Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	Z3WAIR4960X
Equipment	:	5400 Mbps 11ax Wi-Fi Mesh Extender Wi-Fi 6 Smart Mesh System 5400 Mbps 11ax Wi-Fi Mesh Access Point AX5400 Wi-Fi 6 Router Home Wi-Fi Solution Kit WiFi 6 Booster Wi-Fi 6 Smart Mesh Extender
Brand Name	:	Airties
Model Name	:	Air 4960X, Air 4960XR
Applicant	:	Airties Wireless Networks Sehit Mehmet Mikdat Uluunlu Sokagi No:23 Esentepe, Sisli İstanbul, 34394 Turkey
Manufacturer	:	Airties Wireless Networks Sehit Mehmet Mikdat Uluunlu Sokagi No:23 Esentepe, Sisli İstanbul, 34394 Turkey
Standard	:	47 CFR FCC Part 15.407

The product was received on Mar. 10, 2022, and testing was started from Mar. 22, 2022 and completed on Apr. 28, 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

Sporton International Inc. Hsinchu Laboratory
No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR230923AB	01	Initial issue of report	Jun. 07, 2022

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: Jessie Wei

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]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]
5150-5350	ac (VHT160), ax (HEW160)	5250	50 [1]
5470-5725		5570	114 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11n HT20-BF	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ax HEW20-BF	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11n HT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ax HEW40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.15-5.35GHz	802.11ac VHT160	160	4TX
5.15-5.35GHz	802.11ac VHT160-BF	160	4TX
5.15-5.35GHz	802.11ax HEW160	160	4TX
5.15-5.35GHz	802.11ax HEW160-BF	160	4TX
5.25-5.35GHz	802.11a	20	4TX
5.25-5.35GHz	802.11n HT20	20	4TX
5.25-5.35GHz	802.11n HT20-BF	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11ax HEW20	20	4TX
5.25-5.35GHz	802.11ax HEW20-BF	20	4TX
5.25-5.35GHz	802.11n HT40	40	4TX
5.25-5.35GHz	802.11n HT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ax HEW40	40	4TX
5.25-5.35GHz	802.11ax HEW40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.25-5.35GHz	802.11ac VHT80-BF	80	4TX
5.25-5.35GHz	802.11ax HEW80	80	4TX
5.25-5.35GHz	802.11ax HEW80-BF	80	4TX
5.47-5.725GHz	802.11a	20	4TX
5.47-5.725GHz	802.11n HT20	20	4TX
5.47-5.725GHz	802.11n HT20-BF	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20-BF	20	4TX
5.47-5.725GHz	802.11ax HEW20	20	4TX
5.47-5.725GHz	802.11ax HEW20-BF	20	4TX
5.47-5.725GHz	802.11n HT40	40	4TX
5.47-5.725GHz	802.11n HT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	4TX
5.47-5.725GHz	802.11ax HEW40	40	4TX
5.47-5.725GHz	802.11ax HEW40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	4TX
5.47-5.725GHz	802.11ax HEW80	80	4TX
5.47-5.725GHz	802.11ax HEW80-BF	80	4TX
5.47-5.725GHz	802.11ac VHT160	160	4TX

Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ac VHT160-BF	160	4TX
5.47-5.725GHz	802.11ax HEW160	160	4TX
5.47-5.725GHz	802.11ax HEW160-BF	160	4TX
5.725-5.85GHz	802.11a	20	4TX
5.725-5.85GHz	802.11n HT20	20	4TX
5.725-5.85GHz	802.11n HT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11n HT40	40	4TX
5.725-5.85GHz	802.11n HT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz					
1	2	1	AirTies	A01	Printed	N/A	Note 1
2	1	4	AirTies	A30	Printed	N/A	
3	-	2	AirTies	A1X	Printed	N/A	
4	-	3	AirTies	A2X	Printed	N/A	

Note 1:

Ant.	Antenna Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz			
		UNII 1	UNII 2A	UNII 2C	UNII 3
1	2.73	3.56	3.95	4.61	4.20
2	1.86	2.24	1.70	3.30	3.16
3	-	1.89	2.05	1.17	1.02
4	-	1.89	1.14	2.73	3.97

Ant.	Directional Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz			
		UNII 1	UNII 2A	UNII 2C	UNII 3
	2T1S	4T1S			
1	2.95	5.70	5.96	5.34	6.17
2					
3	-				
4	-				

Note 2: The above information (excepting antenna gain) was declared by manufacturer.
For WLAN 2.4GHz:
For IEEE 802.11b/g/n/VHT/ax mode (2TX/2RX):
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.
For WLAN 5GHz:
For IEEE 802.11a/n/ac/ax mode (4TX/4RX):
Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
Note3: The directional gain is measured which follows the procedure of KDB 662911 D03. The antenna report is provided in the operational description for this application.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.948	0.23	2.065m	1k
802.11ax HEW20-BF	0.97	0.13	2.97m	1k
802.11ax HEW40-BF	0.978	0.1	4.359m	300
802.11ax HEW80-BF	0.972	0.12	4.143m	300
802.11ax HEW160-BF	0.976	0.11	5.16m	300

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/ax in 2.4GHz and 11n/ac/ax in 5GHz.			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
	☒	Point-to-multipoint	☐	Point-to-point
TPC Function	☒	With TPC	☐	Without TPC
Test Software Version	accessMtool 3.2.1.5			
SW version	4.130.1.0.1755_wltest			
HW version	4960X-D01-M01-R08			
Serial Number (For AC Conduction & Radiated below 1GHz)	AP: AG2932203000016 Router: AG2932203000087			
Serial Number (For other test items)	AG2932203000038			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT supports function

Function	Support Band
AP	2.4GHz / 5GHz
Router	2.4GHz / 5GHz
Mesh	5GHz

Note1: After evaluating, the AP and the Router were selected to test and record in the report.
Note2: The above information was declared by manufacturer.

1.1.6 Table for Multiple Listing

EUT	Equipment Name	Equipment Difference	Brand Name	Model Name
1	AX5400 Wi-Fi 6 Router	for different marketing	Airties	Air 4960XR
-	Wi-Fi 6 Smart Mesh System			
2	5400 Mbps 11ax Wi-Fi Mesh Extender	for different marketing	Airties	Air 4960X
-	Wi-Fi 6 Smart Mesh Extender			
-	5400 Mbps 11ax Wi-Fi Mesh Access Point			
-	Home Wi-Fi Solution Kit			
-	WiFi 6 Booster			

Model Name	Type	I/O Port Function	I/O Port Color	DDR		
				Brand Name	Model Name	Capacity
Air 4960XR	Router, Mesh	LAN*1, WAN*1	LAN: yellow, WAN: Red	Winbond	W634GU6NB-11	512MB
Air 4960X	AP, Mesh	LAN*2	LAN: yellow	Winbond	W632GU6NB-12	256MB

Note1: From the above models, model: Air 4960XR (EUT 1) was selected to test AC Power-line Conducted Emissions and Emissions in Restricted Frequency Bands below 1GHz. Air 4960X (EUT 2) was selected to test all items and their data were recorded in this report.

Note2: 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 D03 v01
- 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 (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) 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	Lucas Huang	23.9~24.4 / 62~64	Mar. 25, 2022~ Apr. 28, 2022
Radiated below 1GHz & Co-location	03CH04-CB	Simmon Cheng	23.5~24.6 / 55~59	Mar. 22, 2022~ Mar. 23, 2022
Radiated above 1GHz	03CH01-CB	Gino Huang	24.2~26.1 / 55~58	Mar. 22, 2022~ Apr. 23, 2022
	03CH02-CB	Gino Huang	23.8~24.9 / 55~58	
AC Conduction	CO01-CB	Joe Chu	23~24 / 58~59	Mar. 25, 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)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	83
5200MHz	97
5240MHz	92
5260MHz	73
5300MHz	73
5320MHz	73
5500MHz	71
5580MHz	71
5700MHz	72
5720MHz Straddle 5.47-5.725GHz	72
5720MHz Straddle 5.725-5.85GHz	72
5745MHz	98
5785MHz	98
5825MHz	99
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	86
5200MHz	98
5240MHz	91
5260MHz	71
5300MHz	72
5320MHz	71
5500MHz	70
5580MHz	69
5700MHz	61
5720MHz Straddle 5.47-5.725GHz	71
5720MHz Straddle 5.725-5.85GHz	71
5745MHz	97
5785MHz	97
5825MHz	97
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	78
5230MHz	88
5270MHz	71
5310MHz	71
5510MHz	64

Mode	Power Setting
5550MHz	69
5670MHz	71
5710MHz Straddle 5.47-5.725GHz	73
5710MHz Straddle 5.725-5.85GHz	73
5755MHz	93
5795MHz	96
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	77
5290MHz	72
5530MHz	66
5610MHz	71
5690MHz Straddle 5.47-5.725GHz	72
5690MHz Straddle 5.725-5.85GHz	72
5775MHz	88
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	67
5250MHz Straddle 5.25-5.35GHz	67
5570MHz	69

Note:
- Evaluated HEW20/HEW40/HEW80/HEW160 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160 mode are the same or lower than HEW20/HEW40/HEW80/HEW160.
- The EUT supports non-beamforming and beamforming modes, after evaluating, the beamforming mode has been selected to test..

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 2 (AP) + Adapter
2	EUT 1 (Router) + Adapter

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 2 (AP)

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	Normal Link
1	EUT 2 in X axis (AP) + Adapter
2	EUT 2 in Y axis (AP) + Adapter
3	EUT 2 in Z axis (AP) + Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT 1 in X axis (Router) + Adapter
For operating mode 1 and mode 4 are the worst case and they are recorded in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Z axis. So the measurement will follow this same test configuration.	
1	EUT 2 (AP) in Z axis

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
The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz, and the worst case was found at Y axis. So the measurement will follow this same test configuration.	
1	EUT 2 in Y axis (AP) – WLAN 2.4GHz + WLAN 5GHz
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	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA230923 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.
The program was executed as follows:
1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by WLAN AP and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter	MOSO	MS-V1000R120-012H0-US	INPUT: 100-240V~ 50/60Hz, 0.3A max. OUTPUT: 12.0V, 1.0A
Others			
RJ-45 cable*1: non-shielded, 1.5m			

2.5 Support Equipment

For AC Conduction:
For EUT 2 (AP):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN NB	DELL	E6430	N/A
B	5G NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A

For EUT 1 (Router):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN 1 NB	DELL	E6430	N/A
B	AP Router	ASUS	RP-N53	MSQ-RPN53
C	LAN 2 NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	2.4G NB	DELL	E6430	N/A

For Radiated (below 1GHz):
For EUT 2 (AP):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Notebook	DELL	E4300	N/A

For EUT 1 (Router):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Notebook	DELL	E4300	N/A
D	WLAN AP	D-LINK	DIR860L	KA2IR860LA1

For Radiated (above 1GHz):
<Non-Beamforming Mode>

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A

<Beamforming Mode>

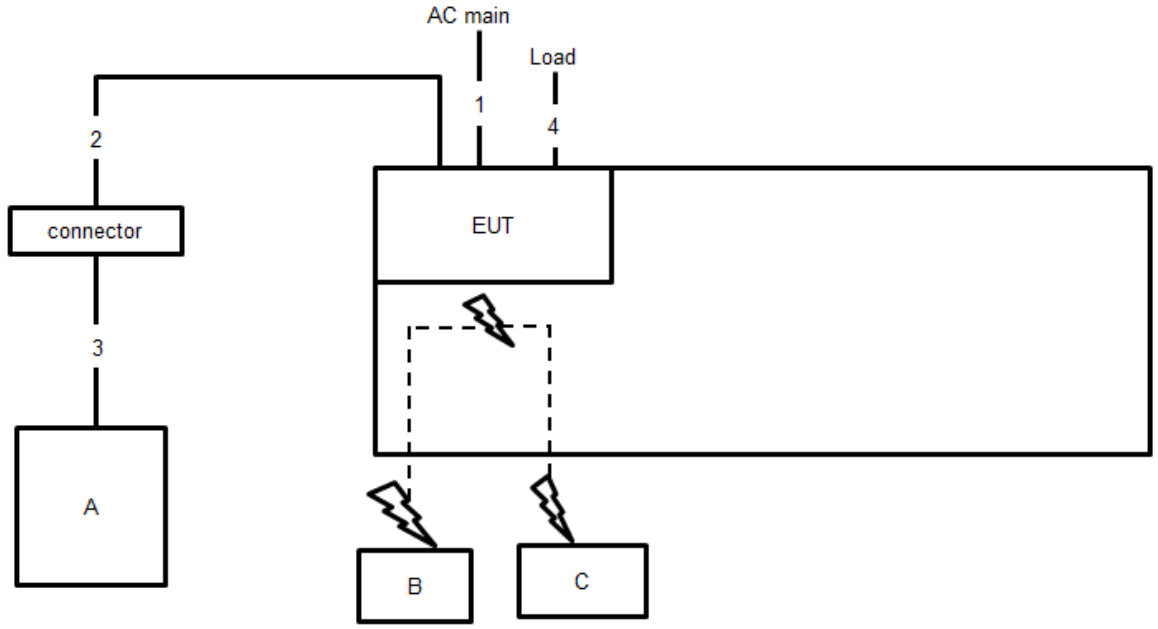
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	WLAN AP	ASUS	RT-AX88U	MSQ-RTAXHP00
C	Notebook	DELL	E4300	N/A

For RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A

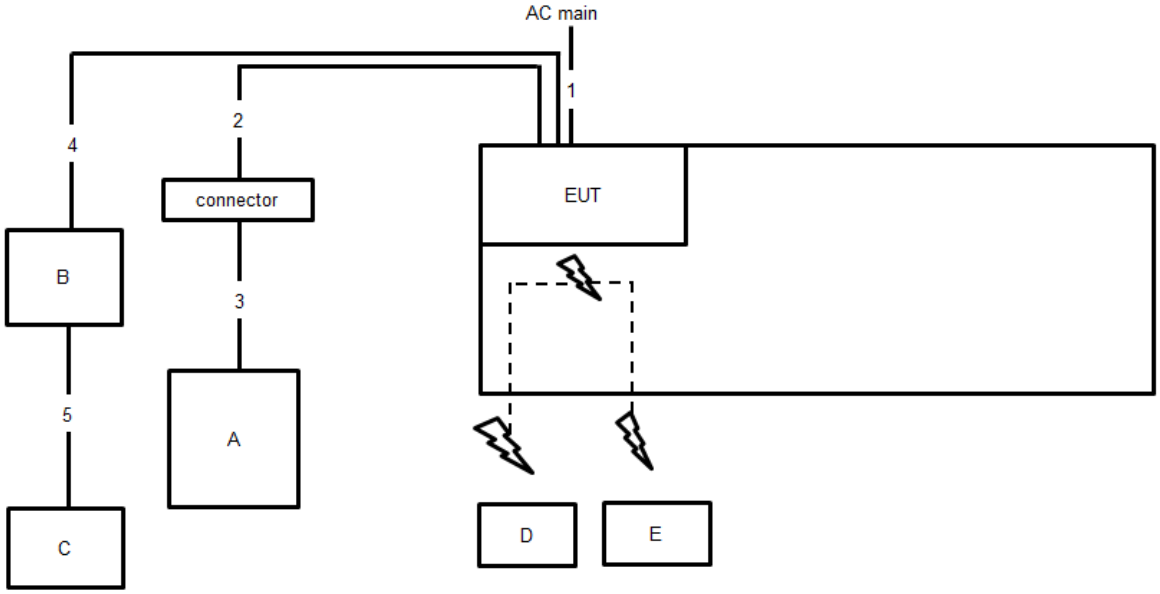
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test / Mode 1



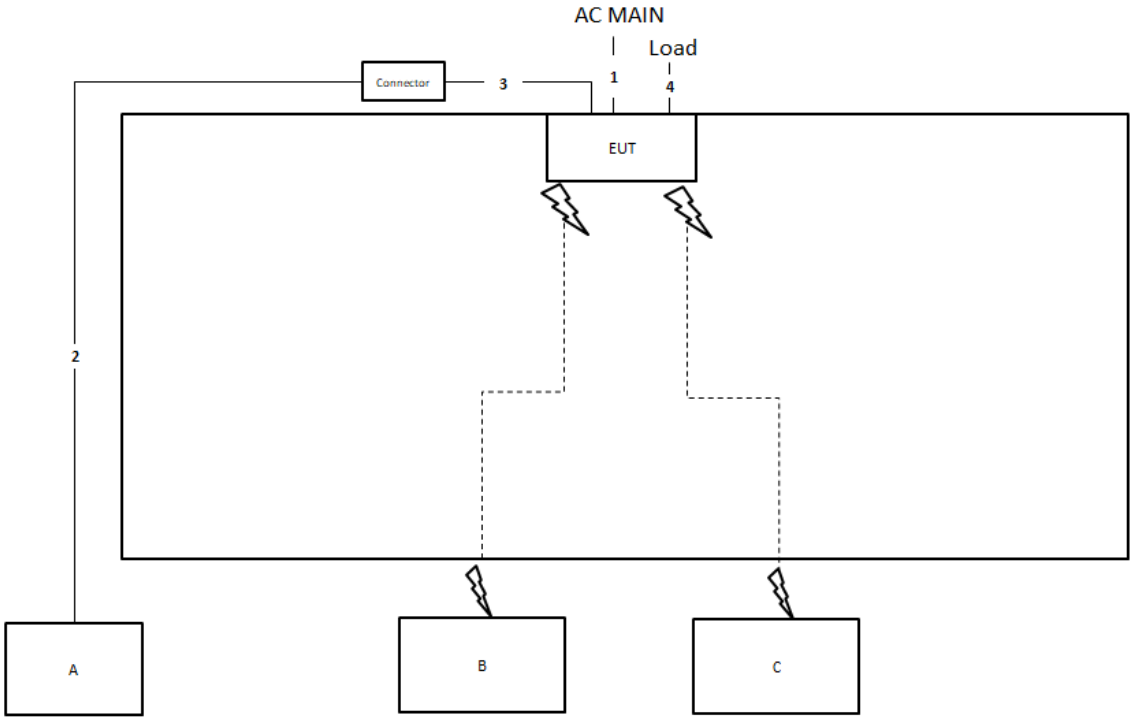
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	1.5m

Test Setup Diagram – AC Line Conducted Emission Test / Mode 2



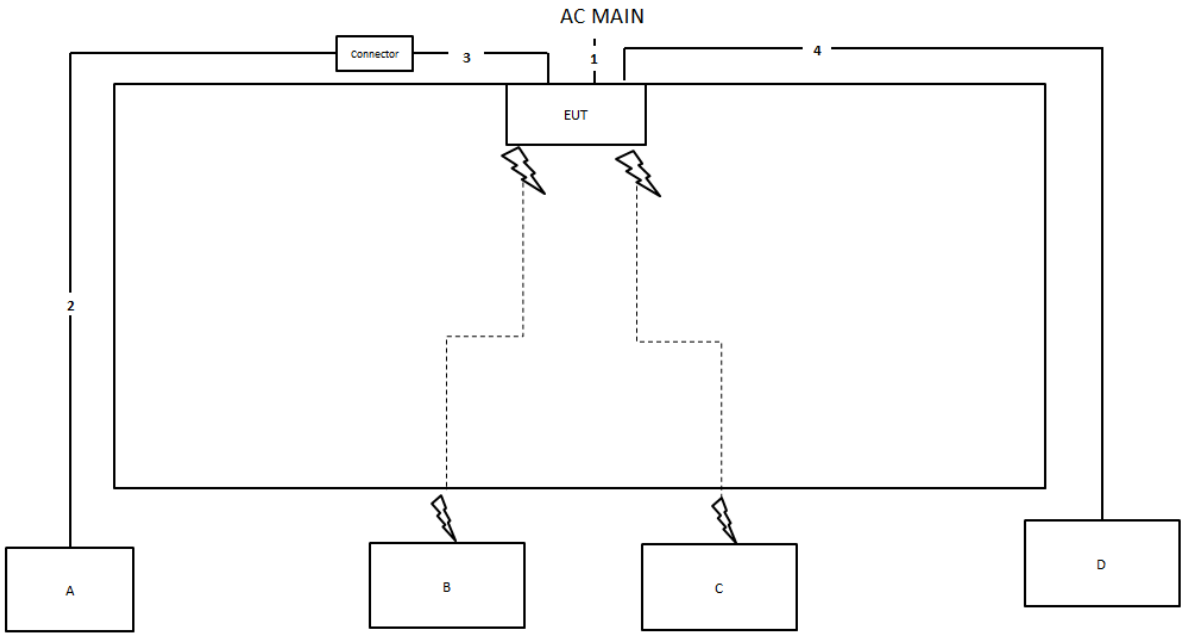
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m
5	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test < 1GHz / Mode 1



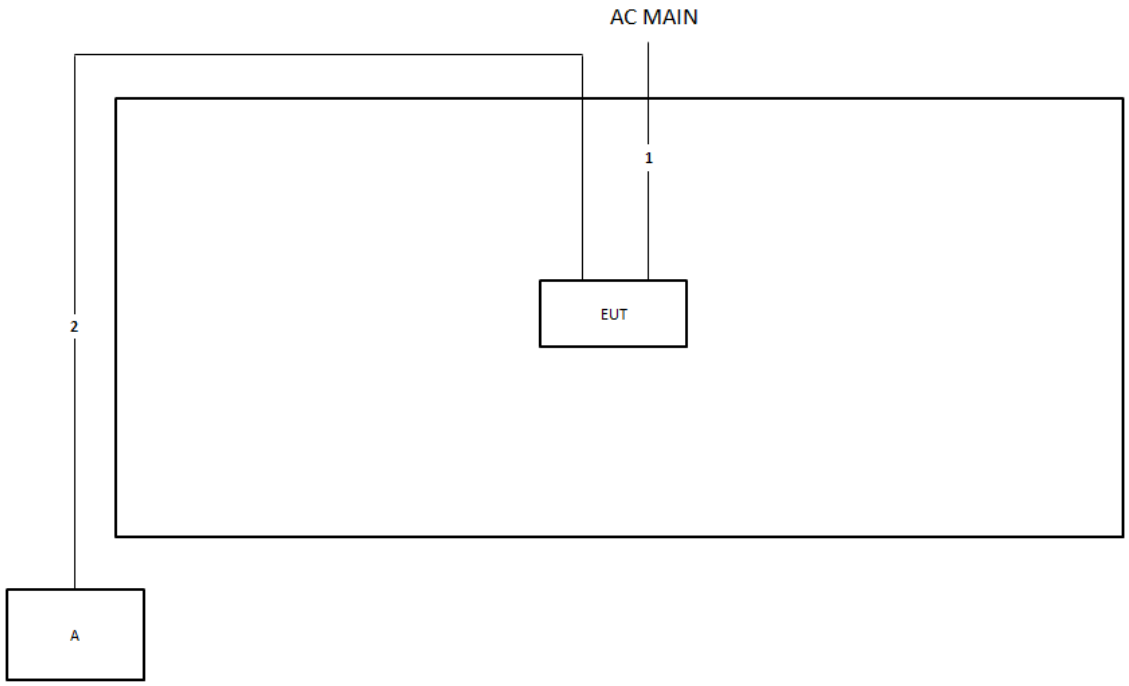
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m
4	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test < 1GHz / Mode 4



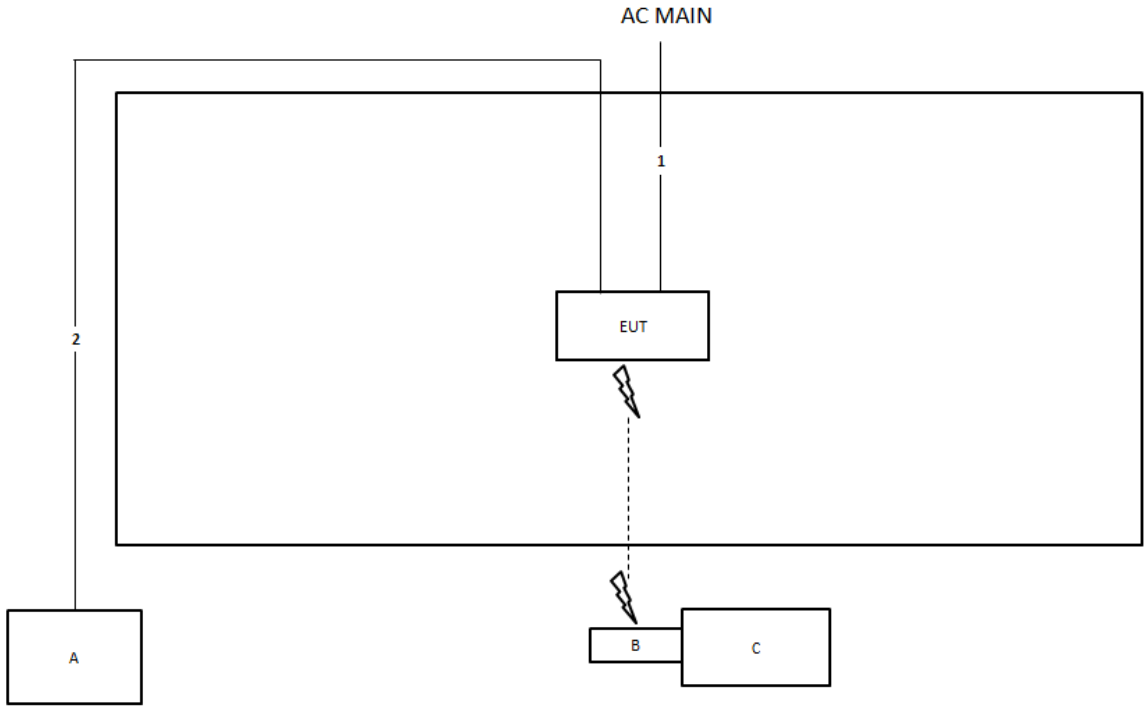
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m
4	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz / <Non-Beamforming Mode>



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz / <Beamforming Mode>



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m

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

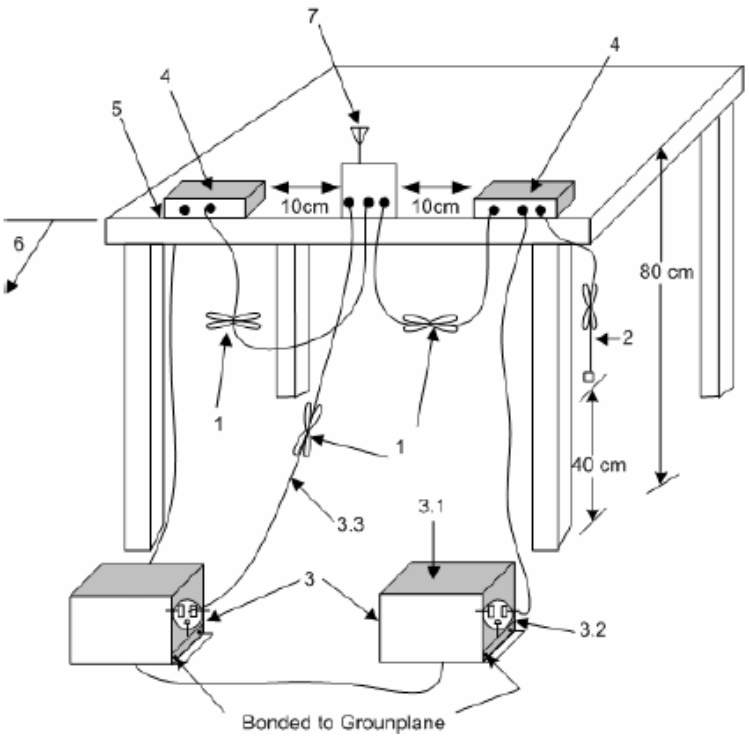
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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	
☒	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.
☐	For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.
LE-LAN Devices	
☐	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.
☐	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
☐	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
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

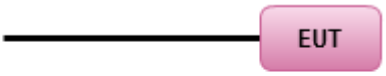
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method		
▪	For the emission bandwidth shall be measured using one of the options below:	
	☒	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.
	☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
	☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth
 Spectrum Analyzer  EUT

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	
☒	For the 5.15-5.25 GHz band:
	▪ 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 ≤ 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).
☒	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 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).
☒	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 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).
☒	For the 5.725-5.85 GHz band:
	▪ 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.
Maximum EIRP Limit	
☐	For the 5.85-5.895 GHz band:
	▪ Indoor AP & subordinate device < 36 dBm
	▪ Client device < 30 dBm
LE-LAN Devices	
☐	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.
☐	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
☐	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
☐	For the 5.725-5.85 GHz band:
	▪ 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

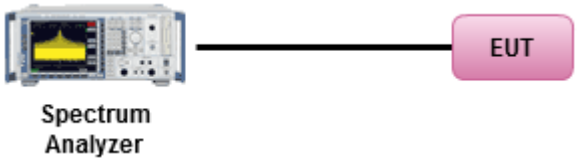
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

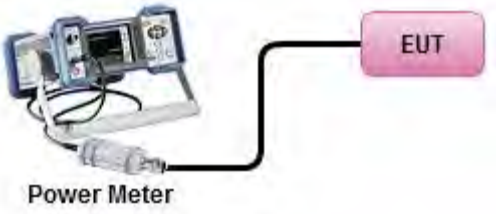
Test Method	
	Average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒	For conducted measurement.
	▪ 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.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
☐	For radiated measurement.
	▪ 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

For Straddle channel

Conducted Measurement (Spectrum Analyzer)


For other channel

Conducted Measurement (Power Meter)


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	
☒	For the 5.15-5.25 GHz band:
	▪ 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)..
☒	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).
☒	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).
☒	For the 5.725-5.85 GHz band:
	▪ 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.
EIRP Power Spectral Density Limit	
☐	For the 5.85-5.895 GHz band:
	▪ Indoor AP & subordinate device < 20dBm/MHz
	▪ Client device < 14dBm/MHz
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
	▪ 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° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45°
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
☐	For the 5.725-5.85 GHz band:
	▪ 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.
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.

3.4.2 Measuring Instruments

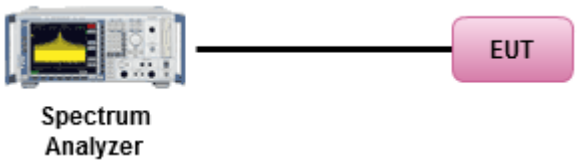
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method		
▪ 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:		
	☐ 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]	
	☒ Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).	
	☐ 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	
	☒ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).	
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
☒ For conducted measurement.		
	▪ If the EUT supports multiple transmit chains using options given below:	
		☒ 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.
		☐ 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,
		☐ 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.
	▪	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm])

Test Method		
		$EIRP_{total} = PPSD_{total} + DG$
☐ For radiated measurement.		
	▪	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.

3.4.4 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**
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 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.
☐ 5.85 - 5.895 GHz	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of - 7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz. (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/ MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
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.

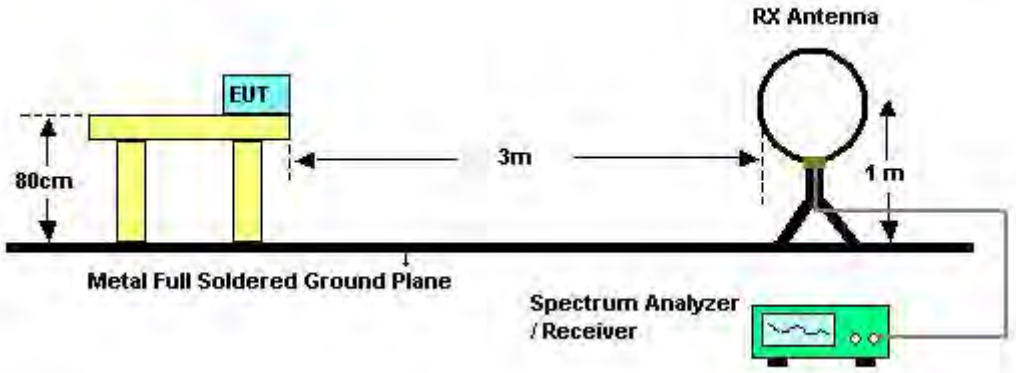
3.5.3 Test Procedures

Test Method		
▪ 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).		
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
▪ For the transmitter unwanted emissions shall be measured using following options below:		
	▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.	
	▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.	
		☐ Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
		☒ Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
		☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
		☒ Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
		☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
▪ For radiated measurement.		
	▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.	
	▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.	
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	
▪ The any unwanted emissions level shall not exceed the fundamental emission level.		
▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.		

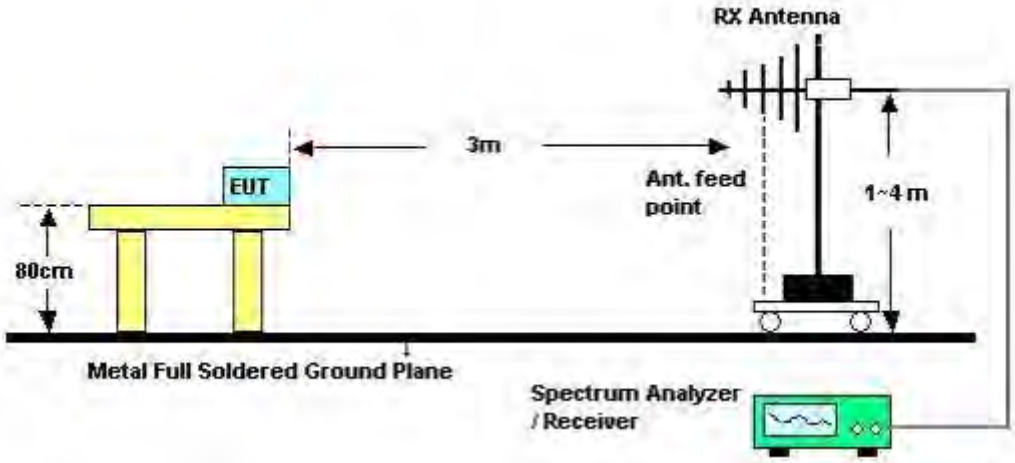
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

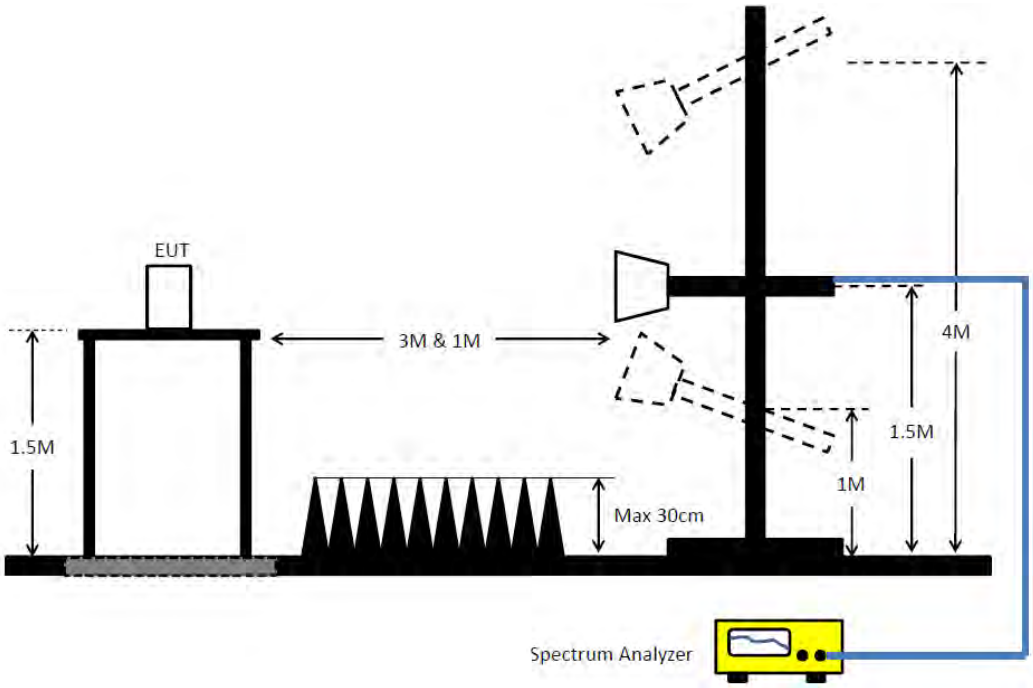
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30 MHz ~ 1 GHz	Aug. 08, 2021	Aug. 07, 2022	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	22021&AT-N0607	30MHz ~ 1GHz	Oct. 09, 2021	Oct. 08, 2022	Radiation (03CH04-CB)
Horn Antenna	ETS・Lindgren	3115	00143147	750MHz~18GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	310N	187291	0.1MHz ~ 1GHz	Dec. 16, 2021	Dec. 15, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH04-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 15, 2021	Apr. 14, 2022	Radiation (03CH04-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz – 1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 07, 2021	May 06, 2022	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2021	Nov. 05, 2022	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 20, 2021	May 19, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 03, 2021	May 02, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	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 3m	Mar. 27, 2021	Mar. 26, 2022	Radiation (03CH02-CB)
3m Semi Anechoic Chamber (NSA)	RIKEN	SAC-3M	03CH02-CB	30 MHz ~ 1 GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	May 04, 2021	May 03, 2022	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH02-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	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	1726195	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

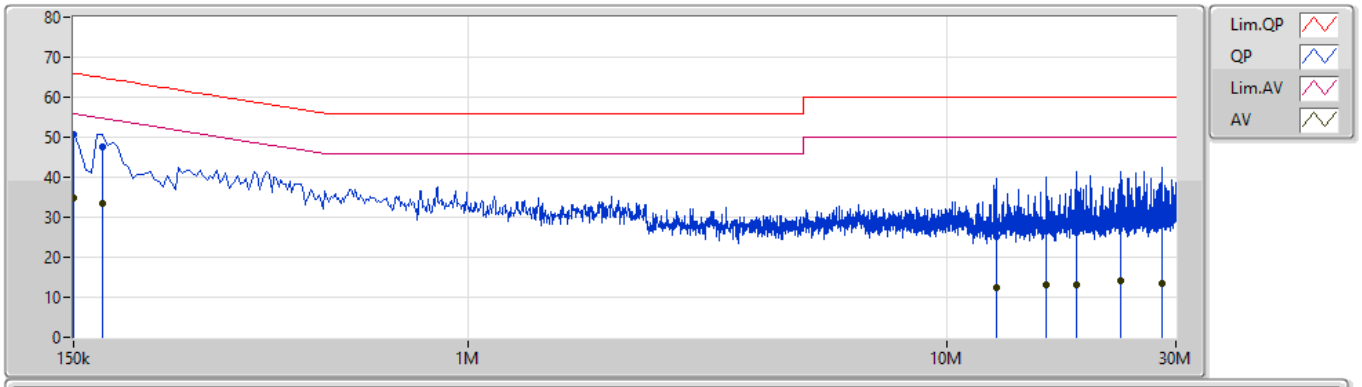
Note: Calibration Interval of instruments listed above is one year.
NCR means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	51.08	66.00	-14.92	Neutral
Mode 2	Pass	QP	150k	51.64	66.00	-14.36	Line

Mode 1

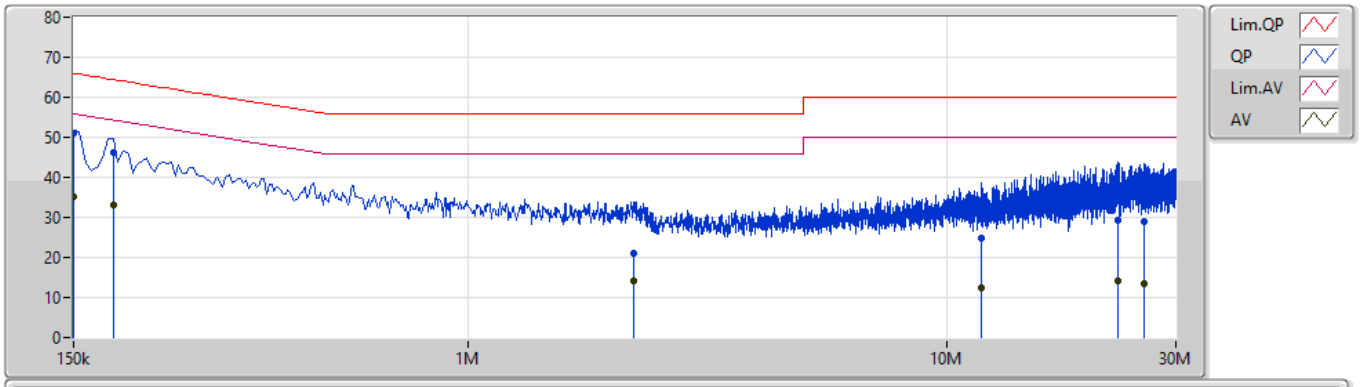
25/03/2022



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	50.61	66.00	-15.39	10.03	Line	"Worst"	40.58	0.12	0.02	9.89
AV	150k	34.94	56.00	-21.06	10.03	Line	-	24.91	0.12	0.02	9.89
QP	172.5k	47.60	64.83	-17.23	10.03	Line	-	37.57	0.12	0.02	9.89
AV	172.5k	33.57	54.83	-21.26	10.03	Line	-	23.54	0.12	0.02	9.89
QP	12.696M	25.30	60.00	-34.70	10.37	Line	-	14.93	0.35	0.09	9.93
AV	12.696M	12.47	50.00	-37.53	10.37	Line	-	2.10	0.35	0.09	9.93
QP	16.098M	26.57	60.00	-33.43	10.42	Line	-	16.15	0.37	0.11	9.94
AV	16.098M	13.22	50.00	-36.78	10.42	Line	-	2.80	0.37	0.11	9.94
QP	18.609M	26.31	60.00	-33.69	10.46	Line	-	15.85	0.38	0.12	9.96
AV	18.609M	13.11	50.00	-36.89	10.46	Line	-	2.65	0.38	0.12	9.96
QP	23.082M	30.32	60.00	-29.68	10.53	Line	-	19.79	0.39	0.17	9.97
AV	23.082M	13.97	50.00	-36.03	10.53	Line	-	3.44	0.39	0.17	9.97
QP	28.019M	30.17	60.00	-29.83	10.63	Line	-	19.54	0.41	0.22	10.00
AV	28.019M	13.59	50.00	-36.41	10.63	Line	-	2.96	0.41	0.22	10.00

Mode 1

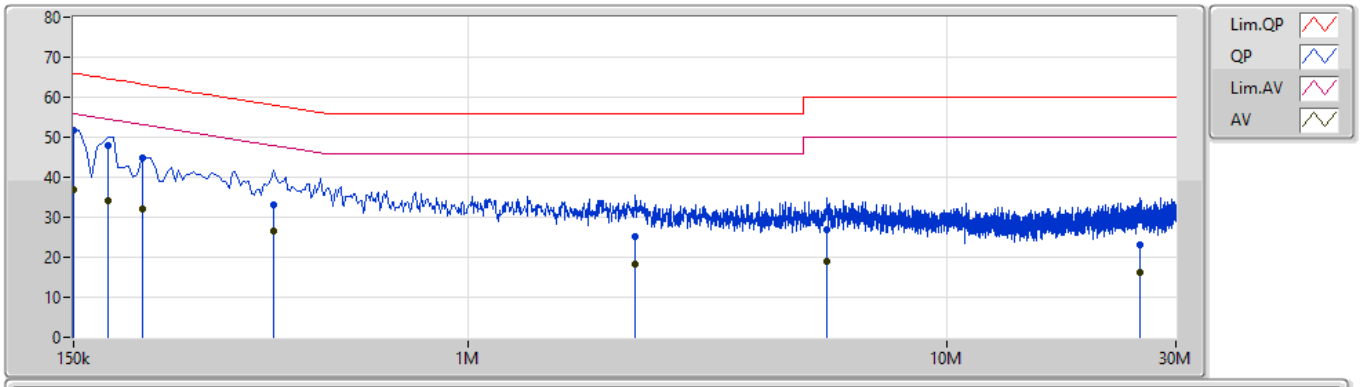
25/03/2022



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	51.08	66.00	-14.92	10.07	Neutral	"Worst"	41.01	0.16	0.02	9.89
AV	150k	35.28	56.00	-20.72	10.07	Neutral	-	25.21	0.16	0.02	9.89
QP	181.5k	46.17	64.41	-18.24	10.07	Neutral	-	36.10	0.16	0.02	9.89
AV	181.5k	32.96	54.41	-21.45	10.07	Neutral	-	22.89	0.16	0.02	9.89
QP	2.22M	21.18	56.00	-34.82	10.13	Neutral	-	11.05	0.19	0.05	9.89
AV	2.22M	14.13	46.00	-31.87	10.13	Neutral	-	4.00	0.19	0.05	9.89
QP	11.783M	24.85	60.00	-35.15	10.31	Neutral	-	14.54	0.30	0.09	9.92
AV	11.783M	12.30	50.00	-37.70	10.31	Neutral	-	1.99	0.30	0.09	9.92
QP	22.637M	29.20	60.00	-30.80	10.47	Neutral	-	18.73	0.34	0.16	9.97
AV	22.637M	14.21	50.00	-35.79	10.47	Neutral	-	3.74	0.34	0.16	9.97
QP	25.841M	28.88	60.00	-31.12	10.55	Neutral	-	18.33	0.36	0.21	9.98
AV	25.841M	13.29	50.00	-36.71	10.55	Neutral	-	2.74	0.36	0.21	9.98

Mode 2

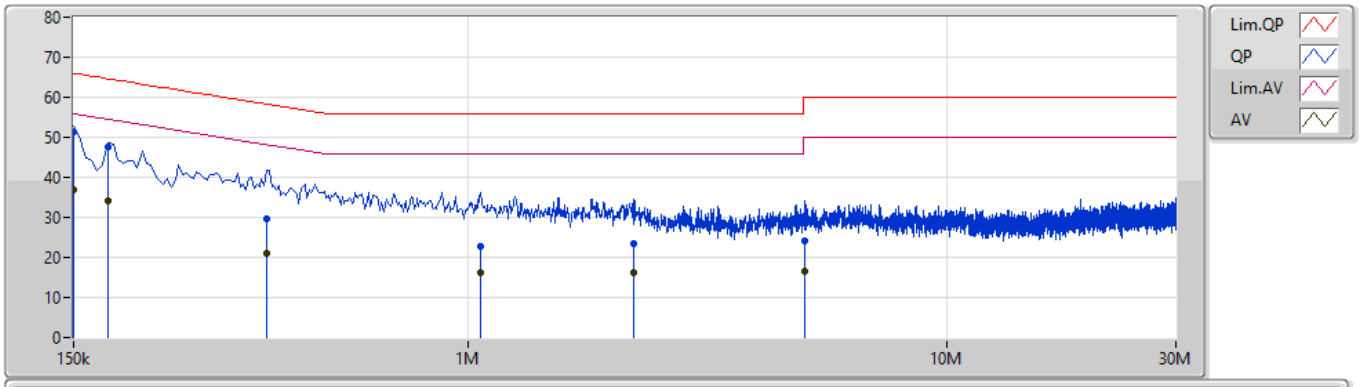
25/03/2022



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	51.64	66.00	-14.36	10.03	Line	"Worst"	41.61	0.12	0.02	9.89
AV	150k	37.01	56.00	-18.99	10.03	Line	-	26.98	0.12	0.02	9.89
QP	177k	47.94	64.62	-16.68	10.03	Line	-	37.91	0.12	0.02	9.89
AV	177k	34.15	54.62	-20.47	10.03	Line	-	24.12	0.12	0.02	9.89
QP	208.5k	44.80	63.27	-18.47	10.03	Line	-	34.77	0.12	0.02	9.89
AV	208.5k	31.92	53.27	-21.35	10.03	Line	-	21.89	0.12	0.02	9.89
QP	393k	33.24	58.01	-24.77	10.03	Line	-	23.21	0.12	0.02	9.89
AV	393k	26.50	48.01	-21.51	10.03	Line	-	16.47	0.12	0.02	9.89
QP	2.229M	25.34	56.00	-30.66	10.12	Line	-	15.22	0.18	0.05	9.89
AV	2.229M	18.41	46.00	-27.59	10.12	Line	-	8.29	0.18	0.05	9.89
QP	5.586M	26.80	60.00	-33.20	10.24	Line	-	16.56	0.27	0.07	9.90
AV	5.586M	19.13	50.00	-30.87	10.24	Line	-	8.89	0.27	0.07	9.90
QP	25.251M	23.15	60.00	-36.85	10.57	Line	-	12.58	0.40	0.20	9.97
AV	25.251M	16.05	50.00	-33.95	10.57	Line	-	5.48	0.40	0.20	9.97

Mode 2

25/03/2022



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT			
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)			
QP	150k	51.39	66.00	-14.61	10.07	Neutral	"Worst"	41.32	0.16	0.02	9.89			
AV	150k	36.90	56.00	-19.10	10.07	Neutral	-	26.83	0.16	0.02	9.89			
QP	177k	47.59	64.62	-17.03	10.07	Neutral	-	37.52	0.16	0.02	9.89			
AV	177k	34.16	54.62	-20.46	10.07	Neutral	-	24.09	0.16	0.02	9.89			
QP	379.5k	29.78	58.29	-28.51	10.07	Neutral	-	19.71	0.16	0.02	9.89			
AV	379.5k	21.11	48.29	-27.18	10.07	Neutral	-	11.04	0.16	0.02	9.89			
QP	1.059M	22.93	56.00	-33.07	10.08	Neutral	-	12.85	0.17	0.02	9.89			
AV	1.059M	16.16	46.00	-29.84	10.08	Neutral	-	6.08	0.17	0.02	9.89			
QP	2.22M	23.56	56.00	-32.44	10.13	Neutral	-	13.43	0.19	0.05	9.89			
AV	2.22M	16.07	46.00	-29.93	10.13	Neutral	-	5.94	0.19	0.05	9.89			
QP	5.055M	24.16	60.00	-35.84	10.21	Neutral	-	13.95	0.24	0.07	9.90			
AV	5.055M	16.60	50.00	-33.40	10.21	Neutral	-	6.39	0.24	0.07	9.90			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	41.97M	23.838M	23M8D1D	22.77M	17.031M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	46.65M	25.577M	25M6D1D	23.61M	19.19M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	70.62M	39.46M	39M5D1D	40.2M	37.961M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.961M	78M0D1D	81.6M	77.721M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	82.88M	78.441M	78M4D1D	82.48M	78.281M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	23.85M	17.061M	17M1D1D	21.3M	16.912M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.81M	19.16M	19M2D1D	21.51M	19.1M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.74M	37.961M	38M0D1D	40.32M	37.841M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.841M	77M8D1D	81.6M	77.601M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	83.28M	78.521M	78M5D1D	82.32M	78.361M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.56M	17.091M	17M1D1D	15.675M	13.493M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.05M	19.16M	19M2D1D	15.735M	14.558M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.92M	38.021M	38M0D1D	35.14M	33.863M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.721M	77M7D1D	75.675M	73.388M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.36M	157.121M	157MD1D	164.64M	156.402M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.5M	29.925M	29M9D1D	3.14M	4.178M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.93M	32.024M	32M0D1D	4.42M	4.658M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.74M	65.787M	65M8D1D	3.78M	4.118M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	77.52M	80.36M	80M4D1D	3.74M	4.178M

