

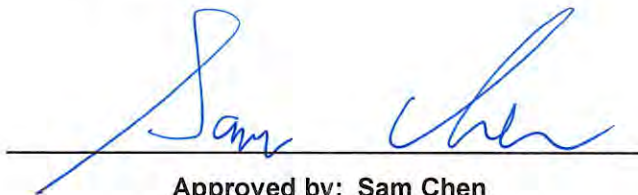


RADIO TEST REPORT

FCC ID : TLZ-XH32X
Equipment : IEEE 802.11 a/b/g/n/ac/ax Wi-Fi + Bluetooth 5.3 Combo SIP Module
Brand Name : AzureWave
Model Name : AW-XH323, AW-XH325, AW-XH327
Applicant : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Manufacturer : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Standard : 47 CFR FCC Part 15.407

The product was received on Dec. 14, 2023, and testing was started from Dec. 16, 2023 and completed on Apr. 11, 2024. 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

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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	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen
Report Producer: Sophia Shiung



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		5500-5700	100-140 [11]
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		5510-5670	102-134 [5]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
5725-5850		5775	155 [1]

For SKU 1:

Band	Mode	BWch (MHz)	Nant
5.15-5.85GHz	802.11a	20	2TX
5.15-5.85GHz	802.11n HT20	20	2TX
5.15-5.85GHz	802.11n HT20-BF	20	2TX
5.15-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.85GHz	802.11ac VHT20-BF	20	2TX
5.15-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.85GHz	802.11ax HEW20-BF	20	2TX
5.15-5.85GHz	802.11n HT40	40	2TX
5.15-5.85GHz	802.11n HT40-BF	40	2TX
5.15-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.85GHz	802.11ac VHT40-BF	40	2TX
5.15-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.85GHz	802.11ax HEW40-BF	40	2TX
5.15-5.85GHz	802.11ac VHT80	80	2TX
5.15-5.85GHz	802.11ac VHT80-BF	80	2TX



Band	Mode	BWch (MHz)	Nant
5.15-5.85GHz	802.11ax HEW80	80	2TX
5.15-5.85GHz	802.11ax HEW80-BF	80	2TX

For SKU 2:

Band	Mode	BWch (MHz)	Nant
5.15-5.85GHz	802.11a	20	1TX
5.15-5.85GHz	802.11n HT20	20	1TX
5.15-5.85GHz	802.11ac VHT20	20	1TX
5.15-5.85GHz	802.11ax HEW20	20	1TX
5.15-5.85GHz	802.11n HT40	40	1TX
5.15-5.85GHz	802.11ac VHT40	40	1TX
5.15-5.85GHz	802.11ax HEW40	40	1TX
5.15-5.85GHz	802.11ac VHT80	80	1TX
5.15-5.85GHz	802.11ax HEW80	80	1TX

Note:

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



1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	ARISTOTLE	RFA-27-JP326MHF4C198	PIFA	I-PEX	Note 1
2					

Note 1:

Ant.	Port		Gain (dBi)		
	WLAN 2.4GHz / 5GHz / 6GHz	Bluetooth	WLAN 2.4GHz	WLAN 5GHz / 6GHz	Bluetooth
1	1	1	3.5	5	3.5
2	2	N/A			

Note 2: The above information was declared by manufacturer.

Note 3: Directional gain information for 2TX/2RX

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left[\sum_{k=1}^{N_{ANT}} g_{j,k} \right]^2}{N_{ANT}} \right]$
BF	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left[\sum_{k=1}^{N_{ANT}} g_{j,k} \right]^2}{N_{ANT}} \right]$	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left[\sum_{k=1}^{N_{ANT}} g_{j,k} \right]^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

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

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$2.4G\ G1 = 3.5\ dBi ; G2 = 3.5\ dBi ;$$

$$5G\ UNII-1\ G1 = 5.00\ dBi ; G2 = 5.00\ dBi ;$$

$$5G\ UNII-2A\ G1 = 5.00\ dBi ; G2 = 5.00\ dBi ;$$

$$5G\ UNII-2C\ G1 = 5.00\ dBi ; G2 = 5.00\ dBi ;$$

$$5G\ UNII-3\ G1 = 5.00\ dBi ; G2 = 5.00\ dBi ;$$

$$2.4G\ DG = 6.51\ dBi$$

$$5G\ UNII-1\ DG = 8.01\ dBi$$

$$5G\ UNII-2A\ DG = 8.01\ dBi$$

$$5G\ UNII-2C\ DG = 8.01\ dBi$$

$$5G\ UNII-3\ DG = 8.01\ dBi$$



Note 4: For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

For IEEE 802.11 b/g/n/VHT/ax (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11a/n/ac/ax (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

For IEEE 802.11a/n/ac/ax (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11ax (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

For IEEE 802.11ax (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For Bluetooth function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

For SKU 1:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss 1,(6D)	0.931	0.31	1.43m	1k
802.11ax HEW20_Nss 1,(M0)	0.915	0.39	1.046m	1k
802.11ax HEW20-BF_Nss 1,(M0)	0.915	0.39	1.046m	1k
802.11ax HEW40_Nss 1,(M0)	0.849	0.71	553.125u	3k
802.11ax HEW40-BF_Nss 1,(M0)	0.849	0.71	553.125u	3k
802.11ax HEW80_Nss 1,(M0)	0.752	1.24	297.5u	10k
802.11ax HEW80-BF_Nss 1,(M0)	0.752	1.24	297.5u	10k

For SKU 2:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a	0.941	0.26	1.428m	1k
802.11ax HEW20	0.92	0.36	1.044m	1k
802.11ax HEW40	0.84	0.76	550.625u	3k
802.11ax HEW80	0.749	1.26	296.25u	10k

Note:

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



1.1.4 EUT Operational Condition

EUT Power Type	From host system			
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz, n/ac/ax in 5GHz and ax in 6GHz.			
Weather Band	<input checked="" type="checkbox"/>	With 5600~5650MHz	<input type="checkbox"/>	Without 5600~5650MHz
Function	<input type="checkbox"/>	Outdoor P2M	<input type="checkbox"/>	Indoor P2M
	<input type="checkbox"/>	Fixed P2P	<input checked="" type="checkbox"/>	Client
	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
TPC Function	<input checked="" type="checkbox"/>	With TPC	<input type="checkbox"/>	Without TPC
Channel Puncturing Function	<input type="checkbox"/>	Supported	<input checked="" type="checkbox"/>	Unsupported
Support RU	<input checked="" type="checkbox"/>	Full RU	<input type="checkbox"/>	Partial RU
Test Software Version	Tera Term 4.75			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Model Name	Description
AW-XH323	All the models are identical, the different model names serve as strategies for marketing.
AW-XH325	
AW-XH327	

Note 1: From the above models, AW-XH323 was selected as representative model for the test, and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for EUT Information

The EUT has 3 SKUs. The difference between them lies in the software settings listed below:

SKU	TX/RX Function for WLAN	Supporting WLAN 6GHz
1	2TX/2RX	V
2	1TX/1RX	V
3	2TX/2RX	X

Note 1: From the above SKUs, SKU 1 and SKU 2 were selected to test all the test items, and their data was recorded in this report.

Note 2: 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	TH01-CB	Ken Yeh	21.4~22.7 / 66~68	Dec. 21, 2023~ Jan. 15, 2024
Radiated < 1GHz	03CH04-CB	Black Lu	22.7~23.8 / 56~59	Mar. 19, 2024~ Apr. 11, 2024
Radiated > 1GHz	03CH02-CB	Black Lu	22~23 / 55~58	Dec. 16, 2023~ Jan. 12, 2024
AC Conduction	CO01-CB	Joe Chu	22~23 / 50~51	Mar. 27, 2024



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For SKU 1:

Mode
802.11a_Nss1,(6Mbps)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5745MHz
5785MHz
5825MHz
802.11ax HEW20_Nss1,(MCS0)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5745MHz
5785MHz
5825MHz
802.11ax HEW40_Nss1,(MCS0)_2TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5755MHz
5795MHz
802.11ax HEW80_Nss1,(MCS0)_2TX
5210MHz
5290MHz
5530MHz
5610MHz
5775MHz
802.11ax HEW20-BF_Nss1,(MCS0)_2TX



5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5745MHz
5785MHz
5825MHz
802.11ax HEW40-BF_Nss1,(MCS0)_2TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5755MHz
5795MHz
802.11ax HEW80-BF_Nss1,(MCS0)_2TX
5210MHz
5290MHz
5530MHz
5610MHz
5775MHz

For SKU 2:

Mode
802.11a_Nss1,(6Mbps)_1TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5745MHz
5785MHz
5825MHz
802.11ax HEW20_Nss1,(MCS0)_1TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz



5320MHz
5500MHz
5580MHz
5700MHz
5745MHz
5785MHz
5825MHz
802.11ax HEW40_Nss1,(MCS0)_1TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5755MHz
5795MHz
802.11ax HEW80_Nss1,(MCS0)_1TX
5210MHz
5290MHz
5530MHz
5610MHz
5775MHz

Note:

- ♦ HEW20 / HEW40 / HEW80 covers HT20 / HT40 / VHT20 / VHT40 / VHT80 due to similar modulation. The power setting for HT20 / HT40 / VHT20 / VHT40 / VHT80 is the same or lower than HEW20 / HEW40 / HEW80.
- ♦ The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been evaluated to be the worst case, so it was selected to test. The beamforming mode evaluates the output power only.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT (SKU 1)_WLAN 2.4GHz + Bluetooth
2	EUT (SKU 1)_WLAN 5GHz + Bluetooth
3	EUT (SKU 1)_WLAN 6GHz + Bluetooth
4	EUT (SKU 2)_WLAN 2.4GHz + Bluetooth
5	EUT (SKU 2)_WLAN 5GHz + Bluetooth
6	EUT (SKU 2)_WLAN 6GHz + Bluetooth
For operating, Mode 4 was the worst case, and it was recorded in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains
1	EUT (SKU 1)
2	EUT (SKU 2)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal link The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Z axis. Thus, the measurement will follow this same test configuration.
1	EUT (SKU 1) in Z axis_WLAN 2.4GHz + Bluetooth
2	EUT (SKU 1) in Z axis_WLAN 5GHz + Bluetooth
3	EUT (SKU 1) in Z axis_WLAN 6GHz + Bluetooth
4	EUT (SKU 2) in Z axis_WLAN 2.4GHz + Bluetooth
5	EUT (SKU 2) in Z axis_WLAN 5GHz + Bluetooth
6	EUT (SKU 2) in Z axis_WLAN 6GHz + Bluetooth



For operating, Mode 1 was the worst case, and it was recorded in this test report.	
Operating Mode > 1GHz	CTX
	The EUT (SKU 1) and EUT (SKU 2) were performed at X axis, Y axis and Z axis position. Their worst cases are listed as below:
1	EUT (SKU 1) in Z axis (Bandedge)
	EUT (SKU 1) in Y axis (Harmonic)
2	EUT (SKU 2) in X axis (Bandedge)
	EUT (SKU 2) in Z axis (Harmonic)

Note: The EUT can enable the WLAN function and the Bluetooth function at the same time, but they cannot function simultaneously. There will be a time delay between switching from each function.

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Fixture 1	AZW	2460-i3	N/A
B	Fixture 2	AZW	2460-i6	N/A
C	Control NB	DELL	E6430	N/A
D	NB 1	DELL	E6430	N/A
E	AP Router	TP-LINK	Archer C54	N/A
F	NB 2	DELL	E6430	N/A
G	iPad mini	Apple	A1489	N/A
H	Mouse	acer	MOBVUO	N/A
I	Earphone	e-Power	GT-02	N/A



For Radiated < 1GHz:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Fixture 1	AZW	2460-i3	N/A
B	Fixture 2	AZW	2460-i6	N/A
C	NB 1	DELL	E6230	N/A
D	WLAN AP	ASUS	RT-AX88U	N/A
E	NB 2	DELL	E4300	N/A
F	Mouse	Logitech	M-U0026	N/A
G	Earphone	e-Power	S90W	N/A
H	iPad	Apple	A1430	N/A

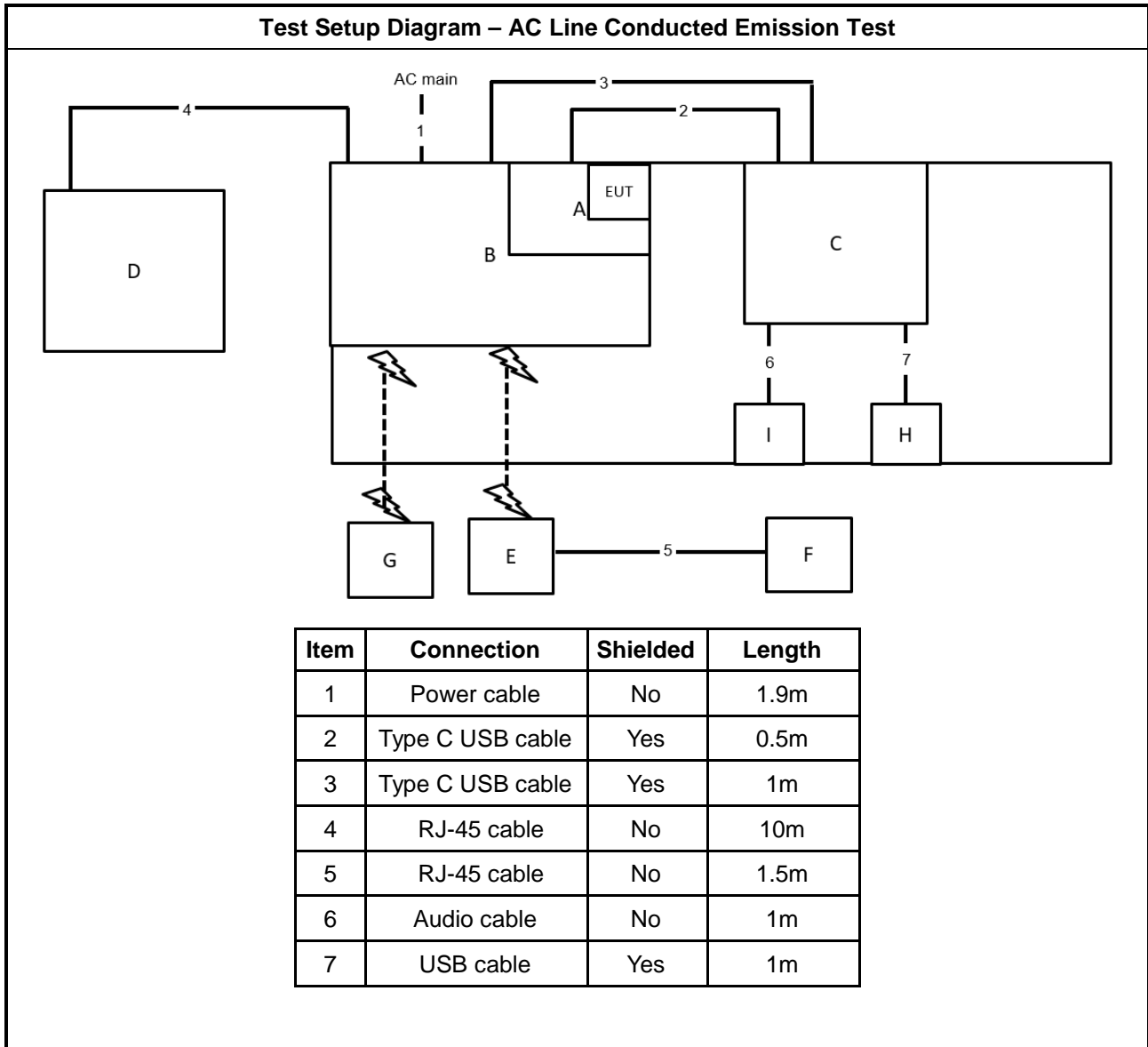
For Radiated > 1GHz:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Fixture 1	AZW	2460-i3	N/A
B	Fixture 2	AZW	2460-i6	N/A
C	NB	DELL	E6230	N/A

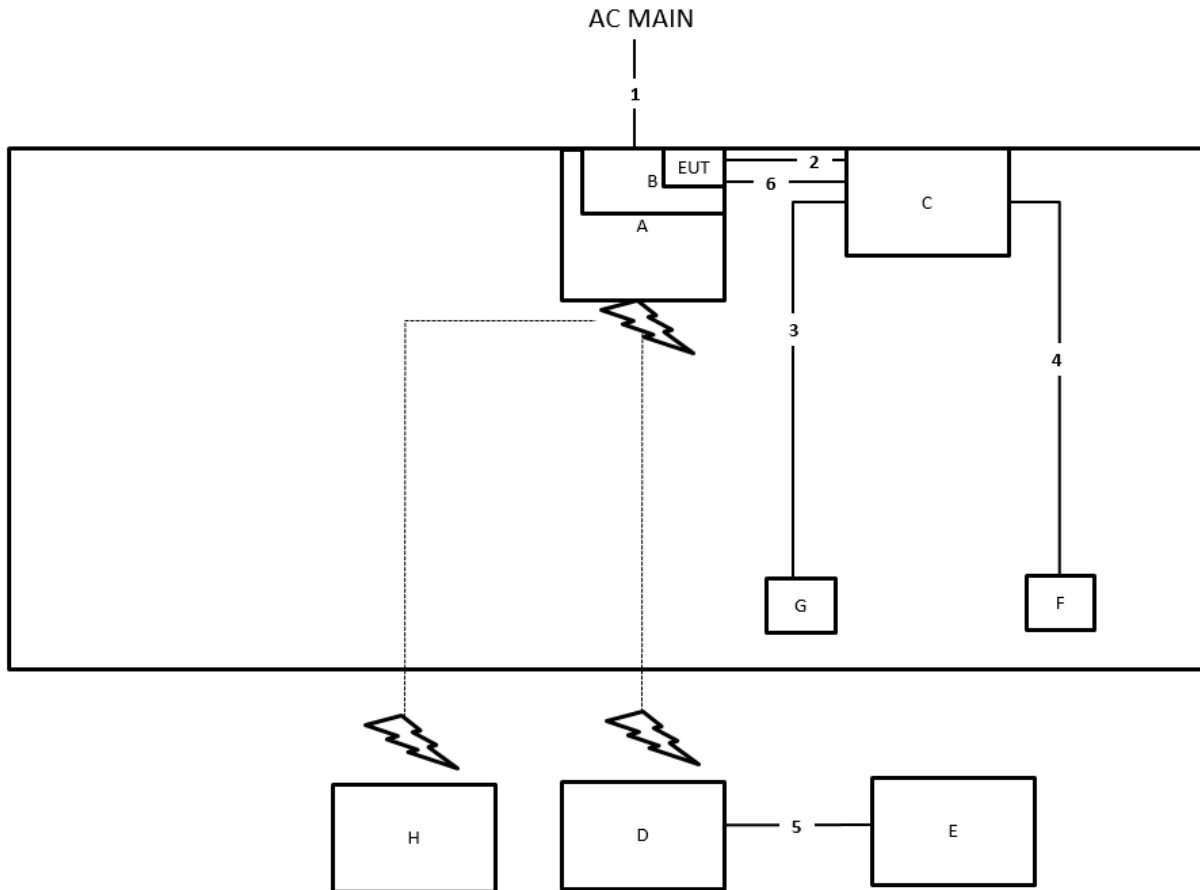
For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	USB to TypeC cable	PHILIPS	DLC4543	N/A
C	USB to TypeC cable	PHILIPS	DLC4543	N/A
D	Fixture 1	AZW	2460-i3	N/A
E	Fixture 2	AZW	2460-i6	N/A

2.6 Test Setup Diagram

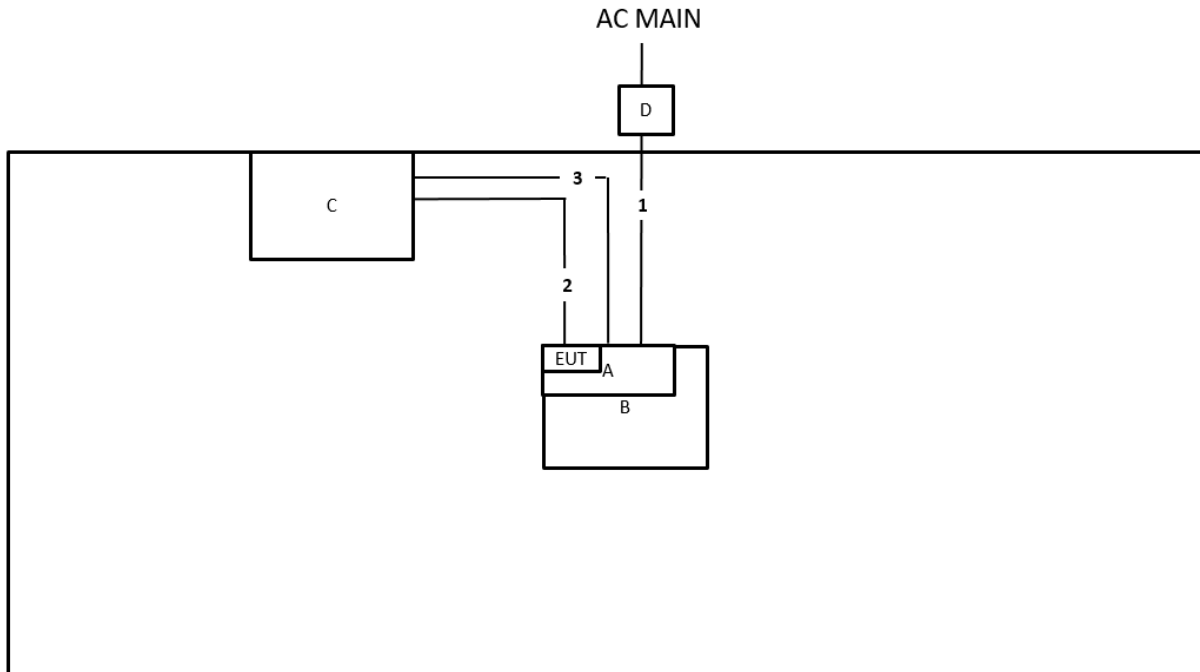


Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.9m
2	USB to TypeC cable	Yes	1m
3	Audio cable	No	1m
4	USB cable	Yes	1.5m
5	RJ-45 cable	No	10m
6	USB to TypeC cable	Yes	1m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.9m
2	USB to TypeC cable	Yes	1m
3	USB to TypeC cable	Yes	1m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

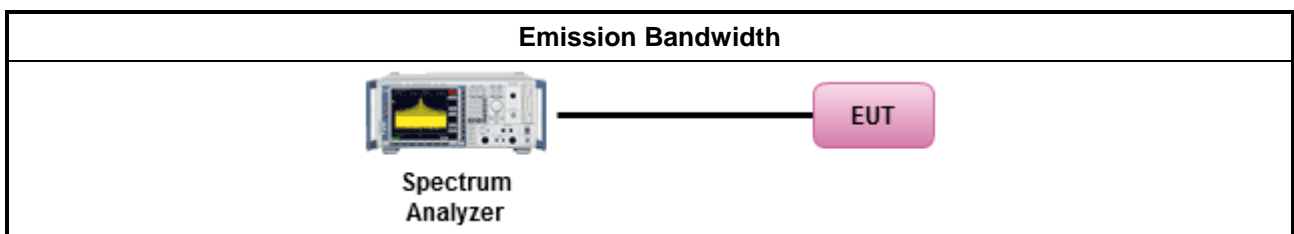
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method							
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px;"><input checked="" type="checkbox"/></td> <td>Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.</td> </tr> </table> 		<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.	<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.	<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.						
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.						
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.						

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Output Power

3.3.1 Limit

Maximum Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125mW$ [21dBm] Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.47-5.725 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 $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> For other devices: 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. Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/> For the 5.25-5.35 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> For other devices: The maximum conducted output power shall not exceed 250 mW or 11 + 10 log 10 B, dBm, and 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 Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or 11 + 10 log 10 B, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	



<input type="checkbox"/>	For the 5.725-5.85 GHz band:
	<ul style="list-style-type: none"> Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

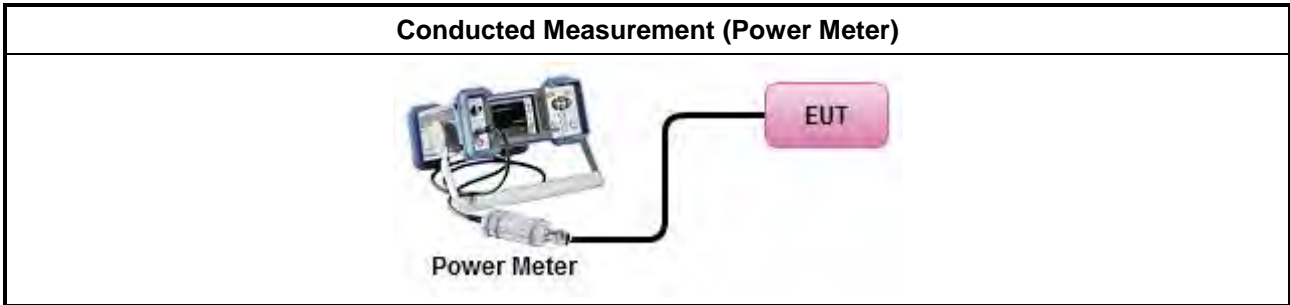
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Limit

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

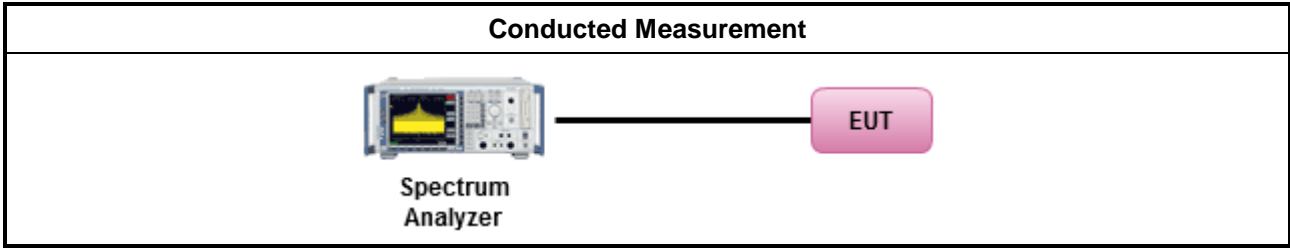
Refer a test equipment and calibration data table in this test report.



3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: 	
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input checked="" type="checkbox"/> For conducted measurement.	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: 	
<input checked="" type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
<input type="checkbox"/>	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
<input type="checkbox"/>	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ 	
<input type="checkbox"/> For radiated measurement.	
<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" ▪ 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



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

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

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



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

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

3.5.2 Measuring Instruments

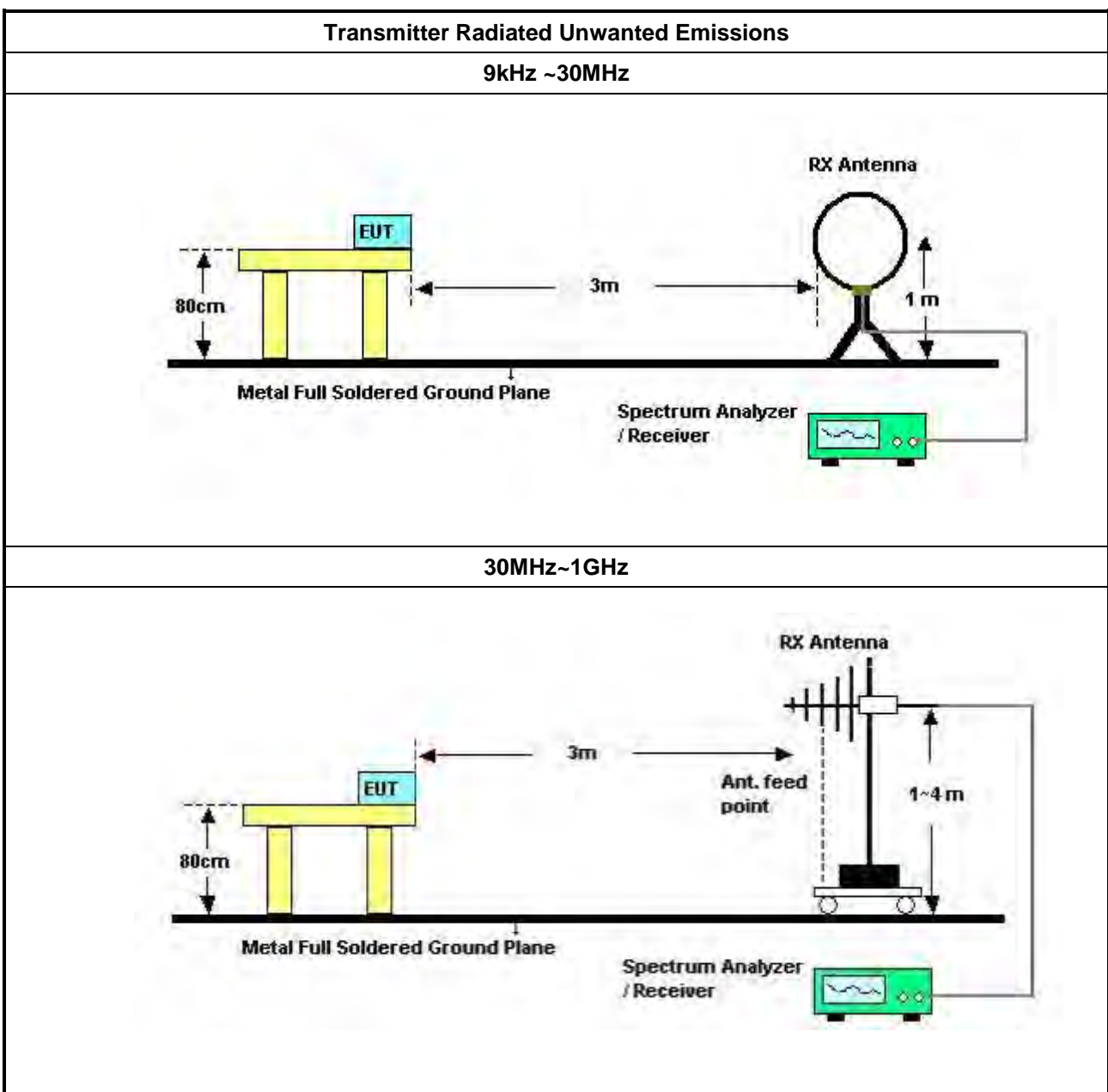
Refer a test equipment and calibration data table in this test report.

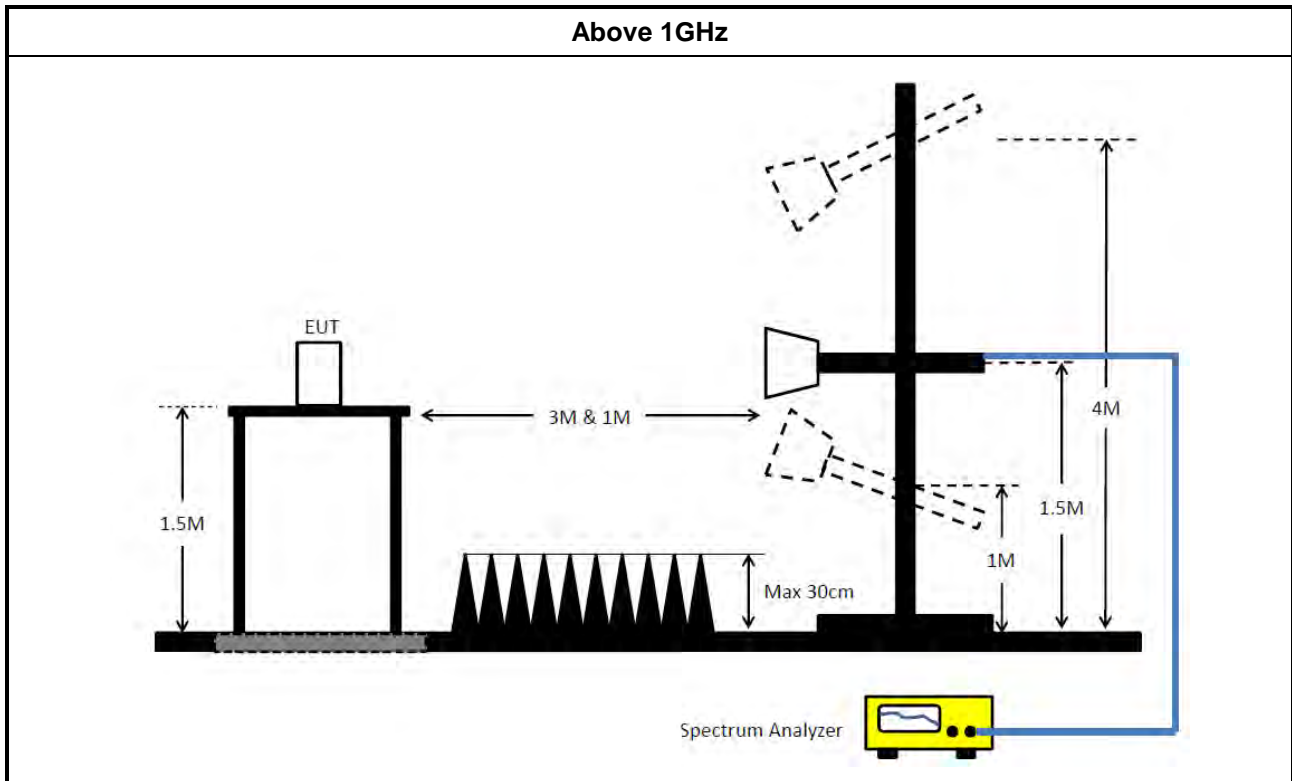
3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). 	
<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: <ul style="list-style-type: none"> Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands. Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands. <ul style="list-style-type: none"> <input type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging). <input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW). <input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. <input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions. <input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit. <input type="checkbox"/> Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit. 	

- 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





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	Mar. 01, 2024	Feb. 28, 2025	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 19, 2024	Feb. 18, 2025	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 08, 2024	Feb. 07, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30MHz ~ 1GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMC I	CBL6112B & N-6-06	22021&AT-N06 07	30MHz ~ 1GHz	Oct. 07, 2023	Oct. 06, 2024	Radiation (03CH04-CB)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	May 23, 2023	May 22, 2024	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 19, 2024	Mar. 18, 2025	Radiation (03CH04-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz ~ 1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~ 18GHz	Mar. 25, 2023	Mar. 24, 2024	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~26.5GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1339408	300MHz~40GHz	Sep. 12, 2023	Sep. 11, 2024	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1517009	300MHz~40GHz	Sep. 12, 2023	Sep. 11, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

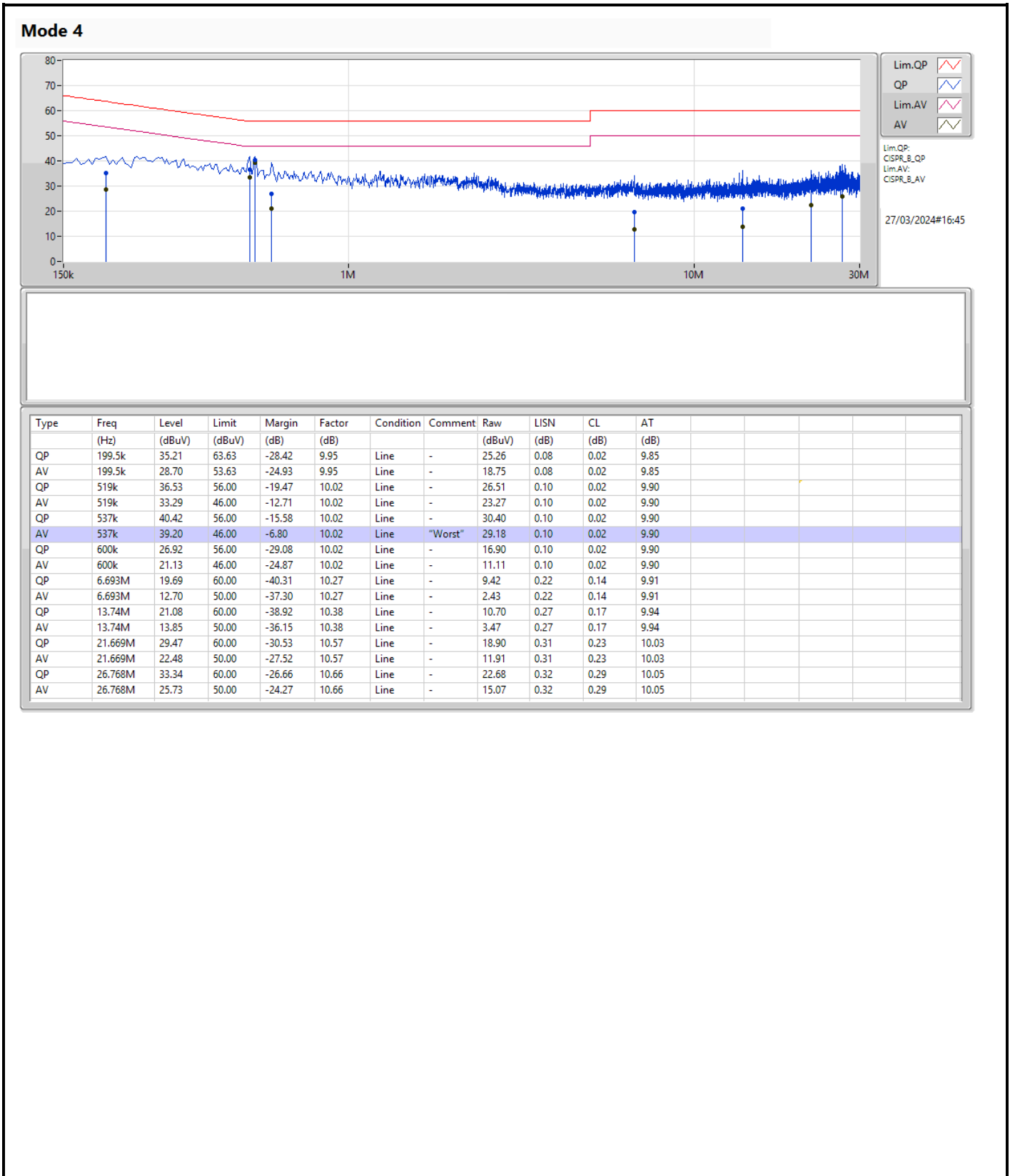
Note: Calibration Interval of instruments listed above is one year.

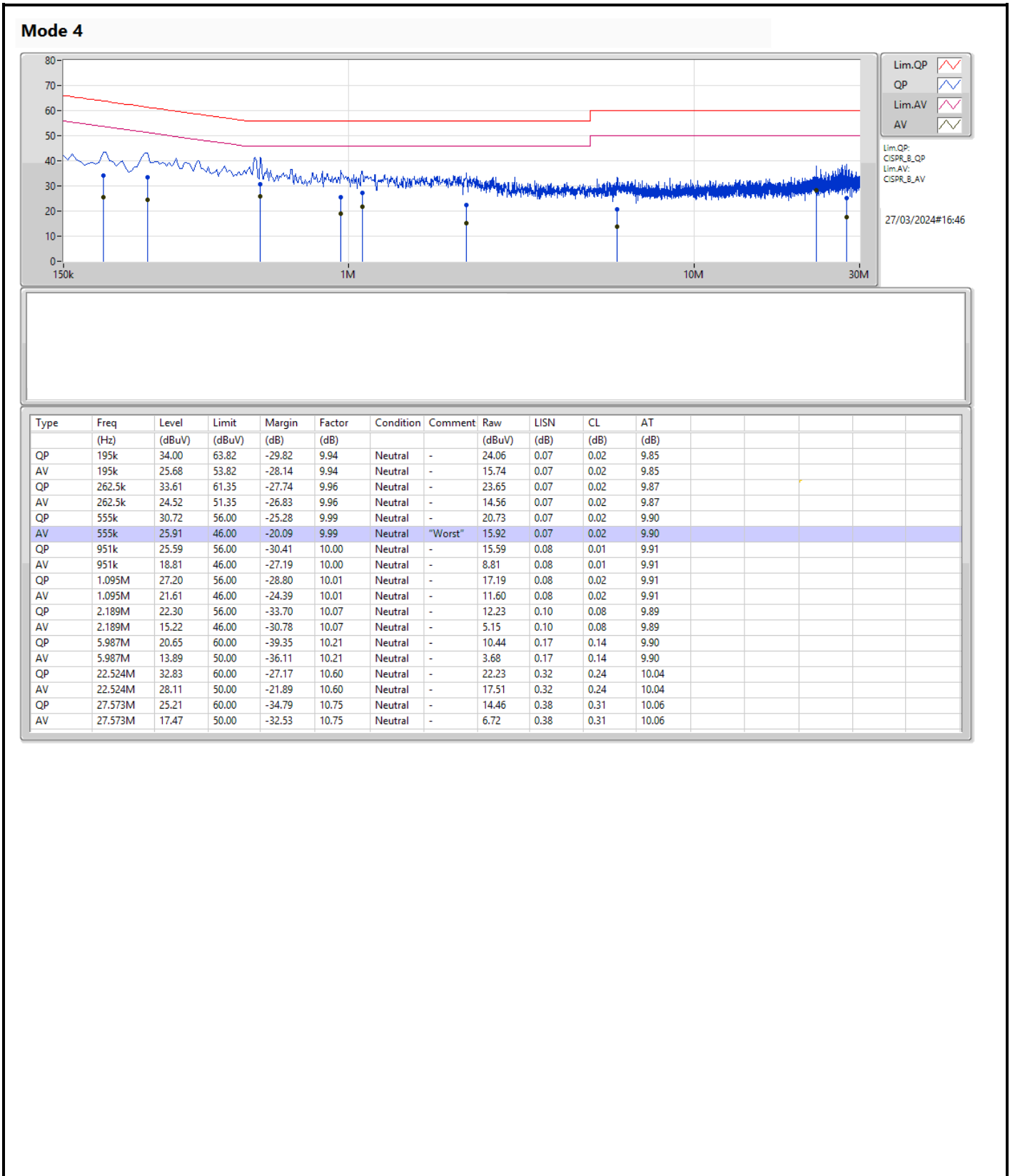
NCR means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 4	Pass	AV	537k	39.20	46.00	-6.80	Line







Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.23M	16.65M	16M7D1D	19.965M	16.408M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.67M	19.07M	19M1D1D	20.625M	18.912M
802.11ax HEW40_Nss1,(MCS0)_2TX	39.6M	37.611M	37M6D1D	38.83M	37.468M
802.11ax HEW80_Nss1,(MCS0)_2TX	80.08M	77.102M	77M1D1D	79.86M	76.797M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.79M	16.614M	16M6D1D	19.47M	16.444M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.45M	19.122M	19M1D1D	20.515M	18.931M
802.11ax HEW40_Nss1,(MCS0)_2TX	39.49M	37.595M	37M6D1D	38.94M	37.439M
802.11ax HEW80_Nss1,(MCS0)_2TX	80.3M	76.99M	77MOD1D	79.86M	76.513M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.68M	16.626M	16M6D1D	20.24M	16.459M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.395M	19.056M	19M1D1D	20.46M	18.927M
802.11ax HEW40_Nss1,(MCS0)_2TX	39.82M	37.901M	37M9D1D	39.05M	37.414M
802.11ax HEW80_Nss1,(MCS0)_2TX	80.52M	77.37M	77M4D1D	80.08M	76.601M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.5M	23.925M	23M9D1D	15.345M	22.1M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.085M	27.295M	27M3D1D	13.145M	23.423M
802.11ax HEW40_Nss1,(MCS0)_2TX	36.85M	55.629M	55M6D1D	32.23M	37.659M
802.11ax HEW80_Nss1,(MCS0)_2TX	72.6M	77.137M	77M1D1D	53.9M	76.689M

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)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.735M	16.575M	21.23M	16.439M
5200MHz	Pass	Inf	20.79M	16.491M	20.735M	16.65M
5240MHz	Pass	Inf	19.965M	16.468M	20.46M	16.408M
5260MHz	Pass	Inf	20.35M	16.52M	19.8M	16.614M
5300MHz	Pass	Inf	19.47M	16.535M	20.46M	16.444M
5320MHz	Pass	Inf	20.68M	16.518M	20.79M	16.594M
5500MHz	Pass	Inf	20.24M	16.626M	20.68M	16.5M
5580MHz	Pass	Inf	20.68M	16.582M	20.46M	16.459M
5700MHz	Pass	Inf	20.295M	16.591M	20.295M	16.59M
5745MHz	Pass	500k	16.5M	22.1M	16.06M	23.411M
5785MHz	Pass	500k	16.28M	22.711M	16.06M	23.925M
5825MHz	Pass	500k	15.345M	23.743M	16.28M	23.145M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.68M	18.933M	21.065M	19.011M
5200MHz	Pass	Inf	20.845M	18.978M	20.625M	19.07M
5240MHz	Pass	Inf	21.67M	18.912M	21.285M	18.963M
5260MHz	Pass	Inf	20.515M	19.102M	21.01M	19.031M
5300MHz	Pass	Inf	21.175M	19.122M	20.79M	18.931M
5320MHz	Pass	Inf	21.45M	19.049M	20.79M	18.947M
5500MHz	Pass	Inf	21.395M	19.048M	21.01M	18.98M
5580MHz	Pass	Inf	21.12M	18.962M	20.955M	18.956M
5700MHz	Pass	Inf	20.46M	19.056M	21.065M	18.927M
5745MHz	Pass	500k	19.085M	25.985M	19.03M	23.423M
5785MHz	Pass	500k	19.085M	27.295M	19.085M	25.87M
5825MHz	Pass	500k	13.145M	27.165M	18.645M	24.922M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.6M	37.507M	38.94M	37.472M
5230MHz	Pass	Inf	38.94M	37.611M	38.83M	37.468M
5270MHz	Pass	Inf	39.16M	37.439M	38.94M	37.592M
5310MHz	Pass	Inf	39.49M	37.595M	39.16M	37.478M
5510MHz	Pass	Inf	39.49M	37.48M	39.6M	37.901M
5550MHz	Pass	Inf	39.49M	37.414M	39.82M	37.654M
5670MHz	Pass	Inf	39.05M	37.546M	39.05M	37.541M
5755MHz	Pass	500k	36.08M	37.659M	32.23M	37.663M
5795MHz	Pass	500k	36.74M	55.629M	36.85M	43.058M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	79.86M	77.102M	80.08M	76.797M
5290MHz	Pass	Inf	79.86M	76.513M	80.3M	76.99M
5530MHz	Pass	Inf	80.52M	76.601M	80.08M	77.224M
5610MHz	Pass	Inf	80.08M	77.007M	80.3M	77.37M
5775MHz	Pass	500k	72.6M	77.137M	53.9M	76.689M

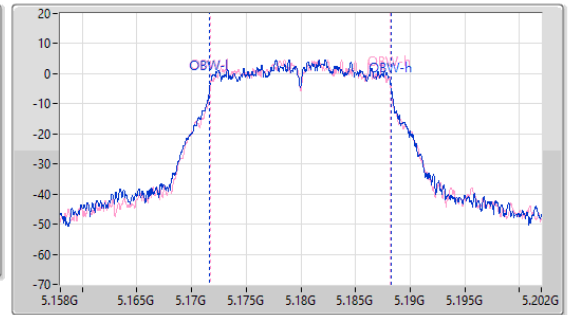
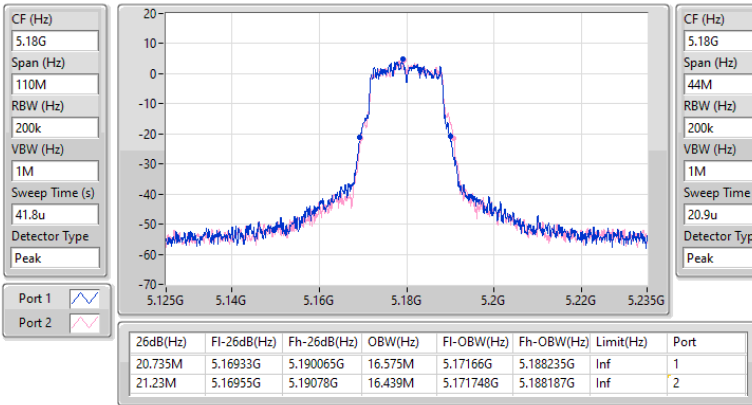
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

26/12/2023

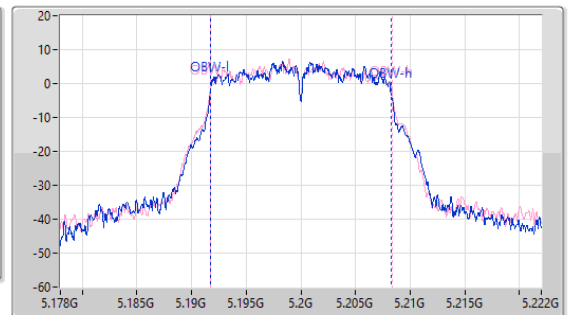
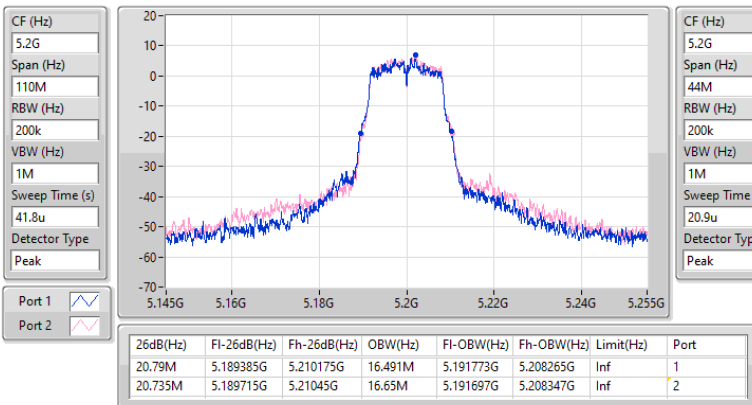


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

26/12/2023

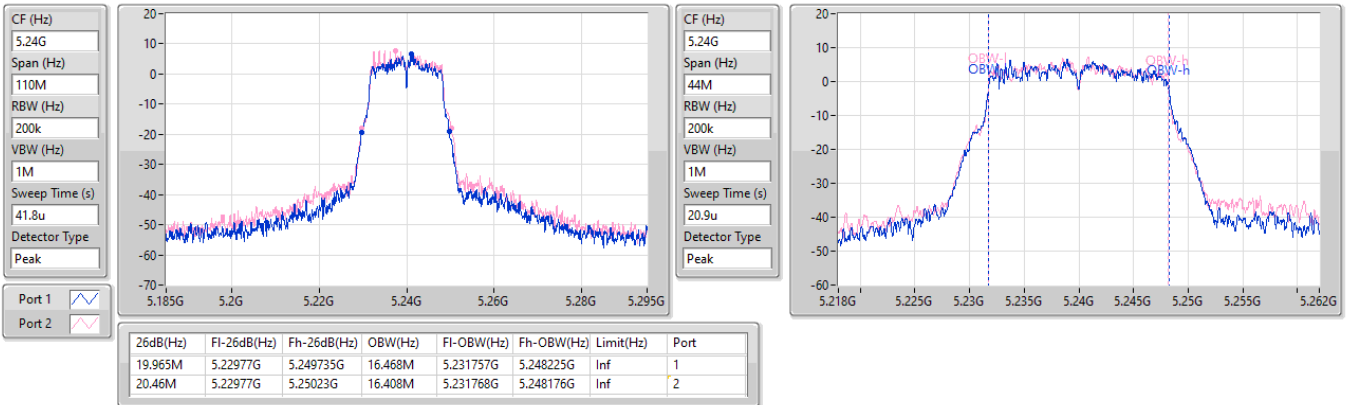


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

26/12/2023

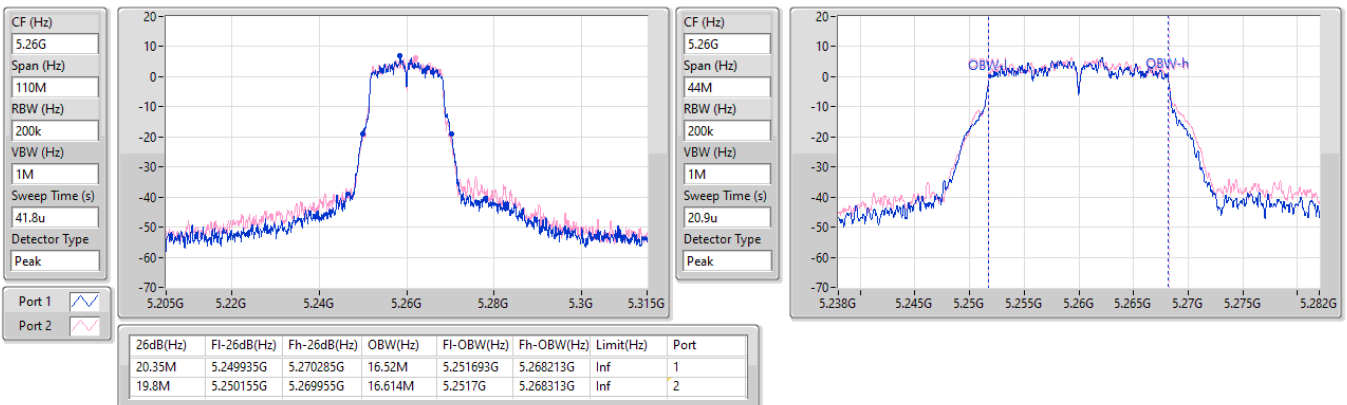


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5260MHz

26/12/2023



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5300MHz

26/12/2023

CF (Hz)
5.3G

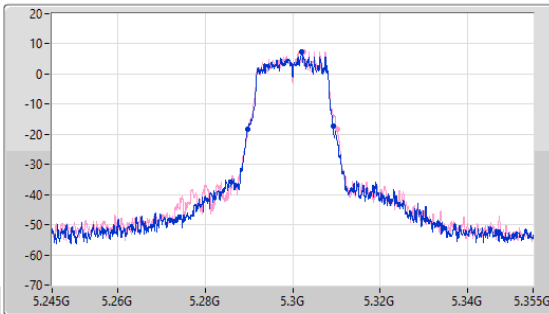
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
5.3G

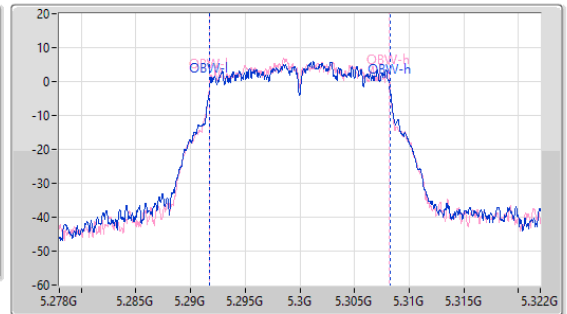
Span (Hz)
44M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.47M	5.289825G	5.309295G	16.535M	5.291723G	5.308258G	Inf	1
20.46M	5.28977G	5.31023G	16.444M	5.291756G	5.308199G	Inf	2

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5320MHz

26/12/2023

CF (Hz)
5.32G

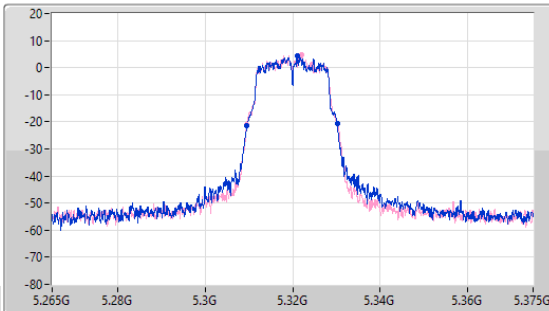
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
5.32G

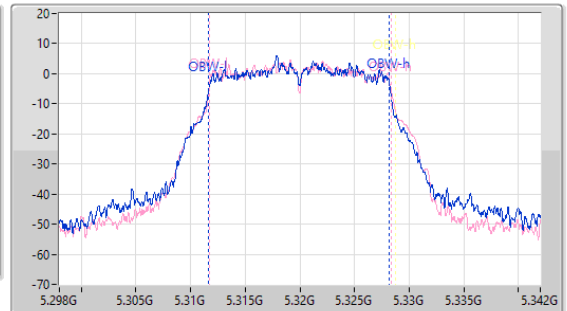
Span (Hz)
44M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



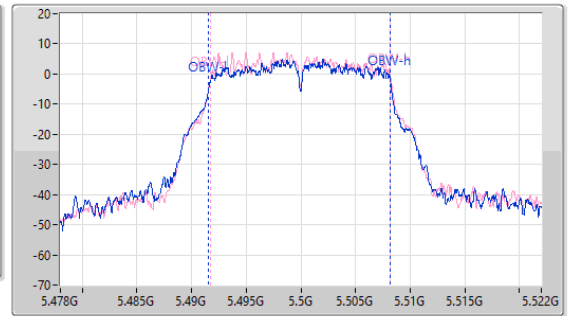
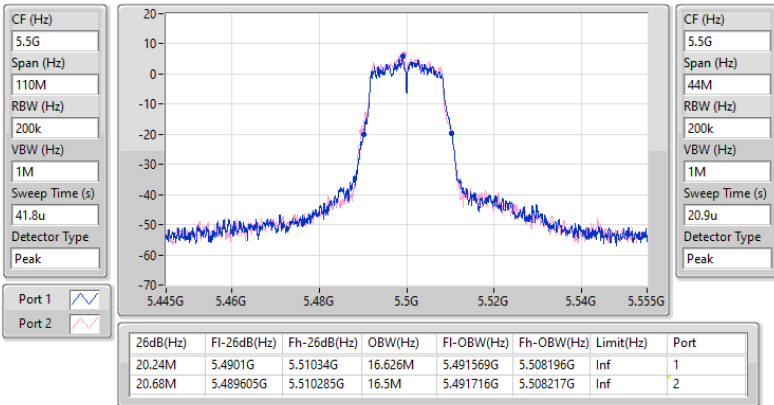
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.68M	5.30955G	5.33023G	16.518M	5.31168G	5.328198G	Inf	1
20.79M	5.30944G	5.33023G	16.594M	5.31174G	5.328334G	Inf	2

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5500MHz

26/12/2023

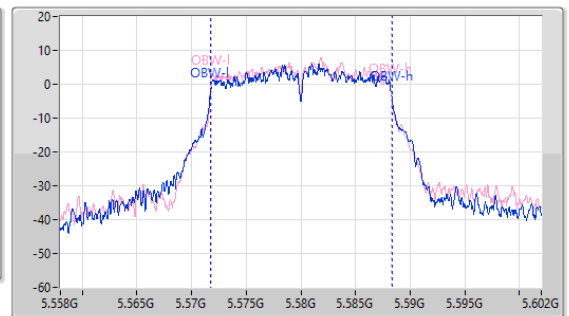
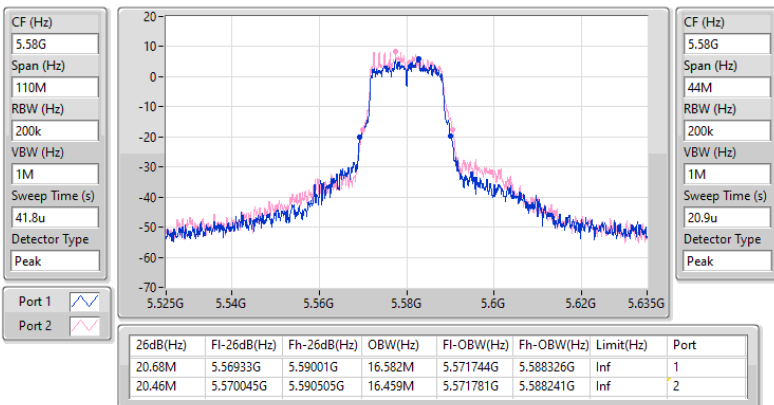


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5580MHz

26/12/2023

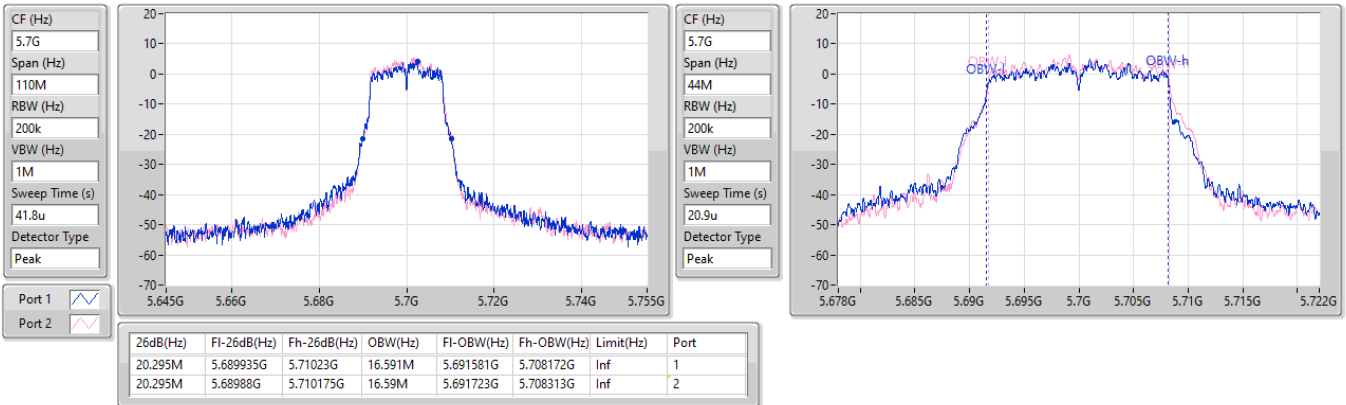


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5700MHz

26/12/2023

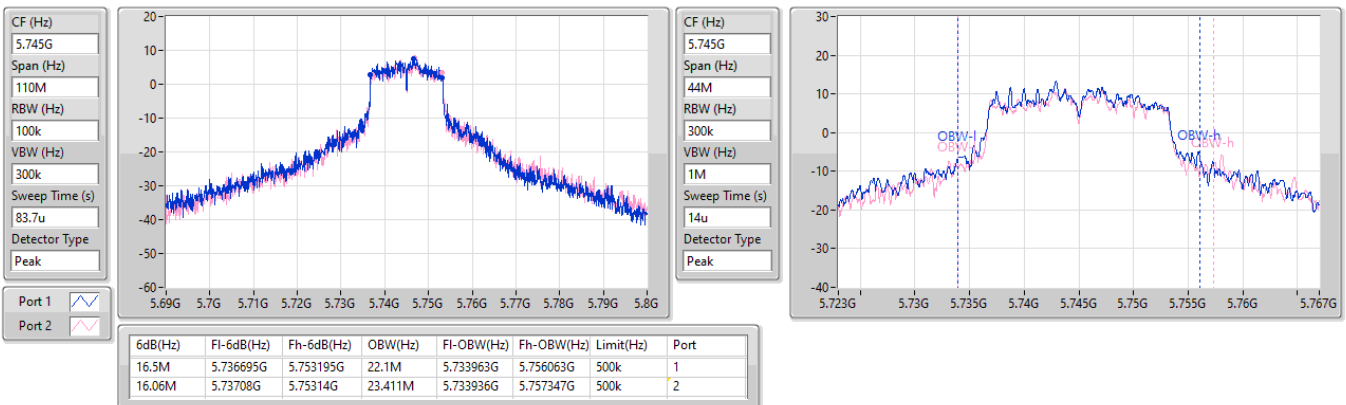


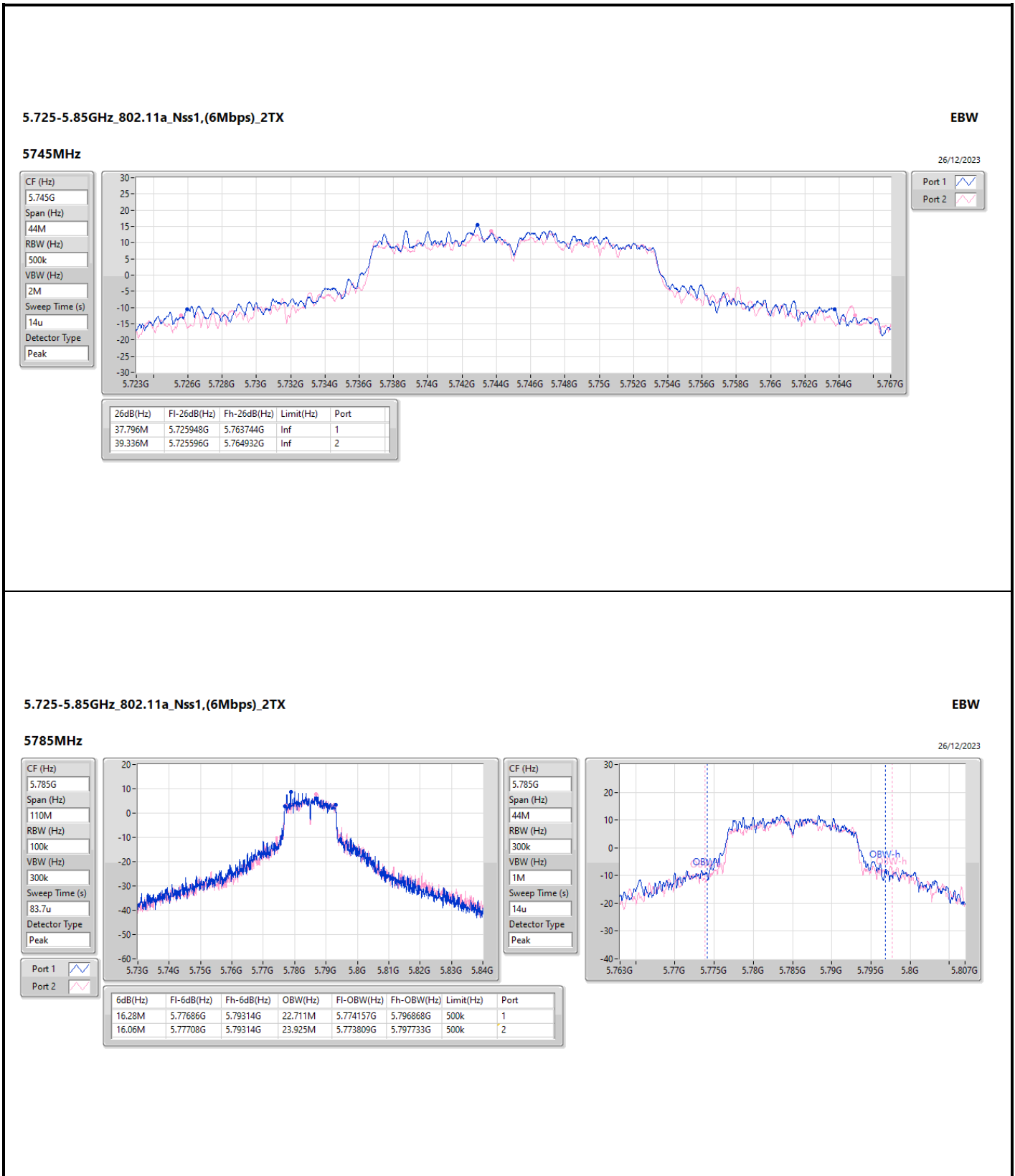
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

