.32M	37.613M	37M6D1D	40.02M	37.541M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.72M	76.754M	76M8D1D	81.12M	76.642M
802.11ax HEW160_Nss2,(MCS0)_2TX	165.84M	154.963M	155MD1D	165.6M	154.963M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.06M	18.865M	18M9D1D	20.64M	18.801M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.56M	37.554M	37M6D1D	39.96M	37.496M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.72M	76.882M	76M9D1D	80.88M	76.637M
802.11ax HEW160_Nss2,(MCS0)_2TX	166.32M	154.963M	155MD1D	165.12M	154.449M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.12M	18.865M	18M9D1D	20.82M	18.836M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.32M	37.613M	37M6D1D	39.96M	37.496M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.48M	76.754M	76M8D1D	81.24M	76.637M
802.11ax HEW160_Nss2,(MCS0)_2TX	165.84M	154.919M	155MD1D	165.12M	154.919M

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)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21M	18.865M	20.79M	18.836M
6175MHz	Pass	Inf	20.94M	18.836M	20.94M	18.836M
6415MHz	Pass	Inf	21.12M	18.865M	21.27M	18.836M
6435MHz	Pass	Inf	20.85M	18.836M	20.91M	18.865M
6475MHz	Pass	Inf	20.82M	18.836M	20.91M	18.836M
6515MHz	Pass	Inf	21.12M	18.836M	20.58M	18.836M
6535MHz	Pass	Inf	20.82M	18.836M	21.06M	18.836M
6715MHz	Pass	Inf	20.85M	18.836M	20.79M	18.865M
6855MHz	Pass	Inf	20.88M	18.865M	20.85M	18.836M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	20.94M	18.801M	20.64M	18.861M
6895MHz	Pass	Inf	21M	18.865M	20.88M	18.865M
7015MHz	Pass	Inf	20.88M	18.836M	20.88M	18.836M
7095MHz	Pass	Inf	20.85M	18.836M	20.82M	18.836M
7115MHz	Pass	Inf	21.12M	18.836M	20.82M	18.836M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	40.38M	37.554M	40.5M	37.554M
6165MHz	Pass	Inf	40.2M	37.613M	40.14M	37.554M
6405MHz	Pass	Inf	40.44M	37.554M	40.2M	37.554M
6445MHz	Pass	Inf	40.32M	37.554M	40.08M	37.613M
6485MHz	Pass	Inf	40.08M	37.613M	40.08M	37.613M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	40.02M	37.601M	40.08M	37.541M
6565MHz	Pass	Inf	40.08M	37.554M	40.56M	37.554M
6725MHz	Pass	Inf	40.38M	37.496M	40.02M	37.554M
6845MHz	Pass	Inf	40.14M	37.496M	40.14M	37.554M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	40.26M	37.541M	39.96M	37.541M
6925MHz	Pass	Inf	40.2M	37.613M	40.32M	37.554M
7005MHz	Pass	Inf	40.14M	37.554M	39.96M	37.613M
7085MHz	Pass	Inf	40.26M	37.554M	40.08M	37.496M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	82.08M	76.99M	82.08M	76.872M
6145MHz	Pass	Inf	81.72M	76.754M	81.24M	76.754M
6385MHz	Pass	Inf	81.6M	76.637M	81.84M	76.754M
6465MHz	Pass	Inf	81.72M	76.754M	81.36M	76.754M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	81.48M	76.642M	81.12M	76.642M
6625MHz	Pass	Inf	81.24M	76.754M	80.88M	76.637M
6705MHz	Pass	Inf	81.24M	76.754M	81.36M	76.637M
6785MHz	Pass	Inf	81.6M	76.754M	81.6M	76.754M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	81.72M	76.882M	81.24M	76.762M
6945MHz	Pass	Inf	81.48M	76.754M	81.48M	76.637M
7025MHz	Pass	Inf	81.24M	76.754M	81.36M	76.754M
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
6025MHz	Pass	Inf	165.36M	154.449M	164.4M	153.979M
6185MHz	Pass	Inf	165.6M	154.684M	165.84M	155.39M
6345MHz	Pass	Inf	166.32M	154.919M	164.64M	154.684M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	165.84M	154.963M	165.6M	154.963M
6665MHz	Pass	Inf	165.6M	154.449M	165.12M	154.449M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	166.32M	154.963M	165.36M	154.483M
6985MHz	Pass	Inf	165.84M	154.919M	165.12M	154.919M

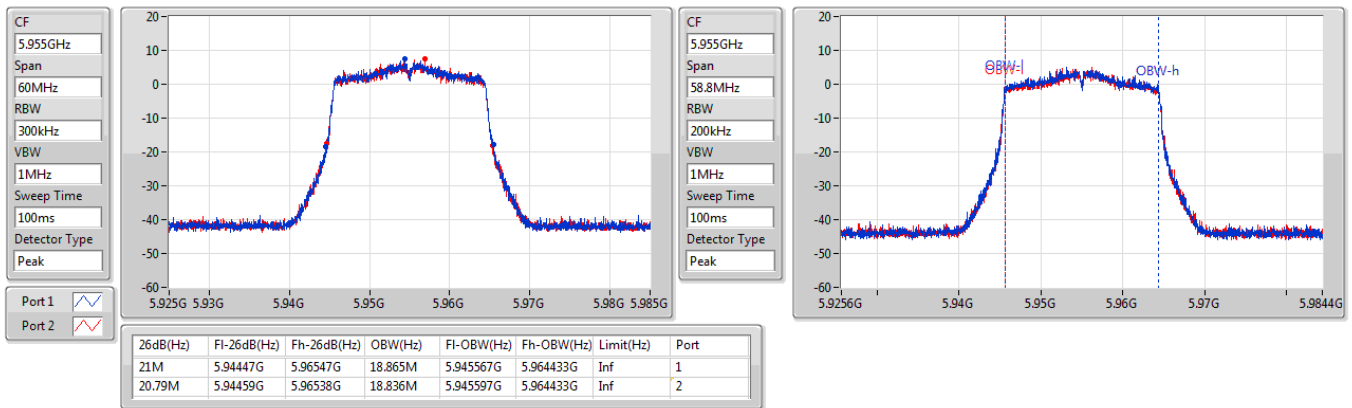
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

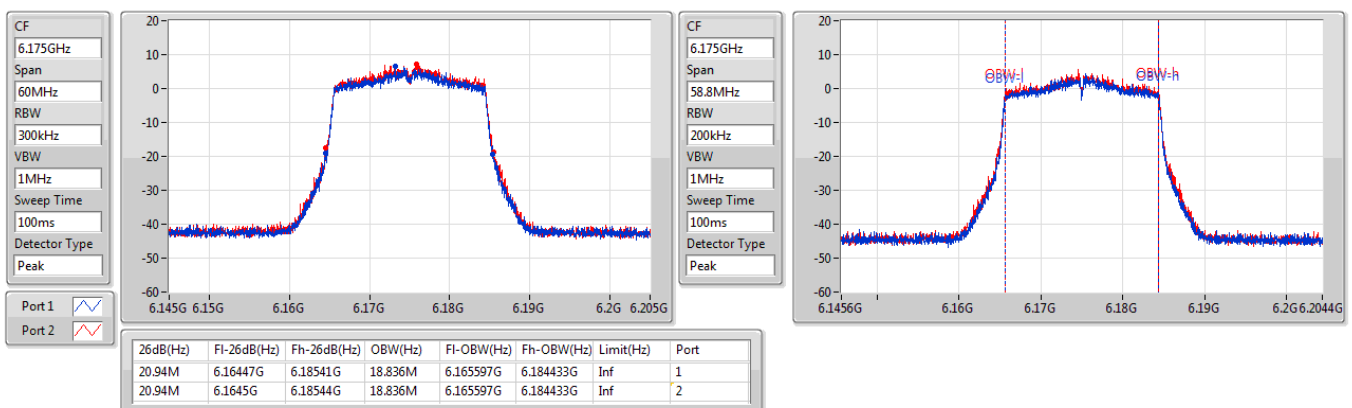
5955MHz



5.925-6.425GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

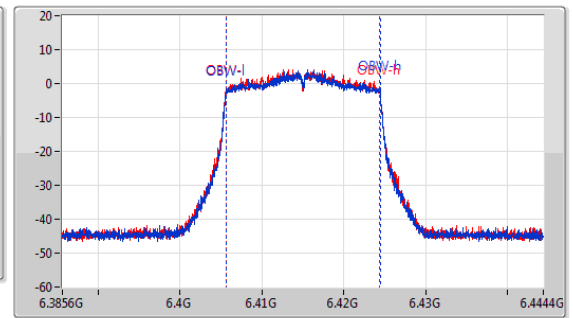
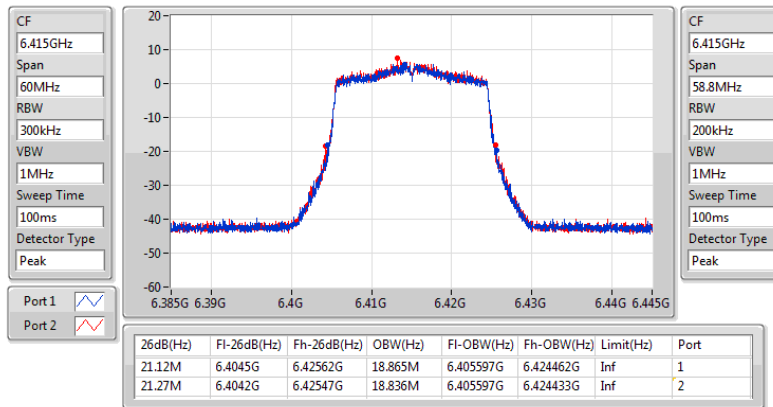
6175MHz



5.925-6.425GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

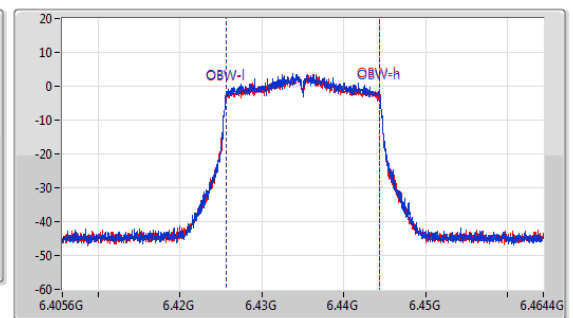
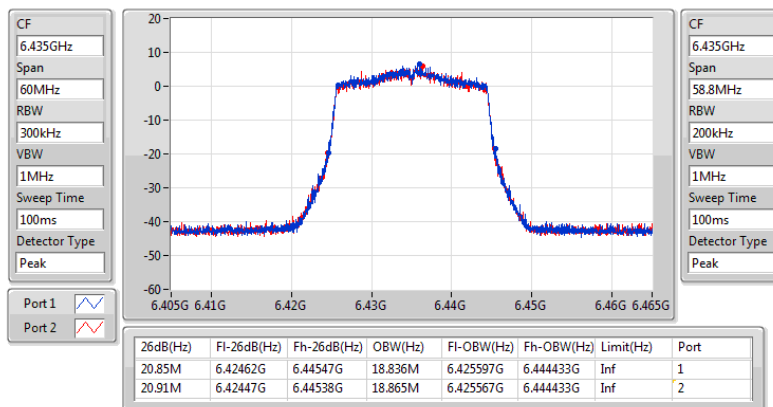
6415MHz



6.425-6.525GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

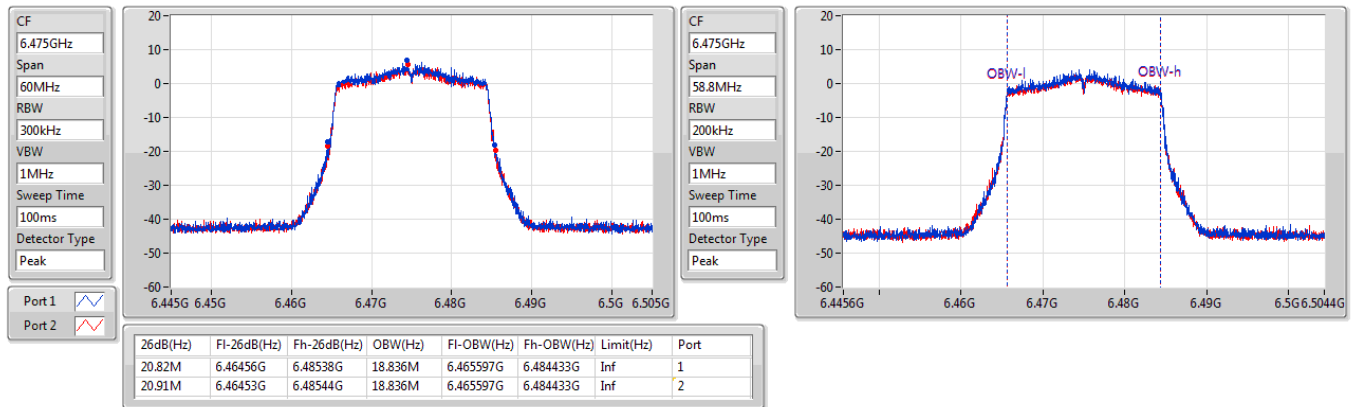
6435MHz



6.425-6.525GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

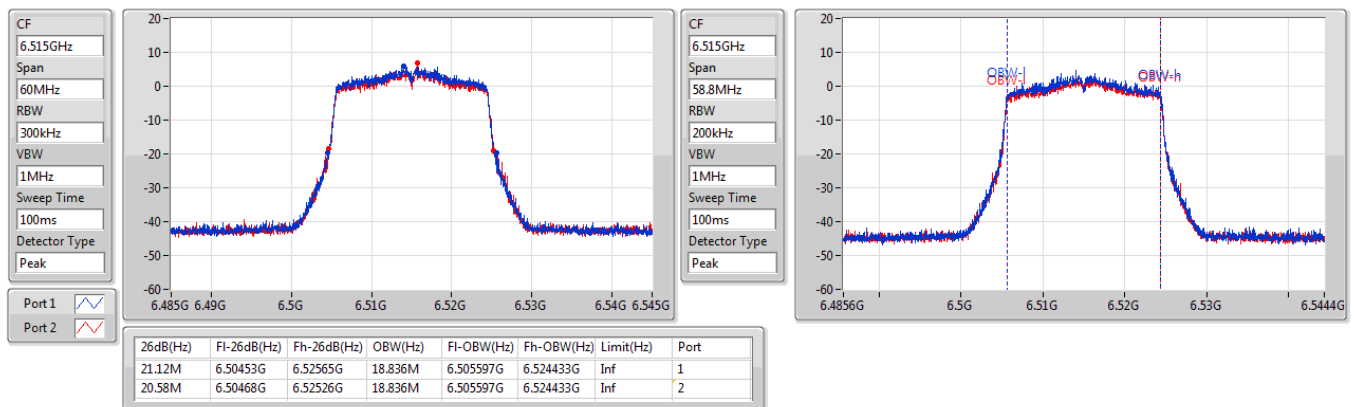
6475MHz



6.425-6.525GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

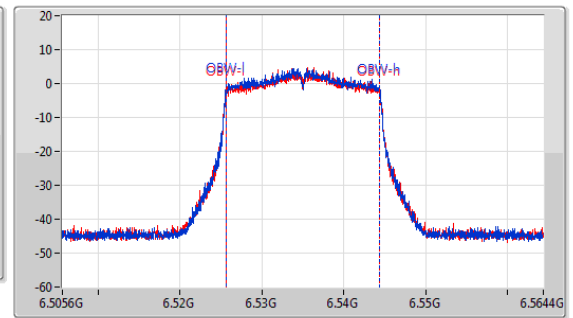
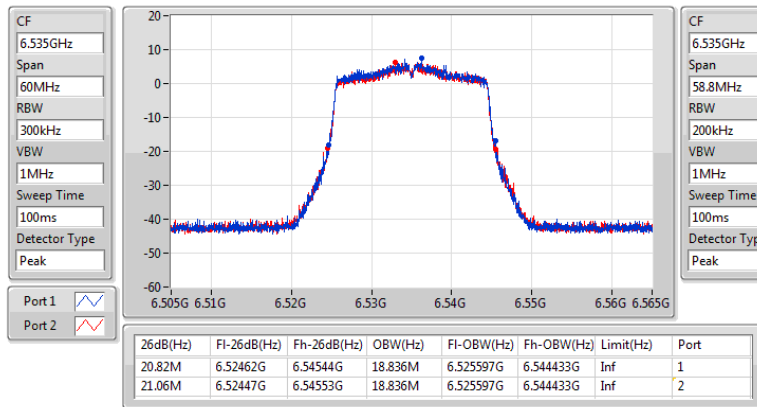
6515MHz



6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

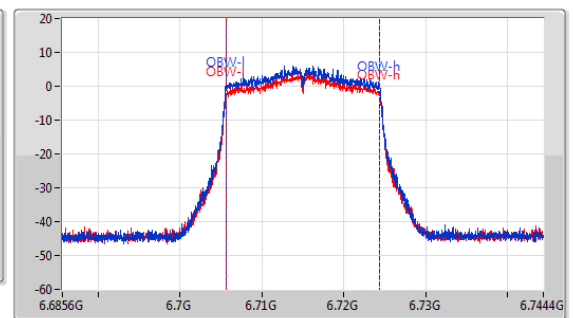
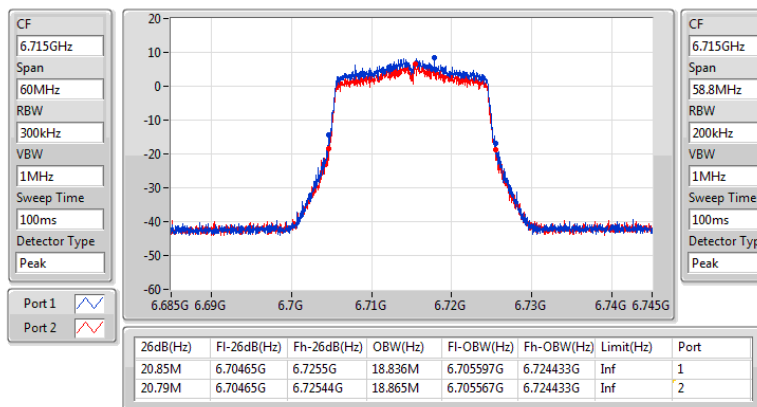
6535MHz



6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

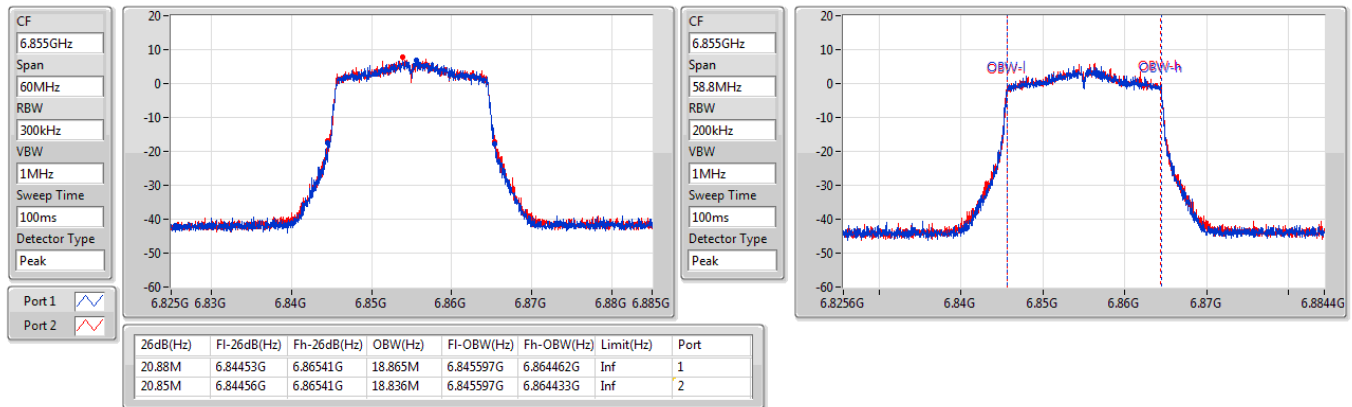
EBW

6715MHz



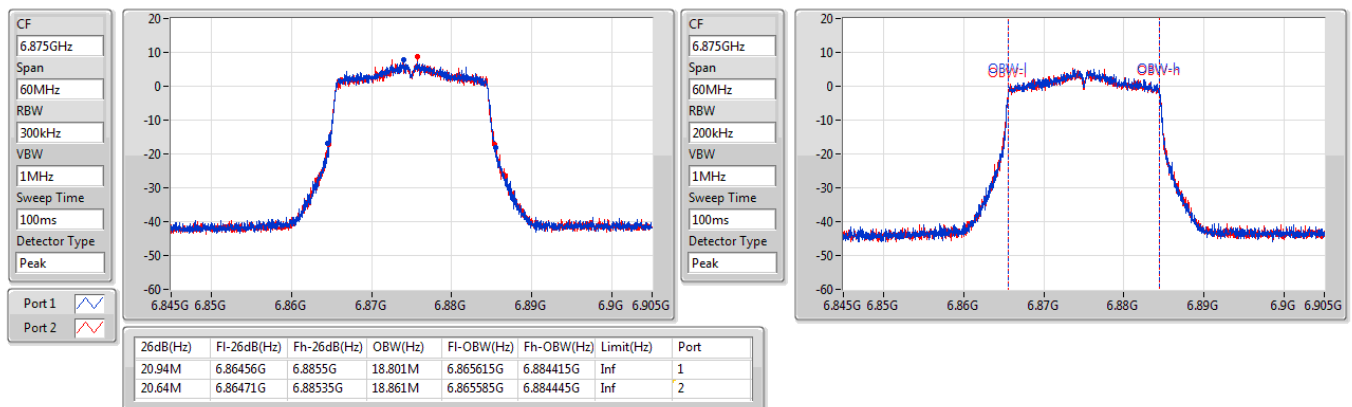
6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX 6855MHz

EBW



6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX 6875MHz Straddle 6.525-6.875GHz

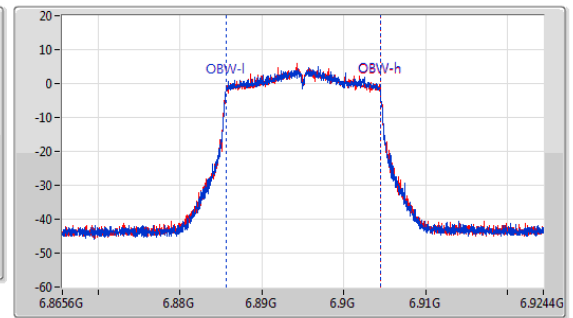
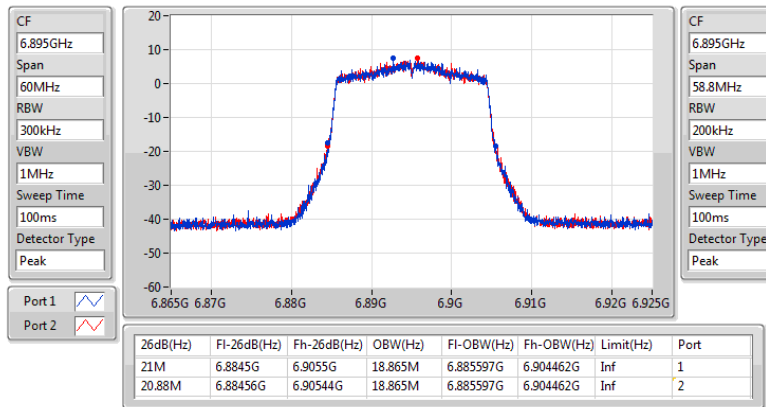
EBW



6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

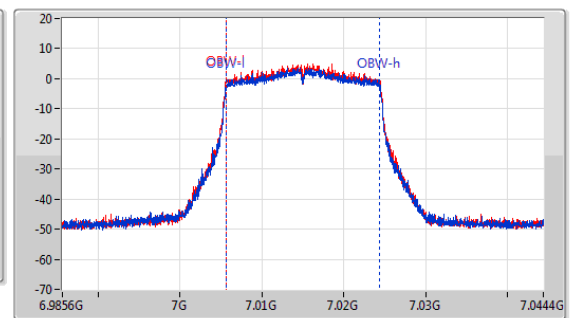
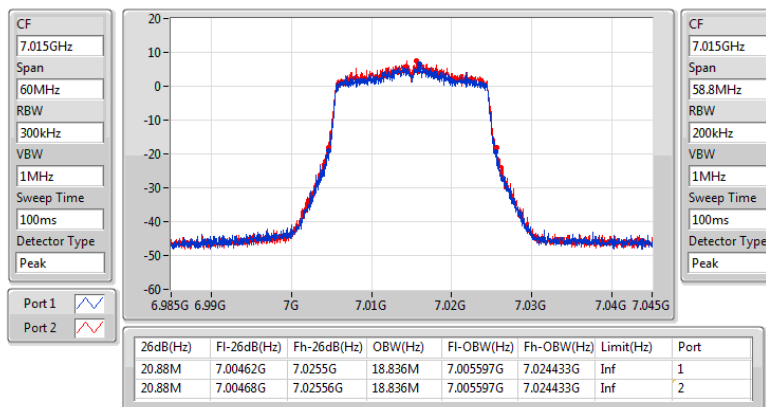
6895MHz



6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

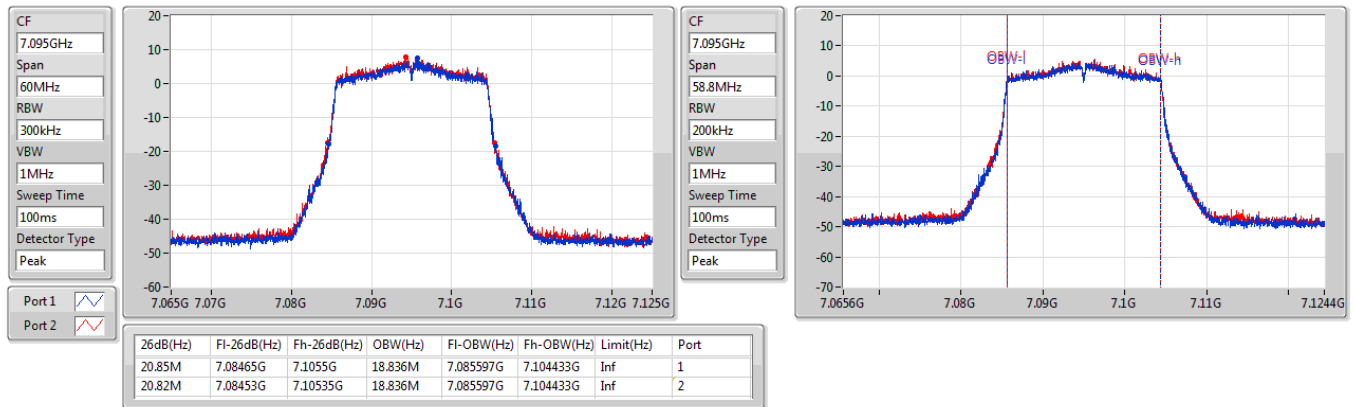
EBW

7015MHz



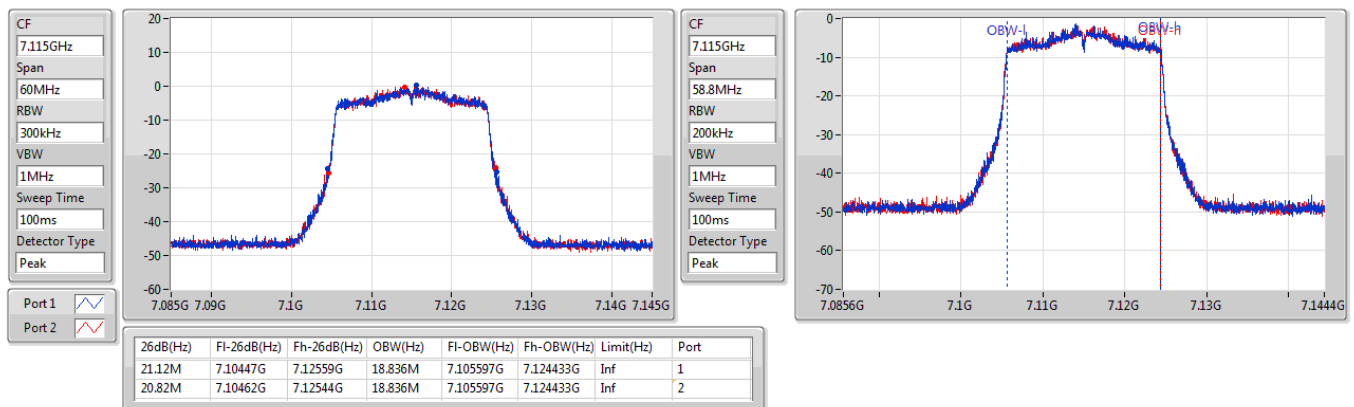
6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX 7095MHz

EBW



6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX 7115MHz

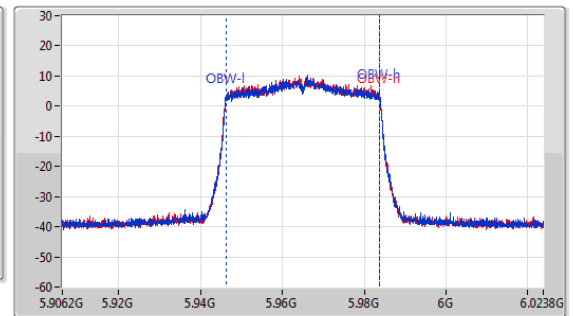
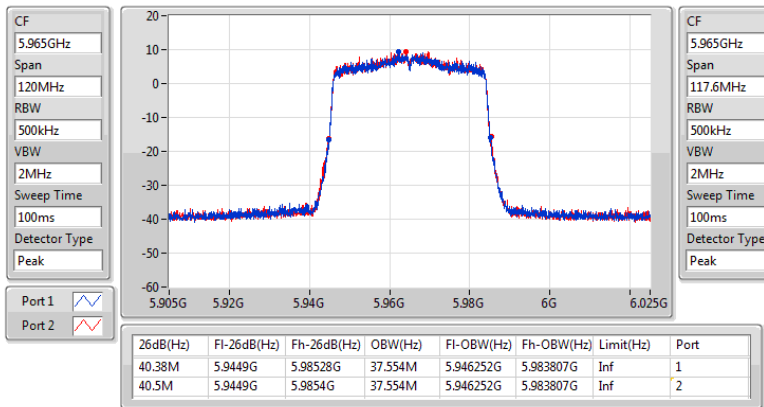
EBW



5.925-6.425GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

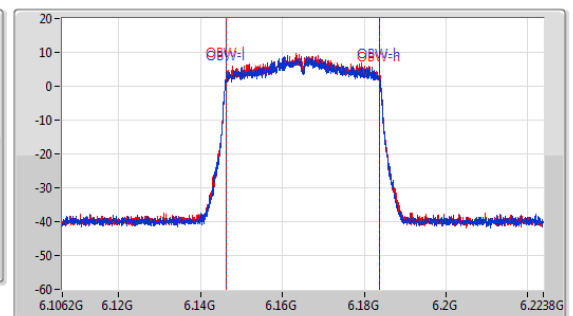
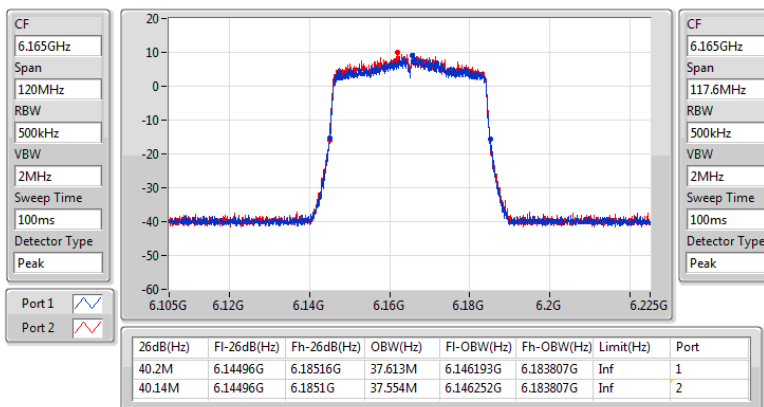
5965MHz



5.925-6.425GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

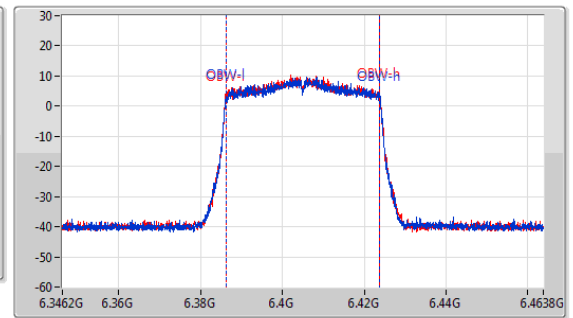
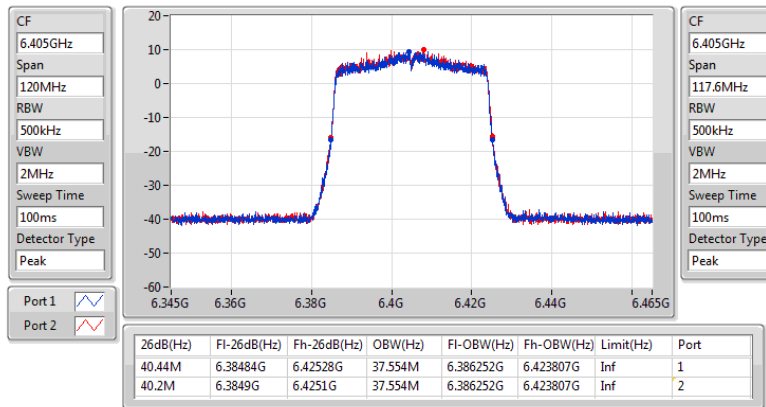
6165MHz



5.925-6.425GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

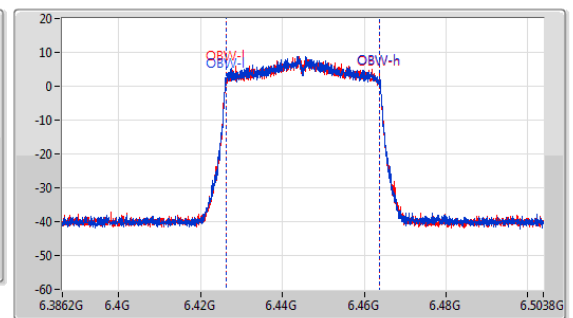
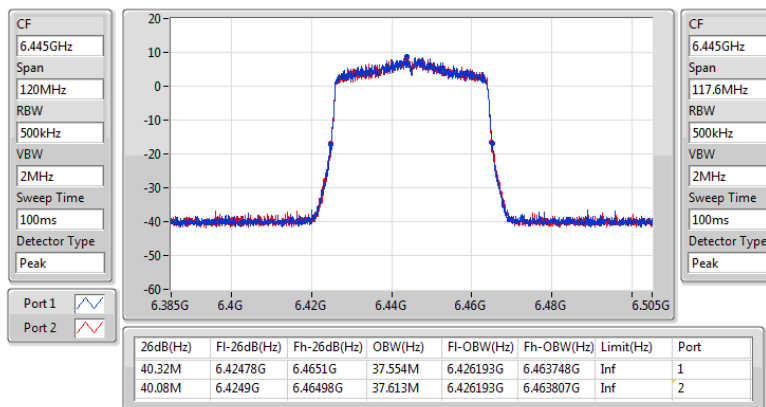
6405MHz



6.425-6.525GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

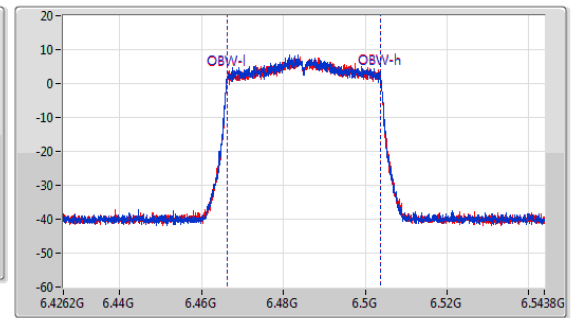
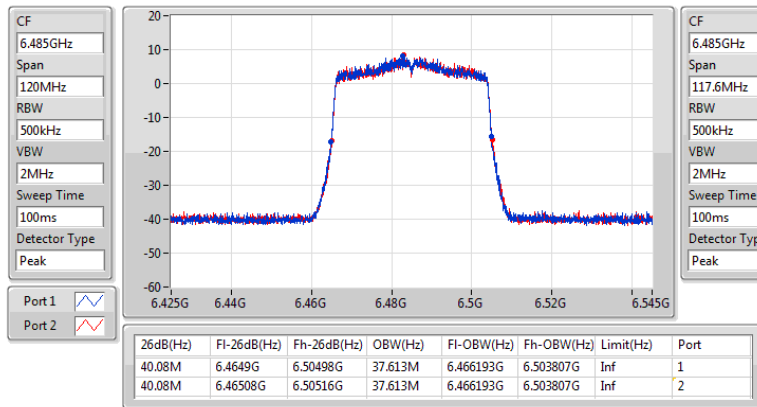
6445MHz



6.425-6.525GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

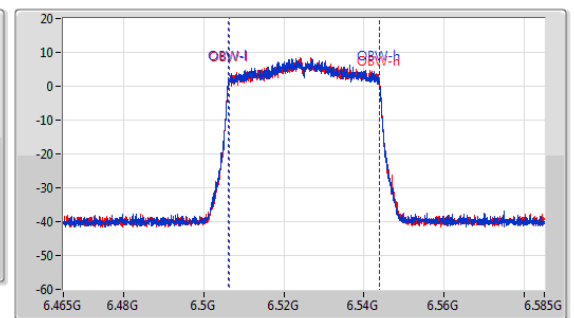
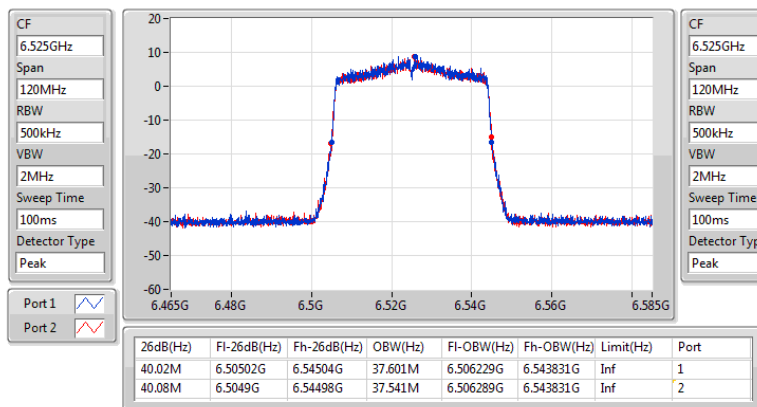
6485MHz



6.425-6.525GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

6525MHz Straddle 6.425-6.525GHz

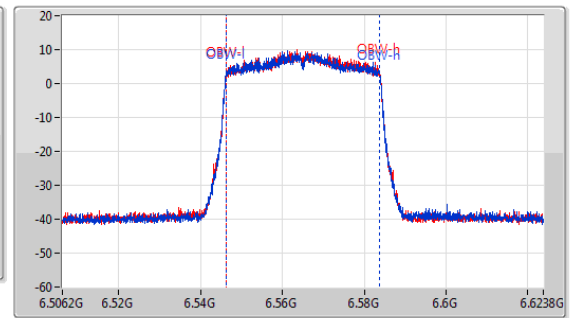
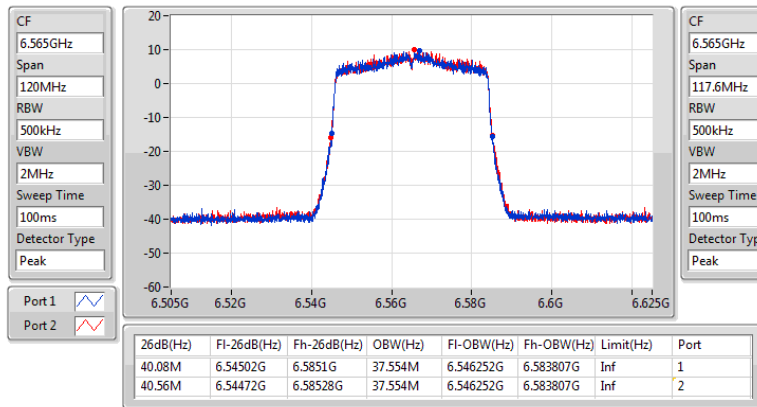




6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

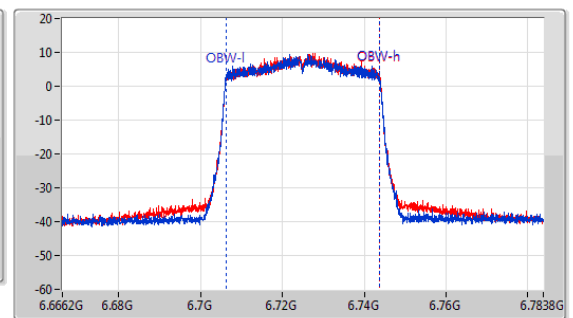
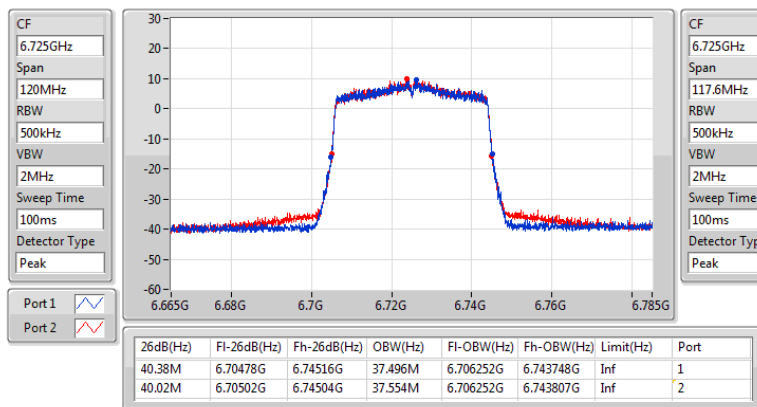
6565MHz



