

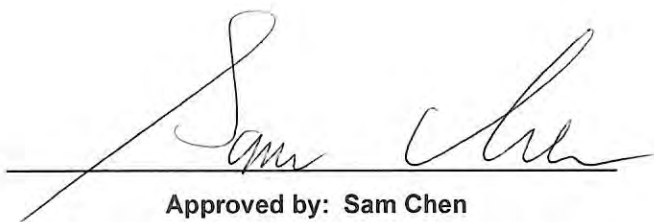


RADIO TEST REPORT

FCC ID : RSL-TQ6702EGEN2
Equipment : IEEE802.11ax dual-radio 5G/2.4GHz 8x8+4x4 wireless AP
Brand Name : Allied Telesis
Model Name : AT-TQ6702e GEN2
Applicant : Allied Telesis K.K.
2nd. TOC Bldg.7-21-11 Nishi-Gotanda,
Shinagawa-ku Tokyo 1410031 Japan
Manufacturer : Allied Telesis K.K.
2nd. TOC Bldg.7-21-11 Nishi-Gotanda,
Shinagawa-ku Tokyo 1410031 Japan
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 30, 2022, and testing was started from Oct. 07, 2022 and completed on Nov. 23, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

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Photographs of EUT v01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Output Power	PASS	-
3.4	15.407(a)	Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

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.

Reviewed by: Sam Chen

Report Producer: Wendy Pan



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	8TX
5.15-5.25GHz	802.11n HT20	20	8TX
5.15-5.25GHz	802.11n HT20-BF	20	8TX
5.15-5.25GHz	802.11ac VHT20	20	8TX
5.15-5.25GHz	802.11ac VHT20-BF	20	8TX
5.15-5.25GHz	802.11ax HEW20	20	8TX
5.15-5.25GHz	802.11ax HEW20-BF	20	8TX
5.15-5.25GHz	802.11n HT40	40	8TX
5.15-5.25GHz	802.11n HT40-BF	40	8TX
5.15-5.25GHz	802.11ac VHT40	40	8TX
5.15-5.25GHz	802.11ac VHT40-BF	40	8TX
5.15-5.25GHz	802.11ax HEW40	40	8TX
5.15-5.25GHz	802.11ax HEW40-BF	40	8TX
5.15-5.25GHz	802.11ac VHT80	80	8TX
5.15-5.25GHz	802.11ac VHT80-BF	80	8TX
5.15-5.25GHz	802.11ax HEW80	80	8TX
5.15-5.25GHz	802.11ax HEW80-BF	80	8TX
5.725-5.85GHz	802.11a	20	8TX
5.725-5.85GHz	802.11n HT20	20	8TX
5.725-5.85GHz	802.11n HT20-BF	20	8TX
5.725-5.85GHz	802.11ac VHT20	20	8TX
5.725-5.85GHz	802.11ac VHT20-BF	20	8TX



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11ax HEW20	20	8TX
5.725-5.85GHz	802.11ax HEW20-BF	20	8TX
5.725-5.85GHz	802.11n HT40	40	8TX
5.725-5.85GHz	802.11n HT40-BF	40	8TX
5.725-5.85GHz	802.11ac VHT40	40	8TX
5.725-5.85GHz	802.11ac VHT40-BF	40	8TX
5.725-5.85GHz	802.11ax HEW40	40	8TX
5.725-5.85GHz	802.11ax HEW40-BF	40	8TX
5.725-5.85GHz	802.11ac VHT80	80	8TX
5.725-5.85GHz	802.11ac VHT80-BF	80	8TX
5.725-5.85GHz	802.11ax HEW80	80	8TX
5.725-5.85GHz	802.11ax HEW80-BF	80	8TX

Note:

- ◆ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ◆ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ◆ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ◆ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

Set	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1~8	WHAYU	C478-690079-A	Dipole	N-Type	Note 1
	1~8	WHAYU	C478-690080-A	Dipole	N-Type	
2	1~8	Angeei	EXD24140D01	Patch	N-Type	

Note1:

Set	Port	Antenna Gain (dBi)					Internal loss+ Surge protector					Net Gain (dBi)				
		WLAN 2.4GHz	WLAN 5GHz				WLAN 2.4GHz	WLAN 5GHz				WLAN 2.4GH	WLAN 5GHz			
			UNII 1	UNII 2A	UNII 2C	UNII 3		UNII 1	UNII 2A	UNII 2C	UNII 3		UNII 1	UNII 2A	UNII 2C	UNII 3
1 (Dual Band)	1	3.5	6	5.8	5.5	5.5	0.58	0.69	0.79	0.9	0.8	2.92	5.31	5.01	4.6	4.7
	2	3.5	6	5.8	5.5	5.5	1.09	1.53	1.7	1.6	1.64	2.41	4.47	4.1	3.9	3.86
	3	3.5	6	5.8	5.5	5.5	0.93	1.35	1.37	1.3	1.24	2.57	4.65	4.43	4.2	4.26
	4	3.5	6	5.8	5.5	5.5	0.62	0.75	0.71	0.49	0.59	2.88	5.25	5.09	5.01	4.91
	5	-	6	5.8	5.5	5.5	-	0.75	0.79	0.84	0.66	-	5.25	5.01	4.66	4.84
	6	-	6	5.8	5.5	5.5	-	1.3	1.35	1.28	1.27	-	4.7	4.45	4.22	4.23
	7	-	6	5.8	5.5	5.5	-	1.05	1.21	1.07	1.01	-	4.95	4.59	4.43	4.49
	8	-	6	5.8	5.5	5.5	-	1.28	1.49	1.44	1.28	-	4.72	4.31	4.06	4.22

Set	Port	Antenna Gain (dBi)				Internal loss+ Surge protector				Net Gain (dBi)			
		WLAN 5GHz				WLAN 5GHz				WLAN 5GHz			
		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 1	UNII 2A	UNII 2C	UNII 3
1 (Single Band)	1	6.91	6.72	6.34	7.08	0.69	0.79	0.9	0.8	6.22	5.93	5.44	6.28
	2	6.91	6.72	6.34	7.08	1.53	1.7	1.6	1.64	5.38	5.02	4.74	5.44
	3	6.91	6.72	6.34	7.08	1.35	1.37	1.3	1.24	5.56	5.35	5.04	5.84
	4	6.91	6.72	6.34	7.08	0.75	0.71	0.49	0.59	6.16	6.01	5.85	6.49
	5	6.91	6.72	6.34	7.08	0.75	0.79	0.84	0.66	6.16	5.93	5.5	6.42
	6	6.91	6.72	6.34	7.08	1.3	1.35	1.28	1.27	5.61	5.37	5.06	5.81
	7	6.91	6.72	6.34	7.08	1.05	1.21	1.07	1.01	5.86	5.51	5.27	6.07
	8	6.91	6.72	6.34	7.08	1.28	1.49	1.44	1.28	5.63	5.23	4.9	5.8



Set	Port	Antenna Gain (dBi)		2M N-type cable loss		Internal loss+ Surge protector				Net Gain (dBi)					
		WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz				WLAN 2.4GHz	WLAN 5GHz			
							UNII 1	UNII 2A	UNII 2C	UNII 3		UNII 1	UNII 2A	UNII 2C	UNII 3
2 (2M N-type cable)	1	13	16	0.75	1.23	0.58	0.69	0.79	0.9	0.8	11.67	14.08	13.98	13.87	13.97
	2	13	16	0.75	1.23	1.09	1.53	1.7	1.6	1.64	11.16	13.24	13.07	13.17	13.13
	3	13	16	0.75	1.23	0.93	1.35	1.37	1.3	1.24	11.32	13.42	13.4	13.47	13.53
	4	13	16	0.75	1.23	0.62	0.75	0.71	0.49	0.59	11.63	14.02	14.06	14.28	14.18
	5	-	16	-	1.23	-	0.75	0.79	0.84	0.66	-	14.02	13.98	13.93	14.11
	6	-	16	-	1.23	-	1.3	1.35	1.28	1.27	-	13.47	13.42	13.49	13.5
	7	-	16	-	1.23	-	1.05	1.21	1.07	1.01	-	13.72	13.56	13.7	13.76
	8	-	16	-	1.23	-	1.28	1.49	1.44	1.28	-	13.49	13.28	13.33	13.49

Set	Port	Antenna Gain (dBi)		2M N-type cable loss		10M N-type cable loss		Internal loss+ Surge protector				Net Gain (dBi)					
		WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz				WLAN 2.4GHz	WLAN 5GHz			
									UNII 1	UNII 2A	UNII 2C	UNII 3		UNII 1	UNII 2A	UNII 2C	UNII 3
2 (2M + 10M N-type cable)	1	13	16	0.75	1.23	3.77	6.16	0.58	0.69	0.79	0.9	0.8	7.9	7.92	7.82	7.71	7.81
	2	13	16	0.75	1.23	3.77	6.16	1.09	1.53	1.7	1.6	1.64	7.39	7.08	6.91	7.01	6.97
	3	13	16	0.75	1.23	3.77	6.16	0.93	1.35	1.37	1.3	1.24	7.55	7.26	7.24	7.31	7.37
	4	13	16	0.75	1.23	3.77	6.16	0.62	0.75	0.71	0.49	0.59	7.86	7.86	7.9	8.12	8.02
	5	-	16	-	1.23	3.77	6.16	-	0.75	0.79	0.84	0.66		7.86	7.82	7.77	7.95
	6	-	16	-	1.23	3.77	6.16	-	1.3	1.35	1.28	1.27		7.31	7.26	7.33	7.34
	7	-	16	-	1.23	3.77	6.16	-	1.05	1.21	1.07	1.01		7.56	7.4	7.54	7.6
	8	-	16	-	1.23	3.77	6.16	-	1.28	1.49	1.44	1.28		7.33	7.12	7.17	7.33

Note2: The above information was declared by manufacturer.

This EUT doesn't enable UNII 2A, 2C.

For conducted and radiated above 1GHz, The EUT has two types of antenna. Only the highest gain antenna was selected from each different types of antenna to test and record in this report.

Set 1: Dual Band antenna was selected for WLAN 2.4GHz and Single Band antenna was selected for WLAN 5GHz to perform the test.

Set 2: 2M N-type cable was selected to perform the test.

Polarization of antenna set 2:

2.4GHz: 2*Horizontal, 2*Vertical. so array gain only adds 10log (2).

5GHz: 4*Horizontal, 4*Vertical. so array gain only adds 10log (4).

For WLAN 2.4GHz function:

For IEEE 802.11b/g/n/VHT/ax mode (4TX/4RX):

Port 1 ~ Port 4 can be used as transmitting/receiving antenna.

Port 1 ~ Port 4 could transmit/receive simultaneously.

For WLAN 5GHz function:

For IEEE 802.11a/n/ac/ax mode (8TX/8RX):

Port 1 ~ Port 8 can be used as transmitting/receiving antenna.

Port 1 ~ Port 8 could transmit/receive simultaneously.



Note3:

Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4 Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less, for 20-MHz channel widths with NANT ≥ 5.	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} \xi_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} \xi_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} \xi_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} \xi_{j,k} \right\}^2}{N_{ANT}} \right]$$

Directional gain For PSD and TXBF Power

NSS1(g1,2) = 10^{G1/20} ; NSS1(g1,2)= 10^{G2/20} ;

NSS1(g1,3)= 10^{G3/20}; NSS1(g1,4)= 10^{G4/20}

NSS1(g1,5) = 10^{G5/20} ; NSS1(g1,6)= 10^{G6/20} ;

NSS1(g1,7)= 10^{G7/20} ; NSS1(g1,8)= 10^{G8/20} g_{j,k} = (Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4) + Nss1(g1,5) + Nss1(g1,6) + Nss1(g1,7) + Nss1(g1,8))²

DG = 10 log[(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4) + (Nss1(g,5) + Nss1(g1,6) + Nss1(g1,7) + Nss1(g1,8))² / NANT] => 10 log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20} + 10^{G5/20} + 10^{G6/20} + 10^{G7/20} + 10^{G8/20})² / NANT]

Directional gain For nonTXBF 20Mhz Power

NSS1(g1,2) = 10^{G1/20} ; NSS1(g1,2)= 10^{G2/20} ;

NSS1(g1,3)= 10^{G3/20}; NSS1(g1,4)= 10^{G4/20}

NSS1(g1,5) = 10^{G5/20} ; NSS1(g1,6)= 10^{G6/20} ;

NSS1(g1,7)= 10^{G7/20} ; NSS1(g1,8)= 10^{G8/20} g_{j,k} = (Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4) + Nss1(g1,5) + Nss1(g1,6) + Nss1(g1,7) + Nss1(g1,8))²

DG = 10 log[(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4) + (Nss1(g,5) + Nss1(g1,6) + Nss1(g1,7) + Nss1(g1,8))² / NANT] => 5 log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20} + 10^{G5/20} + 10^{G6/20} + 10^{G7/20} + 10^{G8/20})² / NANT]



Where ;

Dipole

2.4G G1= 2.92 dBi ;

2.4G G2= 2.41 dBi ;

2.4G G3= 2.57 dBi ;

2.4G G4= 2.88 dBi ;

DG= 8.72 dBi

5G UNII1 G1= 6.22 dBi ;

5G UNII1 G2= 5.38 dBi ;

5G UNII1 G3= 5.56 dBi ;

5G UNII1 G4= 6.16 dBi ;

5G UNII1 G5= 6.16 dBi ;

5G UNII1 G6= 5.61 dBi ;

5G UNII1 G7= 5.86 dBi ;

5G UNII1 G8= 5.63 dBi ;

DG=14.86 dBi

5G UNII2A G1= 5.93 dBi ;

5G UNII2A G2= 5.02 dBi ;

5G UNII2A G3= 5.35 dBi ;

5G UNII2A G4= 6.01 dBi ;

5G UNII2A G5= 5.93 dBi ;

5G UNII2A G6= 5.37 dBi ;

5G UNII2A G7= 5.51 dBi ;

5G UNII2A G8= 5.23 dBi ;

DG=14.58 dBi

5G UNII2C G1= 5.44 dBi ;

5G UNII2C G2= 4.74 dBi ;

5G UNII2C G3= 5.04 dBi ;

5G UNII2C G4= 5.85 dBi ;

5G UNII2C G5= 5.5 dBi ;

5G UNII2C G6= .06 dBi ;

5G UNII2C G7= 5.27 dBi ;

5G UNII2C G8= 4.9 dBi ;

DG=14.26 dB

5G UNII4 G1= 6.28 dBi ;

5G UNII3 G2= 5.44 dBi ;

5G UNII3 G3= 5.84 dBi ;

5G UNII3 G4= 6.49 dBi ;

5G UNII3 G5= 6.42 dBi ;

5G UNII3 G6= 5.81 dBi ;

5G UNII3 G7= 6.07 dBi ;

5G UNII3 G8= 5.8 dBi ;

DG=15.06 dBi



Patch Cross-Polarized Antenna

2.4G G1= 11.67 dBi ;
2.4G G2= 11.16 dBi ;
2.4G G3= 11.23 dBi ;
2.4G G4= 11.63 dBi ;
DG=14.46 dBi

5G UNII1 G1= 14.08 dBi ;
5G UNII1 G2= 13.24 dBi ;
5G UNII1 G3= 13.42 dBi ;
5G UNII1 G4= 14.02 dBi ;
5G UNII1 G5= 14.02 dBi ;
5G UNII1 G6= 13.47 dBi ;
5G UNII1 G7= 13.72 dBi ;
5G UNII1 G8= 13.49 dBi ;
DG= 19.71 dBi

5G UNII2A G1= 13.98 dBi ;
5G UNII2A G2= 13.07 dBi ;
5G UNII2A G3= 13.4 dBi ;
5G UNII2A G4= 14.06 dBi ;
5G UNII2A G5= 13.98 dBi ;
5G UNII2A G6= 13.42 dBi ;
5G UNII2A G7= 13.56 dBi ;
5G UNII2A G8= 13.28 dBi ;
DG= 19.62 dBi

5G UNII2C G1= 13.87 dBi ;
5G UNII2C G2= 13.17 dBi ;
5G UNII2C G3= 13.47 dBi ;
5G UNII2C G4= 14.28 dBi ;
5G UNII2C G5= 13.93 dBi ;
5G UNII2C G6= 13.49 dBi ;
5G UNII2C G7= 13.7 dBi ;
5G UNII2C G8= 13.33 dBi ;
DG= 19.68 dBi

5G UNII3 G1= 13.97 dBi ;
5G UNII3 G2= 13.13 dBi ;
5G UNII3 G3= 13.53 dBi ;
5G UNII3 G4= 14.18 dBi ;
5G UNII3 G5= 14.11 dBi ;
5G UNII3 G6= 13.5 dBi ;
5G UNII3 G7= 13.76 dBi ;
5G UNII3 G8= 13.49 dBi ;
DG= 19.71 dBi



1.1.3 Mode Test Duty Cycle

For Antenna Set 1 (Dipole)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.95	0.22	1.433m	1k
802.11ax HEW20	0.952	0.21	5.448m	300
802.11ax HEW40	0.939	0.27	5.448m	300
802.11ax HEW80	0.933	0.3	5.448m	300

For Antenna Set 2 (Patch)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.95	0.22	1.433m	1k
802.11ax HEW20	0.952	0.21	5.448m	300
802.11ax HEW40	0.939	0.27	5.448m	300
802.11ax HEW80	0.933	0.3	5.448m	300

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	<input checked="" type="checkbox"/>	Outdoor P2M	<input checked="" type="checkbox"/>	Indoor P2M
	<input type="checkbox"/>	Fixed P2P	<input type="checkbox"/>	Client
	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Channel Puncturing Function	<input type="checkbox"/>	Supported	<input checked="" type="checkbox"/>	Unsupported
Support RU	<input checked="" type="checkbox"/>	Full RU	<input type="checkbox"/>	Partial RU
Test Software Version	QLibDemo-MSVC10_TX power[QCA TxPower Support WIFI 6E]			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ FCC KDB 789033 D02 v02r01

The following reference test guidance is not within the scope of accreditation of TAF.

- ◆ FCC KDB 662911 D01 v02r01
- ◆ FCC KDB 412172 D01 v01r01
- ◆ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Owen Hsu	23.4-24.5 / 52-58	Oct. 12, 2022~ Nov. 02, 2022
Radiated<1GHz and Radiated Co-location	03CH05-CB	Gordon Hung	23.3-24.6 / 58-62	Oct. 07, 2022~ Nov. 23, 2022
Radiated>1GHz	03CH01-CB	Gordon Hung	23.8-24.9 / 55-58	Oct. 07, 2022~ Nov. 23, 2022
	03CH02-CB		24.2-25.3 / 56-59	
AC Conduction	CO02-CB	Joe Chu	23-24 / 56-57	Nov. 02, 2022



1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Antenna Set 1 (Dipole)
For UNII 1 indoor / UNII 3 indoor + outdoor

Mode	Power Setting
802.11a_Nss1,(6Mbps)_8TX	-
5180MHz	12
5200MHz	12
5240MHz	12
5745MHz	19
5785MHz	19
5825MHz	19
802.11ax HEW20_Nss1,(MCS0)_8TX	-
5180MHz	12
5200MHz	12
5240MHz	12
5745MHz	17
5785MHz	17.5
5825MHz	17.5
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-
5180MHz	12
5200MHz	12
5240MHz	11.5
5745MHz	11.5
5785MHz	12
5825MHz	11.5
802.11ax HEW40_Nss1,(MCS0)_8TX	-
5190MHz	15
5230MHz	15
5755MHz	18.5
5795MHz	19.5
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-
5190MHz	12
5230MHz	11.5
5755MHz	11.5
5795MHz	11.5
802.11ax HEW80_Nss1,(MCS0)_8TX	-
5210MHz	14.5
5775MHz	16



Mode	Power Setting
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-
5210MHz	11.5
5775MHz	11.5

For UNII 1 Outdoor:

Mode	Power Setting
802.11a_Nss1,(6Mbps)_8TX	-
5180MHz	12
5200MHz	12
5240MHz	12
802.11ax HEW20_Nss1,(MCS0)_8TX	-
5180MHz	12
5200MHz	12
5240MHz	12
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-
5180MHz	6
5200MHz	6
5240MHz	6
802.11ax HEW40_Nss1,(MCS0)_8TX	-
5190MHz	14.5
5230MHz	14.5
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-
5190MHz	6
5230MHz	6
802.11ax HEW80_Nss1,(MCS0)_8TX	-
5210MHz	14
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-
5210MHz	6



**For Antenna Set 2 (Patch)
For UNII 1 indoor / UNII 3 indoor + outdoor**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_8TX	-
5180MHz	7
5200MHz	6.5
5240MHz	6.5
5745MHz	9.5
5785MHz	9.5
5825MHz	9.5
802.11ax HEW20_Nss1,(MCS0)_8TX	-
5180MHz	7
5200MHz	6.5
5240MHz	6.5
5745MHz	9.5
5785MHz	9.5
5825MHz	9.5
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-
5180MHz	7
5200MHz	6.5
5240MHz	6.5
5745MHz	7
5785MHz	7.5
5825MHz	7
802.11ax HEW40_Nss1,(MCS0)_8TX	-
5190MHz	9
5230MHz	9
5755MHz	12.5
5795MHz	13
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-
5190MHz	7
5230MHz	7
5755MHz	7.5
5795MHz	7.5
802.11ax HEW80_Nss1,(MCS0)_8TX	-
5210MHz	11.5
5775MHz	12.5
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-
5210MHz	7
5775MHz	7.5



For UNII 1 Outdoor

Mode	Power Setting
802.11a_Nss1,(6Mbps)_8TX	-
5180MHz	3.5
5200MHz	3.5
5240MHz	3.5
802.11ax HEW20_Nss1,(MCS0)_8TX	-
5180MHz	3.5
5200MHz	3.5
5240MHz	3.5
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-
5180MHz	3
5200MHz	3
5240MHz	3
802.11ax HEW40_Nss1,(MCS0)_8TX	-
5190MHz	7
5230MHz	7
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-
5190MHz	3
5230MHz	3
802.11ax HEW80_Nss1,(MCS0)_8TX	-
5210MHz	7
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-
5210MHz	3

- Note: 1. Evaluated HEW20/HEW40/HEW80 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80 mode are the same or lower than HEW20/HEW40/HEW80.
2. The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been selected to execute all tests. The beamforming mode evaluates the output power only.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + Antenna Set 1 (4*Dual Band+4*Single Band Ant.) + PoE 1
2	EUT + Antenna Set 2 + antenna cable 1 + PoE 1
3	EUT + Antenna Set 2 + antenna cable 1 + 2 + PoE 1

For operating mode 1 is the worst case and it was record in this test report.

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains
1	EUT + Antenna Set 1 (Single Band Ant.)+ PoE 2
2	EUT + Antenna Set 2 + antenna cable 1 + PoE 2
3	EUT + Antenna Set 1 (Single Band Ant. / Outdoor UNII 1 only) + PoE 2
4	EUT + Antenna Set 2 + antenna cable 1 (Outdoor UNII 1 only) + PoE 2



The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
After evaluating, the worst axis was found as below. So the measurement will follow this same test configuration.	
1	EUT in Y axis+ WLAN 2.4GHz + Antenna Set 1 (4*Dual Band+4*Single Band Ant.) + PoE 2
2	EUT in Z axis+ WLAN 5GHz + Antenna Set 1 (4*Dual Band+4*Single Band Ant.) + PoE 2
3	EUT in Y axis+ WLAN 2.4GHz + Antenna Set 2 + antenna cable 1 + PoE 2
4	EUT in Z axis+ WLAN 5GHz + Antenna Set 2 + antenna cable 1 + PoE 2
5	EUT in Y axis+ WLAN 2.4GHz + Antenna Set 2 + antenna cable 1 + 2 + PoE 2
6	EUT in Z axis+ WLAN 5GHz + Antenna Set 2 + antenna cable 1 + 2 + PoE 2
Mode 2 has been evaluated to be the worst case among Mode 1~6, thus measurement for Mode 7 will follow this same test mode.	
7	EUT in Z axis+ WLAN 5GHz + Antenna Set 1 (4*Dual Band+4*Single Band Ant.) + Surge protector + PoE 2
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
After evaluating, the worst axis was found as below. So the measurement will follow this same test configuration.	
1	EUT in Y axis + Antenna Set 1 (Single Band Ant.) bandedge + PoE 2, EUT in Z axis + Antenna Set 1 (Single Band Ant.) Harmonic + PoE 2
2	EUT in Z axis + Antenna Set 2 + antenna cable 1 + PoE 2

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
After evaluating, the worst axis was found as below. So the measurement will follow this same test configuration.	
1	EUT in Z axis + Antenna Set 1 (4*Dual Band+4*Single Band Ant.) + PoE 2
2	EUT in Z axis + Antenna Set 2 + antenna cable 1+ PoE 2
Refer to Appendix F for Radiated Emission Co-location.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT + Antenna Set 1 (4*Dual Band+4*Single Band Ant.) + PoE 2
2	EUT + Antenna Set 2 + antenna cable 1+ PoE 2
Refer to Sporton Test Report No.: FA281719 for Co-location RF Exposure Evaluation.	

Note: The PoE is for measurement only, would not be marketed.

PoE information as below:

Power	Brand	Model
PoE 1	PHIHONG	POE60U-1BT-X
PoE 2	DELTA	ADH-45AR B

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories
N type antenna cable1*1: shielded, 2m (for set 2 antenna use only)
N type extension antenna cable 2*1: shielded, 10m (for set 2 antenna and must be used with N type antenna cable1 only).
External surge protectors*8
Sealing Collar*1
Ground cable*1: shielded, 1.75m
Mounting Base*1
Pole-mount bracket*1



2.5 Support Equipment

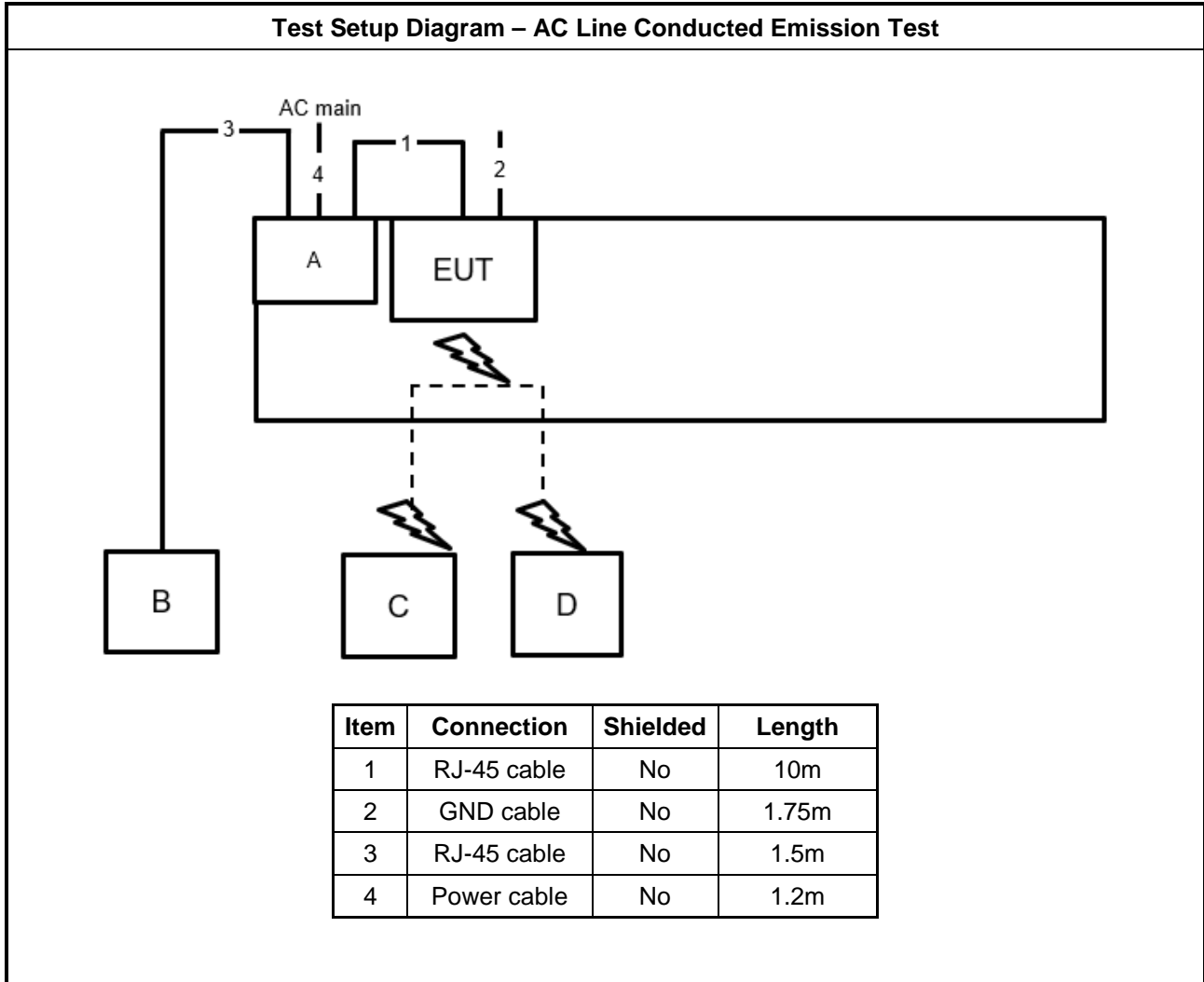
For AC Conduction:

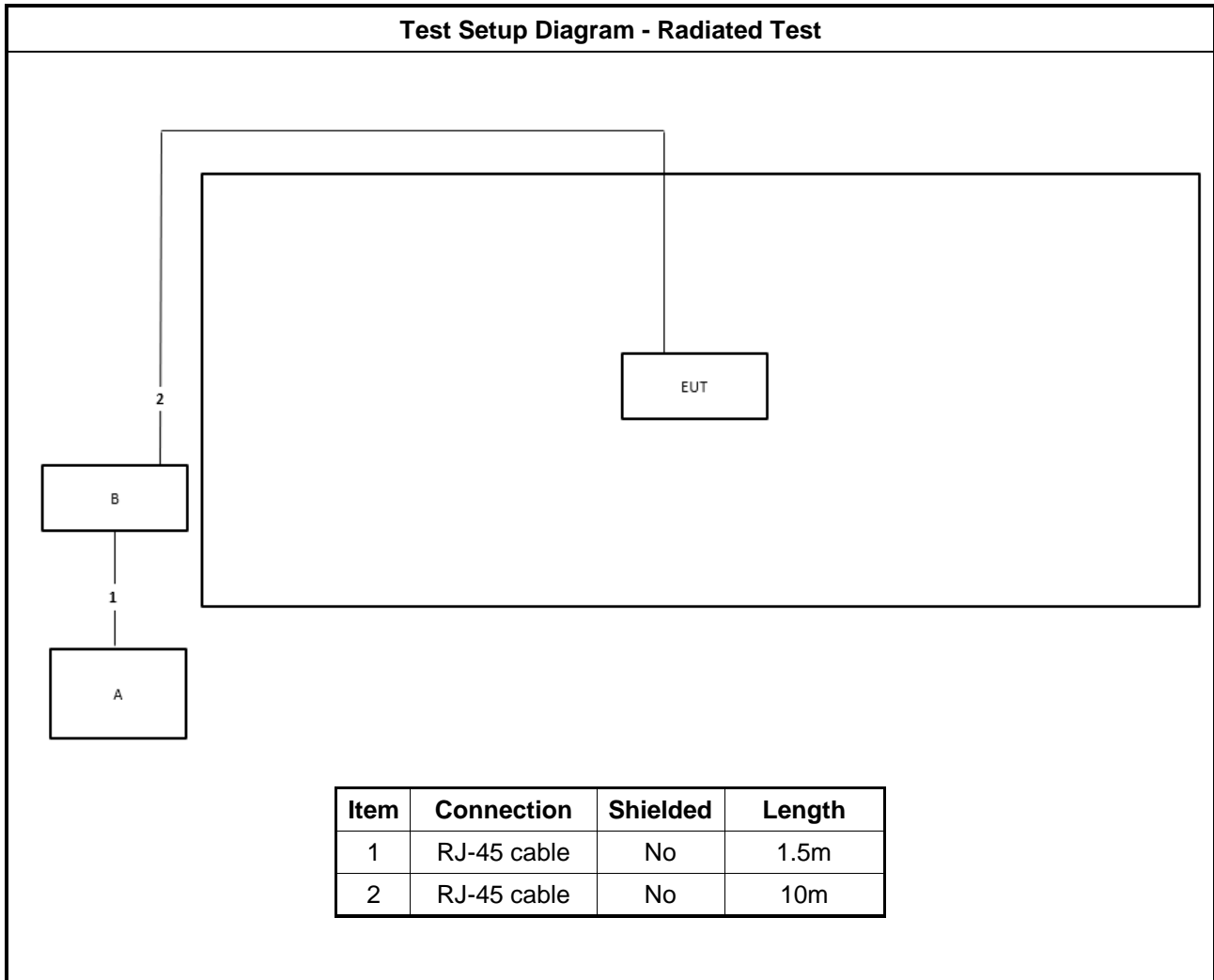
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 1	PHIHONG	POE60U-1BT-X	N/A
B	LAN NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A

For Radiated and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE 2	DELTA	ADH-45AR B	N/A

2.6 Test Setup Diagram







3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

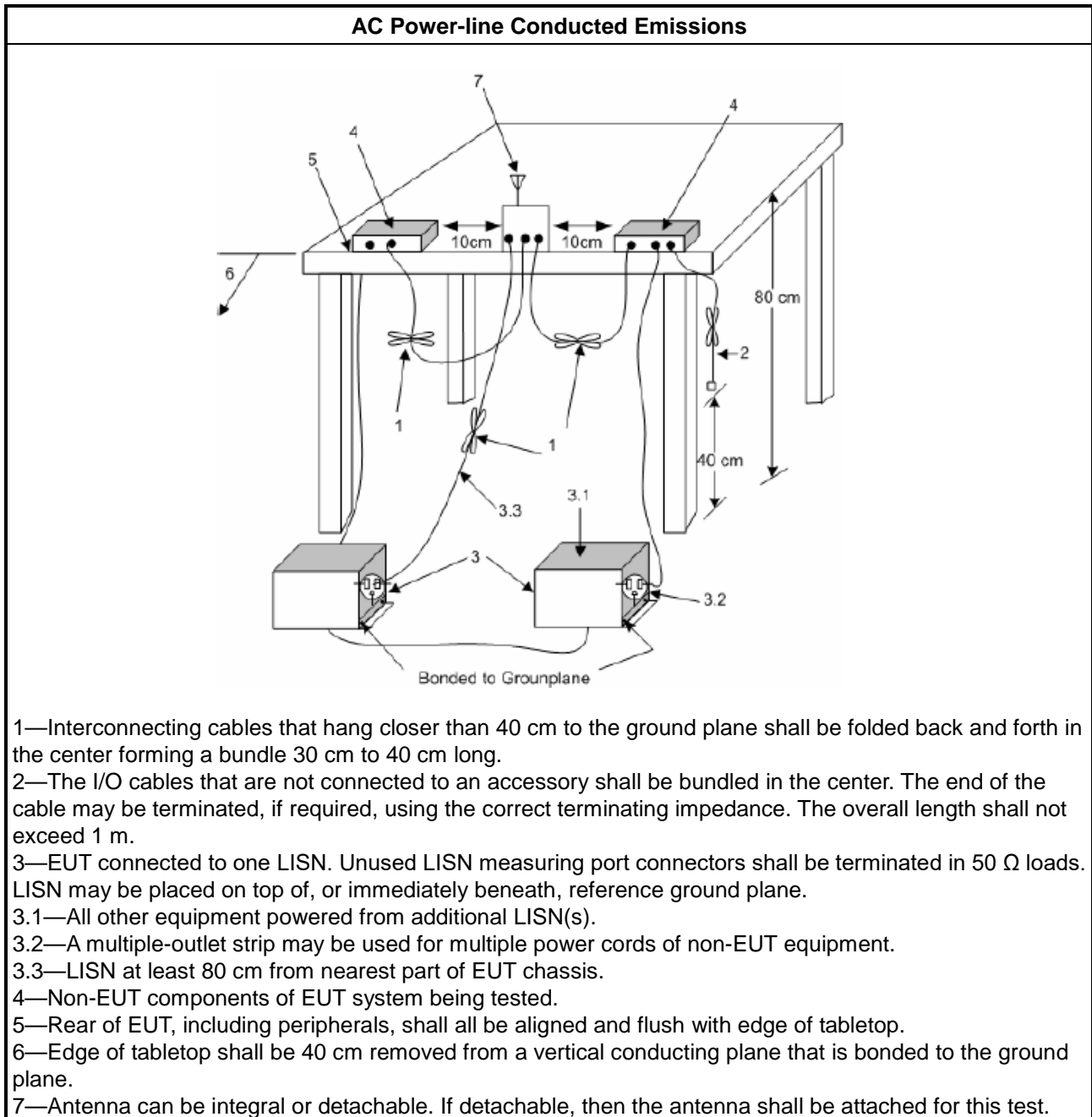
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth $\geq 500\text{kHz}$.
LE-LAN Devices	
<input type="checkbox"/>	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq 500\text{kHz}$.

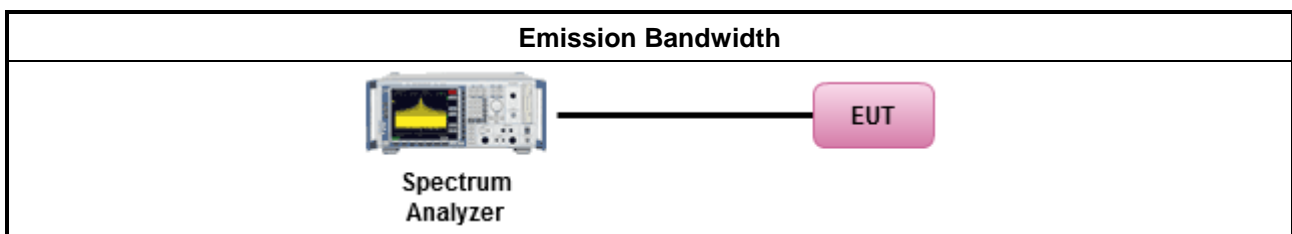
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method							
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30px;"><input checked="" type="checkbox"/></td> <td>Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.</td> </tr> </table> 		<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.	<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.	<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.						
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.						
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.						

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Output Power

3.3.1 Limit

Maximum Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125mW$ [21dBm] Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

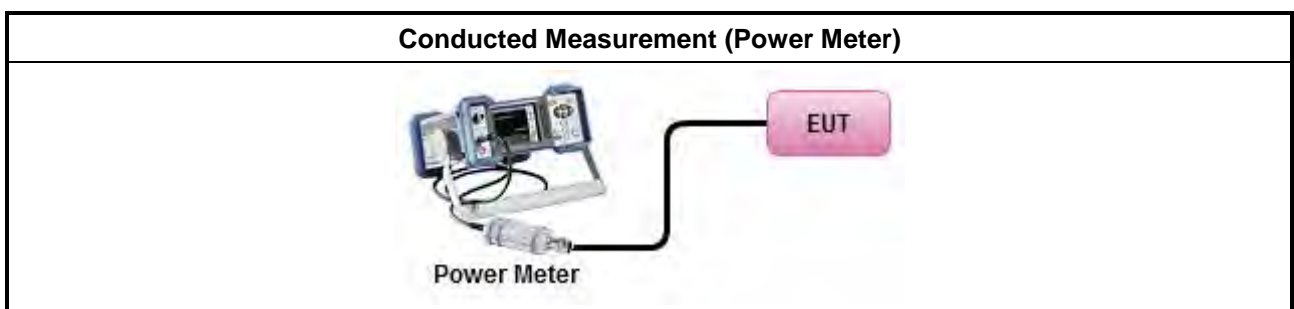
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
	Average over on/off periods with duty factor
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
<input checked="" type="checkbox"/>	For conducted measurement.
	<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
<input type="checkbox"/>	For radiated measurement.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. ▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. ▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. ▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. ▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
	<ul style="list-style-type: none"> ▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 ($\theta-8$) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 ($\theta-40$) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
<p>PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

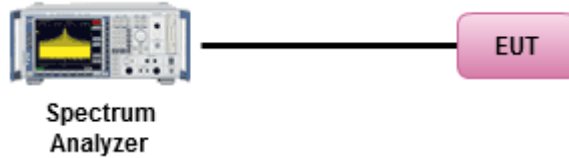


3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: 	
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input checked="" type="checkbox"/> For conducted measurement.	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: 	
<input checked="" type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
<input type="checkbox"/>	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
<input type="checkbox"/>	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ 	
<input type="checkbox"/> For radiated measurement.	
<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" 	
<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. 	

Test Method

- Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup**Conducted Measurement****3.4.5 Test Result of Power Spectral Density**

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz 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: Test distance for frequencies at or above 30 MHz, 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).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.



Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
<input checked="" type="checkbox"/> 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input type="checkbox"/> 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input type="checkbox"/> 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input checked="" type="checkbox"/> 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

3.5.2 Measuring Instruments

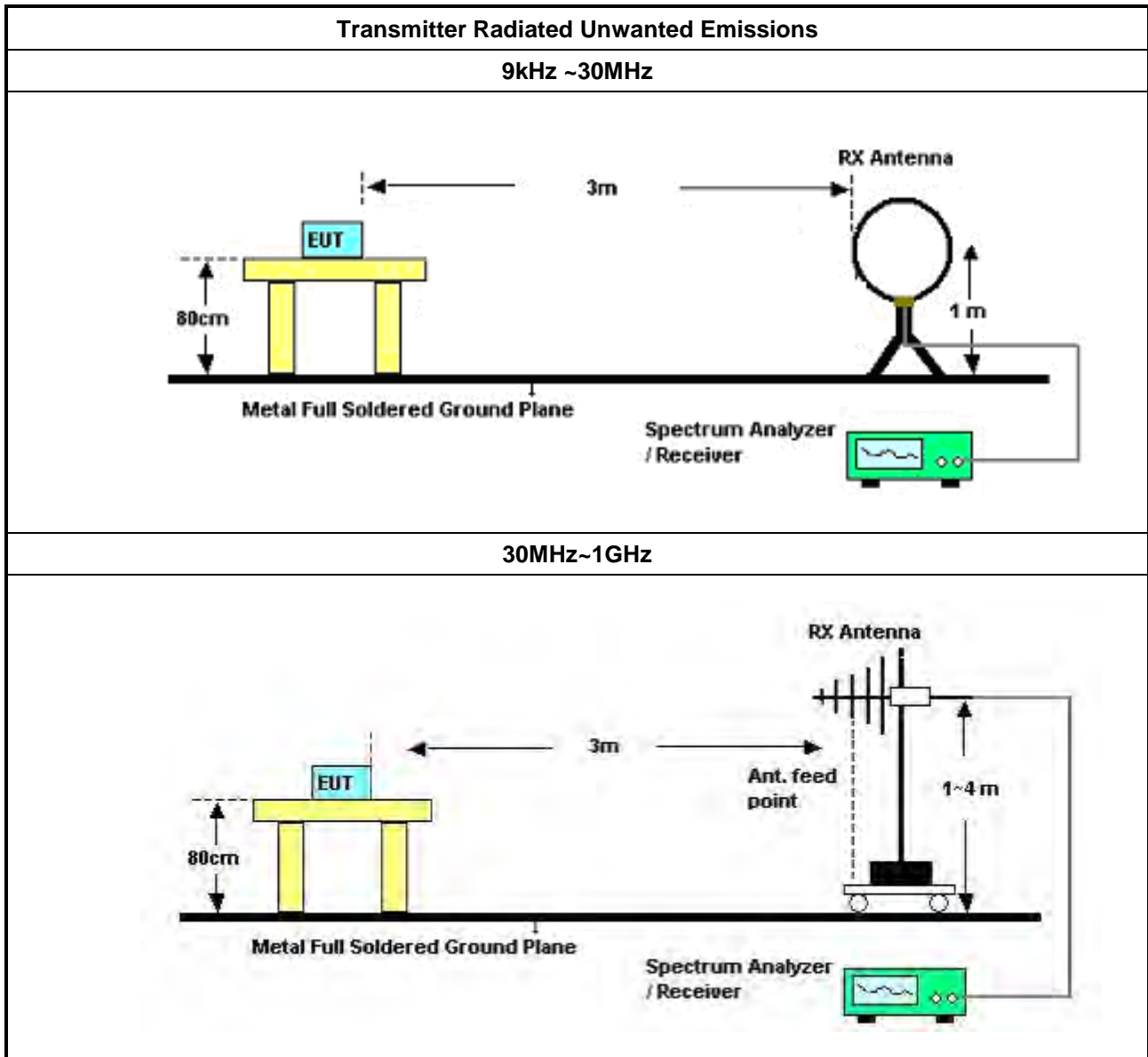
Refer a test equipment and calibration data table in this test report.

