

FCC Radio Test Report

FCC ID : C3K2029
Equipment : Portable Computing Device
Brand Name : Microsoft
Model Name : 2029
Applicant : Microsoft Corporation
One Microsoft Way Redmond, WA 98052-6399, U.S.A
Manufacturer : Microsoft Corporation
One Microsoft Way Redmond, WA 98052-6399, U.S.A
Standard : 47 CFR FCC Part 15.407

The product was received on Jan. 03, 2023, and testing was started from Jan. 10, 2023 and completed on Jun. 05, 2023. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



Table of Contents

HISTORY OF THIS TEST REPORT3

SUMMARY OF TEST RESULT5

1 GENERAL DESCRIPTION6

1.1 Information.....6

1.2 Testing Applied Standards24

1.3 Testing Location Information24

1.4 Measurement Uncertainty24

2 TEST CONFIGURATION OF EUT.....25

2.1 Test Channel Mode25

2.2 The Worst Case Measurement Configuration26

2.3 Accessories28

2.4 Support Equipment.....28

2.5 Test Setup Diagram29

3 TRANSMITTER TEST RESULT31

3.1 AC Power-line Conducted Emissions31

3.2 Emission Bandwidth33

3.3 Maximum Conducted Output Power & EIRP34

3.4 Peak Power Spectral Density & EIRP Power Spectral Density36

3.5 Unwanted Emissions.....38

4 TEST EQUIPMENT AND CALIBRATION DATA.....42

APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS

APPENDIX B. TEST RESULTS OF EMISSION BANDWIDTH

APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER & EIRP

APPENDIX D. TEST RESULTS OF PEAK POWER SPECTRAL DENSITY & EIRP POWER SPECTRAL DENSITY

APPENDIX E. TEST RESULTS OF UNWANTED EMISSIONS

APPENDIX F. TEST RESULTS OF RADIATED EMISSION CO-LOCATION

PHOTOGRAPHS OF EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FR310101AN	01	Initial issue of report	Jul. 03, 2023
FR310101AN	02	Revised typo. (This report is the latest version replacing for the report issued on Jul. 03, 2023.)	Jul. 14, 2023
FR310101AN	03	Revised typo. (This report is the latest version replacing for the report issued on Jul. 14, 2023.)	Jul. 21, 2023
FR310101AN	04	Revised typo. (This report is the latest version replacing for the report issued on Jul. 21, 2023.)	Sep. 01, 2023





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 Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
None

Reviewed by: Ben Tseng

Report Producer: Michelle Tsai



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]
Straddle 5720		5720	144 [1]
5725-5850		5745-5825	149-165 [5]
5850-5895		5845-5885	169-177 [3]
5150-5250		n (HT40), ac (VHT40), ax (HEW40)	5190-5230
5250-5350	5270-5310		54-62 [2]
5470-5725	5510-5670		102-134 [5]
Straddle 5710	5710		142 [1]
5725-5850	5755-5795		151-159 [2]
5850-5895	5835-5875		167-175 [2]
5150-5250	ac (VHT80), ax (HEW80)		5210
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]
5725-5850		5775	155 [1]
5850-5895		5855	171 [1]
5150-5350		ac (VHT160), ax (HEW160)	5250
5470-5725	5570		114 [1]
5850-5895	5815		163 [1]

Full RU_5150-5850(MHz)

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX(Port 1)
5.15-5.25GHz	802.11a	20	1TX(Port 2)
5.25-5.35GHz	802.11a	20	1TX(Port 1)
5.25-5.35GHz	802.11a	20	1TX(Port 2)
5.47-5.725GHz	802.11a	20	1TX(Port 1)
5.47-5.725GHz	802.11a	20	1TX(Port 2)



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11a	20	1TX(Port 1)
5.725-5.85GHz	802.11a	20	1TX(Port 2)
5.15-5.25GHz	802.11n HT20	20	1TX(Port 1)
5.15-5.25GHz	802.11n HT20	20	1TX(Port 2)
5.15-5.25GHz	802.11n HT20	20	2TX
5.25-5.35GHz	802.11n HT20	20	1TX(Port 1)
5.25-5.35GHz	802.11n HT20	20	1TX(Port 2)
5.25-5.35GHz	802.11n HT20	20	2TX
5.47-5.725GHz	802.11n HT20	20	1TX(Port 1)
5.47-5.725GHz	802.11n HT20	20	1TX(Port 2)
5.47-5.725GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20	20	1TX(Port 1)
5.725-5.85GHz	802.11n HT20	20	1TX(Port 2)
5.725-5.85GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11n HT40	40	1TX(Port 1)
5.15-5.25GHz	802.11n HT40	40	1TX(Port 2)
5.15-5.25GHz	802.11n HT40	40	2TX
5.25-5.35GHz	802.11n HT40	40	1TX(Port 1)
5.25-5.35GHz	802.11n HT40	40	1TX(Port 2)
5.25-5.35GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11ac VHT20	20	1TX(Port 1)
5.15-5.25GHz	802.11ac VHT20	20	1TX(Port 2)
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	1TX(Port 1)
5.25-5.35GHz	802.11ac VHT20	20	1TX(Port 2)
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	1TX(Port 1)
5.47-5.725GHz	802.11ac VHT20	20	1TX(Port 2)
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	1TX(Port 1)
5.725-5.85GHz	802.11ac VHT20	20	1TX(Port 2)
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	1TX(Port 1)
5.15-5.25GHz	802.11ac VHT40	40	1TX(Port 2)
5.15-5.25GHz	802.11ac VHT40	40	2TX



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ac VHT40	40	1TX(Port 1)
5.25-5.35GHz	802.11ac VHT40	40	1TX(Port 2)
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	1TX(Port 1)
5.47-5.725GHz	802.11ac VHT40	40	1TX(Port 2)
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	1TX(Port 1)
5.725-5.85GHz	802.11ac VHT40	40	1TX(Port 2)
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	1TX(Port 1)
5.15-5.25GHz	802.11ac VHT80	80	1TX(Port 2)
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.25-5.35GHz	802.11ac VHT80	80	1TX(Port 1)
5.25-5.35GHz	802.11ac VHT80	80	1TX(Port 2)
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80	80	1TX(Port 1)
5.47-5.725GHz	802.11ac VHT80	80	1TX(Port 2)
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	1TX(Port 1)
5.725-5.85GHz	802.11ac VHT80	80	1TX(Port 2)
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ac VHT160	160	1TX(Port 1)
5.15-5.25GHz	802.11ac VHT160	160	1TX(Port 2)
5.15-5.25GHz	802.11ac VHT160	160	2TX
5.25-5.35GHz	802.11ac VHT160	160	1TX(Port 1)
5.25-5.35GHz	802.11ac VHT160	160	1TX(Port 2)
5.25-5.35GHz	802.11ac VHT160	160	2TX
5.47-5.725GHz	802.11ac VHT160	160	1TX(Port 1)
5.47-5.725GHz	802.11ac VHT160	160	1TX(Port 2)
5.47-5.725GHz	802.11ac VHT160	160	2TX
5.725-5.85GHz	802.11ac VHT160	160	1TX(Port 1)
5.725-5.85GHz	802.11ac VHT160	160	1TX(Port 2)
5.725-5.85GHz	802.11ac VHT160	160	2TX
5.15-5.25GHz	802.11ax HEW20	20	1TX(Port 1)
5.15-5.25GHz	802.11ax HEW20	20	1TX(Port 2)



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	1TX(Port 1)
5.25-5.35GHz	802.11ax HEW20	20	1TX(Port 2)
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	1TX(Port 1)
5.47-5.725GHz	802.11ax HEW20	20	1TX(Port 2)
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	1TX(Port 1)
5.725-5.85GHz	802.11ax HEW20	20	1TX(Port 2)
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW40	40	1TX(Port 1)
5.15-5.25GHz	802.11ax HEW40	40	1TX(Port 2)
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ax HEW40	40	1TX(Port 1)
5.25-5.35GHz	802.11ax HEW40	40	1TX(Port 2)
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	1TX(Port 1)
5.47-5.725GHz	802.11ax HEW40	40	1TX(Port 2)
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	1TX(Port 1)
5.725-5.85GHz	802.11ax HEW40	40	1TX(Port 2)
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW80	80	1TX(Port 1)
5.15-5.25GHz	802.11ax HEW80	80	1TX(Port 2)
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.25-5.35GHz	802.11ax HEW80	80	1TX(Port 1)
5.25-5.35GHz	802.11ax HEW80	80	1TX(Port 2)
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	1TX(Port 1)
5.47-5.725GHz	802.11ax HEW80	80	1TX(Port 2)
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	1TX(Port 1)
5.725-5.85GHz	802.11ax HEW80	80	1TX(Port 2)
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.15-5.25GHz	802.11ax HEW160	160	1TX(Port 1)



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW160	160	1TX(Port 2)
5.15-5.25GHz	802.11ax HEW160	160	2TX
5.25-5.35GHz	802.11ax HEW160	160	1TX(Port 1)
5.25-5.35GHz	802.11ax HEW160	160	1TX(Port 2)
5.25-5.35GHz	802.11ax HEW160	160	2TX
5.47-5.725GHz	802.11ax HEW160	160	1TX(Port 1)
5.47-5.725GHz	802.11ax HEW160	160	1TX(Port 2)
5.47-5.725GHz	802.11ax HEW160	160	2TX

Full RU_5850-5895(MHz)

Band	Mode	BWch (MHz)	Nant
5.725-5.895GHz	802.11a	20	1TX(Port 1)
5.725-5.895GHz	802.11a	20	1TX(Port 2)
5.725-5.895GHz	802.11n HT20	20	1TX(Port 1)
5.725-5.895GHz	802.11n HT20	20	1TX(Port 2)
5.725-5.895GHz	802.11n HT20	20	2TX
5.725-5.895GHz	802.11n HT40	40	1TX(Port 1)
5.725-5.895GHz	802.11n HT40	40	1TX(Port 2)
5.725-5.895GHz	802.11n HT40	40	2TX
5.725-5.895GHz	802.11ac VHT20	20	1TX(Port 1)
5.725-5.895GHz	802.11ac VHT20	20	1TX(Port 2)
5.725-5.895GHz	802.11ac VHT20	20	2TX
5.725-5.895GHz	802.11ac VHT40	40	1TX(Port 1)
5.725-5.895GHz	802.11ac VHT40	40	1TX(Port 2)
5.725-5.895GHz	802.11ac VHT40	40	2TX
5.725-5.895GHz	802.11ac VHT80	80	1TX(Port 1)
5.725-5.895GHz	802.11ac VHT80	80	1TX(Port 2)
5.725-5.895GHz	802.11ac VHT80	80	2TX
5.725-5.895GHz	802.11ac VHT160	160	1TX(Port 1)
5.725-5.895GHz	802.11ac VHT160	160	1TX(Port 2)
5.725-5.895GHz	802.11ac VHT160	160	2TX
5.725-5.895GHz	802.11ax HEW20	20	1TX(Port 1)
5.725-5.895GHz	802.11ax HEW20	20	1TX(Port 2)
5.725-5.895GHz	802.11ax HEW20	20	2TX
5.725-5.895GHz	802.11ax HEW40	40	1TX(Port 1)



Band	Mode	BWch (MHz)	Nant
5.725-5.895GHz	802.11ax HEW40	40	1TX(Port 2)
5.725-5.895GHz	802.11ax HEW40	40	2TX
5.725-5.895GHz	802.11ax HEW80	80	1TX(Port 1)
5.725-5.895GHz	802.11ax HEW80	80	1TX(Port 2)
5.725-5.895GHz	802.11ax HEW80	80	2TX
5.725-5.895GHz	802.11ax HEW160	160	1TX(Port 1)
5.725-5.895GHz	802.11ax HEW160	160	1TX(Port 2)
5.725-5.895GHz	802.11ax HEW160	160	2TX

Partial RU_5150-5850(MHz)

5.15-5.25GHz	802.11ax HEW20	20	1TX(Port 1)
5.15-5.25GHz	802.11ax HEW20	20	1TX(Port 2)
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	1TX(Port 1)
5.25-5.35GHz	802.11ax HEW20	20	1TX(Port 2)
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	1TX(Port 1)
5.47-5.725GHz	802.11ax HEW20	20	1TX(Port 2)
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	1TX(Port 1)
5.725-5.85GHz	802.11ax HEW20	20	1TX(Port 2)
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW40	40	1TX(Port 1)
5.15-5.25GHz	802.11ax HEW40	40	1TX(Port 2)
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ax HEW40	40	1TX(Port 1)
5.25-5.35GHz	802.11ax HEW40	40	1TX(Port 2)
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	1TX(Port 1)
5.47-5.725GHz	802.11ax HEW40	40	1TX(Port 2)
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	1TX(Port 1)
5.725-5.85GHz	802.11ax HEW40	40	1TX(Port 2)
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW80	80	1TX(Port 1)



5.15-5.25GHz	802.11ax HEW80	80	1TX(Port 2)
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.25-5.35GHz	802.11ax HEW80	80	1TX(Port 1)
5.25-5.35GHz	802.11ax HEW80	80	1TX(Port 2)
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	1TX(Port 1)
5.47-5.725GHz	802.11ax HEW80	80	1TX(Port 2)
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	1TX(Port 1)
5.725-5.85GHz	802.11ax HEW80	80	1TX(Port 2)
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.15-5.25GHz	802.11ax HEW160	160	1TX(Port 1)
5.15-5.25GHz	802.11ax HEW160	160	1TX(Port 2)
5.15-5.25GHz	802.11ax HEW160	160	2TX
5.25-5.35GHz	802.11ax HEW160	160	1TX(Port 1)
5.25-5.35GHz	802.11ax HEW160	160	1TX(Port 2)
5.25-5.35GHz	802.11ax HEW160	160	2TX
5.47-5.725GHz	802.11ax HEW160	160	1TX(Port 1)
5.47-5.725GHz	802.11ax HEW160	160	1TX(Port 2)
5.47-5.725GHz	802.11ax HEW160	160	2TX

Partial RU_5850-5895(MHz)

Band	Mode	BWch (MHz)	Nant
5.725-5.895GHz	802.11ax HEW20	20	1TX(Port 1)
5.725-5.895GHz	802.11ax HEW20	20	1TX(Port 2)
5.725-5.895GHz	802.11ax HEW20	20	2TX
5.725-5.895GHz	802.11ax HEW40	40	1TX(Port 1)
5.725-5.895GHz	802.11ax HEW40	40	1TX(Port 2)
5.725-5.895GHz	802.11ax HEW40	40	2TX
5.725-5.895GHz	802.11ax HEW80	80	1TX(Port 1)
5.725-5.895GHz	802.11ax HEW80	80	1TX(Port 2)
5.725-5.895GHz	802.11ax HEW80	80	2TX
5.725-5.895GHz	802.11ax HEW160	160	1TX(Port 1)
5.725-5.895GHz	802.11ax HEW160	160	1TX(Port 2)
5.725-5.895GHz	802.11ax HEW160	160	2TX



Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Amphenol	CNF964-16-000-R	PIFA	I-PEX
2	Amphenol	CNF965-16-000-R	PIFA	I-PEX

Ant.	Port	Gain (dBi)						
		2.4GHz	Bluetooth	5GHz				
				U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4
1(Aux)	1	4.57	4.57	4.83	5.23	5.89	6.02	5.77
2(Main)	2	4.77	-	4.11	5.43	6.16	5.85	5.74

Ant.	Port	Gain (dBi)			
		6GHz			
		U-NII-5	U-NII-6	U-NII-7	U-NII-8
1(Aux)	1	7.02	7.74	7.74	4.59
2(Main)	2	6.92	7.45	7.45	5.10

Note 1: The EUT has two antennas.

Note 2: The transmit signals are completely uncorrelated, the Directional Gain=

$$10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}] \text{ dBi}$$

For 2.4GHz function:

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

Support diversity function and tested on each single chain.

For IEEE 802.11 n/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For 5GHz function:

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

Support diversity function and tested on each single chain.

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 6GHz function:

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

Support diversity function and tested on each single chain.

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.



1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter / Battery			
EUT Function	<input type="checkbox"/>	Outdoor AP	<input type="checkbox"/>	Indoor AP
	<input type="checkbox"/>	Fixed P2P AP	<input checked="" type="checkbox"/>	Client
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming
TPC Function	<input checked="" type="checkbox"/>	With TPC Function	<input type="checkbox"/>	Without TPC Function
Weather Band	<input checked="" type="checkbox"/>	With 5600~5650MHz	<input type="checkbox"/>	Without 5600~5650MHz
Resource Unit(802.11ax)	<input checked="" type="checkbox"/>	Full RU	<input checked="" type="checkbox"/>	Partial RU
Type of EUT				
<input checked="" type="checkbox"/>	Stand-alone			
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:		...	
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:			
<input type="checkbox"/>	Other:			



1.1.4 Mode Test Duty Cycle

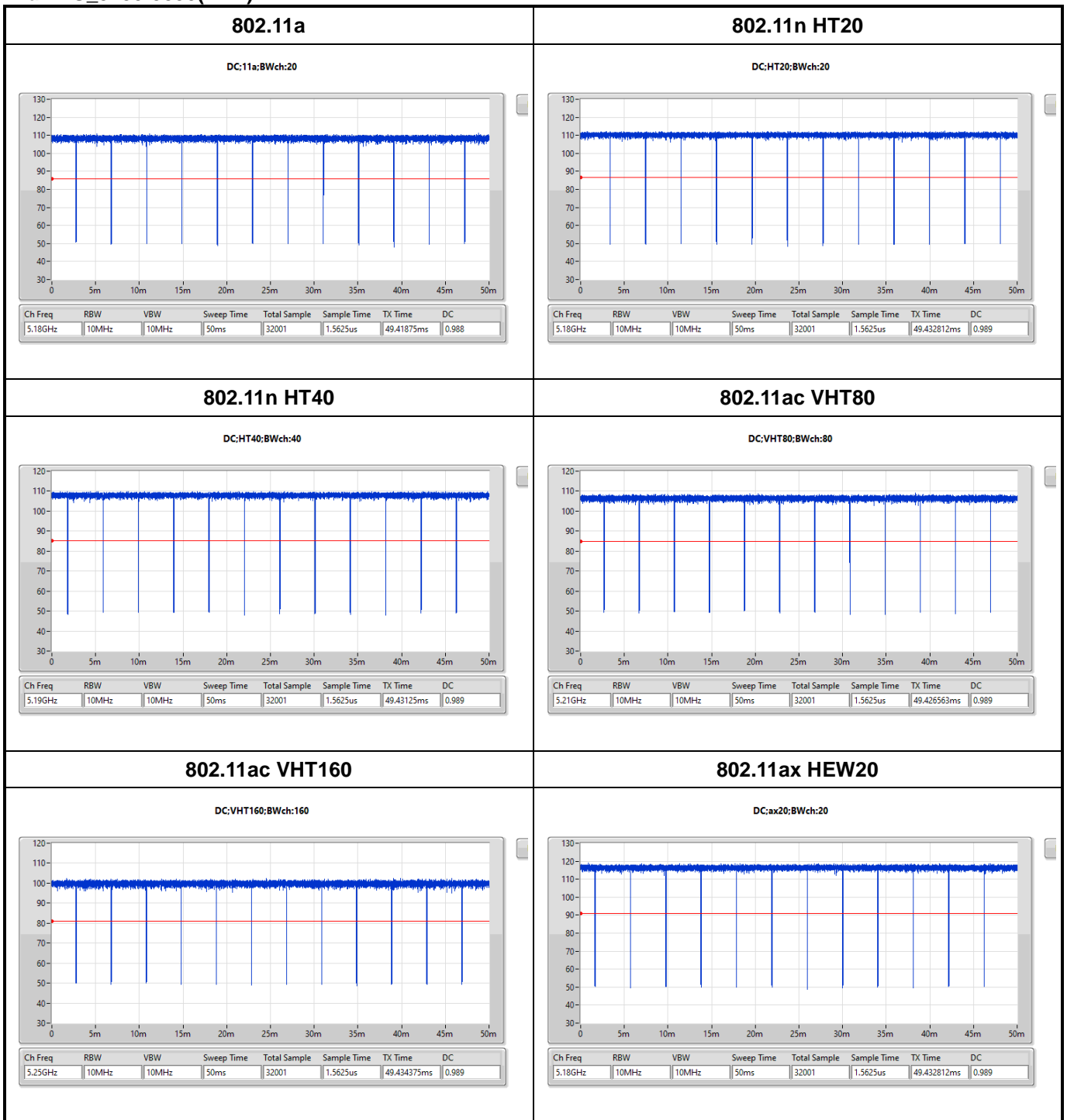
Full RU_5150-5850(MHz)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_1TX(Port1)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11a_Nss1,(6Mbps)_1TX(Port2)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20_Nss1,(MCS8)_1TX(Port1)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20_Nss1,(MCS8)_1TX(Port2)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20_Nss1,(MCS8)_2TX	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40_Nss1,(MCS8)_1TX(Port1)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40_Nss1,(MCS8)_1TX(Port2)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40_Nss1,(MCS8)_2TX	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT80_Nss1,(MCS0)_2TX	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT160_Nss1,(MCS0)_1TX(Port1)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT160_Nss1,(MCS0)_1TX(Port2)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT160_Nss1,(MCS0)_2TX	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_2TX	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_1TX(Port1)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_1TX(Port2)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_2TX	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_1TX(Port1)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_1TX(Port2)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_2TX	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_1TX(Port1)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_1TX(Port2)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_2TX	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.