6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

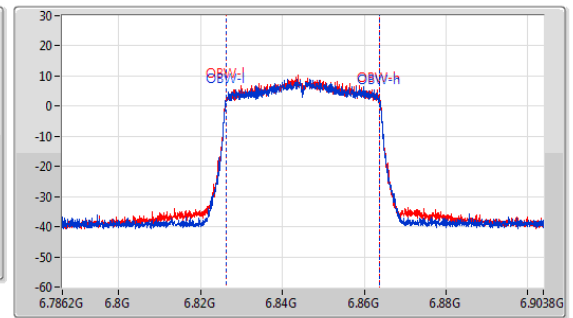
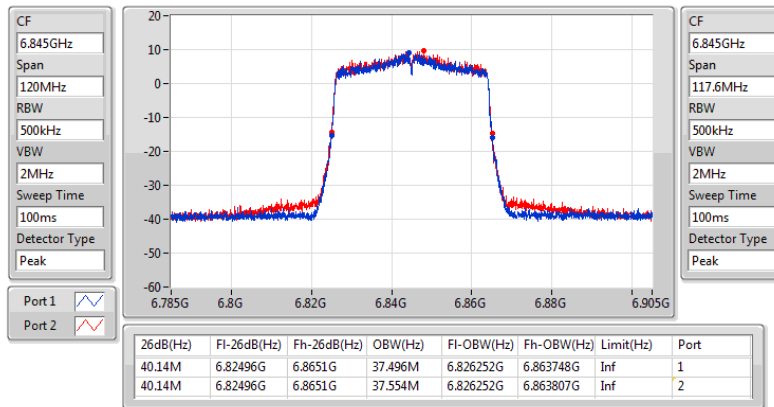
EBW

6725MHz



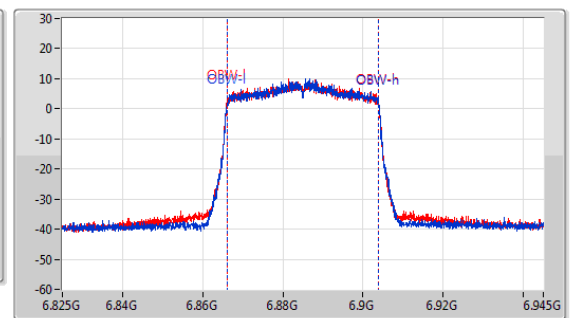
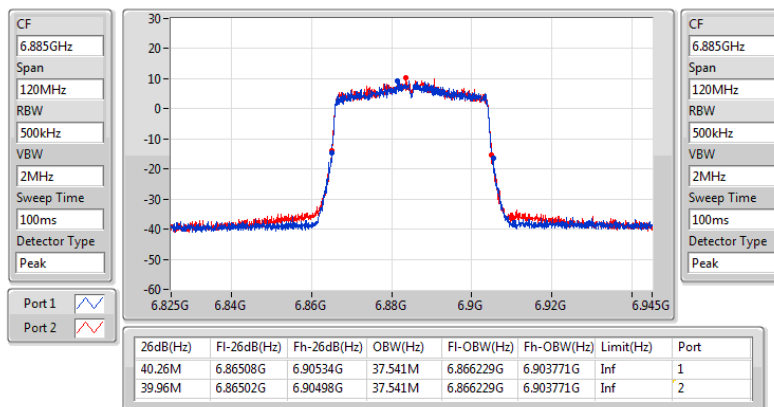
6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX 6845MHz

EBW



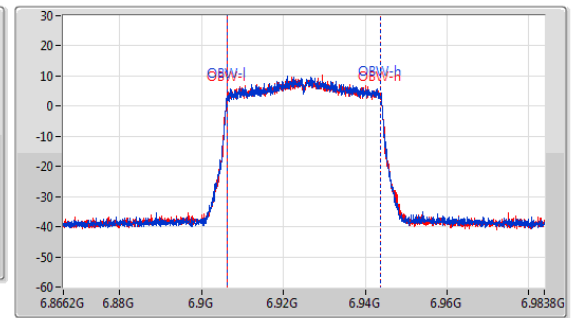
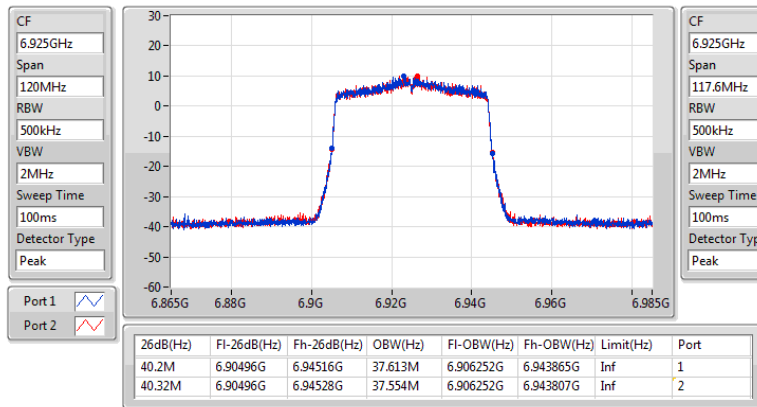
6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX 6885MHz Straddle 6.525-6.875GHz

EBW



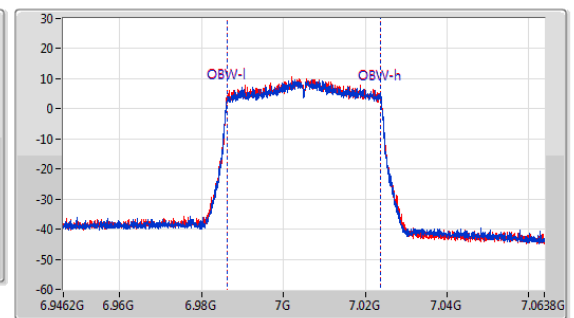
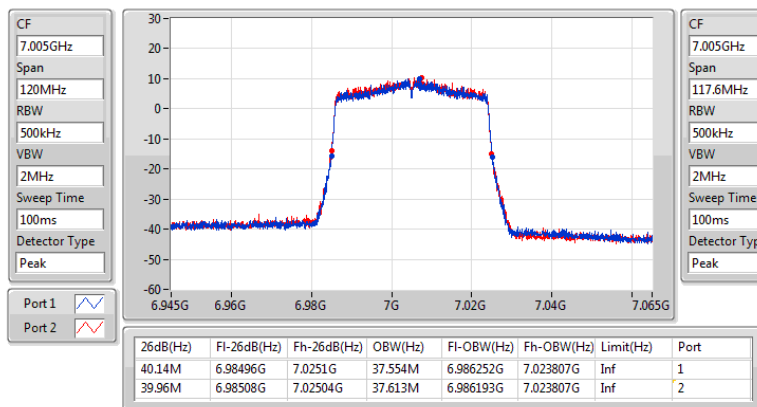
6.875-7.125GHz_802.11ax HEW40_Nss2,(MCS0)_2TX 6925MHz

EBW



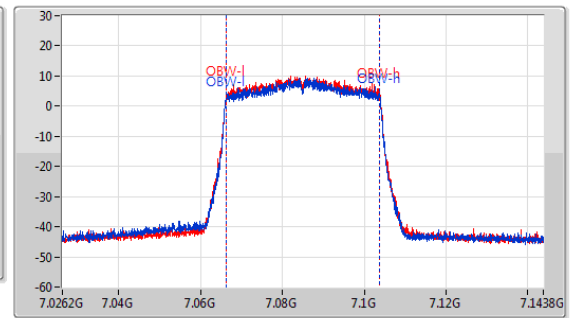
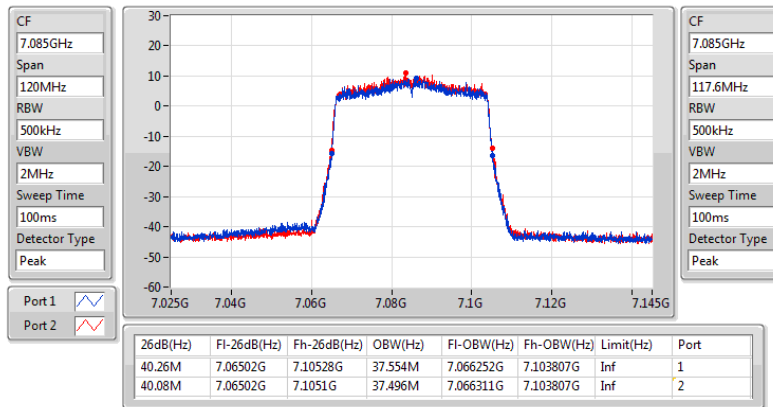
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EBW



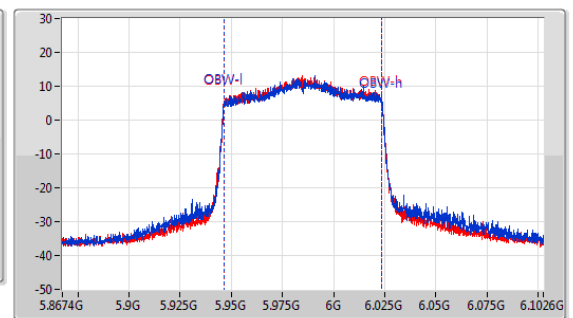
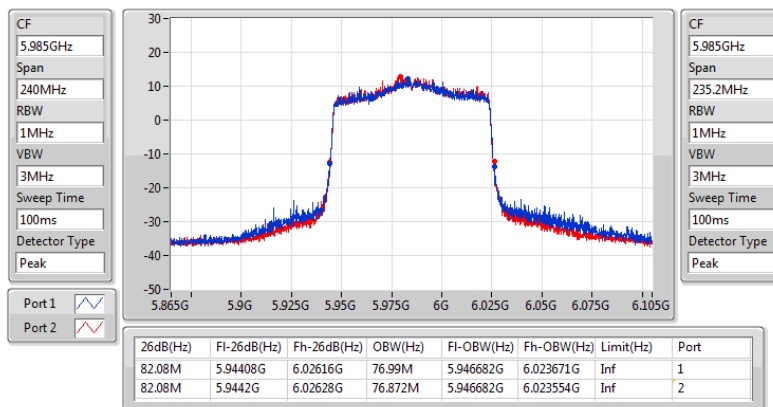
6.875-7.125GHz_802.11ax HEW40_Nss2,(MCS0)_2TX 7085MHz

EBW



5.925-6.425GHz_802.11ax HEW80_Nss2,(MCS0)_2TX 5985MHz

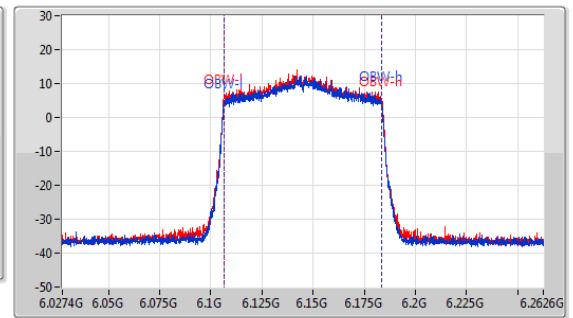
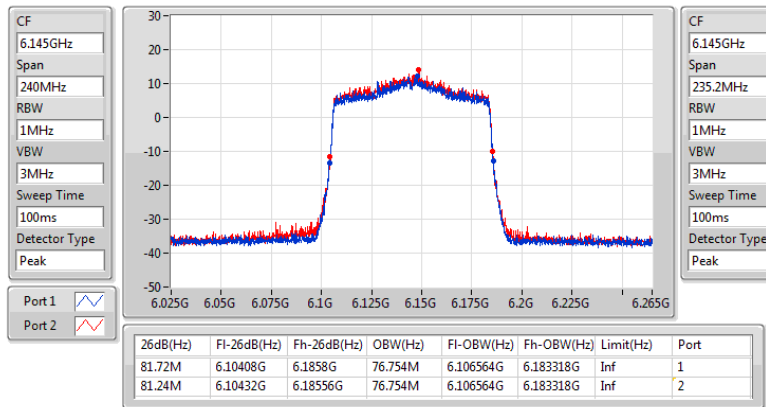
EBW



5.925-6.425GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

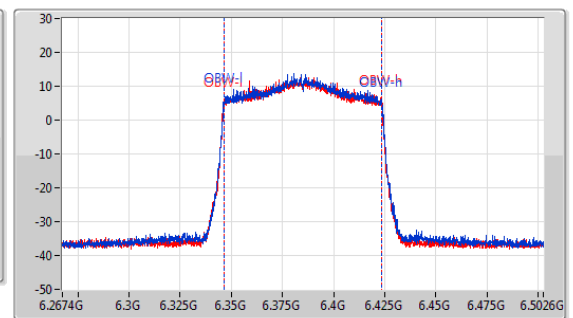
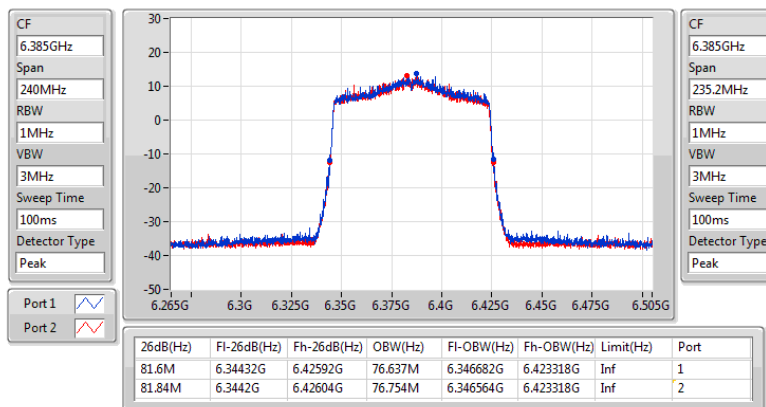
6145MHz



5.925-6.425GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

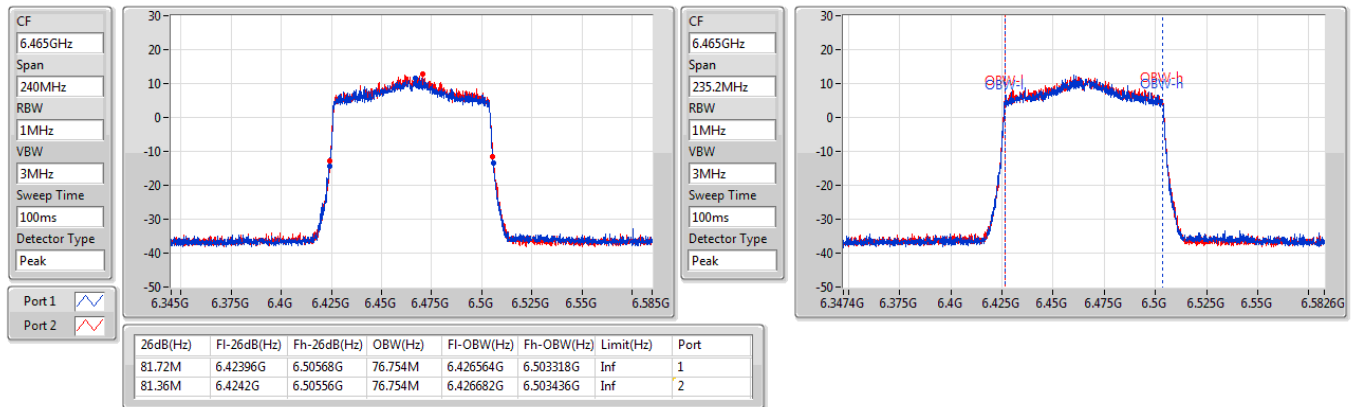
6385MHz



6.425-6.525GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

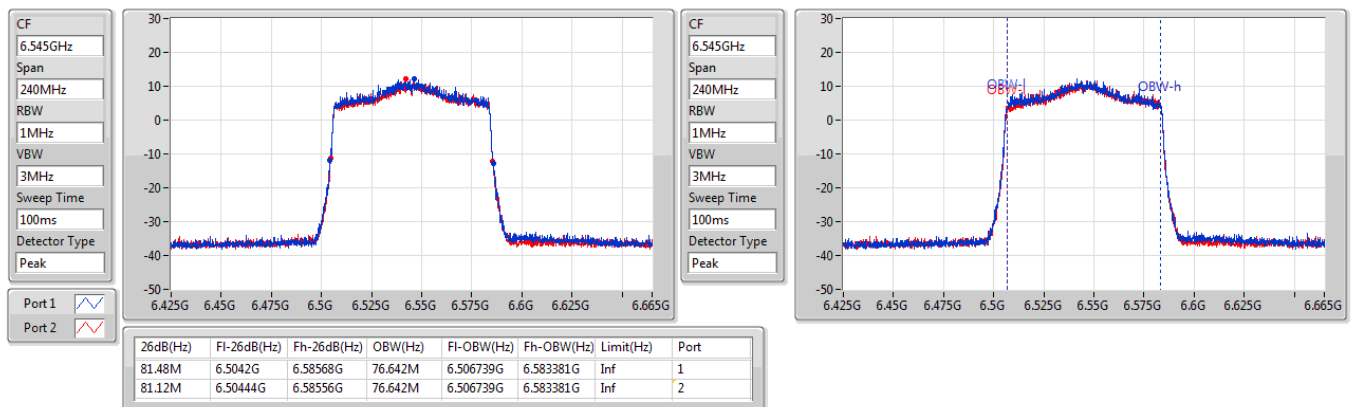
6465MHz



6.425-6.525GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

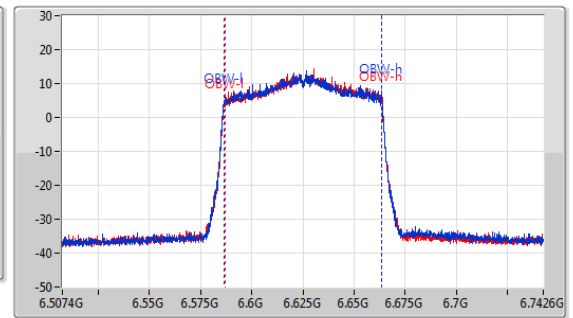
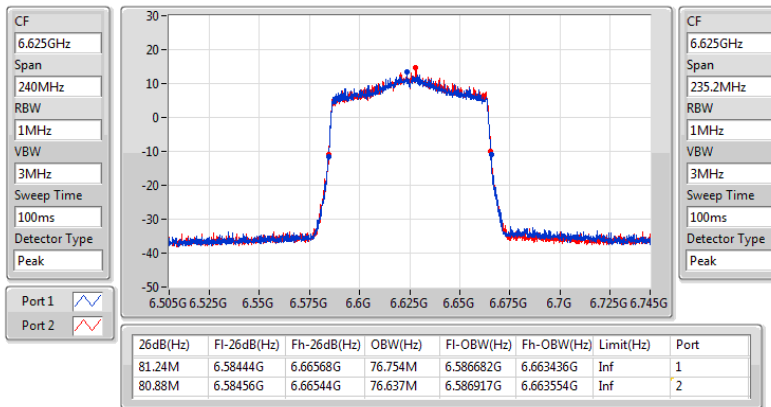
6545MHz Straddle 6.425-6.525GHz



6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

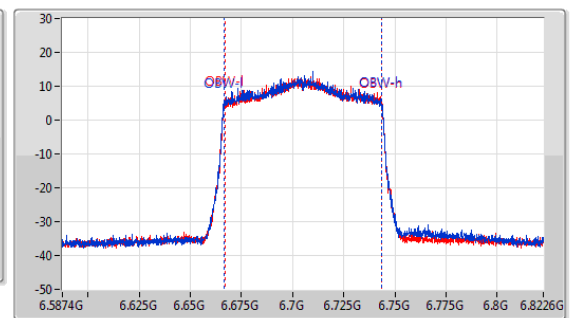
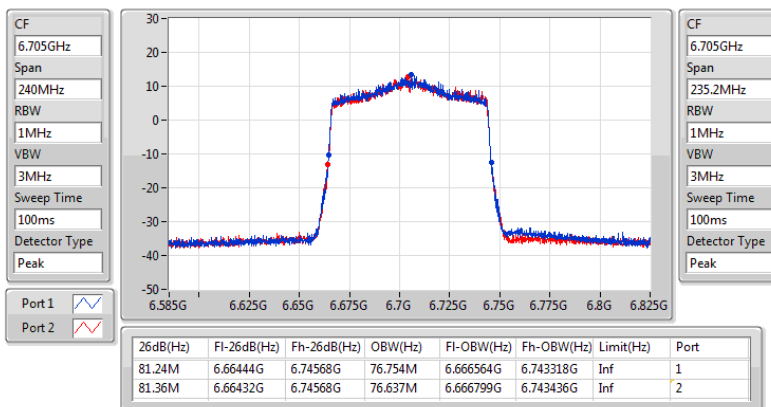
6625MHz



6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

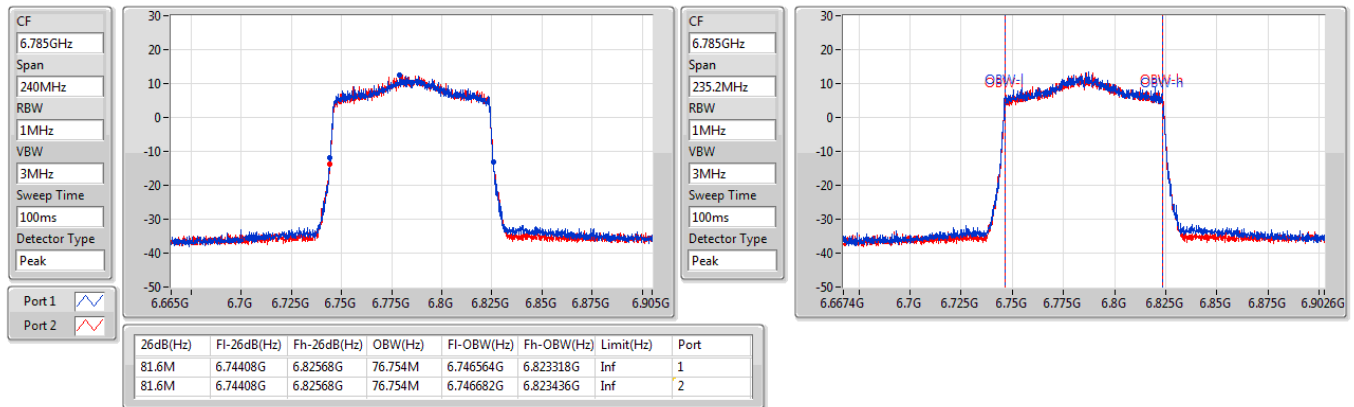
EBW

6705MHz



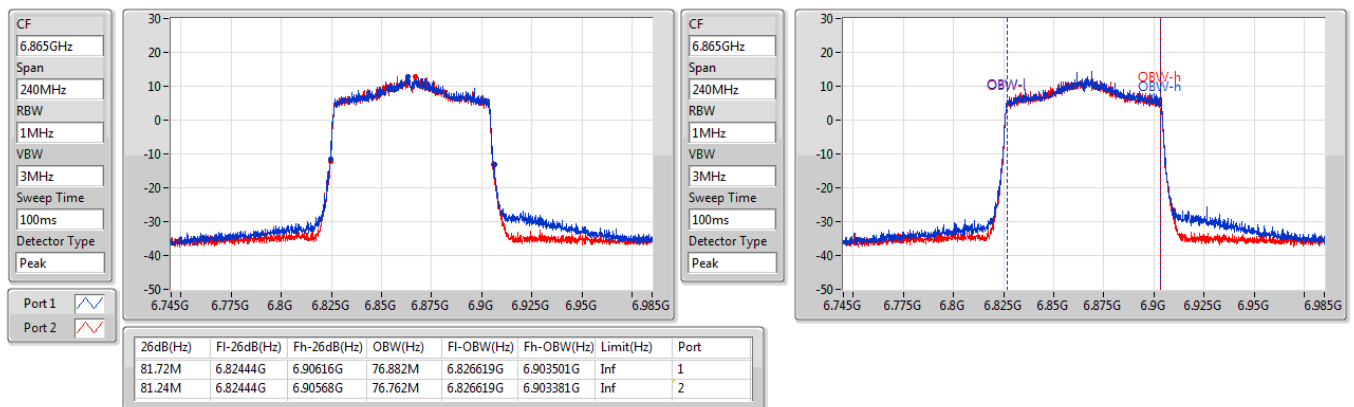
6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX 6785MHz

EBW



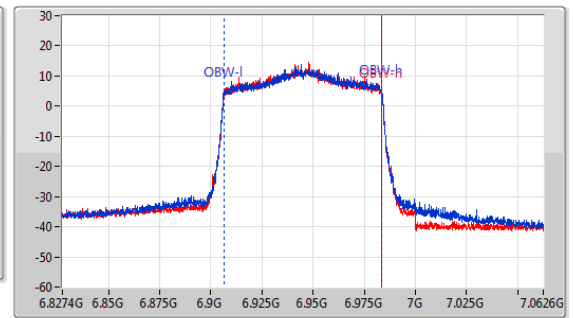
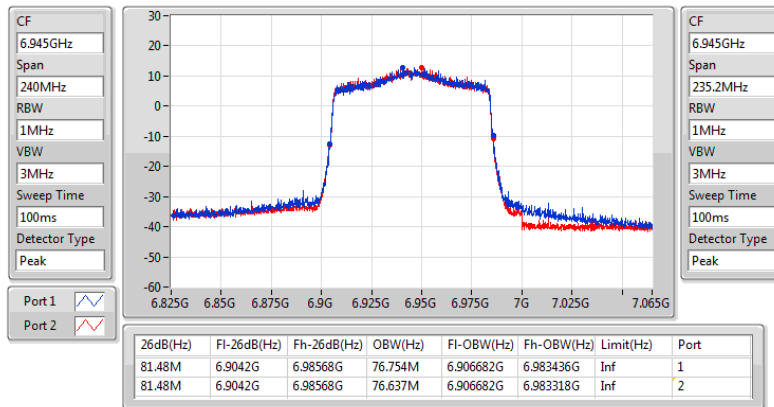
6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX 6865MHz Straddle 6.525-6.875GHz

EBW



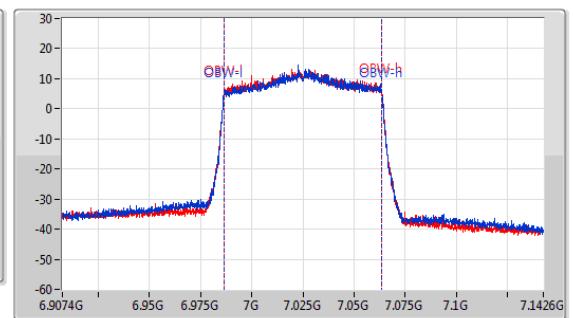
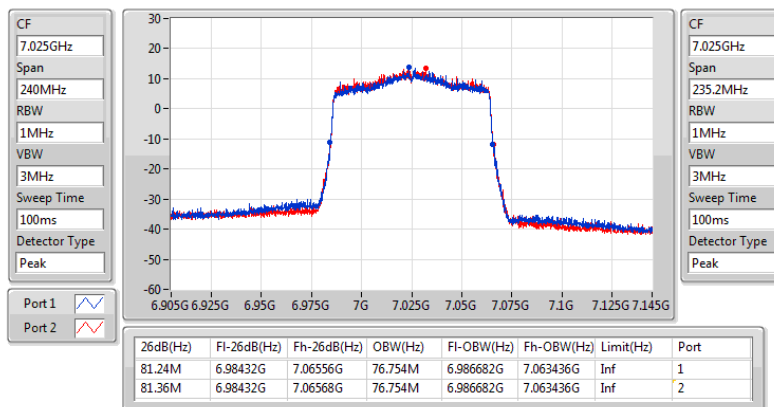
6.875-7.125GHz_802.11ax HEW80_Nss2,(MCS0)_2TX 6945MHz

EBW



6.875-7.125GHz_802.11ax HEW80_Nss2,(MCS0)_2TX 7025MHz

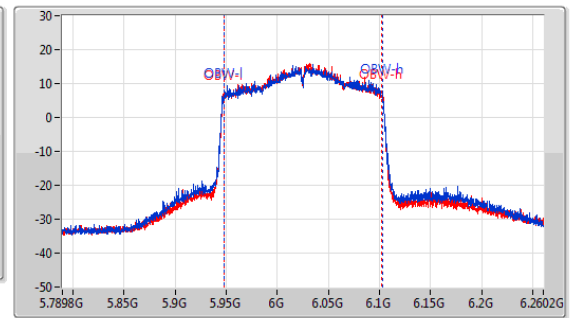
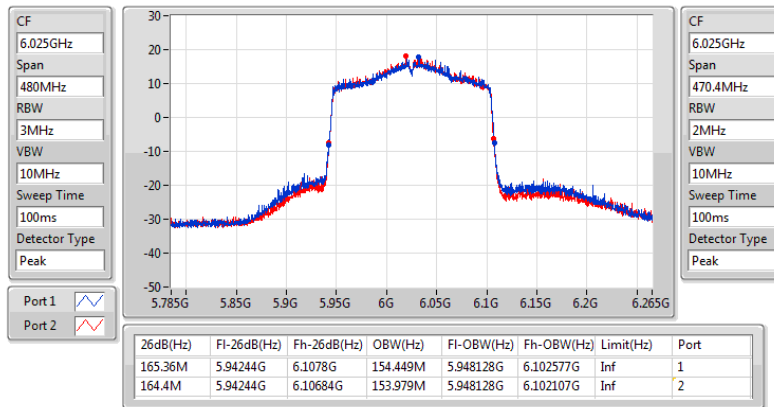
EBW



5.925-6.425GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

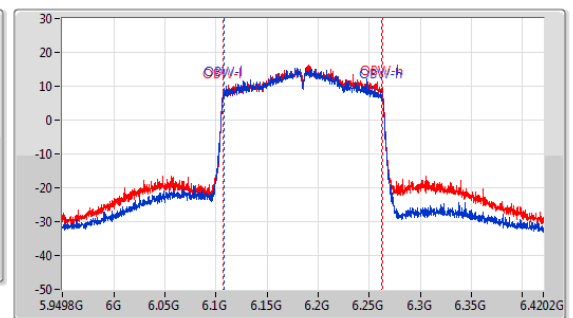
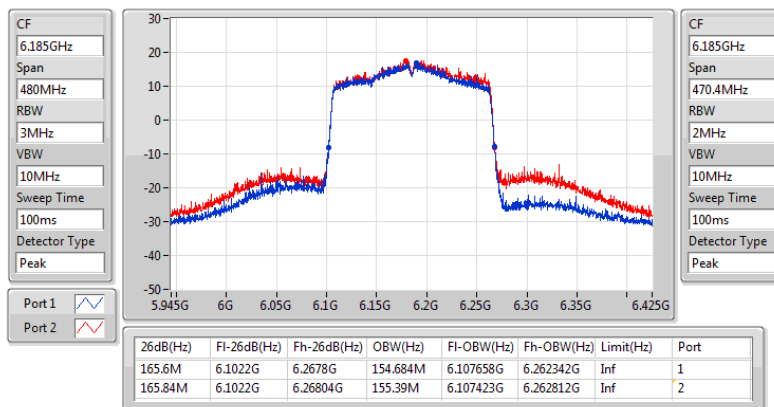
6025MHz



5.925-6.425GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

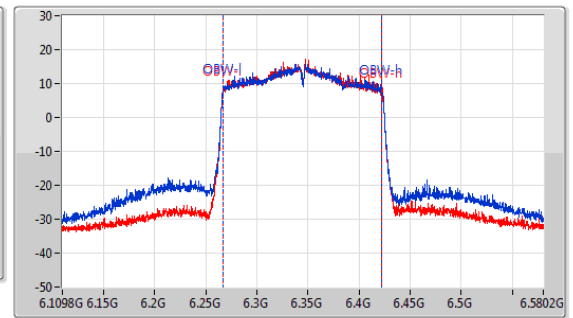
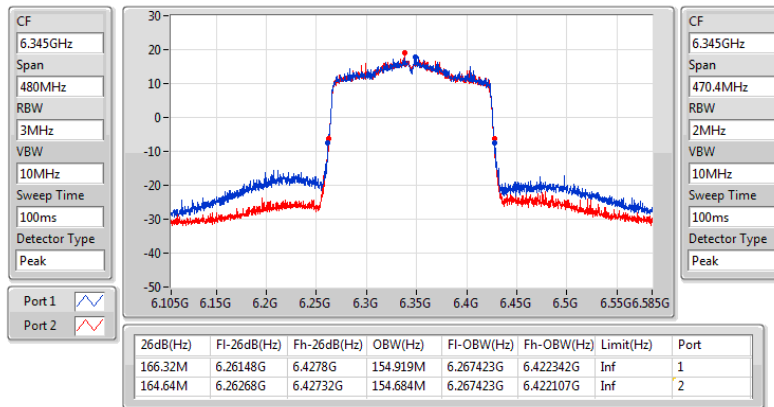
6185MHz



5.925-6.425GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

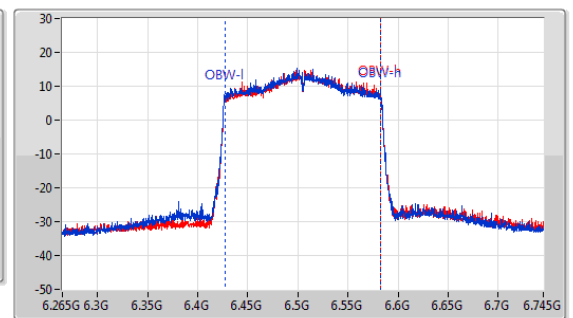
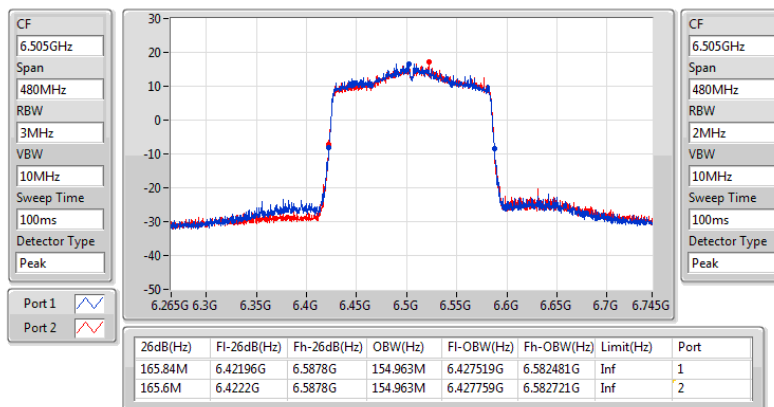
6345MHz



6.425-6.525GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

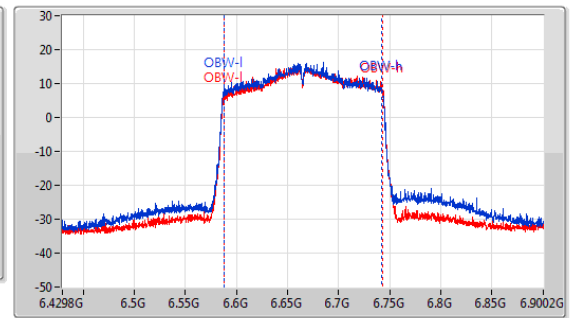
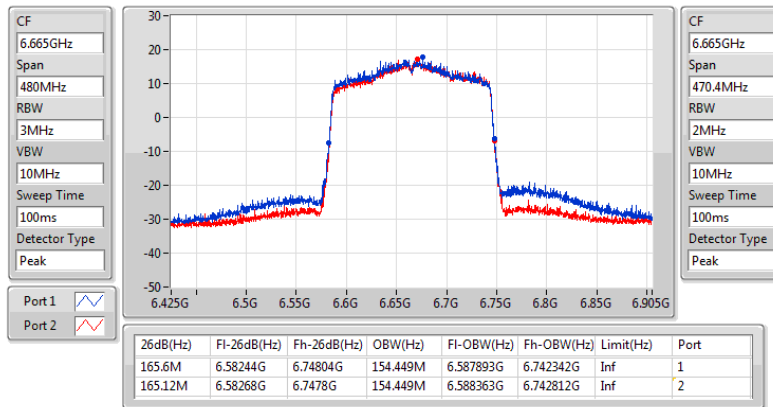
6505MHz Straddle 6.425-6.525GHz



6.525-6.875GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

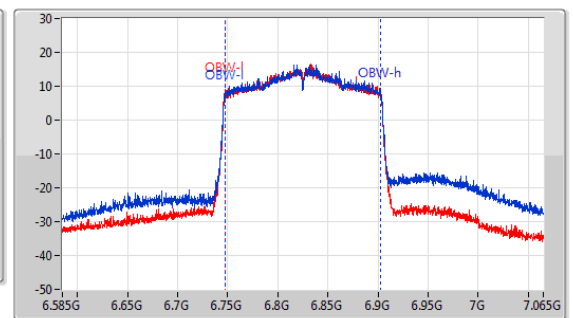
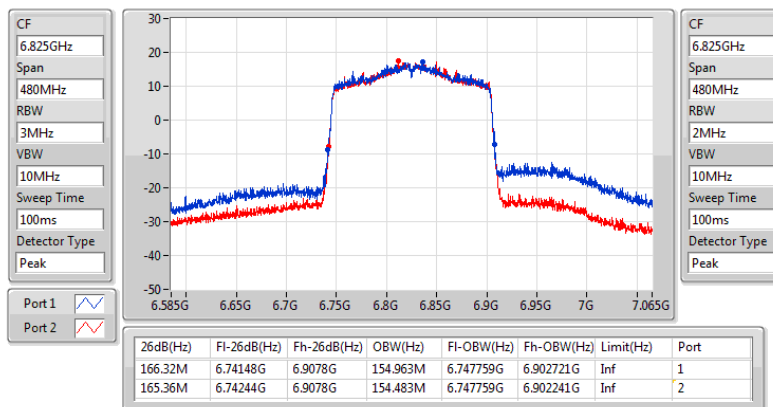
6665MHz



6.525-6.875GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

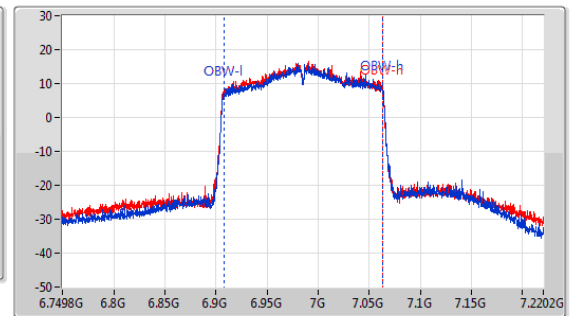
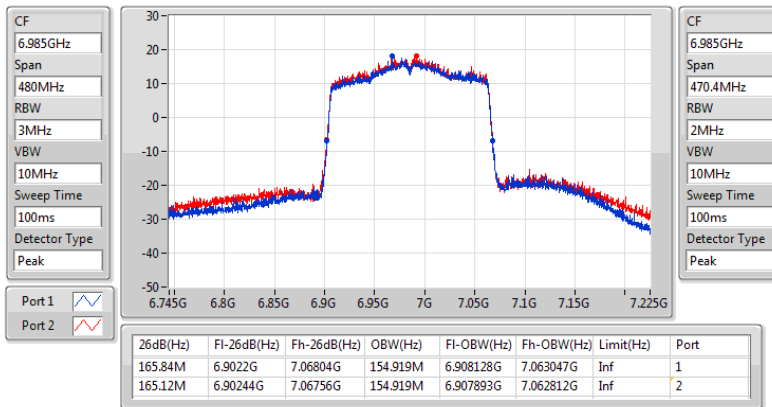
6825MHz Straddle 6.525-6.875GHz



6.875-7.125GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

6985MHz



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	12.92	0.01959	15.92	0.03908
802.11ax HEW20_Nss2,(MCS0)_2TX	12.58	0.01811	16.08	0.04055
802.11ax HEW40_Nss2,(MCS0)_2TX	15.38	0.03451	18.38	0.06887
802.11ax HEW40_Nss2,(MCS0)_2TX	15.43	0.03491	18.93	0.07816
802.11ax HEW80_Nss2,(MCS0)_2TX	18.07	0.06412	21.07	0.12794
802.11ax HEW80_Nss2,(MCS0)_2TX	17.87	0.06124	21.37	0.13709
802.11ax HEW160_Nss2,(MCS0)_2TX	20.51	0.11246	23.51	0.22439
802.11ax HEW160_Nss2,(MCS0)_2TX	20.32	0.10765	23.82	0.24099
6.425-6.525GHz	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	11.58	0.01439	16.28	0.04246
802.11ax HEW20_Nss2,(MCS0)_2TX	11.32	0.01355	14.62	0.02897
802.11ax HEW40_Nss2,(MCS0)_2TX	14.09	0.02564	18.79	0.07568
802.11ax HEW40_Nss2,(MCS0)_2TX	14.17	0.02612	17.47	0.05585
802.11ax HEW80_Nss2,(MCS0)_2TX	16.84	0.04831	21.54	0.14256
802.11ax HEW80_Nss2,(MCS0)_2TX	16.86	0.04853	20.16	0.10375
802.11ax HEW160_Nss2,(MCS0)_2TX	19.11	0.08147	23.81	0.24044
802.11ax HEW160_Nss2,(MCS0)_2TX	18.76	0.07516	22.16	0.16444
6.525-6.875GHz	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	12.78	0.01897	16.28	0.04246
802.11ax HEW20_Nss2,(MCS0)_2TX	13.06	0.02023	16.46	0.04426
802.11ax HEW40_Nss2,(MCS0)_2TX	15.36	0.03436	18.86	0.07691
802.11ax HEW40_Nss2,(MCS0)_2TX	15.48	0.03532	18.88	0.07727
802.11ax HEW80_Nss2,(MCS0)_2TX	17.82	0.06053	21.32	0.13552
802.11ax HEW80_Nss2,(MCS0)_2TX	17.54	0.05675	20.94	0.12417
802.11ax HEW160_Nss2,(MCS0)_2TX	20.35	0.10839	23.85	0.24266
802.11ax HEW160_Nss2,(MCS0)_2TX	19.95	0.09886	23.35	0.21627
6.875-7.125GHz	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	12.63	0.01832	15.83	0.03828
802.11ax HEW20_Nss2,(MCS0)_2TX	13.14	0.02061	16.14	0.04111
802.11ax HEW40_Nss2,(MCS0)_2TX	15.46	0.03516	18.66	0.07345
802.11ax HEW40_Nss2,(MCS0)_2TX	16.25	0.04217	19.25	0.08414
802.11ax HEW80_Nss2,(MCS0)_2TX	17.85	0.06095	21.05	0.12735
802.11ax HEW80_Nss2,(MCS0)_2TX	18.15	0.06531	21.15	0.13032
802.11ax HEW160_Nss2,(MCS0)_2TX	20.21	0.10495	23.41	0.21928
802.11ax HEW160_Nss2,(MCS0)_2TX	20.45	0.11092	23.45	0.22131