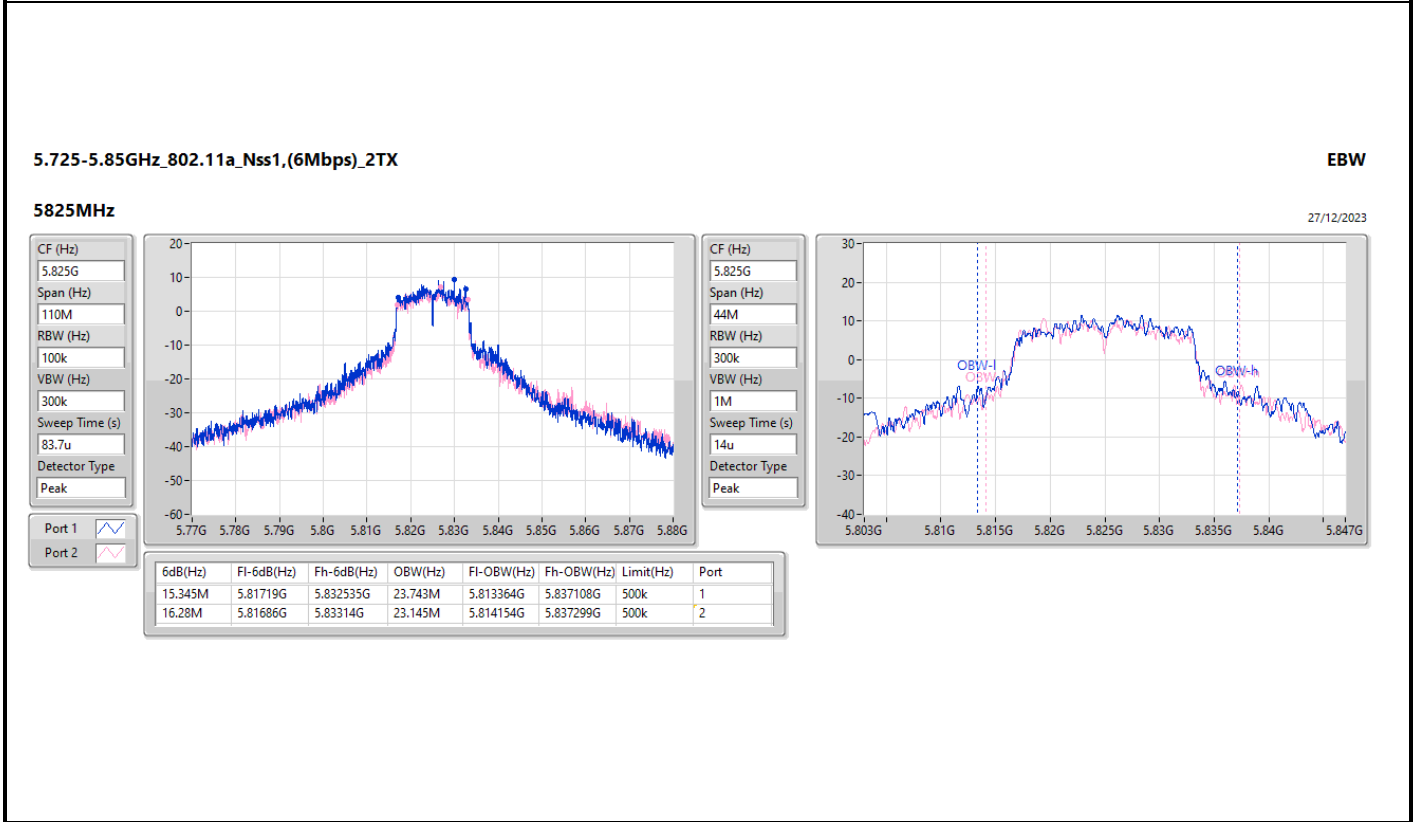
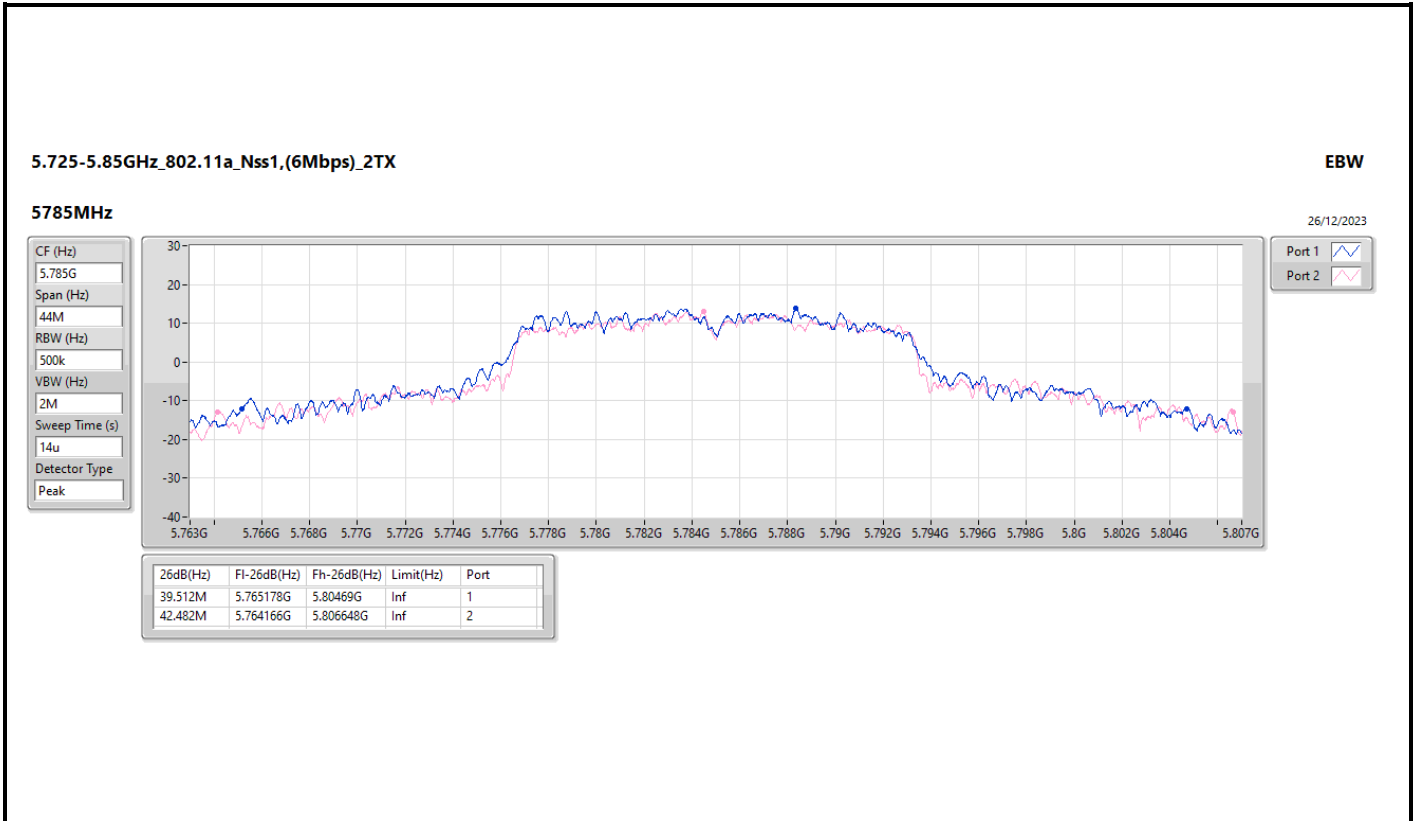
EBW

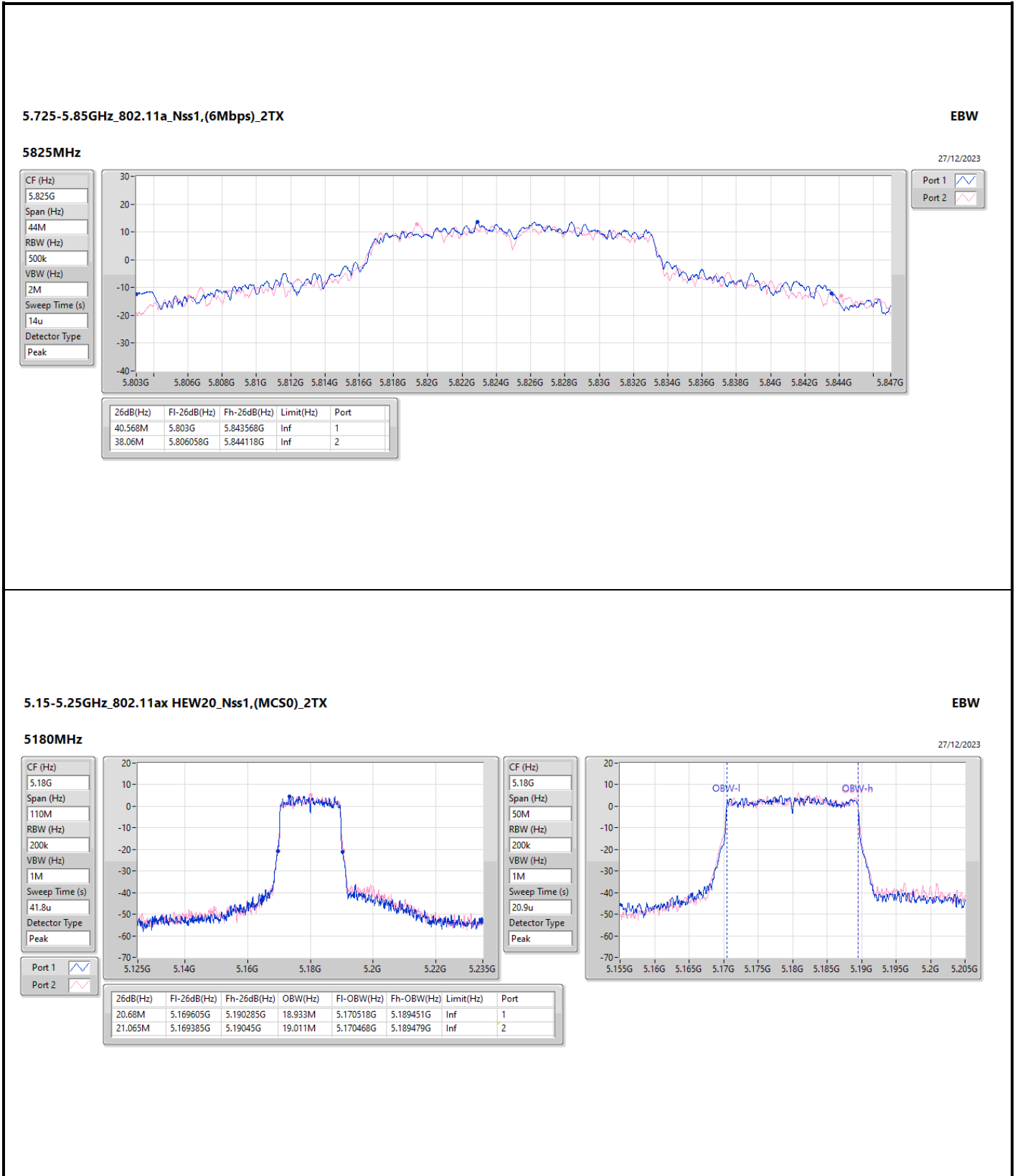
5745MHz

26/12/2023







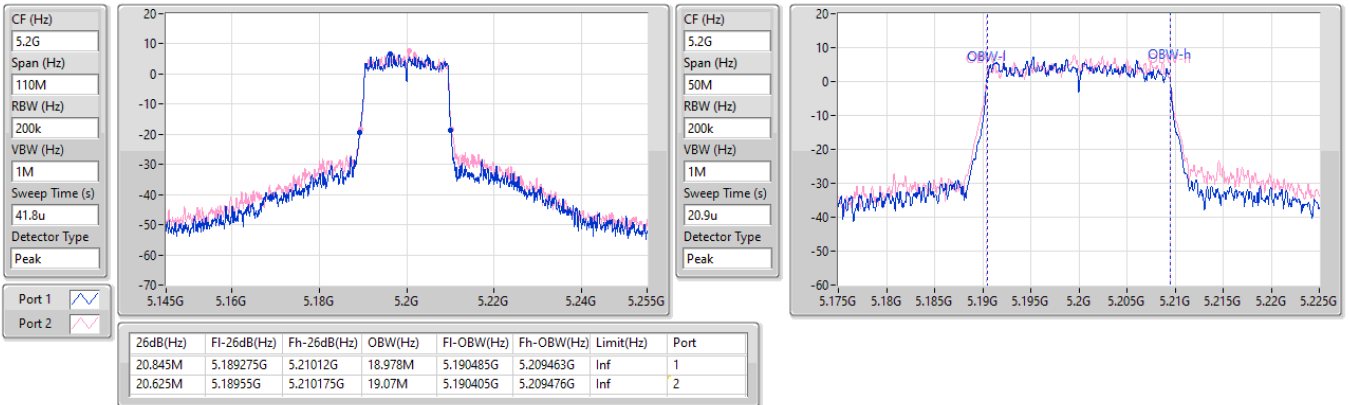


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5200MHz

27/12/2023

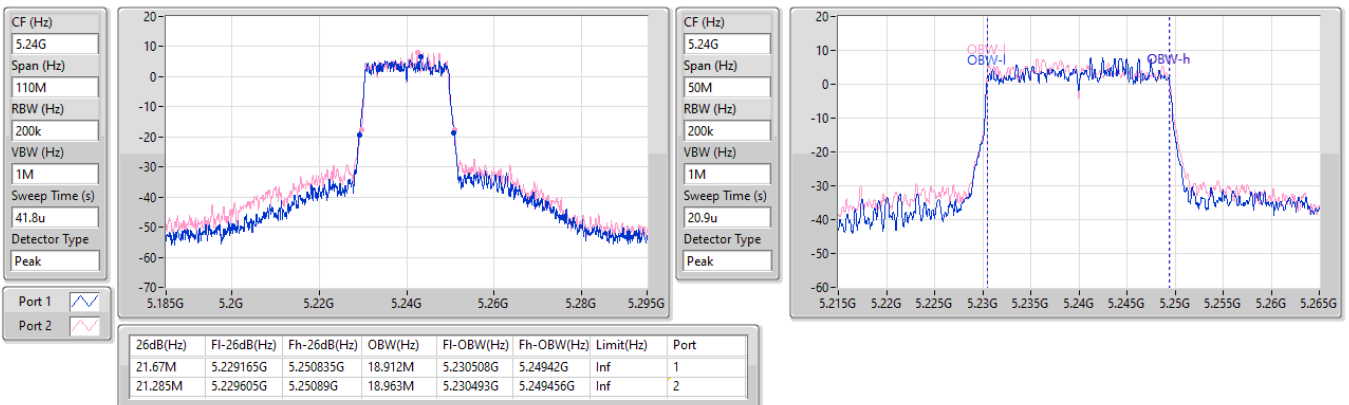


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5240MHz

27/12/2023

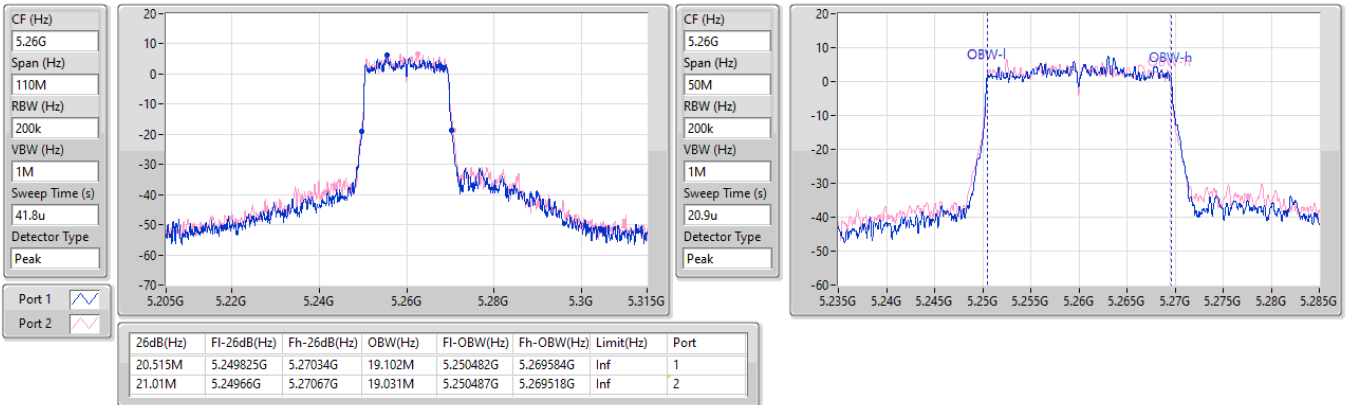


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5260MHz

27/12/2023

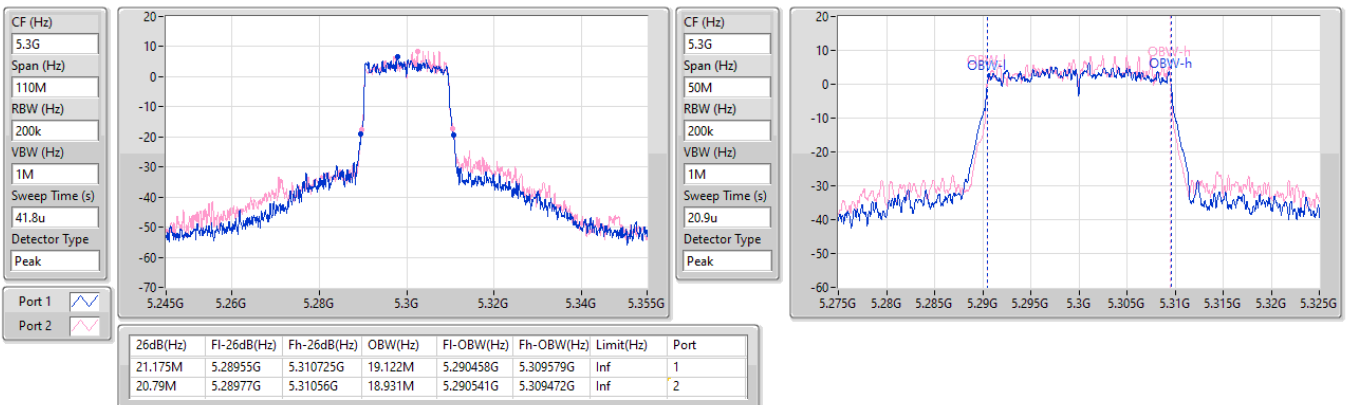


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5300MHz

27/12/2023

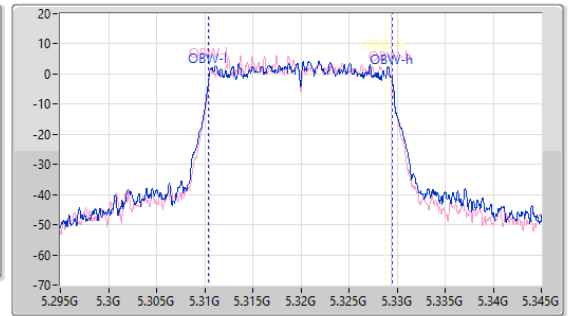
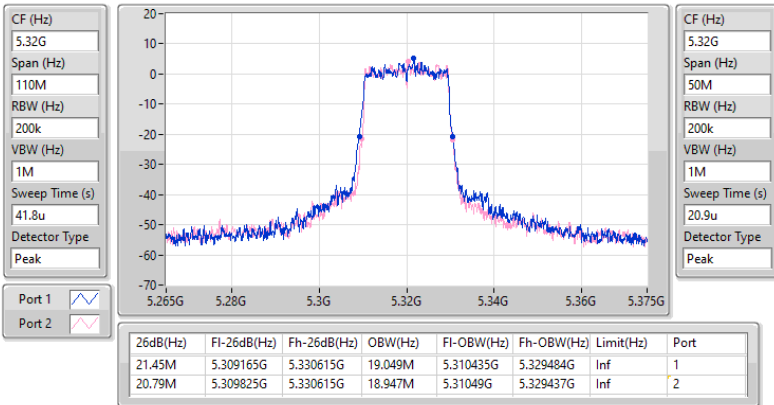


5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5320MHz

27/12/2023

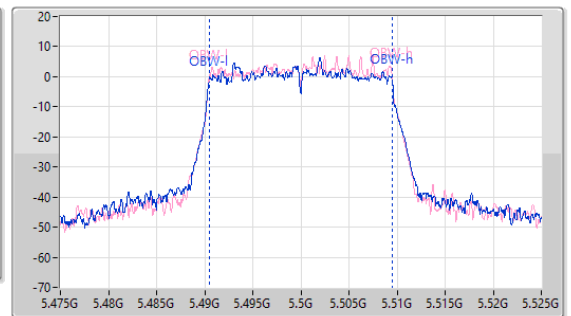
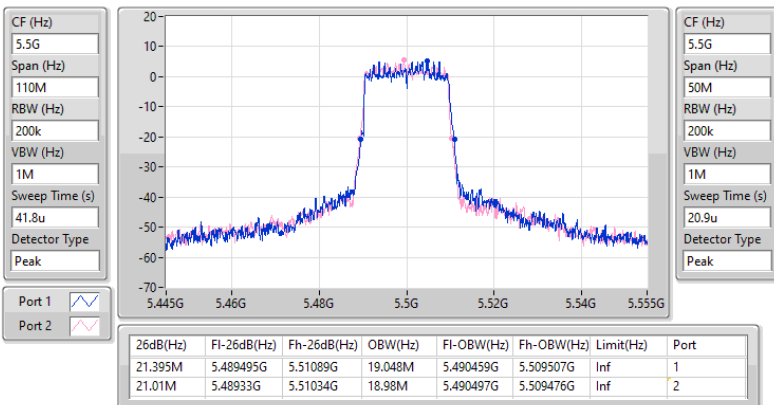


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5500MHz

27/12/2023

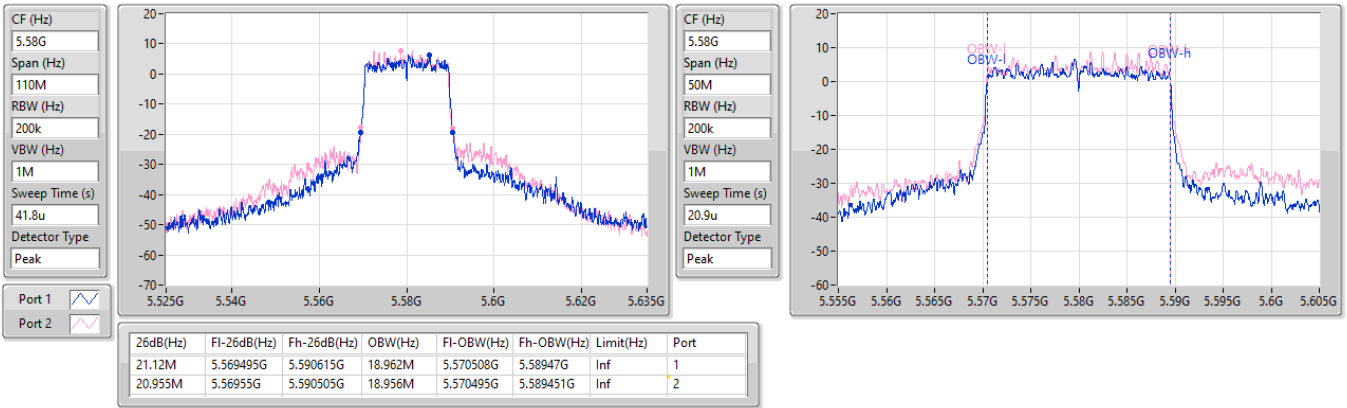


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5580MHz

27/12/2023

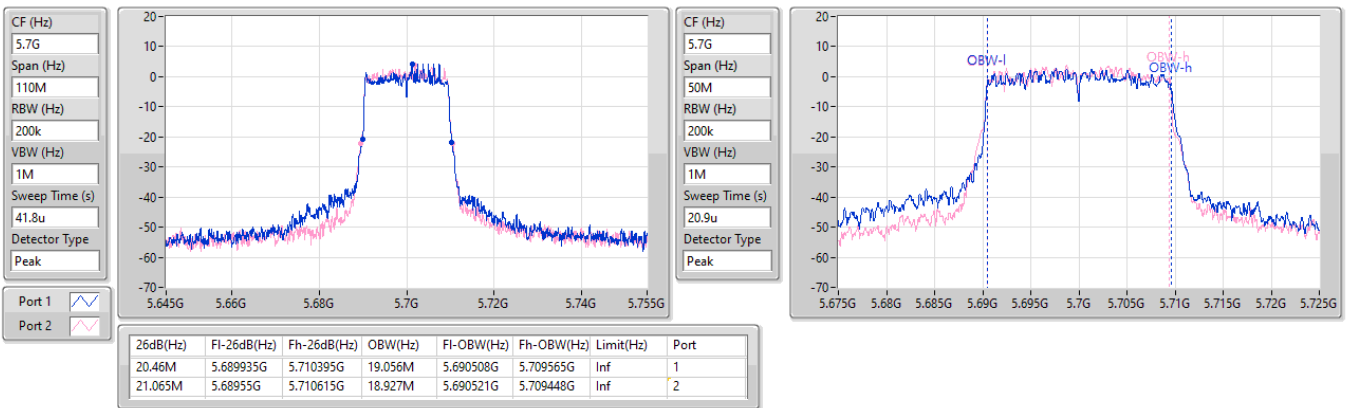


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5700MHz

27/12/2023

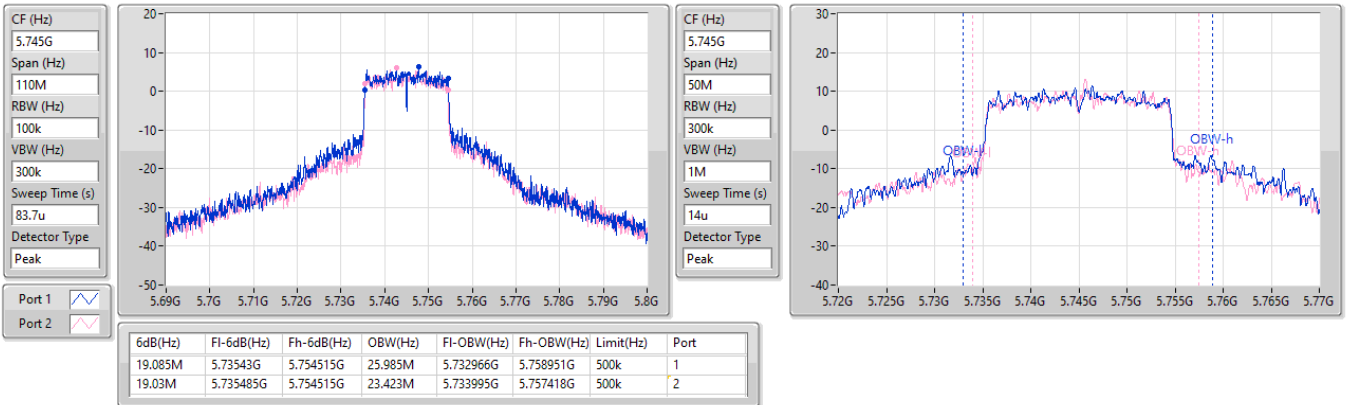


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5745MHz

27/12/2023

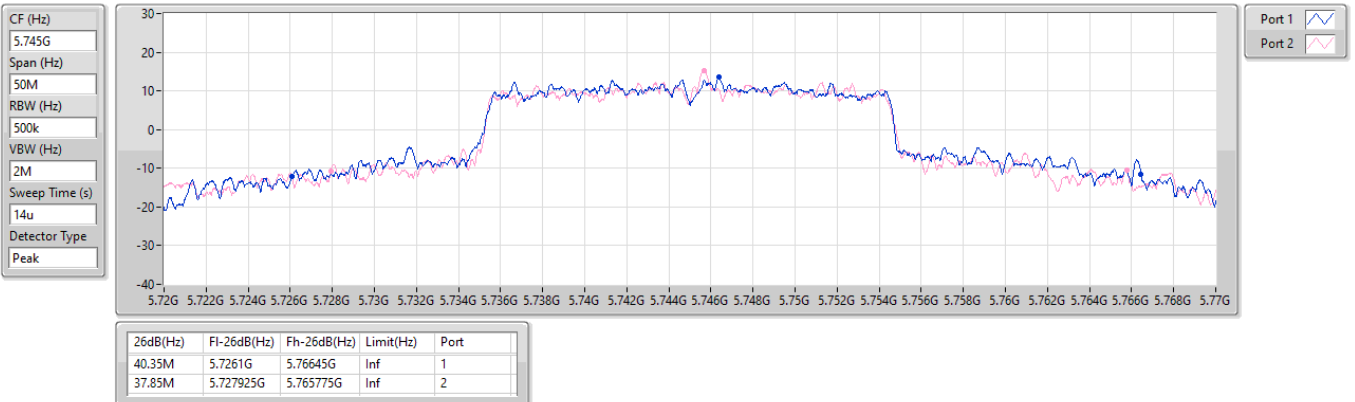


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5745MHz

27/12/2023

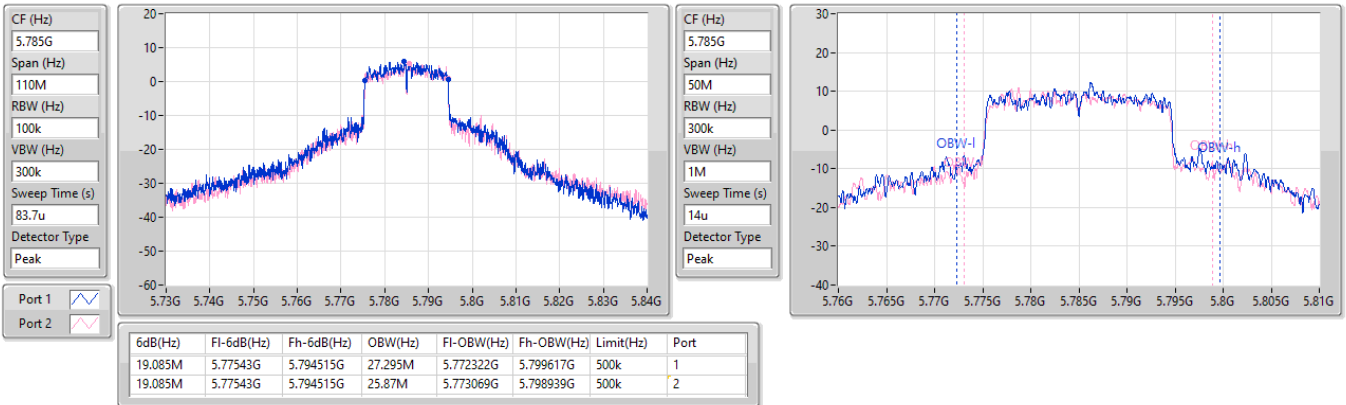


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5785MHz

27/12/2023

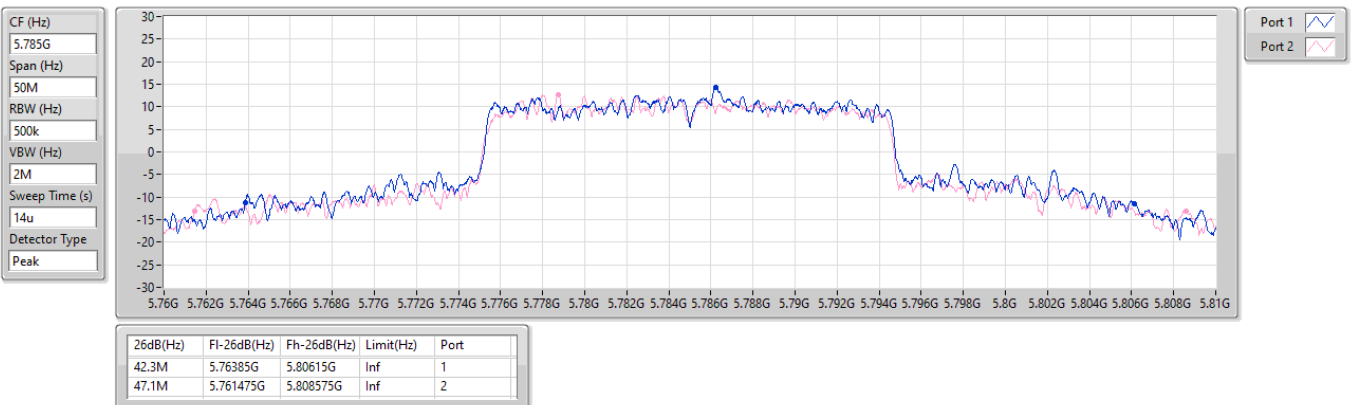


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5785MHz

27/12/2023

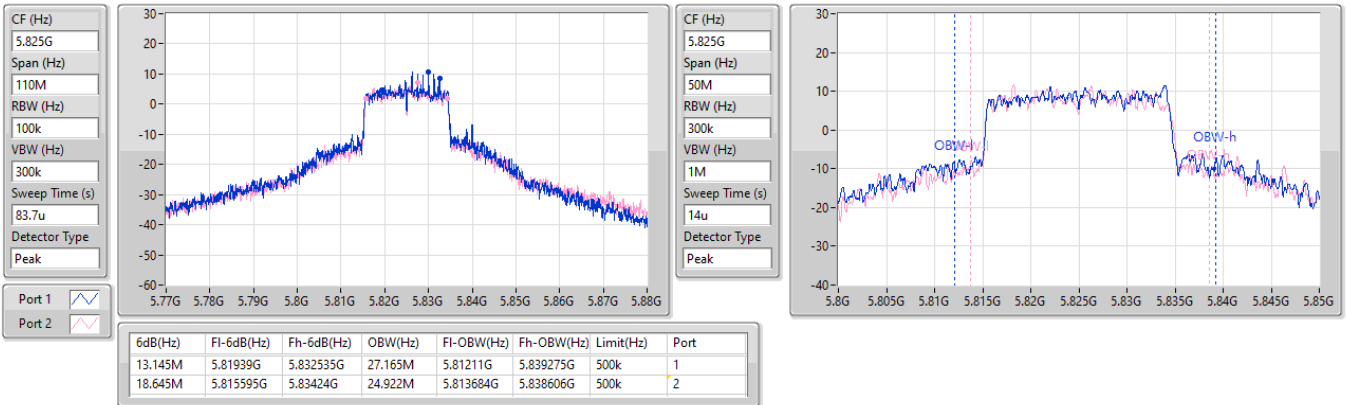


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

27/12/2023

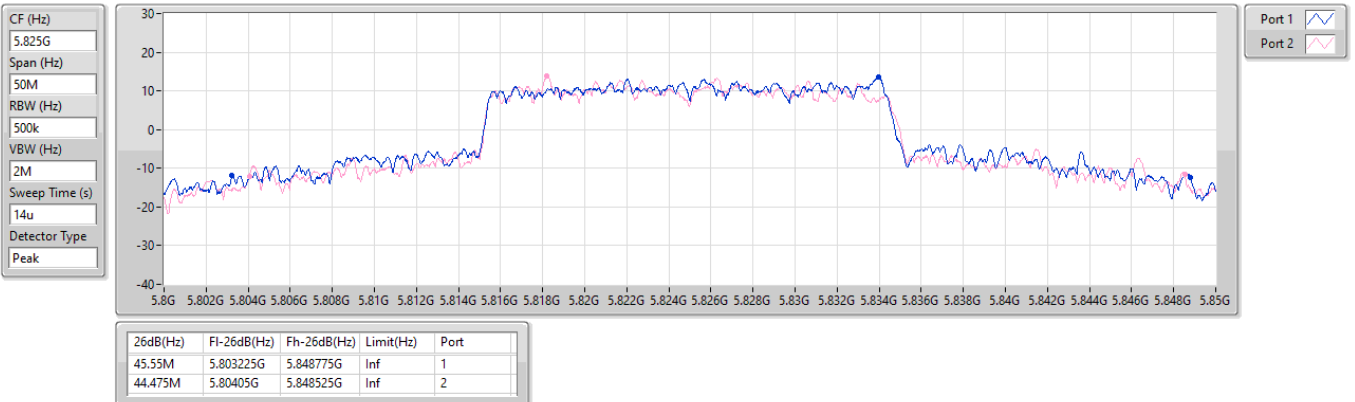


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

27/12/2023

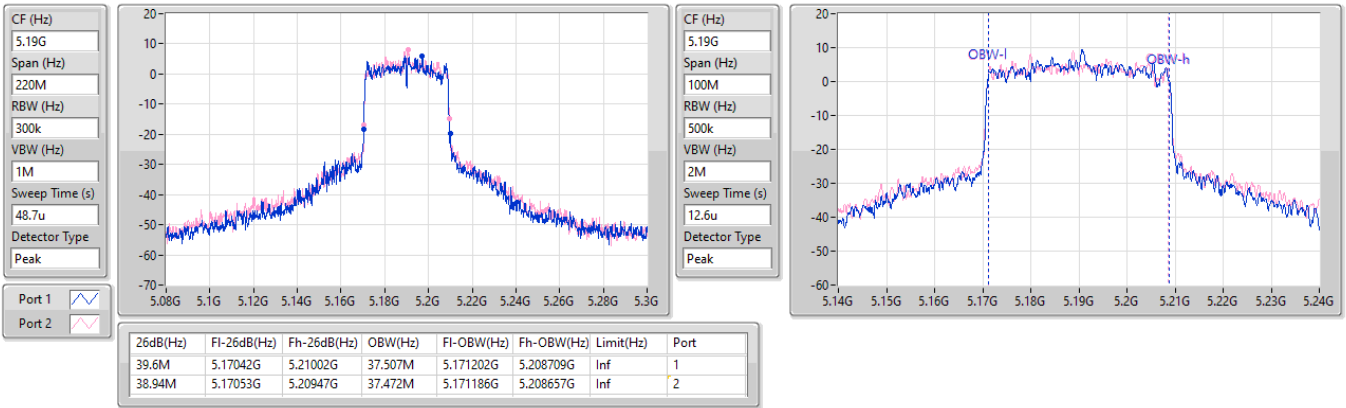


5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5190MHz

27/12/2023

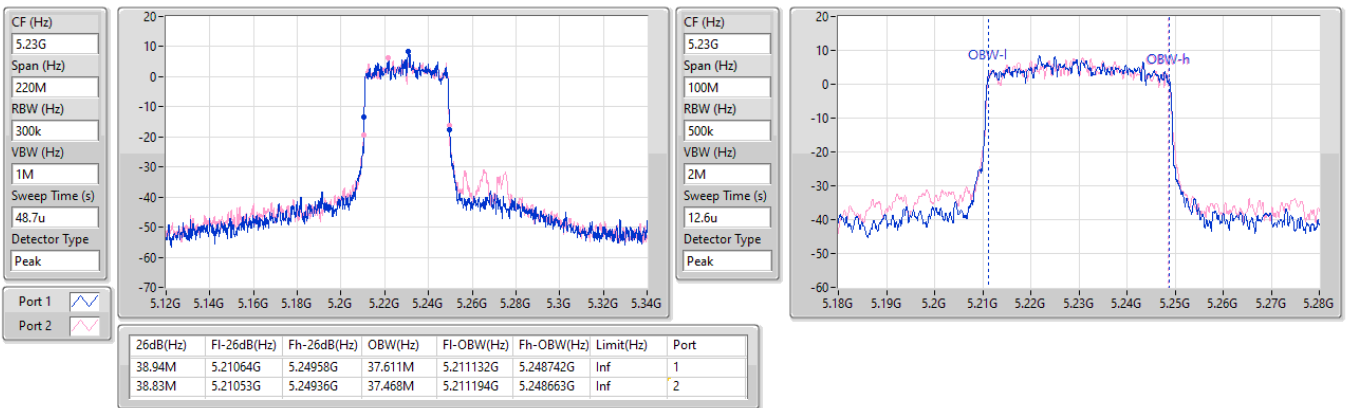


5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5230MHz

27/12/2023

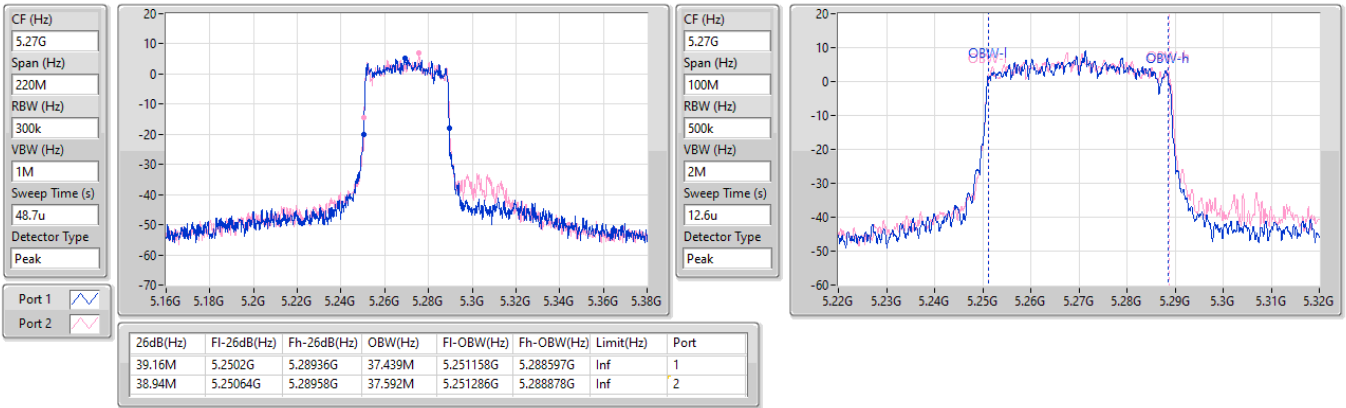


5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5270MHz

27/12/2023

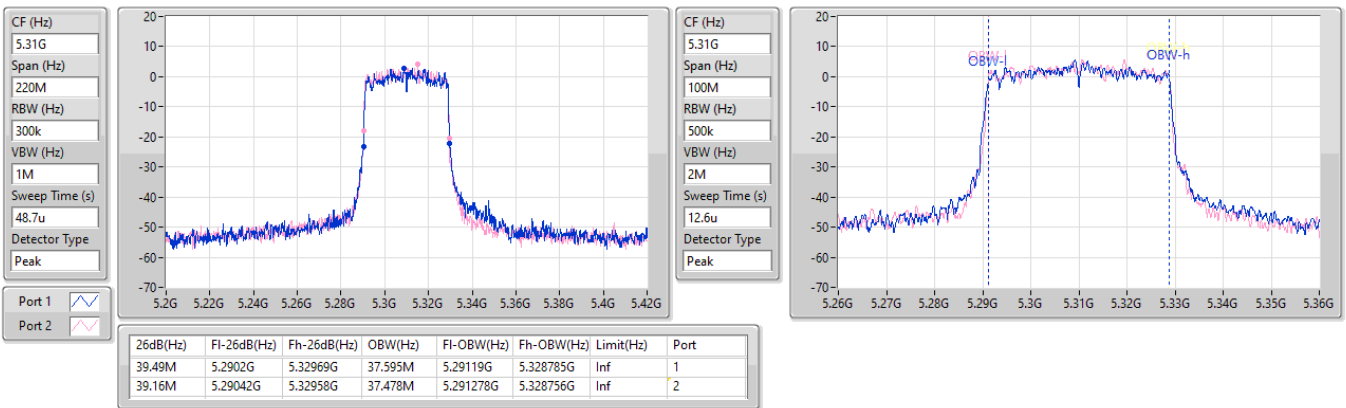


5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5310MHz

27/12/2023

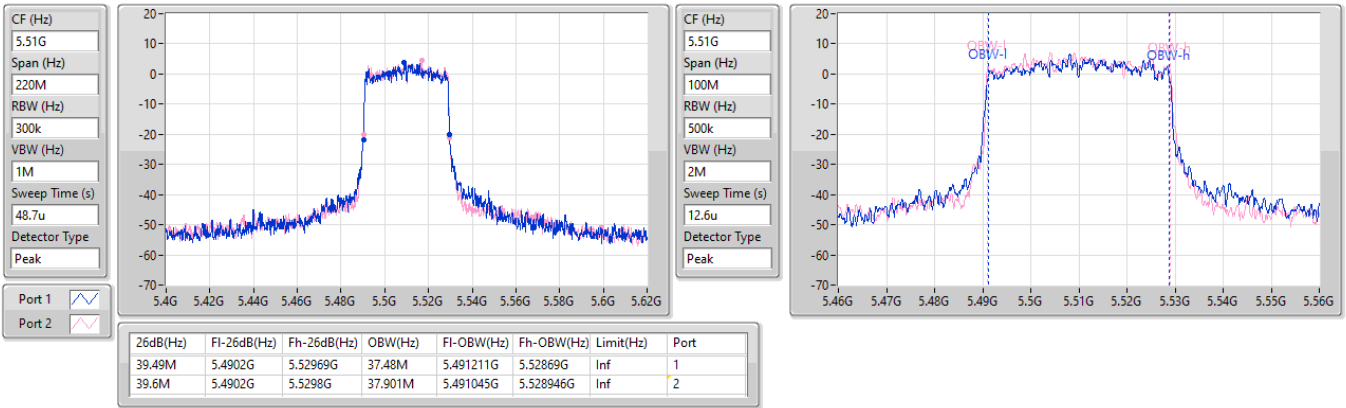


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5510MHz

27/12/2023

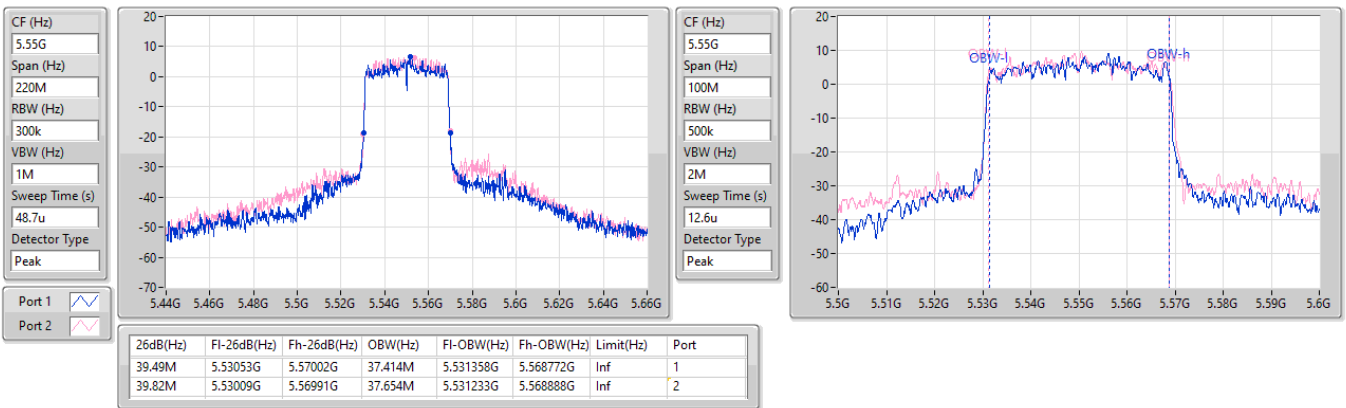


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5550MHz

27/12/2023

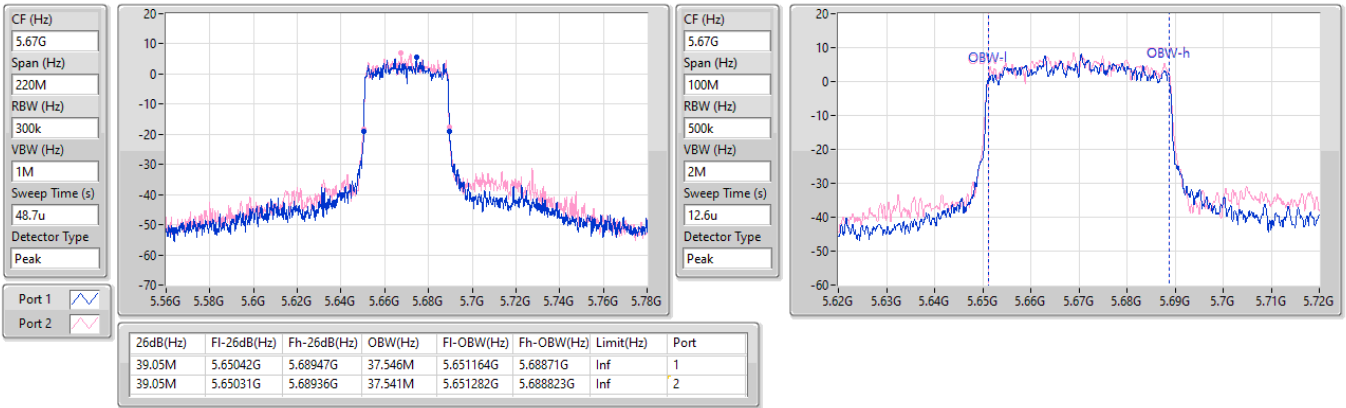


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5670MHz

27/12/2023

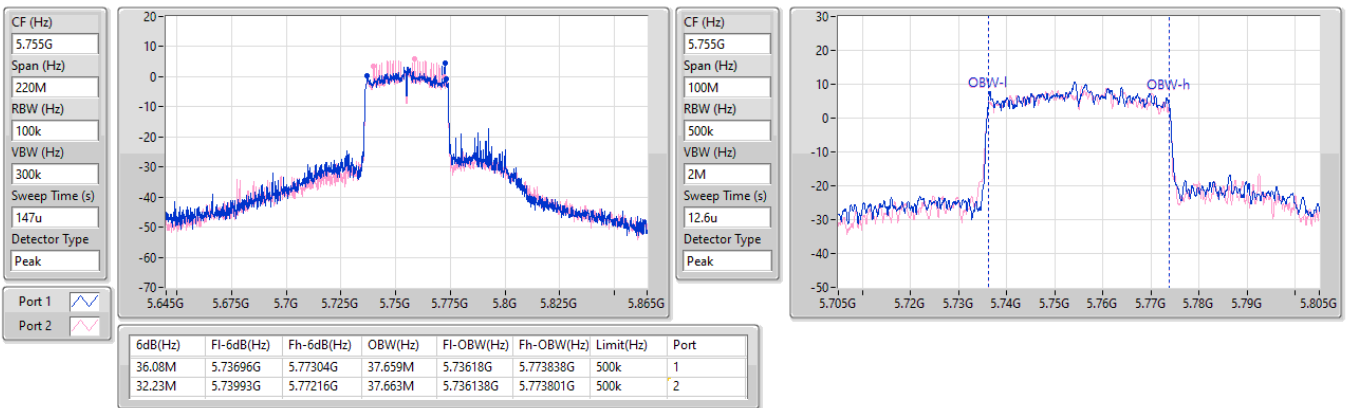


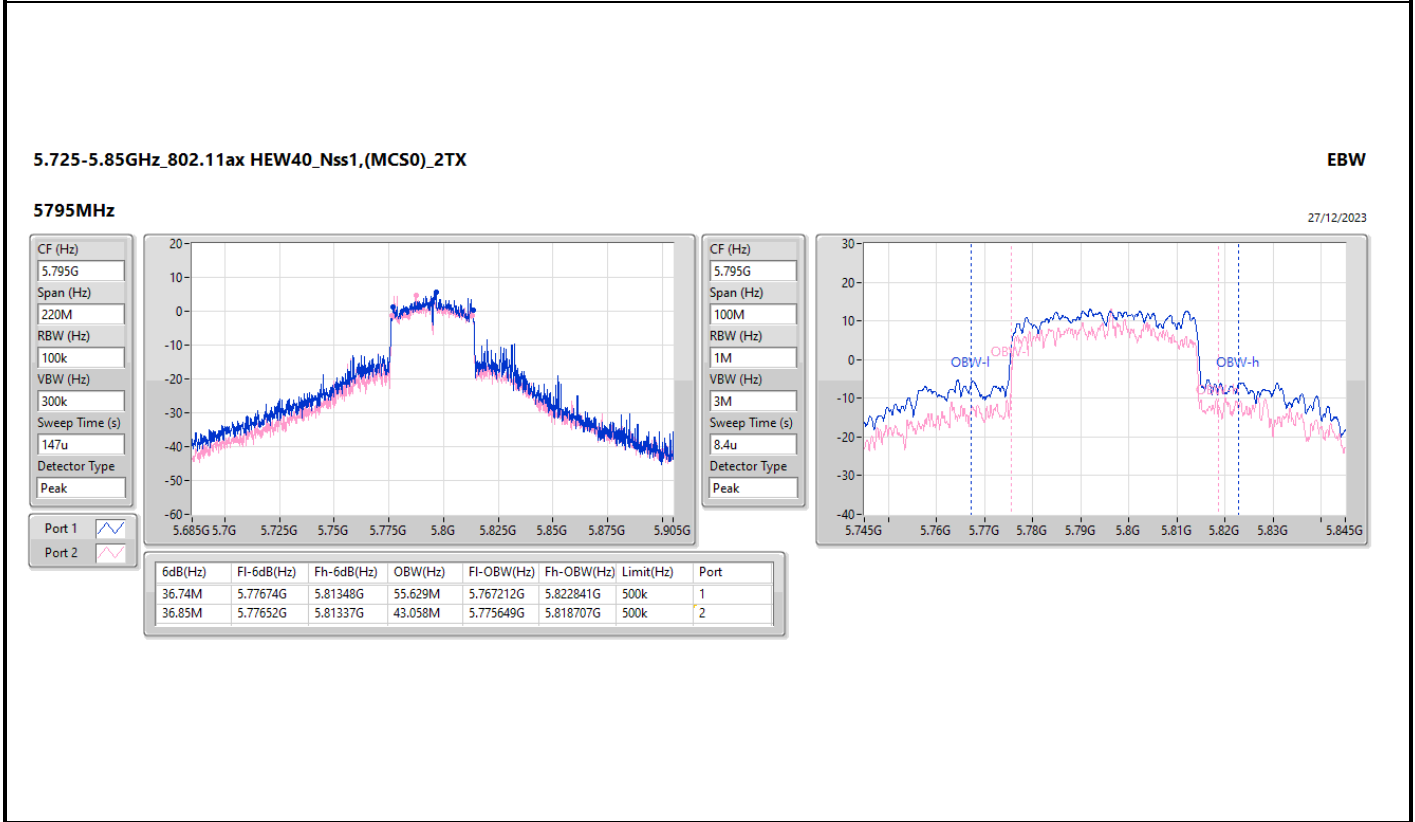
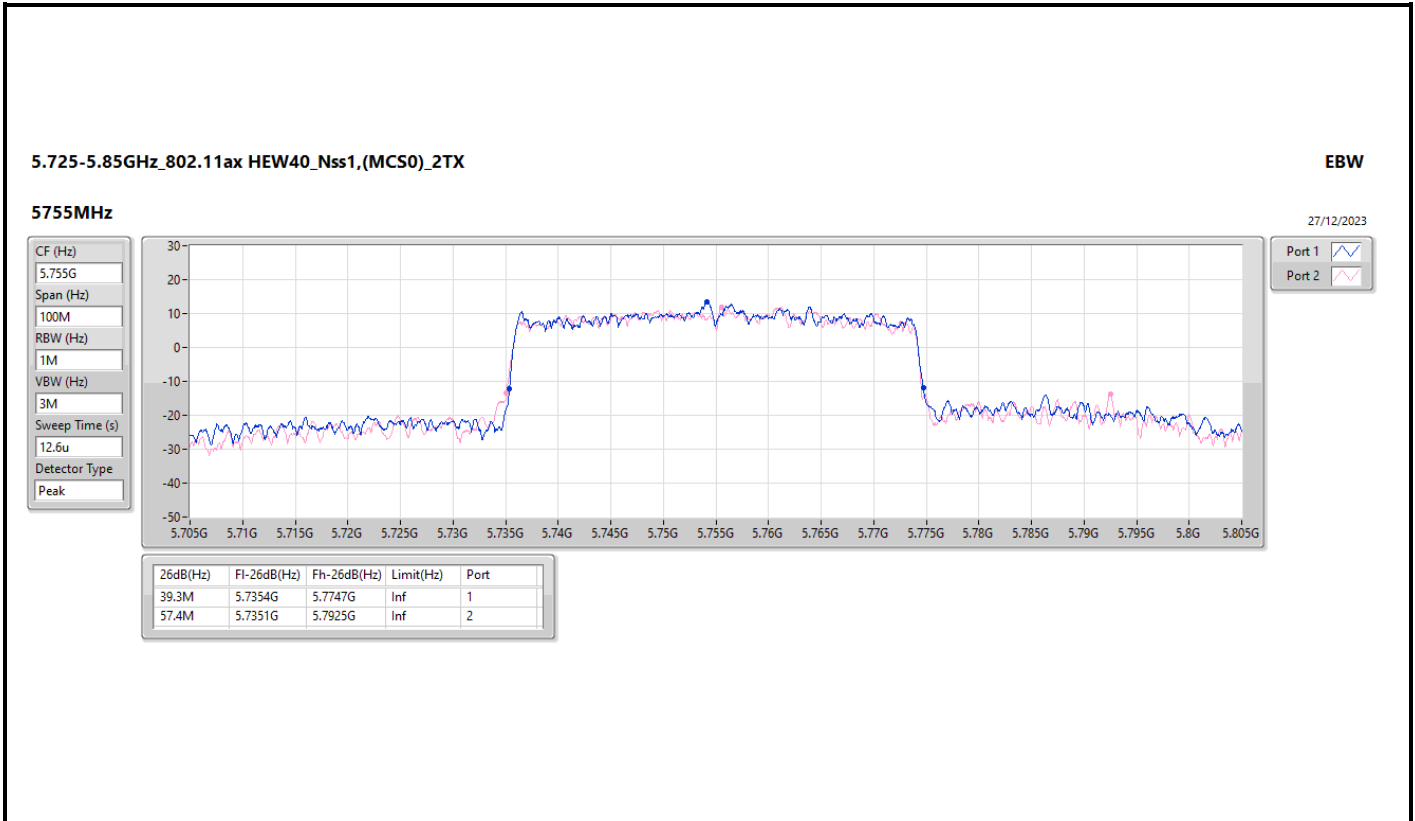
5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

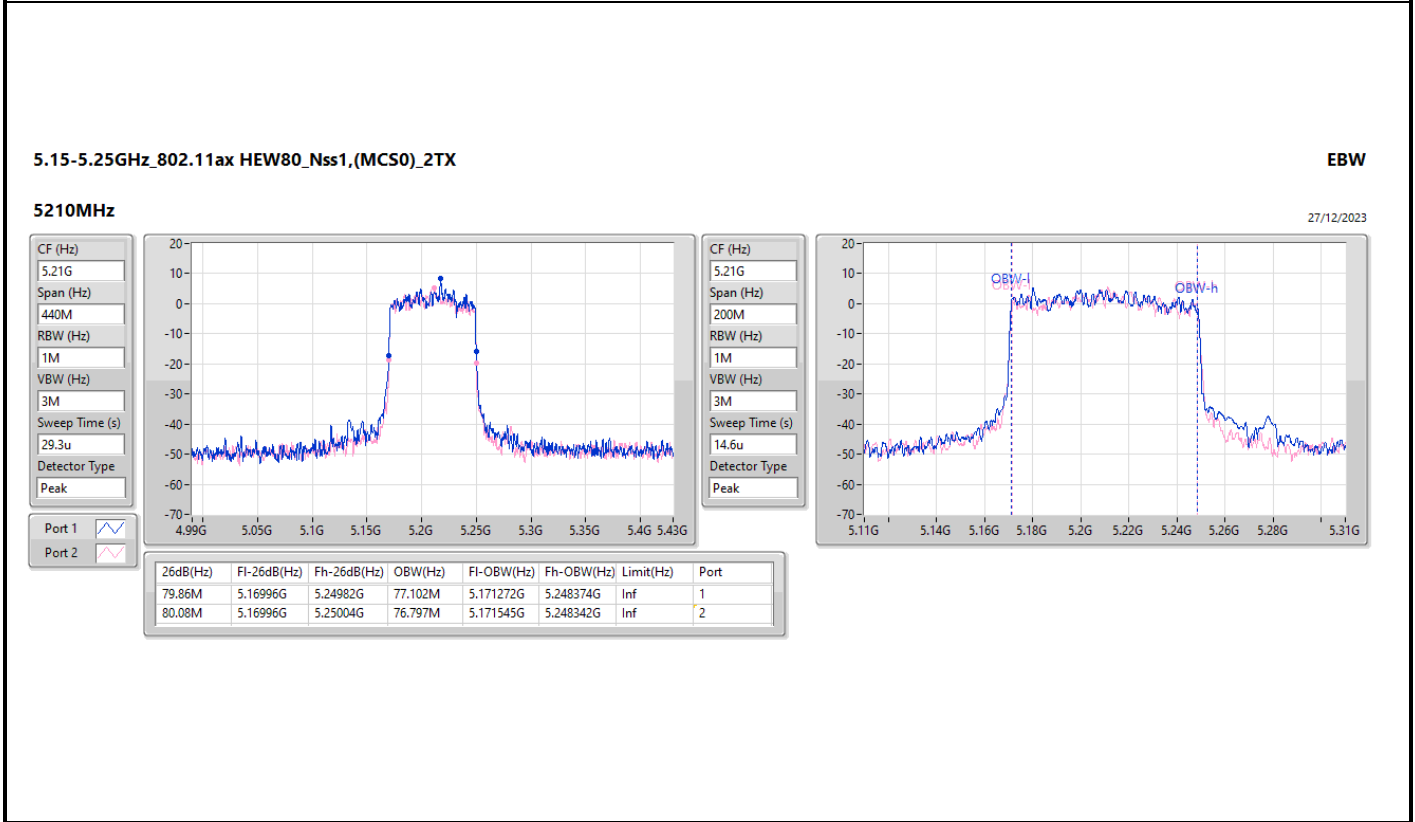
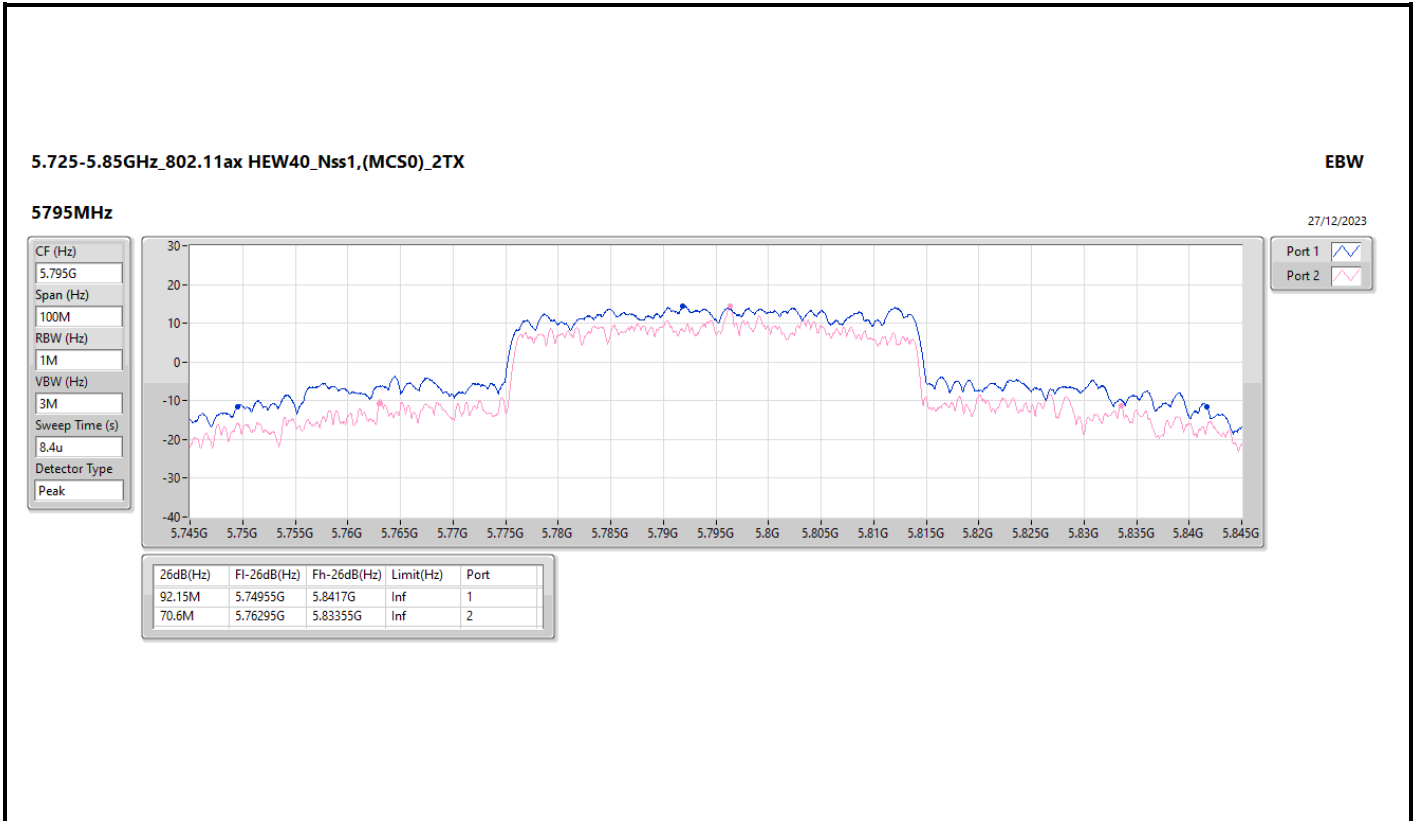
EBW