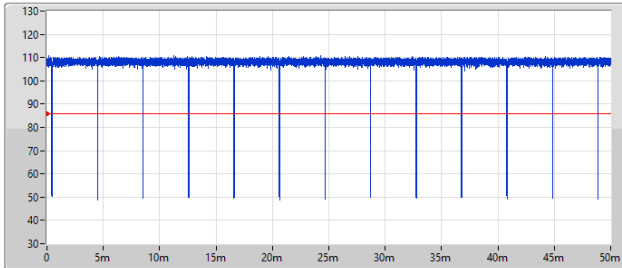
Full RU_5150-5850(MHz)





802.11ax HEW40

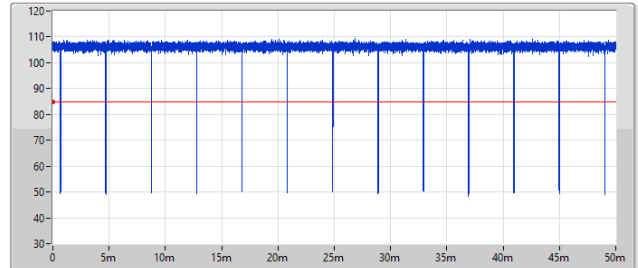
DC:ax40:BWch:40



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.19GHz	10MHz	10MHz	50ms	32001	1.5625us	49.384375ms	0.988

802.11ax HEW80

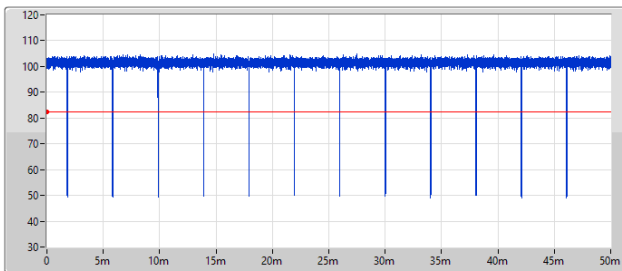
DC:ax80:BWch:80



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.21GHz	10MHz	10MHz	50ms	32001	1.5625us	49.389063ms	0.988

802.11ax HEW160

DC:ax160:BWch:160



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.25GHz	10MHz	10MHz	50ms	32001	1.5625us	49.434375ms	0.989



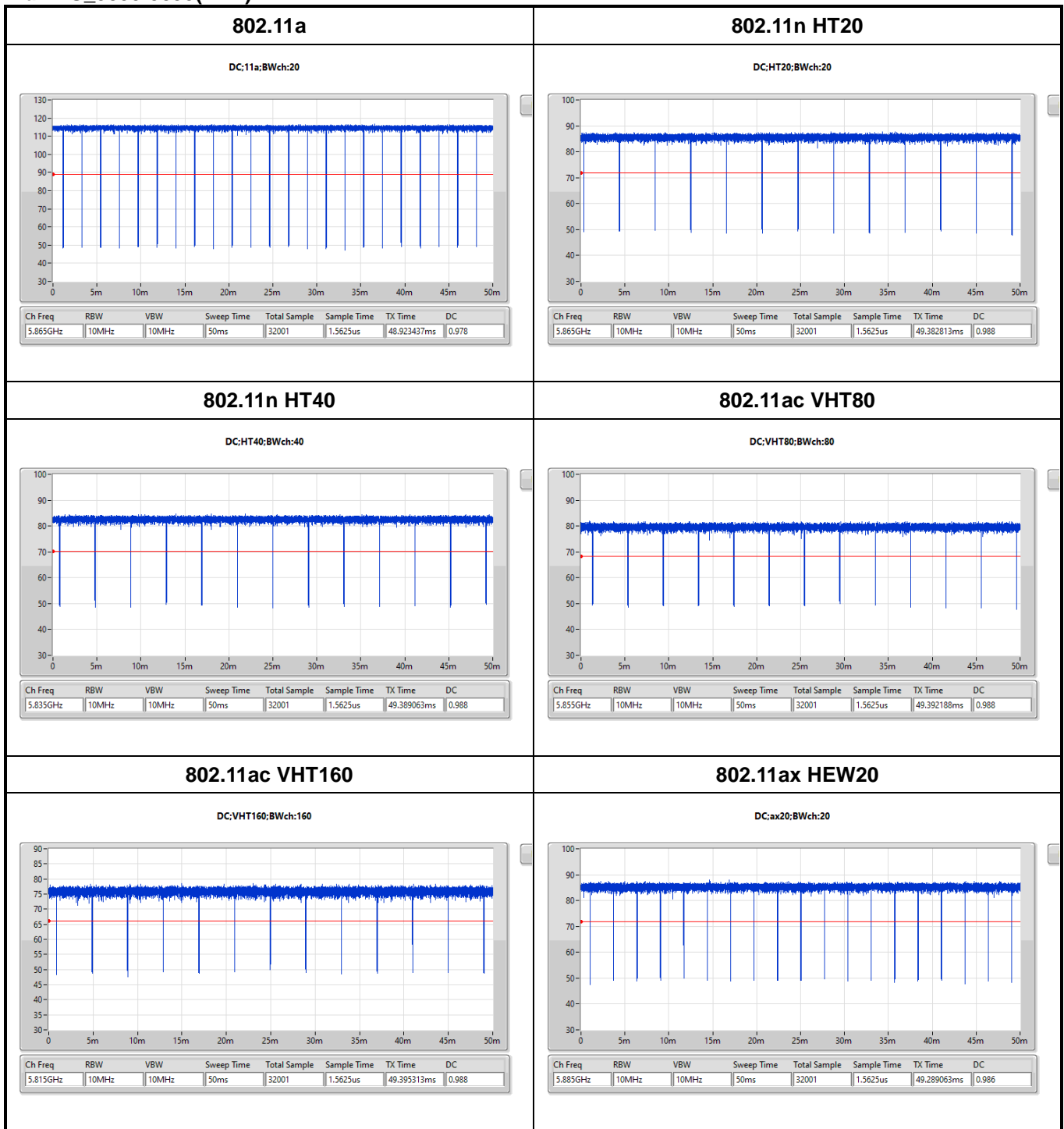
Full RU_5850-5895(MHz)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_1TX(Port1)	0.978	0.1	2.091m	1k
802.11a_Nss1,(6Mbps)_1TX(Port2)	0.978	0.1	2.091m	1k
802.11n HT20_Nss1,(MCS8)_1TX(Port1)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20_Nss1,(MCS8)_1TX(Port2)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20_Nss1,(MCS8)_2TX	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40_Nss1,(MCS8)_1TX(Port1)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40_Nss1,(MCS8)_1TX(Port2)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40_Nss1,(MCS8)_2TX	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT80_Nss1,(MCS0)_2TX	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT160_Nss1,(MCS0)_1TX(Port1)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT160_Nss1,(MCS0)_1TX(Port2)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT160_Nss1,(MCS0)_2TX	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_2TX	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_1TX(Port1)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_1TX(Port2)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_2TX	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_1TX(Port1)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_1TX(Port2)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_2TX	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_1TX(Port1)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_1TX(Port2)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_2TX	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.



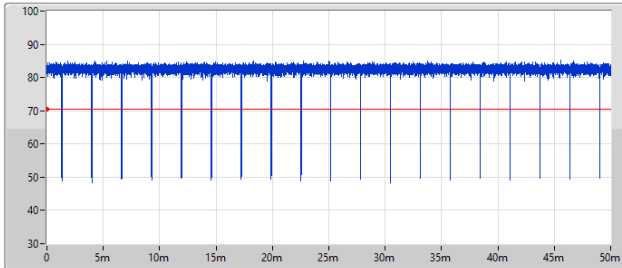
Full RU_5850-5895(MHz)





802.11ax HEW40

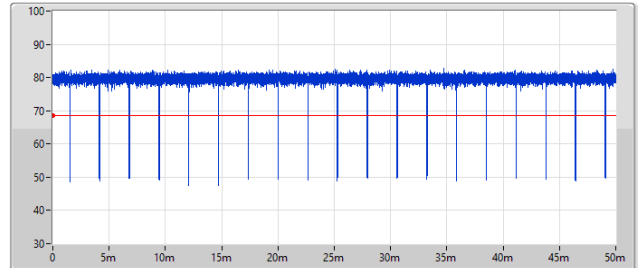
DC:ax40:BWch:40



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.835GHz	10MHz	10MHz	50ms	32001	1.5625us	49.298438ms	0.986

802.11ax HEW80

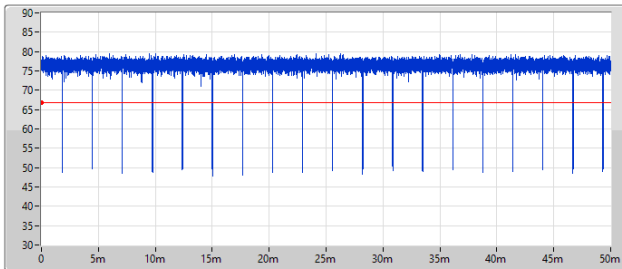
DC:ax80:BWch:80



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.855GHz	10MHz	10MHz	50ms	32001	1.5625us	49.3ms	0.986

802.11ax HEW160

DC:ax160:BWch:160



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.815GHz	10MHz	10MHz	50ms	32001	1.5625us	49.301562ms	0.986

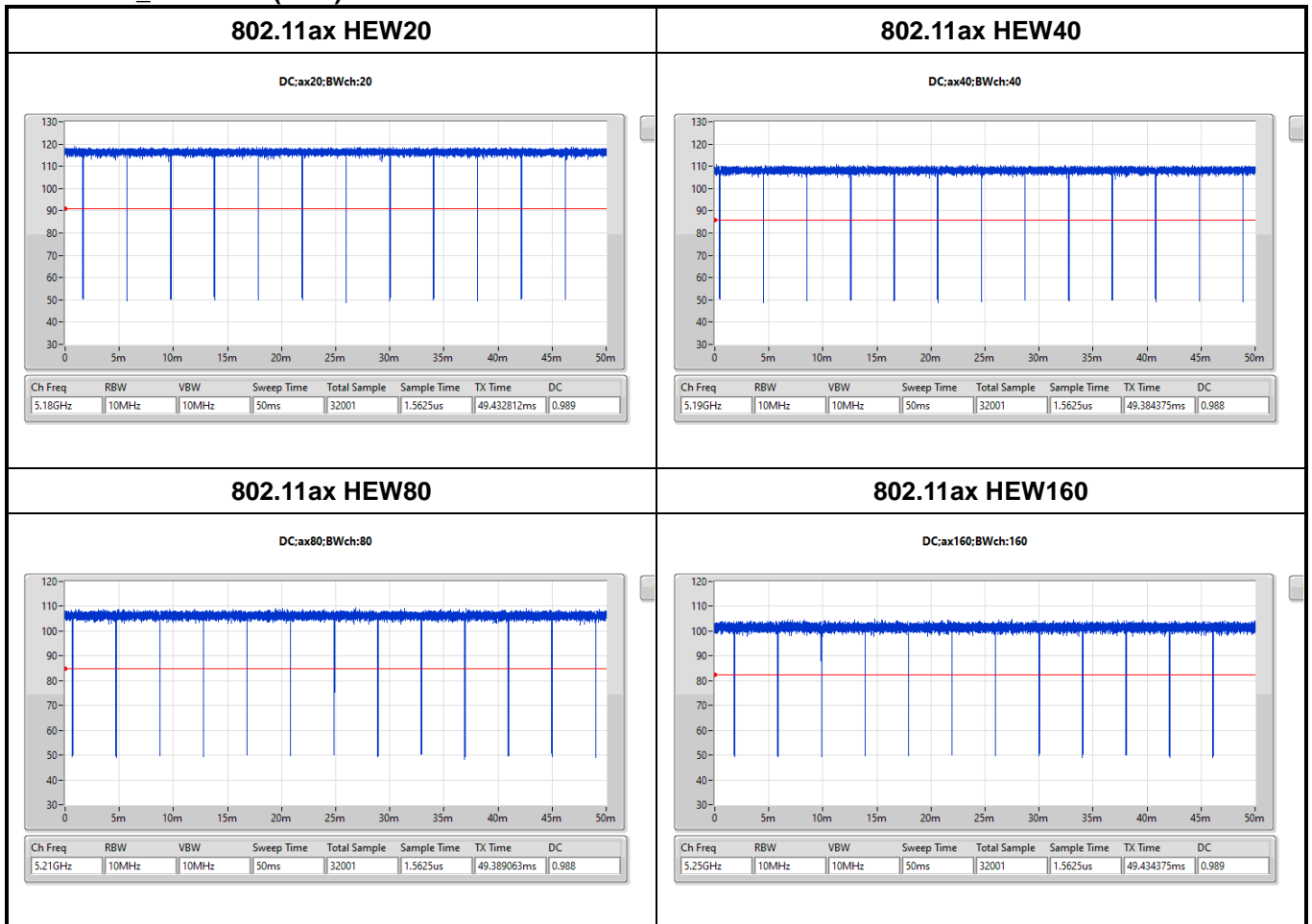


Partial RU_5150-5850(MHz)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_2TX	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_1TX(Port1)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_1TX(Port2)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_2TX	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_1TX(Port1)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_TX(Port2)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_2TX	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_1TX(Port1)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_1TX(Port2)	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_2TX	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Partial RU_5150-5850(MHz)



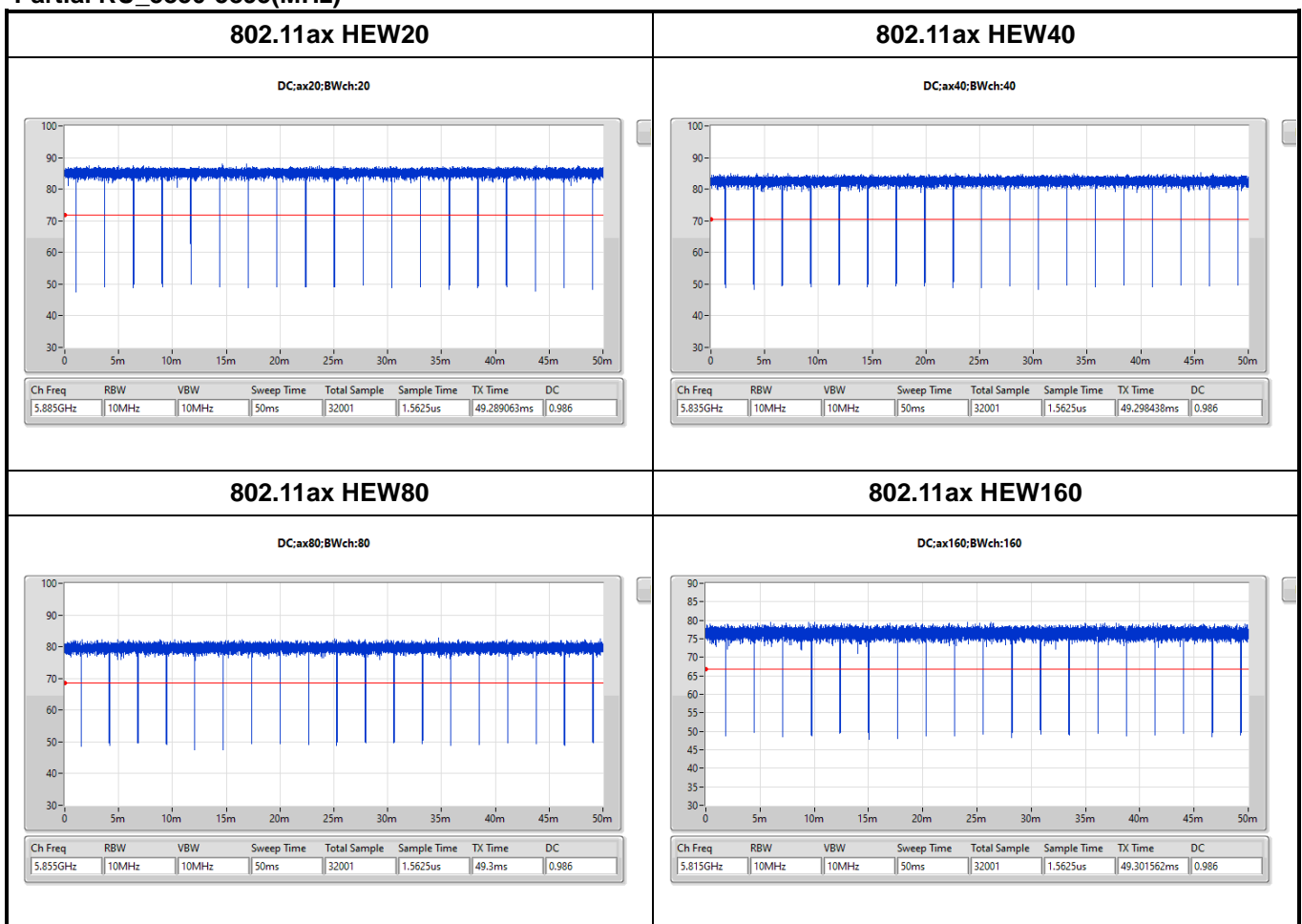


Partial RU_5850-5895(MHz)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_2TX	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_1TX(Port1)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_TX(Port2)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_2TX	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_1TX(Port1)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_1TX(Port2)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_2TX	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_1TX(Port1)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_1TX(Port2)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Partial RU_5850-5895(MHz)



1.2 Testing Applied 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
- ◆ KDB 789033 D02 v02r01

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		TEL: 886-3-327-3456	FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Daniel Lin	21.0~22.1°C / 51~56%	12/Jan/2023
RF Conducted	TH06-HY	Jin Jing	21.8~23.6°C / 52~68%	23/Jan/2023~30/May/2023
<input checked="" type="checkbox"/>	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
		TEL: 886-3-318-0787	FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated (5150-5850(MHz))	03CH09-HY	Nick Wu	23.8~24.1°C / 58~60%	10/Jan/2023~14/Mar/2023
Radiated (5850-5895(MHz))	03CH09-HY	Lego Lin	22.6~22.9°C / 55~59%	9/Feb/2023~31/Mar/2023
Radiated (Co-location)	03CH09-HY	Edward Wang	22.2~23.4°C / 50~52%	05/Jun/2023

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
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Emission Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Unwanted Emissions	4.8 dB	Confidence levels of 95%
Receiver Radiated Unwanted Emissions	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Full RU_5150-5850(MHz)

Test Software Version	DRTU Version: DRTU.03227.22.190.0
-----------------------	-----------------------------------

Full RU_5850-5895(MHz)

Test Software Version	DRTU Version: DRTU.03227.22.190.0
-----------------------	-----------------------------------

Partial RU_5150-5850(MHz)

Test Software Version	DRTU Version: DRTU.03227.22.190.0
-----------------------	-----------------------------------




Partial RU_5850-5895(MHz)

Test Software Version	DRTU Version: DRTU.03227.22.190.0
-----------------------	-----------------------------------

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	CTX
1	Adapter Mode
2	Adapter Mode (Full Port)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Unwanted Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter Mode		
2	Adapter Mode (Full Port)		
Operating Mode > 1GHz	CTX		
Three EUT configure modes were pretest, only the worst case was performed and recorded in this test report. EUT configure modes are described in the operational description.			
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	2.4GHz WLAN + Bluetooth
2	5GHz WLAN + Bluetooth
3	5.9GHz WLAN + Bluetooth
4	6GHz WLAN + Bluetooth

Refer to Sporton Test Report No.: FA310101 for Co-location RF Exposure Evaluation and Appendix F for Radiated Emission Co-location.

2.3 Accessories

Adapter 1	Brand Name	Microsoft	Model Name	1932
	Manufacturer	Chicony	SN	-
	Power Rating	I/P:100-240Vac,1.91A,O/P:15.0Vdc,8.0A,120.0W,5.0Vdc,1.5A,7.5W		
Adapter 2	Brand Name	Microsoft	Model Name	1798
	Manufacturer	Chicony	SN	-
	Power Rating	I/P:100-240Vac,1.5A,O/P:15.0Vdc,6.33A,95.0W,5.0Vdc,1.5A,7.5W		
Power Cord 1	Brand Name	Volex (Asia) Pte Ltd	Model Name	X908885
Power Cord 2	Brand Name	WELL SHIN TECHNOLOGY CO.,LTD	Model Name	X908885
Stylus	Brand Name	Microsoft	Model Name	1962
Battery 1	Brand Name	SMP	Model Name	G3HTA071H
Battery 2	Brand Name	SMP	Model Name	G3HTA072H

Reminder: Regarding to more detail and other information, please refer to user manual.

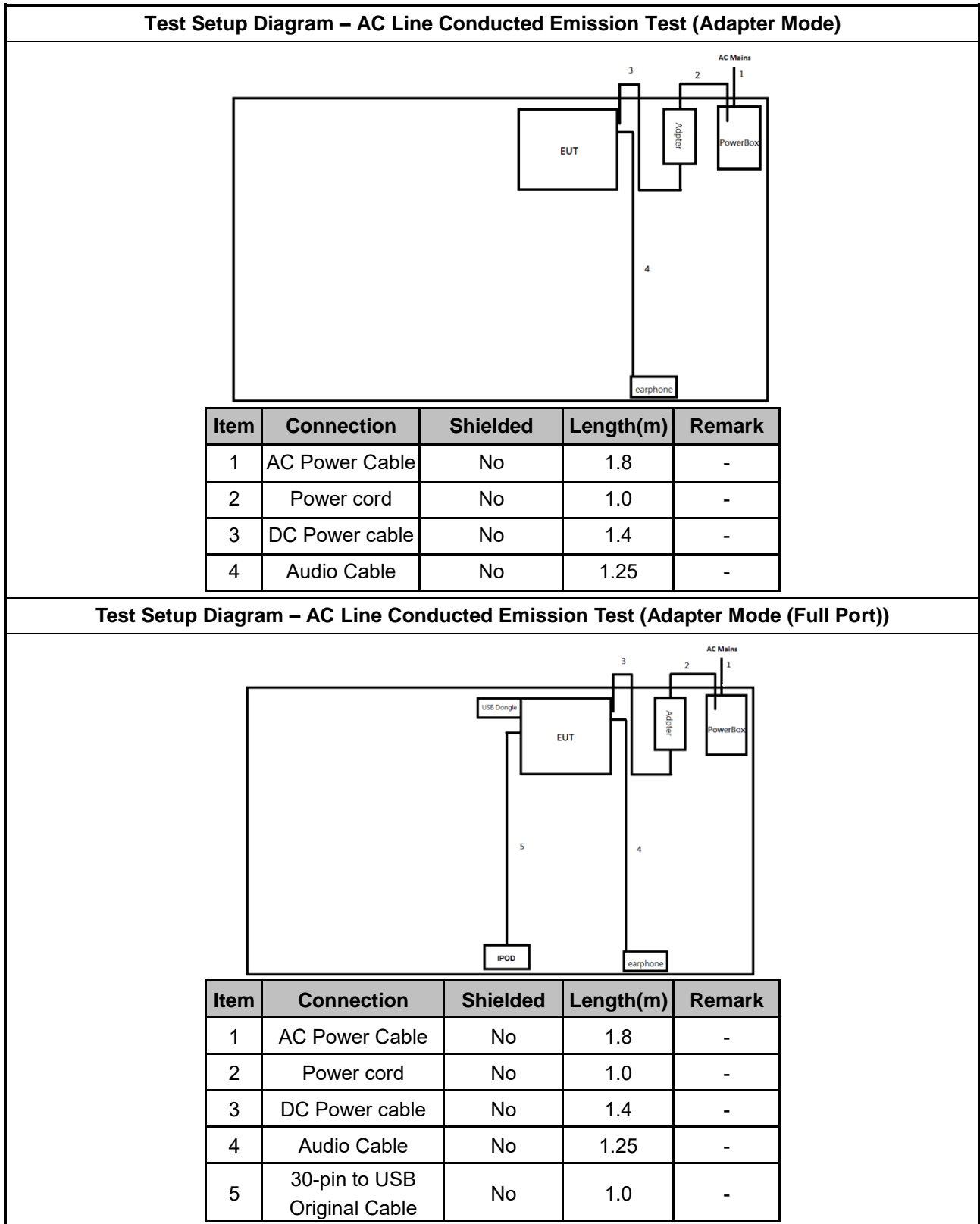
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	iPod	Apple	A1199	-	-
2	30-pin to USB Original cable	Apple	MA591GC	-	-
3	Earphone	Apple	MD827FE/A	-	-
4	USB Dongle*2	SanDisk	SDDDC4	-	-

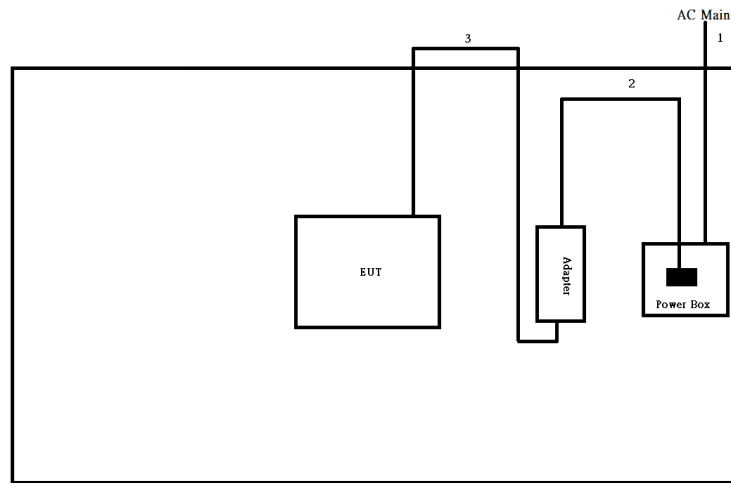
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Mouse	lenovo	MOGOUO	-	-
2	Earphone	EDSDS	EDS-C438	-	-
3	iPod	Apple	A1199	-	-
4	USB Dongle*2	SanDisk	SDDDC4	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	Dell	E5410	-	-
2	Adapter for NB	Dell	HA65NM130	-	-