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5955MHz	Pass	3.00	12.92		12.92	Inf	15.92	30.00
6175MHz	Pass	3.00	12.07		12.07	Inf	15.07	30.00
6415MHz	Pass	3.00	11.86		11.86	Inf	14.86	30.00
6435MHz	Pass	4.70	11.53		11.53	Inf	16.23	30.00
6475MHz	Pass	4.70	11.37		11.37	Inf	16.07	30.00
6515MHz	Pass	4.70	11.58		11.58	Inf	16.28	30.00
6535MHz	Pass	3.50	12.37		12.37	Inf	15.87	30.00
6715MHz	Pass	3.50	12.73		12.73	Inf	16.23	30.00
6855MHz	Pass	3.50	12.75		12.75	Inf	16.25	30.00
6875MHz Straddle 6.525-6.875GHz	Pass	3.50	12.78		12.78	Inf	16.28	30.00
6895MHz	Pass	3.20	12.56		12.56	Inf	15.76	30.00
7015MHz	Pass	3.20	12.06		12.06	Inf	15.26	30.00
7095MHz	Pass	3.20	12.63		12.63	Inf	15.83	30.00
7115MHz	Pass	3.20	6.34		6.34	Inf	9.54	30.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5965MHz	Pass	3.00	15.38		15.38	Inf	18.38	30.00
6165MHz	Pass	3.00	14.95		14.95	Inf	17.95	30.00
6405MHz	Pass	3.00	15.32		15.32	Inf	18.32	30.00
6445MHz	Pass	4.70	14.09		14.09	Inf	18.79	30.00
6485MHz	Pass	4.70	13.72		13.72	Inf	18.42	30.00
6525MHz Straddle 6.425-6.525GHz	Pass	4.70	13.98		13.98	Inf	18.68	30.00
6565MHz	Pass	3.50	15.36		15.36	Inf	18.86	30.00
6725MHz	Pass	3.50	15.04		15.04	Inf	18.54	30.00
6845MHz	Pass	3.50	14.95		14.95	Inf	18.45	30.00
6885MHz Straddle 6.525-6.875GHz	Pass	3.50	15.03		15.03	Inf	18.53	30.00
6925MHz	Pass	3.20	15.34		15.34	Inf	18.54	30.00
7005MHz	Pass	3.20	15.46		15.46	Inf	18.66	30.00
7085MHz	Pass	3.20	15.42		15.42	Inf	18.62	30.00
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5985MHz	Pass	3.00	17.64		17.64	Inf	20.64	30.00
6145MHz	Pass	3.00	17.21		17.21	Inf	20.21	30.00
6385MHz	Pass	3.00	18.07		18.07	Inf	21.07	30.00
6465MHz	Pass	4.70	16.52		16.52	Inf	21.22	30.00
6545MHz Straddle 6.425-6.525GHz	Pass	4.70	16.84		16.84	Inf	21.54	30.00
6625MHz	Pass	3.50	17.68		17.68	Inf	21.18	30.00
6705MHz	Pass	3.50	17.82		17.82	Inf	21.32	30.00
6785MHz	Pass	3.50	17.49		17.49	Inf	20.99	30.00
6865MHz Straddle 6.525-6.875GHz	Pass	3.50	17.64		17.64	Inf	21.14	30.00
6945MHz	Pass	3.20	17.83		17.83	Inf	21.03	30.00
7025MHz	Pass	3.20	17.85		17.85	Inf	21.05	30.00
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
6025MHz	Pass	3.00	19.83		19.83	Inf	22.83	30.00
6185MHz	Pass	3.00	20.11		20.11	Inf	23.11	30.00
6345MHz	Pass	3.00	20.51		20.51	Inf	23.51	30.00
6505MHz Straddle 6.425-6.525GHz	Pass	4.70	19.11		19.11	Inf	23.81	30.00
6665MHz	Pass	3.50	20.18		20.18	Inf	23.68	30.00
6825MHz Straddle 6.525-6.875GHz	Pass	3.50	20.35		20.35	Inf	23.85	30.00
6985MHz	Pass	3.20	20.21		20.21	Inf	23.41	30.00
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5955MHz	Pass	3.50		12.58	12.58	Inf	16.08	30.00
6175MHz	Pass	3.50		12.56	12.56	Inf	16.06	30.00
6415MHz	Pass	3.50		12.28	12.28	Inf	15.78	30.00
6435MHz	Pass	3.30		11.32	11.32	Inf	14.62	30.00
6475MHz	Pass	3.30		11.15	11.15	Inf	14.45	30.00
6515MHz	Pass	3.30		10.78	10.78	Inf	14.08	30.00
6535MHz	Pass	3.40		11.97	11.97	Inf	15.37	30.00
6715MHz	Pass	3.40		11.38	11.38	Inf	14.78	30.00
6855MHz	Pass	3.40		13.06	13.06	Inf	16.46	30.00
6875MHz Straddle 6.525-6.875GHz	Pass	3.40		13.05	13.05	Inf	16.45	30.00
6895MHz	Pass	3.00		13.01	13.01	Inf	16.01	30.00
7015MHz	Pass	3.00		13.14	13.14	Inf	16.14	30.00
7095MHz	Pass	3.00		13.09	13.09	Inf	16.09	30.00
7115MHz	Pass	3.00		6.44	6.44	Inf	9.44	30.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5965MHz	Pass	3.50		15.43	15.43	Inf	18.93	30.00
6165MHz	Pass	3.50		15.24	15.24	Inf	18.74	30.00
6405MHz	Pass	3.50		15.38	15.38	Inf	18.88	30.00
6445MHz	Pass	3.30		14.17	14.17	Inf	17.47	30.00
6485MHz	Pass	3.30		13.65	13.65	Inf	16.95	30.00
6525MHz Straddle 6.425-6.525GHz	Pass	3.40		13.7	13.70	Inf	17.10	30.00
6565MHz	Pass	3.40		15.46	15.46	Inf	18.86	30.00
6725MHz	Pass	3.40		15.29	15.29	Inf	18.69	30.00
6845MHz	Pass	3.40		15.34	15.34	Inf	18.74	30.00
6885MHz Straddle 6.525-6.875GHz	Pass	3.40		15.48	15.48	Inf	18.88	30.00
6925MHz	Pass	3.00		15.42	15.42	Inf	18.42	30.00
7005MHz	Pass	3.00		15.81	15.81	Inf	18.81	30.00
7085MHz	Pass	3.00		16.25	16.25	Inf	19.25	30.00
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5985MHz	Pass	3.50		17.87	17.87	Inf	21.37	30.00
6145MHz	Pass	3.50		17.42	17.42	Inf	20.92	30.00
6385MHz	Pass	3.50		17.34	17.34	Inf	20.84	30.00
6465MHz	Pass	3.30		16.86	16.86	Inf	20.16	30.00
6545MHz Straddle 6.425-6.525GHz	Pass	3.40		16.35	16.35	Inf	19.75	30.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
6625MHz	Pass	3.40		17.54	17.54	Inf	20.94	30.00
6705MHz	Pass	3.40		17.41	17.41	Inf	20.81	30.00
6785MHz	Pass	3.40		17.2	17.20	Inf	20.60	30.00
6865MHz Straddle 6.525-6.875GHz	Pass	3.40		17.33	17.33	Inf	20.73	30.00
6945MHz	Pass	3.00		17.67	17.67	Inf	20.67	30.00
7025MHz	Pass	3.00		18.15	18.15	Inf	21.15	30.00
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
6025MHz	Pass	3.50		19.76	19.76	Inf	23.26	30.00
6185MHz	Pass	3.50		20.32	20.32	Inf	23.82	30.00
6345MHz	Pass	3.50		20.22	20.22	Inf	23.72	30.00
6505MHz Straddle 6.425-6.525GHz	Pass	3.40		18.76	18.76	Inf	22.16	30.00
6665MHz	Pass	3.40		19.56	19.56	Inf	22.96	30.00
6825MHz Straddle 6.525-6.875GHz	Pass	3.40		19.95	19.95	Inf	23.35	30.00
6985MHz	Pass	3.00		20.45	20.45	Inf	23.45	30.00

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

Cross-polarized antenna is applied for the device and two antenna have different gain thus larger gain is considered as directional gain.

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_2TX	9.91	0.00979	12.91	0.01954
802.11ax HEW20-BF_Nss2,(MCS0)_2TX	9.57	0.00906	13.07	0.02028
802.11ax HEW40-BF_Nss2,(MCS0)_2TX	12.37	0.01726	15.37	0.03443
802.11ax HEW40-BF_Nss2,(MCS0)_2TX	12.42	0.01746	15.92	0.03908
802.11ax HEW80-BF_Nss2,(MCS0)_2TX	15.06	0.03206	18.06	0.06397
802.11ax HEW80-BF_Nss2,(MCS0)_2TX	14.86	0.03062	18.36	0.06855
802.11ax HEW160-BF_Nss2,(MCS0)_2TX	17.50	0.05623	20.50	0.11220
802.11ax HEW160-BF_Nss2,(MCS0)_2TX	17.31	0.05383	20.81	0.12050
6.425-6.525GHz	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_2TX	8.57	0.00719	13.27	0.02123
802.11ax HEW20-BF_Nss2,(MCS0)_2TX	8.31	0.00678	11.61	0.01449
802.11ax HEW40-BF_Nss2,(MCS0)_2TX	11.08	0.01282	15.78	0.03784
802.11ax HEW40-BF_Nss2,(MCS0)_2TX	11.16	0.01306	14.46	0.02793
802.11ax HEW80-BF_Nss2,(MCS0)_2TX	13.83	0.02415	18.53	0.07129
802.11ax HEW80-BF_Nss2,(MCS0)_2TX	13.85	0.02427	17.15	0.05188
802.11ax HEW160-BF_Nss2,(MCS0)_2TX	16.10	0.04074	20.80	0.12023
802.11ax HEW160-BF_Nss2,(MCS0)_2TX	15.75	0.03758	19.15	0.08222
6.525-6.875GHz	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_2TX	9.77	0.00948	13.27	0.02123
802.11ax HEW20-BF_Nss2,(MCS0)_2TX	10.05	0.01012	13.45	0.02213
802.11ax HEW40-BF_Nss2,(MCS0)_2TX	12.35	0.01718	15.85	0.03846
802.11ax HEW40-BF_Nss2,(MCS0)_2TX	12.47	0.01766	15.87	0.03864
802.11ax HEW80-BF_Nss2,(MCS0)_2TX	14.81	0.03027	18.31	0.06776
802.11ax HEW80-BF_Nss2,(MCS0)_2TX	14.53	0.02838	17.93	0.06209
802.11ax HEW160-BF_Nss2,(MCS0)_2TX	17.34	0.05420	20.84	0.12134
802.11ax HEW160-BF_Nss2,(MCS0)_2TX	16.94	0.04943	20.34	0.10814
6.875-7.125GHz	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_2TX	9.62	0.00916	12.82	0.01914
802.11ax HEW20-BF_Nss2,(MCS0)_2TX	10.13	0.01030	13.13	0.02056
802.11ax HEW40-BF_Nss2,(MCS0)_2TX	12.45	0.01758	15.65	0.03673
802.11ax HEW40-BF_Nss2,(MCS0)_2TX	13.24	0.02109	16.24	0.04207
802.11ax HEW80-BF_Nss2,(MCS0)_2TX	14.84	0.03048	18.04	0.06368
802.11ax HEW80-BF_Nss2,(MCS0)_2TX	15.14	0.03266	18.14	0.06516
802.11ax HEW160-BF_Nss2,(MCS0)_2TX	17.20	0.05248	20.40	0.10965
802.11ax HEW160-BF_Nss2,(MCS0)_2TX	17.44	0.05546	20.44	0.11066

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5955MHz	Pass	3.00	9.91		9.91	Inf	12.91	30.00
6175MHz	Pass	3.00	9.06		9.06	Inf	12.06	30.00
6415MHz	Pass	3.00	8.85		8.85	Inf	11.85	30.00
6435MHz	Pass	4.70	8.52		8.52	Inf	13.22	30.00
6475MHz	Pass	4.70	8.36		8.36	Inf	13.06	30.00
6515MHz	Pass	4.70	8.57		8.57	Inf	13.27	30.00
6535MHz	Pass	3.50	9.36		9.36	Inf	12.86	30.00
6715MHz	Pass	3.50	9.72		9.72	Inf	13.22	30.00
6855MHz	Pass	3.50	9.74		9.74	Inf	13.24	30.00
6875MHz Straddle 6.525-6.875GHz	Pass	3.50	9.77		9.77	Inf	13.27	30.00
6895MHz	Pass	3.20	9.55		9.55	Inf	12.75	30.00
7015MHz	Pass	3.20	9.05		9.05	Inf	12.25	30.00
7095MHz	Pass	3.20	9.62		9.62	Inf	12.82	30.00
7115MHz	Pass	3.20	3.33		3.33	Inf	6.53	30.00
802.11ax HEW40-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5965MHz	Pass	3.00	12.37		12.37	Inf	15.37	30.00
6165MHz	Pass	3.00	11.94		11.94	Inf	14.94	30.00
6405MHz	Pass	3.00	12.31		12.31	Inf	15.31	30.00
6445MHz	Pass	4.70	11.08		11.08	Inf	15.78	30.00
6485MHz	Pass	4.70	10.71		10.71	Inf	15.41	30.00
6525MHz Straddle 6.425-6.525GHz	Pass	4.70	10.97		10.97	Inf	15.67	30.00
6565MHz	Pass	3.50	12.35		12.35	Inf	15.85	30.00
6725MHz	Pass	3.50	12.03		12.03	Inf	15.53	30.00
6845MHz	Pass	3.50	11.94		11.94	Inf	15.44	30.00
6885MHz Straddle 6.525-6.875GHz	Pass	3.50	12.02		12.02	Inf	15.52	30.00
6925MHz	Pass	3.20	12.33		12.33	Inf	15.53	30.00
7005MHz	Pass	3.20	12.45		12.45	Inf	15.65	30.00
7085MHz	Pass	3.20	12.41		12.41	Inf	15.61	30.00
802.11ax HEW80-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5985MHz	Pass	3.00	14.63		14.63	Inf	17.63	30.00
6145MHz	Pass	3.00	14.2		14.20	Inf	17.20	30.00
6385MHz	Pass	3.00	15.06		15.06	Inf	18.06	30.00
6465MHz	Pass	4.70	13.51		13.51	Inf	18.21	30.00
6545MHz Straddle 6.425-6.525GHz	Pass	4.70	13.83		13.83	Inf	18.53	30.00
6625MHz	Pass	3.50	14.67		14.67	Inf	18.17	30.00
6705MHz	Pass	3.50	14.81		14.81	Inf	18.31	30.00
6785MHz	Pass	3.50	14.48		14.48	Inf	17.98	30.00
6865MHz Straddle 6.525-6.875GHz	Pass	3.50	14.63		14.63	Inf	18.13	30.00
6945MHz	Pass	3.20	14.82		14.82	Inf	18.02	30.00
7025MHz	Pass	3.20	14.84		14.84	Inf	18.04	30.00
802.11ax HEW160-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
6025MHz	Pass	3.00	16.82		16.82	Inf	19.82	30.00
6185MHz	Pass	3.00	17.1		17.10	Inf	20.10	30.00
6345MHz	Pass	3.00	17.5		17.50	Inf	20.50	30.00
6505MHz Straddle 6.425-6.525GHz	Pass	4.70	16.1		16.10	Inf	20.80	30.00
6665MHz	Pass	3.50	17.17		17.17	Inf	20.67	30.00
6825MHz Straddle 6.525-6.875GHz	Pass	3.50	17.34		17.34	Inf	20.84	30.00
6985MHz	Pass	3.20	17.2		17.20	Inf	20.40	30.00
802.11ax HEW20-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5955MHz	Pass	3.50		9.57	9.57	Inf	13.07	30.00
6175MHz	Pass	3.50		9.55	9.55	Inf	13.05	30.00
6415MHz	Pass	3.50		9.27	9.27	Inf	12.77	30.00
6435MHz	Pass	3.30		8.31	8.31	Inf	11.61	30.00
6475MHz	Pass	3.30		8.14	8.14	Inf	11.44	30.00
6515MHz	Pass	3.30		7.77	7.77	Inf	11.07	30.00
6535MHz	Pass	3.40		8.96	8.96	Inf	12.36	30.00
6715MHz	Pass	3.40		8.37	8.37	Inf	11.77	30.00
6855MHz	Pass	3.40		10.05	10.05	Inf	13.45	30.00
6875MHz Straddle 6.525-6.875GHz	Pass	3.40		10.04	10.04	Inf	13.44	30.00
6895MHz	Pass	3.00		10	10.00	Inf	13.00	30.00
7015MHz	Pass	3.00		10.13	10.13	Inf	13.13	30.00
7095MHz	Pass	3.00		10.08	10.08	Inf	13.08	30.00
7115MHz	Pass	3.00		3.43	3.43	Inf	6.43	30.00
802.11ax HEW40-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5965MHz	Pass	3.50		12.42	12.42	Inf	15.92	30.00
6165MHz	Pass	3.50		12.23	12.23	Inf	15.73	30.00
6405MHz	Pass	3.50		12.37	12.37	Inf	15.87	30.00
6445MHz	Pass	3.30		11.16	11.16	Inf	14.46	30.00
6485MHz	Pass	3.30		10.64	10.64	Inf	13.94	30.00
6525MHz Straddle 6.425-6.525GHz	Pass	3.40		10.69	10.69	Inf	14.19	30.00
6565MHz	Pass	3.40		12.45	12.45	Inf	15.85	30.00
6725MHz	Pass	3.40		12.28	12.28	Inf	15.68	30.00
6845MHz	Pass	3.40		12.33	12.33	Inf	15.73	30.00
6885MHz Straddle 6.525-6.875GHz	Pass	3.40		12.47	12.47	Inf	15.87	30.00
6925MHz	Pass	3.00		12.41	12.41	Inf	15.41	30.00
7005MHz	Pass	3.00		12.8	12.80	Inf	15.80	30.00
7085MHz	Pass	3.00		13.24	13.24	Inf	16.24	30.00
802.11ax HEW80-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5985MHz	Pass	3.50		14.86	14.86	Inf	18.36	30.00
6145MHz	Pass	3.50		14.41	14.41	Inf	17.91	30.00
6385MHz	Pass	3.50		14.33	14.33	Inf	17.83	30.00
6465MHz	Pass	3.30		13.85	13.85	Inf	17.15	30.00
6545MHz Straddle 6.425-6.525GHz	Pass	3.40		13.34	13.34	Inf	16.74	30.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
6625MHz	Pass	3.40		14.53	14.53	Inf	17.93	30.00
6705MHz	Pass	3.40		14.4	14.40	Inf	17.80	30.00
6785MHz	Pass	3.40		14.19	14.19	Inf	17.59	30.00
6865MHz Straddle 6.525-6.875GHz	Pass	3.40		14.32	14.32	Inf	17.72	30.00
6945MHz	Pass	3.00		14.66	14.66	Inf	17.66	30.00
7025MHz	Pass	3.00		15.14	15.14	Inf	18.14	30.00
802.11ax HEW160-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
6025MHz	Pass	3.50		16.75	16.75	Inf	20.25	30.00
6185MHz	Pass	3.50		17.31	17.31	Inf	20.81	30.00
6345MHz	Pass	3.50		17.21	17.21	Inf	20.71	30.00
6505MHz Straddle 6.425-6.525GHz	Pass	3.40		15.75	15.75	Inf	19.15	30.00
6665MHz	Pass	3.40		16.55	16.55	Inf	19.95	30.00
6825MHz Straddle 6.525-6.875GHz	Pass	3.40		16.94	16.94	Inf	20.34	30.00
6985MHz	Pass	3.00		17.44	17.44	Inf	20.44	30.00

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

Cross-polarized antenna is applied for the device and two antenna have different gain thus larger gain is considered as directional gain.

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.925-6.425GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	1.08	4.08
802.11ax HEW20_Nss2,(MCS0)_2TX	1.10	4.60
802.11ax HEW40_Nss2,(MCS0)_2TX	1.31	4.31
802.11ax HEW40_Nss2,(MCS0)_2TX	1.35	4.85
802.11ax HEW80_Nss2,(MCS0)_2TX	1.60	4.60
802.11ax HEW80_Nss2,(MCS0)_2TX	1.10	4.60
802.11ax HEW160_Nss2,(MCS0)_2TX	1.18	4.18
802.11ax HEW160_Nss2,(MCS0)_2TX	1.06	4.56
6.425-6.525GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	0.10	4.80
802.11ax HEW20_Nss2,(MCS0)_2TX	-0.30	3.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-0.10	4.60
802.11ax HEW40_Nss2,(MCS0)_2TX	-0.02	3.28
802.11ax HEW80_Nss2,(MCS0)_2TX	0.05	4.75
802.11ax HEW80_Nss2,(MCS0)_2TX	0.05	3.35
802.11ax HEW160_Nss2,(MCS0)_2TX	-0.10	4.60
802.11ax HEW160_Nss2,(MCS0)_2TX	-0.40	3.00
6.525-6.875GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	1.26	4.76
802.11ax HEW20_Nss2,(MCS0)_2TX	1.39	4.79
802.11ax HEW40_Nss2,(MCS0)_2TX	1.23	4.73
802.11ax HEW40_Nss2,(MCS0)_2TX	1.32	4.72
802.11ax HEW80_Nss2,(MCS0)_2TX	1.27	4.77
802.11ax HEW80_Nss2,(MCS0)_2TX	0.99	4.39
802.11ax HEW160_Nss2,(MCS0)_2TX	1.06	4.56
802.11ax HEW160_Nss2,(MCS0)_2TX	0.61	4.01
6.875-7.125GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	1.47	4.67
802.11ax HEW20_Nss2,(MCS0)_2TX	1.76	4.76
802.11ax HEW40_Nss2,(MCS0)_2TX	1.47	4.67
802.11ax HEW40_Nss2,(MCS0)_2TX	1.71	4.71
802.11ax HEW80_Nss2,(MCS0)_2TX	1.38	4.58
802.11ax HEW80_Nss2,(MCS0)_2TX	1.38	4.38
802.11ax HEW160_Nss2,(MCS0)_2TX	0.80	4.00
802.11ax HEW160_Nss2,(MCS0)_2TX	1.48	4.48

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)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5955MHz	Pass	3.00	1.08		1.08	Inf	4.08	5.00
6175MHz	Pass	3.00	0.73		0.73	Inf	3.73	5.00
6415MHz	Pass	3.00	0.46		0.46	Inf	3.46	5.00
6435MHz	Pass	4.70	-0.10		-0.10	Inf	4.60	5.00
6475MHz	Pass	4.70	0.08		0.08	Inf	4.78	5.00
6515MHz	Pass	4.70	0.10		0.10	Inf	4.80	5.00
6535MHz	Pass	3.50	1.06		1.06	Inf	4.56	5.00
6715MHz	Pass	3.50	1.10		1.10	Inf	4.60	5.00
6855MHz	Pass	3.50	1.22		1.22	Inf	4.72	5.00
6875MHz Straddle 6.525-6.875GHz	Pass	3.50	1.26		1.26	Inf	4.76	5.00
6895MHz	Pass	3.20	1.47		1.47	Inf	4.67	5.00
7015MHz	Pass	3.20	0.63		0.63	Inf	3.83	5.00
7095MHz	Pass	3.20	1.23		1.23	Inf	4.43	5.00
7115MHz	Pass	3.20	-5.49		-5.49	Inf	-2.29	5.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5965MHz	Pass	3.00	1.31		1.31	Inf	4.31	5.00
6165MHz	Pass	3.00	0.93		0.93	Inf	3.93	5.00
6405MHz	Pass	3.00	1.22		1.22	Inf	4.22	5.00
6445MHz	Pass	4.70	-0.10		-0.10	Inf	4.60	5.00
6485MHz	Pass	4.70	-0.27		-0.27	Inf	4.43	5.00
6525MHz Straddle 6.425-6.525GHz	Pass	4.70	-0.26		-0.26	Inf	4.44	5.00
6565MHz	Pass	3.50	1.23		1.23	Inf	4.73	5.00
6725MHz	Pass	3.50	0.81		0.81	Inf	4.31	5.00
6845MHz	Pass	3.50	0.90		0.90	Inf	4.40	5.00
6885MHz Straddle 6.525-6.875GHz	Pass	3.50	0.84		0.84	Inf	4.34	5.00
6925MHz	Pass	3.20	1.47		1.47	Inf	4.67	5.00
7005MHz	Pass	3.20	1.45		1.45	Inf	4.65	5.00
7085MHz	Pass	3.20	1.12		1.12	Inf	4.32	5.00
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5985MHz	Pass	3.00	1.01		1.01	Inf	4.01	5.00
6145MHz	Pass	3.00	0.56		0.56	Inf	3.56	5.00
6385MHz	Pass	3.00	1.60		1.60	Inf	4.60	5.00
6465MHz	Pass	4.70	-0.09		-0.09	Inf	4.61	5.00
6545MHz Straddle 6.425-6.525GHz	Pass	4.70	0.05		0.05	Inf	4.75	5.00
6625MHz	Pass	3.50	1.27		1.27	Inf	4.77	5.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
6705MHz	Pass	3.50	1.26		1.26	Inf	4.76	5.00
6785MHz	Pass	3.50	1.02		1.02	Inf	4.52	5.00
6865MHz Straddle 6.525-6.875GHz	Pass	3.50	1.26		1.26	Inf	4.76	5.00
6945MHz	Pass	3.20	1.38		1.38	Inf	4.58	5.00
7025MHz	Pass	3.20	1.28		1.28	Inf	4.48	5.00
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
6025MHz	Pass	3.00	1.07		1.07	Inf	4.07	5.00
6185MHz	Pass	3.00	0.99		0.99	Inf	3.99	5.00
6345MHz	Pass	3.00	1.18		1.18	Inf	4.18	5.00
6505MHz Straddle 6.425-6.525GHz	Pass	4.70	-0.10		-0.10	Inf	4.60	5.00
6665MHz	Pass	3.50	1.06		1.06	Inf	4.56	5.00
6825MHz Straddle 6.525-6.875GHz	Pass	3.50	1.00		1.00	Inf	4.50	5.00
6985MHz	Pass	3.20	0.80		0.80	Inf	4.00	5.00
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5955MHz	Pass	3.50	-	1.09	1.09	Inf	4.59	5.00
6175MHz	Pass	3.50	-	1.08	1.08	Inf	4.58	5.00
6415MHz	Pass	3.50	-	1.10	1.10	Inf	4.60	5.00
6435MHz	Pass	3.30	-	-0.30	-0.30	Inf	3.00	5.00
6475MHz	Pass	3.30	-	-0.34	-0.34	Inf	2.96	5.00
6515MHz	Pass	3.30	-	-0.34	-0.34	Inf	2.96	5.00
6535MHz	Pass	3.40	-	0.59	0.59	Inf	3.99	5.00
6715MHz	Pass	3.40	-	-0.38	-0.38	Inf	3.02	5.00
6855MHz	Pass	3.40	-	1.34	1.34	Inf	4.74	5.00
6875MHz Straddle 6.525-6.875GHz	Pass	3.40	-	1.39	1.39	Inf	4.79	5.00
6895MHz	Pass	3.00	-	1.61	1.61	Inf	4.61	5.00
7015MHz	Pass	3.00	-	1.59	1.59	Inf	4.59	5.00
7095MHz	Pass	3.00	-	1.76	1.76	Inf	4.76	5.00
7115MHz	Pass	3.00	-	-5.48	-5.48	Inf	-2.48	5.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5965MHz	Pass	3.50	-	1.14	1.14	Inf	4.64	5.00
6165MHz	Pass	3.50	-	1.02	1.02	Inf	4.52	5.00
6405MHz	Pass	3.50	-	1.35	1.35	Inf	4.85	5.00
6445MHz	Pass	3.30	-	-0.02	-0.02	Inf	3.28	5.00
6485MHz	Pass	3.30	-	-0.51	-0.51	Inf	2.79	5.00
6525MHz Straddle 6.425-6.525GHz	Pass	3.40	-	-0.43	-0.43	Inf	2.97	5.00
6565MHz	Pass	3.40	-	1.32	1.32	Inf	4.72	5.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
6725MHz	Pass	3.40	-	1.18	1.18	Inf	4.58	5.00
6845MHz	Pass	3.40	-	1.04	1.04	Inf	4.44	5.00
6885MHz Straddle 6.525-6.875GHz	Pass	3.40	-	1.08	1.08	Inf	4.48	5.00
6925MHz	Pass	3.00	-	1.16	1.16	Inf	4.16	5.00
7005MHz	Pass	3.00	-	1.55	1.55	Inf	4.55	5.00
7085MHz	Pass	3.00	-	1.71	1.71	Inf	4.71	5.00
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5985MHz	Pass	3.50	-	1.10	1.10	Inf	4.60	5.00
6145MHz	Pass	3.50	-	0.94	0.94	Inf	4.44	5.00
6385MHz	Pass	3.50	-	0.84	0.84	Inf	4.34	5.00
6465MHz	Pass	3.30	-	0.05	0.05	Inf	3.35	5.00
6545MHz Straddle 6.425-6.525GHz	Pass	3.40	-	-0.05	-0.05	Inf	3.35	5.00
6625MHz	Pass	3.40	-	0.99	0.99	Inf	4.39	5.00
6705MHz	Pass	3.40	-	0.85	0.85	Inf	4.25	5.00
6785MHz	Pass	3.40	-	0.45	0.45	Inf	3.85	5.00
6865MHz Straddle 6.525-6.875GHz	Pass	3.40	-	0.70	0.70	Inf	4.10	5.00
6945MHz	Pass	3.00	-	1.03	1.03	Inf	4.03	5.00
7025MHz	Pass	3.00	-	1.38	1.38	Inf	4.38	5.00
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
6025MHz	Pass	3.50	-	0.99	0.99	Inf	4.49	5.00
6185MHz	Pass	3.50	-	0.91	0.91	Inf	4.41	5.00
6345MHz	Pass	3.50	-	1.06	1.06	Inf	4.56	5.00
6505MHz Straddle 6.425-6.525GHz	Pass	3.40	-	-0.40	-0.40	Inf	3.00	5.00
6665MHz	Pass	3.40	-	0.46	0.46	Inf	3.86	5.00
6825MHz Straddle 6.525-6.875GHz	Pass	3.40	-	0.61	0.61	Inf	4.01	5.00
6985MHz	Pass	3.00	-	1.48	1.48	Inf	4.48	5.00

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;

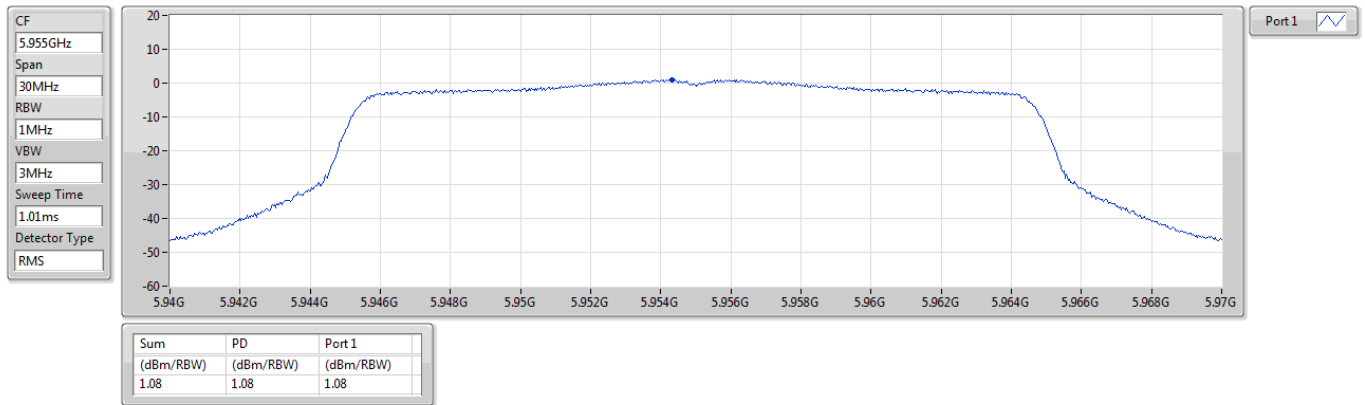
Cross-polarized antenna is applied for the device and two antenna have different gain thus larger gain is considered as directional gain.



5.925-6.425GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

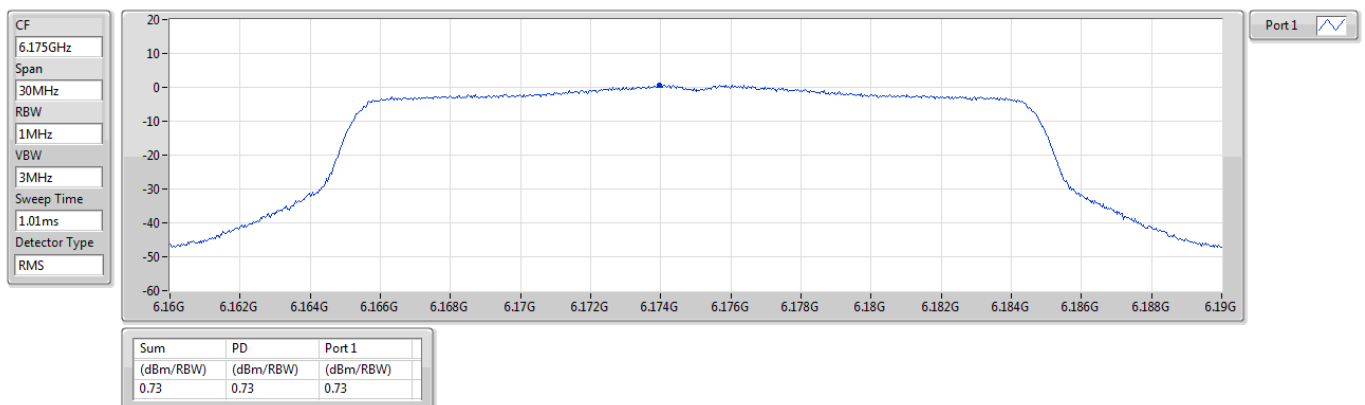
5955MHz



5.925-6.425GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

6175MHz

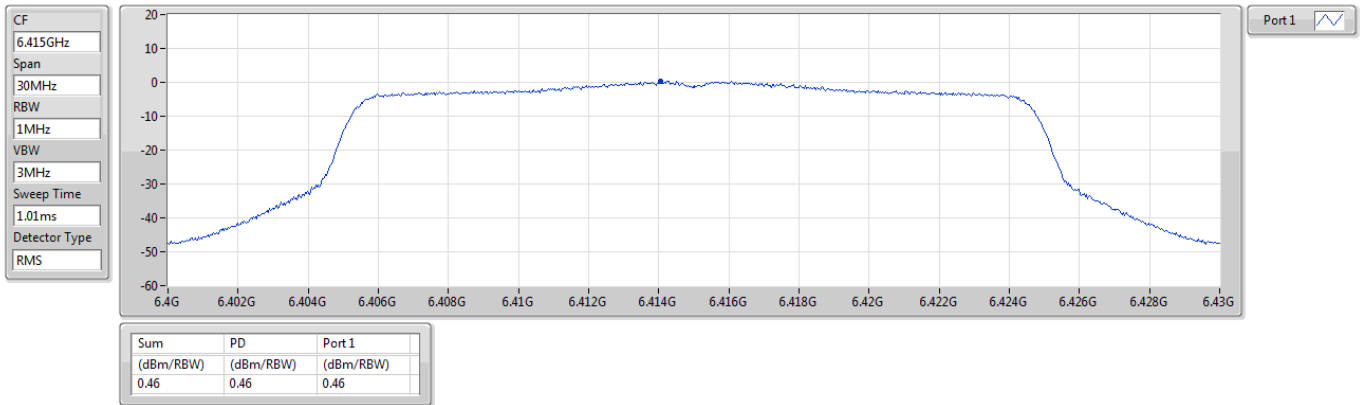




5.925-6.425GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

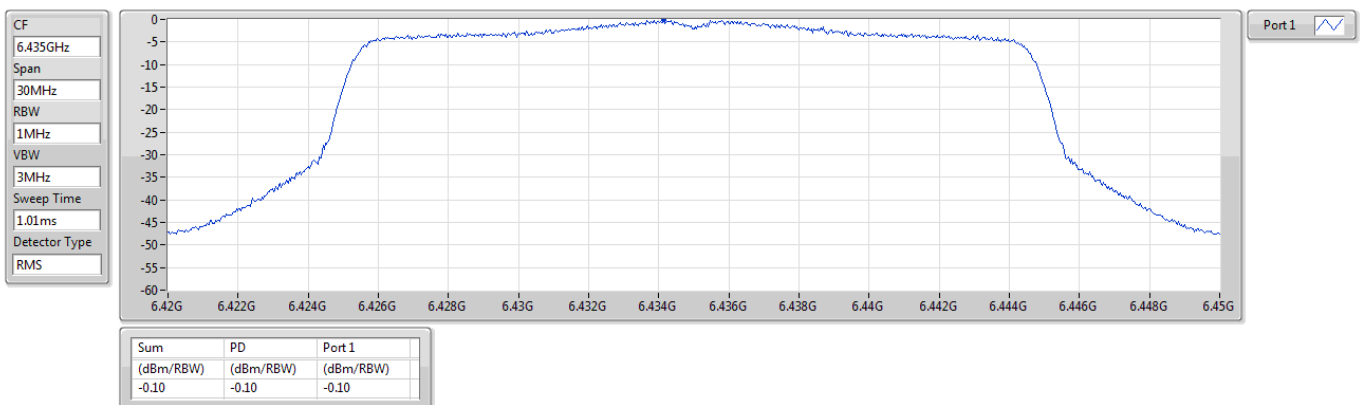
6415MHz



6.425-6.525GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

6435MHz

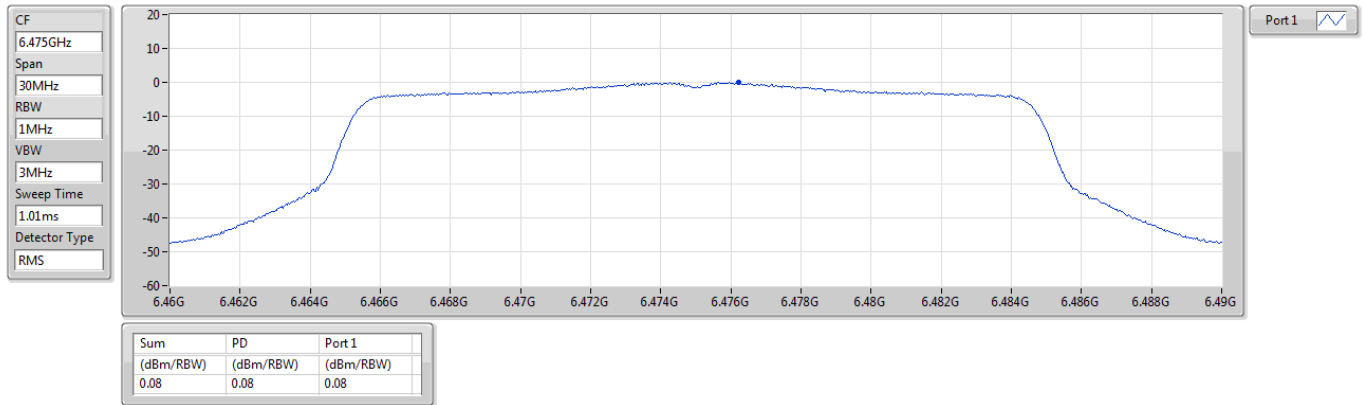




6.425-6.525GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

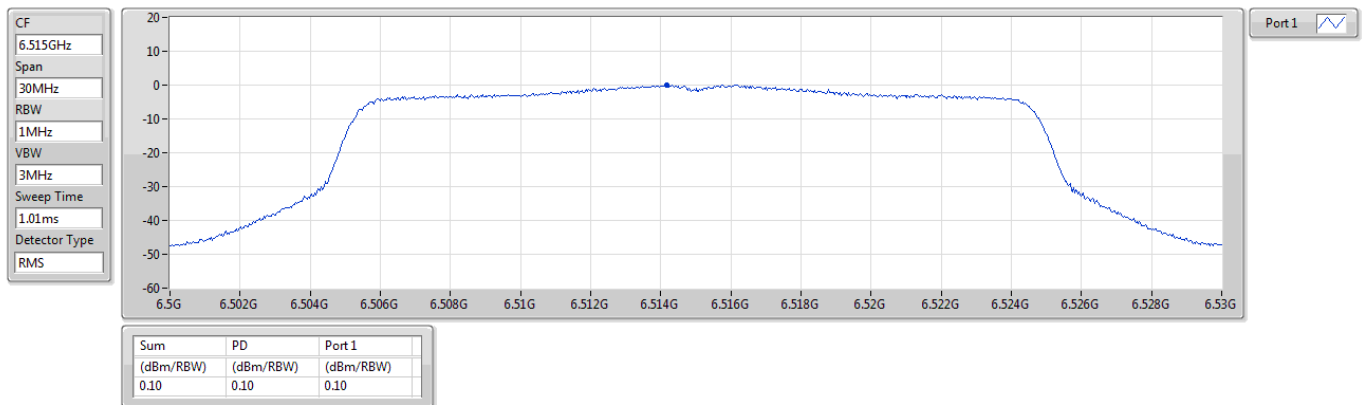
6475MHz



6.425-6.525GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

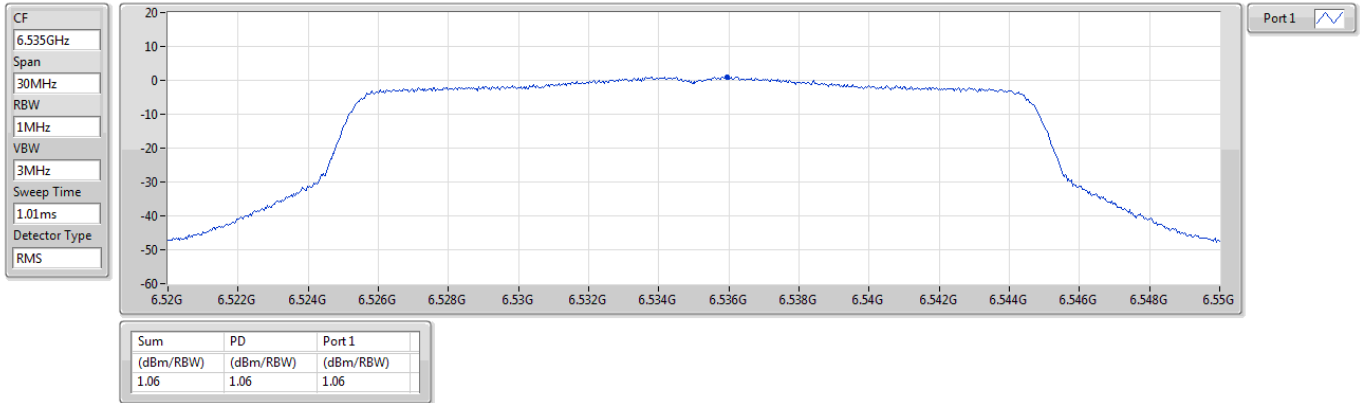
6515MHz



6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

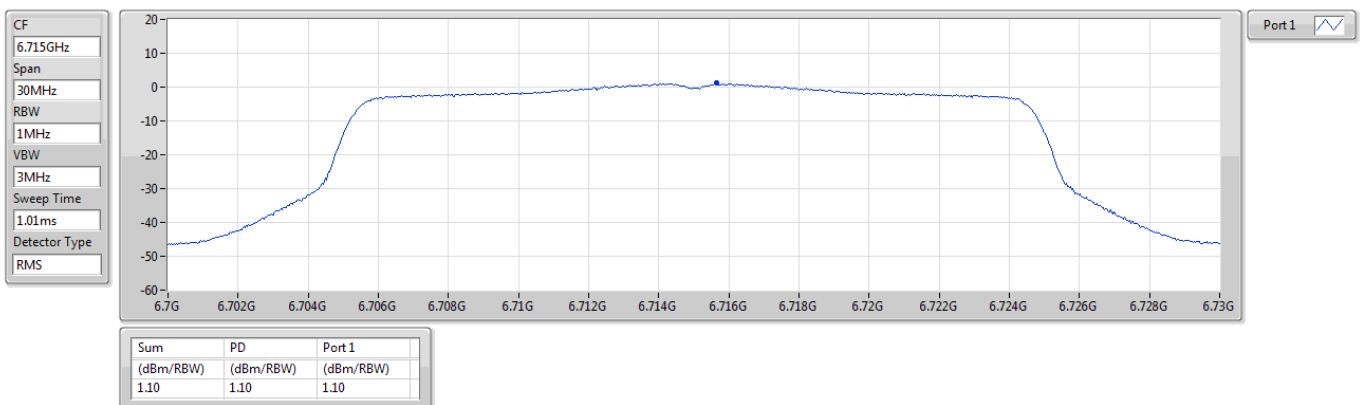
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6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