5755MHz

27/12/2023





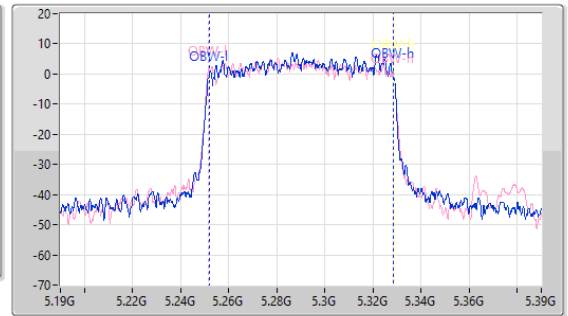
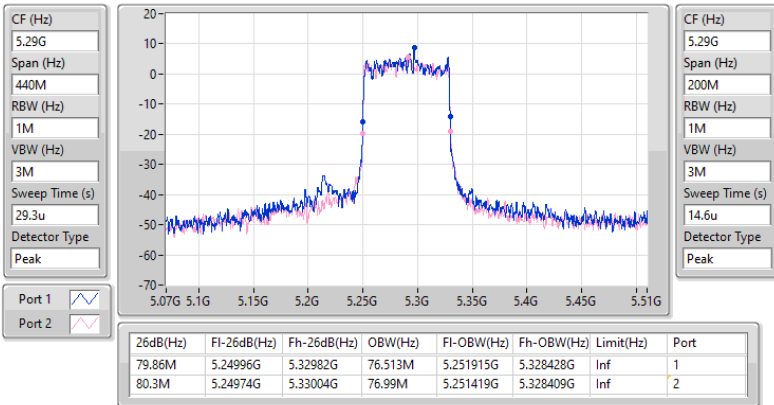


5.25-5.35GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5290MHz

27/12/2023

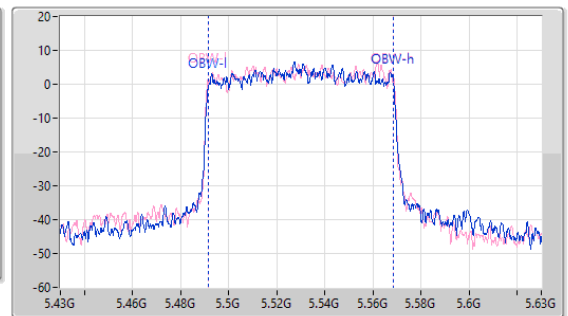
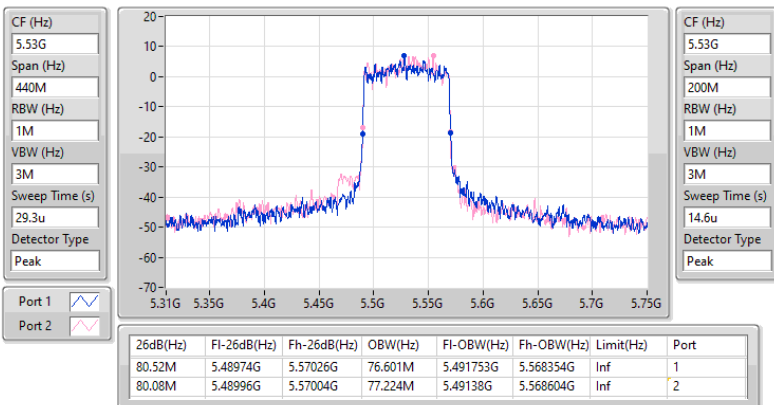


5.47-5.725GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5530MHz

27/12/2023

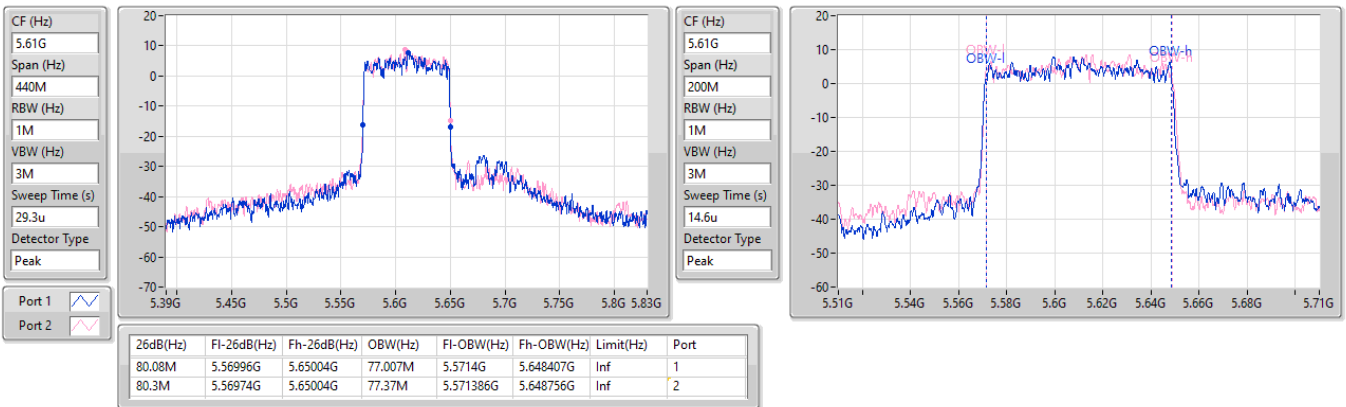


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5610MHz

27/12/2023

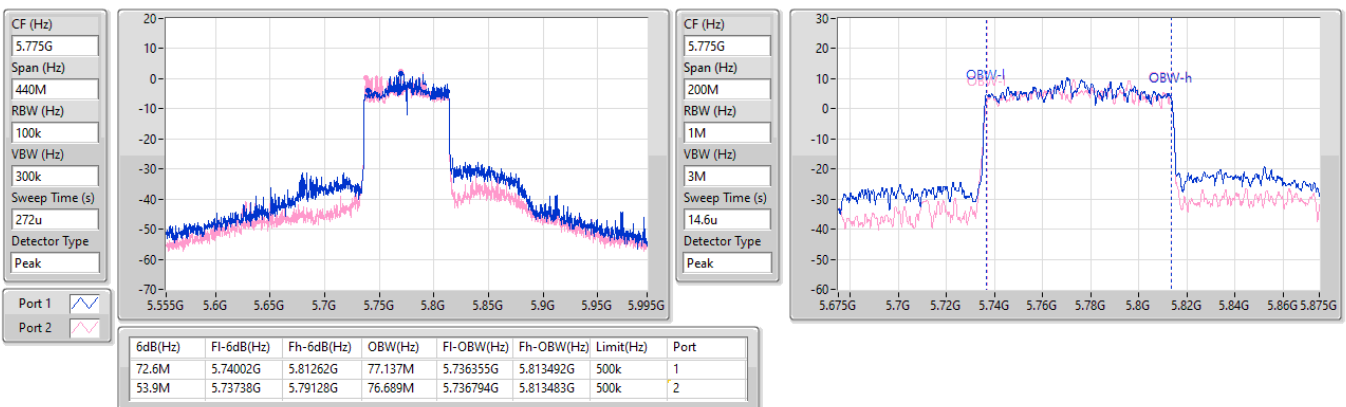


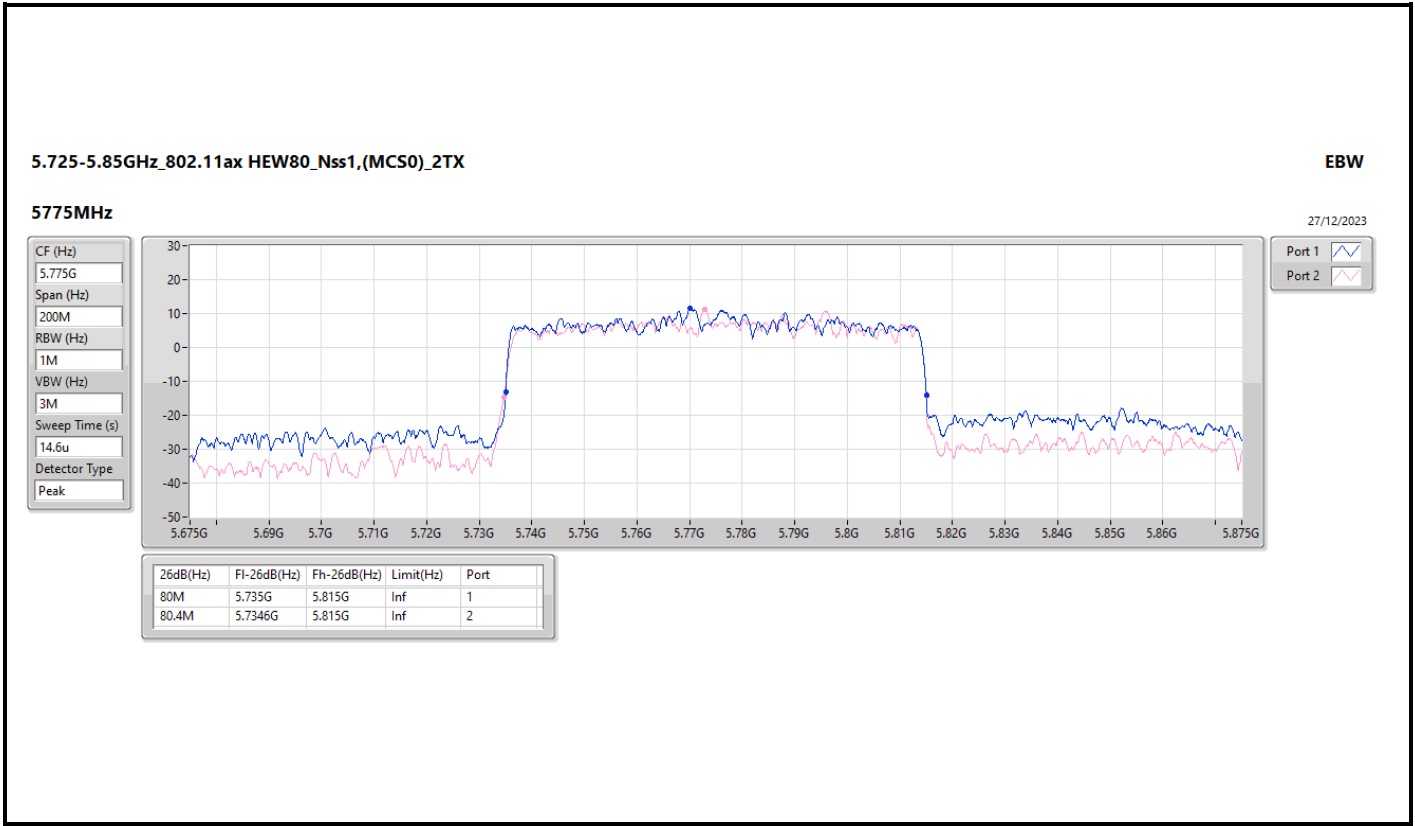
5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

27/12/2023







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)_1TX	20.955M	16.665M	16M7D1D	20.68M	16.501M
802.11ax HEW20_Nss1,(MCS0)_1TX	20.845M	19.011M	19M0D1D	20.625M	18.955M
802.11ax HEW40_Nss1,(MCS0)_1TX	39.93M	37.905M	37M9D1D	39.82M	37.506M
802.11ax HEW80_Nss1,(MCS0)_1TX	80.74M	77.069M	77M1D1D	80.74M	77.069M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.735M	16.602M	16M6D1D	20.46M	16.553M
802.11ax HEW20_Nss1,(MCS0)_1TX	20.955M	18.953M	19M0D1D	20.79M	18.916M
802.11ax HEW40_Nss1,(MCS0)_1TX	39.6M	37.573M	37M6D1D	39.27M	37.568M
802.11ax HEW80_Nss1,(MCS0)_1TX	80.3M	77.143M	77M1D1D	80.3M	77.143M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.735M	16.748M	16M7D1D	20.515M	16.548M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.175M	19.146M	19M1D1D	21.01M	19.016M
802.11ax HEW40_Nss1,(MCS0)_1TX	39.71M	37.709M	37M7D1D	39.16M	37.499M
802.11ax HEW80_Nss1,(MCS0)_1TX	80.74M	77.181M	77M2D1D	80.08M	77.004M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.335M	16.819M	16M8D1D	15.565M	16.636M
802.11ax HEW20_Nss1,(MCS0)_1TX	19.03M	19.066M	19M1D1D	18.04M	18.99M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.07M	37.849M	37M8D1D	36.63M	37.809M
802.11ax HEW80_Nss1,(MCS0)_1TX	76.12M	77.44M	77M4D1D	76.12M	77.44M

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)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	20.68M	16.501M
5200MHz	Pass	Inf	20.955M	16.665M
5240MHz	Pass	Inf	20.68M	16.585M
5260MHz	Pass	Inf	20.46M	16.602M
5300MHz	Pass	Inf	20.735M	16.575M
5320MHz	Pass	Inf	20.57M	16.553M
5500MHz	Pass	Inf	20.735M	16.748M
5580MHz	Pass	Inf	20.57M	16.548M
5700MHz	Pass	Inf	20.515M	16.677M
5745MHz	Pass	500k	16.28M	16.819M
5785MHz	Pass	500k	15.565M	16.636M
5825MHz	Pass	500k	16.335M	16.657M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	20.625M	18.976M
5200MHz	Pass	Inf	20.845M	19.011M
5240MHz	Pass	Inf	20.68M	18.955M
5260MHz	Pass	Inf	20.955M	18.953M
5300MHz	Pass	Inf	20.955M	18.936M
5320MHz	Pass	Inf	20.79M	18.916M
5500MHz	Pass	Inf	21.01M	19.036M
5580MHz	Pass	Inf	21.065M	19.016M
5700MHz	Pass	Inf	21.175M	19.146M
5745MHz	Pass	500k	19.03M	19.066M
5785MHz	Pass	500k	18.48M	18.99M
5825MHz	Pass	500k	18.04M	19.027M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	39.82M	37.506M
5230MHz	Pass	Inf	39.93M	37.905M
5270MHz	Pass	Inf	39.6M	37.568M
5310MHz	Pass	Inf	39.27M	37.573M
5510MHz	Pass	Inf	39.71M	37.709M
5550MHz	Pass	Inf	39.16M	37.617M
5670MHz	Pass	Inf	39.27M	37.499M
5755MHz	Pass	500k	36.63M	37.809M
5795MHz	Pass	500k	37.07M	37.849M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	80.74M	77.069M
5290MHz	Pass	Inf	80.3M	77.143M
5530MHz	Pass	Inf	80.08M	77.004M
5610MHz	Pass	Inf	80.74M	77.181M
5775MHz	Pass	500k	76.12M	77.44M

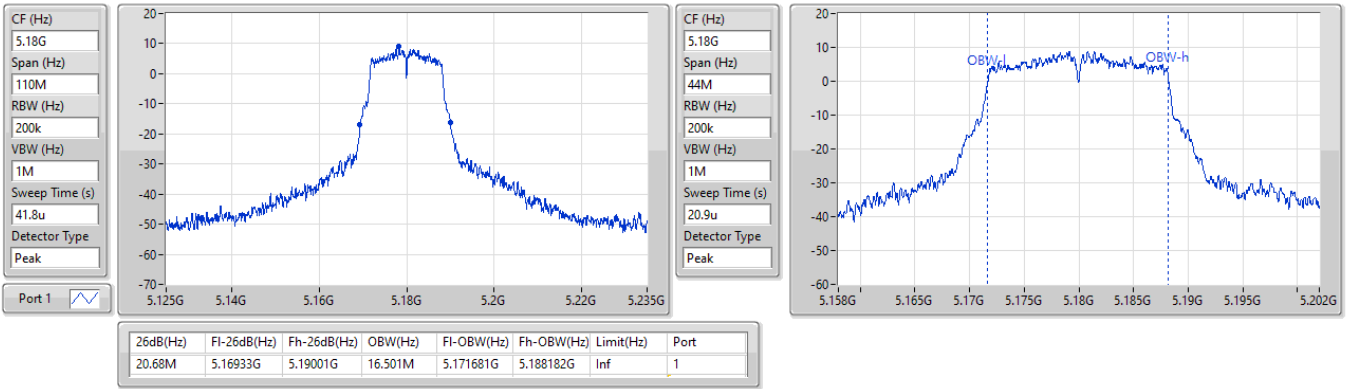
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

21/12/2023

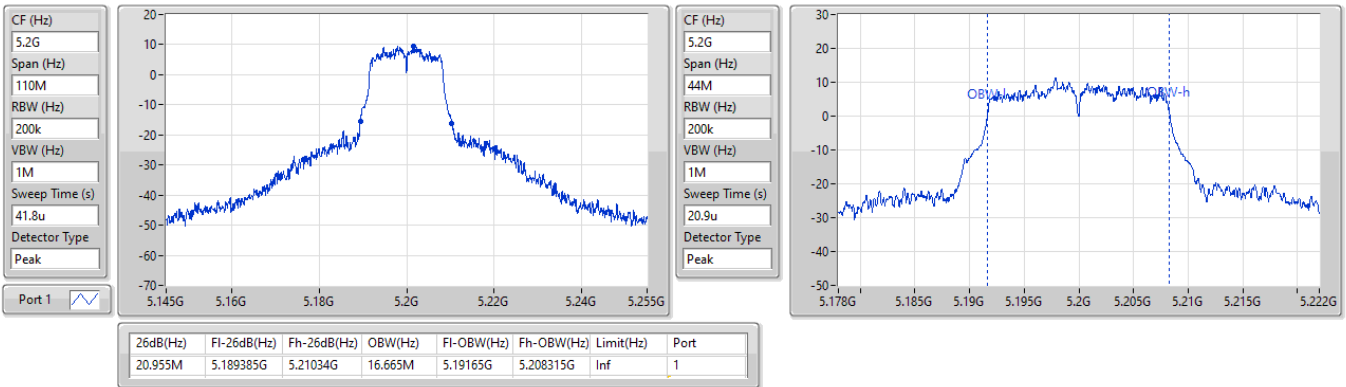


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

21/12/2023

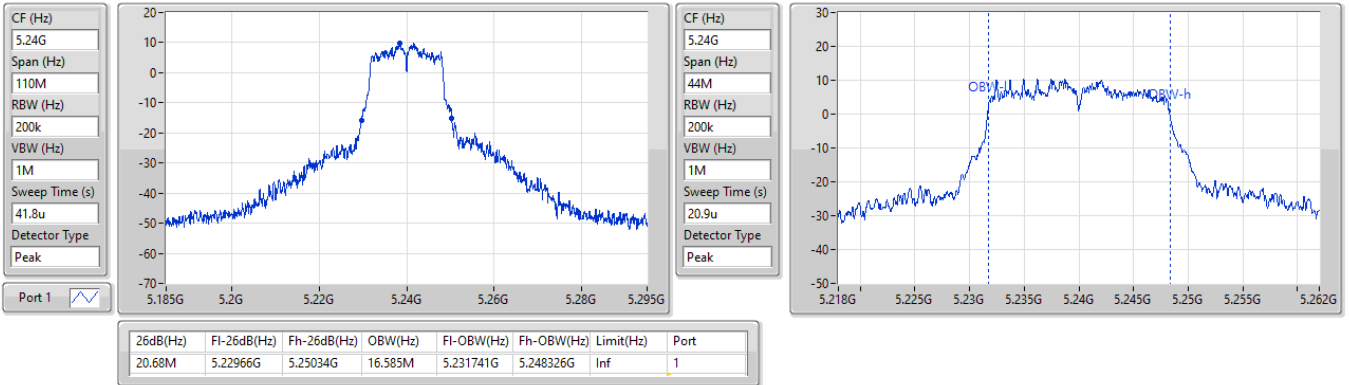


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

21/12/2023

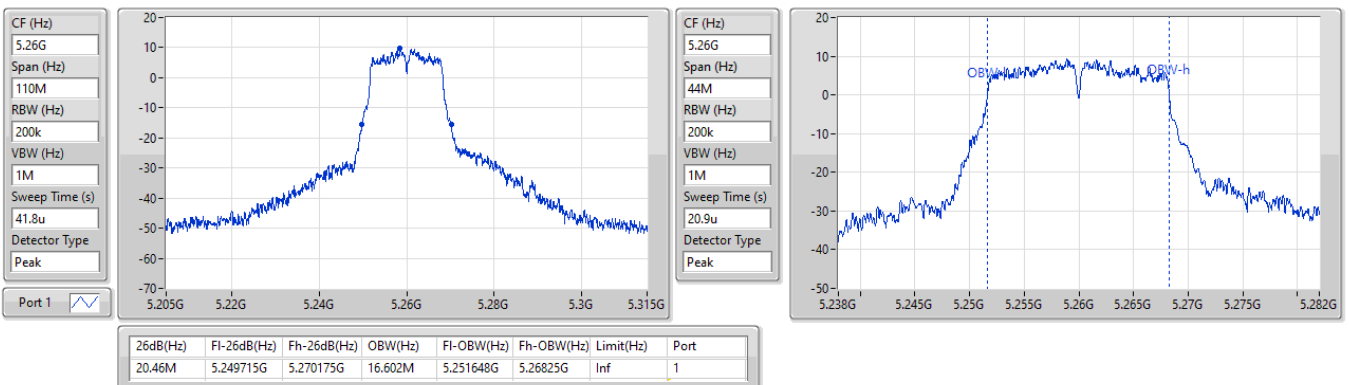


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5260MHz

21/12/2023

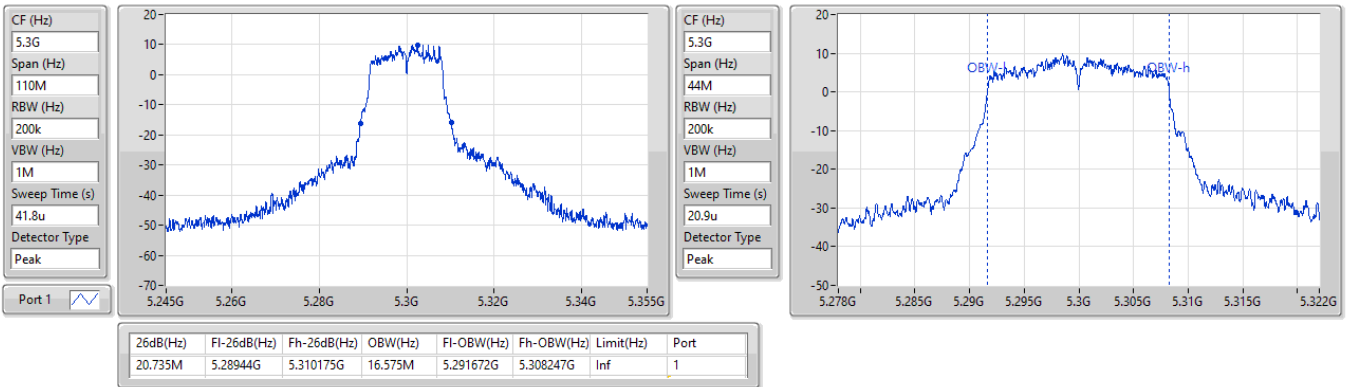


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5300MHz

21/12/2023

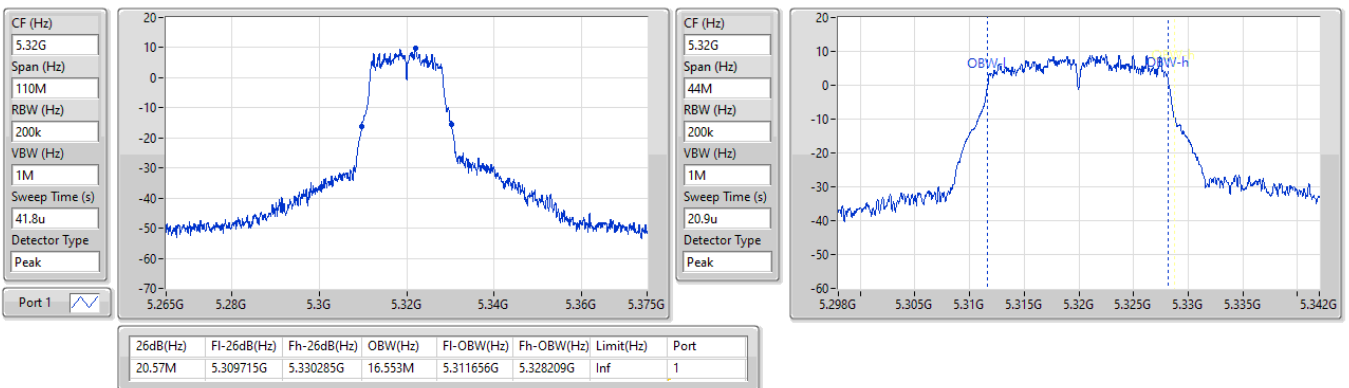


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5320MHz

21/12/2023

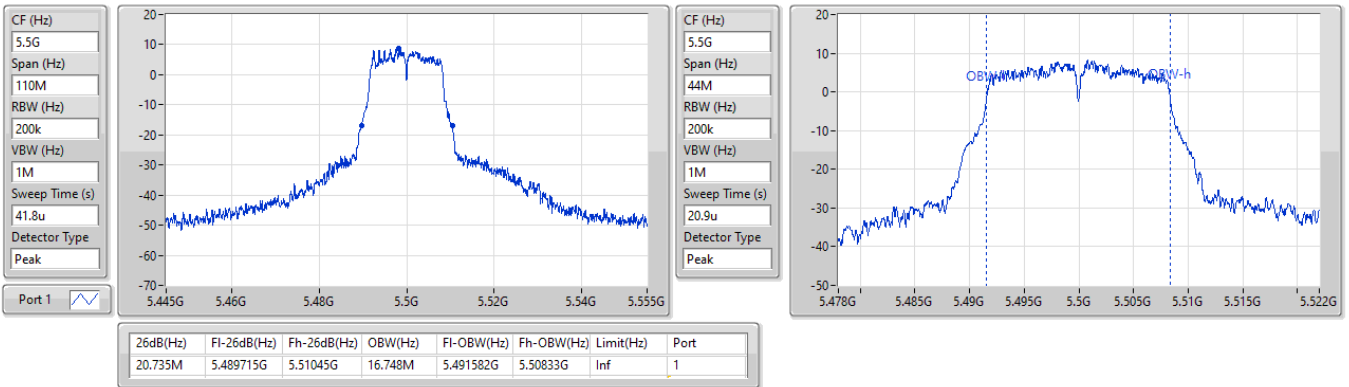


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5500MHz

21/12/2023

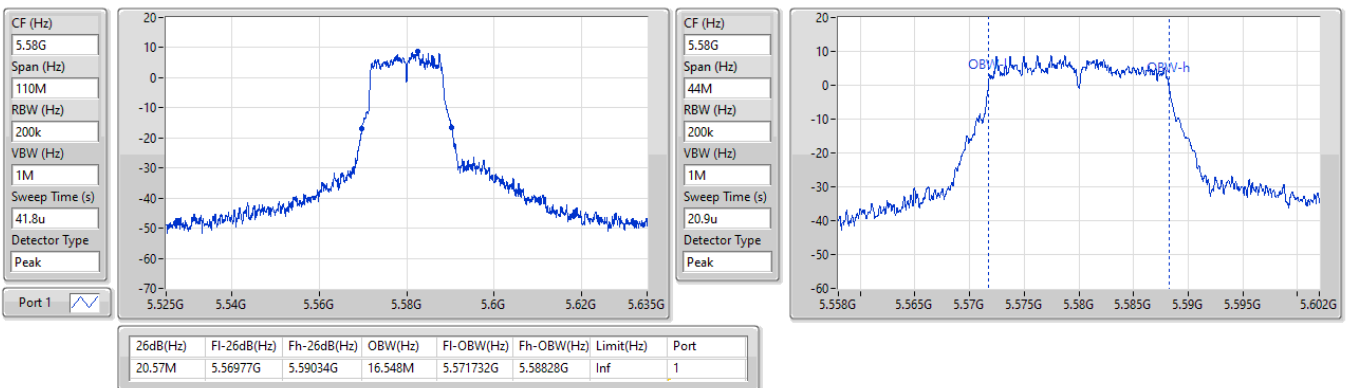


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5580MHz

21/12/2023



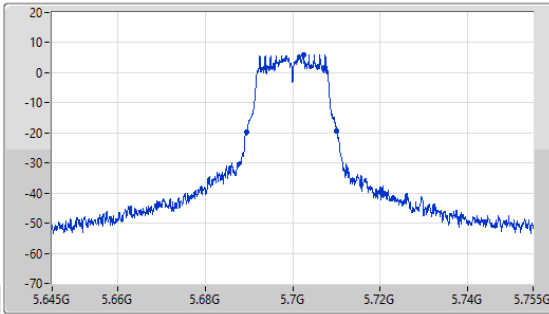
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

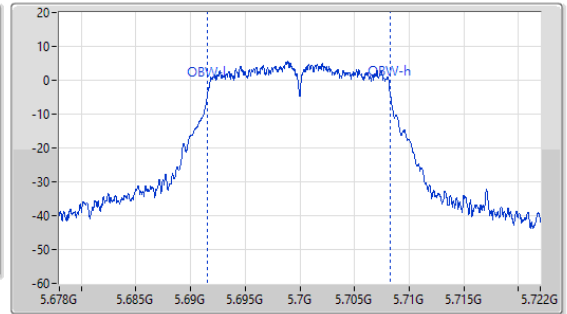
5700MHz

21/12/2023

CF (Hz)
5.7G
Span (Hz)
110M
RBW (Hz)
200k
VBW (Hz)
1M
Sweep Time (s)
41.8u
Detector Type
Peak



CF (Hz)
5.7G
Span (Hz)
44M
RBW (Hz)
200k
VBW (Hz)
1M
Sweep Time (s)
20.9u
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.515M	5.68955G	5.710065G	16.677M	5.691572G	5.708249G	Inf	1

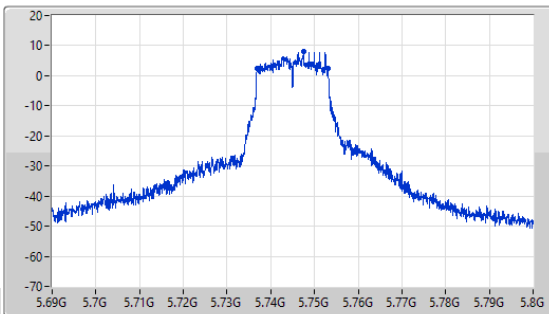
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

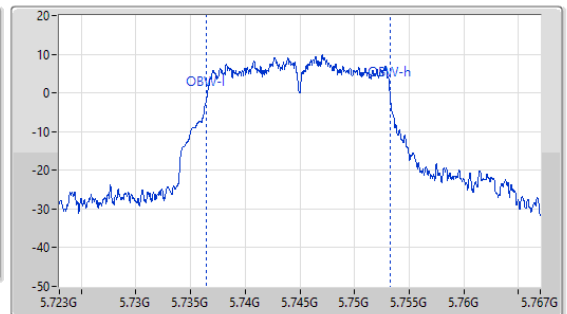
5745MHz

21/12/2023

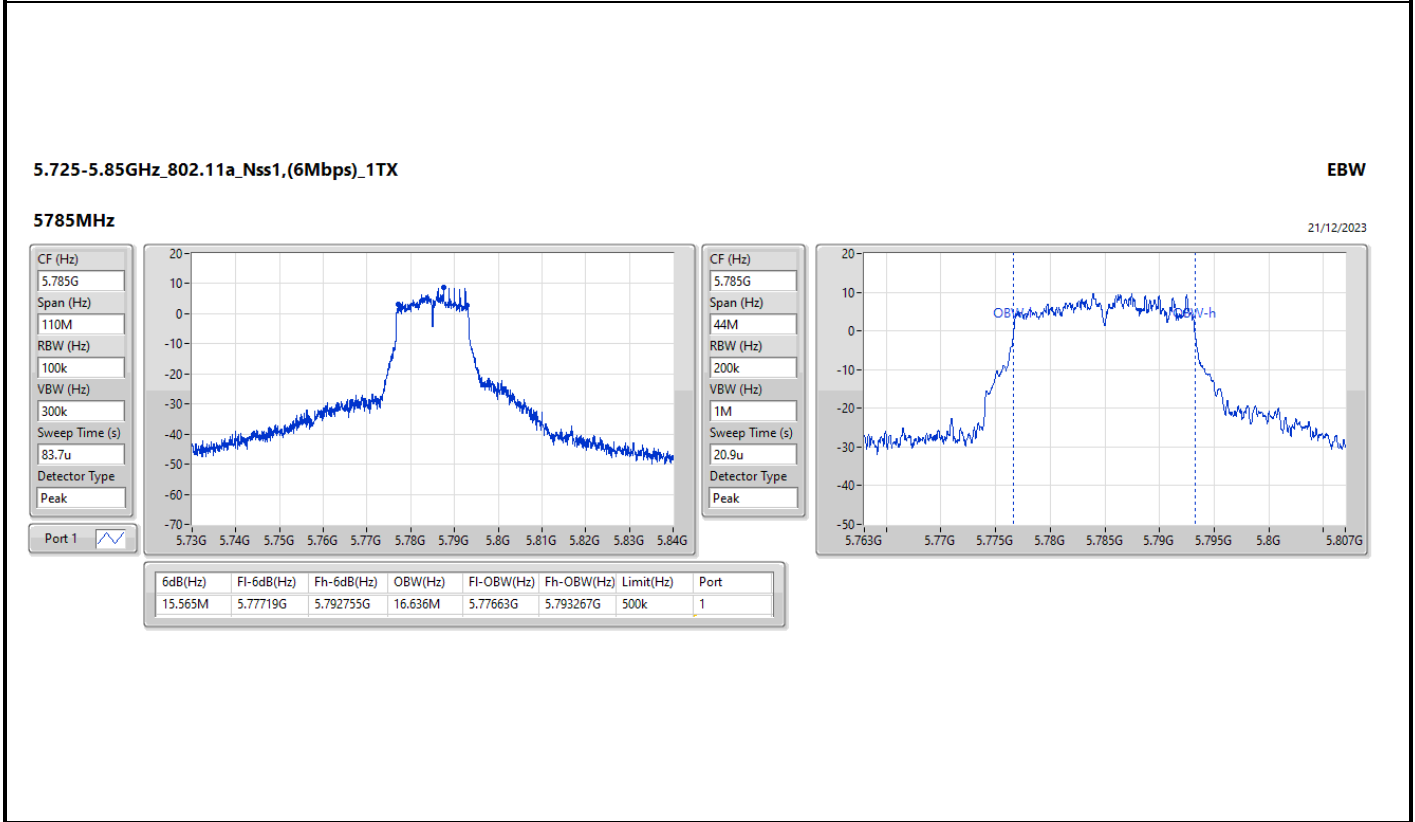
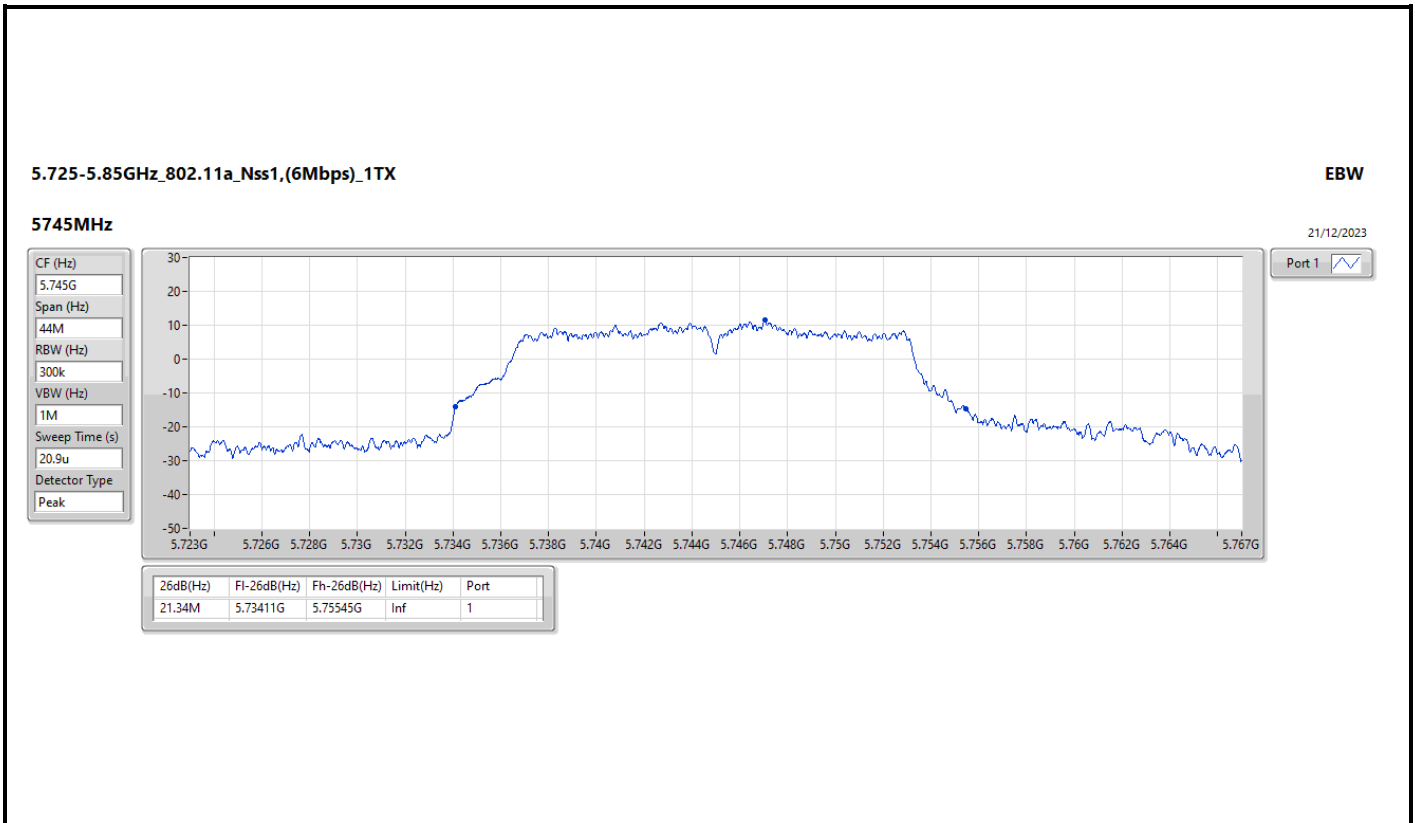
CF (Hz)
5.745G
Span (Hz)
110M
RBW (Hz)
100k
VBW (Hz)
300k
Sweep Time (s)
83.7u
Detector Type
Peak

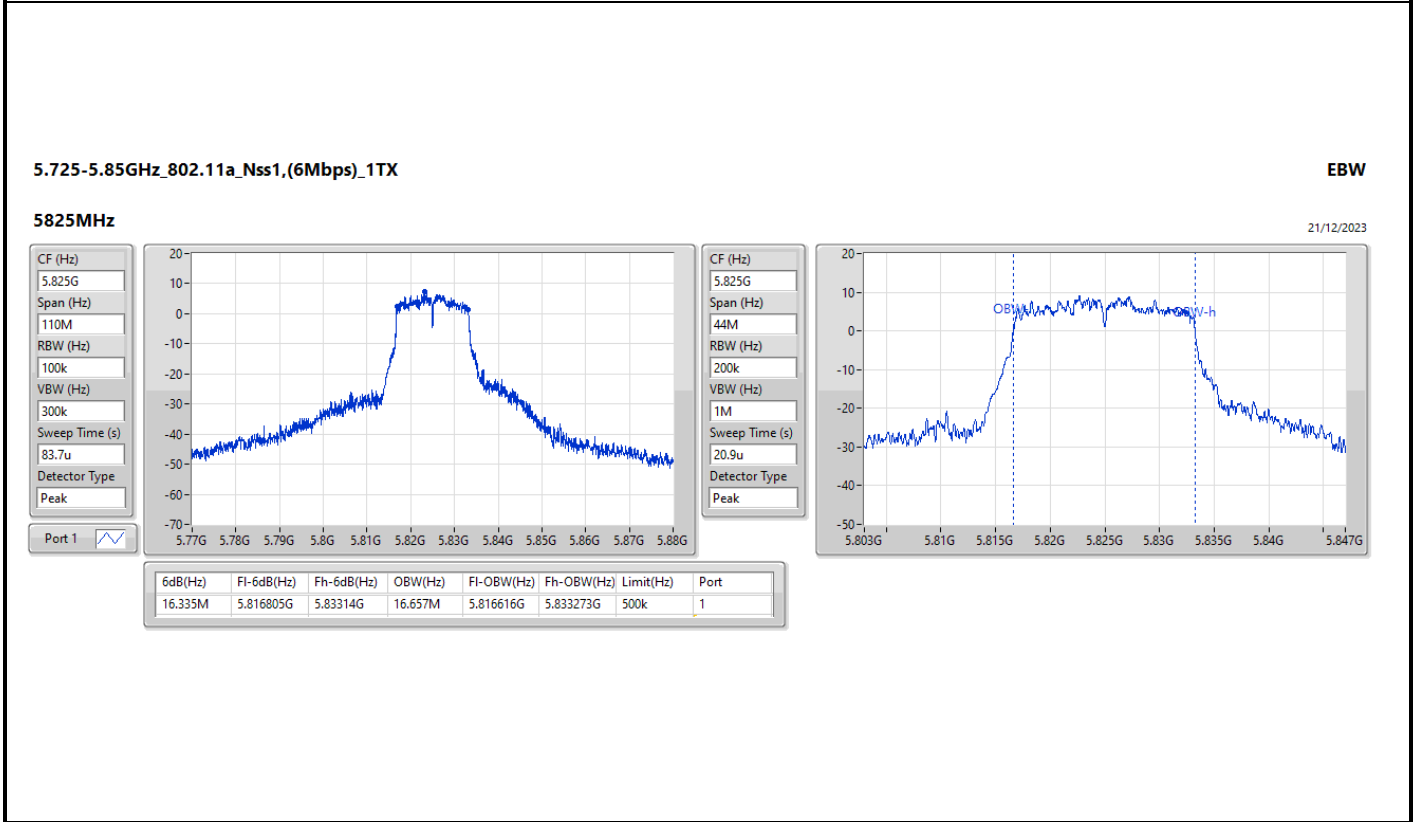
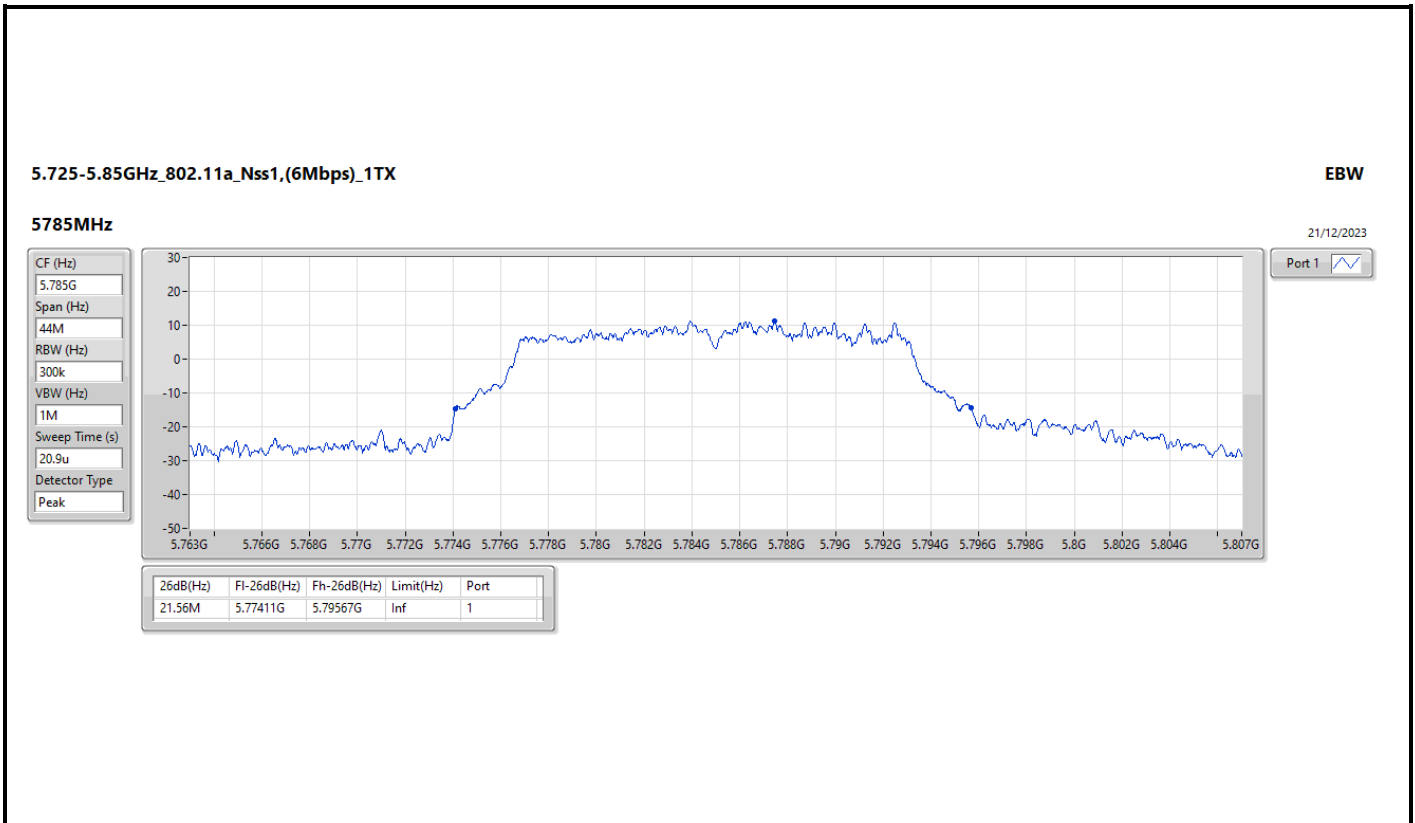


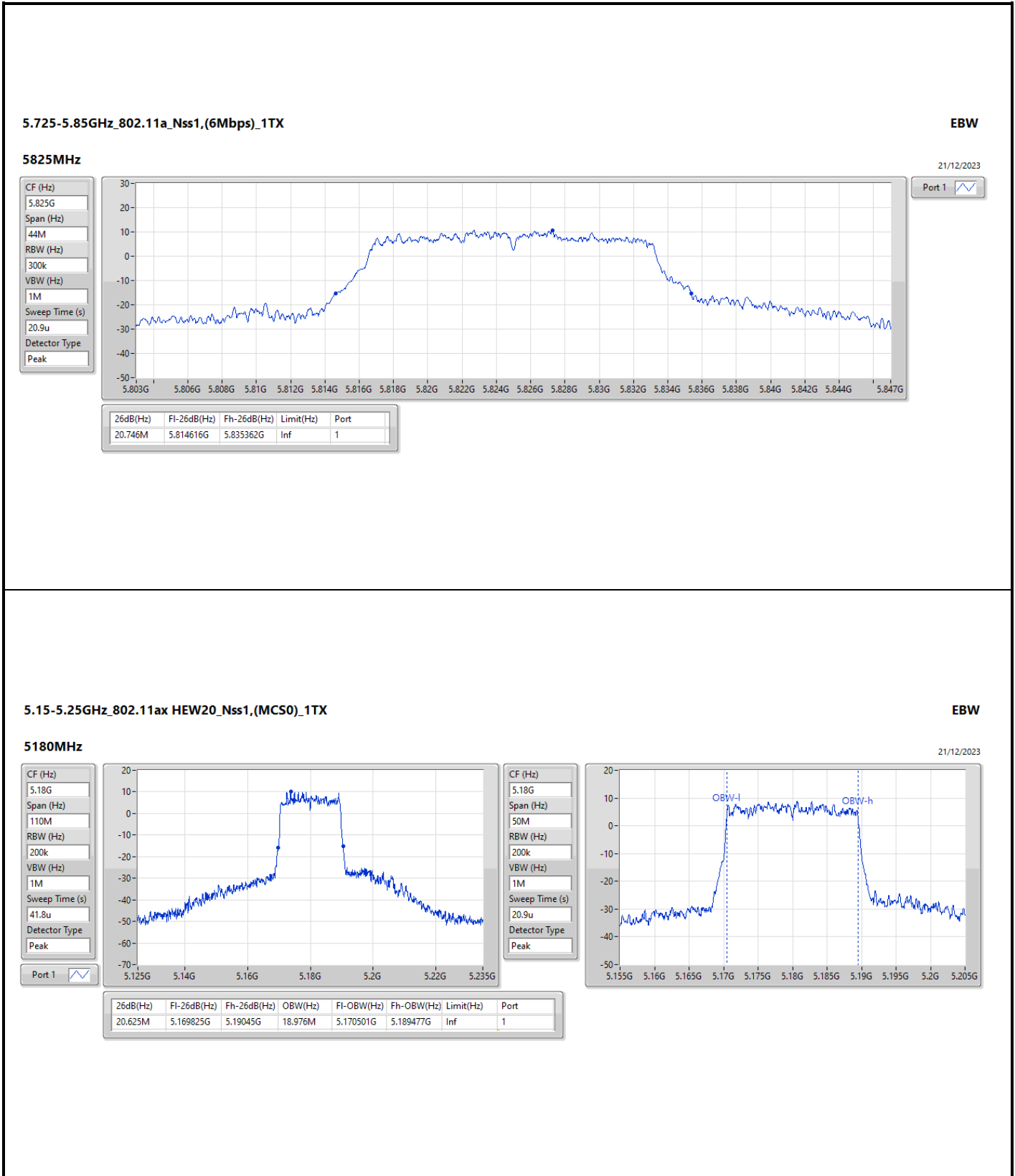
CF (Hz)
5.745G
Span (Hz)
44M
RBW (Hz)
200k
VBW (Hz)
1M
Sweep Time (s)
20.9u
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.28M	5.736805G	5.753085G	16.819M	5.736412G	5.753231G	500k	1





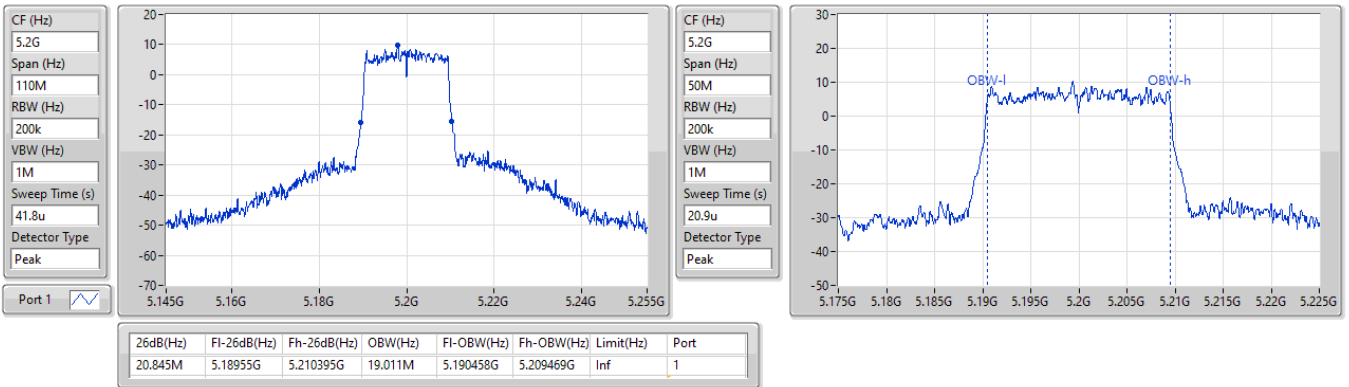


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

21/12/2023

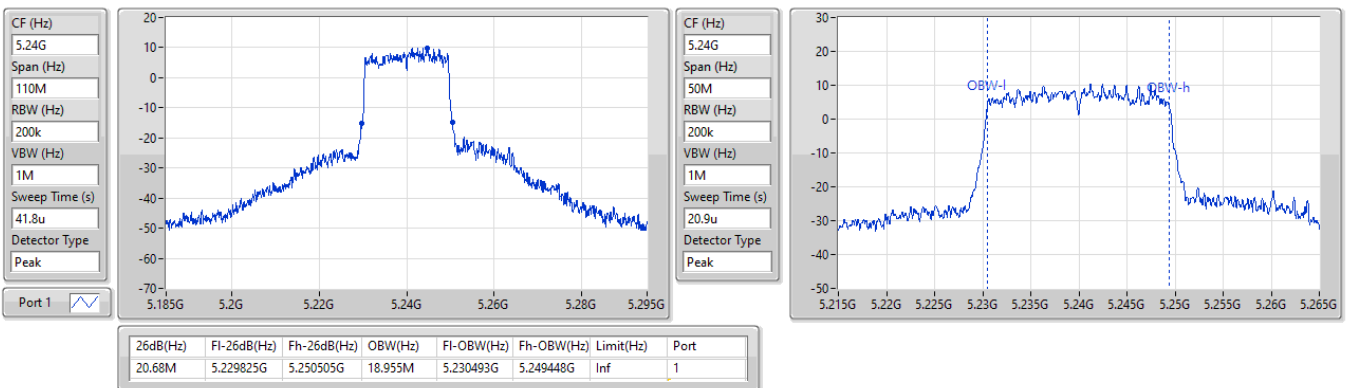


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

21/12/2023

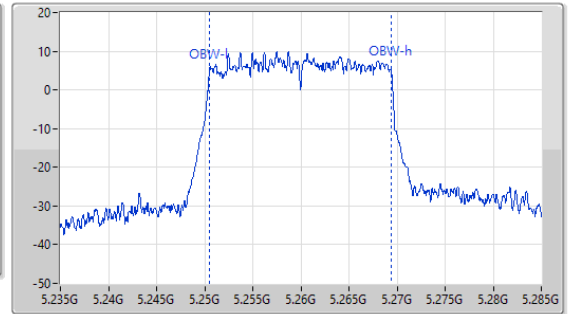
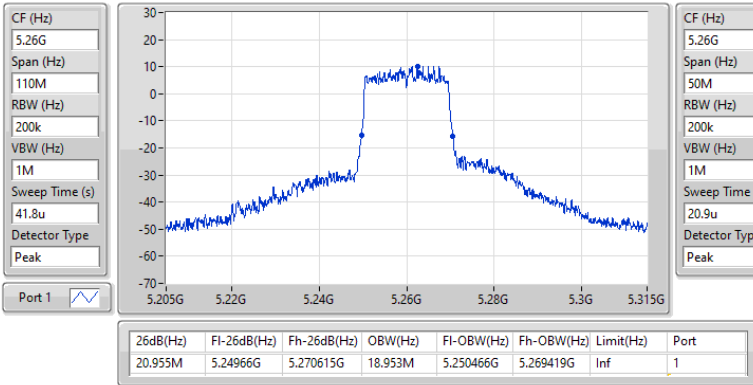


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

EBW

5260MHz

21/12/2023

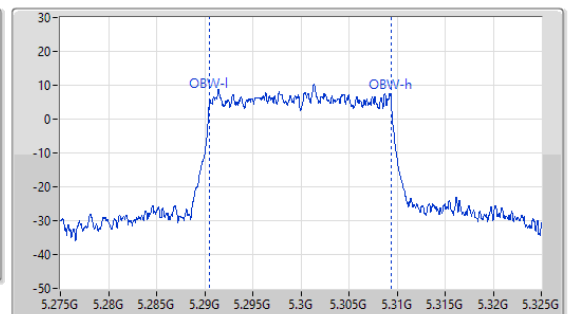
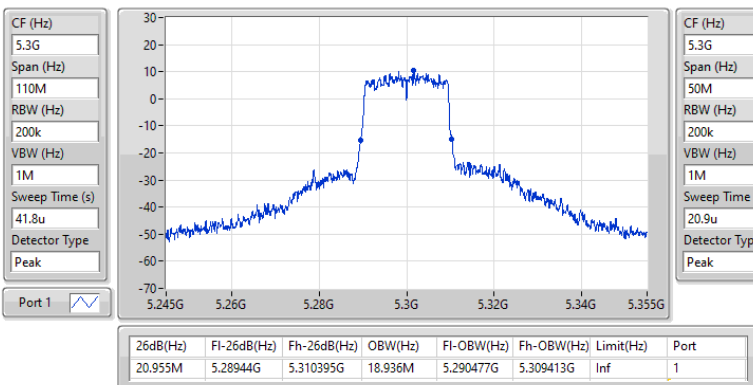


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

EBW

5300MHz

21/12/2023

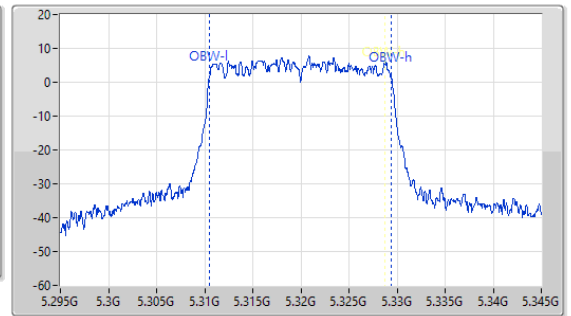
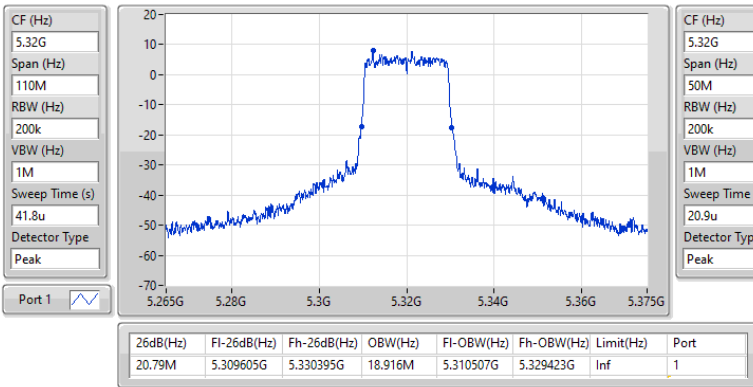


5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5320MHz

21/12/2023

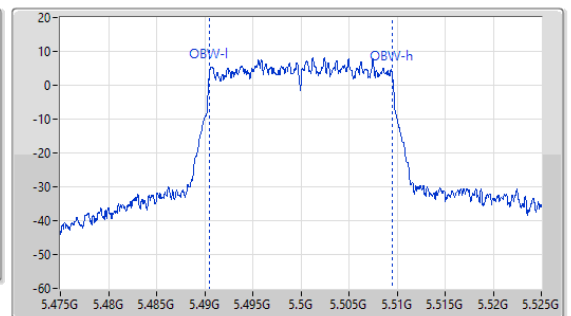
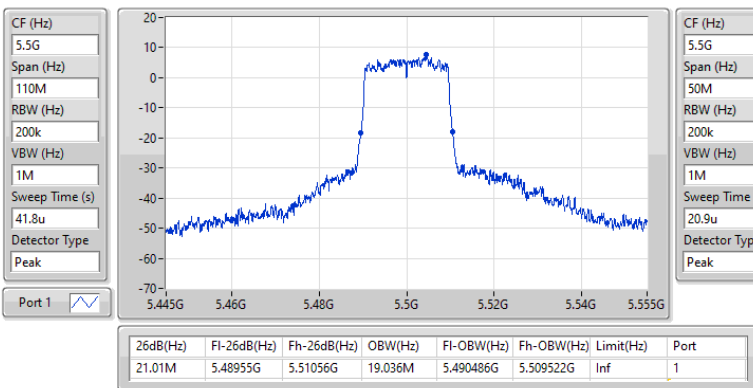


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5500MHz

21/12/2023



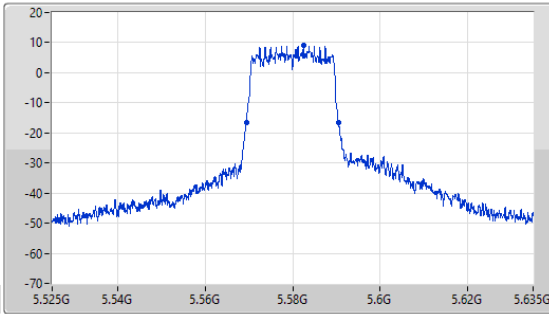
5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

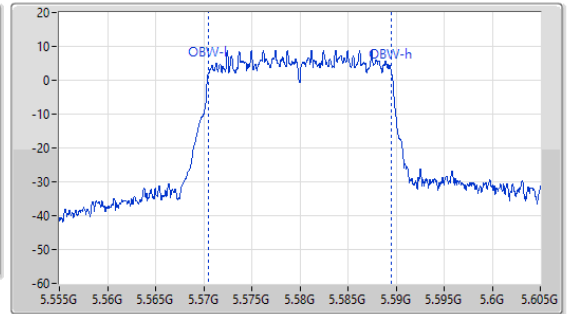
5580MHz

21/12/2023

CF (Hz)
5.58G
Span (Hz)
110M
RBW (Hz)
200k
VBW (Hz)
1M
Sweep Time (s)
41.8u
Detector Type
Peak



CF (Hz)
5.58G
Span (Hz)
50M
RBW (Hz)
200k
VBW (Hz)
1M
Sweep Time (s)
20.9u
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.065M	5.569385G	5.59045G	19.016M	5.570496G	5.589512G	Inf	1