2.5 Test Setup Diagram

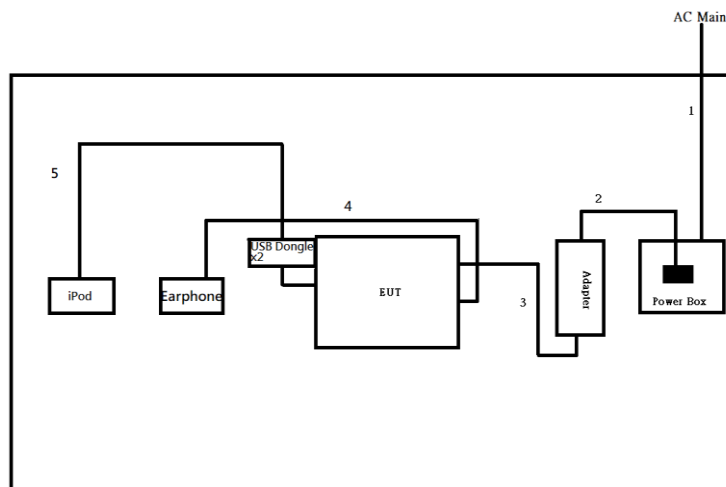


Test Setup Diagram - Radiated Test (Adapter Mode)



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	AC Power Cable	No	1.0	-
3	DC Power cable	No	1.4	-

Test Setup Diagram - Radiated Test(Adapter Mode (Full Port))



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	AC Power Cable	No	1.0	-
3	DC Power cable	No	1.4	-
4	Audio Cable	No	1.25	-
5	30-pin to USB Original Cable	No	1.25	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

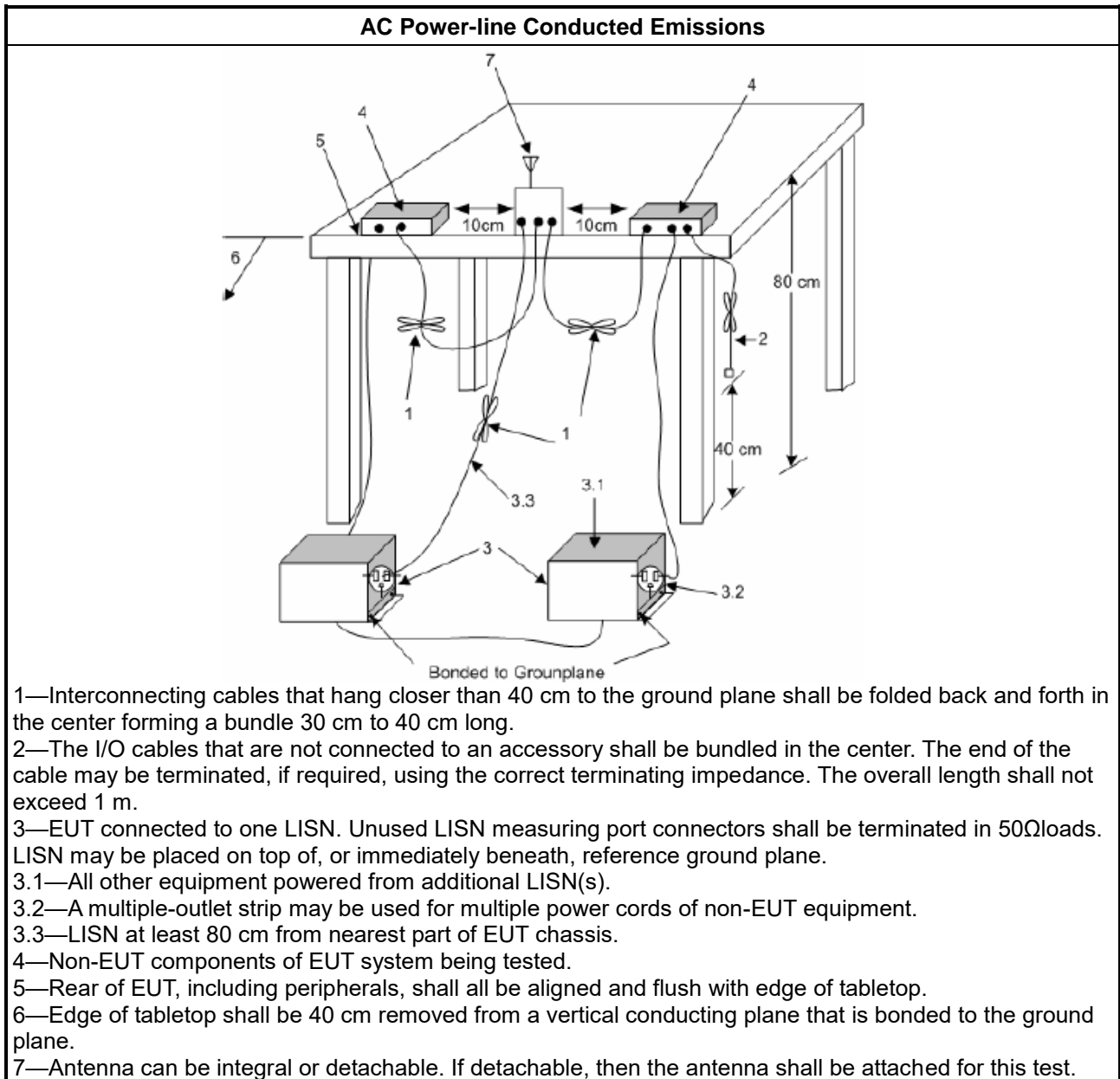
Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.
<input checked="" type="checkbox"/>	For the 5.85-5.895 GHz band, 6 dB emission bandwidth \geq 500kHz.

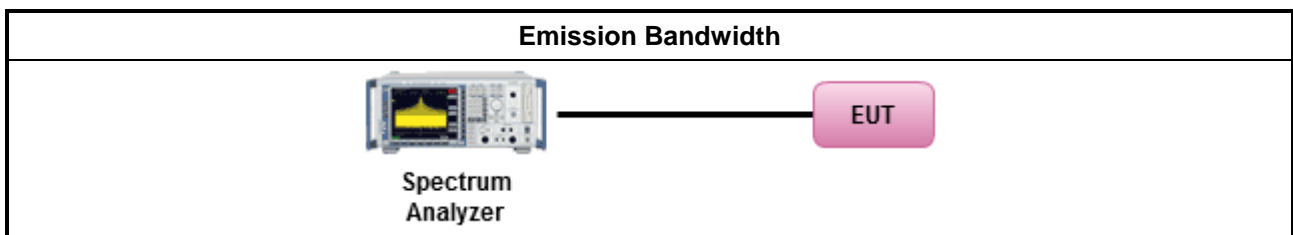
3.2.2 Measuring Instruments

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: 	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power & EIRP

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
Maximum EIRP Limit	
<input checked="" type="checkbox"/>	For the 5.85-5.895 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Indoor AP & subordinate device $< 36 \text{ dBm}$ ▪ Client device $< 30 \text{ dBm}$

3.3.2 Measuring Instruments

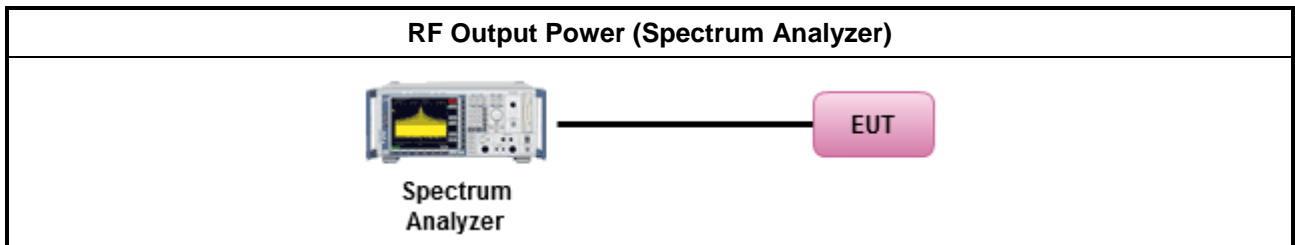
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

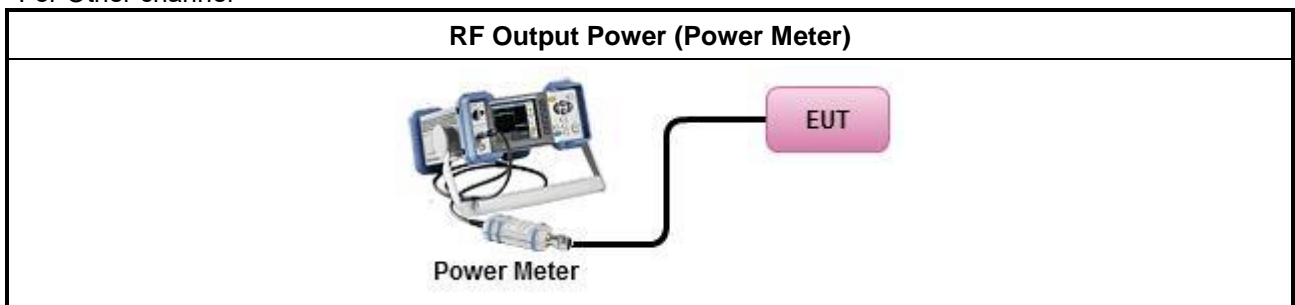
Test Method	
<ul style="list-style-type: none"> Maximum Conducted Output Power 	
	Duty cycle ≥ 98%
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle < 98%
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
<ul style="list-style-type: none"> For conducted measurement. 	
	<ul style="list-style-type: none"> If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	<ul style="list-style-type: none"> If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

For Straddle channel



For Other channel



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density & EIRP Power Spectral Density

3.4.1 Peak Power Spectral Density 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.
EIRP Power Spectral Density Limit	
<input checked="" type="checkbox"/> For the 5.85-5.895 GHz band:	
	<ul style="list-style-type: none"> ▪ Indoor AP & subordinate device < 20dBm/MHz ▪ Client device < 14dBm/MHz

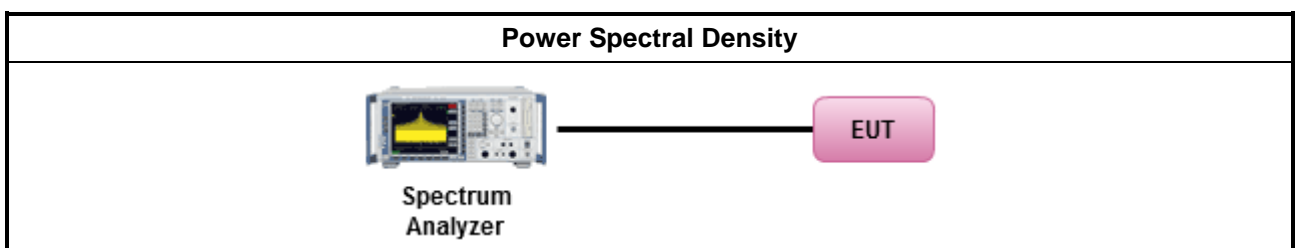
3.4.2 Measuring Instruments

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 KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
Duty cycle ≥ 98%	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
Duty cycle < 98%	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: 	
	<ul style="list-style-type: none"> ▪ Measure and sum the spectra across the outputs. Refer as 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.
	<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]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.85 - 5.895 GHz	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.



	(iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/ MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
<p>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).</p>	

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 KDB 789033, clause G)2) for unwanted emissions into non-restricted bands. ▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands. <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW. <input checked="" type="checkbox"/> Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit. 	
<ul style="list-style-type: none"> ▪ For radiated measurement. <ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. ▪ 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. 	
<ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level. 	
<ul style="list-style-type: none"> ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. 	
<ul style="list-style-type: none"> ▪ Use the following spectrum analyzer settings: <ul style="list-style-type: none"> ▪ Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold. ▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4. 	

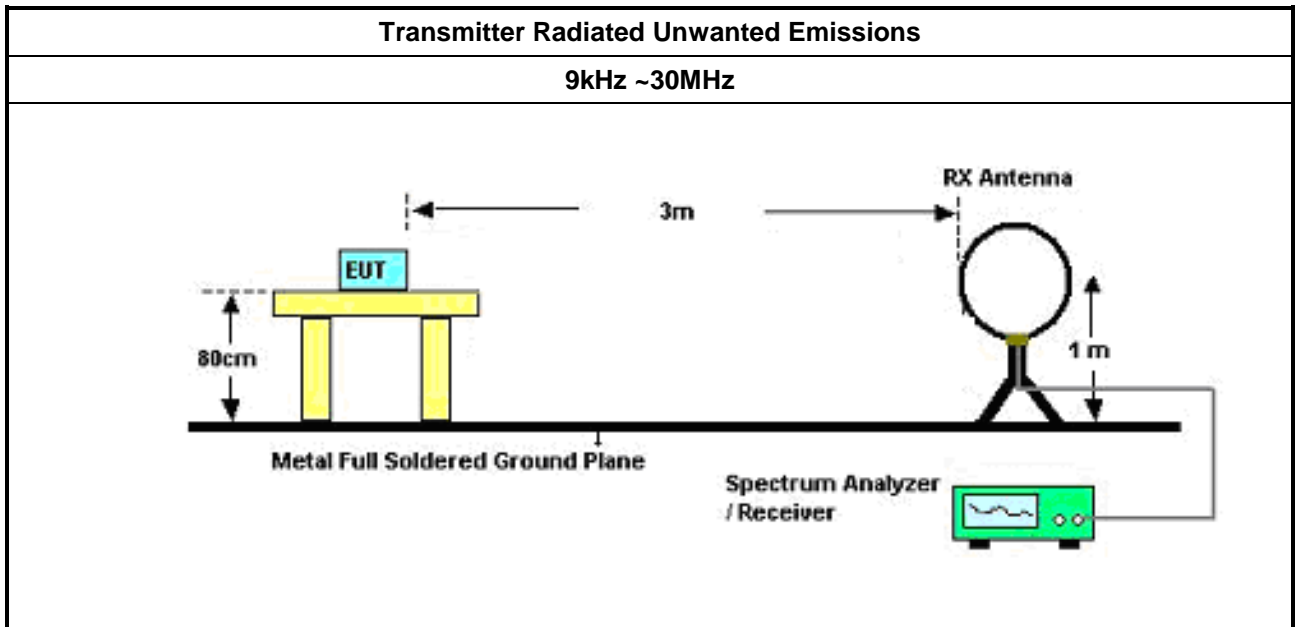
Test Method	
▪	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
▪	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
▪	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

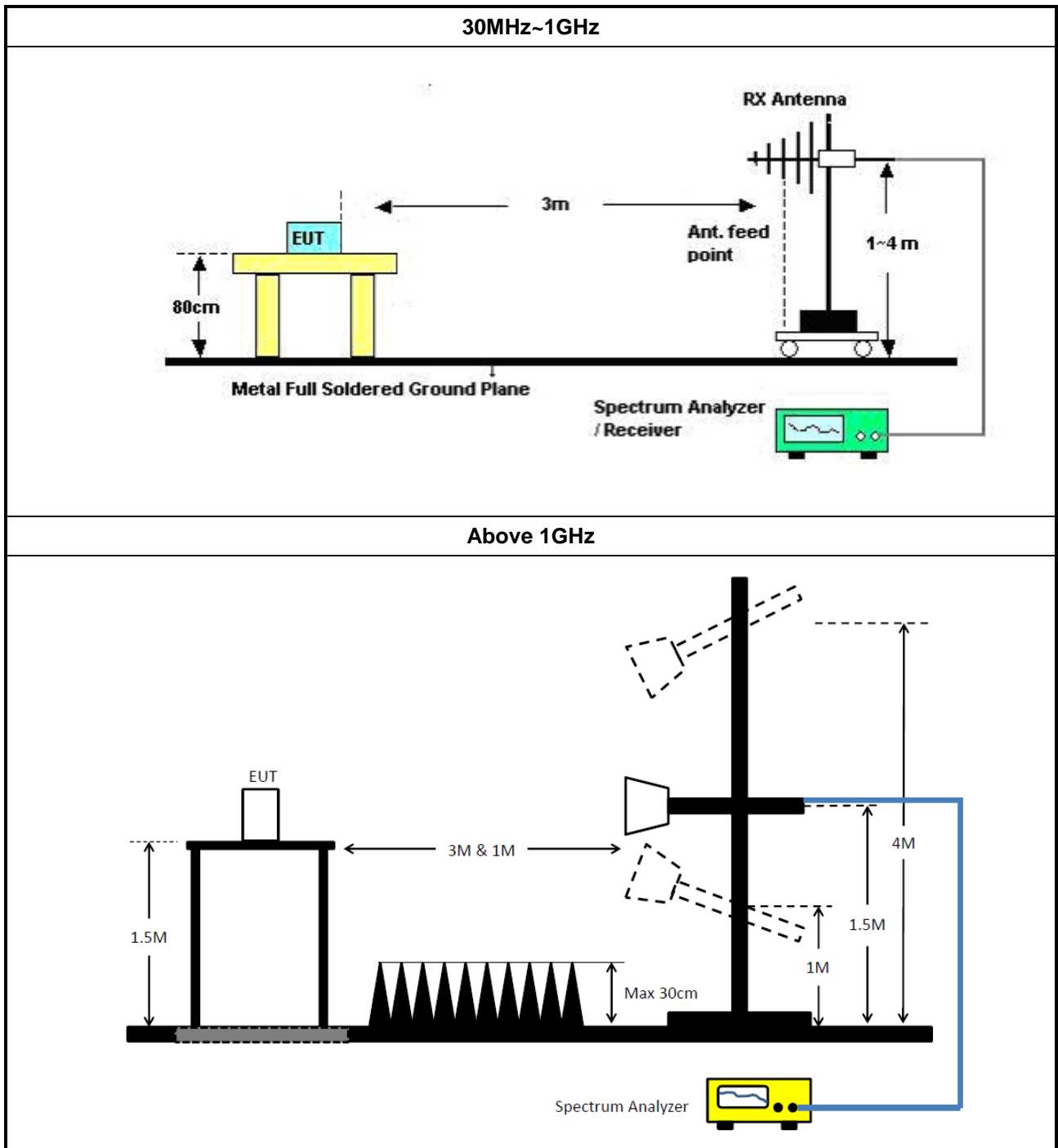
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.5.5 Test Setup





3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement. The parallel orientation was found to be the worst case scenario. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	10/Nov/2022	09/Nov/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2022	24/Mar/2023
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2022	24/Mar/2023
SENSE-15407_NII	Sporton	V5.11.3	N/A	N/A	N/A	N/A
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	15/Feb/2023	14/Feb/2024
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	15/Feb/2023	14/Feb/2024

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Site V.S.W.R	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	14/Mar/2023	13/Mar/2024
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	30/Dec/2022	29/Dec/2023
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	21/Feb/2023	20/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Prempplier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
SENSE-EMI	Sporton	V5.11	NA	NA	NA	NA



Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	25/Mar/2022	24/Mar/2023
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	26/Dec/2022	25/Dec/2023
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	08/Apr/2022	07/Apr/2023
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	28/Aug/2022	27/Aug/2023
RF Cable-low	Jye Bao	RG142	03CH09-cable-01	9kHz~1GHz	09/Dec/2022	08/Dec/2023
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	17/Aug/2022	16/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	30/Dec/2022	29/Dec/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1534	1GHz ~ 18GHz	10/Mar/2022	09/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	22/Aug/2022	21/Aug/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	18/Mar/2022	17/Mar/2023
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	23/Aug/2022	22/Aug/2023
Microwave Prempplier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	30/May/2022	29/May/2023
SENSE_15407_NII	Sporton	Sporton	V5.11	NA	NA	NA



Summary

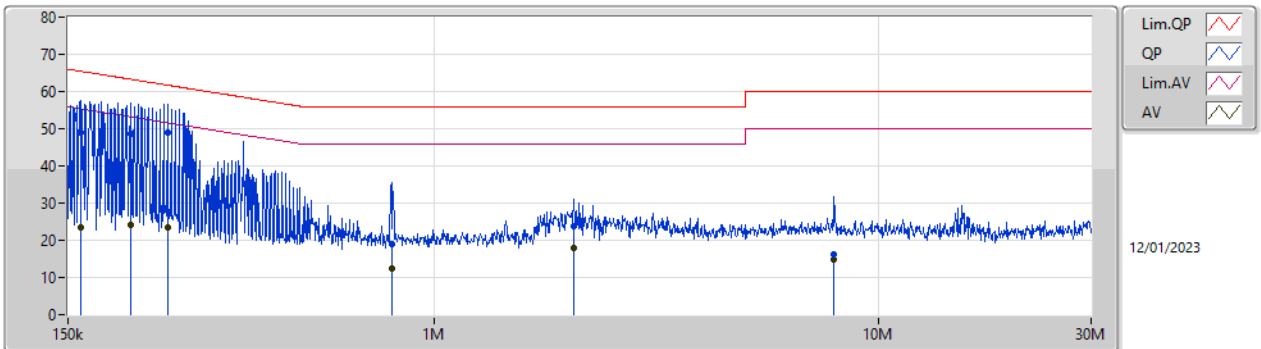
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	251.038k	49.06	61.72	-12.66	Line
Mode 2	Pass	QP	312.676k	49.47	59.90	-10.43	Neutral