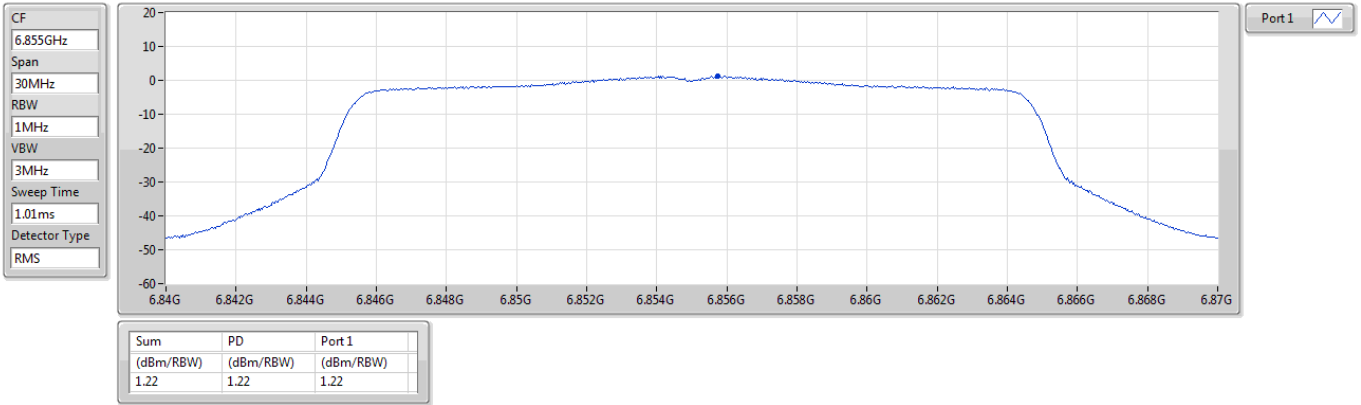
6715MHz



6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

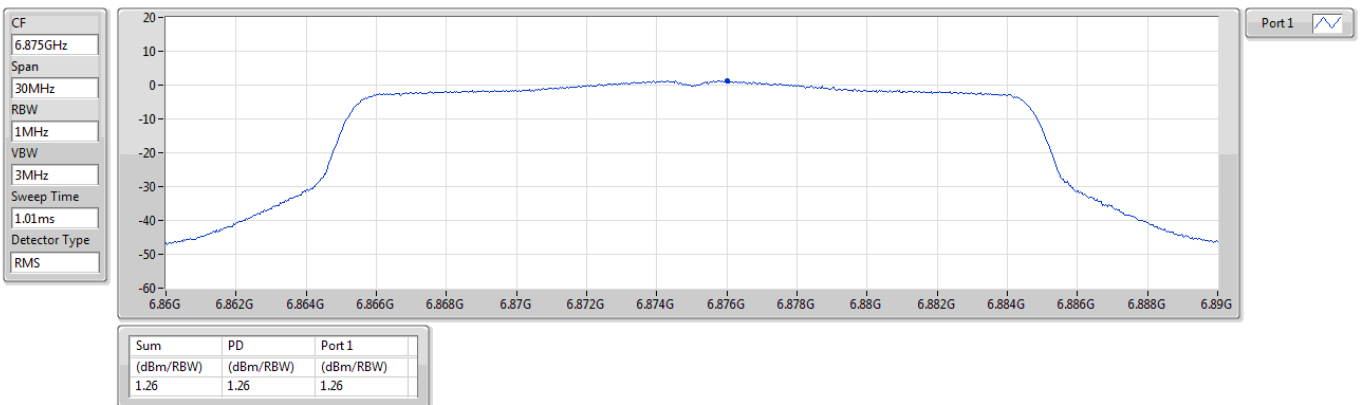
6855MHz



6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

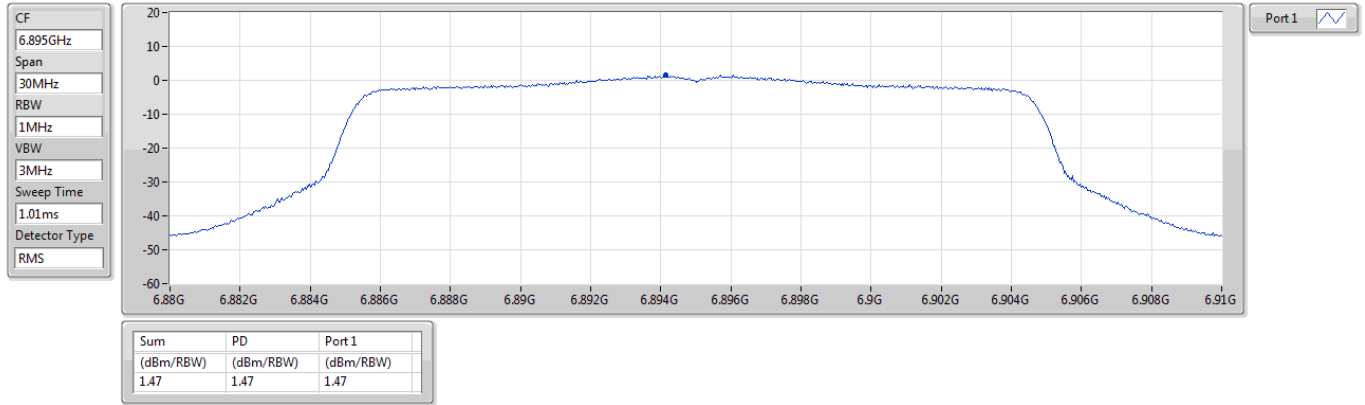
6875MHz Straddle 6.525-6.875GHz



6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

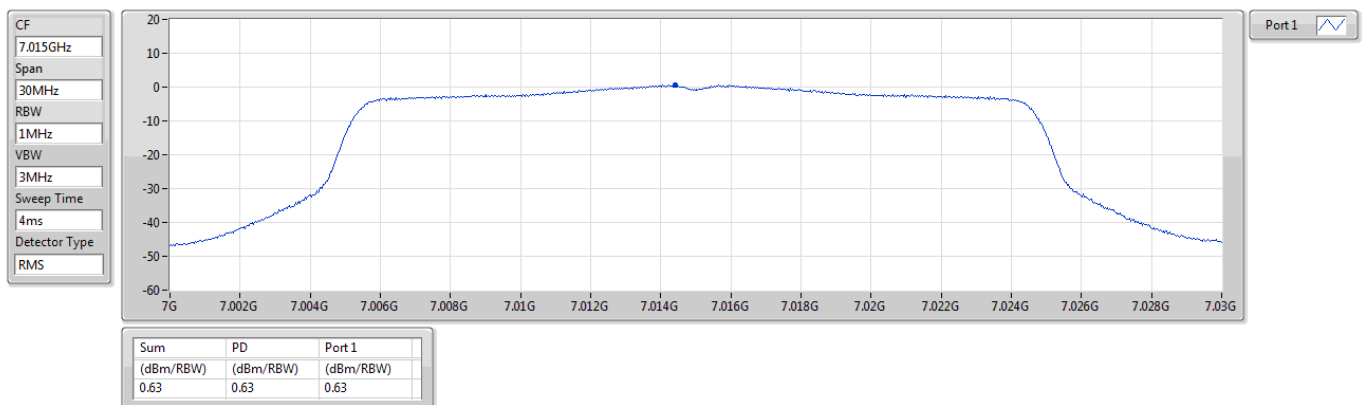
6895MHz



6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

7015MHz

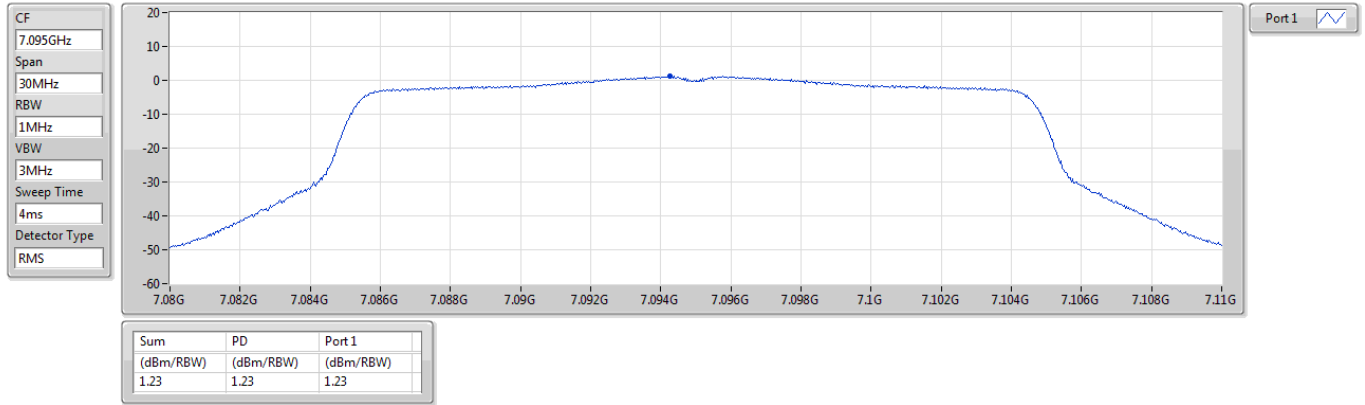




6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

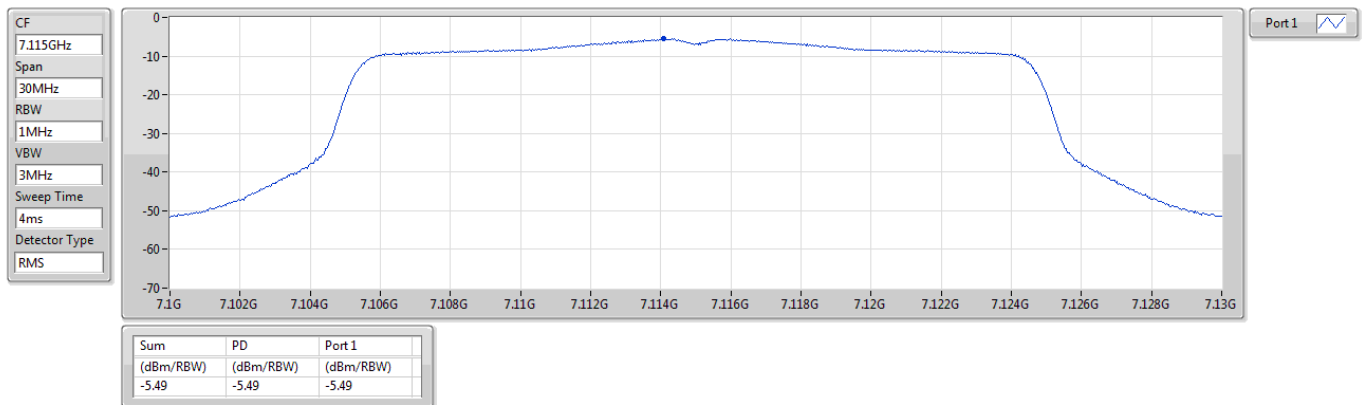
7095MHz



6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

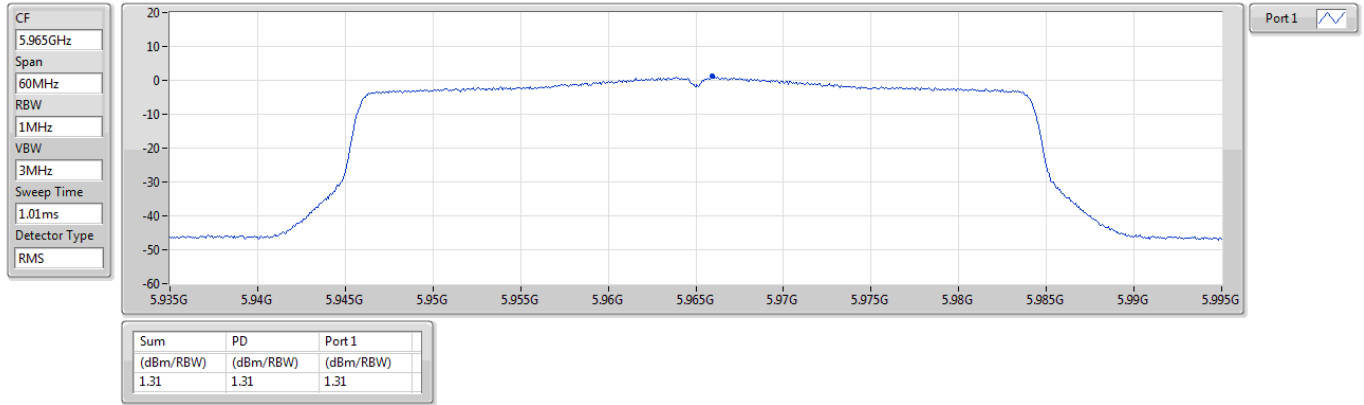
7115MHz



5.925-6.425GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

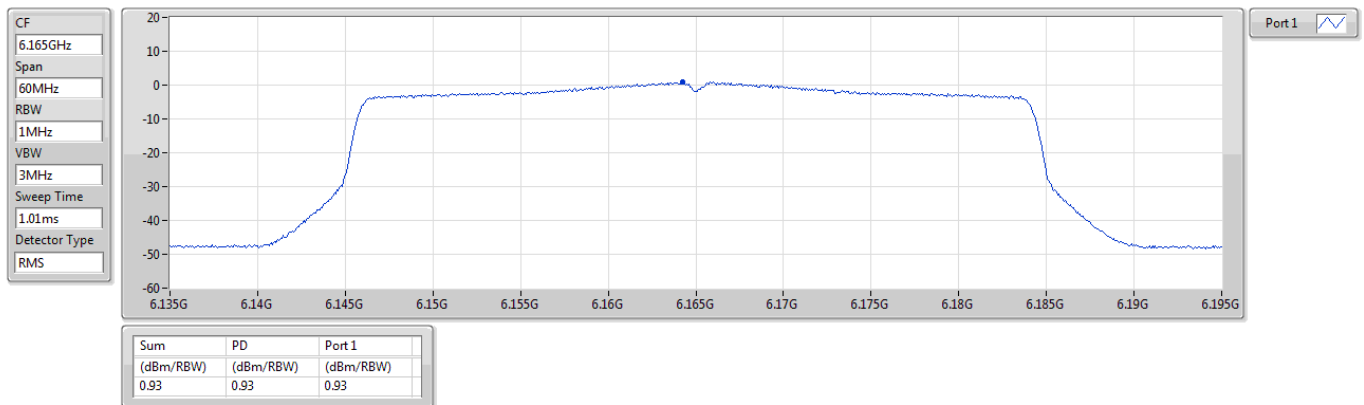
5965MHz



5.925-6.425GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

6165MHz

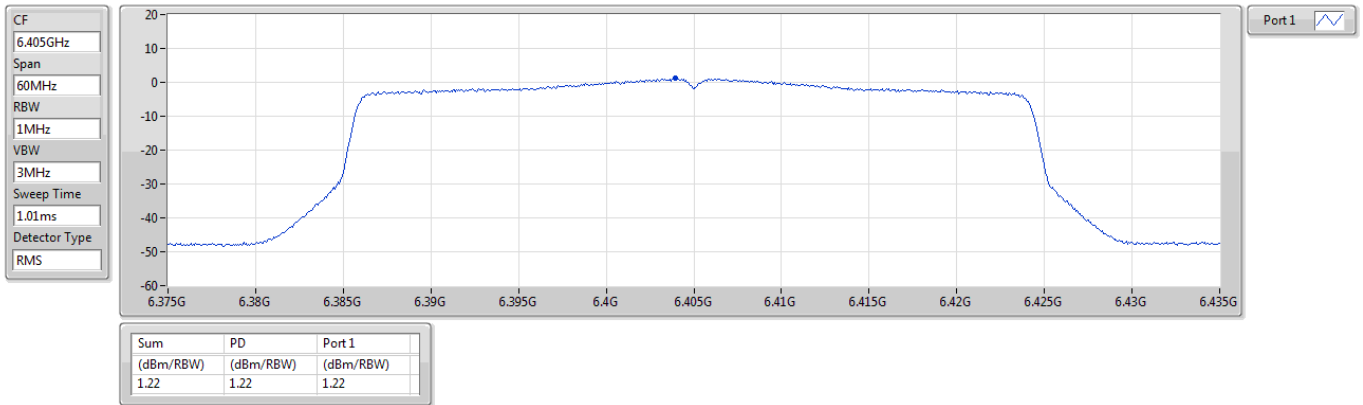




5.925-6.425GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

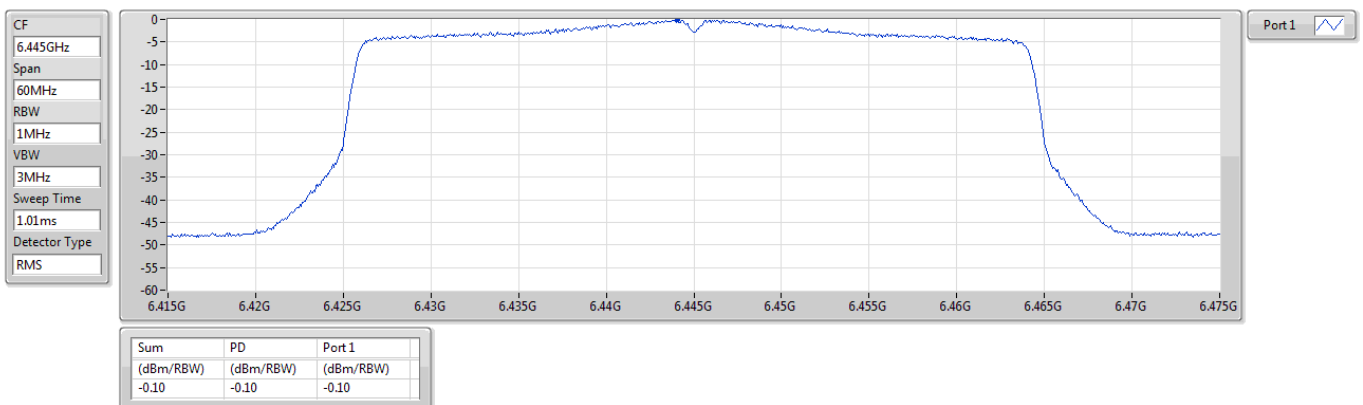
6405MHz



6.425-6.525GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

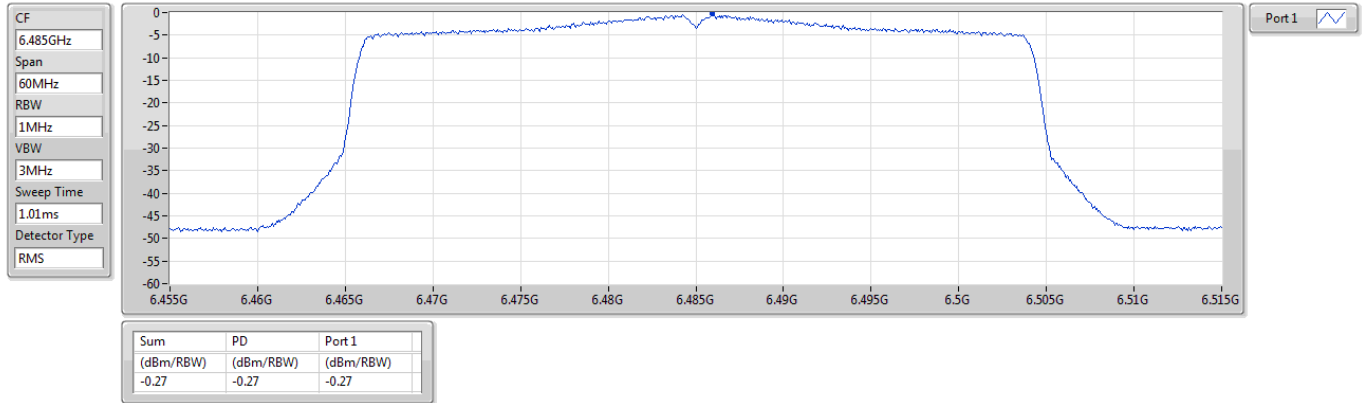
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6.425-6.525GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

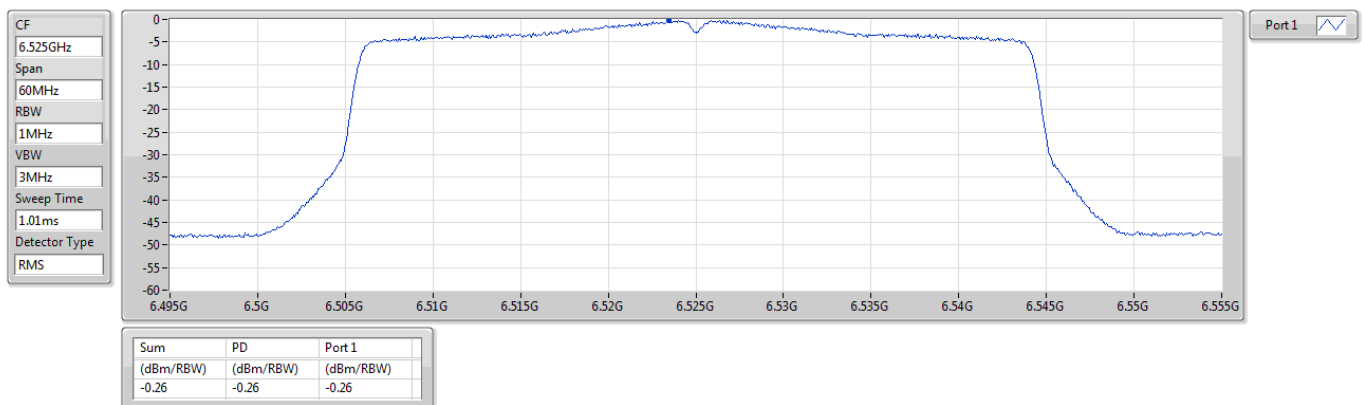
6485MHz



6.425-6.525GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

6525MHz Straddle 6.425-6.525GHz

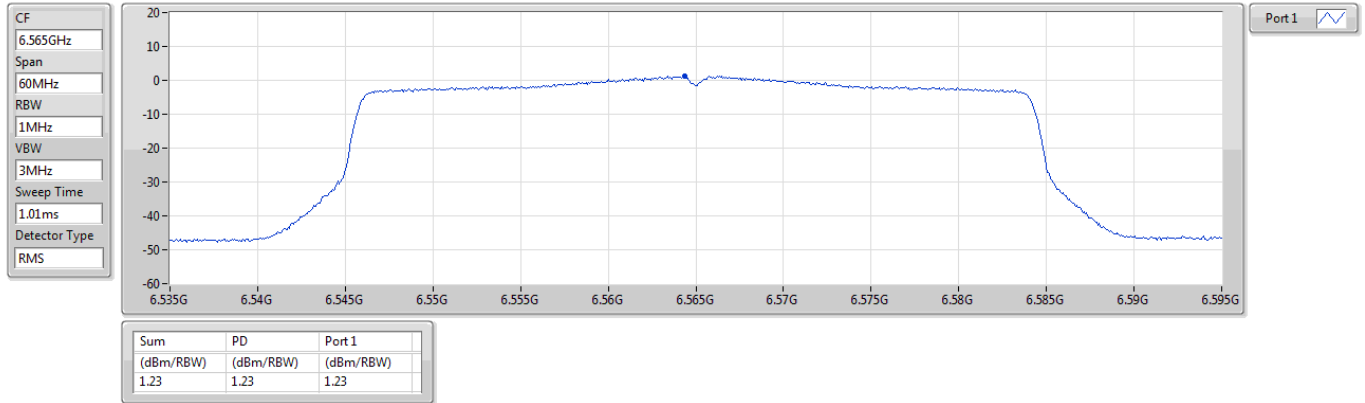




6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

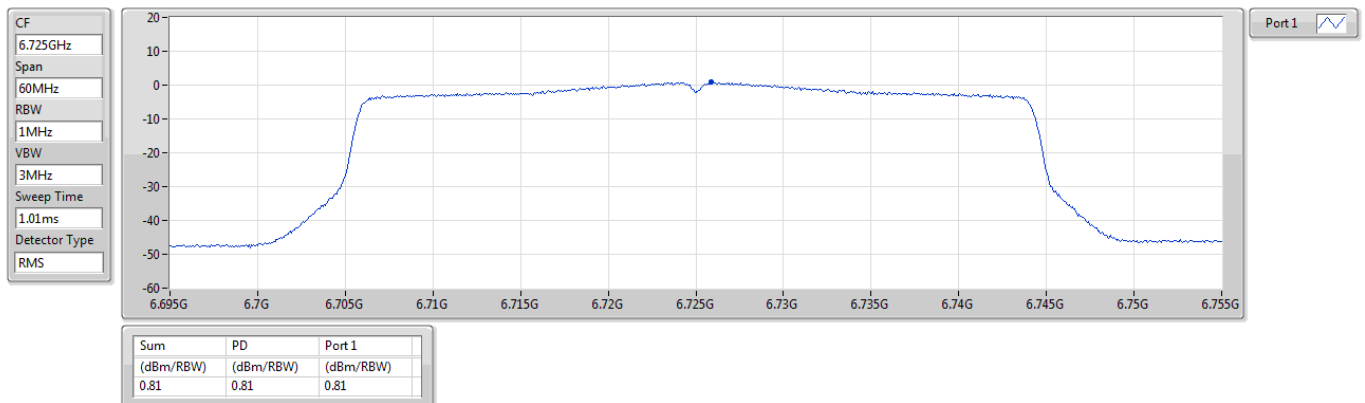
6565MHz



6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

6725MHz

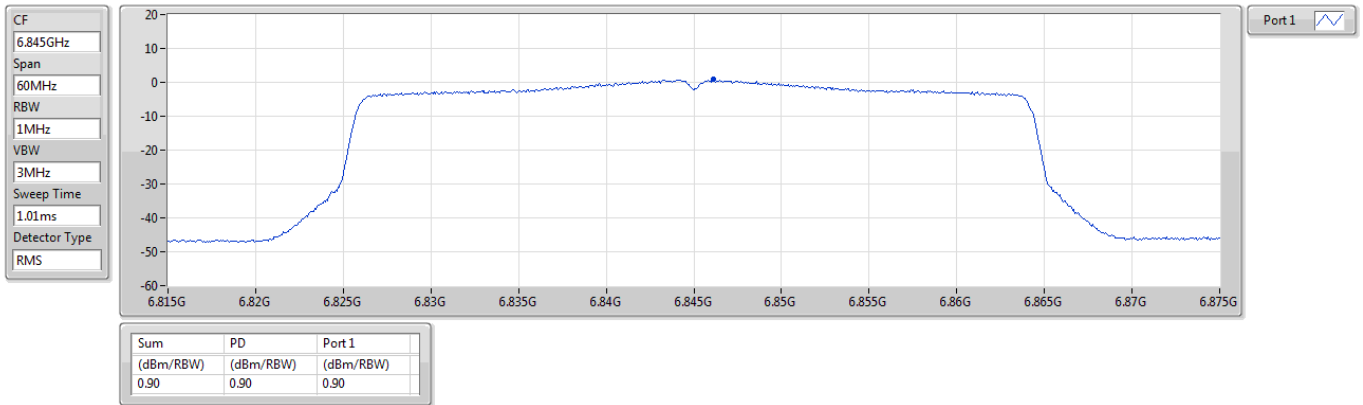




6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

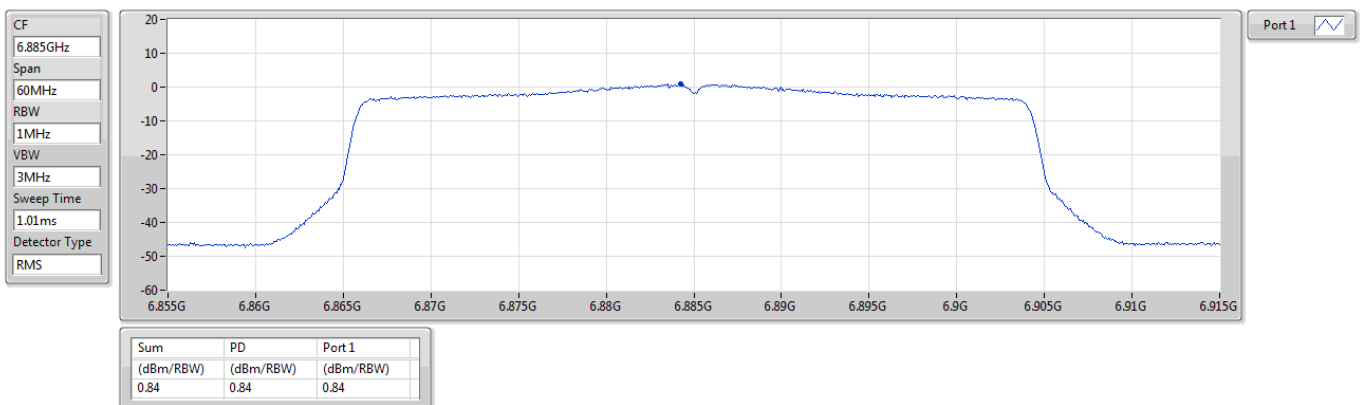
6845MHz



6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

6885MHz Straddle 6.525-6.875GHz

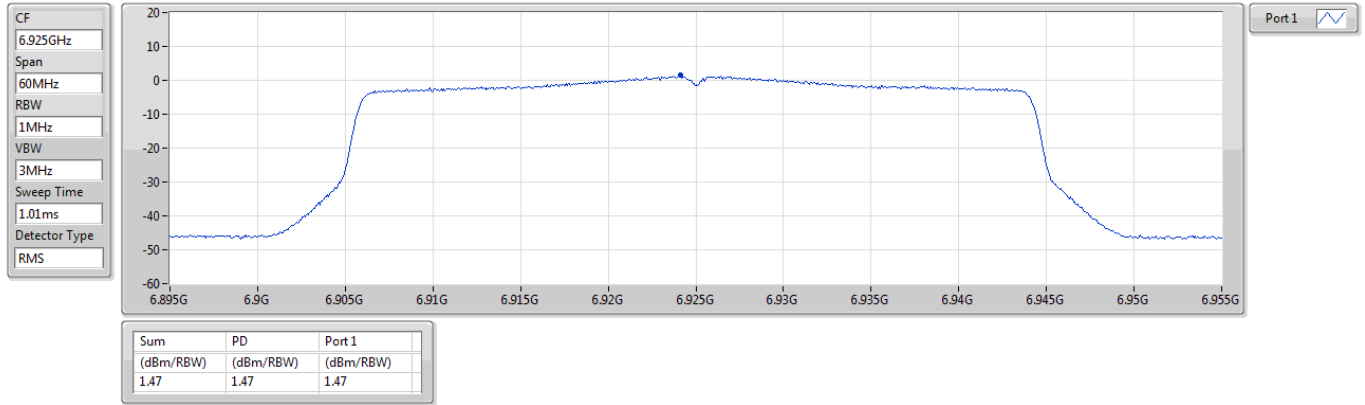




6.875-7.125GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

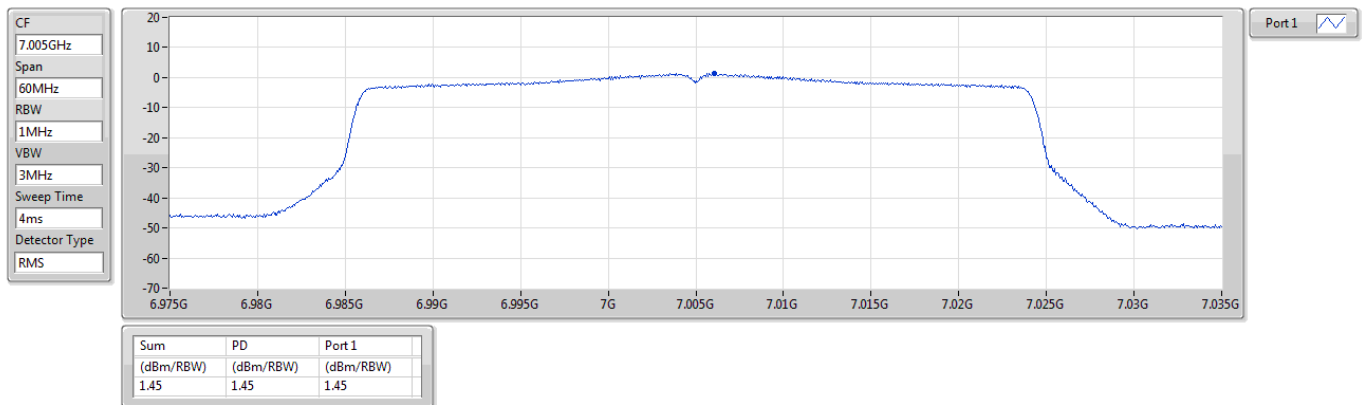
6925MHz



6.875-7.125GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

7005MHz

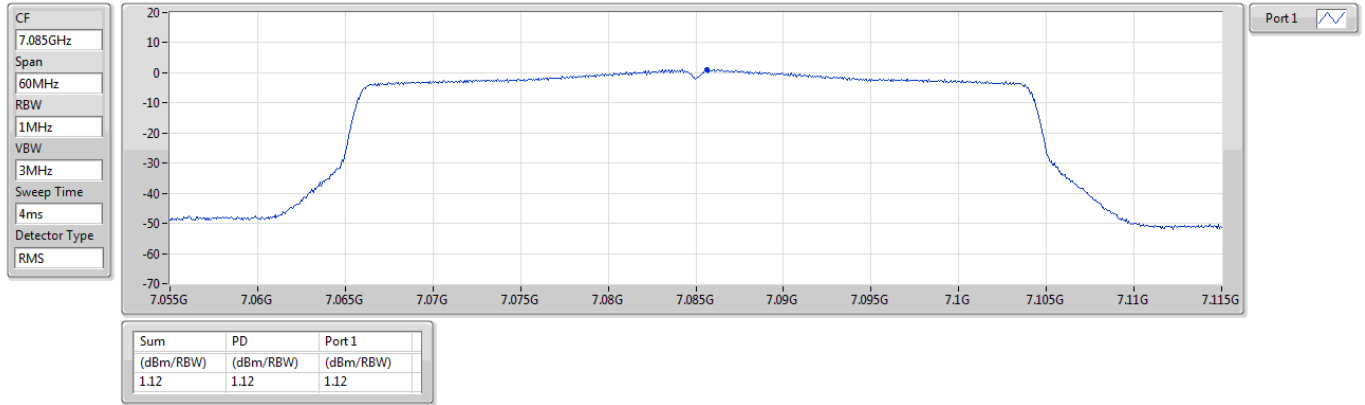




6.875-7.125GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

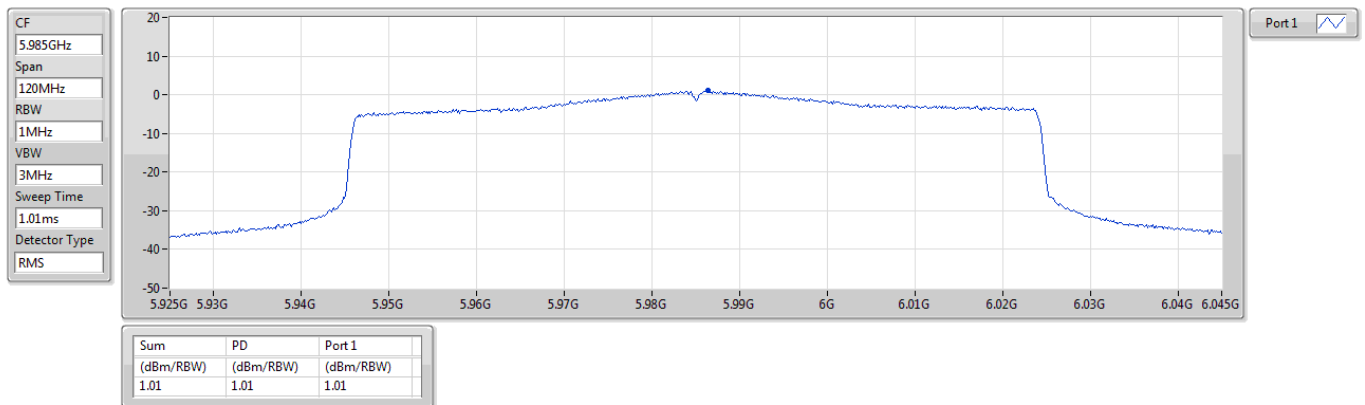
7085MHz



5.925-6.425GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

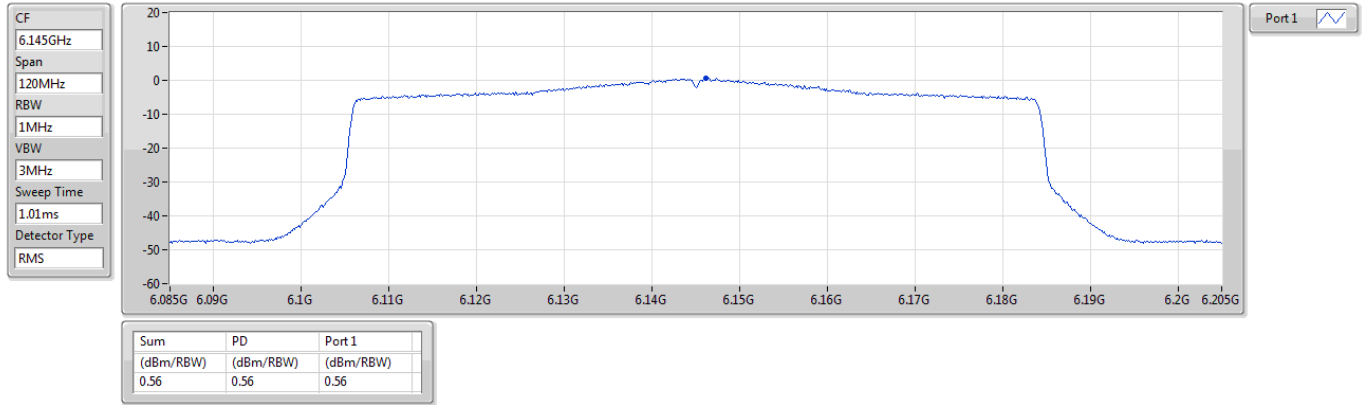
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5.925-6.425GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

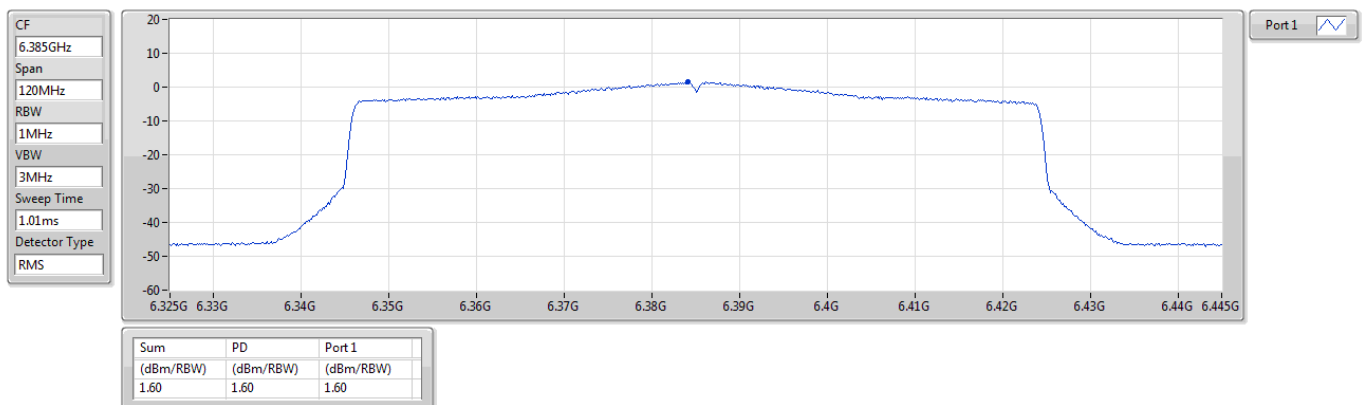
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5.925-6.425GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

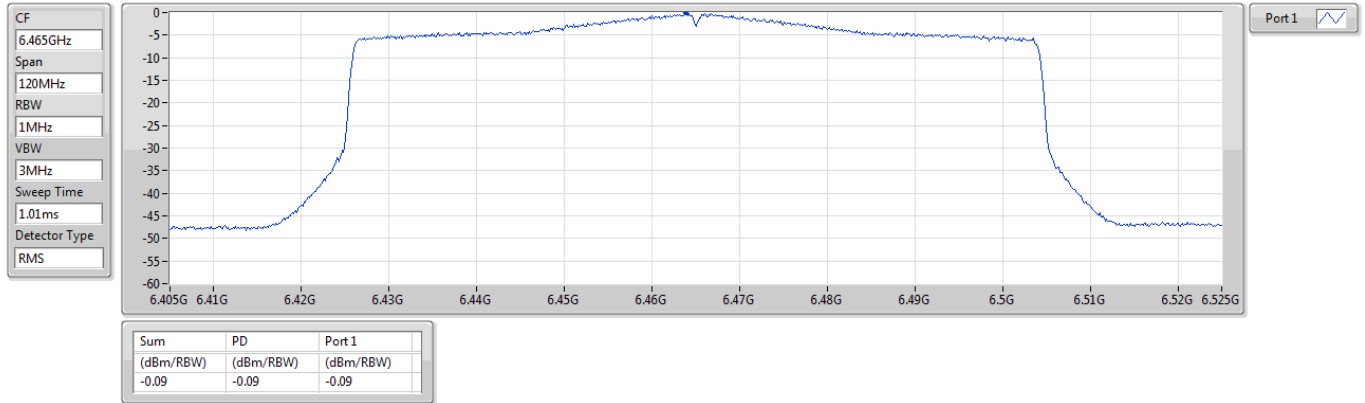
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6.425-6.525GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