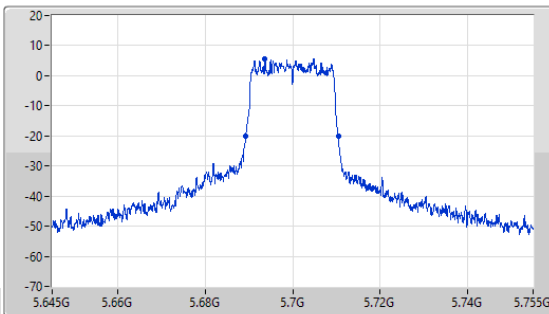
5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

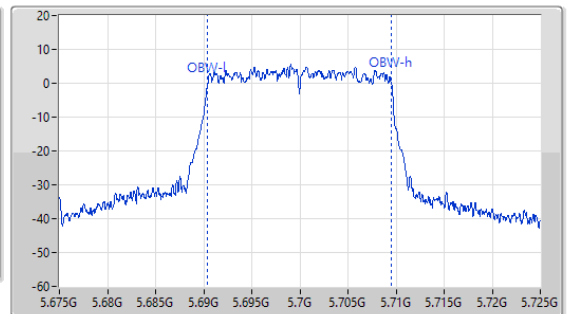
5700MHz

21/12/2023

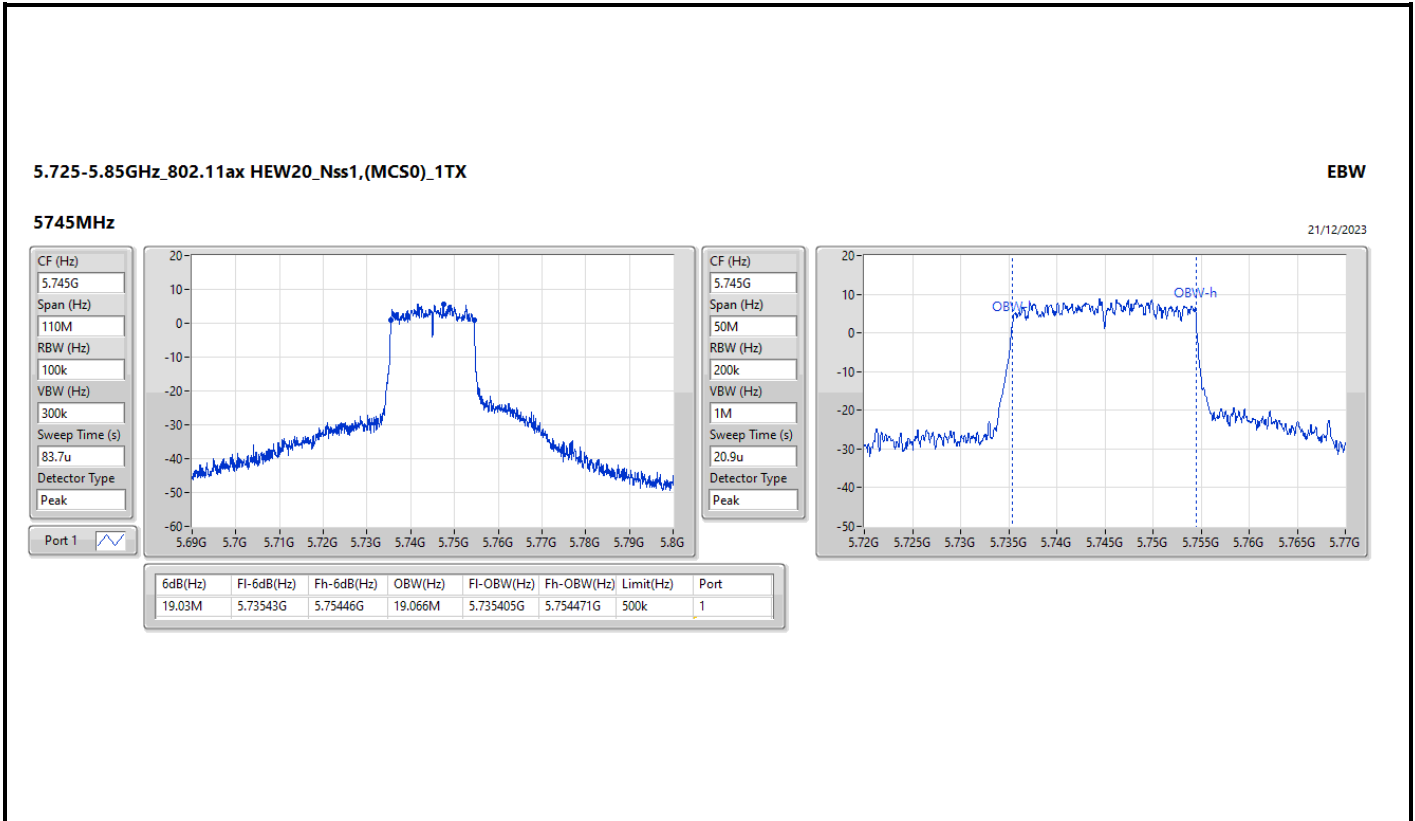
CF (Hz)
5.7G
Span (Hz)
110M
RBW (Hz)
200k
VBW (Hz)
1M
Sweep Time (s)
41.8u
Detector Type
Peak

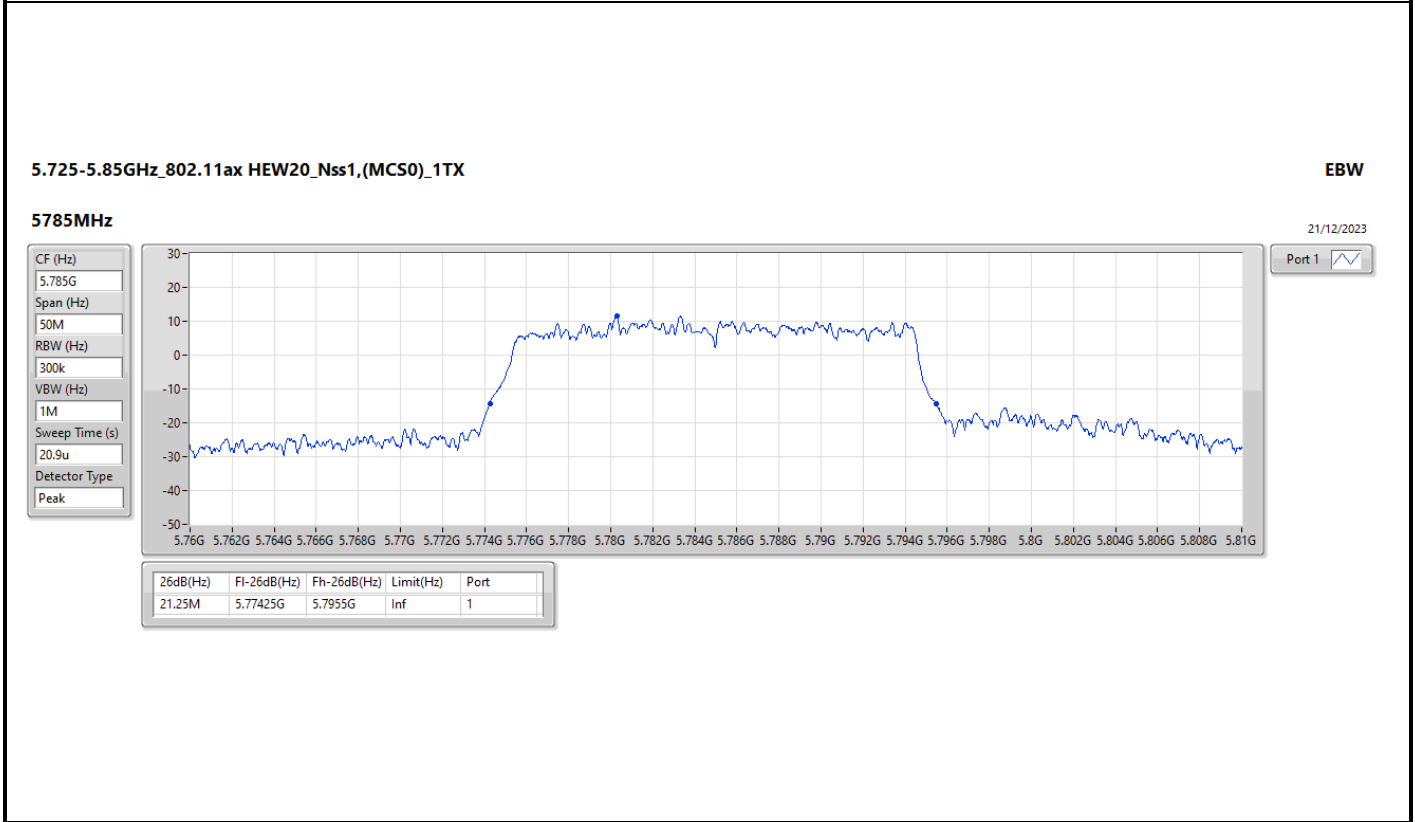
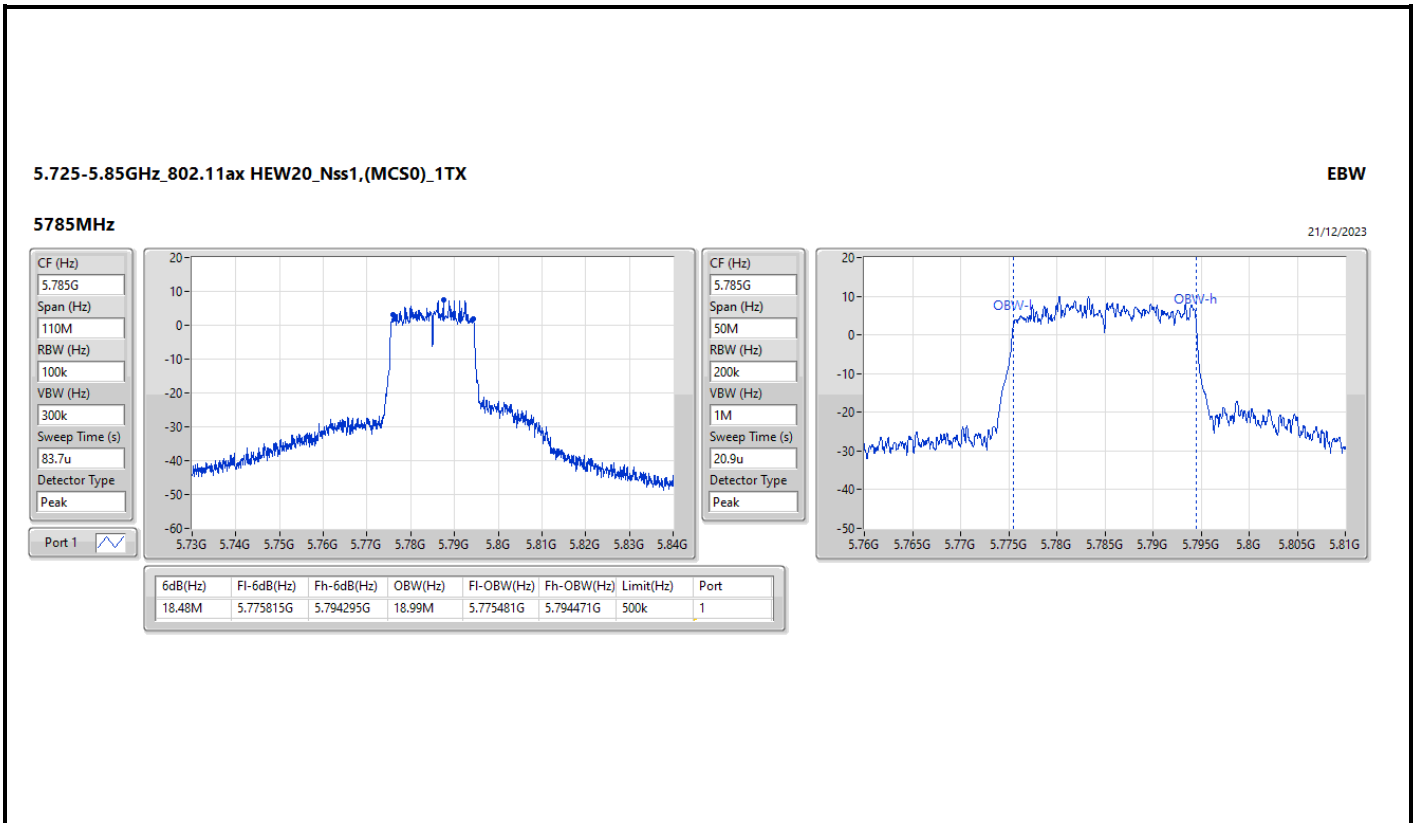


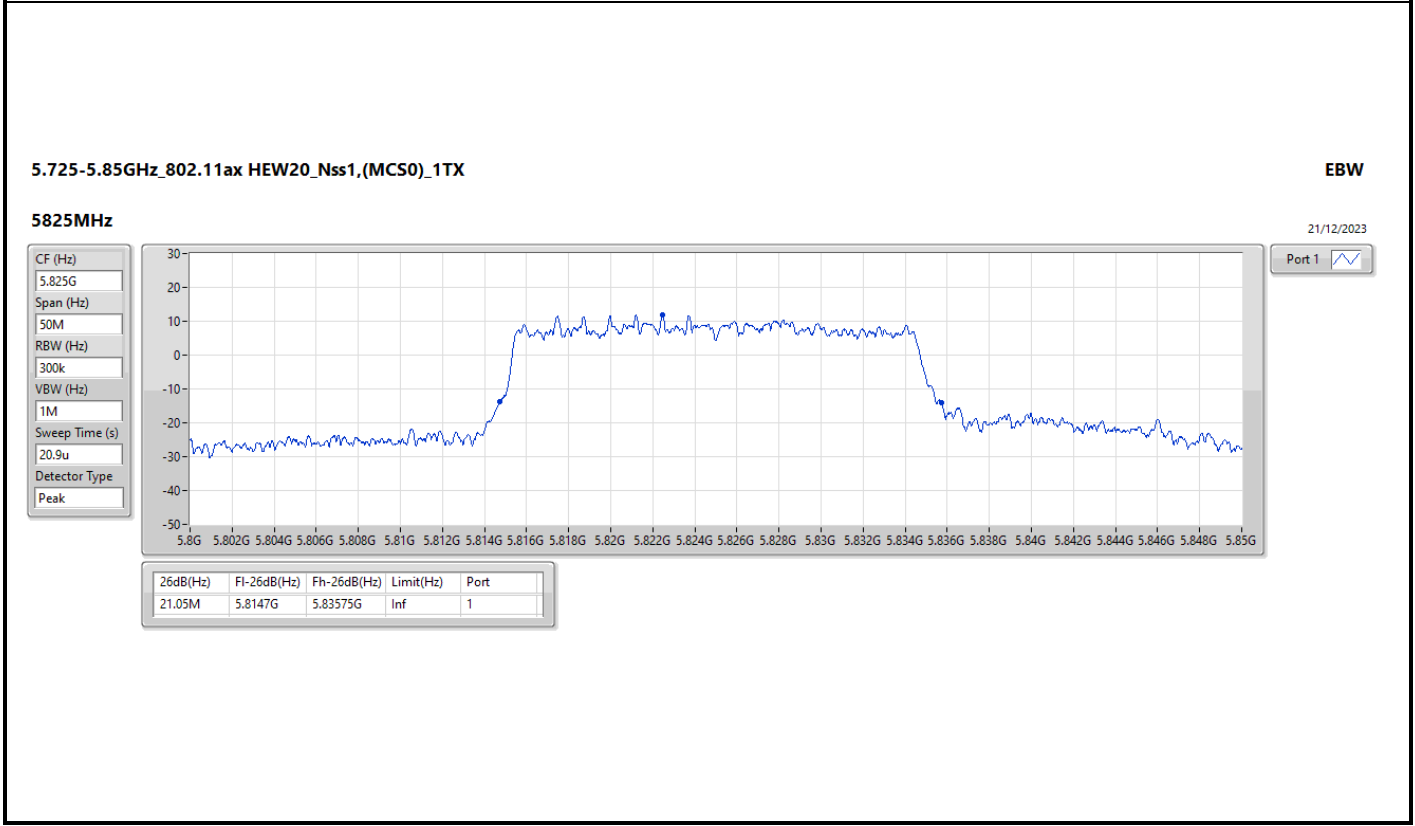
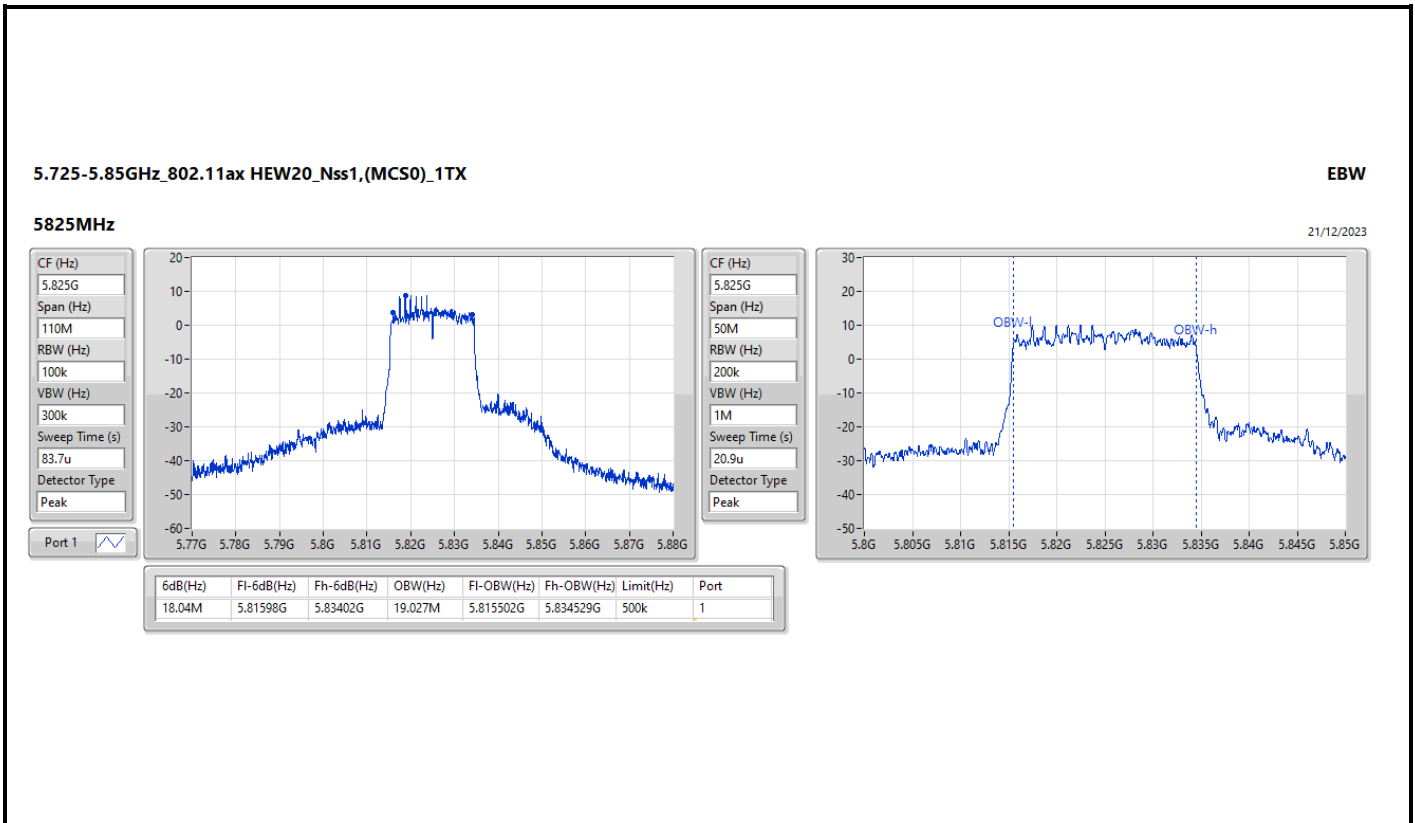
CF (Hz)
5.7G
Span (Hz)
50M
RBW (Hz)
200k
VBW (Hz)
1M
Sweep Time (s)
20.9u
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.175M	5.689275G	5.71045G	19.146M	5.690363G	5.709509G	Inf	1





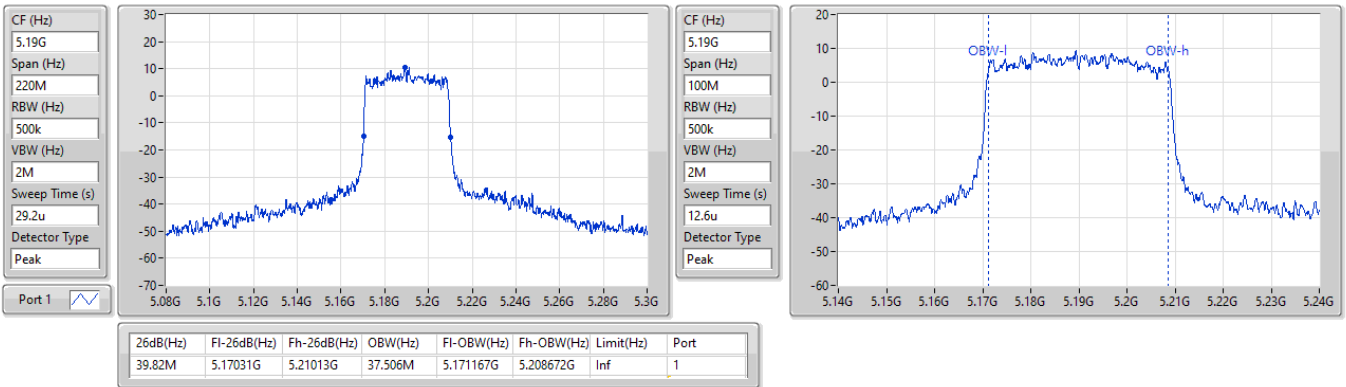


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5190MHz

21/12/2023

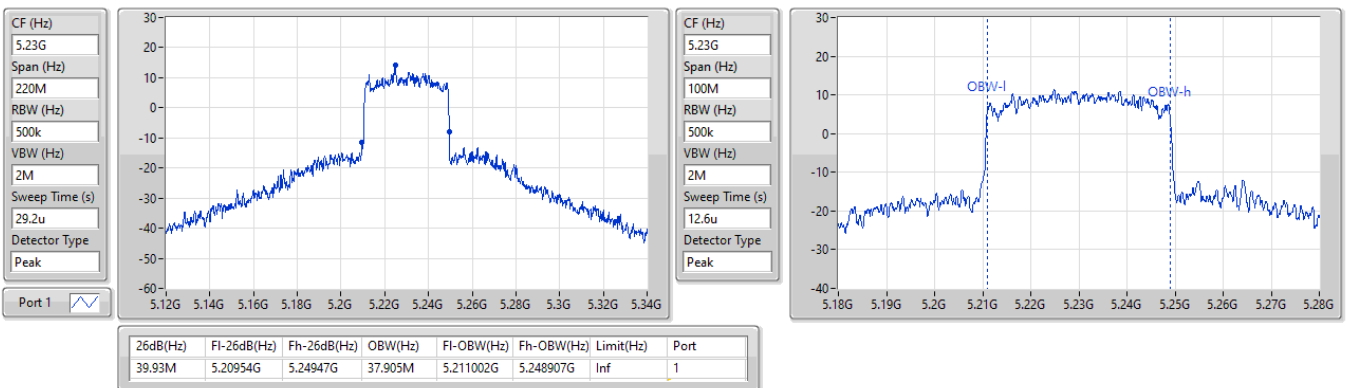


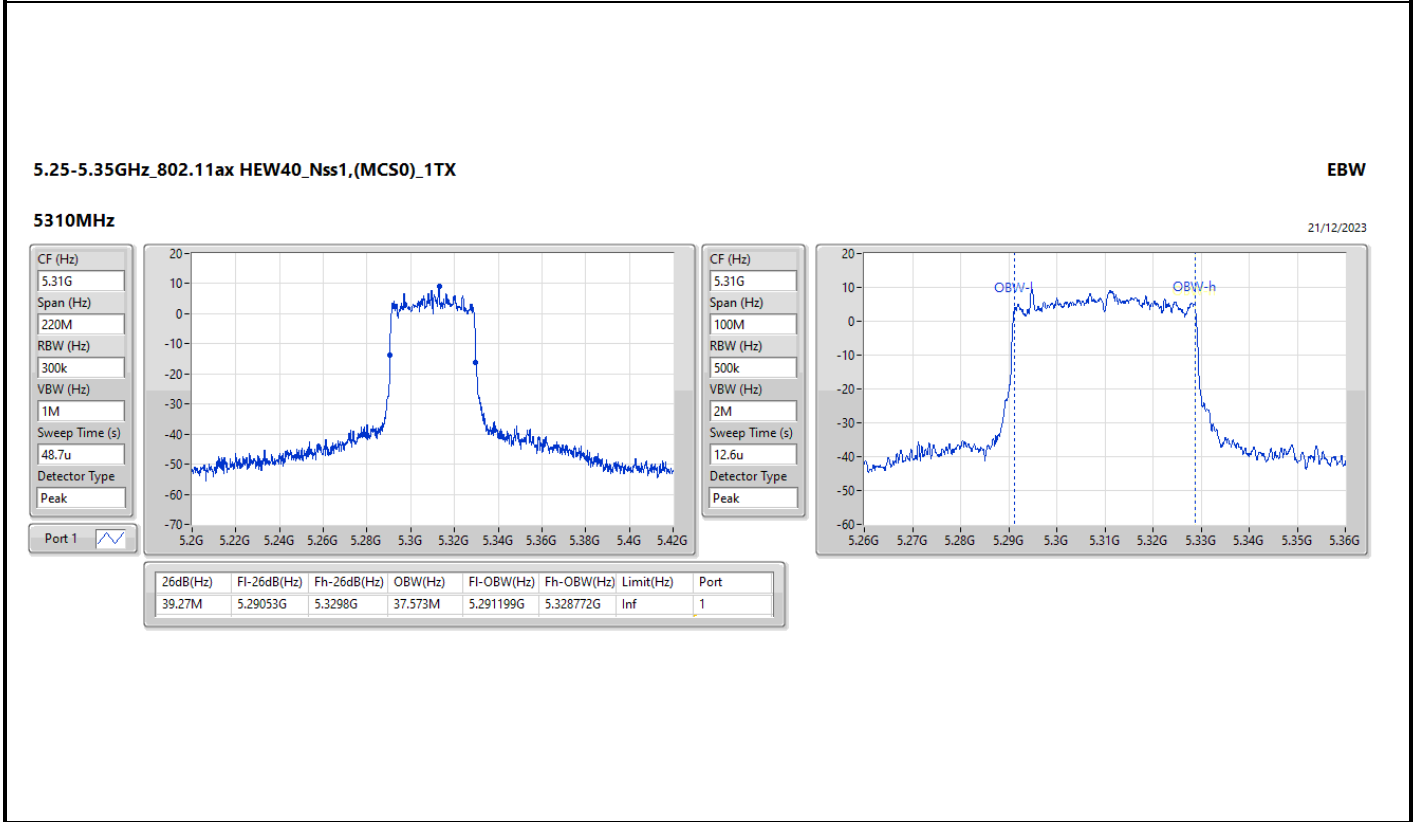
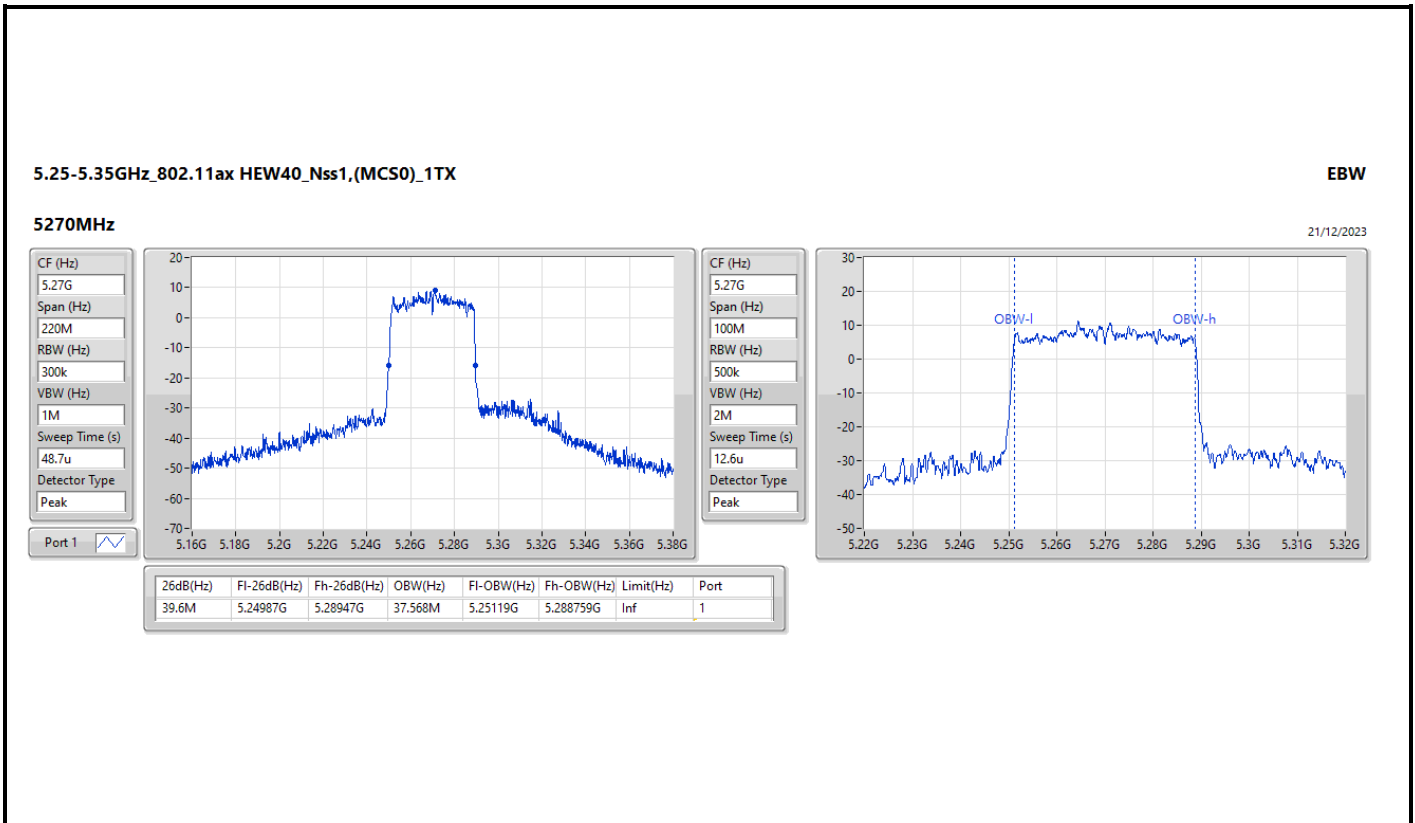
5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

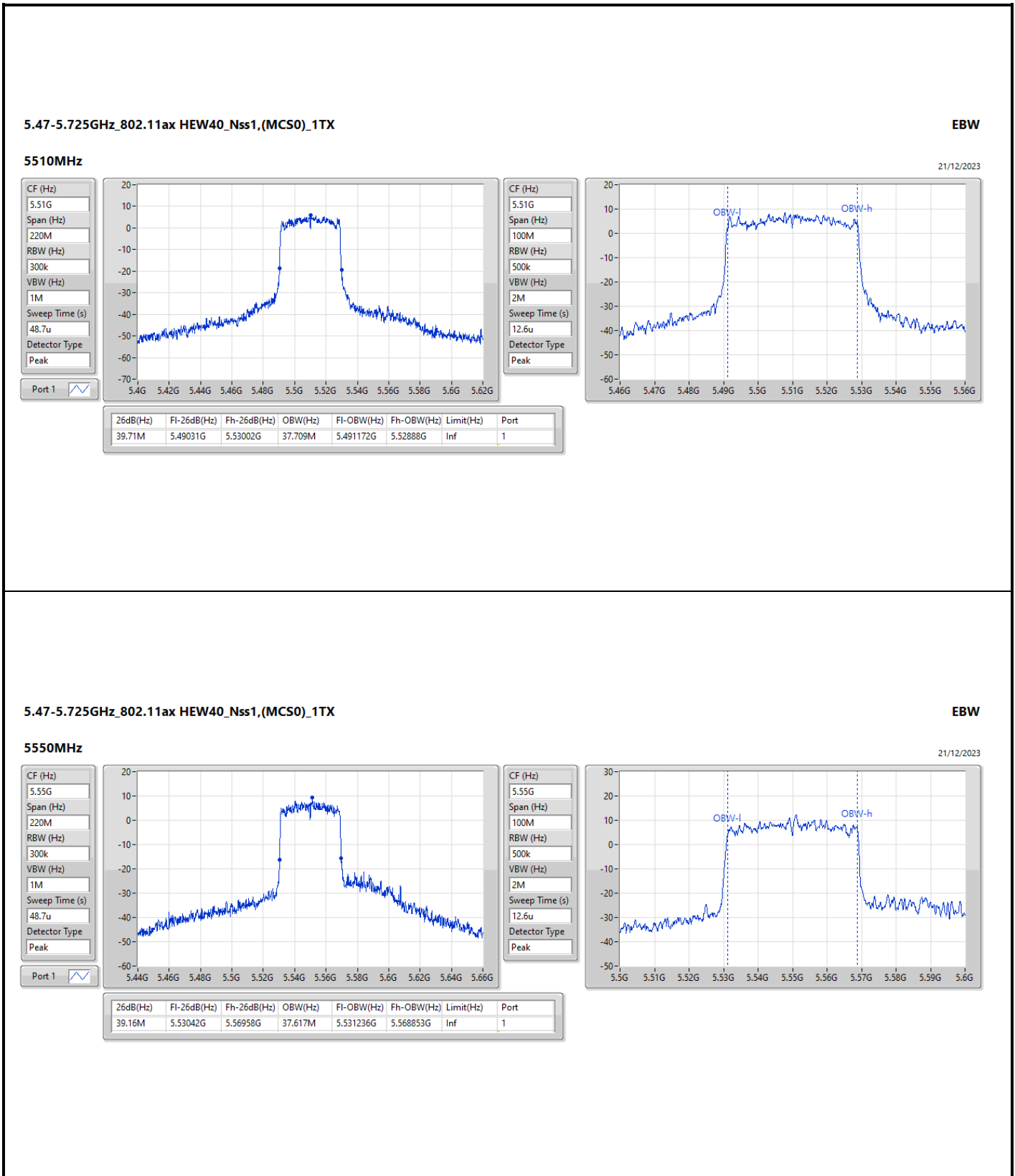
EBW

5230MHz

21/12/2023





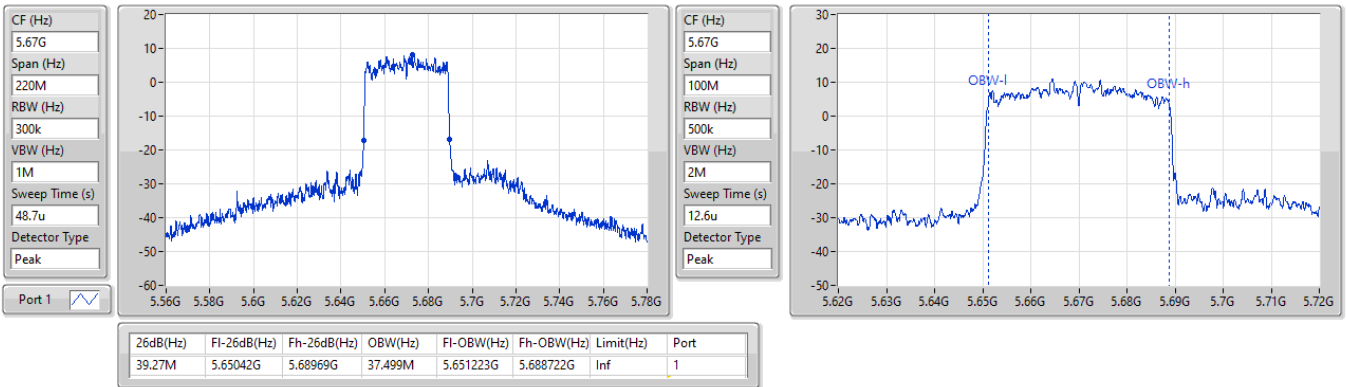


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5670MHz

21/12/2023

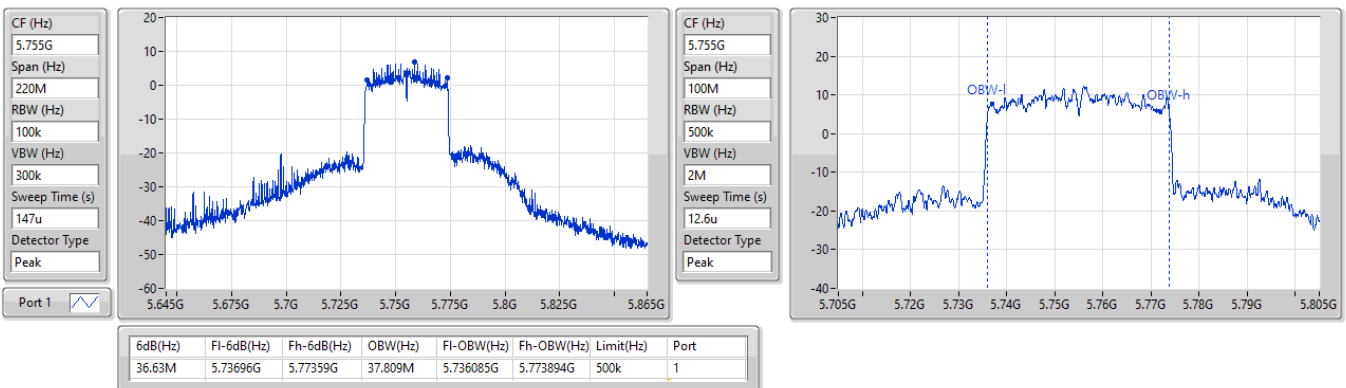


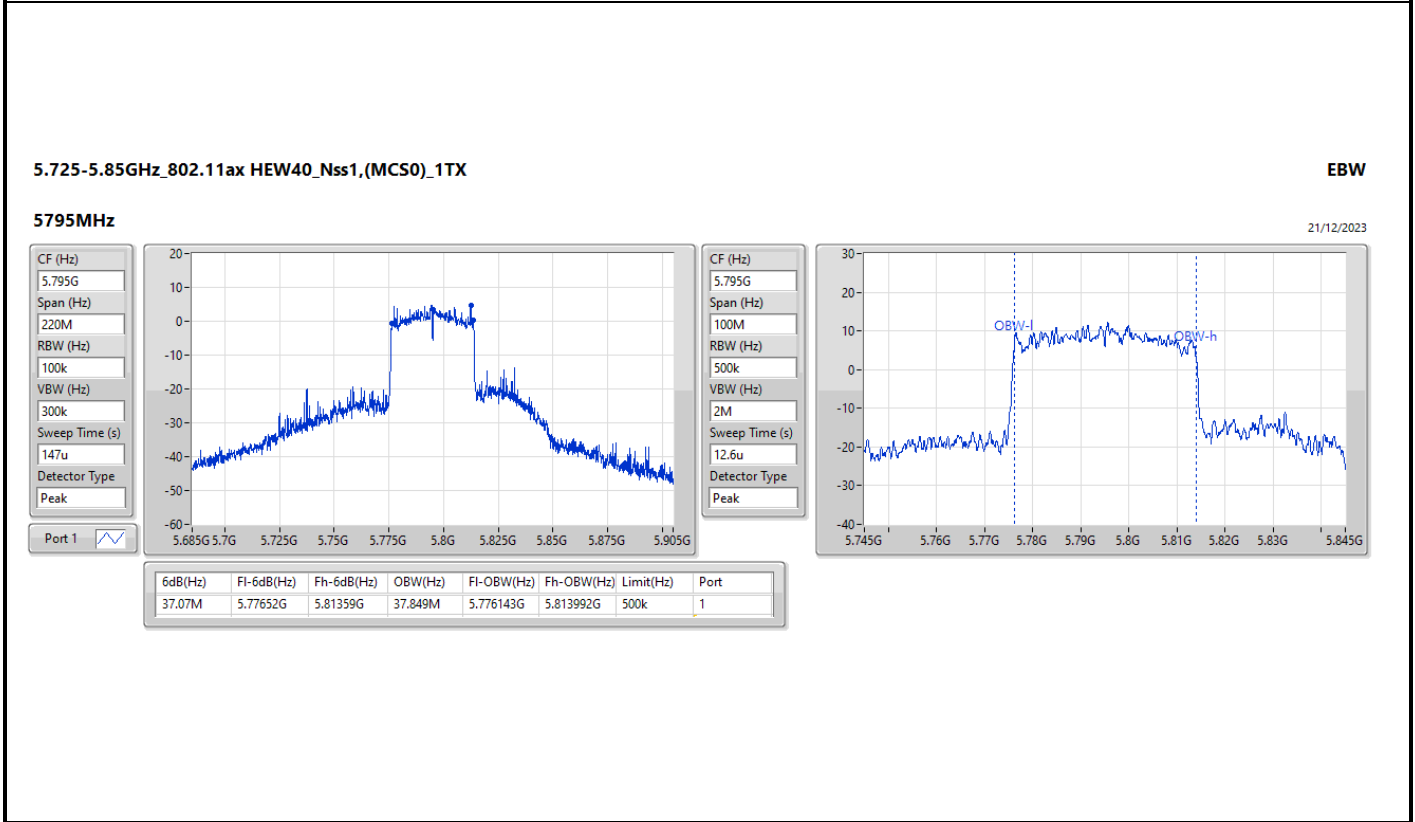
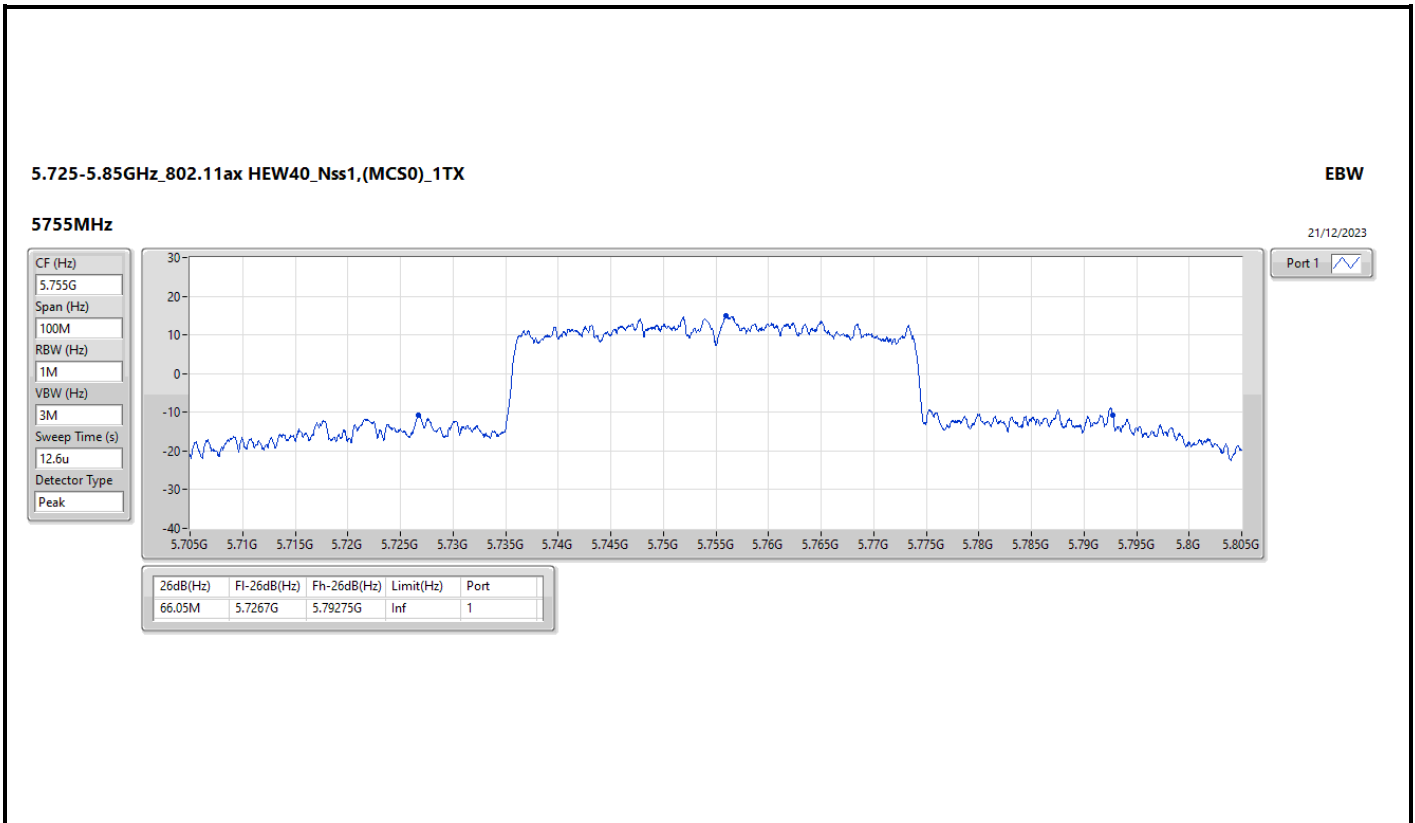
5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

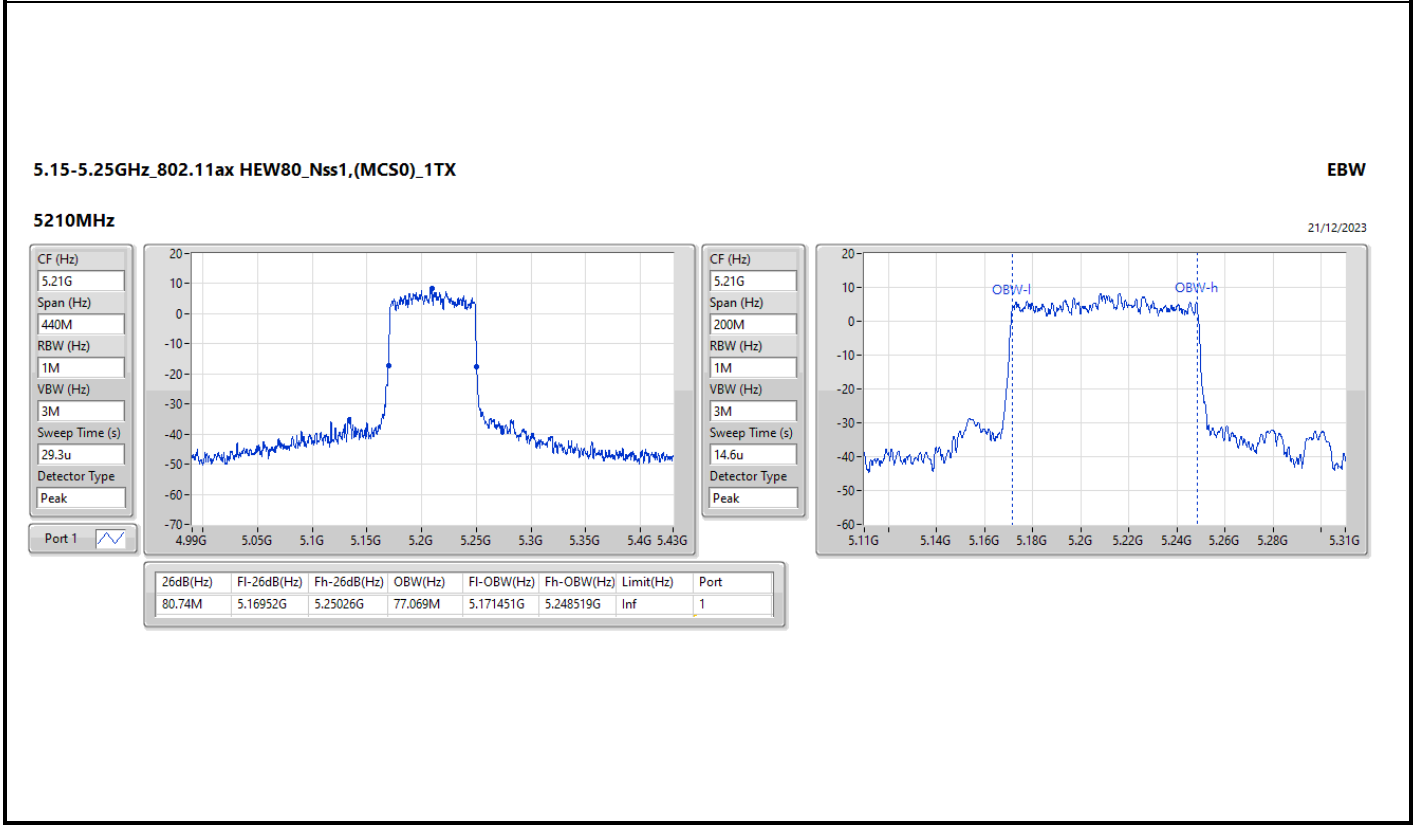
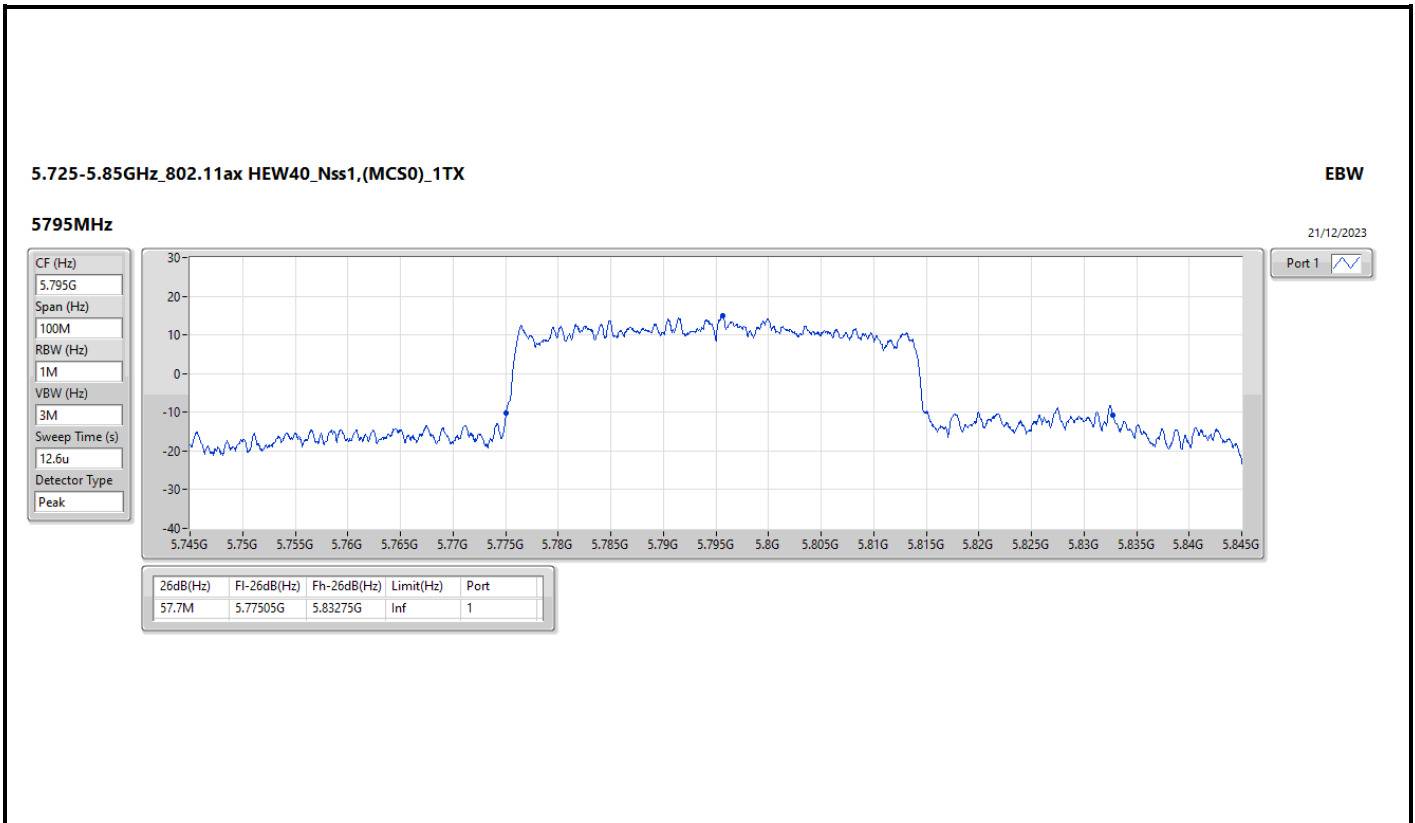
EBW

5755MHz

21/12/2023





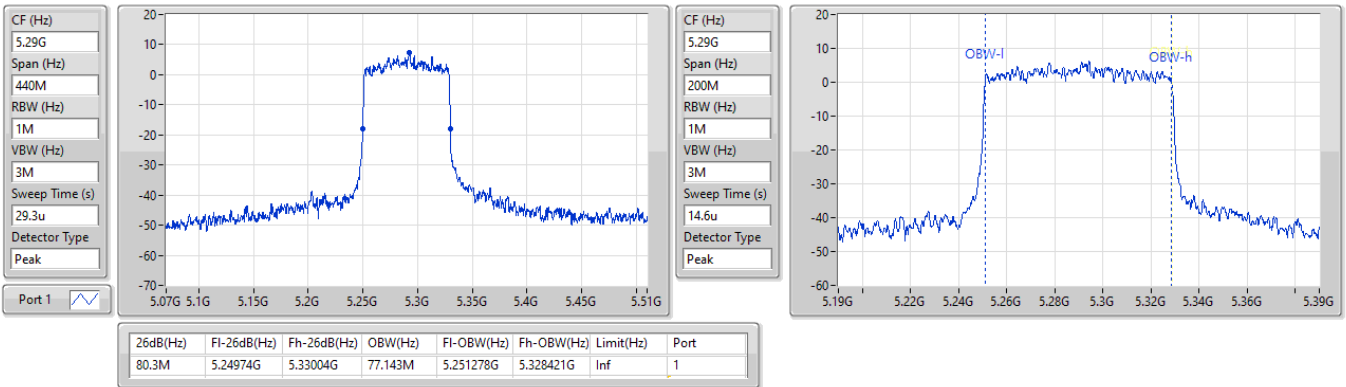


5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5290MHz

21/12/2023

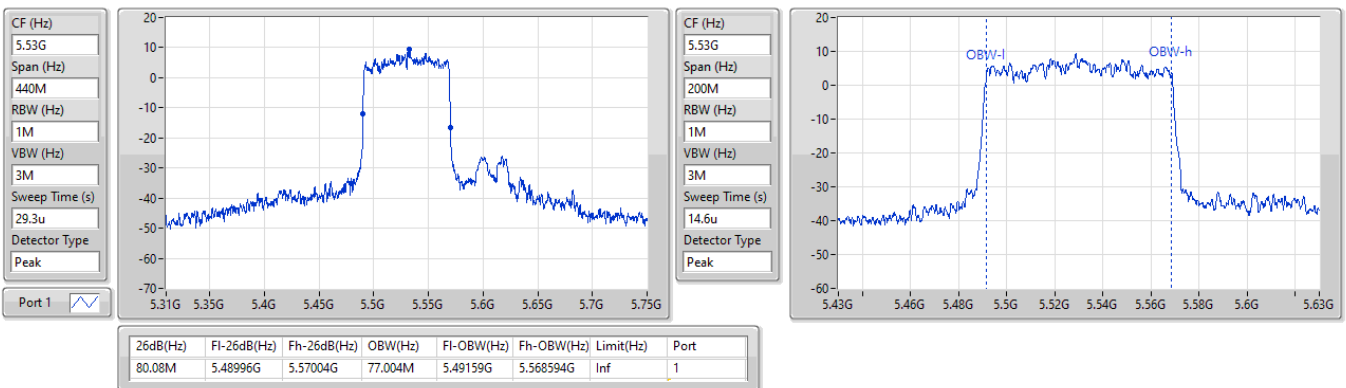


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5530MHz

21/12/2023

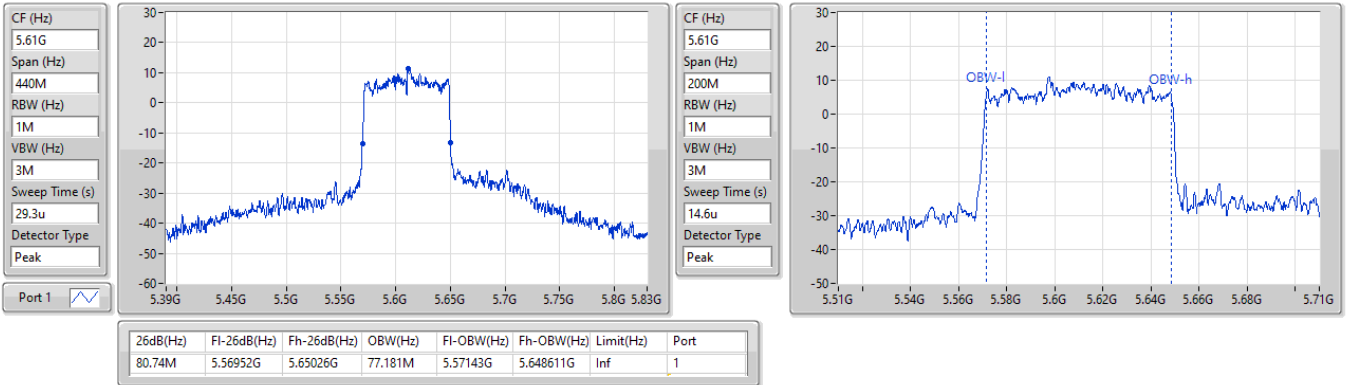


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5610MHz

21/12/2023

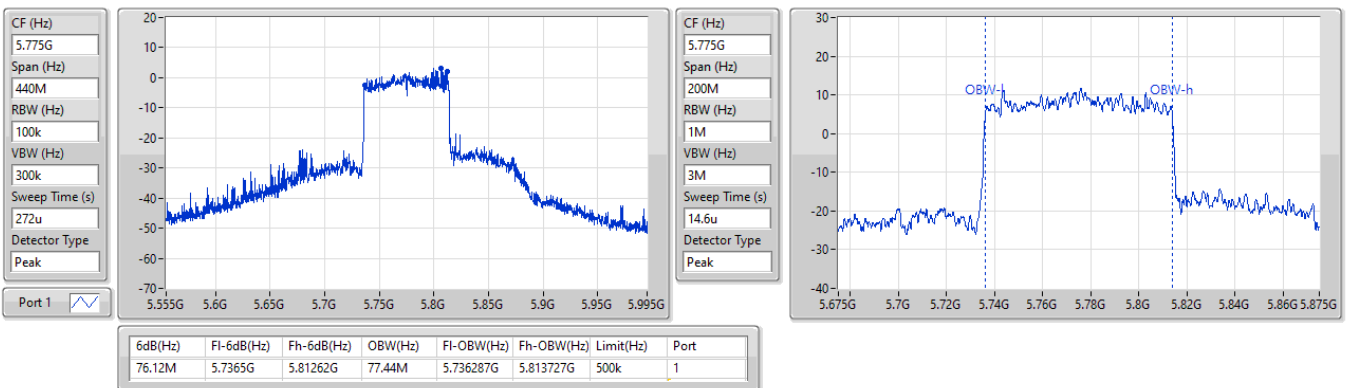


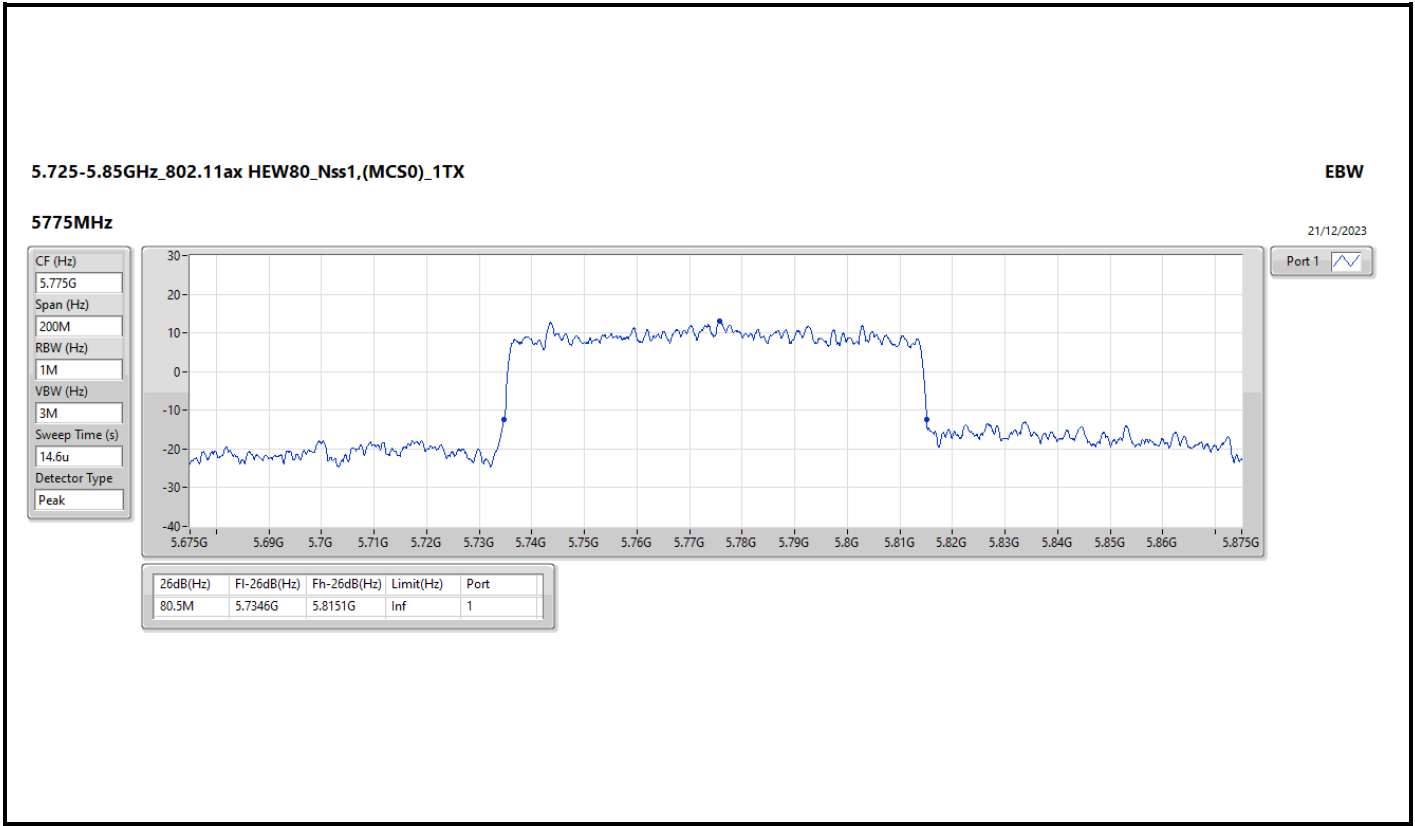
5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5775MHz

21/12/2023







Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	20.54	0.11324
802.11ax HEW20_Nss1,(MCS0)_2TX	21.00	0.12589
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.00	0.12589
802.11ax HEW40_Nss1,(MCS0)_2TX	20.44	0.11066
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.44	0.11066
802.11ax HEW80_Nss1,(MCS0)_2TX	16.83	0.04819
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	16.83	0.04819
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	20.55	0.11350
802.11ax HEW20_Nss1,(MCS0)_2TX	21.15	0.13032
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.15	0.13032
802.11ax HEW40_Nss1,(MCS0)_2TX	19.87	0.09705
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.87	0.09705
802.11ax HEW80_Nss1,(MCS0)_2TX	18.70	0.07413
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	18.70	0.07413
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	20.79	0.11995
802.11ax HEW20_Nss1,(MCS0)_2TX	21.21	0.13213
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.21	0.13213
802.11ax HEW40_Nss1,(MCS0)_2TX	21.30	0.13490
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.30	0.13490
802.11ax HEW80_Nss1,(MCS0)_2TX	20.35	0.10839
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.35	0.10839
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	23.96	0.24889
802.11ax HEW20_Nss1,(MCS0)_2TX	23.81	0.24044
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	23.81	0.24044
802.11ax HEW40_Nss1,(MCS0)_2TX	23.52	0.22491
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.52	0.22491
802.11ax HEW80_Nss1,(MCS0)_2TX	21.21	0.13213
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	21.21	0.13213