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

Result

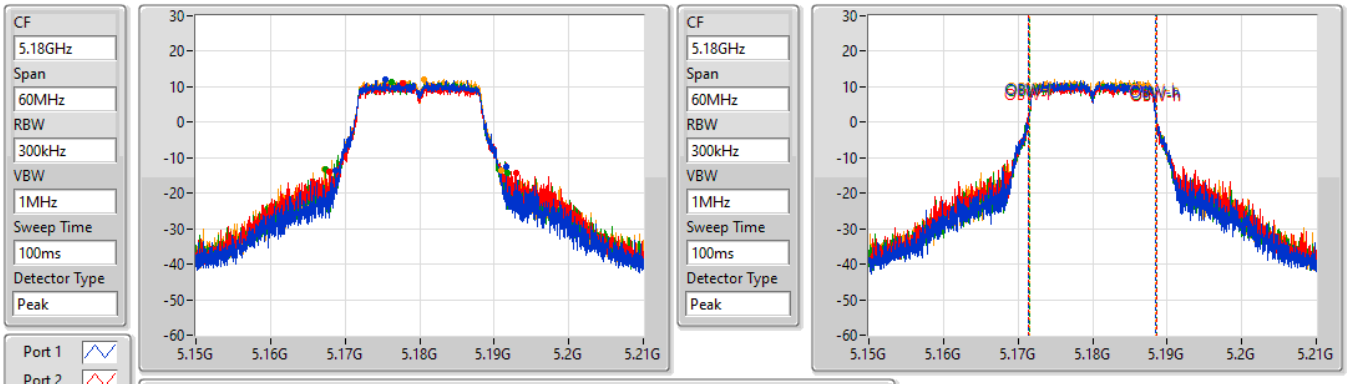
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.77M	17.091M	25.02M	17.211M	24.42M	17.061M	23.76M	17.031M
5200MHz	Pass	Inf	37.14M	18.351M	41.97M	23.838M	38.88M	19.1M	40.83M	21.649M
5240MHz	Pass	Inf	29.7M	17.421M	39M	19.43M	36.63M	17.601M	38.52M	18.081M
5260MHz	Pass	Inf	21.51M	17.061M	23.85M	17.031M	21.45M	16.942M	21.42M	16.912M
5300MHz	Pass	Inf	21.51M	17.061M	23.61M	17.061M	21.45M	16.942M	21.45M	16.912M
5320MHz	Pass	Inf	21.66M	17.061M	23.37M	17.061M	21.72M	16.972M	21.3M	16.942M
5500MHz	Pass	Inf	21.48M	17.061M	21.84M	17.061M	21.36M	16.942M	21.51M	16.912M
5580MHz	Pass	Inf	21.45M	17.061M	21.78M	17.031M	21.63M	16.972M	21.36M	16.942M
5700MHz	Pass	Inf	21.45M	17.091M	22.56M	17.061M	21.57M	16.972M	21.42M	16.882M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.735M	13.628M	15.87M	13.598M	15.675M	13.523M	15.705M	13.493M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	4.178M	3.14M	4.218M	3.16M	4.198M	3.24M	4.178M
5745MHz	Pass	500k	16.32M	18.651M	16.38M	28.906M	16.32M	22.729M	16.5M	19.04M
5785MHz	Pass	500k	16.32M	18.501M	16.5M	29.565M	16.32M	23.898M	16.35M	18.801M
5825MHz	Pass	500k	16.32M	19.19M	16.47M	29.925M	16.38M	26.027M	16.29M	18.471M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.61M	19.22M	30M	19.31M	26.61M	19.22M	27.48M	19.19M
5200MHz	Pass	Inf	45.51M	20M	44.55M	19.73M	43.41M	20.36M	46.65M	25.577M
5240MHz	Pass	Inf	28.44M	19.28M	43.32M	19.79M	34.32M	19.37M	41.01M	19.46M
5260MHz	Pass	Inf	21.57M	19.1M	21.6M	19.16M	21.51M	19.1M	21.57M	19.1M
5300MHz	Pass	Inf	21.57M	19.13M	21.75M	19.13M	21.72M	19.1M	21.54M	19.1M
5320MHz	Pass	Inf	21.75M	19.1M	21.81M	19.13M	21.6M	19.13M	21.57M	19.1M
5500MHz	Pass	Inf	21.72M	19.1M	21.69M	19.07M	21.93M	19.1M	21.69M	19.1M
5580MHz	Pass	Inf	21.63M	19.16M	21.69M	19.1M	21.96M	19.1M	21.78M	19.1M
5700MHz	Pass	Inf	22.05M	19.1M	21.72M	19.1M	21.81M	19.13M	21.66M	19.1M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.81M	14.588M	15.855M	14.618M	15.825M	14.603M	15.735M	14.558M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.698M	4.42M	4.718M	4.52M	4.698M	4.54M	4.658M
5745MHz	Pass	500k	18.84M	19.76M	18.93M	31.964M	18.9M	23.658M	18.9M	19.94M
5785MHz	Pass	500k	18.63M	19.73M	18.39M	31.844M	18.66M	26.177M	18.9M	19.76M
5825MHz	Pass	500k	18.87M	19.76M	18.33M	32.024M	18.9M	27.256M	18.84M	19.61M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.44M	37.961M	40.26M	38.021M	40.2M	38.021M	40.38M	38.021M
5230MHz	Pass	Inf	52.26M	38.201M	70.62M	39.46M	59.94M	38.441M	68.76M	38.501M
5270MHz	Pass	Inf	40.62M	37.901M	40.56M	37.961M	40.32M	37.961M	40.38M	37.841M
5310MHz	Pass	Inf	40.74M	37.901M	40.44M	37.961M	40.68M	37.961M	40.62M	37.901M
5510MHz	Pass	Inf	40.56M	37.961M	40.32M	38.021M	40.5M	37.901M	40.32M	37.961M
5550MHz	Pass	Inf	40.44M	37.961M	40.26M	37.901M	40.5M	37.961M	40.44M	37.961M
5670MHz	Pass	Inf	40.92M	37.901M	40.26M	38.021M	40.38M	37.961M	40.56M	37.901M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.28M	33.863M	35.245M	33.933M	35.175M	33.863M	35.14M	33.863M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.94M	4.118M	3.88M	4.358M	3.98M	4.118M	3.78M	4.138M
5755MHz	Pass	500k	37.56M	38.621M	37.44M	59.31M	37.26M	47.196M	37.68M	38.801M
5795MHz	Pass	500k	37.56M	39.1M	37.74M	65.787M	37.44M	57.991M	37.62M	39.76M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	77.721M	81.6M	77.841M	81.84M	77.721M	82.08M	77.961M
5290MHz	Pass	Inf	81.96M	77.601M	81.6M	77.841M	81.84M	77.721M	82.2M	77.721M
5530MHz	Pass	Inf	81.84M	77.721M	81.96M	77.721M	81.48M	77.481M	81.72M	77.481M
5610MHz	Pass	Inf	81.72M	77.601M	81.6M	77.721M	82.2M	77.721M	81.96M	77.481M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.125M	73.388M	75.675M	73.538M	75.975M	73.388M	75.975M	73.538M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.82M	4.178M	3.8M	5.137M	3.74M	4.198M	3.78M	4.198M
5775MHz	Pass	500k	76.32M	77.961M	77.52M	80.36M	76.8M	78.801M	76.92M	77.961M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.8M	78.441M	82.88M	78.441M	82.48M	78.441M	82.8M	78.281M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	83.12M	78.441M	83.28M	78.521M	82.72M	78.361M	82.32M	78.361M
5570MHz	Pass	Inf	164.88M	156.402M	165.36M	157.121M	164.64M	156.642M	164.64M	156.642M

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

802.11a_Nss1,(6Mbps)_4TX EBW

5180MHz

25/03/2022

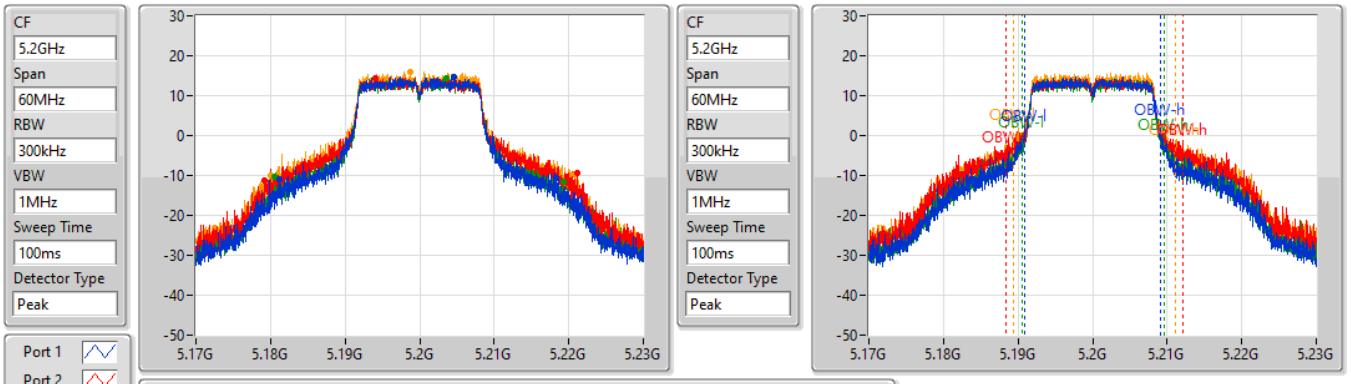


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.77M	5.16878G	5.19155G	17.091M	5.171424G	5.188516G	Inf	1
25.02M	5.16788G	5.1929G	17.211M	5.171364G	5.188576G	Inf	2
24.42M	5.16731G	5.19173G	17.061M	5.171484G	5.188546G	Inf	3
23.76M	5.16725G	5.19101G	17.031M	5.171484G	5.188516G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5200MHz

25/03/2022

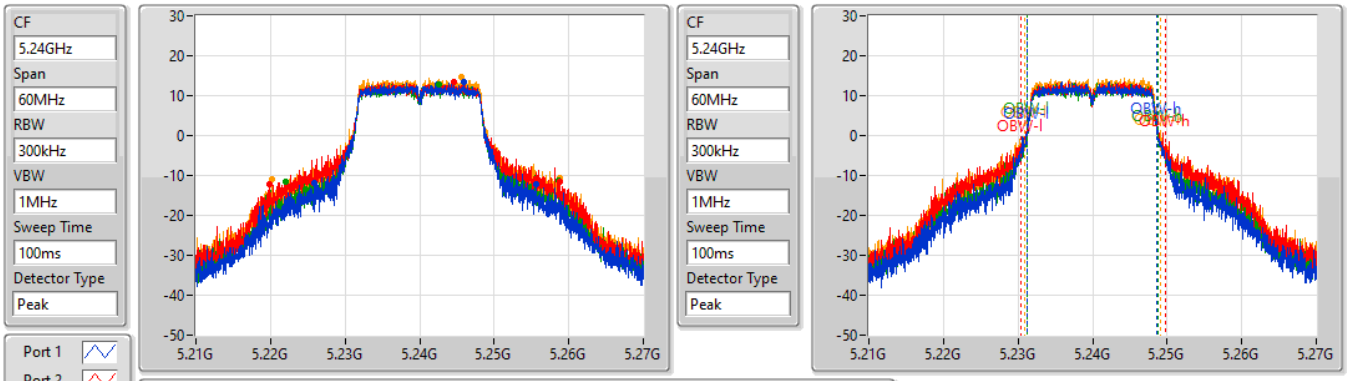


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.14M	5.18113G	5.21827G	18.351M	5.190825G	5.209175G	Inf	1
41.97M	5.17921G	5.22118G	23.838M	5.188306G	5.212144G	Inf	2
38.88M	5.18047G	5.21935G	19.1M	5.190525G	5.209625G	Inf	3
40.83M	5.18005G	5.22088G	21.649M	5.189385G	5.211034G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5240MHz

25/03/2022

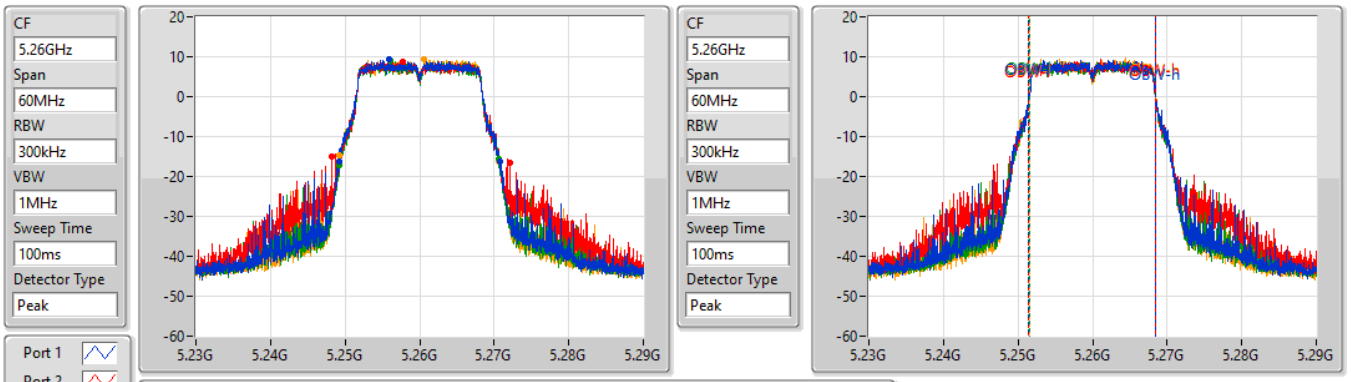


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.7M	5.22587G	5.25557G	17.421M	5.231244G	5.248666G	Inf	1
39M	5.21984G	5.25884G	19.43M	5.230315G	5.249745G	Inf	2
36.63M	5.22203G	5.25866G	17.601M	5.231244G	5.248846G	Inf	3
38.52M	5.22026G	5.25878G	18.081M	5.230945G	5.249025G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5260MHz

25/03/2022

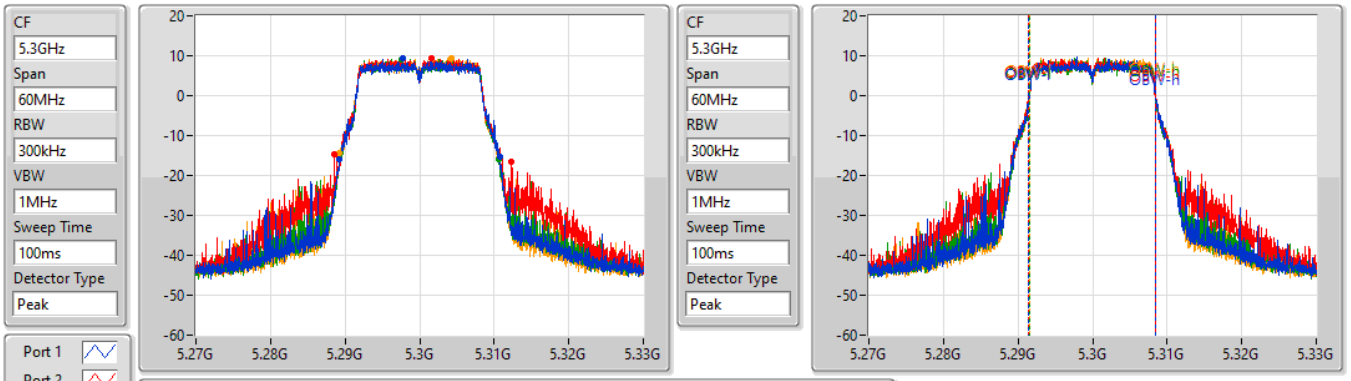


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.51M	5.2492G	5.27071G	17.061M	5.251454G	5.268516G	Inf	1
23.85M	5.24827G	5.27212G	17.031M	5.251454G	5.268486G	Inf	2
21.45M	5.24923G	5.27068G	16.942M	5.251514G	5.268456G	Inf	3
21.42M	5.24926G	5.27068G	16.912M	5.251514G	5.268426G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5300MHz

25/03/2022

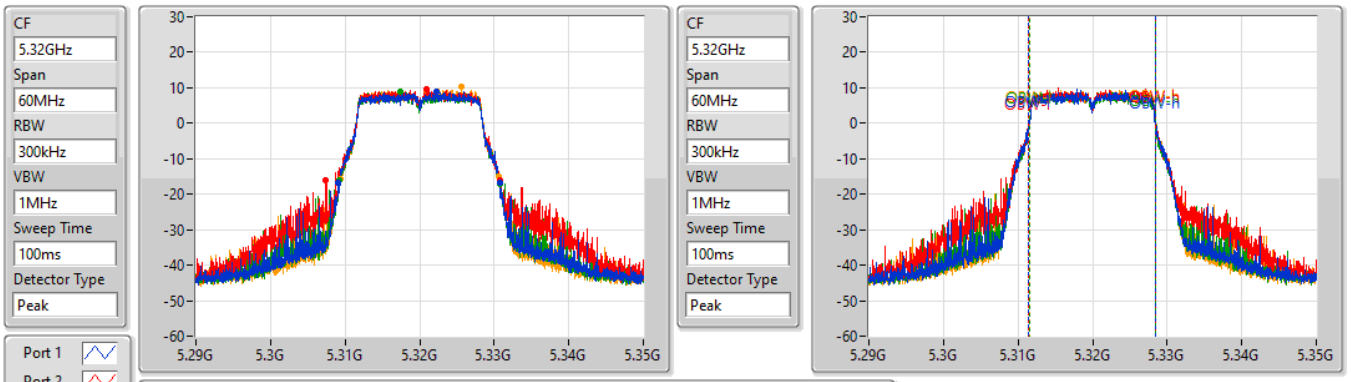


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.51M	5.28929G	5.3108G	17.061M	5.291454G	5.308516G	Inf	1
23.61M	5.2886G	5.31221G	17.061M	5.291454G	5.308516G	Inf	2
21.45M	5.28923G	5.31068G	16.942M	5.291514G	5.308456G	Inf	3
21.45M	5.2892G	5.31065G	16.912M	5.291514G	5.308426G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5320MHz

25/03/2022

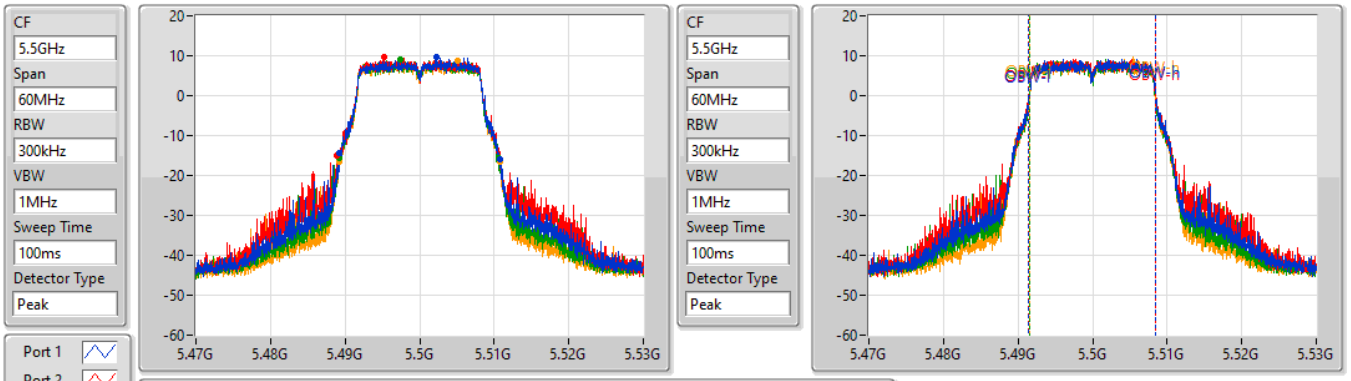


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.66M	5.30908G	5.33074G	17.061M	5.311454G	5.328516G	Inf	1
23.37M	5.3074G	5.33077G	17.061M	5.311454G	5.328516G	Inf	2
21.72M	5.30914G	5.33086G	16.972M	5.311514G	5.328486G	Inf	3
21.3M	5.30932G	5.33062G	16.942M	5.311514G	5.328456G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5500MHz

25/03/2022

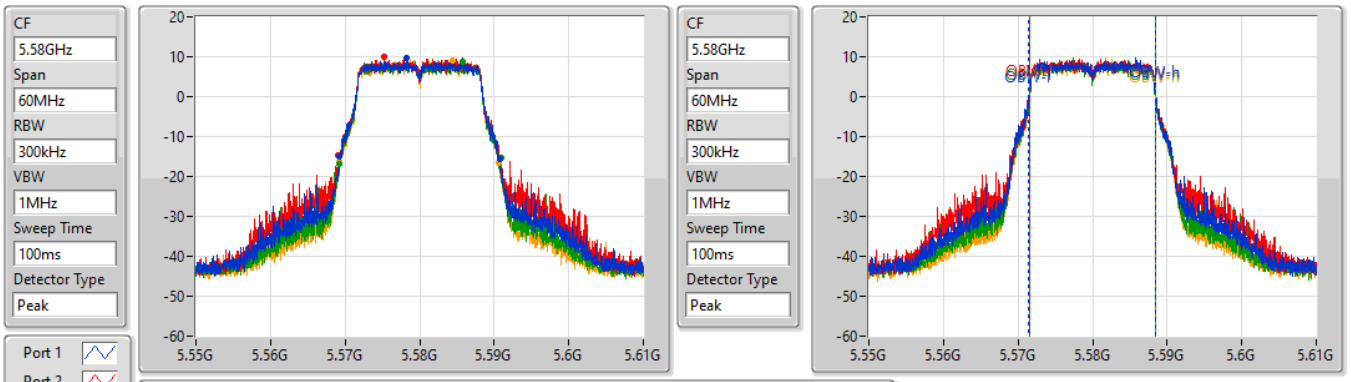


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.48M	5.48923G	5.51071G	17.061M	5.491454G	5.508516G	Inf	1
21.84M	5.48896G	5.5108G	17.061M	5.491454G	5.508516G	Inf	2
21.36M	5.489226G	5.51062G	16.942M	5.491514G	5.508456G	Inf	3
21.51M	5.4892G	5.51071G	16.912M	5.491514G	5.508426G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5580MHz

25/03/2022

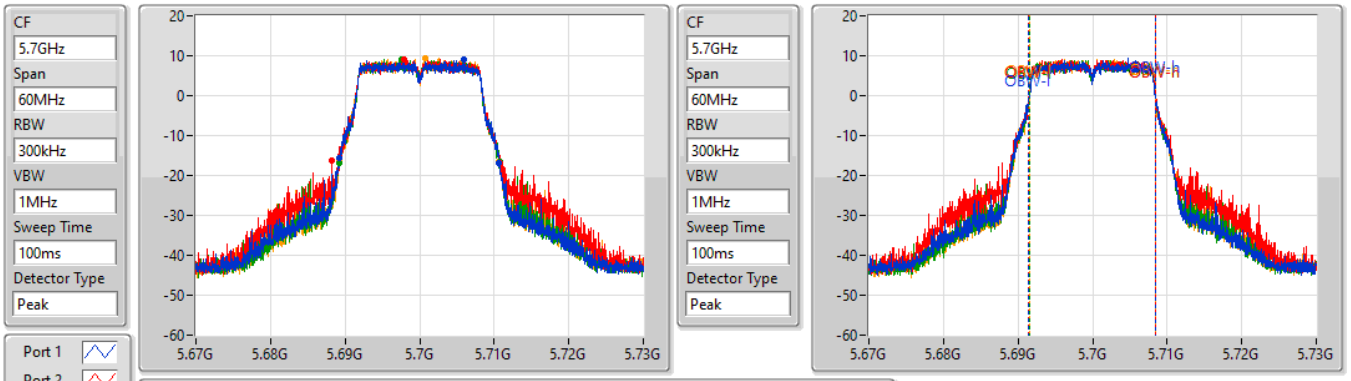


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.45M	5.56929G	5.59074G	17.061M	5.571424G	5.588486G	Inf	1
21.78M	5.56905G	5.59083G	17.031M	5.571484G	5.588516G	Inf	2
21.63M	5.56926G	5.59089G	16.972M	5.571514G	5.588486G	Inf	3
21.36M	5.56929G	5.59065G	16.942M	5.571514G	5.588456G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5700MHz

25/03/2022

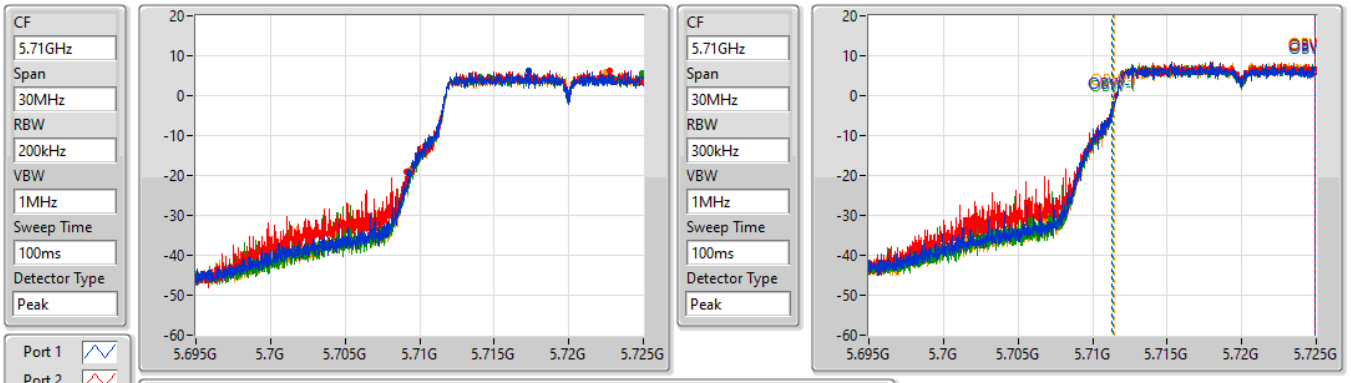


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.45M	5.68923G	5.71068G	17.091M	5.691394G	5.708486G	Inf	1
22.56M	5.6883G	5.71086G	17.061M	5.691454G	5.708516G	Inf	2
21.57M	5.68926G	5.71083G	16.972M	5.691514G	5.708486G	Inf	3
21.42M	5.68926G	5.71068G	16.882M	5.691544G	5.708426G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5720MHz Straddle 5.47-5.725GHz

25/03/2022

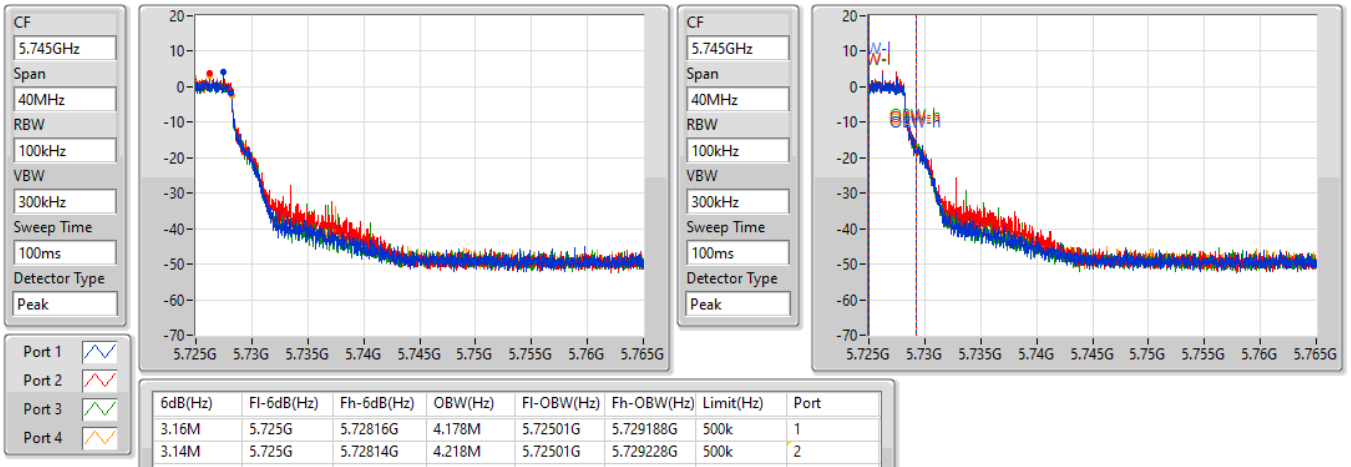


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.735M	5.709265G	5.725G	13.628M	5.711304G	5.724933G	Inf	1
15.87M	5.70913G	5.725G	13.598M	5.711334G	5.724933G	Inf	2
15.675M	5.709325G	5.725G	13.523M	5.711409G	5.724933G	Inf	3
15.705M	5.709295G	5.725G	13.493M	5.711454G	5.724948G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5720MHz Straddle 5.725-5.85GHz

25/03/2022

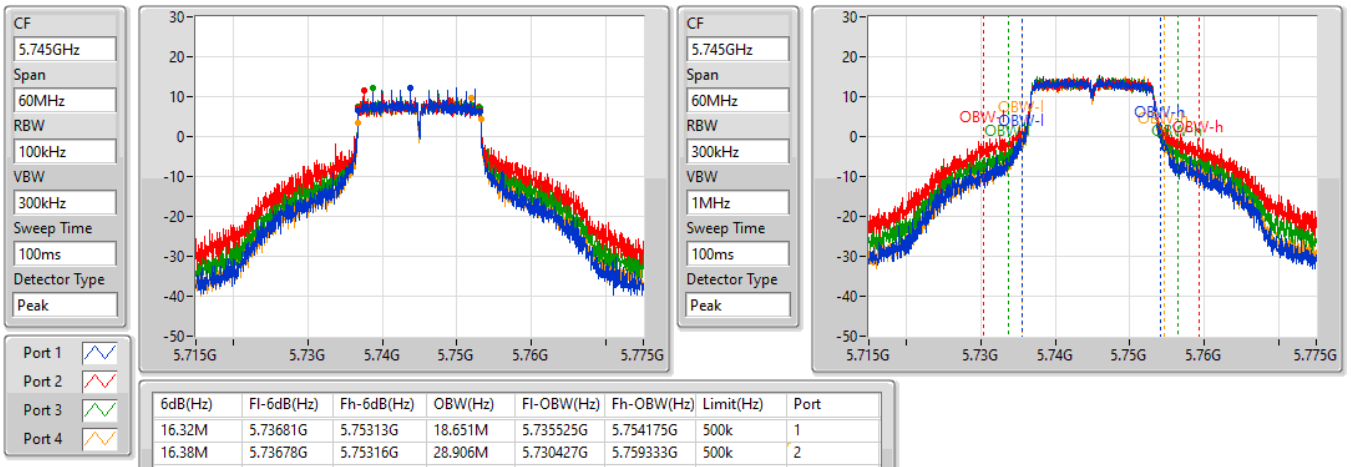


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.16M	5.725G	5.72816G	4.178M	5.72501G	5.729188G	500k	1
3.14M	5.725G	5.72814G	4.218M	5.72501G	5.729228G	500k	2
3.16M	5.725G	5.72816G	4.198M	5.72501G	5.729208G	500k	3
3.24M	5.725G	5.72824G	4.178M	5.72501G	5.729188G	500k	4

802.11a_Nss1,(6Mbps)_4TX EBW

5745MHz

25/03/2022

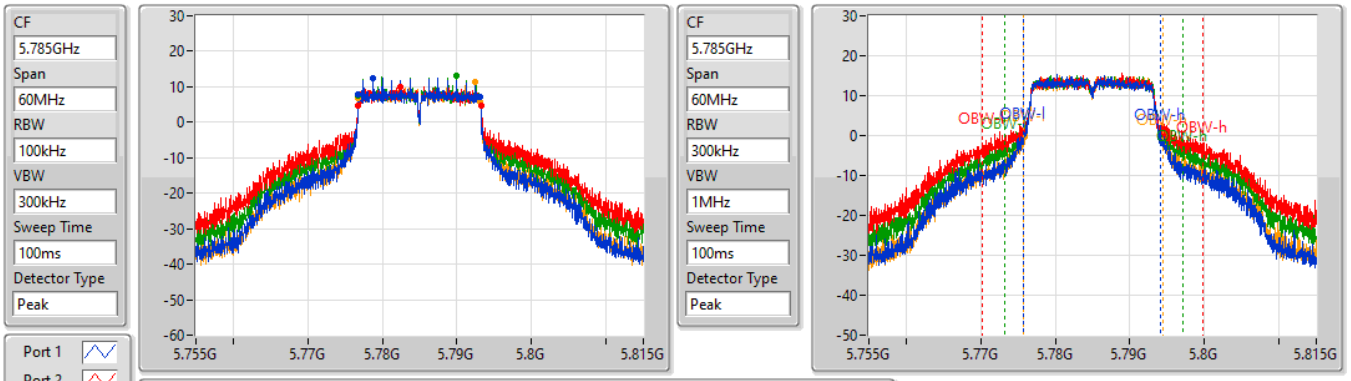


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.73681G	5.75313G	18.651M	5.735525G	5.754175G	500k	1
16.38M	5.73678G	5.75316G	28.906M	5.730427G	5.759333G	500k	2
16.32M	5.73681G	5.75313G	22.729M	5.733726G	5.756454G	500k	3
16.5M	5.73672G	5.75322G	19.04M	5.735555G	5.754595G	500k	4

802.11a_Nss1,(6Mbps)_4TX EBW

5785MHz

25/03/2022

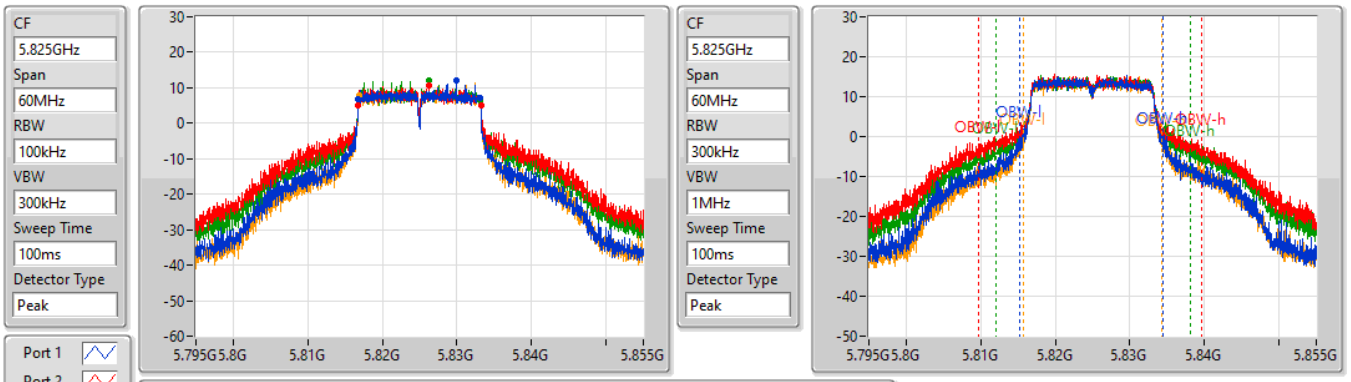


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.77681G	5.79313G	18.501M	5.775645G	5.794145G	500k	1
16.5M	5.77672G	5.79322G	29.565M	5.770247G	5.799813G	500k	2
16.32M	5.77681G	5.79313G	23.898M	5.7732246G	5.7971144G	500k	3
16.35M	5.77681G	5.79316G	18.801M	5.775645G	5.794445G	500k	4

802.11a_Nss1,(6Mbps)_4TX EBW

5825MHz

25/03/2022

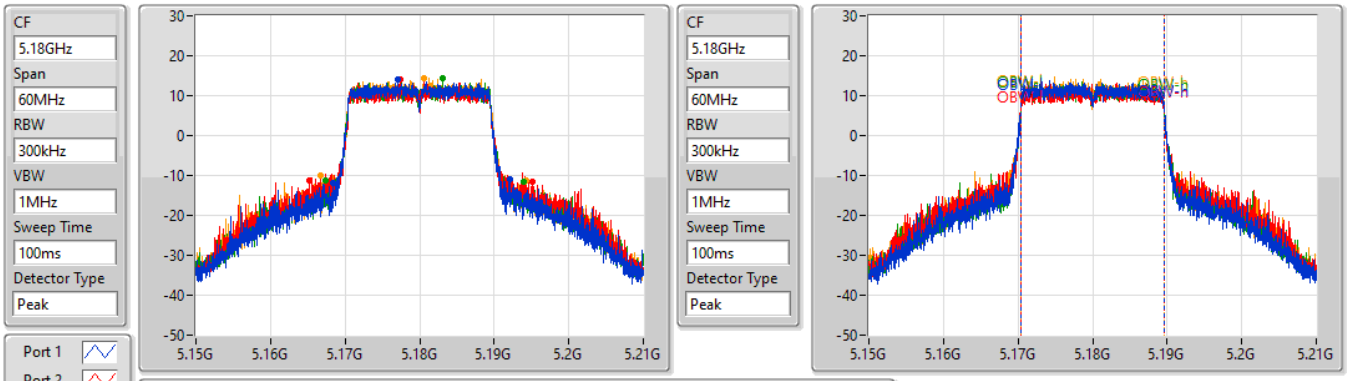


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.81681G	5.83313G	19.19M	5.815195G	5.834385G	500k	1
16.47M	5.81672G	5.83319G	29.925M	5.809768G	5.839693G	500k	2
16.38M	5.81678G	5.83316G	26.027M	5.812046G	5.838073G	500k	3
16.29M	5.81684G	5.83313G	18.471M	5.815795G	5.834265G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5180MHz

25/03/2022

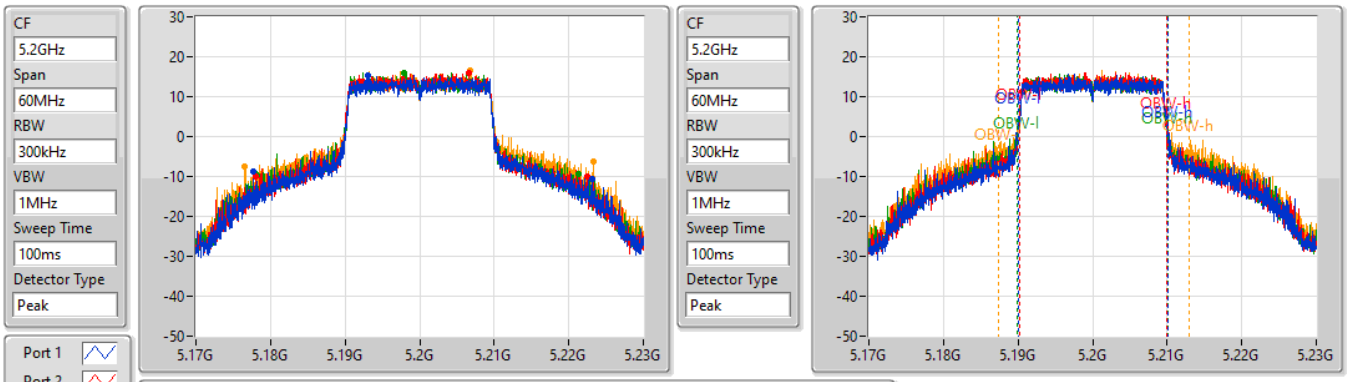


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.61M	5.16845G	5.19206G	19.22M	5.170375G	5.189595G	Inf	1
30M	5.16515G	5.19515G	19.31M	5.170315G	5.189625G	Inf	2
26.61M	5.16734G	5.19395G	19.22M	5.170375G	5.189595G	Inf	3
27.48M	5.16677G	5.19425G	19.19M	5.170375G	5.189565G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5200MHz

28/04/2022

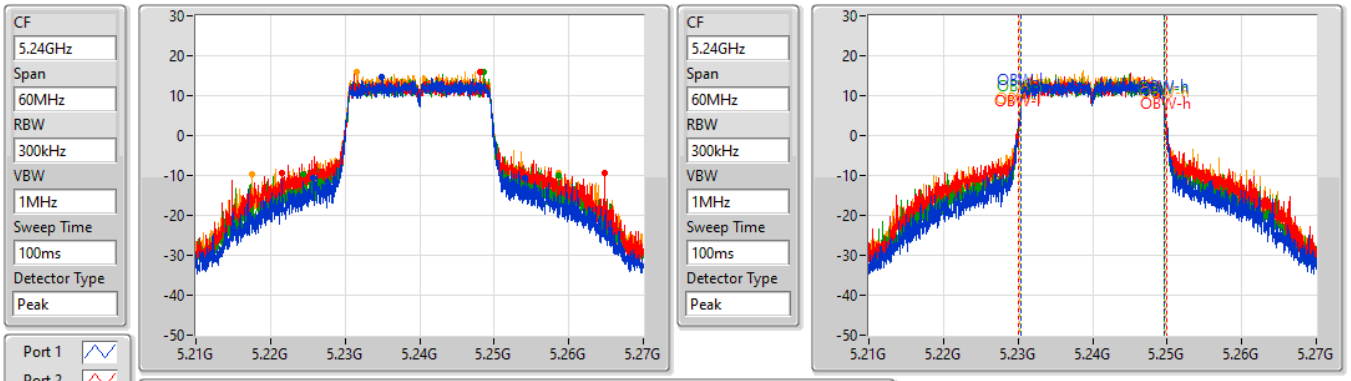


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
45.51M	5.17768G	5.22319G	20M	5.190075G	5.210075G	Inf	1
44.55M	5.17801G	5.22256G	19.73M	5.190195G	5.209925G	Inf	2
43.41M	5.17798G	5.22139G	20.36M	5.189835G	5.210195G	Inf	3
46.65M	5.1766G	5.22325G	25.577M	5.187436G	5.213013G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5240MHz

25/03/2022

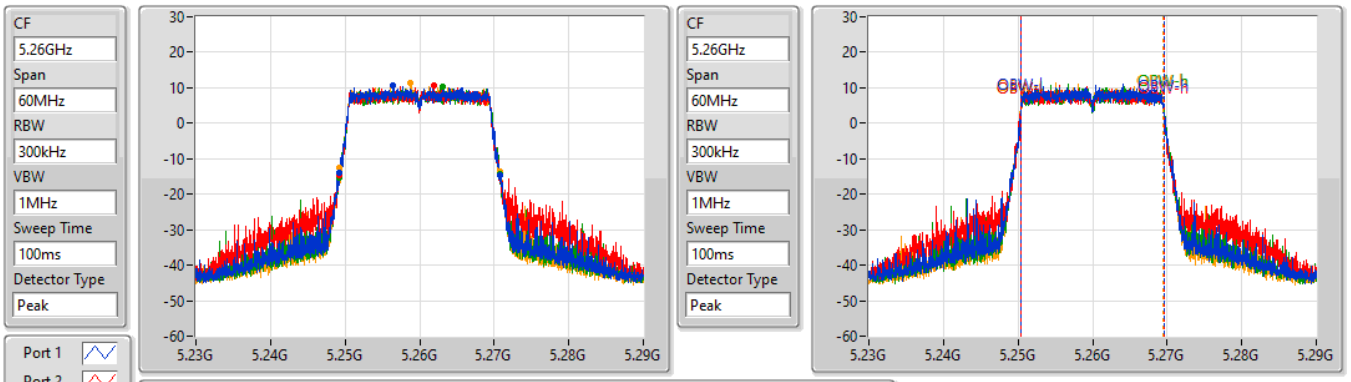


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.44M	5.22575G	5.25419G	19.28M	5.230345G	5.249625G	Inf	1
43.32M	5.22146G	5.26478G	19.79M	5.230105G	5.249895G	Inf	2
34.32M	5.22437G	5.25869G	19.37M	5.230315G	5.249685G	Inf	3
41.01M	5.21756G	5.25857G	19.46M	5.230255G	5.249715G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5260MHz

25/03/2022

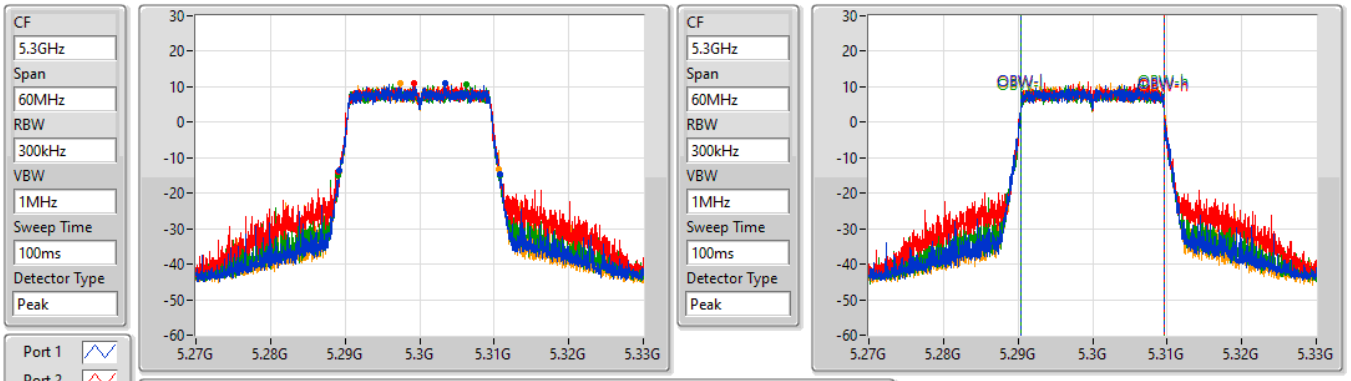


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.57M	5.24917G	5.27074G	19.1M	5.250435G	5.269535G	Inf	1
21.6M	5.24926G	5.27086G	19.16M	5.250375G	5.269535G	Inf	2
21.51M	5.2492G	5.27071G	19.1M	5.250435G	5.269535G	Inf	3
21.57M	5.24914G	5.27071G	19.1M	5.250405G	5.269505G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5300MHz

25/03/2022

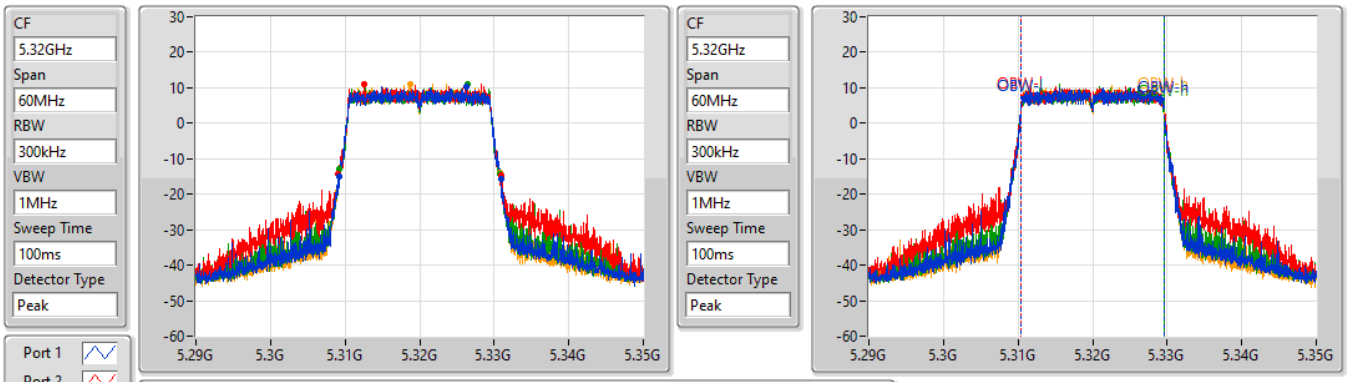


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.57M	5.28926G	5.31083G	19.13M	5.290405G	5.309535G	Inf	1
21.75M	5.28911G	5.31086G	19.13M	5.290435G	5.309565G	Inf	2
21.72M	5.28908G	5.3108G	19.1M	5.290435G	5.309535G	Inf	3
21.54M	5.28914G	5.31068G	19.1M	5.290435G	5.309535G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5320MHz

25/03/2022

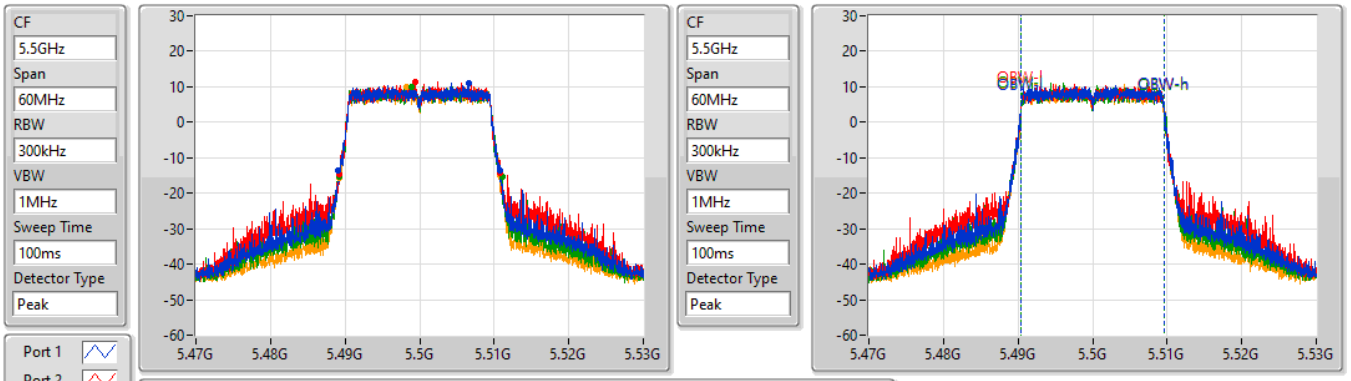


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.30914G	5.33089G	19.1M	5.310435G	5.329535G	Inf	1
21.81M	5.30908G	5.33089G	19.13M	5.310435G	5.329565G	Inf	2
21.6M	5.30923G	5.33083G	19.13M	5.310435G	5.329565G	Inf	3
21.57M	5.3092G	5.33077G	19.1M	5.310435G	5.329535G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5500MHz