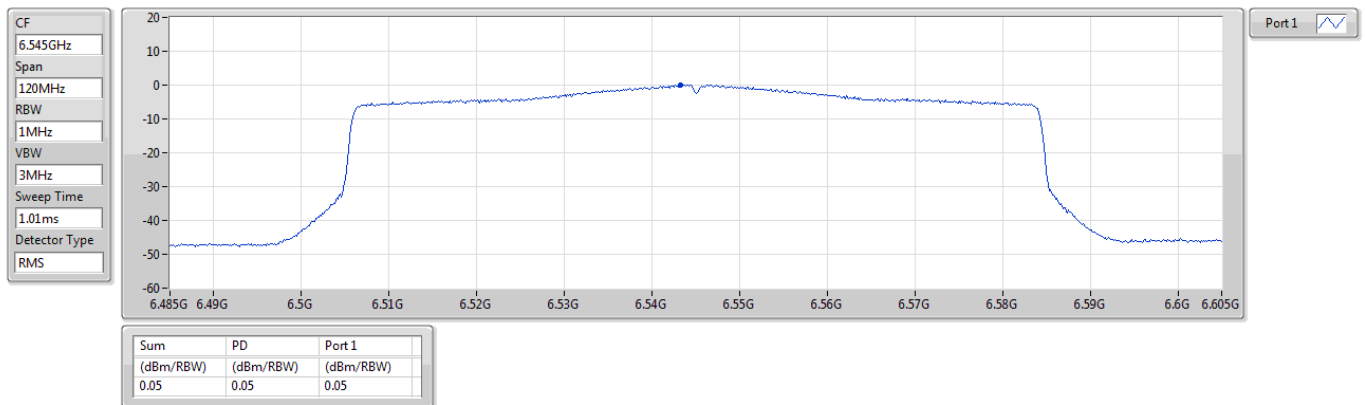
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6.425-6.525GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