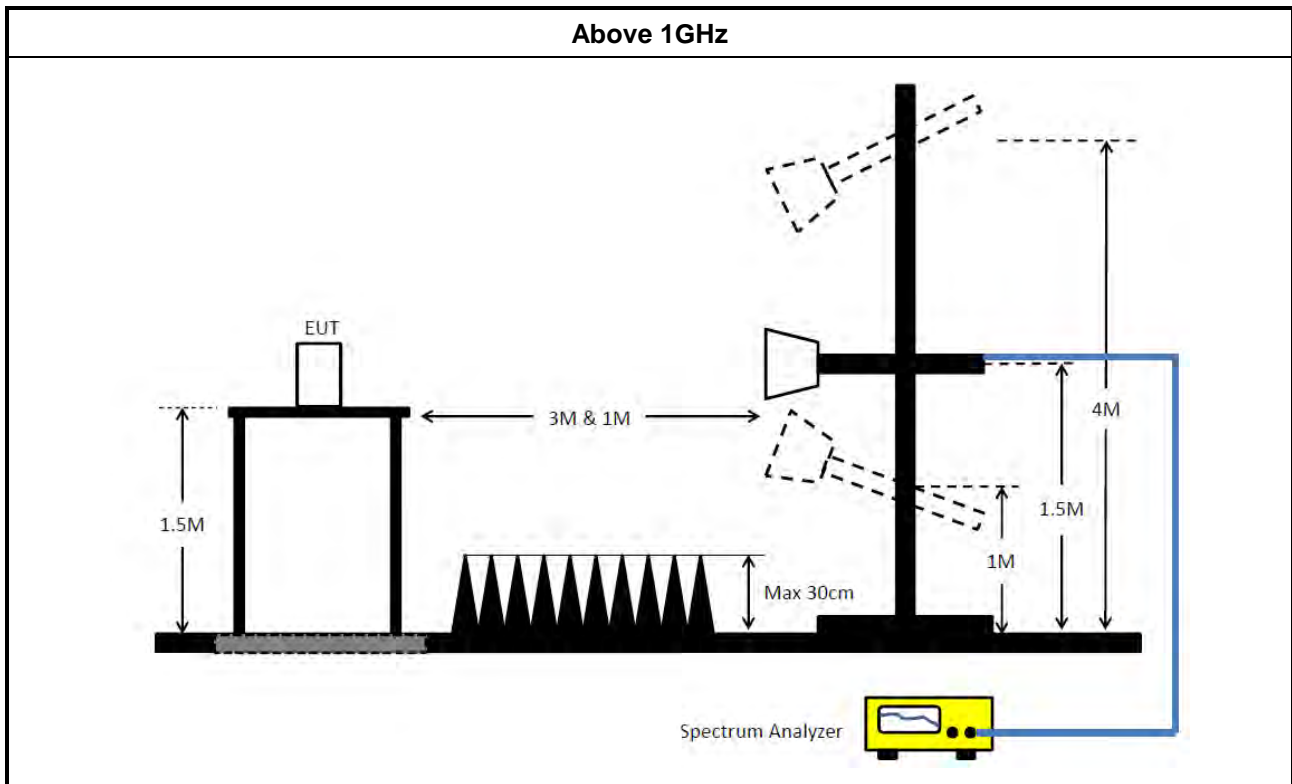


3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ 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. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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). 	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For radiated measurement. 	
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
<ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level. 	
<ul style="list-style-type: none"> ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. 	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 22, 2021	Dec. 21, 2022	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 06, 2022	May 05, 2023	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO02-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 06, 2022	Nov. 05, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	Aug. 23 2022	Aug. 22 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREEN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2022	Nov. 03, 2023	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 19, 2022	May 18, 2023	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH01-CB)
Pre-Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	Aug. 23 2022	Aug. 22 2023	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSP	100593	9kHz~40GHz	Apr. 08, 2022	Apr. 07, 2023	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH02-CB)
Pre-Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	Aug. 23 2022	Aug. 22 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH03-CB)

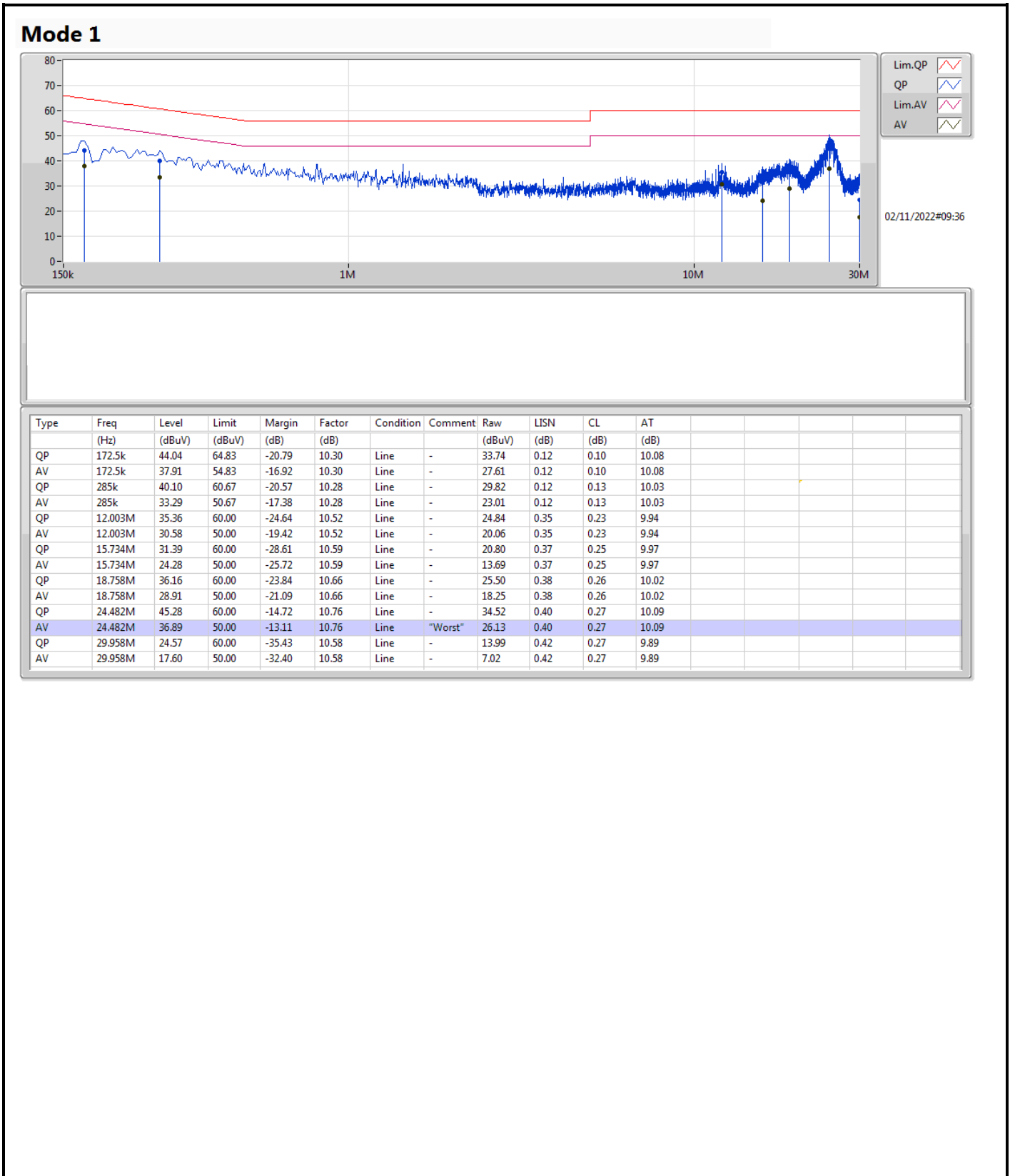
Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

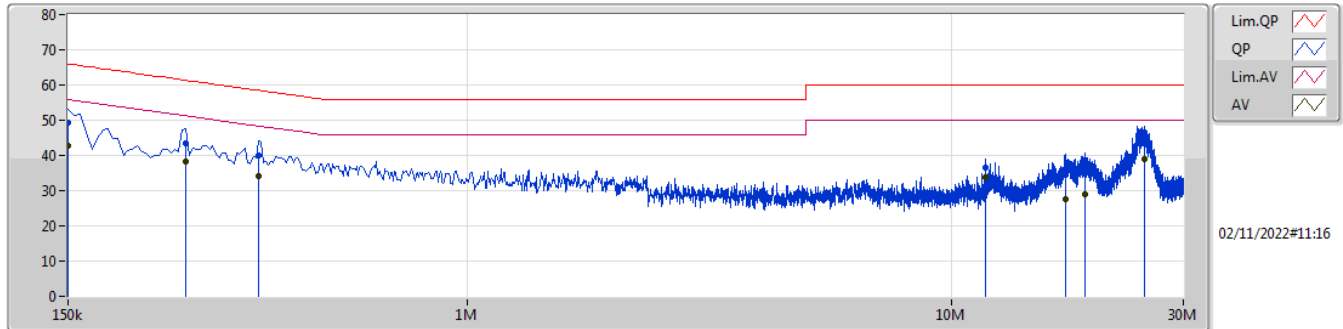


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	24.923M	38.99	50.00	-11.01	Neutral



Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	150k	49.16	66.00	-16.84	10.33	Neutral	-	38.83	0.16	0.08	10.09
AV	150k	42.60	56.00	-13.40	10.33	Neutral	-	32.27	0.16	0.08	10.09
QP	262.5k	43.51	61.35	-17.84	10.33	Neutral	-	33.18	0.16	0.13	10.04
AV	262.5k	38.29	51.35	-13.06	10.33	Neutral	-	27.96	0.16	0.13	10.04
QP	370.5k	39.98	58.49	-18.51	10.33	Neutral	-	29.65	0.16	0.15	10.02
AV	370.5k	34.07	48.49	-14.42	10.33	Neutral	-	23.74	0.16	0.15	10.02
QP	11.751M	36.59	60.00	-23.41	10.47	Neutral	-	26.12	0.30	0.23	9.94
AV	11.751M	33.87	50.00	-16.13	10.47	Neutral	-	23.40	0.30	0.23	9.94
QP	17.102M	34.51	60.00	-25.49	10.56	Neutral	-	23.95	0.31	0.25	10.00
AV	17.102M	27.65	50.00	-22.35	10.56	Neutral	-	17.09	0.31	0.25	10.00
QP	18.839M	36.09	60.00	-23.91	10.60	Neutral	-	25.49	0.32	0.26	10.02
AV	18.839M	28.97	50.00	-21.03	10.60	Neutral	-	18.37	0.32	0.26	10.02
QP	24.923M	45.44	60.00	-14.56	10.72	Neutral	-	34.72	0.35	0.27	10.10
AV	24.923M	38.99	50.00	-11.01	10.72	Neutral	"Worst"	28.27	0.35	0.27	10.10



For UNII 1 indoor + UNII 3 indoor + outdoor

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	19.83M	16.522M	16M5D1D	18.81M	16.342M
802.11ax HEW20_Nss1,(MCS0)_8TX	21.99M	19.13M	19M1D1D	20.55M	18.741M
802.11ax HEW40_Nss1,(MCS0)_8TX	41.4M	38.381M	38M4D1D	40.44M	37.601M
802.11ax HEW80_Nss1,(MCS0)_8TX	82.44M	78.201M	78M2D1D	81.36M	77.121M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	16.32M	24.408M	24M4D1D	14.94M	16.462M
802.11ax HEW20_Nss1,(MCS0)_8TX	19.14M	19.34M	19M3D1D	15.66M	18.771M
802.11ax HEW40_Nss1,(MCS0)_8TX	38.1M	73.163M	73M2D1D	35.52M	38.021M
802.11ax HEW80_Nss1,(MCS0)_8TX	78M	78.081M	78M1D1D	73.92M	77.121M

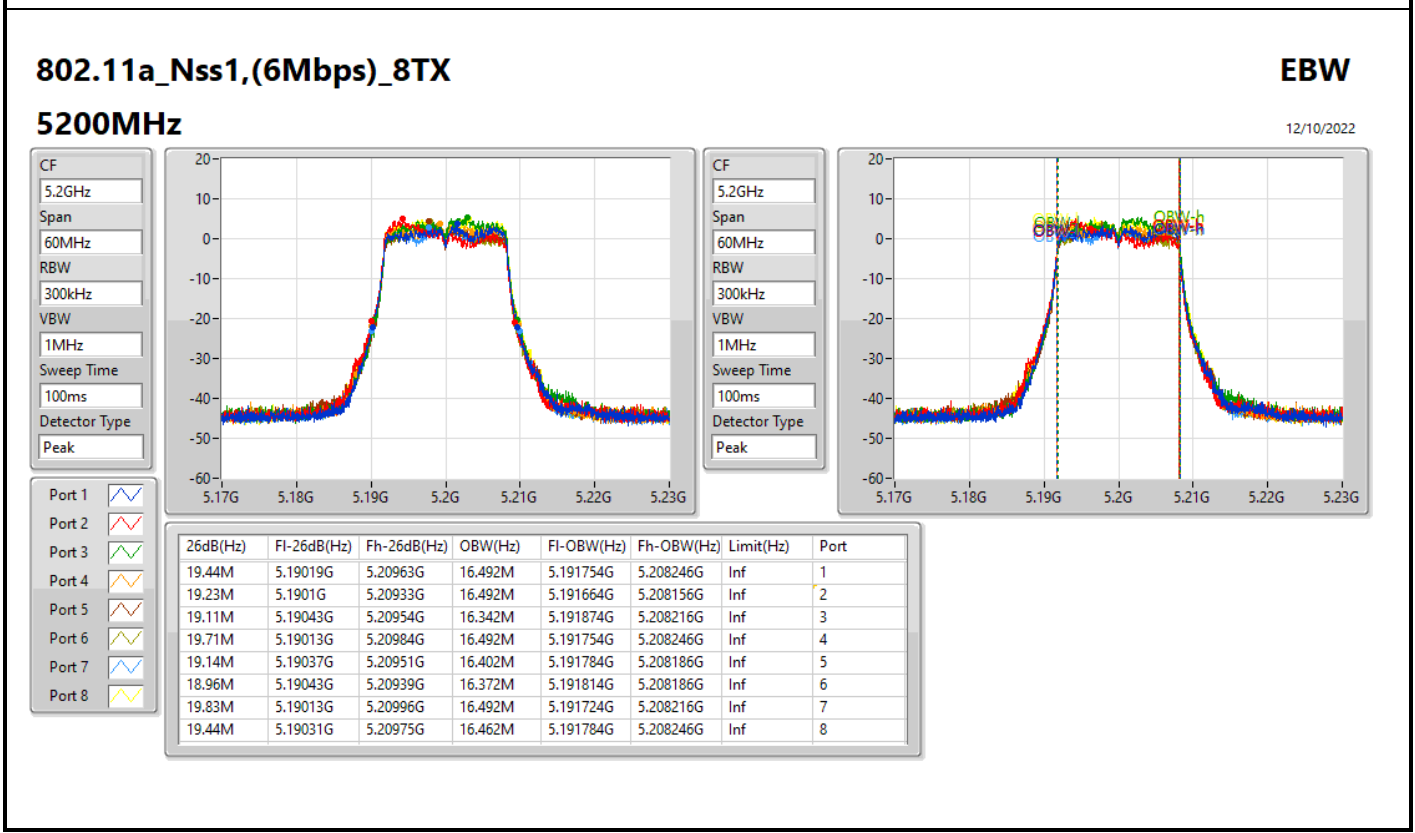
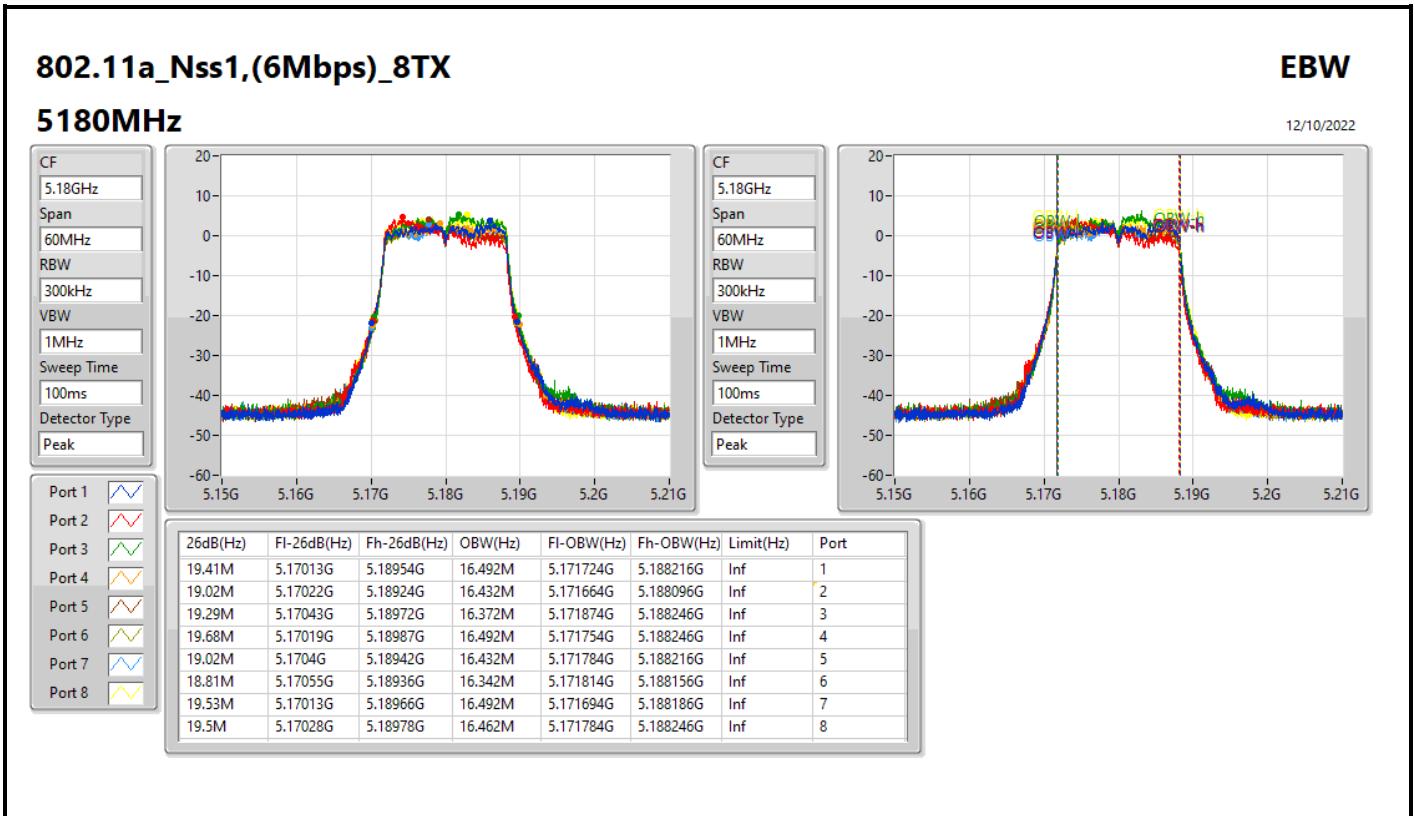
Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.41M	16.492M	19.02M	16.432M	19.29M	16.372M	19.68M	16.492M	19.02M	16.432M	18.81M	16.342M	19.53M	16.492M	19.5M	16.462M
5200MHz	Pass	Inf	19.44M	16.492M	19.23M	16.492M	19.11M	16.342M	19.71M	16.492M	19.14M	16.402M	18.96M	16.372M	19.83M	16.492M	19.44M	16.462M
5240MHz	Pass	Inf	19.23M	16.462M	19.41M	16.402M	19.65M	16.522M	19.44M	16.492M	18.93M	16.342M	19.26M	16.462M	19.53M	16.492M	19.35M	16.402M
5745MHz	Pass	500k	15.66M	20.27M	15.63M	18.321M	15.45M	20.84M	15.69M	19.79M	15.72M	16.552M	16.32M	16.792M	15.69M	16.492M	16.26M	16.492M
5785MHz	Pass	500k	14.94M	22.129M	16.32M	24.408M	15.66M	18.861M	15.63M	17.301M	15.9M	16.552M	16.32M	16.672M	15.69M	16.642M	16.32M	16.522M
5825MHz	Pass	500k	15.66M	23.748M	15.69M	17.991M	15.66M	17.511M	16.29M	17.331M	15.42M	16.462M	16.32M	16.612M	16.08M	16.702M	16.29M	16.492M
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.88M	18.891M	20.79M	18.771M	21M	18.981M	21.33M	18.981M	20.88M	18.861M	21M	18.741M	21.78M	19.04M	21.06M	18.861M
5200MHz	Pass	Inf	20.91M	18.741M	21.99M	19.13M	21.48M	18.981M	21.18M	18.921M	21.42M	19.01M	20.55M	18.831M	21.18M	18.981M	21.42M	19.01M
5240MHz	Pass	Inf	21.75M	19.1M	21.18M	18.921M	20.91M	18.741M	21.12M	18.891M	21.24M	18.981M	21.15M	19.01M	21.48M	19.07M	21.45M	18.921M
5745MHz	Pass	500k	18.75M	19.04M	15.66M	18.771M	19.02M	19.34M	18.69M	19.04M	16.92M	18.951M	16.53M	18.861M	18.93M	18.981M	18.63M	18.921M
5785MHz	Pass	500k	17.97M	18.831M	19.14M	19.34M	18.93M	19.34M	18.63M	19.07M	18.45M	18.951M	16.56M	18.831M	18.81M	19.01M	18.93M	18.981M
5825MHz	Pass	500k	17.07M	18.951M	18.87M	19.25M	18.42M	18.981M	18.9M	19.1M	16.92M	18.861M	18.84M	19.04M	18.48M	18.861M	18.87M	18.921M
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.68M	37.601M	41.22M	38.261M	40.74M	38.021M	40.68M	37.901M	40.86M	37.841M	40.44M	37.841M	40.68M	37.901M	41.16M	38.081M
5230MHz	Pass	Inf	40.92M	37.661M	41.4M	38.381M	40.8M	38.081M	40.56M	37.901M	40.68M	37.841M	40.98M	37.841M	40.8M	37.781M	41.1M	37.961M
5755MHz	Pass	500k	37.8M	47.736M	38.1M	47.016M	36.12M	50.495M	37.86M	43.898M	35.52M	38.021M	38.1M	38.321M	36.48M	38.021M	37.86M	38.201M
5795MHz	Pass	500k	38.1M	65.307M	38.04M	73.163M	37.92M	60.03M	37.62M	53.853M	37.8M	38.381M	38.04M	38.261M	37.26M	38.381M	37.98M	38.321M
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.32M	77.361M	82.44M	78.201M	82.32M	77.361M	82.08M	77.481M	82.08M	77.241M	81.36M	77.121M	82.2M	77.361M	81.96M	77.481M
5775MHz	Pass	500k	75.24M	77.841M	78M	78.081M	75.48M	77.601M	76.56M	77.721M	75.84M	77.481M	77.52M	77.841M	73.92M	77.121M	77.4M	77.481M

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

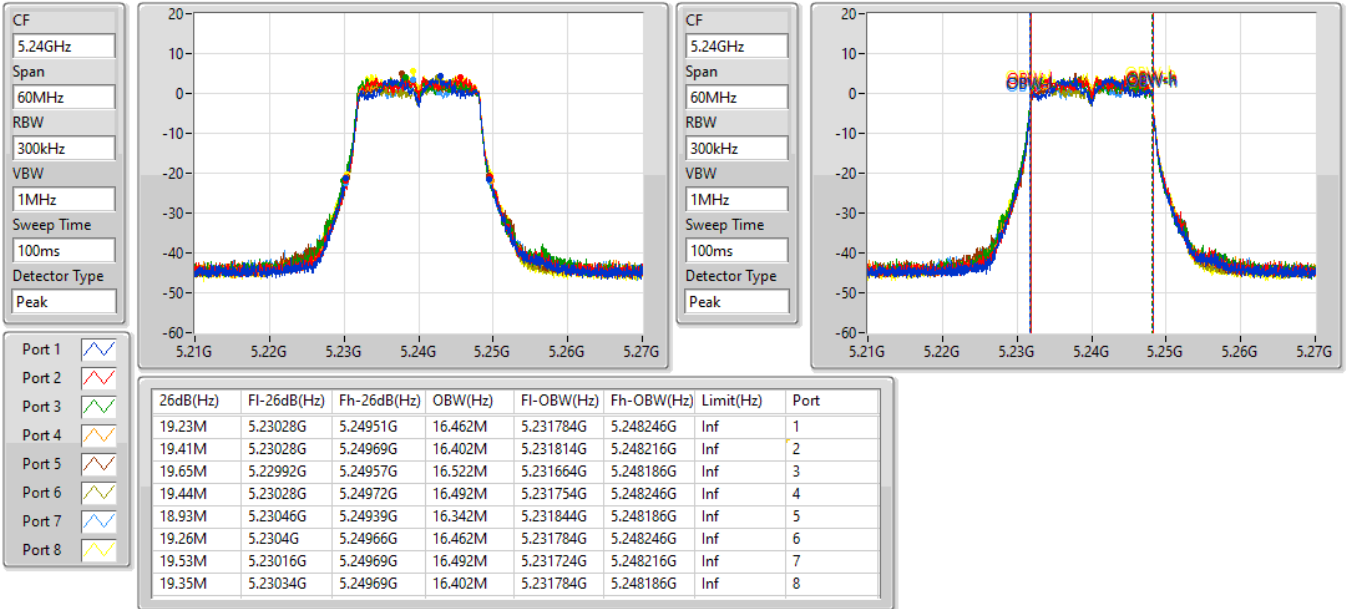


802.11a_Nss1,(6Mbps)_8TX

EBW

5240MHz

12/10/2022

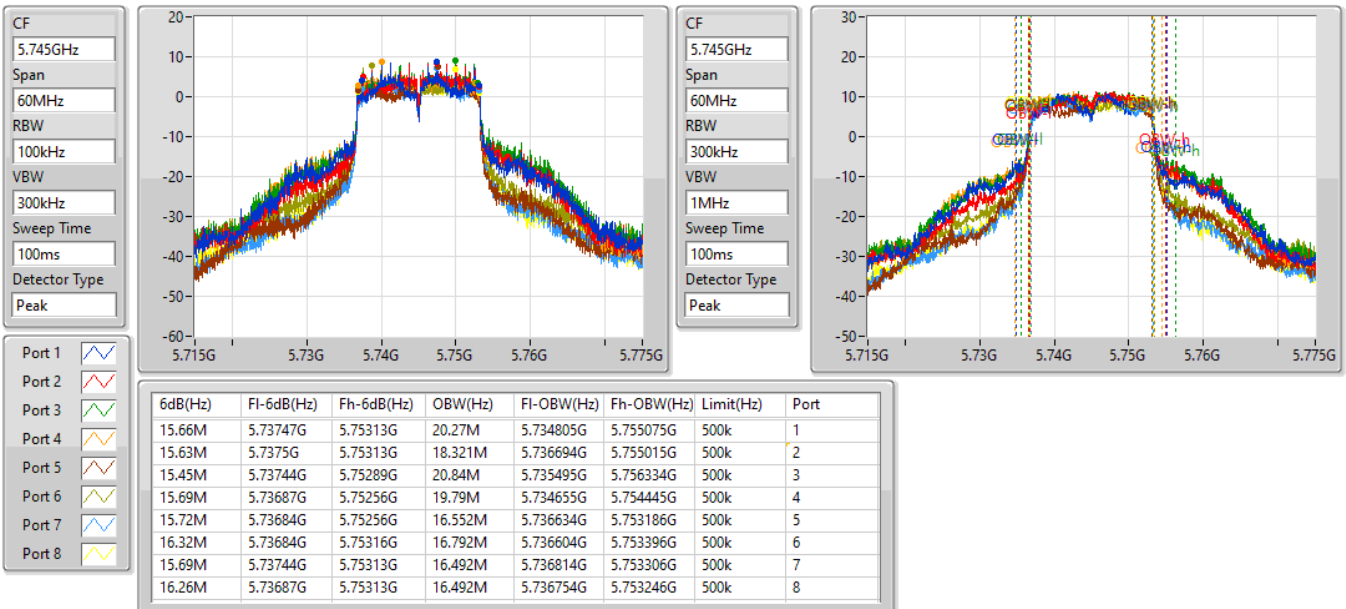


802.11a_Nss1,(6Mbps)_8TX

EBW

5745MHz

12/10/2022

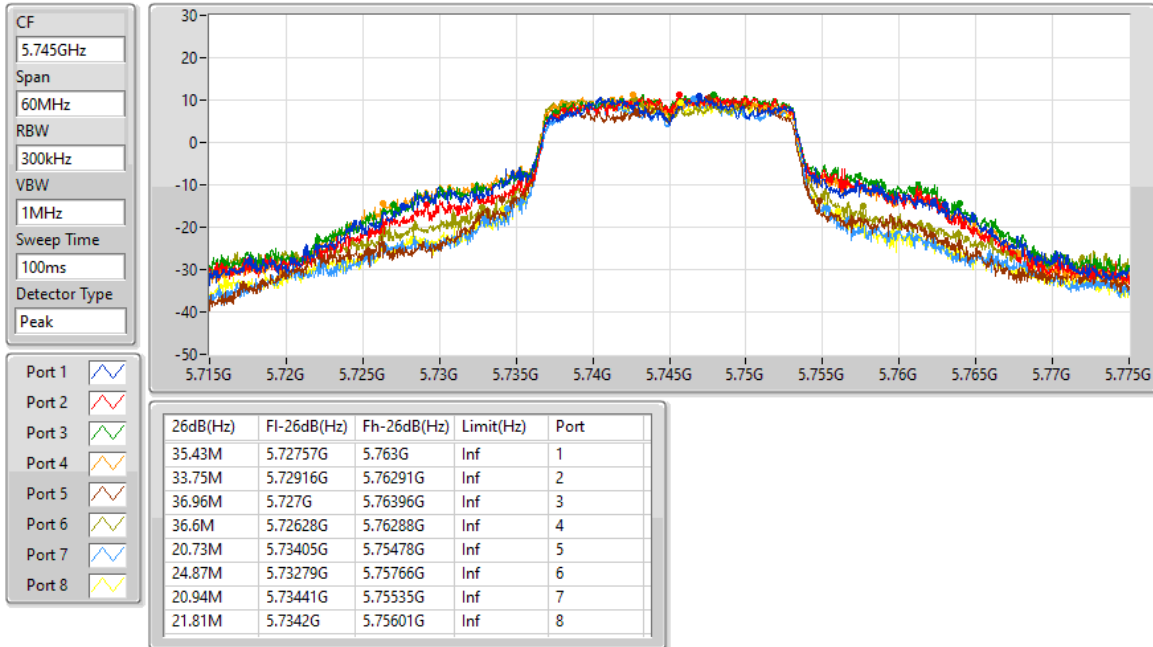


802.11a_Nss1,(6Mbps)_8TX

EBW

5745MHz

12/10/2022

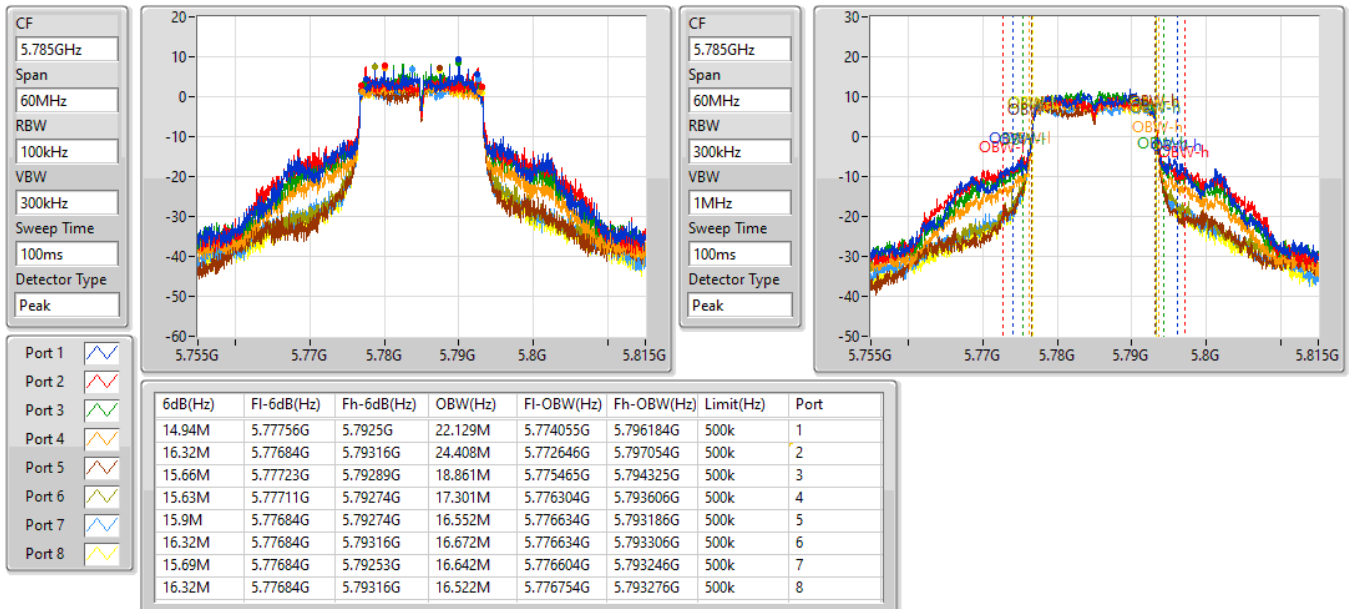


802.11a_Nss1,(6Mbps)_8TX

EBW

5785MHz

12/10/2022

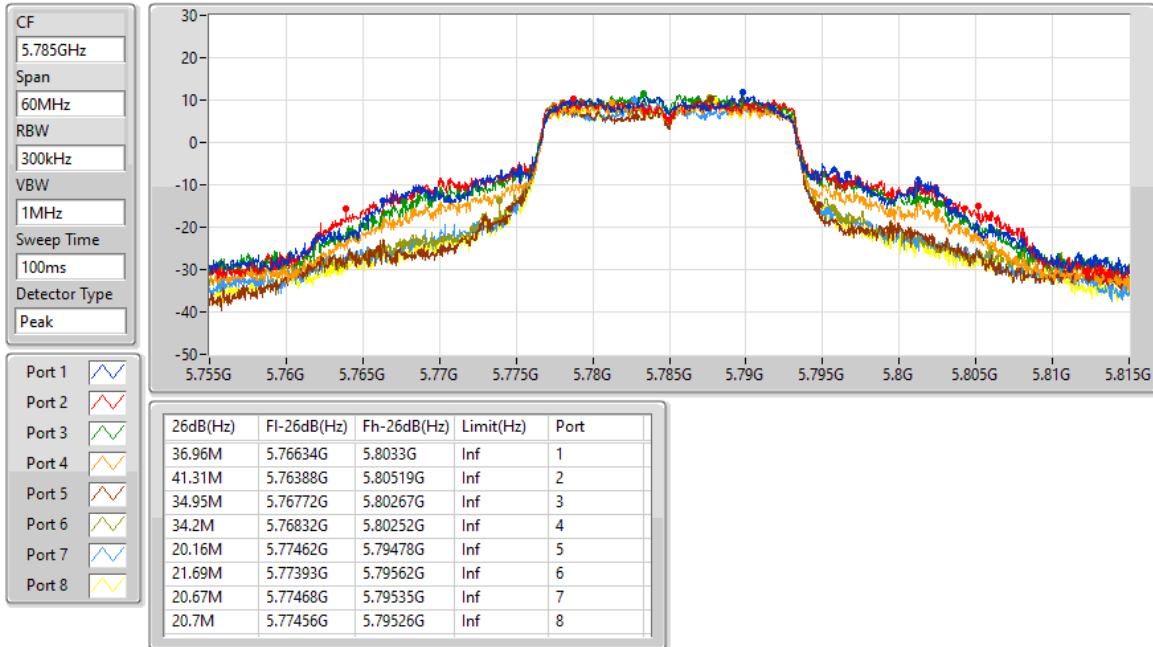


802.11a_Nss1,(6Mbps)_8TX

EBW

5785MHz

12/10/2022

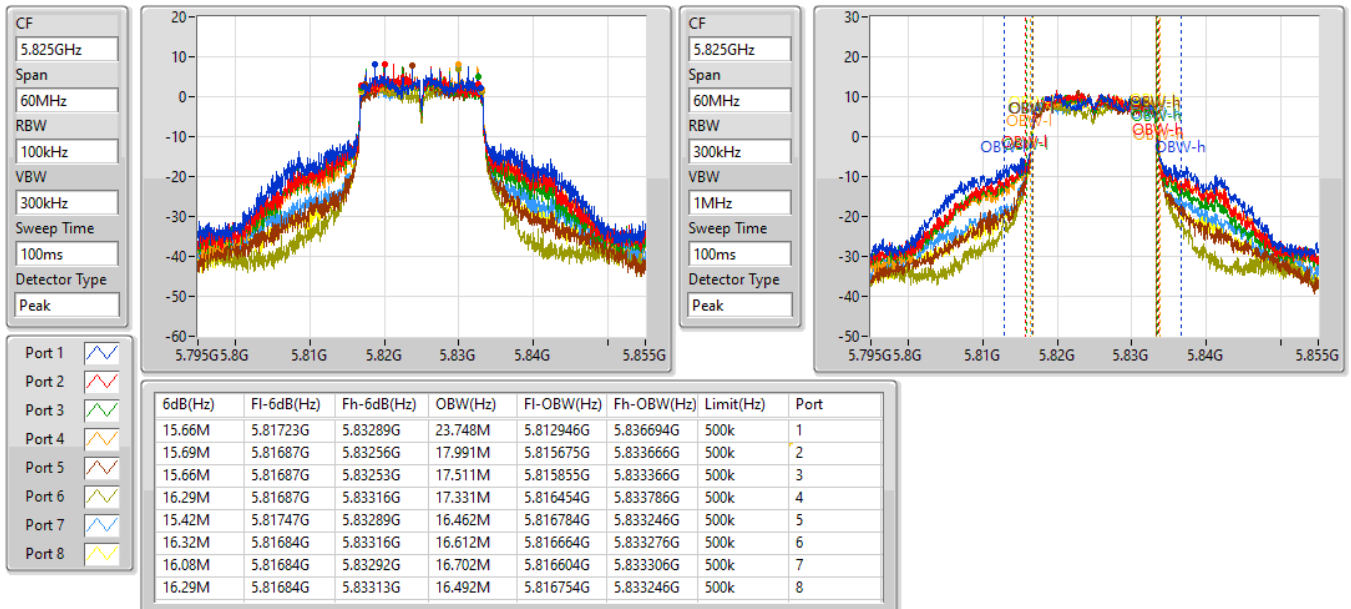


802.11a_Nss1,(6Mbps)_8TX

EBW

5825MHz

12/10/2022



802.11a_Nss1,(6Mbps)_8TX

EBW

5825MHz

12/10/2022

CF
5.825GHz

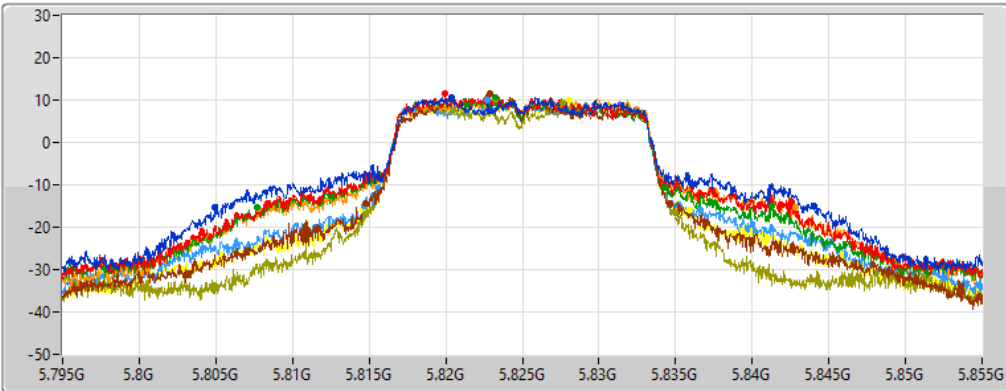
Span
60MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

Port 5

Port 6

Port 7

Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
39.06M	5.80496G	5.84402G	Inf	1
34.2M	5.80835G	5.84255G	Inf	2
33.6M	5.80766G	5.84126G	Inf	3
35.1M	5.80775G	5.84285G	Inf	4
19.89M	5.81477G	5.83466G	Inf	5
20.19M	5.81474G	5.83493G	Inf	6
21.96M	5.81468G	5.83664G	Inf	7
21.36M	5.81459G	5.83595G	Inf	8

802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5180MHz

12/10/2022

CF
5.18GHz

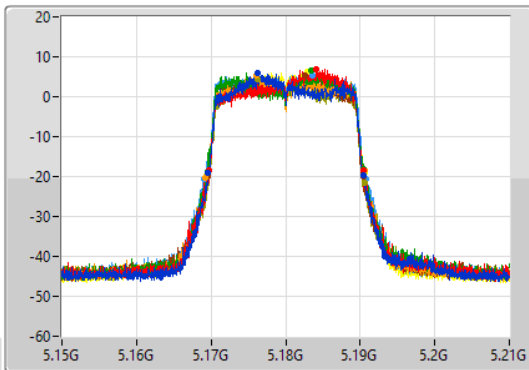
Span
60MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



CF
5.18GHz

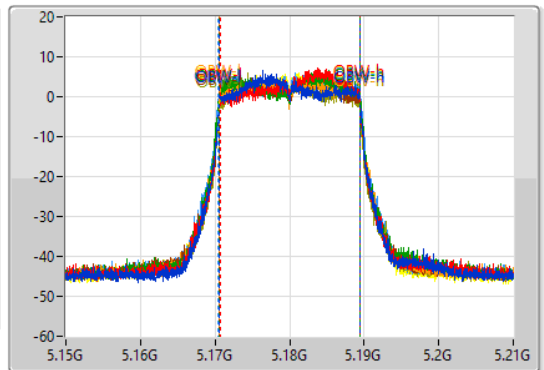
Span
60MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

Port 5

Port 6

Port 7

Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.88M	5.16962G	5.1905G	18.891M	5.170585G	5.189475G	Inf	1
20.79M	5.16965G	5.19044G	18.771M	5.170645G	5.189415G	Inf	2
21M	5.1695G	5.1905G	18.981M	5.170495G	5.189475G	Inf	3
21.33M	5.16926G	5.19059G	18.981M	5.170525G	5.189505G	Inf	4
20.88M	5.1695G	5.19038G	18.861M	5.170555G	5.189415G	Inf	5
21M	5.16962G	5.19062G	18.741M	5.170645G	5.189385G	Inf	6
21.78M	5.16908G	5.19086G	19.04M	5.170465G	5.189505G	Inf	7
21.06M	5.16947G	5.19053G	18.861M	5.170585G	5.189445G	Inf	8