25/03/2022

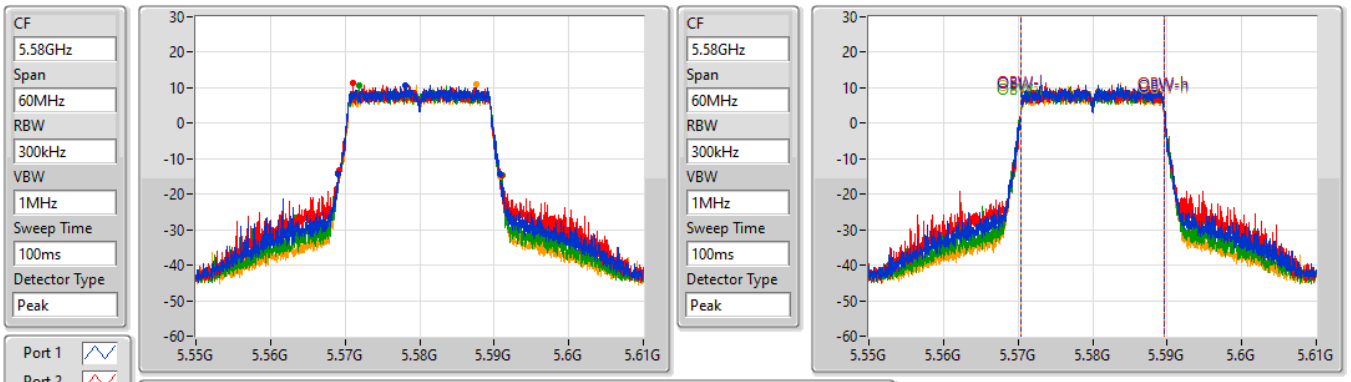


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.72M	5.48908G	5.5108G	19.1M	5.490435G	5.509535G	Inf	1
21.69M	5.48917G	5.51086G	19.07M	5.490465G	5.509535G	Inf	2
21.93M	5.48914G	5.51107G	19.1M	5.490435G	5.509535G	Inf	3
21.69M	5.48914G	5.51083G	19.1M	5.490435G	5.509535G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5580MHz

25/03/2022

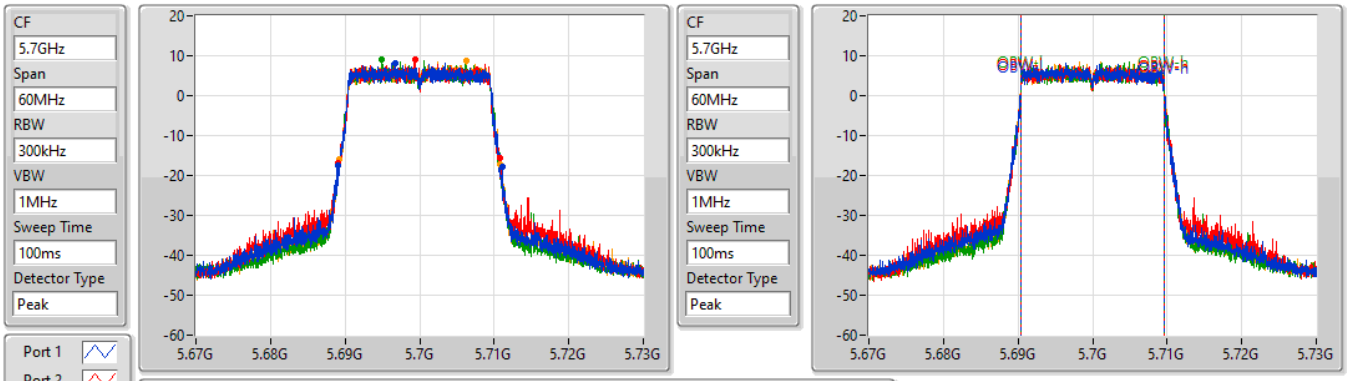


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.63M	5.56911G	5.59074G	19.16M	5.570435G	5.589595G	Inf	1
21.69M	5.56929G	5.59098G	19.1M	5.570435G	5.589535G	Inf	2
21.96M	5.56908G	5.59104G	19.1M	5.570435G	5.589535G	Inf	3
21.78M	5.56908G	5.59086G	19.1M	5.570435G	5.589535G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5700MHz

25/03/2022

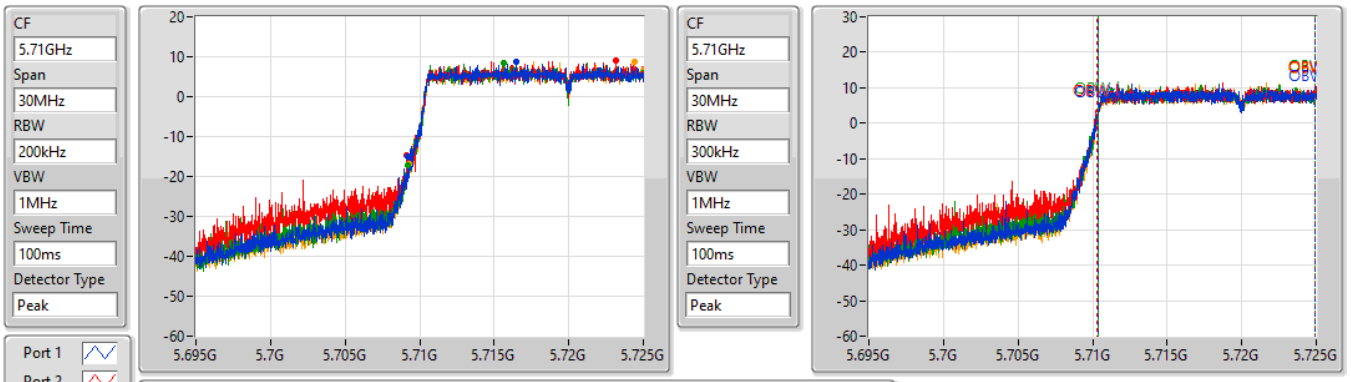


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.05M	5.68902G	5.71107G	19.1M	5.690435G	5.709535G	Inf	1
21.72M	5.68899G	5.71071G	19.1M	5.690435G	5.709535G	Inf	2
21.81M	5.689055G	5.71086G	19.13M	5.690435G	5.709565G	Inf	3
21.66M	5.6892G	5.71086G	19.1M	5.690435G	5.709535G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5720MHz Straddle 5.47-5.725GHz

25/03/2022

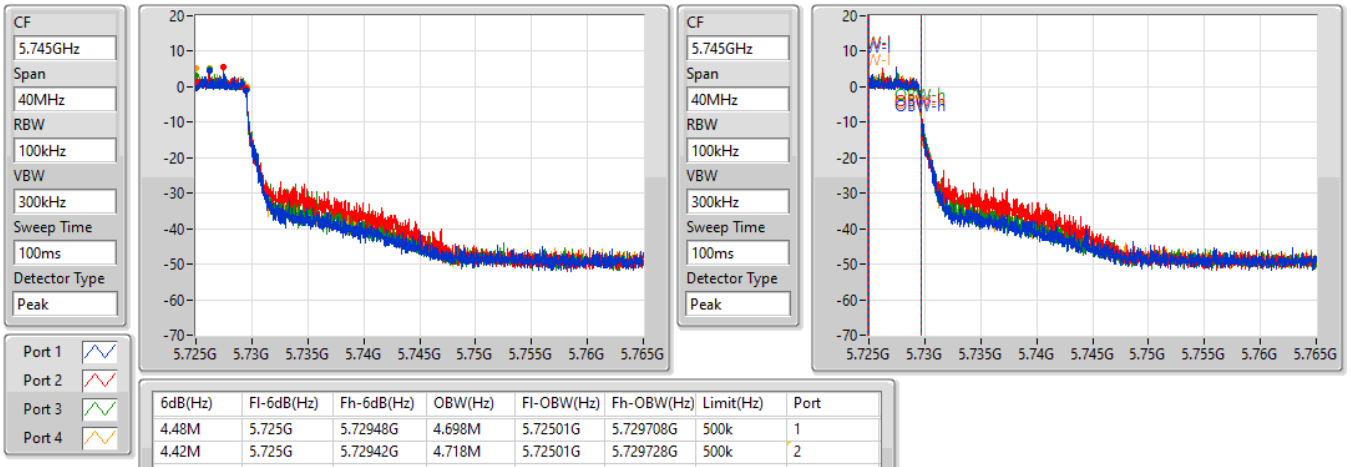


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.81M	5.70919G	5.725G	14.588M	5.710345G	5.724933G	Inf	1
15.855M	5.709145G	5.725G	14.618M	5.71033G	5.724948G	Inf	2
15.825M	5.709175G	5.725G	14.603M	5.710345G	5.724948G	Inf	3
15.735M	5.709265G	5.725G	14.558M	5.710375G	5.724933G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5720MHz Straddle 5.725-5.85GHz

25/03/2022

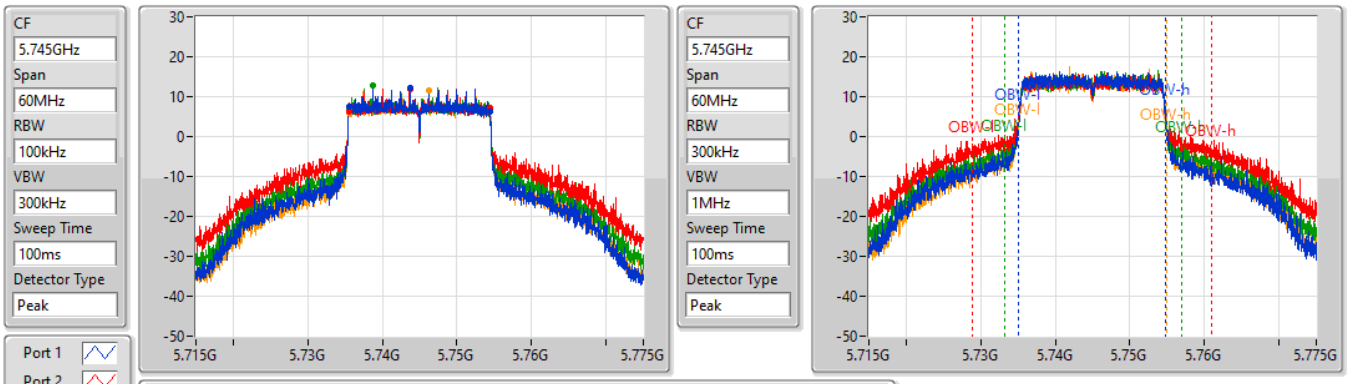


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.48M	5.725G	5.72948G	4.698M	5.72501G	5.729708G	500k	1
4.42M	5.725G	5.72942G	4.718M	5.72501G	5.729728G	500k	2
4.52M	5.725G	5.72952G	4.698M	5.72501G	5.729708G	500k	3
4.54M	5.725G	5.72954G	4.658M	5.72503G	5.729688G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5745MHz

25/03/2022

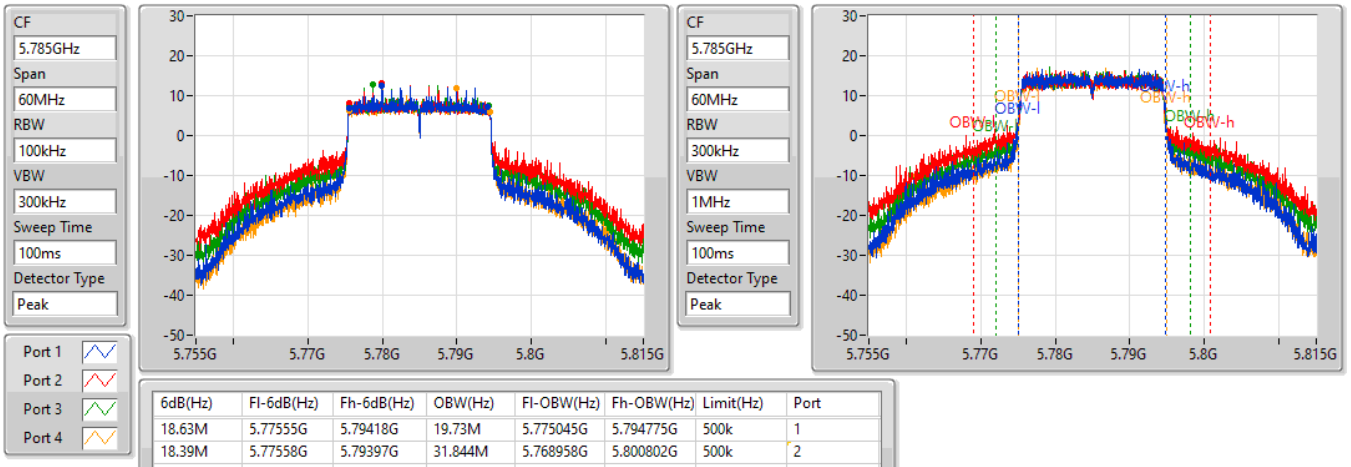


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.84M	5.73561G	5.75445G	19.76M	5.735075G	5.754835G	500k	1
18.93M	5.73549G	5.75442G	31.964M	5.728928G	5.760892G	500k	2
18.9M	5.73549G	5.75439G	23.658M	5.733276G	5.756934G	500k	3
18.9M	5.73555G	5.75445G	19.94M	5.735045G	5.754985G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5785MHz

25/03/2022

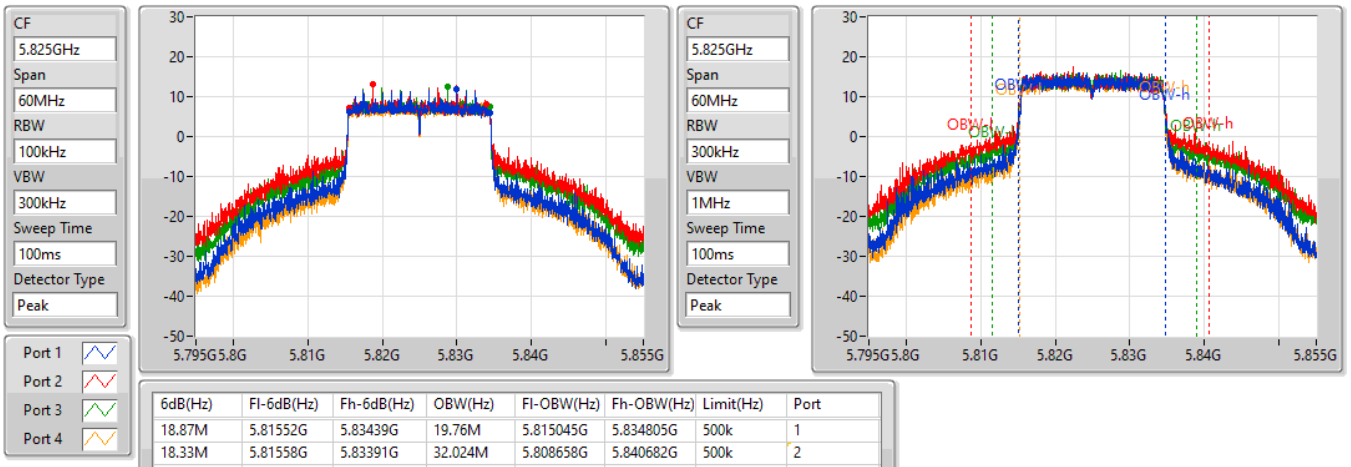


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.63M	5.77555G	5.79418G	19.73M	5.775045G	5.794775G	500k	1
18.39M	5.77558G	5.79397G	31.844M	5.768958G	5.800802G	500k	2
18.66M	5.77558G	5.79424G	26.177M	5.772016G	5.798193G	500k	3
18.9M	5.77552G	5.79442G	19.76M	5.775135G	5.794895G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5825MHz

25/03/2022

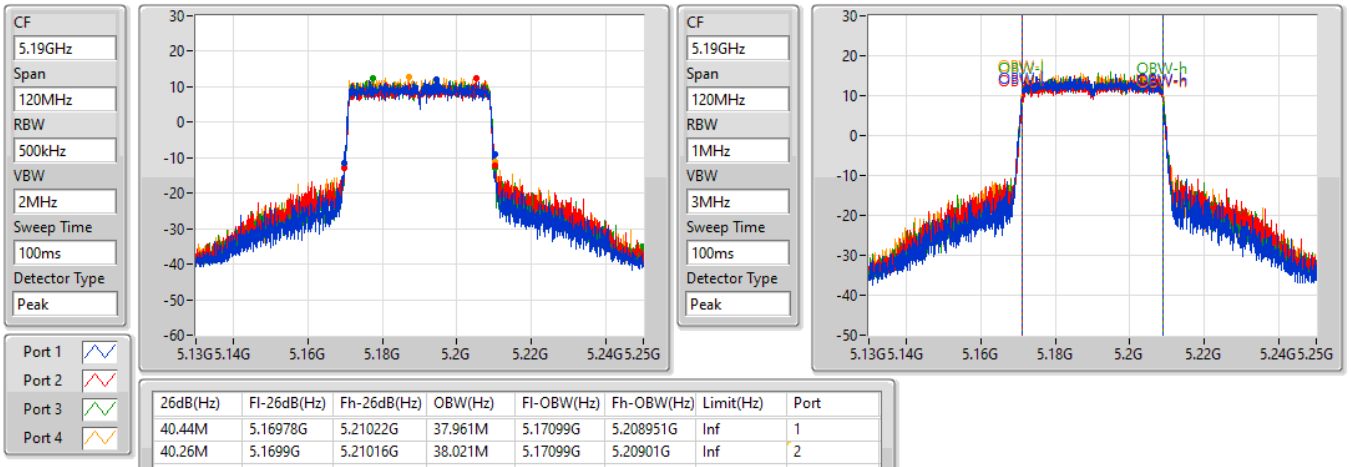


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.87M	5.81552G	5.83439G	19.76M	5.815045G	5.834805G	500k	1
18.33M	5.81558G	5.83391G	32.024M	5.808658G	5.840682G	500k	2
18.9M	5.81549G	5.83439G	27.256M	5.811627G	5.838883G	500k	3
18.84M	5.81561G	5.83445G	19.61M	5.815165G	5.834775G	500k	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5190MHz

25/03/2022

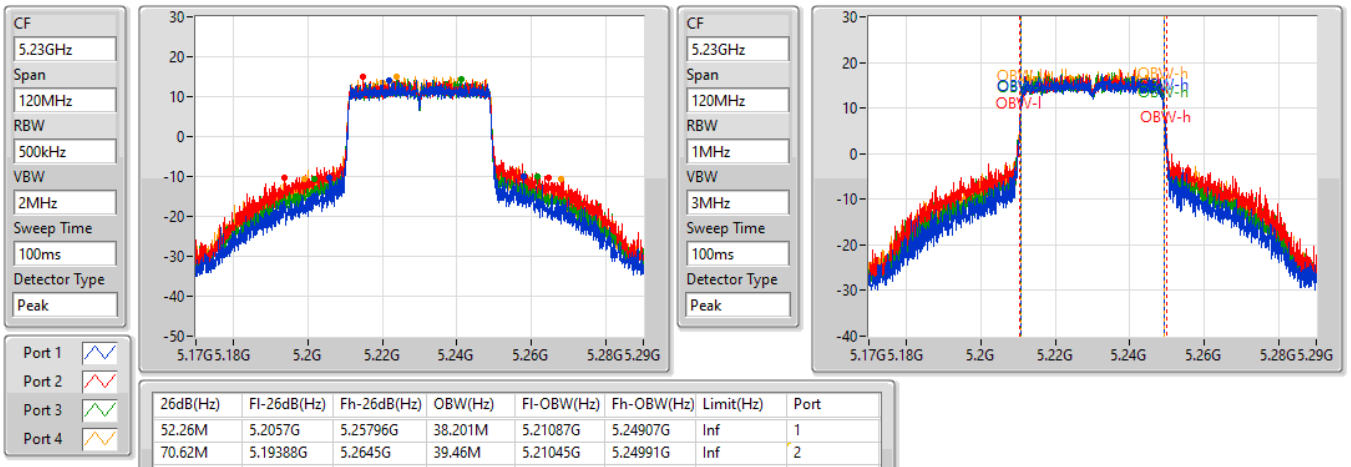


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.44M	5.16978G	5.21022G	37.961M	5.17099G	5.208951G	Inf	1
40.26M	5.1699G	5.21016G	38.021M	5.17099G	5.20901G	Inf	2
40.2M	5.1699G	5.2101G	38.021M	5.17099G	5.20901G	Inf	3
40.38M	5.16978G	5.21016G	38.021M	5.17099G	5.20901G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5230MHz

25/03/2022

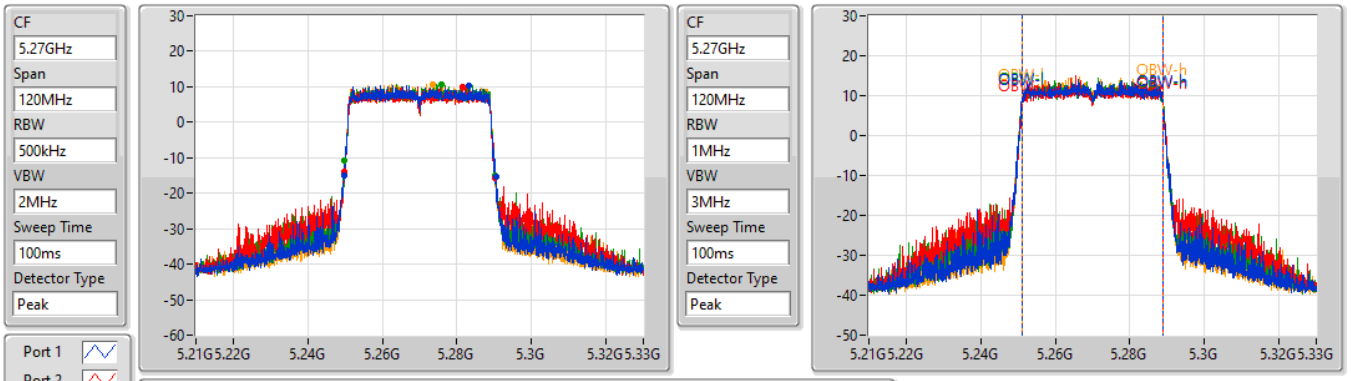


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
52.26M	5.2057G	5.25796G	38.201M	5.21087G	5.24907G	Inf	1
70.62M	5.19388G	5.2645G	39.46M	5.21045G	5.24991G	Inf	2
59.94M	5.2018G	5.26174G	38.441M	5.21075G	5.24919G	Inf	3
68.76M	5.1991G	5.26786G	38.501M	5.21075G	5.24925G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5270MHz

25/03/2022

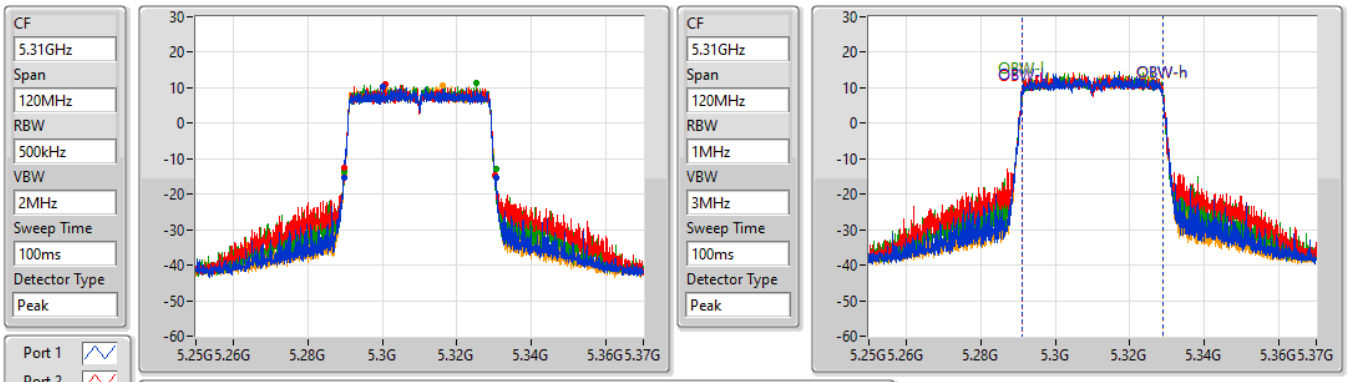


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.62M	5.24978G	5.2904G	37.901M	5.25099G	5.288891G	Inf	1
40.56M	5.24972G	5.29028G	37.961M	5.25099G	5.288951G	Inf	2
40.32M	5.24984G	5.29016G	37.961M	5.25099G	5.288951G	Inf	3
40.38M	5.24978G	5.29016G	37.841M	5.251049G	5.288891G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5310MHz

25/03/2022

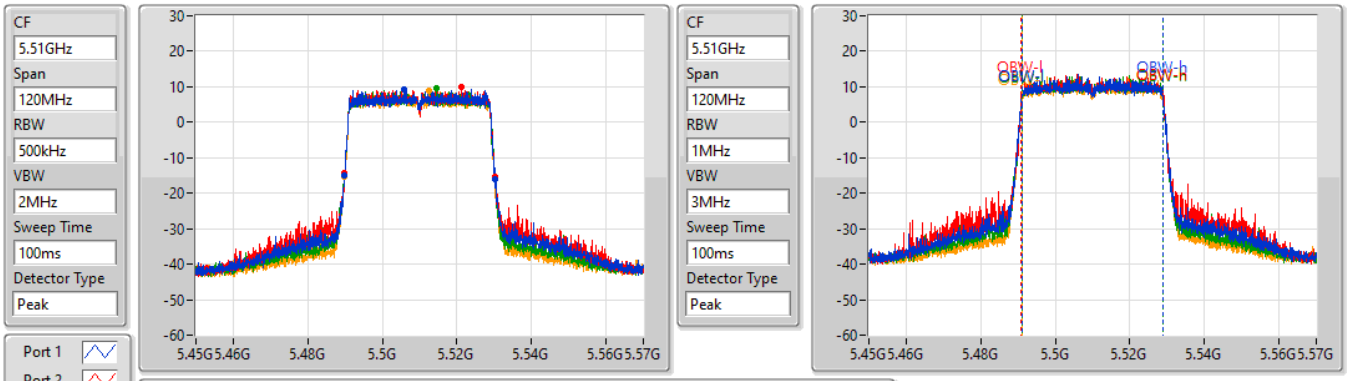


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.74M	5.28966G	5.3304G	37.901M	5.29099G	5.328891G	Inf	1
40.44M	5.28978G	5.33022G	37.961M	5.29099G	5.328951G	Inf	2
40.68M	5.28972G	5.3304G	37.961M	5.291049G	5.32901G	Inf	3
40.62M	5.28966G	5.33028G	37.901M	5.291049G	5.328951G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5510MHz

25/03/2022

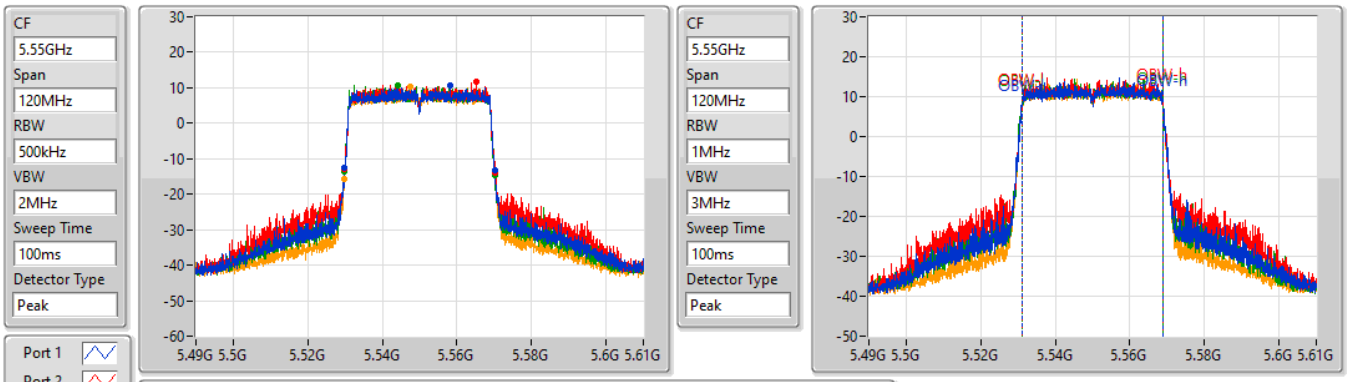


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.56M	5.48978G	5.53034G	37.961M	5.49099G	5.528951G	Inf	1
40.32M	5.48984G	5.53016G	38.021M	5.49093G	5.528951G	Inf	2
40.5M	5.48966G	5.53016G	37.901M	5.49099G	5.528891G	Inf	3
40.32M	5.48984G	5.53016G	37.961M	5.49099G	5.528951G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5550MHz

25/03/2022

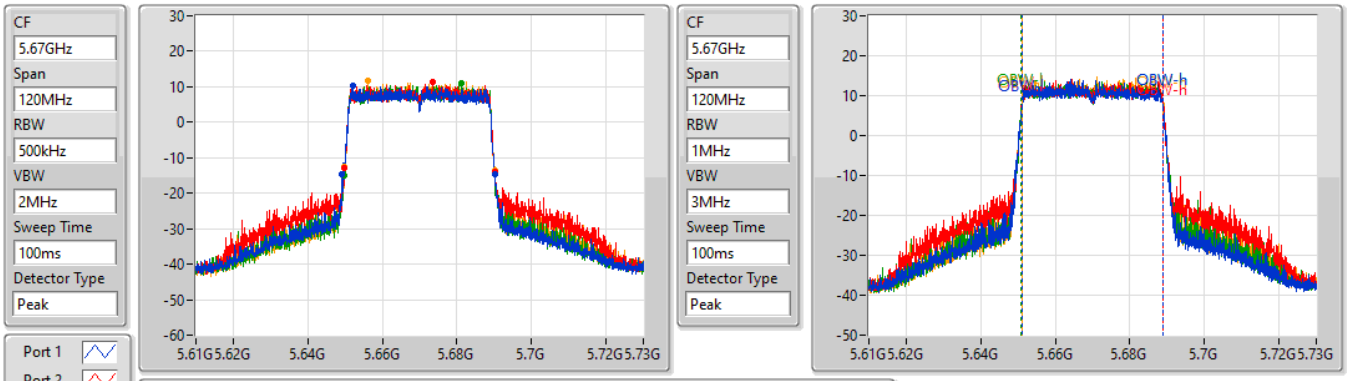


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.44M	5.52972G	5.57016G	37.961M	5.53099G	5.568951G	Inf	1
40.26M	5.5299G	5.57016G	37.901M	5.5310449G	5.568951G	Inf	2
40.5M	5.52966G	5.57016G	37.961M	5.53099G	5.568951G	Inf	3
40.44M	5.52978G	5.57022G	37.961M	5.53099G	5.568951G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5670MHz

25/03/2022

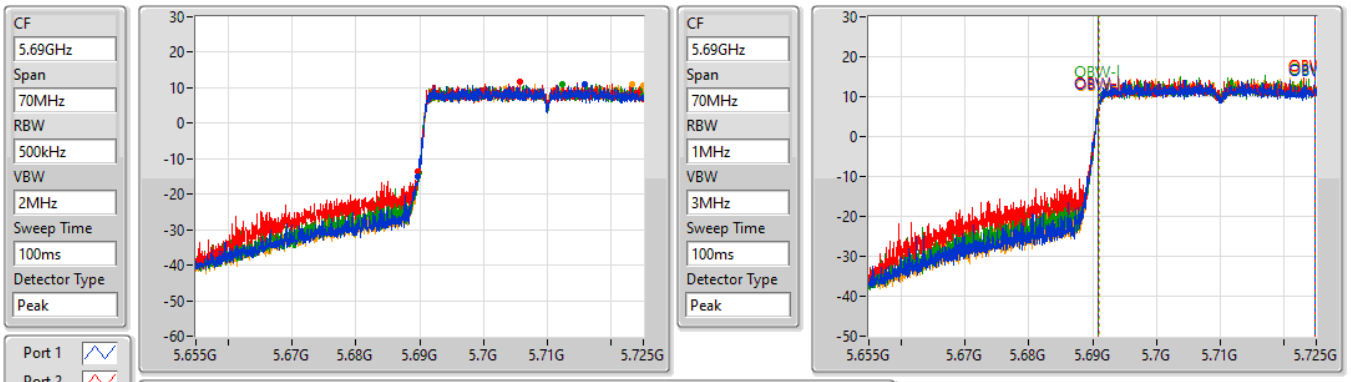


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.92M	5.64924G	5.69016G	37.901M	5.65099G	5.688891G	Inf	1
40.26M	5.6499G	5.69016G	38.021M	5.65099G	5.68901G	Inf	2
40.38M	5.64984G	5.69022G	37.961M	5.65093G	5.688891G	Inf	3
40.56M	5.64972G	5.69028G	37.901M	5.651049G	5.688951G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5710MHz Straddle 5.47-5.725GHz

25/03/2022

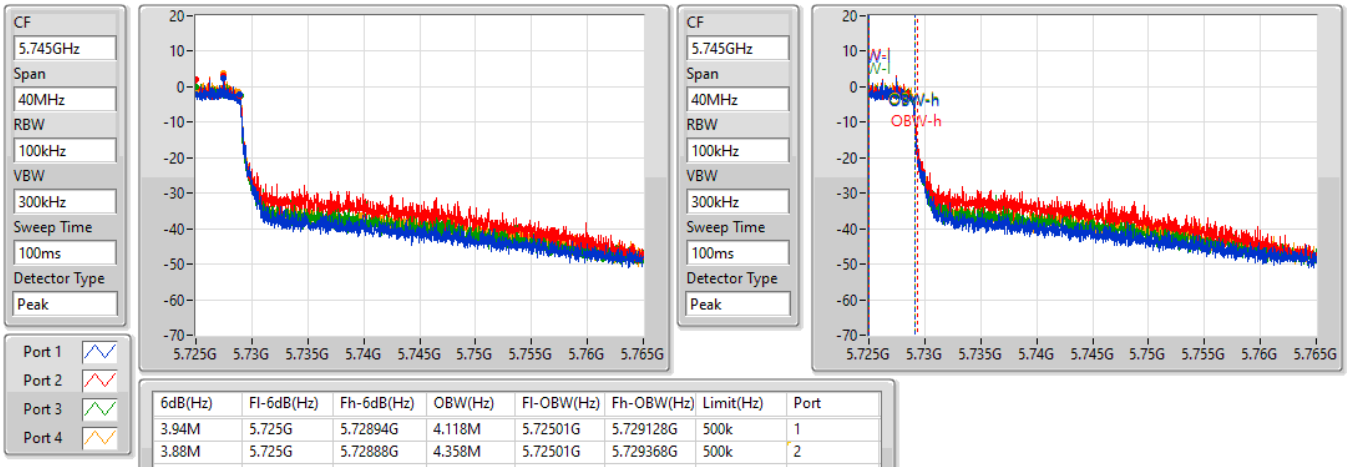


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.28M	5.68972G	5.725G	33.863M	5.690945G	5.724808G	Inf	1
35.245M	5.689755G	5.725G	33.933M	5.69091G	5.724843G	Inf	2
35.175M	5.689825G	5.725G	33.863M	5.690945G	5.724808G	Inf	3
35.14M	5.68986G	5.725G	33.863M	5.69098G	5.724843G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5710MHz Straddle 5.725-5.85GHz

25/03/2022

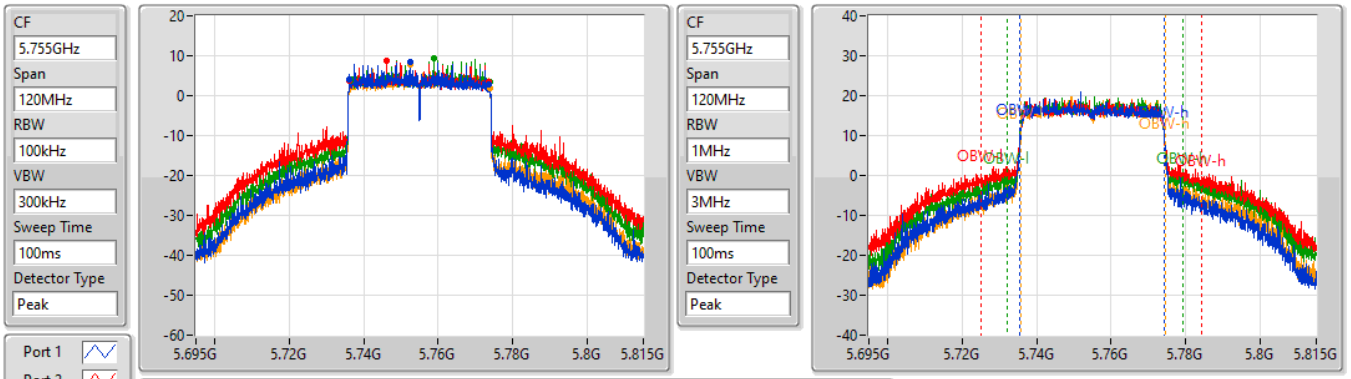


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.94M	5.725G	5.72894G	4.118M	5.72501G	5.729128G	500k	1
3.88M	5.725G	5.72888G	4.358M	5.72501G	5.729368G	500k	2
3.98M	5.725G	5.72898G	4.118M	5.72503G	5.729148G	500k	3
3.78M	5.725G	5.72878G	4.138M	5.72501G	5.729148G	500k	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5755MHz

25/03/2022

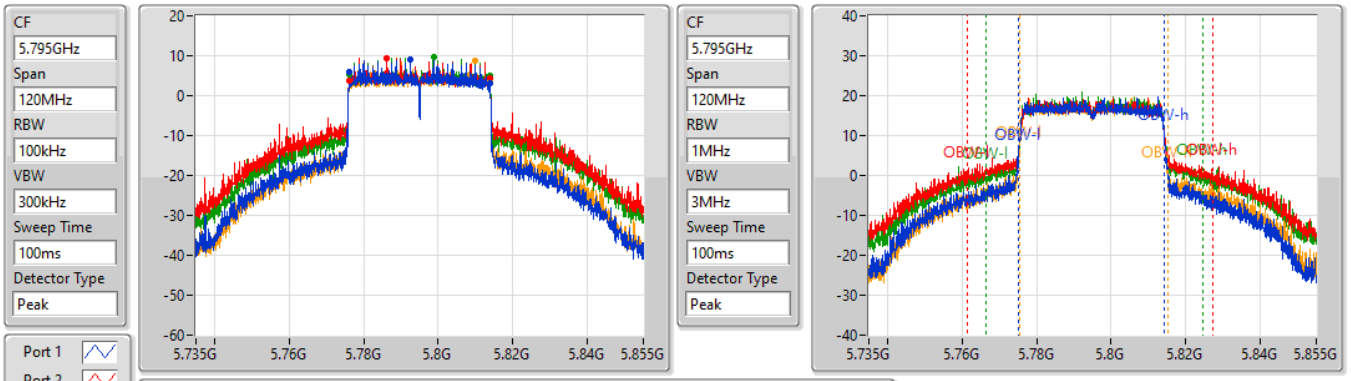


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.56M	5.7361G	5.77366G	38.621M	5.73557G	5.77419G	500k	1
37.44M	5.73604G	5.77348G	59.31M	5.725015G	5.784325G	500k	2
37.26M	5.73646G	5.77372G	47.196M	5.732091G	5.779288G	500k	3
37.68M	5.73616G	5.77384G	38.801M	5.73569G	5.77449G	500k	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5795MHz

25/03/2022

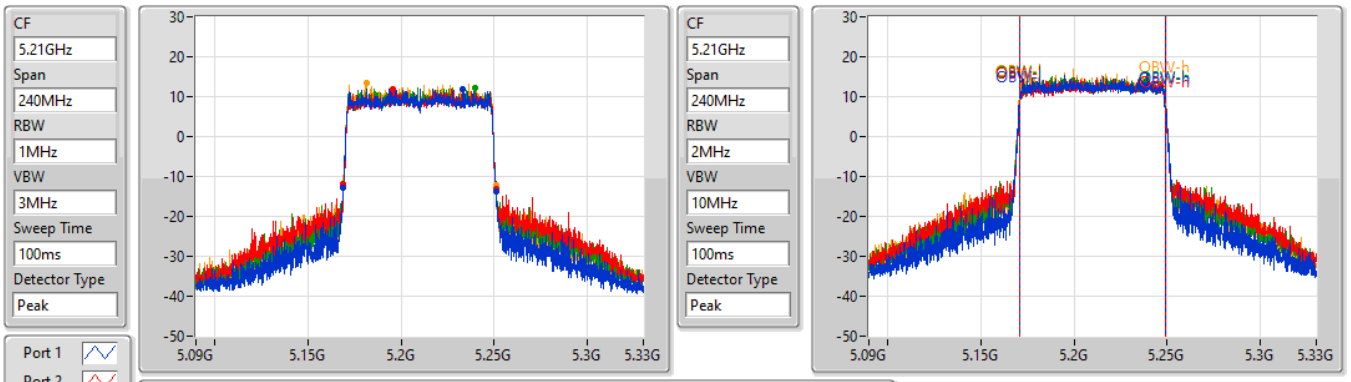


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.56M	5.77616G	5.81372G	39.1M	5.77521G	5.81431G	500k	1
37.74M	5.77604G	5.81378G	65.787M	5.761537G	5.827324G	500k	2
37.44M	5.77628G	5.81372G	57.991M	5.766454G	5.824445G	500k	3
37.62M	5.77616G	5.81378G	39.76M	5.77539G	5.81515G	500k	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5210MHz

25/03/2022

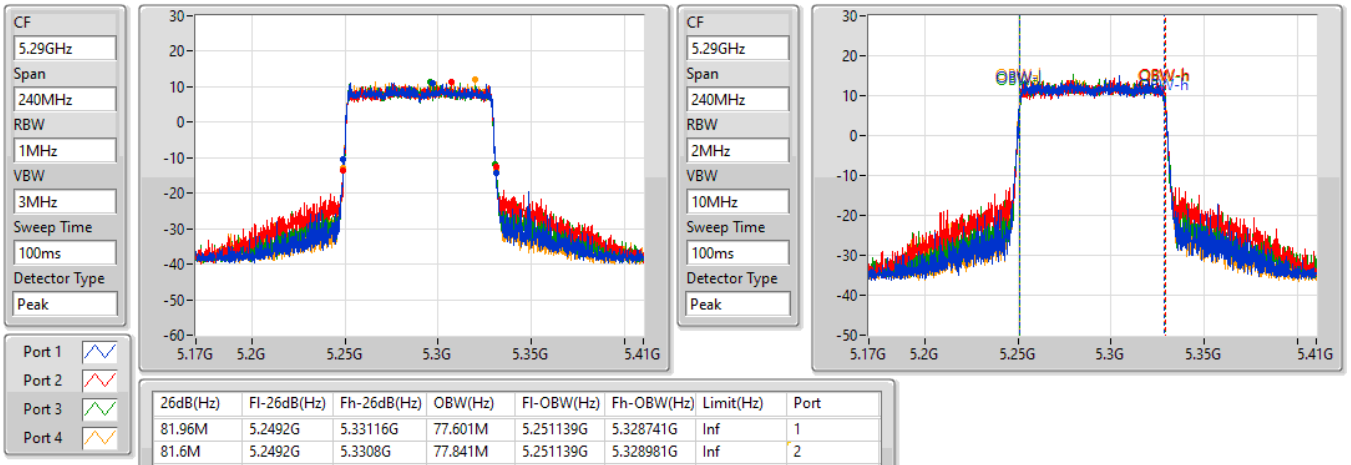


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.2M	5.16884G	5.25104G	77.721M	5.171139G	5.248861G	Inf	1
81.6M	5.1692G	5.2508G	77.841M	5.171139G	5.248981G	Inf	2
81.84M	5.1692G	5.25104G	77.721M	5.171139G	5.248861G	Inf	3
82.08M	5.16908G	5.25116G	77.961M	5.171019G	5.248981G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5290MHz

25/03/2022

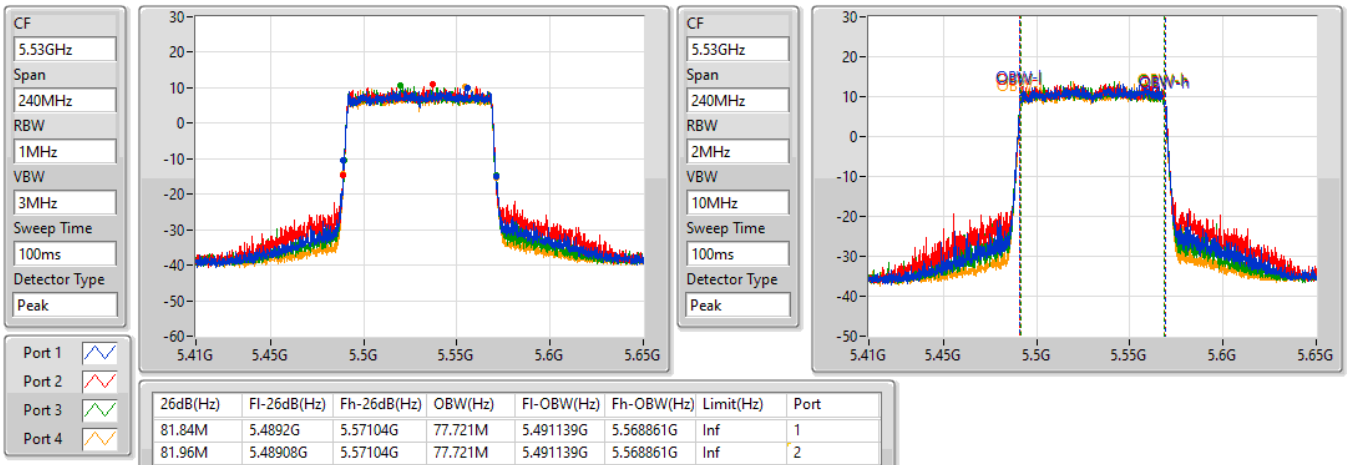


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.96M	5.2492G	5.33116G	77.601M	5.251139G	5.328741G	Inf	1
81.6M	5.2492G	5.3308G	77.841M	5.251139G	5.328981G	Inf	2
81.84M	5.24884G	5.33068G	77.721M	5.251139G	5.328861G	Inf	3
82.2M	5.24896G	5.33116G	77.721M	5.251019G	5.328741G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5530MHz

25/03/2022

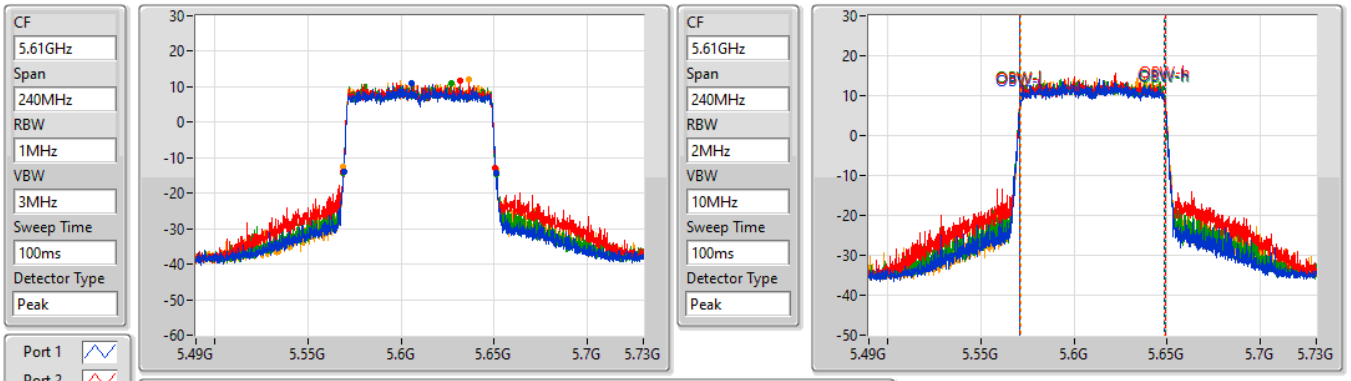


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.84M	5.4892G	5.57104G	77.721M	5.491139G	5.568861G	Inf	1
81.96M	5.48908G	5.57104G	77.721M	5.491139G	5.568861G	Inf	2
81.48M	5.48944G	5.57092G	77.481M	5.491259G	5.568741G	Inf	3
81.72M	5.4892G	5.57092G	77.481M	5.491259G	5.568741G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5610MHz

25/03/2022

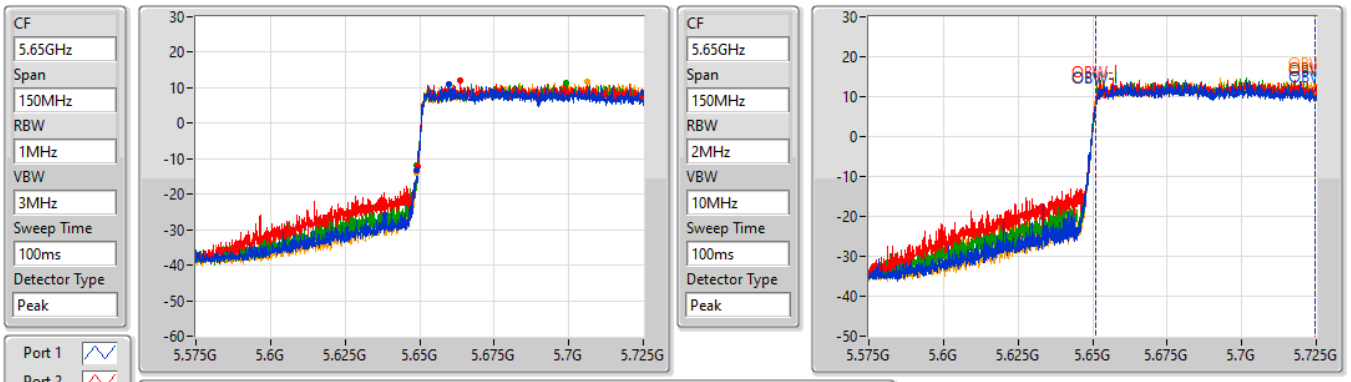


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.72M	5.56932G	5.65104G	77.601M	5.571139G	5.648741G	Inf	1
81.6M	5.56908G	5.65068G	77.721M	5.571139G	5.648861G	Inf	2
82.2M	5.56896G	5.65116G	77.721M	5.571139G	5.648861G	Inf	3
81.96M	5.56908G	5.65104G	77.481M	5.571259G	5.648741G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5690MHz Straddle 5.47-5.725GHz