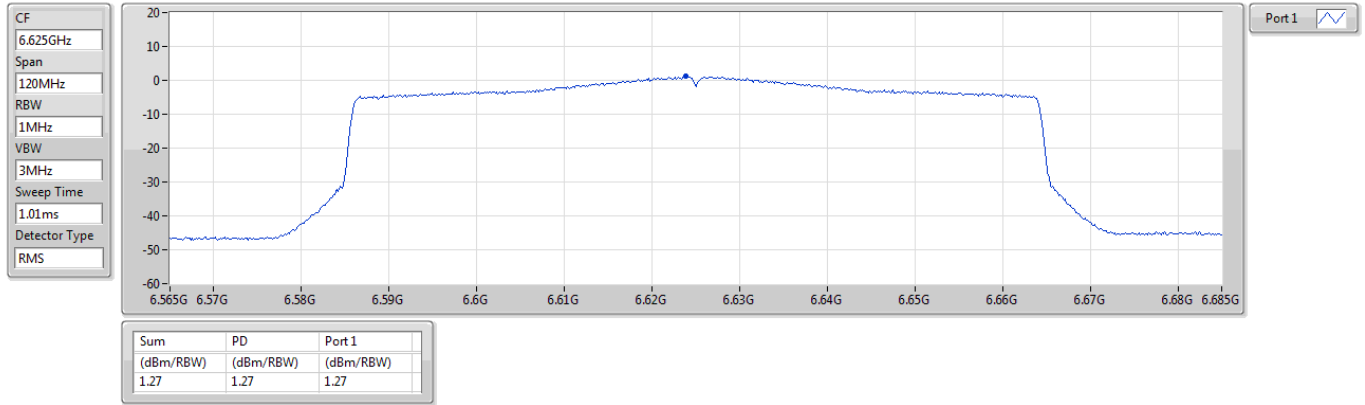
6545MHz Straddle 6.425-6.525GHz



6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

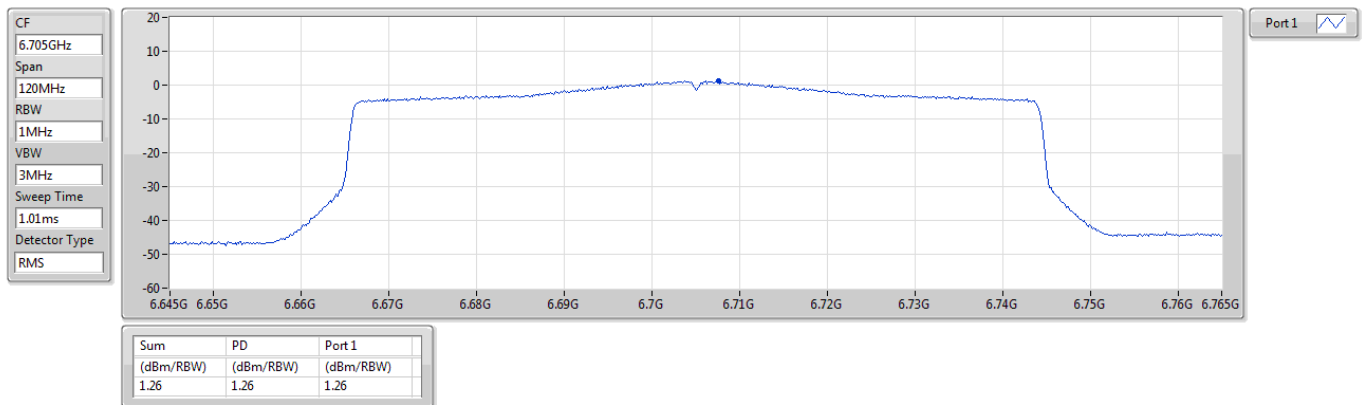
6625MHz



6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

6705MHz

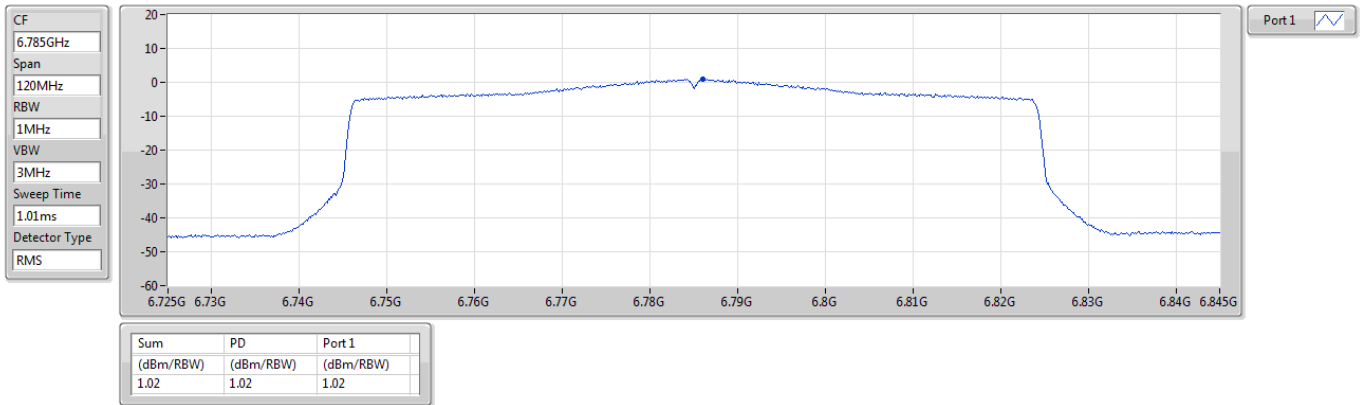




6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

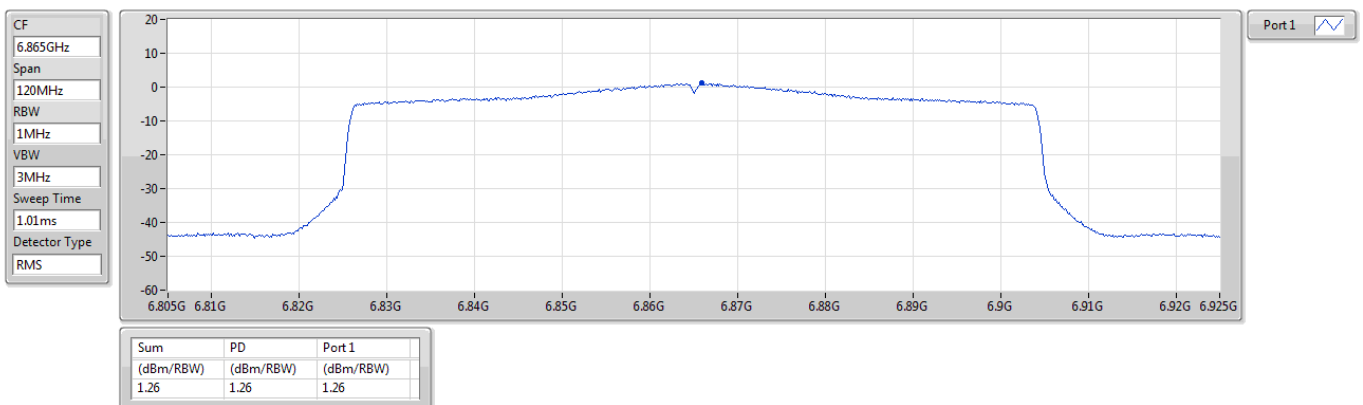
6785MHz



6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

6865MHz Straddle 6.525-6.875GHz

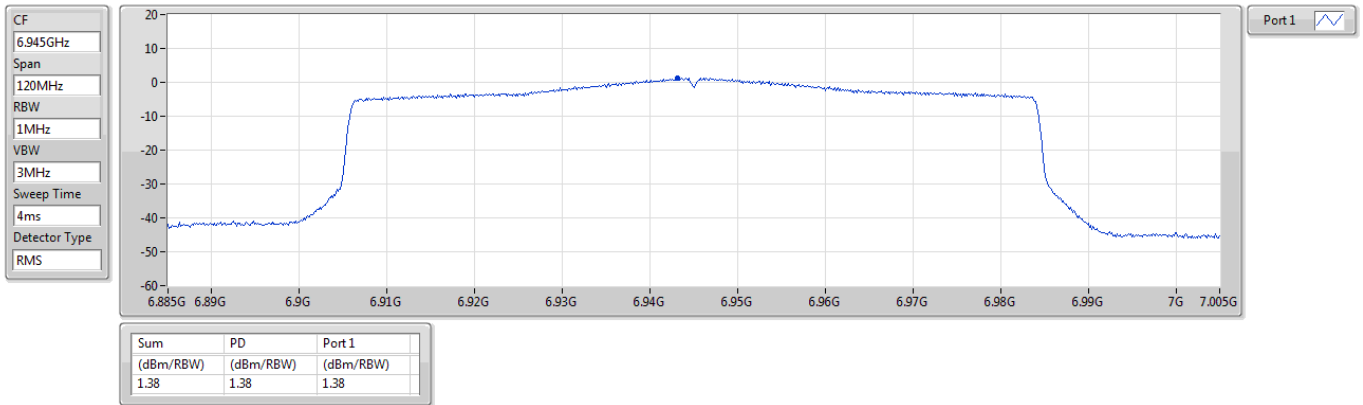




6.875-7.125GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

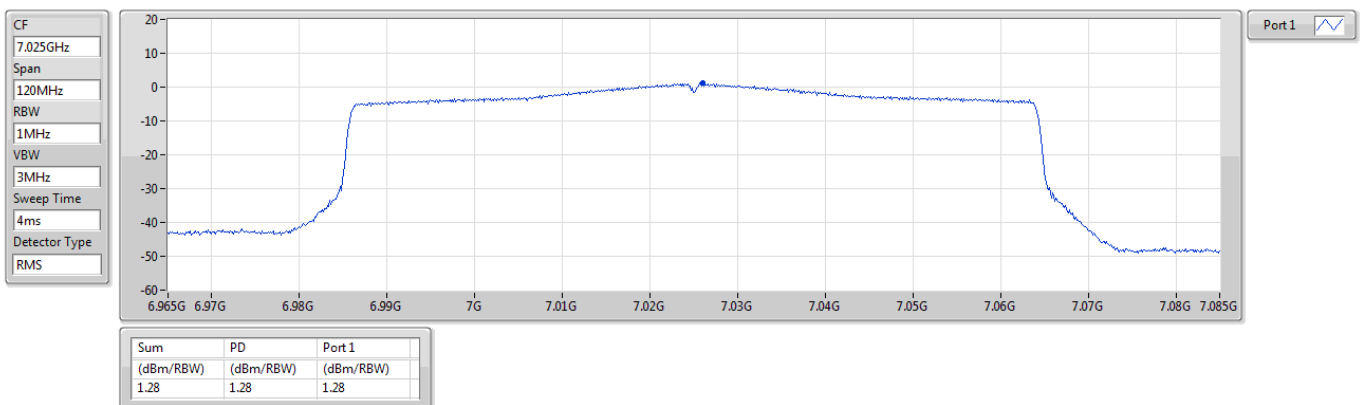
6945MHz



6.875-7.125GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

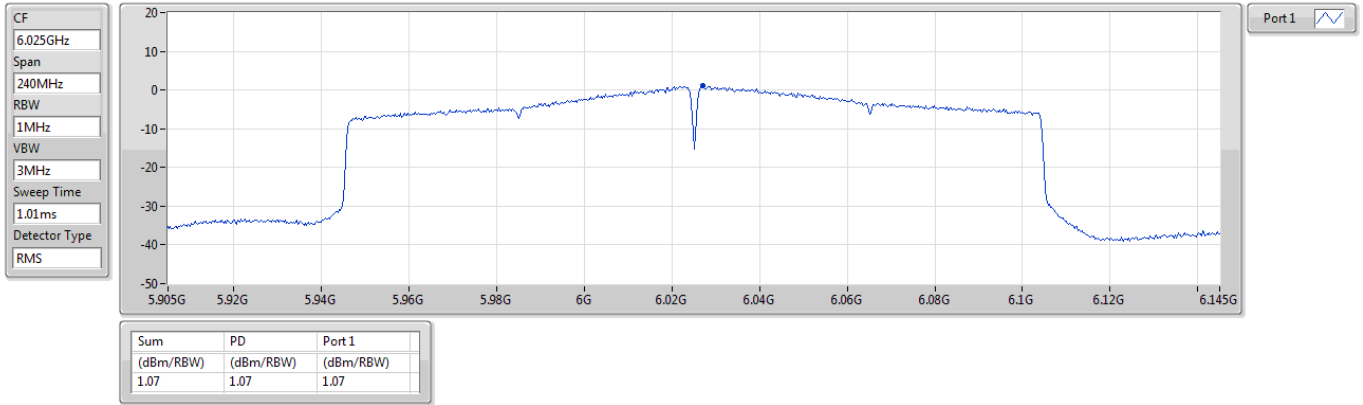
7025MHz



5.925-6.425GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

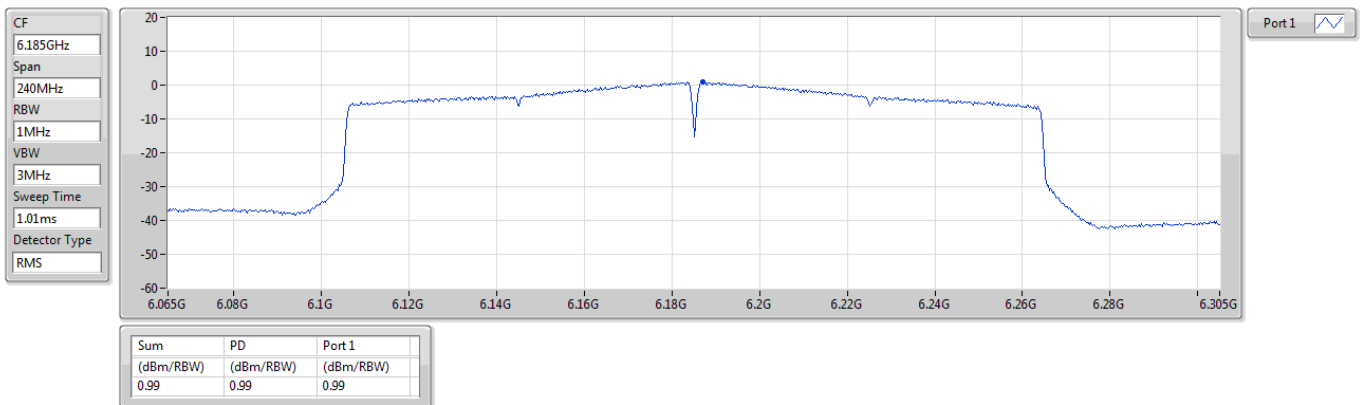
6025MHz



5.925-6.425GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

6185MHz

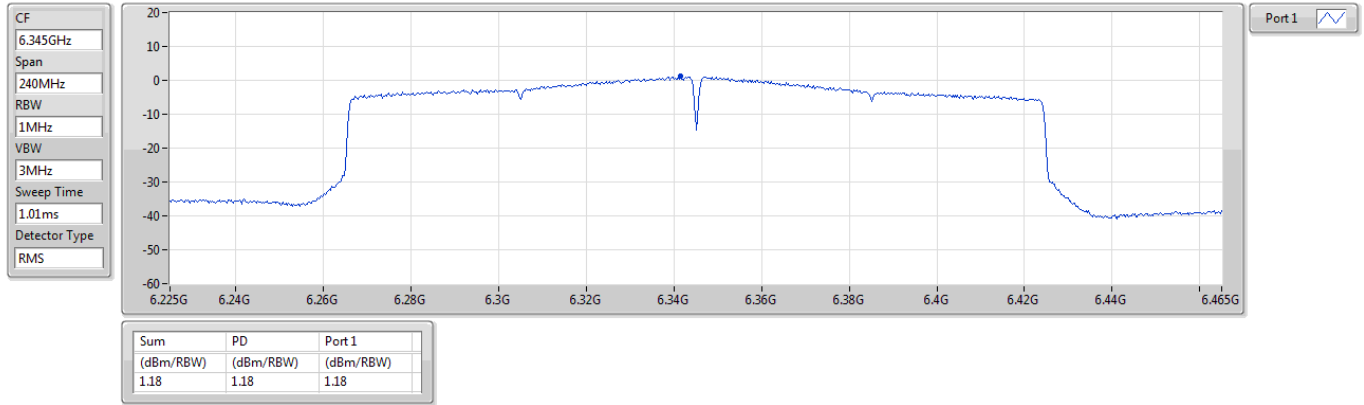




5.925-6.425GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

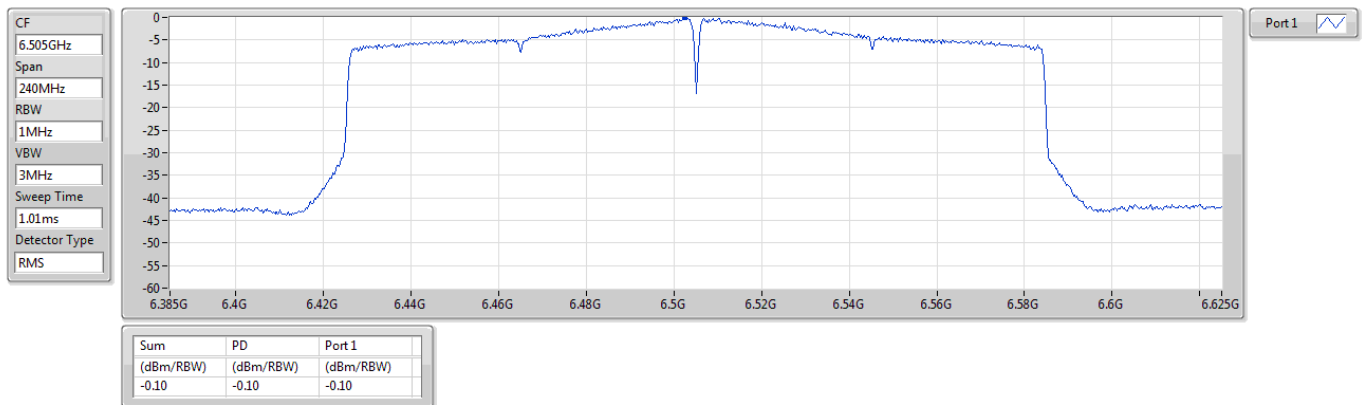
6345MHz



6.425-6.525GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

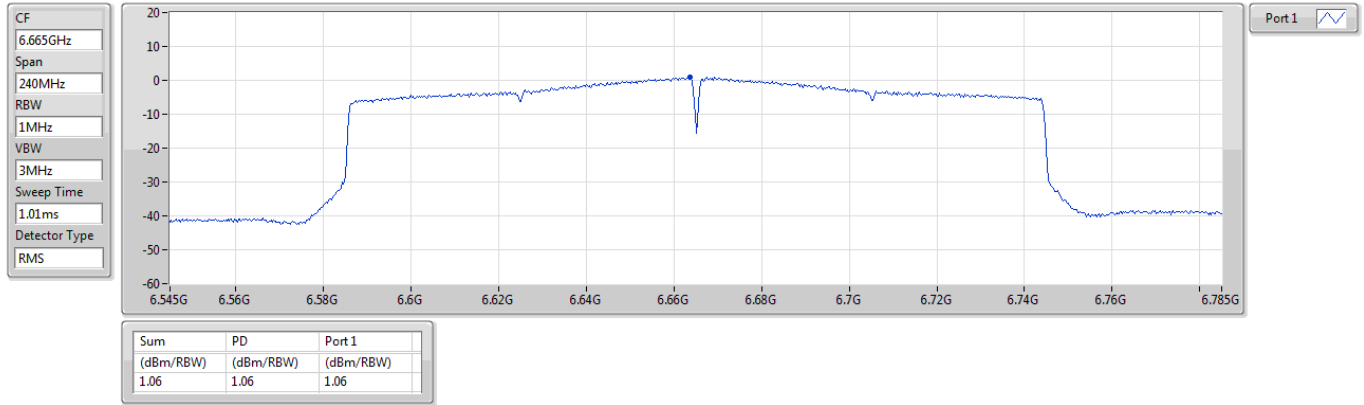
6505MHz Straddle 6.425-6.525GHz



6.525-6.875GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

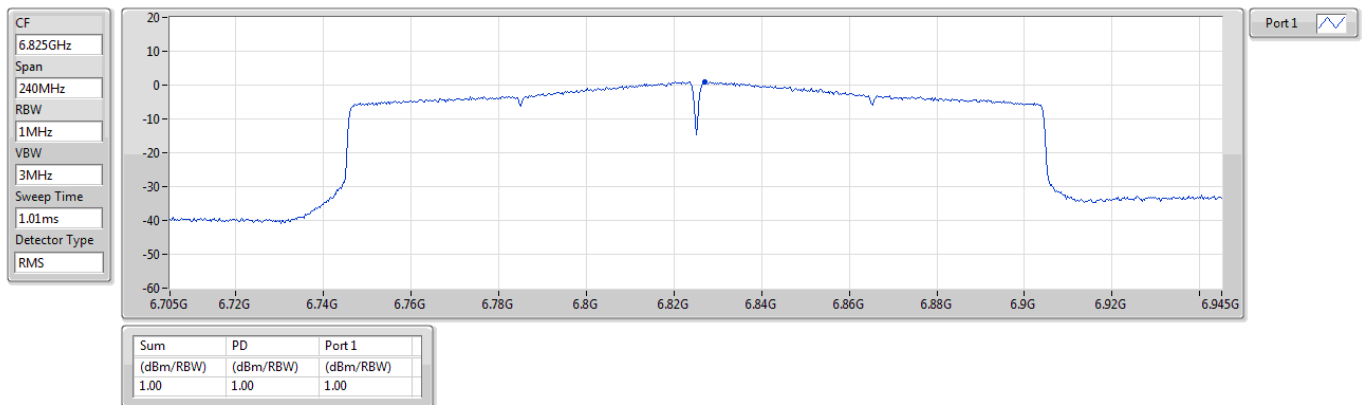
6665MHz



6.525-6.875GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

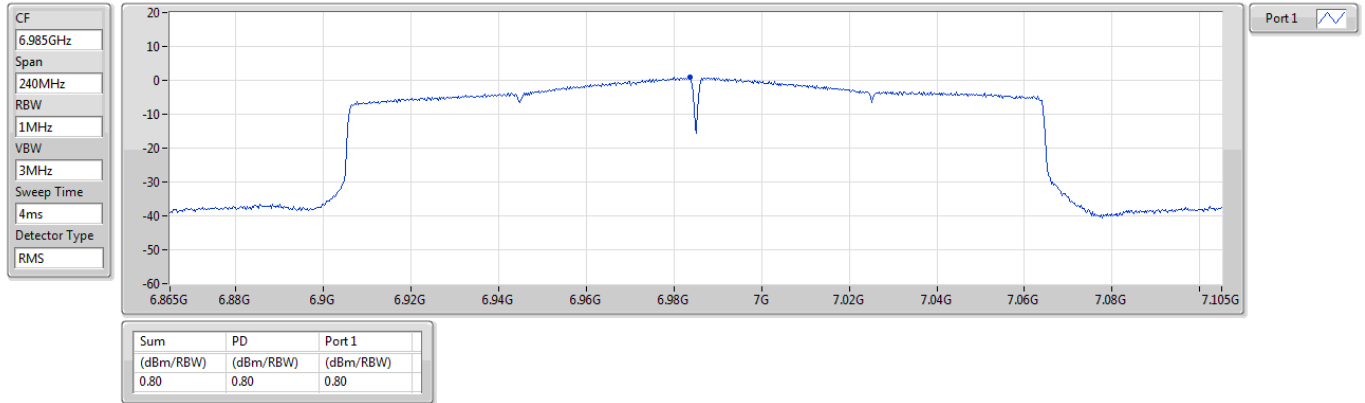
6825MHz Straddle 6.525-6.875GHz



6.875-7.125GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

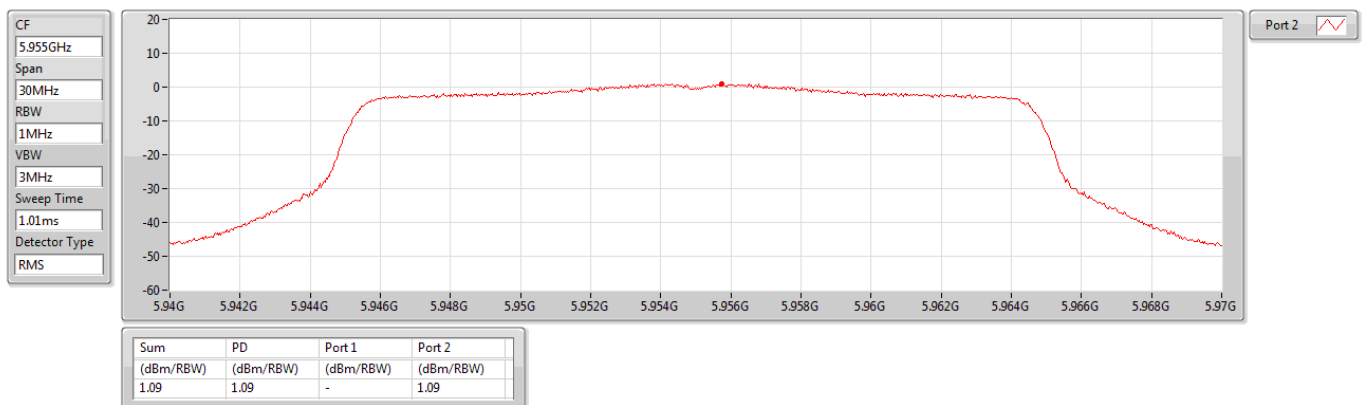
6985MHz



5.925-6.425GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

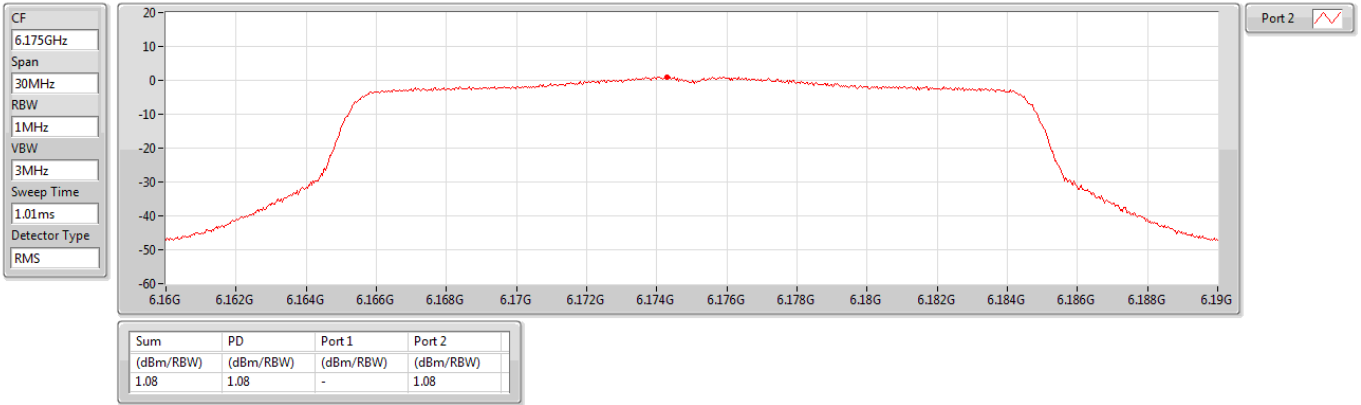
5955MHz



5.925-6.425GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

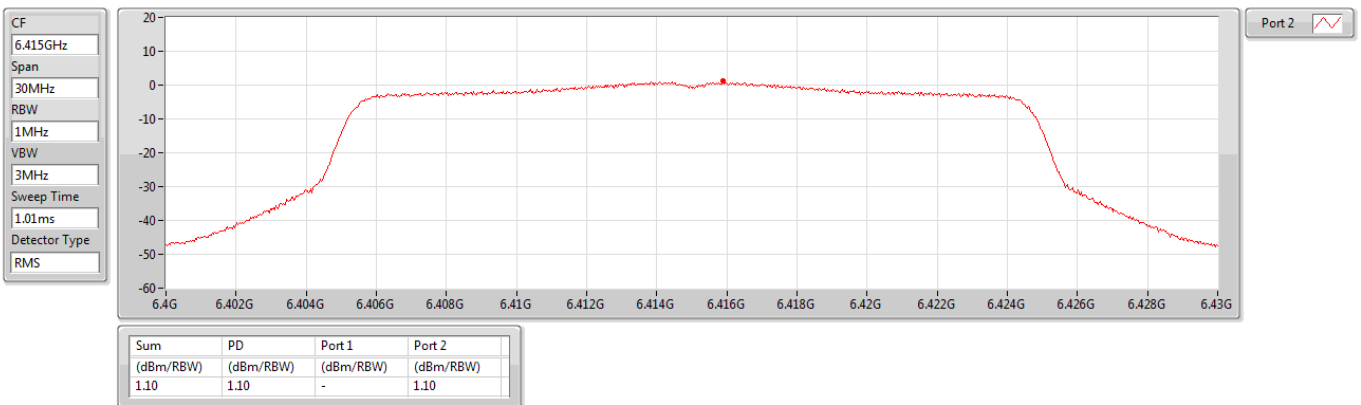
6175MHz



5.925-6.425GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

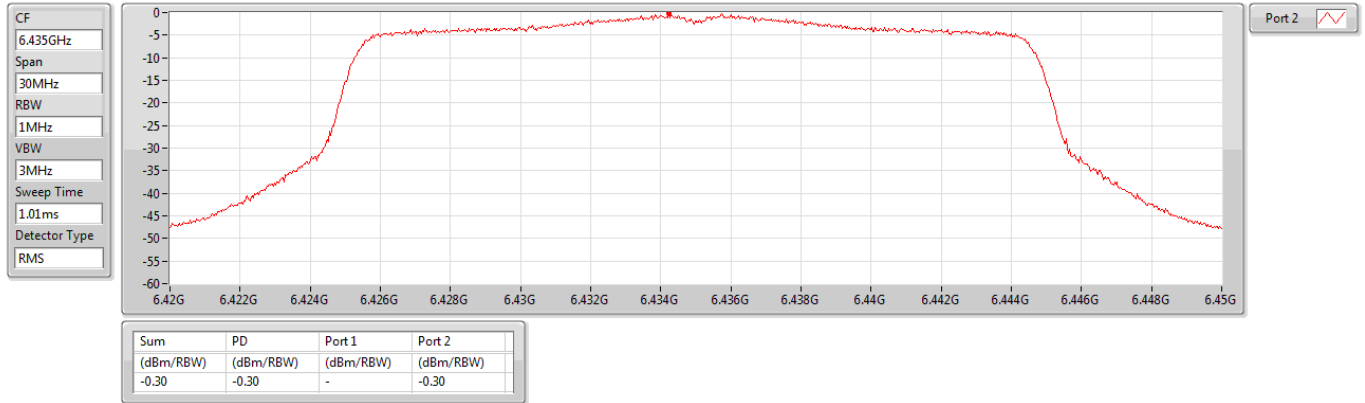
6415MHz



6.425-6.525GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

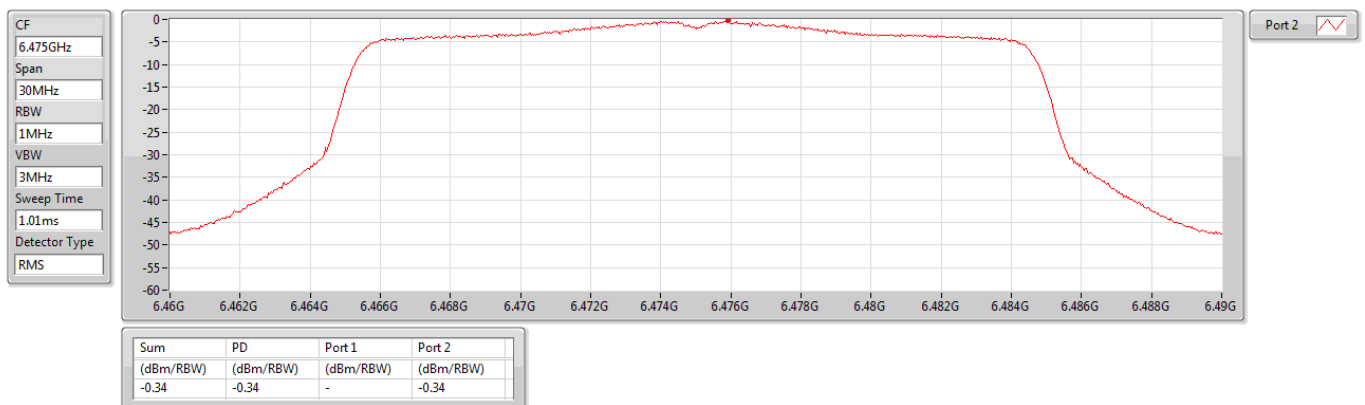
6435MHz



6.425-6.525GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

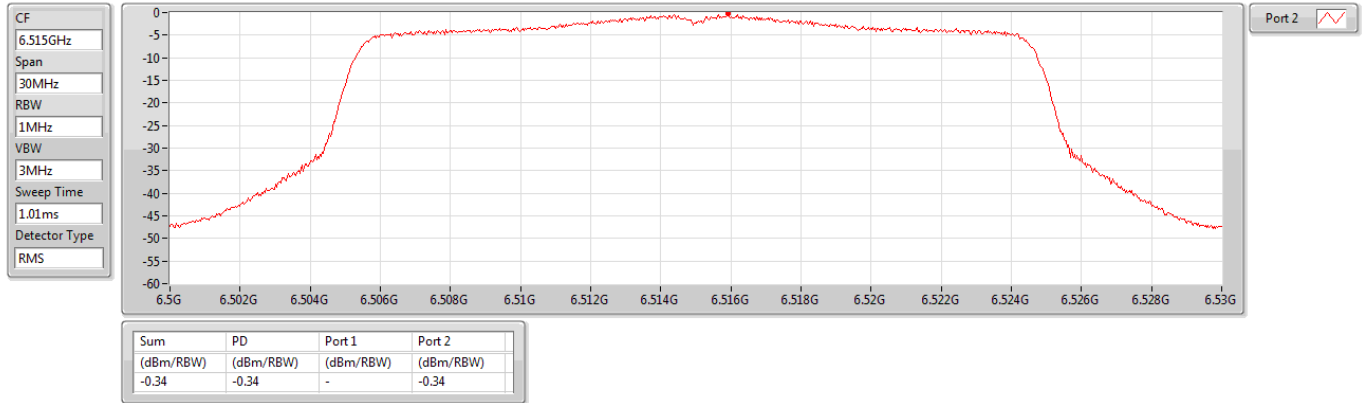
6475MHz



6.425-6.525GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

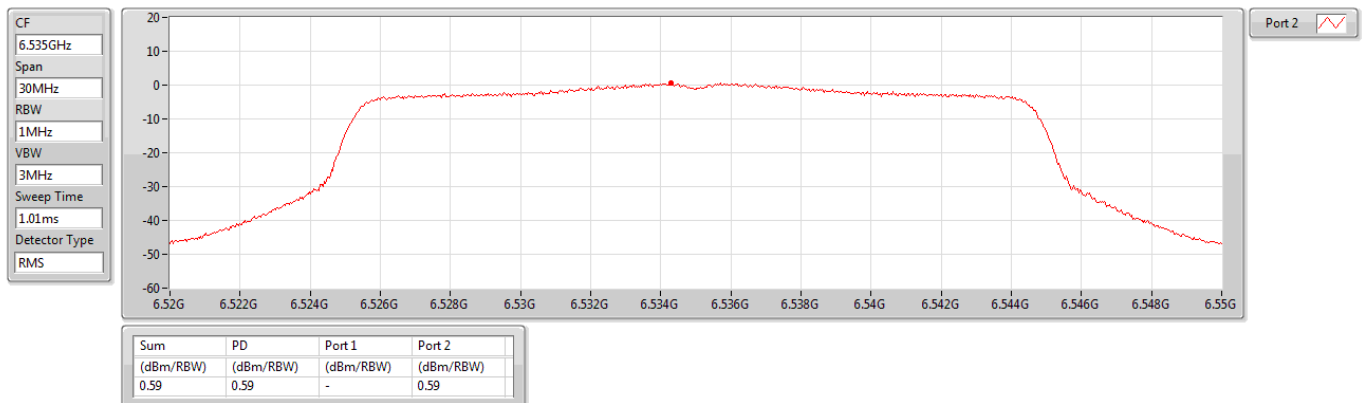
6515MHz



6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

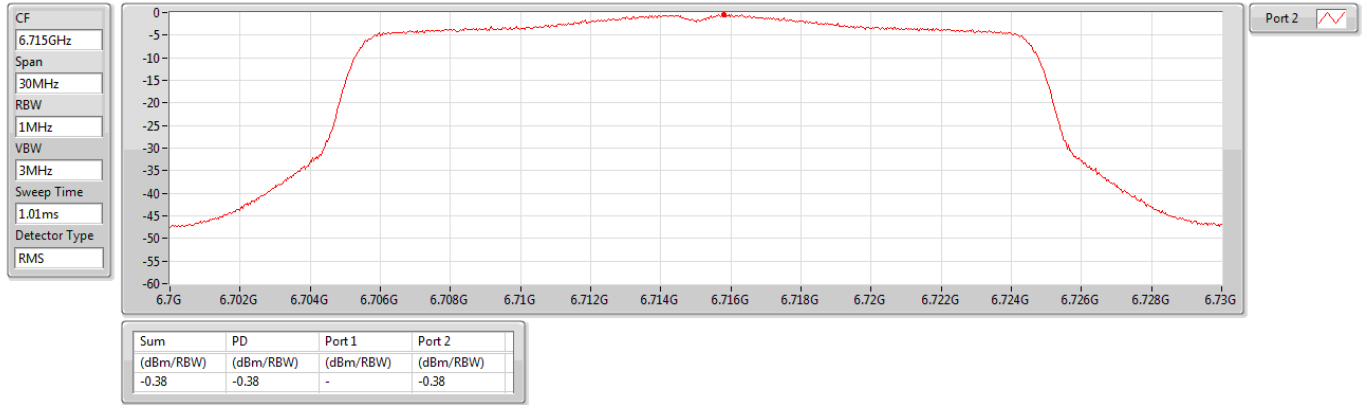
6535MHz



6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

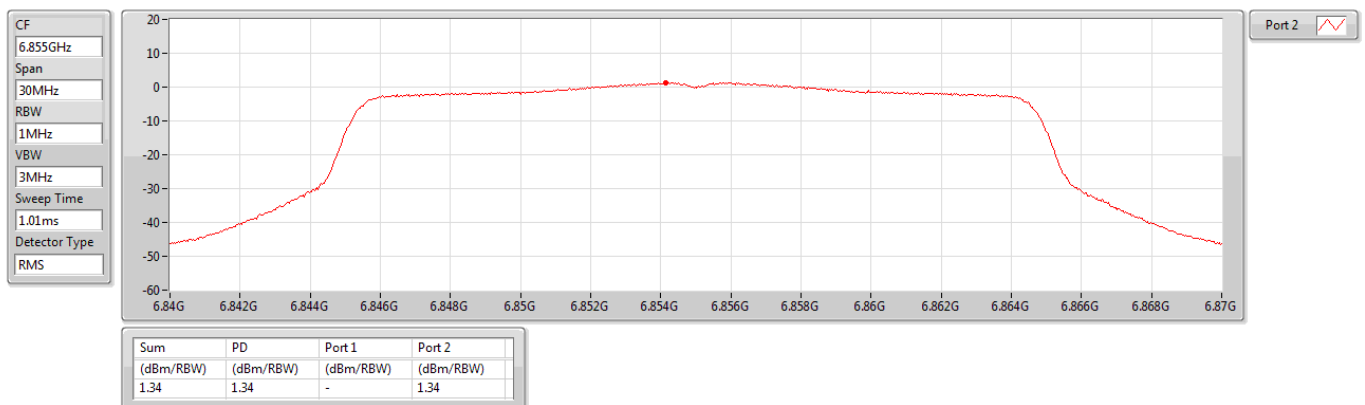
6715MHz



6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

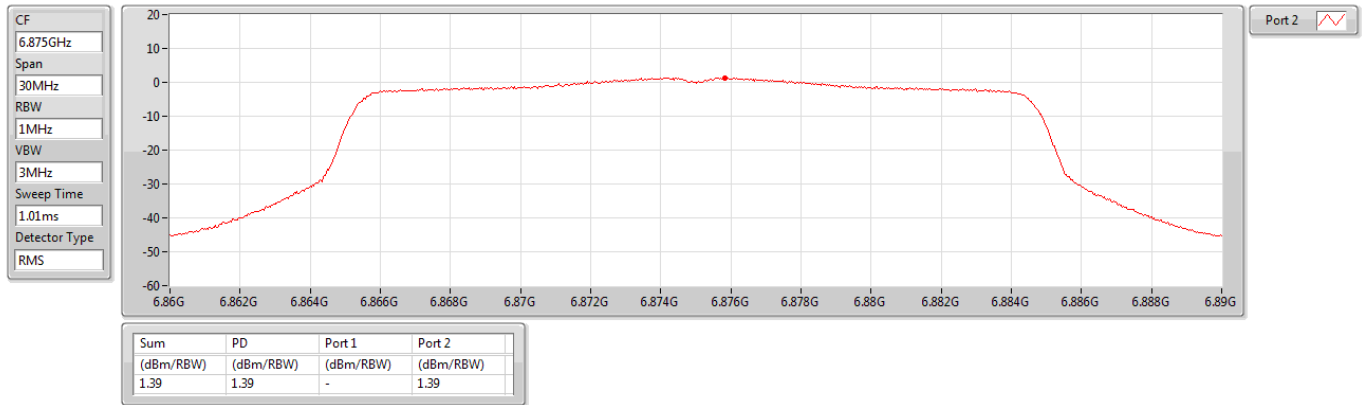
6855MHz



6.525-6.875GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

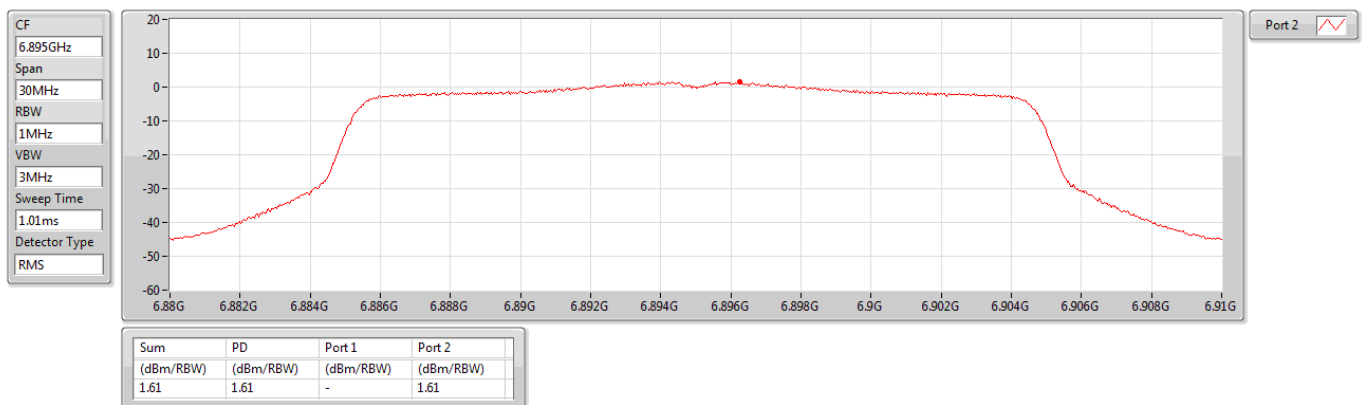
6875MHz Straddle 6.525-6.875GHz



6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

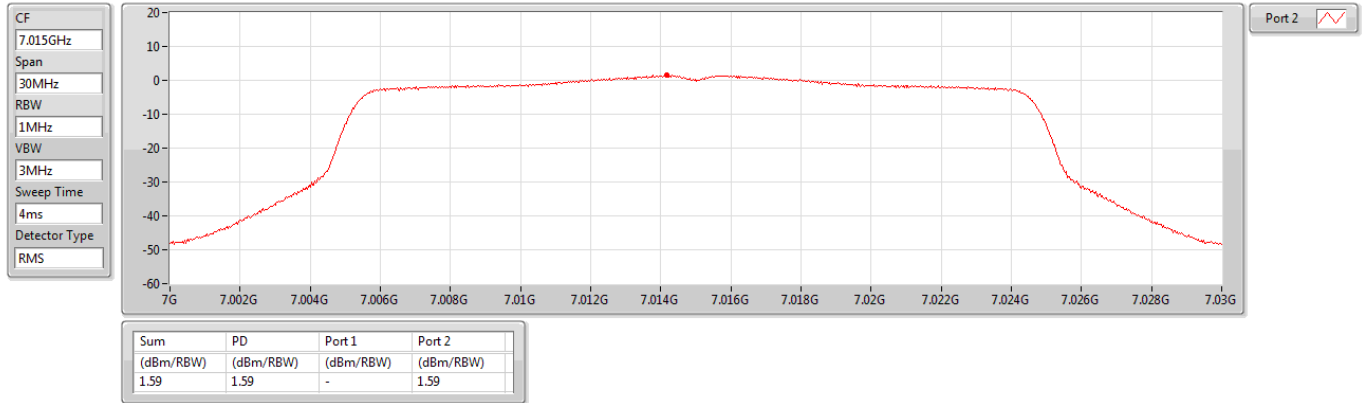
6895MHz



6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

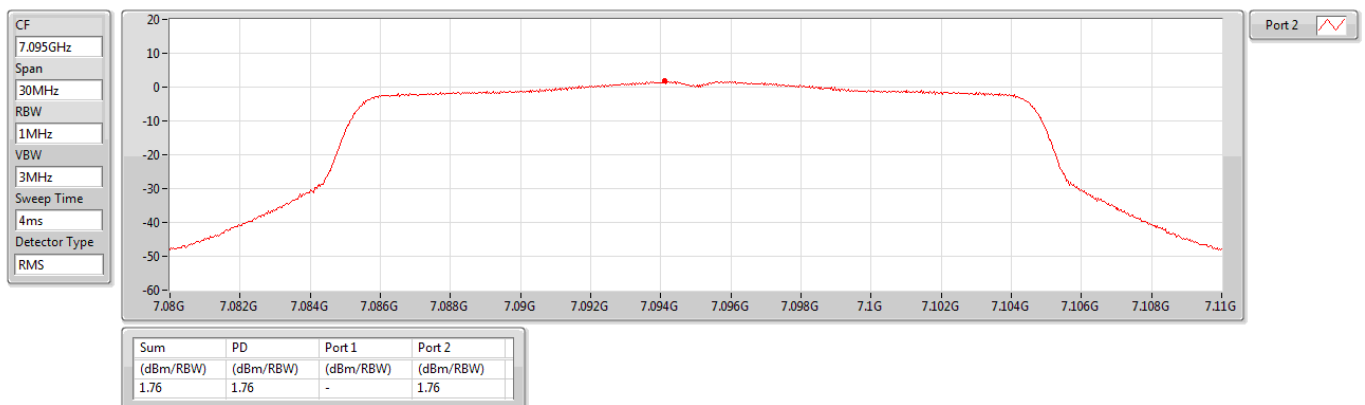
7015MHz



6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

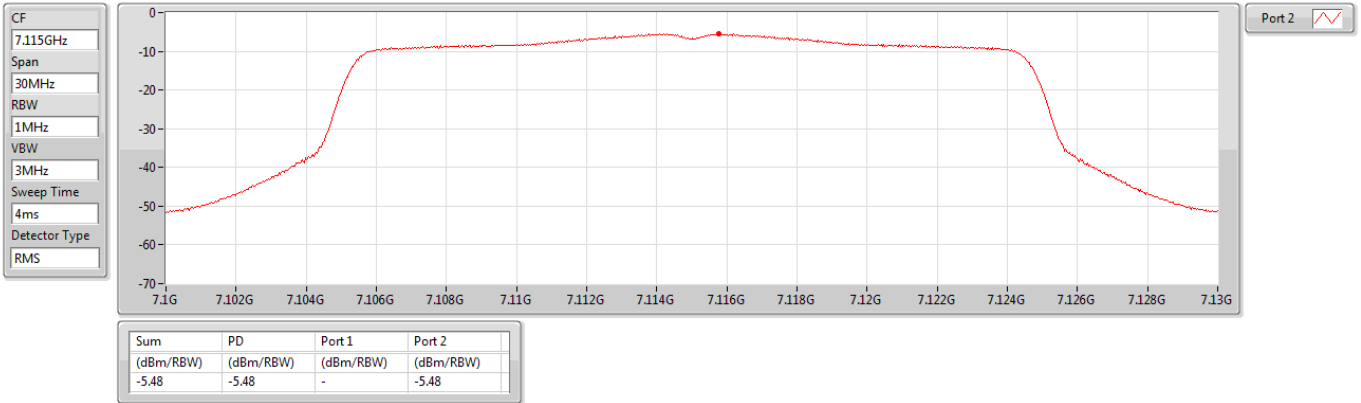
7095MHz



6.875-7.125GHz_802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

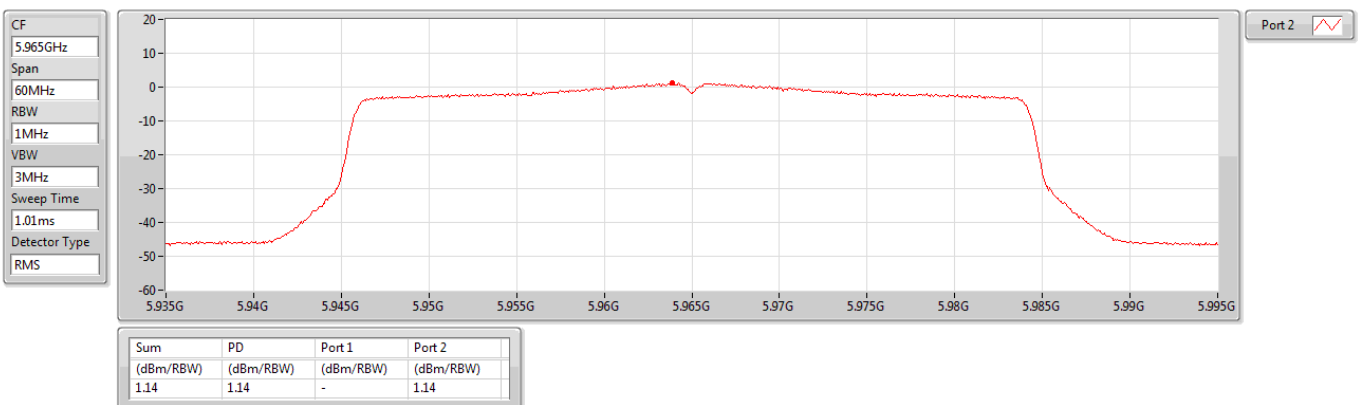
7115MHz



5.925-6.425GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

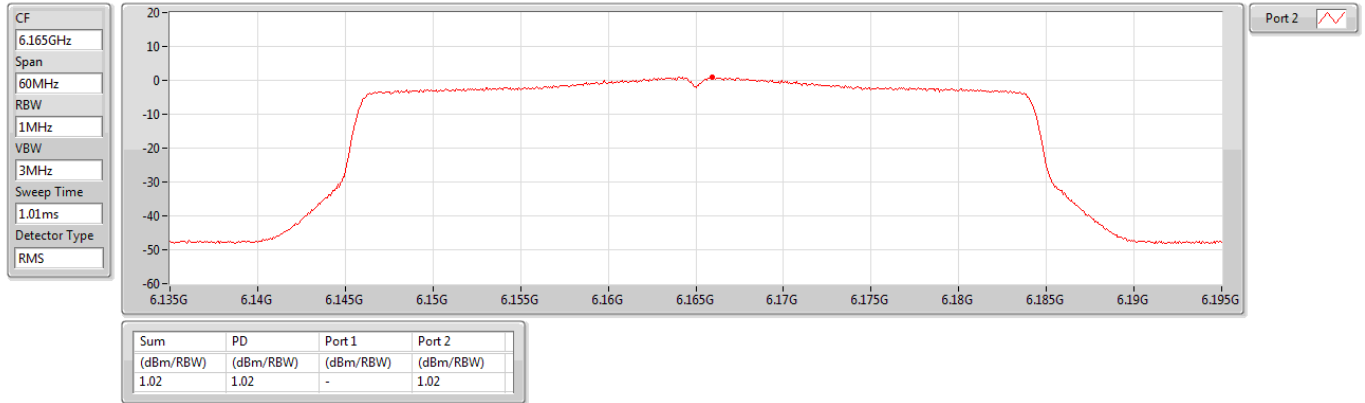
5965MHz



5.925-6.425GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

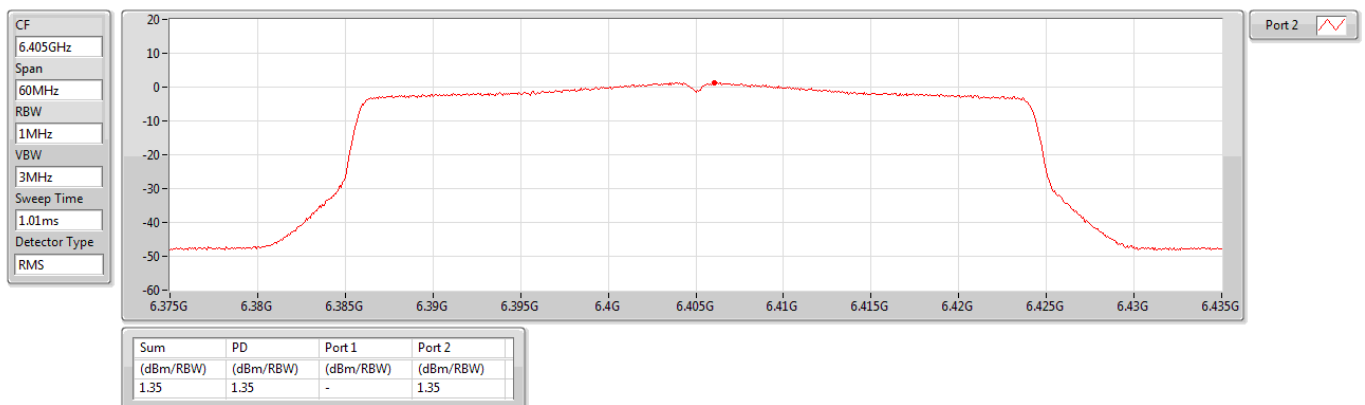
6165MHz



5.925-6.425GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

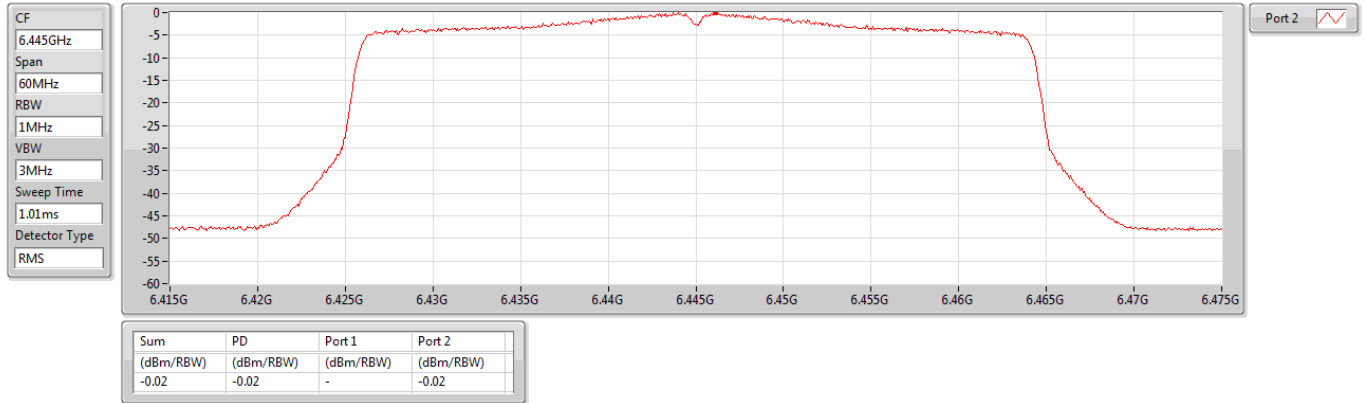
6405MHz



6.425-6.525GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

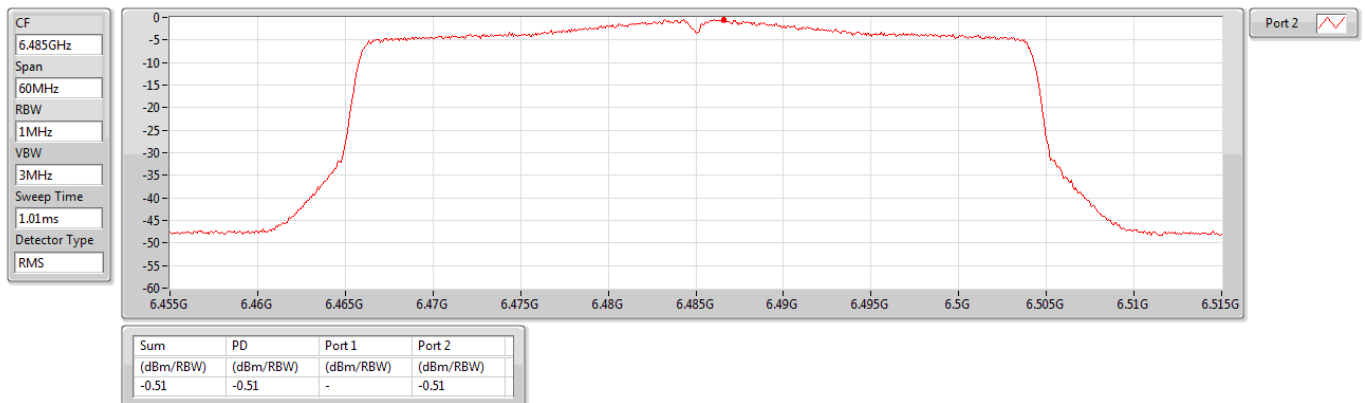
6445MHz



6.425-6.525GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

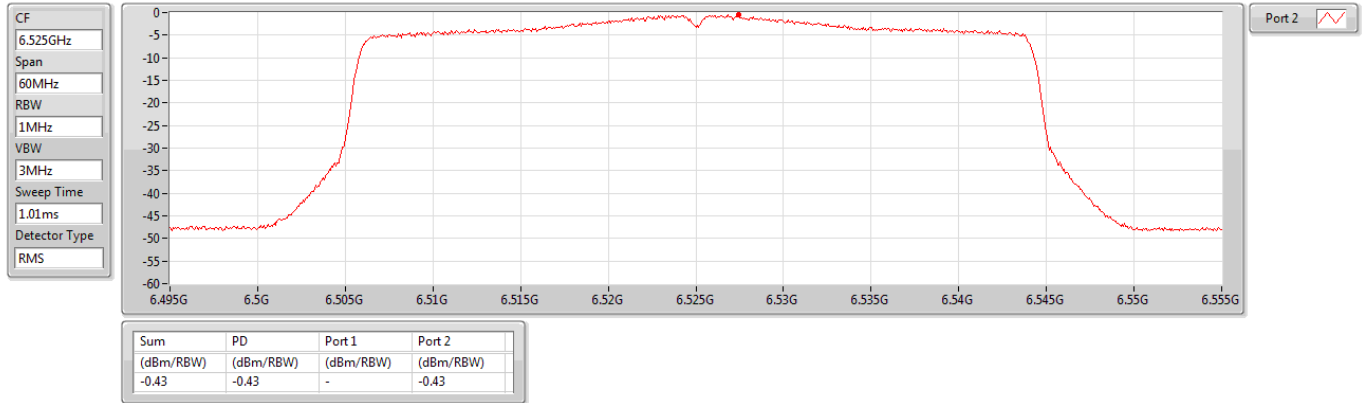
6485MHz



6.425-6.525GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

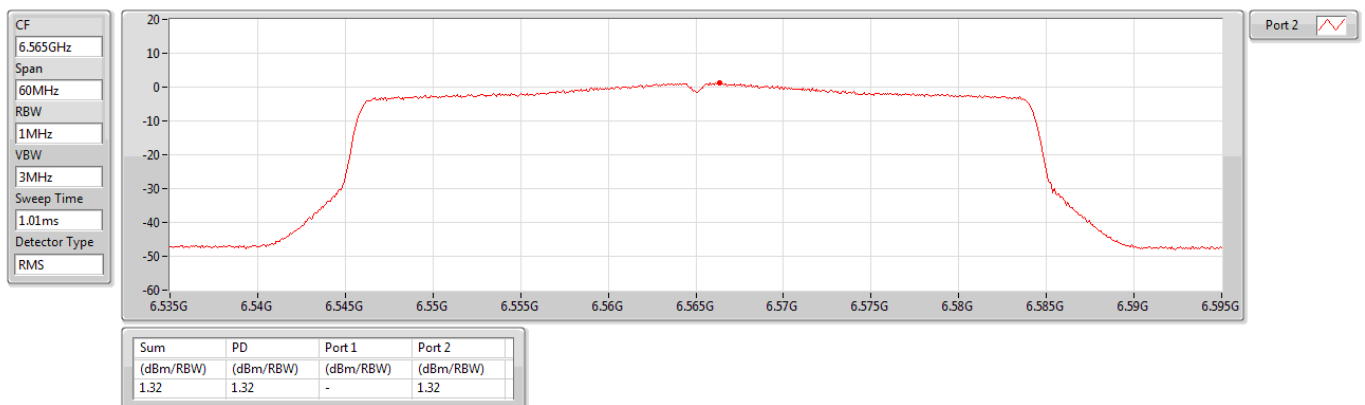
6525MHz Straddle 6.425-6.525GHz



6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

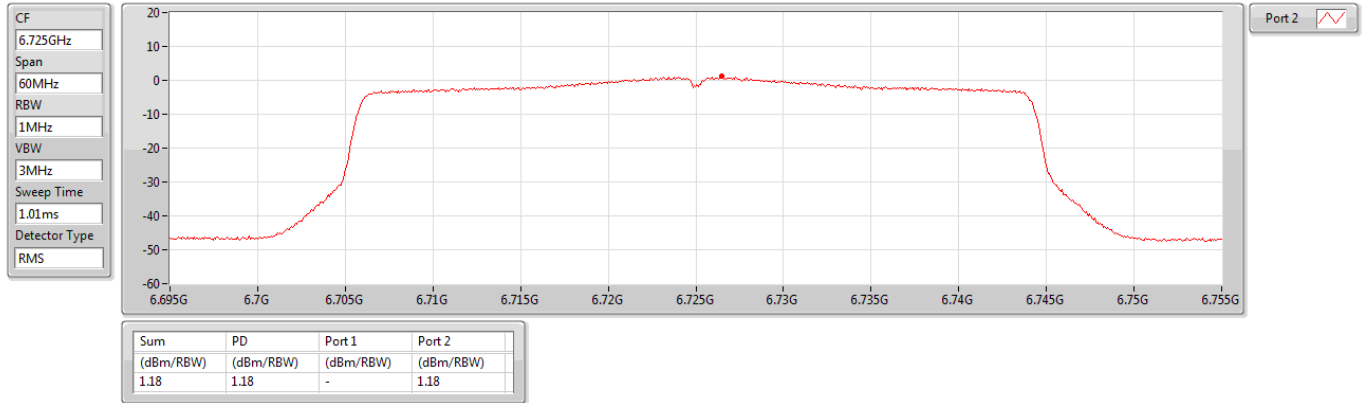
6565MHz



6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

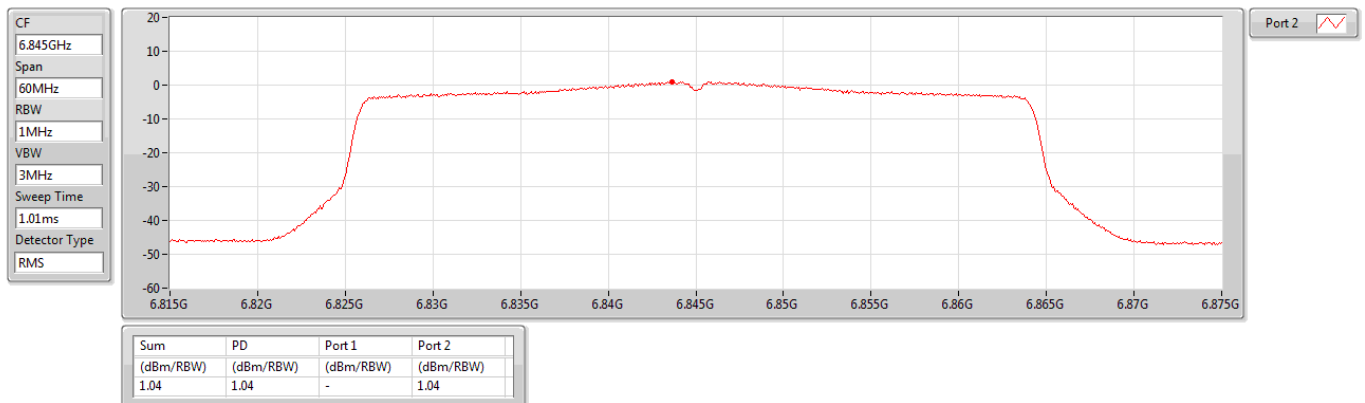
6725MHz



6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

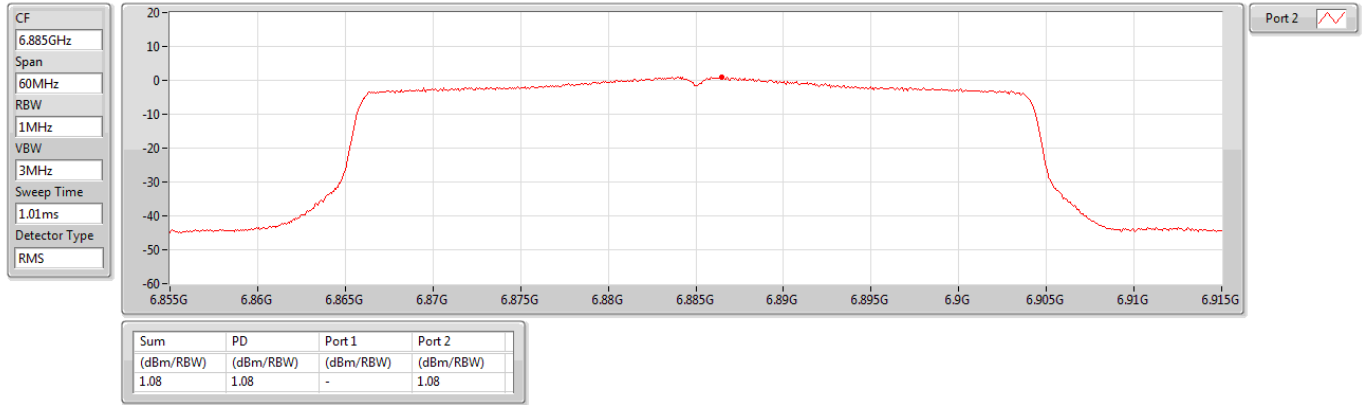
6845MHz



6.525-6.875GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

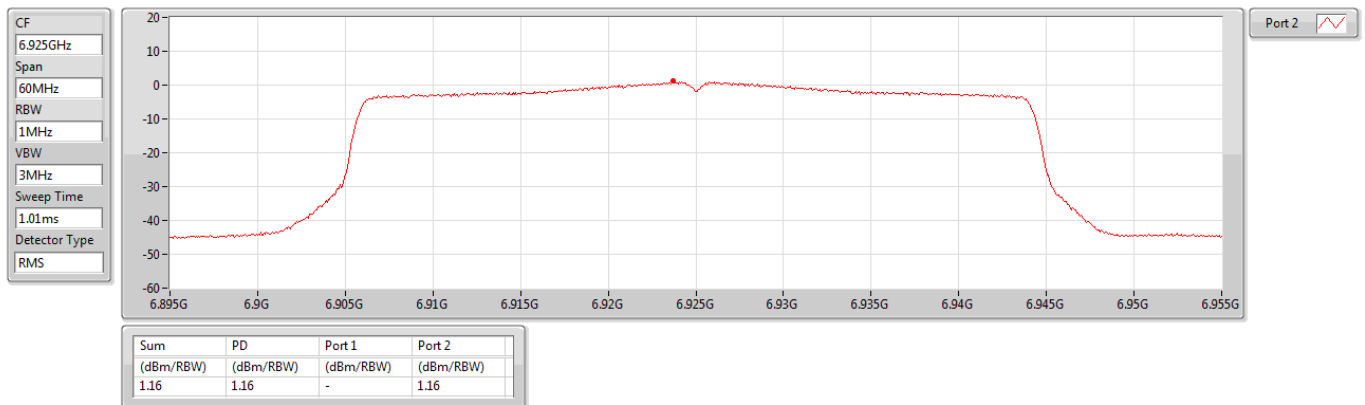
6885MHz Straddle 6.525-6.875GHz



6.875-7.125GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

6925MHz

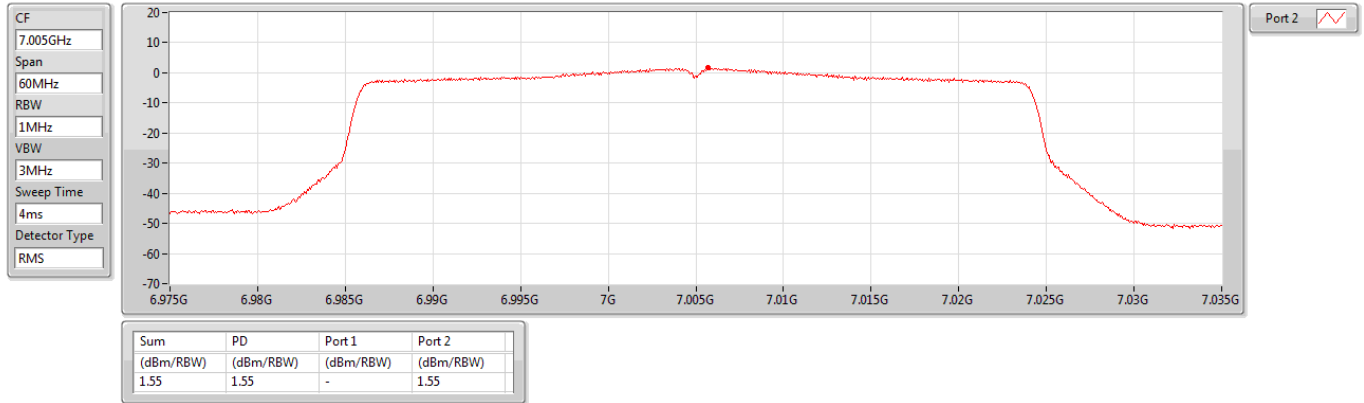




6.875-7.125GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

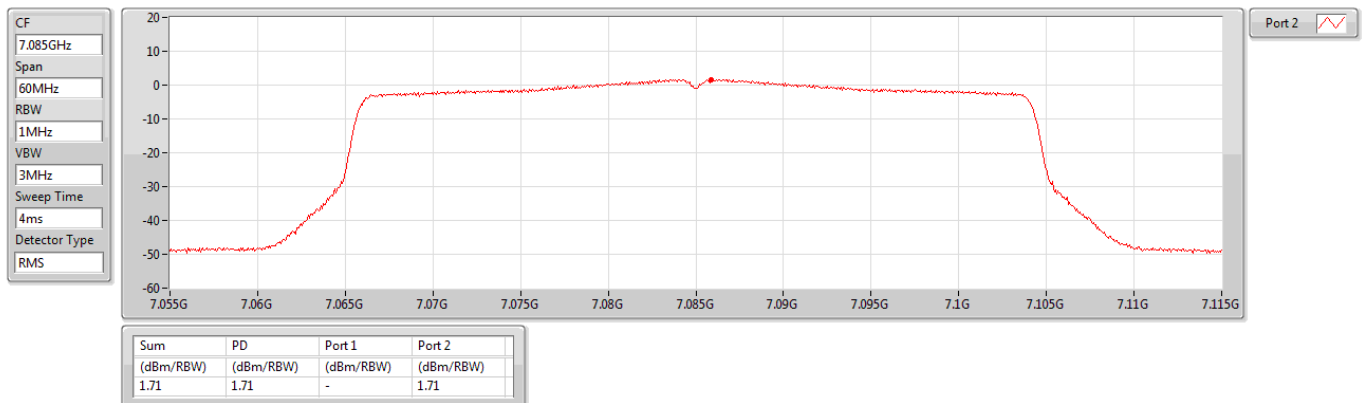
7005MHz



6.875-7.125GHz_802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

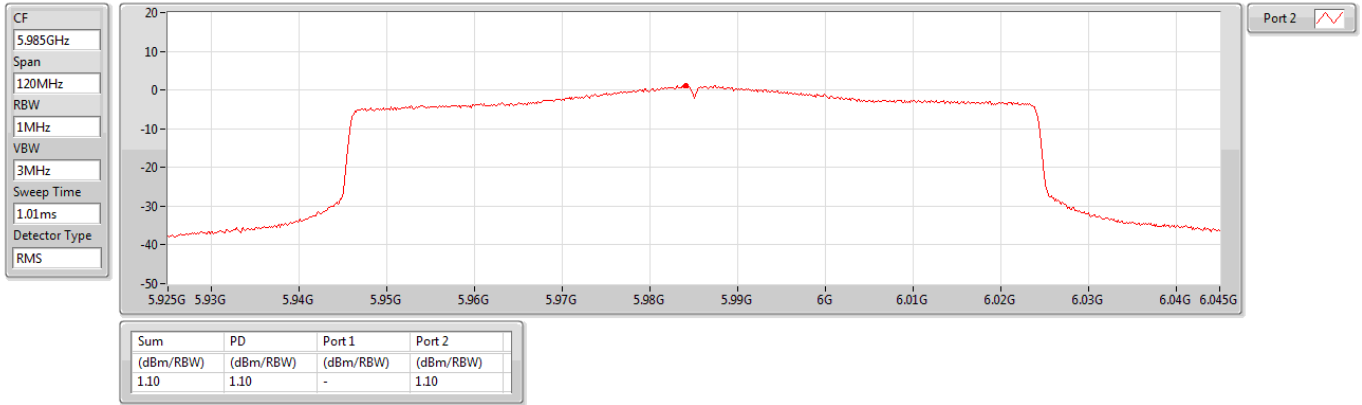
7085MHz



5.925-6.425GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

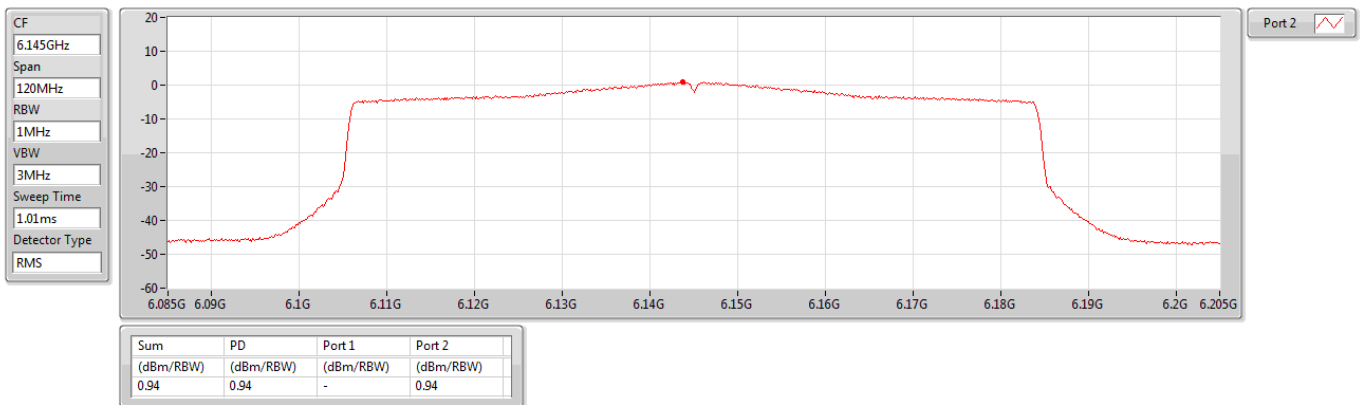
5985MHz



5.925-6.425GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

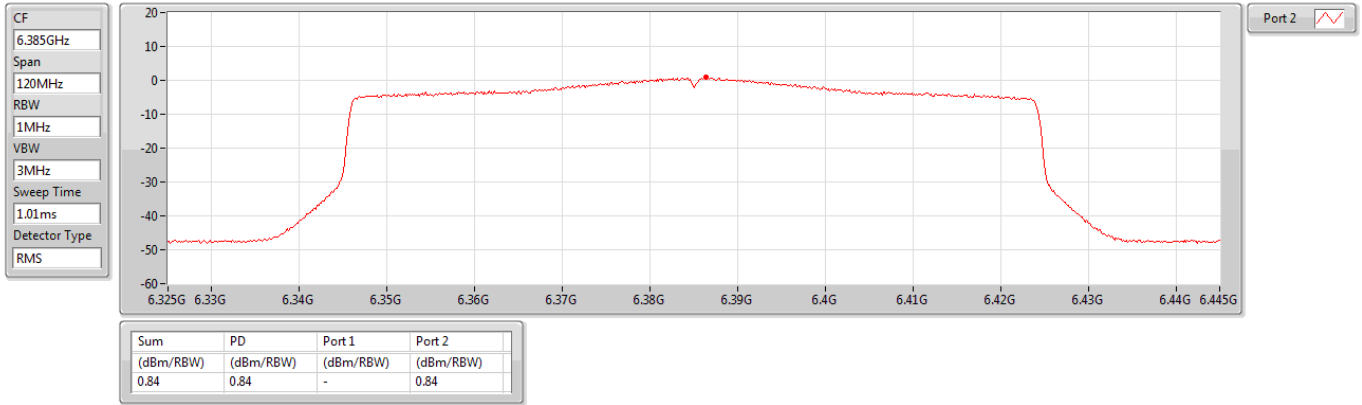
6145MHz



5.925-6.425GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

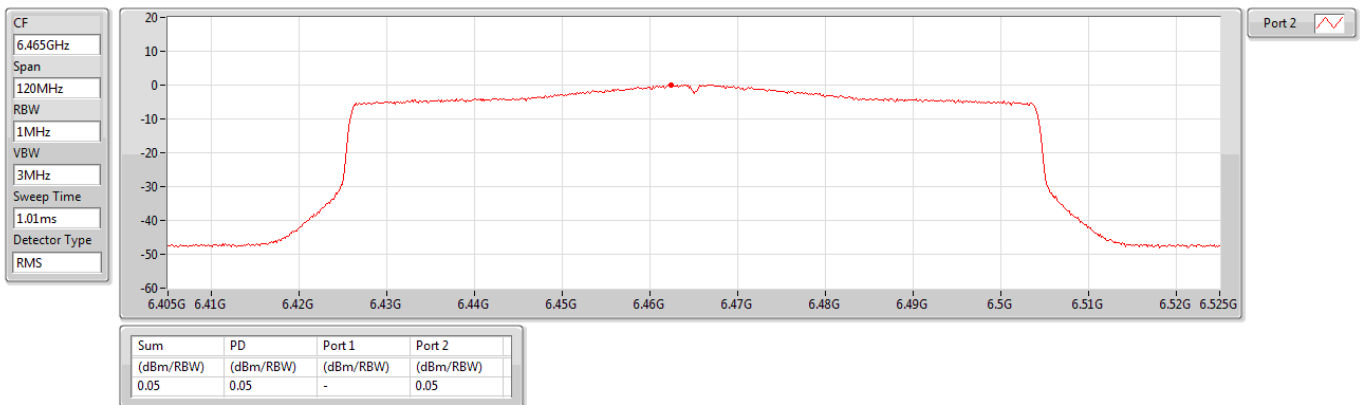
6385MHz



6.425-6.525GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

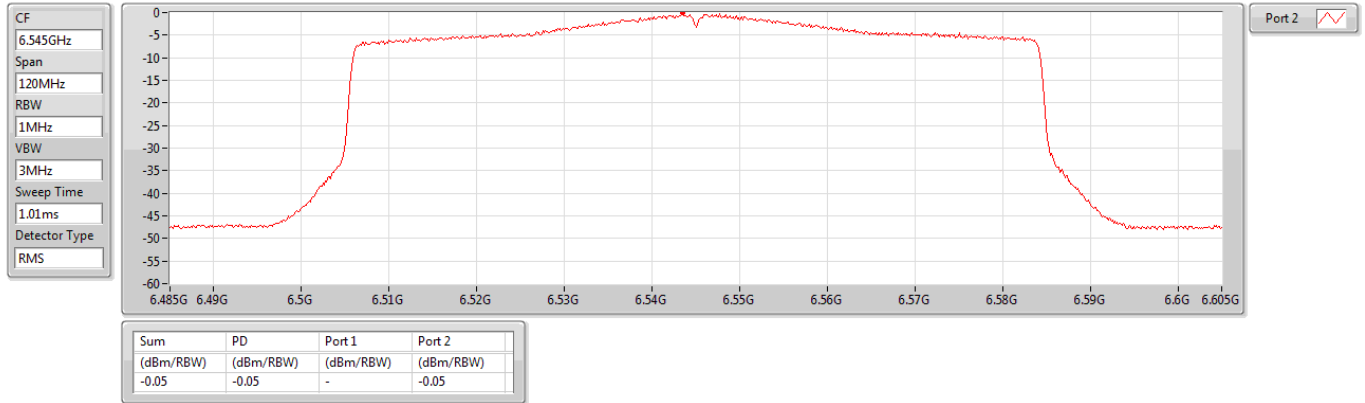
6465MHz



6.425-6.525GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

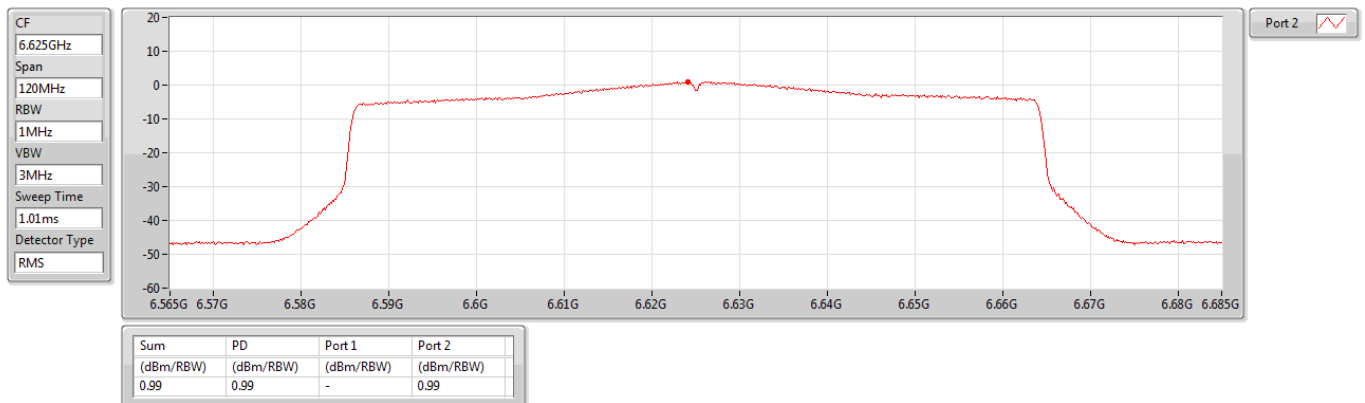
6545MHz Straddle 6.425-6.525GHz



6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

6625MHz

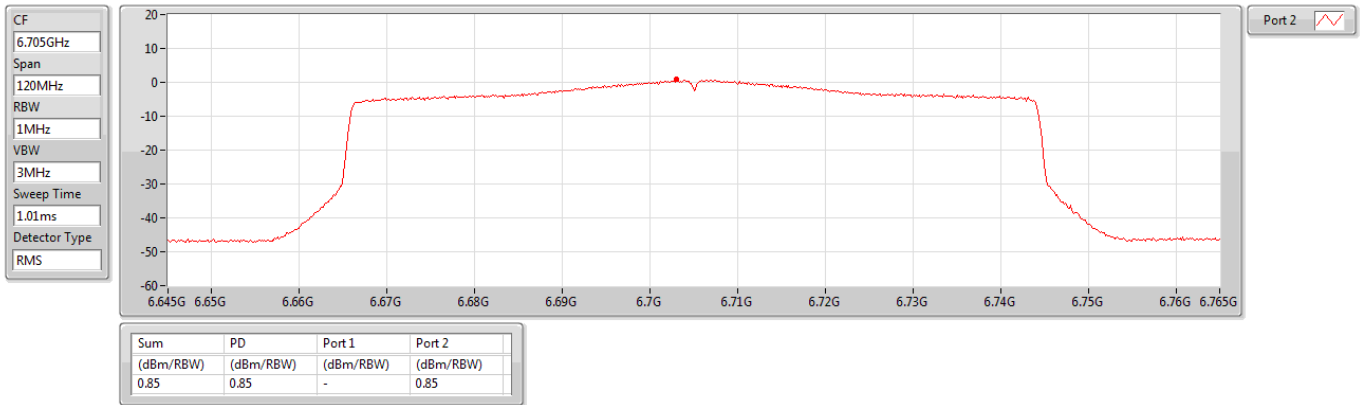




6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

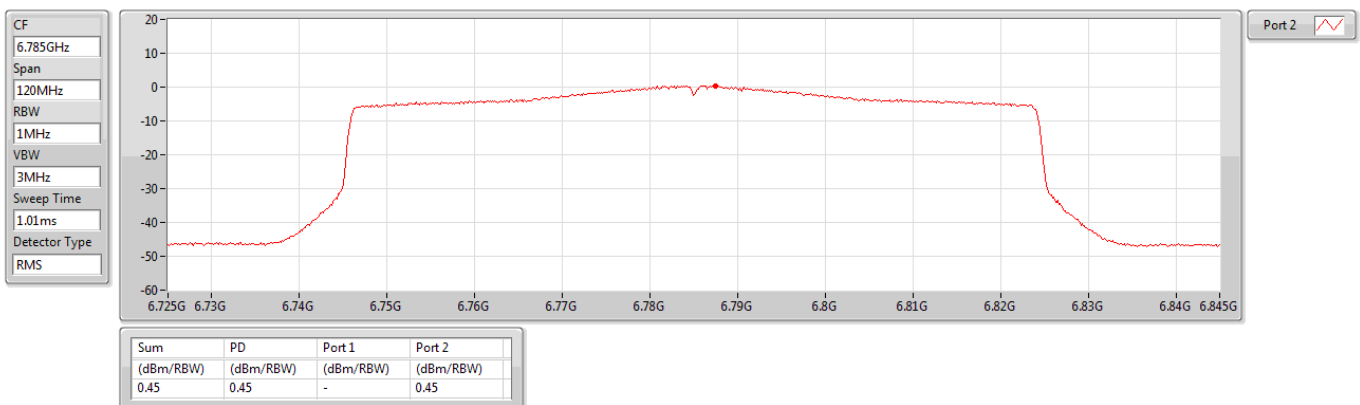
6705MHz



6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

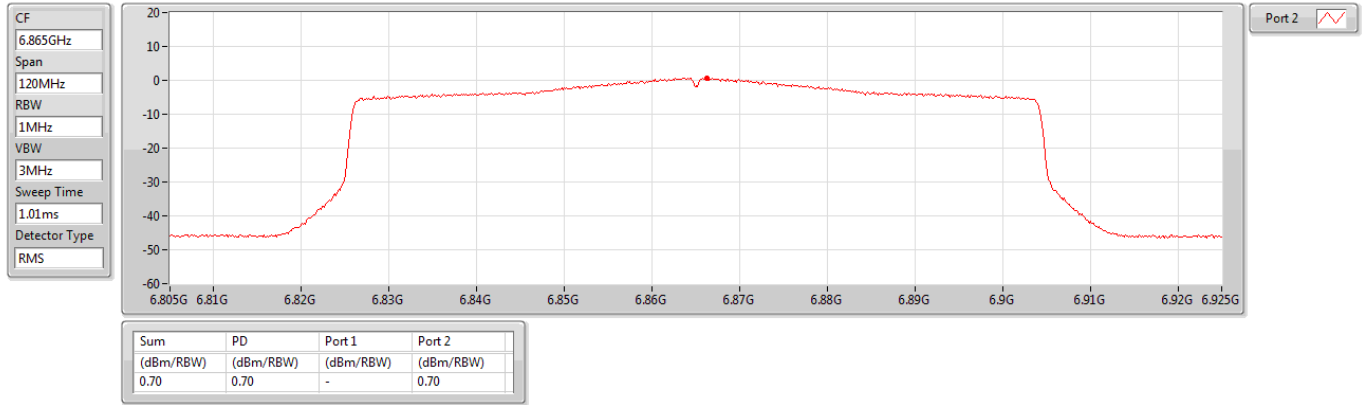
6785MHz



6.525-6.875GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

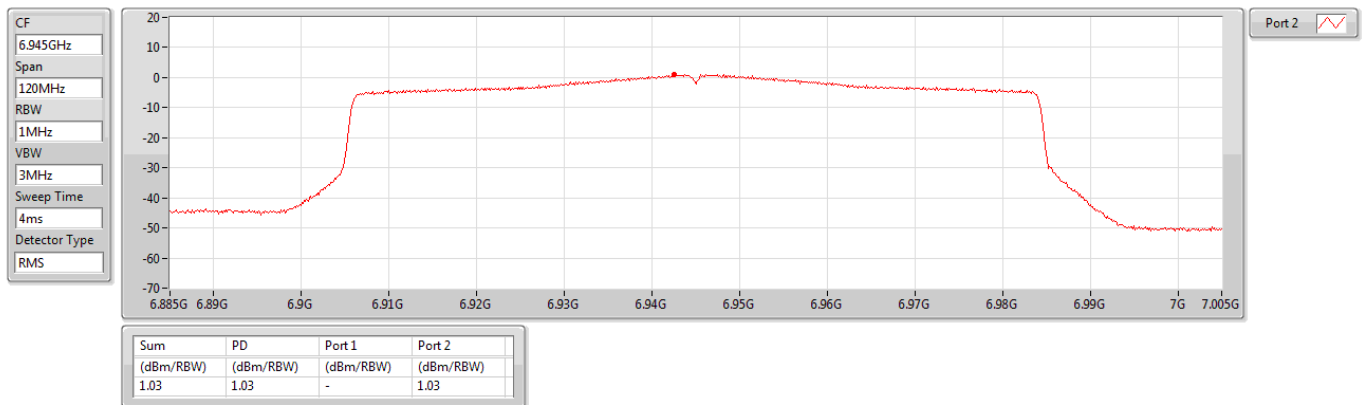
6865MHz Straddle 6.525-6.875GHz



6.875-7.125GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

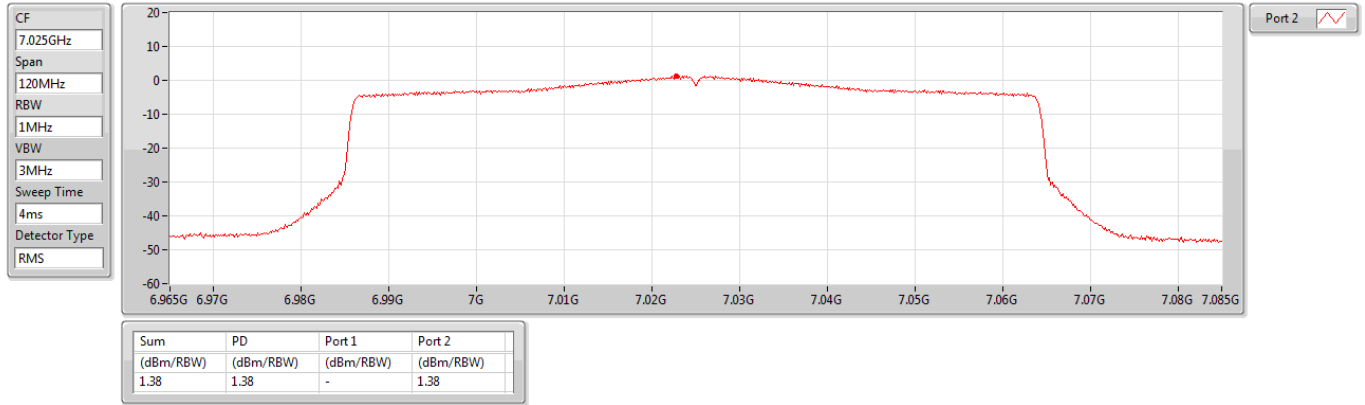
6945MHz



6.875-7.125GHz_802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

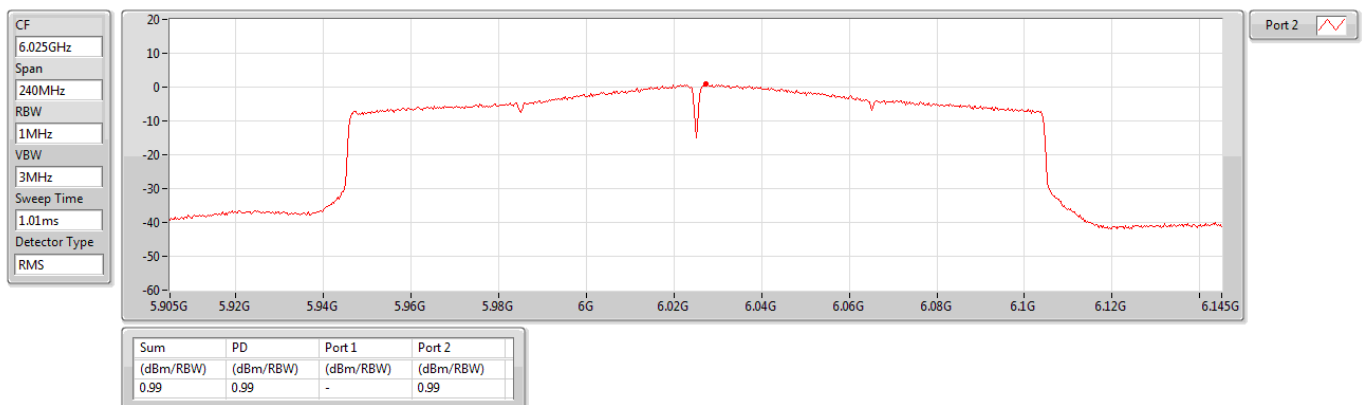
7025MHz



5.925-6.425GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

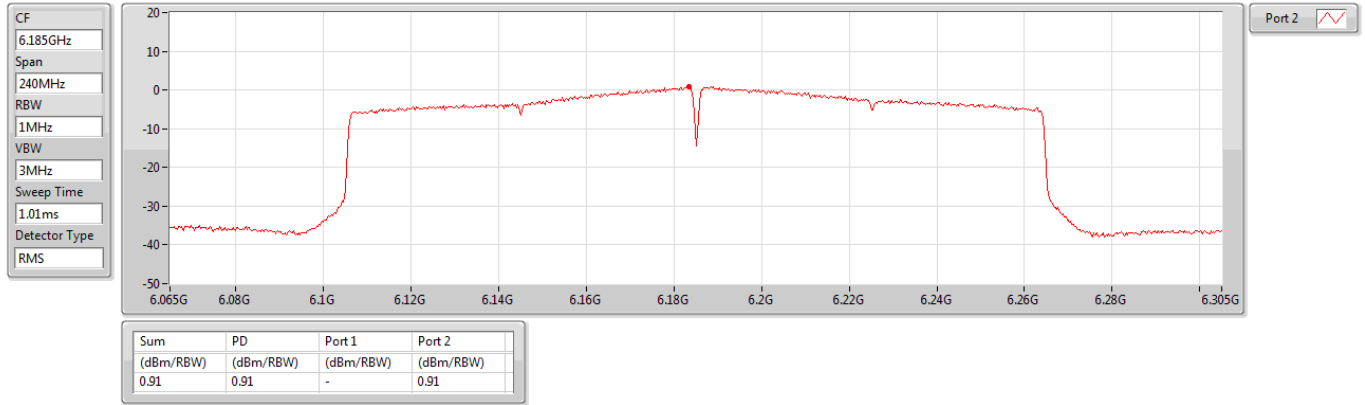
6025MHz



5.925-6.425GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

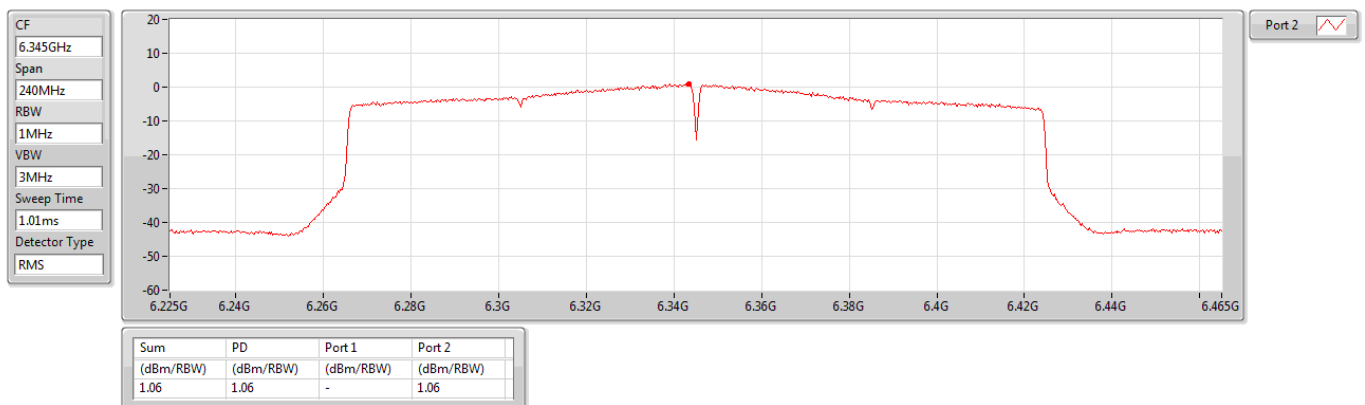
6185MHz



5.925-6.425GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

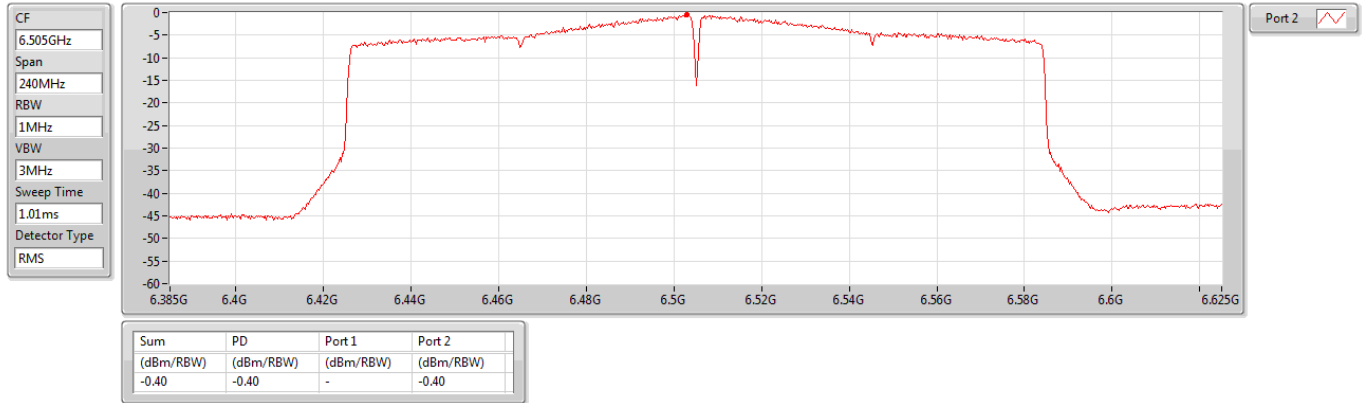
6345MHz



6.425-6.525GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

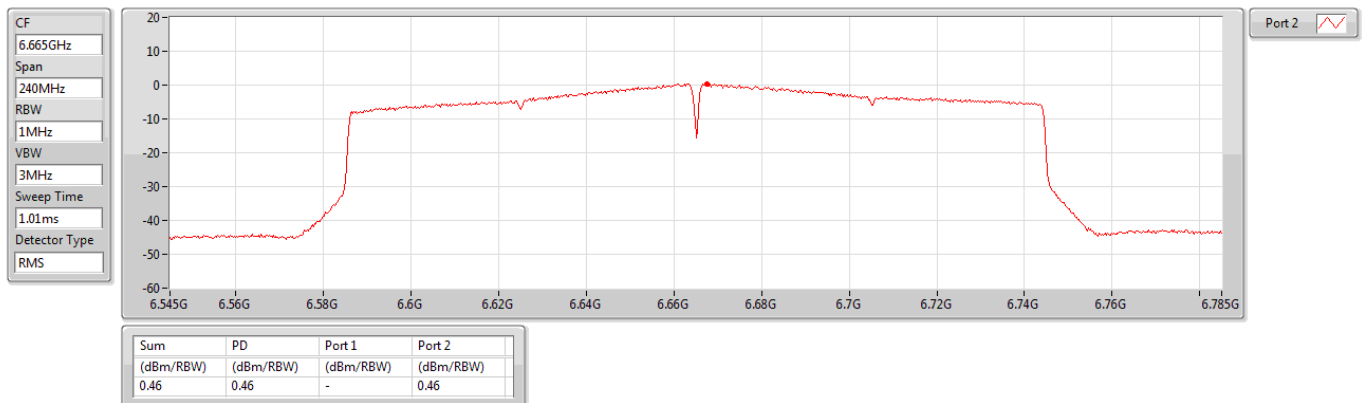
6505MHz Straddle 6.425-6.525GHz



6.525-6.875GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

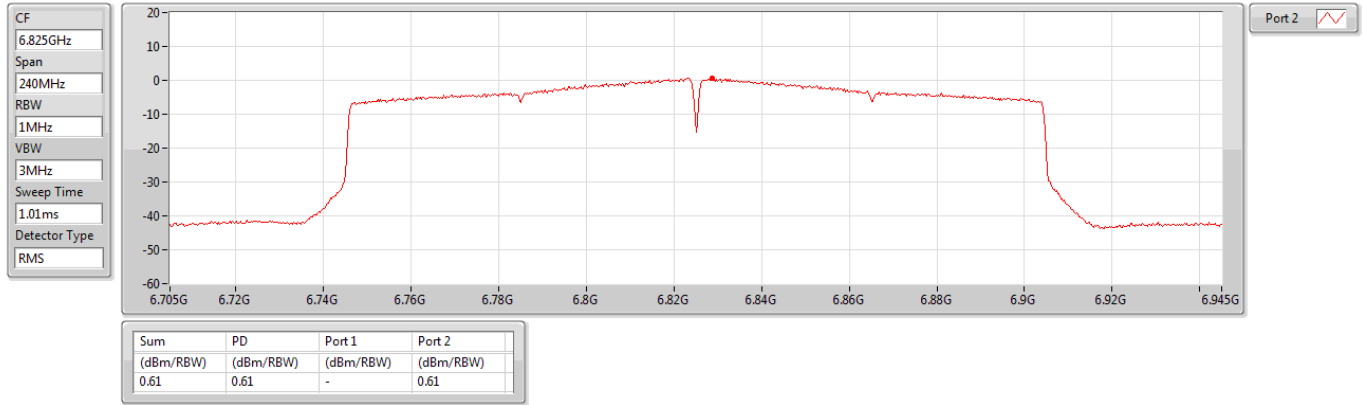
6665MHz



6.525-6.875GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

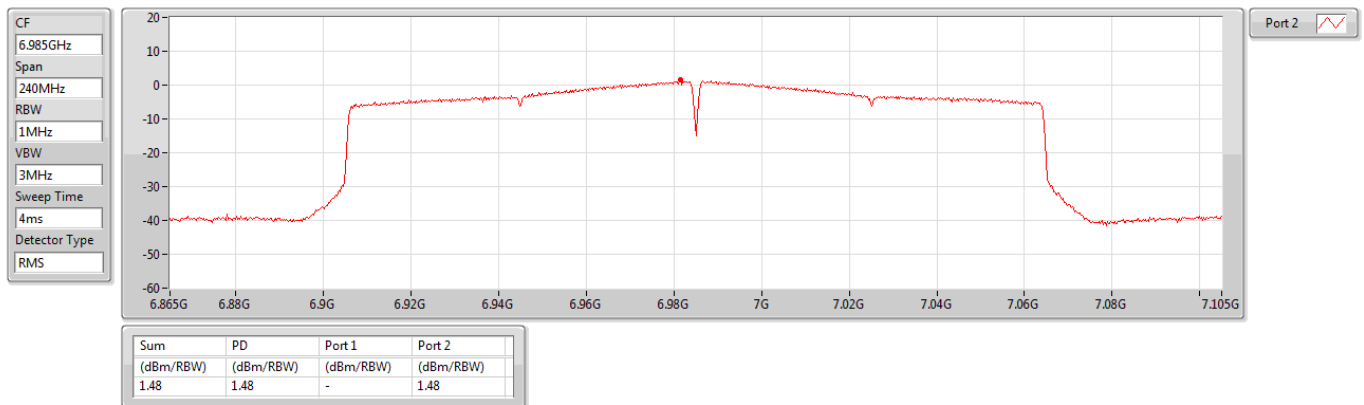
6825MHz Straddle 6.525-6.875GHz



6.875-7.125GHz_802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

6985MHz





Unwanted Emissions (Below 1GHz)

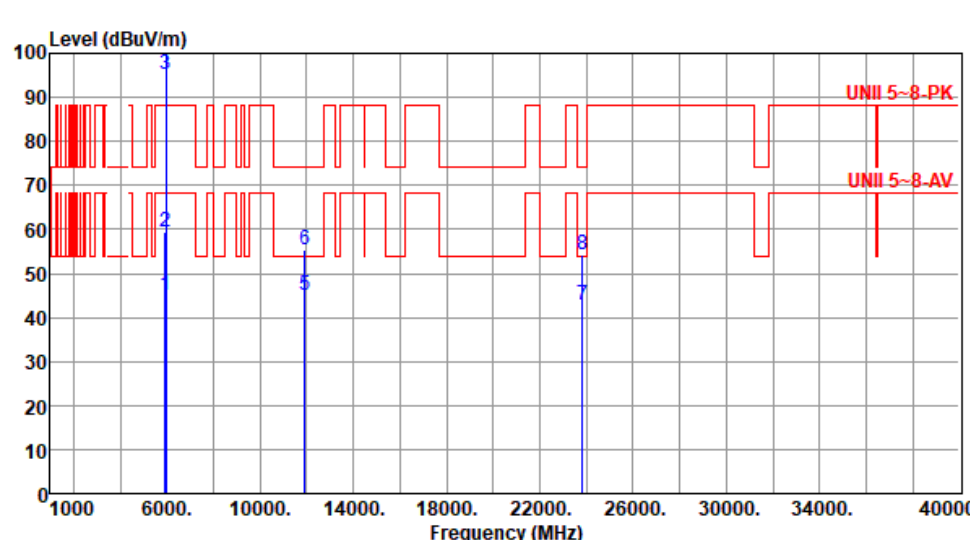
Modulation	ax HE160		Test Freq. (MHz)		6345																																																																								
Polarization	Horizontal																																																																												
Test By		:Roger Lu-		Temperature(°C):26		Humidity(%):63																																																																							
Level (dBuV/m) CLASS-B Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>111.48</td><td>34.95</td><td>43.50</td><td>-8.55</td><td>46.84</td><td>-11.89</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>124.09</td><td>37.10</td><td>43.50</td><td>-6.40</td><td>48.02</td><td>-10.92</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>166.77</td><td>32.38</td><td>43.50</td><td>-11.12</td><td>41.15</td><td>-8.77</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>374.35</td><td>32.67</td><td>46.00</td><td>-13.33</td><td>38.51</td><td>-5.84</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>499.48</td><td>32.79</td><td>46.00</td><td>-13.21</td><td>35.28</td><td>-2.49</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>781.75</td><td>35.87</td><td>46.00</td><td>-10.13</td><td>31.95</td><td>3.92</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.									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	111.48	34.95	43.50	-8.55	46.84	-11.89	Peak	---	---	2	124.09	37.10	43.50	-6.40	48.02	-10.92	Peak	---	---	3	166.77	32.38	43.50	-11.12	41.15	-8.77	Peak	---	---	4	374.35	32.67	46.00	-13.33	38.51	-5.84	Peak	---	---	5	499.48	32.79	46.00	-13.21	35.28	-2.49	Peak	---	---	6	781.75	35.87	46.00	-10.13	31.95	3.92	Peak	---	---
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Modulation	ax HE160	Test Freq. (MHz)	6345																																																																						
Polarization	Vertical																																																																								
Test By :Roger Lu- Temperature(°C):26 Humidity(%):63																																																																									
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Unwanted Emissions (Above 1GHz) for ax HE20

Modulation	ax HE20	Test Freq. (MHz)	5955																																																																																										
Polarization	Horizontal																																																																																												
Test By :Brad Wu Temperature(°C):23 Humidity(%):64																																																																																													
Level (dBUV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5925.00</td><td>45.09</td><td>68.20</td><td>-23.11</td><td>43.95</td><td>1.14</td><td>Average</td><td>190</td><td>343</td></tr><tr><td>2</td><td>5925.00</td><td>59.36</td><td>88.20</td><td>-28.84</td><td>58.22</td><td>1.14</td><td>Peak</td><td>190</td><td>343</td></tr><tr><td>3 *</td><td>5955.00</td><td>95.29</td><td></td><td></td><td>94.07</td><td>1.22</td><td>Average</td><td>190</td><td>343</td></tr><tr><td>4 *</td><td>5955.00</td><td>108.81</td><td></td><td></td><td>107.59</td><td>1.22</td><td>Peak</td><td>190</td><td>343</td></tr><tr><td>5</td><td>11910.00</td><td>45.17</td><td>54.00</td><td>-8.83</td><td>38.10</td><td>7.07</td><td>Average</td><td>140</td><td>320</td></tr><tr><td>6</td><td>11910.00</td><td>55.28</td><td>74.00</td><td>-18.72</td><td>48.21</td><td>7.07</td><td>Peak</td><td>140</td><td>320</td></tr><tr><td>7</td><td>23820.00</td><td>42.76</td><td>54.00</td><td>-11.24</td><td>35.13</td><td>7.63</td><td>Average</td><td>100</td><td>224</td></tr><tr><td>8</td><td>23820.00</td><td>54.13</td><td>74.00</td><td>-19.87</td><td>46.50</td><td>7.63</td><td>Peak</td><td>100</td><td>224</td></tr></tbody></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3:"*" is Peak / Average value of fundamental frequency					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	5925.00	45.09	68.20	-23.11	43.95	1.14	Average	190	343	2	5925.00	59.36	88.20	-28.84	58.22	1.14	Peak	190	343	3 *	5955.00	95.29			94.07	1.22	Average	190	343	4 *	5955.00	108.81			107.59	1.22	Peak	190	343	5	11910.00	45.17	54.00	-8.83	38.10	7.07	Average	140	320	6	11910.00	55.28	74.00	-18.72	48.21	7.07	Peak	140	320	7	23820.00	42.76	54.00	-11.24	35.13	7.63	Average	100	224	8	23820.00	54.13	74.00	-19.87	46.50	7.63	Peak	100	224