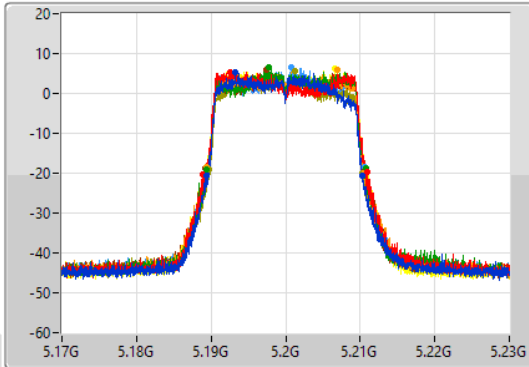
802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

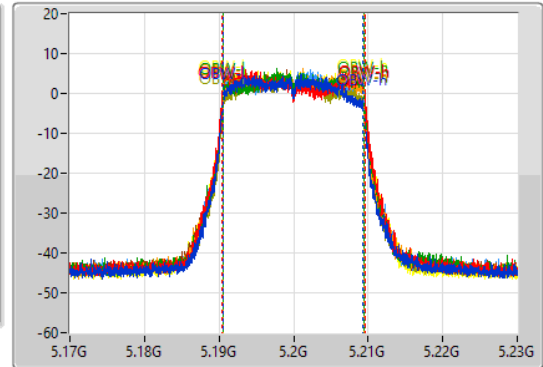
5200MHz

12/10/2022

CF: 5.2GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.2GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.91M	5.18941G	5.21032G	18.741M	5.190555G	5.209295G	Inf	1
21.99M	5.1889G	5.21089G	19.13M	5.190435G	5.209565G	Inf	2
21.48M	5.18935G	5.21083G	18.981M	5.190525G	5.209505G	Inf	3
21.18M	5.18941G	5.21059G	18.921M	5.190525G	5.209445G	Inf	4
21.42M	5.18926G	5.21068G	19.01M	5.190525G	5.209535G	Inf	5
20.55M	5.18968G	5.21023G	18.831M	5.190585G	5.209415G	Inf	6
21.18M	5.18941G	5.21059G	18.981M	5.190525G	5.209505G	Inf	7
21.42M	5.18935G	5.21077G	19.01M	5.190495G	5.209505G	Inf	8

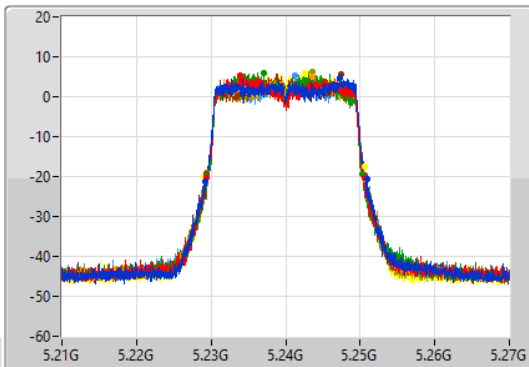
802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

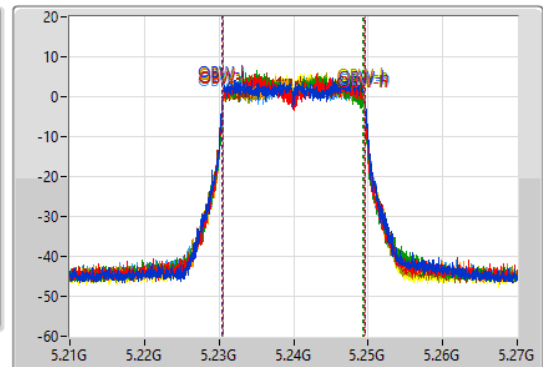
5240MHz

13/10/2022

CF: 5.24GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.24GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

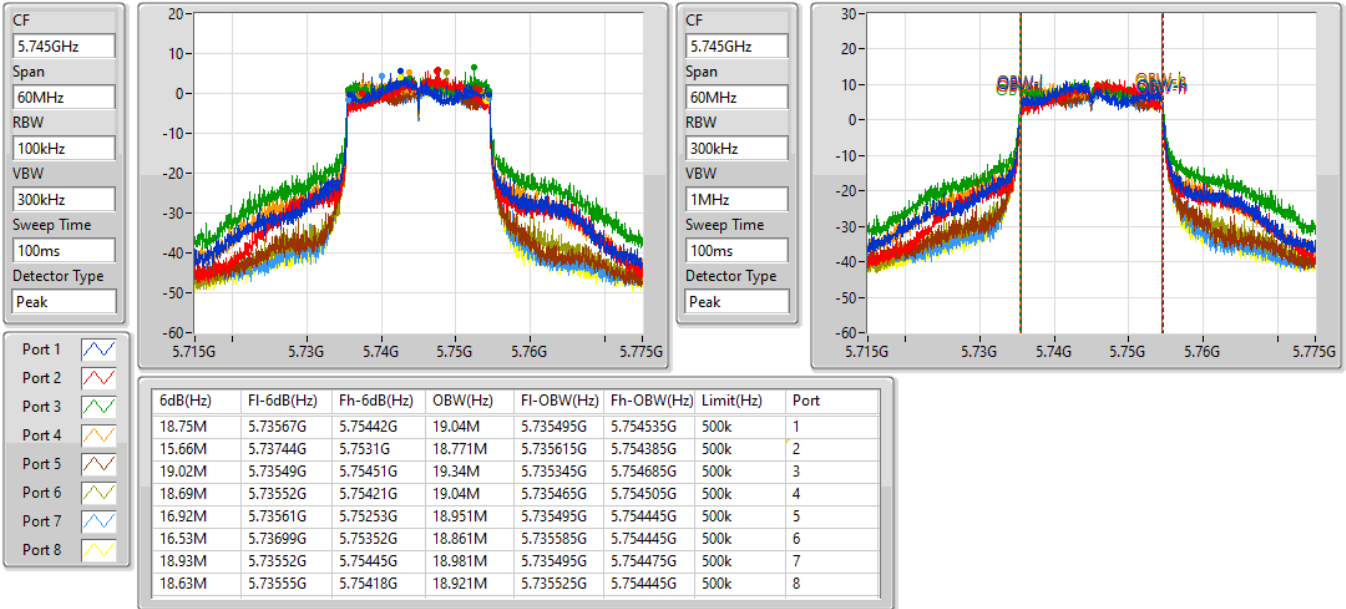
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.22914G	5.25089G	19.1M	5.230465G	5.249565G	Inf	1
21.18M	5.22941G	5.25059G	18.921M	5.230525G	5.249445G	Inf	2
20.91M	5.22941G	5.25032G	18.741M	5.230615G	5.249355G	Inf	3
21.12M	5.22947G	5.25059G	18.891M	5.230555G	5.249445G	Inf	4
21.24M	5.22944G	5.25068G	18.981M	5.230525G	5.249505G	Inf	5
21.15M	5.22944G	5.25059G	19.01M	5.230495G	5.249505G	Inf	6
21.48M	5.22938G	5.25086G	19.07M	5.230465G	5.249535G	Inf	7
21.45M	5.22911G	5.25056G	18.921M	5.230555G	5.249475G	Inf	8

802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5745MHz

13/10/2022

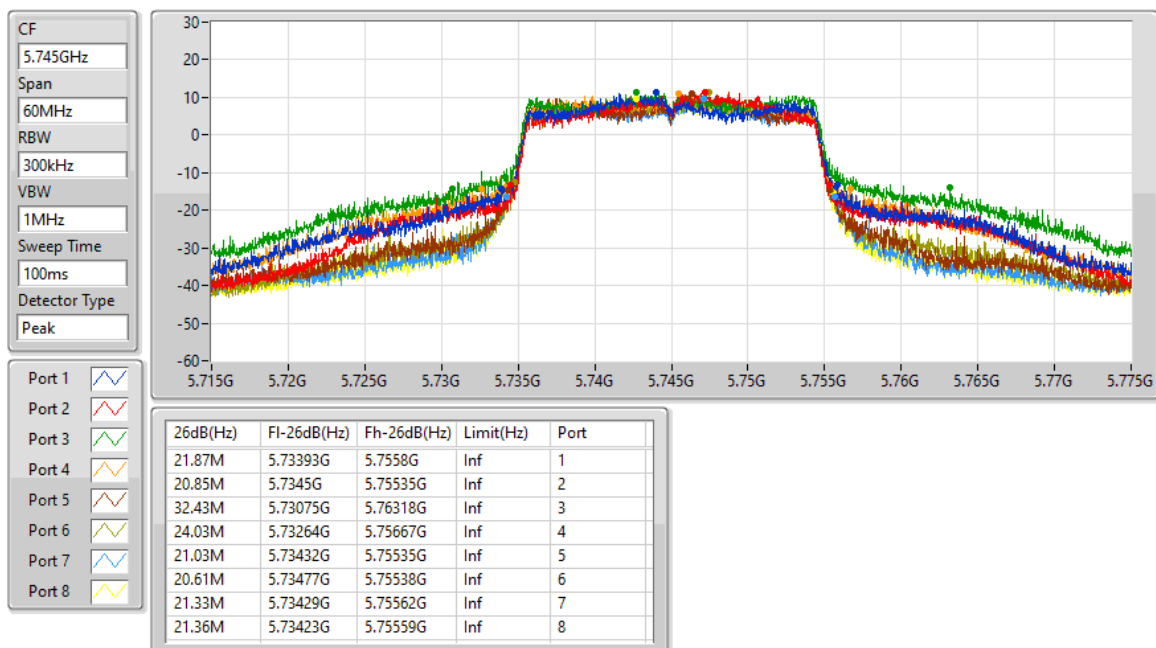


802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5745MHz

13/10/2022

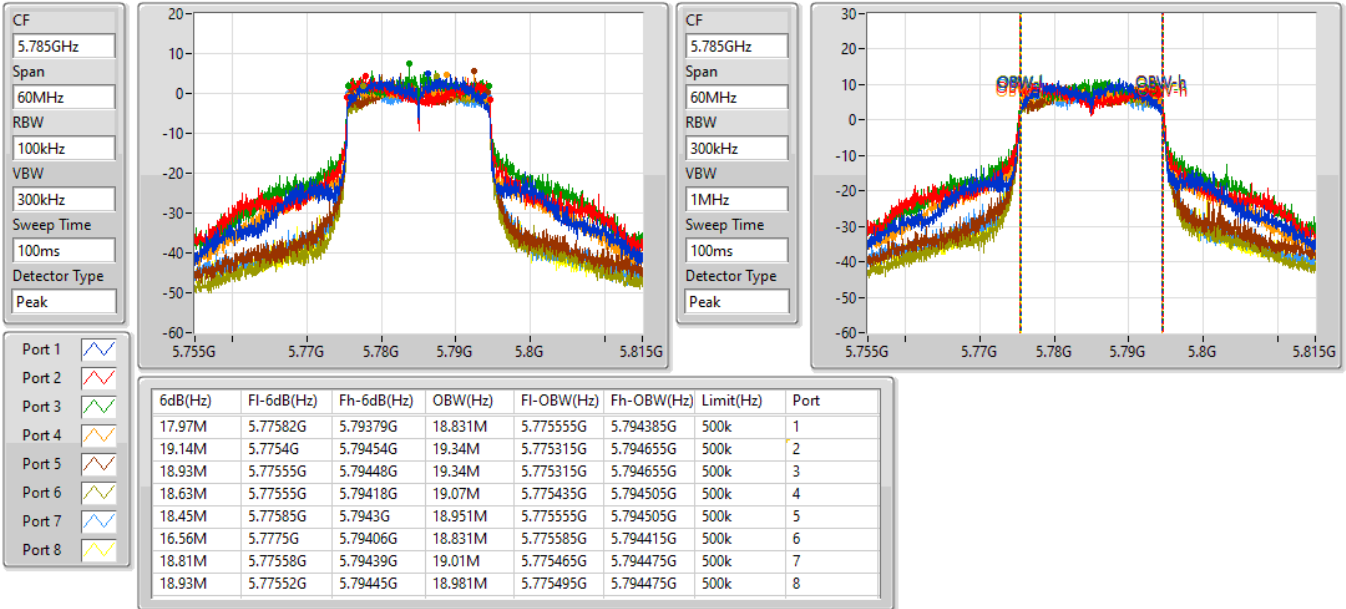


802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5785MHz

13/10/2022

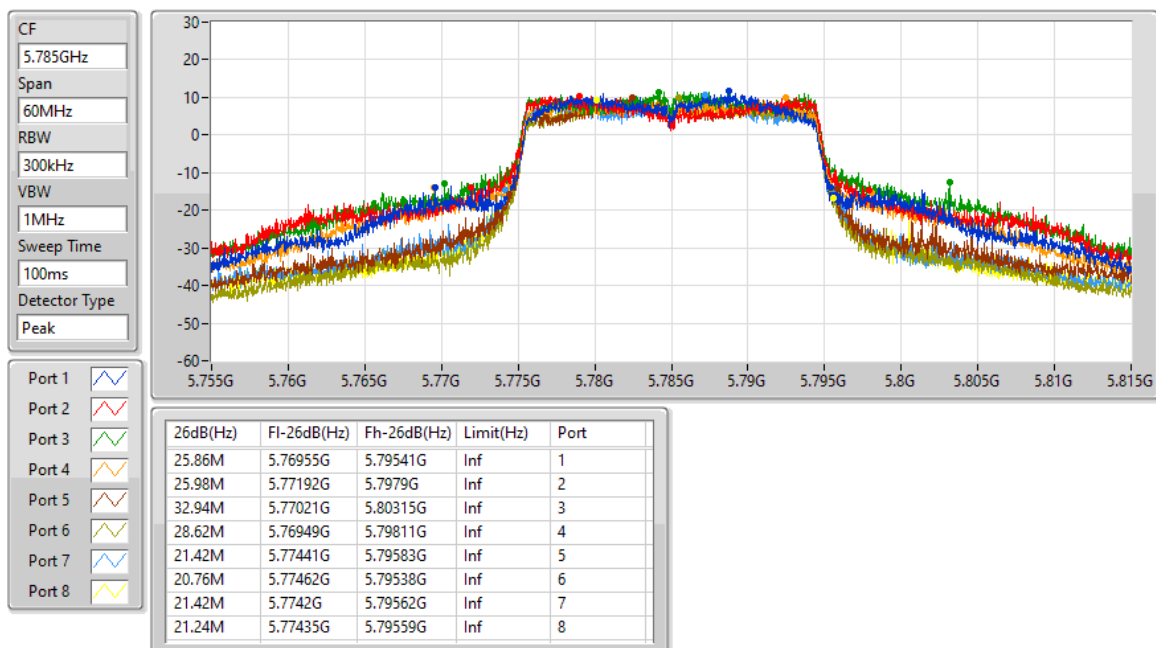


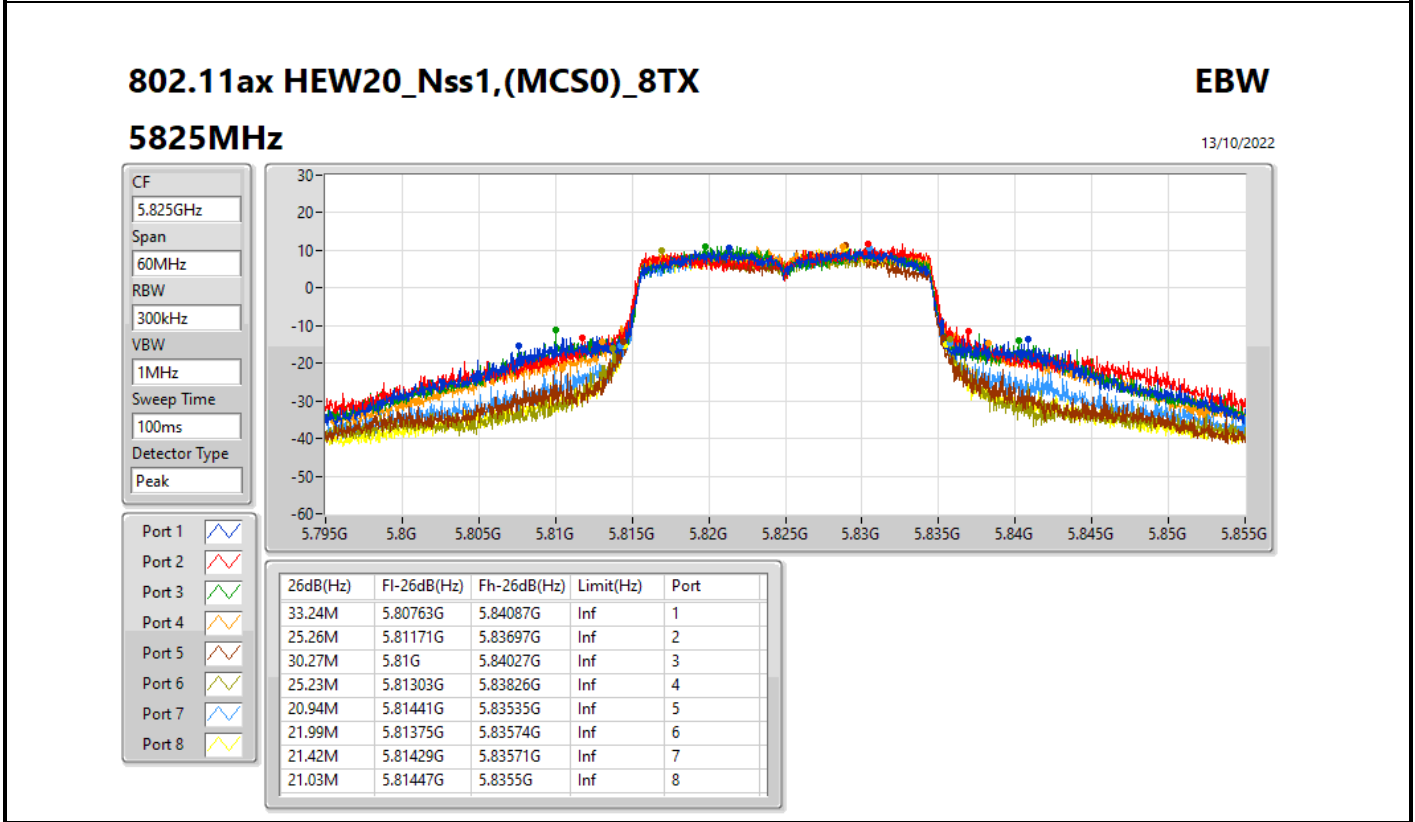
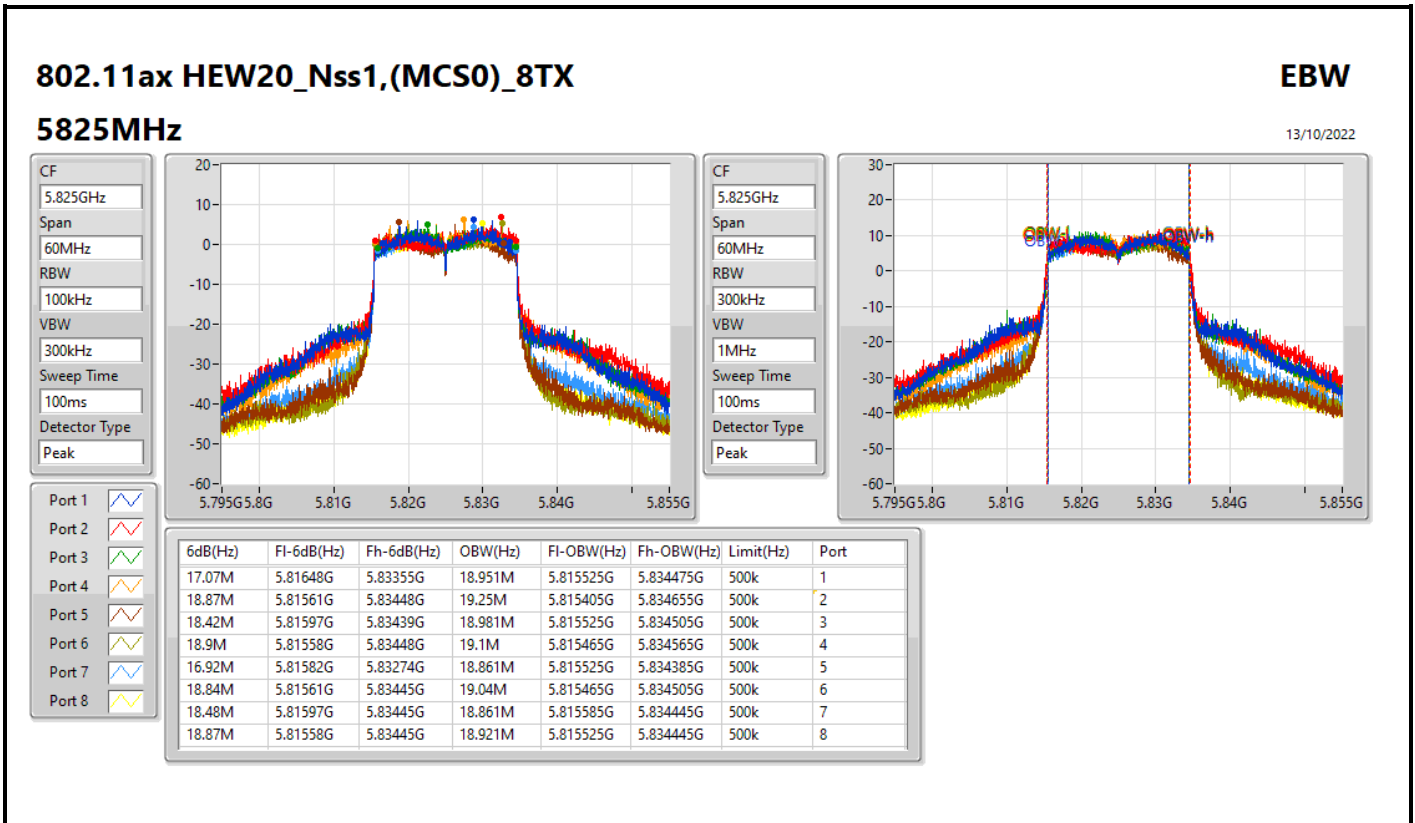
802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5785MHz

13/10/2022





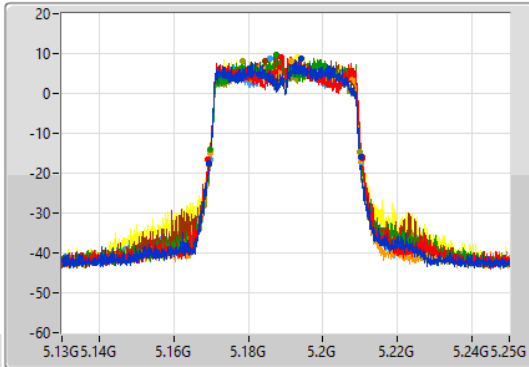
802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

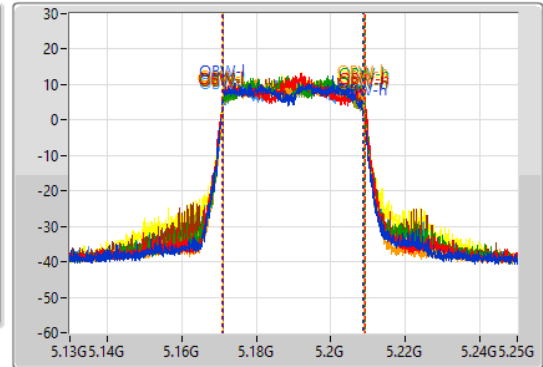
5190MHz

13/10/2022

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.68M	5.16948G	5.21016G	37.601M	5.17099G	5.208591G	Inf	1
41.22M	5.16924G	5.21046G	38.261M	5.17087G	5.20913G	Inf	2
40.74M	5.16978G	5.21052G	38.021M	5.171049G	5.20907G	Inf	3
40.68M	5.16966G	5.21034G	37.901M	5.171049G	5.208951G	Inf	4
40.86M	5.16954G	5.2104G	37.841M	5.17099G	5.208831G	Inf	5
40.44M	5.1696G	5.21004G	37.841M	5.17099G	5.208831G	Inf	6
40.68M	5.16966G	5.21034G	37.901M	5.171109G	5.20901G	Inf	7
41.16M	5.16954G	5.2107G	38.081M	5.17093G	5.20901G	Inf	8

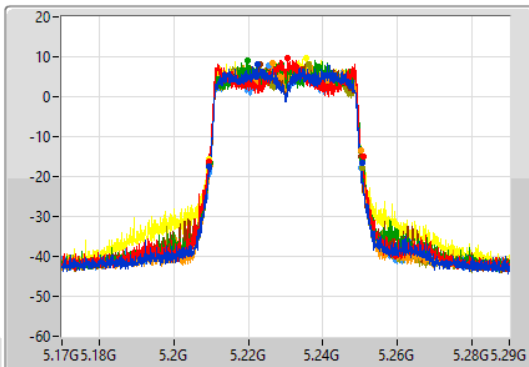
802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

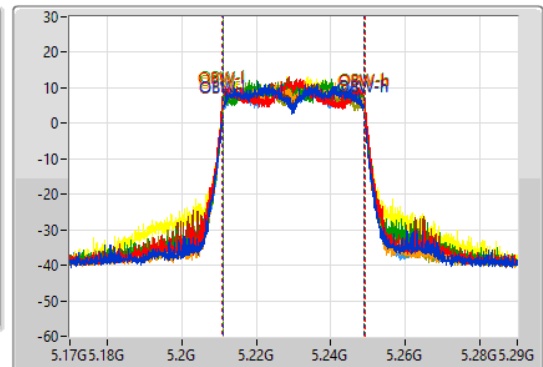
5230MHz

13/10/2022

CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak

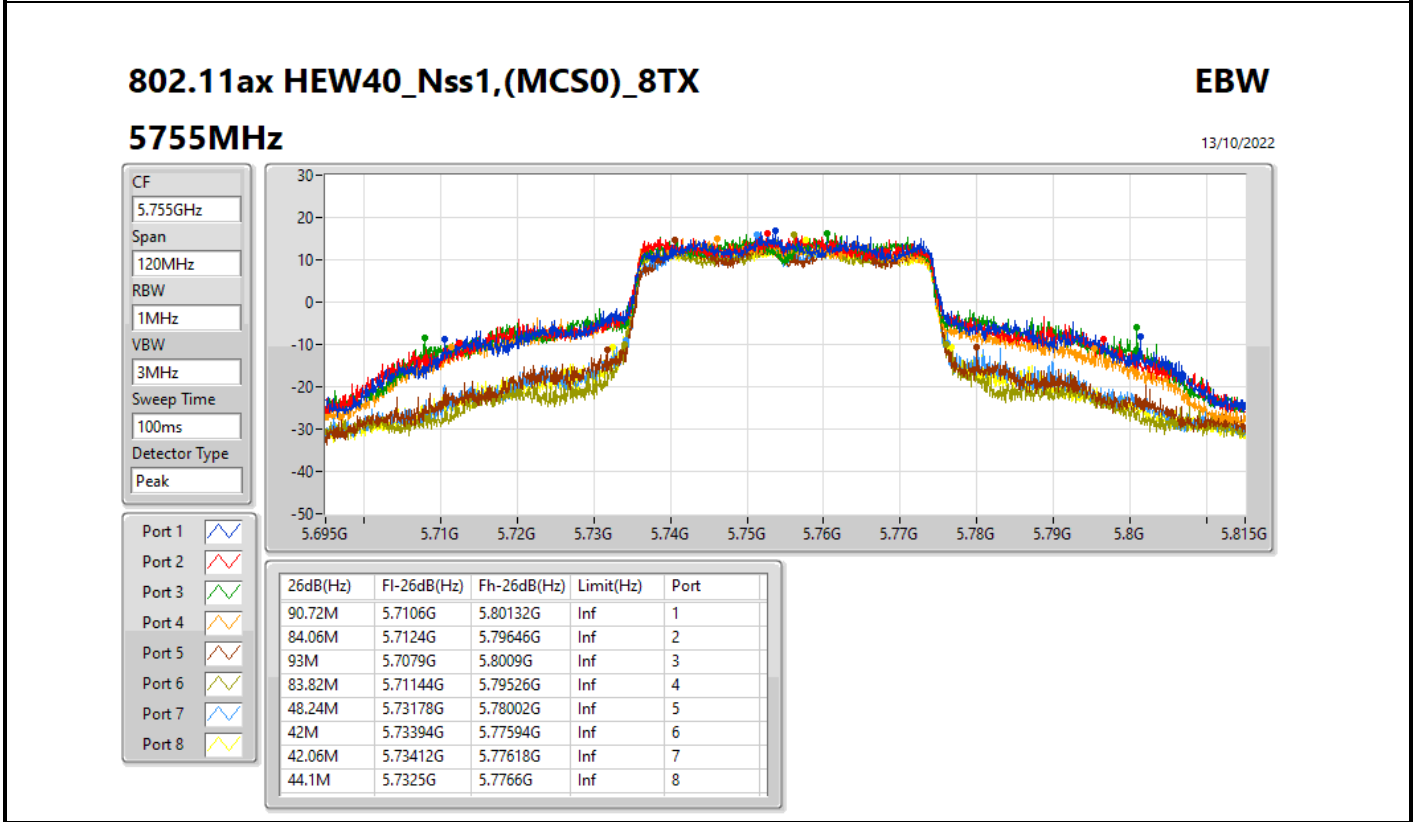
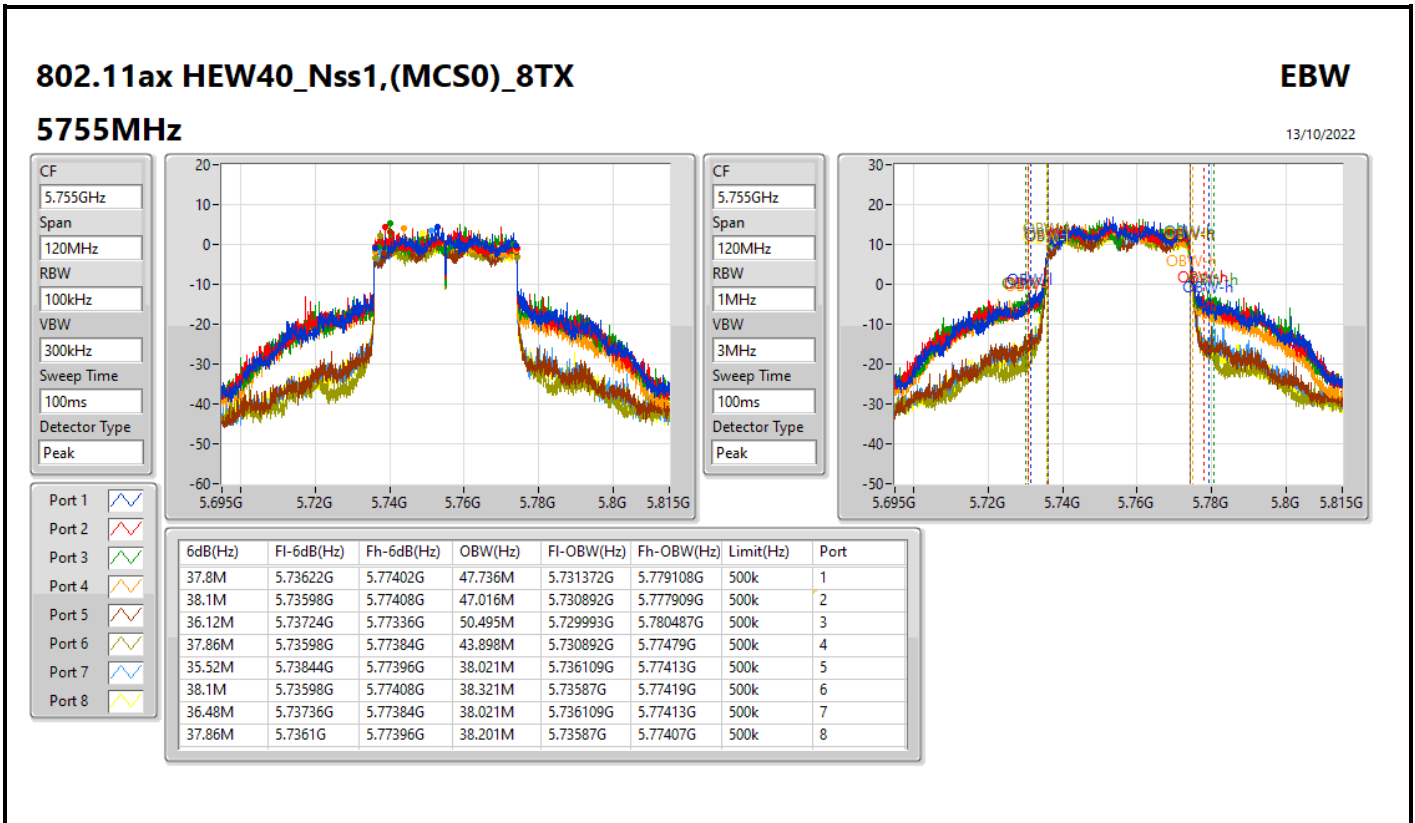


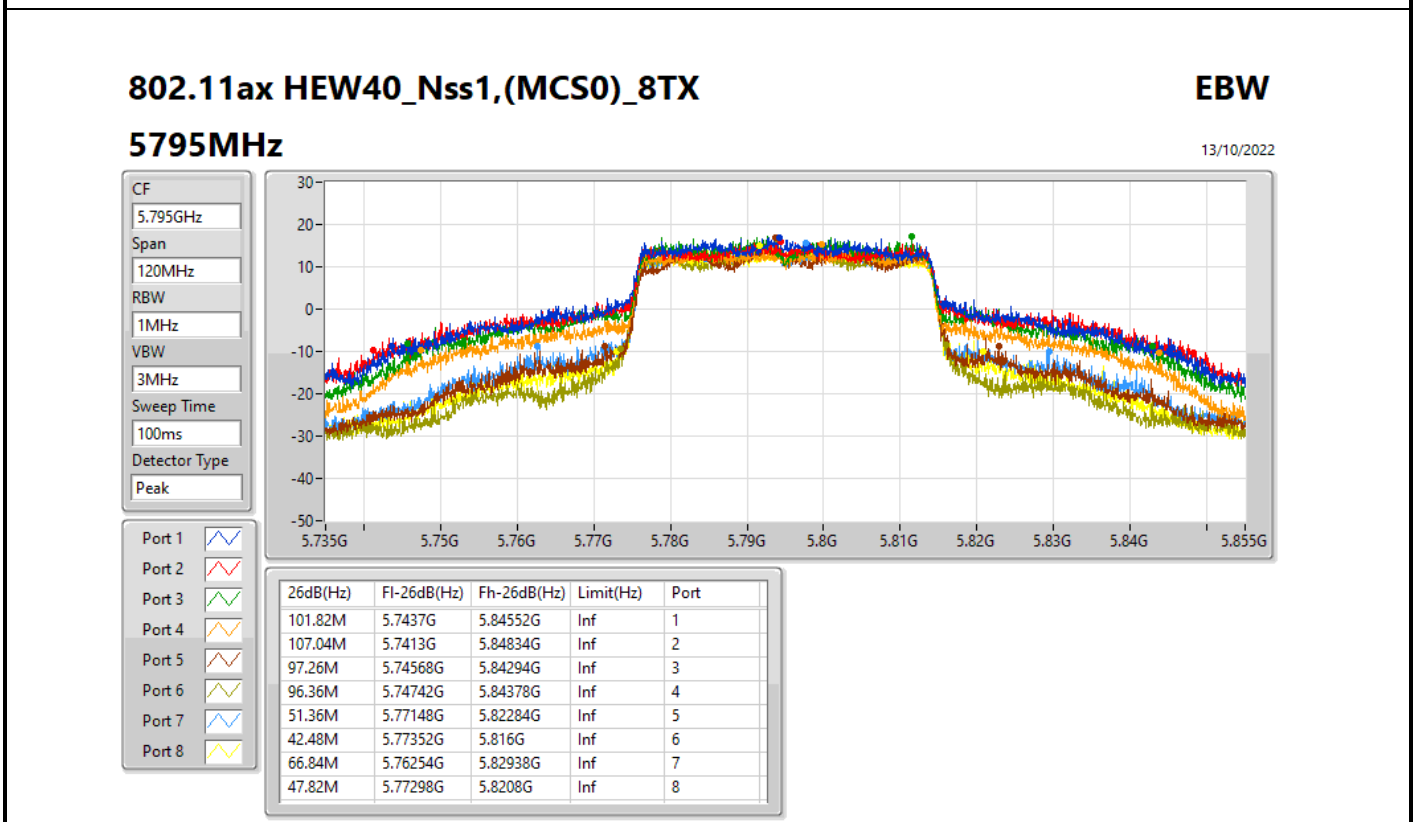
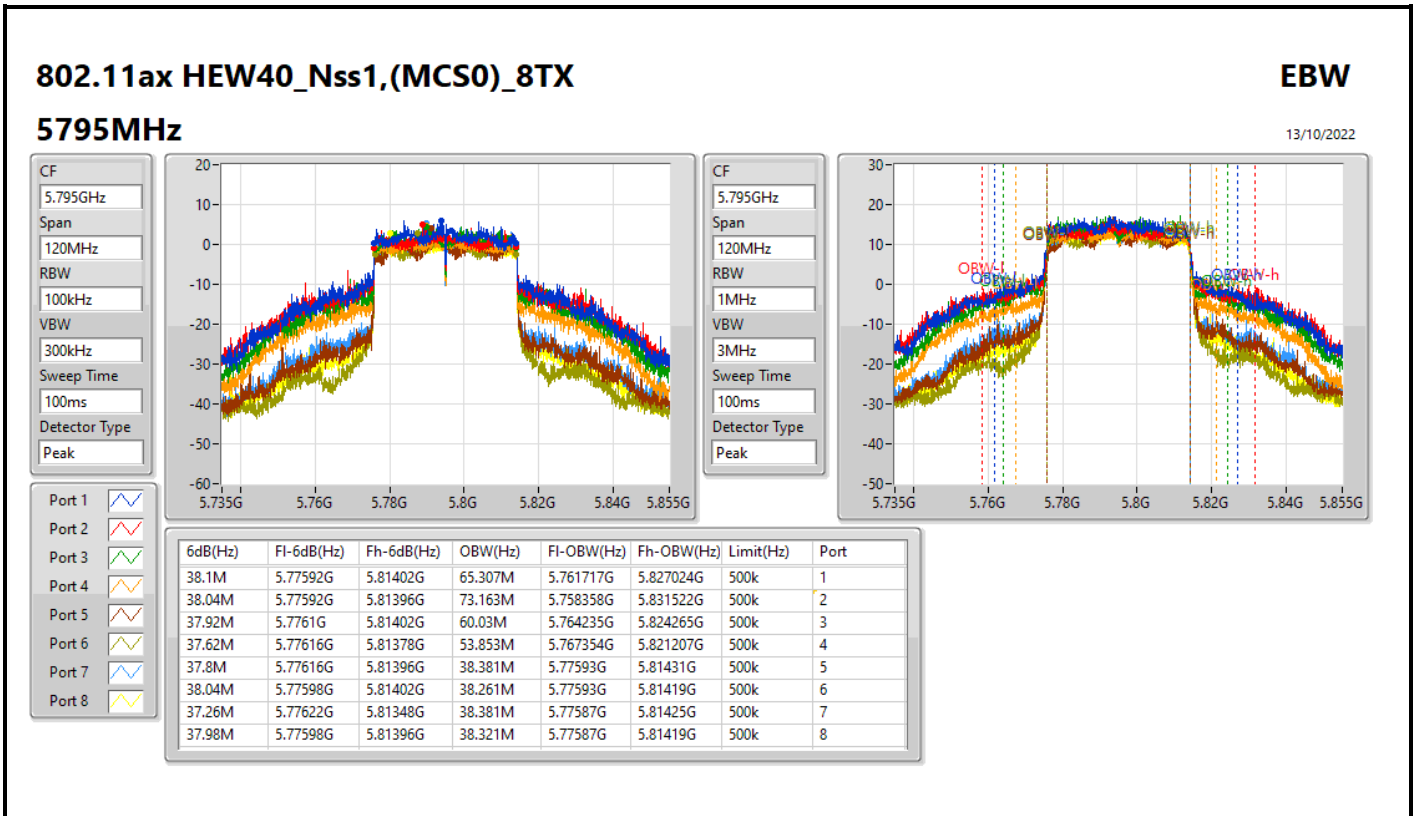
CF
5.23GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.92M	5.20948G	5.2504G	37.661M	5.211109G	5.248771G	Inf	1
41.4M	5.20942G	5.25082G	38.381M	5.21081G	5.24919G	Inf	2
40.8M	5.20966G	5.25046G	38.081M	5.21099G	5.24907G	Inf	3
40.56M	5.20966G	5.25022G	37.901M	5.211049G	5.248951G	Inf	4
40.68M	5.2096G	5.25028G	37.841M	5.21099G	5.248831G	Inf	5
40.98M	5.20948G	5.25046G	37.841M	5.211049G	5.248891G	Inf	6
40.8M	5.20954G	5.25034G	37.781M	5.211169G	5.248951G	Inf	7
41.1M	5.20936G	5.25046G	37.961M	5.21099G	5.248951G	Inf	8





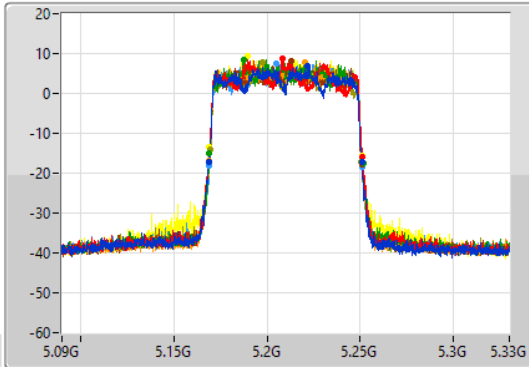
802.11ax HEW80_Nss1,(MCS0)_8TX

EBW

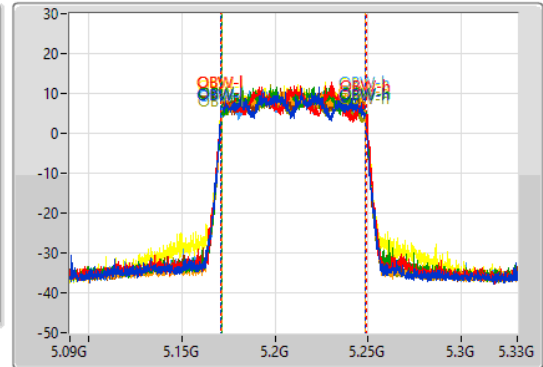
5210MHz

13/10/2022

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.32M	5.1686G	5.25092G	77.361M	5.171019G	5.248381G	Inf	1
82.44M	5.1686G	5.25104G	78.201M	5.1709G	5.2491G	Inf	2
82.32M	5.1692G	5.25152G	77.361M	5.171499G	5.248861G	Inf	3
82.08M	5.1692G	5.25128G	77.481M	5.171259G	5.248741G	Inf	4
82.08M	5.16896G	5.25104G	77.241M	5.171259G	5.248501G	Inf	5
81.36M	5.16932G	5.25068G	77.121M	5.171259G	5.248381G	Inf	6
82.2M	5.16908G	5.25128G	77.361M	5.171379G	5.248741G	Inf	7
81.96M	5.1692G	5.25116G	77.481M	5.171259G	5.248741G	Inf	8