25/03/2022

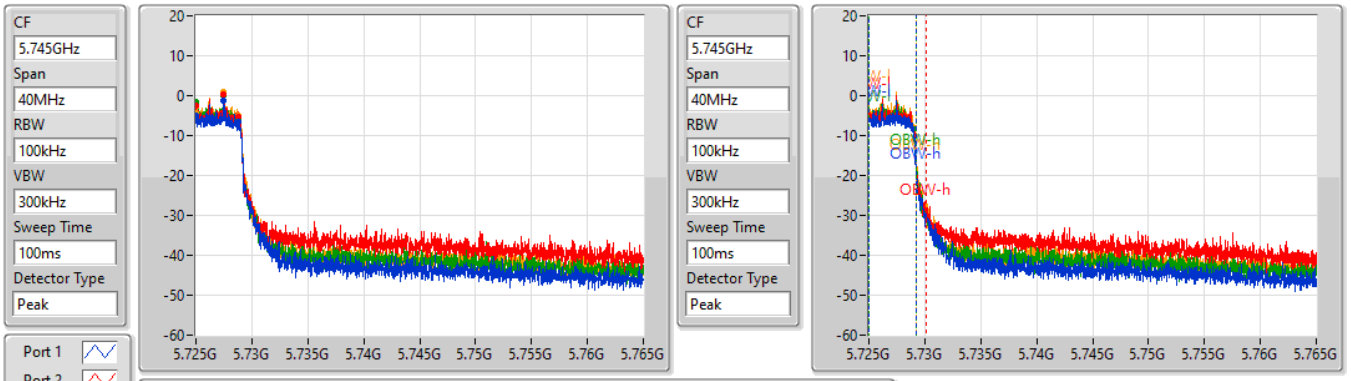


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.125M	5.648875G	5.725G	73.388M	5.651049G	5.724438G	Inf	1
75.675M	5.649325G	5.725G	73.538M	5.651049G	5.724588G	Inf	2
75.975M	5.649025G	5.725G	73.388M	5.651124G	5.724513G	Inf	3
75.975M	5.649025G	5.725G	73.538M	5.651124G	5.724663G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5690MHz Straddle 5.725-5.85GHz

25/03/2022

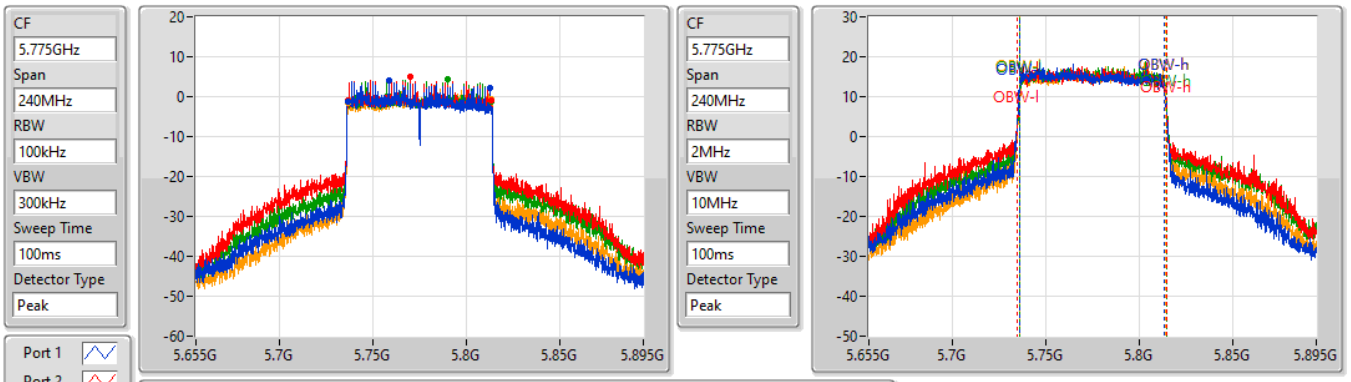


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.82M	5.725G	5.72882G	4.178M	5.72503G	5.729208G	500k	1
3.8M	5.725G	5.7288G	5.137M	5.72503G	5.730167G	500k	2
3.74M	5.725G	5.72874G	4.198M	5.72503G	5.729228G	500k	3
3.78M	5.725G	5.72878G	4.198M	5.72501G	5.729208G	500k	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5775MHz

25/03/2022



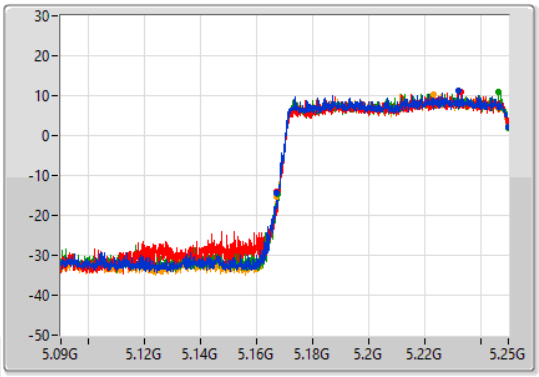
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.32M	5.73624G	5.81256G	77.961M	5.73578G	5.813741G	500k	1
77.52M	5.73624G	5.81376G	80.36M	5.73446G	5.81482G	500k	2
76.8M	5.73648G	5.81328G	78.801M	5.73578G	5.81458G	500k	3
76.92M	5.73684G	5.81376G	77.961M	5.736139G	5.8141G	500k	4

802.11ax HEW160-BF_Nss1,(MCS0)_4TX EBW

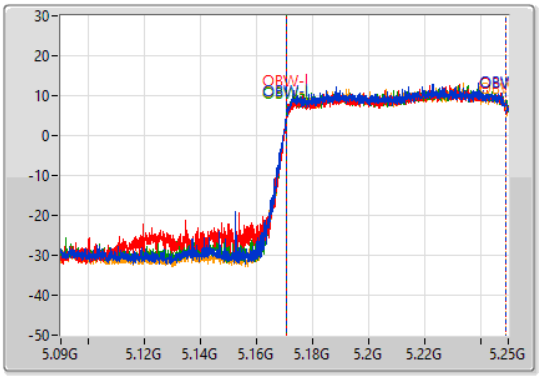
5250MHz Straddle 5.15-5.25GHz

25/03/2022

CF 5.17GHz
Span 160MHz
RBW 2MHz
VBW 10MHz
Sweep Time 100ms
Detector Type Peak



CF 5.17GHz
Span 160MHz
RBW 3MHz
VBW 10MHz
Sweep Time 100ms
Detector Type Peak



Port 1
Port 2
Port 3
Port 4

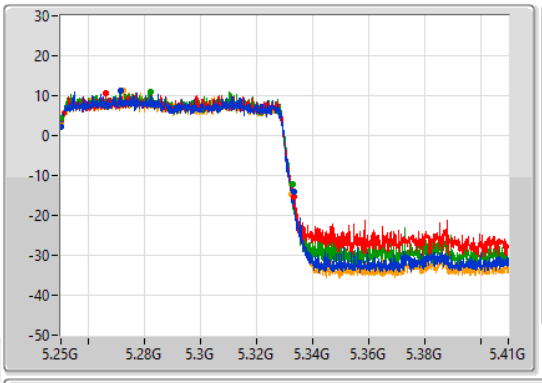
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.8M	5.1672G	5.25G	78.441M	5.1708G	5.24924G	Inf	1
82.88M	5.16712G	5.25G	78.441M	5.17088G	5.24932G	Inf	2
82.48M	5.16752G	5.25G	78.441M	5.17088G	5.24932G	Inf	3
82.8M	5.1672G	5.25G	78.281M	5.17088G	5.24916G	Inf	4

802.11ax HEW160-BF_Nss1,(MCS0)_4TX EBW

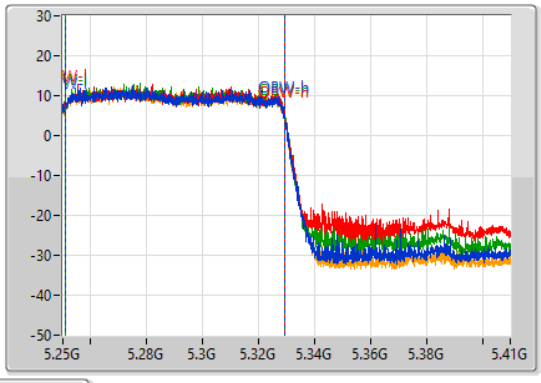
5250MHz Straddle 5.25-5.35GHz

25/03/2022

CF 5.33GHz
Span 160MHz
RBW 2MHz
VBW 10MHz
Sweep Time 100ms
Detector Type Peak



CF 5.33GHz
Span 160MHz
RBW 3MHz
VBW 10MHz
Sweep Time 100ms
Detector Type Peak



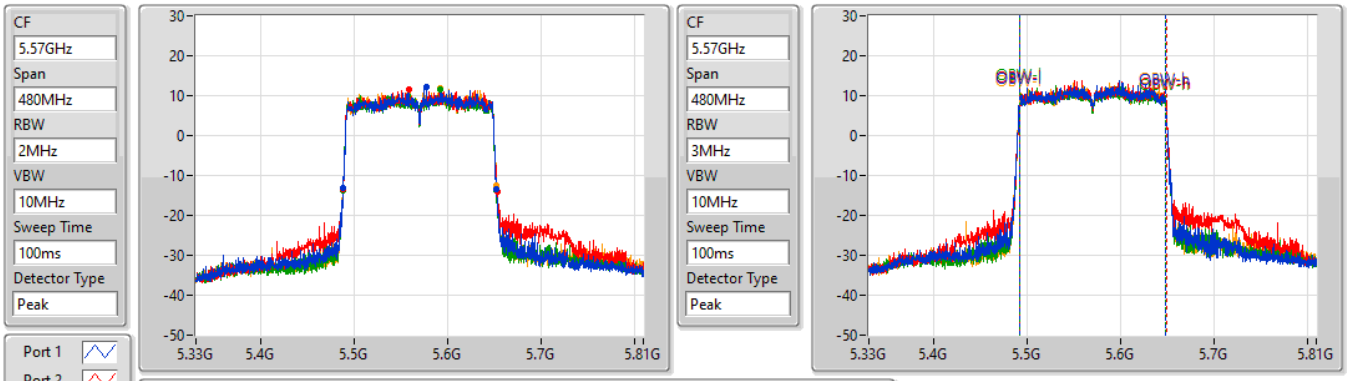
Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.12M	5.25G	5.33312G	78.441M	5.25076G	5.3292G	Inf	1
83.28M	5.25G	5.33328G	78.521M	5.25076G	5.32928G	Inf	2
82.72M	5.25G	5.33272G	78.361M	5.25084G	5.3292G	Inf	3
82.32M	5.25G	5.33232G	78.361M	5.25076G	5.32912G	Inf	4

802.11ax HEW160-BF_Nss1,(MCS0)_4TX EBW

5570MHz

25/03/2022



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
164.88M	5.48768G	5.65256G	156.402M	5.491799G	5.648201G	Inf	1
165.36M	5.48792G	5.65328G	157.121M	5.491799G	5.648921G	Inf	2
164.64M	5.48768G	5.65232G	156.642M	5.491799G	5.648441G	Inf	3
164.64M	5.48816G	5.6528G	156.642M	5.491799G	5.648441G	Inf	4

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.31	0.85310
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.79	0.95280
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	27.96	0.62517
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	24.97	0.31405
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	19.63	0.09183
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.92	0.24660
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.95	0.24831
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.92	0.24660
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.86	0.24322
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	19.93	0.09840
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.91	0.24604
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.92	0.24660
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.94	0.24774
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.77	0.23823
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	23.43	0.22029
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.88	0.97275
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.68	0.92897
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.65	0.92257
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	27.48	0.55976

Result

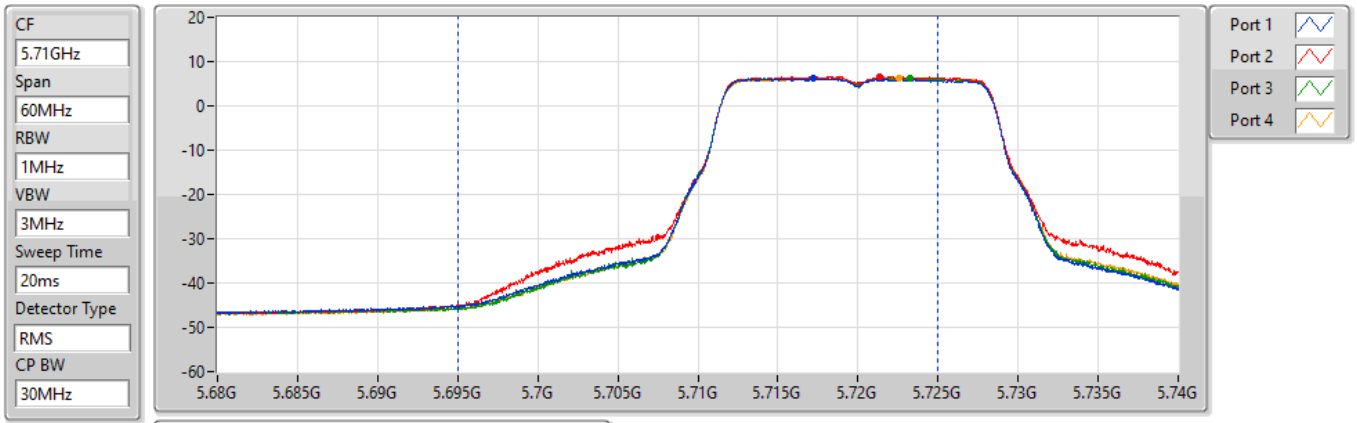
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.56	20.25	19.49	19.70	20.57	26.04	30.00
5200MHz	Pass	3.56	23.09	23.02	22.77	24.13	29.31	30.00
5240MHz	Pass	3.56	21.80	22.15	21.71	23.01	28.22	30.00
5260MHz	Pass	3.95	17.90	17.88	17.63	17.87	23.84	23.98
5300MHz	Pass	3.95	17.71	18.07	17.73	17.33	23.74	23.98
5320MHz	Pass	3.95	17.77	18.20	17.63	17.97	23.92	23.98
5500MHz	Pass	4.61	17.89	18.19	17.37	17.50	23.77	23.98
5580MHz	Pass	4.61	18.05	18.30	17.84	17.31	23.91	23.98
5700MHz	Pass	4.61	17.73	18.05	17.85	17.89	23.90	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	4.61	16.70	17.11	16.88	16.85	22.91	22.95
5720MHz Straddle 5.725-5.85GHz	Pass	4.20	10.35	10.84	10.62	10.89	16.70	30.00
5745MHz	Pass	4.20	23.81	23.68	23.86	23.62	29.76	30.00
5785MHz	Pass	4.20	23.76	23.84	23.93	23.59	29.80	30.00
5825MHz	Pass	4.20	23.81	23.90	24.07	23.66	29.88	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.70	21.12	20.57	20.75	21.48	27.01	30.00
5200MHz	Pass	5.70	23.54	24.07	23.33	24.07	29.79	30.00
5240MHz	Pass	5.70	21.91	22.19	22.00	23.18	28.37	30.00
5260MHz	Pass	5.96	18.04	17.71	17.68	17.93	23.86	23.98
5300MHz	Pass	5.96	17.67	18.18	17.76	18.07	23.95	23.98
5320MHz	Pass	5.96	17.52	18.08	17.62	17.86	23.80	23.98
5500MHz	Pass	5.34	18.00	18.21	17.81	17.56	23.92	23.98
5580MHz	Pass	5.34	18.16	18.11	17.76	17.49	23.91	23.98
5700MHz	Pass	5.34	15.47	15.69	15.54	15.70	21.62	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	5.34	16.73	16.96	16.88	16.73	22.85	22.97
5720MHz Straddle 5.725-5.85GHz	Pass	6.17	11.63	11.74	11.77	11.90	17.78	29.83
5745MHz	Pass	6.17	23.76	23.51	23.73	23.62	29.68	29.83
5785MHz	Pass	6.17	23.79	23.54	23.75	23.42	29.65	29.83
5825MHz	Pass	6.17	23.53	23.56	23.84	23.34	29.59	29.83
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.70	19.14	18.77	19.28	19.76	25.27	30.00
5230MHz	Pass	5.70	21.61	21.78	21.80	22.51	27.96	30.00
5270MHz	Pass	5.96	17.96	17.45	17.86	18.00	23.84	23.98
5310MHz	Pass	5.96	17.71	17.90	18.01	17.96	23.92	23.98
5510MHz	Pass	5.34	16.54	16.81	16.41	16.10	22.49	23.98
5550MHz	Pass	5.34	17.89	18.12	17.92	17.48	23.88	23.98
5670MHz	Pass	5.34	17.58	18.03	17.83	18.23	23.94	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	5.34	17.66	17.96	17.88	18.03	23.91	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	6.17	7.82	8.37	8.39	8.92	14.41	29.83
5755MHz	Pass	6.17	23.46	23.63	23.95	23.39	29.63	29.83
5795MHz	Pass	6.17	23.43	23.71	23.92	23.42	29.65	29.83
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.70	18.69	18.70	18.86	19.48	24.97	30.00
5290MHz	Pass	5.96	17.92	17.75	17.59	18.09	23.86	23.98
5530MHz	Pass	5.34	17.01	17.18	16.95	16.47	22.93	23.98
5610MHz	Pass	5.34	17.28	17.88	17.71	17.99	23.74	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	5.34	17.28	17.81	17.89	17.97	23.77	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	6.17	3.73	4.86	4.97	5.63	10.87	29.83
5775MHz	Pass	6.17	21.34	21.59	21.65	21.26	27.48	29.83
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.70	13.89	13.40	13.56	13.59	19.63	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	5.96	13.89	13.96	14.15	13.64	19.93	23.98
5570MHz	Pass	5.34	17.50	17.51	17.06	17.54	23.43	23.98

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

802.11a_Nss1,(6Mbps)_4TX AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

25/03/2022



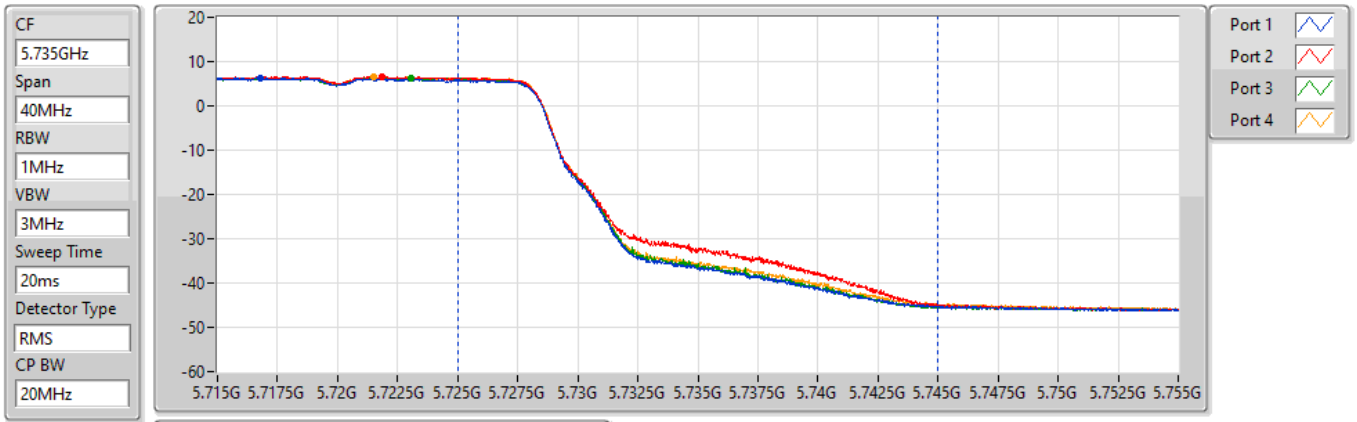
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.91	16.70	17.11	16.88	16.85

802.11a_Nss1,(6Mbps)_4TX AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

25/03/2022



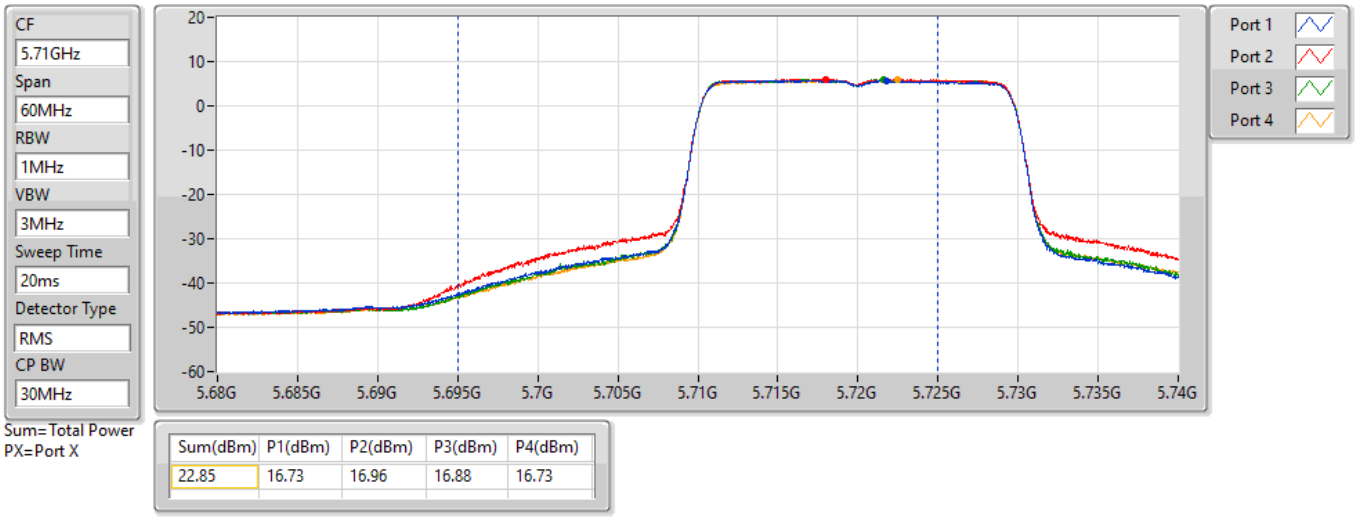
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
16.70	10.35	10.84	10.62	10.89

802.11ax HEW20-BF_Nss1,(MCS0)_4TX AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

25/03/2022

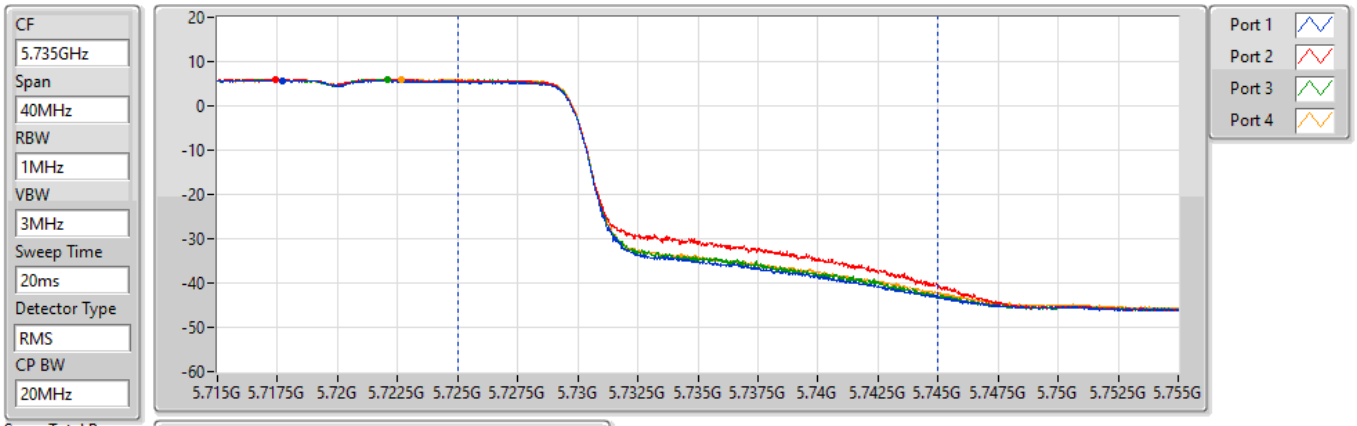


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.85	16.73	16.96	16.88	16.73

802.11ax HEW20-BF_Nss1,(MCS0)_4TX AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

25/03/2022

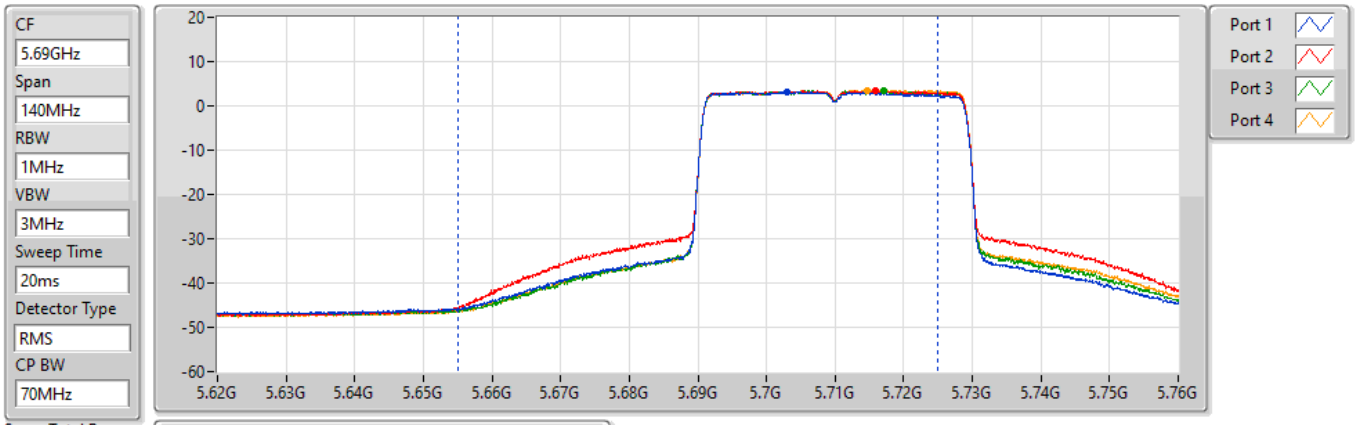


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
17.73	11.43	11.74	11.77	11.90

802.11ax HEW40-BF_Nss1,(MCS0)_4TX AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

25/03/2022

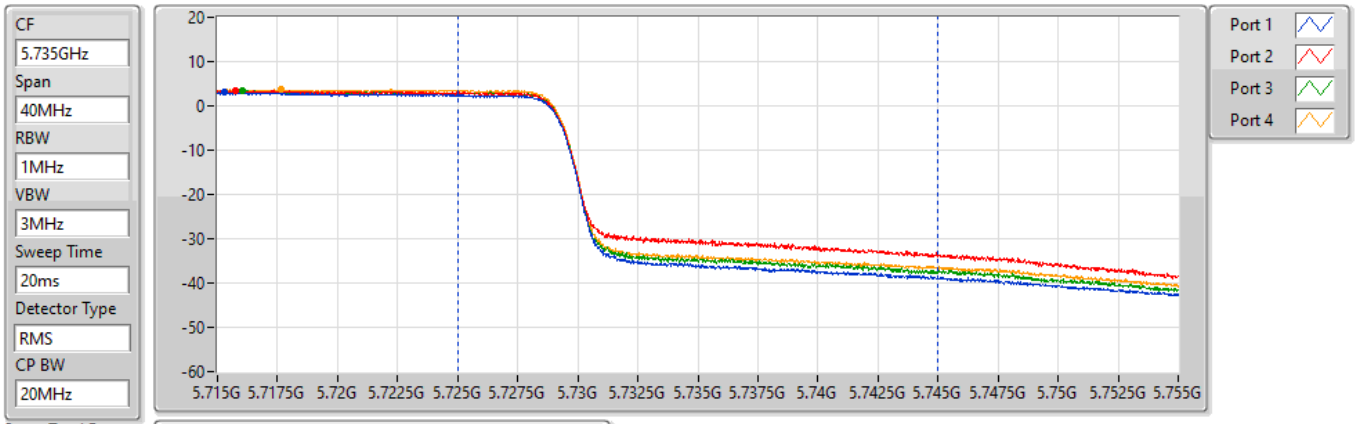


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.91	17.66	17.96	17.88	18.03

802.11ax HEW40-BF_Nss1,(MCS0)_4TX AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

25/03/2022

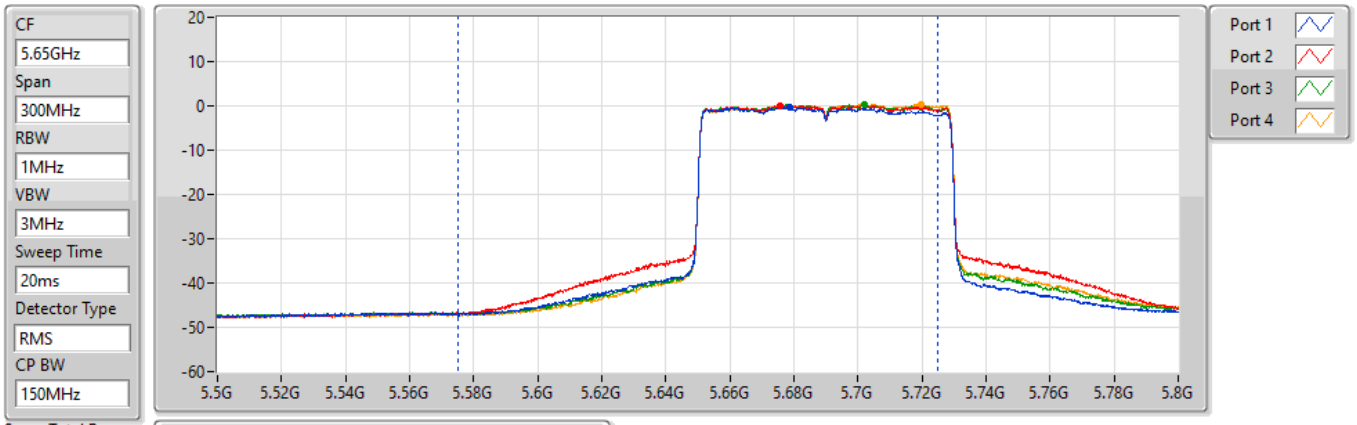


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
14.41	7.82	8.37	8.39	8.92

802.11ax HEW80-BF_Nss1,(MCS0)_4TX AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

25/03/2022

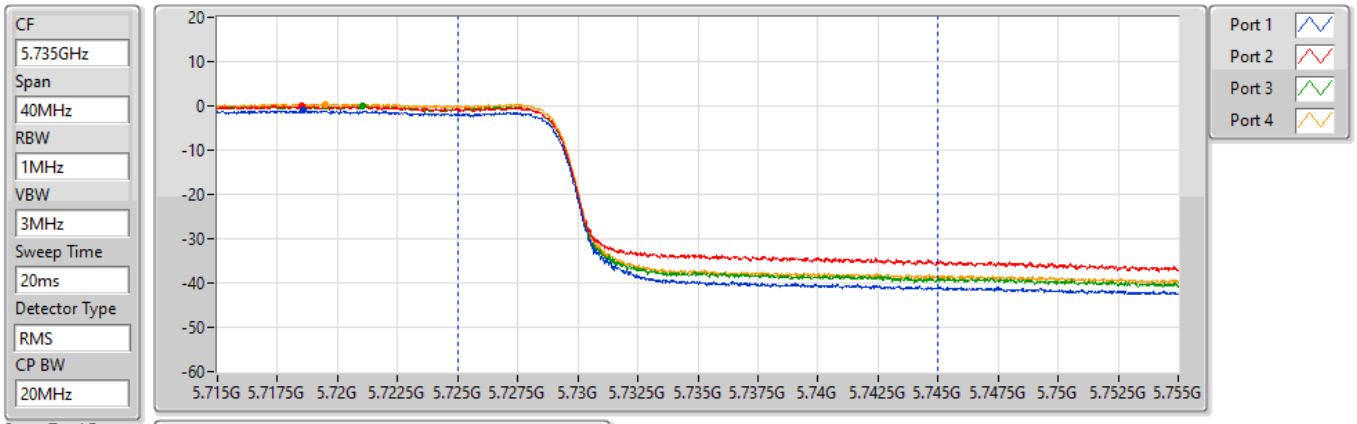


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.77	17.28	17.81	17.89	17.97

802.11ax HEW80-BF_Nss1,(MCS0)_4TX AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

25/03/2022

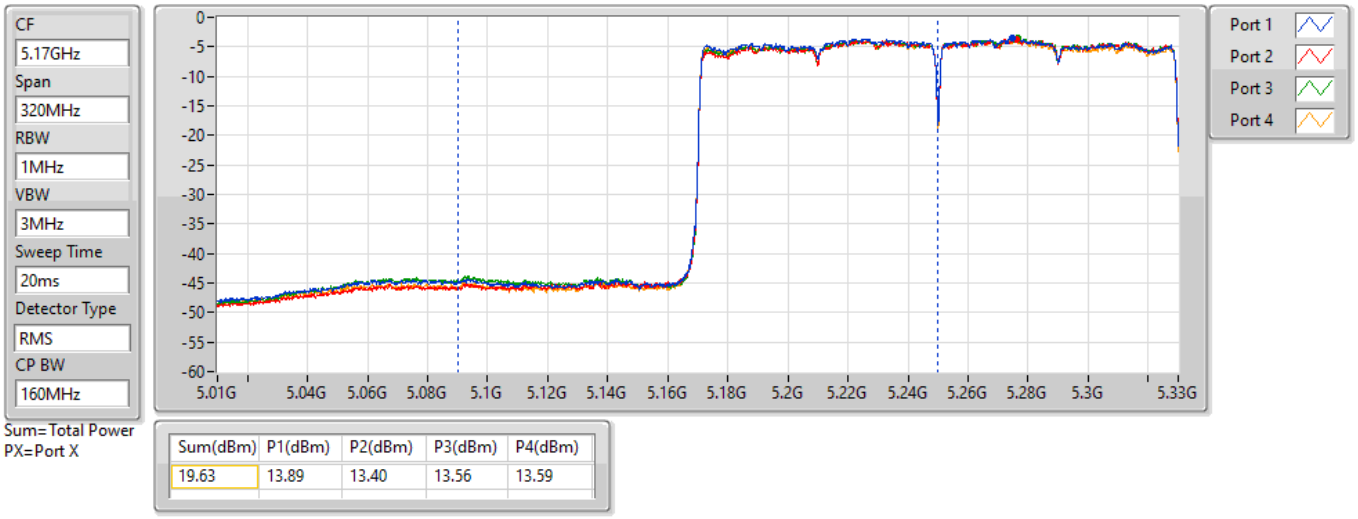


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
10.87	3.73	4.86	4.97	5.63

802.11ax HEW160-BF_Nss1,(MCS0)_4TX AV Power

5250MHz Straddle 5.15-5.25GHz_TnomVnom

25/03/2022

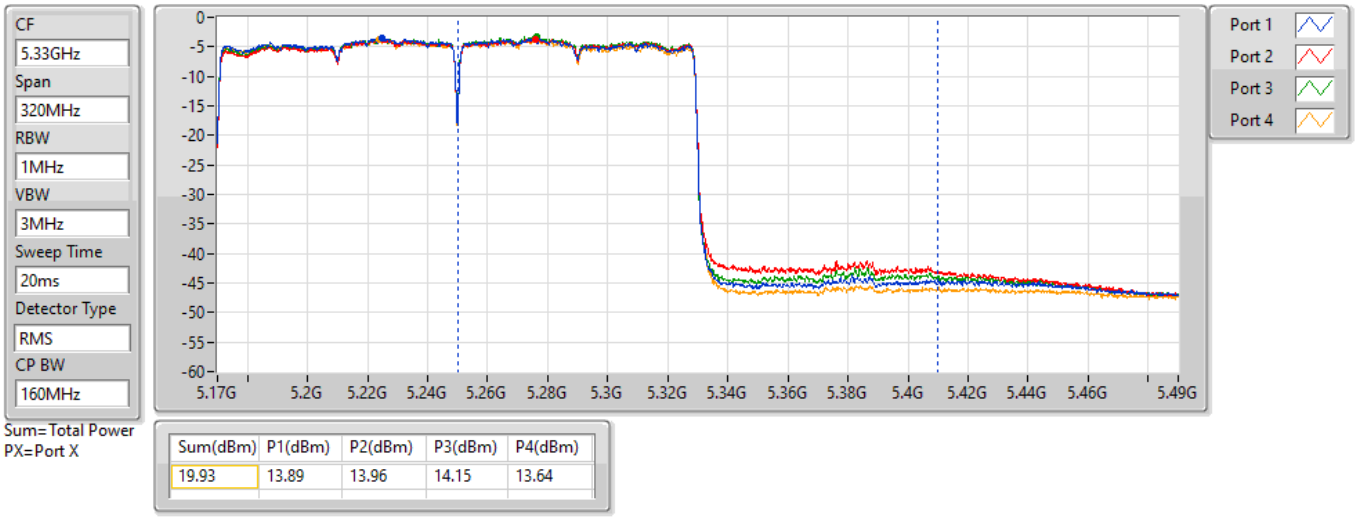


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
19.63	13.89	13.40	13.56	13.59

802.11ax HEW160-BF_Nss1,(MCS0)_4TX AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom

25/03/2022



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
19.93	13.89	13.96	14.15	13.64

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_4TX	16.60
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	15.78
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	11.40
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	5.56
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	0.64
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	10.93
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	10.36
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.36
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.61
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	0.88
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	10.96
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	10.32
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.75
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.53
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.62
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	15.25
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	14.53
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	11.60
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	6.65

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

Result

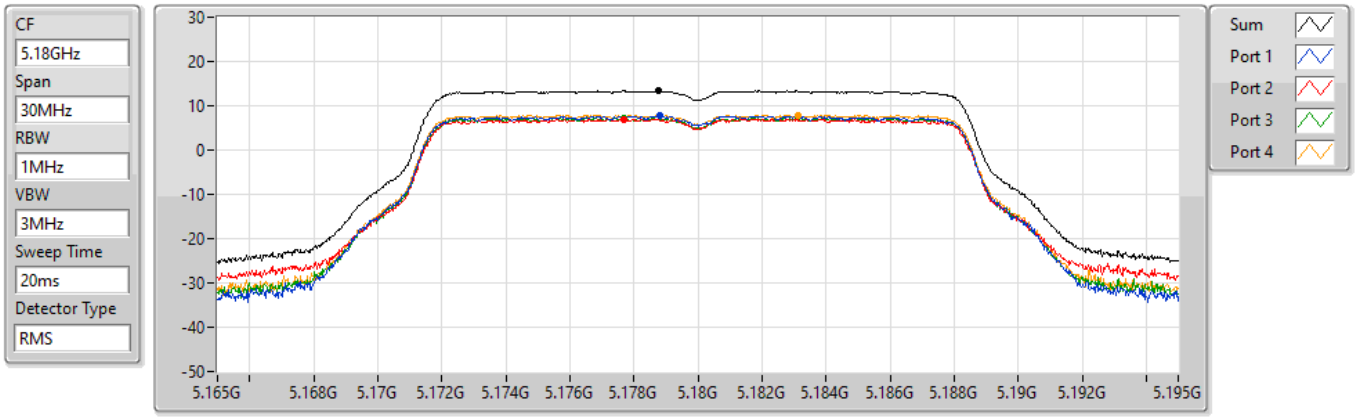
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.70	7.71	7.02	7.21	7.93	13.34	17.00
5200MHz	Pass	5.70	10.55	10.57	10.11	11.50	16.60	17.00
5240MHz	Pass	5.70	9.01	9.26	8.92	10.15	15.18	17.00
5260MHz	Pass	5.96	5.24	5.14	4.80	5.12	10.92	11.00
5300MHz	Pass	5.96	4.95	5.26	4.86	5.18	10.88	11.00
5320MHz	Pass	5.96	4.92	5.40	4.74	5.15	10.93	11.00
5500MHz	Pass	5.34	5.06	5.31	4.92	4.66	10.93	11.00
5580MHz	Pass	5.34	5.17	5.37	5.11	4.74	10.96	11.00
5700MHz	Pass	5.34	4.81	5.06	4.94	4.95	10.77	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.34	4.66	5.20	4.89	4.96	10.77	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.17	2.89	3.40	3.17	3.48	9.22	29.83
5745MHz	Pass	6.17	9.28	9.15	9.39	9.14	15.05	29.83
5785MHz	Pass	6.17	9.25	9.28	9.36	9.12	15.11	29.83
5825MHz	Pass	6.17	9.33	9.56	9.59	9.25	15.25	29.83
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.70	7.66	7.07	7.39	8.29	13.50	17.00
5200MHz	Pass	5.70	9.50	10.18	9.95	9.89	15.78	17.00
5240MHz	Pass	5.70	8.59	8.65	8.58	9.71	14.78	17.00
5260MHz	Pass	5.96	4.47	4.13	4.20	4.47	10.21	11.00
5300MHz	Pass	5.96	4.33	4.70	4.28	4.58	10.36	11.00
5320MHz	Pass	5.96	4.19	4.61	4.10	4.43	10.20	11.00
5500MHz	Pass	5.34	4.46	4.77	4.38	4.03	10.29	11.00
5580MHz	Pass	5.34	4.55	4.57	4.22	4.02	10.24	11.00
5700MHz	Pass	5.34	1.93	2.03	2.01	2.24	7.96	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.34	4.31	4.51	4.50	4.39	10.32	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.17	2.48	2.87	2.90	3.00	8.69	29.83
5745MHz	Pass	6.17	8.77	8.77	8.48	8.68	14.53	29.83
5785MHz	Pass	6.17	8.68	8.76	8.28	8.30	14.36	29.83
5825MHz	Pass	6.17	8.52	8.72	8.09	8.32	14.32	29.83
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.70	2.85	2.51	3.05	3.45	8.81	17.00
5230MHz	Pass	5.70	5.11	5.46	5.40	6.09	11.40	17.00
5270MHz	Pass	5.96	1.61	0.99	1.55	1.64	7.33	11.00
5310MHz	Pass	5.96	1.27	1.50	1.59	1.58	7.36	11.00
5510MHz	Pass	5.34	0.27	0.49	0.18	-0.24	6.11	11.00
5550MHz	Pass	5.34	1.45	1.81	1.58	1.06	7.33	11.00
5670MHz	Pass	5.34	1.13	1.46	1.42	1.76	7.40	11.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.34	1.67	1.95	1.92	2.11	7.75	11.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.17	-0.41	-0.01	0.07	0.71	6.04	29.83
5755MHz	Pass	6.17	5.63	5.93	5.45	5.73	11.54	29.83
5795MHz	Pass	6.17	5.81	6.06	5.51	5.61	11.60	29.83
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.70	-0.65	-0.49	-0.32	0.21	5.56	17.00
5290MHz	Pass	5.96	-1.29	-1.43	-1.31	-1.02	4.61	11.00
5530MHz	Pass	5.34	-2.21	-1.93	-2.33	-2.76	3.58	11.00
5610MHz	Pass	5.34	-1.83	-1.28	-1.49	-1.12	4.38	11.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.34	-1.78	-1.16	-1.25	-1.00	4.53	11.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.17	-4.42	-2.97	-2.99	-2.35	2.80	29.83
5775MHz	Pass	6.17	0.94	0.81	1.06	0.78	6.65	29.83
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.70	-5.03	-5.17	-5.26	-5.21	0.64	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	5.96	-4.84	-4.90	-4.82	-5.24	0.88	11.00
5570MHz	Pass	5.34	-4.15	-4.13	-4.71	-4.16	1.62	11.00

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

802.11a_Nss1,(6Mbps)_4TX PSD

5180MHz

25/03/2022

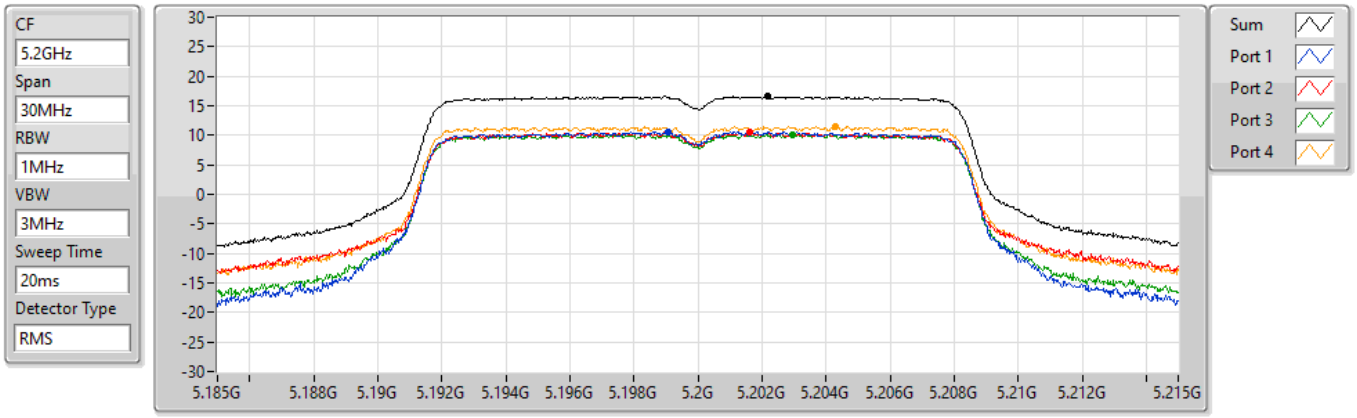


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.34	13.34	7.71	7.02	7.21	7.93

802.11a_Nss1,(6Mbps)_4TX PSD

5200MHz

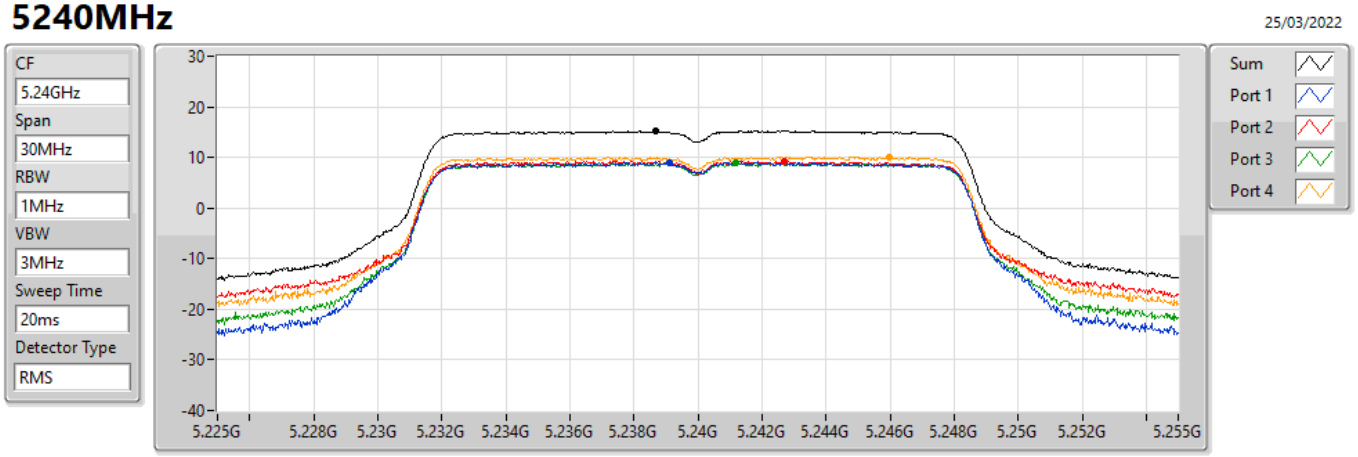
25/03/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.60	16.60	10.55	10.57	10.11	11.50

802.11a_Nss1,(6Mbps)_4TX PSD

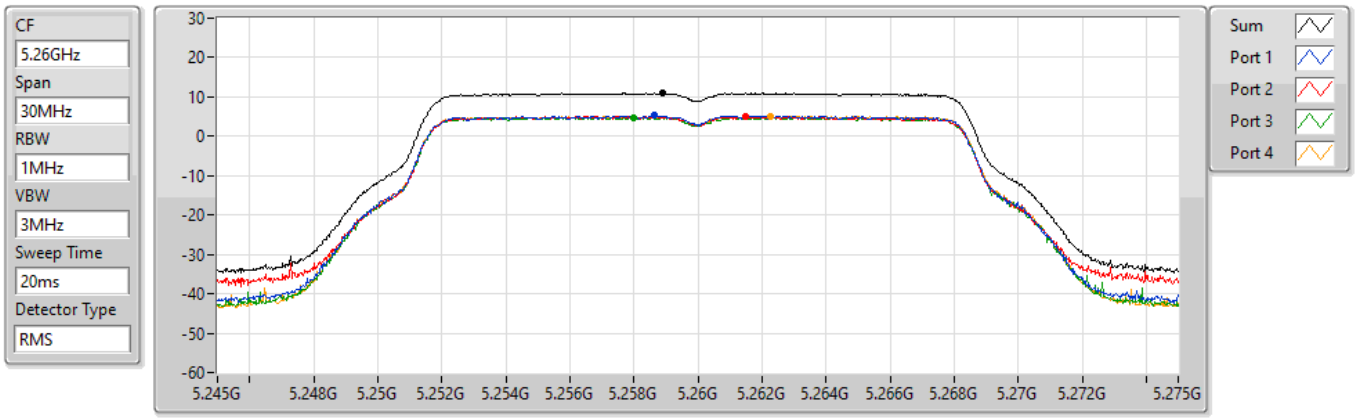
5240MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.18	15.18	9.01	9.26	8.92	10.15