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Modulation	ax HE20	Test Freq. (MHz)	5955
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) <			



Modulation		ax HE20		Test Freq. (MHz)		6175																																																																																																																												
Polarization		Horizontal																																																																																																																																
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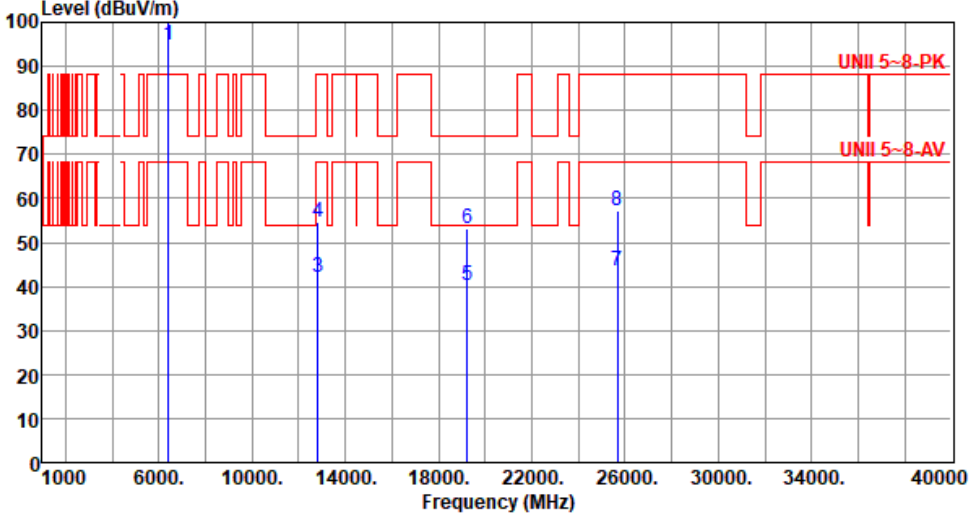


Modulation		ax HE20		Test Freq. (MHz)		6175																																																																																																																													
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Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64																																																																																																																													
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8		24700.00	55.64	88.20	-32.56	47.02	8.62	Peak	100	162																																																																																																																									
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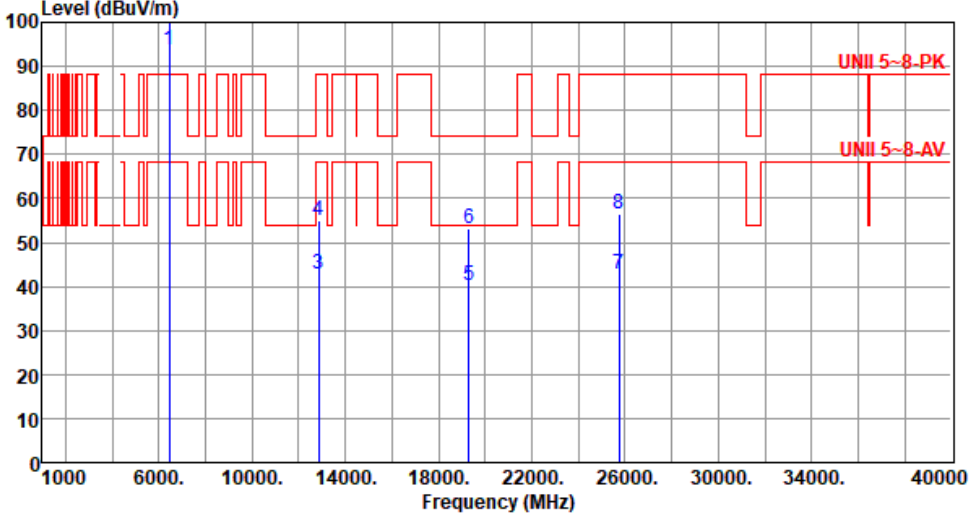


Modulation		ax HE20		Test Freq. (MHz)		6415																																																																																																				
Polarization		Horizontal																																																																																																								
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64																																																																																																				
Level (dBuV/m) <table><tr><th></th><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>*</td><td>6415.00</td><td>94.38</td><td></td><td></td><td>91.52</td><td>2.86</td><td>Average</td><td>185</td><td>346</td></tr><tr><td>2</td><td>*</td><td>6415.00</td><td>108.02</td><td></td><td></td><td>105.16</td><td>2.86</td><td>Peak</td><td>185</td><td>346</td></tr><tr><td>3</td><td></td><td>12830.00</td><td>42.90</td><td>68.20</td><td>-25.30</td><td>35.90</td><td>7.00</td><td>Average</td><td>138</td><td>311</td></tr><tr><td>4</td><td></td><td>12830.00</td><td>54.92</td><td>88.20</td><td>-33.28</td><td>47.92</td><td>7.00</td><td>Peak</td><td>138</td><td>311</td></tr><tr><td>5</td><td></td><td>19245.00</td><td>40.63</td><td>54.00</td><td>-13.37</td><td>38.68</td><td>1.95</td><td>Average</td><td>100</td><td>154</td></tr><tr><td>6</td><td></td><td>19245.00</td><td>53.53</td><td>74.00</td><td>-20.47</td><td>51.58</td><td>1.95</td><td>Peak</td><td>100</td><td>154</td></tr><tr><td>7</td><td></td><td>25660.00</td><td>43.61</td><td>68.20</td><td>-24.59</td><td>35.20</td><td>8.41</td><td>Average</td><td>100</td><td>182</td></tr><tr><td>8</td><td></td><td>25660.00</td><td>56.63</td><td>88.20</td><td>-31.57</td><td>48.22</td><td>8.41</td><td>Peak</td><td>100</td><td>182</td></tr></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency										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	*	6415.00	94.38			91.52	2.86	Average	185	346	2	*	6415.00	108.02			105.16	2.86	Peak	185	346	3		12830.00	42.90	68.20	-25.30	35.90	7.00	Average	138	311	4		12830.00	54.92	88.20	-33.28	47.92	7.00	Peak	138	311	5		19245.00	40.63	54.00	-13.37	38.68	1.95	Average	100	154	6		19245.00	53.53	74.00	-20.47	51.58	1.95	Peak	100	154	7		25660.00	43.61	68.20	-24.59	35.20	8.41	Average	100	182	8		25660.00	56.63	88.20	-31.57	48.22	8.41	Peak	100	182
		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		12830.00	42.90	68.20	-25.30	35.90	7.00	Average	138	311																																																																																																
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Polarization	Vertical																																																																																																					
Test By :Brad Wu Temperature(°C):23 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	ax HE20	Test Freq. (MHz)	6435																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Brad Wu Temperature(°C):23 Humidity(%):64																																																																																																							
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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5		19305.00	40.22	54.00	-13.78	38.26	Average	100	318																																																																																														
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7		25740.00	42.90	68.20	-25.30	34.61	Average	100	255																																																																																														
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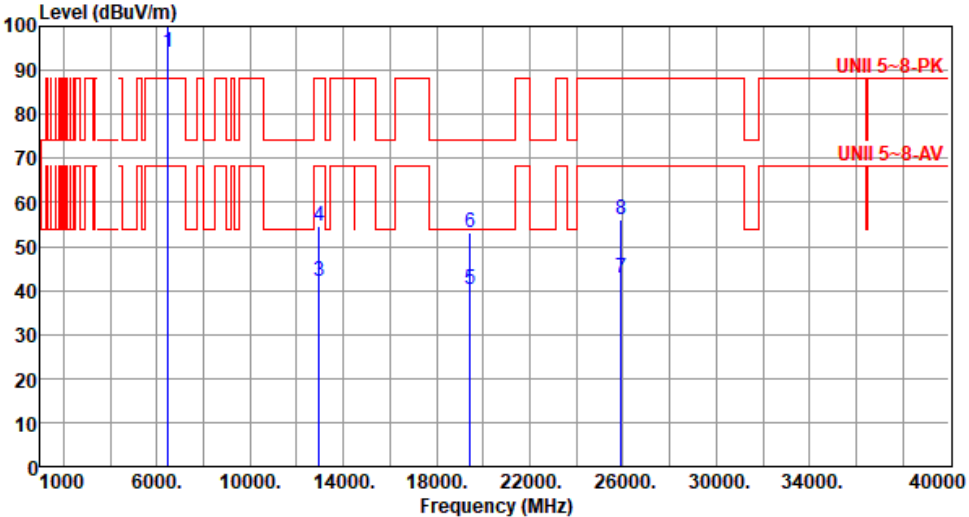


Modulation	ax HE20		Test Freq. (MHz)		6435																																																																																																																													
Polarization	Vertical																																																																																																																																	
Test By :Brad Wu Temperature(°C):23 Humidity(%):64																																																																																																																																		
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><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></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>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>*</td><td>6435.00</td><td>94.00</td><td></td><td></td><td>91.01</td><td>2.99</td><td>Average</td><td>112</td><td>193</td></tr><tr><td>2</td><td>*</td><td>6435.00</td><td>107.32</td><td></td><td></td><td>104.33</td><td>2.99</td><td>Peak</td><td>112</td><td>193</td></tr><tr><td>3</td><td></td><td>12870.00</td><td>41.93</td><td>68.20</td><td>-26.27</td><td>34.94</td><td>6.99</td><td>Average</td><td>100</td><td>162</td></tr><tr><td>4</td><td></td><td>12870.00</td><td>54.29</td><td>88.20</td><td>-33.91</td><td>47.30</td><td>6.99</td><td>Peak</td><td>100</td><td>162</td></tr><tr><td>5</td><td></td><td>19305.00</td><td>40.48</td><td>54.00</td><td>-13.52</td><td>38.52</td><td>1.96</td><td>Average</td><td>100</td><td>55</td></tr><tr><td>6</td><td></td><td>19305.00</td><td>52.90</td><td>74.00</td><td>-21.10</td><td>50.94</td><td>1.96</td><td>Peak</td><td>100</td><td>55</td></tr><tr><td>7</td><td></td><td>25740.00</td><td>43.03</td><td>68.20</td><td>-25.17</td><td>34.74</td><td>8.29</td><td>Average</td><td>100</td><td>169</td></tr><tr><td>8</td><td></td><td>25740.00</td><td>56.72</td><td>88.20</td><td>-31.48</td><td>48.43</td><td>8.29</td><td>Peak</td><td>100</td><td>169</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	*	6435.00	94.00			91.01	2.99	Average	112	193	2	*	6435.00	107.32			104.33	2.99	Peak	112	193	3		12870.00	41.93	68.20	-26.27	34.94	6.99	Average	100	162	4		12870.00	54.29	88.20	-33.91	47.30	6.99	Peak	100	162	5		19305.00	40.48	54.00	-13.52	38.52	1.96	Average	100	55	6		19305.00	52.90	74.00	-21.10	50.94	1.96	Peak	100	55	7		25740.00	43.03	68.20	-25.17	34.74	8.29	Average	100	169	8		25740.00	56.72	88.20	-31.48	48.43	8.29	Peak	100	169
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Modulation		ax HE20		Test Freq. (MHz)		6475																																																																																																						
Polarization		Horizontal																																																																																																										
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64																																																																																																						
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><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>*</td><td>6475.00</td><td>93.51</td><td></td><td></td><td>90.31</td><td>3.20</td><td>Average</td><td>189</td><td>346</td></tr><tr><td>2</td><td>*</td><td>6475.00</td><td>107.24</td><td></td><td></td><td>104.04</td><td>3.20</td><td>Peak</td><td>189</td><td>346</td></tr><tr><td>3</td><td></td><td>12950.00</td><td>42.11</td><td>68.20</td><td>-26.09</td><td>35.12</td><td>6.99</td><td>Average</td><td>133</td><td>311</td></tr><tr><td>4</td><td></td><td>12950.00</td><td>55.16</td><td>88.20</td><td>-33.04</td><td>48.17</td><td>6.99</td><td>Peak</td><td>133</td><td>311</td></tr><tr><td>5</td><td></td><td>19425.00</td><td>40.56</td><td>54.00</td><td>-13.44</td><td>38.59</td><td>1.97</td><td>Average</td><td>100</td><td>144</td></tr><tr><td>6</td><td></td><td>19425.00</td><td>53.36</td><td>74.00</td><td>-20.64</td><td>51.39</td><td>1.97</td><td>Peak</td><td>100</td><td>144</td></tr><tr><td>7</td><td></td><td>25900.00</td><td>42.84</td><td>68.20</td><td>-25.36</td><td>34.47</td><td>8.37</td><td>Average</td><td>100</td><td>128</td></tr><tr><td>8</td><td></td><td>25900.00</td><td>55.58</td><td>88.20</td><td>-32.62</td><td>47.21</td><td>8.37</td><td>Peak</td><td>100</td><td>128</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	*	6475.00	93.51			90.31	3.20	Average	189	346	2	*	6475.00	107.24			104.04	3.20	Peak	189	346	3		12950.00	42.11	68.20	-26.09	35.12	6.99	Average	133	311	4		12950.00	55.16	88.20	-33.04	48.17	6.99	Peak	133	311	5		19425.00	40.56	54.00	-13.44	38.59	1.97	Average	100	144	6		19425.00	53.36	74.00	-20.64	51.39	1.97	Peak	100	144	7		25900.00	42.84	68.20	-25.36	34.47	8.37	Average	100	128	8		25900.00	55.58	88.20	-32.62	47.21	8.37	Peak	100	128
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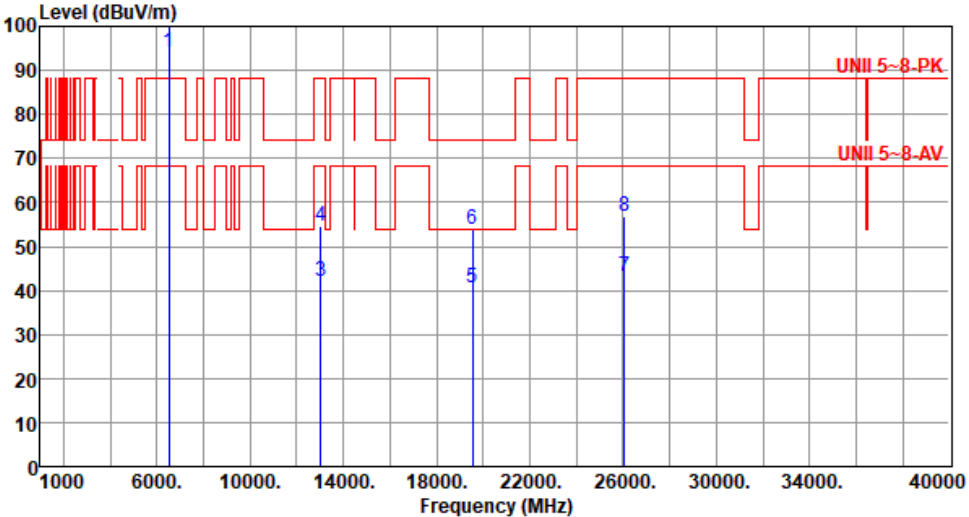


Modulation		ax HE20		Test Freq. (MHz)		6475																																																																																																															
Polarization		Vertical																																																																																																																			
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64																																																																																																															
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																												
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Modulation		ax HE20		Test Freq. (MHz)		6515			
Polarization		Horizontal							
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64			
Level (dBuV/m)									