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.00	15.57	15.84	18.72	23.98
5200MHz	Pass	5.00	17.39	17.66	20.54	23.98
5240MHz	Pass	5.00	17.07	17.81	20.47	23.98
5260MHz	Pass	5.00	17.18	17.81	20.52	23.97
5300MHz	Pass	5.00	17.28	17.78	20.55	23.89
5320MHz	Pass	5.00	14.81	15.62	18.24	23.98
5500MHz	Pass	5.00	16.62	17.46	20.07	23.98
5580MHz	Pass	5.00	17.2	18.29	20.79	23.98
5700MHz	Pass	5.00	15.32	16.55	18.99	23.98
5745MHz	Pass	5.00	21.15	20.74	23.96	30.00
5785MHz	Pass	5.00	20.98	20.67	23.84	30.00
5825MHz	Pass	5.00	20.99	20.53	23.78	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.00	16.71	16.88	19.81	23.98
5200MHz	Pass	5.00	17.73	18.12	20.94	23.98
5240MHz	Pass	5.00	17.71	18.25	21.00	23.98
5260MHz	Pass	5.00	17.79	17.97	20.89	23.98
5300MHz	Pass	5.00	17.87	18.39	21.15	23.98
5320MHz	Pass	5.00	15.63	15.91	18.78	23.98
5500MHz	Pass	5.00	15.87	16.91	19.43	23.98
5580MHz	Pass	5.00	17.62	18.71	21.21	23.98
5700MHz	Pass	5.00	14	15.15	17.62	23.98
5745MHz	Pass	5.00	21.02	20.56	23.81	30.00
5785MHz	Pass	5.00	21.11	20.47	23.81	30.00
5825MHz	Pass	5.00	20.81	20.42	23.63	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.00	16.64	17.15	19.91	23.98
5230MHz	Pass	5.00	17.12	17.71	20.44	23.98
5270MHz	Pass	5.00	16.88	16.84	19.87	23.98
5310MHz	Pass	5.00	14.54	14.98	17.78	23.98
5510MHz	Pass	5.00	15.51	16.47	19.03	23.98
5550MHz	Pass	5.00	17.74	18.77	21.30	23.98
5670MHz	Pass	5.00	16.65	17.71	20.22	23.98
5755MHz	Pass	5.00	19.49	19.16	22.34	30.00
5795MHz	Pass	5.00	20.89	20.1	23.52	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.00	14.06	13.56	16.83	23.98
5290MHz	Pass	5.00	15.88	15.5	18.70	23.98
5530MHz	Pass	5.00	15.44	15.79	18.63	23.98
5610MHz	Pass	5.00	17.14	17.54	20.35	23.98
5775MHz	Pass	5.00	18.7	17.63	21.21	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.01	16.71	16.88	19.81	21.97
5200MHz	Pass	8.01	17.73	18.12	20.94	21.97
5240MHz	Pass	8.01	17.71	18.25	21.00	21.97
5260MHz	Pass	8.01	17.79	17.97	20.89	21.97
5300MHz	Pass	8.01	17.87	18.39	21.15	21.97
5320MHz	Pass	8.01	15.63	15.91	18.78	21.97
5500MHz	Pass	8.01	15.87	16.91	19.43	21.97
5580MHz	Pass	8.01	17.62	18.71	21.21	21.97
5700MHz	Pass	8.01	14	15.15	17.62	21.97
5745MHz	Pass	8.01	21.02	20.56	23.81	27.99
5785MHz	Pass	8.01	21.11	20.47	23.81	27.99
5825MHz	Pass	8.01	20.81	20.42	23.63	27.99



Average Power_SKU 1

Appendix C.1

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.01	16.64	17.15	19.91	21.97
5230MHz	Pass	8.01	17.12	17.71	20.44	21.97
5270MHz	Pass	8.01	16.88	16.84	19.87	21.97
5310MHz	Pass	8.01	14.54	14.98	17.78	21.97
5510MHz	Pass	8.01	15.51	16.47	19.03	21.97
5550MHz	Pass	8.01	17.74	18.77	21.30	21.97
5670MHz	Pass	8.01	16.65	17.71	20.22	21.97
5755MHz	Pass	8.01	19.49	19.16	22.34	27.99
5795MHz	Pass	8.01	20.89	20.1	23.52	27.99
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.01	14.06	13.56	16.83	21.97
5290MHz	Pass	8.01	15.88	15.5	18.70	21.97
5530MHz	Pass	8.01	15.44	15.79	18.63	21.97
5610MHz	Pass	8.01	17.14	17.54	20.35	21.97
5775MHz	Pass	8.01	18.7	17.63	21.21	27.99

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



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	20.29	0.10691
802.11ax HEW20_Nss1,(MCS0)_1TX	19.94	0.09863
802.11ax HEW40_Nss1,(MCS0)_1TX	20.48	0.11169
802.11ax HEW80_Nss1,(MCS0)_1TX	16.71	0.04688
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	19.93	0.09840
802.11ax HEW20_Nss1,(MCS0)_1TX	19.79	0.09528
802.11ax HEW40_Nss1,(MCS0)_1TX	19.58	0.09078
802.11ax HEW80_Nss1,(MCS0)_1TX	14.77	0.02999
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	18.91	0.07780
802.11ax HEW20_Nss1,(MCS0)_1TX	18.32	0.06792
802.11ax HEW40_Nss1,(MCS0)_1TX	19.54	0.08995
802.11ax HEW80_Nss1,(MCS0)_1TX	18.62	0.07278
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	19.98	0.09954
802.11ax HEW20_Nss1,(MCS0)_1TX	19.72	0.09376
802.11ax HEW40_Nss1,(MCS0)_1TX	20.66	0.11641
802.11ax HEW80_Nss1,(MCS0)_1TX	19.92	0.09817



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5180MHz	Pass	5.00	19.06	19.06	23.98
5200MHz	Pass	5.00	20.29	20.29	23.98
5240MHz	Pass	5.00	19.91	19.91	23.98
5260MHz	Pass	5.00	19.93	19.93	23.98
5300MHz	Pass	5.00	19.55	19.55	23.98
5320MHz	Pass	5.00	19.15	19.15	23.98
5500MHz	Pass	5.00	18.91	18.91	23.98
5580MHz	Pass	5.00	18.52	18.52	23.98
5700MHz	Pass	5.00	16.07	16.07	23.98
5745MHz	Pass	5.00	19.98	19.98	30.00
5785MHz	Pass	5.00	19.47	19.47	30.00
5825MHz	Pass	5.00	19.73	19.73	30.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
5180MHz	Pass	5.00	19.53	19.53	23.98
5200MHz	Pass	5.00	19.56	19.56	23.98
5240MHz	Pass	5.00	19.94	19.94	23.98
5260MHz	Pass	5.00	19.79	19.79	23.98
5300MHz	Pass	5.00	19.42	19.42	23.98
5320MHz	Pass	5.00	18.01	18.01	23.98
5500MHz	Pass	5.00	18.23	18.23	23.98
5580MHz	Pass	5.00	18.32	18.32	23.98
5700MHz	Pass	5.00	15.88	15.88	23.98
5745MHz	Pass	5.00	19.72	19.72	30.00
5785MHz	Pass	5.00	19.27	19.27	30.00
5825MHz	Pass	5.00	19.50	19.50	30.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
5190MHz	Pass	5.00	18.07	18.07	23.98
5230MHz	Pass	5.00	20.48	20.48	23.98
5270MHz	Pass	5.00	19.58	19.58	23.98
5310MHz	Pass	5.00	17.34	17.34	23.98
5510MHz	Pass	5.00	17.11	17.11	23.98
5550MHz	Pass	5.00	19.54	19.54	23.98
5670MHz	Pass	5.00	19.12	19.12	23.98
5755MHz	Pass	5.00	20.66	20.66	30.00
5795MHz	Pass	5.00	20.45	20.45	30.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-
5210MHz	Pass	5.00	16.71	16.71	23.98
5290MHz	Pass	5.00	14.77	14.77	23.98
5530MHz	Pass	5.00	17.12	17.12	23.98
5610MHz	Pass	5.00	18.62	18.62	23.98
5775MHz	Pass	5.00	19.92	19.92	30.00

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



Summary

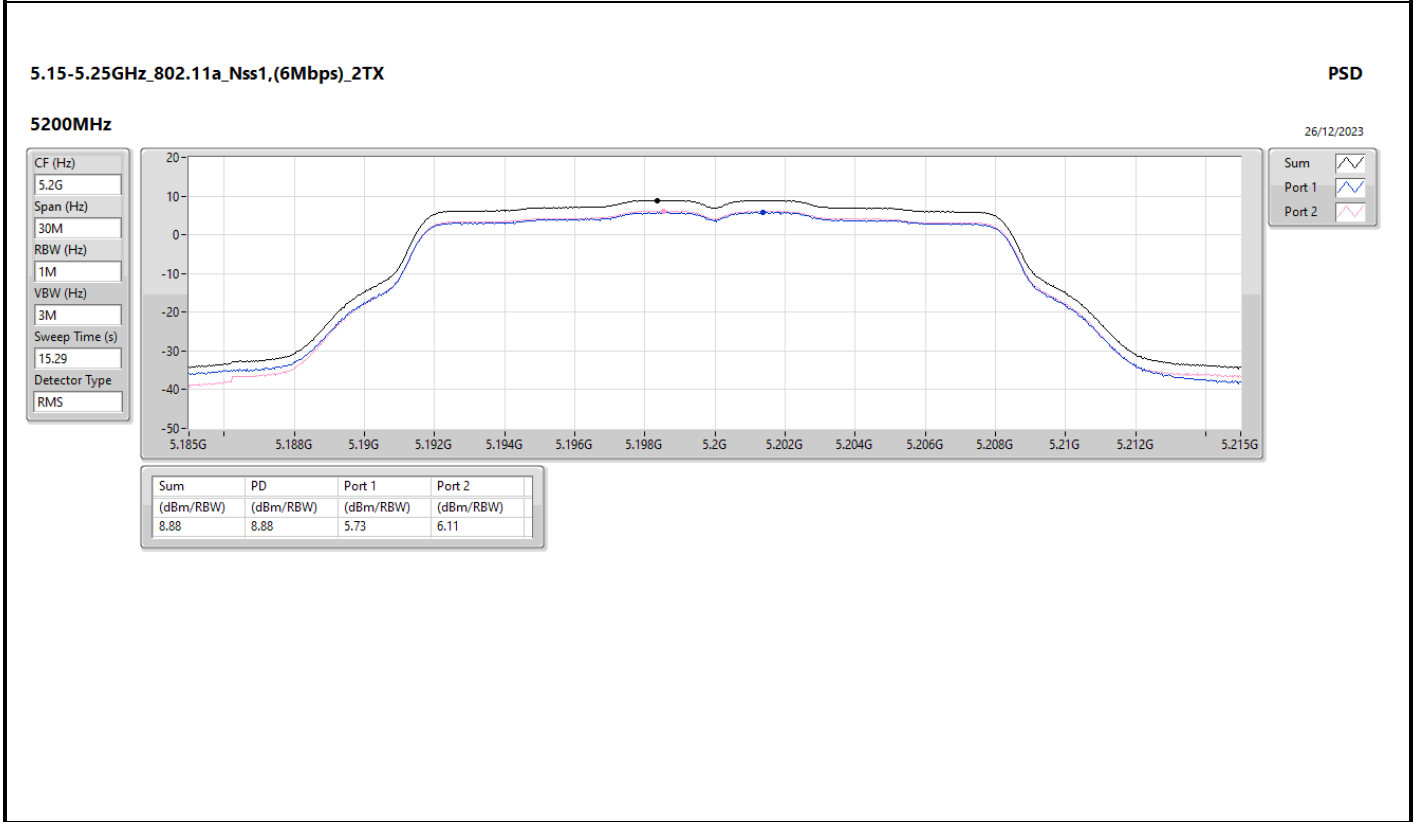
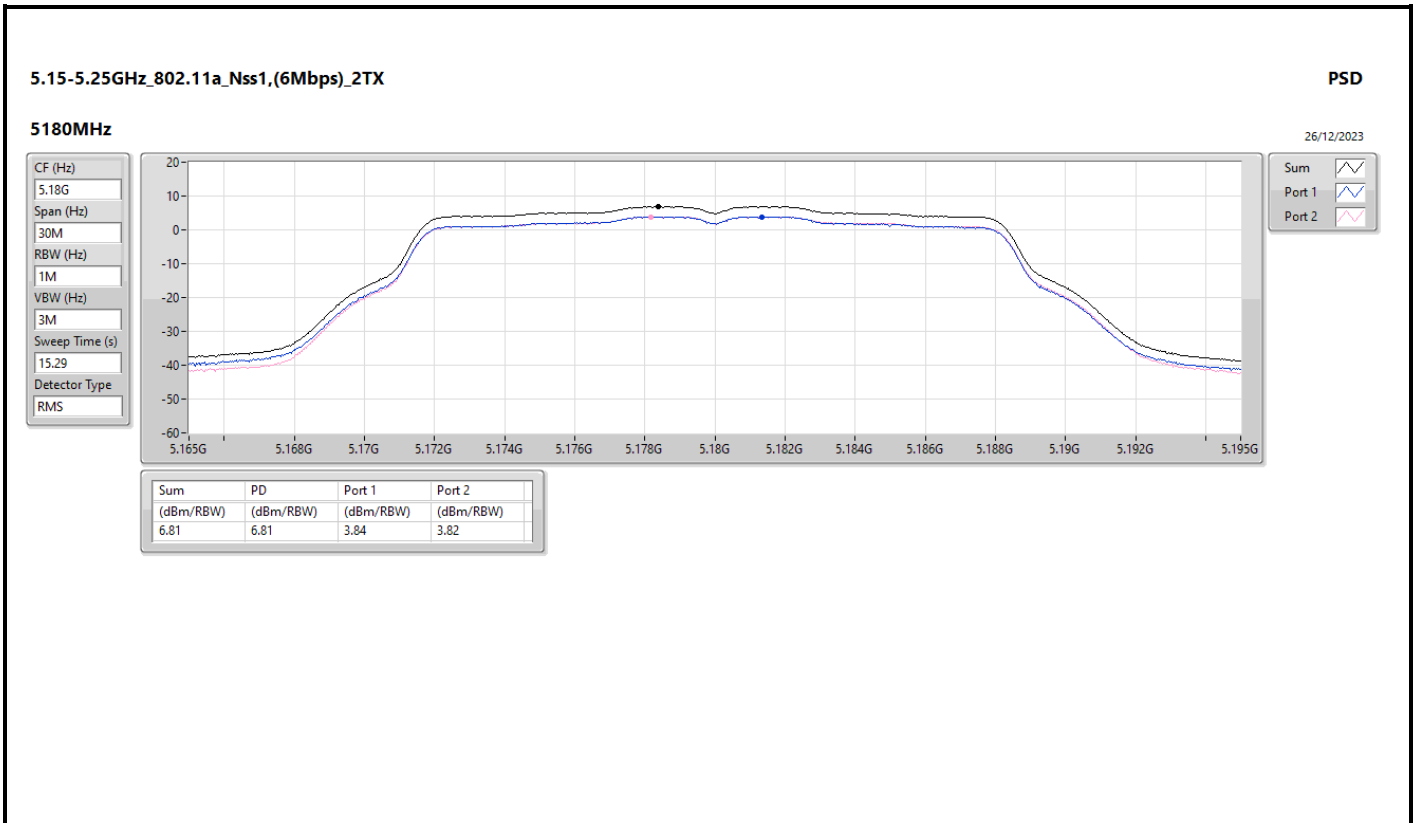
Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	8.88
802.11ax HEW20_Nss1,(MCS0)_2TX	8.80
802.11ax HEW40_Nss1,(MCS0)_2TX	6.11
802.11ax HEW80_Nss1,(MCS0)_2TX	-0.52
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_2TX	8.78
802.11ax HEW20_Nss1,(MCS0)_2TX	8.95
802.11ax HEW40_Nss1,(MCS0)_2TX	5.26
802.11ax HEW80_Nss1,(MCS0)_2TX	1.23
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_2TX	8.96
802.11ax HEW20_Nss1,(MCS0)_2TX	8.84
802.11ax HEW40_Nss1,(MCS0)_2TX	6.82
802.11ax HEW80_Nss1,(MCS0)_2TX	3.08
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.67
802.11ax HEW20_Nss1,(MCS0)_2TX	10.32
802.11ax HEW40_Nss1,(MCS0)_2TX	7.71
802.11ax HEW80_Nss1,(MCS0)_2TX	2.41

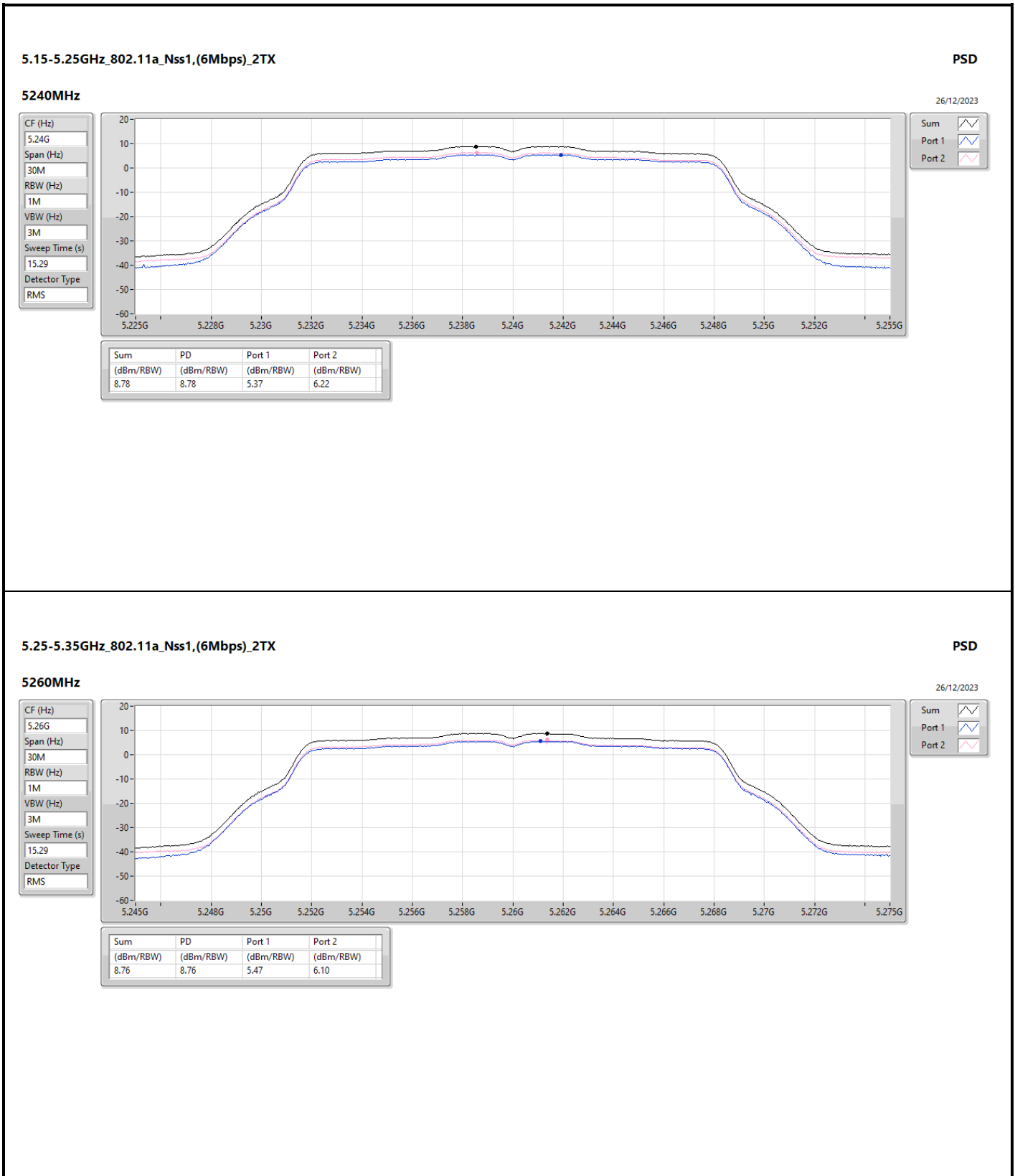
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band:

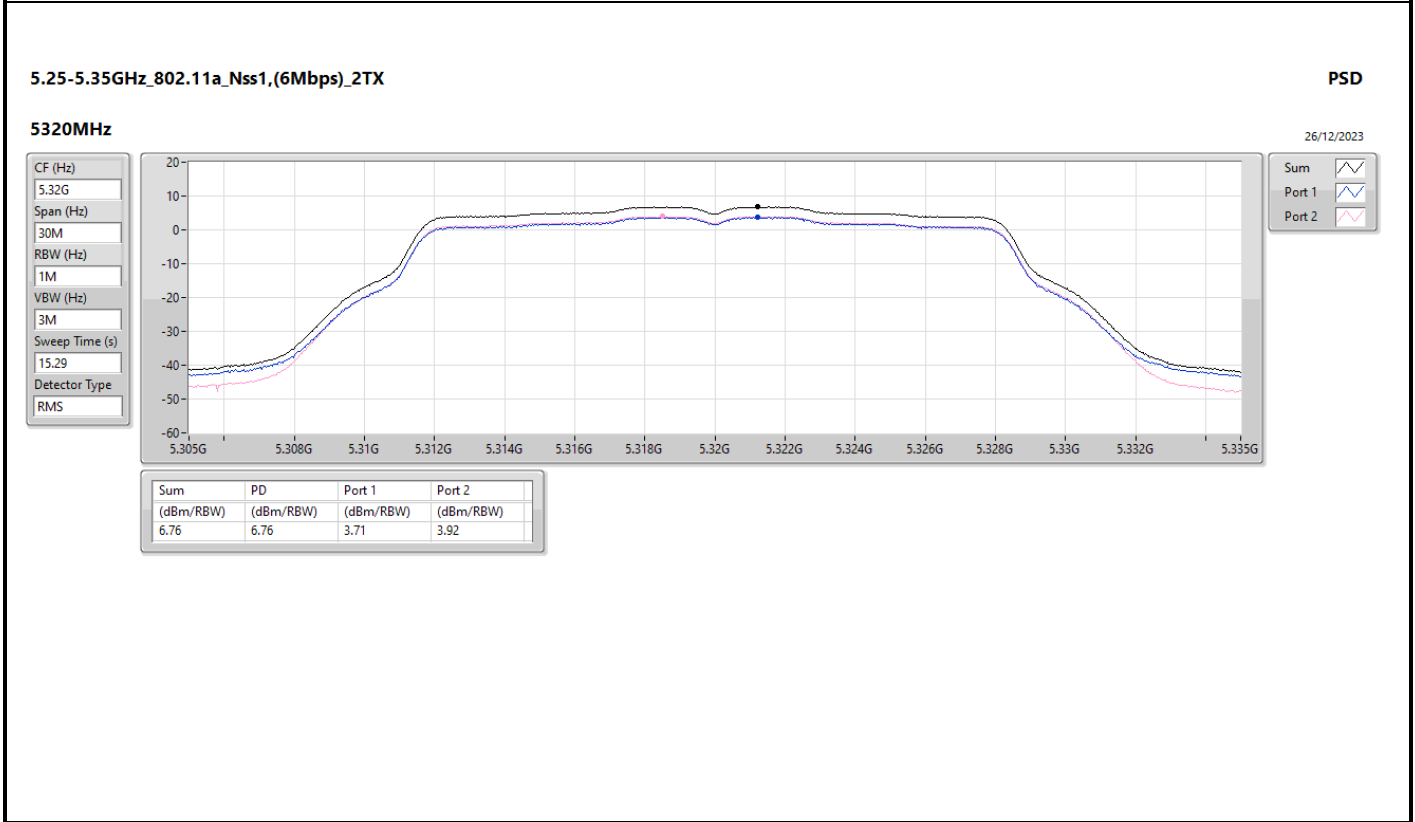
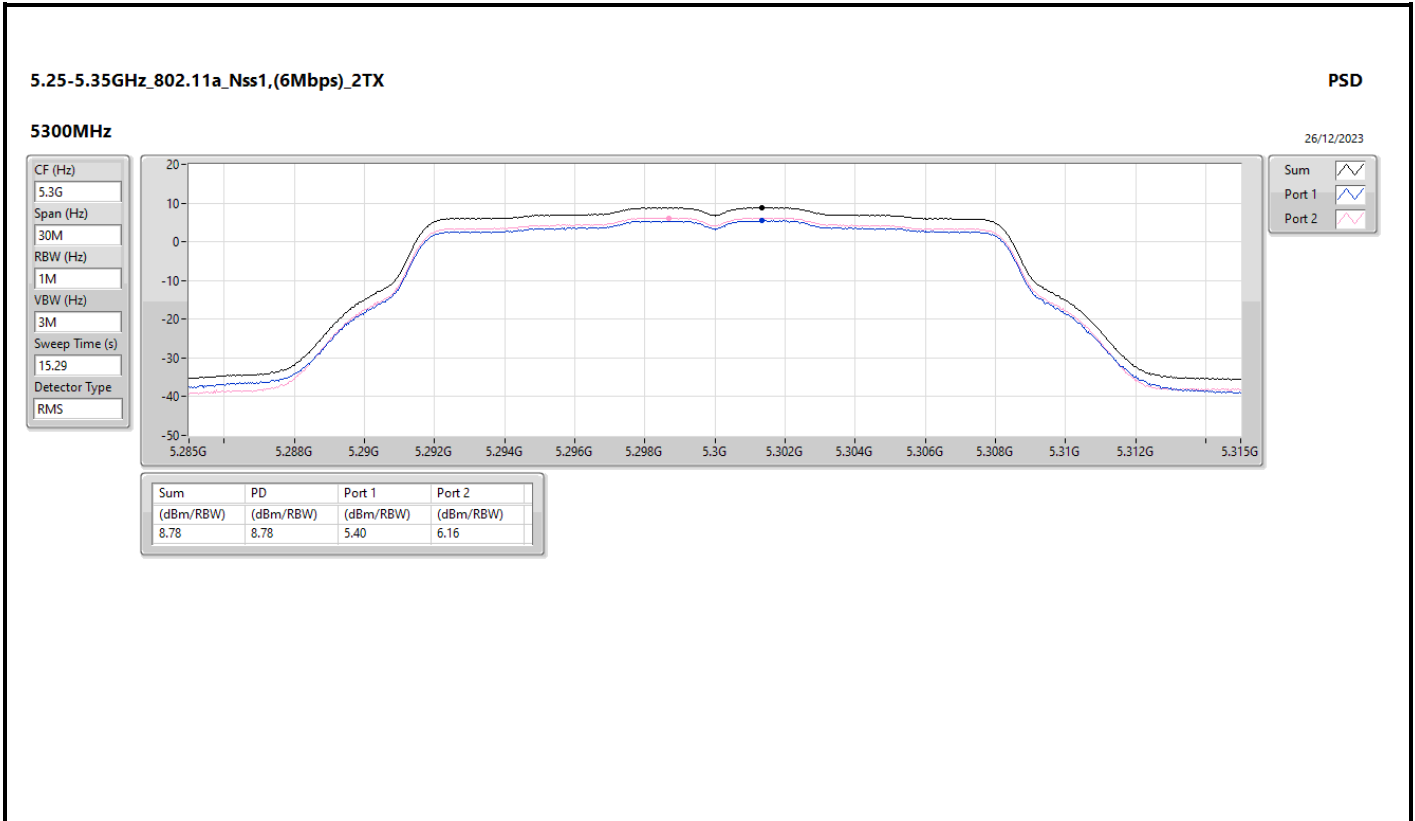
Result

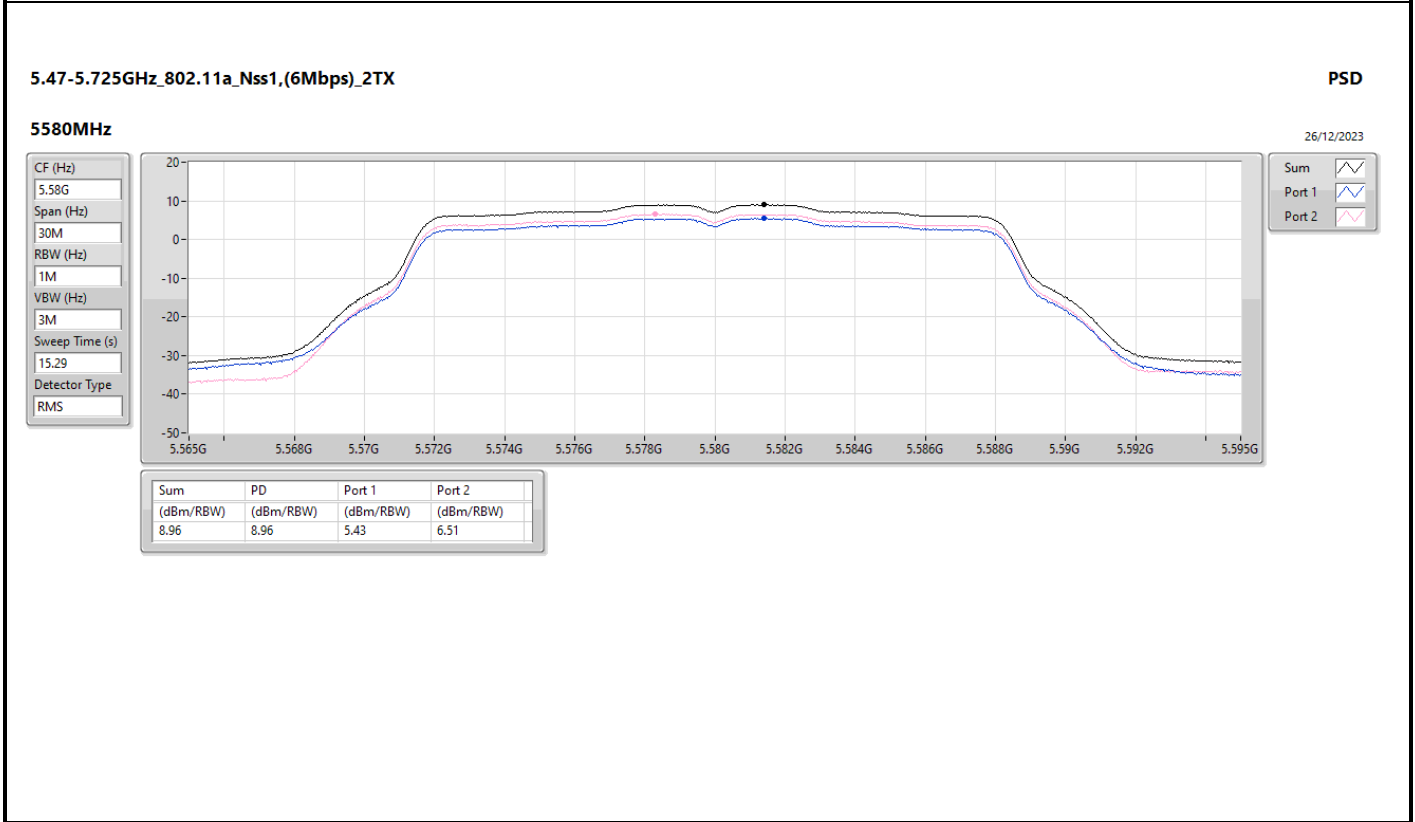
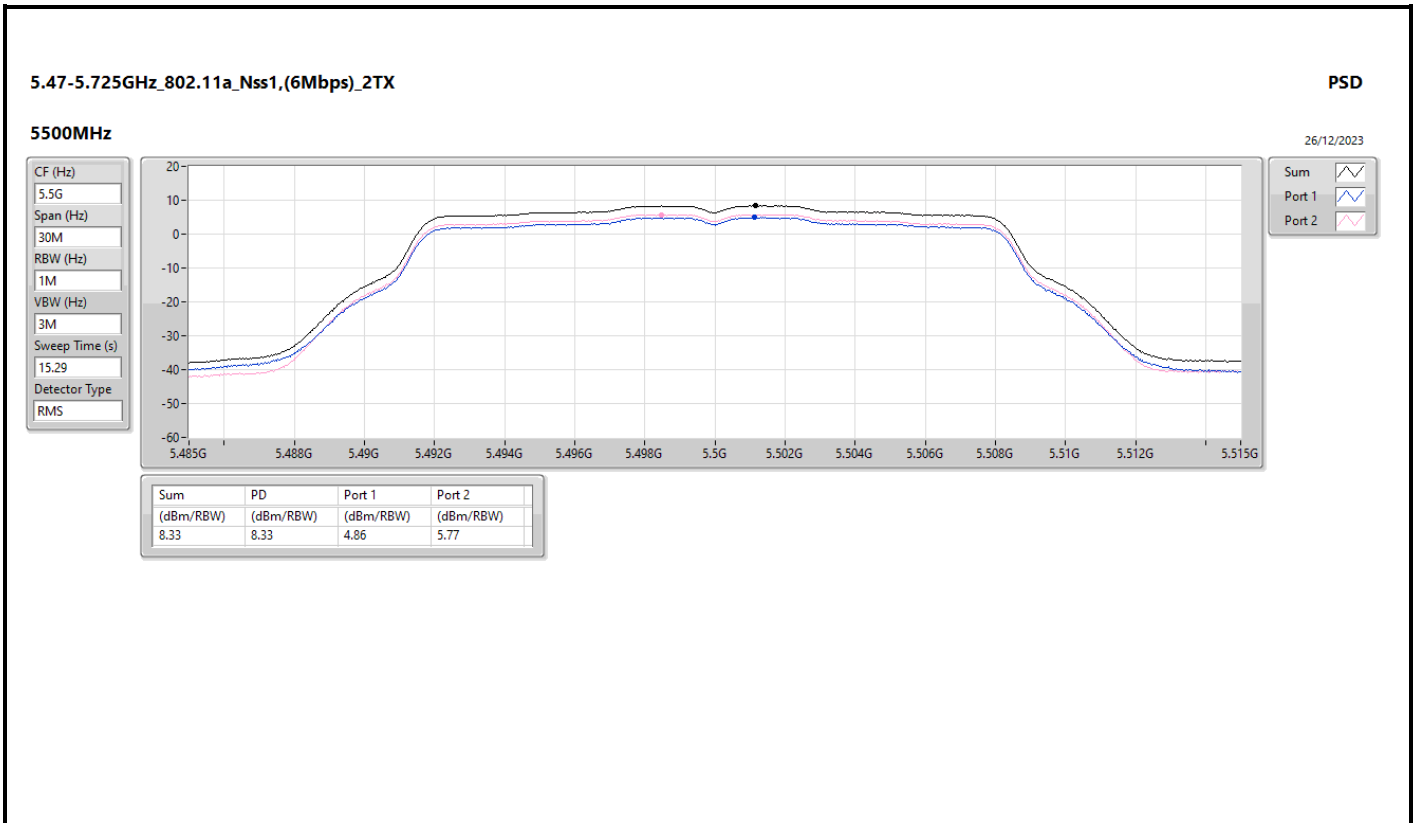
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.01	3.84	3.82	6.81	8.99
5200MHz	Pass	8.01	5.73	6.11	8.88	8.99
5240MHz	Pass	8.01	5.37	6.22	8.78	8.99
5260MHz	Pass	8.01	5.47	6.10	8.76	8.99
5300MHz	Pass	8.01	5.40	6.16	8.78	8.99
5320MHz	Pass	8.01	3.71	3.92	6.76	8.99
5500MHz	Pass	8.01	4.86	5.77	8.33	8.99
5580MHz	Pass	8.01	5.43	6.51	8.96	8.99
5700MHz	Pass	8.01	3.71	4.91	7.31	8.99
5745MHz	Pass	8.01	7.95	7.47	10.67	27.99
5785MHz	Pass	8.01	7.81	7.42	10.62	27.99
5825MHz	Pass	8.01	7.81	7.24	10.49	27.99
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.01	4.63	4.74	7.54	8.99
5200MHz	Pass	8.01	5.64	5.93	8.80	8.99
5240MHz	Pass	8.01	5.51	5.97	8.76	8.99
5260MHz	Pass	8.01	5.65	5.87	8.77	8.99
5300MHz	Pass	8.01	5.75	6.22	8.95	8.99
5320MHz	Pass	8.01	3.41	3.74	6.57	8.99
5500MHz	Pass	8.01	3.69	4.64	7.05	8.99
5580MHz	Pass	8.01	5.27	6.34	8.84	8.99
5700MHz	Pass	8.01	2.07	3.05	5.60	8.99
5745MHz	Pass	8.01	7.57	6.99	10.25	27.99
5785MHz	Pass	8.01	7.73	6.82	10.31	27.99
5825MHz	Pass	8.01	7.70	6.93	10.32	27.99
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.01	2.20	2.54	5.37	8.99
5230MHz	Pass	8.01	2.97	3.27	6.11	8.99
5270MHz	Pass	8.01	2.39	2.45	5.26	8.99
5310MHz	Pass	8.01	0.49	0.55	3.34	8.99
5510MHz	Pass	8.01	0.96	1.96	4.50	8.99
5550MHz	Pass	8.01	3.30	4.26	6.82	8.99
5670MHz	Pass	8.01	2.16	3.24	5.63	8.99
5755MHz	Pass	8.01	3.44	3.38	6.36	27.99
5795MHz	Pass	8.01	5.09	4.31	7.71	27.99
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.01	-3.26	-3.75	-0.52	8.99
5290MHz	Pass	8.01	-1.61	-1.91	1.23	8.99
5530MHz	Pass	8.01	-2.00	-1.63	1.12	8.99
5610MHz	Pass	8.01	-0.08	0.24	3.08	8.99
5775MHz	Pass	8.01	-0.08	-1.19	2.41	27.99

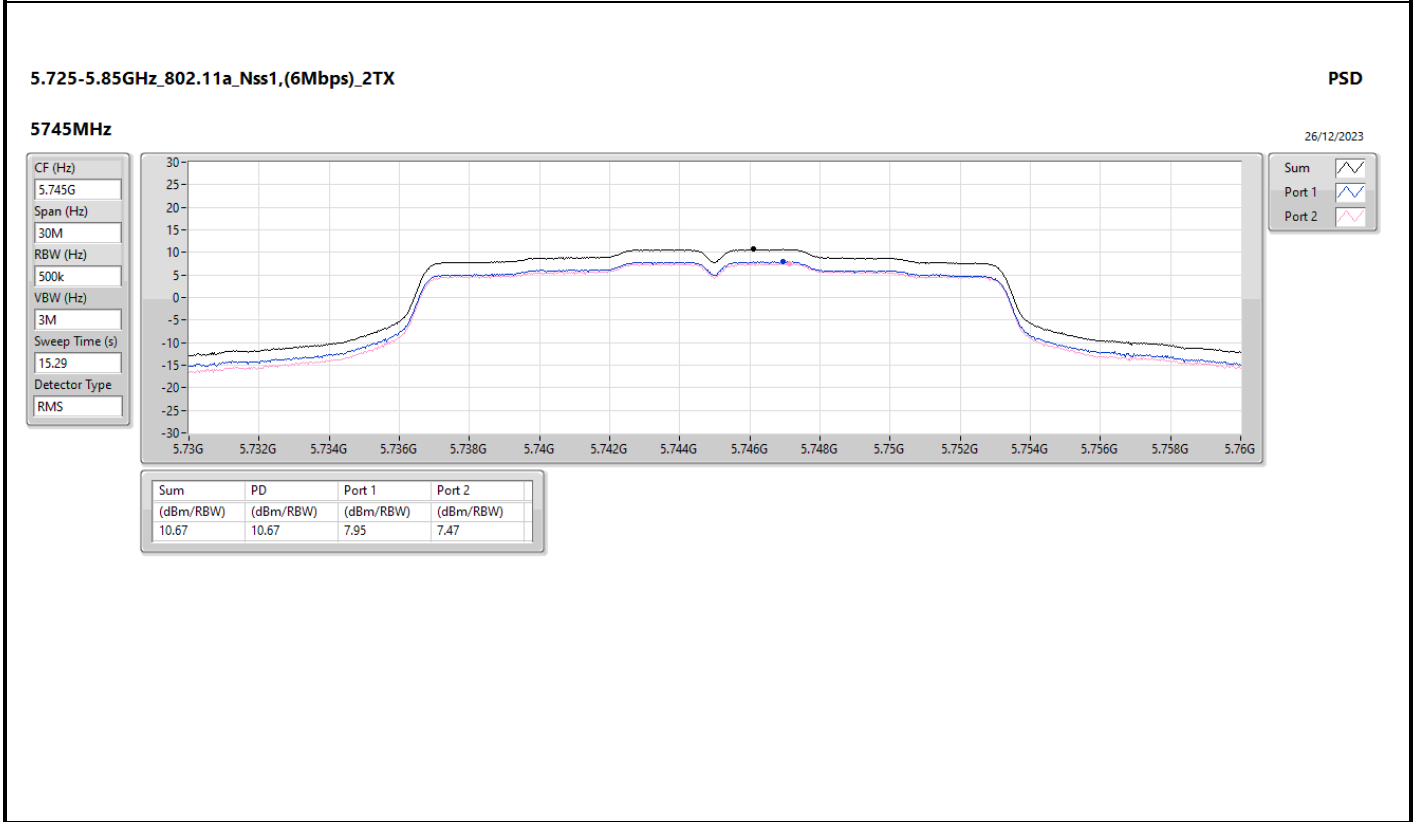
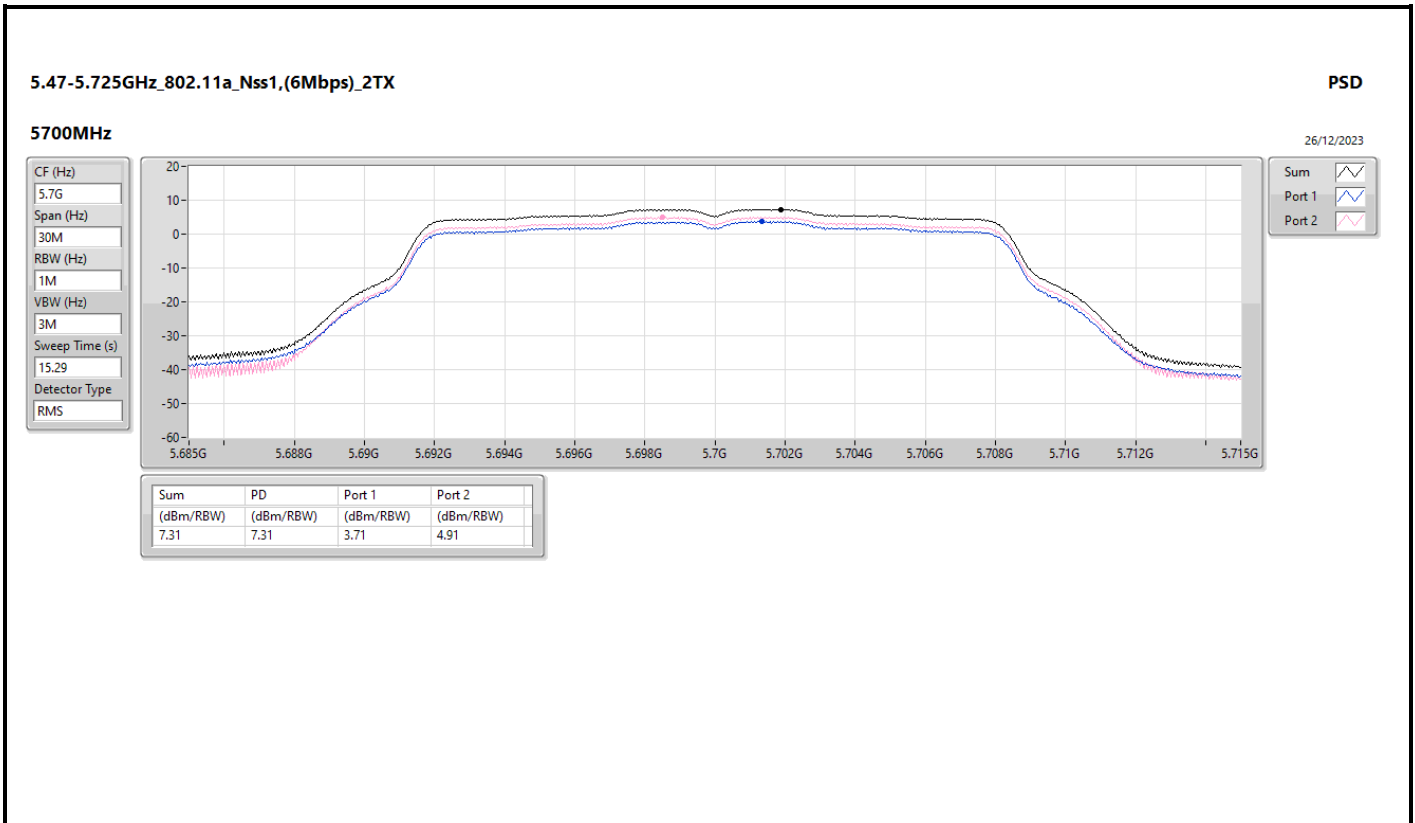
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

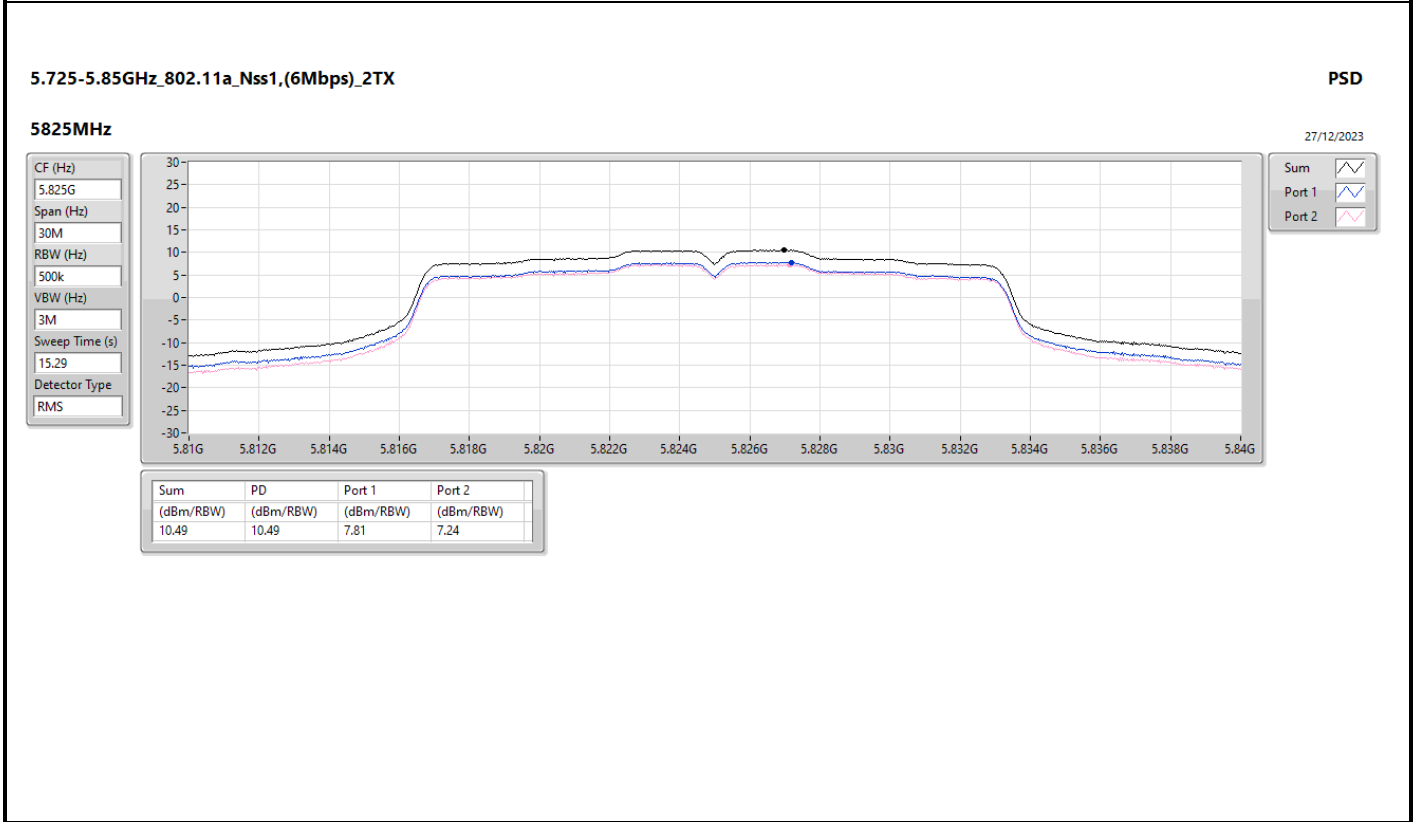
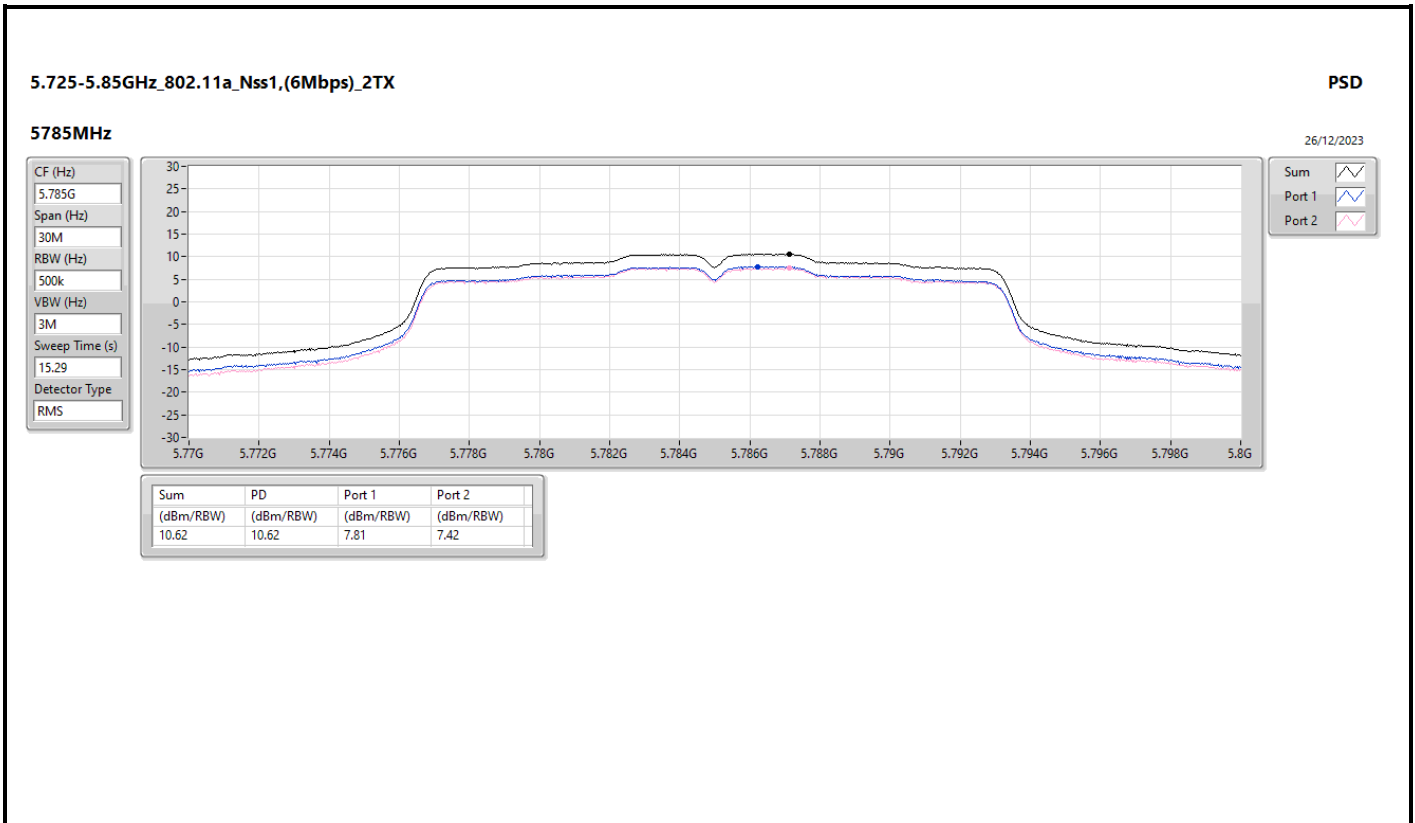