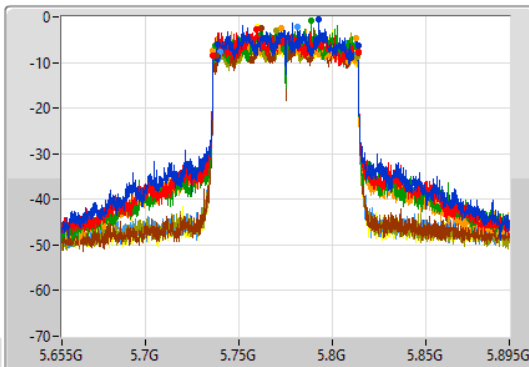
802.11ax HEW80_Nss1,(MCS0)_8TX

EBW

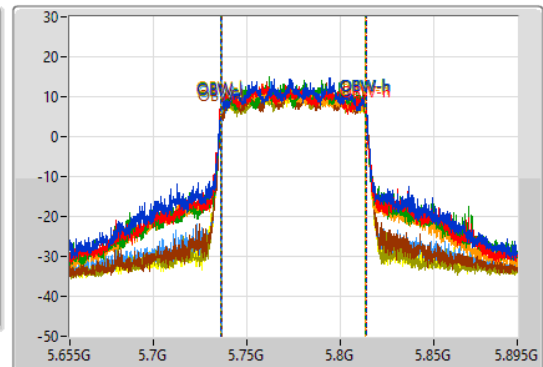
5775MHz

13/10/2022

CF
5.775GHz
Span
240MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

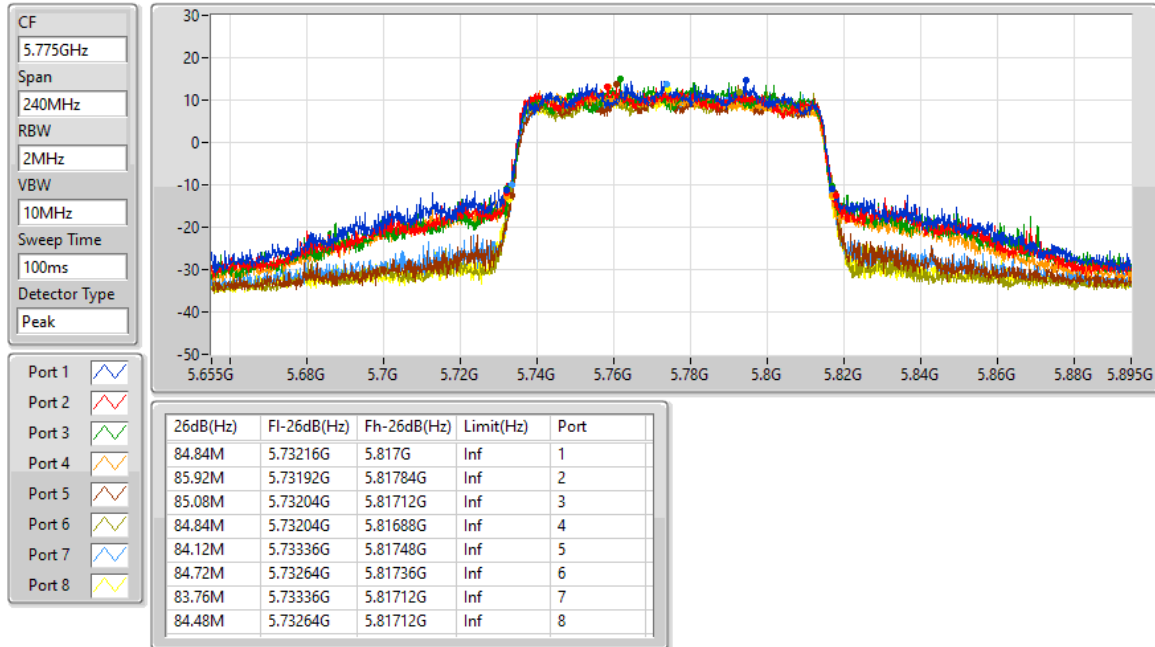
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.24M	5.73864G	5.81388G	77.841M	5.736139G	5.813981G	500k	1
78M	5.736G	5.814G	78.081M	5.73578G	5.813861G	500k	2
75.48M	5.73696G	5.81244G	77.601M	5.736139G	5.813741G	500k	3
76.56M	5.736G	5.81256G	77.721M	5.7359G	5.813621G	500k	4
75.84M	5.73816G	5.814G	77.481M	5.736619G	5.8141G	500k	5
77.52M	5.73624G	5.81376G	77.841M	5.736139G	5.813981G	500k	6
73.92M	5.73984G	5.81376G	77.121M	5.736619G	5.813741G	500k	7
77.4M	5.736G	5.8134G	77.481M	5.736139G	5.813621G	500k	8

802.11ax HEW80_Nss1,(MCS0)_8TX

EBW

5775MHz

13/10/2022





For UNII 1 indoor + UNII 3 indoor + outdoor

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	19.86M	16.567M	16M6D1D	18.99M	16.261M
802.11ax HEW20_Nss1,(MCS0)_8TX	21.87M	19.042M	19M0D1D	20.61M	18.718M
802.11ax HEW40_Nss1,(MCS0)_8TX	41.46M	38.142M	38M1D1D	40.5M	37.613M
802.11ax HEW80_Nss1,(MCS0)_8TX	82.8M	77.695M	77M7D1D	81.6M	76.99M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	16.35M	16.465M	16M5D1D	15.69M	16.312M
802.11ax HEW20_Nss1,(MCS0)_8TX	19.02M	19.071M	19M1D1D	16.05M	18.748M
802.11ax HEW40_Nss1,(MCS0)_8TX	38.1M	37.907M	37M9D1D	36.42M	37.554M
802.11ax HEW80_Nss1,(MCS0)_8TX	77.76M	77.342M	77M3D1D	73.32M	76.872M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.65M	16.388M	19.17M	16.312M	19.23M	16.363M	19.59M	16.312M	19.23M	16.388M	19.53M	16.439M	19.38M	16.337M	19.47M	16.414M
5200MHz	Pass	Inf	19.53M	16.337M	19.26M	16.439M	19.35M	16.414M	19.65M	16.414M	19.08M	16.312M	18.99M	16.337M	19.53M	16.414M	19.53M	16.414M
5240MHz	Pass	Inf	19.14M	16.261M	19.86M	16.567M	19.11M	16.312M	19.26M	16.337M	19.68M	16.388M	19.17M	16.312M	19.29M	16.363M	19.26M	16.388M
5745MHz	Pass	500k	16.29M	16.414M	15.72M	16.388M	16.32M	16.414M	16.02M	16.337M	15.69M	16.312M	16.32M	16.465M	15.69M	16.337M	16.32M	16.388M
5785MHz	Pass	500k	16.29M	16.439M	16.32M	16.414M	16.35M	16.439M	16.32M	16.337M	15.93M	16.363M	16.32M	16.465M	16.02M	16.363M	16.32M	16.414M
5825MHz	Pass	500k	16.32M	16.414M	16.29M	16.337M	15.93M	16.414M	16.29M	16.363M	16.08M	16.388M	16.32M	16.465M	16.29M	16.363M	16.32M	16.388M
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.33M	19.012M	21.51M	18.954M	20.97M	18.895M	21.72M	18.983M	21.48M	18.924M	21.75M	19.012M	21.45M	18.983M	20.88M	18.865M
5200MHz	Pass	Inf	21.63M	19.042M	21.24M	18.983M	20.94M	18.924M	21.54M	18.983M	20.82M	18.836M	20.85M	18.777M	21.87M	19.012M	21.09M	18.865M
5240MHz	Pass	Inf	20.91M	18.895M	20.79M	18.748M	21.06M	18.836M	21.57M	18.924M	20.94M	18.836M	20.82M	18.895M	20.61M	18.718M	21.24M	18.865M
5745MHz	Pass	500k	18.42M	18.865M	16.11M	18.777M	19.02M	19.012M	18.75M	18.954M	16.95M	18.895M	18.21M	18.807M	17.85M	18.895M	18.48M	18.924M
5785MHz	Pass	500k	18.84M	18.954M	16.05M	18.777M	16.47M	18.777M	18.9M	18.954M	18.72M	18.895M	16.89M	18.807M	18.36M	18.895M	18.84M	18.924M
5825MHz	Pass	500k	17.91M	18.748M	18.96M	19.071M	18.66M	19.012M	18.84M	18.895M	18.6M	18.836M	17.58M	18.807M	18.93M	18.983M	18.66M	18.895M
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.62M	37.672M	40.98M	37.966M	40.56M	37.79M	40.56M	37.731M	40.86M	37.731M	40.5M	37.613M	40.62M	37.672M	40.74M	37.848M
5230MHz	Pass	Inf	40.86M	37.613M	41.46M	38.142M	41.1M	37.907M	40.92M	37.731M	40.62M	37.672M	40.74M	37.79M	40.92M	37.613M	40.98M	37.79M
5755MHz	Pass	500k	38.04M	37.907M	37.32M	37.848M	36.42M	37.554M	37.92M	37.731M	38.1M	37.672M	37.86M	37.907M	37.56M	37.613M	37.68M	37.79M
5795MHz	Pass	500k	37.98M	37.907M	37.8M	37.907M	37.2M	37.554M	37.74M	37.731M	37.92M	37.848M	38.04M	37.907M	36.9M	37.731M	37.92M	37.79M
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	76.99M	82.8M	77.695M	81.6M	77.342M	81.96M	77.107M	82.56M	77.107M	81.96M	77.107M	82.44M	77.107M	82.08M	77.107M
5775MHz	Pass	500k	77.64M	77.225M	77.76M	77.342M	73.32M	76.872M	77.28M	77.107M	75.36M	77.107M	77.76M	77.342M	73.68M	76.872M	77.76M	77.225M

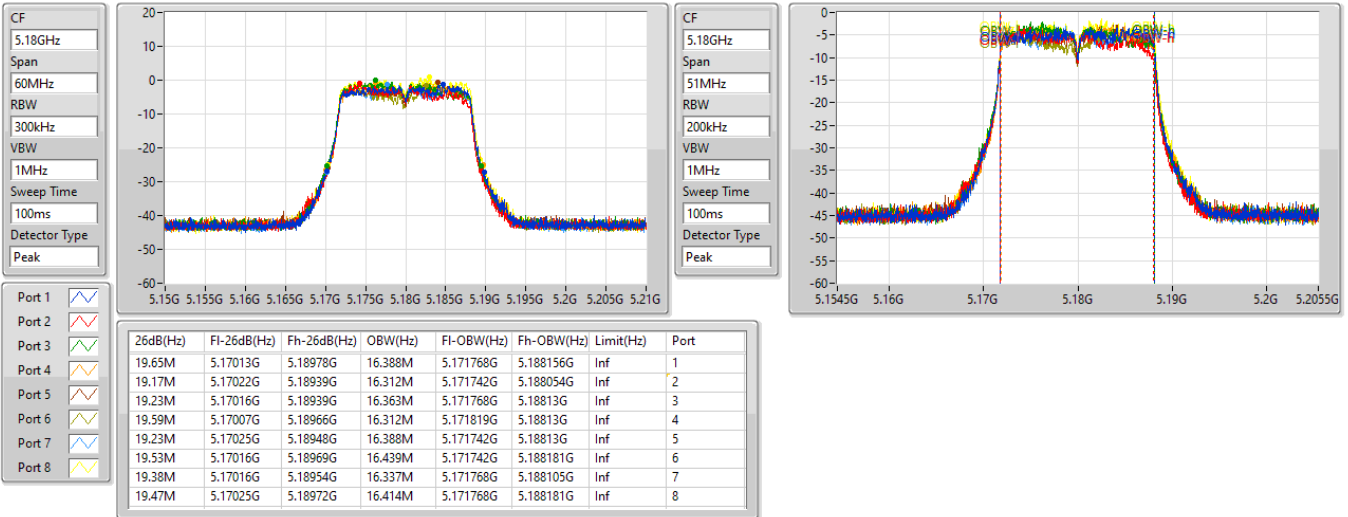
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_8TX

EBW

5180MHz

20/10/2022

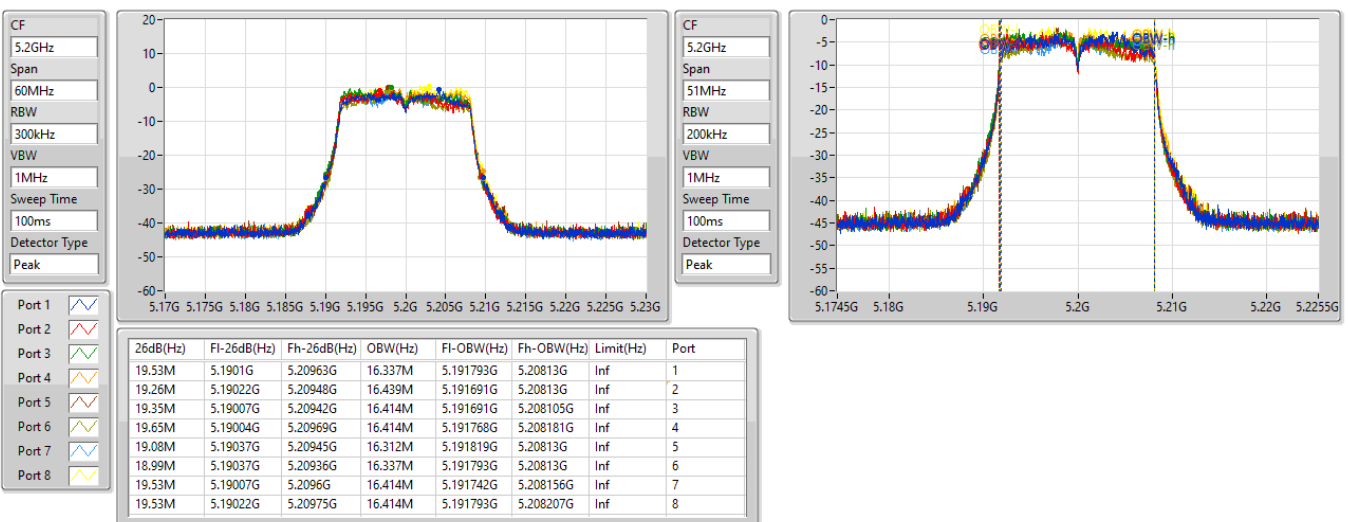


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_8TX

EBW

5200MHz

20/10/2022

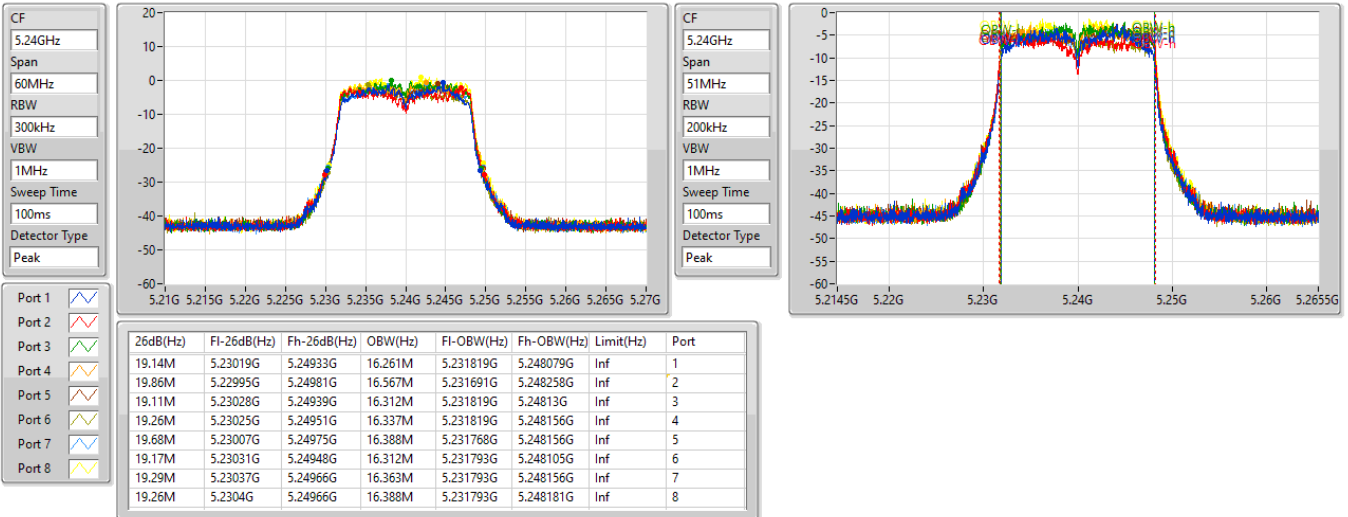


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_8TX

EBW

5240MHz

20/10/2022

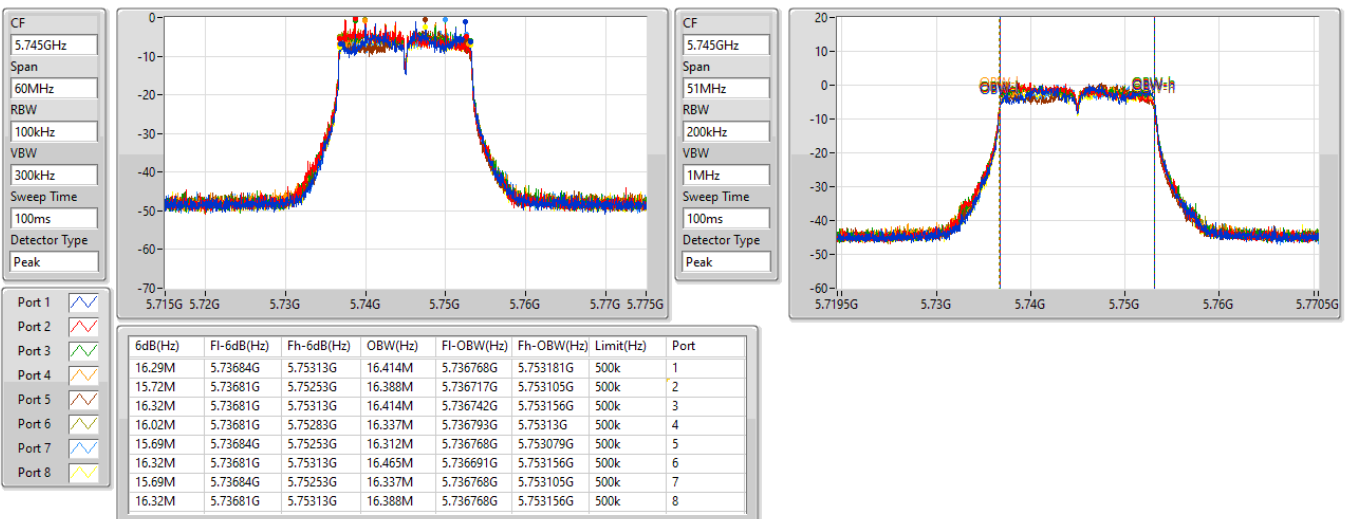


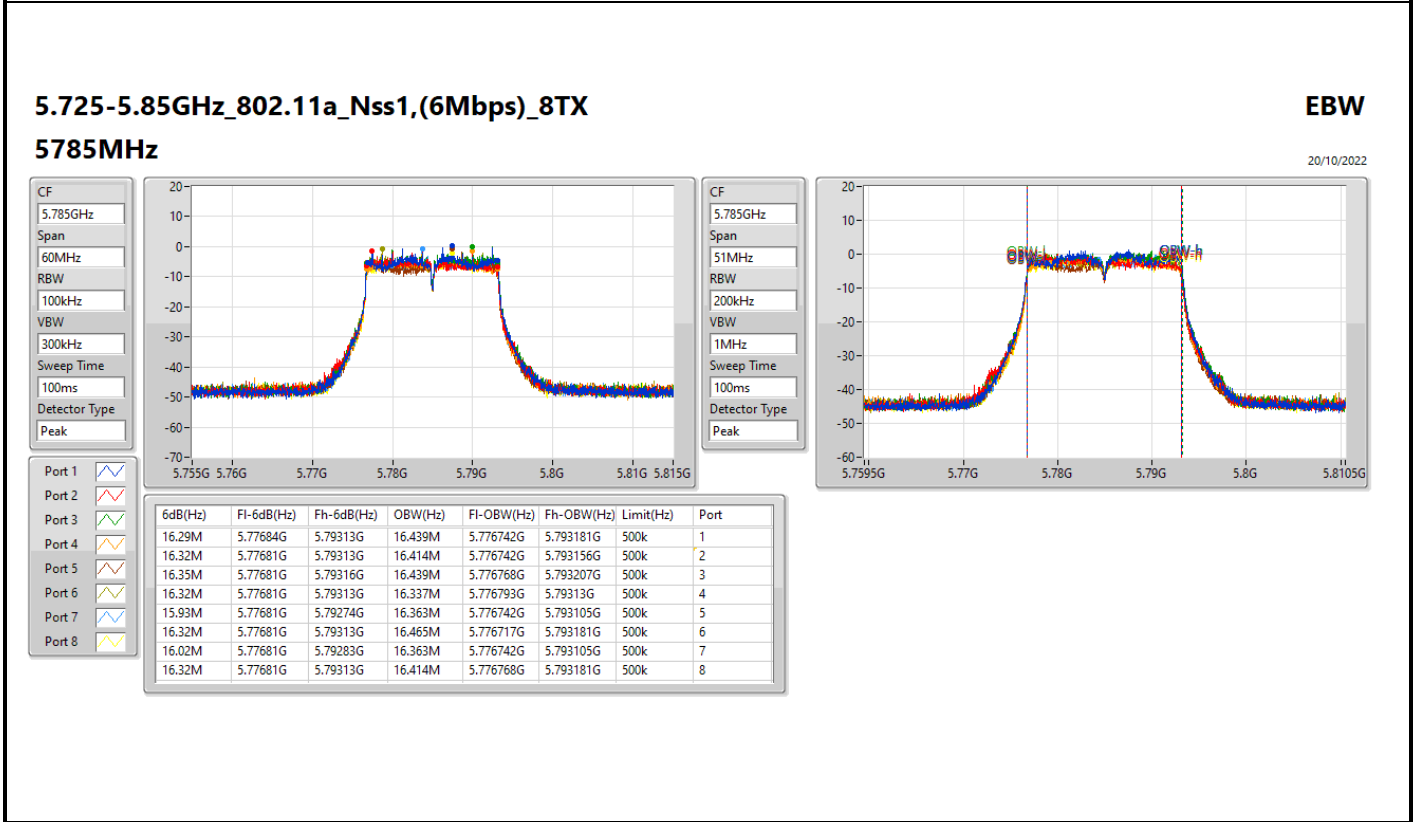
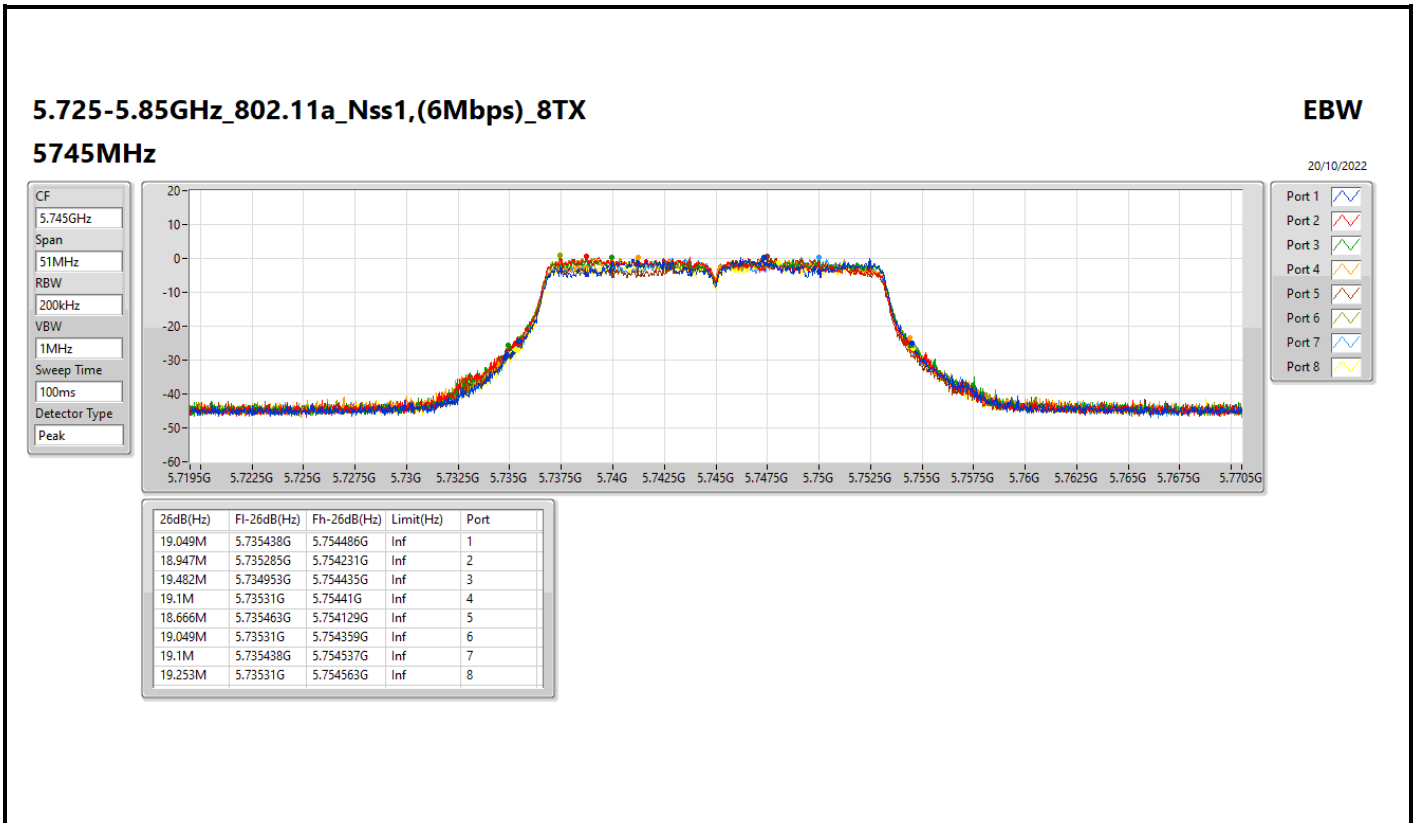
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_8TX

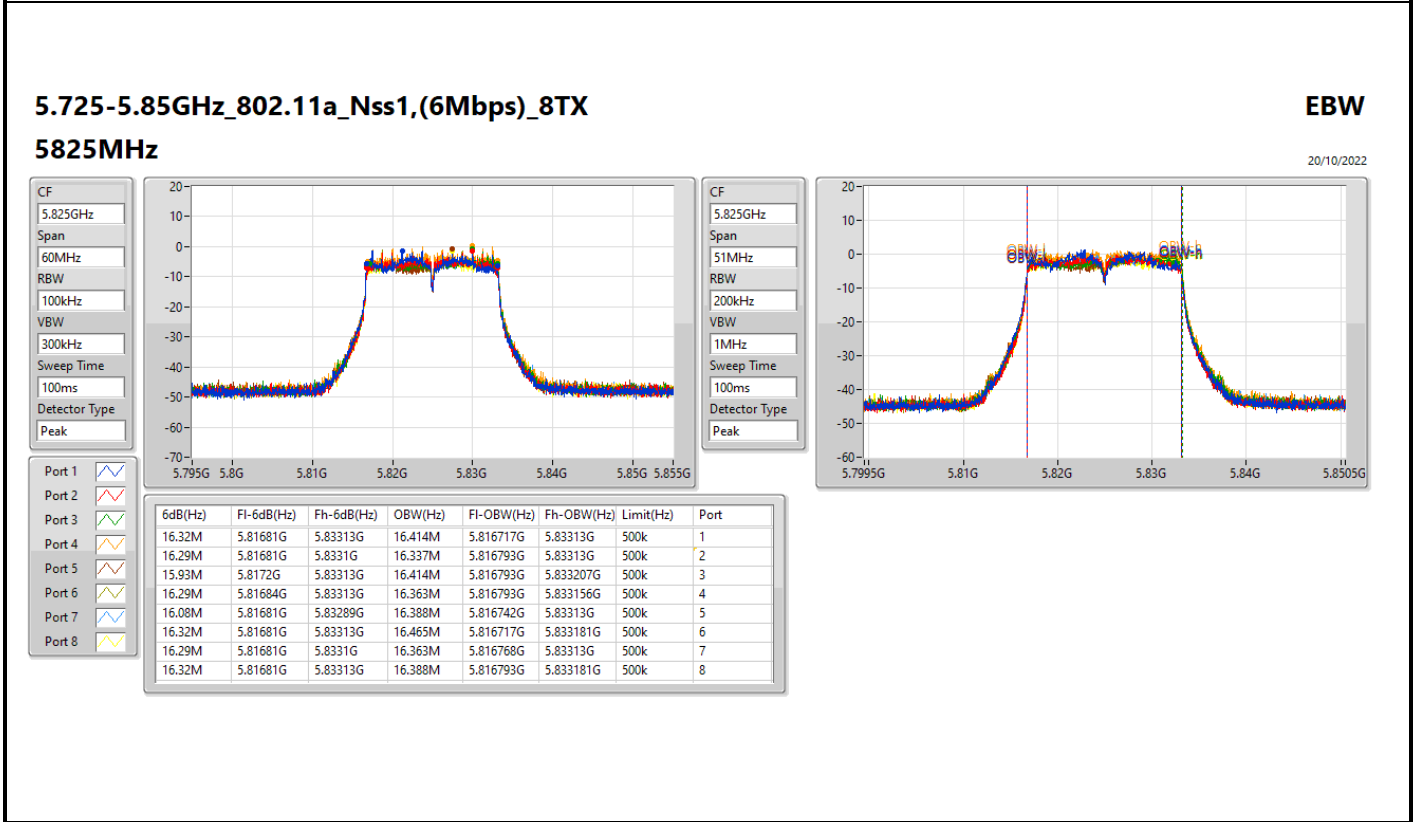
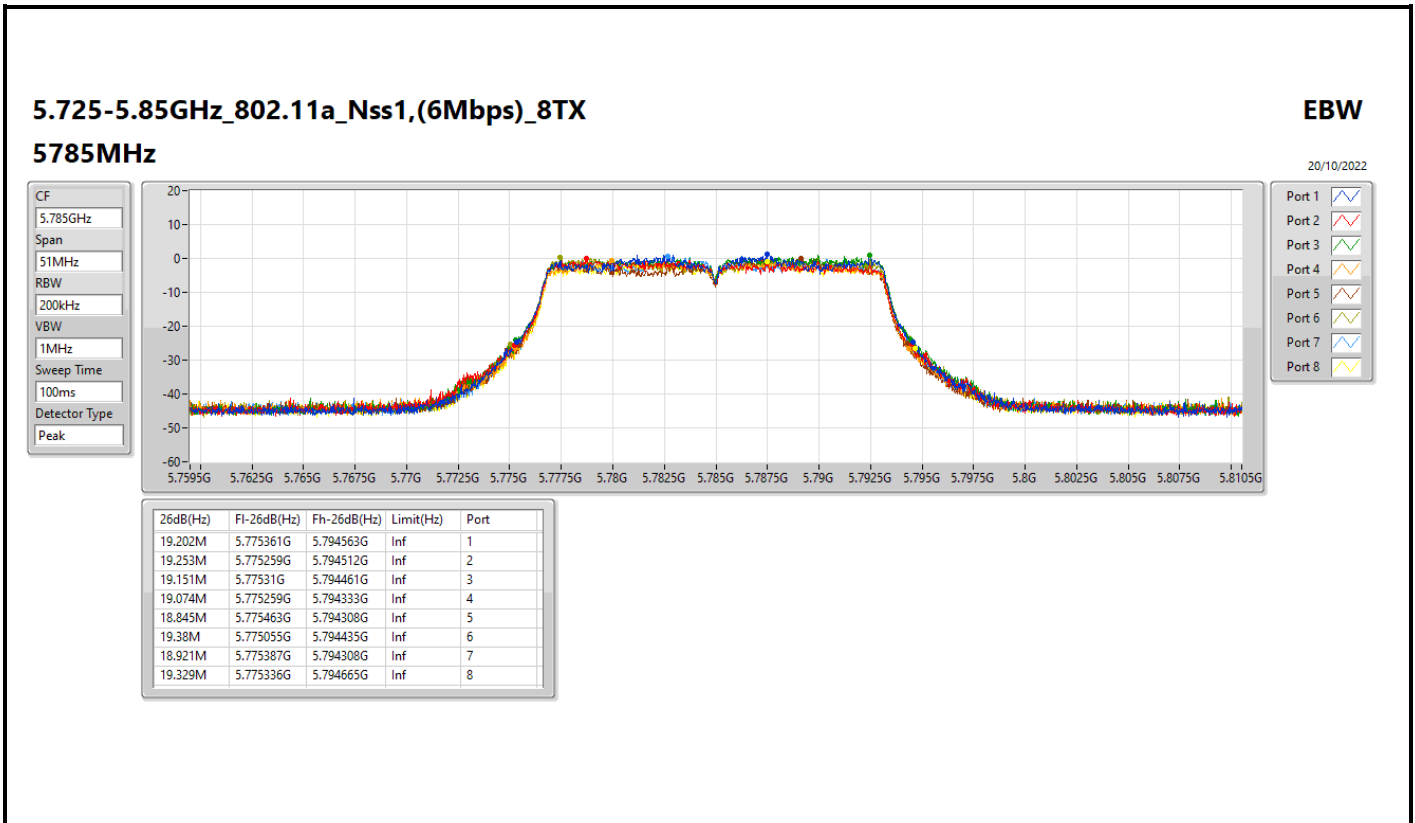
EBW

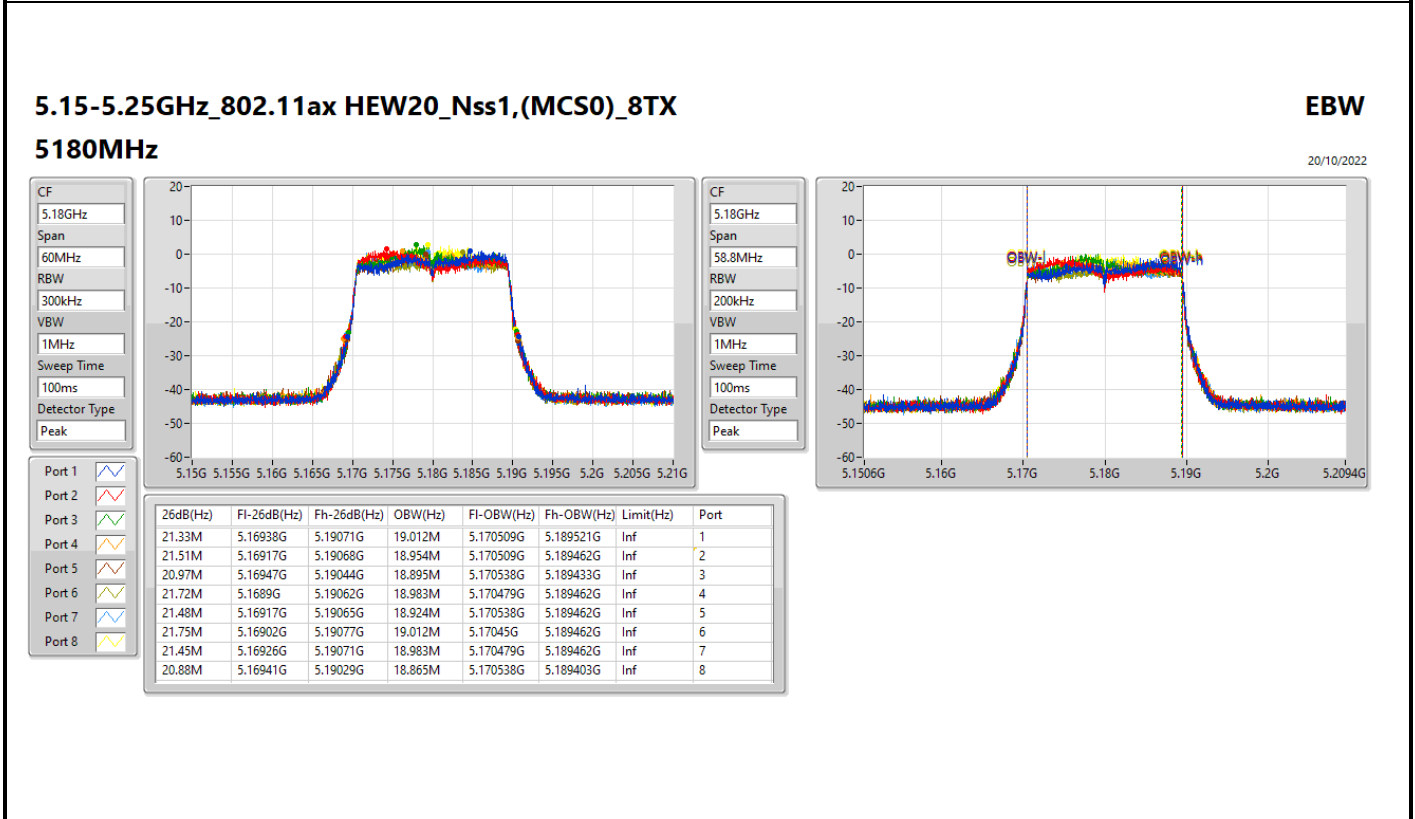
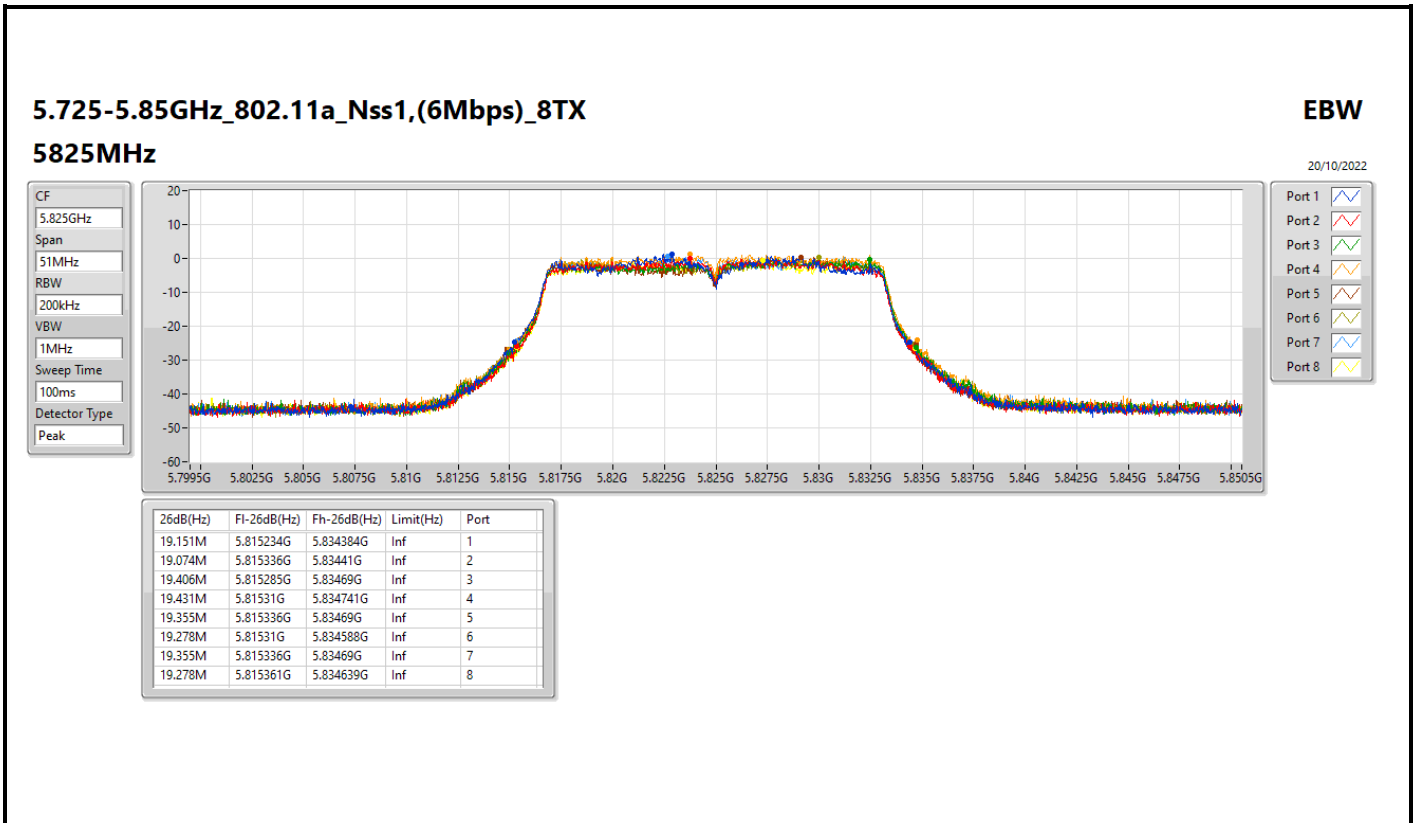
5745MHz