Modulation		ax HE20		Test Freq. (MHz)		6515																																																																																																						
Polarization		Vertical																																																																																																										
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		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																																		
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3		13030.00	42.11	68.20	-26.09	35.12	6.99	Average	100	138																																																																																																		
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5		19545.00	40.66	54.00	-13.34	38.61	2.05	Average	100	178																																																																																																		
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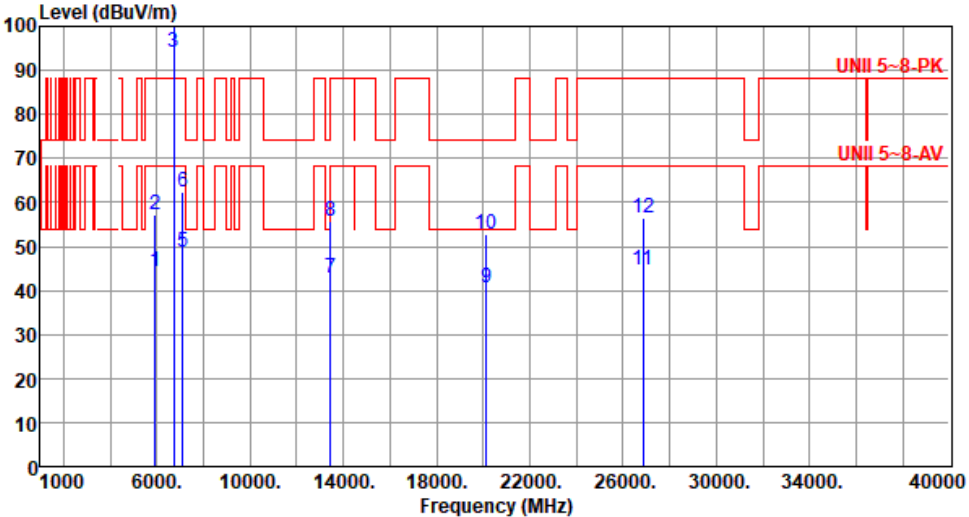
Modulation		ax HE20		Test Freq. (MHz)		6535			
Polarization		Horizontal							
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64			
Level (dBuV/m)									



Modulation	ax HE20		Test Freq. (MHz)		6535					
Polarization	Vertical									
Test By :Brad Wu Temperature(°C):23 Humidity(%):64										
Level (dBuV/m) Frequency (MHz)										
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level			reading			High	Table
			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	*	6535.00	94.19			90.68	3.51	Average	100	194
2	*	6535.00	108.06			104.55	3.51	Peak	100	194
3		13070.00	42.36	68.20	-25.84	35.40	6.96	Average	100	188
4		13070.00	55.03	88.20	-33.17	48.07	6.96	Peak	100	188
5		19605.00	40.43	54.00	-13.57	38.30	2.13	Average	100	73
6		19605.00	53.35	74.00	-20.65	51.22	2.13	Peak	100	73
7		26140.00	43.63	68.20	-24.57	34.94	8.69	Average	100	45
8		26140.00	57.04	88.20	-31.16	48.35	8.69	Peak	100	45

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)		6715				
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):23 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	5925.00	44.25	68.20	-23.95	43.11	1.14	Average	204	343
2	5925.00	57.38	88.20	-30.82	56.24	1.14	Peak	204	343
3 *	6715.00	94.22			90.91	3.31	Average	204	343
4 *	6715.00	108.13			104.82	3.31	Peak	204	343
5	7125.00	48.56	68.20	-19.64	43.29	5.27	Average	204	343
6	7125.00	62.19	88.20	-26.01	56.92	5.27	Peak	204	343
7	13430.00	42.67	68.20	-25.53	35.24	7.43	Average	100	15
8	13430.00	55.55	88.20	-32.65	48.12	7.43	Peak	100	15
9	20145.00	40.76	54.00	-13.24	38.05	2.71	Average	100	174
10	20145.00	52.70	74.00	-21.30	49.99	2.71	Peak	100	174
11	26860.00	44.66	68.20	-23.54	35.29	9.37	Average	100	56
12	26860.00	56.40	88.20	-31.80	47.03	9.37	Peak	100	56

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).
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Modulation	ax HE20	Test Freq. (MHz)	6715																																																																																																																																		
Polarization	Vertical																																																																																																																																				
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Modulation		ax HE20		Test Freq. (MHz)		6855																																																																																																																										
Polarization		Horizontal																																																																																																																														
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64																																																																																																																										
Level (dBuV/m) UNII 5~8-PK UNII 5~8-AV Frequency (MHz) <table><tr><th></th><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></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>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>*</td><td>6855.00</td><td>96.35</td><td></td><td></td><td>92.43</td><td>3.92</td><td>Average</td><td>204</td><td>342</td></tr><tr><td>2</td><td>*</td><td>6855.00</td><td>110.20</td><td></td><td></td><td>106.28</td><td>3.92</td><td>Peak</td><td>204</td><td>342</td></tr><tr><td>3</td><td></td><td>13710.00</td><td>44.05</td><td>68.20</td><td>-24.15</td><td>36.78</td><td>7.27</td><td>Average</td><td>100</td><td>28</td></tr><tr><td>4</td><td></td><td>13710.00</td><td>56.31</td><td>88.20</td><td>-31.89</td><td>49.04</td><td>7.27</td><td>Peak</td><td>100</td><td>28</td></tr><tr><td>5</td><td></td><td>20565.00</td><td>39.94</td><td>54.00</td><td>-14.06</td><td>36.28</td><td>3.66</td><td>Average</td><td>100</td><td>164</td></tr><tr><td>6</td><td></td><td>20565.00</td><td>53.88</td><td>74.00</td><td>-20.12</td><td>50.22</td><td>3.66</td><td>Peak</td><td>100</td><td>164</td></tr><tr><td>7</td><td></td><td>27420.00</td><td>45.06</td><td>68.20</td><td>-23.14</td><td>35.59</td><td>9.47</td><td>Average</td><td>100</td><td>194</td></tr><tr><td>8</td><td></td><td>27420.00</td><td>56.57</td><td>88.20</td><td>-31.63</td><td>47.10</td><td>9.47</td><td>Peak</td><td>100</td><td>194</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	*	6855.00	96.35			92.43	3.92	Average	204	342	2	*	6855.00	110.20			106.28	3.92	Peak	204	342	3		13710.00	44.05	68.20	-24.15	36.78	7.27	Average	100	28	4		13710.00	56.31	88.20	-31.89	49.04	7.27	Peak	100	28	5		20565.00	39.94	54.00	-14.06	36.28	3.66	Average	100	164	6		20565.00	53.88	74.00	-20.12	50.22	3.66	Peak	100	164	7		27420.00	45.06	68.20	-23.14	35.59	9.47	Average	100	194	8		27420.00	56.57	88.20	-31.63	47.10	9.47	Peak	100	194
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Modulation		ax HE20		Test Freq. (MHz)		6855	
Polarization		Vertical					
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64	
Level (dBuV/m)							



Modulation		ax HE20		Test Freq. (MHz)		6875																																																																																																						
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Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64																																																																																																						
Level (dBUV/m) <table><tr><th></th><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>*</td><td>6875.00</td><td>95.70</td><td></td><td></td><td>91.67</td><td>4.03</td><td>Average</td><td>202</td><td>341</td></tr><tr><td>2</td><td>*</td><td>6875.00</td><td>109.72</td><td></td><td></td><td>105.69</td><td>4.03</td><td>Peak</td><td>202</td><td>341</td></tr><tr><td>3</td><td></td><td>13750.00</td><td>44.21</td><td>68.20</td><td>-23.99</td><td>36.94</td><td>7.27</td><td>Average</td><td>100</td><td>35</td></tr><tr><td>4</td><td></td><td>13750.00</td><td>56.46</td><td>88.20</td><td>-31.74</td><td>49.19</td><td>7.27</td><td>Peak</td><td>100</td><td>35</td></tr><tr><td>5</td><td></td><td>20625.00</td><td>40.53</td><td>54.00</td><td>-13.47</td><td>36.93</td><td>3.60</td><td>Average</td><td>100</td><td>48</td></tr><tr><td>6</td><td></td><td>20625.00</td><td>53.56</td><td>74.00</td><td>-20.44</td><td>49.96</td><td>3.60</td><td>Peak</td><td>100</td><td>48</td></tr><tr><td>7</td><td></td><td>27500.00</td><td>44.08</td><td>68.20</td><td>-24.12</td><td>34.51</td><td>9.57</td><td>Average</td><td>100</td><td>134</td></tr><tr><td>8</td><td></td><td>27500.00</td><td>57.27</td><td>88.20</td><td>-30.93</td><td>47.70</td><td>9.57</td><td>Peak</td><td>100</td><td>134</td></tr></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: "*" is Peak / Average value of fundamental frequency												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	*	6875.00	95.70			91.67	4.03	Average	202	341	2	*	6875.00	109.72			105.69	4.03	Peak	202	341	3		13750.00	44.21	68.20	-23.99	36.94	7.27	Average	100	35	4		13750.00	56.46	88.20	-31.74	49.19	7.27	Peak	100	35	5		20625.00	40.53	54.00	-13.47	36.93	3.60	Average	100	48	6		20625.00	53.56	74.00	-20.44	49.96	3.60	Peak	100	48	7		27500.00	44.08	68.20	-24.12	34.51	9.57	Average	100	134	8		27500.00	57.27	88.20	-30.93	47.70	9.57	Peak	100	134
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Modulation		ax HE20			Test Freq. (MHz)		6875																																																																																																																												
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Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64																																																																																																																													
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Modulation	ax HE20	Test Freq. (MHz)	6895																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Brad Wu Temperature(°C):23 Humidity(%):64																																																																																																																	
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Modulation		ax HE20		Test Freq. (MHz)		6895																																																																																																				
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Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64																																																																																																				
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Test By		:Brad Wu		Temperature(°C):23		Humidity(%):64																																																																																																																												
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Level (dBuV/m) <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>7095.00</td><td>97.14</td><td></td><td>91.88</td><td>5.26</td><td>Average</td><td>218</td><td>354</td></tr><tr><td>2</td><td>*</td><td>7095.00</td><td>111.80</td><td>-----</td><td>106.54</td><td>5.26</td><td>Peak</td><td>218</td><td>354</td></tr><tr><td>3</td><td></td><td>7125.00</td><td>47.17</td><td>68.20</td><td>-21.03</td><td>41.90</td><td>5.27</td><td>Average</td><td>218</td><td>354</td></tr><tr><td>4</td><td></td><td>7125.00</td><td>60.32</td><td>88.20</td><td>-27.88</td><td>55.05</td><td>5.27</td><td>Peak</td><td>218</td><td>354</td></tr><tr><td>5</td><td></td><td>14190.00</td><td>44.99</td><td>68.20</td><td>-23.21</td><td>36.95</td><td>8.04</td><td>Average</td><td>100</td><td>29</td></tr><tr><td>6</td><td></td><td>14190.00</td><td>58.00</td><td>88.20</td><td>-30.20</td><td>49.96</td><td>8.04</td><td>Peak</td><td>100</td><td>29</td></tr><tr><td>7</td><td></td><td>21285.00</td><td>41.15</td><td>54.00</td><td>-12.85</td><td>36.68</td><td>4.47</td><td>Average</td><td>100</td><td>144</td></tr><tr><td>8</td><td></td><td>21285.00</td><td>54.97</td><td>74.00</td><td>-19.03</td><td>50.50</td><td>4.47</td><td>Peak</td><td>100</td><td>144</td></tr><tr><td>9</td><td></td><td>28380.00</td><td>45.07</td><td>68.20</td><td>-23.13</td><td>34.59</td><td>10.48</td><td>Average</td><td>100</td><td>173</td></tr><tr><td>10</td><td></td><td>28380.00</td><td>58.35</td><td>88.20</td><td>-29.85</td><td>47.87</td><td>10.48</td><td>Peak</td><td>100</td><td>173</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	*	7095.00	97.14		91.88	5.26	Average	218	354	2	*	7095.00	111.80	-----	106.54	5.26	Peak	218	354	3		7125.00	47.17	68.20	-21.03	41.90	5.27	Average	218	354	4		7125.00	60.32	88.20	-27.88	55.05	5.27	Peak	218	354	5		14190.00	44.99	68.20	-23.21	36.95	8.04	Average	100	29	6		14190.00	58.00	88.20	-30.20	49.96	8.04	Peak	100	29	7		21285.00	41.15	54.00	-12.85	36.68	4.47	Average	100	144	8		21285.00	54.97	74.00	-19.03	50.50	4.47	Peak	100	144	9		28380.00	45.07	68.20	-23.13	34.59	10.48	Average	100	173	10		28380.00	58.35	88.20	-29.85	47.87	10.48	Peak	100	173
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																											
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Modulation		ax HE20			Test Freq. (MHz)		7095			
Polarization		Vertical								
Test By		:Brad Wu			Temperature(°C):23		Humidity(%):64			
Level (dBuV/m)										



Modulation	ax HE20	Test Freq. (MHz)	7115
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):23 Humidity(%):64			
Level (dBUV/m) </			



Modulation		ax HE20		Test Freq. (MHz)		7115				
Polarization		Vertical								
Test By		:Roger Lu-		Temperature(°C):23		Humidity(%):64				
Level (dBUV/m) Frequency (MHz)										
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level			reading			High	Table
			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	*	7115.00	90.88			85.60	5.28	Average	100	176
2	*	7115.00	103.91	-----	-----	98.63	5.28	Peak	100	176
3		7125.00	66.18	68.20	-2.02	60.91	5.27	Average	100	176
4		7125.00	76.59	88.20	-11.61	71.32	5.27	Peak	100	176
5		14230.00	44.89	68.20	-23.31	36.82	8.07	Average	100	122
6		14230.00	57.52	88.20	-30.68	49.45	8.07	Peak	100	122
7		21345.00	41.07	54.00	-12.93	36.57	4.50	Average	100	165
8		21345.00	53.84	74.00	-20.16	49.34	4.50	Peak	100	165
9		28460.00	45.32	68.20	-22.88	34.78	10.54	Average	100	58
10		28460.00	57.79	88.20	-30.41	47.25	10.54	Peak	100	58

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)	5965
Polarization	Horizontal		
Test By :Roger Lu- Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE40	Test Freq. (MHz)	5965																																																																																										
Polarization	Vertical																																																																																												
Test By :Roger Lu- Temperature(°C):23 Humidity(%):64																																																																																													
<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>5925.00</td><td>51.21</td><td>68.20</td><td>-16.99</td><td>50.07</td><td>1.14</td><td>Average</td><td>145</td><td>193</td></tr><tr><td>2</td><td>5925.00</td><td>66.96</td><td>88.20</td><td>-21.24</td><td>65.82</td><td>1.14</td><td>Peak</td><td>145</td><td>193</td></tr><tr><td>3 *</td><td>5965.00</td><td>95.48</td><td></td><td></td><td>94.24</td><td>1.24</td><td>Average</td><td>145</td><td>193</td></tr><tr><td>4 *</td><td>5965.00</td><td>107.57</td><td></td><td></td><td>106.33</td><td>1.24</td><td>Peak</td><td>145</td><td>193</td></tr><tr><td>5</td><td>11930.00</td><td>42.13</td><td>54.00</td><td>-11.87</td><td>35.02</td><td>7.11</td><td>Average</td><td>100</td><td>153</td></tr><tr><td>6</td><td>11930.00</td><td>54.30</td><td>74.00</td><td>-19.70</td><td>47.19</td><td>7.11</td><td>Peak</td><td>100</td><td>153</td></tr><tr><td>7</td><td>23860.00</td><td>42.28</td><td>54.00</td><td>-11.72</td><td>34.56</td><td>7.72</td><td>Average</td><td>100</td><td>221</td></tr><tr><td>8</td><td>23860.00</td><td>54.64</td><td>74.00</td><td>-19.36</td><td>46.92</td><td>7.72</td><td>Peak</td><td>100</td><td>221</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	5925.00	51.21	68.20	-16.99	50.07	1.14	Average	145	193	2	5925.00	66.96	88.20	-21.24	65.82	1.14	Peak	145	193	3 *	5965.00	95.48			94.24	1.24	Average	145	193	4 *	5965.00	107.57			106.33	1.24	Peak	145	193	5	11930.00	42.13	54.00	-11.87	35.02	7.11	Average	100	153	6	11930.00	54.30	74.00	-19.70	47.19	7.11	Peak	100	153	7	23860.00	42.28	54.00	-11.72	34.56	7.72	Average	100	221	8	23860.00	54.64	74.00	-19.36	46.92	7.72	Peak	100	221
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Modulation		ax HE40		Test Freq. (MHz)		6165																																																																																																																										
Polarization		Horizontal																																																																																																																														
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																																										
Level (dBuV/m) UNII 5~8-PK UNII 5~8-AV Frequency (MHz) <table><tr><th></th><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></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>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>*</td><td>6165.00</td><td>96.20</td><td></td><td></td><td>94.52</td><td>1.68</td><td>Average</td><td>127</td><td>339</td></tr><tr><td>2</td><td>*</td><td>6165.00</td><td>110.21</td><td>-----</td><td>-----</td><td>108.53</td><td>1.68</td><td>Peak</td><td>127</td><td>339</td></tr><tr><td>3</td><td></td><td>12330.00</td><td>41.63</td><td>54.00</td><td>-12.37</td><td>34.64</td><td>6.99</td><td>Average</td><td>100</td><td>183</td></tr><tr><td>4</td><td></td><td>12330.00</td><td>54.10</td><td>74.00</td><td>-19.90</td><td>47.11</td><td>6.99</td><td>Peak</td><td>100</td><td>183</td></tr><tr><td>5</td><td></td><td>18495.00</td><td>40.16</td><td>54.00</td><td>-13.84</td><td>38.66</td><td>1.50</td><td>Average</td><td>100</td><td>155</td></tr><tr><td>6</td><td></td><td>18495.00</td><td>53.19</td><td>74.00</td><td>-20.81</td><td>51.69</td><td>1.50</td><td>Peak</td><td>100</td><td>155</td></tr><tr><td>7</td><td></td><td>24660.00</td><td>42.83</td><td>68.20</td><td>-25.37</td><td>34.19</td><td>8.64</td><td>Average</td><td>100</td><td>86</td></tr><tr><td>8</td><td></td><td>24660.00</td><td>55.65</td><td>88.20</td><td>-32.55</td><td>47.01</td><td>8.64</td><td>Peak</td><td>100</td><td>86</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	*	6165.00	96.20			94.52	1.68	Average	127	339	2	*	6165.00	110.21	-----	-----	108.53	1.68	Peak	127	339	3		12330.00	41.63	54.00	-12.37	34.64	6.99	Average	100	183	4		12330.00	54.10	74.00	-19.90	47.11	6.99	Peak	100	183	5		18495.00	40.16	54.00	-13.84	38.66	1.50	Average	100	155	6		18495.00	53.19	74.00	-20.81	51.69	1.50	Peak	100	155	7		24660.00	42.83	68.20	-25.37	34.19	8.64	Average	100	86	8		24660.00	55.65	88.20	-32.55	47.01	8.64	Peak	100	86
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																						
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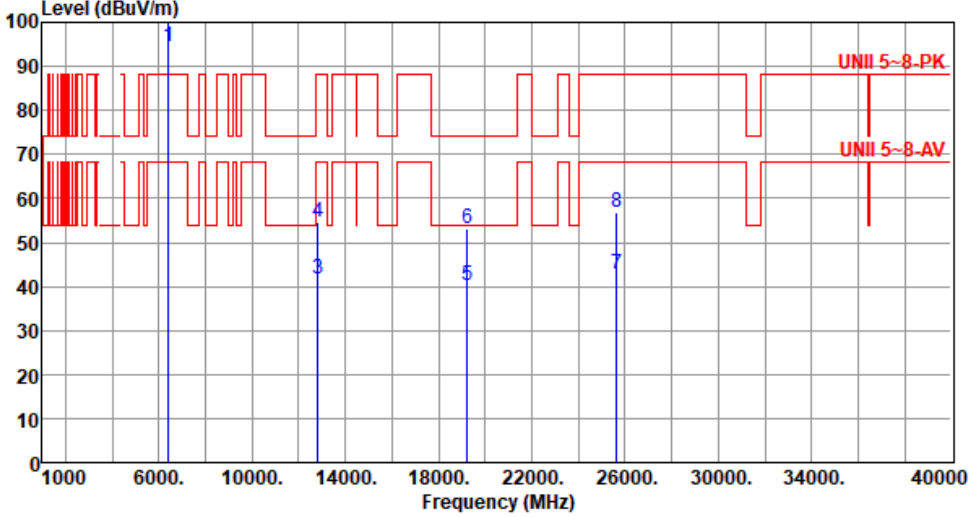


Modulation	ax HE40		Test Freq. (MHz)		6165																																																																																																																														
Polarization	Vertical																																																																																																																																		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):62																																																																																																																																			
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1	*	6165.00	96.16			94.48	1.68	Average	128	197																																																																																																																									
2	*	6165.00	110.29	-----	-----	108.61	1.68	Peak	128	197																																																																																																																									
3		12330.00	41.05	54.00	-12.95	34.06	6.99	Average	100	158																																																																																																																									
4		12330.00	54.69	74.00	-19.31	47.70	6.99	Peak	100	158																																																																																																																									
5		18495.00	40.23	54.00	-13.77	38.73	1.50	Average	100	25																																																																																																																									
6		18495.00	53.67	74.00	-20.33	52.17	1.50	Peak	100	25																																																																																																																									
7		24660.00	42.99	68.20	-25.21	34.35	8.64	Average	100	165																																																																																																																									
8		24660.00	56.61	88.20	-31.59	47.97	8.64	Peak	100	165																																																																																																																									
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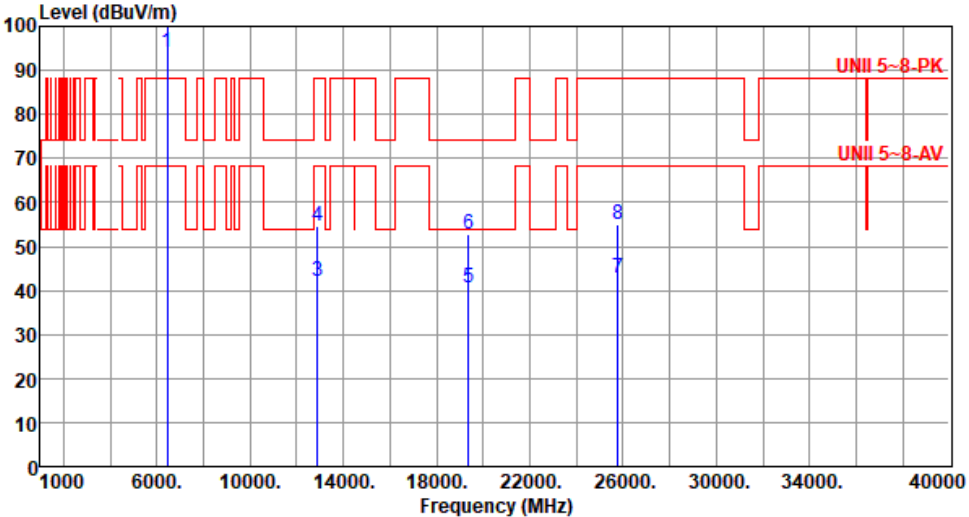


Modulation		ax HE40		Test Freq. (MHz)		6405			
Polarization		Horizontal							
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62			
Level (dBuV/m)									

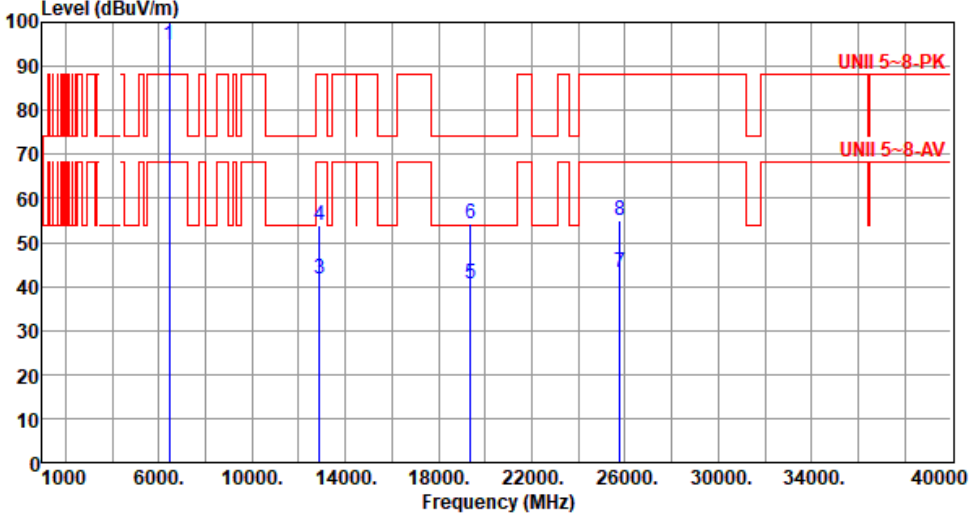


Modulation		ax HE40			Test Freq. (MHz)		6405																																																																																																																												
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		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																									
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Modulation		ax HE40		Test Freq. (MHz)		6445																																																																																																						
Polarization		Horizontal																																																																																																										
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																						
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		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																																		
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Modulation		ax HE40			Test Freq. (MHz)		6445																																																																																																						
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Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																							
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Modulation		ax HE40		Test Freq. (MHz)		6485																																																																																																																												
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Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																																												
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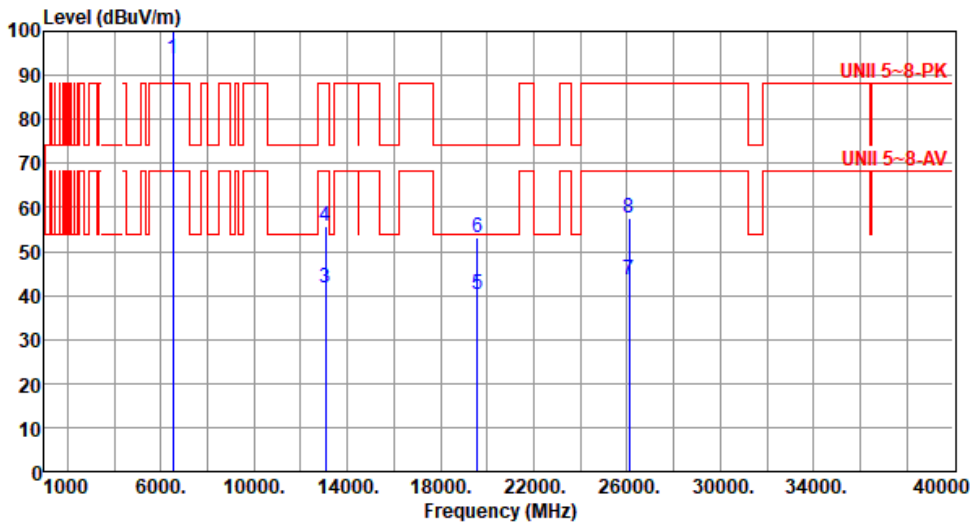


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Modulation		ax HE40			Test Freq. (MHz)		6725																																																																																																						
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Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																							
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Modulation		ax HE40		Test Freq. (MHz)		6725			
Polarization		Vertical							
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62			
Level (dBuV/m)									



Modulation		ax HE40		Test Freq. (MHz)		6845																																																																																																																												
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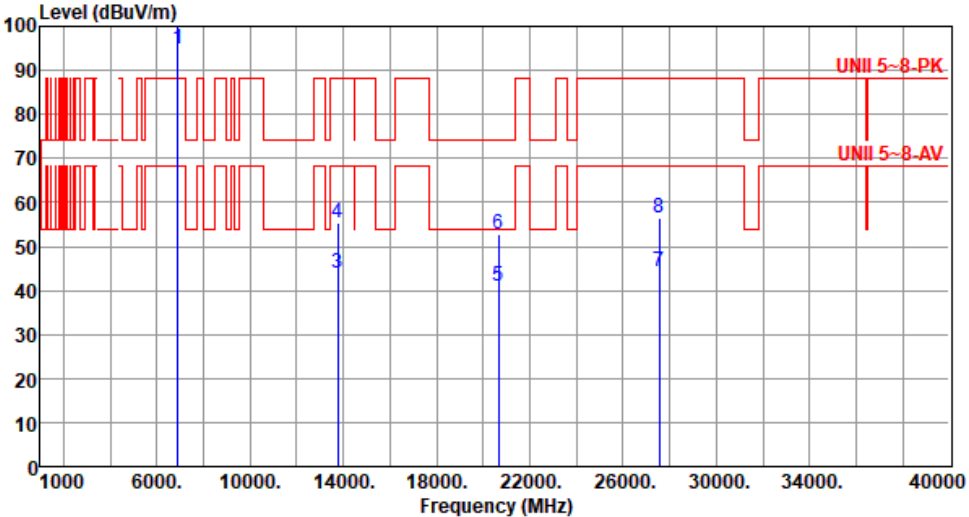


Modulation		ax HE40		Test Freq. (MHz)		6845																																																																																																						
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Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																						
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Modulation		ax HE40		Test Freq. (MHz)		6885																																																																																																																												
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Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																																												
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><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></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>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></thead><tbody><tr><td>1</td><td>*</td><td>6885.00</td><td>95.44</td><td></td><td></td><td>91.34</td><td>4.10</td><td>Average</td><td>190</td><td>350</td></tr><tr><td>2</td><td>*</td><td>6885.00</td><td>107.74</td><td>-----</td><td>-----</td><td>103.64</td><td>4.10</td><td>Peak</td><td>190</td><td>350</td></tr><tr><td>3</td><td></td><td>13770.00</td><td>43.86</td><td>68.20</td><td>-24.34</td><td>36.59</td><td>7.27</td><td>Average</td><td>100</td><td>154</td></tr><tr><td>4</td><td></td><td>13770.00</td><td>55.28</td><td>88.20</td><td>-32.92</td><td>48.01</td><td>7.27</td><td>Peak</td><td>100</td><td>154</td></tr><tr><td>5</td><td></td><td>20655.00</td><td>41.37</td><td>54.00</td><td>-12.63</td><td>37.81</td><td>3.56</td><td>Average</td><td>100</td><td>265</td></tr><tr><td>6</td><td></td><td>20655.00</td><td>54.23</td><td>74.00</td><td>-19.77</td><td>50.67</td><td>3.56</td><td>Peak</td><td>100</td><td>265</td></tr><tr><td>7</td><td></td><td>27540.00</td><td>44.12</td><td>68.20</td><td>-24.08</td><td>34.54</td><td>9.58</td><td>Average</td><td>100</td><td>178</td></tr><tr><td>8</td><td></td><td>27540.00</td><td>56.63</td><td>88.20</td><td>-31.57</td><td>47.05</td><td>9.58</td><td>Peak</td><td>100</td><td>178</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency												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	*	6885.00	95.44			91.34	4.10	Average	190	350	2	*	6885.00	107.74	-----	-----	103.64	4.10	Peak	190	350	3		13770.00	43.86	68.20	-24.34	36.59	7.27	Average	100	154	4		13770.00	55.28	88.20	-32.92	48.01	7.27	Peak	100	154	5		20655.00	41.37	54.00	-12.63	37.81	3.56	Average	100	265	6		20655.00	54.23	74.00	-19.77	50.67	3.56	Peak	100	265	7		27540.00	44.12	68.20	-24.08	34.54	9.58	Average	100	178	8		27540.00	56.63	88.20	-31.57	47.05	9.58	Peak	100	178
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																								
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Modulation		ax HE40		Test Freq. (MHz)		6885																																																																																																						
Polarization		Vertical																																																																																																										
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																						
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Modulation		ax HE40			Test Freq. (MHz)		6925																																																																																																						
Polarization		Horizontal																																																																																																											
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																							
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Modulation	ax HE40		Test Freq. (MHz)		6925					
Polarization	Vertical									
Test By :Roger Lu-			Temperature(°C):24			Humidity(%):62				
Level (dBuV/m) Frequency (MHz)										
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level			reading			High	Table
			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	*	6925.00	95.73			91.40	4.33	Average	122	202
2	*	6925.00	108.50			104.17	4.33	Peak	122	202
3		13850.00	43.90	68.20	-24.30	36.59	7.31	Average	100	241
4		13850.00	57.03	88.20	-31.17	49.72	7.31	Peak	100	241
5		20775.00	40.62	54.00	-13.38	37.13	3.49	Average	100	186
6		20775.00	54.51	74.00	-19.49	51.02	3.49	Peak	100	186
7		27700.00	43.71	68.20	-24.49	34.13	9.58	Average	100	265
8		27700.00	57.11	88.20	-31.09	47.53	9.58	Peak	100	265

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



Modulation		ax HE40		Test Freq. (MHz)		7005	
Polarization		Horizontal					
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62	
Level (dBuV/m)							



Modulation		ax HE40		Test Freq. (MHz)		7005																																																																																																				
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Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																				
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*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)		7085																																																																																																						
Polarization		Horizontal																																																																																																										
Test By		:Roger Lu-		Temperature(°C):23		Humidity(%):64																																																																																																						
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Modulation		ax HE40			Test Freq. (MHz)		7085																																																																																																																
Polarization		Vertical																																																																																																																					
Test By		:Roger Lu-		Temperature(°C):23		Humidity(%):64																																																																																																																	
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Unwanted Emissions (Above 1GHz) for ax HE80

Modulation	ax HE80	Test Freq. (MHz)	5985																																																																																										
Polarization	Horizontal																																																																																												
Test By :Roger Lu- Temperature(°C):23 Humidity(%):64																																																																																													
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Modulation	ax HE80	Test Freq. (MHz)	5985
Polarization	Vertical		
Test By :Roger Lu- Temperature(°C):23 Humidity(%):64			
Level (dBUV/m) </			

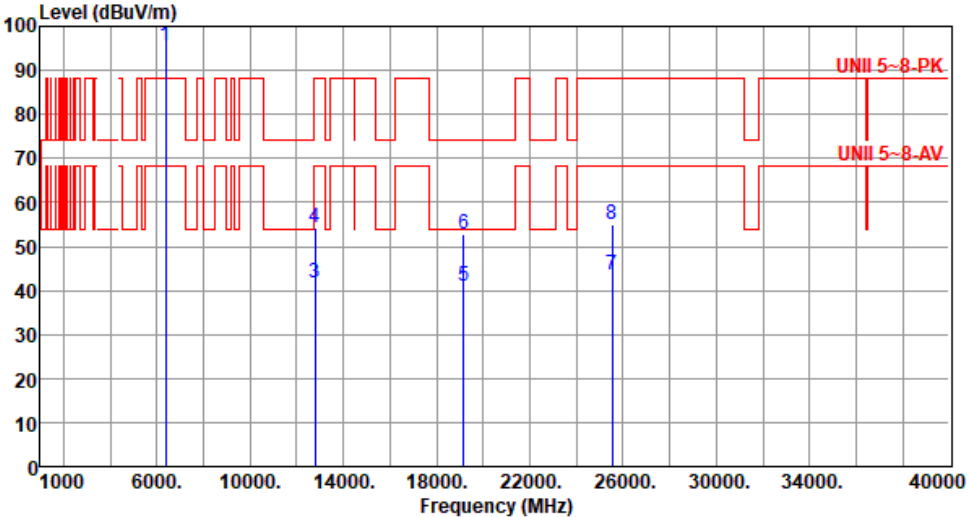


Modulation		ax HE80		Test Freq. (MHz)		6145																																																																																																						
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Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																						
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Modulation		ax HE80		Test Freq. (MHz)		6545																																																																																																																												
Polarization		Horizontal																																																																																																																																
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																																												
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Modulation		ax HE80		Test Freq. (MHz)		6545				
Polarization		Vertical								
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62				
Level (dBuV/m) Frequency (MHz)										
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level			reading			High	Table
			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	*	6545.00	95.49			91.93	3.56	Average	196	190
2	*	6545.00	108.27	-----	-----	104.71	3.56	Peak	196	190
3		13090.00	43.32	68.20	-24.88	36.37	6.95	Average	100	264
4		13090.00	56.28	88.20	-31.92	49.33	6.95	Peak	100	264
5		19635.00	40.30	54.00	-13.70	38.11	2.19	Average	100	63
6		19635.00	52.36	74.00	-21.64	50.17	2.19	Peak	100	63
7		26180.00	43.12	68.20	-25.08	34.37	8.75	Average	100	177
8		26180.00	56.07	88.20	-32.13	47.32	8.75	Peak	100	177

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)		6625																																																																																																																														
Polarization	Horizontal																																																																																																																																		
Test By :Roger Lu- Temperature(°C):24 Humidity(%):62																																																																																																																																			
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		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																									
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Modulation		ax HE80			Test Freq. (MHz)		6625			
Polarization		Vertical								
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62				



Modulation		ax HE80		Test Freq. (MHz)		6705																																																																																																				
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Modulation		ax HE80		Test Freq. (MHz)		6785																																																																																																															
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Modulation		ax HE80			Test Freq. (MHz)		6785		
Polarization		Vertical							
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62			
Level (dBuV/m) </									



Modulation		ax HE80		Test Freq. (MHz)		6865																																																																																																				
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Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																																										
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Modulation		ax HE80			Test Freq. (MHz)		6945																																																																																																						
Polarization		Vertical																																																																																																											
Test By		:Roger Lu-		Temperature(°C):24		Humidity(%):62																																																																																																							
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Modulation		ax HE80		Test Freq. (MHz)		7025																																																																																																						
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Test By		:Roger Lu-		Temperature(°C):23		Humidity(%):64																																																																																																						
Level (dBUV/m) 100 90 80 70 60 50 40 30 20 10 0 1000 6000. 10000. 14000. 18000. 22000. 26000. 30000. 34000. 40000 Frequency (MHz) <table><tr><th></th><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>*</td><td>7025.00</td><td>98.05</td><td></td><td></td><td>93.20</td><td>4.85</td><td>Average</td><td>253</td><td>180</td></tr><tr><td>2</td><td>*</td><td>7025.00</td><td>111.10</td><td></td><td></td><td>106.25</td><td>4.85</td><td>Peak</td><td>253</td><td>180</td></tr><tr><td>3</td><td></td><td>7125.00</td><td>56.01</td><td>68.20</td><td>-12.19</td><td>50.74</td><td>5.27</td><td>Average</td><td>253</td><td>180</td></tr><tr><td>4</td><td></td><td>7125.00</td><td>68.25</td><td>88.20</td><td>-19.95</td><td>62.98</td><td>5.27</td><td>Peak</td><td>253</td><td>180</td></tr><tr><td>5</td><td></td><td>14050.00</td><td>44.65</td><td>68.20</td><td>-23.55</td><td>36.79</td><td>7.86</td><td>Average</td><td>100</td><td>56</td></tr><tr><td>6</td><td></td><td>14050.00</td><td>58.29</td><td>88.20</td><td>-29.91</td><td>50.43</td><td>7.86</td><td>Peak</td><td>100</td><td>56</td></tr><tr><td>7</td><td></td><td>21075.00</td><td>41.19</td><td>54.00</td><td>-12.81</td><td>37.27</td><td>3.92</td><td>Average</td><td>100</td><td>188</td></tr><tr><td>8</td><td></td><td>21075.00</td><td>53.12</td><td>74.00</td><td>-20.88</td><td>49.20</td><td>3.92</td><td>Peak</td><td>100</td><td>188</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	*	7025.00	98.05			93.20	4.85	Average	253	180	2	*	7025.00	111.10			106.25	4.85	Peak	253	180	3		7125.00	56.01	68.20	-12.19	50.74	5.27	Average	253	180	4		7125.00	68.25	88.20	-19.95	62.98	5.27	Peak	253	180	5		14050.00	44.65	68.20	-23.55	36.79	7.86	Average	100	56	6		14050.00	58.29	88.20	-29.91	50.43	7.86	Peak	100	56	7		21075.00	41.19	54.00	-12.81	37.27	3.92	Average	100	188	8		21075.00	53.12	74.00	-20.88	49.20	3.92	Peak	100	188
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Modulation		ax HE80			Test Freq. (MHz)		7025																																																																																																																											
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Test By		:Roger Lu-		Temperature(°C):23		Humidity(%):64																																																																																																																												
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Unwanted Emissions (Above 1GHz) for ax HE160

Modulation	ax HE160		Test Freq. (MHz)		6025																																																																																											
Polarization	Horizontal																																																																																															
Test By :Roger Lu- Temperature(°C):23 Humidity(%):64																																																																																																
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Modulation	ax HE160	Test Freq. (MHz)	6025																																																																																										
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Modulation	ax HE160	Test Freq. (MHz)	6185																																																																																																				
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Test By		:Roger Lu-		Temperature(°C):26		Humidity(%):63																																																																																																															
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8		25380.00	57.22	88.20	-30.98	48.67	Peak	100	21																																																																																																												
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Modulation	ax HE160	Test Freq. (MHz)	6345																																																																																																																				
Polarization	Vertical																																																																																																																						
Test By :Roger Lu- Temperature(°C):26 Humidity(%):63																																																																																																																							
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></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>*</td><td>6345.00</td><td>95.92</td><td></td><td>93.51</td><td>2.41</td><td>Average</td><td>125</td><td>62</td></tr><tr><td>2</td><td>*</td><td>6345.00</td><td>109.57</td><td></td><td>107.16</td><td>2.41</td><td>Peak</td><td>125</td><td>62</td></tr><tr><td>3</td><td></td><td>12690.00</td><td>43.34</td><td>54.00</td><td>-10.66</td><td>36.55</td><td>6.79</td><td>Average</td><td>100</td><td>24</td></tr><tr><td>4</td><td></td><td>12690.00</td><td>55.01</td><td>74.00</td><td>-18.99</td><td>48.22</td><td>6.79</td><td>Peak</td><td>100</td><td>24</td></tr><tr><td>5</td><td></td><td>19035.00</td><td>41.68</td><td>54.00</td><td>-12.32</td><td>39.58</td><td>2.10</td><td>Average</td><td>100</td><td>73</td></tr><tr><td>6</td><td></td><td>19035.00</td><td>53.74</td><td>74.00</td><td>-20.26</td><td>51.64</td><td>2.10</td><td>Peak</td><td>100</td><td>73</td></tr><tr><td>7</td><td></td><td>25380.00</td><td>44.00</td><td>68.20</td><td>-24.20</td><td>35.45</td><td>8.55</td><td>Average</td><td>100</td><td>121</td></tr><tr><td>8</td><td></td><td>25380.00</td><td>57.15</td><td>88.20</td><td>-31.05</td><td>48.60</td><td>8.55</td><td>Peak</td><td>100</td><td>121</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	*	6345.00	95.92		93.51	2.41	Average	125	62	2	*	6345.00	109.57		107.16	2.41	Peak	125	62	3		12690.00	43.34	54.00	-10.66	36.55	6.79	Average	100	24	4		12690.00	55.01	74.00	-18.99	48.22	6.79	Peak	100	24	5		19035.00	41.68	54.00	-12.32	39.58	2.10	Average	100	73	6		19035.00	53.74	74.00	-20.26	51.64	2.10	Peak	100	73	7		25380.00	44.00	68.20	-24.20	35.45	8.55	Average	100	121	8		25380.00	57.15	88.20	-31.05	48.60	8.55	Peak	100	121
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Modulation		ax HE160		Test Freq. (MHz)		6505			
Polarization		Horizontal							
Test By		:Roger Lu-		Temperature(°C):26		Humidity(%):63			
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Modulation	ax HE160		Test Freq. (MHz)		6505																																																																																																																													
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Modulation		ax HE160		Test Freq. (MHz)		6665			
Polarization		Horizontal							
Test By		:Roger Lu-		Temperature(°C):26		Humidity(%):63			
Level (dBUV/m) </									