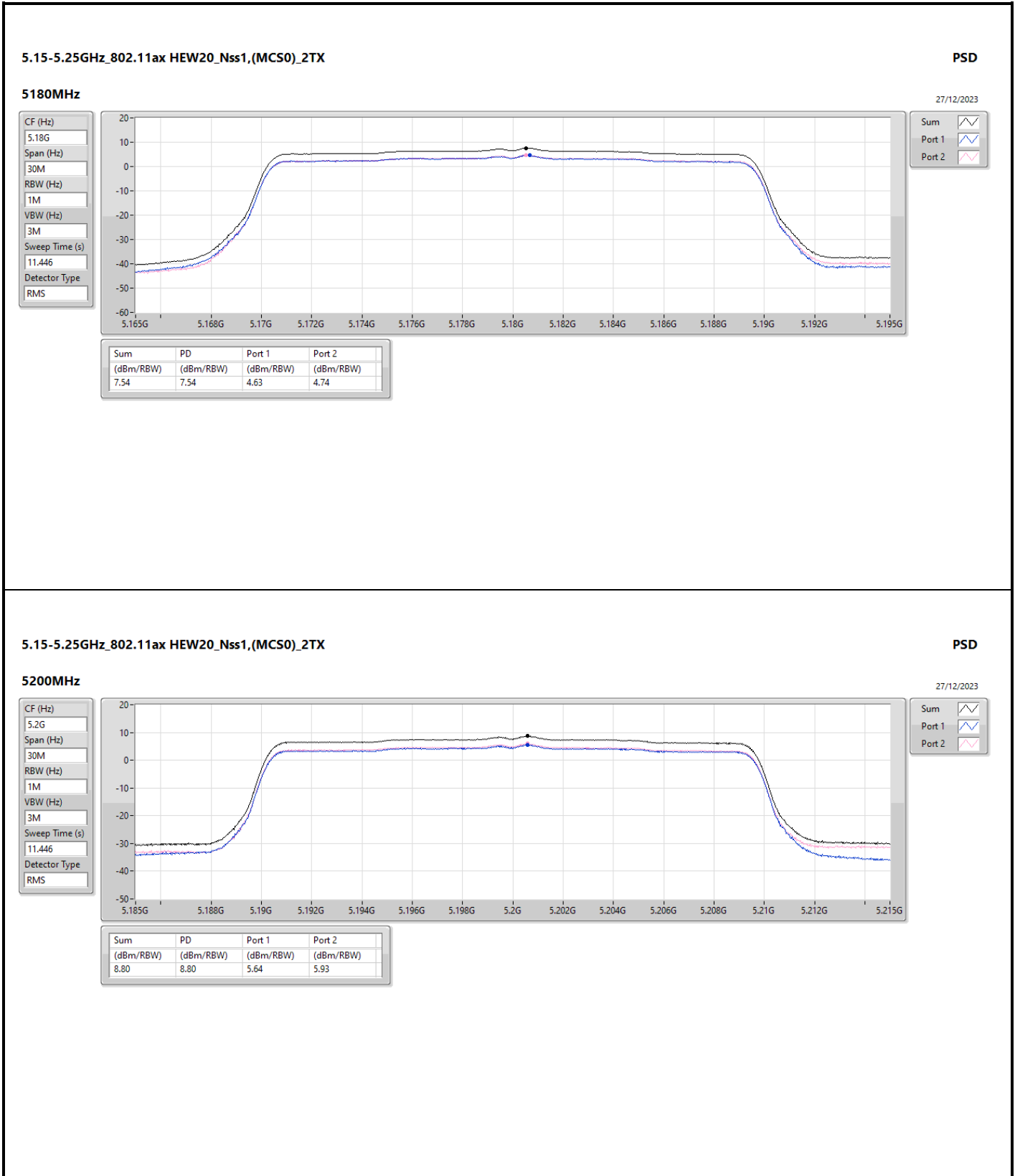


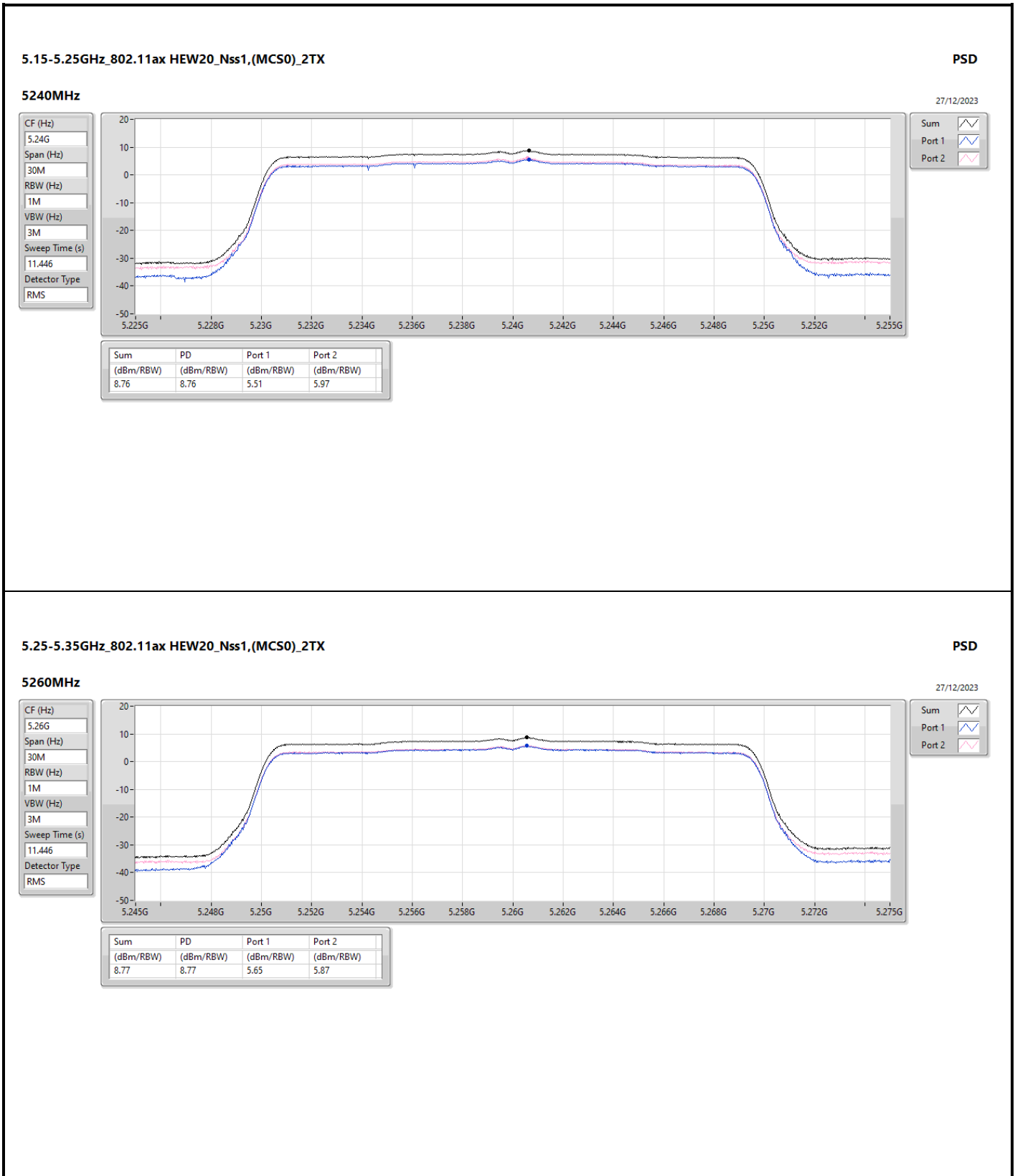


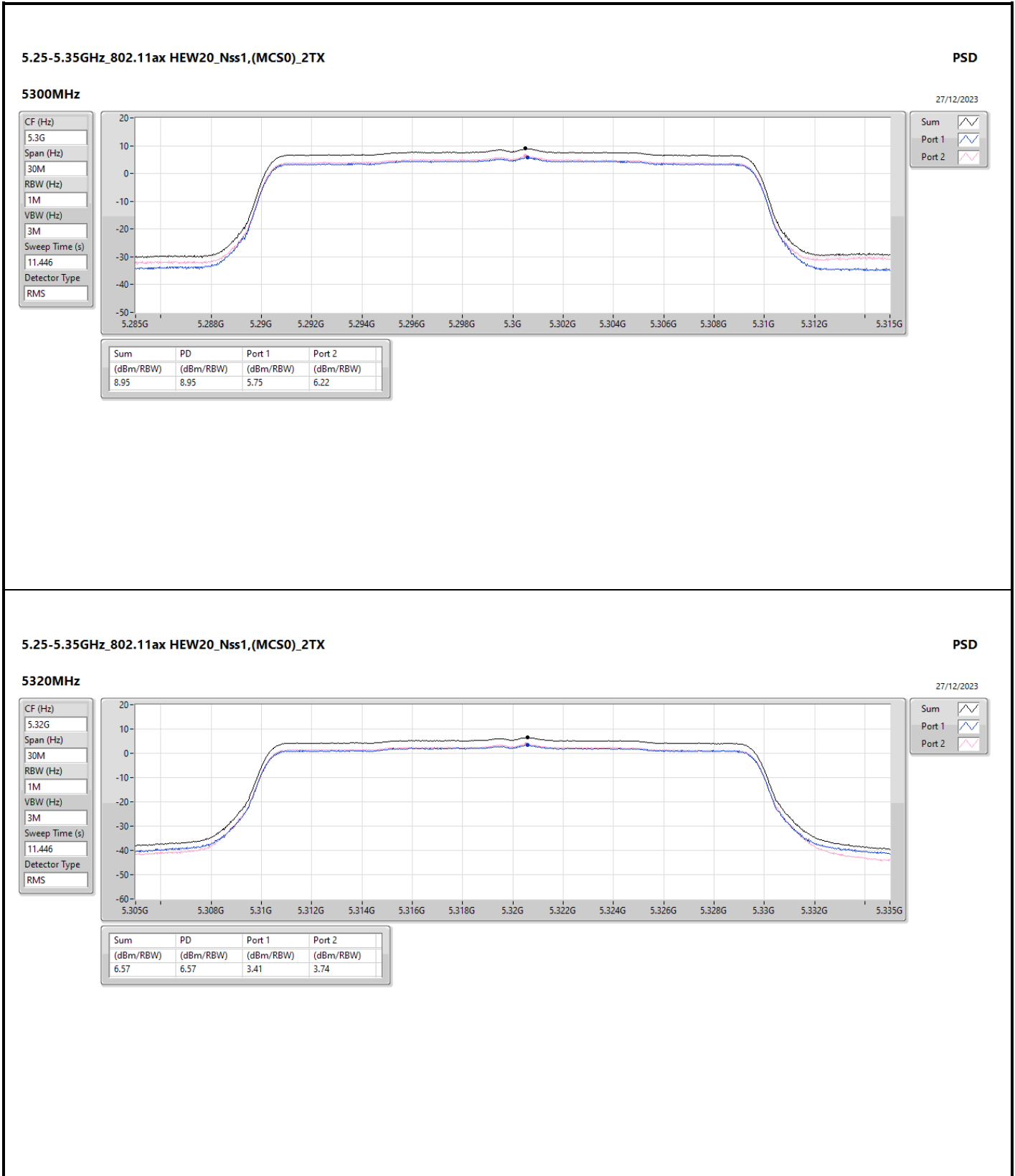


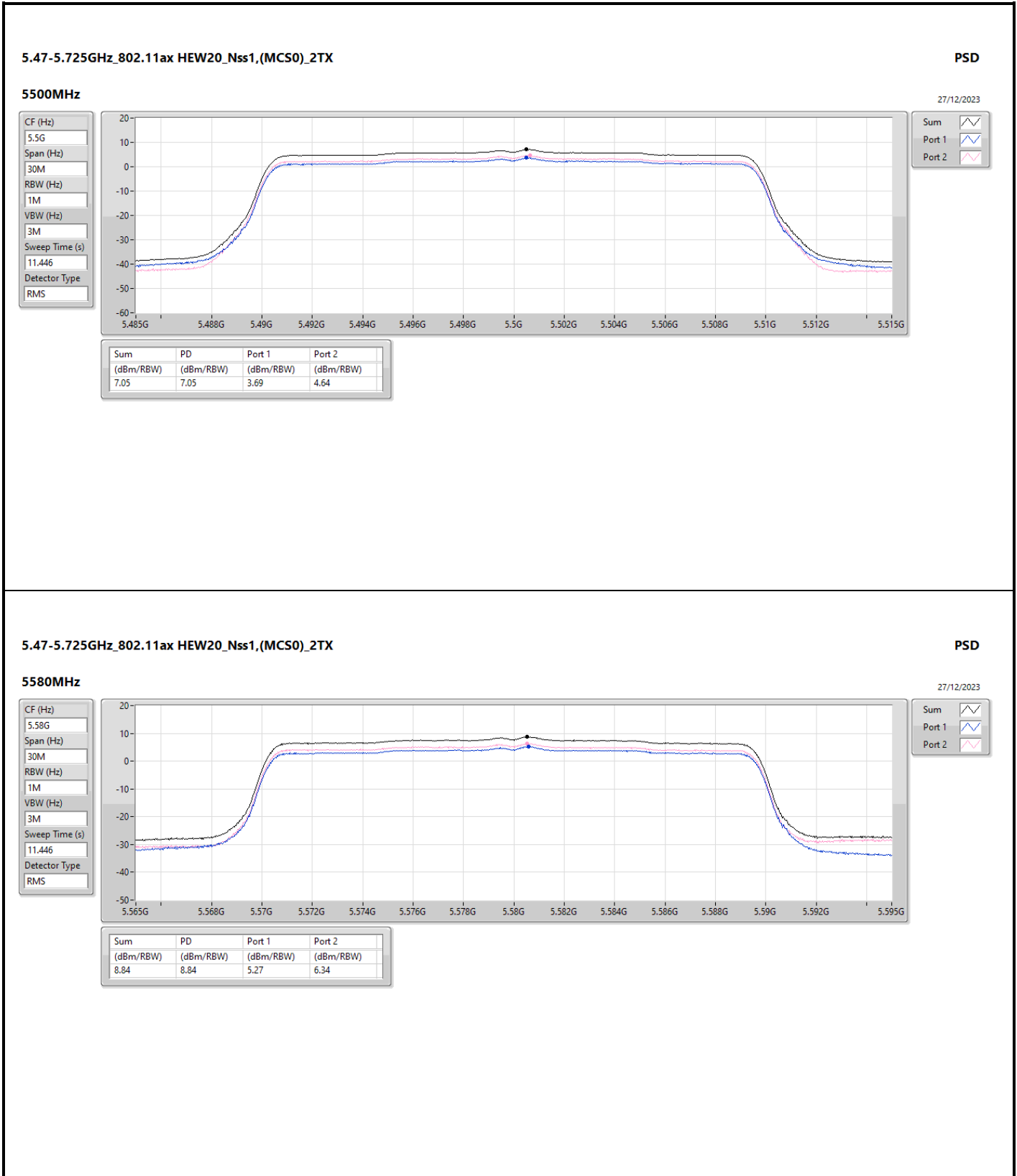


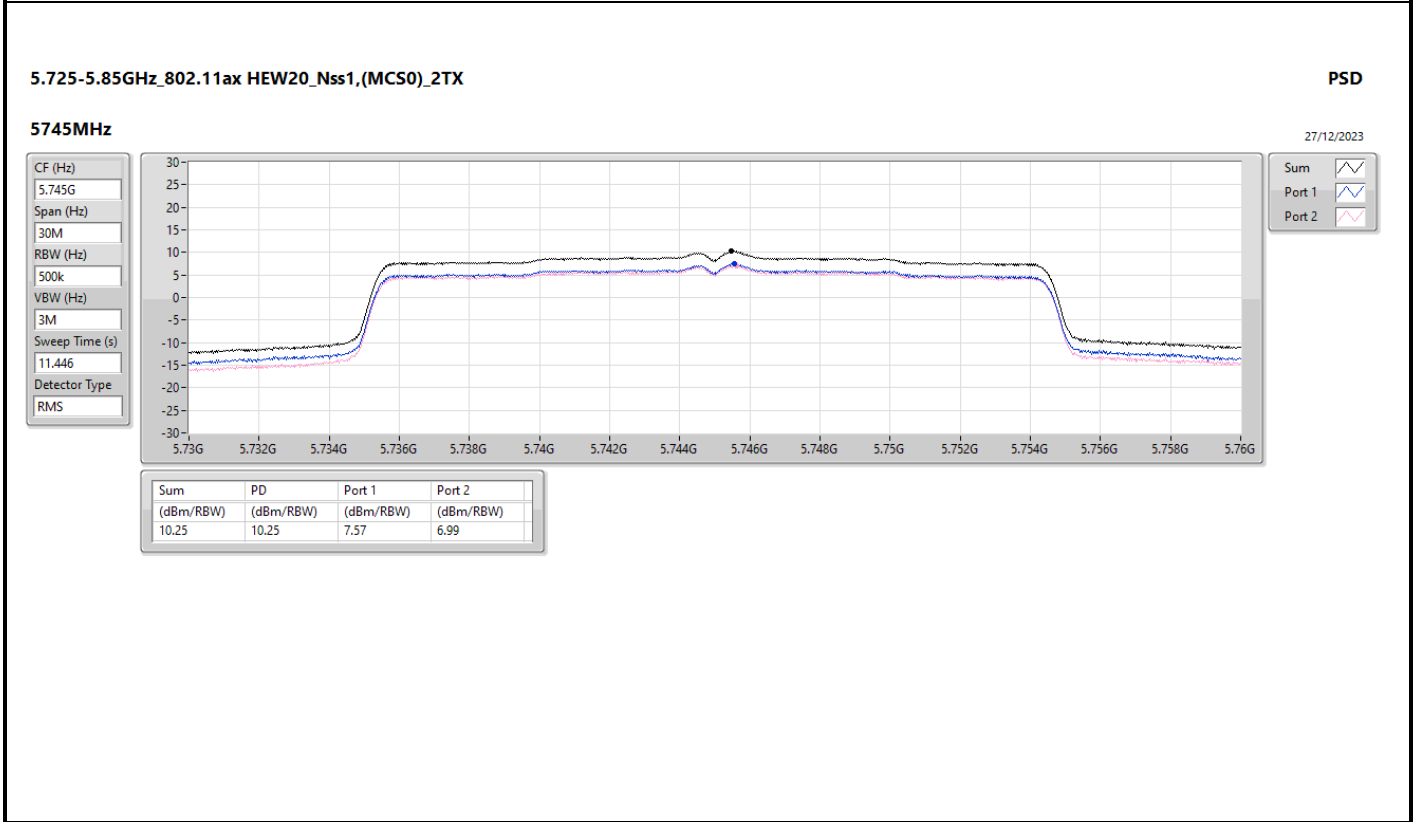
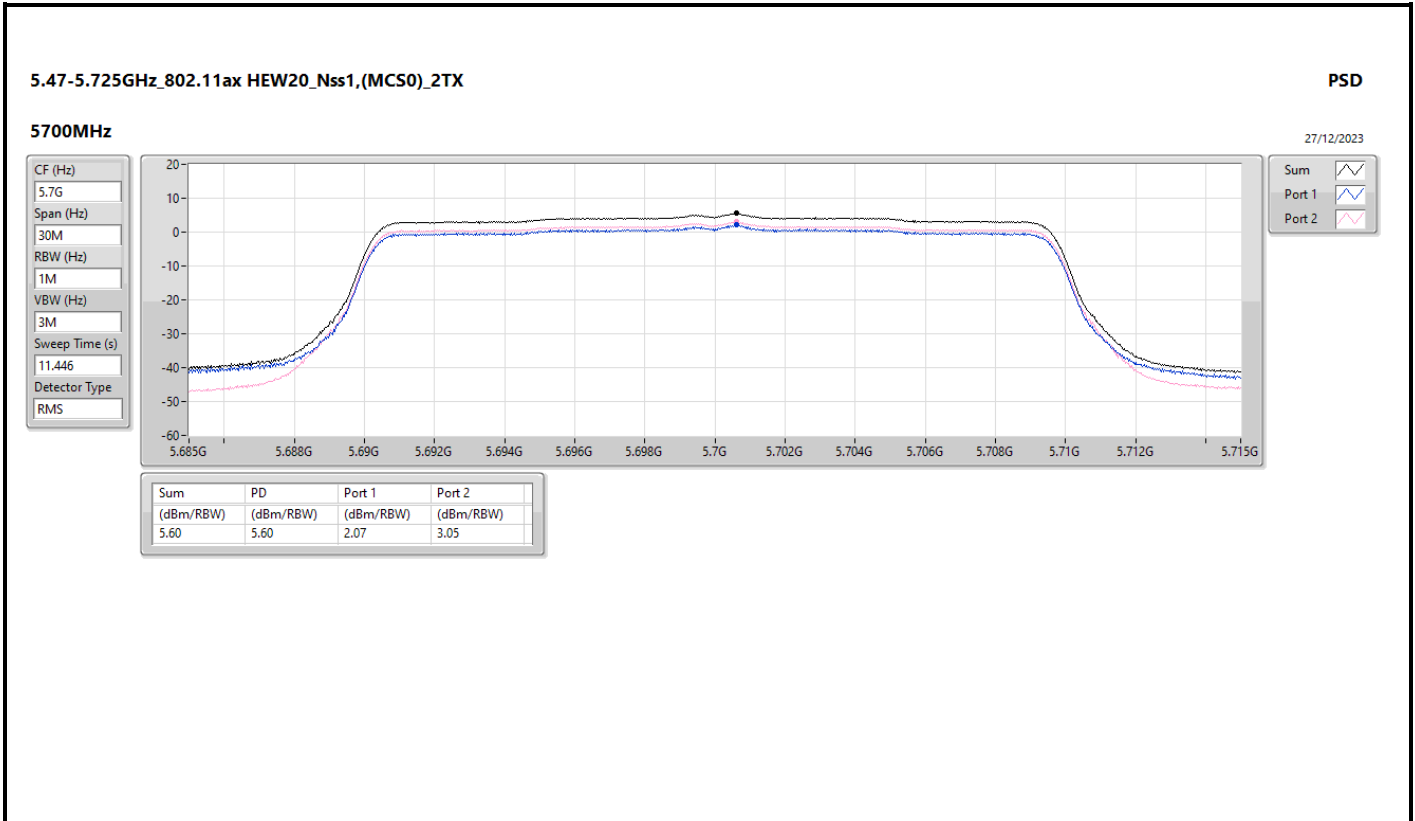


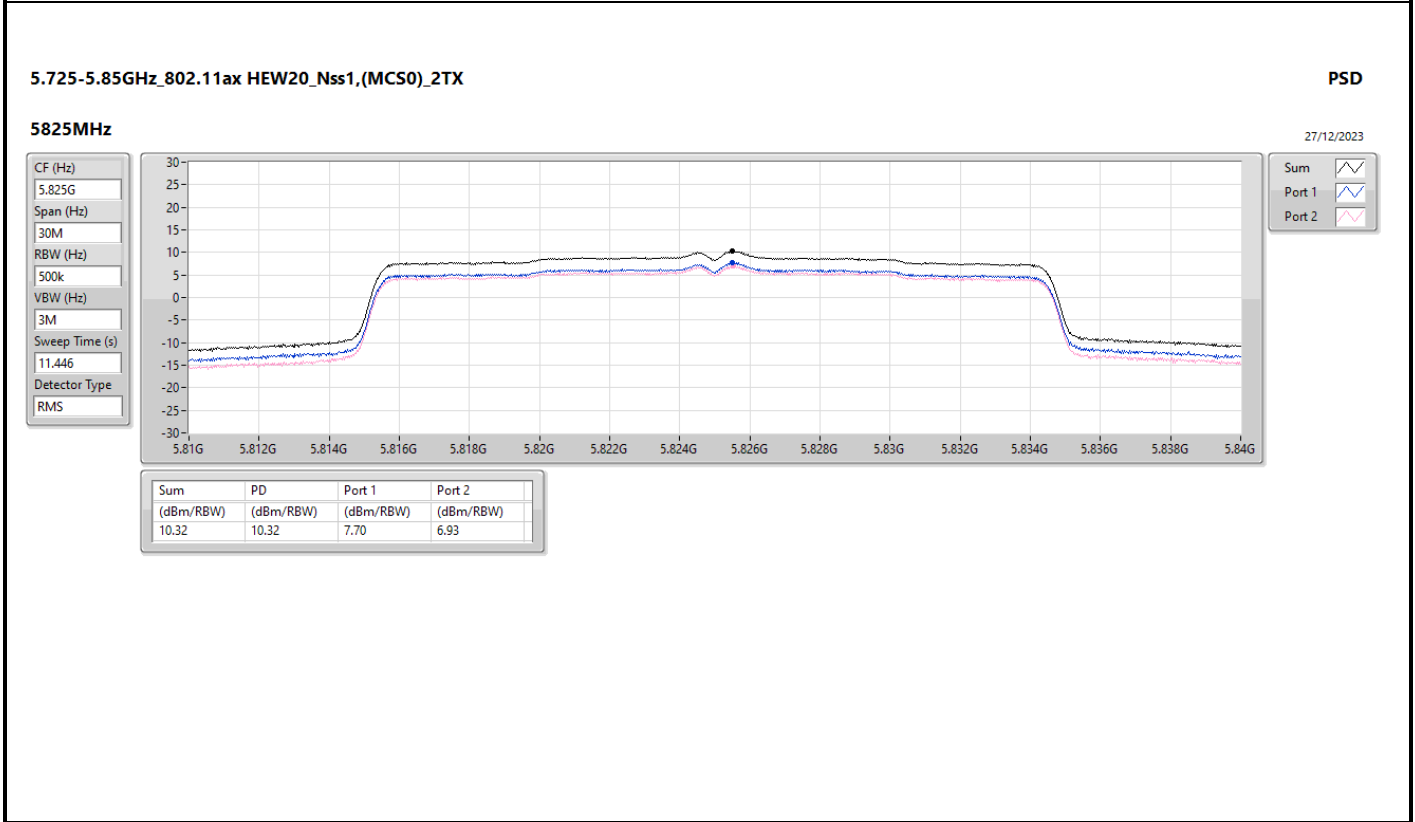
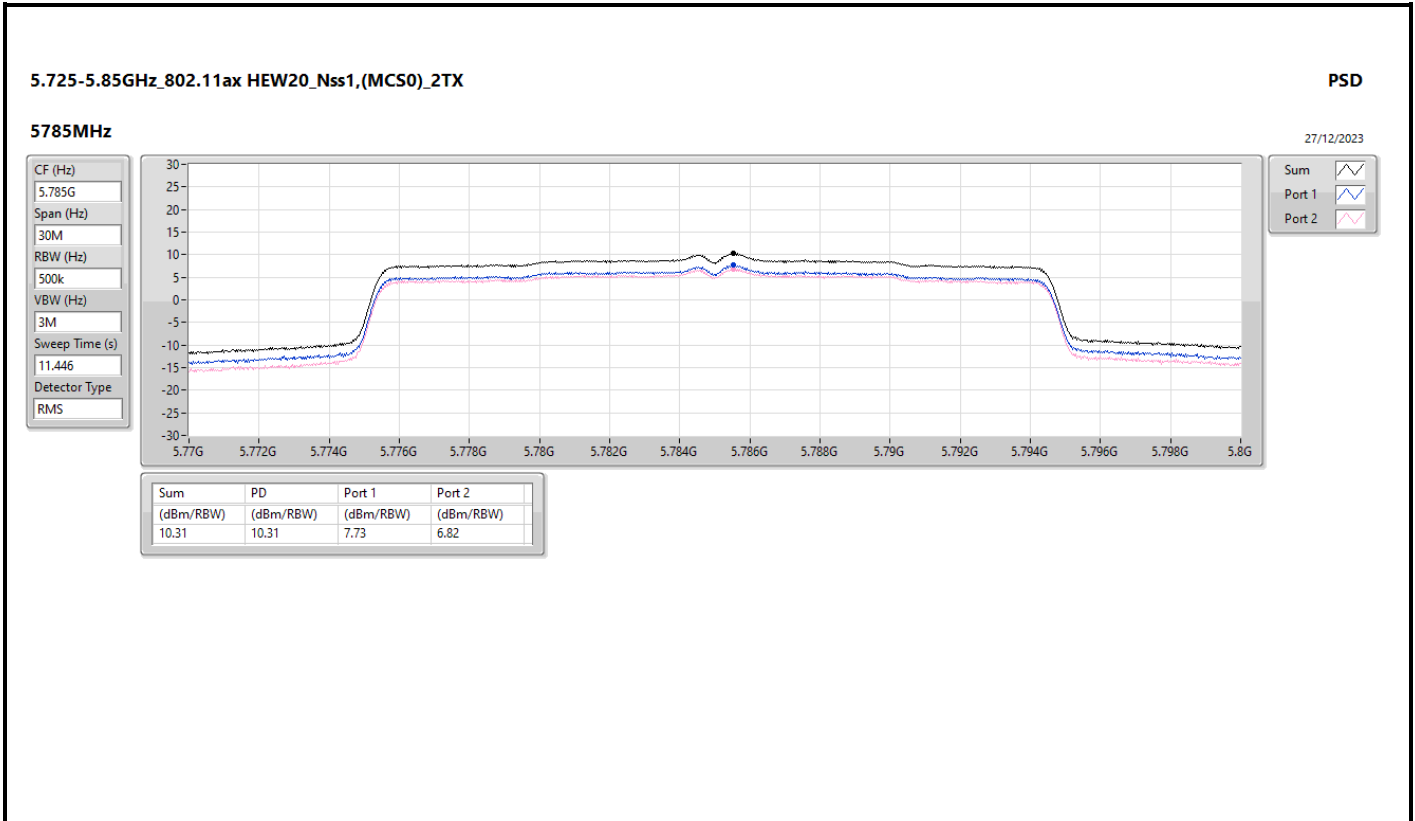


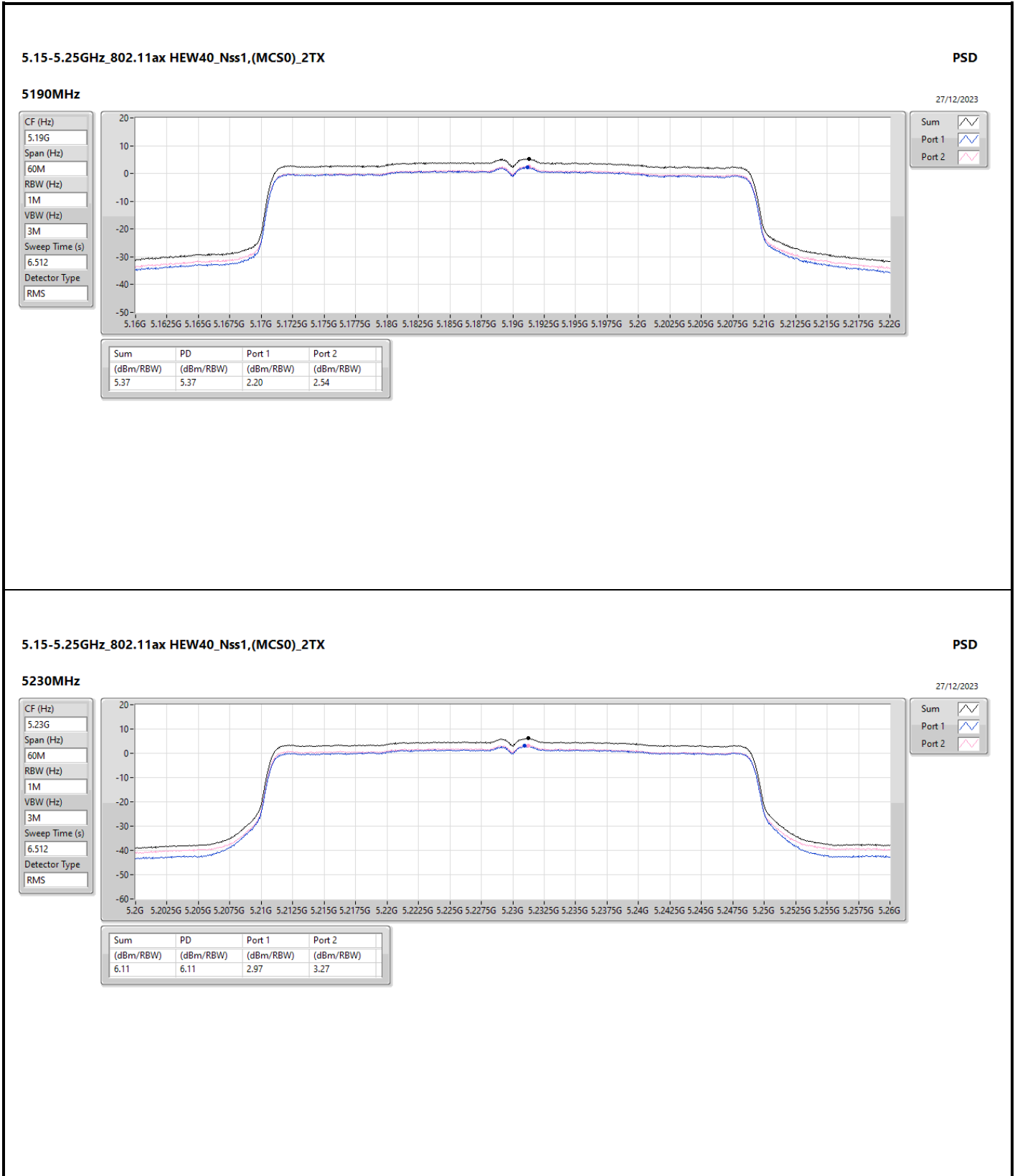


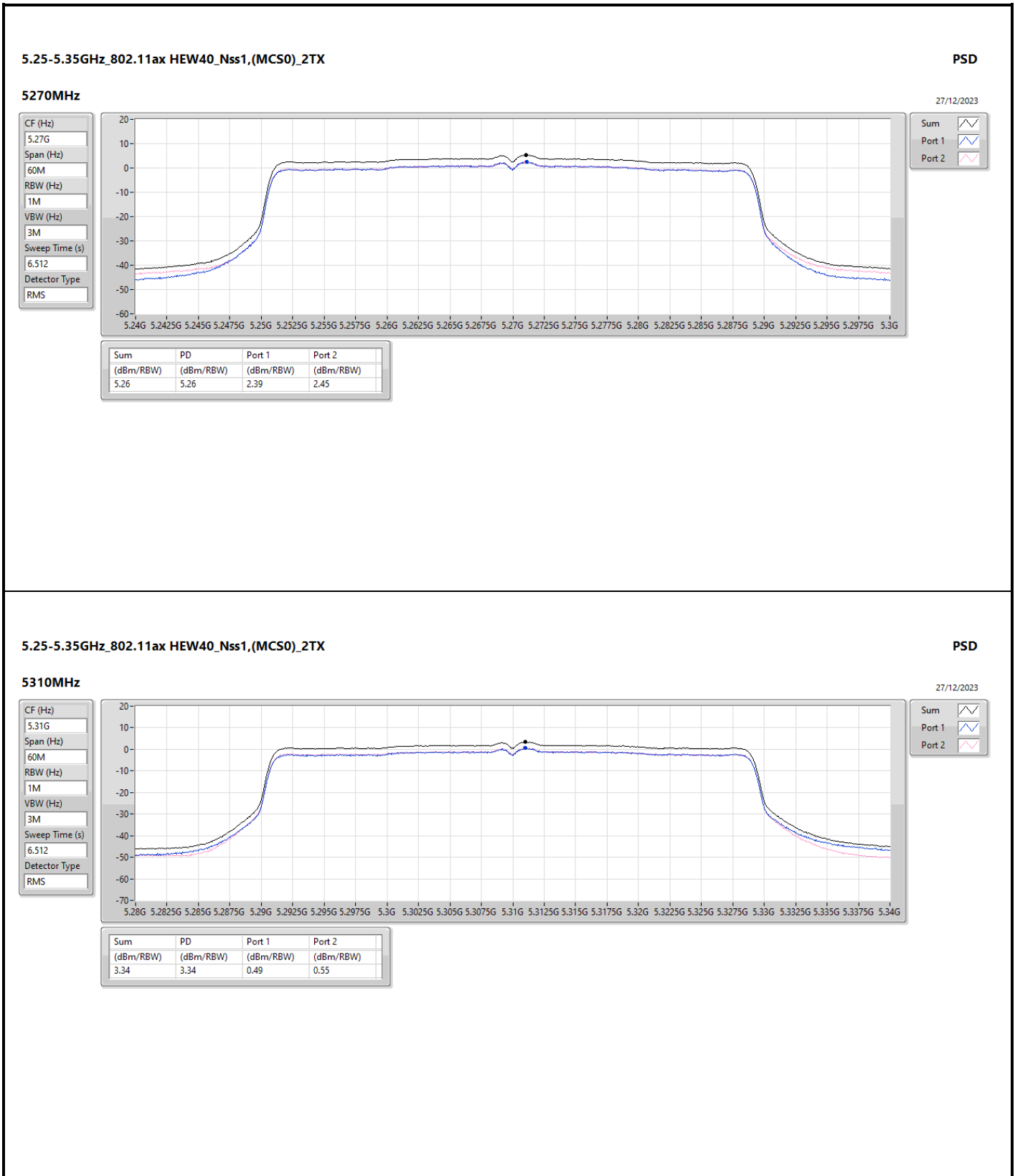


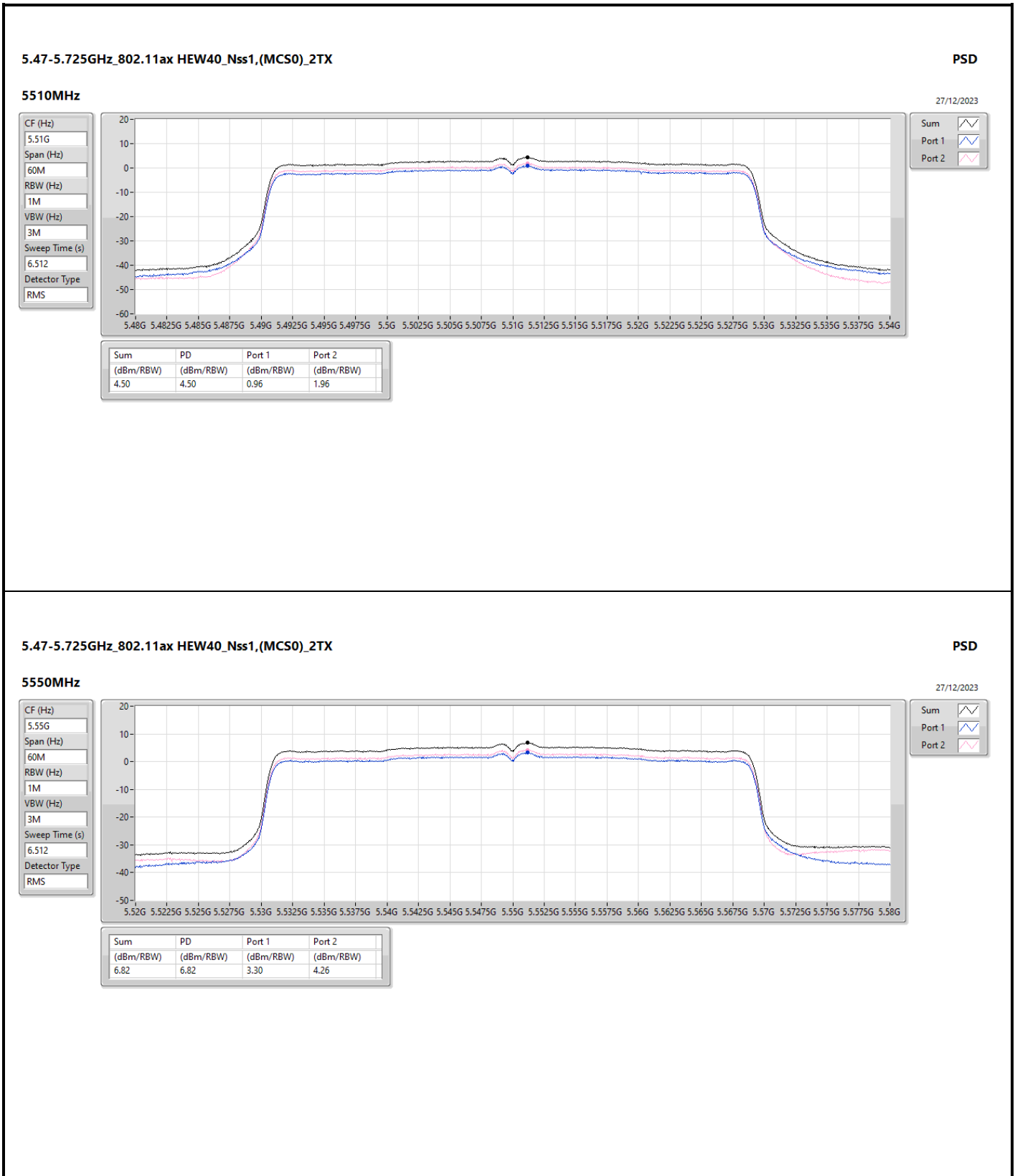


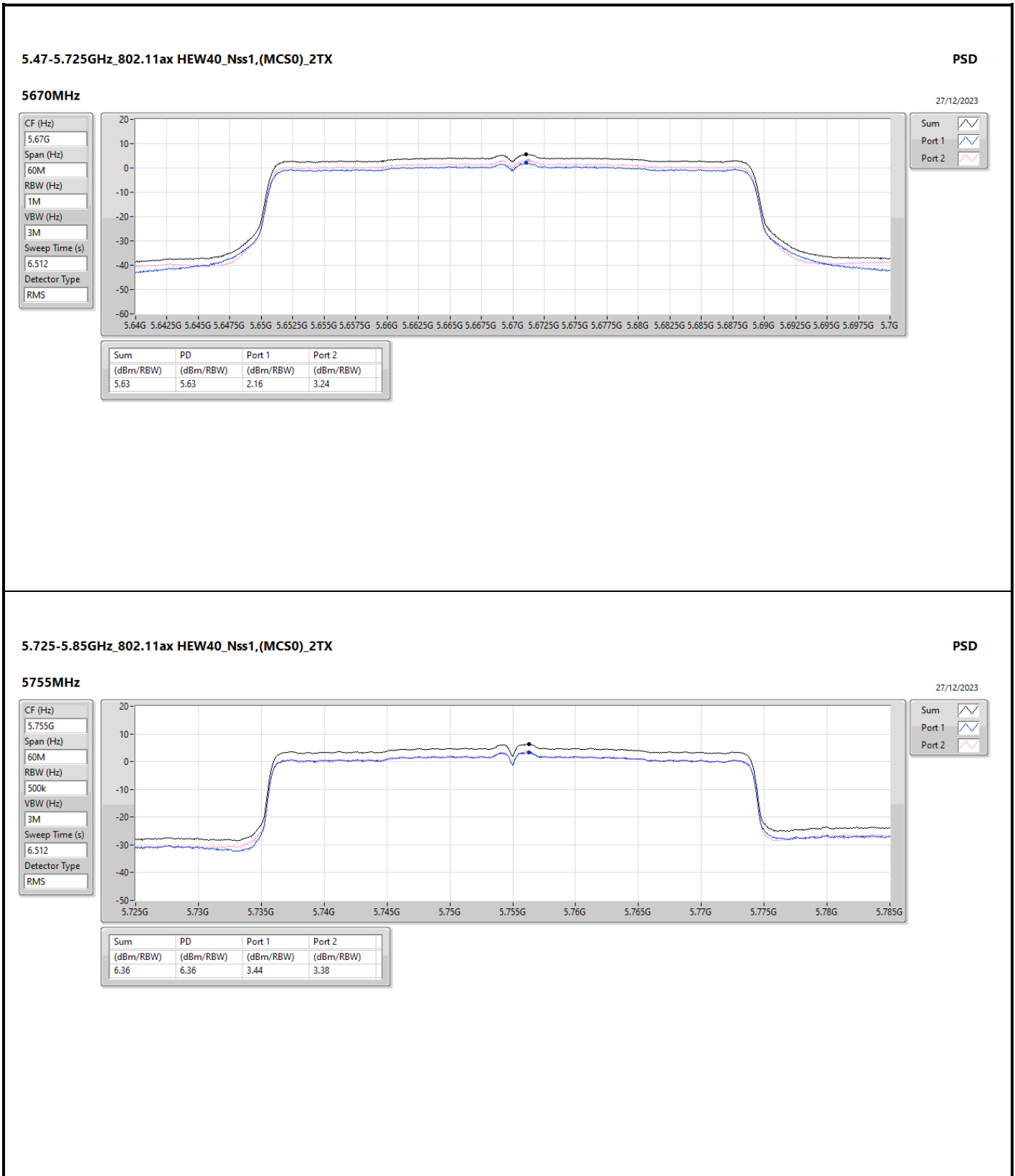


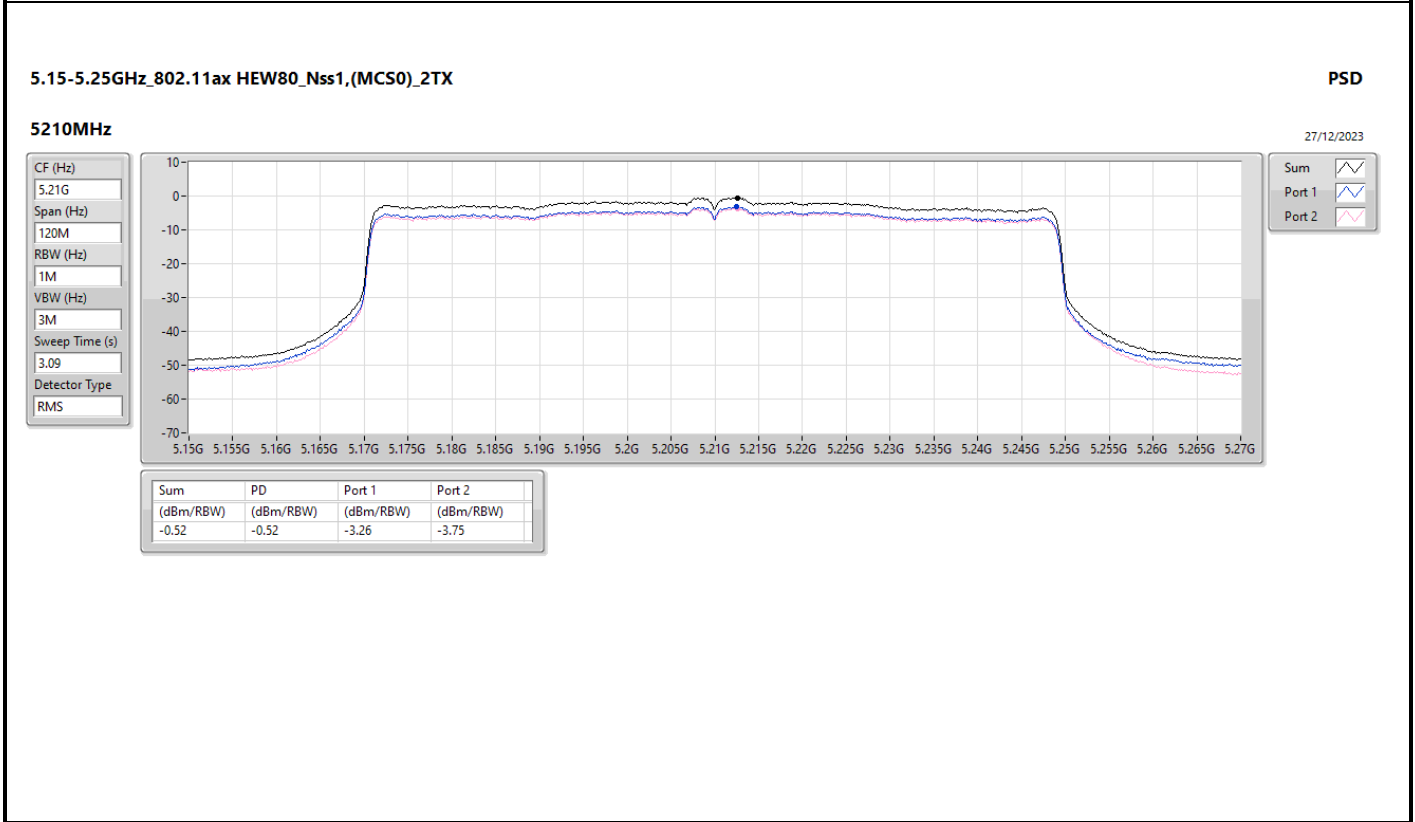
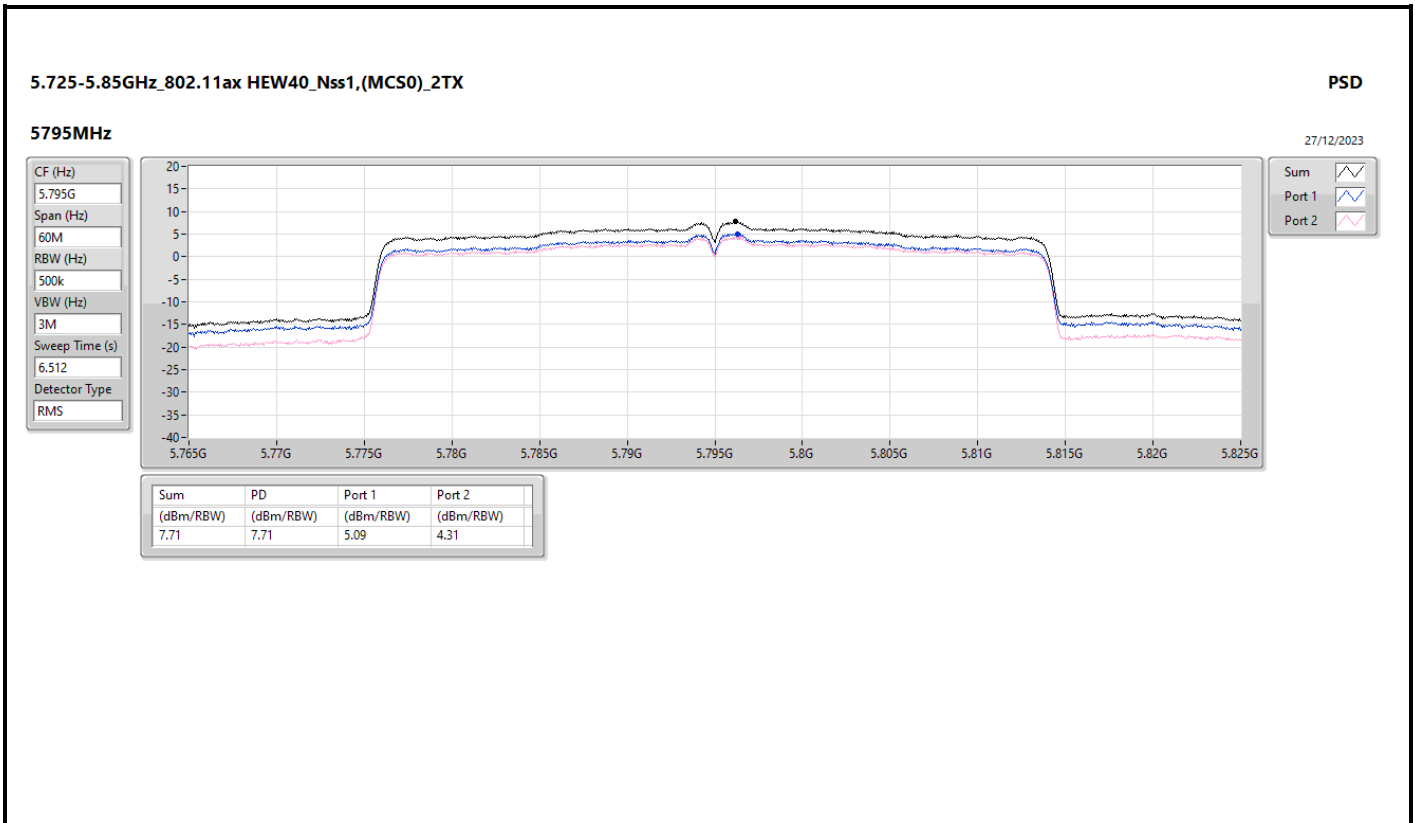


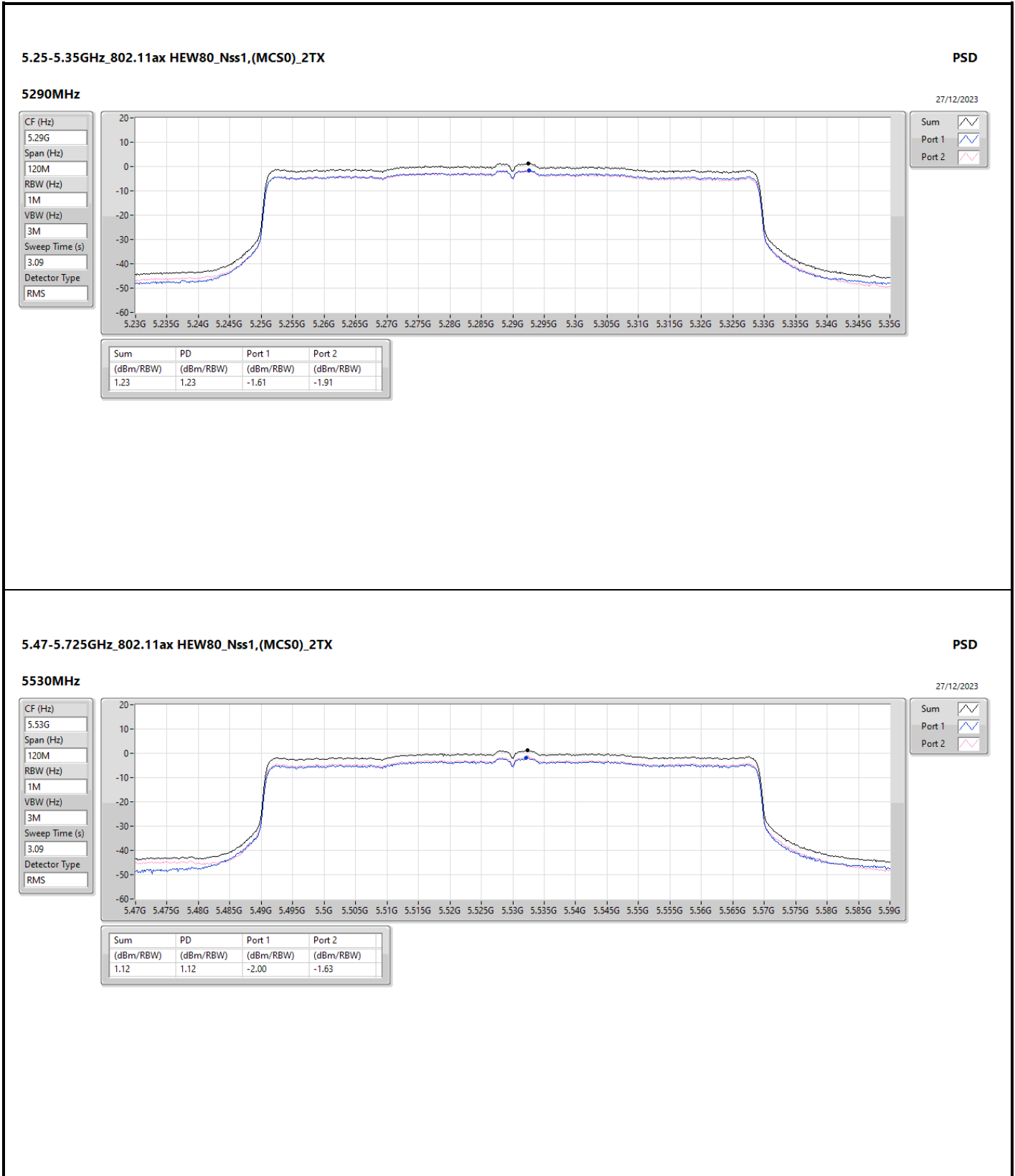
















Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_1TX	9.06
802.11ax HEW20_Nss1,(MCS0)_1TX	8.09
802.11ax HEW40_Nss1,(MCS0)_1TX	6.30
802.11ax HEW80_Nss1,(MCS0)_1TX	-0.64
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_1TX	8.77
802.11ax HEW20_Nss1,(MCS0)_1TX	7.85
802.11ax HEW40_Nss1,(MCS0)_1TX	5.48
802.11ax HEW80_Nss1,(MCS0)_1TX	-2.61
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_1TX	7.53
802.11ax HEW20_Nss1,(MCS0)_1TX	6.52
802.11ax HEW40_Nss1,(MCS0)_1TX	5.40
802.11ax HEW80_Nss1,(MCS0)_1TX	1.87
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_1TX	7.08
802.11ax HEW20_Nss1,(MCS0)_1TX	6.49
802.11ax HEW40_Nss1,(MCS0)_1TX	4.86
802.11ax HEW80_Nss1,(MCS0)_1TX	1.96

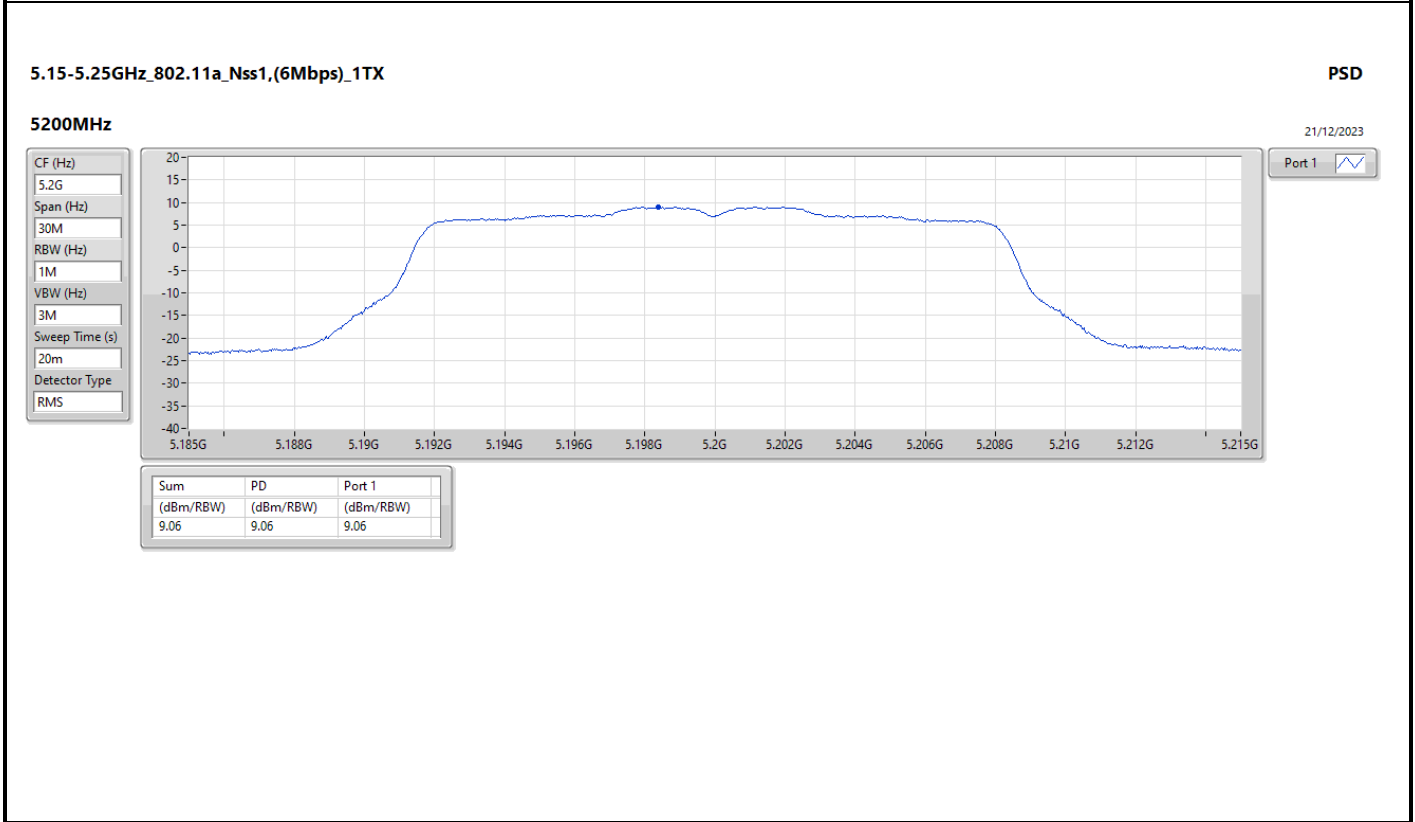
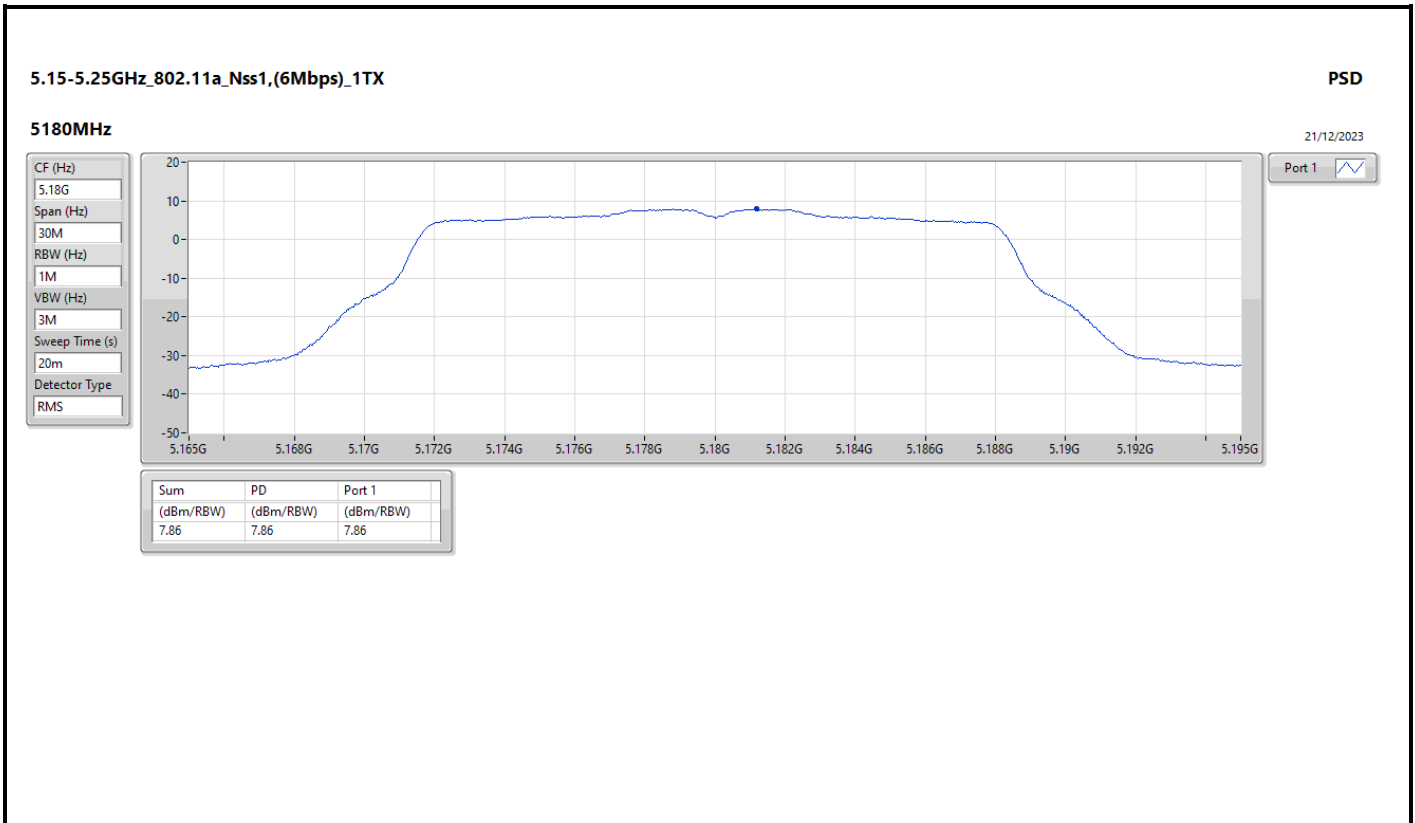
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band:

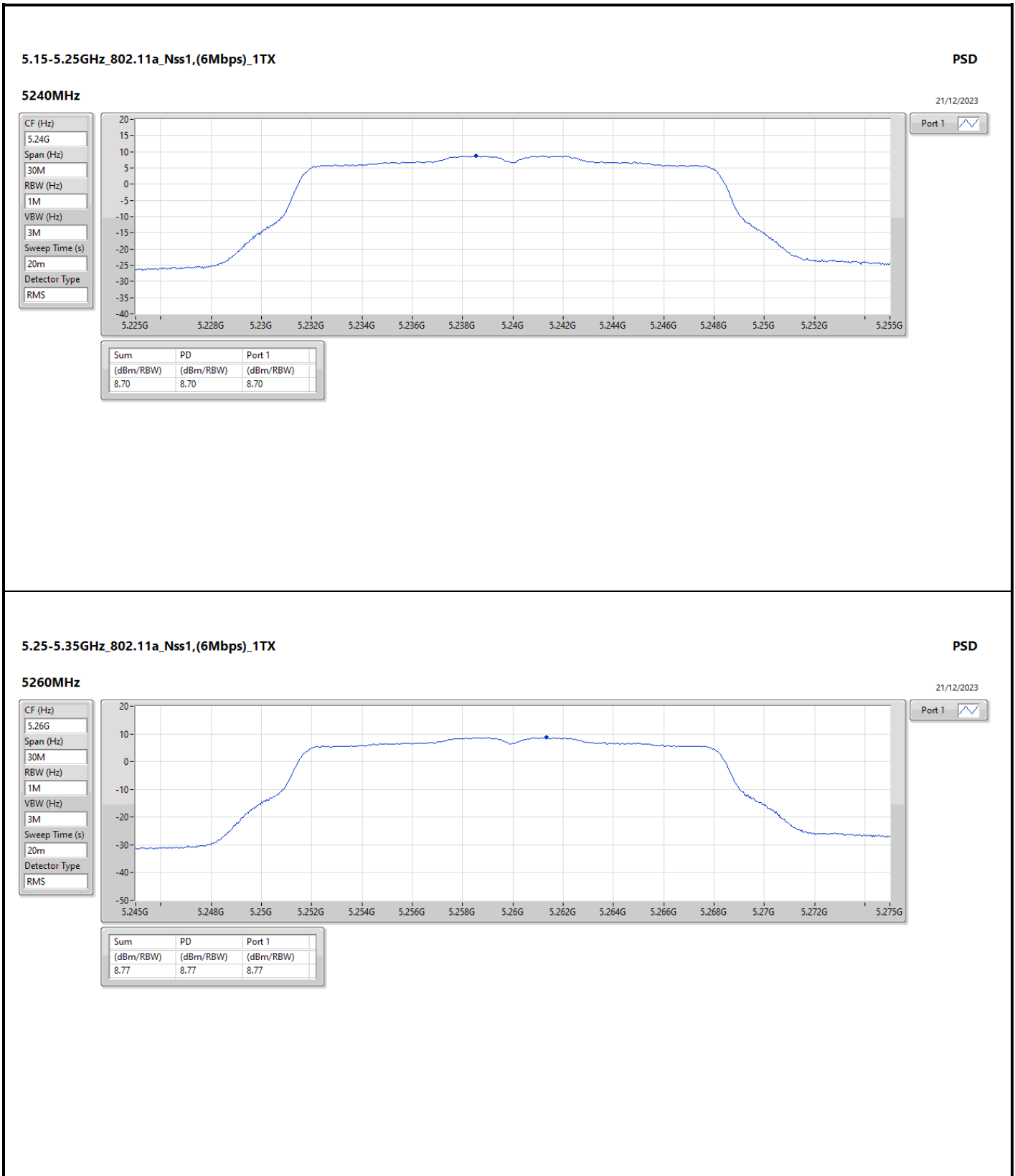


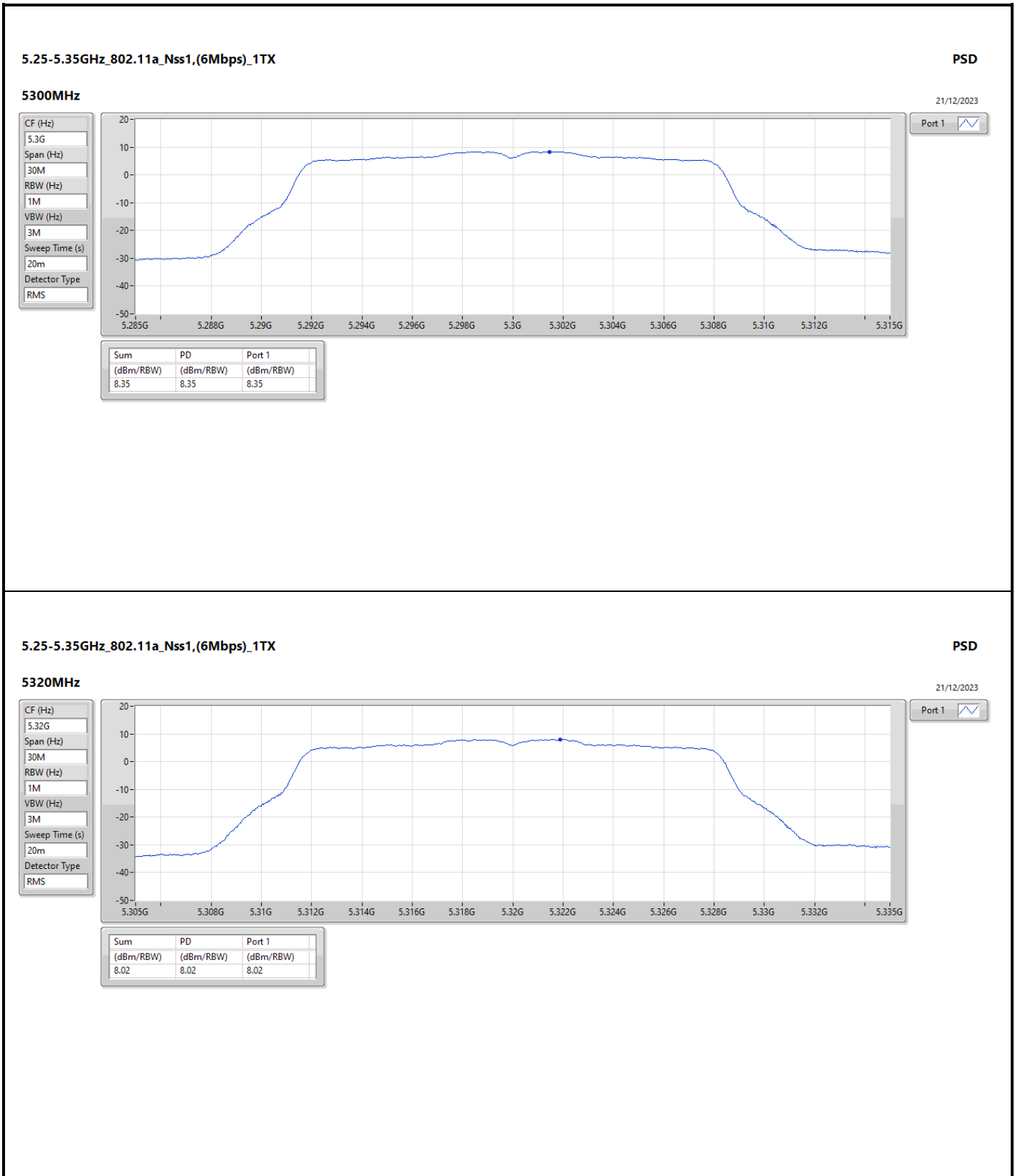
Result

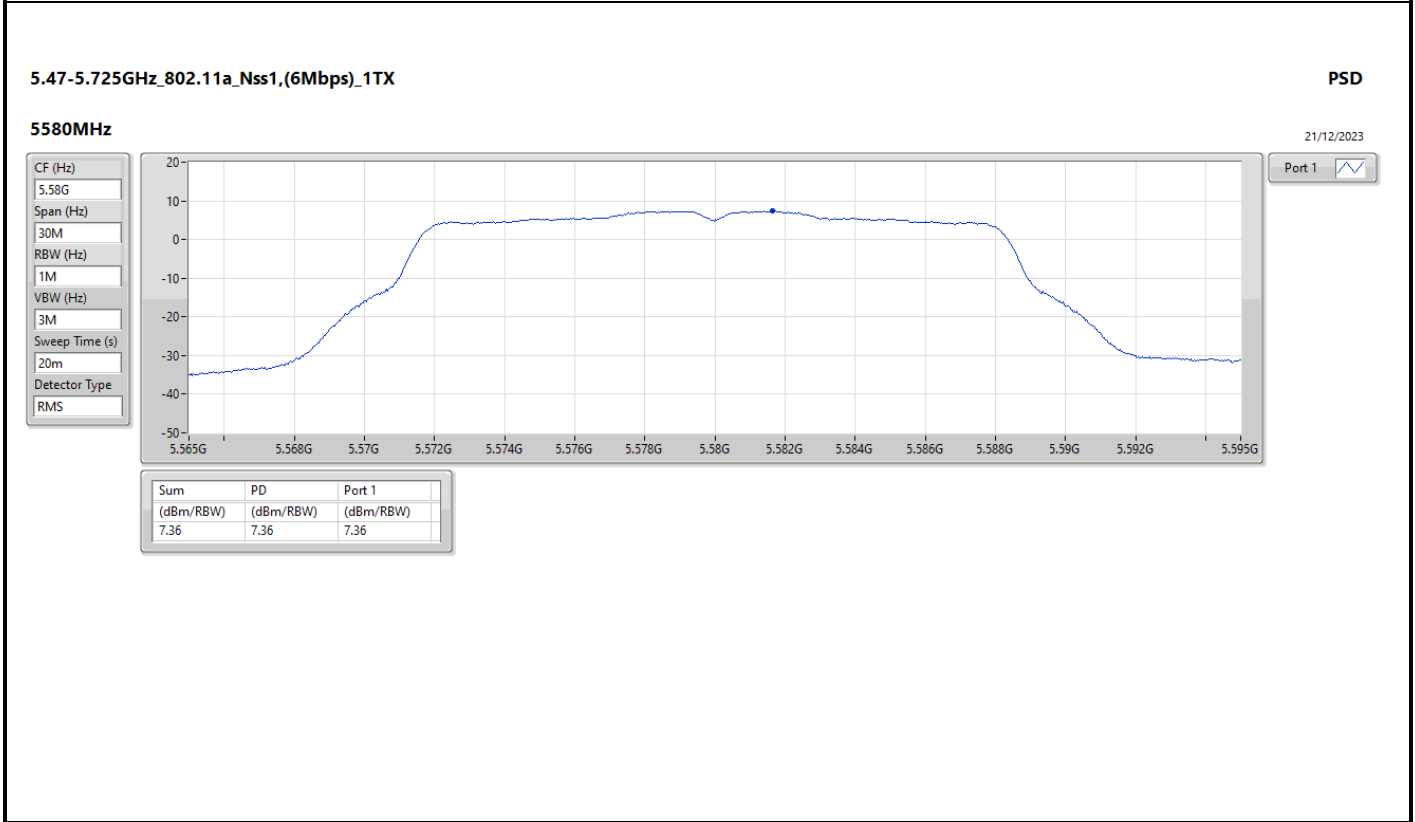
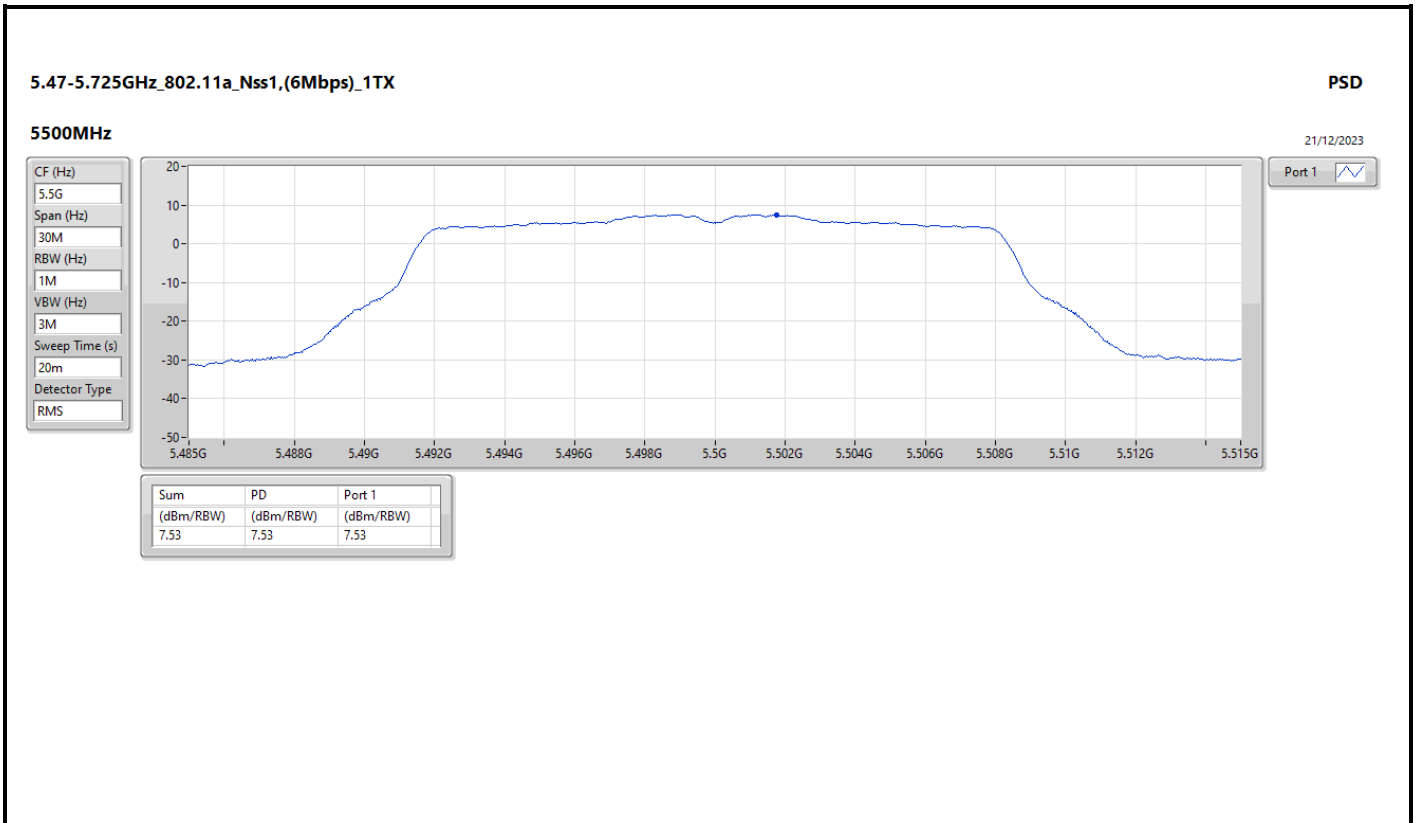
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5180MHz	Pass	5.00	7.86	7.86	11.00
5200MHz	Pass	5.00	9.06	9.06	11.00
5240MHz	Pass	5.00	8.70	8.70	11.00
5260MHz	Pass	5.00	8.77	8.77	11.00
5300MHz	Pass	5.00	8.35	8.35	11.00
5320MHz	Pass	5.00	8.02	8.02	11.00
5500MHz	Pass	5.00	7.53	7.53	11.00
5580MHz	Pass	5.00	7.36	7.36	11.00
5700MHz	Pass	5.00	4.71	4.71	11.00
5745MHz	Pass	5.00	6.98	6.98	30.00
5785MHz	Pass	5.00	6.75	6.75	30.00
5825MHz	Pass	5.00	7.08	7.08	30.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
5180MHz	Pass	5.00	7.52	7.52	11.00
5200MHz	Pass	5.00	7.73	7.73	11.00
5240MHz	Pass	5.00	8.09	8.09	11.00
5260MHz	Pass	5.00	7.85	7.85	11.00
5300MHz	Pass	5.00	7.66	7.66	11.00
5320MHz	Pass	5.00	6.03	6.03	11.00
5500MHz	Pass	5.00	6.32	6.32	11.00
5580MHz	Pass	5.00	6.52	6.52	11.00
5700MHz	Pass	5.00	3.94	3.94	11.00
5745MHz	Pass	5.00	6.26	6.26	30.00
5785MHz	Pass	5.00	6.23	6.23	30.00
5825MHz	Pass	5.00	6.49	6.49	30.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
5190MHz	Pass	5.00	3.78	3.78	11.00
5230MHz	Pass	5.00	6.30	6.30	11.00
5270MHz	Pass	5.00	5.48	5.48	11.00
5310MHz	Pass	5.00	3.30	3.30	11.00
5510MHz	Pass	5.00	3.08	3.08	11.00
5550MHz	Pass	5.00	5.40	5.40	11.00
5670MHz	Pass	5.00	4.86	4.86	11.00
5755MHz	Pass	5.00	4.86	4.86	30.00
5795MHz	Pass	5.00	4.82	4.82	30.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-
5210MHz	Pass	5.00	-0.64	-0.64	11.00
5290MHz	Pass	5.00	-2.61	-2.61	11.00
5530MHz	Pass	5.00	0.22	0.22	11.00
5610MHz	Pass	5.00	1.87	1.87	11.00
5775MHz	Pass	5.00	1.96	1.96	30.00