20/10/2022







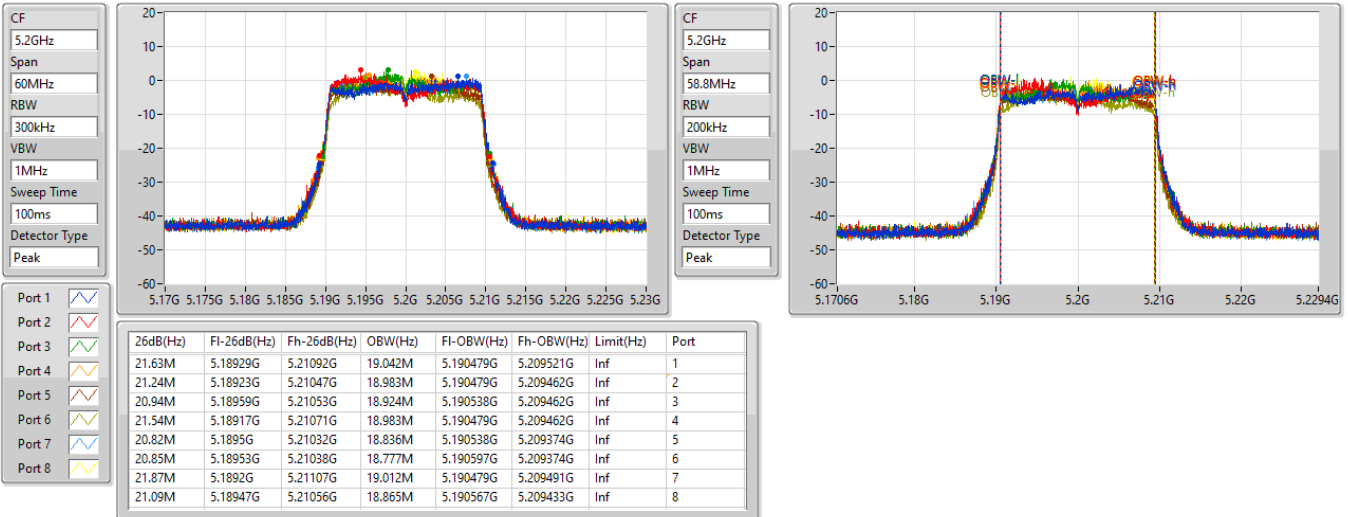


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5200MHz

20/10/2022

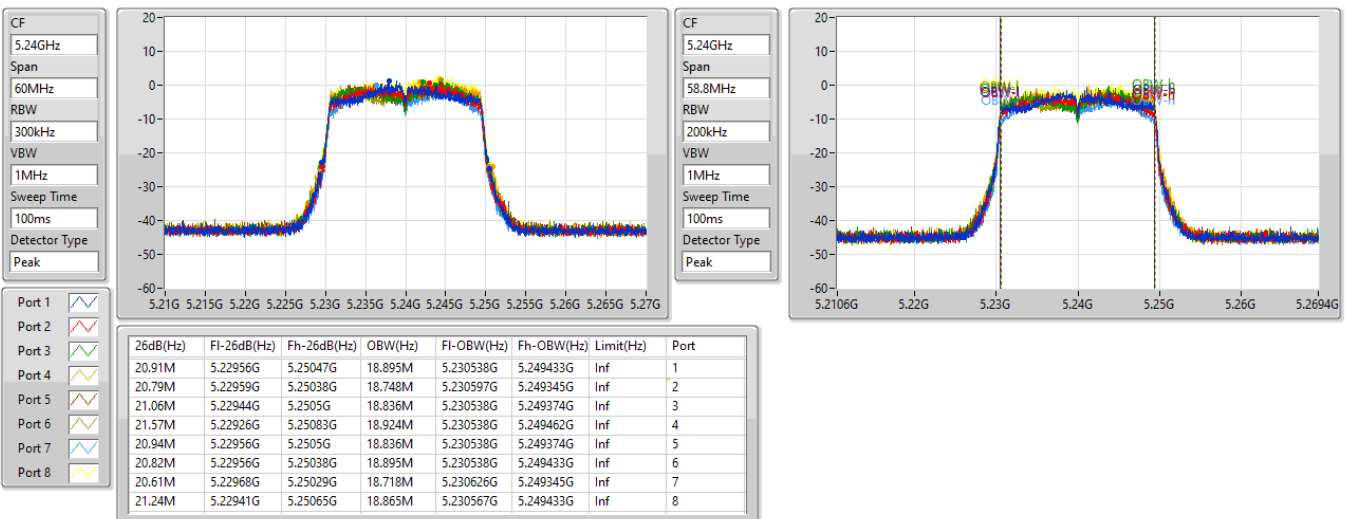


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5240MHz

20/10/2022

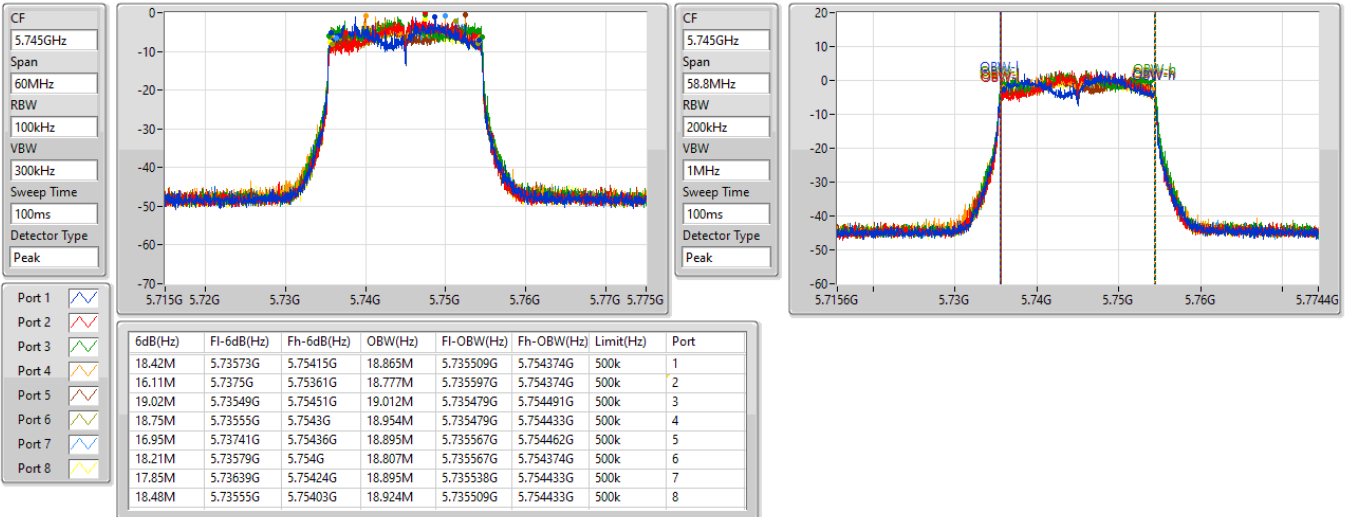


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5745MHz

20/10/2022

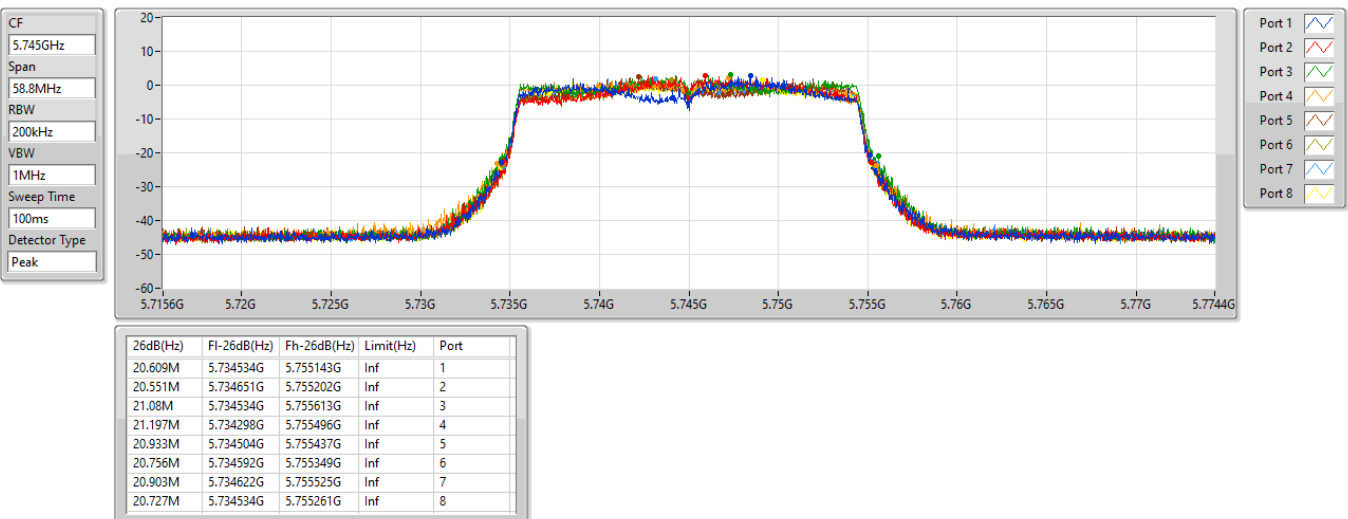


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5745MHz

20/10/2022



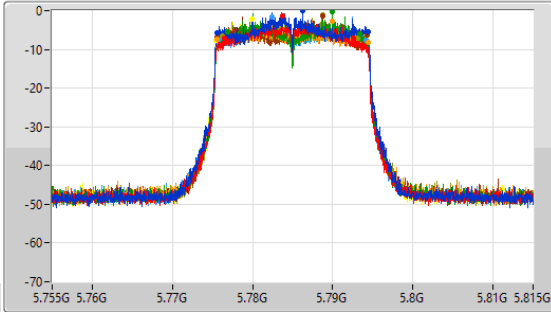
5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

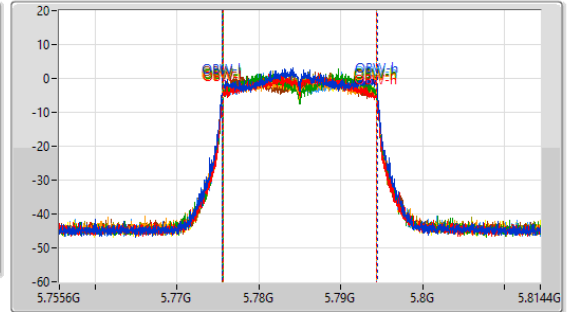
5785MHz

20/10/2022

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
58.8MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.84M	5.77558G	5.79442G	18.954M	5.775509G	5.794462G	500k	1
16.05M	5.77654G	5.79259G	18.777M	5.775567G	5.794345G	500k	2
16.47M	5.77687G	5.79334G	18.777M	5.775597G	5.794374G	500k	3
18.9M	5.77552G	5.79442G	18.954M	5.775479G	5.794433G	500k	4
18.72M	5.77561G	5.79433G	18.895M	5.775509G	5.794403G	500k	5
16.89M	5.77624G	5.79313G	18.807M	5.775567G	5.794374G	500k	6
18.36M	5.77585G	5.79421G	18.895M	5.775538G	5.794433G	500k	7
18.84M	5.77549G	5.79433G	18.924M	5.775509G	5.794433G	500k	8

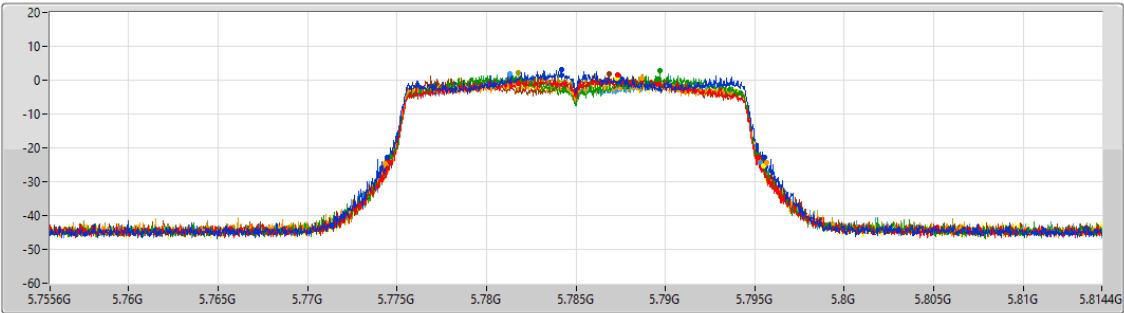
5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5785MHz

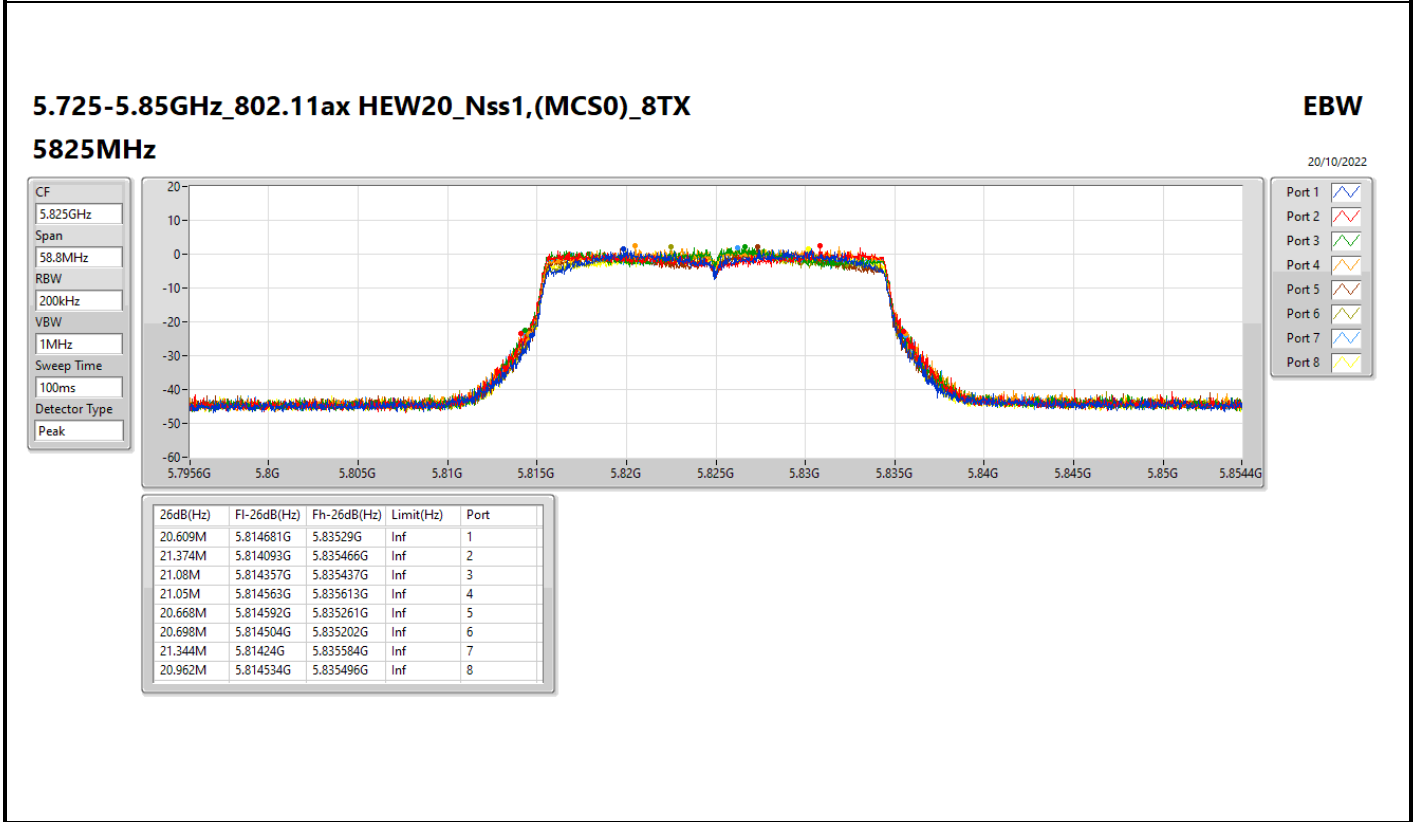
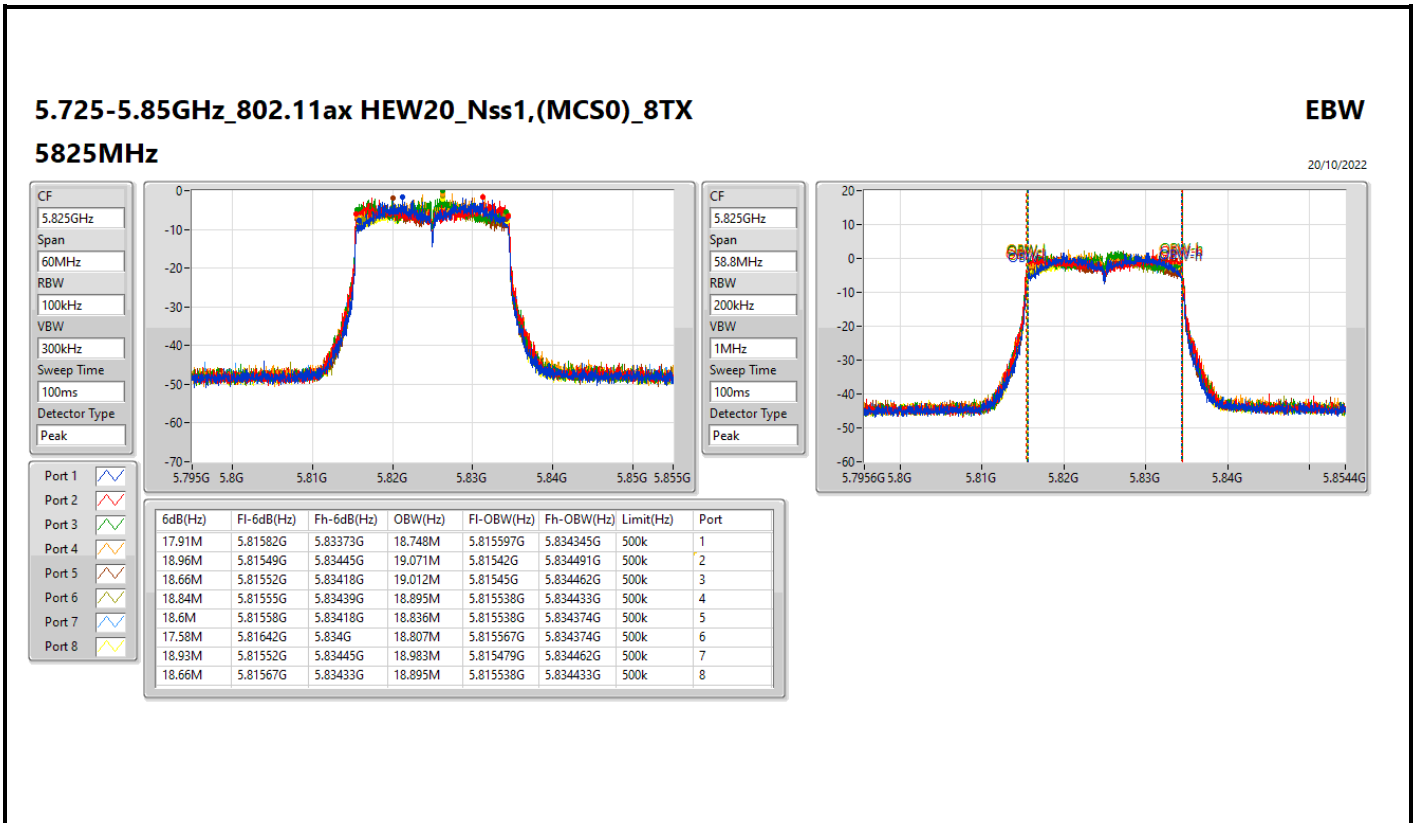
20/10/2022

CF
5.785GHz
Span
58.8MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.05M	5.774475G	5.795525G	Inf	1
20.58M	5.774622G	5.795202G	Inf	2
20.58M	5.774622G	5.795202G	Inf	3
21.286M	5.774357G	5.795643G	Inf	4
21.021M	5.774475G	5.795496G	Inf	5
20.727M	5.774534G	5.795261G	Inf	6
20.639M	5.774651G	5.79529G	Inf	7
21.021M	5.774475G	5.795496G	Inf	8

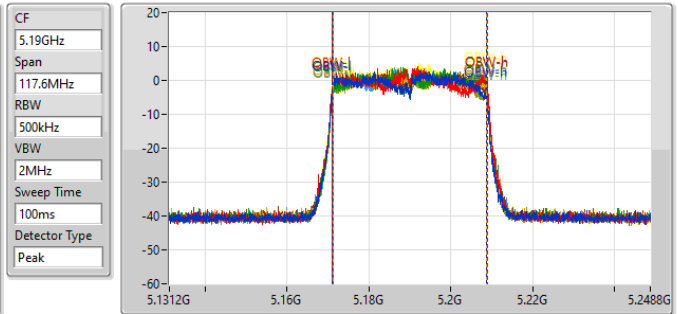
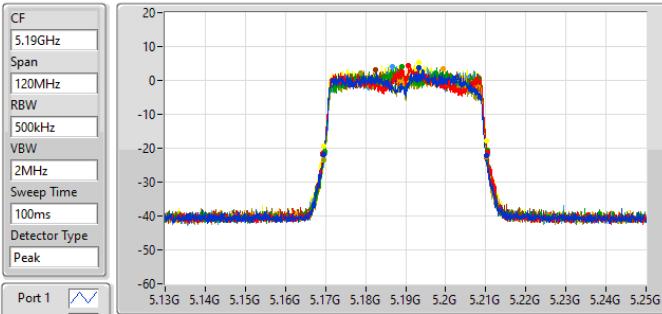


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5190MHz

20/10/2022



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

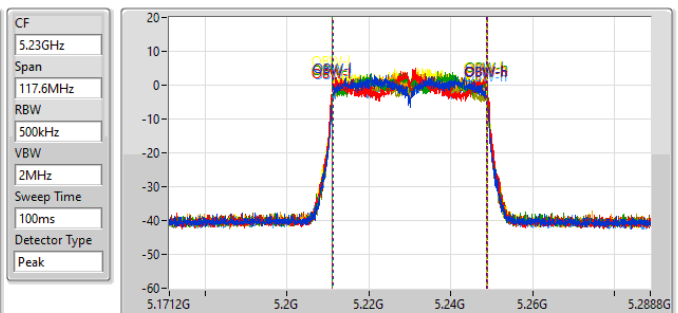
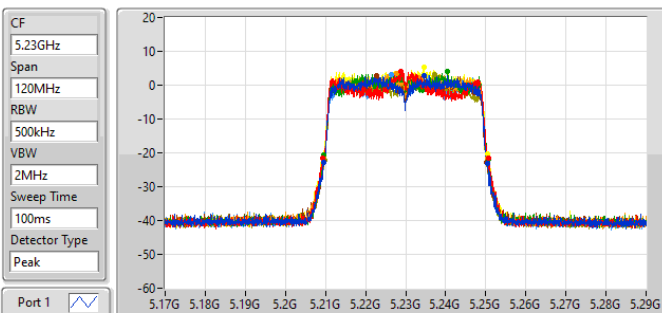
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.62M	5.16954G	5.21016G	37.672M	5.171017G	5.208689G	Inf	1
40.98M	5.16942G	5.2104G	37.966M	5.171017G	5.208983G	Inf	2
40.56M	5.16984G	5.2104G	37.79M	5.171135G	5.208924G	Inf	3
40.56M	5.16966G	5.21022G	37.731M	5.171135G	5.208865G	Inf	4
40.86M	5.16942G	5.21028G	37.731M	5.171076G	5.208807G	Inf	5
40.5M	5.16966G	5.21016G	37.613M	5.171135G	5.208748G	Inf	6
40.62M	5.16984G	5.21046G	37.672M	5.171193G	5.208865G	Inf	7
40.74M	5.16954G	5.21028G	37.848M	5.171017G	5.208865G	Inf	8

5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5230MHz

20/10/2022



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

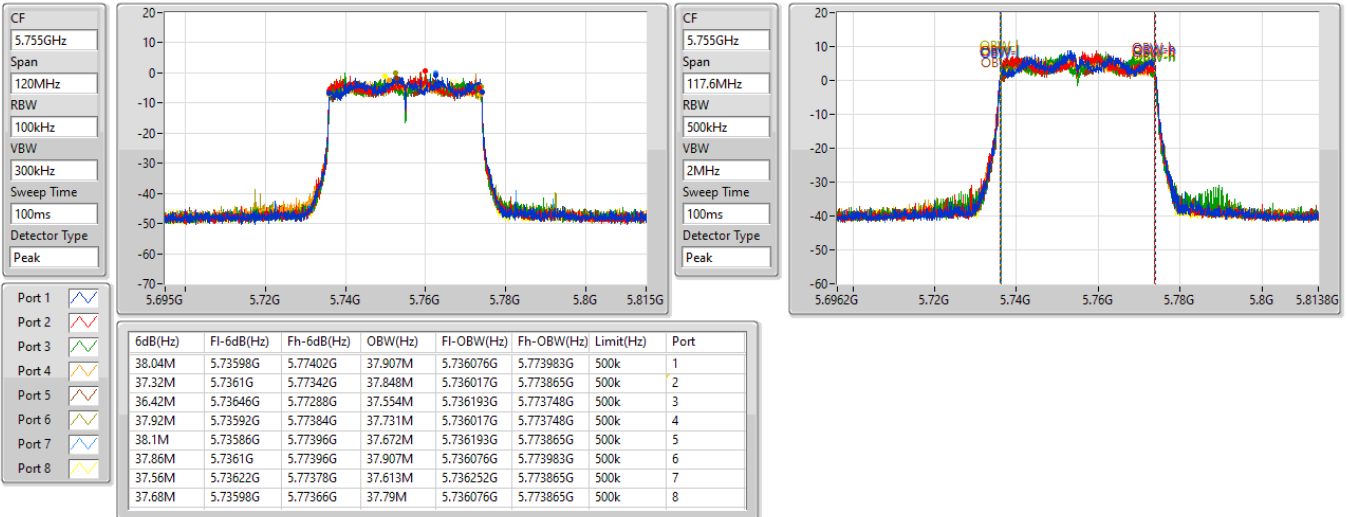
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.86M	5.20948G	5.25034G	37.613M	5.211193G	5.248807G	Inf	1
41.46M	5.20924G	5.2507G	38.142M	5.2109G	5.249042G	Inf	2
41.1M	5.2096G	5.2507G	37.907M	5.211076G	5.248983G	Inf	3
40.92M	5.20954G	5.25046G	37.731M	5.211076G	5.248807G	Inf	4
40.62M	5.2096G	5.25022G	37.672M	5.211076G	5.248748G	Inf	5
40.74M	5.20972G	5.25046G	37.79M	5.211076G	5.248865G	Inf	6
40.92M	5.20948G	5.2504G	37.613M	5.211193G	5.248807G	Inf	7
40.98M	5.20948G	5.25046G	37.79M	5.211076G	5.248865G	Inf	8

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5755MHz

20/10/2022

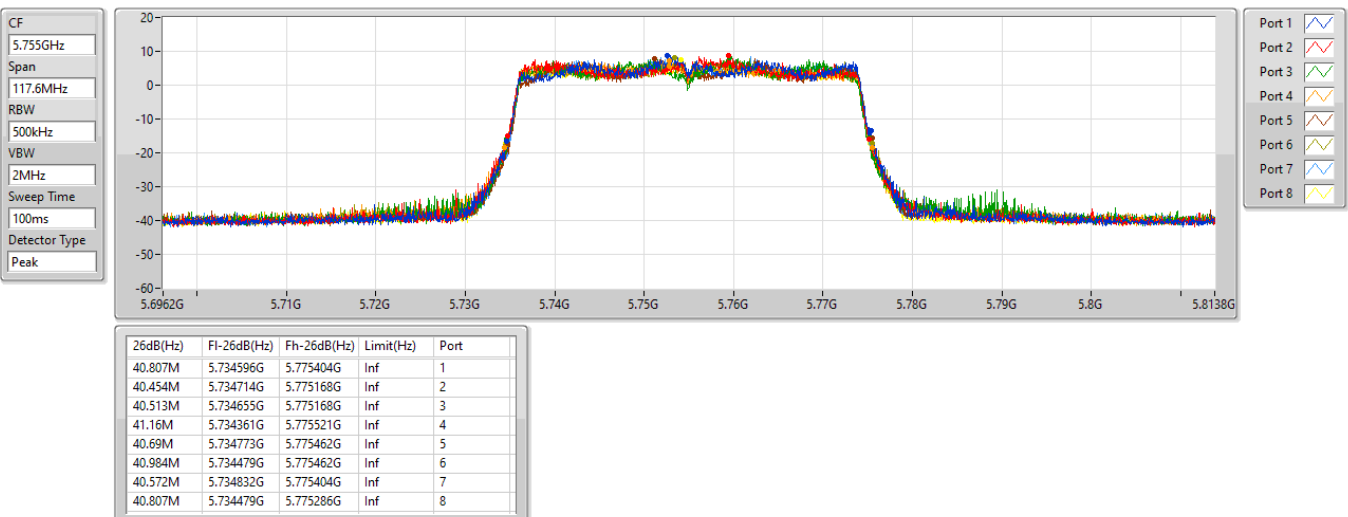


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5755MHz

20/10/2022

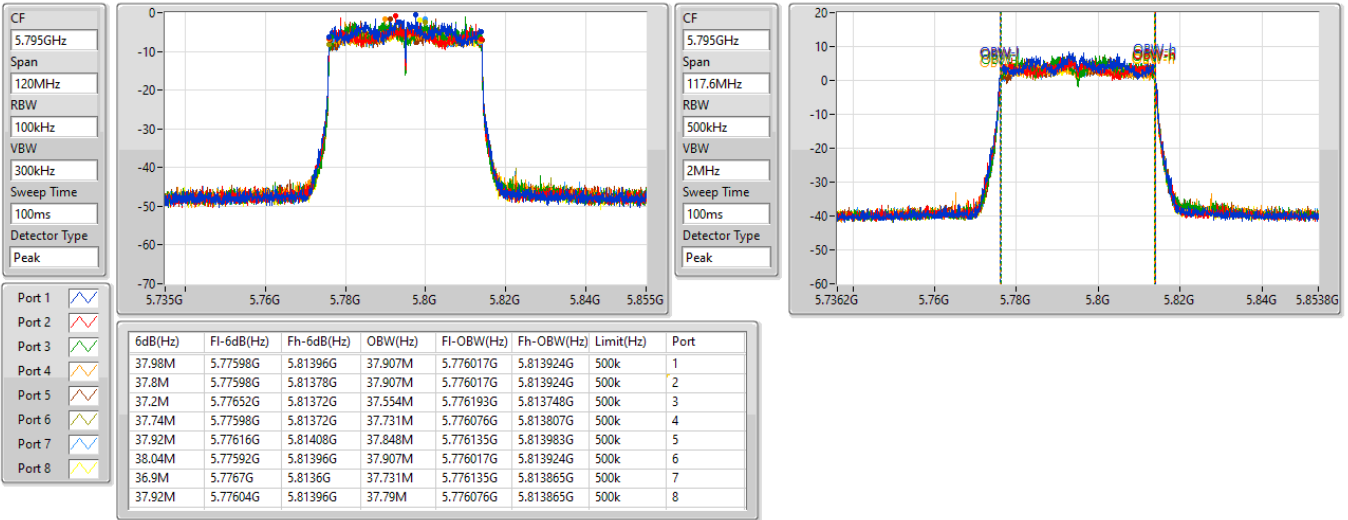


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5795MHz

20/10/2022

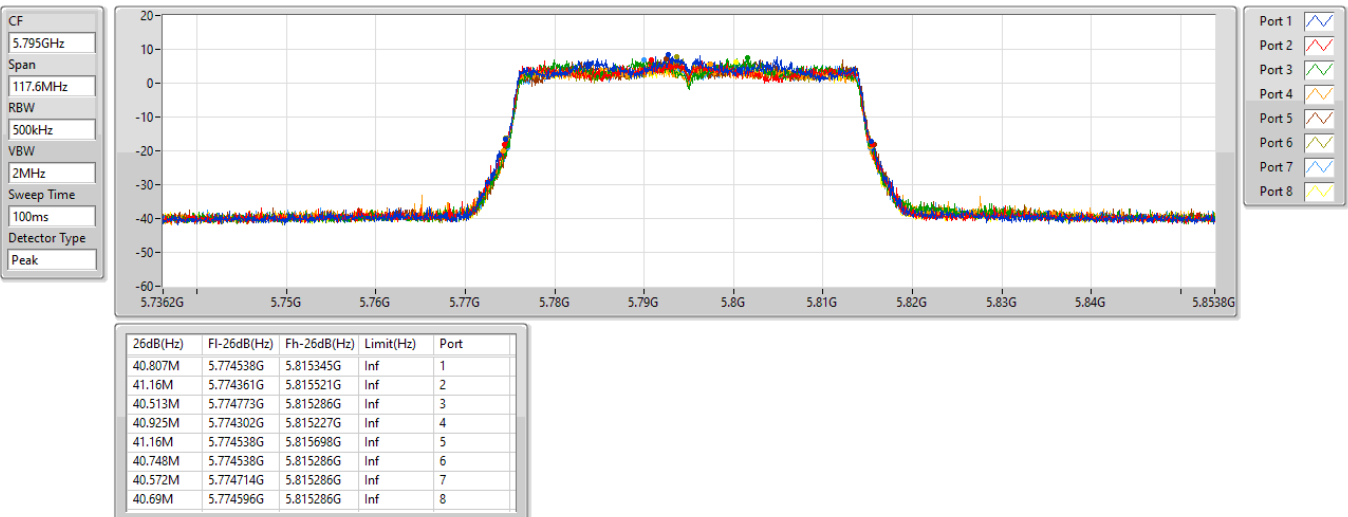


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5795MHz

20/10/2022

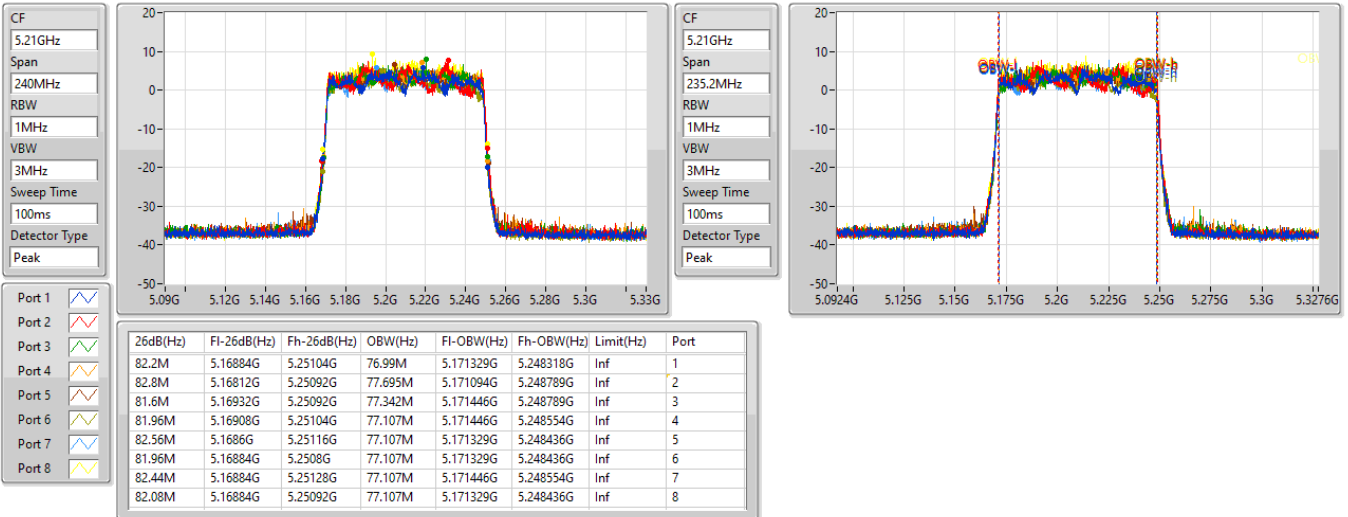


5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_8TX

EBW

5210MHz

20/10/2022

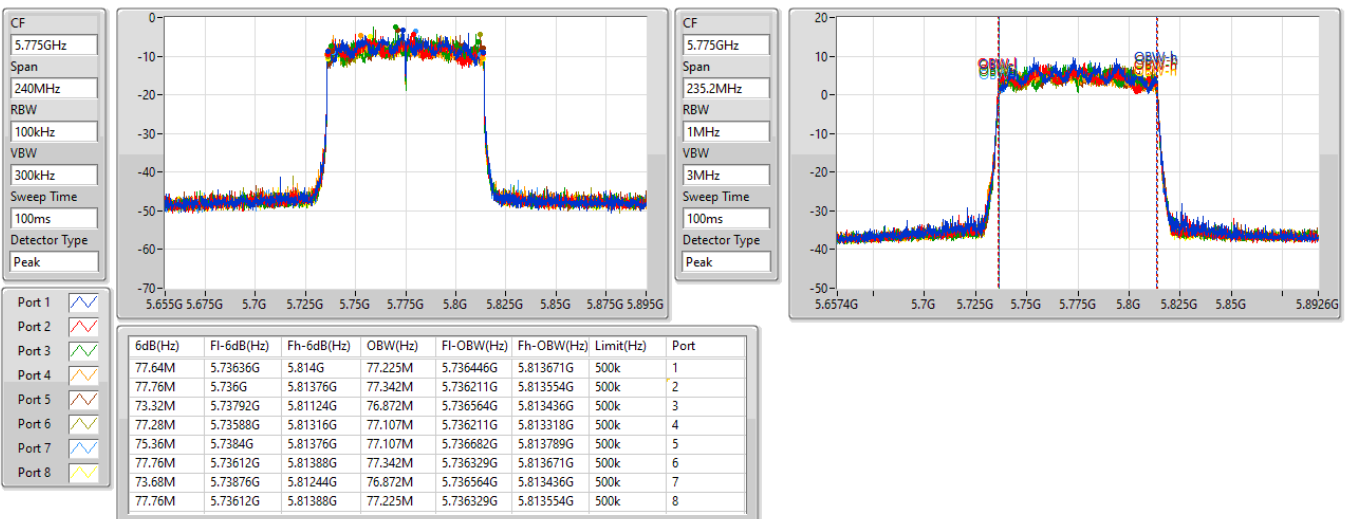


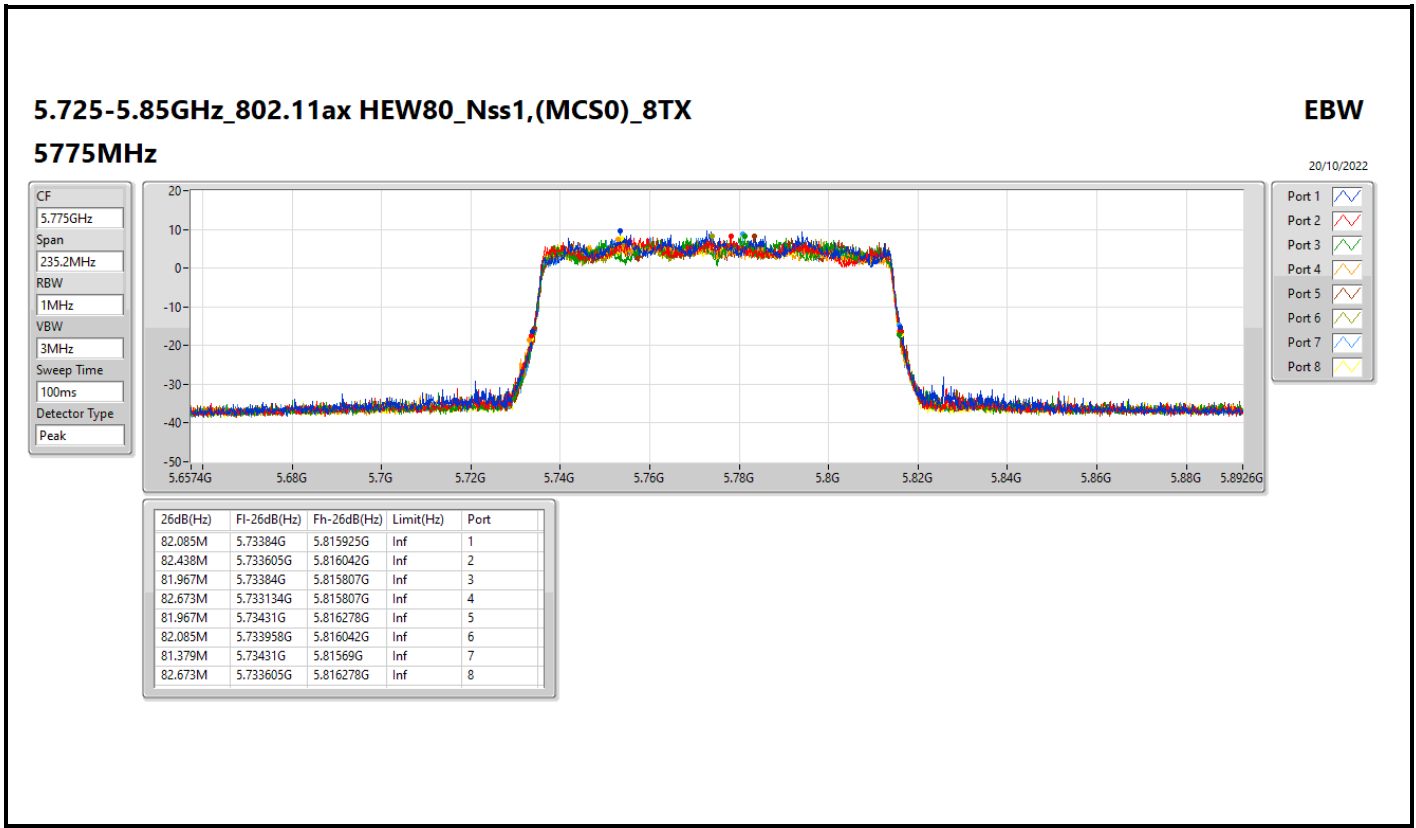
5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_8TX

EBW

5775MHz

20/10/2022







For UNII 1 outdoor
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	19.83M	16.522M	16M5D1D	18.81M	16.342M
802.11ax HEW20_Nss1,(MCS0)_8TX	21.99M	19.13M	19M1D1D	20.55M	18.741M
802.11ax HEW40_Nss1,(MCS0)_8TX	41.22M	38.381M	38M4D1D	40.26M	37.661M
802.11ax HEW80_Nss1,(MCS0)_8TX	82.44M	78.201M	78M2D1D	81.36M	77.121M