Result

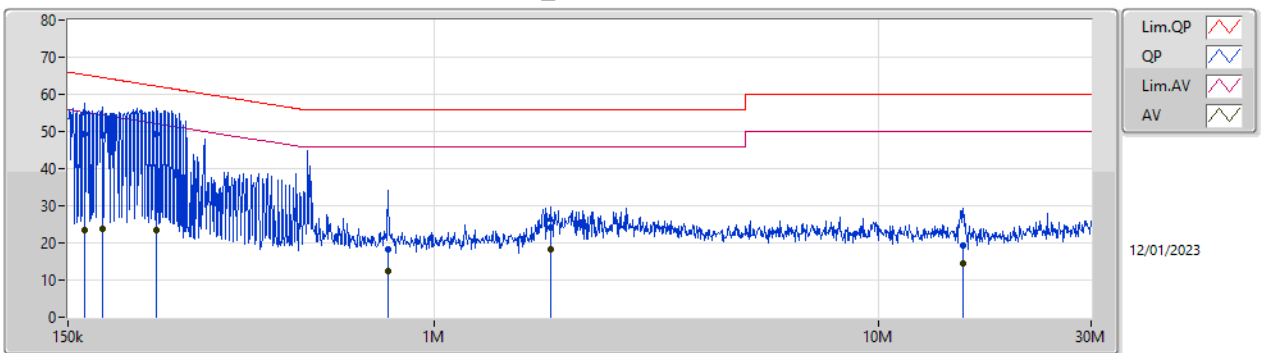
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	159.893k	49.13	65.46	-16.33	Line	-
Mode 1	Pass	AV	159.893k	23.38	55.46	-32.08	Line	-
Mode 1	Pass	QP	207.263k	48.61	63.30	-14.69	Line	-
Mode 1	Pass	AV	207.263k	24.00	53.30	-29.30	Line	-
Mode 1	Pass	QP	251.038k	49.06	61.72	-12.66	Line	-
Mode 1	Pass	AV	251.038k	23.37	51.72	-28.35	Line	-
Mode 1	Pass	QP	802.141k	19.05	56.00	-36.95	Line	-
Mode 1	Pass	AV	802.141k	12.27	46.00	-33.73	Line	-
Mode 1	Pass	QP	2.058M	23.89	56.00	-32.11	Line	-
Mode 1	Pass	AV	2.058M	17.97	46.00	-28.03	Line	-
Mode 1	Pass	QP	7.932M	16.20	60.00	-43.80	Line	-
Mode 1	Pass	AV	7.932M	14.80	50.00	-35.20	Line	-
Mode 1	Pass	QP	163.117k	49.41	65.31	-15.90	Neutral	-
Mode 1	Pass	AV	163.117k	23.30	55.31	-32.01	Neutral	-
Mode 1	Pass	QP	179.518k	48.91	64.51	-15.60	Neutral	-
Mode 1	Pass	AV	179.518k	23.95	54.51	-30.56	Neutral	-
Mode 1	Pass	QP	236.447k	49.22	62.21	-12.99	Neutral	-
Mode 1	Pass	AV	236.447k	23.34	52.21	-28.87	Neutral	-
Mode 1	Pass	QP	786.289k	18.31	56.00	-37.69	Neutral	-
Mode 1	Pass	AV	786.289k	12.26	46.00	-33.74	Neutral	-
Mode 1	Pass	QP	1.826M	24.23	56.00	-31.77	Neutral	-
Mode 1	Pass	AV	1.826M	18.36	46.00	-27.64	Neutral	-
Mode 1	Pass	QP	15.45M	19.25	60.00	-40.75	Neutral	-
Mode 1	Pass	AV	15.45M	14.58	50.00	-35.42	Neutral	-
Mode 2	Pass	QP	199.949k	49.27	63.61	-14.34	Line	-
Mode 2	Pass	AV	199.949k	27.63	53.61	-25.98	Line	-
Mode 2	Pass	QP	305.276k	49.07	60.09	-11.02	Line	-
Mode 2	Pass	AV	305.276k	26.31	50.09	-23.78	Line	-
Mode 2	Pass	QP	317.709k	49.19	59.77	-10.58	Line	-
Mode 2	Pass	AV	317.709k	26.09	49.77	-23.68	Line	-
Mode 2	Pass	QP	1.052M	39.45	56.00	-16.55	Line	-
Mode 2	Pass	AV	1.052M	25.64	46.00	-20.36	Line	-
Mode 2	Pass	QP	2.229M	32.98	56.00	-23.02	Line	-
Mode 2	Pass	AV	2.229M	21.02	46.00	-24.98	Line	-
Mode 2	Pass	QP	7.901M	26.32	60.00	-33.68	Line	-
Mode 2	Pass	AV	7.901M	20.07	50.00	-29.93	Line	-
Mode 2	Pass	QP	225.388k	50.65	62.62	-11.97	Neutral	-
Mode 2	Pass	AV	225.388k	31.34	52.62	-21.28	Neutral	-
Mode 2	Pass	QP	312.676k	49.47	59.90	-10.43	Neutral	-
Mode 2	Pass	AV	312.676k	27.78	49.90	-22.12	Neutral	-
Mode 2	Pass	QP	546.782k	38.09	56.00	-17.91	Neutral	-
Mode 2	Pass	AV	546.782k	22.68	46.00	-23.32	Neutral	-
Mode 2	Pass	QP	1.052M	39.22	56.00	-16.78	Neutral	-
Mode 2	Pass	AV	1.052M	25.16	46.00	-20.84	Neutral	-
Mode 2	Pass	QP	7.996M	24.53	60.00	-35.47	Neutral	-
Mode 2	Pass	AV	7.996M	18.91	50.00	-31.09	Neutral	-
Mode 2	Pass	QP	15.574M	29.30	60.00	-30.70	Neutral	-
Mode 2	Pass	AV	15.574M	21.21	50.00	-28.79	Neutral	-

Conducted Emissions at Powerline_Mode 1



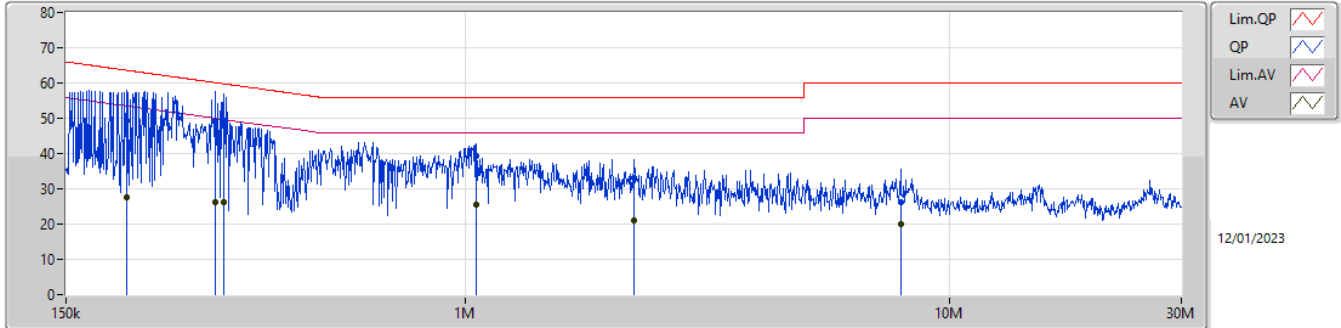
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	159.893k	49.13	65.46	-16.33	19.65	Line	-	29.48	9.69	0.03	9.93
AV	159.893k	23.38	55.46	-32.08	19.65	Line	-	3.73	9.69	0.03	9.93
QP	207.263k	48.61	63.30	-14.69	19.65	Line	-	28.96	9.69	0.03	9.93
AV	207.263k	24.00	53.30	-29.30	19.65	Line	-	4.35	9.69	0.03	9.93
QP	251.038k	49.06	61.72	-12.66	19.66	Line	-	29.40	9.69	0.03	9.94
AV	251.038k	23.37	51.72	-28.35	19.66	Line	-	3.71	9.69	0.03	9.94
QP	802.141k	19.05	56.00	-36.95	19.67	Line	-	-0.62	9.68	0.05	9.94
AV	802.141k	12.27	46.00	-33.73	19.67	Line	-	-7.40	9.68	0.05	9.94
QP	2.058M	23.89	56.00	-32.11	19.72	Line	-	4.17	9.70	0.08	9.94
AV	2.058M	17.97	46.00	-28.03	19.72	Line	-	-1.75	9.70	0.08	9.94
QP	7.932M	16.20	60.00	-43.80	19.90	Line	-	-3.70	9.78	0.17	9.95
AV	7.932M	14.80	50.00	-35.20	19.90	Line	-	-5.10	9.78	0.17	9.95

Conducted Emissions at Powerline_Mode 1



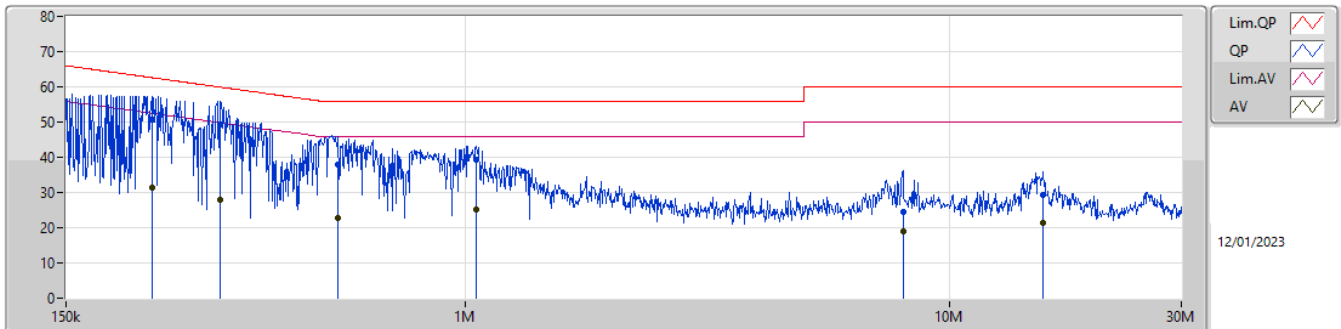
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	163.117k	49.41	65.31	-15.90	19.69	Neutral	-	29.72	9.73	0.03	9.93
AV	163.117k	23.30	55.31	-32.01	19.69	Neutral	-	3.61	9.73	0.03	9.93
QP	179.518k	48.91	64.51	-15.60	19.68	Neutral	-	29.23	9.72	0.03	9.93
AV	179.518k	23.95	54.51	-30.56	19.68	Neutral	-	4.27	9.72	0.03	9.93
QP	236.447k	49.22	62.21	-12.99	19.69	Neutral	-	29.53	9.72	0.03	9.94
AV	236.447k	23.34	52.21	-28.87	19.69	Neutral	-	3.65	9.72	0.03	9.94
QP	786.289k	18.31	56.00	-37.69	19.73	Neutral	-	-1.42	9.73	0.05	9.95
AV	786.289k	12.26	46.00	-33.74	19.73	Neutral	-	-7.47	9.73	0.05	9.95
QP	1.826M	24.23	56.00	-31.77	19.76	Neutral	-	4.47	9.74	0.08	9.94
AV	1.826M	18.36	46.00	-27.64	19.76	Neutral	-	-1.40	9.74	0.08	9.94
QP	15.45M	19.25	60.00	-40.75	20.16	Neutral	-	-0.91	9.95	0.24	9.97
AV	15.45M	14.58	50.00	-35.42	20.16	Neutral	-	-5.58	9.95	0.24	9.97

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	199.949k	49.27	63.61	-14.34	19.65	Line	-	29.62	9.69	0.03	9.93
AV	199.949k	27.63	53.61	-25.98	19.65	Line	-	7.98	9.69	0.03	9.93
QP	305.276k	49.07	60.09	-11.02	19.67	Line	-	29.40	9.68	0.04	9.95
AV	305.276k	26.31	50.09	-23.78	19.67	Line	-	6.64	9.68	0.04	9.95
QP	317.709k	49.19	59.77	-10.58	19.67	Line	-	29.52	9.68	0.04	9.95
AV	317.709k	26.09	49.77	-23.68	19.67	Line	-	6.42	9.68	0.04	9.95
QP	1.052M	39.45	56.00	-16.55	19.67	Line	-	19.78	9.68	0.05	9.94
AV	1.052M	25.64	46.00	-20.36	19.67	Line	-	5.97	9.68	0.05	9.94
QP	2.229M	32.98	56.00	-23.02	19.73	Line	-	13.25	9.70	0.09	9.94
AV	2.229M	21.02	46.00	-24.98	19.73	Line	-	1.29	9.70	0.09	9.94
QP	7.901M	26.32	60.00	-33.68	19.90	Line	-	6.42	9.78	0.17	9.95
AV	7.901M	20.07	50.00	-29.93	19.90	Line	-	0.17	9.78	0.17	9.95

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	225.388k	50.65	62.62	-11.97	19.69	Neutral	-	30.96	9.72	0.03	9.94
AV	225.388k	31.34	52.62	-21.28	19.69	Neutral	-	11.65	9.72	0.03	9.94
QP	312.676k	49.47	59.90	-10.43	19.71	Neutral	-	29.76	9.72	0.04	9.95
AV	312.676k	27.78	49.90	-22.12	19.71	Neutral	-	8.07	9.72	0.04	9.95
QP	546.782k	38.09	56.00	-17.91	19.71	Neutral	-	18.38	9.72	0.04	9.95
AV	546.782k	22.68	46.00	-23.32	19.71	Neutral	-	2.97	9.72	0.04	9.95
QP	1.052M	39.22	56.00	-16.78	19.72	Neutral	-	19.50	9.73	0.05	9.94
AV	1.052M	25.16	46.00	-20.84	19.72	Neutral	-	5.44	9.73	0.05	9.94
QP	7.996M	24.53	60.00	-35.47	19.98	Neutral	-	4.55	9.86	0.17	9.95
AV	7.996M	18.91	50.00	-31.09	19.98	Neutral	-	-1.07	9.86	0.17	9.95
QP	15.574M	29.30	60.00	-30.70	20.16	Neutral	-	9.14	9.95	0.24	9.97
AV	15.574M	21.21	50.00	-28.79	20.16	Neutral	-	1.05	9.95	0.24	9.97



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(Port1)	35.112M	17.283M	17M3D1D	22.77M	16.676M
802.11a_Nss1,(6Mbps)_1TX(Port2)	23.496M	16.703M	16M7D1D	22.572M	16.597M
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	23.562M	17.811M	17M8D1D	23.166M	17.751M
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	23.826M	17.781M	17M8D1D	23.034M	17.751M
802.11n HT20_Nss1,(MCS8)_2TX	24.288M	17.781M	17M8D1D	23.166M	17.751M
802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)	23.892M	18.891M	18M9D1D	23.364M	18.891M
802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)	24.156M	18.921M	18M9D1D	22.506M	18.891M
802.11ax HEW20_Nss1,(MCS0)_2TX	24.222M	18.921M	18M9D1D	22.572M	18.891M
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	45.012M	36.222M	36M2D1D	43.164M	36.162M
802.11n HT40_Nss1,(MCS0)_1TX(Port2)	44.748M	36.222M	36M2D1D	43.428M	36.162M
802.11n HT40_Nss1,(MCS8)_2TX	45.276M	36.222M	36M2D1D	42.108M	36.102M
802.11ax HEW40_Nss1,(MCS0)_1TX(Port1)	44.088M	37.661M	37M7D1D	42.504M	37.601M
802.11ax HEW40_Nss1,(MCS0)_1TX(Port2)	43.164M	37.541M	37M5D1D	42.636M	37.541M
802.11ax HEW40_Nss1,(MCS0)_2TX	43.032M	37.541M	37M5D1D	42.24M	37.481M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	86.328M	75.082M	75M1D1D	86.328M	75.082M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	85.272M	75.202M	75M2D1D	85.272M	75.202M
802.11ac VHT80_Nss1,(MCS0)_2TX	87.12M	75.082M	75M1D1D	86.064M	75.082M
802.11ax HEW80_Nss1,(MCS0)_1TX(Port1)	82.896M	76.882M	76M9D1D	82.896M	76.882M
802.11ax HEW80_Nss1,(MCS0)_1TX(Port2)	85.008M	76.882M	76M9D1D	85.008M	76.882M
802.11ax HEW80_Nss1,(MCS0)_2TX	83.16M	76.642M	76M6D1D	82.896M	76.522M
802.11ac VHT160_Nss1,(MCS0)_1TX(Port1)	81.52M	75.882M	75M9D1D	81.52M	75.882M
802.11ac VHT160_Nss1,(MCS0)_1TX(Port2)	82.08M	75.962M	76M0D1D	82.08M	75.962M
802.11ac VHT160_Nss1,(MCS0)_2TX	81.84M	75.802M	75M8D1D	81.68M	75.722M
802.11ax HEW160_Nss1,(MCS0)_1TX(Port1)	81.44M	77.321M	77M3D1D	81.44M	77.321M
802.11ax HEW160_Nss1,(MCS0)_1TX(Port2)	81.12M	77.241M	77M2D1D	81.12M	77.241M
802.11ax HEW160_Nss1,(MCS0)_2TX	81.44M	77.241M	77M2D1D	81.36M	77.161M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	23.232M	16.756M	16M8D1D	23.1M	16.676M
802.11a_Nss1,(6Mbps)_1TX(Port2)	23.43M	16.624M	16M6D1D	22.11M	16.597M
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	23.496M	17.781M	17M8D1D	23.1M	17.721M
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	23.496M	17.781M	17M8D1D	23.166M	17.751M
802.11n HT20_Nss1,(MCS8)_2TX	24.156M	17.811M	17M8D1D	23.166M	17.721M
802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)	23.496M	18.921M	18M9D1D	22.77M	18.891M
802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)	23.694M	18.921M	18M9D1D	23.166M	18.891M
802.11ax HEW20_Nss1,(MCS0)_2TX	24.024M	18.951M	19M0D1D	22.836M	18.891M
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	47.388M	36.342M	36M3D1D	43.428M	36.162M
802.11n HT40_Nss1,(MCS0)_1TX(Port2)	44.616M	36.162M	36M2D1D	43.164M	36.162M
802.11n HT40_Nss1,(MCS8)_2TX	45.276M	36.222M	36M2D1D	42.636M	35.982M
802.11ax HEW40_Nss1,(MCS0)_1TX(Port1)	43.428M	37.601M	37M6D1D	42.504M	37.541M
802.11ax HEW40_Nss1,(MCS0)_1TX(Port2)	44.22M	37.541M	37M5D1D	42.108M	37.481M
802.11ax HEW40_Nss1,(MCS0)_2TX	43.296M	37.541M	37M5D1D	41.844M	37.541M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	83.424M	74.963M	75M0D1D	83.424M	74.963M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	86.064M	75.082M	75M1D1D	86.064M	75.082M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.952M	75.082M	75M1D1D	83.688M	74.963M
802.11ax HEW80_Nss1,(MCS0)_1TX(Port1)	82.104M	76.762M	76M8D1D	82.104M	76.762M
802.11ax HEW80_Nss1,(MCS0)_1TX(Port2)	82.896M	76.762M	76M8D1D	82.896M	76.762M
802.11ax HEW80_Nss1,(MCS0)_2TX	83.952M	76.642M	76M6D1D	82.896M	76.642M
802.11ac VHT160_Nss1,(MCS0)_1TX(Port1)	82.16M	75.882M	75M9D1D	82.16M	75.882M
802.11ac VHT160_Nss1,(MCS0)_1TX(Port2)	82.16M	75.802M	75M8D1D	82.16M	75.802M
802.11ac VHT160_Nss1,(MCS0)_2TX	82.24M	75.802M	75M8D1D	81.92M	75.802M
802.11ax HEW160_Nss1,(MCS0)_1TX(Port1)	81.28M	77.401M	77M4D1D	81.28M	77.401M
802.11ax HEW160_Nss1,(MCS0)_1TX(Port2)	81.36M	77.161M	77M2D1D	81.36M	77.161M
802.11ax HEW160_Nss1,(MCS0)_2TX	81.44M	77.321M	77M3D1D	81.28M	77.321M
5.47-5.725GHz	-	-	-	-	-



Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX(Port1)	23.562M	16.729M	16M7D1D	16.875M	13.448M
802.11a_Nss1,(6Mbps)_1TX(Port2)	23.166M	16.65M	16M7D1D	16.905M	13.433M
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	24.09M	17.781M	17M8D1D	17.205M	13.928M
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	23.496M	17.811M	17M8D1D	17.07M	13.913M
802.11n HT20_Nss1,(MCS8)_2TX	24.024M	17.841M	17M8D1D	16.89M	13.898M
802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)	23.826M	18.921M	18M9D1D	17.22M	14.468M
802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)	24.288M	18.921M	18M9D1D	16.815M	14.438M
802.11ax HEW20_Nss1,(MCS0)_2TX	23.826M	18.921M	18M9D1D	16.905M	14.423M
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	43.824M	36.162M	36M2D1D	36.89M	32.884M
802.11n HT40_Nss1,(MCS0)_1TX(Port2)	43.692M	36.222M	36M2D1D	36.75M	32.814M
802.11n HT40_Nss1,(MCS8)_2TX	43.824M	36.162M	36M2D1D	36.33M	32.779M
802.11ax HEW40_Nss1,(MCS0)_1TX(Port1)	42.24M	37.601M	37M6D1D	37.59M	33.513M
802.11ax HEW40_Nss1,(MCS0)_1TX(Port2)	43.032M	37.601M	37M6D1D	36.68M	33.548M
802.11ax HEW40_Nss1,(MCS0)_2TX	43.692M	37.601M	37M6D1D	36.575M	33.513M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	86.064M	75.082M	75M1D1D	78.675M	71.889M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	85.272M	75.082M	75M1D1D	77.85M	71.889M
802.11ac VHT80_Nss1,(MCS0)_2TX	85.536M	75.082M	75M1D1D	77.625M	71.814M
802.11ax HEW80_Nss1,(MCS0)_1TX(Port1)	83.16M	76.762M	76M8D1D	76.8M	72.489M
802.11ax HEW80_Nss1,(MCS0)_1TX(Port2)	83.16M	76.762M	76M8D1D	76.5M	72.639M
802.11ax HEW80_Nss1,(MCS0)_2TX	85.008M	76.882M	76M9D1D	76.8M	72.564M
802.11ac VHT160_Nss1,(MCS0)_1TX(Port1)	164.208M	153.043M	153MD1D	164.208M	153.043M
802.11ac VHT160_Nss1,(MCS0)_1TX(Port2)	163.68M	153.283M	153MD1D	163.68M	153.283M
802.11ac VHT160_Nss1,(MCS0)_2TX	163.68M	153.283M	153MD1D	163.152M	153.043M
802.11ax HEW160_Nss1,(MCS0)_1TX(Port1)	165.264M	154.483M	154MD1D	165.264M	154.483M
802.11ax HEW160_Nss1,(MCS0)_1TX(Port2)	163.68M	154.963M	155MD1D	163.68M	154.963M
802.11ax HEW160_Nss1,(MCS0)_2TX	164.208M	154.963M	155MD1D	164.208M	154.483M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	15.444M	16.729M	16M7D1D	3.1M	5.237M
802.11a_Nss1,(6Mbps)_1TX(Port2)	15.114M	16.676M	16M7D1D	3.1M	5.357M
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	17.556M	17.781M	17M8D1D	3.86M	5.537M
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	17.556M	17.781M	17M8D1D	3.76M	5.517M
802.11n HT20_Nss1,(MCS8)_2TX	17.556M	17.811M	17M8D1D	3.74M	5.557M
802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)	17.886M	18.921M	18M9D1D	4.06M	5.457M
802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)	18.546M	18.921M	18M9D1D	4.38M	5.497M
802.11ax HEW20_Nss1,(MCS0)_2TX	17.886M	18.951M	19M0D1D	4.28M	5.377M
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	32.472M	37.721M	37M7D1D	3.14M	6.577M
802.11n HT40_Nss1,(MCS0)_1TX(Port2)	30.228M	36.162M	36M2D1D	3.14M	6.457M
802.11n HT40_Nss1,(MCS8)_2TX	32.208M	36.162M	36M2D1D	3.14M	6.597M
802.11ax HEW40_Nss1,(MCS0)_1TX(Port1)	35.508M	37.541M	37M5D1D	3.98M	6.257M
802.11ax HEW40_Nss1,(MCS0)_1TX(Port2)	33.792M	37.541M	37M5D1D	4.02M	6.237M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.224M	37.661M	37M7D1D	4.04M	6.077M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	52.008M	75.082M	75M1D1D	3.14M	11.174M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	62.304M	75.082M	75M1D1D	3.16M	11.274M
802.11ac VHT80_Nss1,(MCS0)_2TX	64.944M	75.202M	75M2D1D	3.14M	11.454M
802.11ax HEW80_Nss1,(MCS0)_1TX(Port1)	69.96M	76.762M	76M8D1D	4.1M	8.676M
802.11ax HEW80_Nss1,(MCS0)_1TX(Port2)	71.28M	76.642M	76M6D1D	3.94M	9.595M
802.11ax HEW80_Nss1,(MCS0)_2TX	74.976M	76.762M	76M8D1D	4.04M	9.795M