802.11a_Nss1,(6Mbps)_4TX PSD

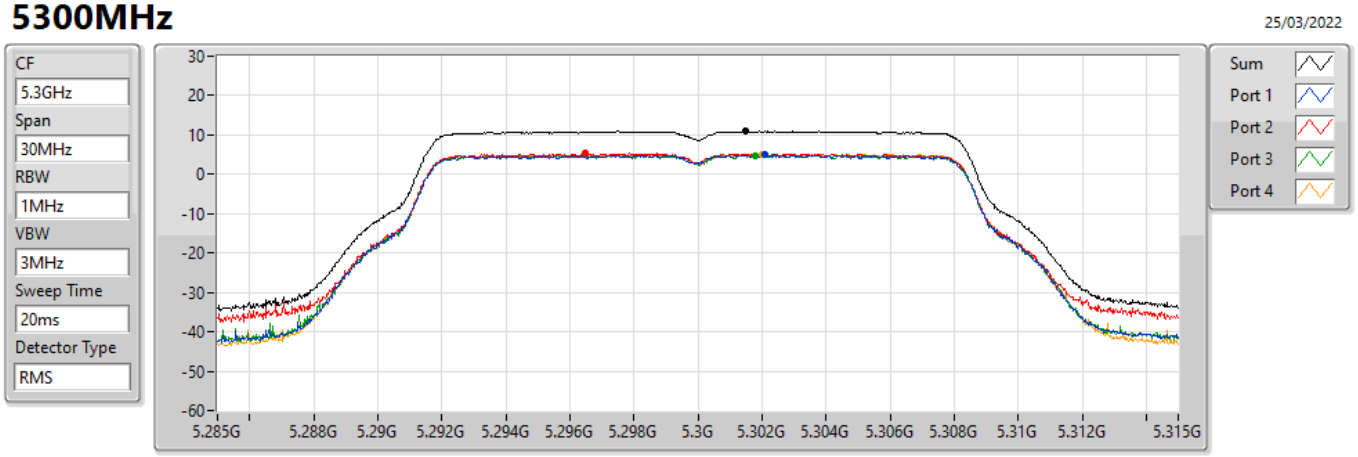
5260MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.92	10.92	5.24	5.14	4.80	5.12

802.11a_Nss1,(6Mbps)_4TX PSD

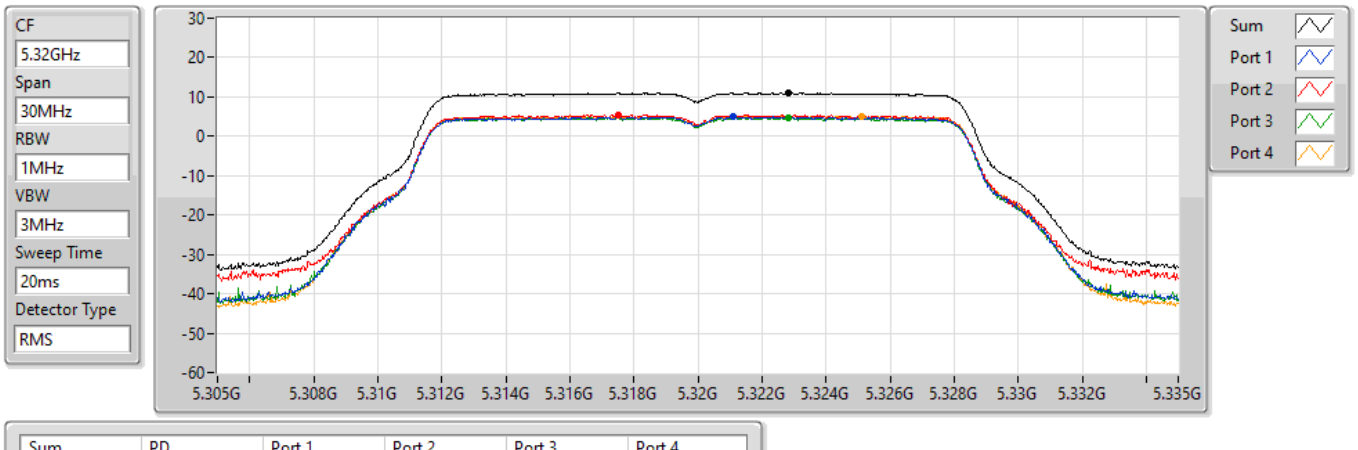
5300MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.88	10.88	4.95	5.26	4.86	5.18

802.11a_Nss1,(6Mbps)_4TX PSD

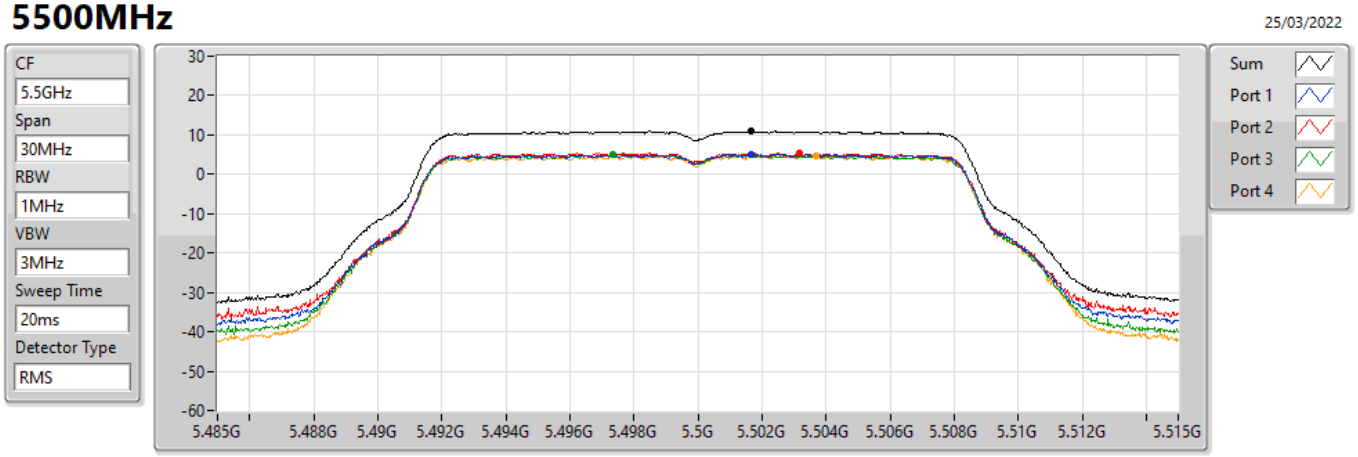
5320MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.93	10.93	4.92	5.40	4.74	5.15

802.11a_Nss1,(6Mbps)_4TX PSD

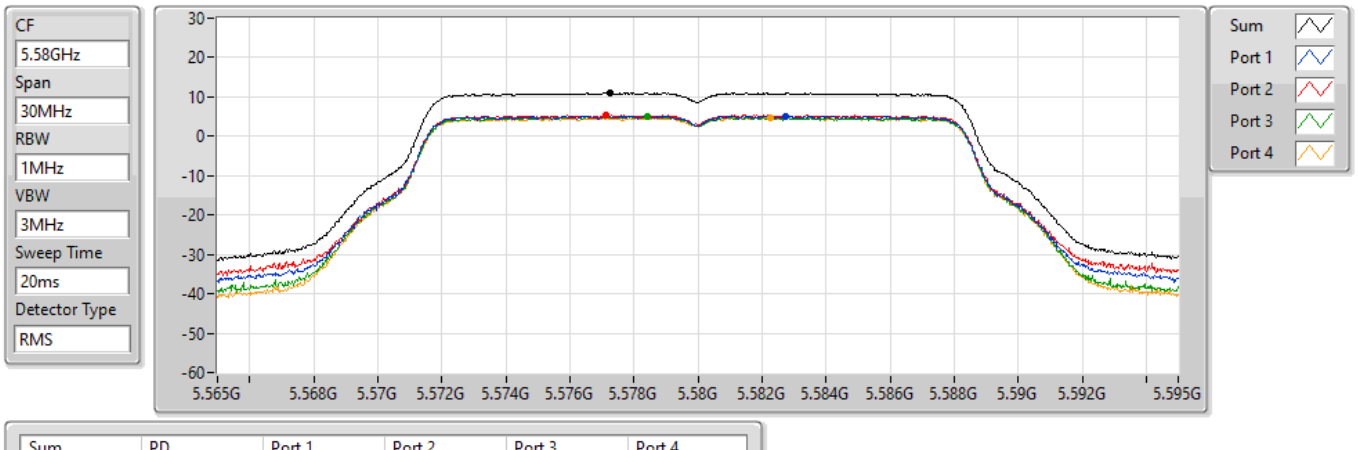
5500MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.93	10.93	5.06	5.31	4.92	4.66

802.11a_Nss1,(6Mbps)_4TX PSD

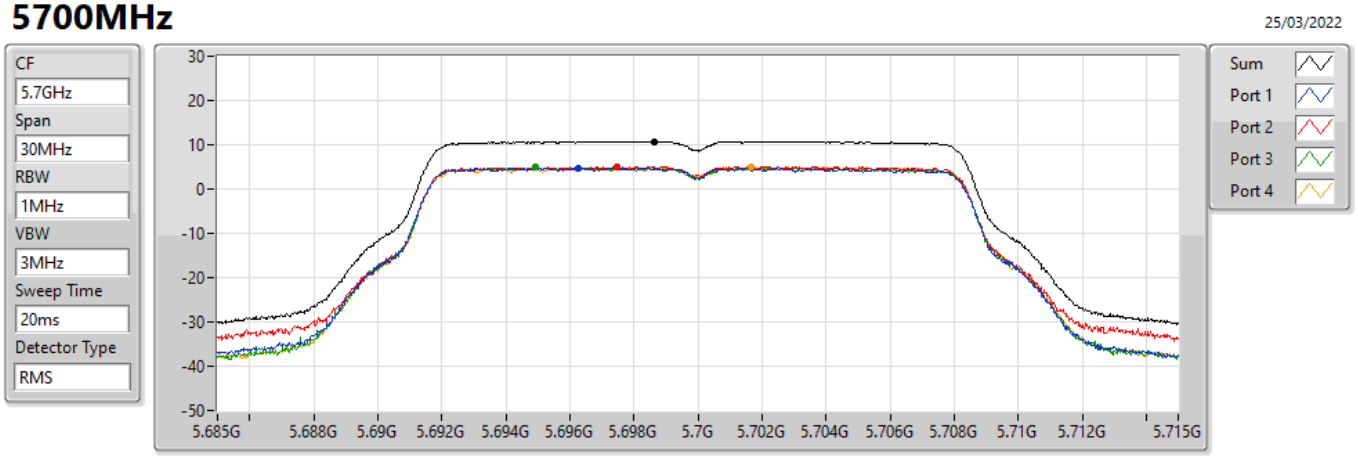
5580MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.96	10.96	5.17	5.37	5.11	4.74

802.11a_Nss1,(6Mbps)_4TX PSD

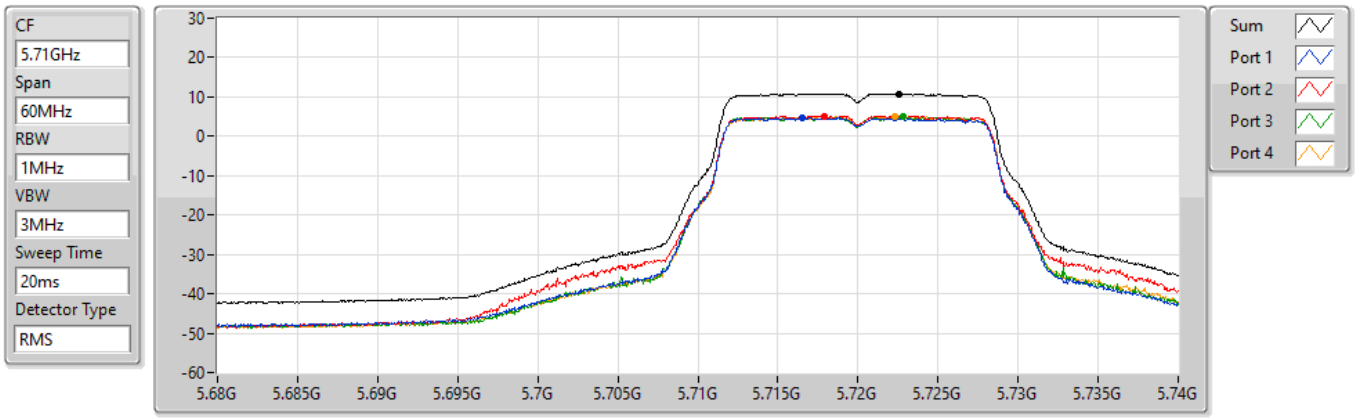
5700MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.77	10.77	4.81	5.06	4.94	4.95

802.11a_Nss1,(6Mbps)_4TX PSD

5720MHz Straddle 5.47-5.725GHz

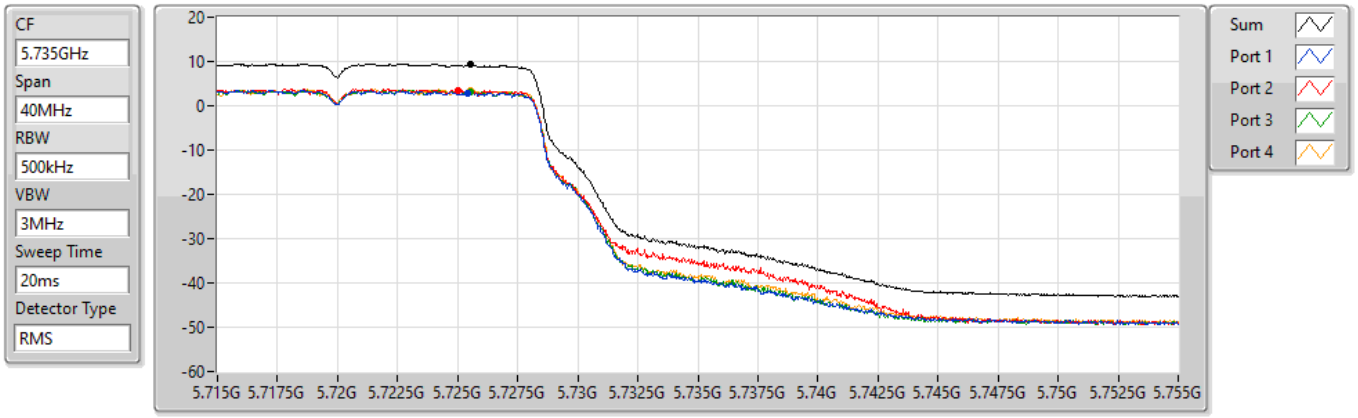


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.77	10.77	4.66	5.20	4.89	4.96

802.11a_Nss1,(6Mbps)_4TX PSD

5720MHz Straddle 5.725-5.85GHz

25/03/2022

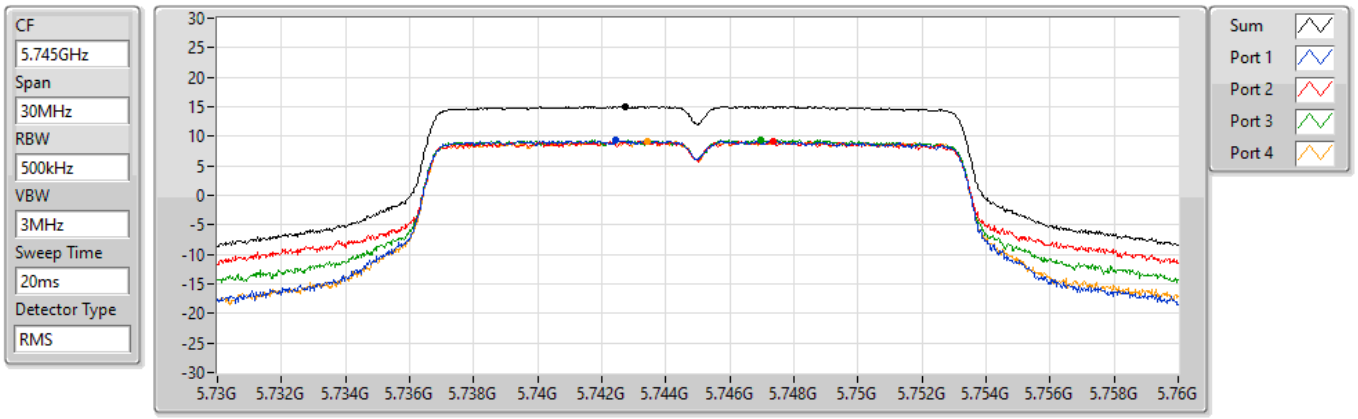


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.22	9.22	2.89	3.40	3.17	3.48

802.11a_Nss1,(6Mbps)_4TX PSD

5745MHz

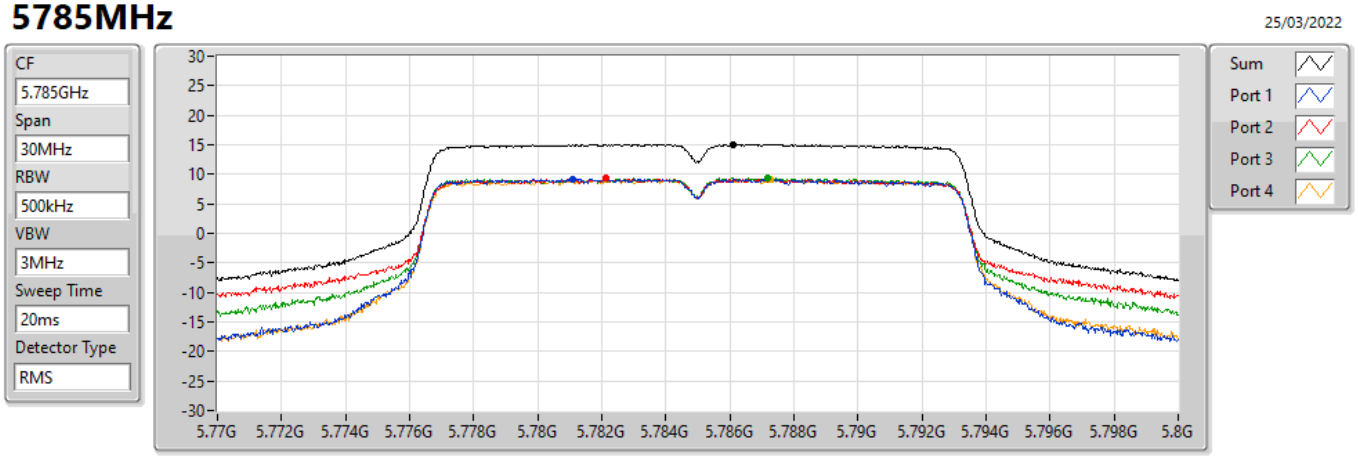
25/03/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.05	15.05	9.28	9.15	9.39	9.14

802.11a_Nss1,(6Mbps)_4TX PSD

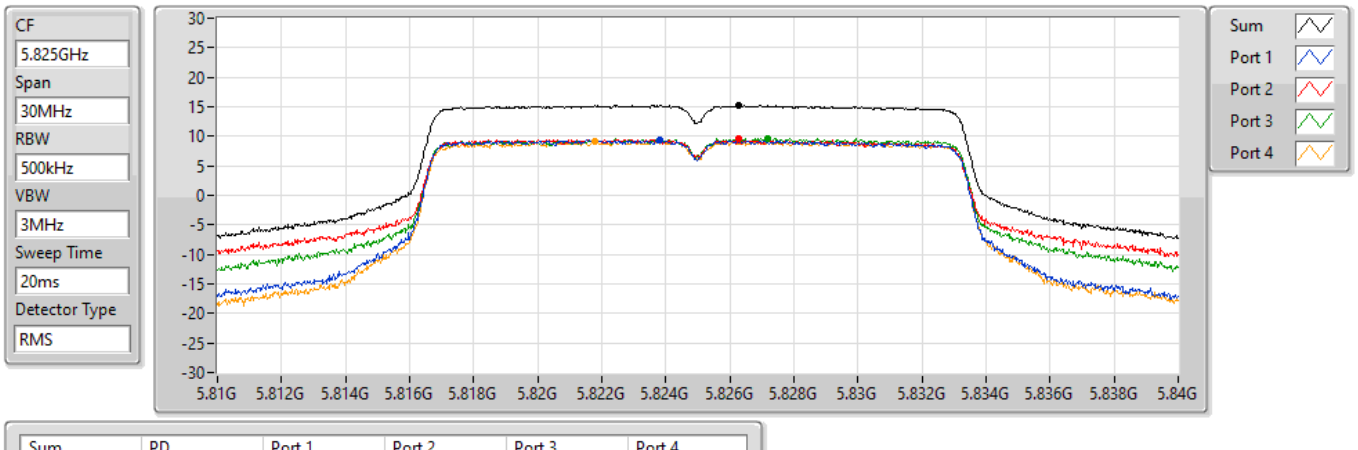
5785MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.11	15.11	9.25	9.28	9.36	9.12

802.11a_Nss1,(6Mbps)_4TX PSD

5825MHz

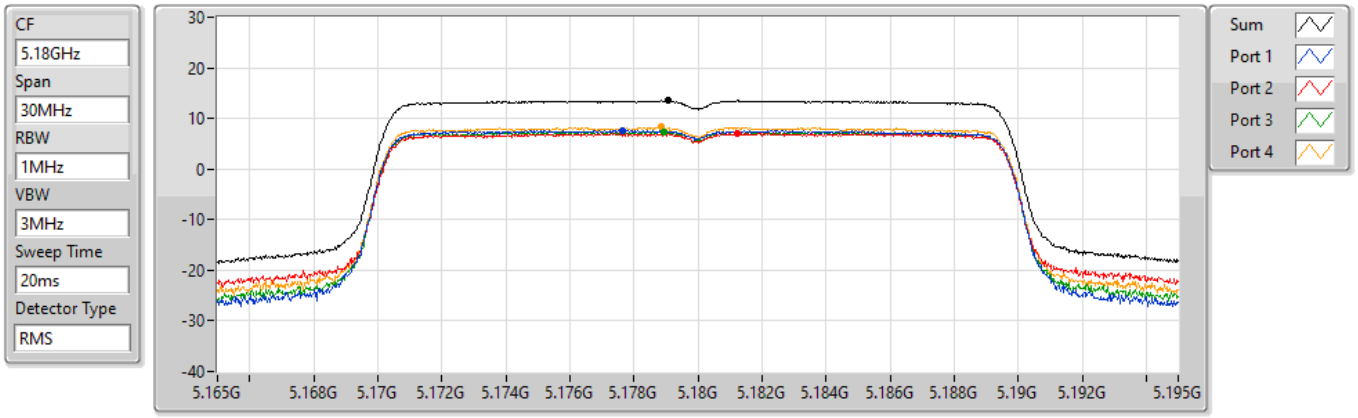


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.25	15.25	9.33	9.56	9.59	9.25

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5180MHz

25/03/2022

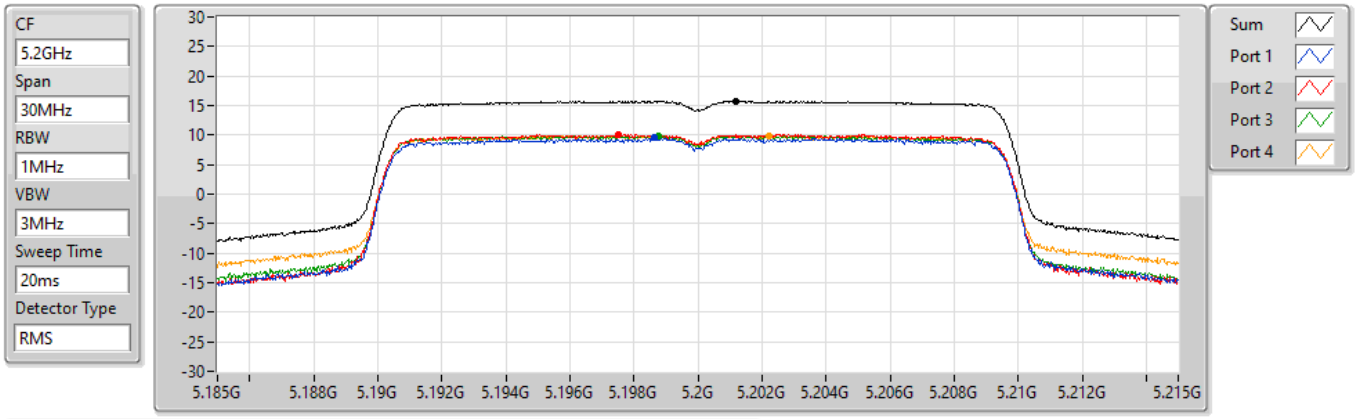


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.50	13.50	7.66	7.07	7.39	8.29

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5200MHz

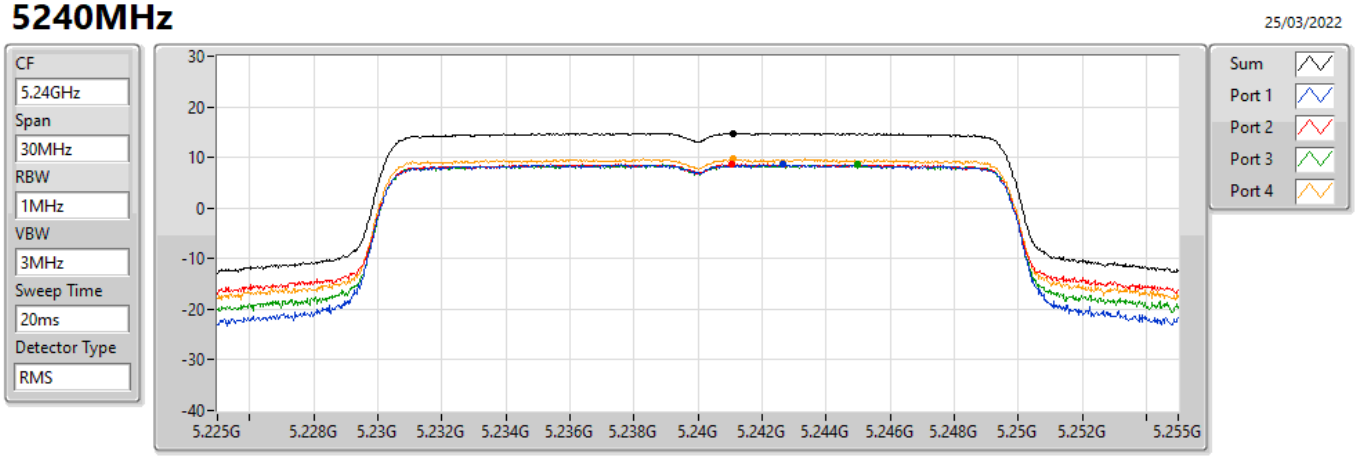
28/04/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.78	15.78	9.50	10.18	9.95	9.89

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

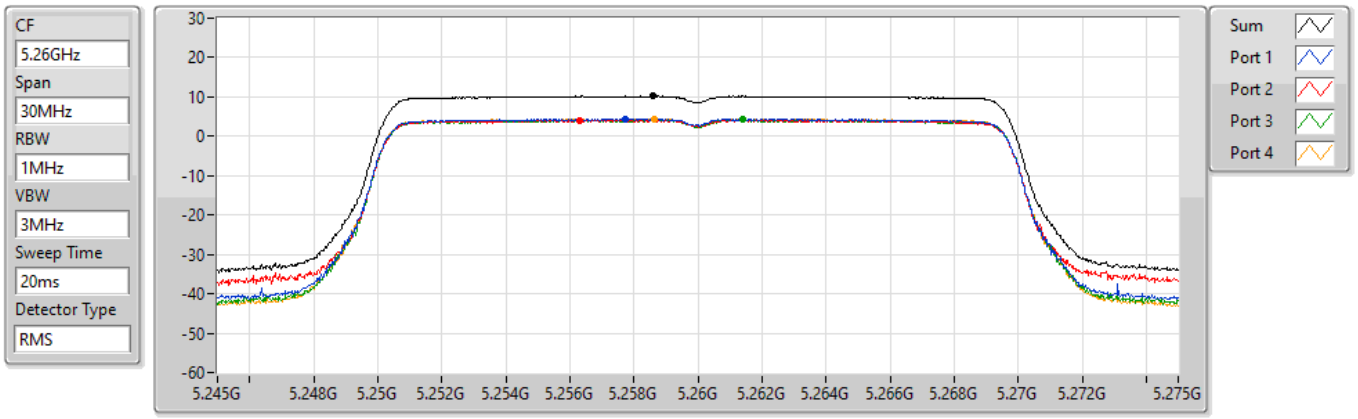
5240MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.78	14.78	8.59	8.65	8.58	9.71

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

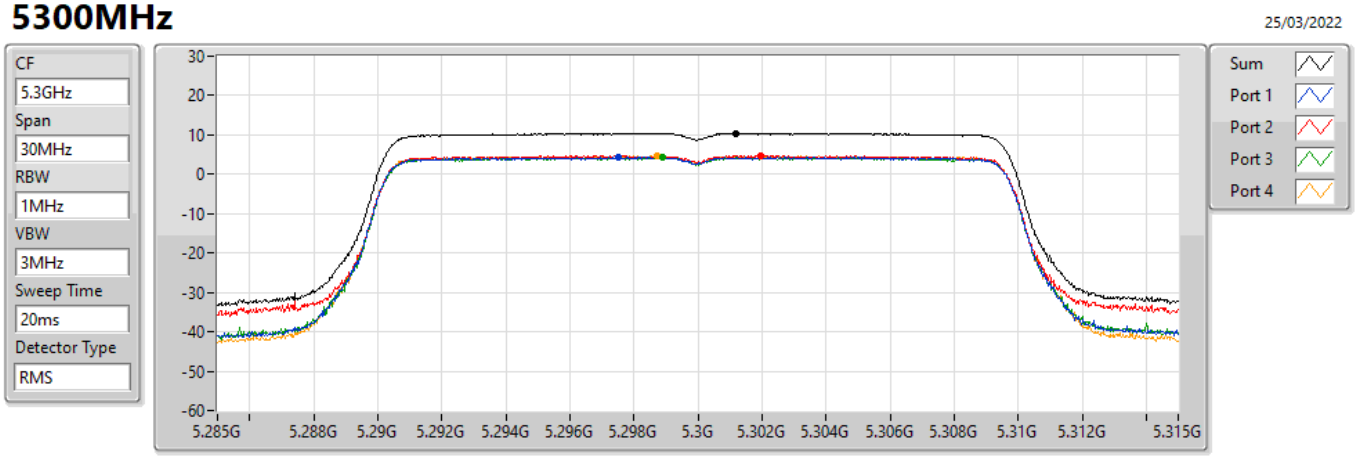
5260MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.21	10.21	4.47	4.13	4.20	4.47

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5300MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.36	10.36	4.33	4.70	4.28	4.58

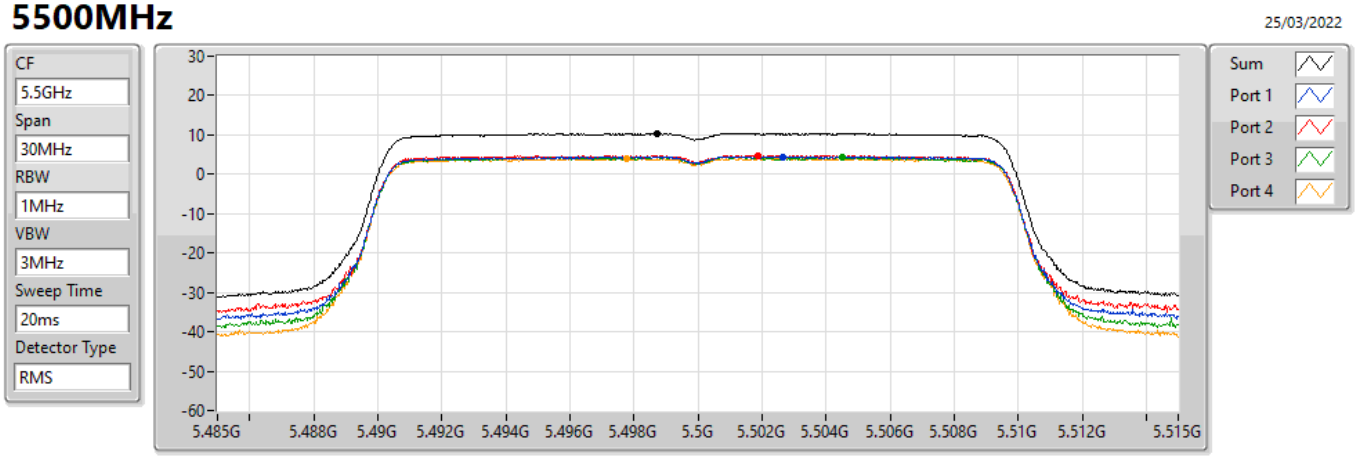
802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5320MHz

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.20	10.20	4.19	4.61	4.10	4.43

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

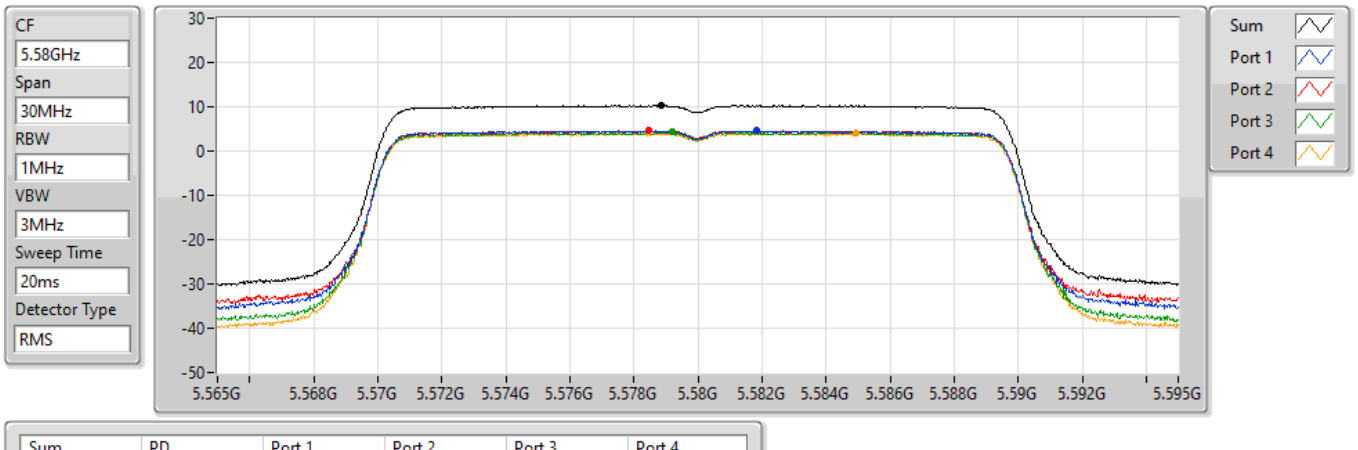
5500MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.29	10.29	4.46	4.77	4.38	4.03

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

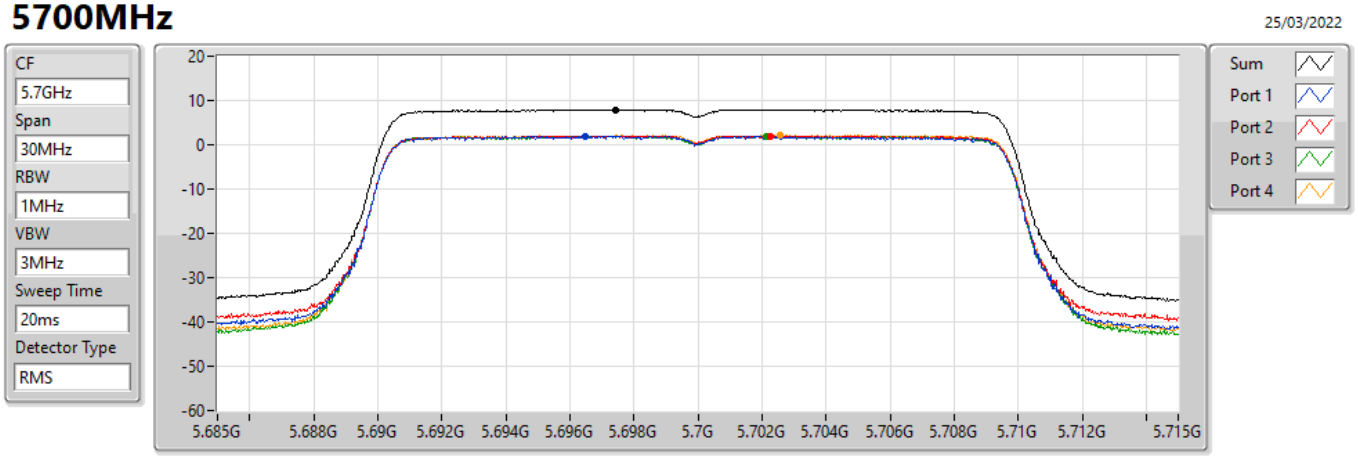
5580MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.24	10.24	4.55	4.57	4.22	4.02

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

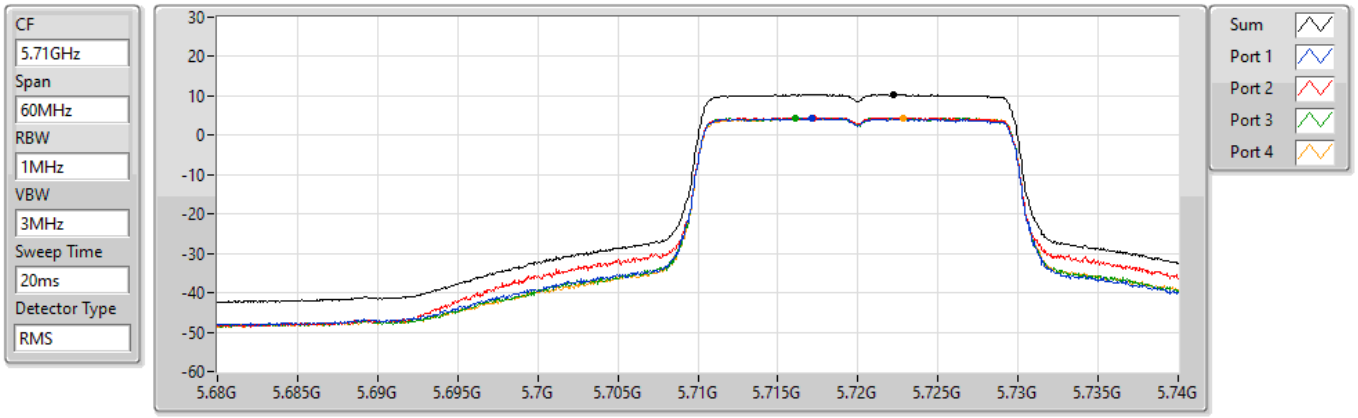
5700MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.96	7.96	1.93	2.03	2.01	2.24

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5720MHz Straddle 5.47-5.725GHz

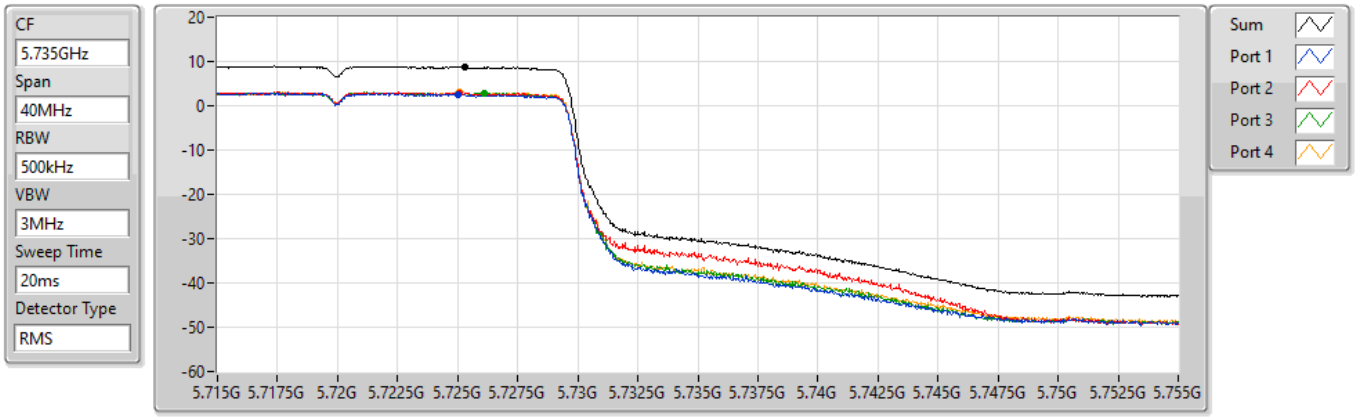


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.32	10.32	4.31	4.51	4.50	4.39

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5720MHz Straddle 5.725-5.85GHz

25/03/2022

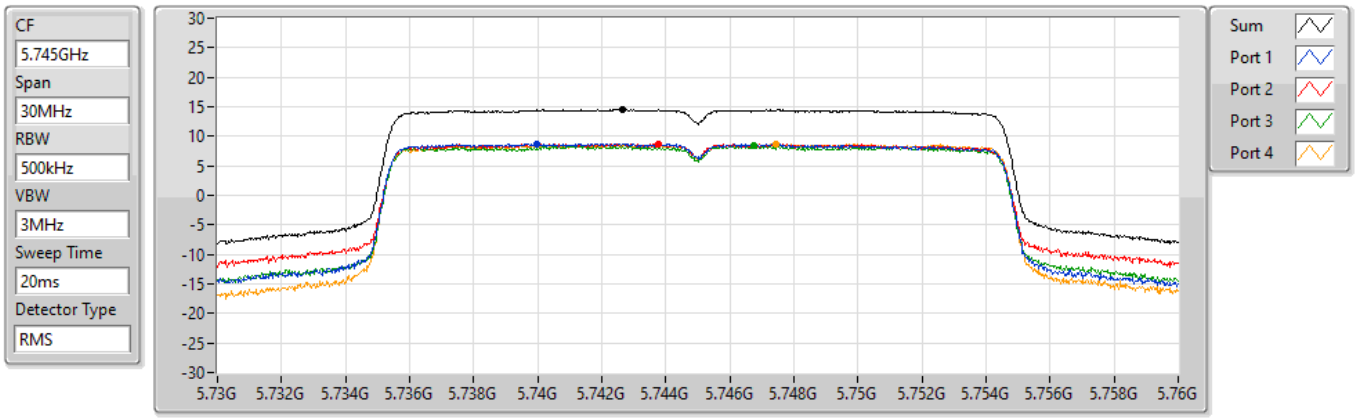


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.69	8.69	2.48	2.87	2.90	3.00

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5745MHz

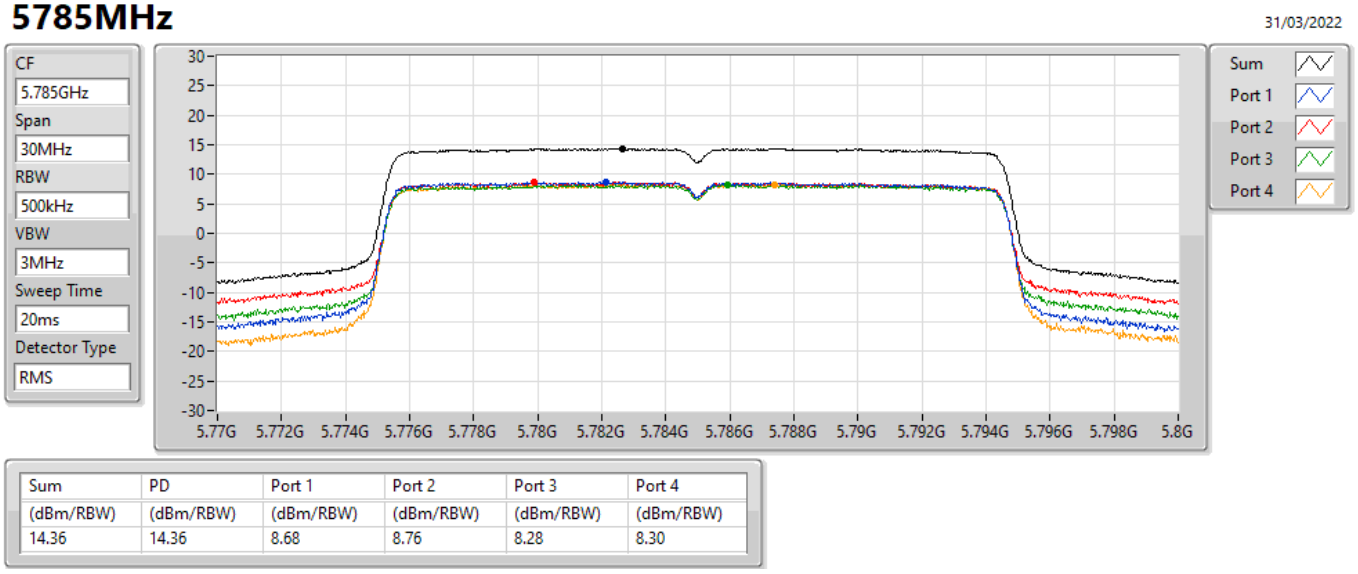
31/03/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.53	14.53	8.77	8.77	8.48	8.68

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

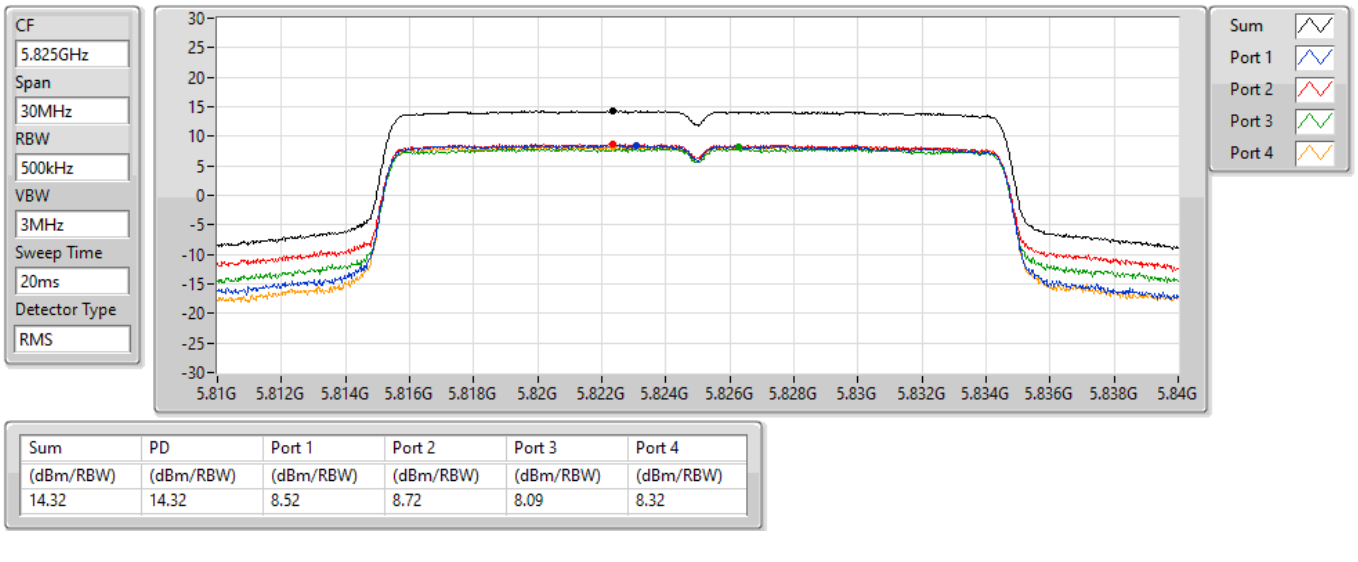
5785MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.36	14.36	8.68	8.76	8.28	8.30

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

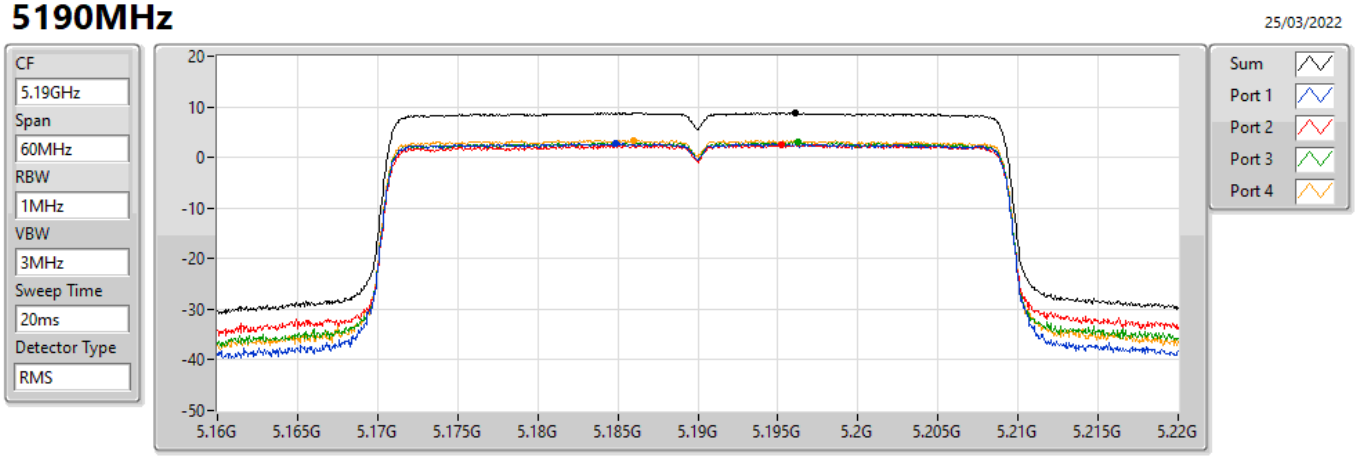
5825MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.32	14.32	8.52	8.72	8.09	8.32

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

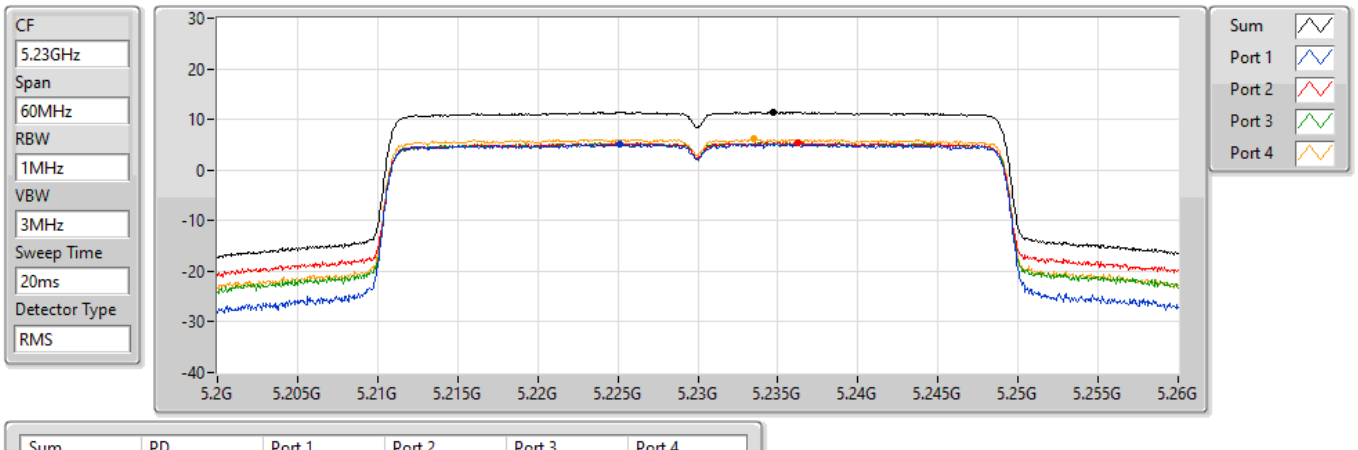
5190MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.81	8.81	2.85	2.51	3.05	3.45