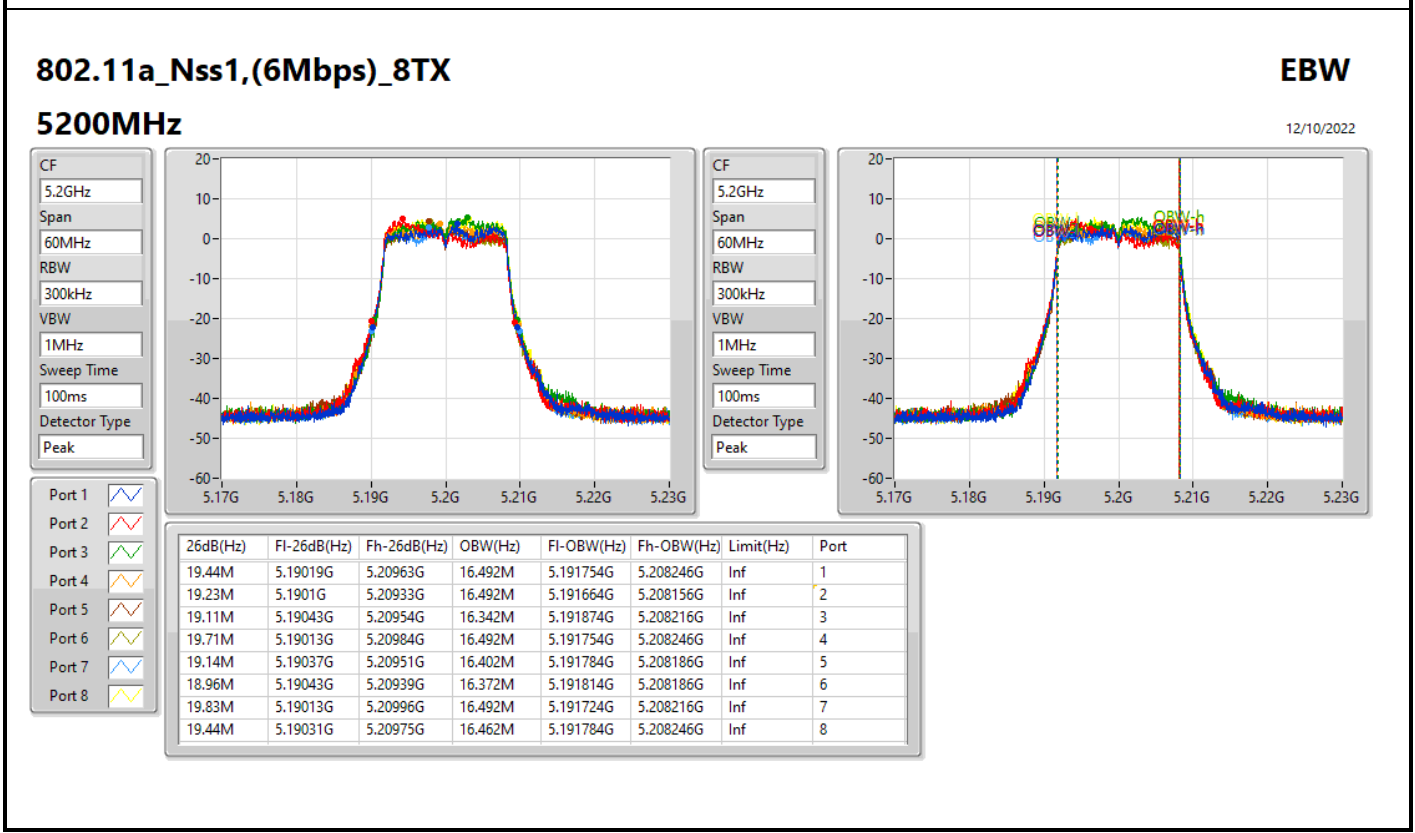
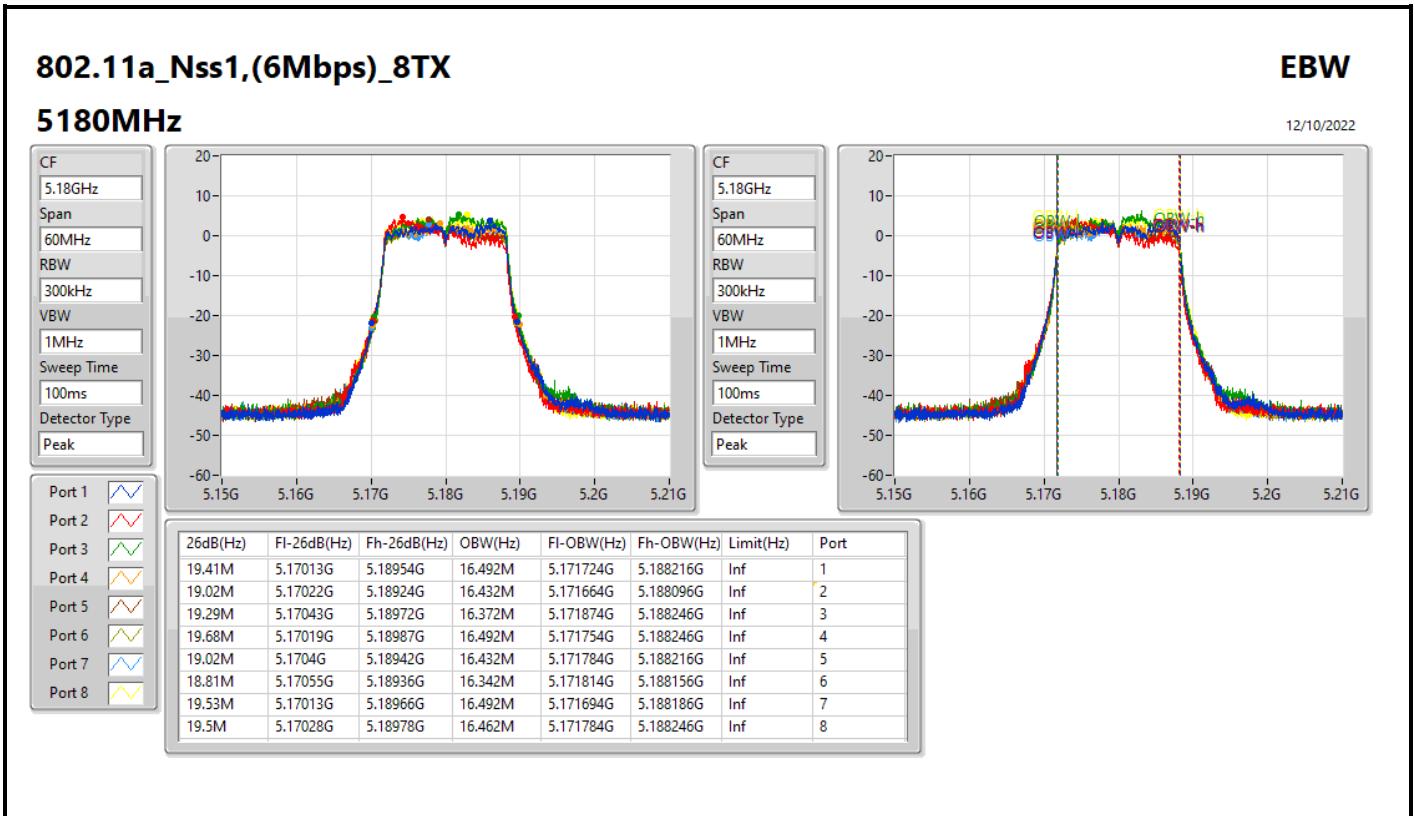
Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.41M	16.492M	19.02M	16.432M	19.29M	16.372M	19.68M	16.492M	19.02M	16.432M	18.81M	16.342M	19.53M	16.492M	19.5M	16.462M
5200MHz	Pass	Inf	19.44M	16.492M	19.23M	16.492M	19.11M	16.342M	19.71M	16.492M	19.14M	16.402M	18.96M	16.372M	19.83M	16.492M	19.44M	16.462M
5240MHz	Pass	Inf	19.23M	16.462M	19.41M	16.402M	19.65M	16.522M	19.44M	16.492M	18.93M	16.342M	19.26M	16.462M	19.53M	16.492M	19.35M	16.402M
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.88M	18.891M	20.79M	18.771M	21M	18.981M	21.33M	18.981M	20.88M	18.861M	21M	18.741M	21.78M	19.04M	21.06M	18.861M
5200MHz	Pass	Inf	20.91M	18.741M	21.99M	19.13M	21.48M	18.981M	21.18M	18.921M	21.42M	19.01M	20.55M	18.831M	21.18M	18.981M	21.42M	19.01M
5240MHz	Pass	Inf	21.75M	19.1M	21.18M	18.921M	20.91M	18.741M	21.12M	18.891M	21.24M	18.981M	21.15M	19.01M	21.48M	19.07M	21.45M	18.921M
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.56M	37.661M	40.86M	38.321M	40.74M	37.961M	40.62M	37.841M	40.8M	37.841M	40.62M	37.781M	40.26M	37.841M	40.8M	38.021M
5230MHz	Pass	Inf	40.86M	37.721M	41.22M	38.381M	40.86M	38.141M	40.98M	37.961M	40.56M	37.841M	40.32M	37.901M	40.68M	37.841M	40.68M	37.961M
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.32M	77.361M	82.44M	78.201M	82.32M	77.361M	82.08M	77.481M	82.08M	77.241M	81.36M	77.121M	82.2M	77.361M	81.96M	77.481M

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



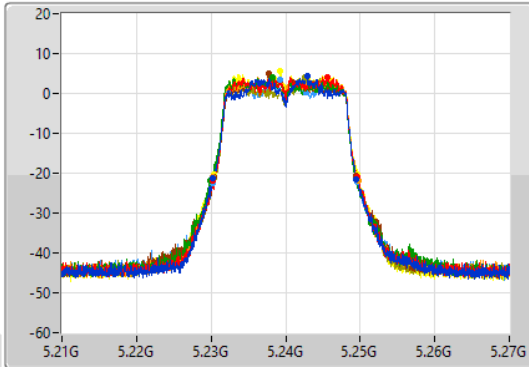
802.11a_Nss1,(6Mbps)_8TX

EBW

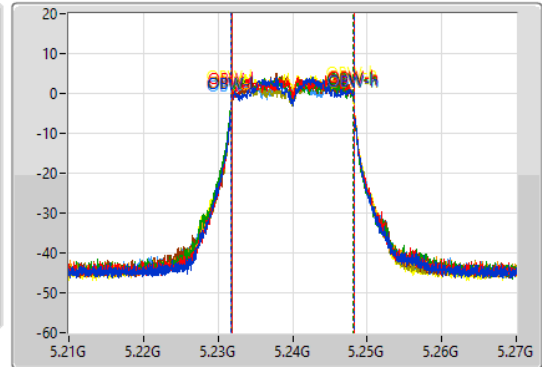
5240MHz

12/10/2022

CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.23M	5.23028G	5.24951G	16.462M	5.231784G	5.248246G	Inf	1
19.41M	5.23028G	5.24969G	16.402M	5.231814G	5.248216G	Inf	2
19.65M	5.22992G	5.24957G	16.522M	5.231664G	5.248186G	Inf	3
19.44M	5.23028G	5.24972G	16.492M	5.231754G	5.248246G	Inf	4
18.93M	5.23046G	5.24939G	16.342M	5.231844G	5.248186G	Inf	5
19.26M	5.2304G	5.24966G	16.462M	5.231784G	5.248246G	Inf	6
19.53M	5.23016G	5.24969G	16.492M	5.231724G	5.248216G	Inf	7
19.35M	5.23034G	5.24969G	16.402M	5.231784G	5.248186G	Inf	8

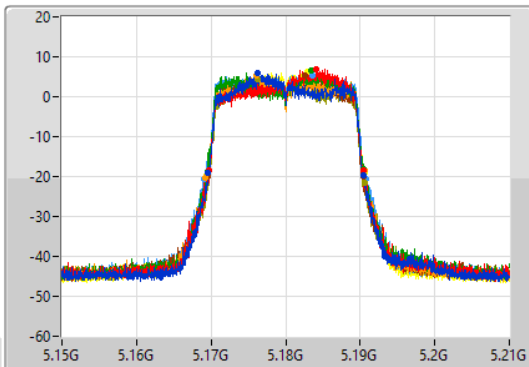
802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

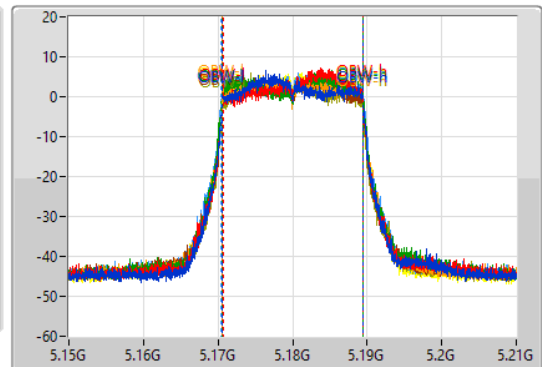
5180MHz

12/10/2022

CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.88M	5.16962G	5.1905G	18.891M	5.170585G	5.189475G	Inf	1
20.79M	5.16965G	5.19044G	18.771M	5.170645G	5.189415G	Inf	2
21M	5.1695G	5.1905G	18.981M	5.170495G	5.189475G	Inf	3
21.33M	5.16926G	5.19059G	18.981M	5.170525G	5.189505G	Inf	4
20.88M	5.1695G	5.19038G	18.861M	5.170555G	5.189415G	Inf	5
21M	5.16962G	5.19062G	18.741M	5.170645G	5.189385G	Inf	6
21.78M	5.16908G	5.19086G	19.04M	5.170465G	5.189505G	Inf	7
21.06M	5.16947G	5.19053G	18.861M	5.170585G	5.189445G	Inf	8

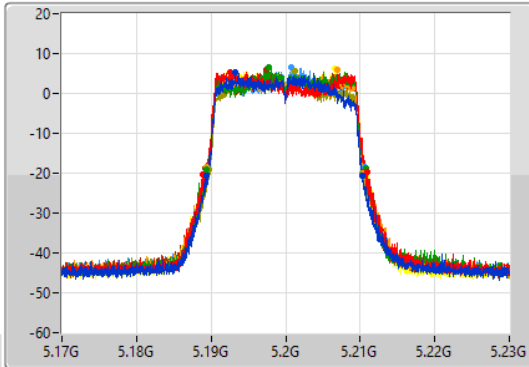
802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

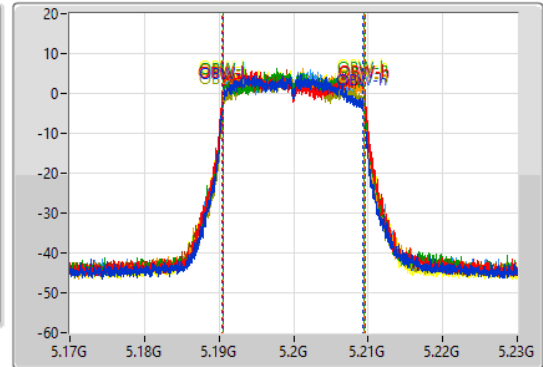
5200MHz

12/10/2022

CF: 5.2GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.2GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.91M	5.18941G	5.21032G	18.741M	5.190555G	5.209295G	Inf	1
21.99M	5.1889G	5.21089G	19.13M	5.190435G	5.209565G	Inf	2
21.48M	5.18935G	5.21083G	18.981M	5.190525G	5.209505G	Inf	3
21.18M	5.18941G	5.21059G	18.921M	5.190525G	5.209445G	Inf	4
21.42M	5.18926G	5.21068G	19.01M	5.190525G	5.209535G	Inf	5
20.55M	5.18968G	5.21023G	18.831M	5.190585G	5.209415G	Inf	6
21.18M	5.18941G	5.21059G	18.981M	5.190525G	5.209505G	Inf	7
21.42M	5.18935G	5.21077G	19.01M	5.190495G	5.209505G	Inf	8

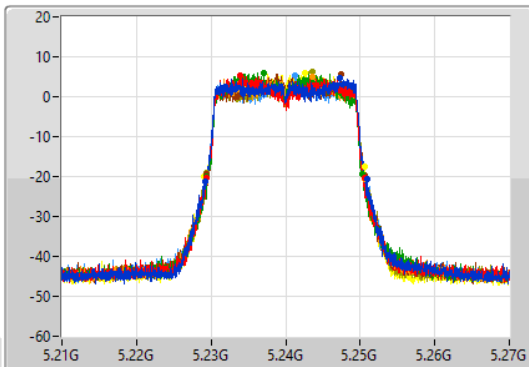
802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

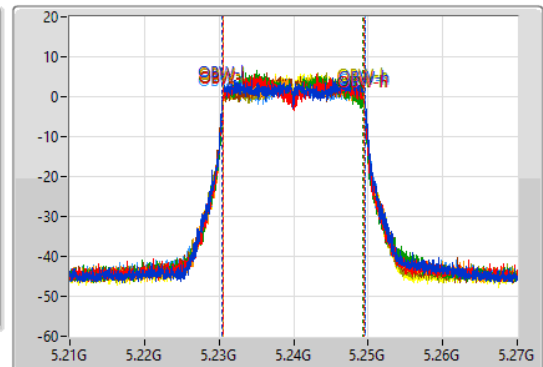
5240MHz

13/10/2022

CF: 5.24GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.24GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.22914G	5.25089G	19.1M	5.230465G	5.249565G	Inf	1
21.18M	5.22941G	5.25059G	18.921M	5.230525G	5.249445G	Inf	2
20.91M	5.22941G	5.25032G	18.741M	5.230615G	5.249355G	Inf	3
21.12M	5.22947G	5.25059G	18.891M	5.230555G	5.249445G	Inf	4
21.24M	5.22944G	5.25068G	18.981M	5.230525G	5.249505G	Inf	5
21.15M	5.22944G	5.25059G	19.01M	5.230495G	5.249505G	Inf	6
21.48M	5.22938G	5.25086G	19.07M	5.230465G	5.249535G	Inf	7
21.45M	5.22911G	5.25056G	18.921M	5.230555G	5.249475G	Inf	8

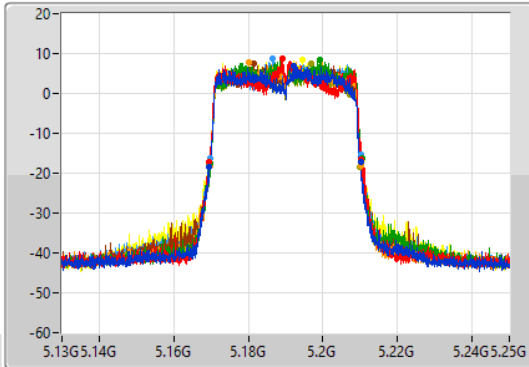
802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

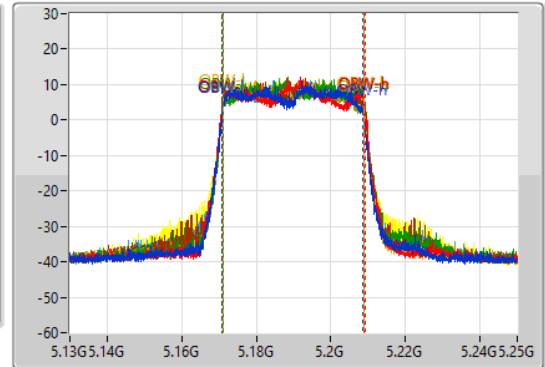
5190MHz

14/10/2022

CF: 5.19GHz
 Span: 120MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.19GHz
 Span: 120MHz
 RBW: 1MHz
 VBW: 3MHz
 Sweep Time: 100ms
 Detector Type: Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.56M	5.16954G	5.2101G	37.661M	5.17093G	5.208591G	Inf	1
40.86M	5.16948G	5.21034G	38.321M	5.17081G	5.20913G	Inf	2
40.74M	5.16972G	5.21046G	37.961M	5.171109G	5.20907G	Inf	3
40.62M	5.16972G	5.21034G	37.841M	5.171049G	5.208891G	Inf	4
40.8M	5.16954G	5.21034G	37.841M	5.171049G	5.208891G	Inf	5
40.62M	5.16942G	5.21004G	37.781M	5.17099G	5.208771G	Inf	6
40.26M	5.16984G	5.2101G	37.841M	5.171109G	5.208951G	Inf	7
40.8M	5.1696G	5.2104G	38.021M	5.17099G	5.20901G	Inf	8

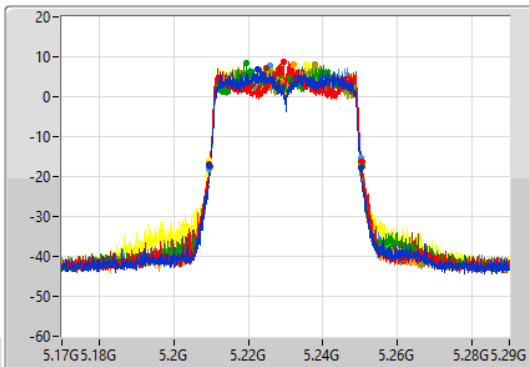
802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

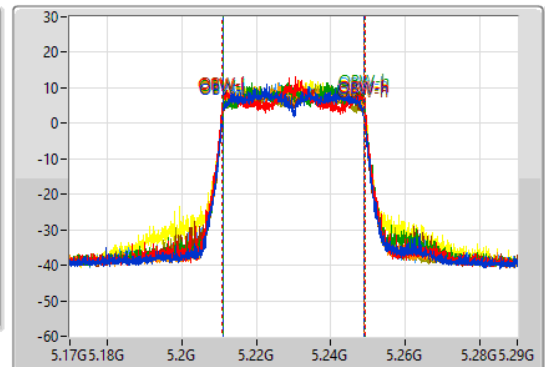
5230MHz

14/10/2022

CF: 5.23GHz
 Span: 120MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.23GHz
 Span: 120MHz
 RBW: 1MHz
 VBW: 3MHz
 Sweep Time: 100ms
 Detector Type: Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.86M	5.20942G	5.25028G	37.721M	5.211109G	5.248831G	Inf	1
41.22M	5.20942G	5.25064G	38.381M	5.21081G	5.24919G	Inf	2
40.86M	5.20954G	5.2504G	38.141M	5.21099G	5.24913G	Inf	3
40.98M	5.20948G	5.25046G	37.961M	5.21099G	5.248951G	Inf	4
40.56M	5.20966G	5.25022G	37.841M	5.21099G	5.248831G	Inf	5
40.32M	5.20984G	5.25016G	37.901M	5.211049G	5.248951G	Inf	6
40.68M	5.2096G	5.25028G	37.841M	5.211049G	5.248891G	Inf	7
40.68M	5.2096G	5.25028G	37.961M	5.21099G	5.248951G	Inf	8

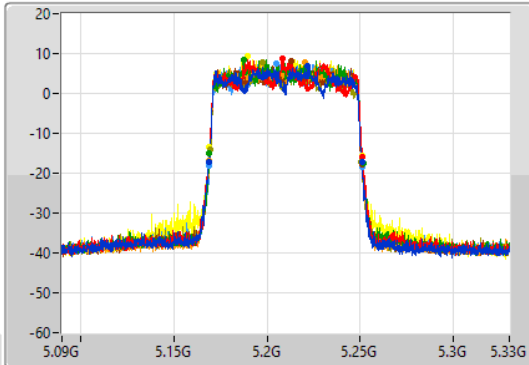
802.11ax HEW80_Nss1,(MCS0)_8TX

EBW

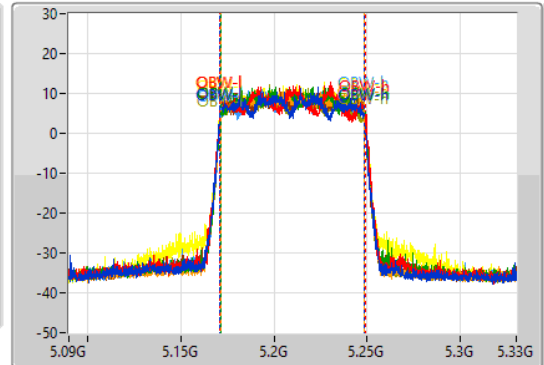
5210MHz









13/10/2022

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



- Port 1 
- Port 2 
- Port 3 
- Port 4 
- Port 5 
- Port 6 
- Port 7 
- Port 8 

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.32M	5.1686G	5.25092G	77.361M	5.171019G	5.248381G	Inf	1
82.44M	5.1686G	5.25104G	78.201M	5.1709G	5.2491G	Inf	2
82.32M	5.1692G	5.25152G	77.361M	5.171499G	5.248861G	Inf	3
82.08M	5.1692G	5.25128G	77.481M	5.171259G	5.248741G	Inf	4
82.08M	5.16896G	5.25104G	77.241M	5.171259G	5.248501G	Inf	5
81.36M	5.16932G	5.25068G	77.121M	5.171259G	5.248381G	Inf	6
82.2M	5.16908G	5.25128G	77.361M	5.171379G	5.248741G	Inf	7
81.96M	5.1692G	5.25116G	77.481M	5.171259G	5.248741G	Inf	8



For UNII 1 outdoor
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	19.86M	16.439M	16M4D1D	18.93M	16.312M
802.11ax HEW20_Nss1,(MCS0)_8TX	21.75M	19.071M	19M1D1D	20.52M	18.777M
802.11ax HEW40_Nss1,(MCS0)_8TX	41.52M	37.966M	38M0D1D	40.38M	37.496M
802.11ax HEW80_Nss1,(MCS0)_8TX	82.68M	77.342M	77M3D1D	81.6M	76.872M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.56M	16.337M	19.17M	16.414M	19.5M	16.414M	19.86M	16.439M	18.93M	16.337M	19.77M	16.439M	19.53M	16.312M	19.29M	16.439M
5200MHz	Pass	Inf	19.32M	16.363M	19.32M	16.337M	19.47M	16.439M	19.86M	16.439M	19.44M	16.388M	19.68M	16.439M	19.62M	16.337M	19.56M	16.439M
5240MHz	Pass	Inf	19.32M	16.312M	19.5M	16.414M	19.41M	16.414M	19.59M	16.439M	19.5M	16.414M	19.29M	16.337M	19.29M	16.363M	19.26M	16.414M
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.36M	18.954M	21.27M	18.924M	20.91M	18.836M	21.27M	18.865M	21.3M	18.954M	21.3M	18.983M	21.15M	18.924M	21.75M	19.012M
5200MHz	Pass	Inf	21.3M	18.777M	21.6M	19.071M	21.33M	19.012M	21.3M	18.895M	21.18M	18.954M	21.36M	18.983M	21.09M	18.836M	21.33M	18.983M
5240MHz	Pass	Inf	21.39M	18.954M	20.52M	18.807M	21.33M	18.983M	21.6M	18.954M	21.27M	19.012M	20.94M	18.865M	21.33M	19.042M	21.39M	18.983M
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.28M	37.848M	40.92M	37.672M	40.68M	37.496M	40.8M	37.613M	40.62M	37.672M	40.38M	37.554M	41.52M	37.966M	40.68M	37.672M
5230MHz	Pass	Inf	40.74M	37.907M	40.8M	37.79M	40.8M	37.496M	40.74M	37.672M	40.56M	37.613M	40.38M	37.554M	41.16M	37.966M	40.68M	37.731M
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	77.342M	82.68M	77.225M	81.6M	76.872M	81.96M	76.872M	82.2M	77.107M	81.84M	76.872M	82.44M	77.342M	82.44M	77.107M

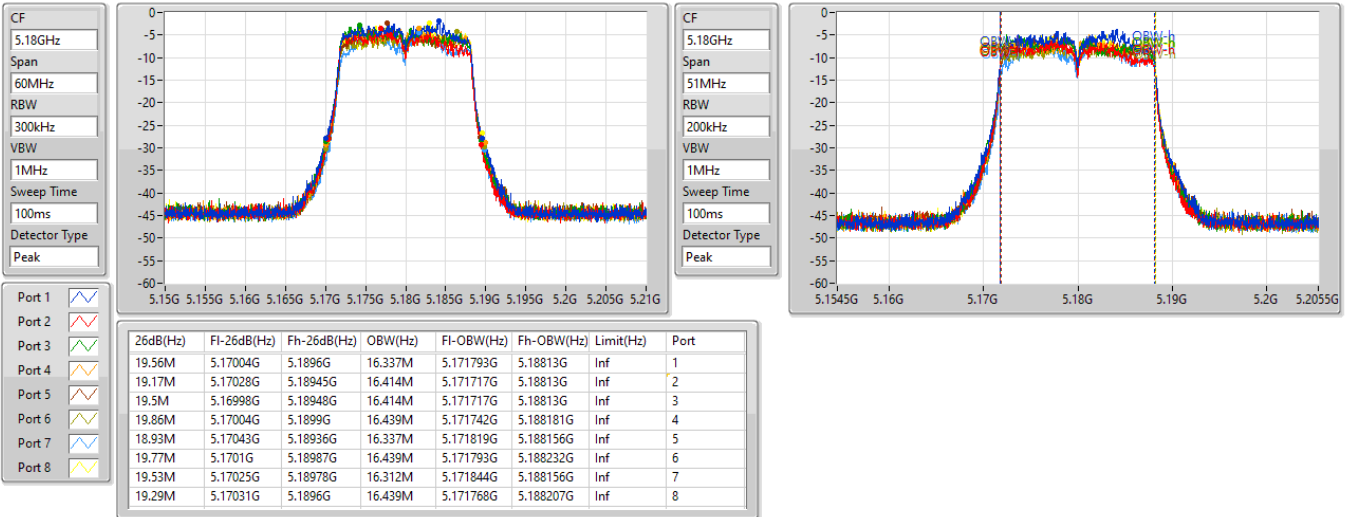
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_8TX

EBW

5180MHz

02/11/2022

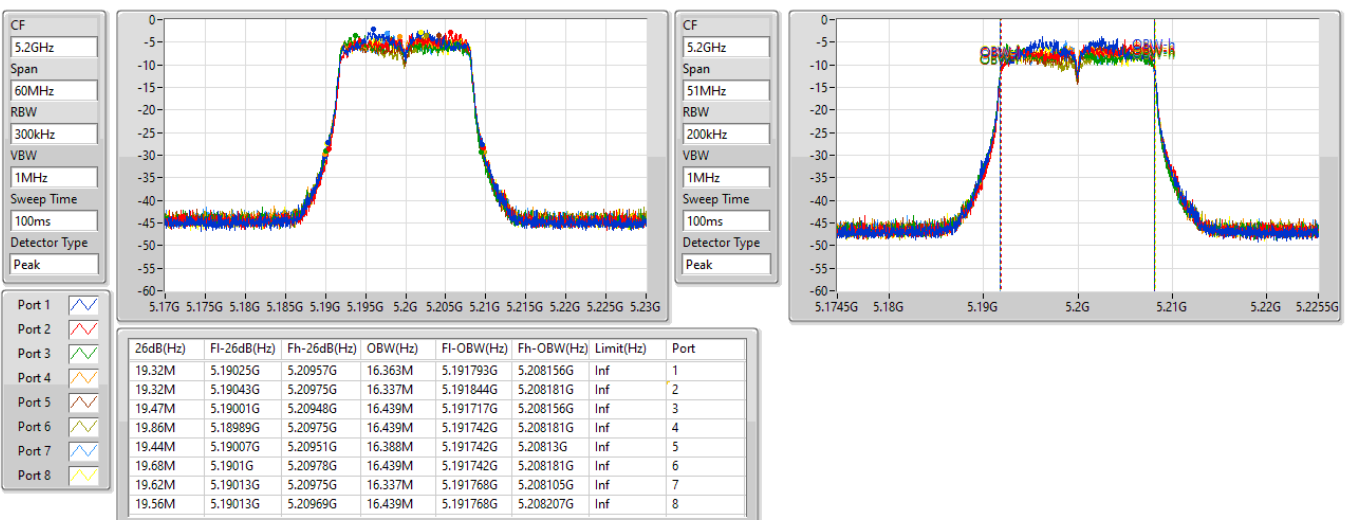


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_8TX

EBW

5200MHz

02/11/2022



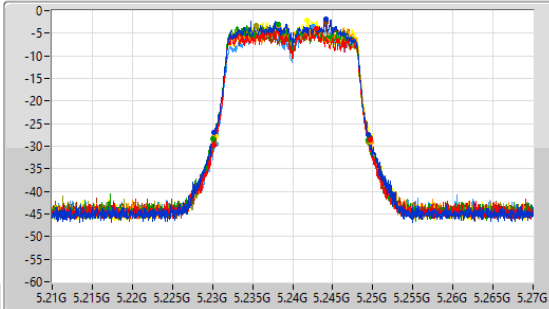
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_8TX

EBW

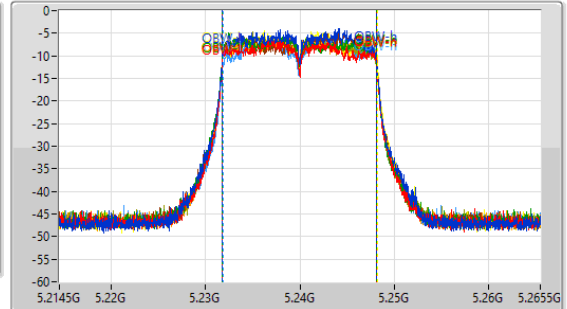
5240MHz

02/11/2022

CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
51MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.32M	5.23013G	5.24945G	16.312M	5.231793G	5.248105G	Inf	1
19.5M	5.23013G	5.24963G	16.414M	5.231742G	5.248156G	Inf	2
19.41M	5.23001G	5.24942G	16.414M	5.231717G	5.24813G	Inf	3
19.59M	5.23022G	5.24981G	16.439M	5.231742G	5.248181G	Inf	4
19.5M	5.23019G	5.24969G	16.414M	5.231742G	5.248156G	Inf	5
19.29M	5.23019G	5.24948G	16.337M	5.231768G	5.248105G	Inf	6
19.29M	5.2304G	5.24969G	16.363M	5.231819G	5.248181G	Inf	7
19.26M	5.23043G	5.24969G	16.414M	5.231793G	5.248207G	Inf	8

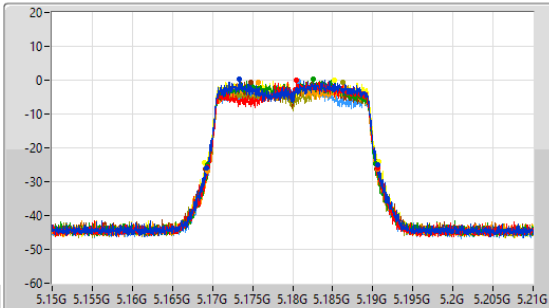
5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

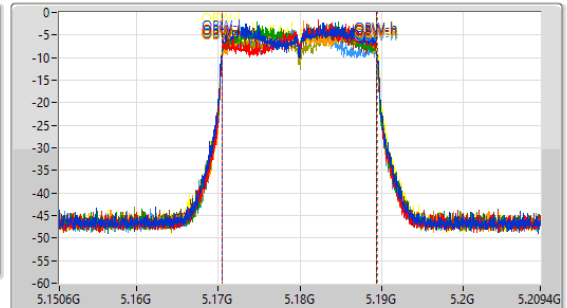
5180MHz

02/11/2022

CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
58.8MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

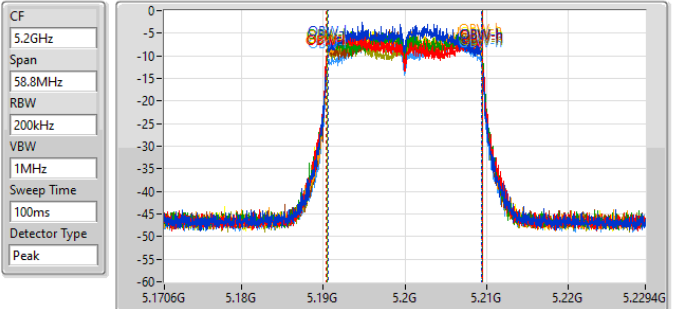
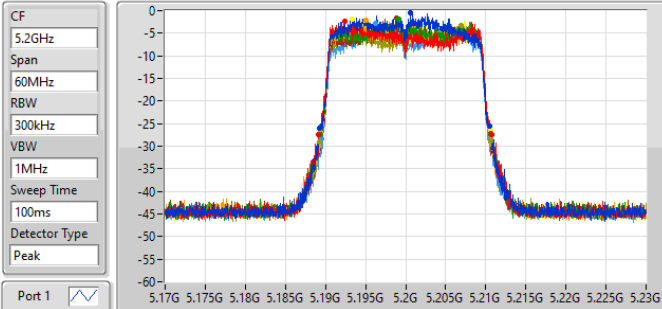
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.36M	5.1692G	5.19056G	18.954M	5.170479G	5.189433G	Inf	1
21.27M	5.16935G	5.19062G	18.924M	5.170509G	5.189433G	Inf	2
20.91M	5.16944G	5.19035G	18.836M	5.170538G	5.189374G	Inf	3
21.27M	5.16938G	5.19065G	18.865M	5.170538G	5.189403G	Inf	4
21.3M	5.16917G	5.19047G	18.954M	5.170479G	5.189433G	Inf	5
21.3M	5.16926G	5.19056G	18.983M	5.170479G	5.189462G	Inf	6
21.15M	5.16935G	5.1905G	18.924M	5.170509G	5.189433G	Inf	7
21.75M	5.16896G	5.19071G	19.012M	5.170479G	5.189491G	Inf	8

5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5200MHz

02/11/2022



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

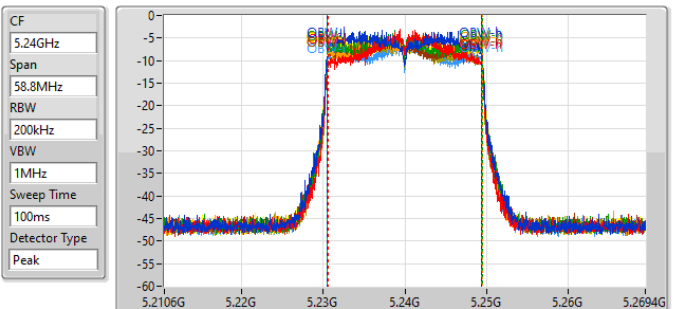
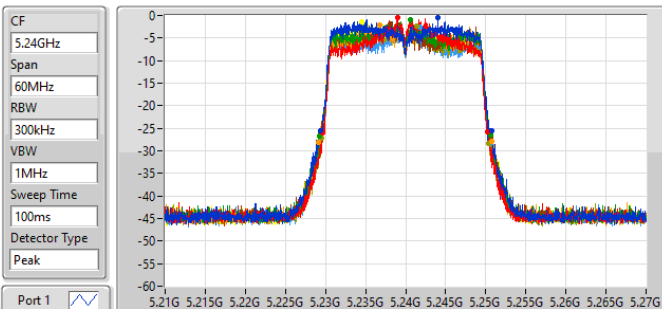
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.3M	5.18923G	5.21053G	18.777M	5.190567G	5.209345G	Inf	1
21.6M	5.18911G	5.21071G	19.071M	5.19042G	5.209491G	Inf	2
21.33M	5.18932G	5.21065G	19.012M	5.190479G	5.209491G	Inf	3
21.3M	5.18935G	5.21065G	18.895M	5.190538G	5.209433G	Inf	4
21.18M	5.18941G	5.21059G	18.954M	5.190509G	5.209462G	Inf	5
21.36M	5.18923G	5.21059G	18.983M	5.190479G	5.209462G	Inf	6
21.09M	5.18956G	5.21065G	18.836M	5.190567G	5.209403G	Inf	7
21.33M	5.18926G	5.21059G	18.983M	5.190479G	5.209462G	Inf	8

5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5240MHz

02/11/2022



- Port 1
- Port 2
- Port 3
- Port 4
- Port 5
- Port 6
- Port 7
- Port 8

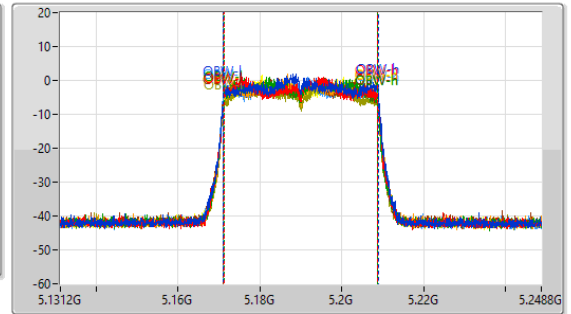
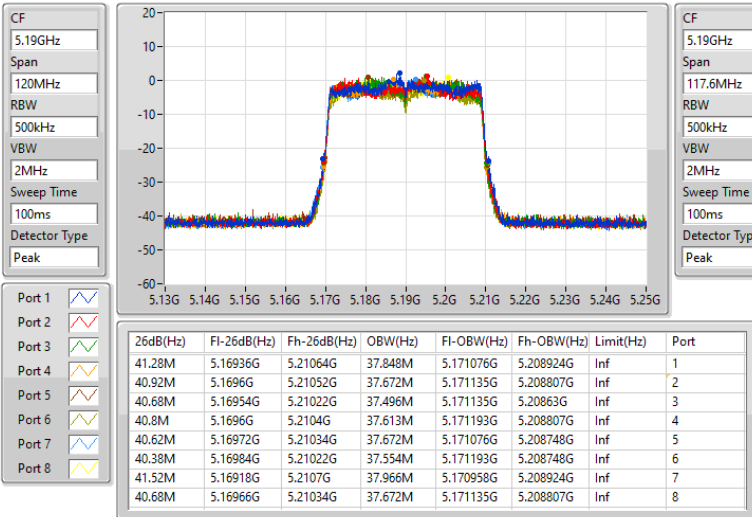
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.39M	5.22935G	5.25074G	18.954M	5.230479G	5.249433G	Inf	1
20.52M	5.22971G	5.25023G	18.807M	5.230567G	5.249374G	Inf	2
21.33M	5.22926G	5.25059G	18.983M	5.230479G	5.249462G	Inf	3
21.6M	5.22917G	5.25077G	18.954M	5.230509G	5.249462G	Inf	4
21.27M	5.22932G	5.25059G	19.012M	5.230479G	5.249491G	Inf	5
20.94M	5.22947G	5.25041G	18.865M	5.230538G	5.249403G	Inf	6
21.33M	5.22935G	5.25068G	19.042M	5.23045G	5.249491G	Inf	7
21.39M	5.22923G	5.25062G	18.983M	5.230479G	5.249462G	Inf	8

5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5190MHz

02/11/2022

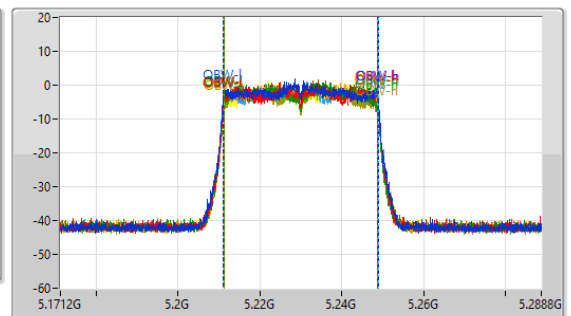
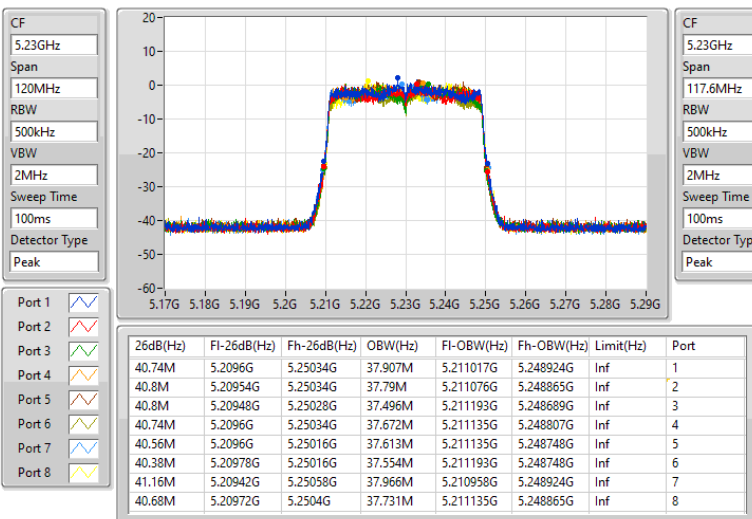


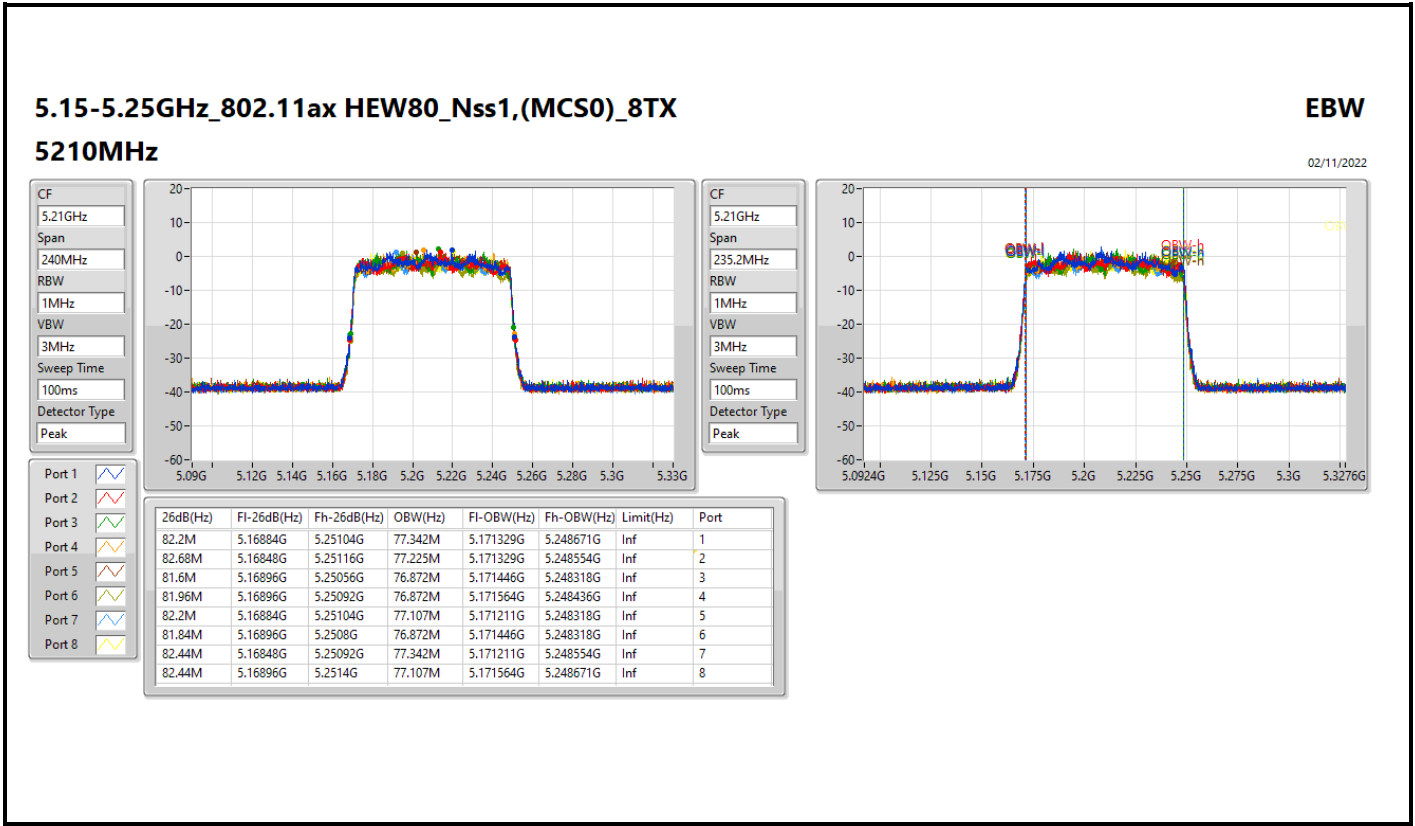
5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5230MHz