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)_1TX(Port1)	-	-	-	-	-	-
5180MHz	Pass	Inf	35.112M	17.283M		
5200MHz	Pass	Inf	23.628M	16.729M		
5240MHz	Pass	Inf	22.77M	16.676M		
5260MHz	Pass	Inf	23.1M	16.676M		
5300MHz	Pass	Inf	23.232M	16.676M		
5320MHz	Pass	Inf	23.232M	16.756M		
5500MHz	Pass	Inf	23.364M	16.729M		
5580MHz	Pass	Inf	23.562M	16.676M		
5700MHz	Pass	Inf	23.166M	16.729M		
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.875M	13.448M		
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	5.237M		
5745MHz	Pass	500k	15.444M	16.676M		
5785MHz	Pass	500k	15.114M	16.729M		
5825MHz	Pass	500k	14.718M	16.703M		
802.11a_Nss1,(6Mbps)_1TX(Port2)	-	-	-	-	-	-
5180MHz	Pass	Inf			23.496M	16.703M
5200MHz	Pass	Inf			22.572M	16.65M
5240MHz	Pass	Inf			22.638M	16.597M
5260MHz	Pass	Inf			22.11M	16.597M
5300MHz	Pass	Inf			23.1M	16.597M
5320MHz	Pass	Inf			23.43M	16.624M
5500MHz	Pass	Inf			22.902M	16.65M
5580MHz	Pass	Inf			22.638M	16.624M
5700MHz	Pass	Inf			23.166M	16.624M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf			16.905M	13.433M
5720MHz Straddle 5.725-5.85GHz	Pass	500k			3.1M	5.357M
5745MHz	Pass	500k			15.114M	16.624M
5785MHz	Pass	500k			15.114M	16.624M
5825MHz	Pass	500k			13.464M	16.676M
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-
5180MHz	Pass	Inf	23.364M	17.811M		
5200MHz	Pass	Inf	23.562M	17.781M		
5240MHz	Pass	Inf	23.166M	17.751M		
5260MHz	Pass	Inf	23.298M	17.781M		
5300MHz	Pass	Inf	23.496M	17.721M		
5320MHz	Pass	Inf	23.1M	17.781M		
5500MHz	Pass	Inf	23.43M	17.751M		
5580MHz	Pass	Inf	23.298M	17.781M		
5700MHz	Pass	Inf	24.09M	17.781M		
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.205M	13.928M		
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.86M	5.537M		
5745MHz	Pass	500k	13.2M	17.751M		
5785MHz	Pass	500k	15.246M	17.781M		
5825MHz	Pass	500k	17.556M	17.781M		
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
5180MHz	Pass	Inf			23.826M	17.781M
5200MHz	Pass	Inf			23.43M	17.751M
5240MHz	Pass	Inf			23.034M	17.751M
5260MHz	Pass	Inf			23.496M	17.751M
5300MHz	Pass	Inf			23.298M	17.781M
5320MHz	Pass	Inf			23.166M	17.751M
5500MHz	Pass	Inf			23.496M	17.781M
5580MHz	Pass	Inf			23.364M	17.781M
5700MHz	Pass	Inf			23.298M	17.811M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5720MHz Straddle 5.47-5.725GHz	Pass	Inf			17.07M	13.913M
5720MHz Straddle 5.725-5.85GHz	Pass	500k			3.76M	5.517M
5745MHz	Pass	500k			15.642M	17.751M
5785MHz	Pass	500k			12.672M	17.781M
5825MHz	Pass	500k			17.556M	17.781M
802.11n HT20_Nss1,(MCS8)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	24.288M	17.781M	23.76M	17.781M
5200MHz	Pass	Inf	24.024M	17.781M	23.232M	17.751M
5240MHz	Pass	Inf	23.232M	17.751M	23.166M	17.751M
5260MHz	Pass	Inf	23.232M	17.781M	23.166M	17.751M
5300MHz	Pass	Inf	23.562M	17.781M	23.628M	17.721M
5320MHz	Pass	Inf	24.156M	17.811M	23.496M	17.751M
5500MHz	Pass	Inf	23.694M	17.811M	23.298M	17.781M
5580MHz	Pass	Inf	24.024M	17.841M	23.1M	17.721M
5700MHz	Pass	Inf	23.496M	17.781M	23.496M	17.781M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.175M	13.913M	16.89M	13.898M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	5.717M	3.78M	5.557M
5745MHz	Pass	500k	17.556M	17.811M	16.236M	17.751M
5785MHz	Pass	500k	12.54M	17.781M	15.642M	17.751M
5825MHz	Pass	500k	13.794M	17.781M	15.378M	17.721M
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-
5190MHz	Pass	Inf	43.164M	36.162M		
5230MHz	Pass	Inf	45.012M	36.222M		
5270MHz	Pass	Inf	47.388M	36.342M		
5310MHz	Pass	Inf	43.428M	36.162M		
5510MHz	Pass	Inf	43.032M	36.102M		
5550MHz	Pass	Inf	43.824M	36.102M		
5670MHz	Pass	Inf	43.56M	36.162M		
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.89M	32.884M		
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	6.577M		
5755MHz	Pass	500k	30.492M	36.162M		
5795MHz	Pass	500k	32.472M	36.162M		
802.11n HT40_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
5190MHz	Pass	Inf			43.428M	36.162M
5230MHz	Pass	Inf			44.748M	36.222M
5270MHz	Pass	Inf			44.616M	36.162M
5310MHz	Pass	Inf			43.164M	36.162M
5510MHz	Pass	Inf			43.56M	36.222M
5550MHz	Pass	Inf			43.692M	36.162M
5670MHz	Pass	Inf			43.692M	36.102M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf			36.75M	32.814M
5710MHz Straddle 5.725-5.85GHz	Pass	500k			3.14M	6.457M
5755MHz	Pass	500k			30.228M	36.162M
5795MHz	Pass	500k			28.512M	36.102M
802.11n HT40_Nss1,(MCS8)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	42.108M	36.162M	42.504M	36.102M
5230MHz	Pass	Inf	45.276M	36.162M	44.484M	36.222M
5270MHz	Pass	Inf	45.276M	36.222M	42.636M	36.042M
5310MHz	Pass	Inf	43.428M	36.162M	42.636M	35.982M
5510MHz	Pass	Inf	43.56M	36.162M	42.504M	35.982M
5550MHz	Pass	Inf	43.824M	36.162M	42.108M	36.102M
5670MHz	Pass	Inf	42.768M	36.162M	42.504M	36.042M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.33M	32.814M	36.96M	32.779M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.24M	9.975M	3.14M	6.597M
5755MHz	Pass	500k	31.284M	36.102M	29.436M	35.922M
5795MHz	Pass	500k	29.04M	36.162M	32.208M	36.042M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-
5210MHz	Pass	Inf	86.328M	75.082M		
5290MHz	Pass	Inf	83.424M	74.963M		
5530MHz	Pass	Inf	84.744M	75.082M		
5610MHz	Pass	Inf	86.064M	75.082M		
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	78.675M	71.889M		
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	11.174M		
5775MHz	Pass	500k	52.008M	75.082M		
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
5210MHz	Pass	Inf			85.272M	75.202M
5290MHz	Pass	Inf			86.064M	75.082M
5530MHz	Pass	Inf			83.952M	74.963M
5610MHz	Pass	Inf			85.272M	75.082M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf			77.85M	71.889M
5690MHz Straddle 5.725-5.85GHz	Pass	500k			3.16M	11.274M
5775MHz	Pass	500k			62.304M	75.082M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	87.12M	75.082M	86.064M	75.082M
5290MHz	Pass	Inf	83.952M	74.963M	83.688M	75.082M
5530MHz	Pass	Inf	84.744M	75.082M	84.744M	75.082M
5610MHz	Pass	Inf	85.536M	75.082M	85.008M	75.082M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	77.625M	71.814M	79.5M	71.814M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.2M	11.454M	3.14M	11.534M
5775MHz	Pass	500k	52.8M	75.202M	64.944M	74.963M
802.11ac VHT160_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.52M	75.882M		
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.16M	75.882M		
5570MHz	Pass	Inf	164.208M	153.043M		
802.11ac VHT160_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf			82.08M	75.962M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf			82.16M	75.802M
5570MHz	Pass	Inf			163.68M	153.283M
802.11ac VHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.84M	75.802M	81.68M	75.722M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.24M	75.802M	81.92M	75.802M
5570MHz	Pass	Inf	163.152M	153.043M	163.68M	153.283M
802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-
5180MHz	Pass	Inf	23.892M	18.891M		
5200MHz	Pass	Inf	23.364M	18.891M		
5240MHz	Pass	Inf	23.496M	18.891M		
5260MHz	Pass	Inf	22.77M	18.891M		
5300MHz	Pass	Inf	23.496M	18.891M		
5320MHz	Pass	Inf	23.298M	18.921M		
5500MHz	Pass	Inf	23.826M	18.921M		
5580MHz	Pass	Inf	23.826M	18.921M		
5700MHz	Pass	Inf	23.694M	18.921M		
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.22M	14.468M		
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.06M	5.457M		
5745MHz	Pass	500k	17.886M	18.891M		
5785MHz	Pass	500k	16.5M	18.921M		
5825MHz	Pass	500k	13.398M	18.921M		
802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
5180MHz	Pass	Inf			24.156M	18.921M
5200MHz	Pass	Inf			22.506M	18.921M
5240MHz	Pass	Inf			23.76M	18.891M
5260MHz	Pass	Inf			23.166M	18.891M

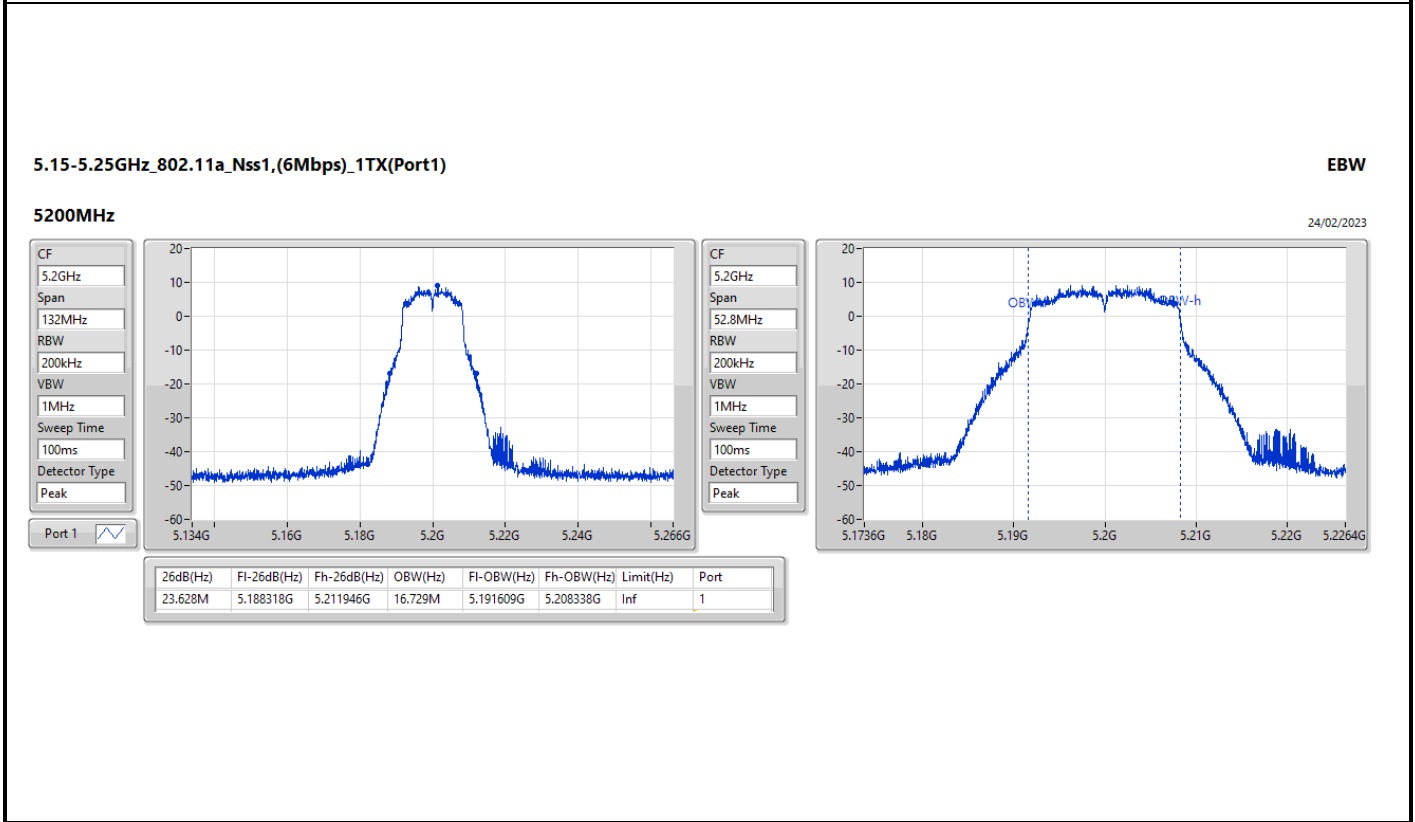
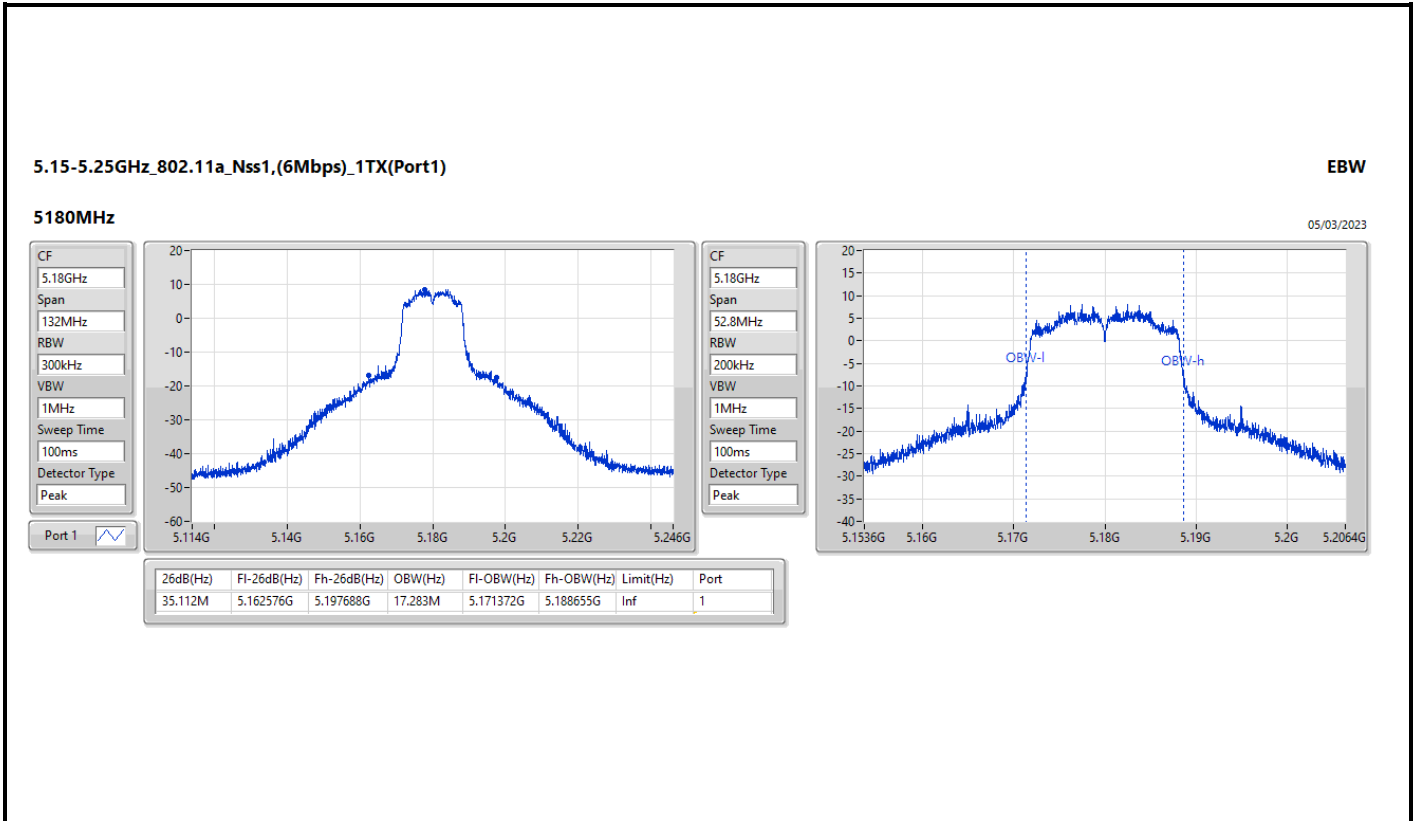


Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5300MHz	Pass	Inf			23.694M	18.921M
5320MHz	Pass	Inf			23.628M	18.921M
5500MHz	Pass	Inf			24.024M	18.921M
5580MHz	Pass	Inf			22.704M	18.921M
5700MHz	Pass	Inf			24.288M	18.891M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf			16.815M	14.438M
5720MHz Straddle 5.725-5.85GHz	Pass	500k			4.38M	5.497M
5745MHz	Pass	500k			18.546M	18.891M
5785MHz	Pass	500k			16.434M	18.921M
5825MHz	Pass	500k			14.652M	18.921M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	24.222M	18.921M	23.298M	18.921M
5200MHz	Pass	Inf	22.638M	18.921M	23.232M	18.891M
5240MHz	Pass	Inf	22.572M	18.921M	23.628M	18.921M
5260MHz	Pass	Inf	24.024M	18.891M	22.836M	18.891M
5300MHz	Pass	Inf	23.958M	18.921M	23.43M	18.891M
5320MHz	Pass	Inf	23.826M	18.951M	23.76M	18.921M
5500MHz	Pass	Inf	23.496M	18.921M	23.628M	18.921M
5580MHz	Pass	Inf	23.232M	18.891M	23.496M	18.891M
5700MHz	Pass	Inf	23.364M	18.921M	23.826M	18.921M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.905M	14.453M	17.13M	14.423M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.28M	5.437M	4.36M	5.377M
5745MHz	Pass	500k	15.048M	18.891M	17.556M	18.921M
5785MHz	Pass	500k	17.886M	18.921M	17.754M	18.891M
5825MHz	Pass	500k	11.286M	18.921M	17.886M	18.951M
802.11ax HEW40_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-
5190MHz	Pass	Inf	42.504M	37.601M		
5230MHz	Pass	Inf	44.088M	37.661M		
5270MHz	Pass	Inf	43.428M	37.541M		
5310MHz	Pass	Inf	42.504M	37.601M		
5510MHz	Pass	Inf	42.24M	37.481M		
5550MHz	Pass	Inf	42.24M	37.601M		
5670MHz	Pass	Inf	41.844M	37.541M		
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	37.59M	33.513M		
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	6.257M		
5755MHz	Pass	500k	35.508M	37.541M		
5795MHz	Pass	500k	30.36M	37.541M		
802.11ax HEW40_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
5190MHz	Pass	Inf			43.164M	37.541M
5230MHz	Pass	Inf			42.636M	37.541M
5270MHz	Pass	Inf			44.22M	37.481M
5310MHz	Pass	Inf			42.108M	37.541M
5510MHz	Pass	Inf			42.504M	37.601M
5550MHz	Pass	Inf			43.032M	37.541M
5670MHz	Pass	Inf			42.636M	37.541M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf			36.68M	33.548M
5710MHz Straddle 5.725-5.85GHz	Pass	500k			4.02M	6.237M
5755MHz	Pass	500k			33.792M	37.541M
5795MHz	Pass	500k			32.472M	37.541M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	42.24M	37.481M	42.372M	37.541M
5230MHz	Pass	Inf	42.9M	37.541M	43.032M	37.541M
5270MHz	Pass	Inf	43.296M	37.541M	42.504M	37.541M
5310MHz	Pass	Inf	42.108M	37.541M	41.844M	37.541M
5510MHz	Pass	Inf	42.768M	37.601M	42.9M	37.541M
5550MHz	Pass	Inf	42.108M	37.541M	43.032M	37.601M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5670MHz	Pass	Inf	42.9M	37.481M	43.692M	37.481M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.995M	33.513M	36.575M	33.583M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.04M	7.036M	4.04M	6.077M
5755MHz	Pass	500k	34.848M	37.541M	35.376M	37.601M
5795MHz	Pass	500k	34.188M	37.661M	37.224M	37.601M
802.11ax HEW80_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-
5210MHz	Pass	Inf	82.896M	76.882M		
5290MHz	Pass	Inf	82.104M	76.762M		
5530MHz	Pass	Inf	83.16M	76.762M		
5610MHz	Pass	Inf	82.896M	76.762M		
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.8M	72.489M		
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.1M	8.676M		
5775MHz	Pass	500k	69.96M	76.762M		
802.11ax HEW80_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
5210MHz	Pass	Inf			85.008M	76.882M
5290MHz	Pass	Inf			82.896M	76.762M
5530MHz	Pass	Inf			82.632M	76.642M
5610MHz	Pass	Inf			83.16M	76.762M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf			76.5M	72.639M
5690MHz Straddle 5.725-5.85GHz	Pass	500k			3.94M	9.595M
5775MHz	Pass	500k			71.28M	76.642M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	83.16M	76.642M	82.896M	76.522M
5290MHz	Pass	Inf	83.952M	76.642M	82.896M	76.642M
5530MHz	Pass	Inf	85.008M	76.882M	85.008M	76.762M
5610MHz	Pass	Inf	83.688M	76.522M	83.688M	76.642M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.8M	72.564M	76.95M	72.639M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	9.855M	4.04M	9.795M
5775MHz	Pass	500k	74.976M	76.762M	66.264M	76.642M
802.11ax HEW160_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.44M	77.321M		
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.28M	77.401M		
5570MHz	Pass	Inf	165.264M	154.483M		
802.11ax HEW160_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf			81.12M	77.241M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf			81.36M	77.161M
5570MHz	Pass	Inf			163.68M	154.963M
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.44M	77.241M	81.36M	77.161M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.44M	77.321M	81.28M	77.321M
5570MHz	Pass	Inf	164.208M	154.483M	164.208M	154.963M

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

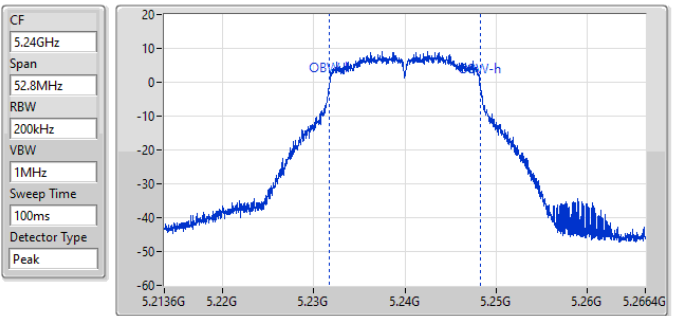
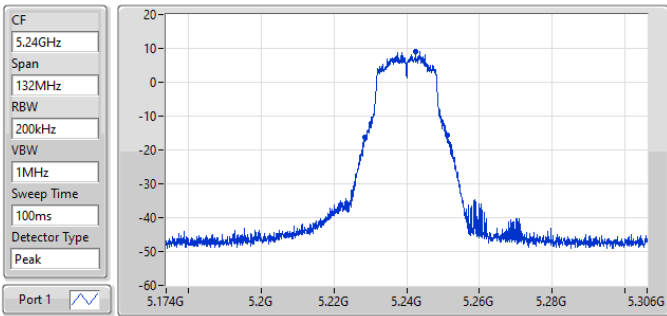