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

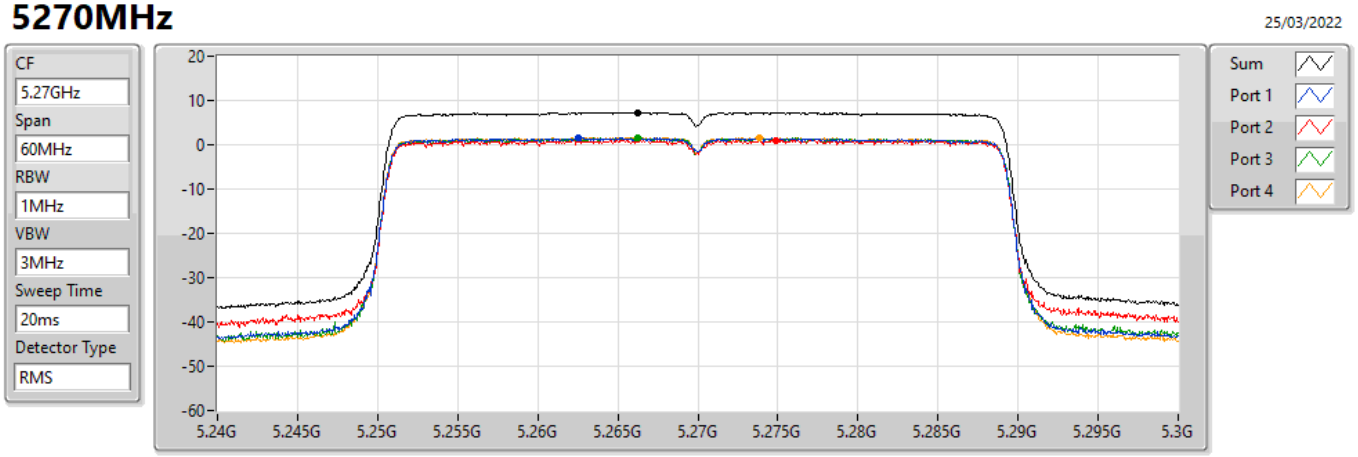
5230MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.40	11.40	5.11	5.46	5.40	6.09

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

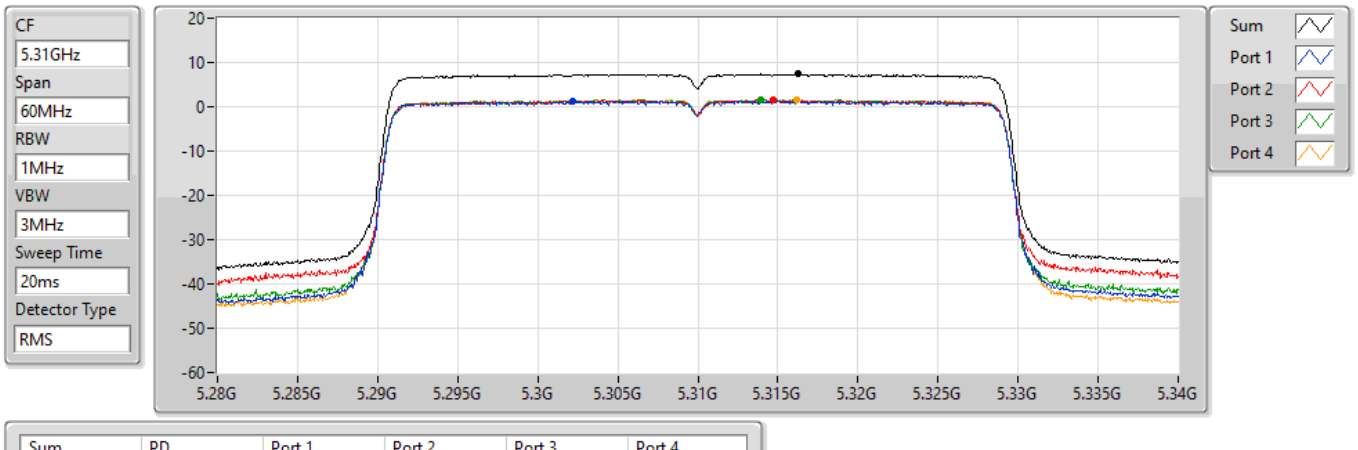
5270MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.33	7.33	1.61	0.99	1.55	1.64

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

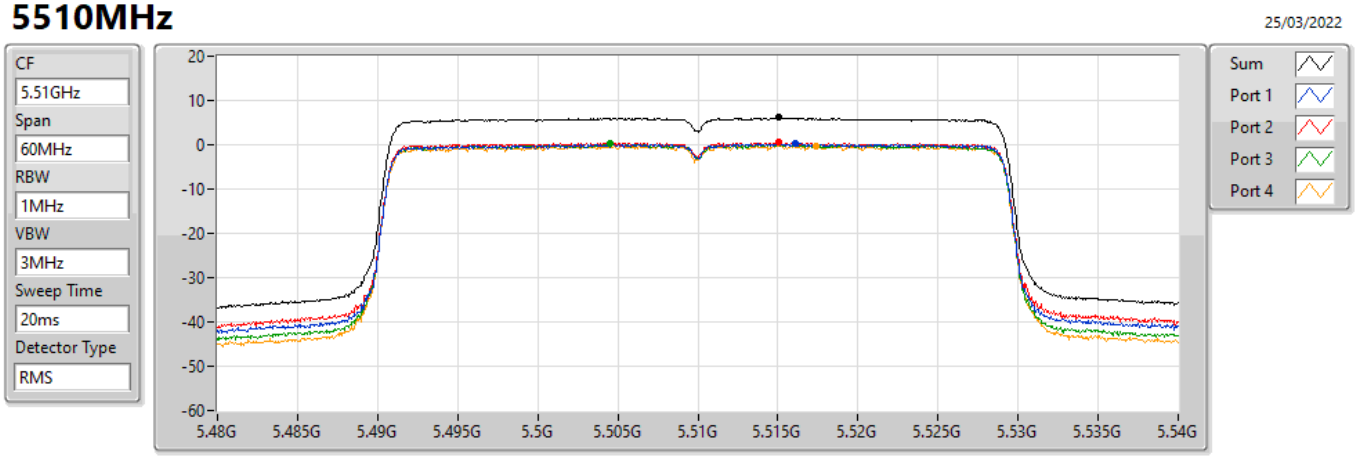
5310MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.36	7.36	1.27	1.50	1.59	1.58

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

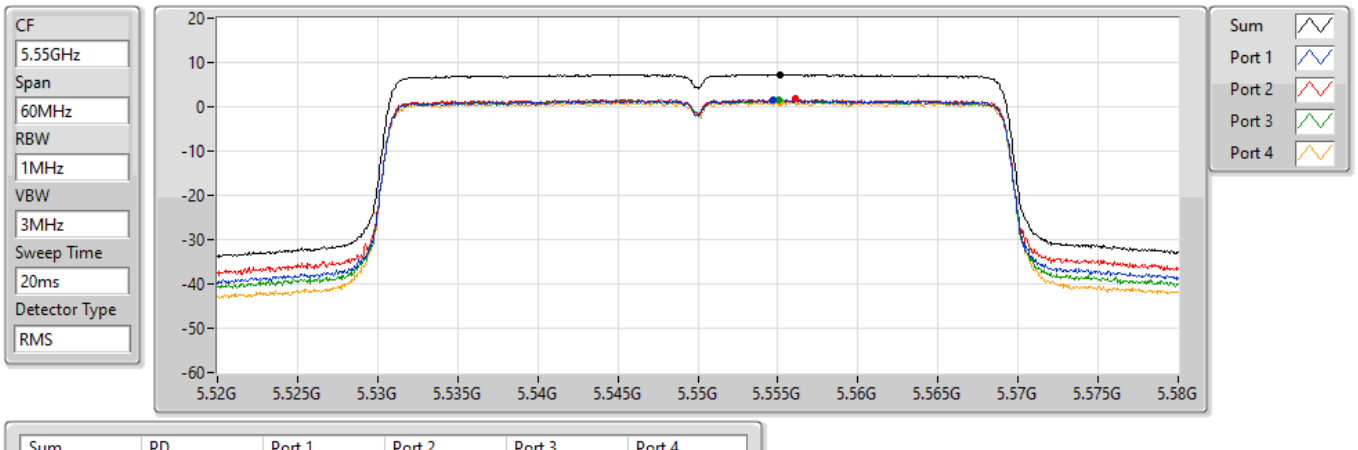
5510MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.11	6.11	0.27	0.49	0.18	-0.24

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

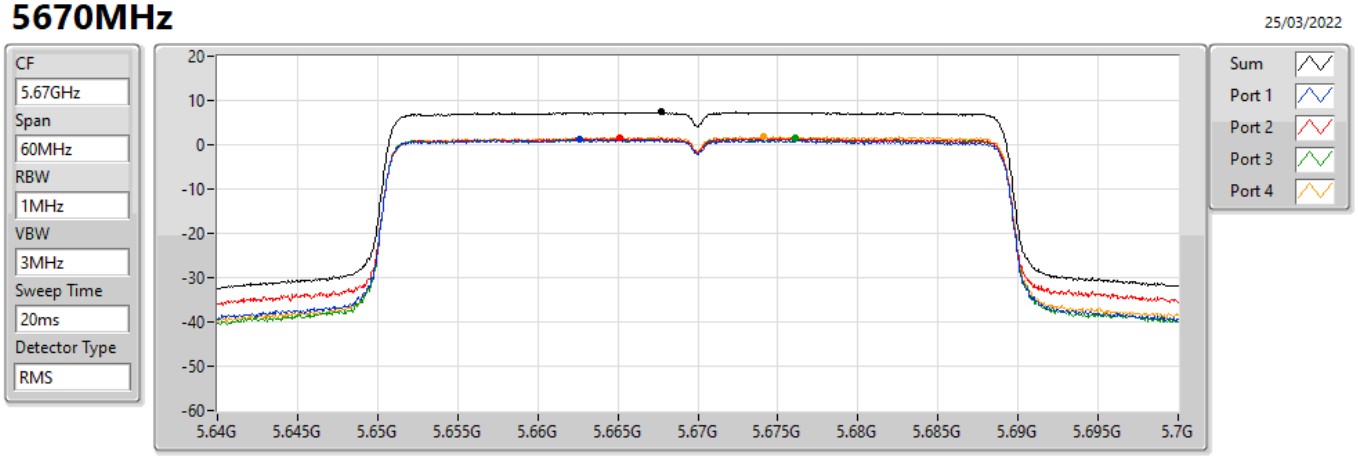
5550MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.33	7.33	1.45	1.81	1.58	1.06

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

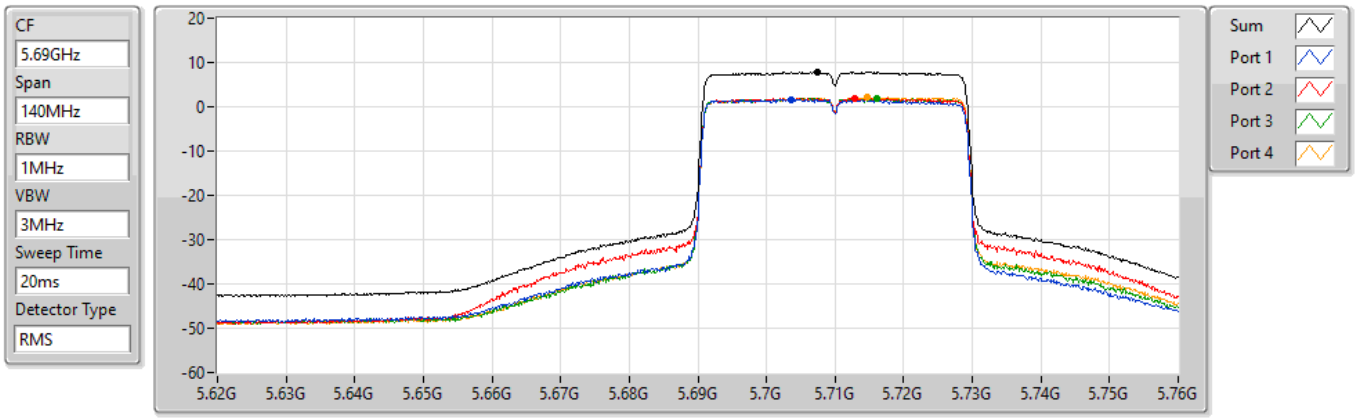
5670MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.40	7.40	1.13	1.46	1.42	1.76

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5710MHz Straddle 5.47-5.725GHz

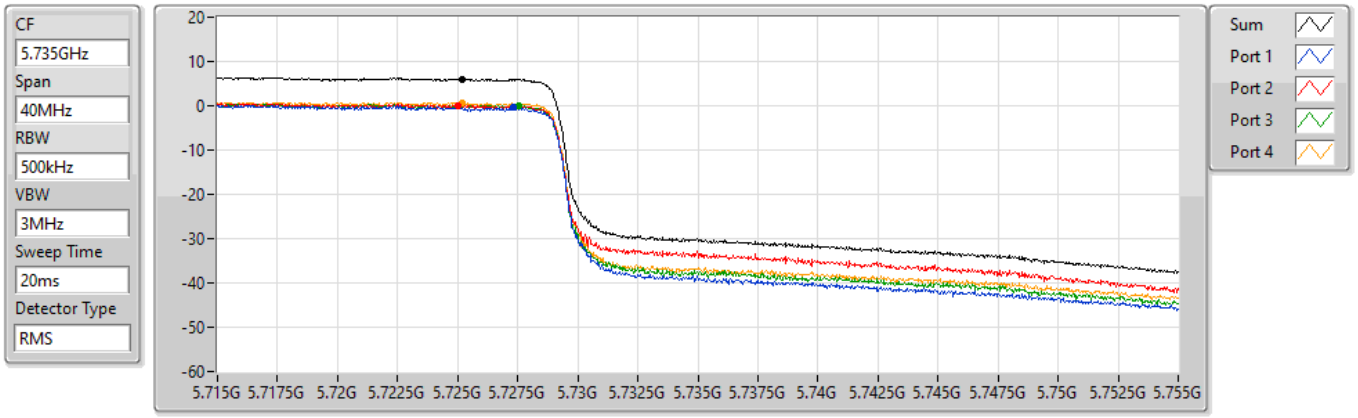


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.75	7.75	1.67	1.95	1.92	2.11

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5710MHz Straddle 5.725-5.85GHz

25/03/2022

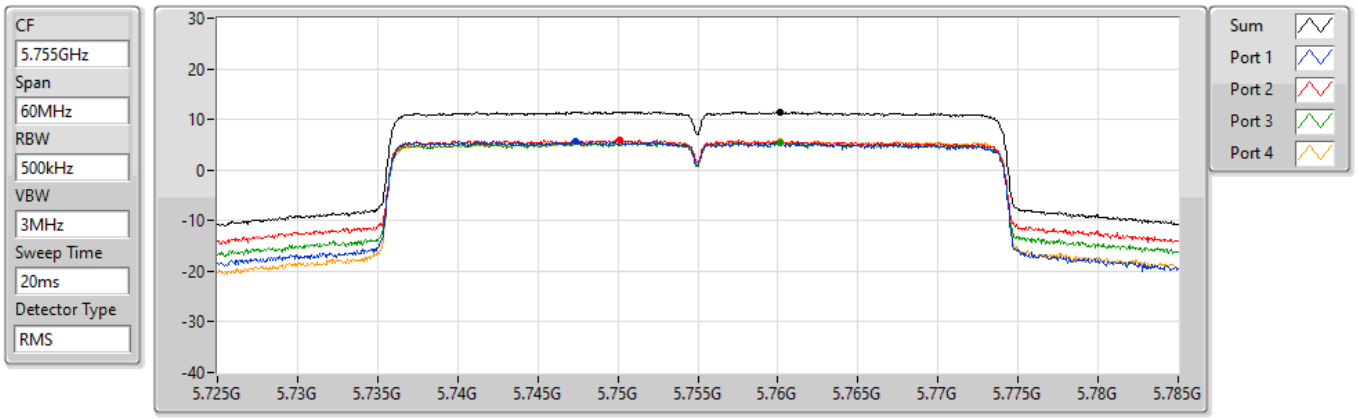


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.04	6.04	-0.41	-0.01	0.07	0.71

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5755MHz

31/03/2022

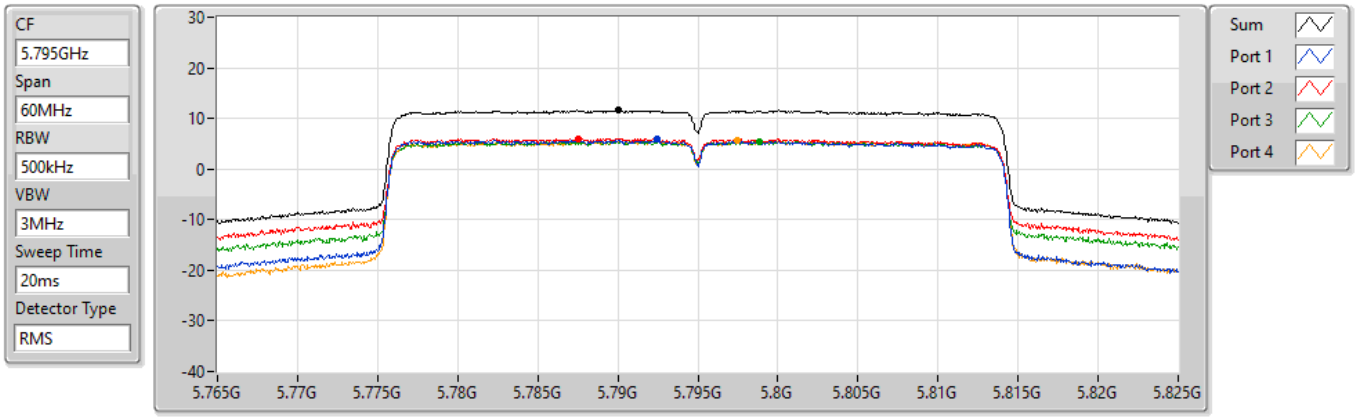


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.54	11.54	5.63	5.93	5.45	5.73

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5795MHz

31/03/2022

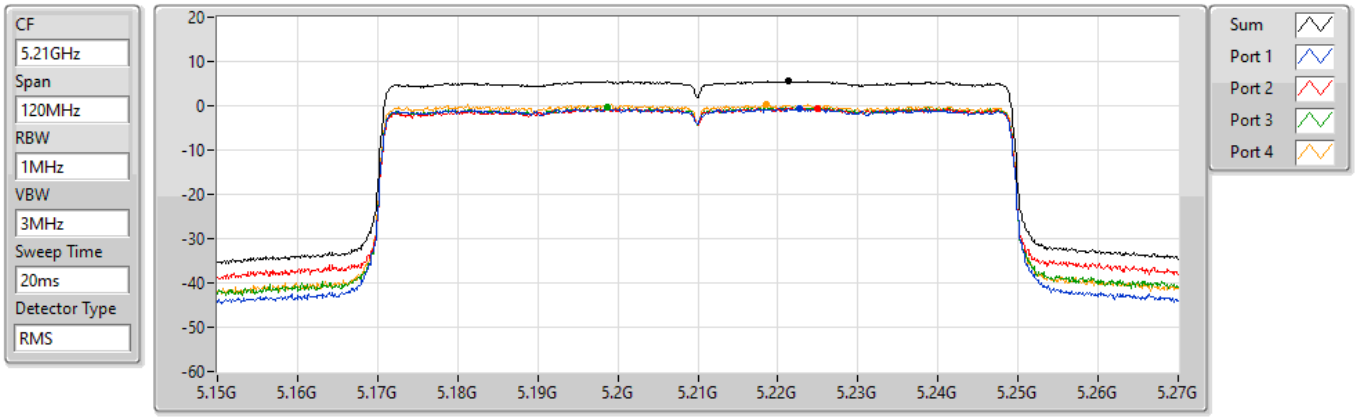


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.60	11.60	5.81	6.06	5.51	5.61

802.11ax HEW80-BF_Nss1,(MCS0)_4TX PSD

5210MHz

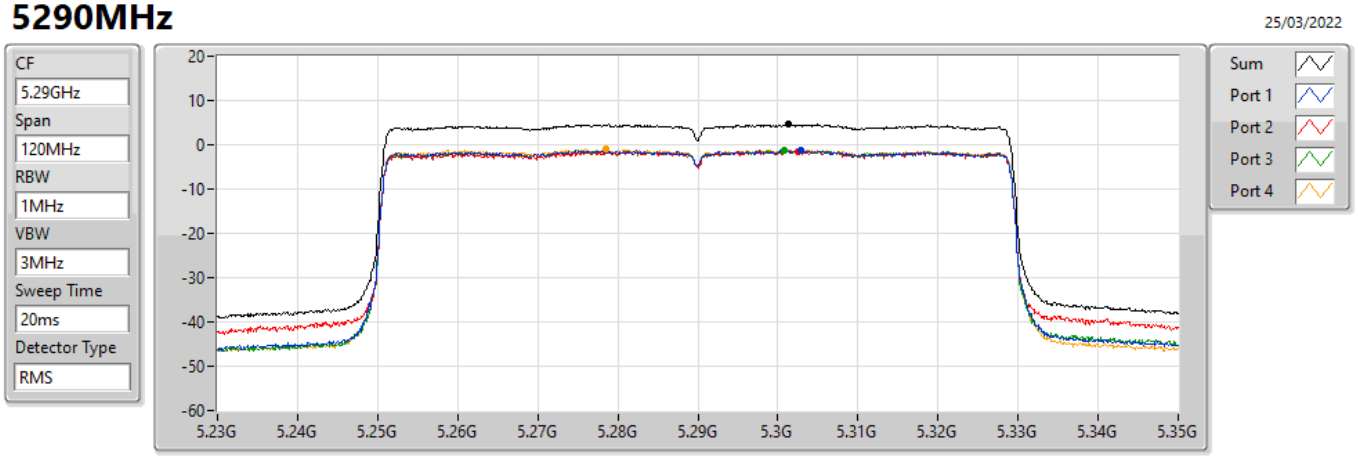
25/03/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.56	5.56	-0.65	-0.49	-0.32	0.21

802.11ax HEW80-BF_Nss1,(MCS0)_4TX PSD

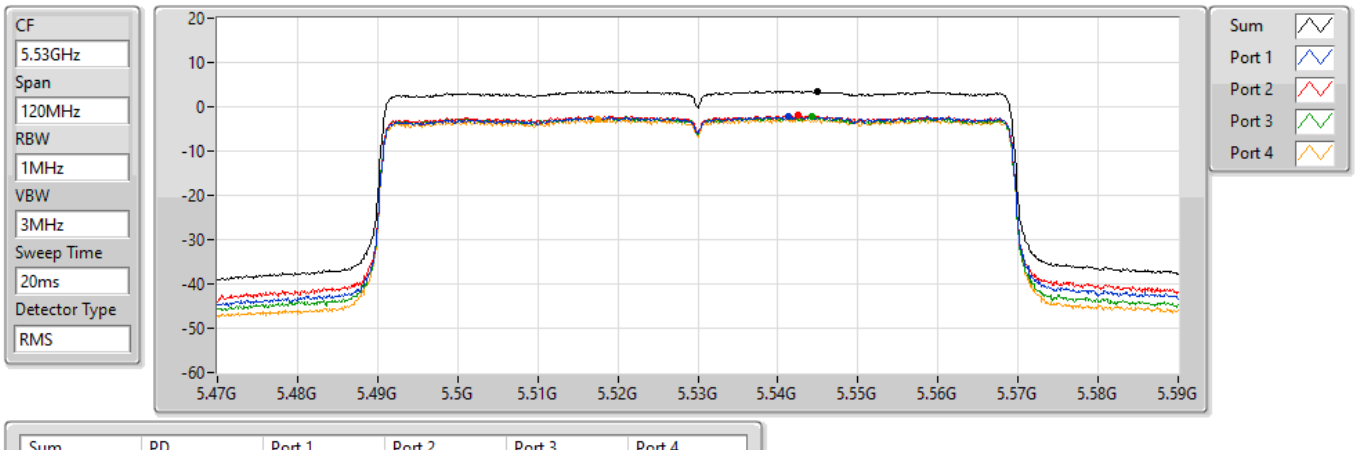
5290MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.61	4.61	-1.29	-1.43	-1.31	-1.02

802.11ax HEW80-BF_Nss1,(MCS0)_4TX PSD

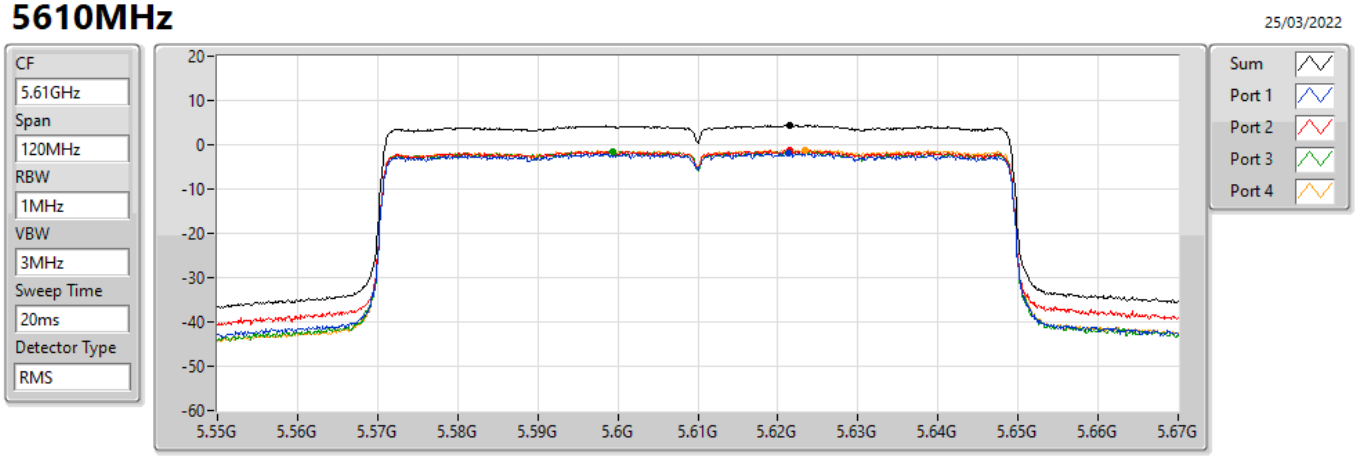
5530MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.58	3.58	-2.21	-1.93	-2.33	-2.76

802.11ax HEW80-BF_Nss1,(MCS0)_4TX PSD

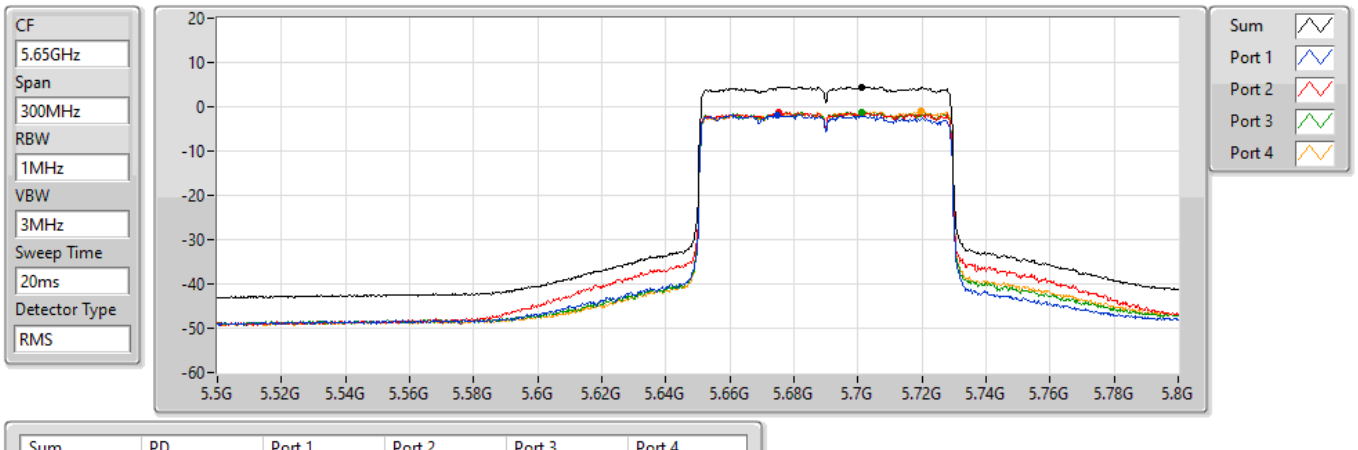
5610MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.38	4.38	-1.83	-1.28	-1.49	-1.12

802.11ax HEW80-BF_Nss1,(MCS0)_4TX PSD

5690MHz Straddle 5.47-5.725GHz

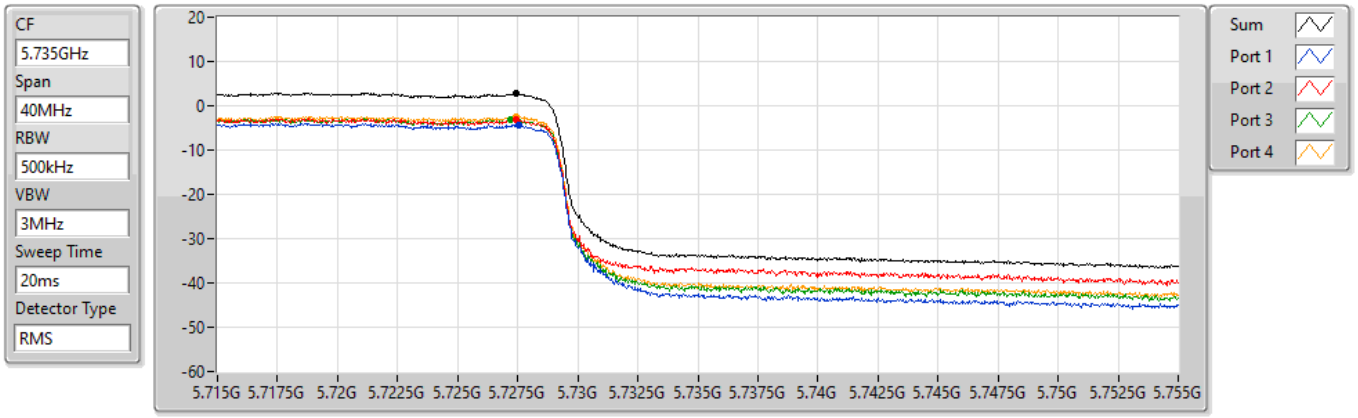


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.53	4.53	-1.78	-1.16	-1.25	-1.00

802.11ax HEW80-BF_Nss1,(MCS0)_4TX PSD

5690MHz Straddle 5.725-5.85GHz

25/03/2022

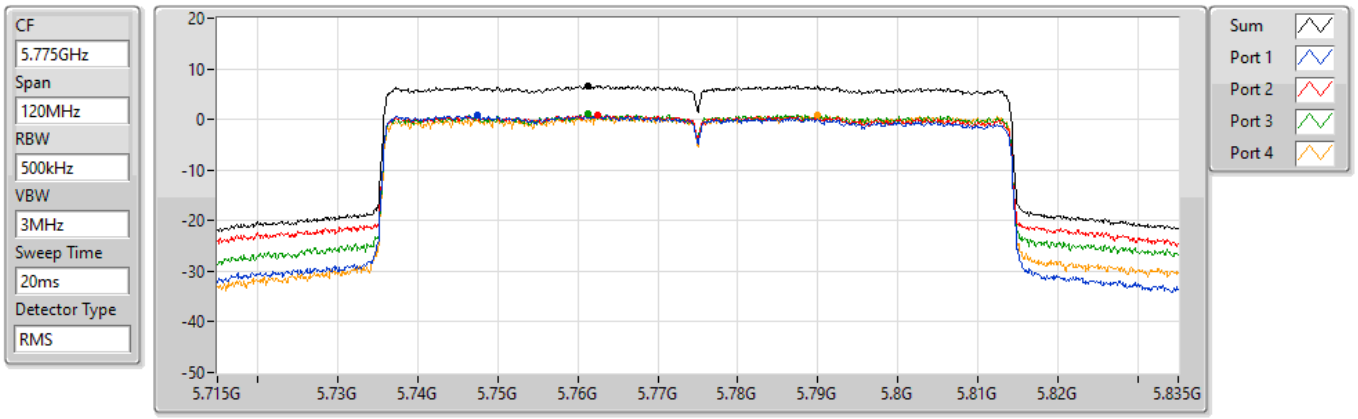


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.80	2.80	-4.42	-2.97	-2.99	-2.35

802.11ax HEW80-BF_Nss1,(MCS0)_4TX PSD

5775MHz

25/03/2022

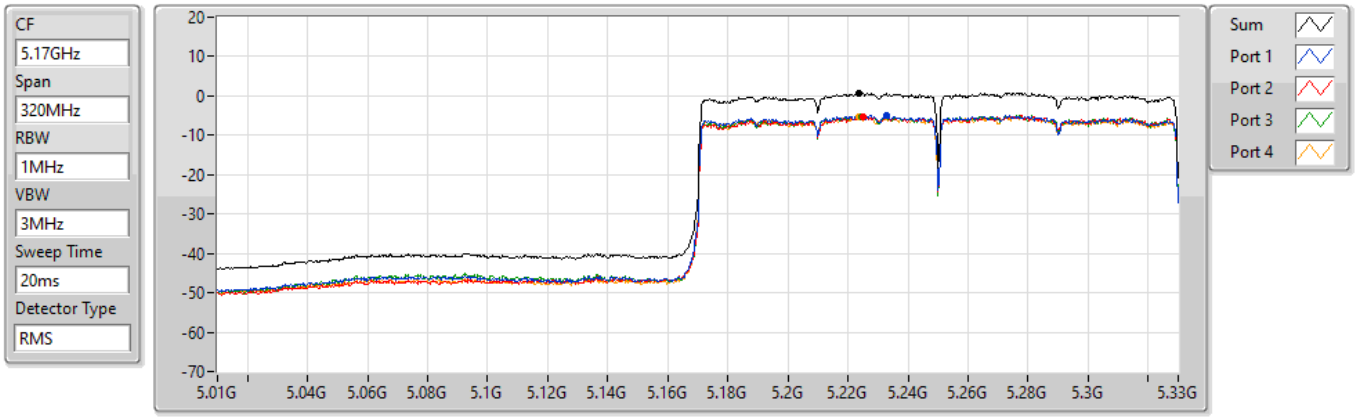


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.65	6.65	0.94	0.81	1.06	0.78

802.11ax HEW160-BF_Nss1,(MCS0)_4TX PSD

5250MHz Straddle 5.15-5.25GHz

25/03/2022

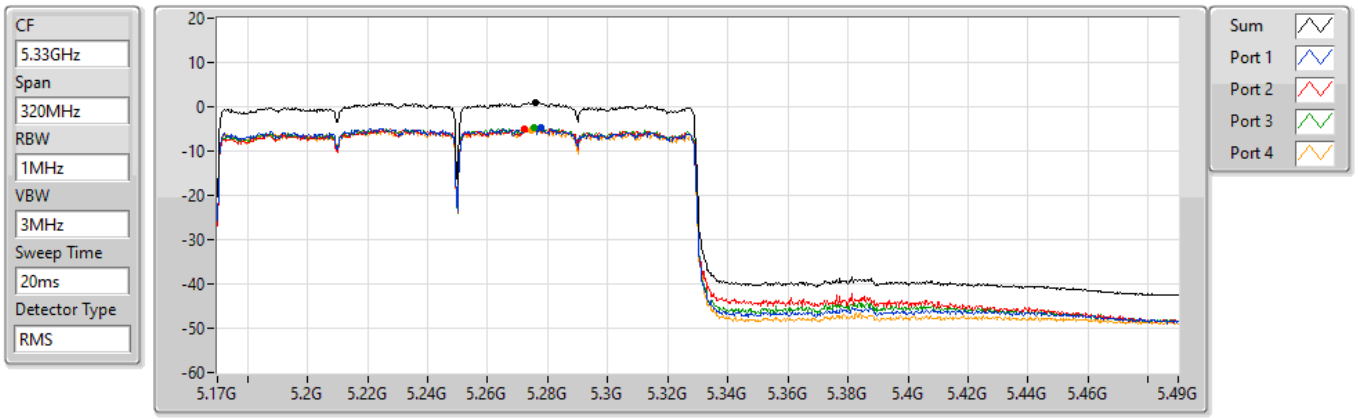


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.64	0.64	-5.03	-5.17	-5.26	-5.21

802.11ax HEW160-BF_Nss1,(MCS0)_4TX PSD

5250MHz Straddle 5.25-5.35GHz

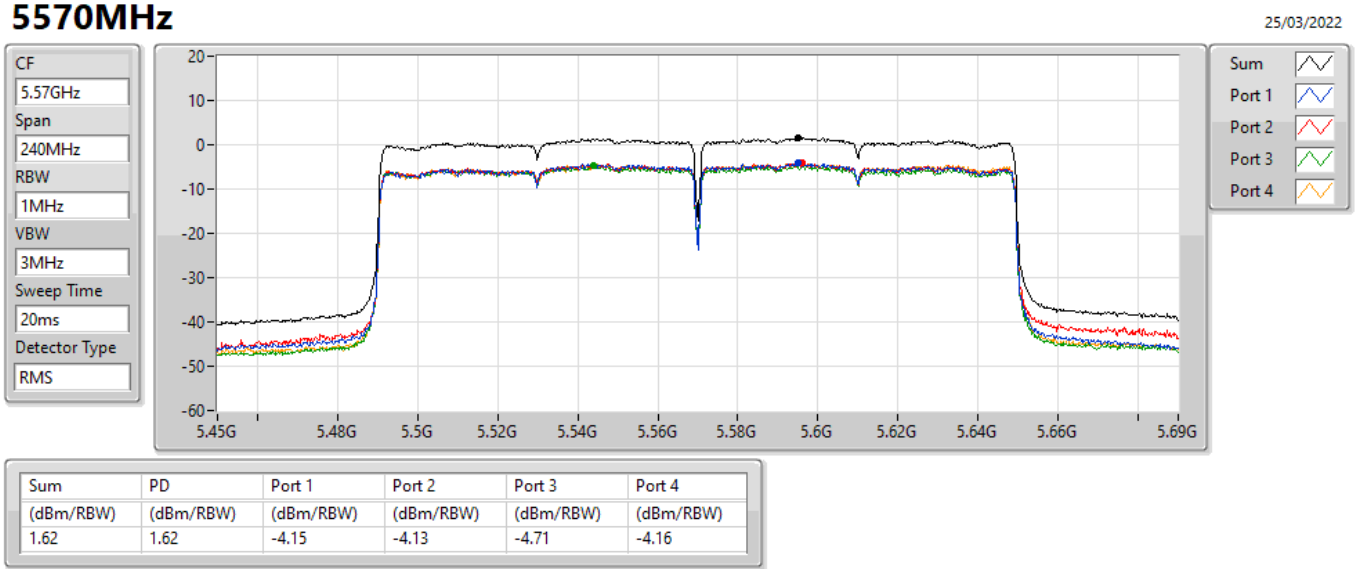
25/03/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.88	0.88	-4.84	-4.90	-4.82	-5.24

802.11ax HEW160-BF_Nss1,(MCS0)_4TX PSD

5570MHz

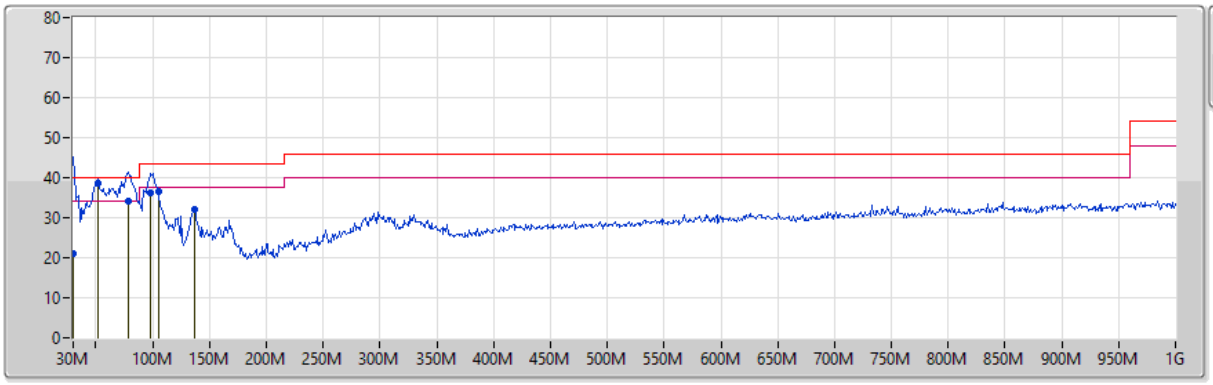


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.62	1.62	-4.15	-4.13	-4.71	-4.16

Summary

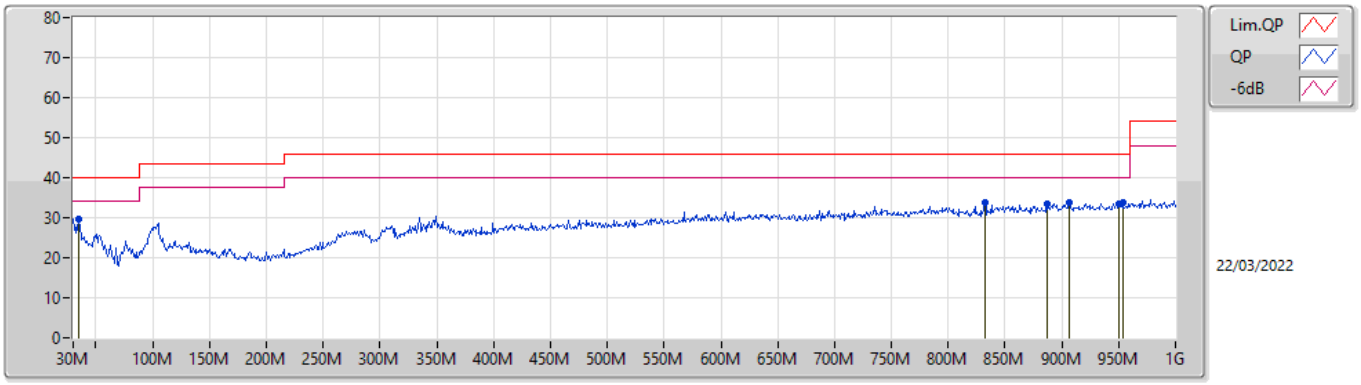
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	51.34M	38.76	40.00	-1.24	Vertical
Mode 4	Pass	PK	80.44M	34.77	40.00	-5.23	Vertical

Mode 1



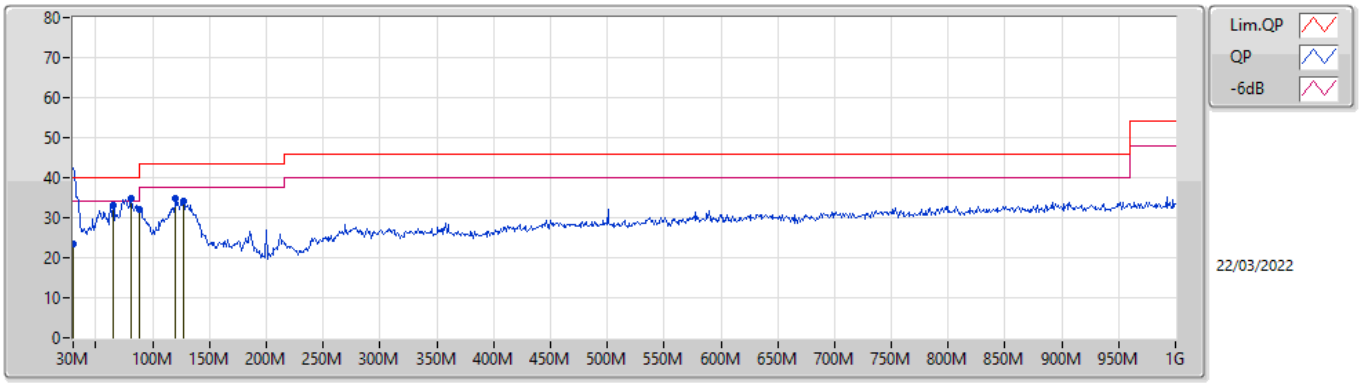
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	30M	21.09	40.00	-18.91	-7.13	3	Vertical	26	2.00	-	28.22	23.55	1.50	32.18
QP	51.34M	38.76	40.00	-1.24	-17.33	3	Vertical	244	1.25	"Worst"	56.09	13.28	1.60	32.21
QP	78.5M	34.21	40.00	-5.79	-17.69	3	Vertical	240	1.50	-	51.90	12.63	1.80	32.12
QP	97.9M	36.11	43.50	-7.39	-13.77	3	Vertical	158	1.00	-	49.88	16.43	1.86	32.06
PK	104.69M	36.45	43.50	-7.05	-12.62	3	Vertical	359	1.00	-	49.07	17.55	1.90	32.07
PK	136.7M	32.07	43.50	-11.43	-12.71	3	Vertical	182	1.00	-	44.78	17.51	1.98	32.20

Mode 1



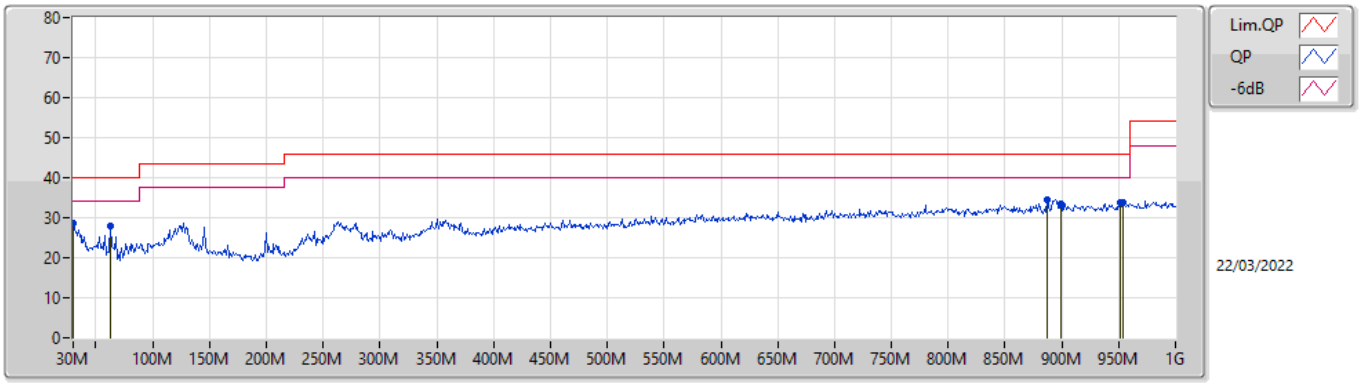
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	34.85M	29.81	40.00	-10.19	-9.46	3	Horizontal	179	2.00	"Worst"	39.27	21.09	1.60	32.15
PK	832.19M	33.74	46.00	-12.26	-3.27	3	Horizontal	150	2.00	-	37.01	26.36	3.60	33.23
PK	886.51M	33.35	46.00	-12.65	-2.16	3	Horizontal	305	1.50	-	35.51	27.10	3.82	33.08
PK	906.88M	33.72	46.00	-12.28	-2.15	3	Horizontal	62	1.50	-	35.87	26.95	3.90	33.00
PK	950.53M	33.47	46.00	-12.53	-1.60	3	Horizontal	322	1.25	-	35.07	26.89	3.90	32.39
PK	953.44M	33.63	46.00	-12.37	-1.56	3	Horizontal	240	1.25	-	35.19	26.90	3.90	32.36

Mode 4



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30M	23.53	40.00	-16.47	-7.13	3	Vertical	360	2.00	-	30.66	23.55	1.50	32.18
PK	64.92M	33.03	40.00	-6.97	-18.06	3	Vertical	259	1.00	-	51.09	12.42	1.70	32.18
PK	80.44M	34.77	40.00	-5.23	-17.48	3	Vertical	315	1.00	"Worst"	52.25	12.84	1.80	32.12
PK	88M	32.05	43.50	-11.45	-16.06	3	Vertical	152	1.00	-	48.11	14.21	1.80	32.07
PK	120.21M	34.91	43.50	-8.59	-11.81	3	Vertical	360	1.00	-	46.72	18.44	1.90	32.15
PK	127M	34.27	43.50	-9.23	-12.04	3	Vertical	96	1.00	-	46.31	18.19	1.94	32.17