02/11/2022







For UNII 1 indoor + UNII 3 indoor + outdoor
Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	20.31	0.10740
802.11ax HEW20_Nss1,(MCS0)_8TX	21.21	0.13213
802.11ax HEW40_Nss1,(MCS0)_8TX	24.17	0.26122
802.11ax HEW80_Nss1,(MCS0)_8TX	23.15	0.20654
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	26.37	0.43351
802.11ax HEW20_Nss1,(MCS0)_8TX	26.49	0.44566
802.11ax HEW40_Nss1,(MCS0)_8TX	28.75	0.74989
802.11ax HEW80_Nss1,(MCS0)_8TX	25.13	0.32584



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.22	10.80	10.43	12.20	10.69	10.40	10.41	10.23	12.19	20.02	26.78
5200MHz	Pass	9.22	10.66	10.67	12.17	11.16	10.60	10.31	10.19	12.13	20.08	26.78
5240MHz	Pass	9.22	10.96	11.58	11.17	11.41	11.26	10.74	10.72	12.17	20.31	26.78
5720MHz Straddle 5.725-5.85GHz												
5745MHz	Pass	9.49	17.14	17.89	18.26	17.95	16.80	17.44	16.38	16.35	26.36	26.51
5785MHz	Pass	9.49	17.98	17.71	18.48	16.76	16.71	17.47	16.49	16.72	26.37	26.51
5825MHz	Pass	9.49	17.16	16.93	18.36	17.55	16.72	16.94	16.44	16.39	26.14	26.51
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.22	10.72	11.62	11.59	10.67	10.59	10.15	11.50	11.68	20.13	26.78
5200MHz	Pass	9.22	10.51	11.27	11.53	11.38	11.03	10.00	11.41	11.97	20.21	26.78
5240MHz	Pass	9.22	11.74	12.04	12.74	12.13	12.10	12.07	11.54	12.88	21.21	26.78
5720MHz Straddle 5.725-5.85GHz												
5745MHz	Pass	9.49	17.14	17.42	18.35	17.42	16.71	17.04	16.46	16.51	26.20	26.51
5785MHz	Pass	9.49	17.80	17.48	18.69	16.95	16.82	16.80	16.71	16.73	26.33	26.51
5825MHz	Pass	9.49	17.58	17.80	17.77	18.01	16.88	17.11	17.29	17.08	26.49	26.51
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.22	14.68	15.03	15.72	15.06	15.15	14.32	14.86	15.85	24.14	29.78
5230MHz	Pass	6.22	14.83	15.09	15.67	15.33	14.89	14.55	14.38	16.08	24.17	29.78
5710MHz Straddle 5.725-5.85GHz												
5755MHz	Pass	6.49	19.54	19.50	19.67	19.02	17.99	17.91	18.11	17.98	27.81	29.51
5795MHz	Pass	6.49	20.81	20.40	20.84	19.20	18.89	18.78	19.32	18.83	28.75	29.51
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.22	13.59	14.27	14.68	14.09	13.89	13.37	13.75	15.06	23.15	29.78
5690MHz Straddle 5.725-5.85GHz												
5775MHz	Pass	6.49	17.03	16.51	16.72	15.92	15.41	15.45	16.12	15.27	25.13	29.51

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



For UNII 1 indoor + UNII 3 indoor + outdoor

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	20.73	0.11830
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	21.13	0.12972
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	20.73	0.11830
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	20.88	0.12246
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	20.70	0.11749
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	20.54	0.11324



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	14.86	10.72	11.62	11.59	10.67	10.59	10.15	11.50	11.68	20.13	21.14
5200MHz	Pass	14.86	10.51	11.27	11.53	11.38	11.03	10.00	11.41	11.97	20.21	21.14
5240MHz	Pass	14.86	10.90	11.27	12.23	12.25	10.90	11.75	11.42	12.55	20.73	21.14
5745MHz	Pass	15.06	11.35	11.88	12.81	12.65	11.05	11.51	12.07	11.06	20.88	20.94
5785MHz	Pass	15.06	11.95	11.85	12.50	11.03	10.81	11.29	11.72	11.07	20.59	20.94
5825MHz	Pass	15.06	11.59	11.49	12.51	11.24	10.96	11.19	11.32	10.92	20.46	20.94
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	14.86	11.48	11.88	12.62	12.26	11.67	11.11	12.36	13.02	21.12	21.14
5230MHz	Pass	14.86	11.19	11.38	12.15	12.15	11.06	11.25	11.78	12.55	20.75	21.14
5755MHz	Pass	15.06	11.84	11.87	12.22	12.07	10.57	11.03	12.28	11.17	20.70	20.94
5795MHz	Pass	15.06	12.20	11.69	12.07	11.40	10.67	10.75	11.50	10.90	20.46	20.94
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	14.86	10.95	11.77	12.06	12.02	11.22	10.95	11.79	12.57	20.73	21.14
5775MHz	Pass	15.06	12.22	11.85	12.09	11.61	10.45	10.91	11.70	10.95	20.54	20.94

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



For UNII 1 indoor + UNII 3 indoor + outdoor

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	15.52	0.03565
802.11ax HEW20_Nss1,(MCS0)_8TX	15.74	0.03750
802.11ax HEW40_Nss1,(MCS0)_8TX	18.14	0.06516
802.11ax HEW80_Nss1,(MCS0)_8TX	20.72	0.11803
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	18.80	0.07586
802.11ax HEW20_Nss1,(MCS0)_8TX	18.76	0.07516
802.11ax HEW40_Nss1,(MCS0)_8TX	21.70	0.14791
802.11ax HEW80_Nss1,(MCS0)_8TX	21.52	0.14191



Average Power_Mode 2 / Antenna Set 2 (Patch)

Appendix C.3

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	17.08	6.50	5.75	6.99	6.56	6.28	5.57	5.81	7.80	15.50	18.92
5200MHz	Pass	17.08	5.77	5.57	6.55	6.71	5.87	4.84	5.51	7.39	15.12	18.92
5240MHz	Pass	17.08	6.21	5.32	6.94	6.74	6.13	5.76	6.07	8.12	15.52	18.92
5745MHz	Pass	17.18	9.21	10.19	10.14	10.04	9.35	10.10	9.85	9.09	18.80	18.82
5785MHz	Pass	17.18	10.10	9.35	10.56	9.03	8.96	9.81	9.41	8.76	18.57	18.82
5825MHz	Pass	17.18	9.55	9.50	9.32	10.98	9.19	9.49	9.91	8.93	18.68	18.82
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	17.08	6.60	6.82	7.19	6.60	6.15	5.81	6.28	7.90	15.74	18.92
5200MHz	Pass	17.08	5.76	6.64	6.90	6.67	5.47	4.55	6.41	7.30	15.32	18.92
5240MHz	Pass	17.08	5.94	6.02	6.44	6.74	5.78	5.79	4.72	8.00	15.30	18.92
5745MHz	Pass	17.18	9.17	9.67	10.47	9.93	9.34	9.08	9.41	8.92	18.56	18.82
5785MHz	Pass	17.18	10.29	9.19	9.64	8.58	9.19	9.69	9.30	8.75	18.39	18.82
5825MHz	Pass	17.18	9.47	9.72	10.20	10.74	9.36	9.16	9.81	9.10	18.76	18.82
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	14.08	7.90	8.84	9.22	9.13	8.88	7.54	8.88	10.49	17.97	21.92
5230MHz	Pass	14.08	8.81	8.56	9.35	9.53	8.76	8.21	8.38	10.69	18.14	21.92
5755MHz	Pass	14.18	12.43	12.58	12.38	12.16	12.07	12.32	12.67	11.90	21.35	21.82
5795MHz	Pass	14.18	13.70	12.63	13.22	12.11	12.90	12.57	12.11	11.81	21.70	21.82
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	14.08	11.10	11.54	11.88	12.10	11.75	10.44	11.02	13.14	20.72	21.92
5775MHz	Pass	14.18	12.99	12.47	12.70	12.26	12.65	12.22	12.57	11.98	21.52	21.82

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



For UNII 1 indoor + UNII 3 indoor + outdoor

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	15.74	0.03750
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	16.01	0.03990
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	15.89	0.03882
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	16.22	0.04188
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	16.17	0.04140
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	16.10	0.04074



Average Power_Mode 2 / Antenna Set 2 (Patch)

Appendix C.4

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	19.71	6.60	6.82	7.19	6.60	6.15	5.81	6.28	7.90	15.74	16.29
5200MHz	Pass	19.71	5.76	6.64	6.90	6.67	5.47	4.55	6.41	7.30	15.32	16.29
5240MHz	Pass	19.71	5.94	6.02	6.44	6.74	5.78	5.79	4.72	8.00	15.30	16.29
5745MHz	Pass	19.74	5.71	6.98	7.89	7.54	6.76	6.52	7.13	6.16	15.92	16.26
5785MHz	Pass	19.74	7.69	6.79	8.31	6.65	7.27	6.86	7.17	6.50	16.22	16.26
5825MHz	Pass	19.74	7.19	6.93	6.54	7.53	6.97	6.14	7.12	5.61	15.82	16.26
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	19.71	6.47	6.60	7.10	6.97	6.95	5.31	6.41	8.14	15.84	16.29
5230MHz	Pass	19.71	6.68	6.50	7.15	7.23	6.94	6.03	6.17	8.61	16.01	16.29
5755MHz	Pass	19.74	7.24	7.50	7.45	7.02	6.98	6.99	7.23	6.64	16.17	16.26
5795MHz	Pass	19.74	8.20	7.16	7.43	6.20	7.24	6.68	6.74	6.52	16.09	16.26
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	19.71	6.25	6.69	7.09	7.03	6.97	5.56	6.11	8.50	15.89	16.29
5775MHz	Pass	19.74	7.88	7.33	7.27	6.39	7.23	6.80	7.06	6.43	16.10	16.26

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



For UNII 1 outdoor
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP / Elevation angle higher than 30° EIRP (dBm)	EIRP / Elevation angle higher than 30° EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	20.31	0.10740	29.53/19.74	0.89743/0.09419
802.11ax HEW20_Nss1,(MCS0)_8TX	21.21	0.13213	30.43/20.64	1.10408/0.11588
802.11ax HEW40_Nss1,(MCS0)_8TX	23.71	0.23496	29.93/20.14	0.98401/0.10328
802.11ax HEW80_Nss1,(MCS0)_8TX	23.15	0.20654	29.37/19.58	0.86497/0.09078



Result

Mode	Result	DG	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8	Total Power	Power Limit	EIRP / Elevation angle higher than 30° EIRP (dBm)	EIRP / Elevation angle higher than 30° EIRP Limit (dBm)
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)		
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.22	10.80	10.43	12.20	10.69	10.40	10.41	10.23	12.19	20.02	26.78	29.24/19.45	Inf/21.00
5200MHz	Pass	9.22	10.66	10.67	12.17	11.16	10.60	10.31	10.19	12.13	20.08	26.78	29.30/19.51	Inf/21.00
5240MHz	Pass	9.22	10.96	11.58	11.17	11.41	11.26	10.74	10.72	12.17	20.31	26.78	29.53/19.74	Inf/21.00
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.22	10.72	11.62	11.59	10.67	10.59	10.15	11.50	11.68	20.13	26.78	29.35/19.56	Inf/21.00
5200MHz	Pass	9.22	10.51	11.27	11.53	11.38	11.03	10.00	11.41	11.97	20.21	26.78	29.43/19.64	Inf/21.00
5240MHz	Pass	9.22	11.74	12.04	12.74	12.13	12.10	12.07	11.54	12.88	21.21	26.78	30.43/20.64	Inf/21.00
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.22	13.96	14.22	15.23	15.03	14.35	13.90	14.80	15.44	23.68	29.78	29.90/20.11	Inf/21.00
5230MHz	Pass	6.22	14.05	14.30	15.03	15.23	14.12	13.97	14.71	15.67	23.71	29.78	29.93/20.14	Inf/21.00
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.22	13.59	14.27	14.68	14.09	13.89	13.37	13.75	15.06	23.15	29.78	29.37/19.58	Inf/21.00

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



For UNII 1 outdoor
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP / Elevation angle higher than 30° EIRP (dBm)	EIRP / Elevation angle higher than 30° EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	15.81	0.03811	30.67/20.88	1.16681/0.12246
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	15.55	0.03589	30.41/20.62	1.09901/0.11535
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	15.58	0.03614	30.44/20.65	1.10662/0.11614



Result

Mode	Result	DG	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8	Total Power	Power Limit	EIRP / Elevation angle higher than 30° EIRP	EIRP / Elevation angle higher than 30° EIRP Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	14.86	6.32	6.49	6.92	6.95	6.02	6.19	6.82	6.99	15.63	21.14	30.49/20.70	Inf/21.00
5200MHz	Pass	14.86	6.38	6.18	7.69	6.70	6.45	6.32	7.20	7.12	15.81	21.14	30.67/20.88	Inf/21.00
5240MHz	Pass	14.86	6.51	5.99	7.17	6.60	6.16	6.24	6.59	6.87	15.56	21.14	30.42/20.63	Inf/21.00
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	14.86	5.69	6.03	7.06	6.67	6.02	6.19	6.66	7.47	15.54	21.14	30.40/20.61	Inf/21.00
5230MHz	Pass	14.86	6.28	5.94	6.72	6.90	5.96	6.03	6.47	7.57	15.55	21.14	30.41/20.62	Inf/21.00
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	14.86	5.96	6.35	6.83	7.12	6.01	5.84	6.48	7.54	15.58	21.14	30.44/20.65	Inf/21.00

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



For UNII 1 outdoor
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP / Elevation angle higher than 30° EIRP (dBm)	EIRP / Elevation angle higher than 30° EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	13.34	0.02158	30.42/20.87	1.10154/0.12218
802.11ax HEW20_Nss1,(MCS0)_8TX	13.21	0.02094	30.29/20.74	1.06905/0.11858
802.11ax HEW40_Nss1,(MCS0)_8TX	16.04	0.04018	30.12/20.57	1.02802/0.11402
802.11ax HEW80_Nss1,(MCS0)_8TX	15.97	0.03954	30.05/20.50	1.01158/0.11220



Result

Mode	Result	DG	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8	Total Power	Power Limit	EIRP / Elevation angle higher than 30° EIRP	EIRP Limit / Elevation angle higher than 30° EIRP Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	17.08	5.01	3.54	4.46	4.49	4.25	3.69	3.19	4.49	13.21	18.92	30.29/20.74	Inf/21.00
5200MHz	Pass	17.08	5.08	4.63	3.92	4.40	3.99	3.71	4.17	4.42	13.34	18.92	30.42/20.87	Inf/21.00
5240MHz	Pass	17.08	5.42	3.40	4.37	4.18	4.39	4.35	3.49	4.47	13.33	18.92	30.41/20.86	Inf/21.00
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	17.08	5.02	3.49	4.52	4.50	4.19	3.68	3.28	4.44	13.21	18.92	30.29/20.74	Inf/21.00
5200MHz	Pass	17.08	4.98	3.43	4.46	4.52	4.21	3.77	3.29	4.45	13.20	18.92	30.28/20.73	Inf/21.00
5240MHz	Pass	17.08	5.02	3.47	4.44	4.42	4.18	3.76	3.28	4.46	13.19	18.92	30.27/20.72	Inf/21.00
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	14.08	7.50	7.08	7.35	7.02	6.93	5.65	6.69	7.16	15.98	21.92	30.06/20.51	Inf/21.00
5230MHz	Pass	14.08	7.55	6.95	6.99	7.23	7.11	6.14	6.77	7.23	16.04	21.92	30.12/20.57	Inf/21.00
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	14.08	7.31	7.02	7.38	7.13	6.88	5.76	6.62	7.18	15.97	21.92	30.05/20.50	Inf/21.00

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



For UNII 1 outdoor
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP / Elevation angle higher than 30° EIRP (dBm)	EIRP / Elevation angle higher than 30° EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	12.53	0.01791	32.24/20.71	1.67494/0.11776
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	12.58	0.01811	32.29/20.76	1.69434/0.11912
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	12.32	0.01706	32.03/20.50	1.59588/0.1122



Result

Mode	Result	DG	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8	Total Power	Power Limit	EIRP / Elevation angle higher than 30° EIRP	EIRP Limit / Elevation angle higher than 30° EIRP Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	19.71	4.51	3.29	3.77	3.72	3.49	3.15	2.19	3.55	12.53	16.29	32.24/20.71	Inf/21.00
5200MHz	Pass	19.71	4.79	2.86	3.67	3.68	3.56	2.72	2.45	3.63	12.51	16.29	32.22/20.69	Inf/21.00
5240MHz	Pass	19.71	4.51	3.01	3.67	3.62	3.28	2.64	1.79	3.29	12.32	16.29	32.03/20.50	Inf/21.00
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	19.71	2.74	3.18	3.92	3.45	3.41	2.65	3.00	4.80	12.48	16.29	32.19/20.66	Inf/21.00
5230MHz	Pass	19.71	3.32	3.05	3.50	3.76	3.58	2.79	2.84	5.08	12.58	16.29	32.29/20.76	Inf/21.00
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	19.71	2.72	3.05	3.48	3.29	3.44	2.53	2.65	4.73	12.32	16.29	32.03/20.50	Inf/21.00

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



For UNII 1 indoor + UNII 3 indoor + outdoor
Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_8TX	8.00
802.11ax HEW20_Nss1,(MCS0)_8TX	7.75
802.11ax HEW40_Nss1,(MCS0)_8TX	8.13
802.11ax HEW80_Nss1,(MCS0)_8TX	4.11
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_8TX	13.37
802.11ax HEW20_Nss1,(MCS0)_8TX	11.66
802.11ax HEW40_Nss1,(MCS0)_8TX	11.13
802.11ax HEW80_Nss1,(MCS0)_8TX	4.68

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	14.86	-0.58	0.23	1.09	-0.87	-1.01	-0.40	-1.32	0.50	7.97	8.14
5200MHz	Pass	14.86	-0.54	0.52	1.03	-0.69	-0.70	-0.33	-1.32	0.68	8.00	8.14
5240MHz	Pass	14.86	-0.48	-0.67	0.52	-0.27	-1.01	0.26	-1.45	0.70	7.98	8.14
5720MHz Straddle 5.725-5.85GHz												
5745MHz	Pass	15.06	5.34	5.32	5.40	5.15	5.04	4.94	4.27	3.60	13.37	20.94
5785MHz	Pass	15.06	5.61	4.28	5.63	3.55	4.57	4.74	3.80	3.55	12.89	20.94
5825MHz	Pass	15.06	5.43	5.08	4.73	4.43	5.05	3.59	4.23	3.95	13.00	20.94
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	14.86	-0.35	0.94	-0.03	-1.12	-1.37	-1.67	-0.71	-0.15	7.75	8.14
5200MHz	Pass	14.86	-1.52	-0.30	-0.24	-0.72	-1.01	-1.65	-0.25	-0.78	7.64	8.14
5240MHz	Pass	14.86	-0.85	-0.42	0.19	-1.00	-0.41	-0.37	-1.14	0.05	7.45	8.14
5720MHz Straddle 5.725-5.85GHz												
5745MHz	Pass	15.06	3.78	4.10	3.98	2.55	2.97	3.22	2.02	1.66	11.59	20.94
5785MHz	Pass	15.06	3.53	3.57	4.40	1.80	2.88	2.82	2.50	1.57	10.97	20.94
5825MHz	Pass	15.06	3.53	3.95	3.73	3.14	3.04	2.30	2.98	2.19	11.66	20.94
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	14.86	-0.44	1.09	0.78	-0.71	-0.42	-0.79	-0.31	0.28	8.13	8.14
5230MHz	Pass	14.86	-1.06	1.30	0.48	-0.56	-0.74	-0.31	-0.65	0.62	7.98	8.14
5710MHz Straddle 5.725-5.85GHz												
5755MHz	Pass	15.06	3.01	2.75	2.70	1.46	1.19	1.37	1.12	0.45	10.24	20.94
5795MHz	Pass	15.06	4.10	2.89	3.57	1.22	2.21	2.23	2.37	1.15	11.13	20.94
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	14.86	-4.81	-3.03	-3.64	-4.57	-4.77	-4.50	-4.05	-3.21	4.11	8.14
5690MHz Straddle 5.725-5.85GHz												
5775MHz	Pass	15.06	-1.90	-3.41	-2.89	-4.53	-4.39	-4.29	-3.76	-5.42	4.68	20.94

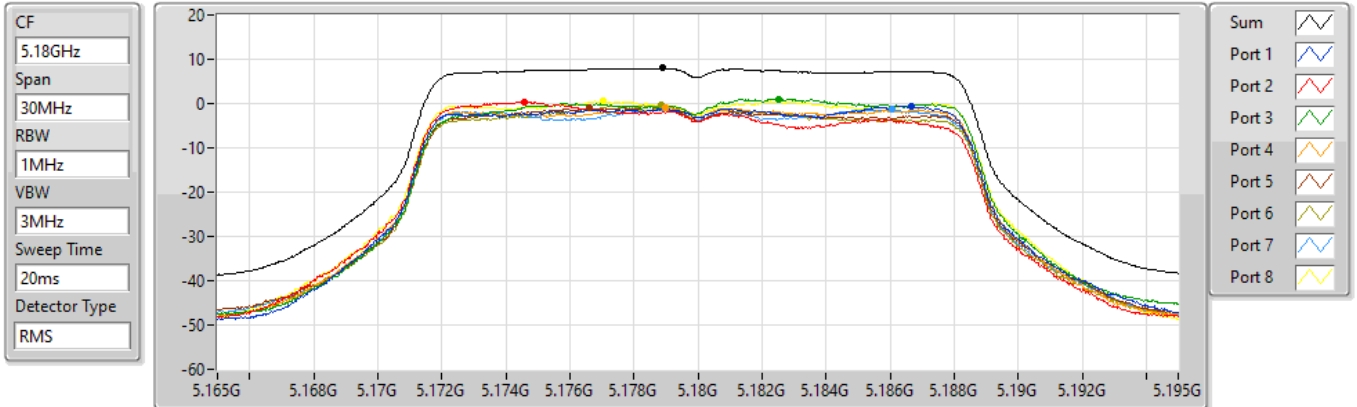
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_8TX

PSD

5180MHz

12/10/2022



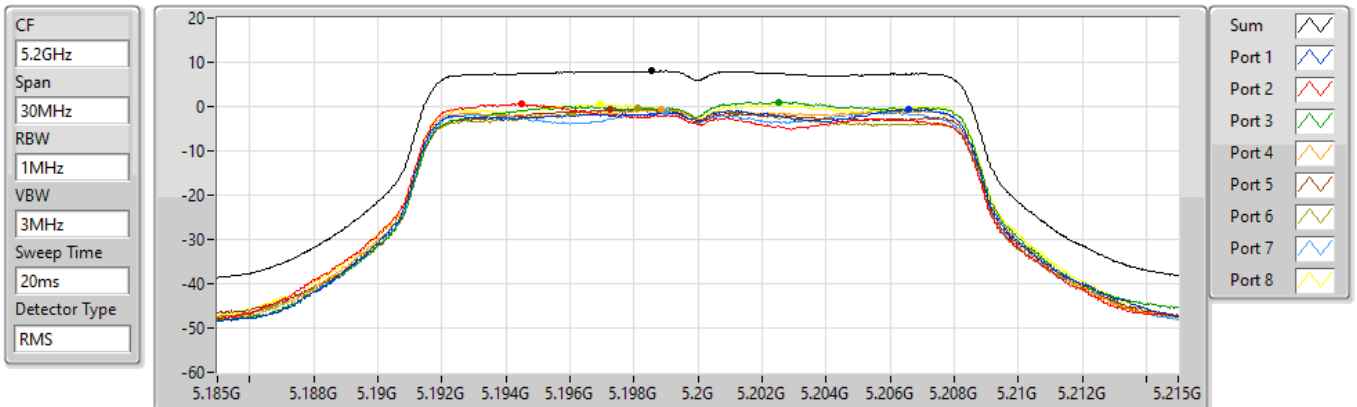
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.97	7.97	-0.58	0.23	1.09	-0.87	-1.01	-0.40	-1.32	0.50

802.11a_Nss1,(6Mbps)_8TX

PSD

5200MHz

12/10/2022



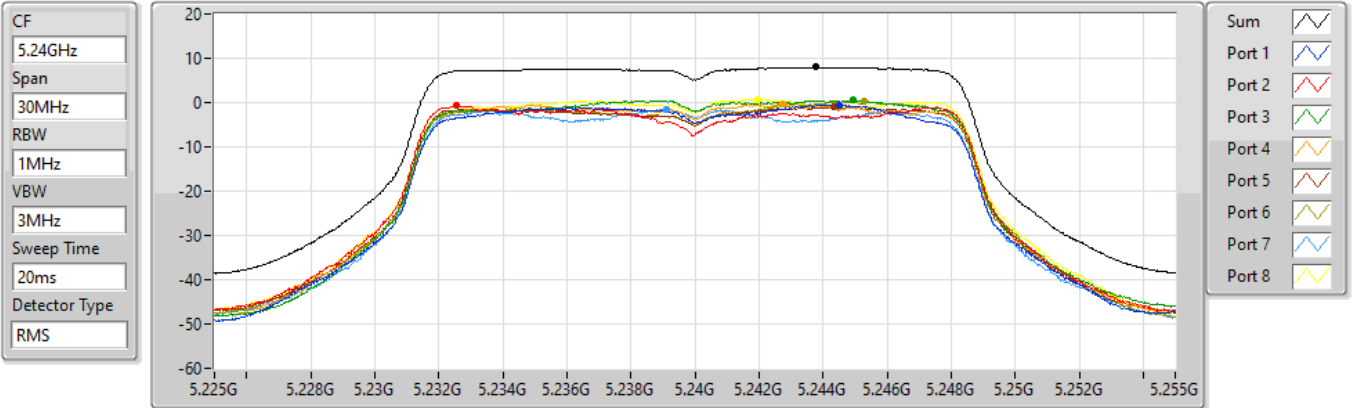
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.00	8.00	-0.54	0.52	1.03	-0.69	-0.70	-0.33	-1.32	0.68

802.11a_Nss1,(6Mbps)_8TX

PSD

5240MHz

12/10/2022



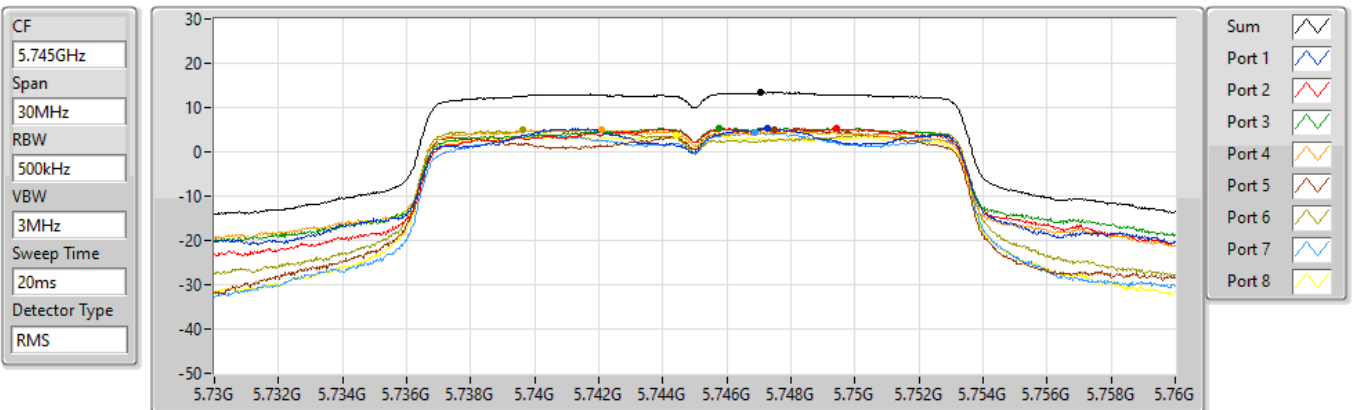
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.98	7.98	-0.48	-0.67	0.52	-0.27	-1.01	0.26	-1.45	0.70

802.11a_Nss1,(6Mbps)_8TX

PSD

5745MHz

12/10/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.37	13.37	5.34	5.32	5.40	5.15	5.04	4.94	4.27	3.60

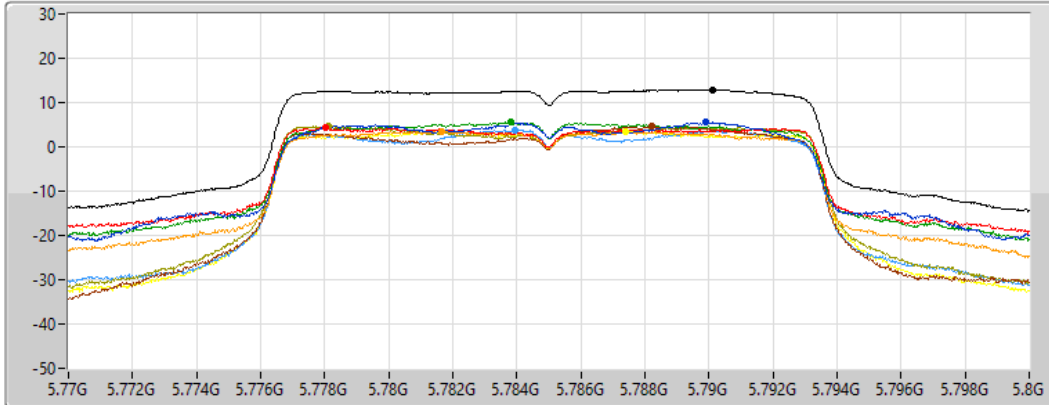
802.11a_Nss1,(6Mbps)_8TX

PSD

5785MHz

12/10/2022

CF
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.89	12.89	5.61	4.28	5.63	3.55	4.57	4.74	3.80	3.55

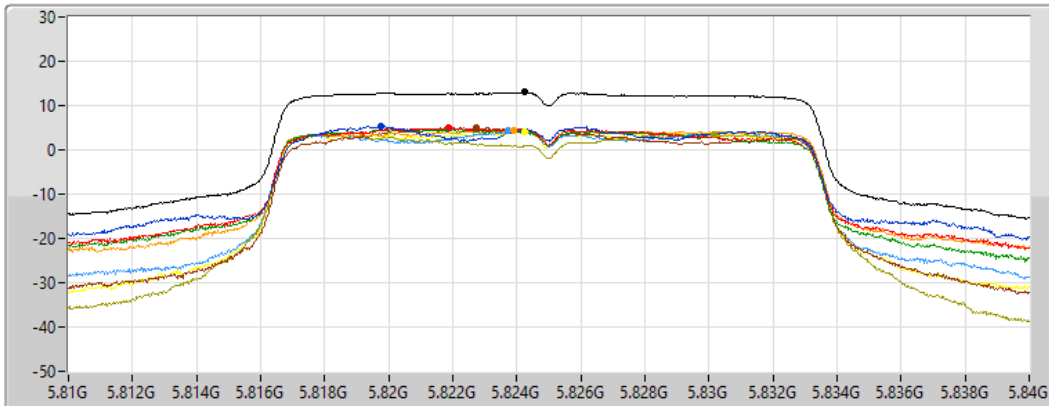
802.11a_Nss1,(6Mbps)_8TX

PSD

5825MHz

12/10/2022

CF
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

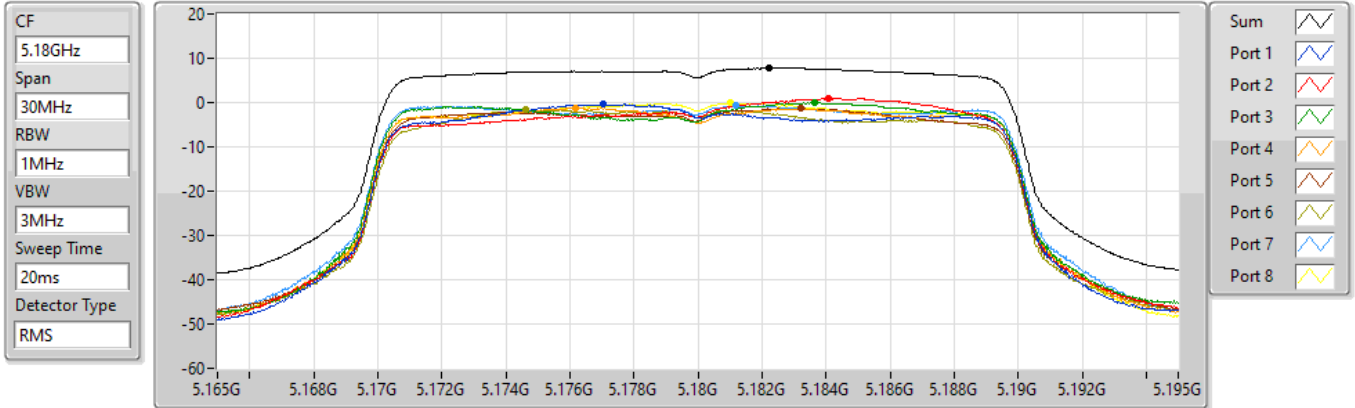
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.00	13.00	5.43	5.08	4.73	4.43	5.05	3.59	4.23	3.95

802.11ax HEW20_Nss1,(MCS0)_8TX

PSD

5180MHz

12/10/2022



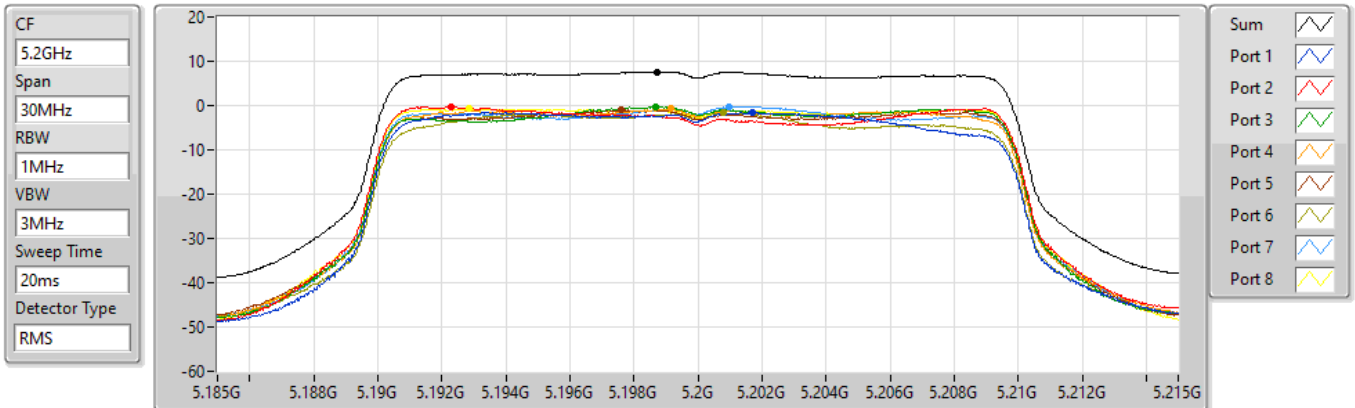
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.75	7.75	-0.35	0.94	-0.03	-1.12	-1.37	-1.67	-0.71	-0.15

802.11ax HEW20_Nss1,(MCS0)_8TX

PSD

5200MHz

12/10/2022



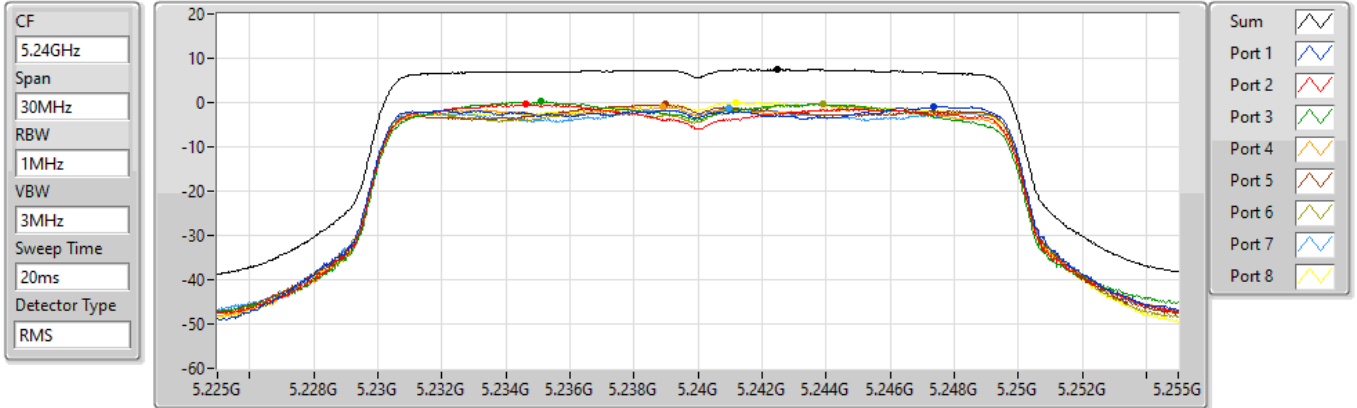
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.64	7.64	-1.52	-0.30	-0.24	-0.72	-1.01	-1.65	-0.25	-0.78

802.11ax HEW20_Nss1,(MCS0)_8TX

PSD

5240MHz

13/10/2022

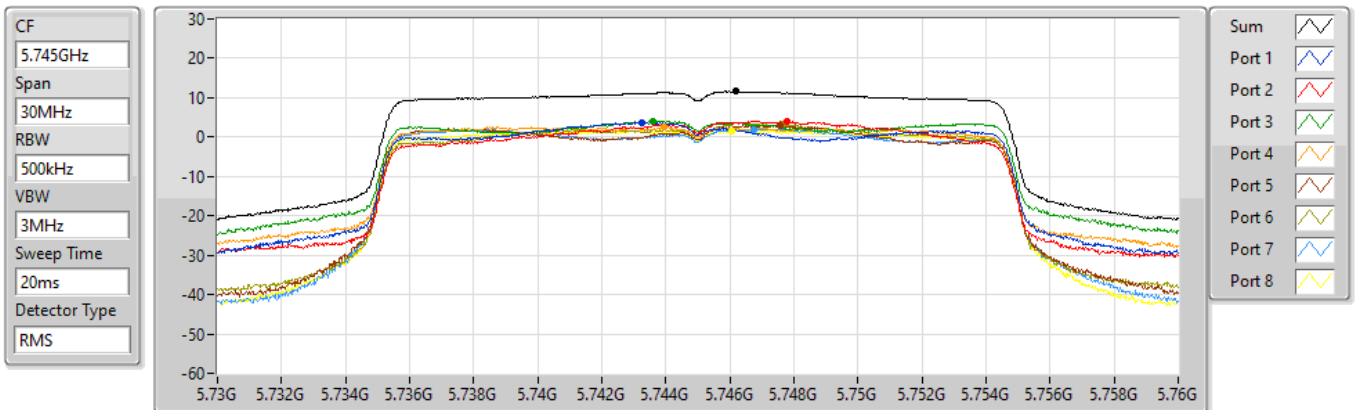


802.11ax HEW20_Nss1,(MCS0)_8TX

PSD

5745MHz

13/10/2022



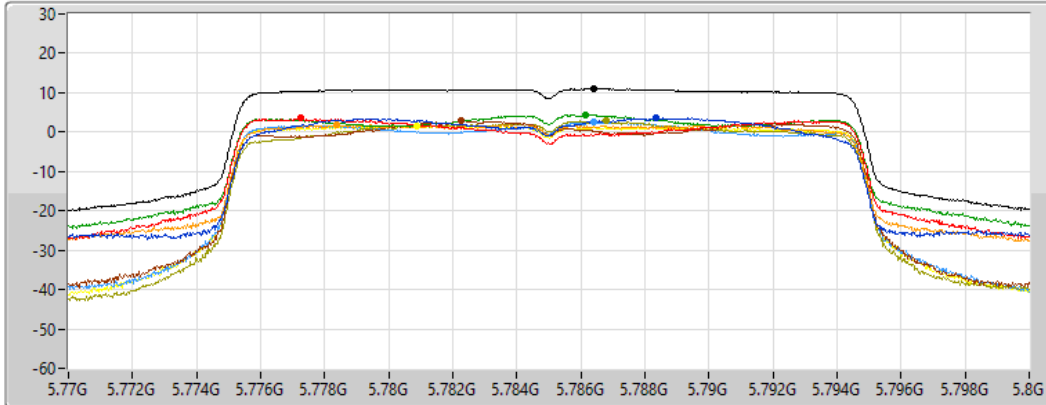
802.11ax HEW20_Nss1,(MCS0)_8TX

PSD

5785MHz

13/10/2022

CF
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.97	10.97	3.53	3.57	4.40	1.80	2.88	2.82	2.50	1.57

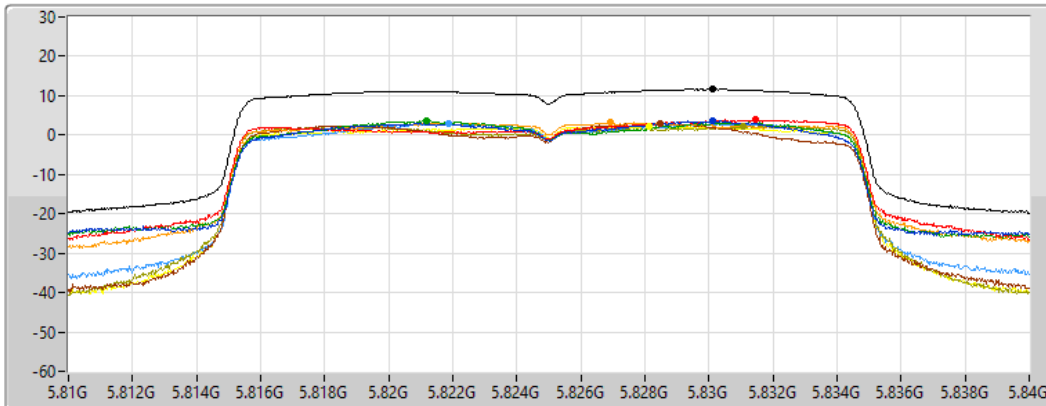
802.11ax HEW20_Nss1,(MCS0)_8TX

PSD

5825MHz

13/10/2022

CF
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

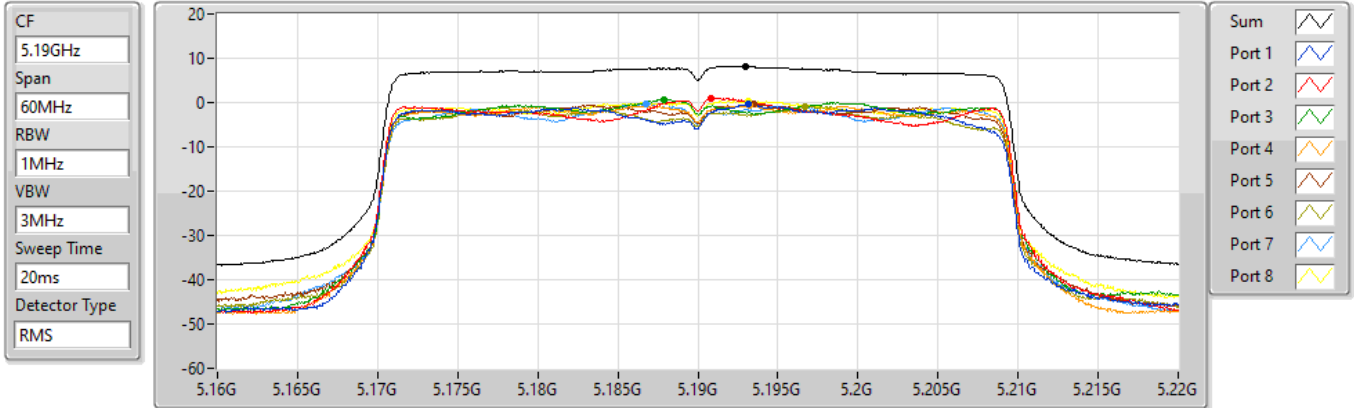
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.66	11.66	3.53	3.95	3.73	3.14	3.04	2.30	2.98	2.19