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX(Port1)

EBW

5240MHz

24/02/2023



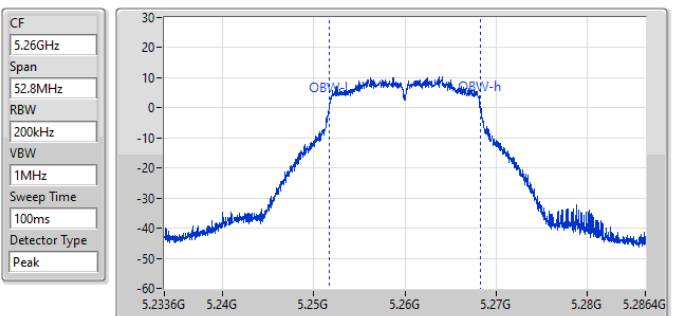
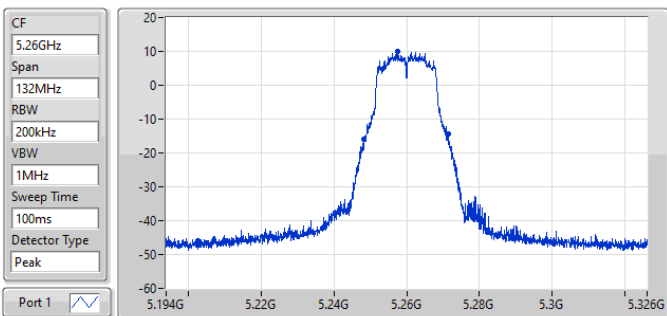
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.77M	5.22845G	5.25122G	16.676M	5.231662G	5.248338G	Inf	1

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX(Port1)

EBW

5260MHz

24/02/2023



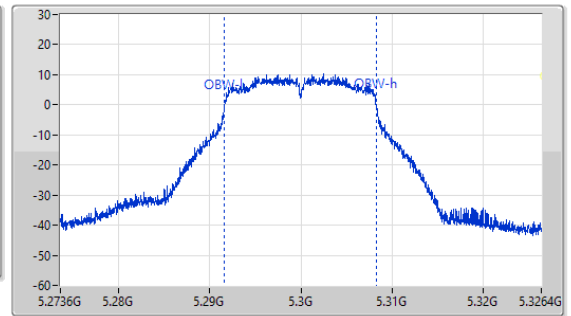
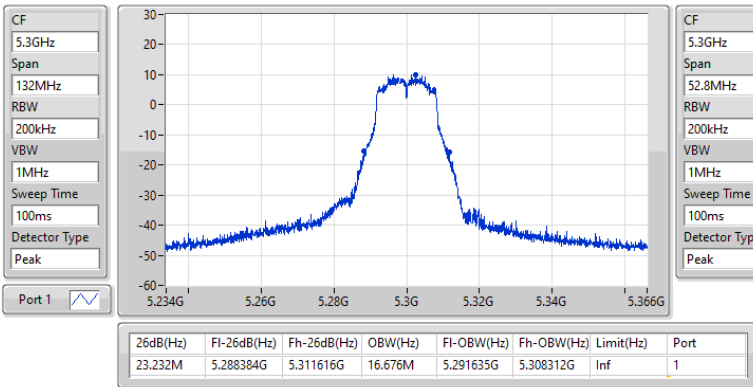
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.1M	5.248384G	5.271484G	16.676M	5.251662G	5.268338G	Inf	1

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX(Port1)

EBW

5300MHz

24/02/2023

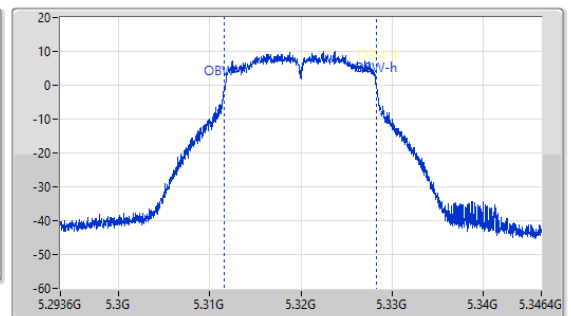
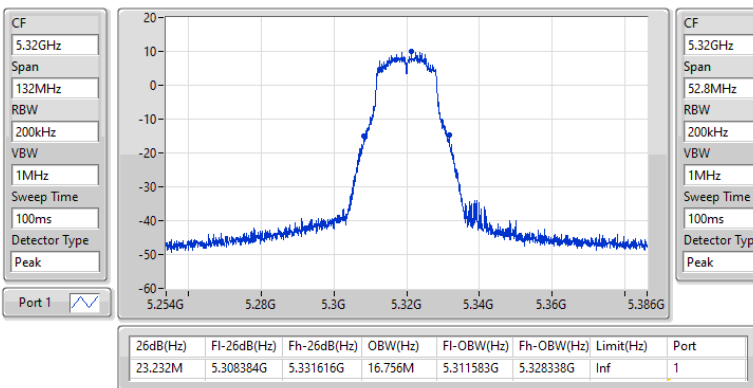


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX(Port1)

EBW

5320MHz

24/02/2023

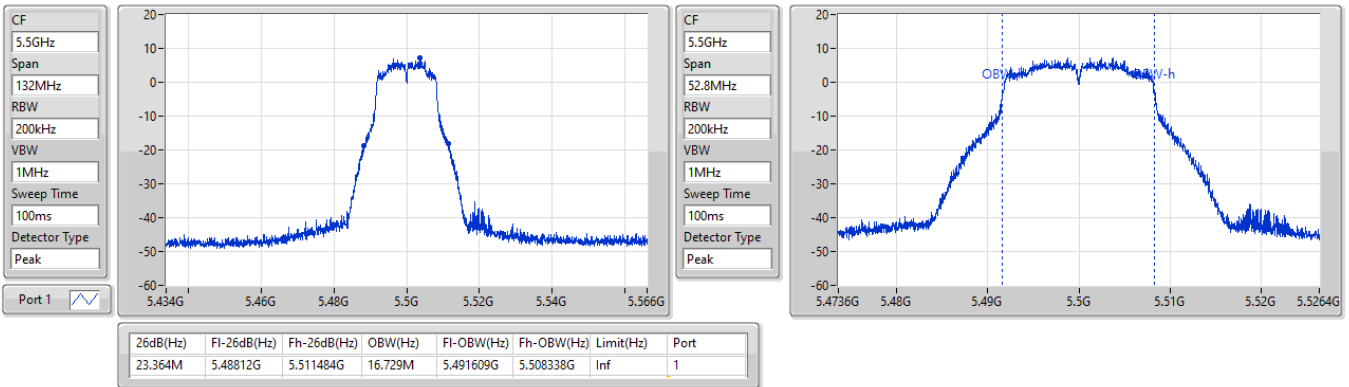


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX(Port1)

EBW

5500MHz

24/02/2023

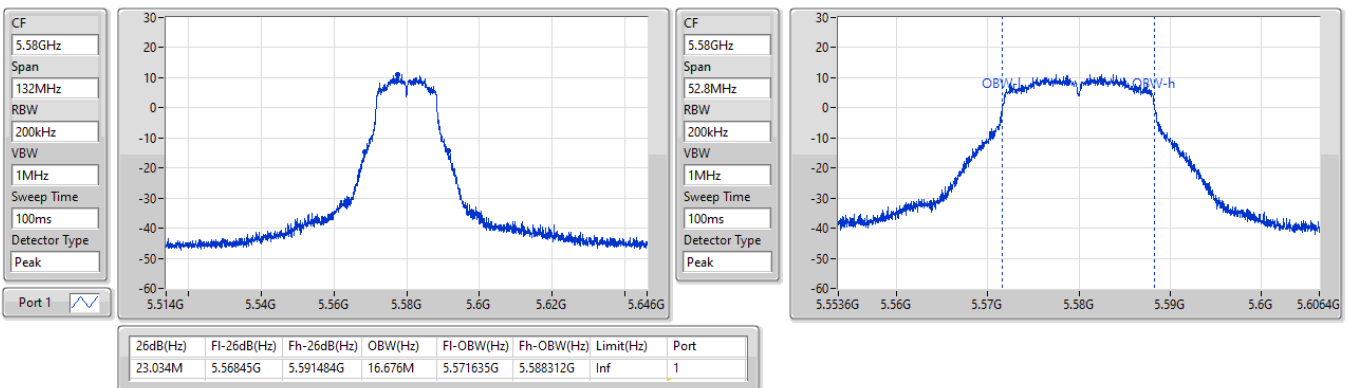


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX(Port1)

EBW

5580MHz

03/03/2023

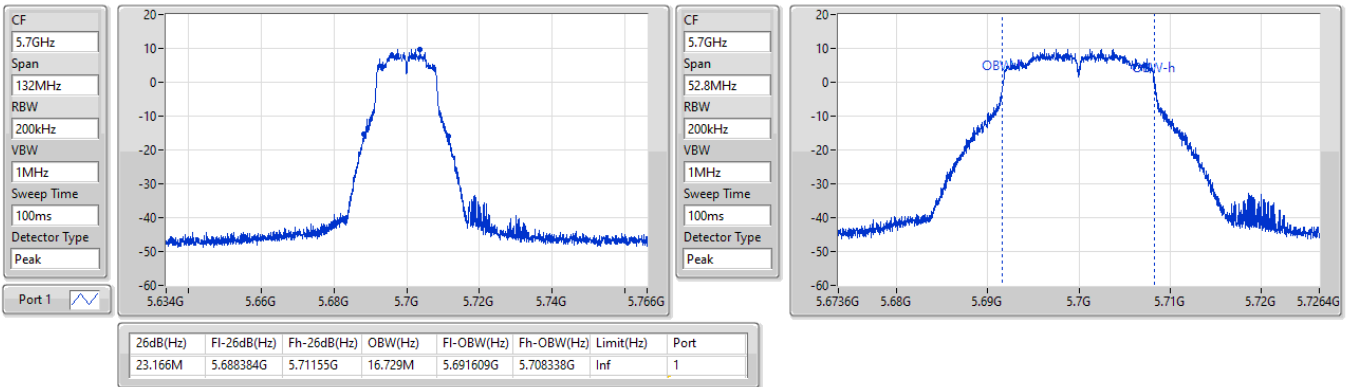


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX(Port1)

EBW

5700MHz

24/02/2023

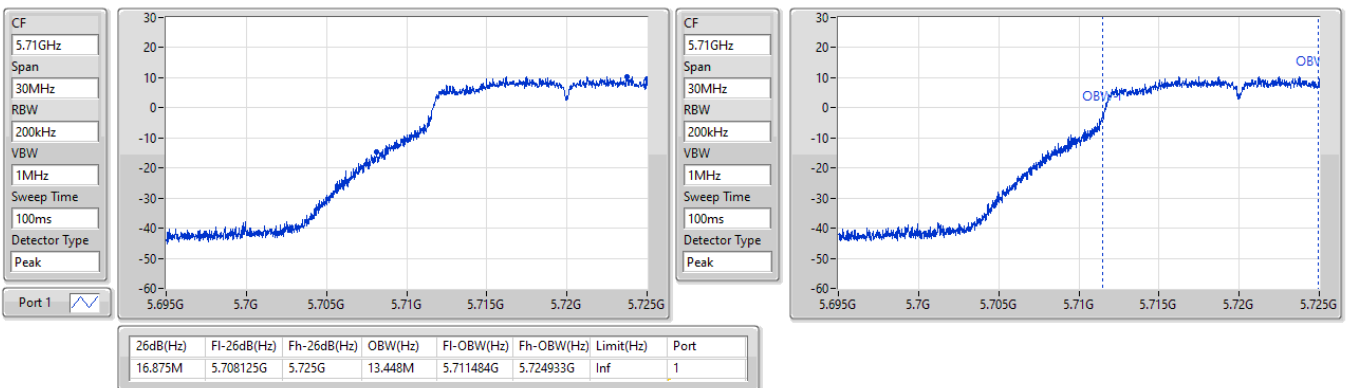


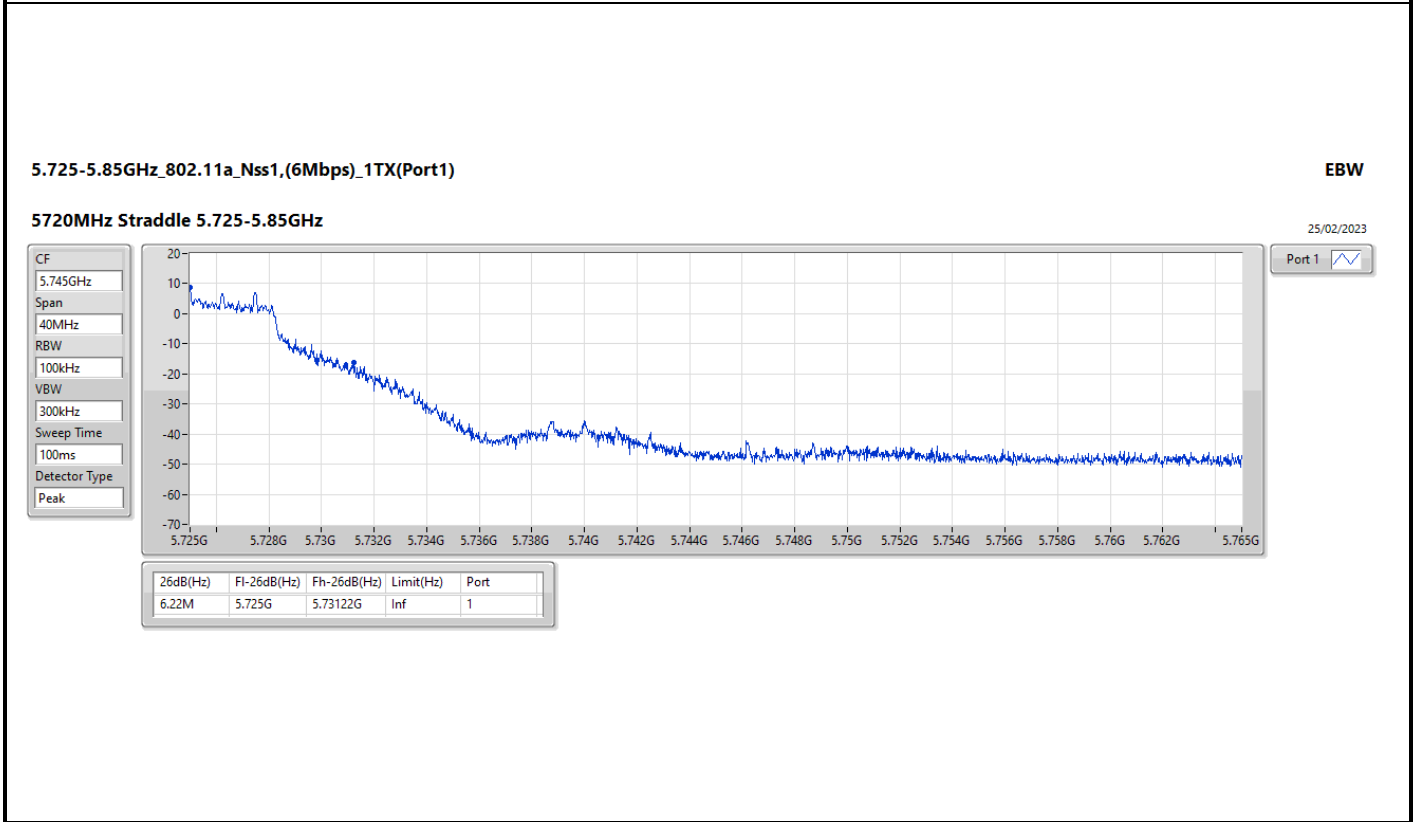
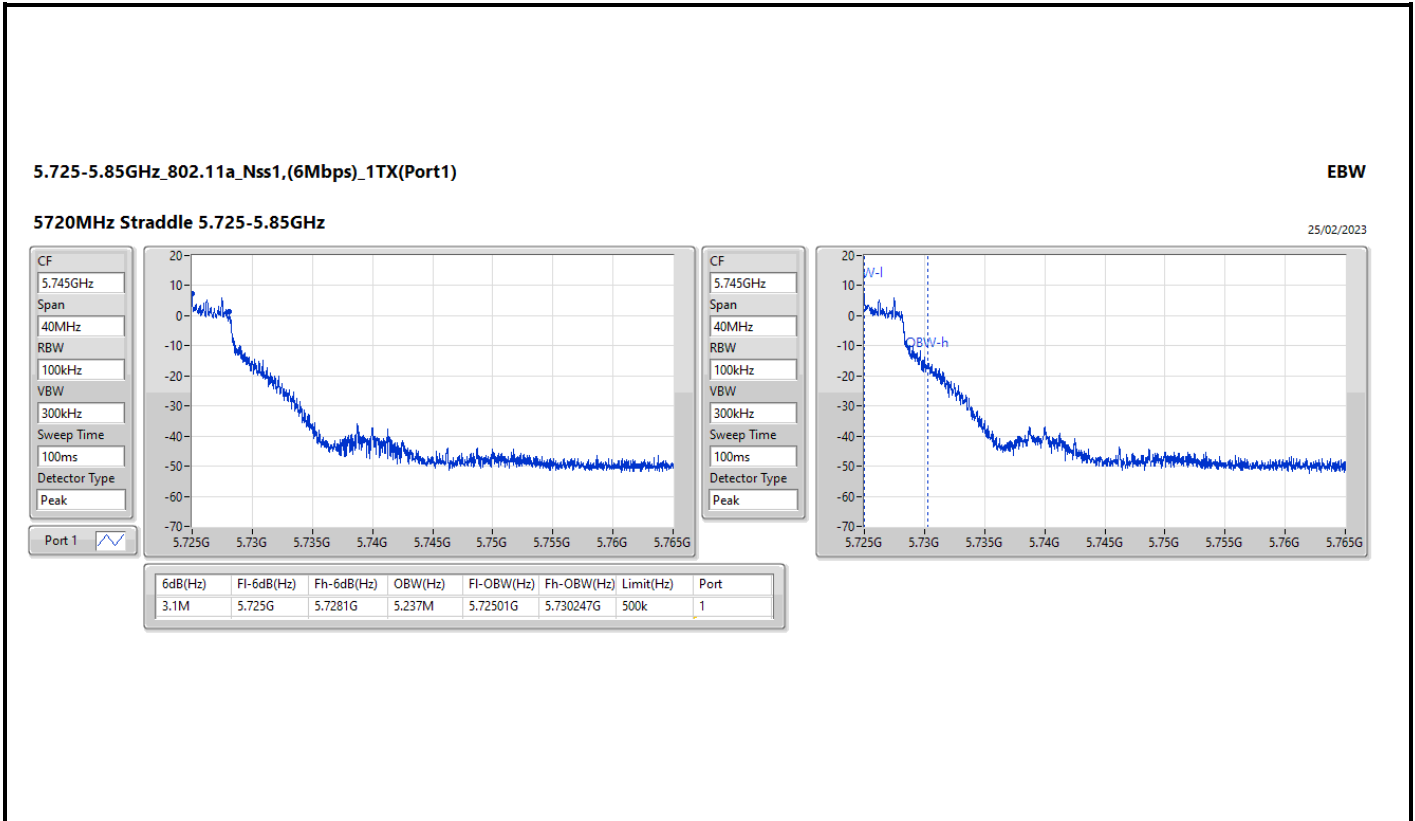
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX(Port1)