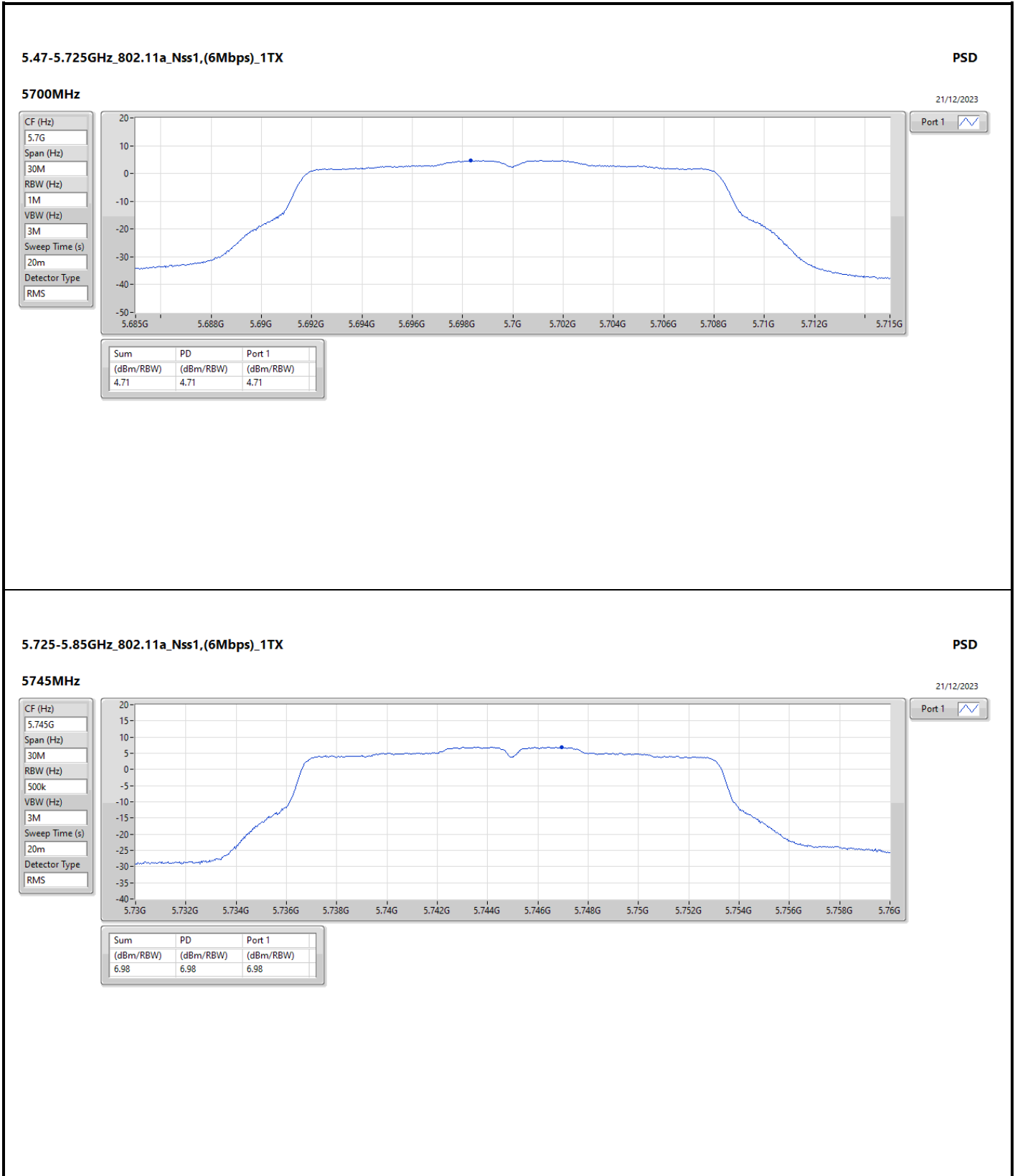
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

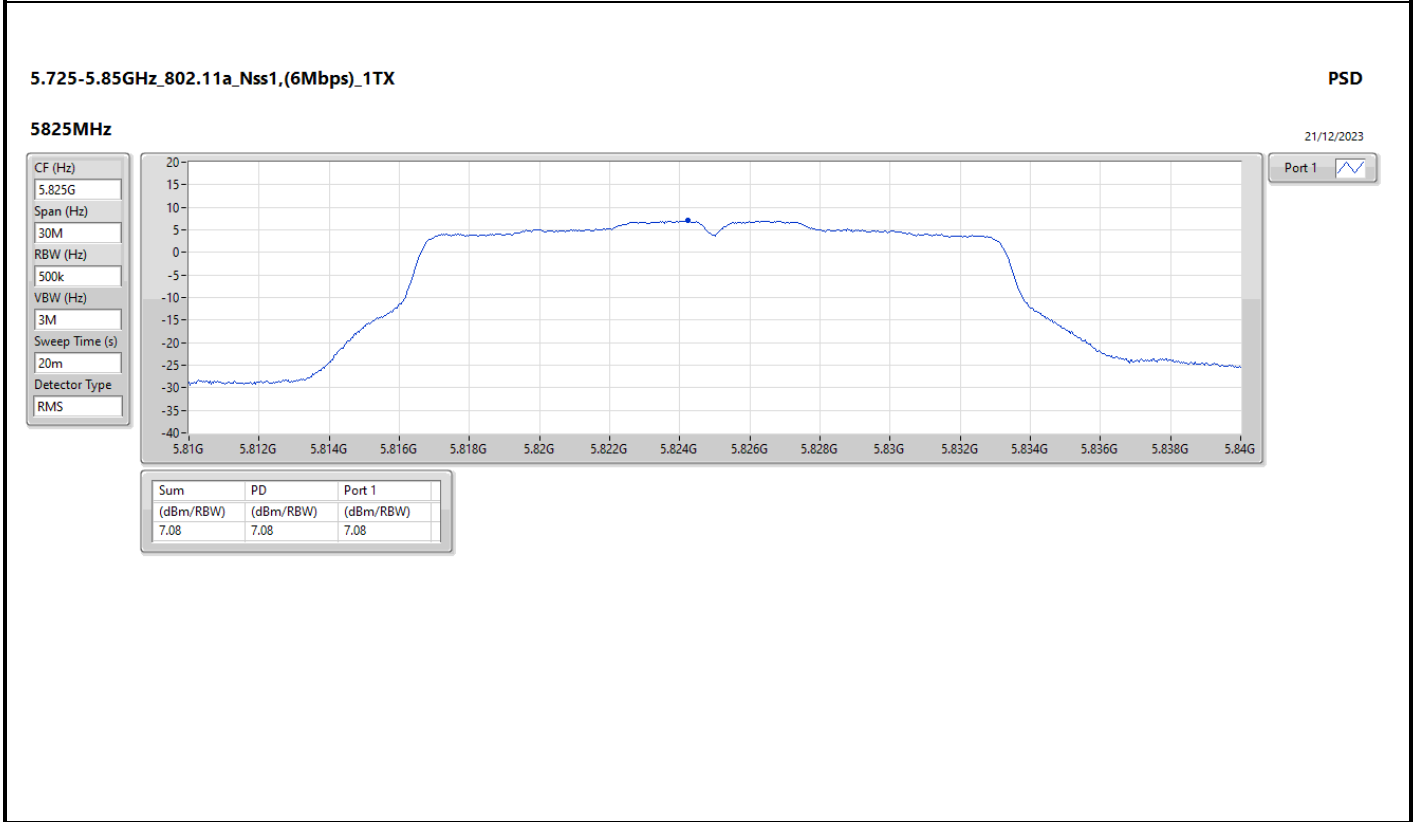
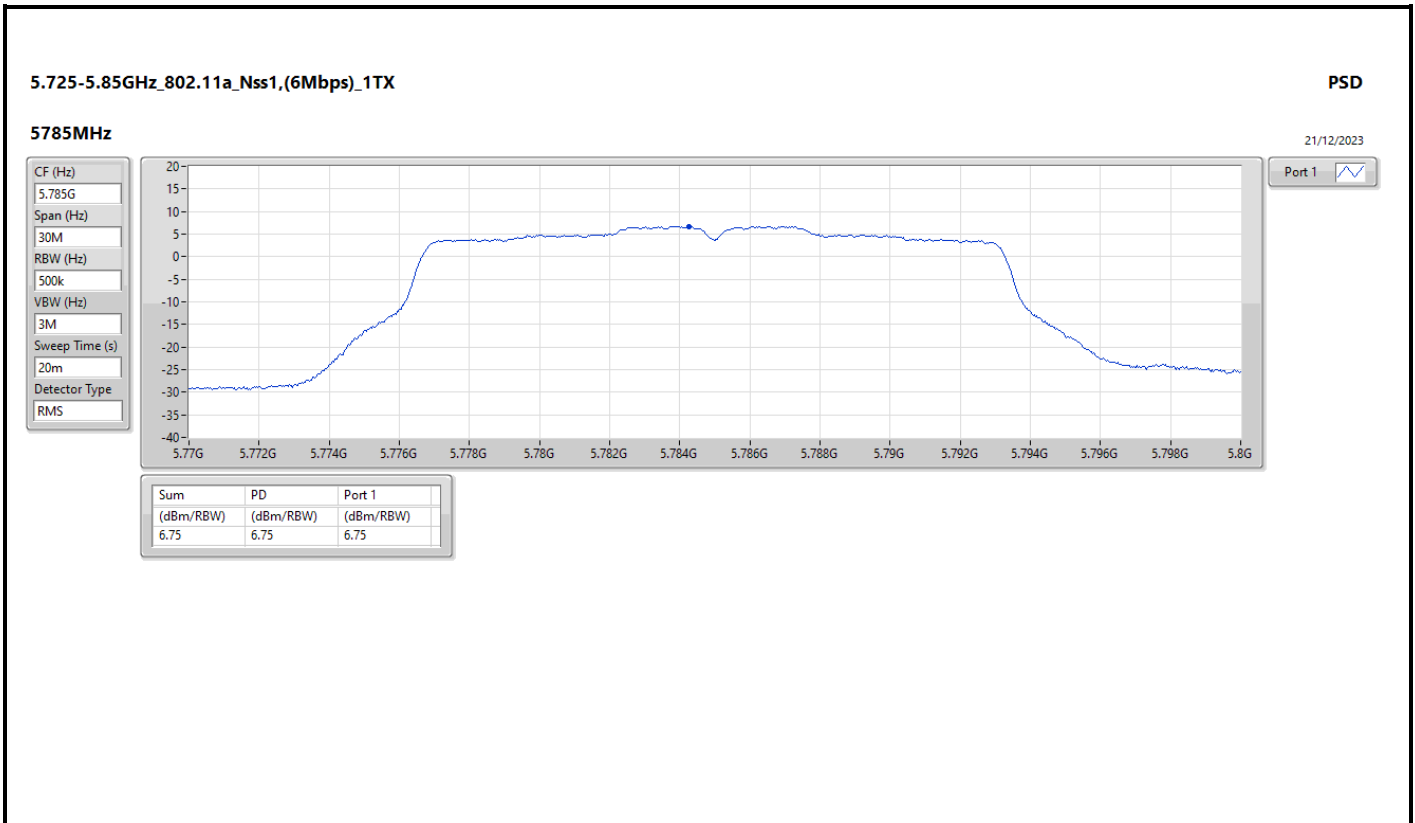


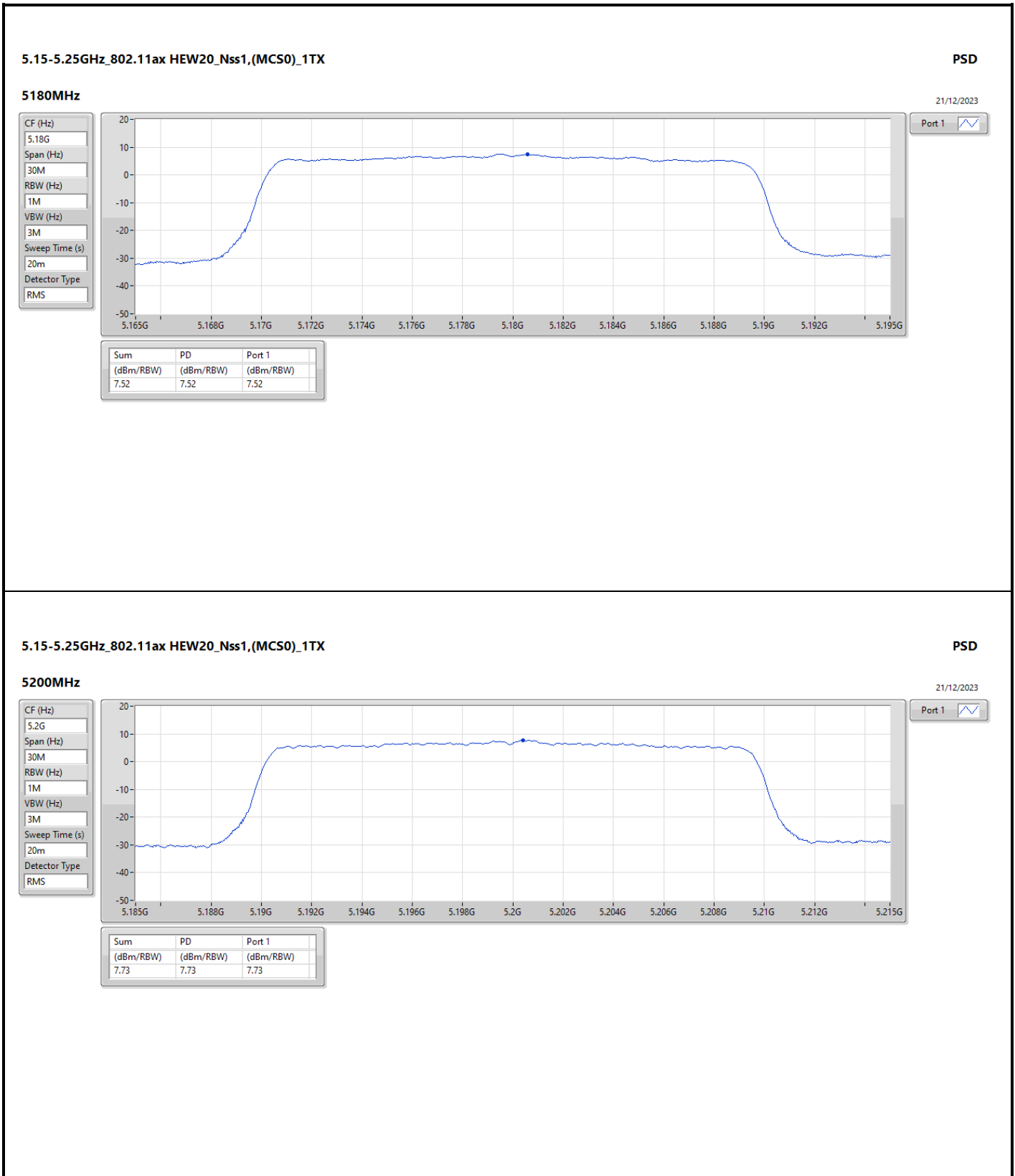


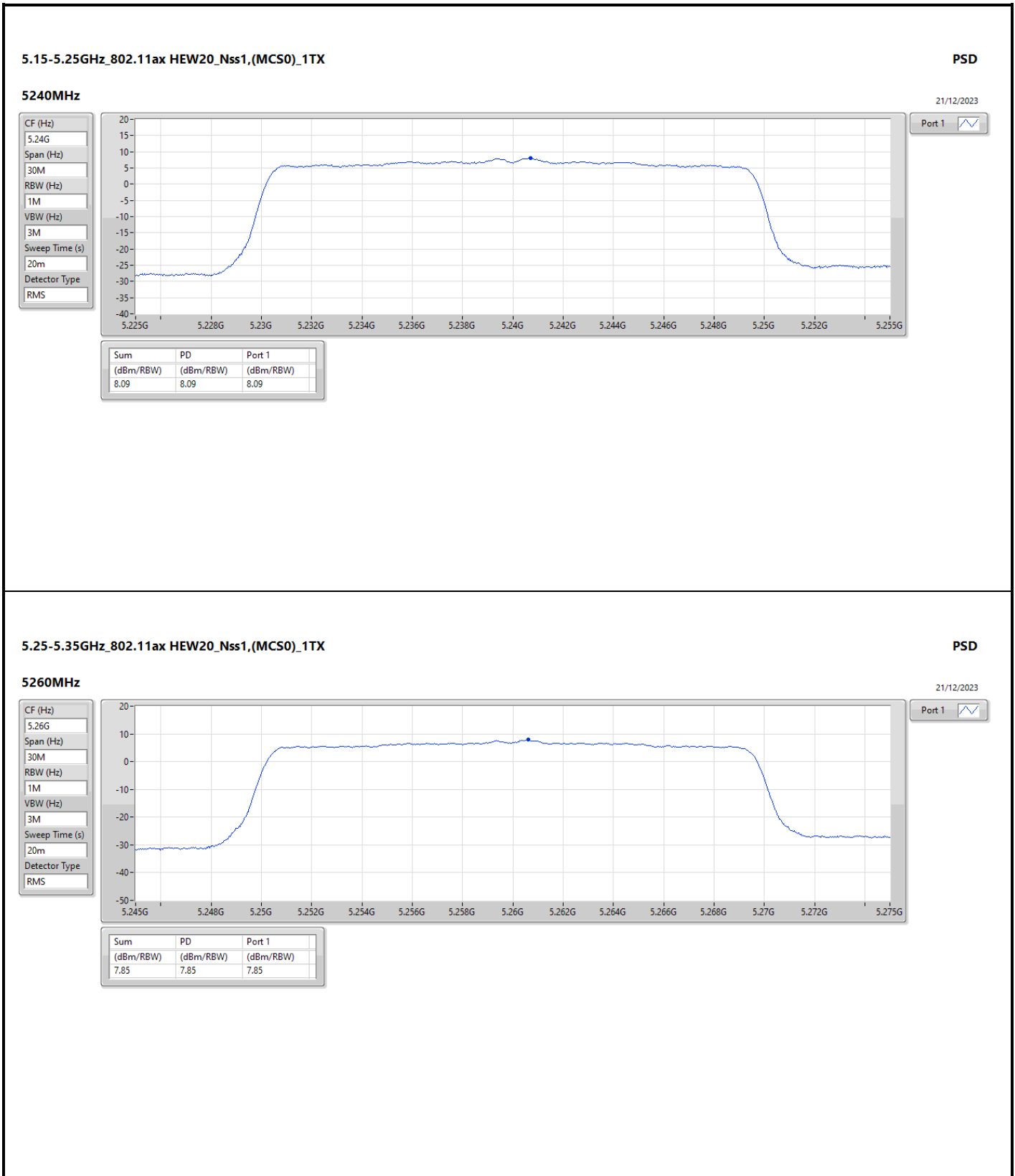


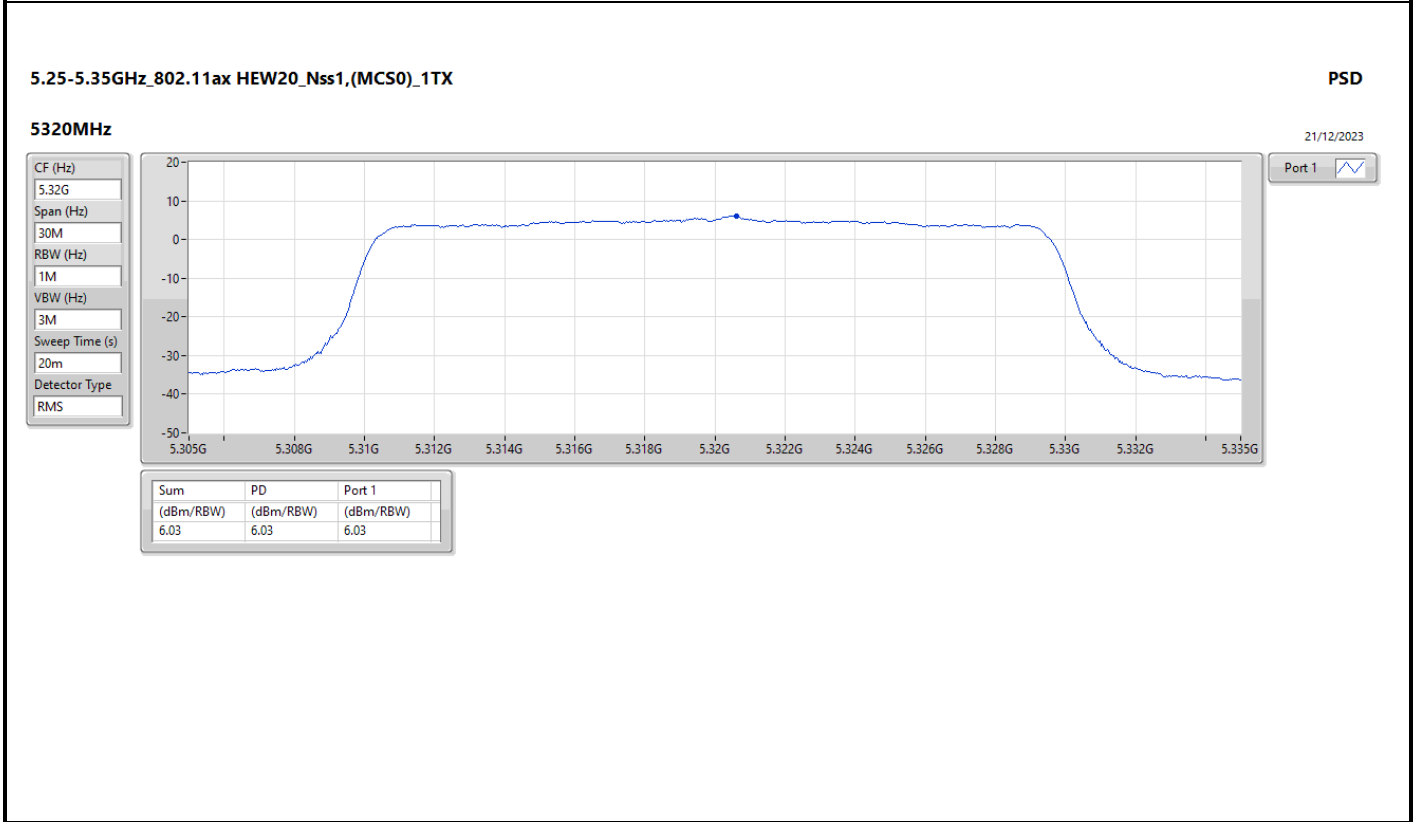
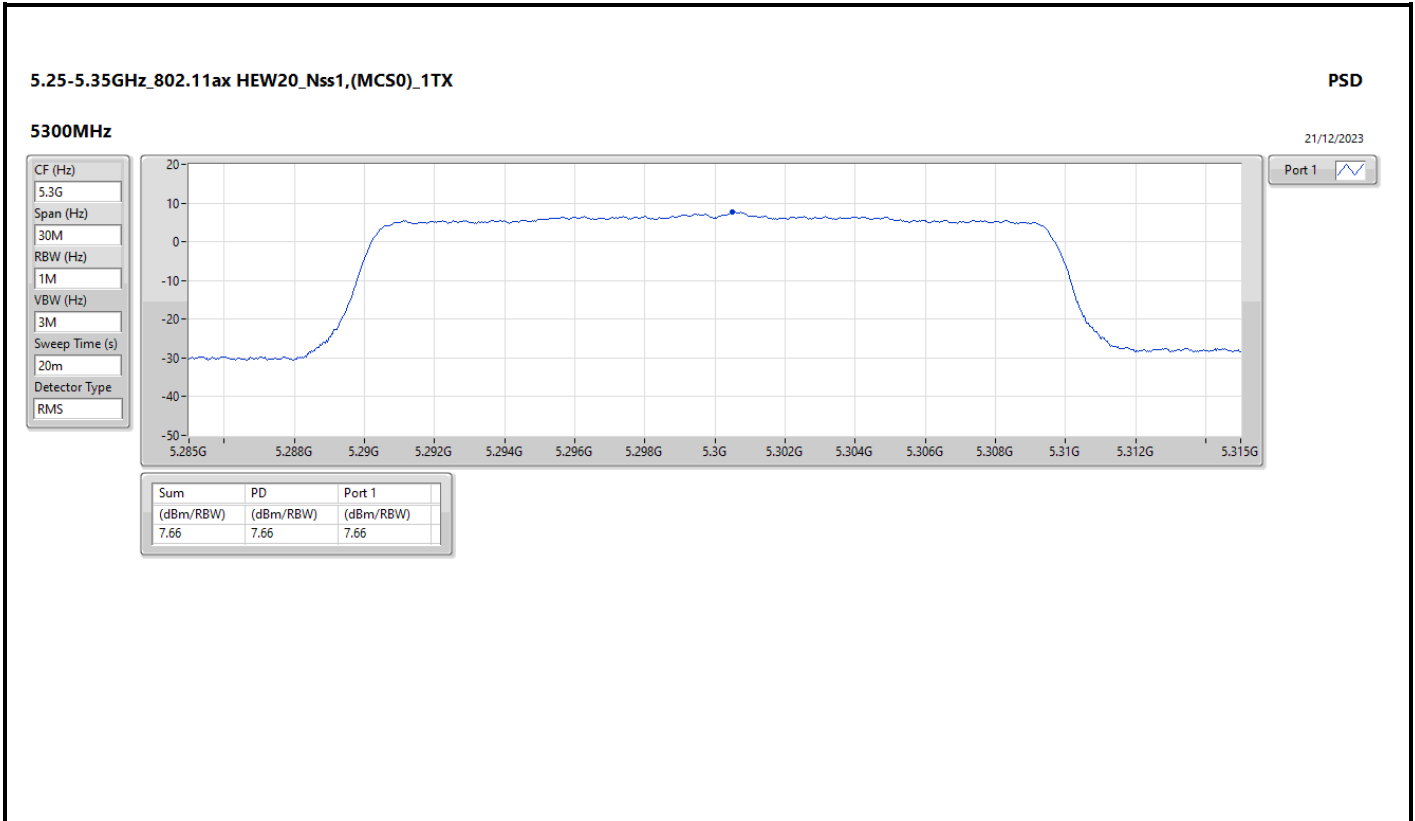


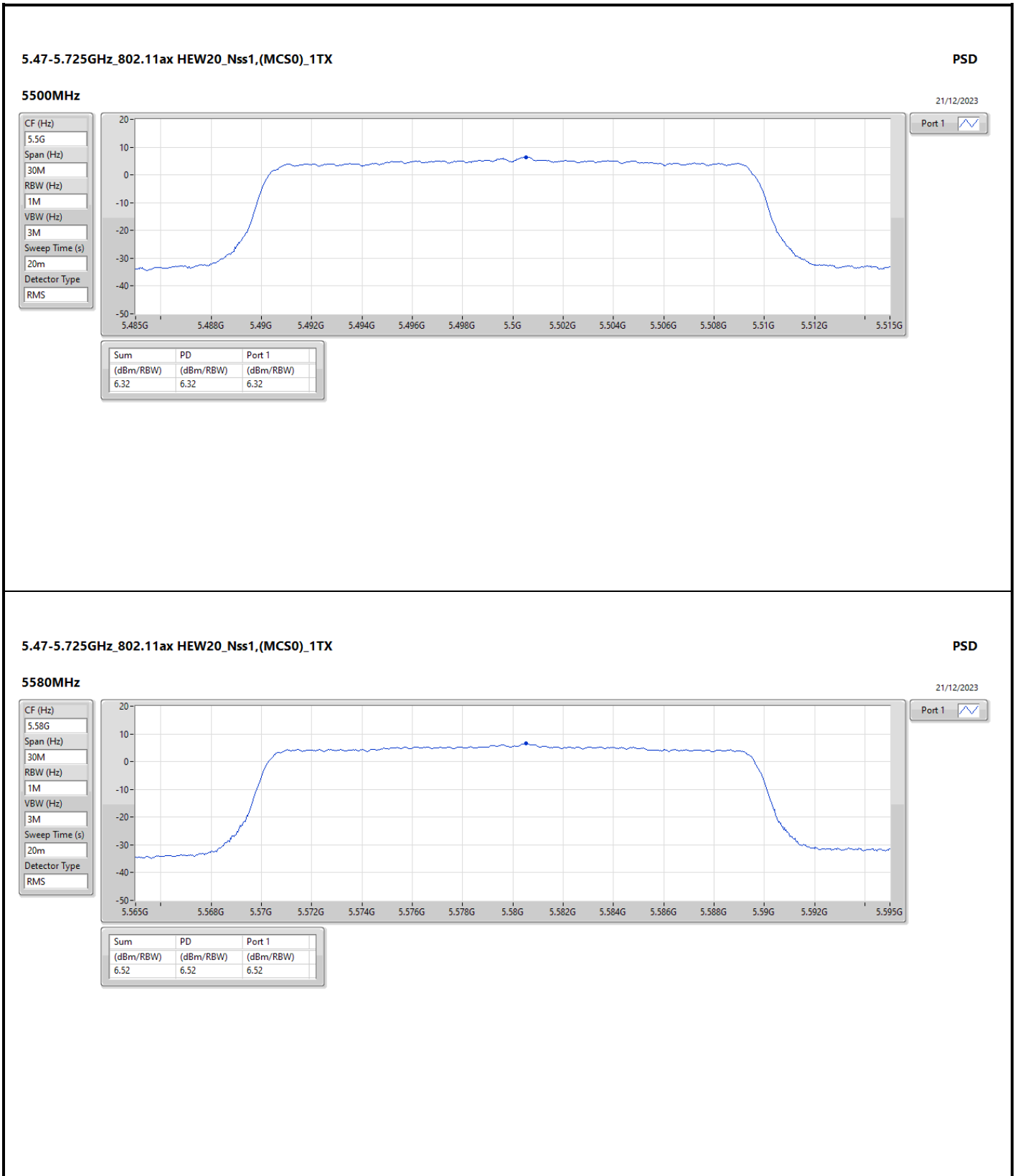


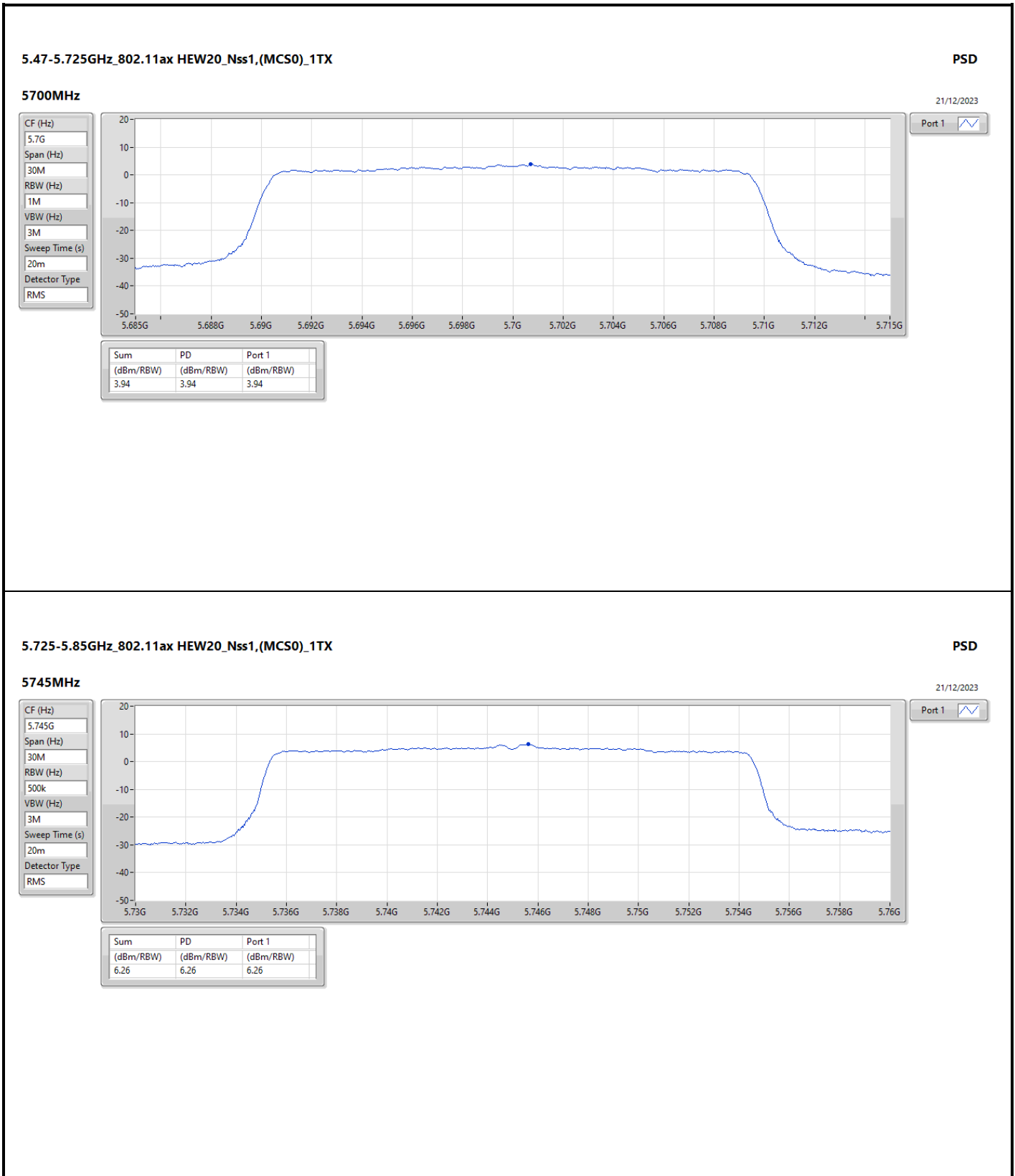


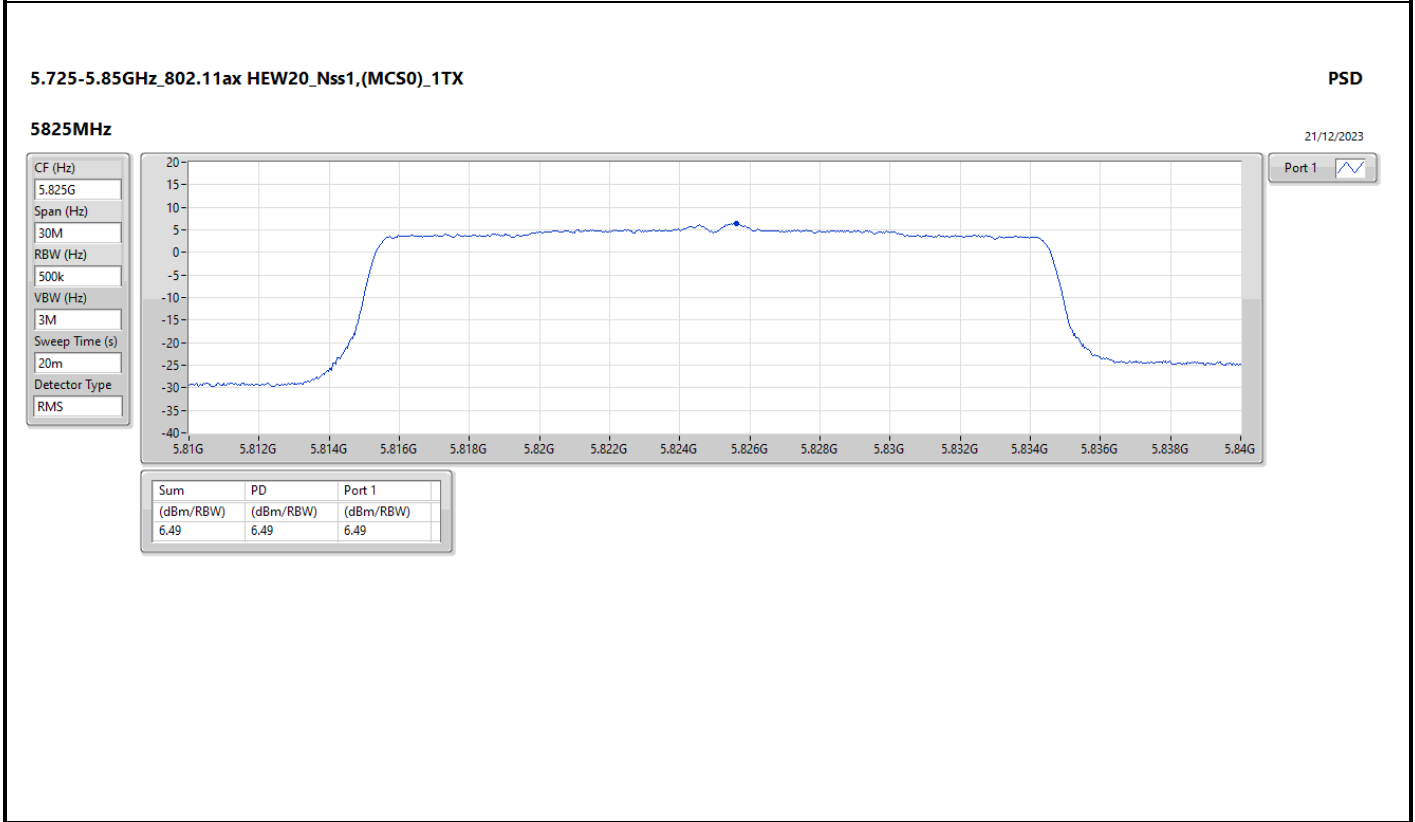
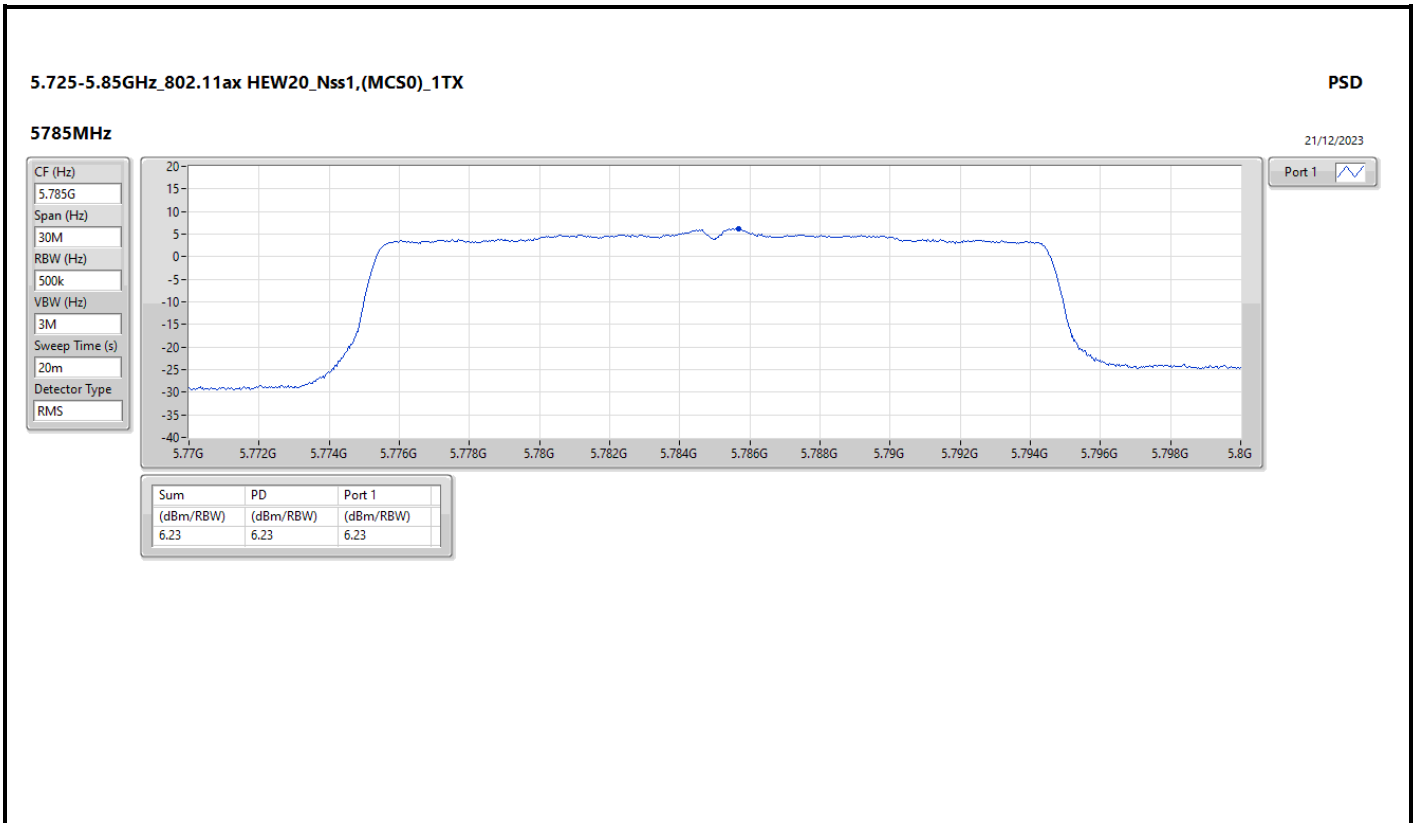


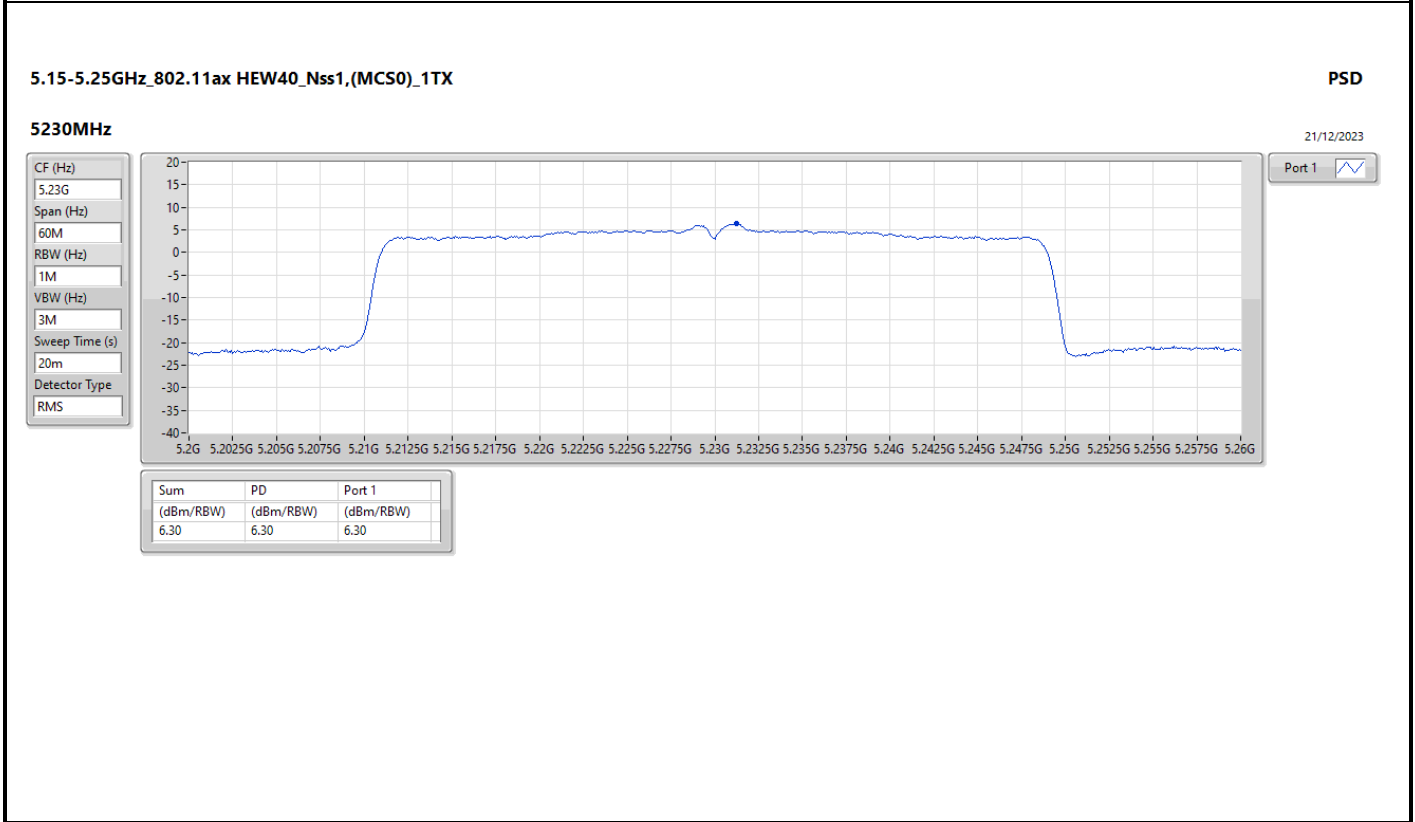
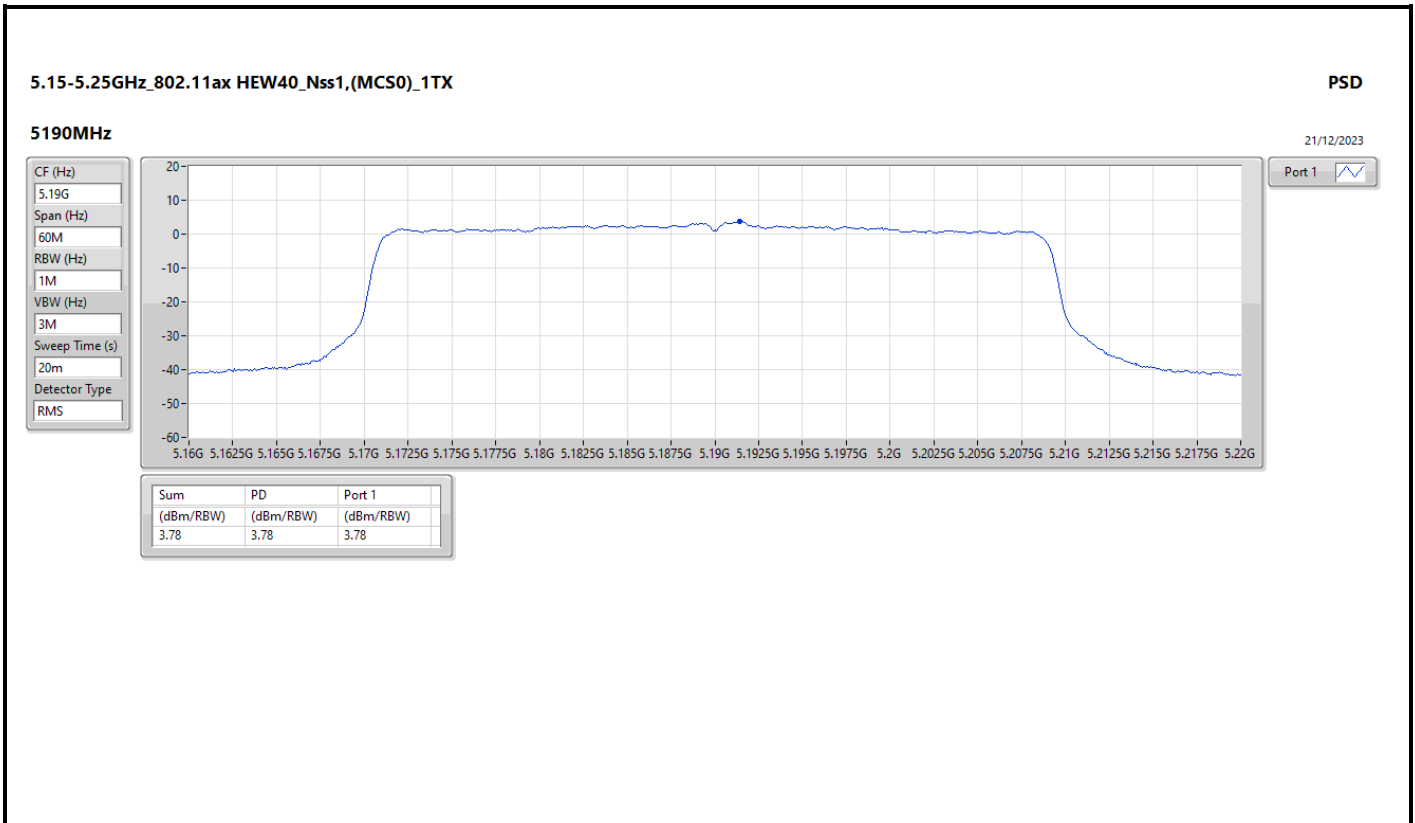


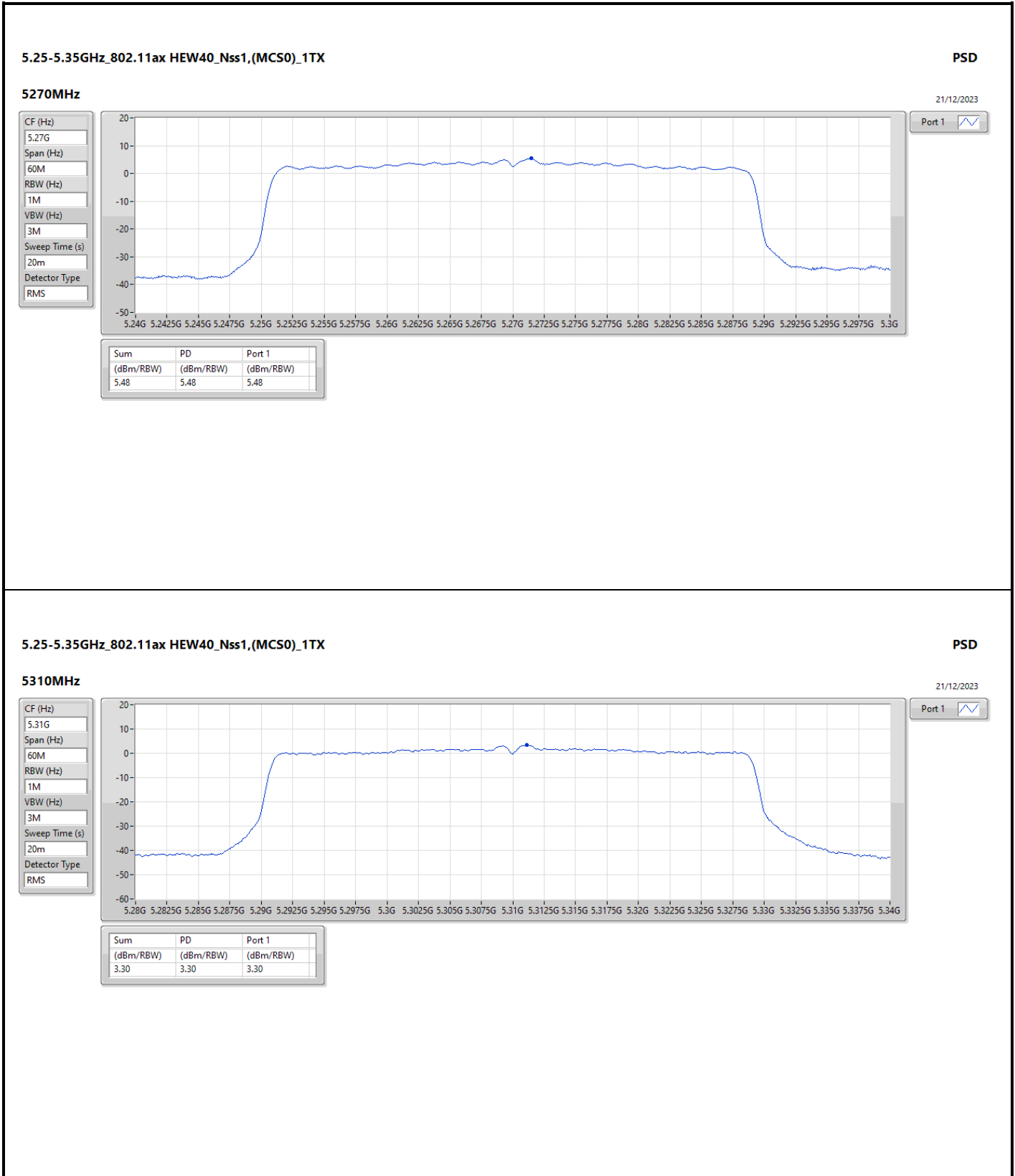


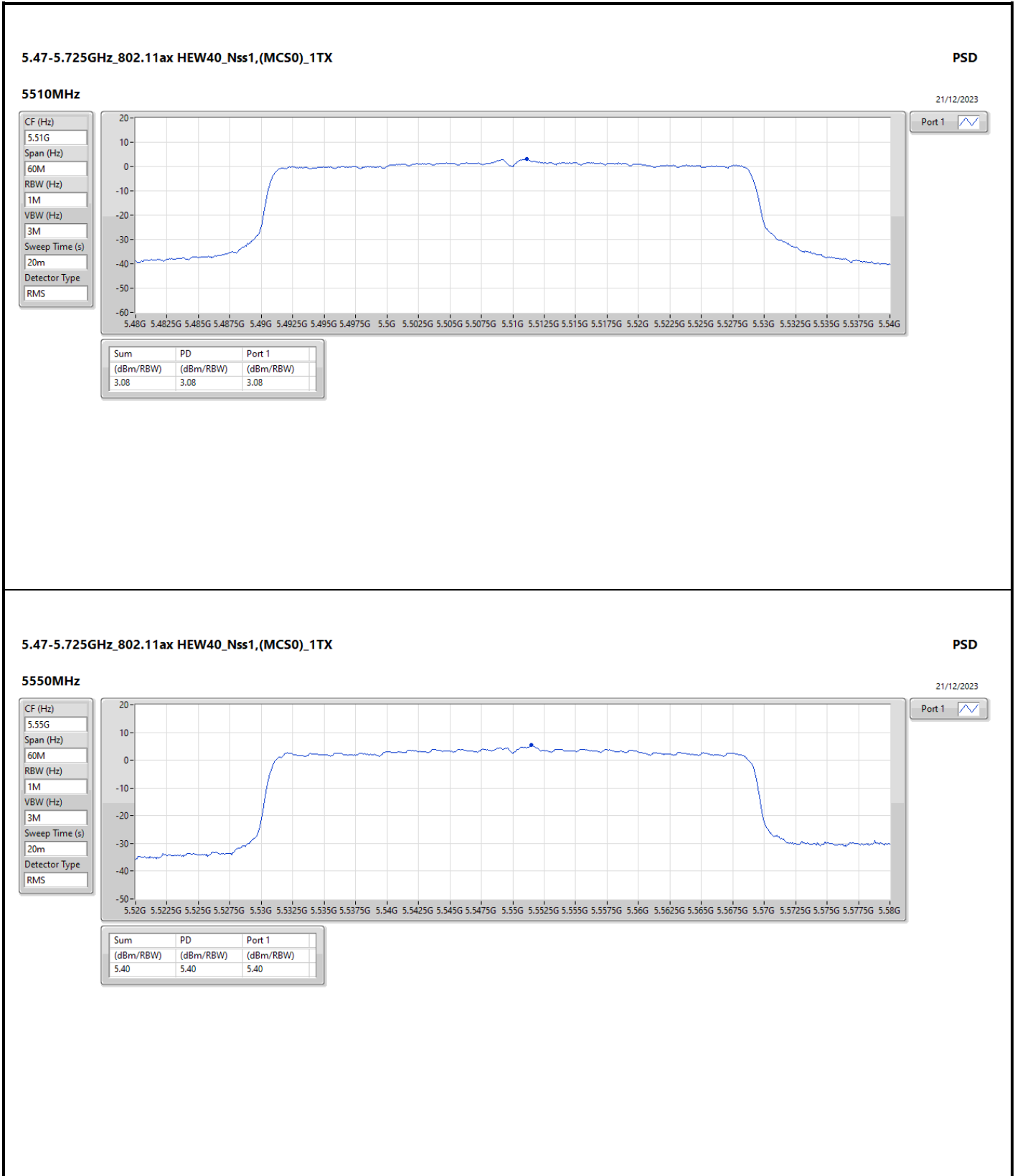


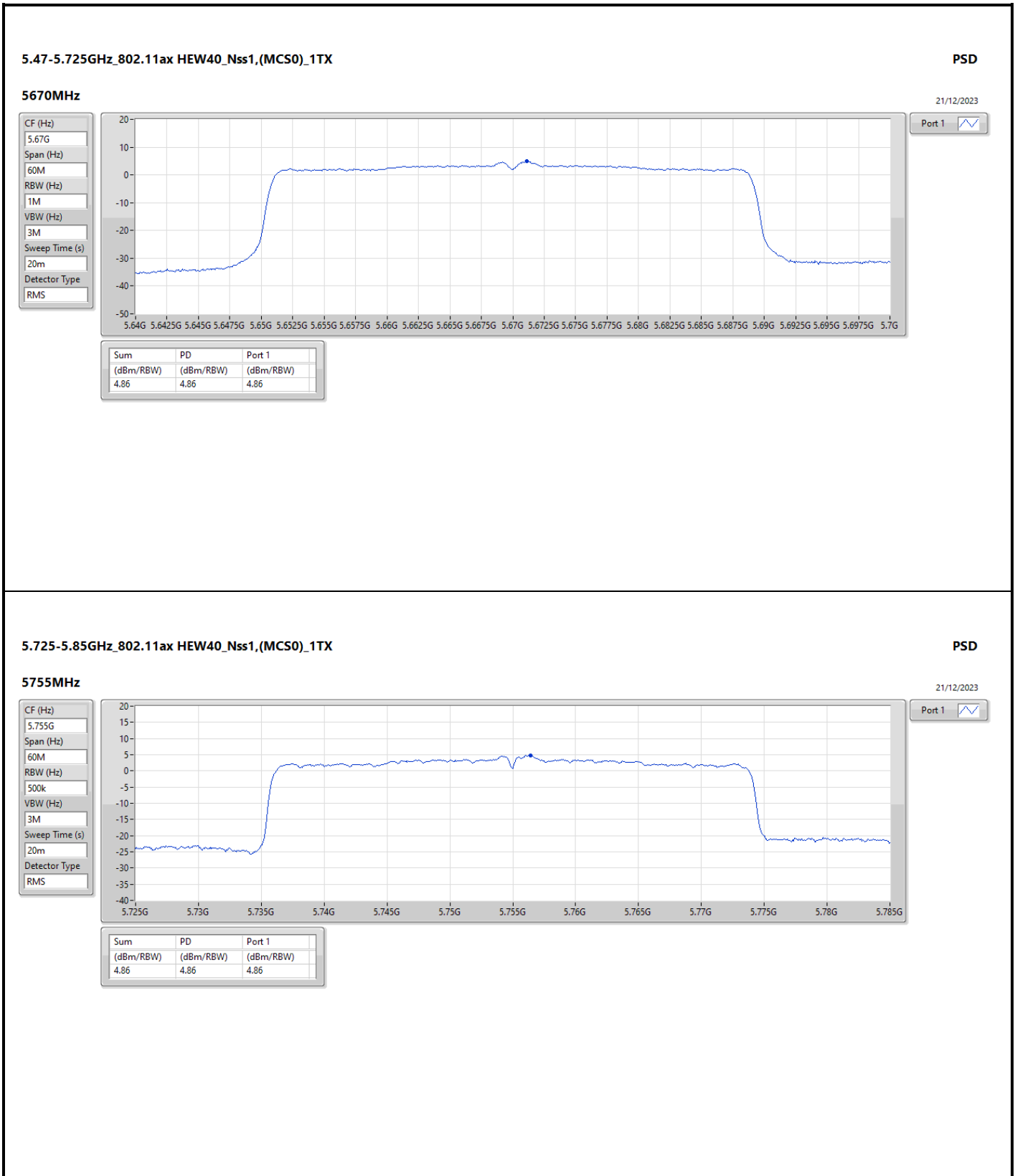


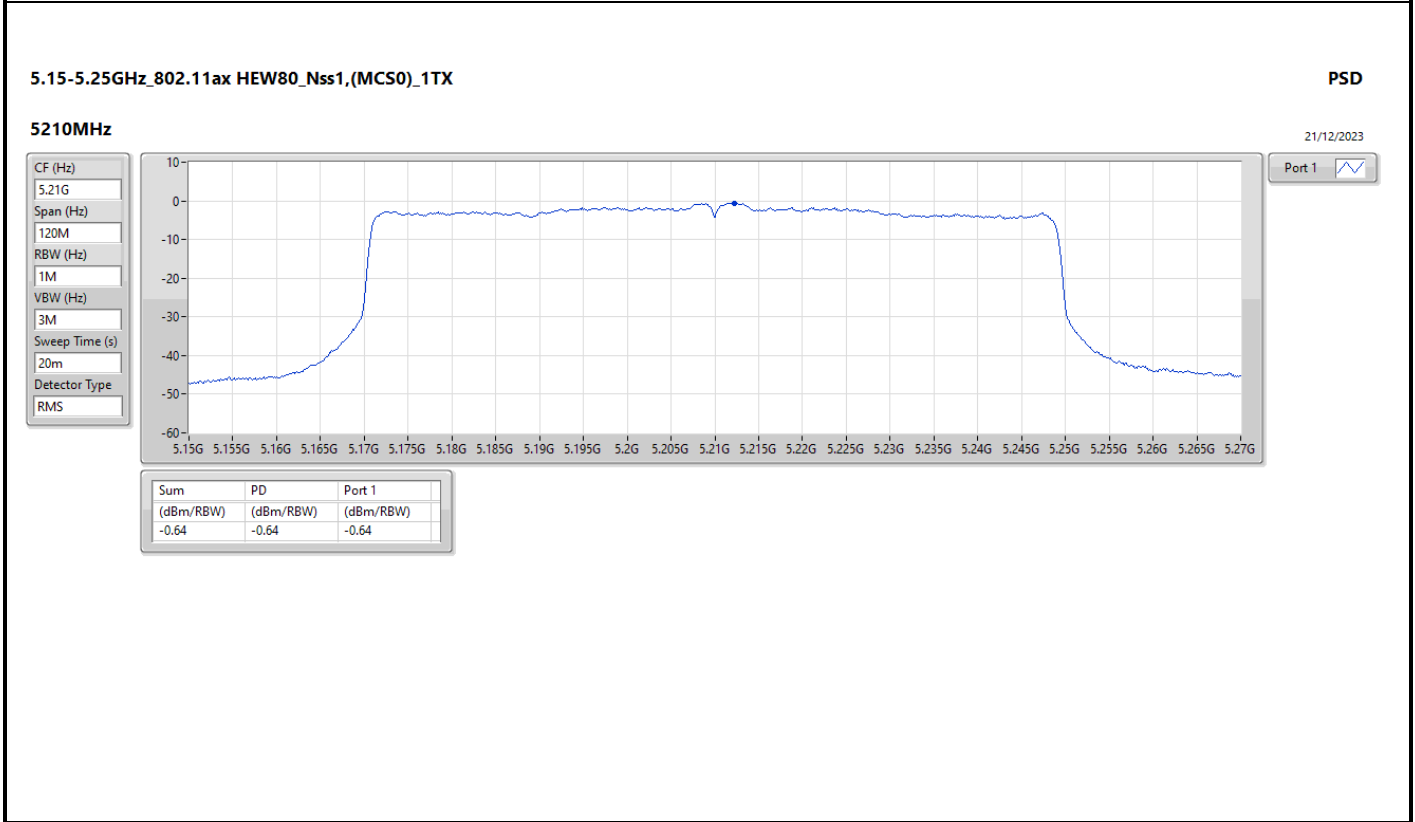
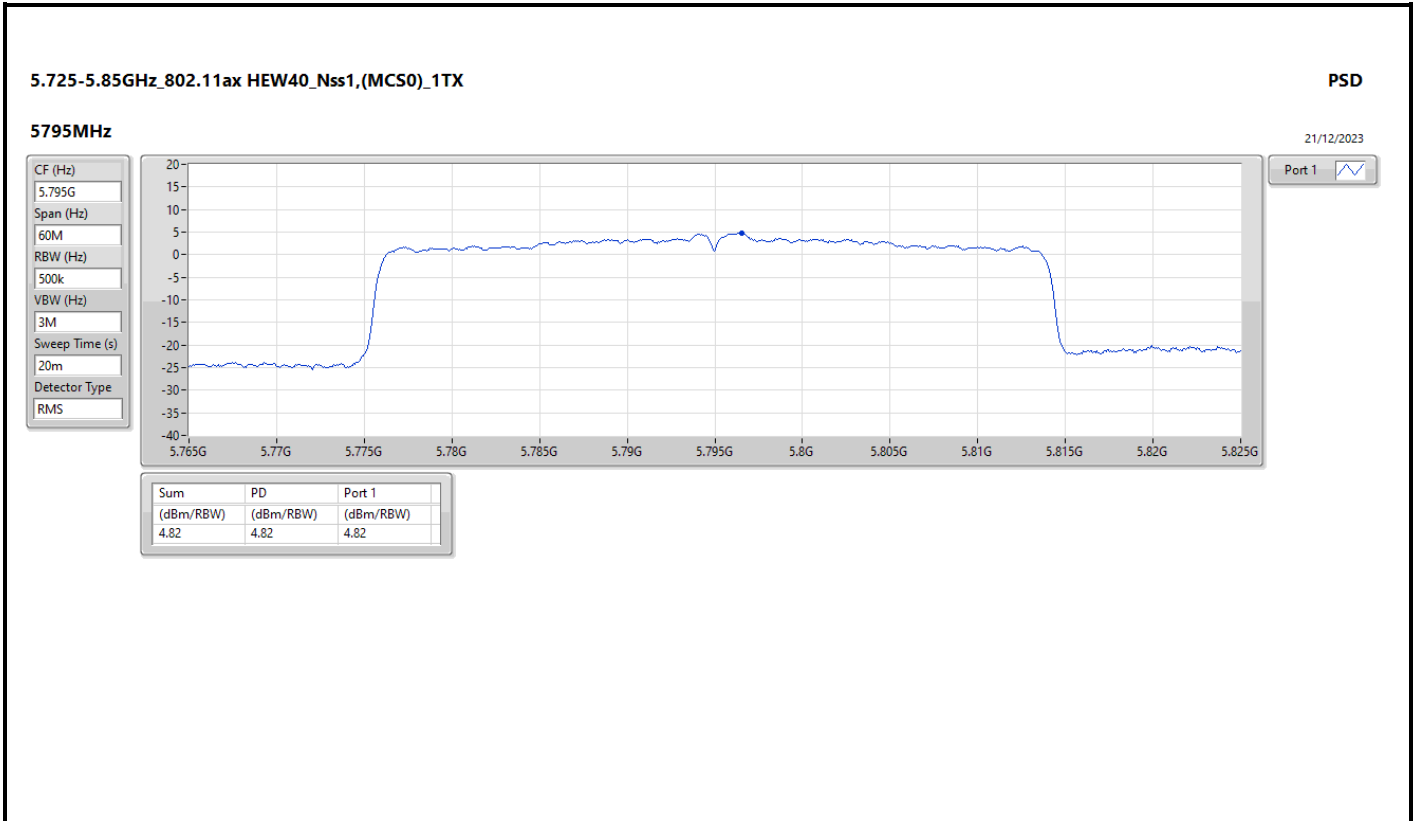