802.11ax HEW40_Nss1,(MCS0)_8TX

PSD

5190MHz

13/10/2022



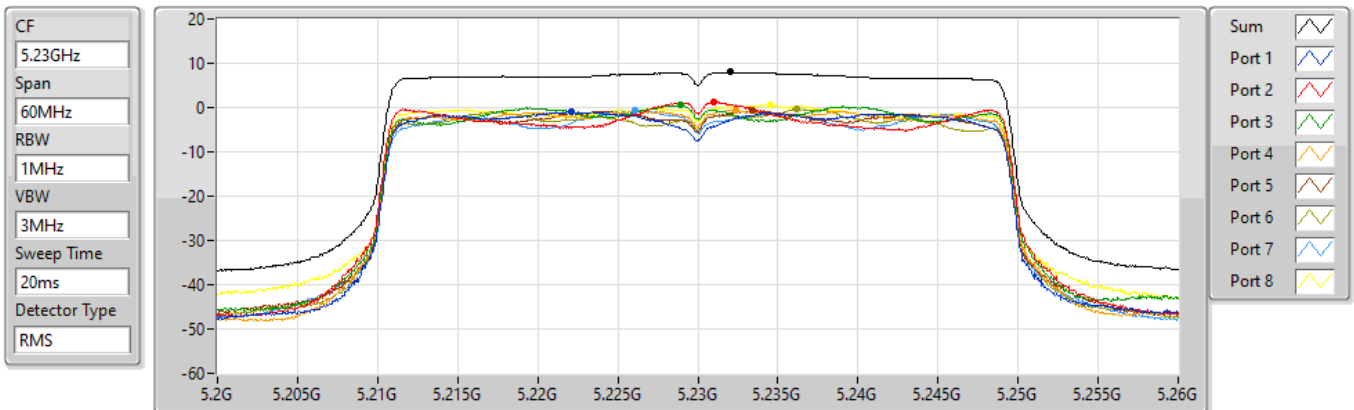
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.13	8.13	-0.44	1.09	0.78	-0.71	-0.42	-0.79	-0.31	0.28

802.11ax HEW40_Nss1,(MCS0)_8TX

PSD

5230MHz

13/10/2022



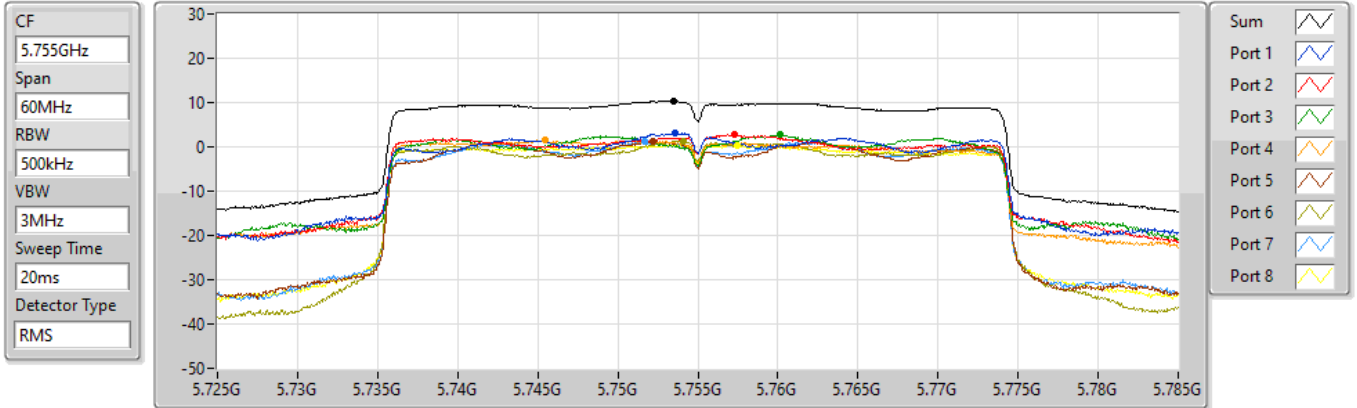
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.98	7.98	-1.06	1.30	0.48	-0.56	-0.74	-0.31	-0.65	0.62

802.11ax HEW40_Nss1,(MCS0)_8TX

PSD

5755MHz

13/10/2022



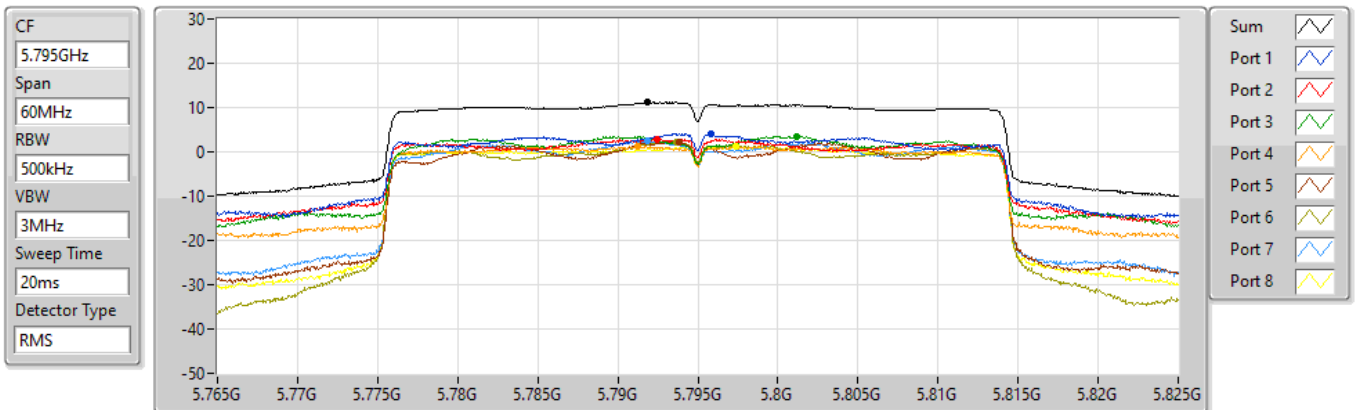
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.24	10.24	3.01	2.75	2.70	1.46	1.19	1.37	1.12	0.45

802.11ax HEW40_Nss1,(MCS0)_8TX

PSD

5795MHz

13/10/2022



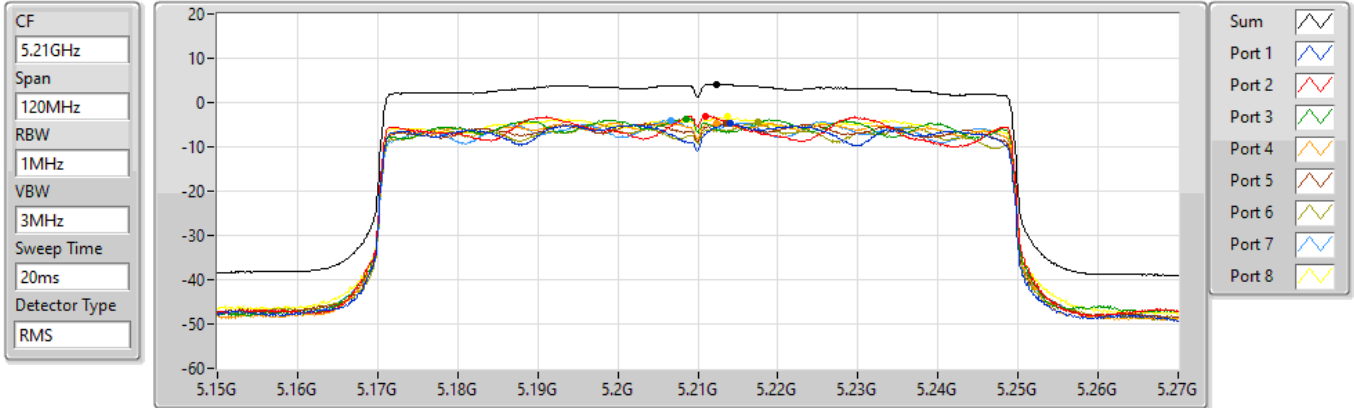
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.13	11.13	4.10	2.89	3.57	1.22	2.21	2.23	2.37	1.15

802.11ax HEW80_Nss1,(MCS0)_8TX

PSD

5210MHz

13/10/2022



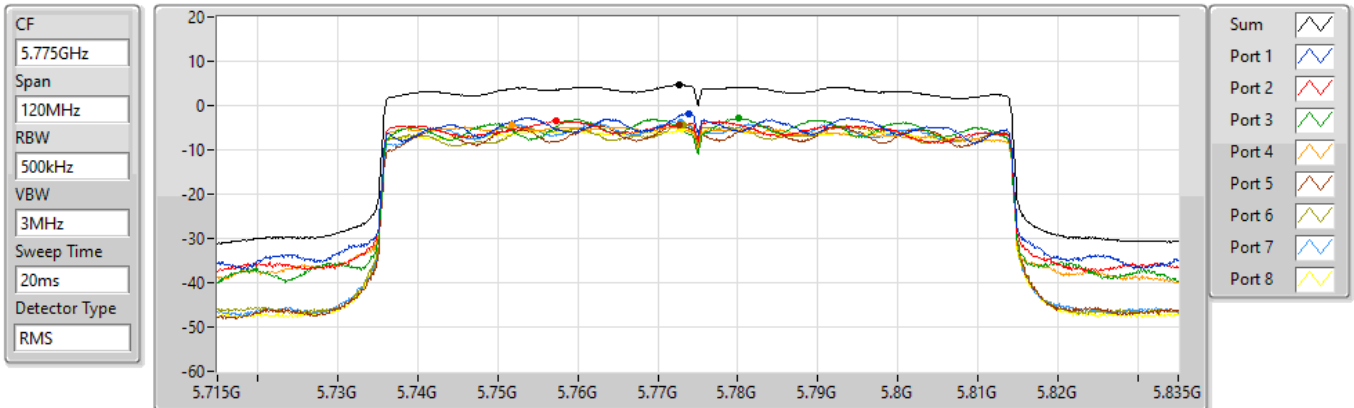
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.11	4.11	-4.81	-3.03	-3.64	-4.57	-4.77	-4.50	-4.05	-3.21

802.11ax HEW80_Nss1,(MCS0)_8TX

PSD

5775MHz

13/10/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.68	4.68	-1.90	-3.41	-2.89	-4.53	-4.39	-4.29	-3.76	-5.42



For UNII 1 indoor + UNII 3 indoor + outdoor

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_8TX	3.18
802.11ax HEW20_Nss1,(MCS0)_8TX	3.27
802.11ax HEW40_Nss1,(MCS0)_8TX	2.88
802.11ax HEW80_Nss1,(MCS0)_8TX	2.51
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_8TX	5.06
802.11ax HEW20_Nss1,(MCS0)_8TX	4.88
802.11ax HEW40_Nss1,(MCS0)_8TX	5.55
802.11ax HEW80_Nss1,(MCS0)_8TX	2.08

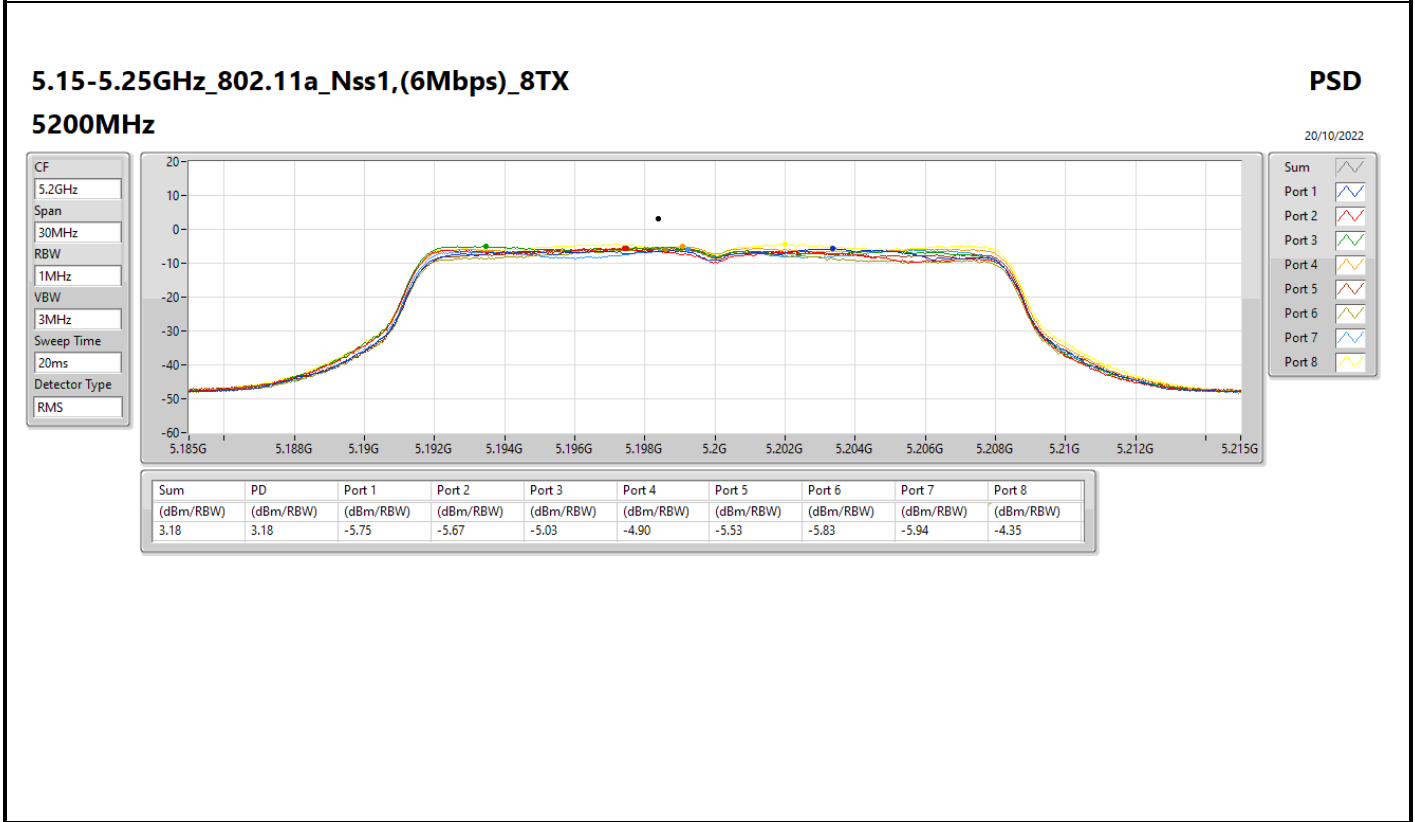
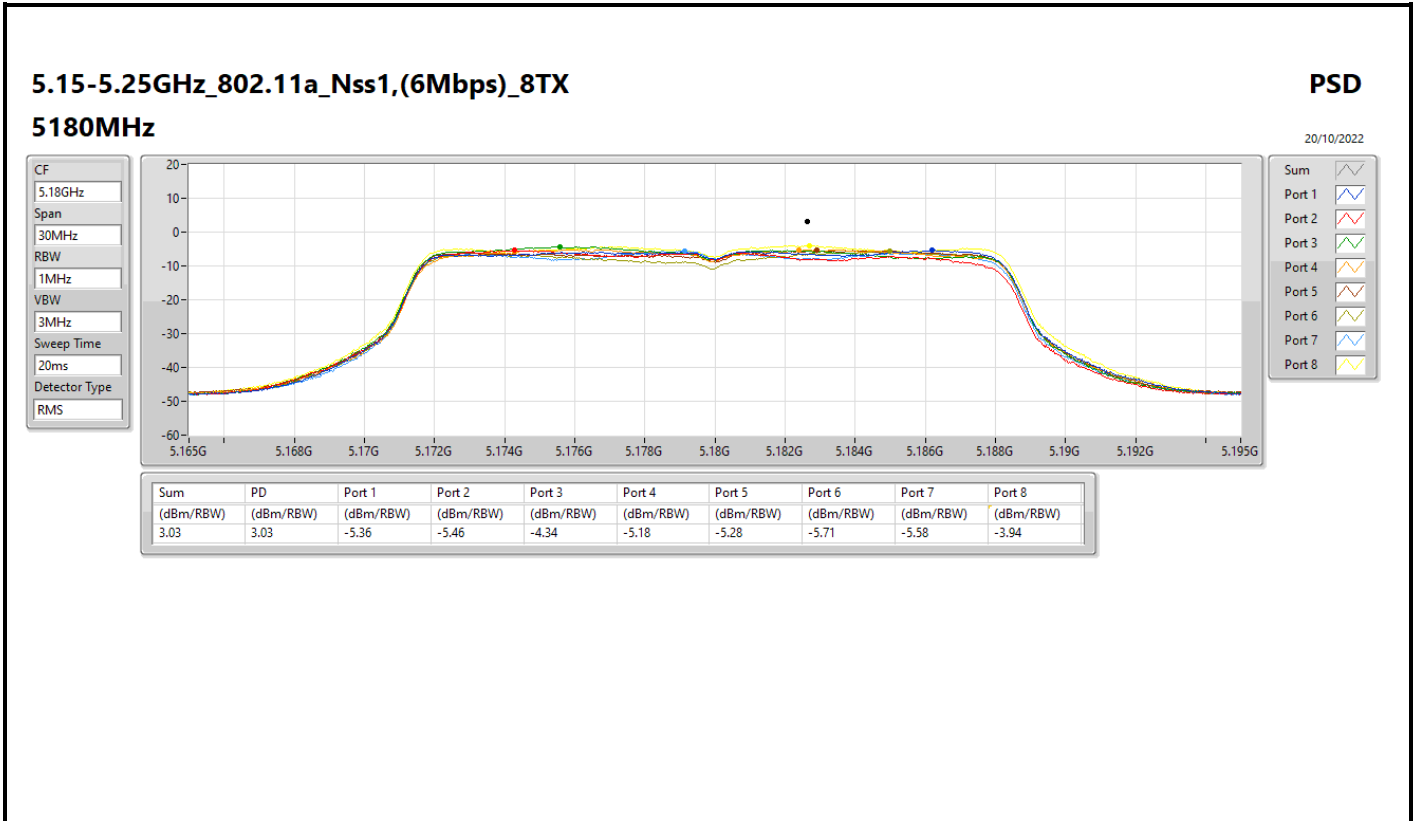
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

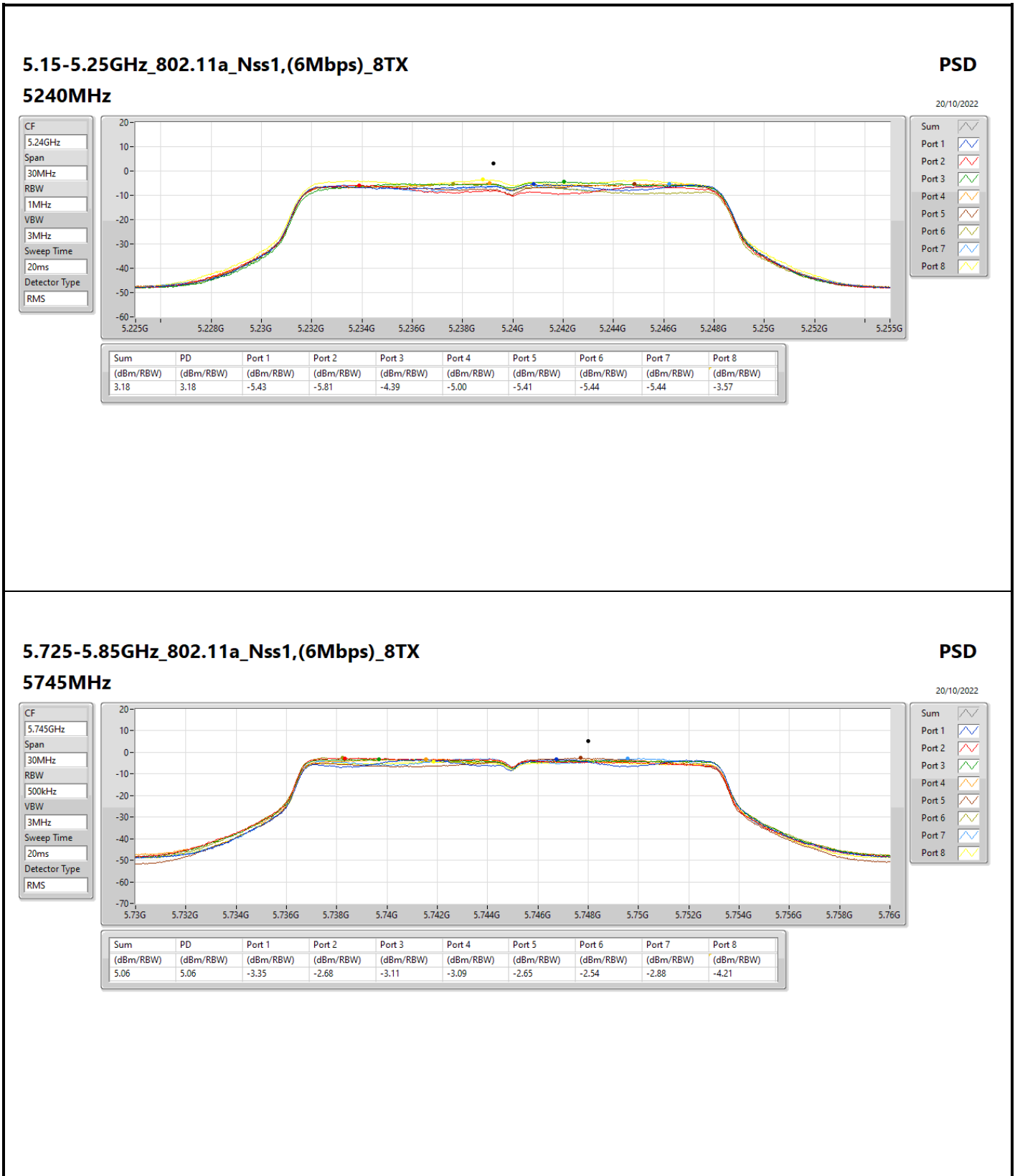


Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	19.71	-5.36	-5.46	-4.34	-5.18	-5.28	-5.71	-5.58	-3.94	3.03	3.29
5200MHz	Pass	19.71	-5.75	-5.67	-5.03	-4.90	-5.53	-5.83	-5.94	-4.35	3.18	3.29
5240MHz	Pass	19.71	-5.43	-5.81	-4.39	-5.00	-5.41	-5.44	-5.44	-3.57	3.18	3.29
5745MHz	Pass	19.74	-3.35	-2.68	-3.11	-3.09	-2.65	-2.54	-2.88	-4.21	5.06	16.26
5785MHz	Pass	19.74	-2.68	-3.84	-3.17	-4.46	-3.57	-3.43	-3.51	-4.73	4.73	16.26
5825MHz	Pass	19.74	-2.87	-4.04	-3.93	-2.62	-3.34	-3.73	-3.22	-4.50	5.04	16.26
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	19.71	-5.24	-4.53	-3.92	-5.58	-5.55	-6.10	-5.91	-4.02	3.27	3.29
5200MHz	Pass	19.71	-5.61	-4.66	-3.80	-5.37	-5.85	-6.82	-5.48	-4.16	2.90	3.29
5240MHz	Pass	19.71	-5.29	-5.60	-4.56	-5.22	-6.16	-5.46	-6.70	-3.95	3.09	3.29
5745MHz	Pass	19.74	-3.37	-2.81	-2.29	-3.63	-3.59	-3.69	-3.61	-4.74	4.88	16.26
5785MHz	Pass	19.74	-2.42	-4.22	-3.60	-5.38	-3.73	-3.66	-4.07	-5.41	4.31	16.26
5825MHz	Pass	19.74	-4.00	-4.02	-2.77	-3.35	-3.66	-3.76	-3.75	-4.76	4.68	16.26
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	19.71	-5.99	-4.58	-5.07	-5.97	-5.96	-6.45	-5.60	-4.20	2.88	3.29
5230MHz	Pass	19.71	-6.27	-4.36	-5.06	-5.32	-5.95	-5.80	-5.71	-3.99	2.83	3.29
5755MHz	Pass	19.74	-2.37	-2.74	-2.86	-3.93	-3.26	-2.99	-2.81	-4.38	5.24	16.26
5795MHz	Pass	19.74	-1.47	-3.36	-2.59	-4.46	-2.83	-2.87	-3.09	-4.21	5.55	16.26
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	19.71	-6.61	-4.90	-5.43	-5.99	-5.98	-6.62	-6.19	-4.46	2.51	3.29
5775MHz	Pass	19.74	-5.19	-6.20	-6.04	-7.54	-6.22	-6.34	-6.32	-7.78	2.08	16.26

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;



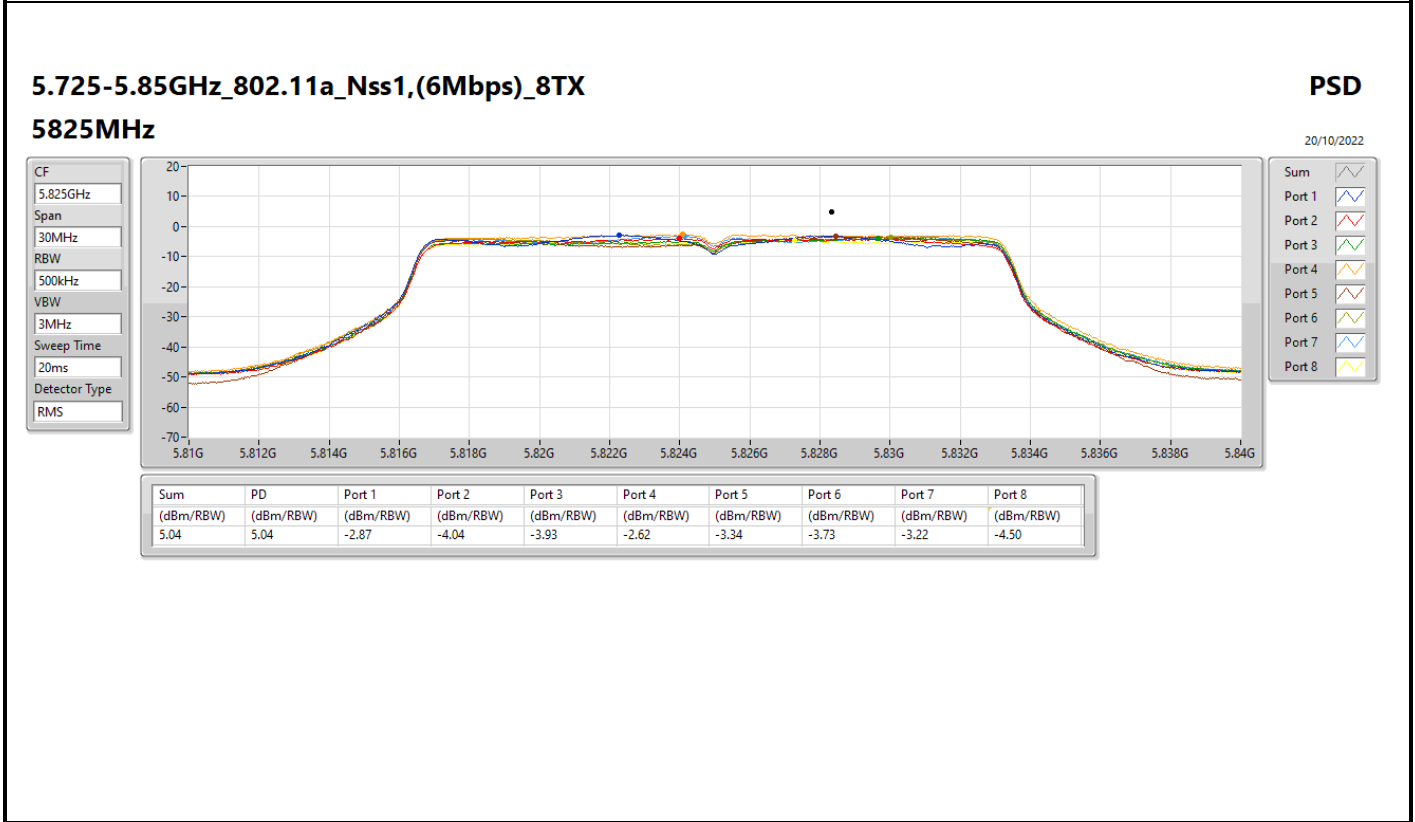
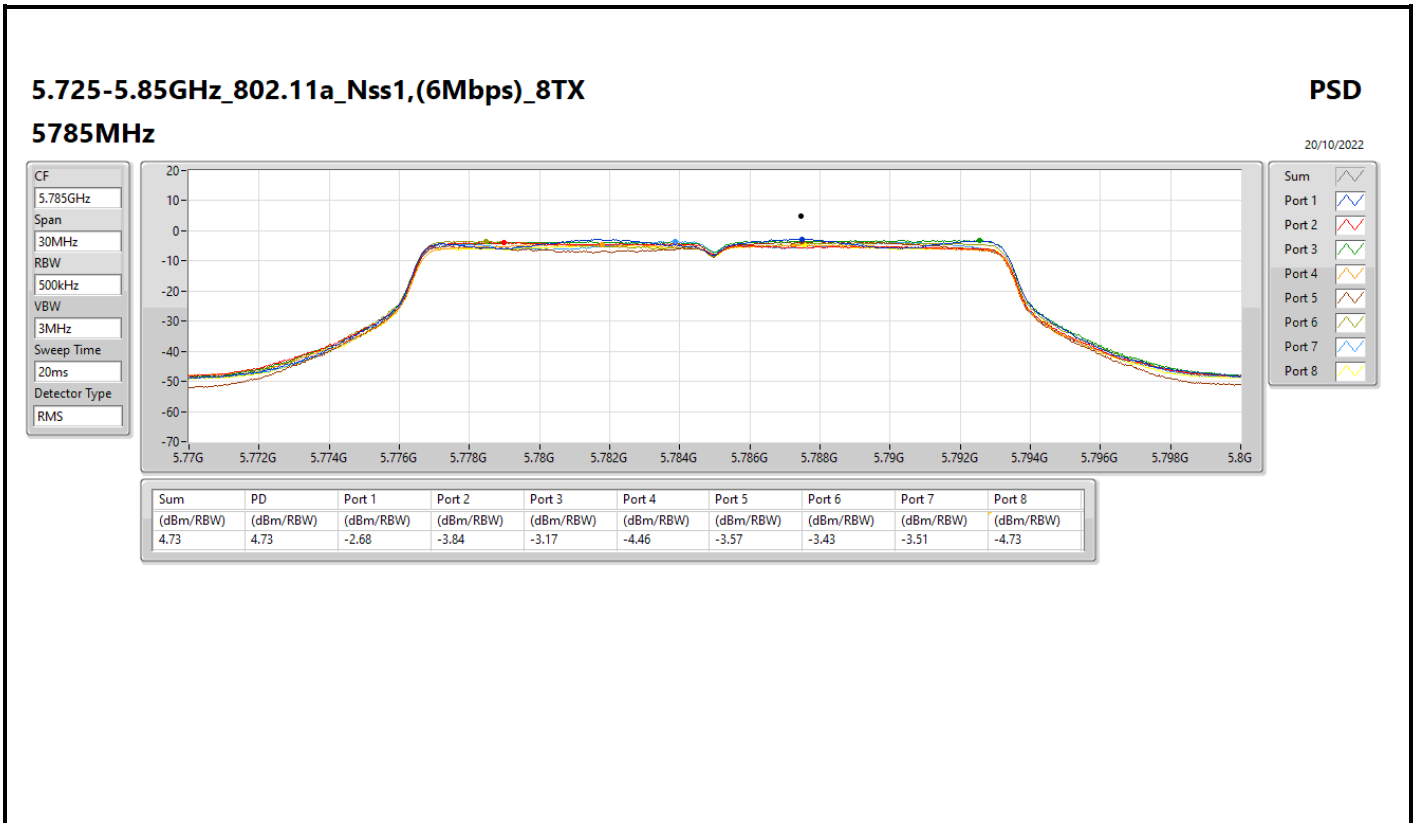


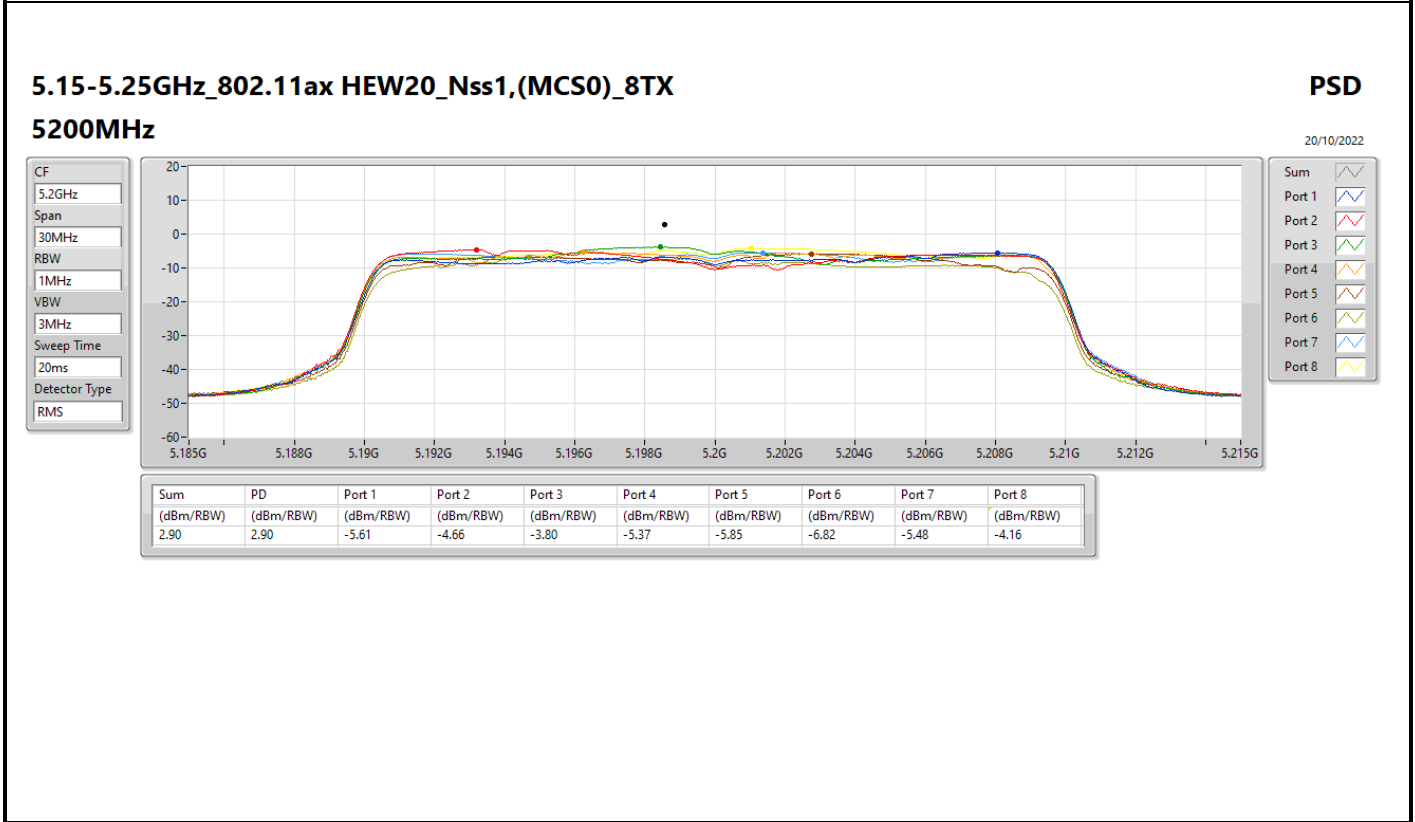
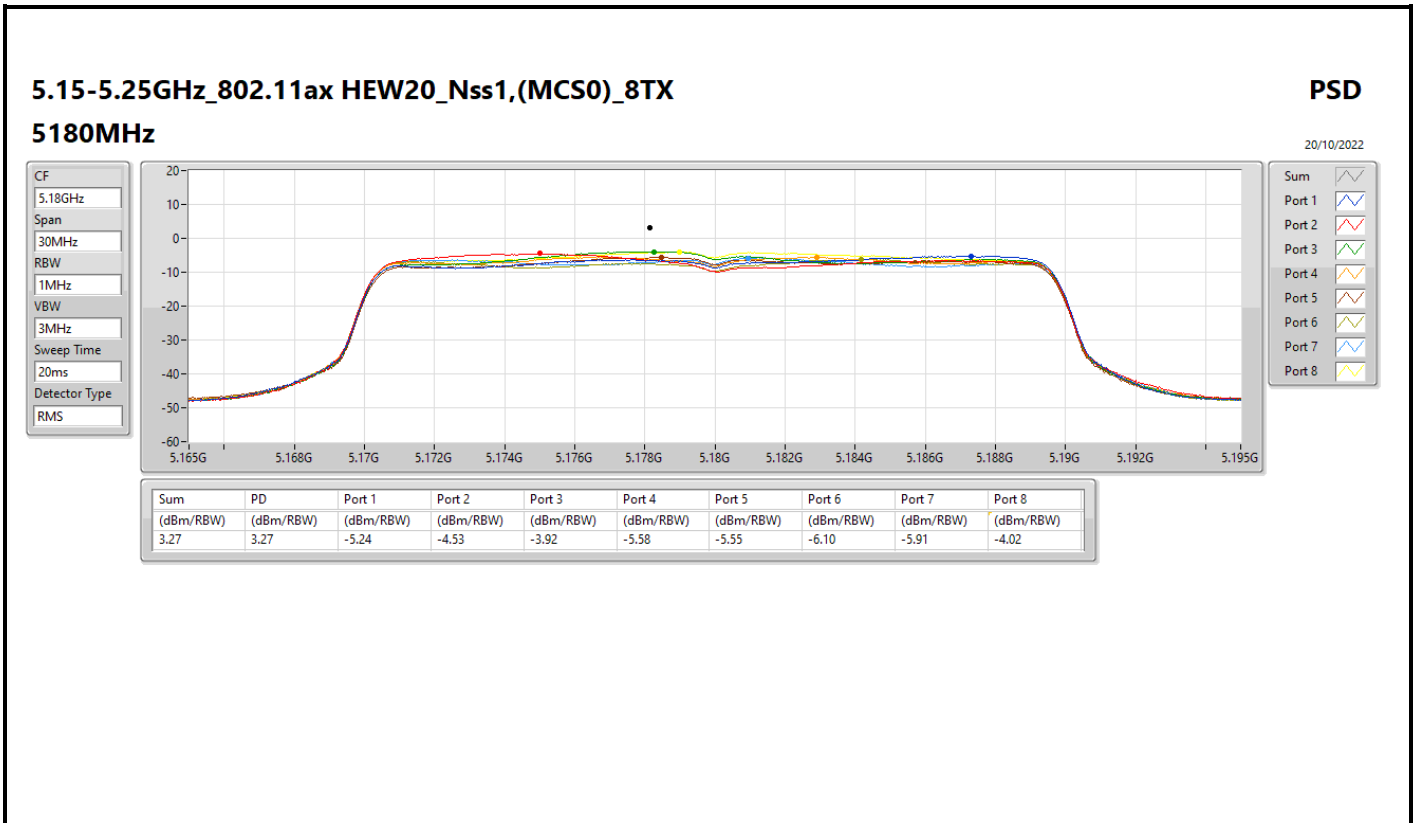
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_8TX

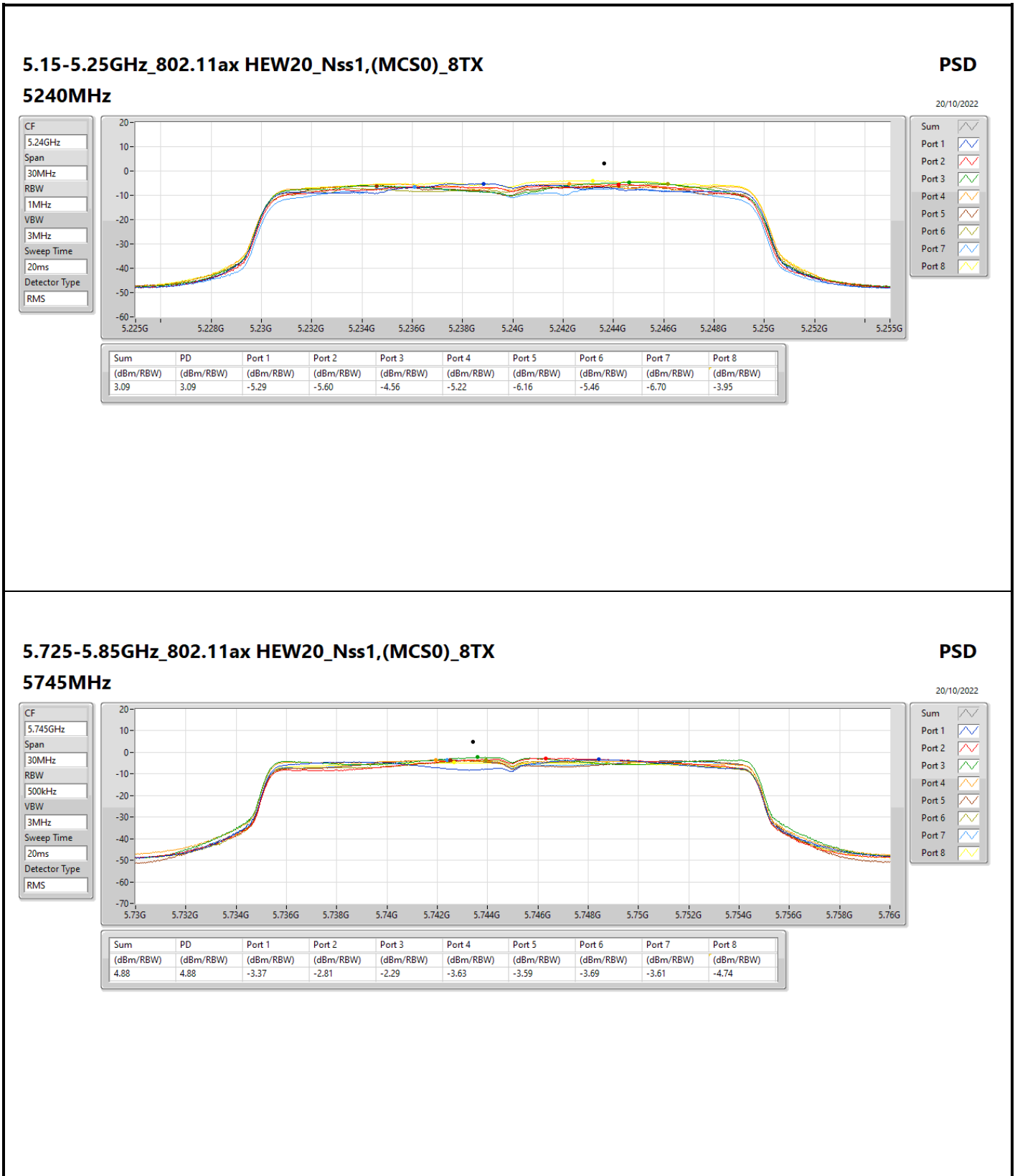
5745MHz

PSD

20/10/2022







5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_8TX

5745MHz

PSD

20/10/2022