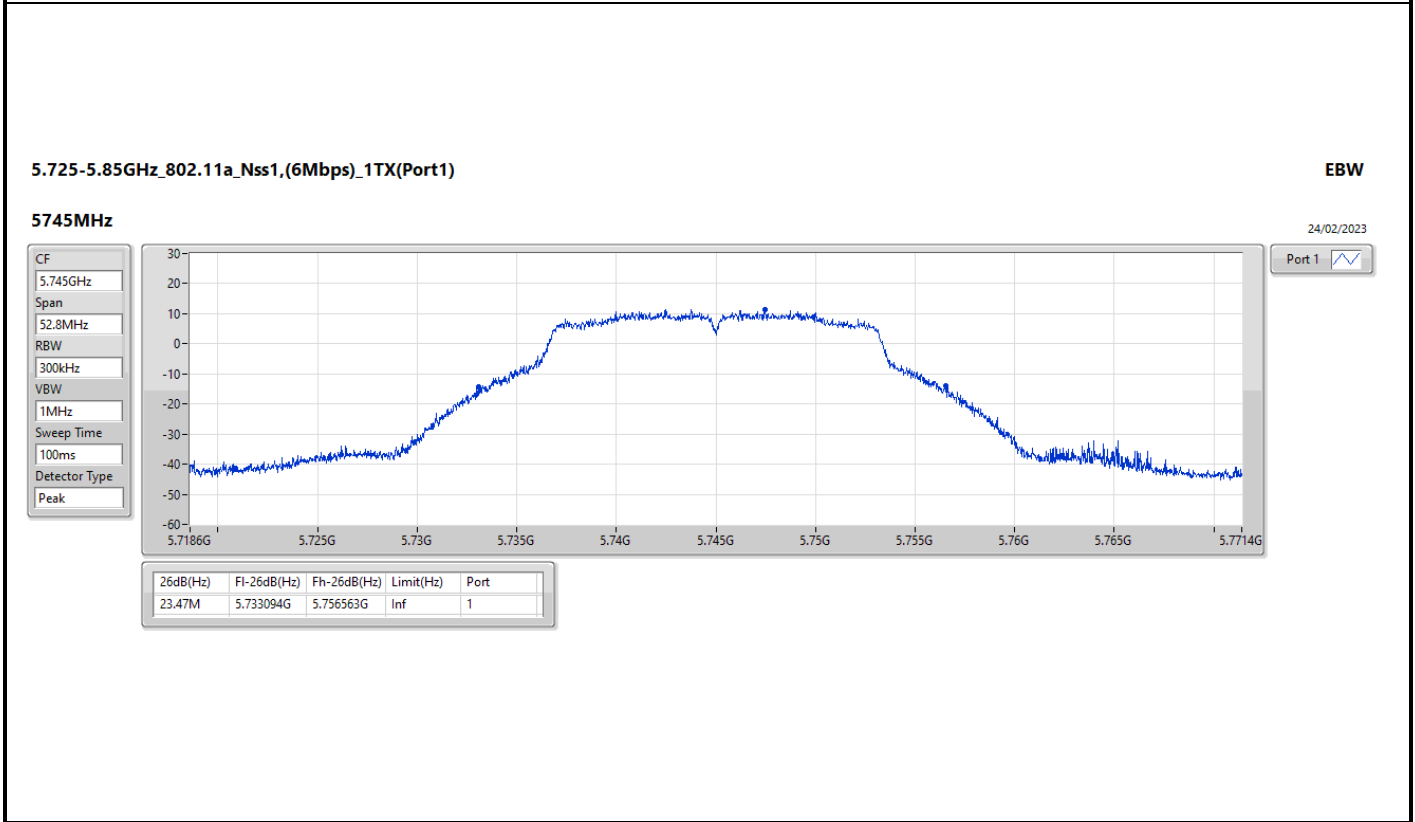
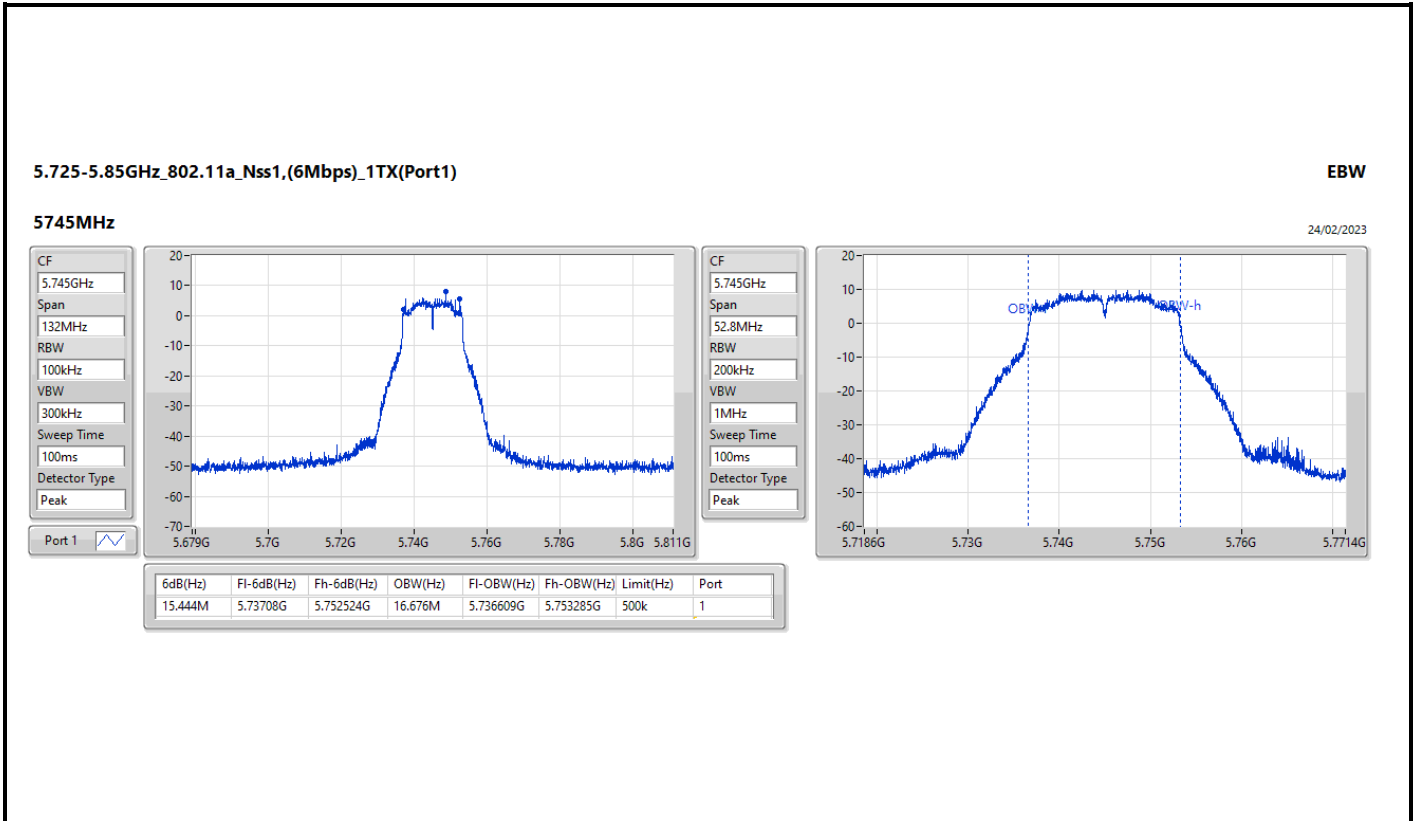
EBW

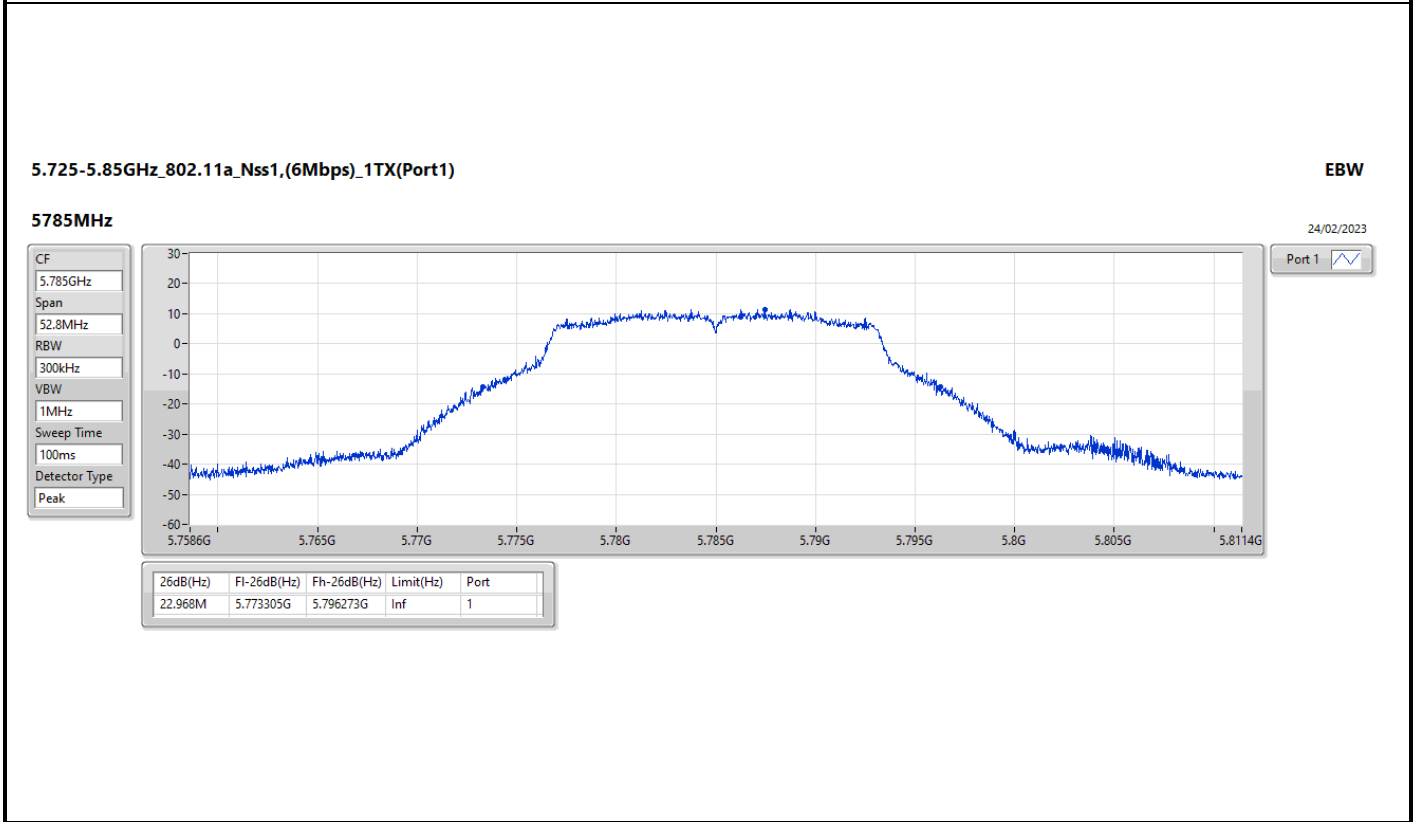
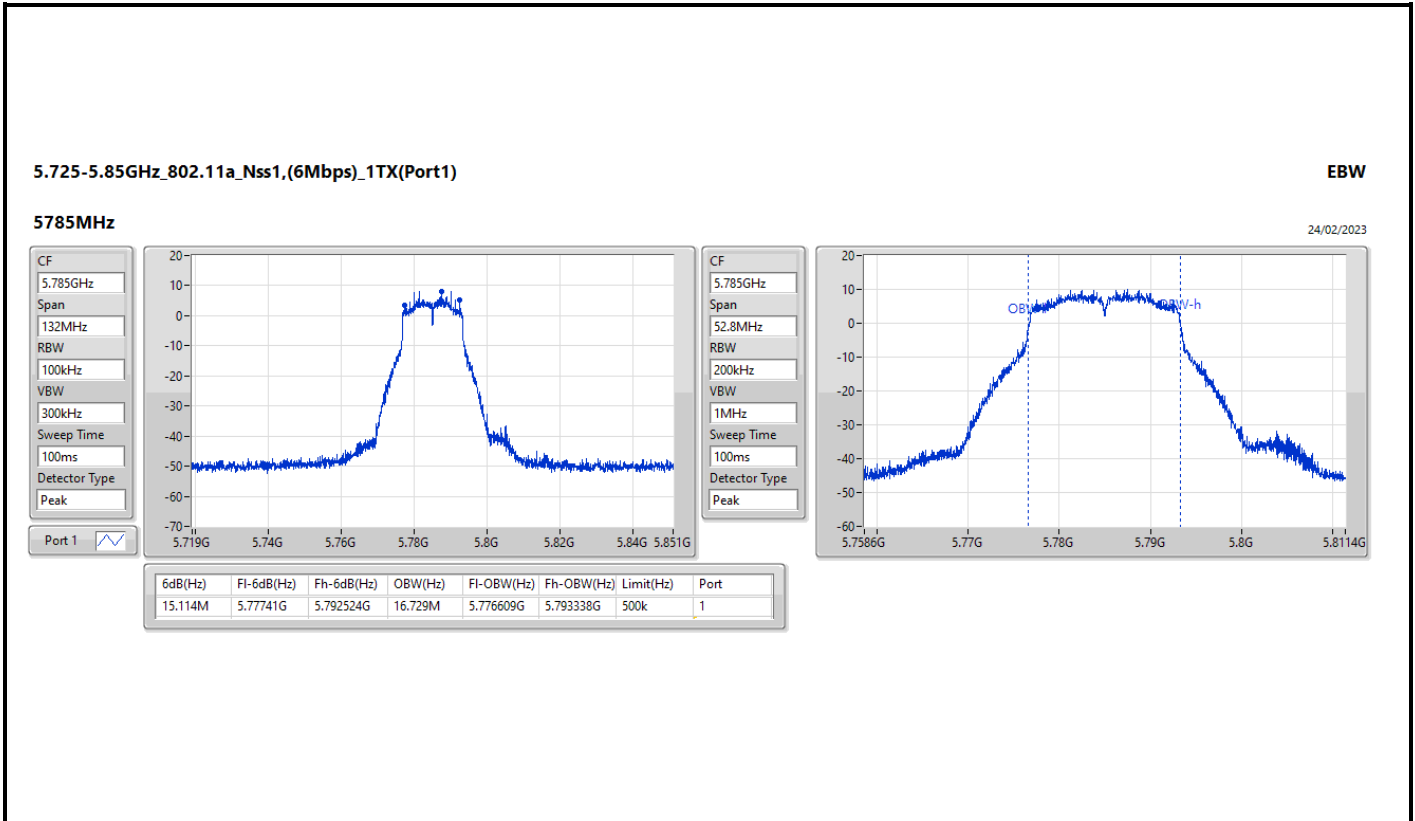
5720MHz Straddle 5.47-5.725GHz

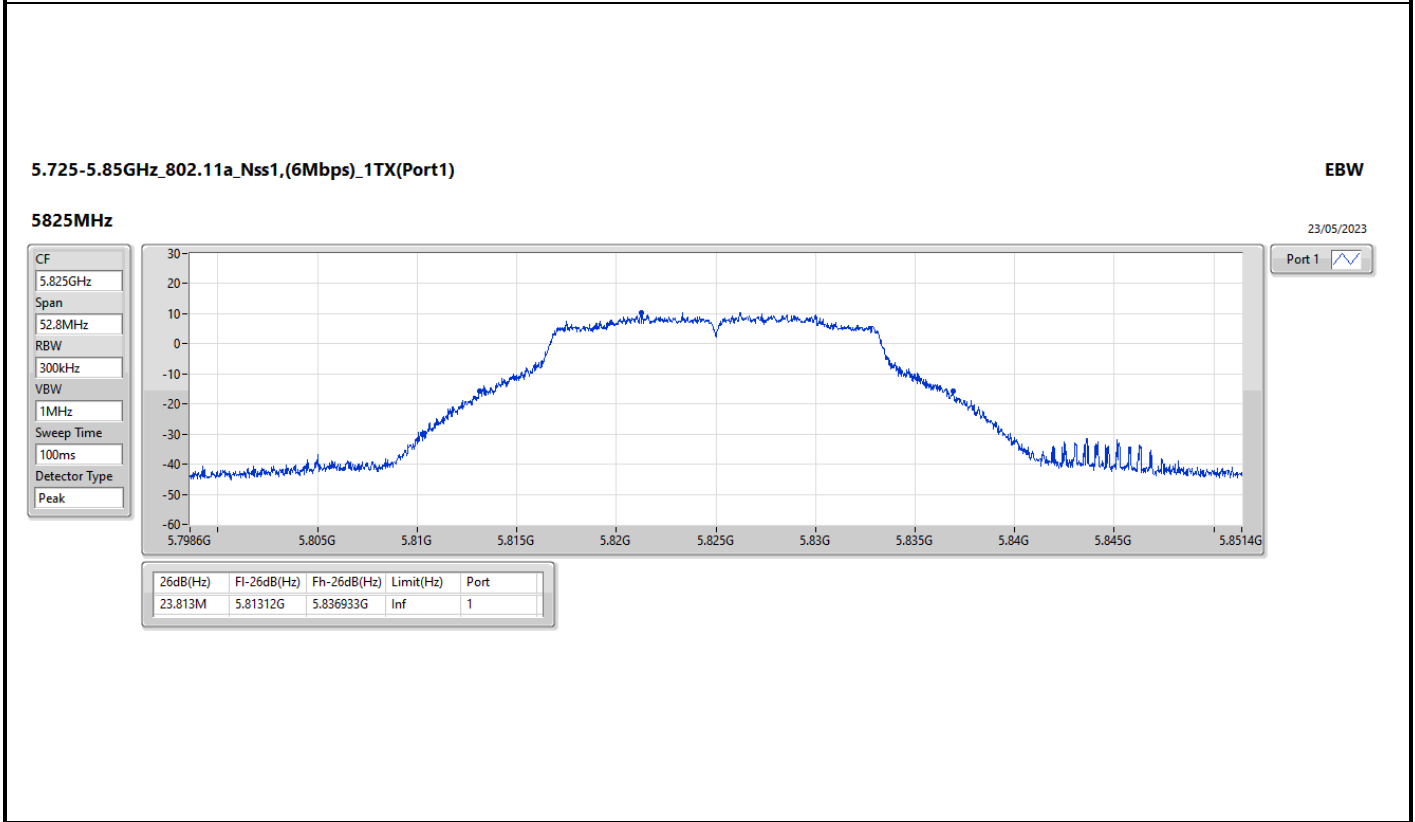
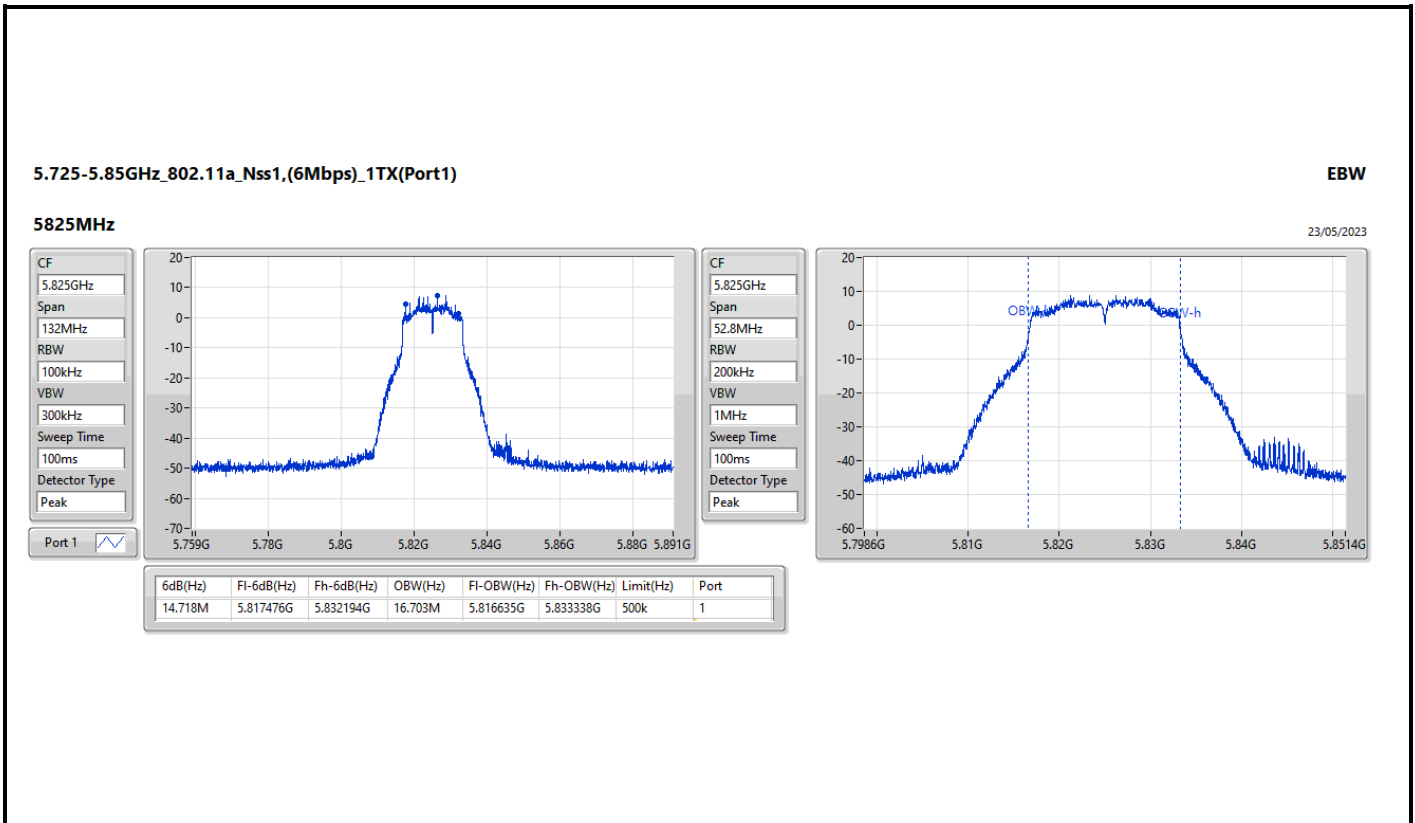
27/02/2023