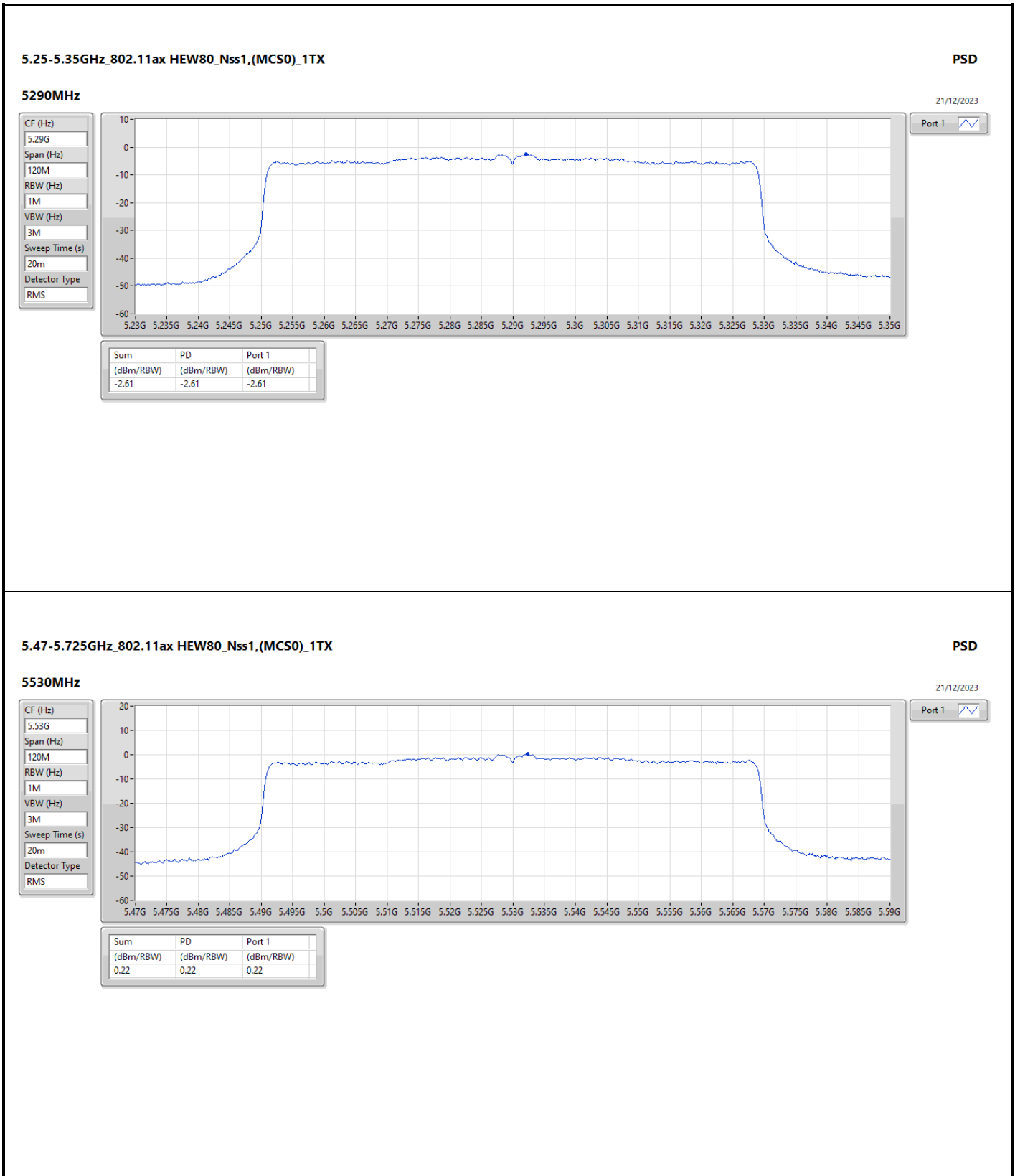












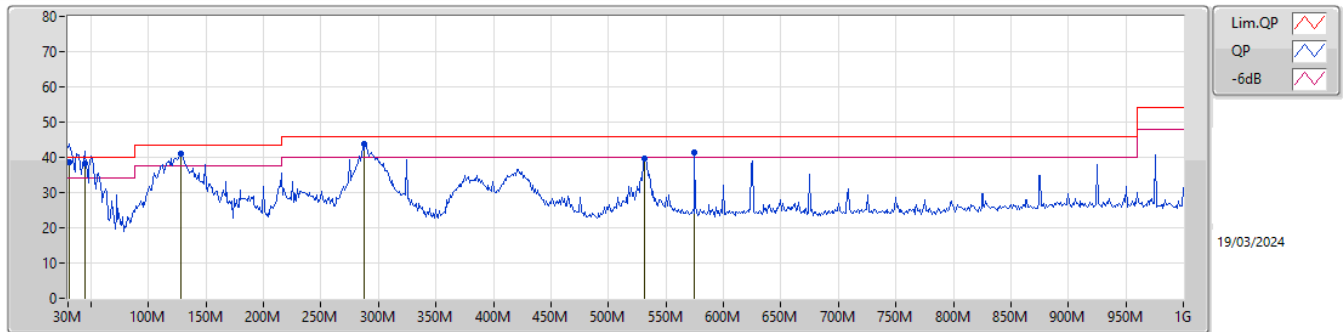




Summary

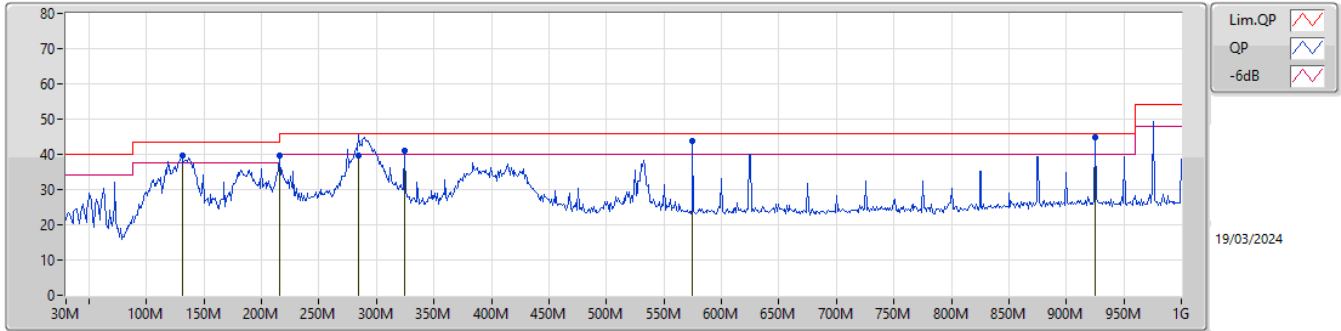
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	925.31M	44.99	46.00	-1.01	Horizontal

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	30.97M	38.68	40.00	-1.32	-7.77	3	Vertical	89	1.50	"Worst"	46.45	23.07	0.34	31.18
QP	44.55M	38.27	40.00	-1.73	-14.85	3	Vertical	236	1.00	-	53.12	16.17	0.45	31.47
PK	127.97M	41.06	43.50	-2.44	-12.19	3	Vertical	107	1.25	-	53.25	18.53	1.00	31.72
PK	288.02M	43.82	46.00	-2.18	-11.29	3	Vertical	129	1.00	-	55.11	18.91	1.63	31.83
PK	531.49M	39.53	46.00	-6.47	-5.90	3	Vertical	207	1.25	-	45.43	23.93	2.27	32.10
PK	575.14M	41.35	46.00	-4.65	-5.23	3	Vertical	216	1.25	-	46.58	24.54	2.38	32.15

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	130.88M	39.68	43.50	-3.82	-12.55	3	Horizontal	316	3.00	-	52.23	18.17	1.02	31.74
PK	215.27M	39.59	43.50	-3.91	-15.58	3	Horizontal	282	1.00	-	55.17	14.89	1.32	31.79
QP	284.14M	39.52	46.00	-6.48	-11.36	3	Horizontal	240	1.00	-	50.88	18.86	1.61	31.83
PK	324.88M	40.95	46.00	-5.05	-10.64	3	Horizontal	250	1.25	-	51.59	19.45	1.73	31.82
PK	575.14M	43.78	46.00	-2.22	-5.23	3	Horizontal	180	2.00	-	49.01	24.54	2.38	32.15
QP	925.31M	44.99	46.00	-1.01	-2.38	3	Horizontal	235	1.00	"Worst"	47.37	26.72	3.14	32.24

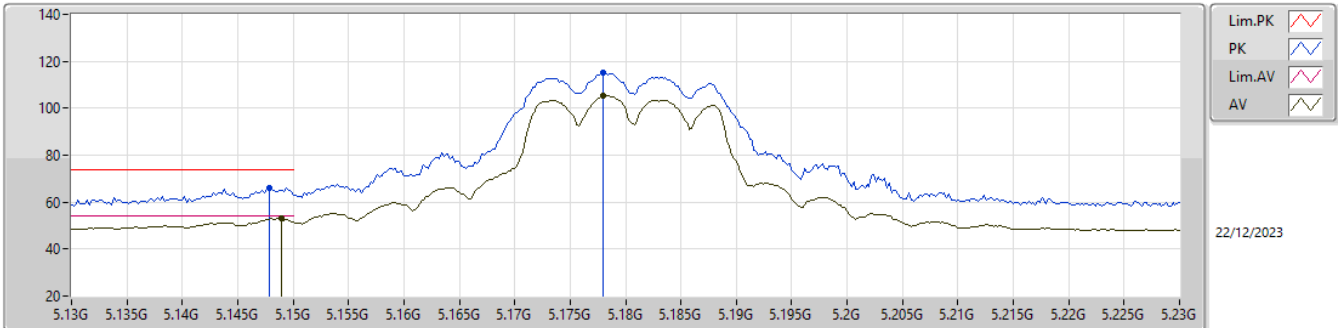


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	5.4582G	52.99	54.00	-1.01	3	Vertical	202	2.91	-

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

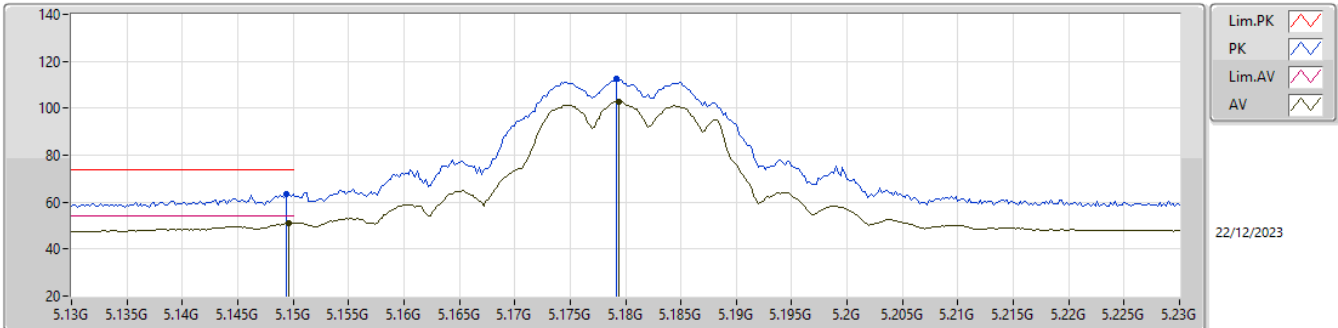


EUT_Z_2TX
Setting 67
02-E-R-7-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1478G	65.87	74.00	-8.13	57.64	3	Vertical	239	2.90	-	33.60	5.31	30.68
AV	5.149G	52.91	54.00	-1.09	44.68	3	Vertical	239	2.90	-	33.60	5.31	30.68
PK	5.178G	115.14	Inf	-Inf	106.78	3	Vertical	239	2.90	-	33.71	5.35	30.70
AV	5.178G	105.56	Inf	-Inf	97.20	3	Vertical	239	2.90	-	33.71	5.35	30.70

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

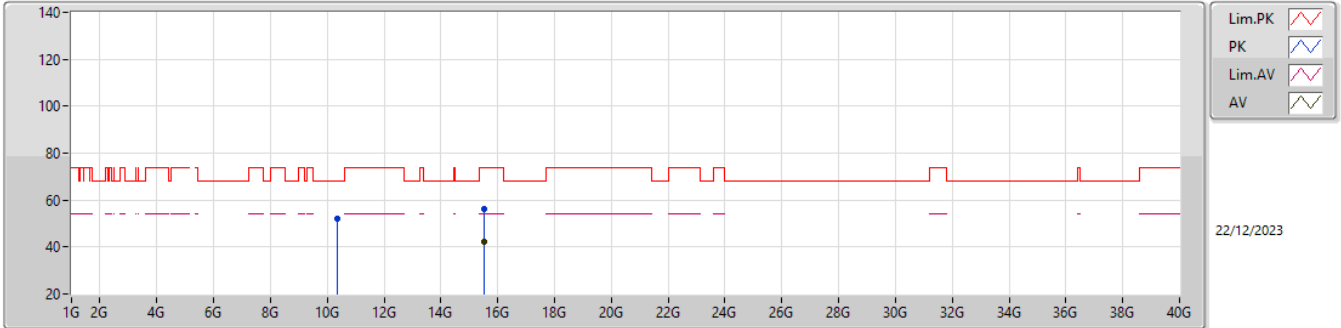


EUT_Z_2TX
 Setting 67
 02-E-R-7-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1494G	63.56	74.00	-10.44	55.33	3	Horizontal	185	2.38	-	33.60	5.31	30.68
AV	5.1496G	51.23	54.00	-2.77	43.00	3	Horizontal	185	2.38	-	33.60	5.31	30.68
PK	5.1792G	112.58	Inf	-Inf	104.21	3	Horizontal	185	2.38	-	33.72	5.35	30.70
AV	5.1794G	102.79	Inf	-Inf	94.42	3	Horizontal	185	2.38	-	33.72	5.35	30.70

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

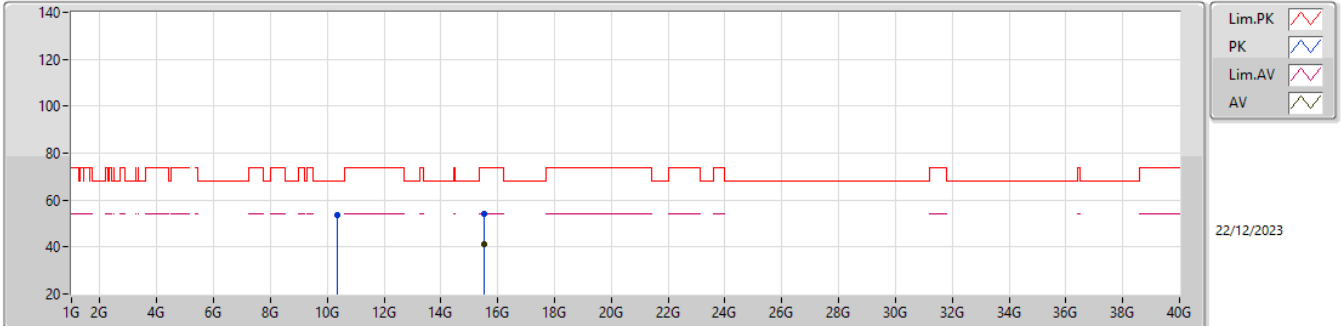


EUT_Y_2TX
Setting 67
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.3597G	52.26	68.20	-15.94	71.37	3	Vertical	243	2.43	-	38.48	8.18	65.77
PK	15.5332G	55.95	74.00	-18.05	70.01	3	Vertical	258	1.80	-	37.87	10.14	62.07
AV	15.5369G	42.44	54.00	-11.56	56.52	3	Vertical	258	1.80	-	37.85	10.14	62.07

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

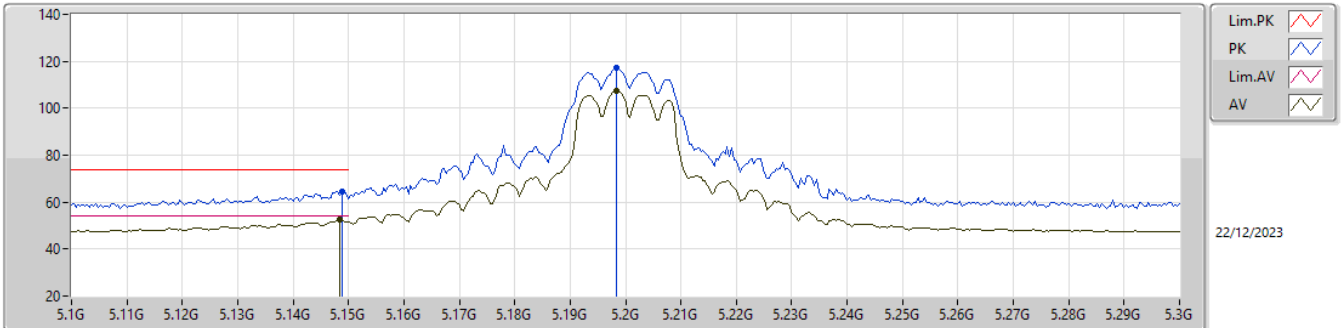


EUT_Y_2TX
Setting 67
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.35508G	53.75	68.20	-14.45	72.87	3	Horizontal	360	1.80	-	38.49	8.18	65.79
PK	15.53538G	54.33	74.00	-19.67	68.40	3	Horizontal	234	1.80	-	37.86	10.14	62.07
AV	15.53328G	41.30	54.00	-12.70	55.36	3	Horizontal	234	1.80	-	37.87	10.14	62.07

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

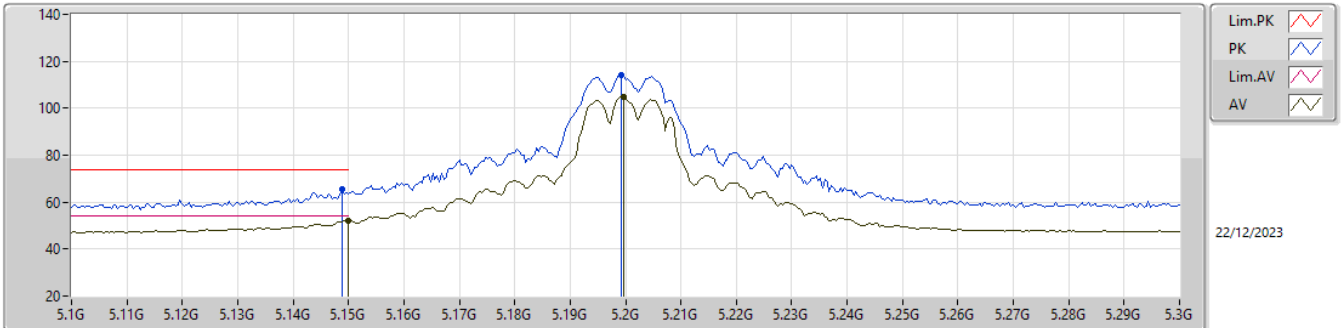


EUT_Z_2TX
Setting 75
02-E-R-7-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1488G	64.49	74.00	-9.51	56.26	3	Vertical	238	2.88	-	33.60	5.31	30.68
AV	5.1484G	52.60	54.00	-1.40	44.37	3	Vertical	238	2.88	-	33.60	5.31	30.68
PK	5.1984G	117.08	Inf	-Inf	108.64	3	Vertical	238	2.88	-	33.79	5.37	30.72
AV	5.1984G	107.63	Inf	-Inf	99.19	3	Vertical	238	2.88	-	33.79	5.37	30.72

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

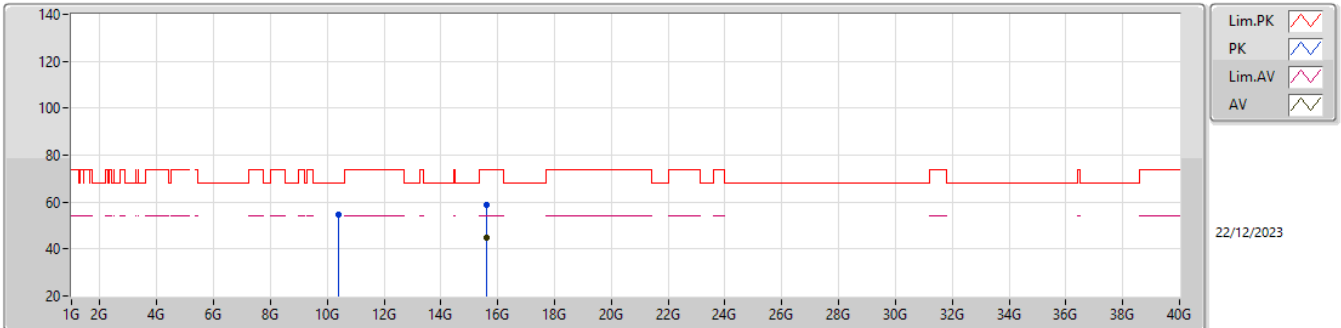


EUT_Z_2TX
Setting 75
02-E-R-7-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1488G	65.43	74.00	-8.57	57.20	3	Horizontal	182	2.62	-	33.60	5.31	30.68
AV	5.15G	52.18	54.00	-1.82	43.94	3	Horizontal	182	2.62	-	33.60	5.32	30.68
PK	5.1992G	114.15	Inf	-Inf	105.70	3	Horizontal	182	2.62	-	33.80	5.37	30.72
AV	5.1996G	104.87	Inf	-Inf	96.42	3	Horizontal	182	2.62	-	33.80	5.37	30.72

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

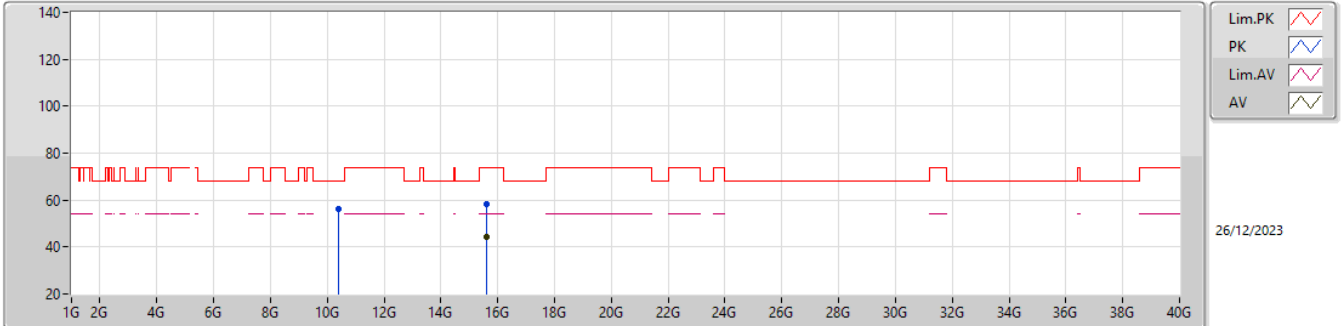


EUT_Y_2TX
Setting 75
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.40348G	54.54	68.20	-13.66	73.59	3	Vertical	236	2.01	-	38.40	8.20	65.65
PK	15.60204G	58.75	74.00	-15.25	73.00	3	Vertical	125	1.78	-	37.70	10.16	62.11
AV	15.59766G	44.72	54.00	-9.28	58.96	3	Vertical	125	1.78	-	37.70	10.16	62.10

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

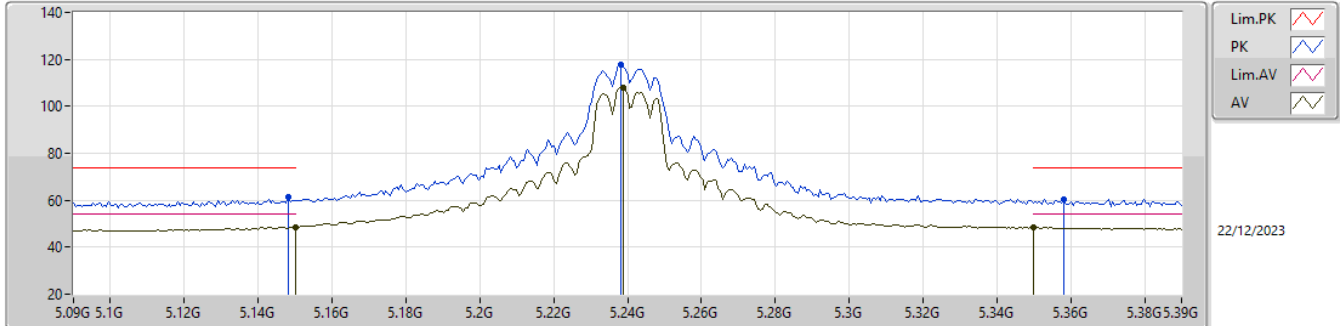


EUT_Y_2TX
Setting 75
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.40072G	56.07	68.20	-12.13	75.13	3	Horizontal	23	1.80	-	38.40	8.20	65.66
PK	15.5988G	58.45	74.00	-15.55	72.69	3	Horizontal	0	1.80	-	37.70	10.16	62.10
AV	15.59862G	44.44	54.00	-9.56	58.68	3	Horizontal	0	1.80	-	37.70	10.16	62.10

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

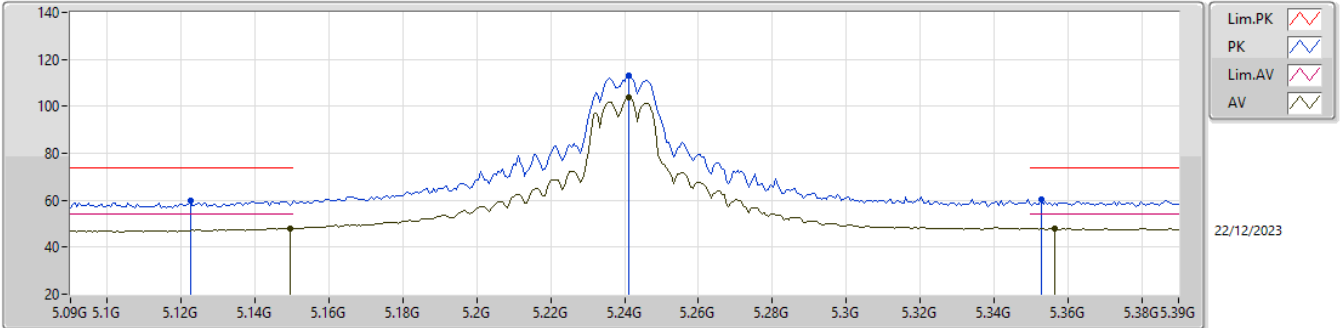


EUT_Z_2TX
Setting 84
02-E-R-7-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1482G	61.26	74.00	-12.74	53.03	3	Vertical	238	3.00	-	33.60	5.31	30.68
AV	5.15G	48.54	54.00	-5.46	40.30	3	Vertical	238	3.00	-	33.60	5.32	30.68
PK	5.2382G	117.73	Inf	-Inf	109.30	3	Vertical	238	3.00	-	33.80	5.38	30.75
AV	5.2388G	107.91	Inf	-Inf	99.48	3	Vertical	238	3.00	-	33.80	5.38	30.75
PK	5.3582G	60.13	74.00	-13.87	51.58	3	Vertical	238	3.00	-	34.00	5.40	30.85
AV	5.35G	48.54	54.00	-5.46	39.98	3	Vertical	238	3.00	-	34.00	5.40	30.84

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

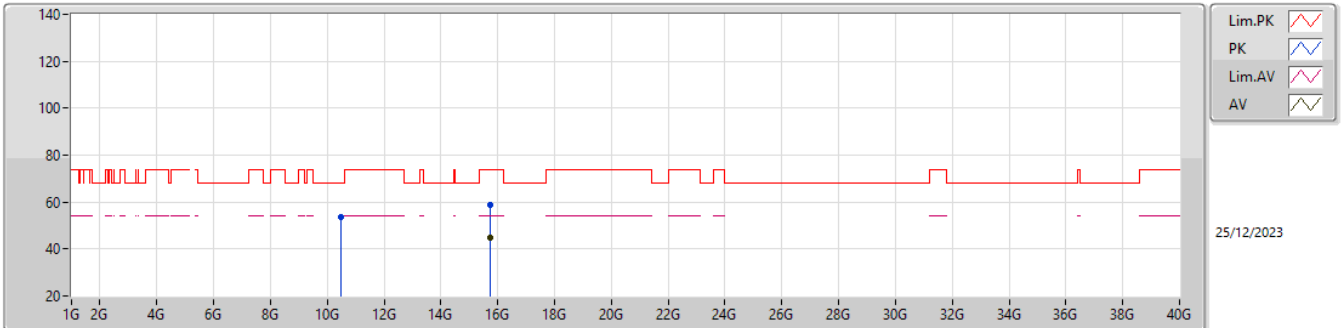


EUT_Z_2TX
Setting 84
02-E-R-7-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1224G	59.59	74.00	-14.41	51.43	3	Horizontal	152	2.24	-	33.54	5.28	30.66
AV	5.1494G	48.15	54.00	-5.85	39.92	3	Horizontal	152	2.24	-	33.60	5.31	30.68
PK	5.2412G	113.19	Inf	-Inf	104.76	3	Horizontal	152	2.24	-	33.80	5.38	30.75
AV	5.2412G	103.98	Inf	-Inf	95.55	3	Horizontal	152	2.24	-	33.80	5.38	30.75
PK	5.3528G	60.34	74.00	-13.66	51.78	3	Horizontal	152	2.24	-	34.00	5.40	30.84
AV	5.3564G	47.91	54.00	-6.09	39.36	3	Horizontal	152	2.24	-	34.00	5.40	30.85

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

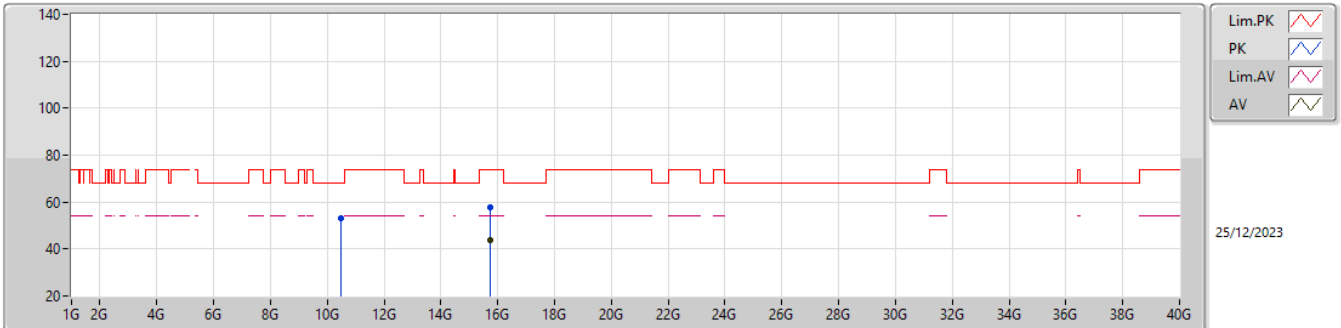


EUT_Y_2TX
Setting 84
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.47754G	53.47	68.20	-14.73	72.30	3	Vertical	220	2.35	-	38.40	8.22	65.45
PK	15.7212G	58.61	74.00	-15.39	72.87	3	Vertical	240	1.80	-	37.72	10.19	62.17
AV	15.72162G	44.71	54.00	-9.29	58.97	3	Vertical	240	1.80	-	37.71	10.20	62.17

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

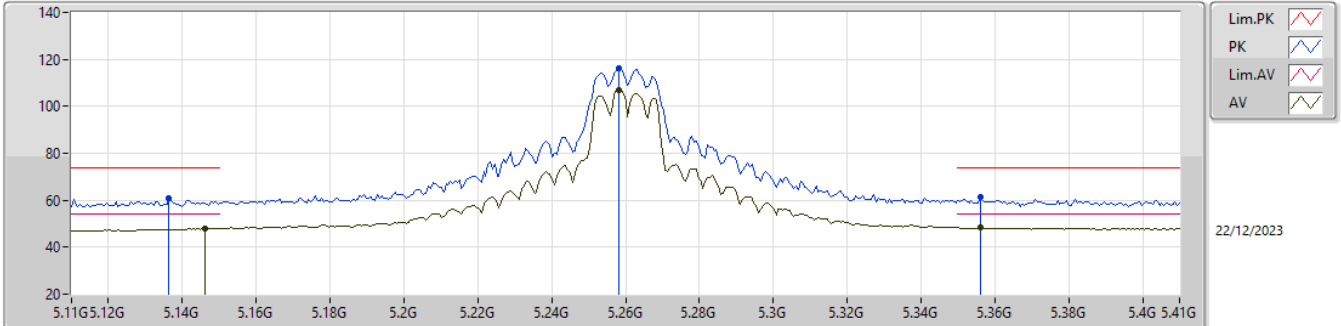


EUT_Y_2TX
Setting 84
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.4776G	53.21	68.20	-14.99	72.04	3	Horizontal	89	1.27	-	38.40	8.22	65.45
PK	15.71862G	57.64	74.00	-16.36	71.89	3	Horizontal	3	1.80	-	37.73	10.19	62.17
AV	15.72276G	43.67	54.00	-10.33	57.93	3	Horizontal	3	1.80	-	37.71	10.20	62.17

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5260MHz_TX

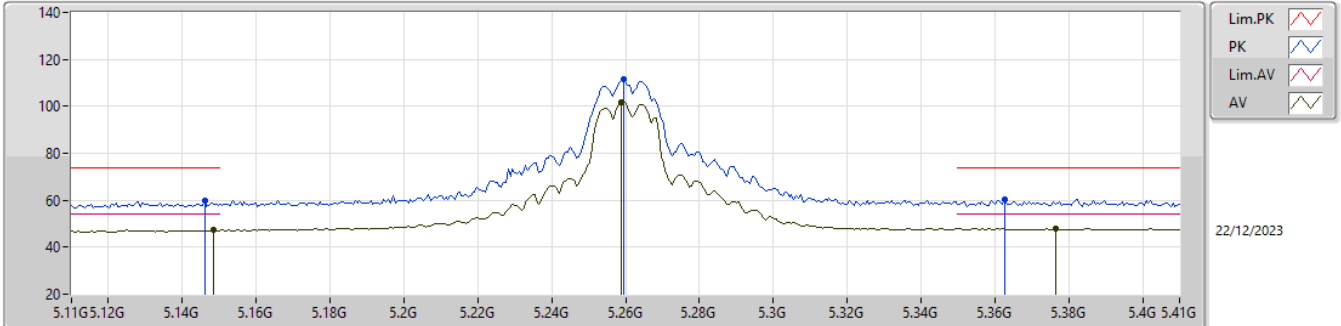


EUT_Z_2TX
Setting 84
02-E-R-7-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1364G	60.88	74.00	-13.12	52.68	3	Vertical	239	2.96	-	33.57	5.30	30.67
AV	5.146G	48.06	54.00	-5.94	39.84	3	Vertical	239	2.96	-	33.59	5.31	30.68
PK	5.2582G	116.26	Inf	-Inf	107.83	3	Vertical	239	2.96	-	33.82	5.38	30.77
AV	5.2582G	106.89	Inf	-Inf	98.46	3	Vertical	239	2.96	-	33.82	5.38	30.77
PK	5.356G	61.16	74.00	-12.84	52.60	3	Vertical	239	2.96	-	34.00	5.40	30.84
AV	5.356G	48.29	54.00	-5.71	39.73	3	Vertical	239	2.96	-	34.00	5.40	30.84

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5260MHz_TX

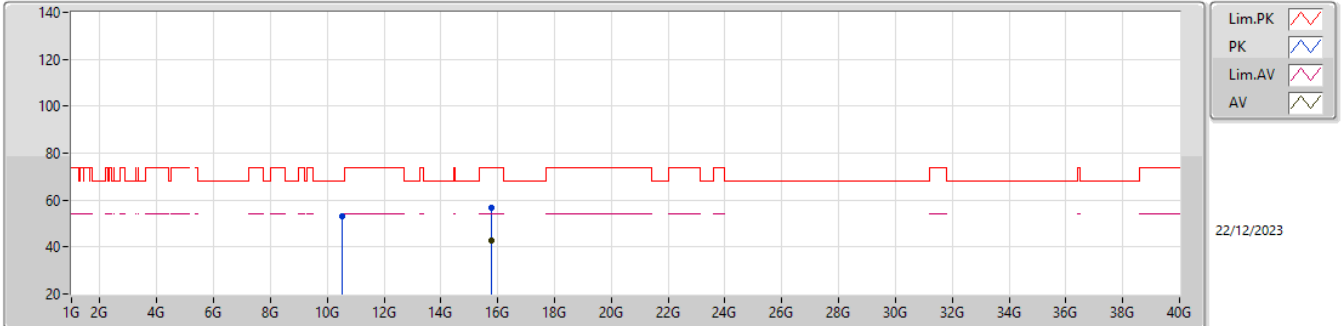


EUT_Z_2TX
Setting 84
02-E-R-7-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.146G	59.70	74.00	-14.30	51.48	3	Horizontal	338	2.92	-	33.59	5.31	30.68
AV	5.1484G	47.25	54.00	-6.75	39.02	3	Horizontal	338	2.92	-	33.60	5.31	30.68
PK	5.2594G	111.70	Inf	-Inf	103.27	3	Horizontal	338	2.92	-	33.82	5.38	30.77
AV	5.2588G	101.91	Inf	-Inf	93.48	3	Horizontal	338	2.92	-	33.82	5.38	30.77
PK	5.3626G	60.40	74.00	-13.60	51.85	3	Horizontal	338	2.92	-	34.00	5.40	30.85
AV	5.3764G	47.97	54.00	-6.03	39.42	3	Horizontal	338	2.92	-	34.00	5.41	30.86

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5260MHz_TX

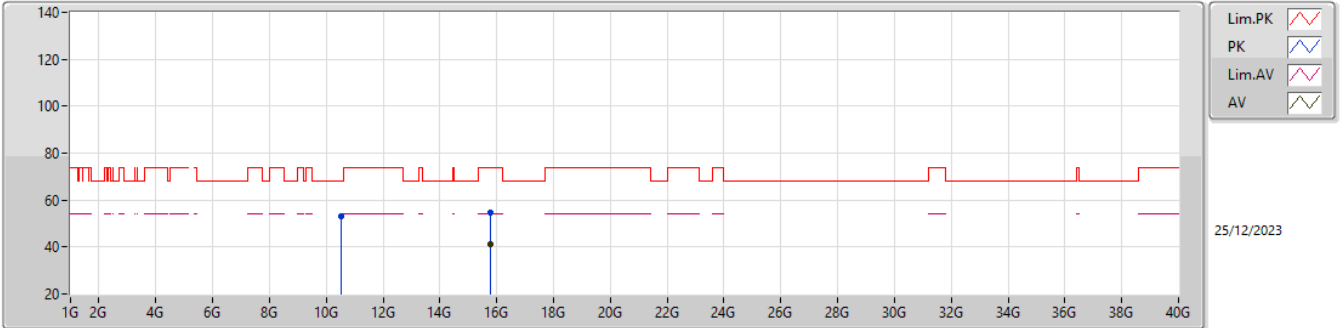


EUT_Y_2TX
Setting 84
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.52312G	53.02	68.20	-15.18	71.79	3	Vertical	220	2.00	-	38.40	8.24	65.41
PK	15.78048G	56.92	74.00	-17.08	71.43	3	Vertical	241	1.84	-	37.48	10.21	62.20
AV	15.77574G	42.64	54.00	-11.36	57.13	3	Vertical	241	1.84	-	37.50	10.21	62.20

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5260MHz_TX

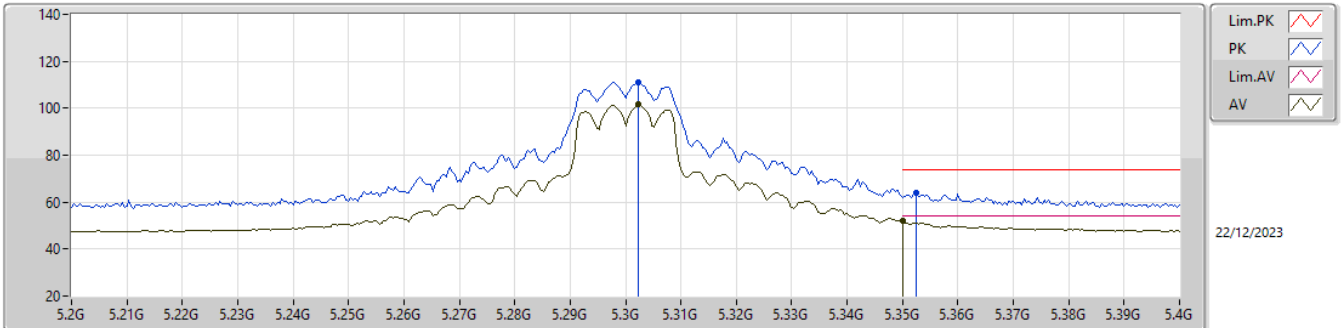


EUT_Y_2TX
Setting 84
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.52504G	53.03	68.20	-15.17	71.81	3	Horizontal	26	1.79	-	38.40	8.24	65.42
PK	15.78024G	54.70	74.00	-19.30	69.21	3	Horizontal	0	1.80	-	37.48	10.21	62.20
AV	15.7824G	41.42	54.00	-12.58	55.94	3	Horizontal	0	1.80	-	37.47	10.21	62.20

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5300MHz_TX

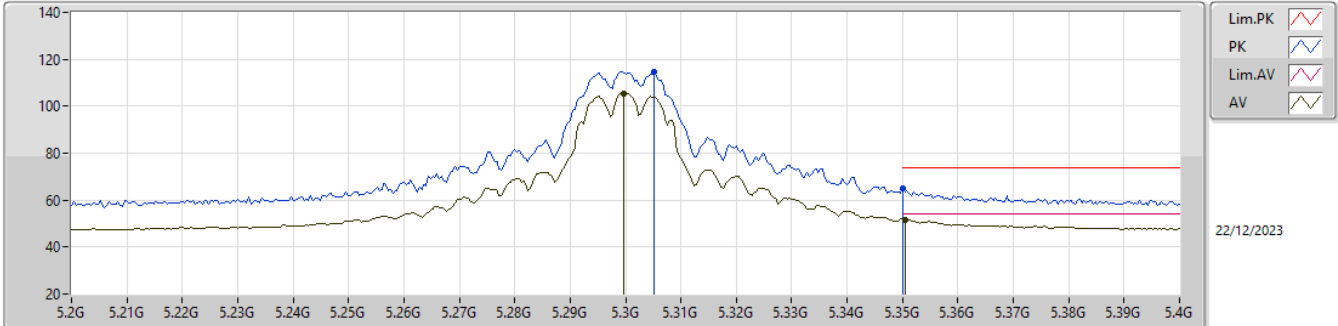


EUT_Z_2TX
Setting 79
02-E-R-7-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.3024G	111.28	Inf	-Inf	102.79	3	Vertical	174	1.38	-	33.90	5.39	30.80
AV	5.3024G	101.65	Inf	-Inf	93.16	3	Vertical	174	1.38	-	33.90	5.39	30.80
PK	5.3524G	64.21	74.00	-9.79	55.65	3	Vertical	174	1.38	-	34.00	5.40	30.84
AV	5.35G	52.22	54.00	-1.78	43.66	3	Vertical	174	1.38	-	34.00	5.40	30.84

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5300MHz_TX

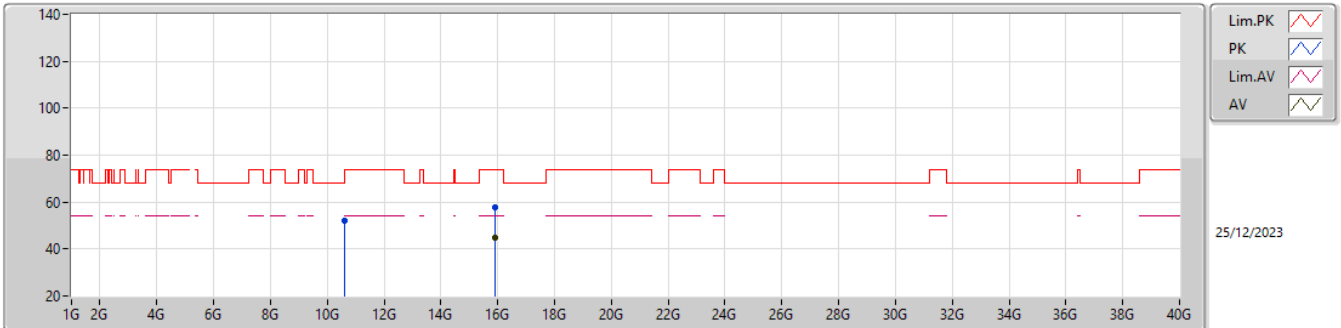


EUT_Z_2TX
Setting 79
02-E-R-7-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.3052G	114.56	Inf	-Inf	106.06	3	Horizontal	182	2.41	-	33.91	5.39	30.80
AV	5.2996G	105.54	Inf	-Inf	97.05	3	Horizontal	182	2.41	-	33.90	5.39	30.80
PK	5.35G	64.79	74.00	-9.21	56.23	3	Horizontal	182	2.41	-	34.00	5.40	30.84
AV	5.3504G	51.80	54.00	-2.20	43.24	3	Horizontal	182	2.41	-	34.00	5.40	30.84

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5300MHz_TX

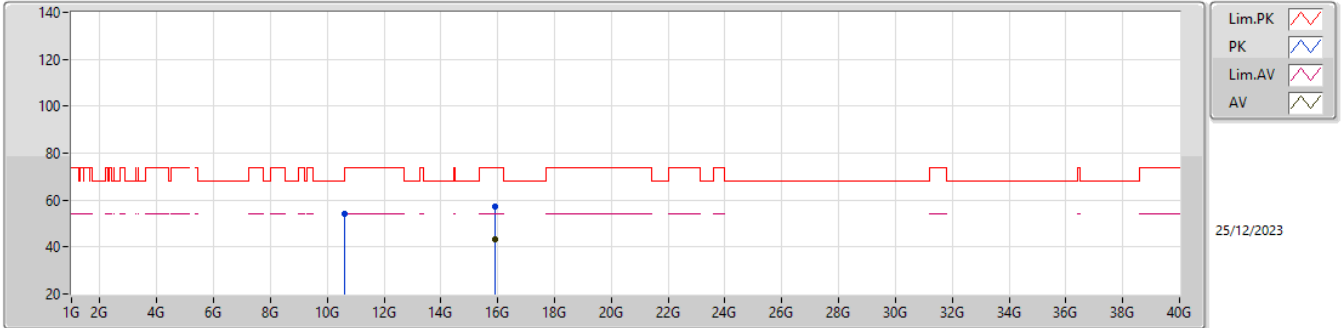


EUT_Y_2TX
Setting 79
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.59724G	51.89	68.20	-16.31	70.72	3	Vertical	311	1.04	-	38.40	8.26	65.49
PK	15.90744G	57.78	74.00	-16.22	72.49	3	Vertical	233	1.82	-	37.31	10.25	62.27
AV	15.90264G	44.66	54.00	-9.34	59.37	3	Vertical	233	1.82	-	37.31	10.25	62.27

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5300MHz_TX

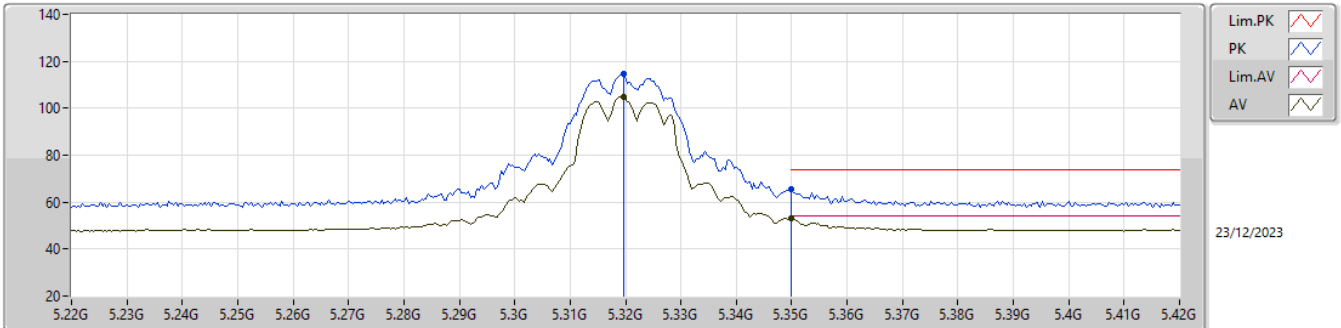


EUT_Y_2TX
Setting 79
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.59538G	54.01	68.20	-14.19	72.84	3	Horizontal	14	2.21	-	38.40	8.26	65.49
PK	15.90324G	57.10	74.00	-16.90	71.81	3	Horizontal	360	1.84	-	37.31	10.25	62.27
AV	15.89862G	43.41	54.00	-10.59	58.13	3	Horizontal	360	1.84	-	37.30	10.25	62.27

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX

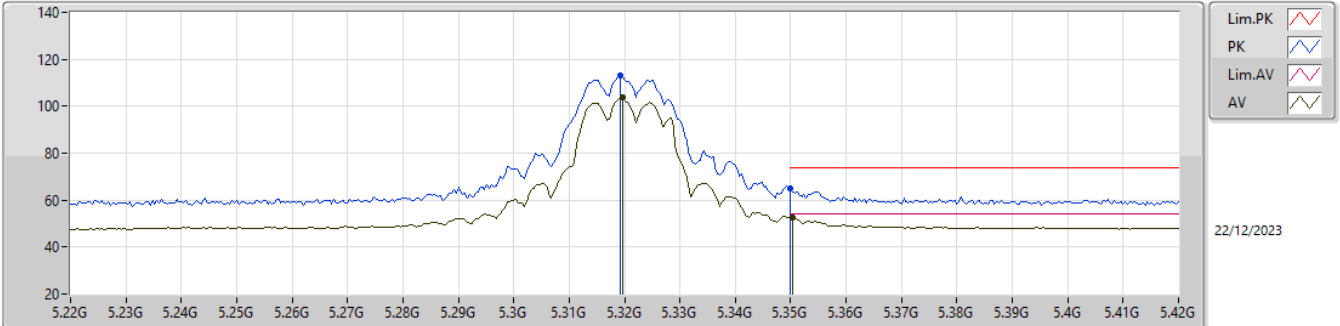


EUT_Z_2TX
 Setting 66
 02-E-N-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.3196G	114.64	Inf	-Inf	106.13	3	Vertical	209	2.73	-	33.94	5.39	30.82
AV	5.3196G	104.76	Inf	-Inf	96.25	3	Vertical	209	2.73	-	33.94	5.39	30.82
PK	5.35G	65.29	74.00	-8.71	56.73	3	Vertical	209	2.73	-	34.00	5.40	30.84
AV	5.35G	52.86	54.00	-1.14	44.30	3	Vertical	209	2.73	-	34.00	5.40	30.84

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX

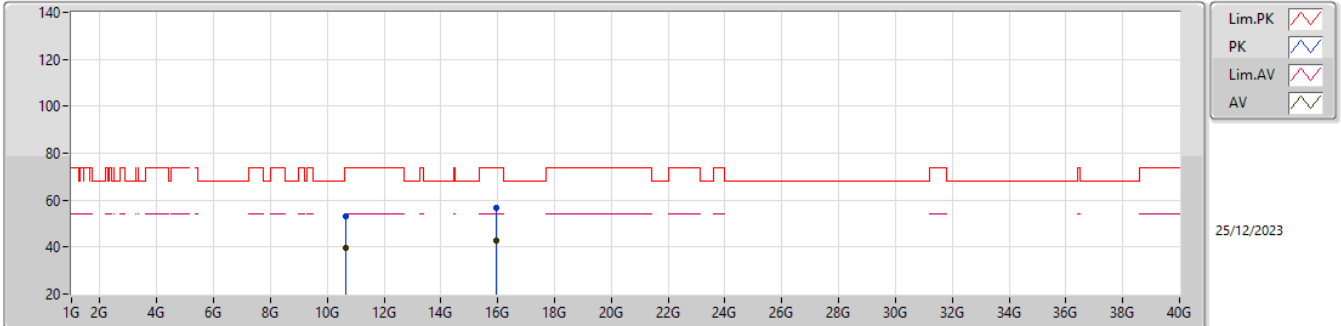


EUT_Z_2TX
Setting 66
02-E-N-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.3192G	113.13	Inf	-Inf	104.62	3	Horizontal	157	2.87	-	33.94	5.39	30.82
AV	5.3196G	103.63	Inf	-Inf	95.12	3	Horizontal	157	2.87	-	33.94	5.39	30.82
PK	5.35G	65.13	74.00	-8.87	56.57	3	Horizontal	157	2.87	-	34.00	5.40	30.84
AV	5.3504G	52.43	54.00	-1.57	43.87	3	Horizontal	157	2.87	-	34.00	5.40	30.84

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX

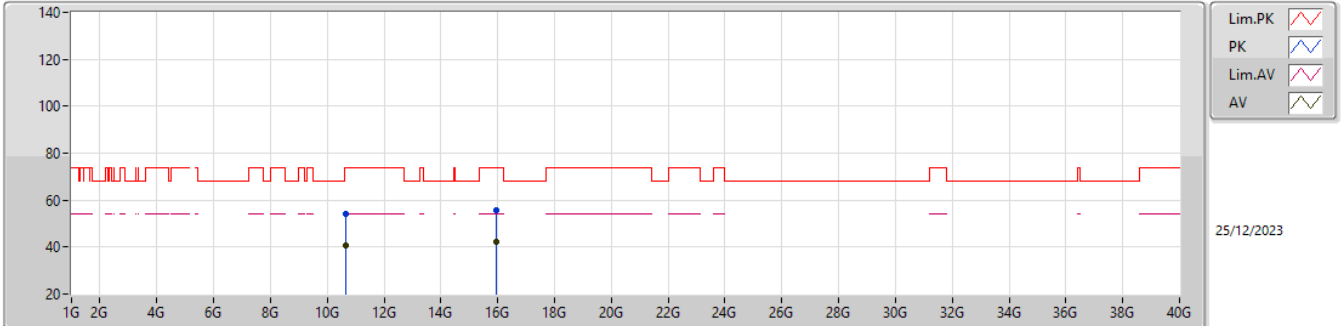


EUT_Y_2TX
Setting 66
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.64378G	52.87	74.00	-21.13	71.73	3	Vertical	220	1.98	-	38.40	8.28	65.54
AV	10.64372G	39.84	54.00	-14.16	58.70	3	Vertical	220	1.98	-	38.40	8.28	65.54
PK	15.95592G	56.61	74.00	-17.39	71.22	3	Vertical	232	1.88	-	37.42	10.27	62.30
AV	15.96174G	42.67	54.00	-11.33	57.25	3	Vertical	232	1.88	-	37.45	10.27	62.30

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX

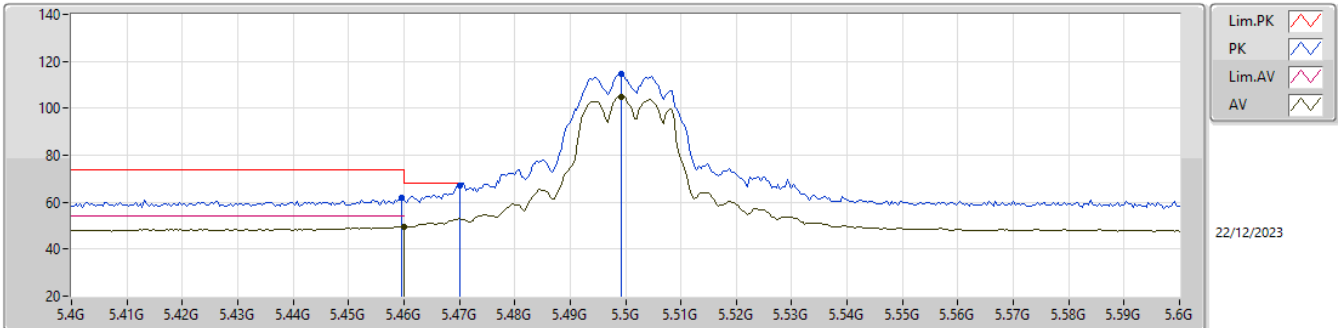


EUT_Y_2TX
Setting 66
02-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.64546G	54.25	74.00	-19.75	73.11	3	Horizontal	23	2.20	-	38.40	8.28	65.54
AV	10.63988G	40.48	54.00	-13.52	59.34	3	Horizontal	23	2.20	-	38.40	8.28	65.54
PK	15.95772G	55.51	74.00	-18.49	70.11	3	Horizontal	1	1.90	-	37.43	10.27	62.30
AV	15.95778G	42.20	54.00	-11.80	56.80	3	Horizontal	1	1.90	-	37.43	10.27	62.30

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX



EUT_Z_2TX
Setting 72
02-E-N-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.4596G	61.83	74.00	-12.17	53.20	3	Vertical	208	2.82	-	34.10	5.46	30.93
AV	5.46G	49.64	54.00	-4.36	41.01	3	Vertical	208	2.82	-	34.10	5.46	30.93
PK	5.47G	66.96	68.20	-1.24	58.33	3	Vertical	208	2.82	-	34.10	5.47	30.94
PK	5.4992G	114.59	Inf	-Inf	105.96	3	Vertical	208	2.82	-	34.10	5.49	30.96
AV	5.4992G	105.01	Inf	-Inf	96.38	3	Vertical	208	2.82	-	34.10	5.49	30.96