Mode 4



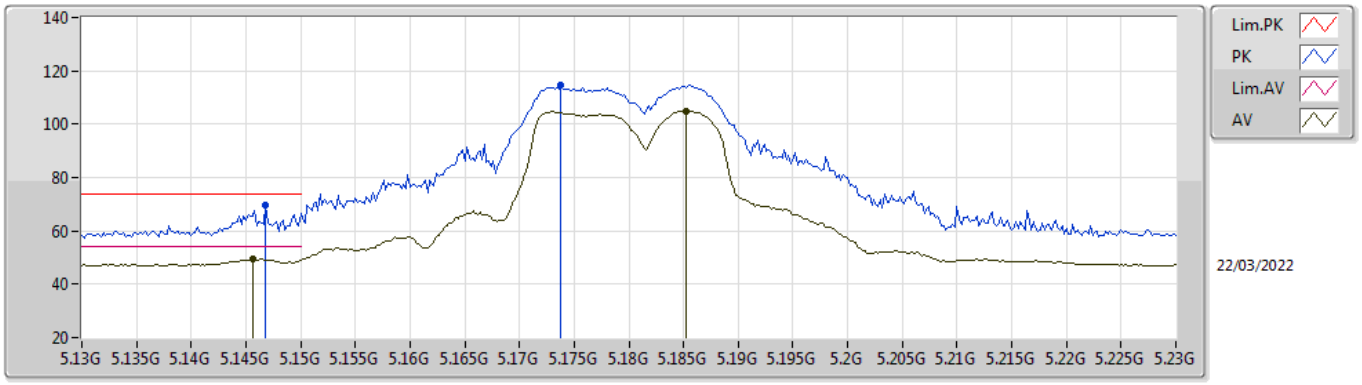
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30M	28.63	40.00	-11.37	-7.13	3	Horizontal	253	1.25	"Worst"	35.76	23.55	1.50	32.18
PK	62.98M	27.86	40.00	-12.14	-17.96	3	Horizontal	106	2.00	-	45.82	12.52	1.70	32.18
PK	887.48M	34.38	46.00	-11.62	-2.15	3	Horizontal	213	1.00	-	36.53	27.11	3.82	33.08
PK	899.12M	33.50	46.00	-12.50	-2.02	3	Horizontal	241	1.25	-	35.52	27.19	3.89	33.10
PK	951.5M	33.91	46.00	-12.09	-1.59	3	Horizontal	234	1.25	-	35.50	26.89	3.90	32.38
PK	954.41M	33.80	46.00	-12.20	-1.55	3	Horizontal	226	1.00	-	35.35	26.90	3.90	32.35

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	PK	5.7252G	68.18	68.20	-0.02	3	Vertical	360	2.60	-

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TnomVnom

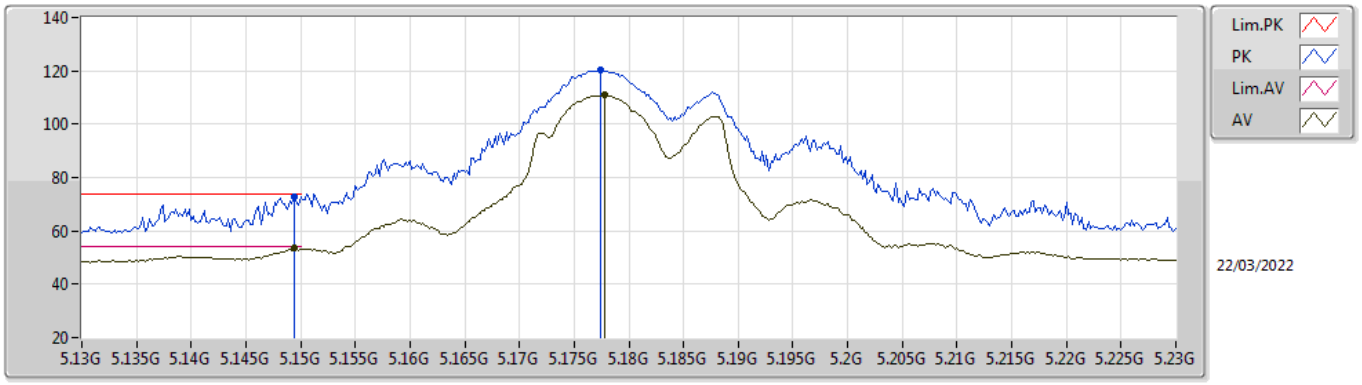


EUT Z_4TX
Setting 83
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1468G	69.49	74.00	-4.51	63.35	3	Vertical	261	2.60	-	32.71	6.37	32.94
AV	5.1456G	49.31	54.00	-4.69	43.17	3	Vertical	261	2.60	-	32.71	6.37	32.94
PK	5.1738G	114.60	Inf	-Inf	108.45	3	Vertical	261	2.60	-	32.70	6.39	32.94
AV	5.1852G	104.94	Inf	-Inf	98.79	3	Vertical	261	2.60	-	32.70	6.39	32.94

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TnomVnom

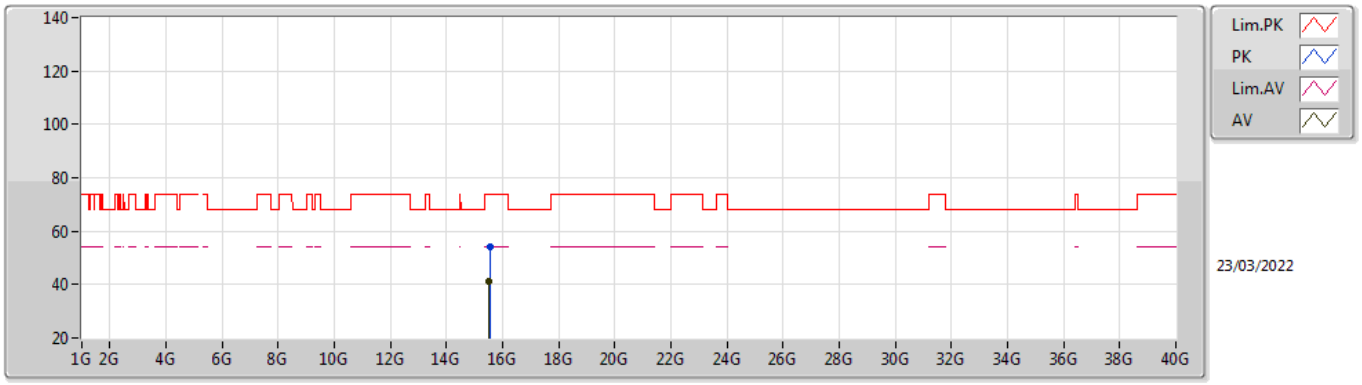


EUT Z_4TX
Setting 83
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1494G	72.96	74.00	-1.04	66.83	3	Horizontal	110	2.81	-	32.70	6.37	32.94
AV	5.1494G	53.55	54.00	-0.45	47.42	3	Horizontal	110	2.81	-	32.70	6.37	32.94
PK	5.1774G	120.13	Inf	-Inf	113.98	3	Horizontal	110	2.81	-	32.70	6.39	32.94
AV	5.1778G	110.91	Inf	-Inf	104.76	3	Horizontal	110	2.81	-	32.70	6.39	32.94

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TnomVnom

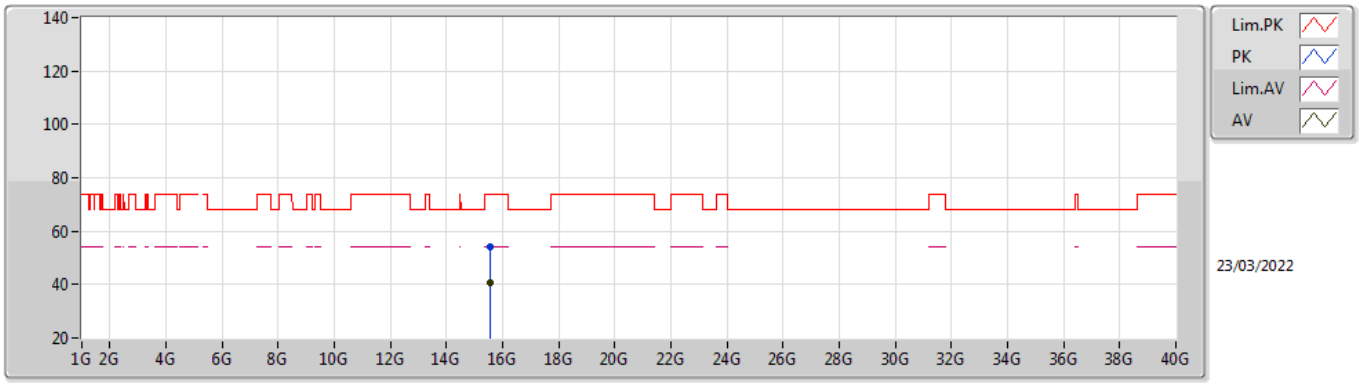


EUT Z_4TX
Setting 83
01-A-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.539G	54.26	74.00	-19.74	39.89	3	Vertical	277	1.03	-	37.78	9.79	33.20
AV	15.5309G	41.15	54.00	-12.85	26.74	3	Vertical	277	1.03	-	37.81	9.79	33.19

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TnomVnom

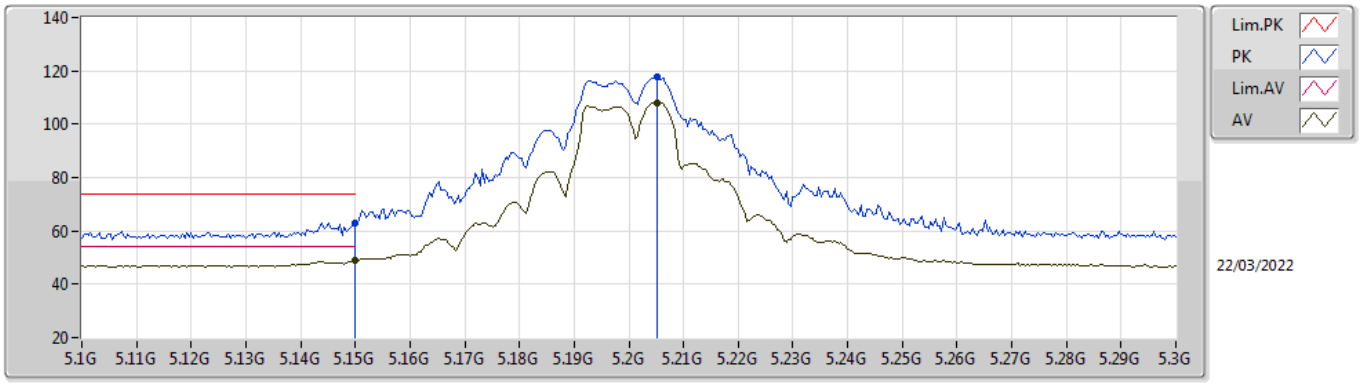


EUT Z_4TX
Setting 83
01-A-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.5412G	54.38	74.00	-19.62	40.01	3	Horizontal	344	1.80	-	37.78	9.79	33.20
AV	15.54516G	40.59	54.00	-13.41	26.23	3	Horizontal	344	1.80	-	37.76	9.80	33.20

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TnomVnom

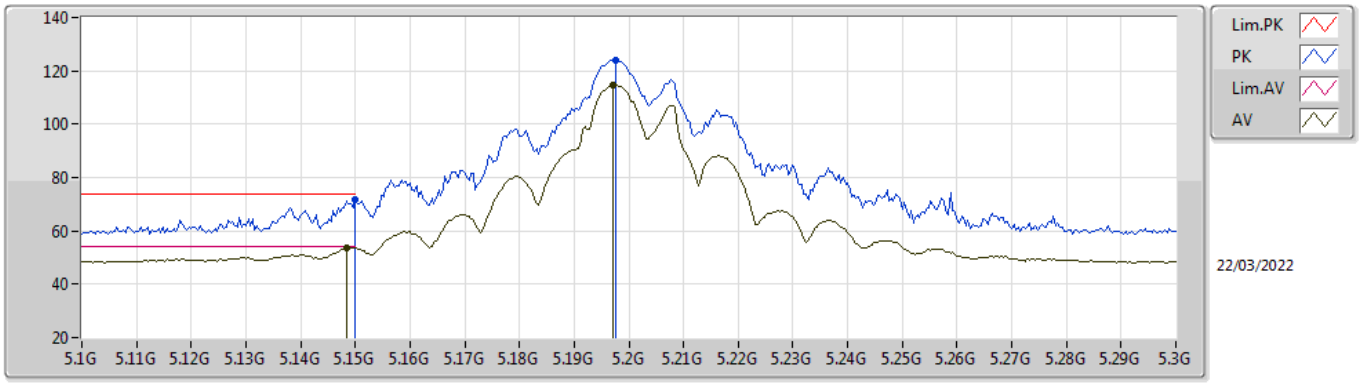


EUT Z_4TX
Setting 97
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.15G	62.98	74.00	-11.02	56.85	3	Vertical	260	2.71	-	32.70	6.37	32.94
AV	5.15G	48.73	54.00	-5.27	42.60	3	Vertical	260	2.71	-	32.70	6.37	32.94
PK	5.2052G	117.69	Inf	-Inf	111.52	3	Vertical	260	2.71	-	32.71	6.40	32.94
AV	5.2052G	108.11	Inf	-Inf	101.94	3	Vertical	260	2.71	-	32.71	6.40	32.94

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TnomVnom

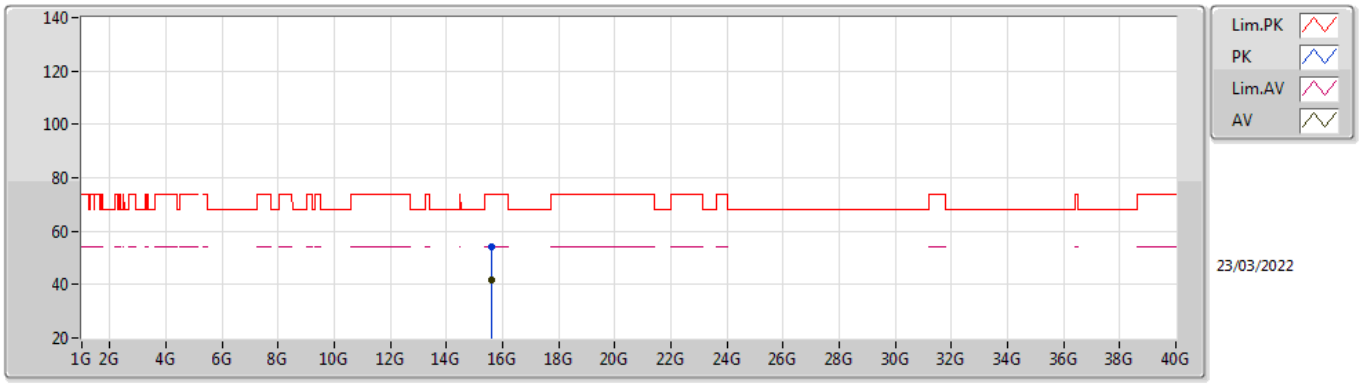


EUT Z_4TX
Setting 97
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.15G	71.54	74.00	-2.46	65.41	3	Horizontal	110	2.92	-	32.70	6.37	32.94
AV	5.1484G	53.81	54.00	-0.19	47.68	3	Horizontal	110	2.92	-	32.70	6.37	32.94
PK	5.1976G	123.80	Inf	-Inf	117.64	3	Horizontal	110	2.92	-	32.70	6.40	32.94
AV	5.1972G	114.53	Inf	-Inf	108.37	3	Horizontal	110	2.92	-	32.70	6.40	32.94

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TnomVnom

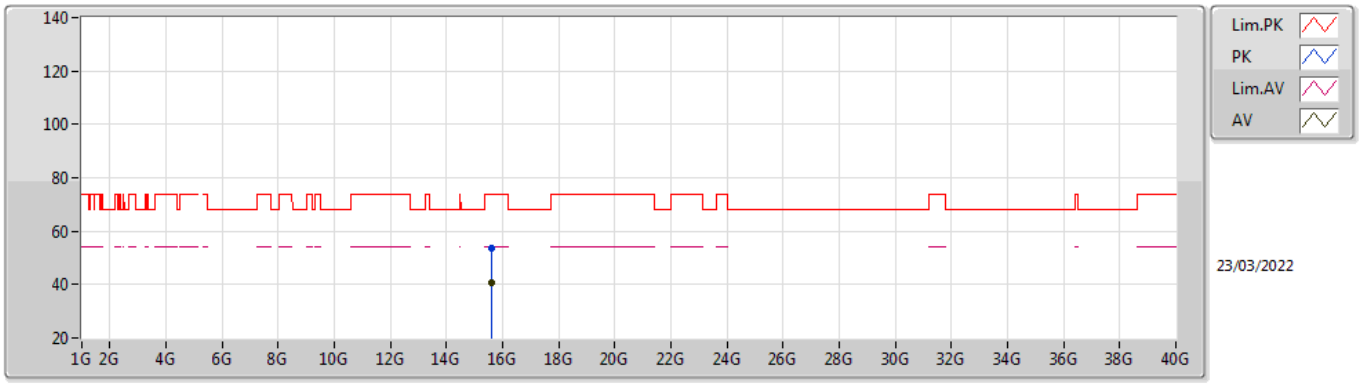


EUT Z_4TX
Setting 97
02-B-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.60564G	54.33	74.00	-19.67	40.19	3	Vertical	295	2.10	-	37.59	9.82	33.27
AV	15.60666G	41.72	54.00	-12.28	27.59	3	Vertical	295	2.10	-	37.59	9.82	33.28

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TnomVnom

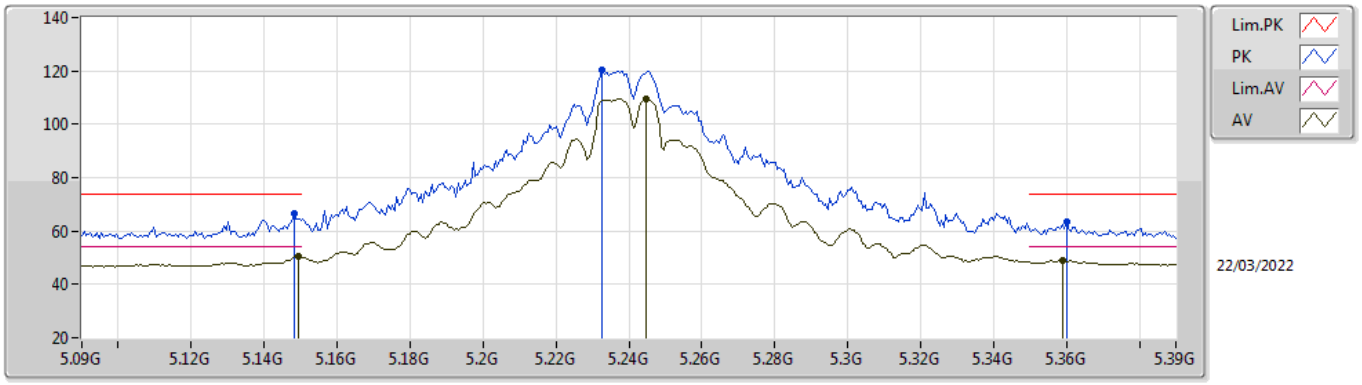


EUT Z_4TX
Setting 97
02-B-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.5991G	53.44	74.00	-20.56	39.29	3	Horizontal	18	1.80	-	37.60	9.82	33.27
AV	15.59724G	40.51	54.00	-13.49	26.34	3	Horizontal	18	1.80	-	37.61	9.82	33.26

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TnomVnom

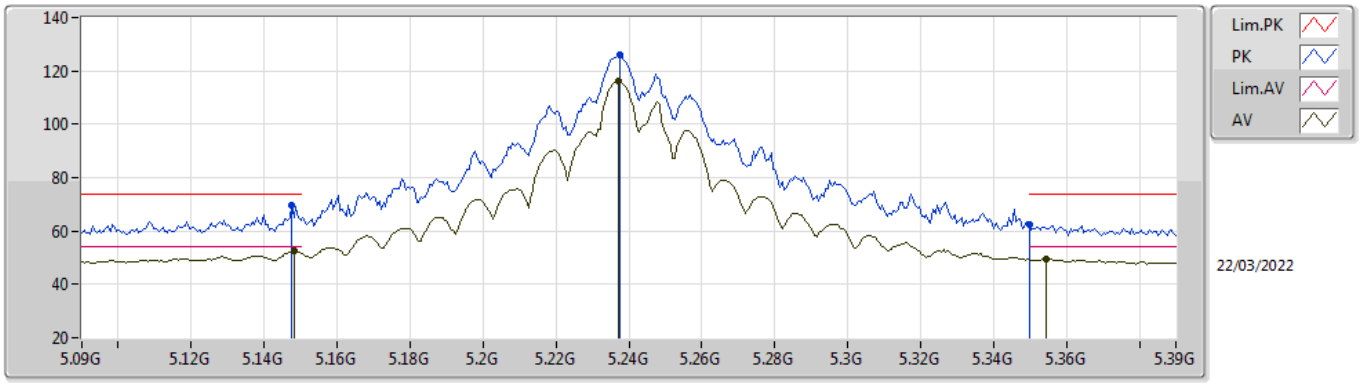


EUT Z_4TX
Setting 105
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1482G	66.41	74.00	-7.59	60.28	3	Vertical	260	2.71	-	32.70	6.37	32.94
AV	5.1494G	50.57	54.00	-3.43	44.44	3	Vertical	260	2.71	-	32.70	6.37	32.94
PK	5.2328G	120.09	Inf	-Inf	113.85	3	Vertical	260	2.71	-	32.77	6.40	32.93
AV	5.2448G	109.57	Inf	-Inf	103.31	3	Vertical	260	2.71	-	32.79	6.40	32.93
PK	5.36G	63.67	74.00	-10.33	57.15	3	Vertical	260	2.71	-	33.04	6.40	32.92
AV	5.3588G	48.96	54.00	-5.04	42.44	3	Vertical	260	2.71	-	33.04	6.40	32.92

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TnomVnom

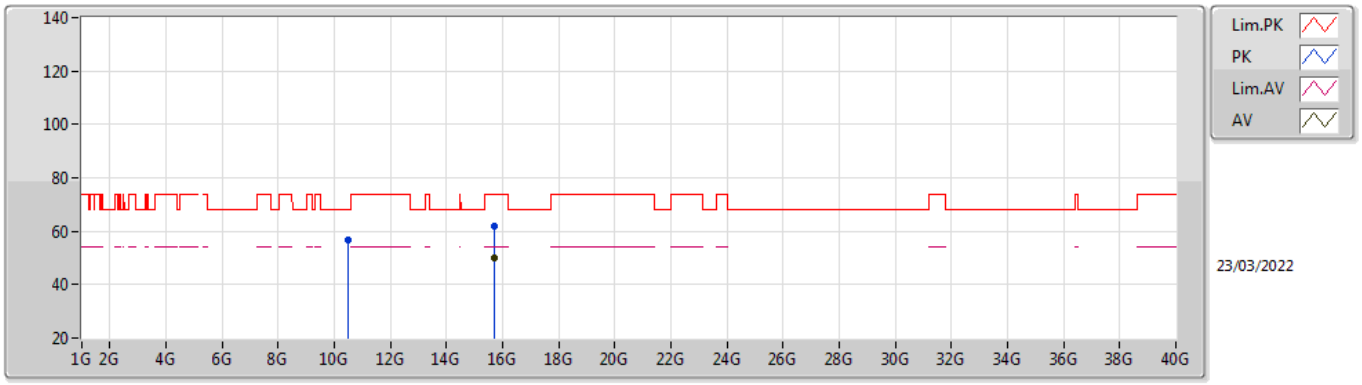


EUT Z_4TX
Setting 105
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1476G	69.46	74.00	-4.54	63.33	3	Horizontal	110	2.92	-	32.70	6.37	32.94
AV	5.1482G	52.68	54.00	-1.32	46.55	3	Horizontal	110	2.92	-	32.70	6.37	32.94
PK	5.2376G	125.90	Inf	-Inf	119.65	3	Horizontal	110	2.92	-	32.78	6.40	32.93
AV	5.237G	116.04	Inf	-Inf	109.80	3	Horizontal	110	2.92	-	32.77	6.40	32.93
PK	5.35G	62.38	74.00	-11.62	55.90	3	Horizontal	110	2.92	-	33.00	6.40	32.92
AV	5.3546G	49.64	54.00	-4.36	43.14	3	Horizontal	110	2.92	-	33.02	6.40	32.92

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TnomVnom

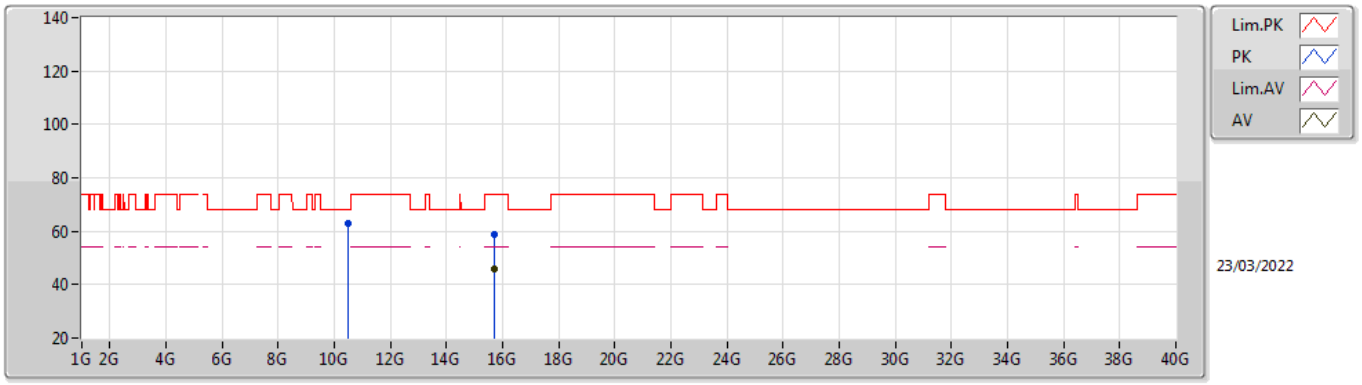


EUT Z_4TX
Setting 105
02-B-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.48102G	56.98	68.20	-11.22	44.13	3	Vertical	278	1.67	-	38.40	7.49	33.04
PK	15.72156G	61.95	74.00	-12.05	48.09	3	Vertical	102	1.92	-	37.40	9.87	33.41
AV	15.72168G	49.79	54.00	-4.21	35.93	3	Vertical	102	1.92	-	37.40	9.87	33.41

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TnomVnom

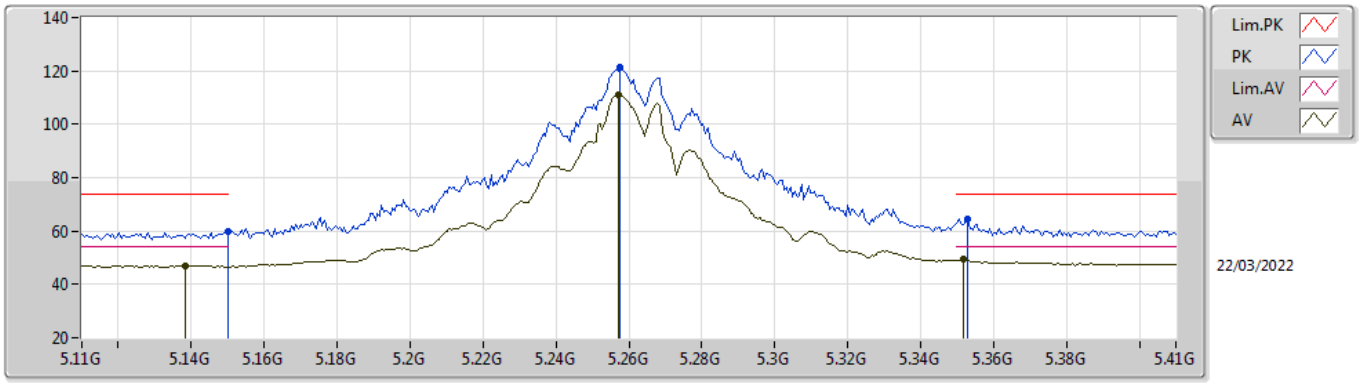


EUT Z_4TX
Setting 105
02-B-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.47754G	63.09	68.20	-5.11	50.24	3	Horizontal	344	2.26	-	38.40	7.49	33.04
PK	15.72372G	58.92	74.00	-15.08	45.05	3	Horizontal	0	1.80	-	37.40	9.88	33.41
AV	15.72144G	46.09	54.00	-7.91	32.23	3	Horizontal	0	1.80	-	37.40	9.87	33.41

802.11a_Nss1,(6Mbps)_4TX

5260MHz_TnomVnom

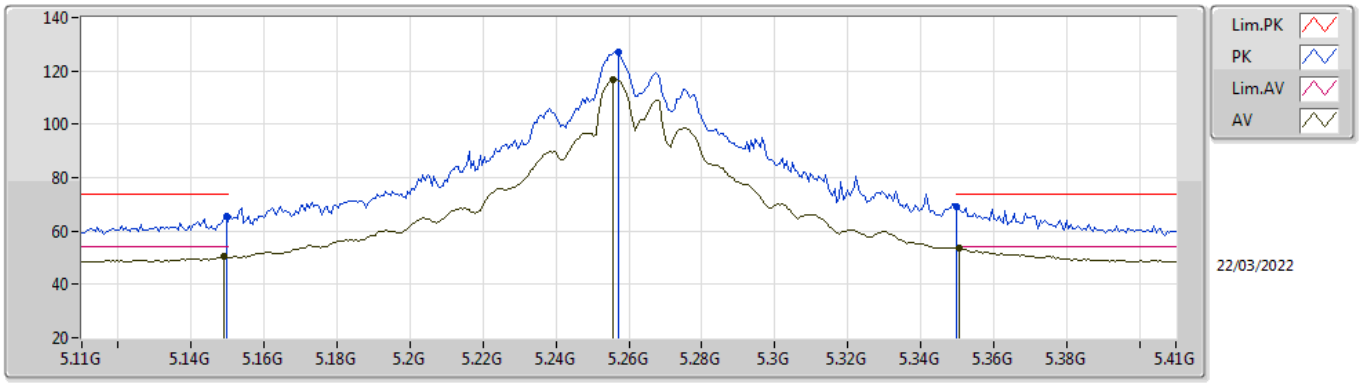


EUT Z_4TX
Setting 105
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.15G	59.95	74.00	-14.05	53.82	3	Vertical	286	2.96	-	32.70	6.37	32.94
AV	5.1382G	47.05	54.00	-6.95	40.90	3	Vertical	286	2.96	-	32.72	6.37	32.94
PK	5.2576G	121.22	Inf	-Inf	114.93	3	Vertical	286	2.96	-	32.82	6.40	32.93
AV	5.257G	110.83	Inf	-Inf	104.55	3	Vertical	286	2.96	-	32.81	6.40	32.93
PK	5.353G	64.38	74.00	-9.62	57.89	3	Vertical	286	2.96	-	33.01	6.40	32.92
AV	5.3518G	49.30	54.00	-4.70	42.81	3	Vertical	286	2.96	-	33.01	6.40	32.92

802.11a_Nss1,(6Mbps)_4TX

5260MHz_TnomVnom

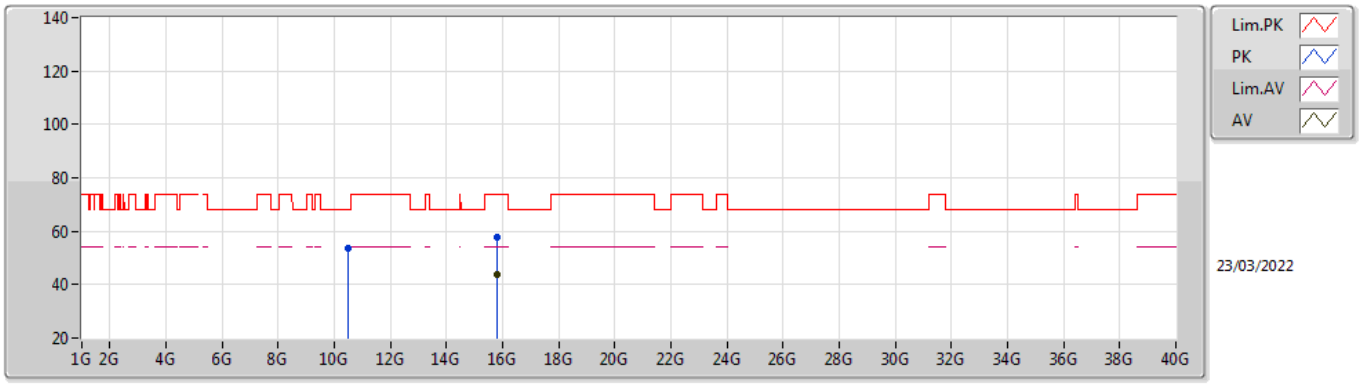


EUT Z_4TX
Setting 105
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1496G	65.33	74.00	-8.67	59.20	3	Horizontal	114	2.89	-	32.70	6.37	32.94
AV	5.149G	50.45	54.00	-3.55	44.32	3	Horizontal	114	2.89	-	32.70	6.37	32.94
PK	5.257G	127.13	Inf	-Inf	120.85	3	Horizontal	114	2.89	-	32.81	6.40	32.93
AV	5.2558G	116.89	Inf	-Inf	110.61	3	Horizontal	114	2.89	-	32.81	6.40	32.93
PK	5.35G	68.97	74.00	-5.03	62.49	3	Horizontal	114	2.89	-	33.00	6.40	32.92
AV	5.3506G	53.52	54.00	-0.48	47.04	3	Horizontal	114	2.89	-	33.00	6.40	32.92

802.11a_Nss1,(6Mbps)_4TX

5260MHz_TnomVnom

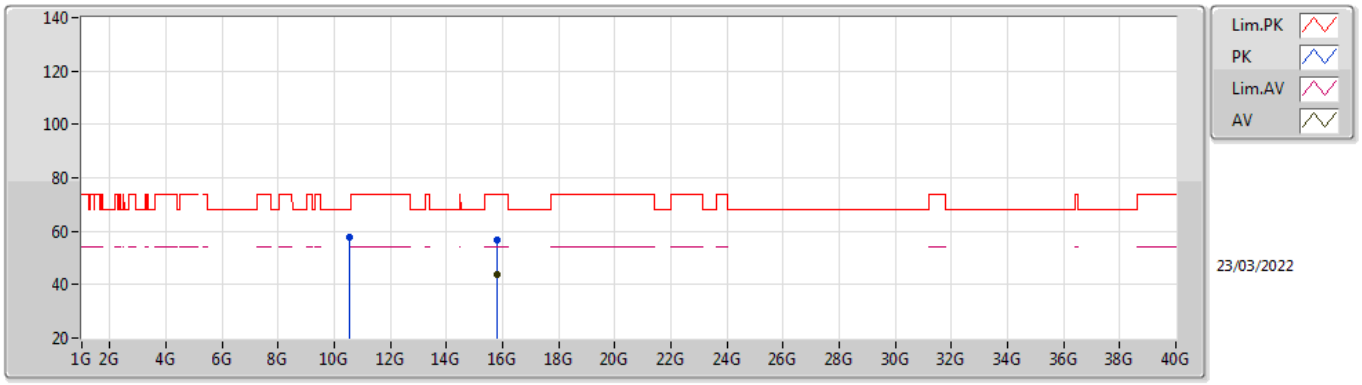


EUT Z_4TX
Setting 105
02-B-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.51472G	53.75	68.20	-14.45	40.89	3	Vertical	95	1.30	-	38.41	7.51	33.06
PK	15.78342G	57.56	74.00	-16.44	43.74	3	Vertical	106	1.26	-	37.40	9.90	33.48
AV	15.78546G	43.85	54.00	-10.15	30.04	3	Vertical	106	1.26	-	37.40	9.90	33.49

802.11a_Nss1,(6Mbps)_4TX

5260MHz_TnomVnom

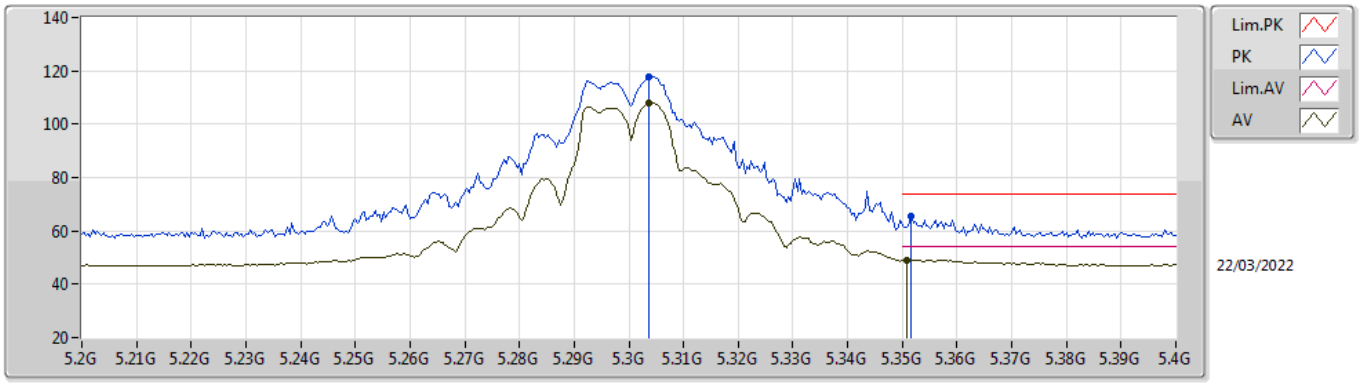


EUT Z_4TX
Setting 105
02-B-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.51916G	57.55	68.20	-10.65	44.68	3	Horizontal	33	2.03	-	38.42	7.51	33.06
PK	15.78564G	56.77	74.00	-17.23	42.96	3	Horizontal	102	1.80	-	37.40	9.90	33.49
AV	15.78402G	43.77	54.00	-10.23	29.96	3	Horizontal	102	1.80	-	37.40	9.90	33.49

802.11a_Nss1,(6Mbps)_4TX

5300MHz_TnomVnom

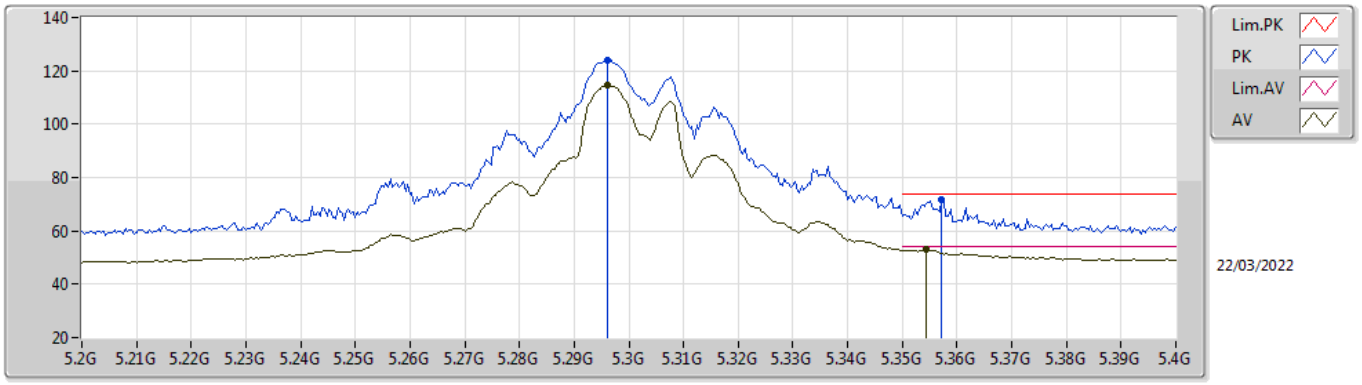


EUT Z_4TX
Setting 95
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.3036G	117.57	Inf	-Inf	111.18	3	Vertical	257	2.75	-	32.91	6.40	32.92
AV	5.3036G	108.03	Inf	-Inf	101.64	3	Vertical	257	2.75	-	32.91	6.40	32.92
PK	5.3516G	65.28	74.00	-8.72	58.79	3	Vertical	257	2.75	-	33.01	6.40	32.92
AV	5.3508G	49.20	54.00	-4.80	42.72	3	Vertical	257	2.75	-	33.00	6.40	32.92

802.11a_Nss1,(6Mbps)_4TX

5300MHz_TnomVnom

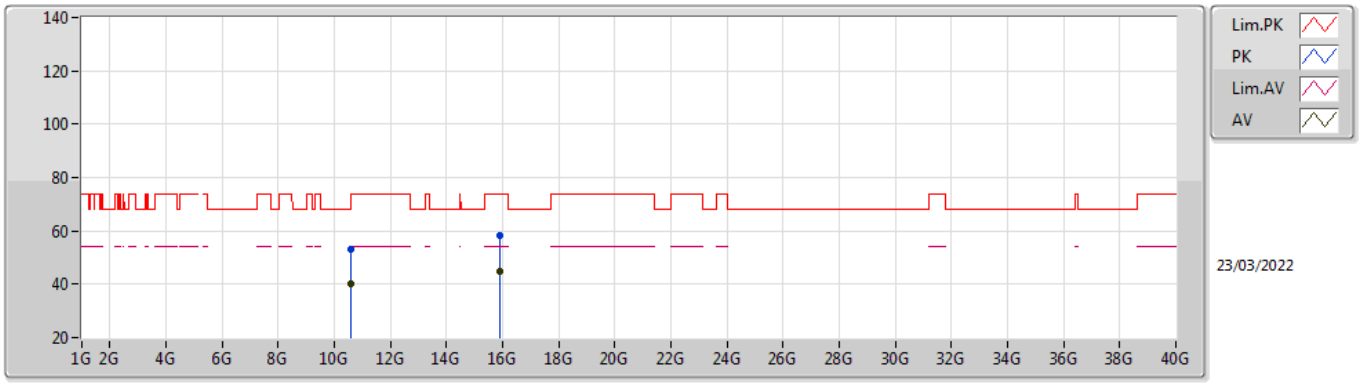


EUT Z_4TX
Setting 95
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.296G	124.03	Inf	-Inf	117.66	3	Horizontal	112	2.83	-	32.89	6.40	32.92
AV	5.296G	114.79	Inf	-Inf	108.42	3	Horizontal	112	2.83	-	32.89	6.40	32.92
PK	5.3572G	71.47	74.00	-2.53	64.96	3	Horizontal	112	2.83	-	33.03	6.40	32.92
AV	5.3544G	52.99	54.00	-1.01	46.49	3	Horizontal	112	2.83	-	33.02	6.40	32.92

802.11a_Nss1,(6Mbps)_4TX

5300MHz_TnomVnom

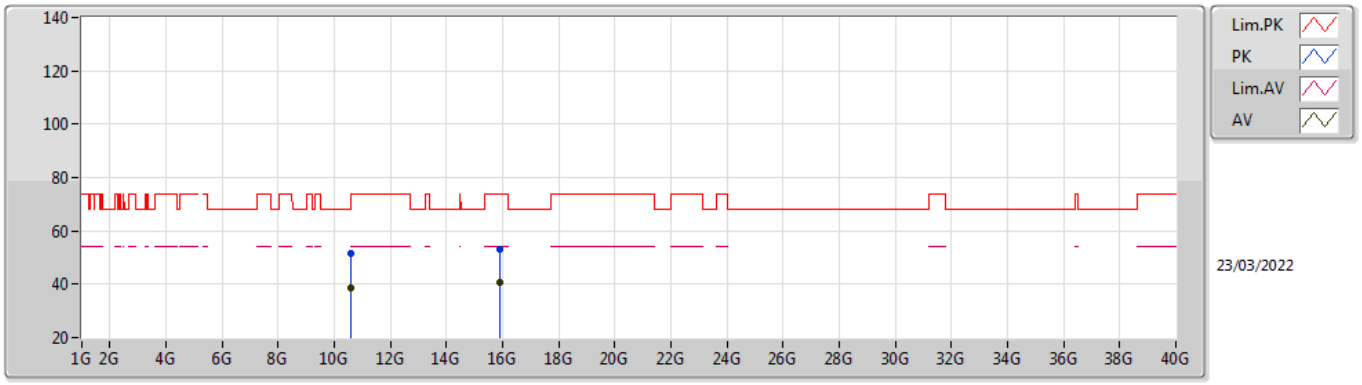


EUT Z_4TX
Setting 95
02-B-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.61221G	52.95	74.00	-21.05	38.65	3	Vertical	24	1.58	-	38.60	8.65	32.95
AV	10.60444G	39.93	54.00	-14.07	25.64	3	Vertical	24	1.58	-	38.60	8.65	32.96
PK	15.8952G	58.07	74.00	-15.93	41.96	3	Vertical	99	1.06	-	38.40	10.47	32.76
AV	15.89748G	44.93	54.00	-9.07	28.82	3	Vertical	99	1.06	-	38.40	10.47	32.76

802.11a_Nss1,(6Mbps)_4TX

5300MHz_TnomVnom

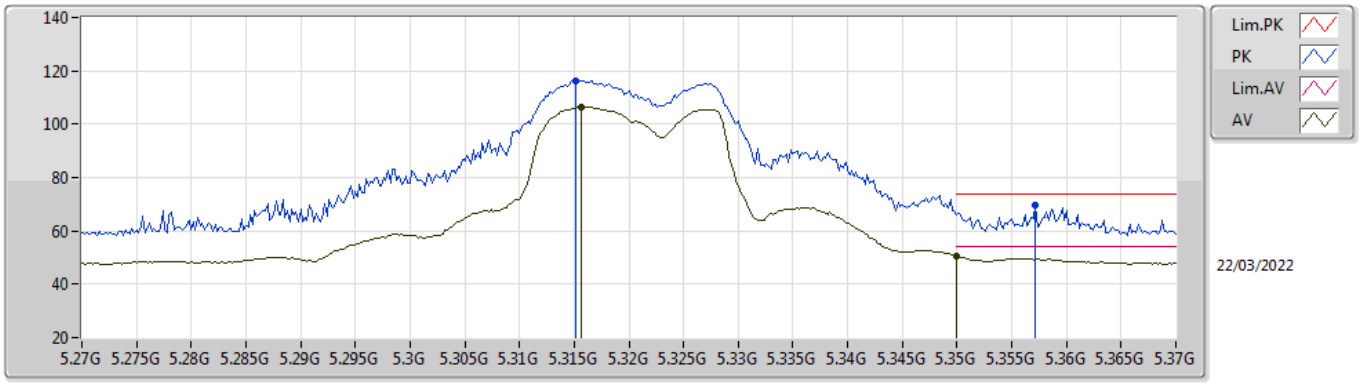


EUT Z_4TX
Setting 95
02-B-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.60117G	51.65	74.00	-22.35	38.70	3	Horizontal	358	2.04	-	38.50	7.54	33.09
AV	10.60324G	38.52	54.00	-15.48	25.58	3	Horizontal	358	2.04	-	38.50	7.54	33.10
PK	15.89724G	53.34	74.00	-20.66	39.51	3	Horizontal	58	1.80	-	37.50	9.95	33.62
AV	15.89826G	40.56	54.00	-13.44	26.73	3	Horizontal	58	1.80	-	37.50	9.95	33.62

802.11a_Nss1,(6Mbps)_4TX

5320MHz_TnomVnom

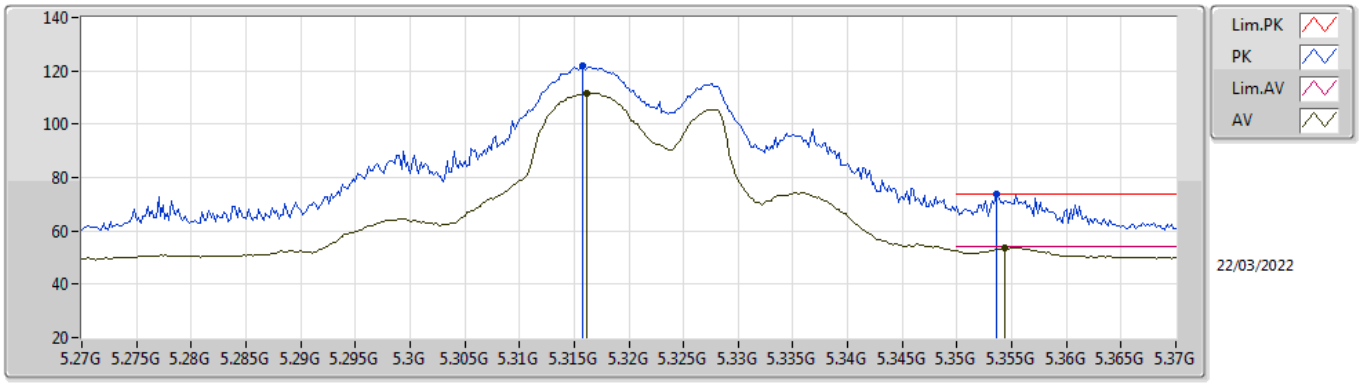


EUT Z_4TX
Setting 84
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.3152G	116.25	Inf	-Inf	109.84	3	Vertical	277	2.74	-	32.93	6.40	32.92
AV	5.3156G	106.58	Inf	-Inf	100.17	3	Vertical	277	2.74	-	32.93	6.40	32.92
PK	5.3572G	69.80	74.00	-4.20	63.29	3	Vertical	277	2.74	-	33.03	6.40	32.92
AV	5.35G	50.62	54.00	-3.38	44.14	3	Vertical	277	2.74	-	33.00	6.40	32.92

802.11a_Nss1,(6Mbps)_4TX

5320MHz_TnomVnom

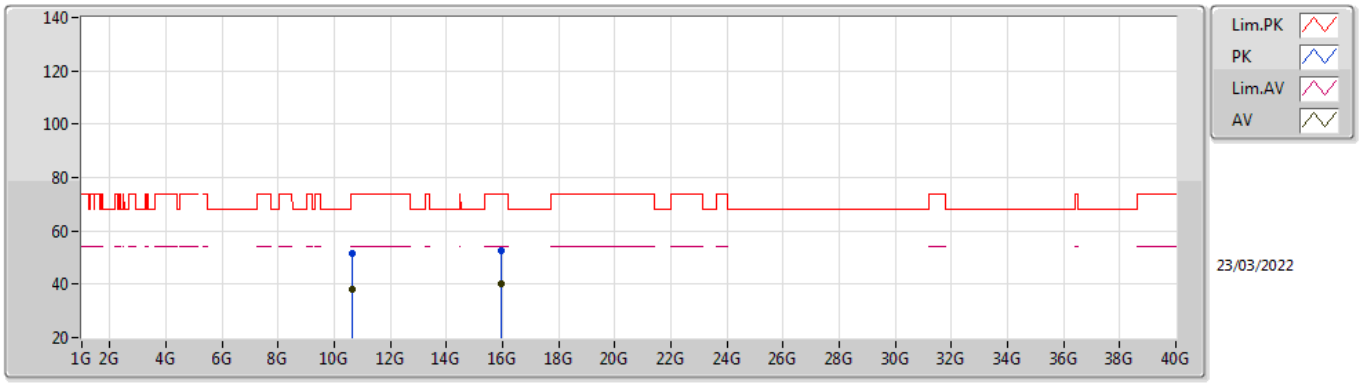


EUT Z_4TX
Setting 84
01-A-G-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.3158G	121.98	Inf	-Inf	115.57	3	Horizontal	111	2.80	-	32.93	6.40	32.92
AV	5.3162G	111.80	Inf	-Inf	105.39	3	Horizontal	111	2.80	-	32.93	6.40	32.92
PK	5.3536G	73.69	74.00	-0.31	67.20	3	Horizontal	111	2.80	-	33.01	6.40	32.92
AV	5.3544G	53.84	54.00	-0.16	47.34	3	Horizontal	111	2.80	-	33.02	6.40	32.92

802.11a_Nss1,(6Mbps)_4TX

5320MHz_TnomVnom

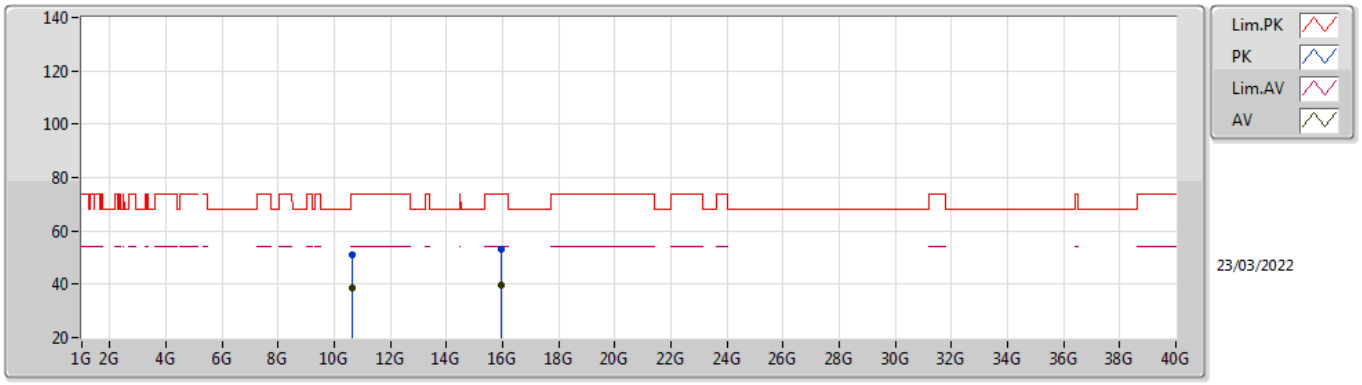


EUT Z_4TX
Setting 84
02-B-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.65458G	51.30	74.00	-22.70	38.41	3	Vertical	224	2.19	-	38.45	7.56	33.12
AV	10.63562G	38.30	54.00	-15.70	25.40	3	Vertical	224	2.19	-	38.46	7.55	33.11
PK	15.96054G	52.61	74.00	-21.39	38.88	3	Vertical	106	1.79	-	37.44	9.98	33.69
AV	15.9564G	40.08	54.00	-13.92	26.35	3	Vertical	106	1.79	-	37.44	9.98	33.69

802.11a_Nss1,(6Mbps)_4TX

5320MHz_TnomVnom

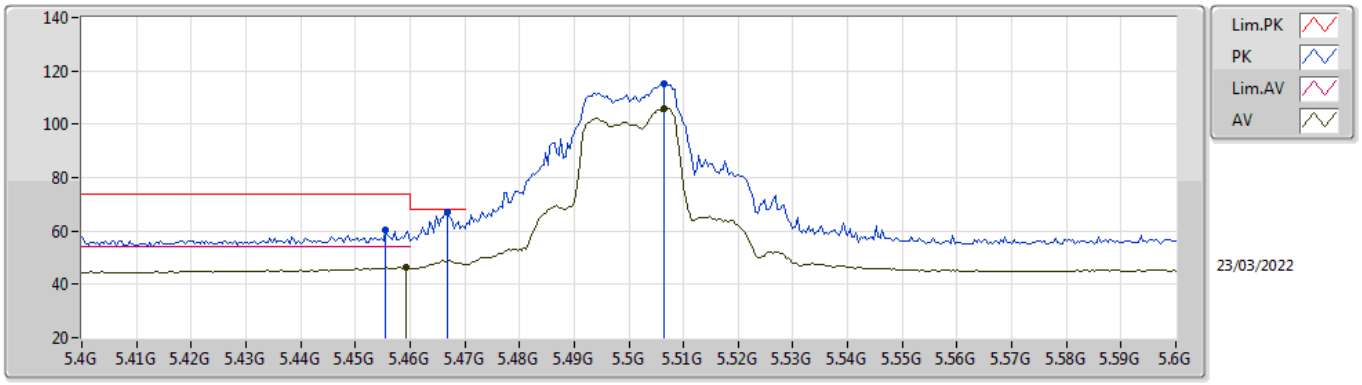


EUT Z_4TX
Setting 84
02-B-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.64822G	51.25	74.00	-22.75	38.36	3	Horizontal	67	1.97	-	38.45	7.56	33.12
AV	10.6409G	38.44	54.00	-15.56	25.53	3	Horizontal	67	1.97	-	38.46	7.56	33.11
PK	15.9555G	52.88	74.00	-21.12	39.15	3	Horizontal	151	1.80	-	37.44	9.98	33.69
AV	15.94812G	39.51	54.00	-14.49	25.76	3	Horizontal	151	1.80	-	37.45	9.98	33.68

802.11a_Nss1,(6Mbps)_4TX

5500MHz_TnomVnom

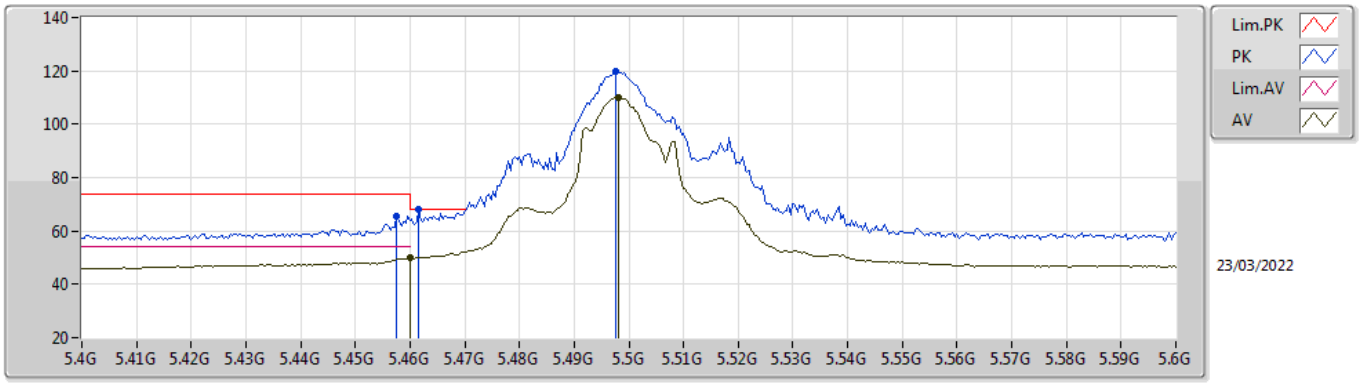


EUT Z_4TX
Setting 85
02-B-R-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.4556G	60.38	74.00	-13.62	53.15	3	Vertical	91	2.66	-	33.90	5.46	32.13
AV	5.4592G	46.42	54.00	-7.58	39.19	3	Vertical	91	2.66	-	33.90	5.46	32.13
PK	5.4668G	67.23	68.20	-0.97	59.99	3	Vertical	91	2.66	-	33.90	5.47	32.13
PK	5.5064G	114.96	Inf	-Inf	107.68	3	Vertical	91	2.66	-	33.90	5.51	32.13
AV	5.5064G	105.99	Inf	-Inf	98.71	3	Vertical	91	2.66	-	33.90	5.51	32.13

802.11a_Nss1,(6Mbps)_4TX

5500MHz_TnomVnom

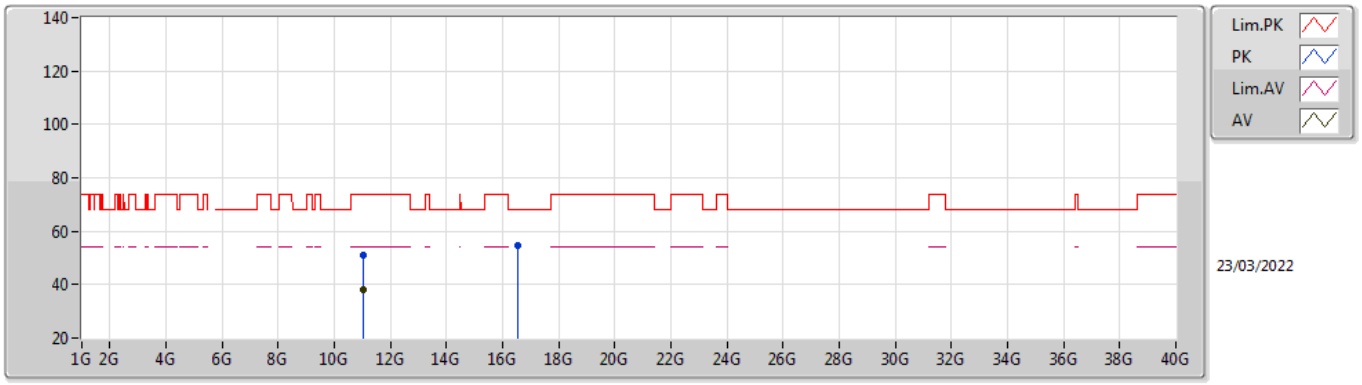


EUT Z_4TX
Setting 85
02-B-R-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.4576G	65.59	74.00	-8.41	58.36	3	Horizontal	266	1.00	-	33.90	5.46	32.13
PK	5.4616G	68.09	68.20	-0.11	60.86	3	Horizontal	266	1.00	-	33.90	5.46	32.13
AV	5.46G	49.78	54.00	-4.22	42.55	3	Horizontal	266	1.00	-	33.90	5.46	32.13
PK	5.4976G	120.06	Inf	-Inf	112.79	3	Horizontal	266	1.00	-	33.90	5.50	32.13
AV	5.498G	110.14	Inf	-Inf	102.87	3	Horizontal	266	1.00	-	33.90	5.50	32.13

802.11a_Nss1,(6Mbps)_4TX

5500MHz_TnomVnom

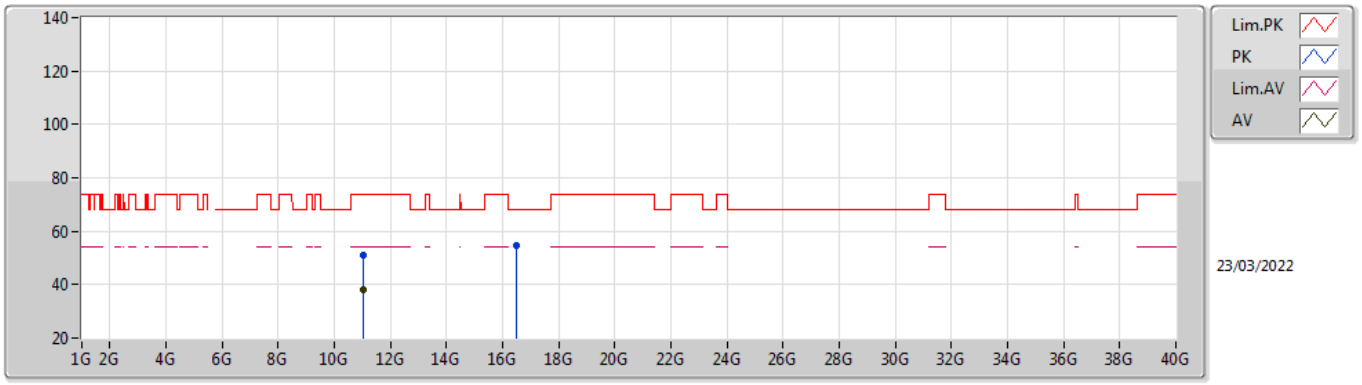


EUT Z_4TX
Setting 85
02-B-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.0174G	51.23	74.00	-22.77	38.27	3	Vertical	132	2.85	-	38.52	7.71	33.27
AV	11.0181G	38.15	54.00	-15.85	25.19	3	Vertical	132	2.85	-	38.52	7.71	33.27
PK	16.517G	54.49	68.20	-13.71	38.47	3	Vertical	324	1.62	-	38.85	10.26	33.09

802.11a_Nss1,(6Mbps)_4TX

5500MHz_TnomVnom

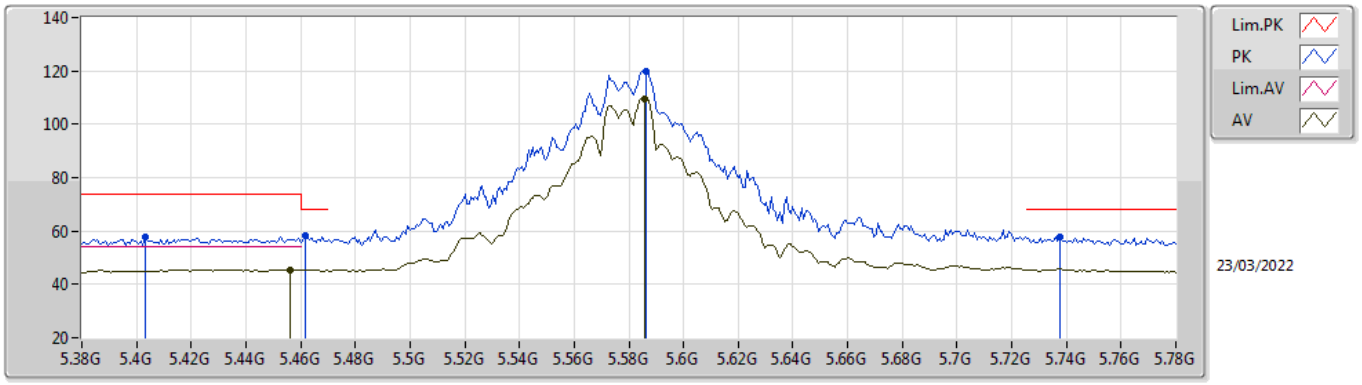


EUT Z_4TX
Setting 85
02-B-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.0175G	51.19	74.00	-22.81	38.23	3	Horizontal	356	1.94	-	38.52	7.71	33.27
AV	11.0181G	38.21	54.00	-15.79	25.25	3	Horizontal	356	1.94	-	38.52	7.71	33.27
PK	16.4818G	54.50	68.20	-13.70	38.74	3	Horizontal	170	1.93	-	38.61	10.24	33.09

802.11a_Nss1,(6Mbps)_4TX

5580MHz_TnomVnom

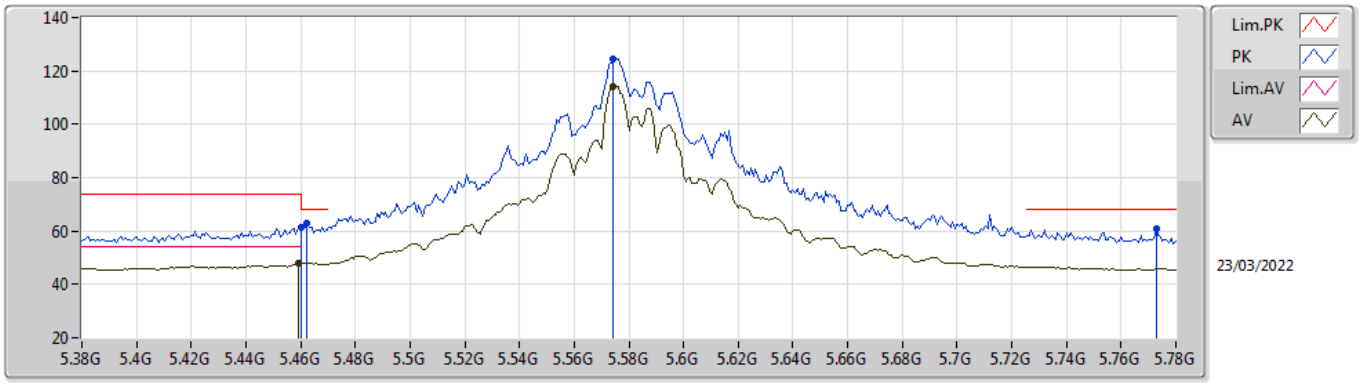


EUT Z_4TX
Setting 108
02-B-R-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.4032G	57.81	74.00	-16.19	50.74	3	Vertical	94	2.60	-	33.81	5.40	32.14
PK	5.4616G	58.05	68.20	-10.15	50.82	3	Vertical	94	2.60	-	33.90	5.46	32.13
AV	5.456G	45.57	54.00	-8.43	38.34	3	Vertical	94	2.60	-	33.90	5.46	32.13
PK	5.5864G	119.87	Inf	-Inf	112.52	3	Vertical	94	2.60	-	33.90	5.59	32.14
AV	5.5856G	109.74	Inf	-Inf	102.39	3	Vertical	94	2.60	-	33.90	5.59	32.14
PK	5.7376G	57.83	68.20	-10.37	50.59	3	Vertical	94	2.60	-	33.78	5.60	32.14

802.11a_Nss1,(6Mbps)_4TX

5580MHz_TnomVnom

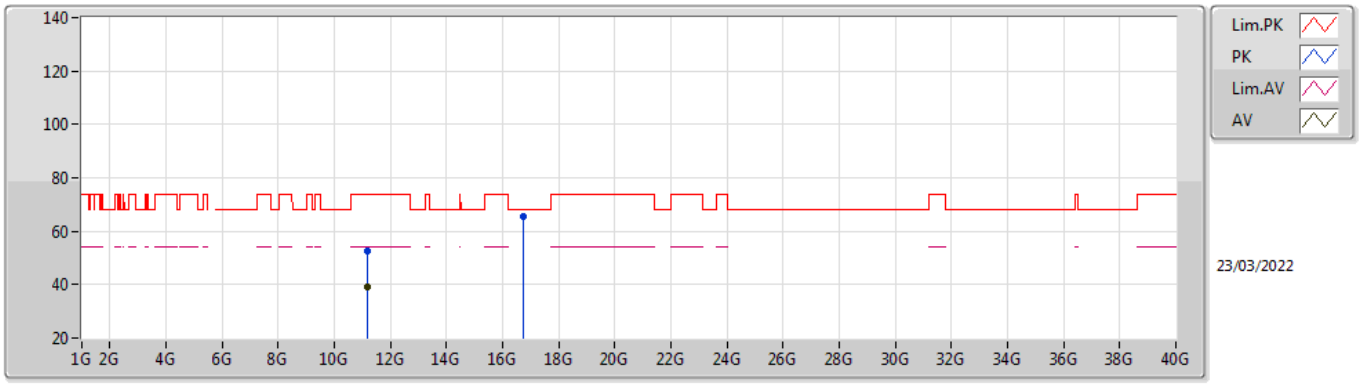


EUT Z_4TX
Setting 108
02-B-R-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.46G	61.54	74.00	-12.46	54.31	3	Horizontal	254	1.00	-	33.90	5.46	32.13
AV	5.4592G	48.01	54.00	-5.99	40.78	3	Horizontal	254	1.00	-	33.90	5.46	32.13
PK	5.4624G	63.10	68.20	-5.10	55.87	3	Horizontal	254	1.00	-	33.90	5.46	32.13
PK	5.5744G	124.64	Inf	-Inf	117.30	3	Horizontal	254	1.00	-	33.90	5.57	32.13
AV	5.5744G	114.22	Inf	-Inf	106.88	3	Horizontal	254	1.00	-	33.90	5.57	32.13
PK	5.7728G	61.10	68.20	-7.10	53.90	3	Horizontal	254	1.00	-	33.75	5.60	32.15

802.11a_Nss1,(6Mbps)_4TX

5580MHz_TnomVnom

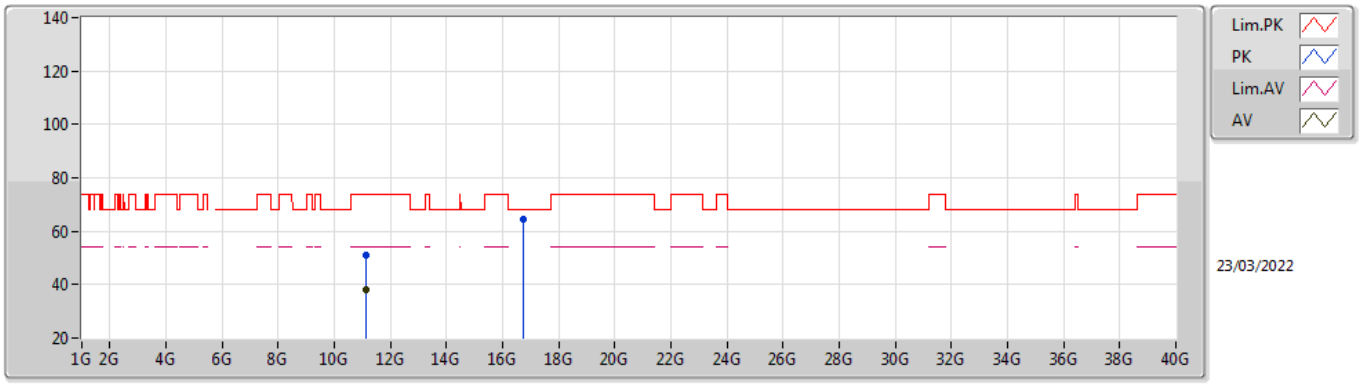


EUT Z_4TX
Setting 108
02-B-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.1612G	52.68	74.00	-21.32	39.51	3	Vertical	271	1.04	-	38.66	7.76	33.25
AV	11.1592G	39.33	54.00	-14.67	26.16	3	Vertical	271	1.04	-	38.66	7.76	33.25
PK	16.7387G	65.77	68.20	-2.43	48.76	3	Vertical	110	1.74	-	39.93	10.37	33.29

802.11a_Nss1,(6Mbps)_4TX

5580MHz_TnomVnom

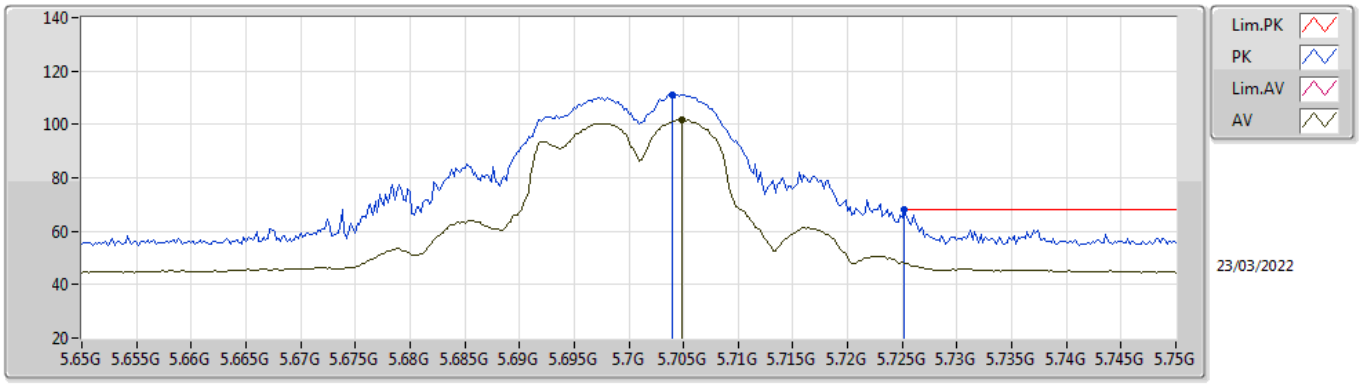


EUT Z_4TX
Setting 108
02-B-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.1463G	50.92	74.00	-23.08	37.77	3	Horizontal	220	2.39	-	38.65	7.76	33.26
AV	11.1436G	38.16	54.00	-15.84	25.02	3	Horizontal	220	2.39	-	38.64	7.76	33.26
PK	16.7526G	64.29	68.20	-3.91	47.20	3	Horizontal	76	2.91	-	40.02	10.38	33.31

802.11a_Nss1,(6Mbps)_4TX

5700MHz_TnomVnom

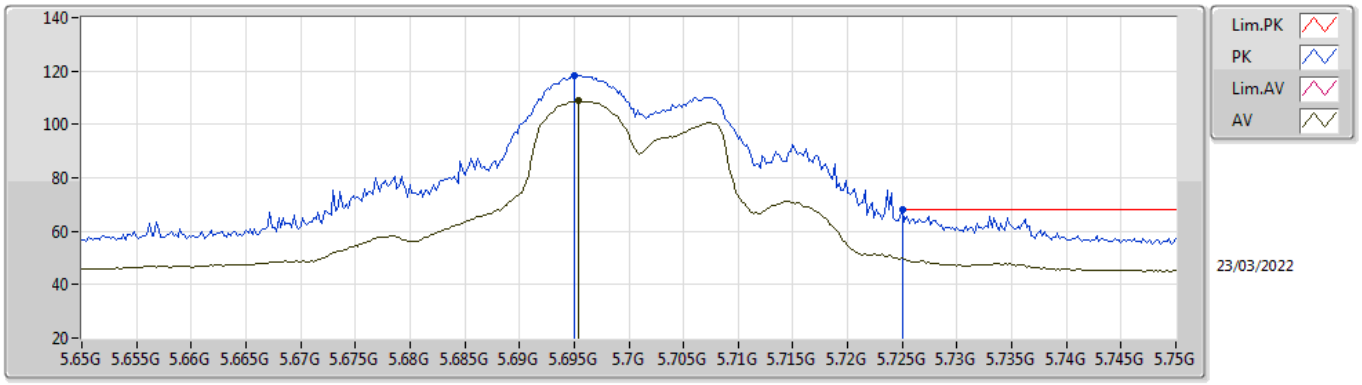


EUT Z_4TX
Setting 80
02-B-R-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.704G	111.07	Inf	-Inf	103.90	3	Vertical	360	2.60	-	33.71	5.60	32.14
AV	5.7048G	101.66	Inf	-Inf	94.49	3	Vertical	360	2.60	-	33.71	5.60	32.14
PK	5.7252G	68.18	68.20	-0.02	60.97	3	Vertical	360	2.60	-	33.75	5.60	32.14

802.11a_Nss1,(6Mbps)_4TX

5700MHz_TnomVnom

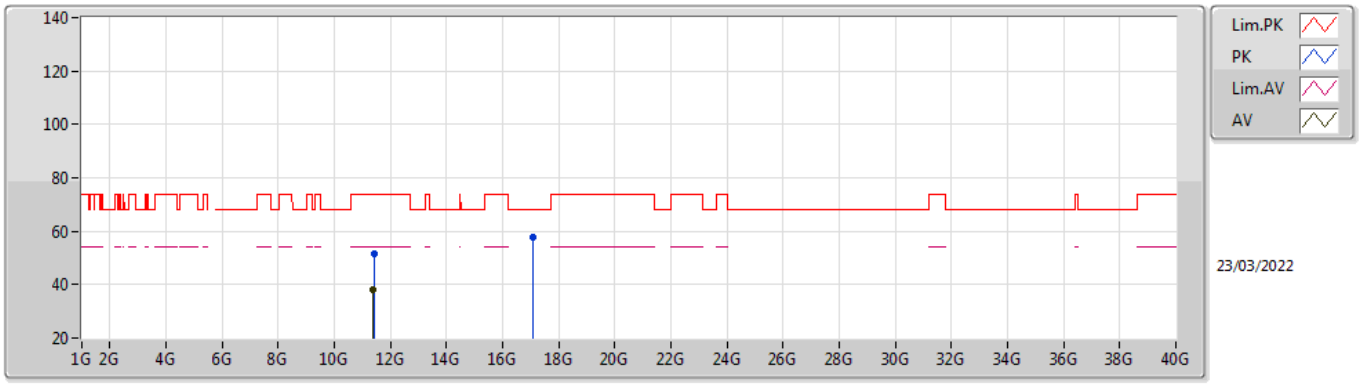


EUT Z_4TX
Setting 80
02-B-R-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.695G	118.25	Inf	-Inf	111.08	3	Horizontal	261	2.81	-	33.71	5.60	32.14
AV	5.6954G	108.77	Inf	-Inf	101.60	3	Horizontal	261	2.81	-	33.71	5.60	32.14
PK	5.725G	68.13	68.20	-0.07	60.92	3	Horizontal	261	2.81	-	33.75	5.60	32.14

802.11a_Nss1,(6Mbps)_4TX

5700MHz_TnomVnom

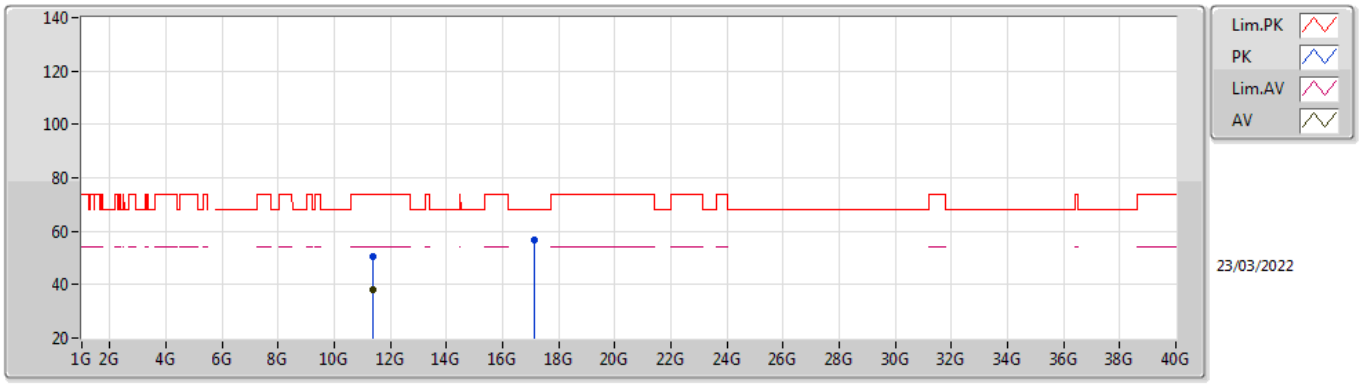


EUT Z_4TX
Setting 80
02-B-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4248G	51.62	74.00	-22.38	38.13	3	Vertical	321	2.32	-	38.85	7.87	33.23
AV	11.3783G	38.25	54.00	-15.75	24.85	3	Vertical	321	2.32	-	38.78	7.85	33.23
PK	17.0798G	57.58	68.20	-10.62	39.21	3	Vertical	138	1.16	-	41.28	10.54	33.45

802.11a_Nss1,(6Mbps)_4TX

5700MHz_TnomVnom

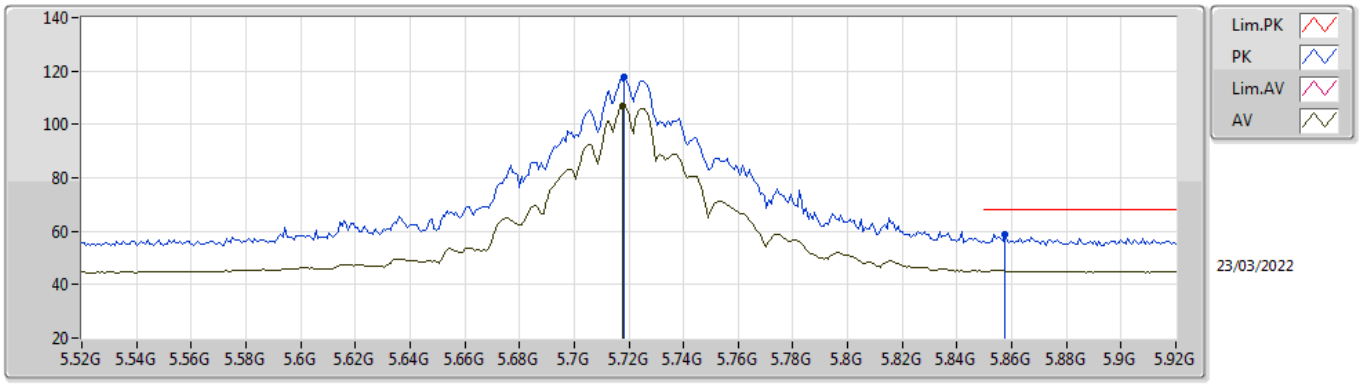


EUT Z_4TX
Setting 80
02-B-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.3786G	50.45	74.00	-23.55	37.05	3	Horizontal	102	2.15	-	38.78	7.85	33.23
AV	11.3825G	38.21	54.00	-15.79	24.81	3	Horizontal	102	2.15	-	38.78	7.85	33.23
PK	17.1241G	56.96	68.20	-11.24	38.33	3	Horizontal	53	2.19	-	41.47	10.56	33.40

802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TnomVnom

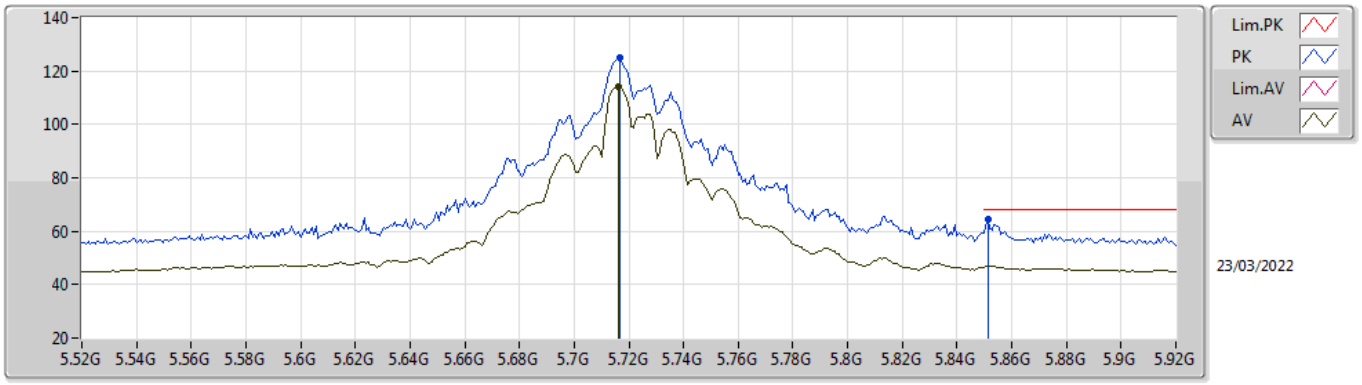


EUT Z_4TX
Setting 108
02-B-R-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.7184G	117.63	Inf	-Inf	110.43	3	Vertical	360	2.60	-	33.74	5.60	32.14
AV	5.7176G	107.05	Inf	-Inf	99.85	3	Vertical	360	2.60	-	33.74	5.60	32.14
PK	5.8576G	58.88	68.20	-9.32	51.54	3	Vertical	360	2.60	-	33.83	5.66	32.15

802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TnomVnom

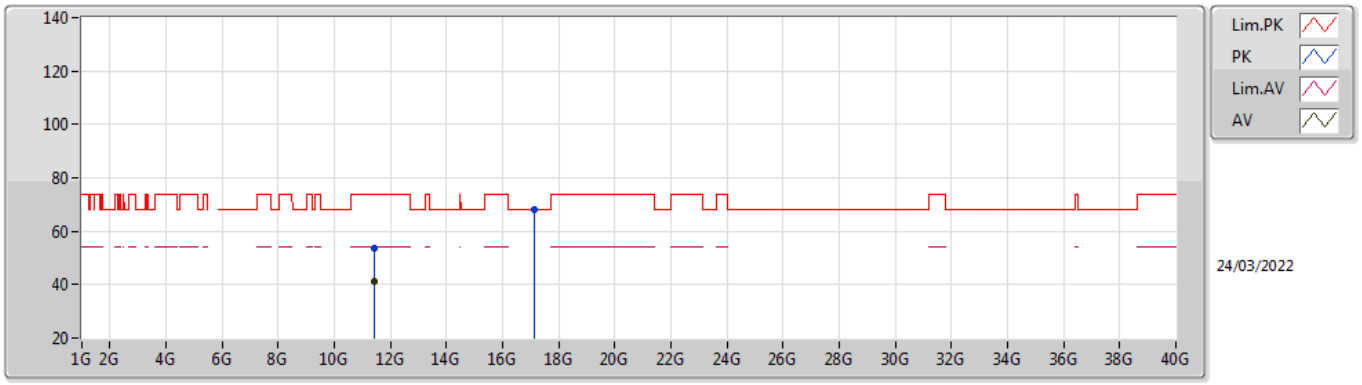


EUT Z_4TX
Setting 108
02-B-R-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.7168G	124.90	Inf	-Inf	117.71	3	Horizontal	261	2.78	-	33.73	5.60	32.14
AV	5.716G	114.19	Inf	-Inf	107.00	3	Horizontal	261	2.78	-	33.73	5.60	32.14
PK	5.8512G	64.68	68.20	-3.52	57.38	3	Horizontal	261	2.78	-	33.80	5.65	32.15

802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TnomVnom

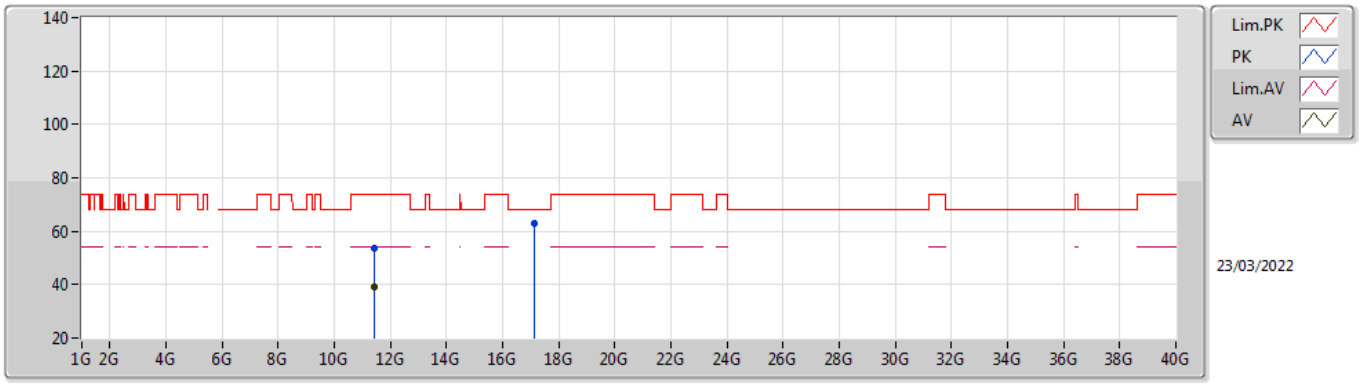


EUT Z_4TX
Setting 108
02-B-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4381G	53.56	74.00	-20.44	40.03	3	Vertical	0	2.57	-	38.88	7.88	33.23
AV	11.4404G	41.11	54.00	-12.89	27.58	3	Vertical	0	2.57	-	38.88	7.88	33.23
PK	17.1554G	67.95	68.20	-0.25	49.04	3	Vertical	248	2.03	-	41.69	10.58	33.36

802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TnomVnom

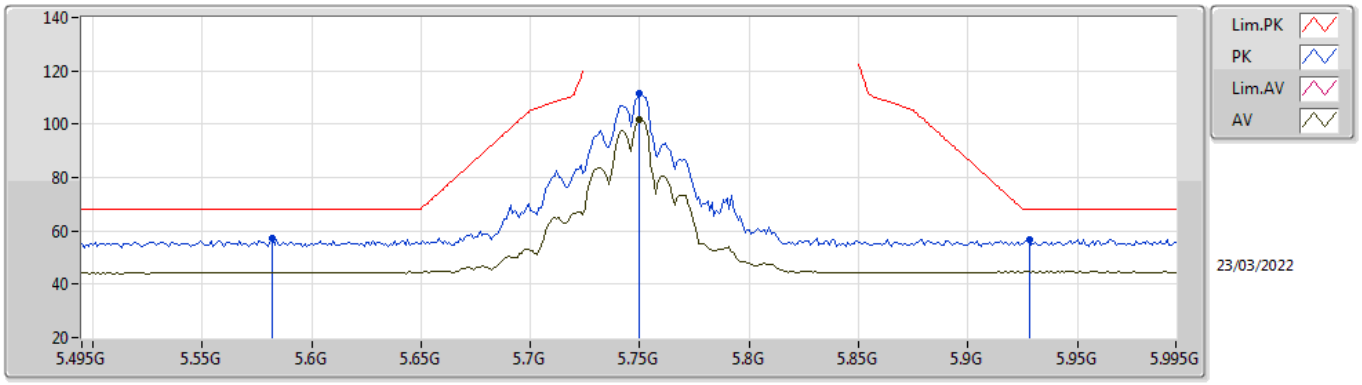


EUT Z_4TX
Setting 108
02-B-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4404G	53.52	74.00	-20.48	39.99	3	Horizontal	190	1.89	-	38.88	7.88	33.23
AV	11.4392G	39.02	54.00	-14.98	25.49	3	Horizontal	190	1.89	-	38.88	7.88	33.23
PK	17.1548G	62.91	68.20	-5.29	44.01	3	Horizontal	310	2.92	-	41.68	10.58	33.36

802.11a_Nss1,(6Mbps)_4TX

5745MHz_TnomVnom

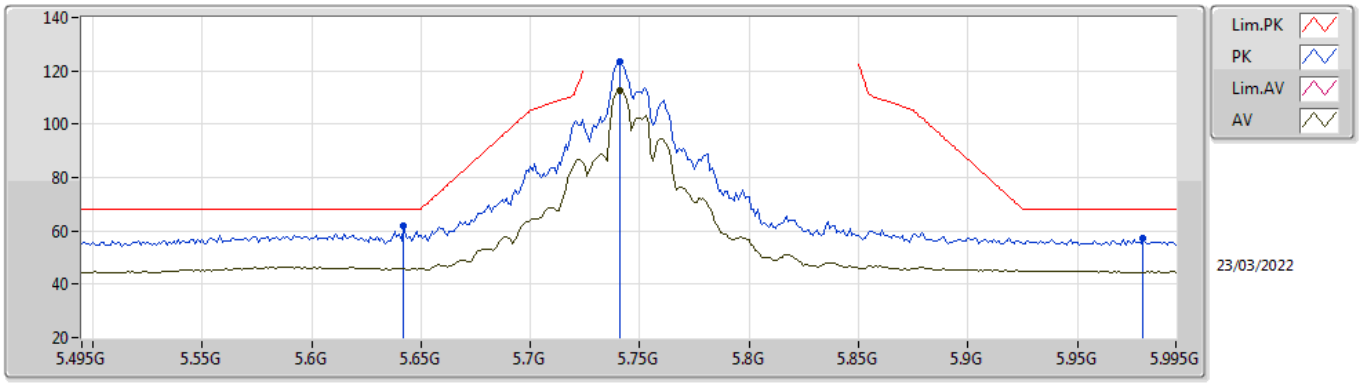


EUT Z_4TX
Setting 108
02-B-R-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.582G	57.01	68.20	-11.19	49.66	3	Vertical	128	1.80	-	33.90	5.58	32.13
PK	5.75G	111.54	Inf	-Inf	104.28	3	Vertical	128	1.80	-	33.80	5.60	32.14
AV	5.75G	101.57	Inf	-Inf	94.31	3	Vertical	128	1.80	-	33.80	5.60	32.14
PK	5.928G	56.88	68.20	-11.32	49.25	3	Vertical	128	1.80	-	34.06	5.73	32.16

802.11a_Nss1,(6Mbps)_4TX

5745MHz_TnomVnom

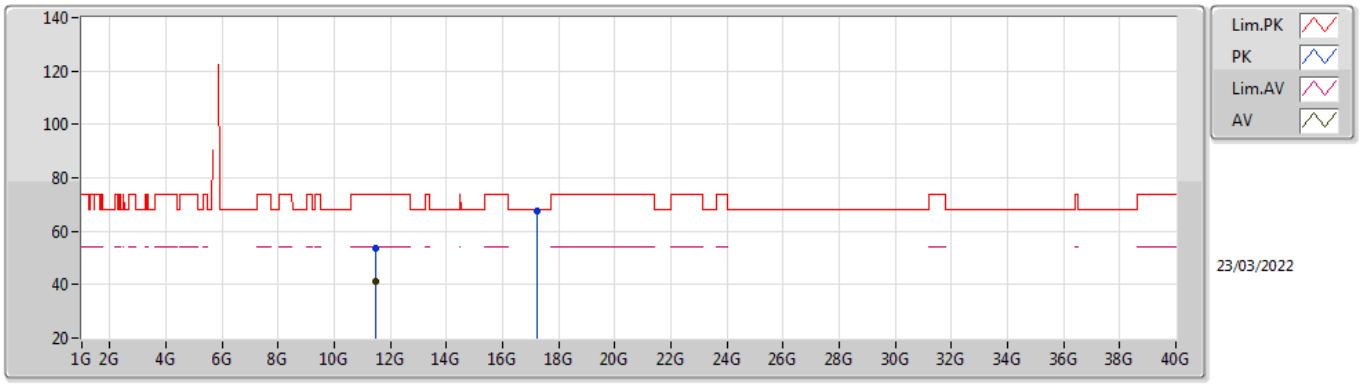


EUT Z_4TX
Setting 108
02-B-R-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.642G	61.82	68.20	-6.38	54.54	3	Horizontal	262	2.77	-	33.82	5.60	32.14
PK	5.741G	123.27	Inf	-Inf	116.03	3	Horizontal	262	2.77	-	33.78	5.60	32.14
AV	5.741G	112.73	Inf	-Inf	105.49	3	Horizontal	262	2.77	-	33.78	5.60	32.14
PK	5.98G	57.42	68.20	-10.78	49.70	3	Horizontal	262	2.77	-	34.10	5.78	32.16

802.11a_Nss1,(6Mbps)_4TX

5745MHz_TnomVnom

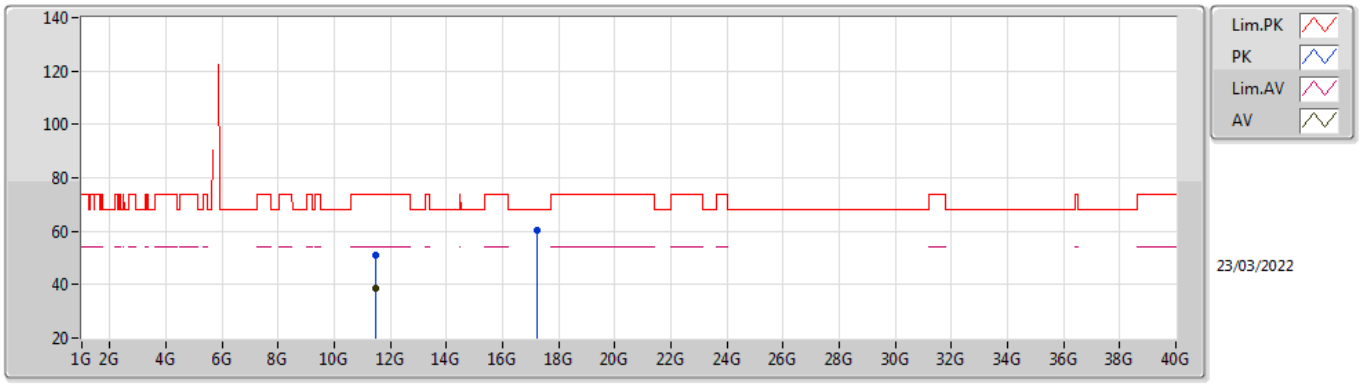


EUT Z_4TX
Setting 108
02-B-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4909G	53.73	74.00	-20.27	40.07	3	Vertical	360	2.74	-	38.98	7.90	33.22
AV	11.4895G	41.12	54.00	-12.88	27.46	3	Vertical	360	2.74	-	38.98	7.90	33.22
PK	17.2306G	67.55	68.20	-0.65	48.12	3	Vertical	251	2.05	-	42.09	10.62	33.28

802.11a_Nss1,(6Mbps)_4TX

5745MHz_TnomVnom

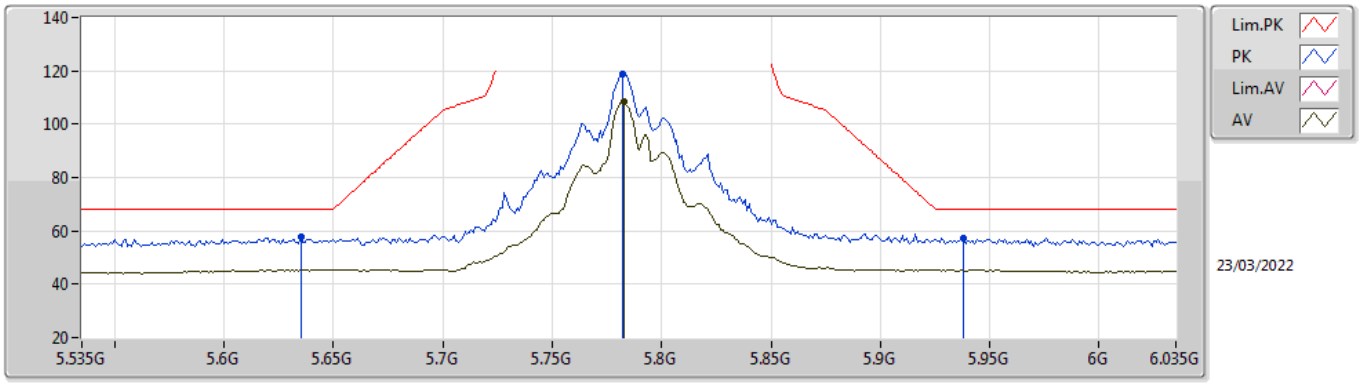


EUT Z_4TX
Setting 108
02-B-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4971G	51.18	74.00	-22.82	37.51	3	Horizontal	130	2.97	-	38.99	7.90	33.22
AV	11.495G	38.48	54.00	-15.52	24.81	3	Horizontal	130	2.97	-	38.99	7.90	33.22
PK	17.2335G	60.32	68.20	-7.88	40.87	3	Horizontal	134	2.92	-	42.10	10.62	33.27

802.11a_Nss1,(6Mbps)_4TX

5785MHz_TnomVnom



EUT Z_4TX
Setting 108
02-B-R-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.635G	57.64	68.20	-10.56	50.35	3	Vertical	68	2.68	-	33.83	5.60	32.14
PK	5.782G	118.63	Inf	-Inf	111.44	3	Vertical	68	2.68	-	33.74	5.60	32.15
AV	5.783G	108.53	Inf	-Inf	101.35	3	Vertical	68	2.68	-	33.73	5.60	32.15
PK	5.938G	57.40	68.20	-10.80	49.74	3	Vertical	68	2.68	-	34.08	5.74	32.16