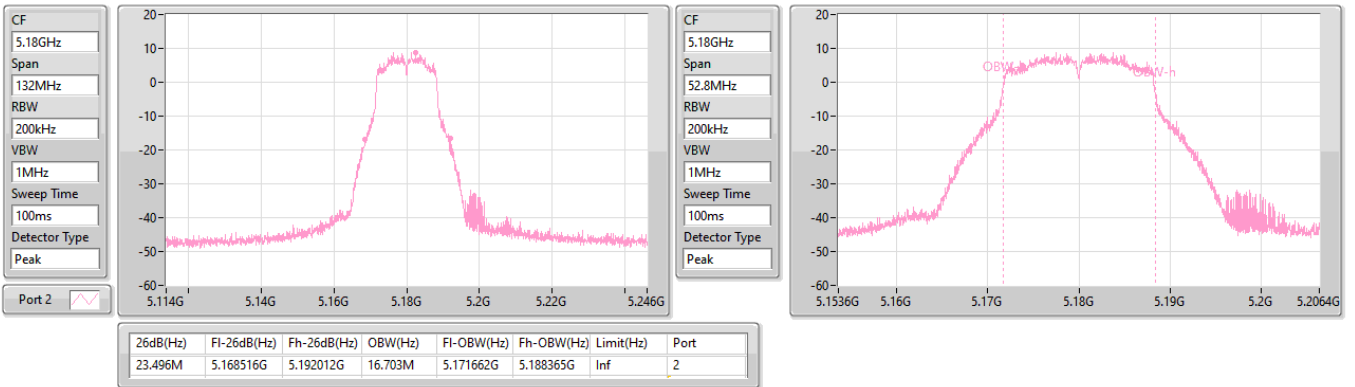


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

EBW

5180MHz

23/05/2023

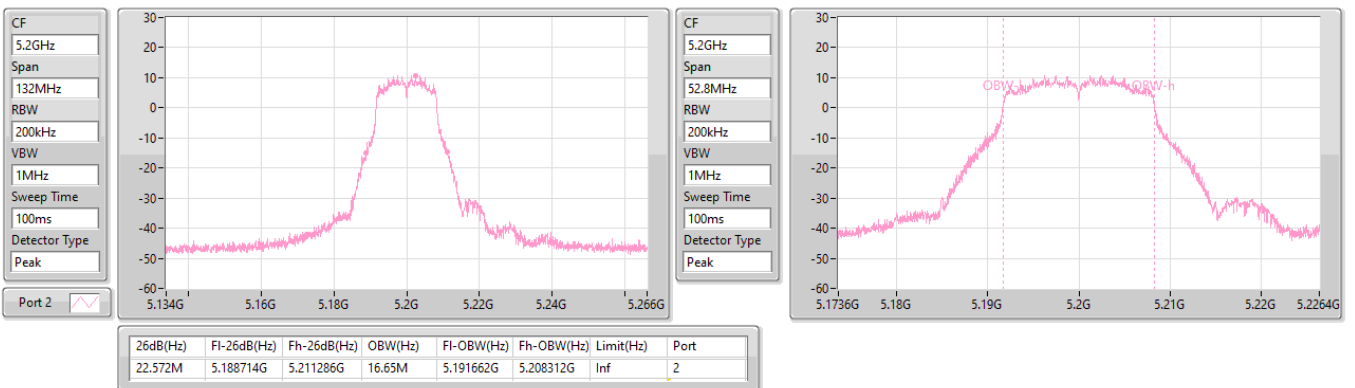


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

EBW

5200MHz

25/02/2023

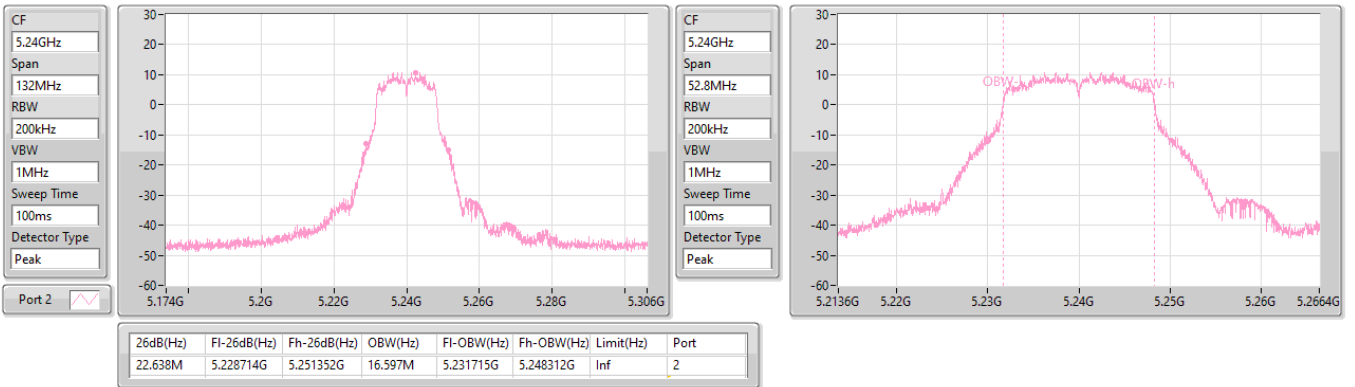


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

EBW

5240MHz

25/02/2023

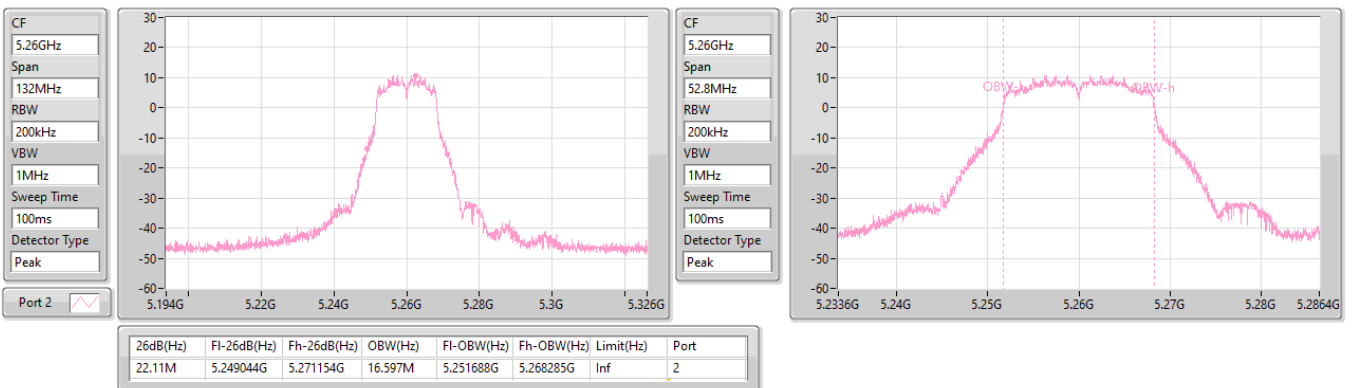


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

EBW

5260MHz

25/02/2023

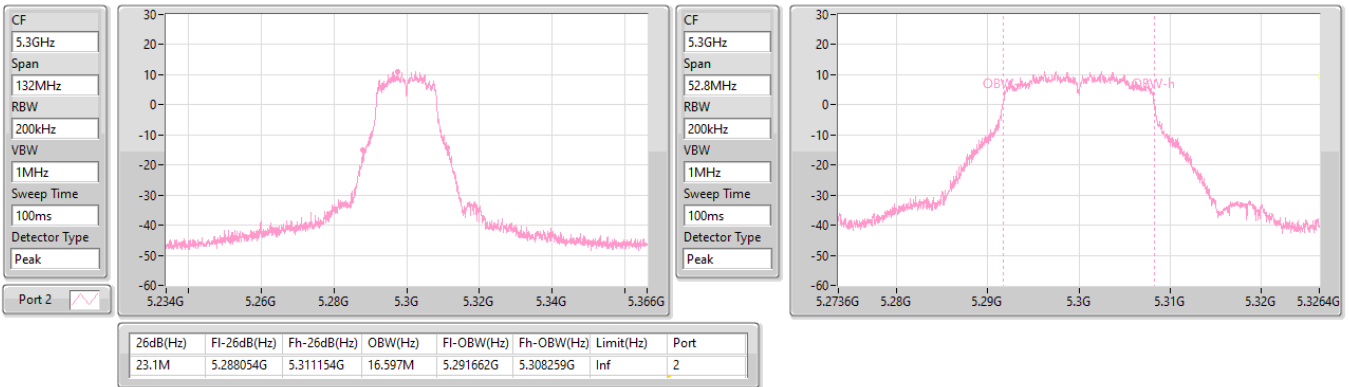


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

EBW

5300MHz

25/02/2023

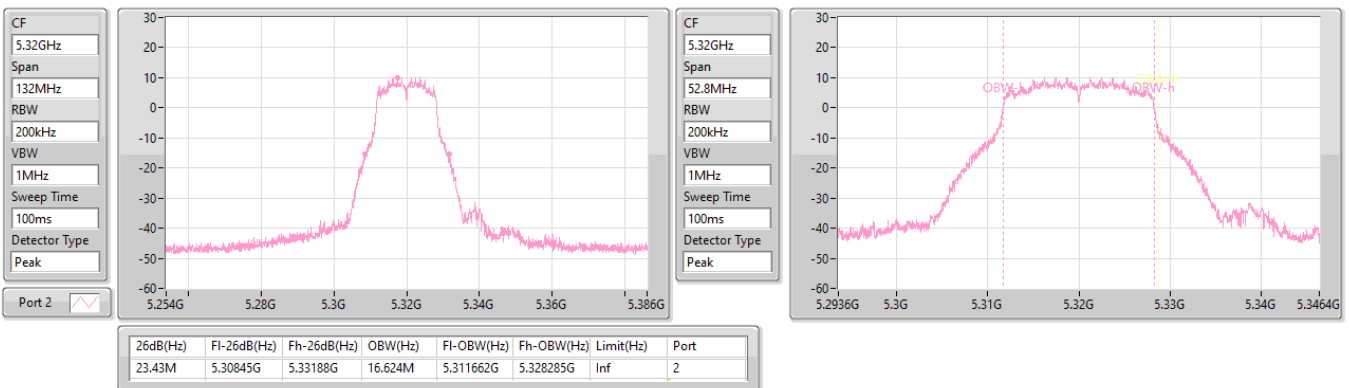


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

EBW

5320MHz

25/02/2023

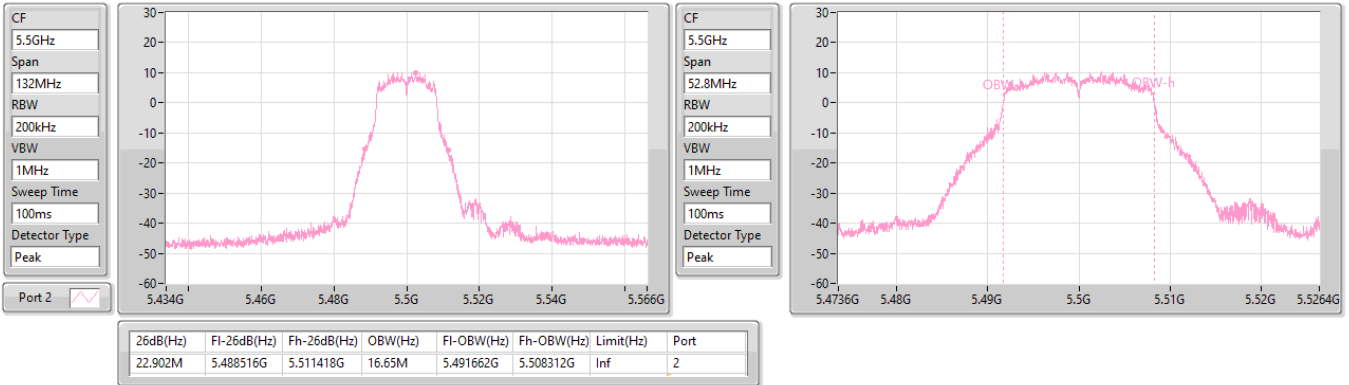


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

EBW

5500MHz

25/02/2023

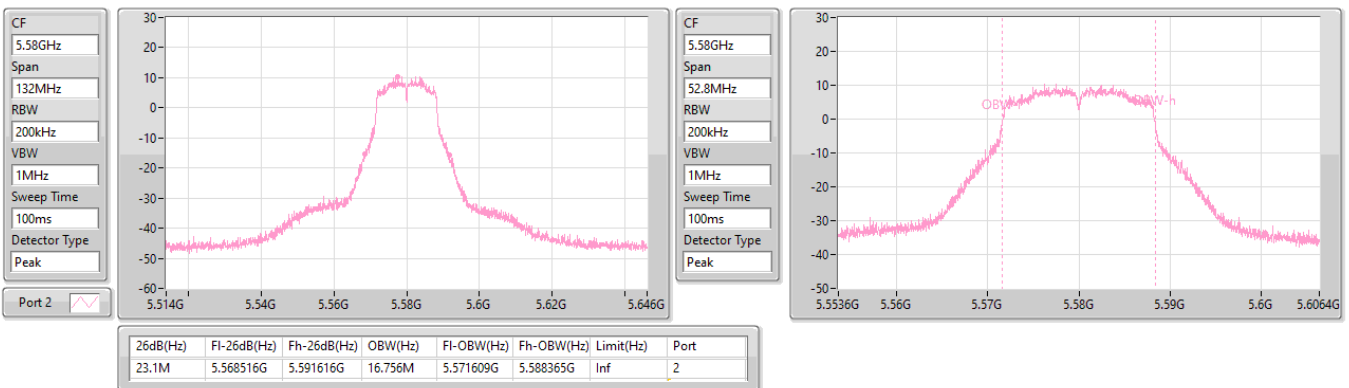


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

EBW

5580MHz

03/03/2023

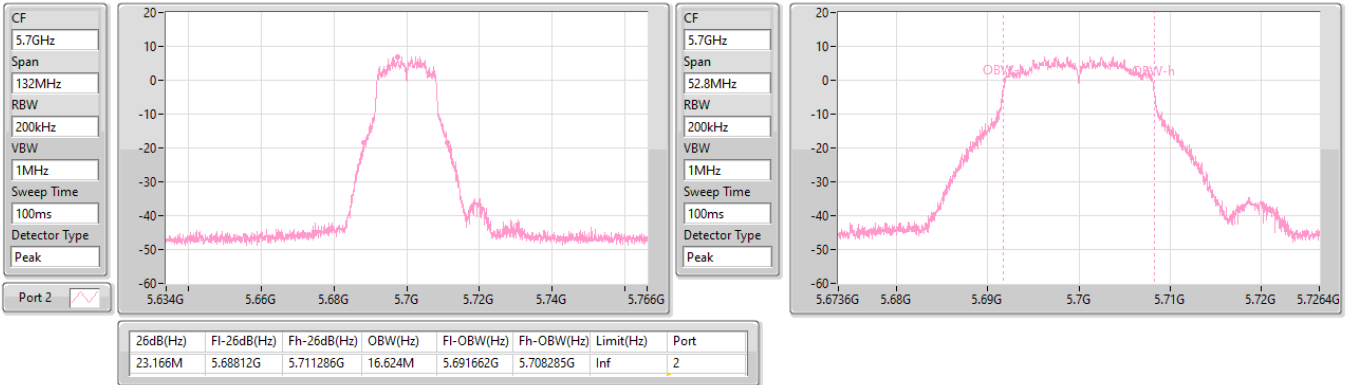


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

EBW

5700MHz

25/02/2023

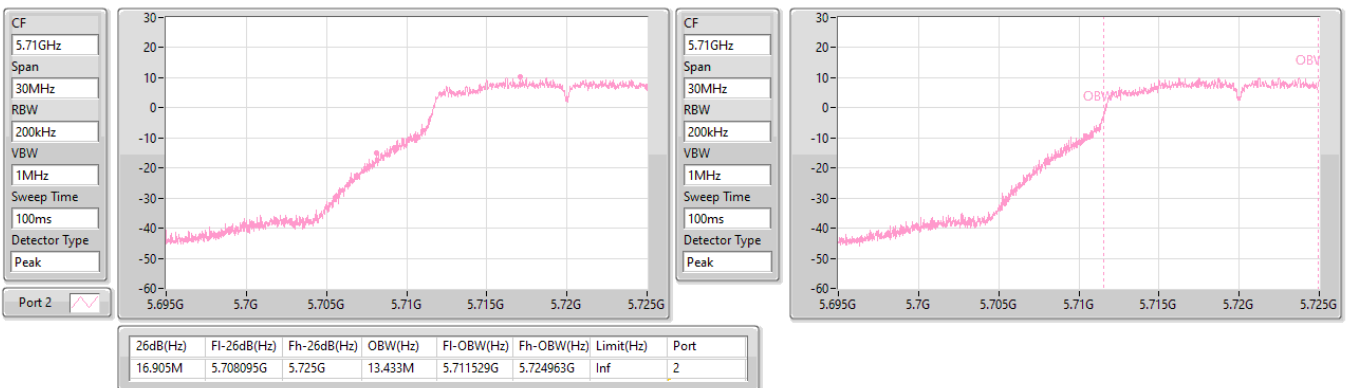


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

EBW

5720MHz Straddle 5.47-5.725GHz

27/02/2023

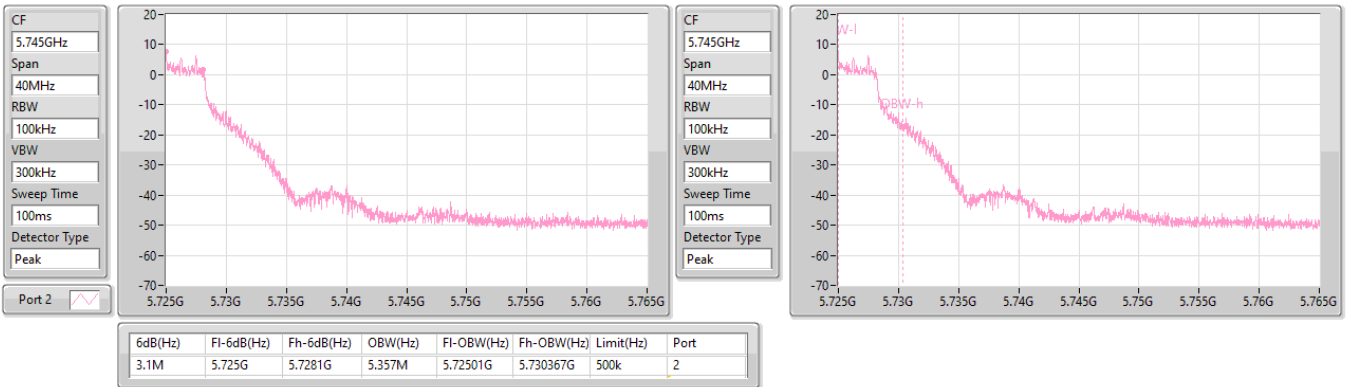


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

EBW

5720MHz Straddle 5.725-5.85GHz

25/02/2023

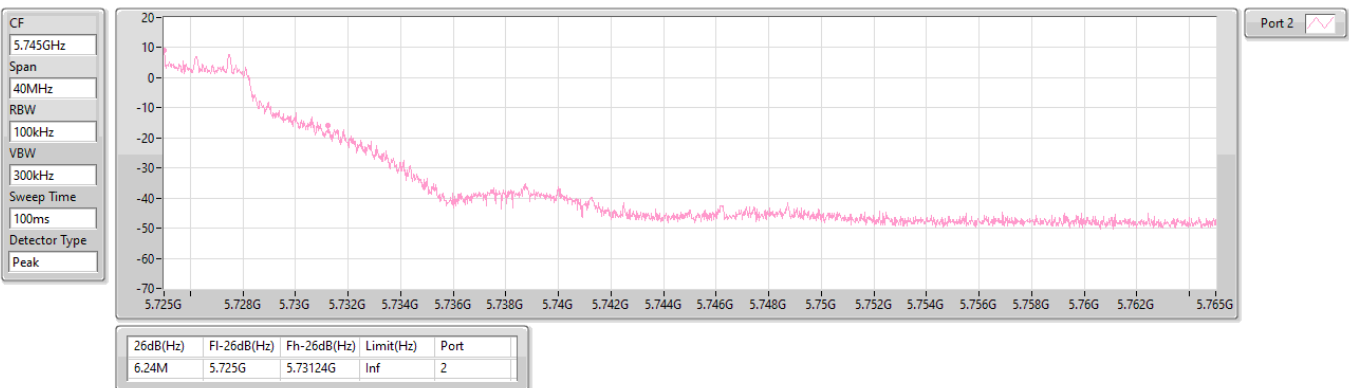


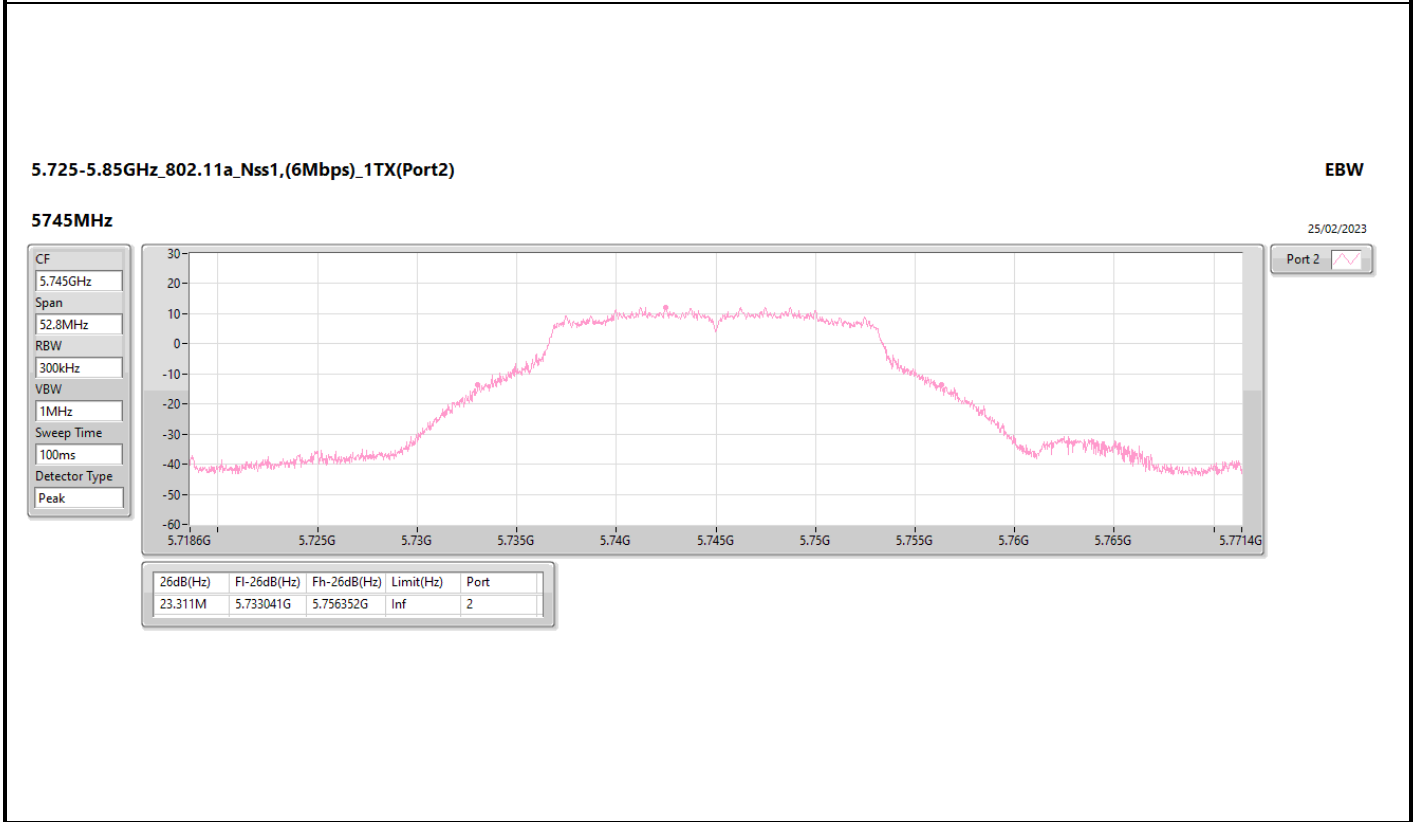
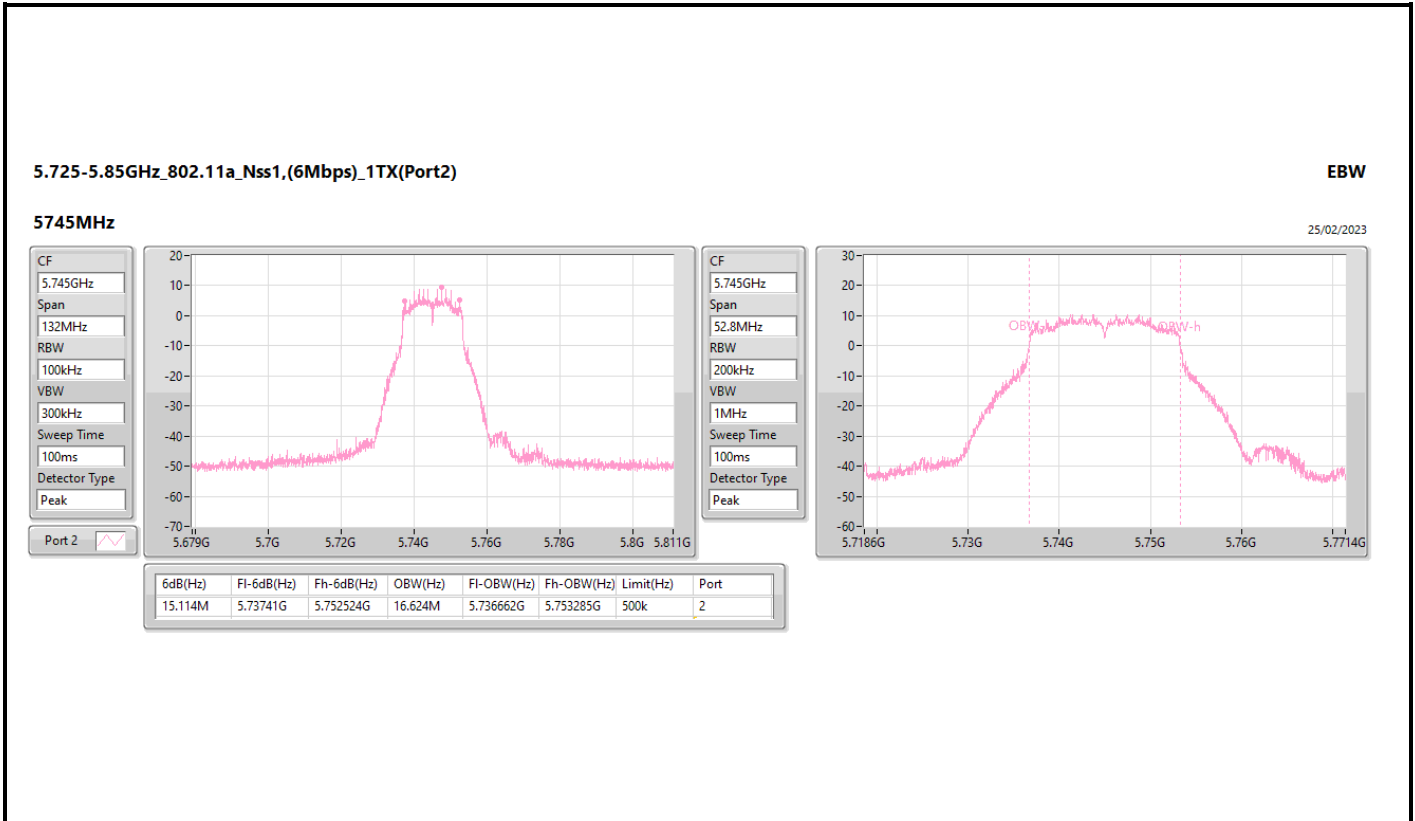
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX(Port2)

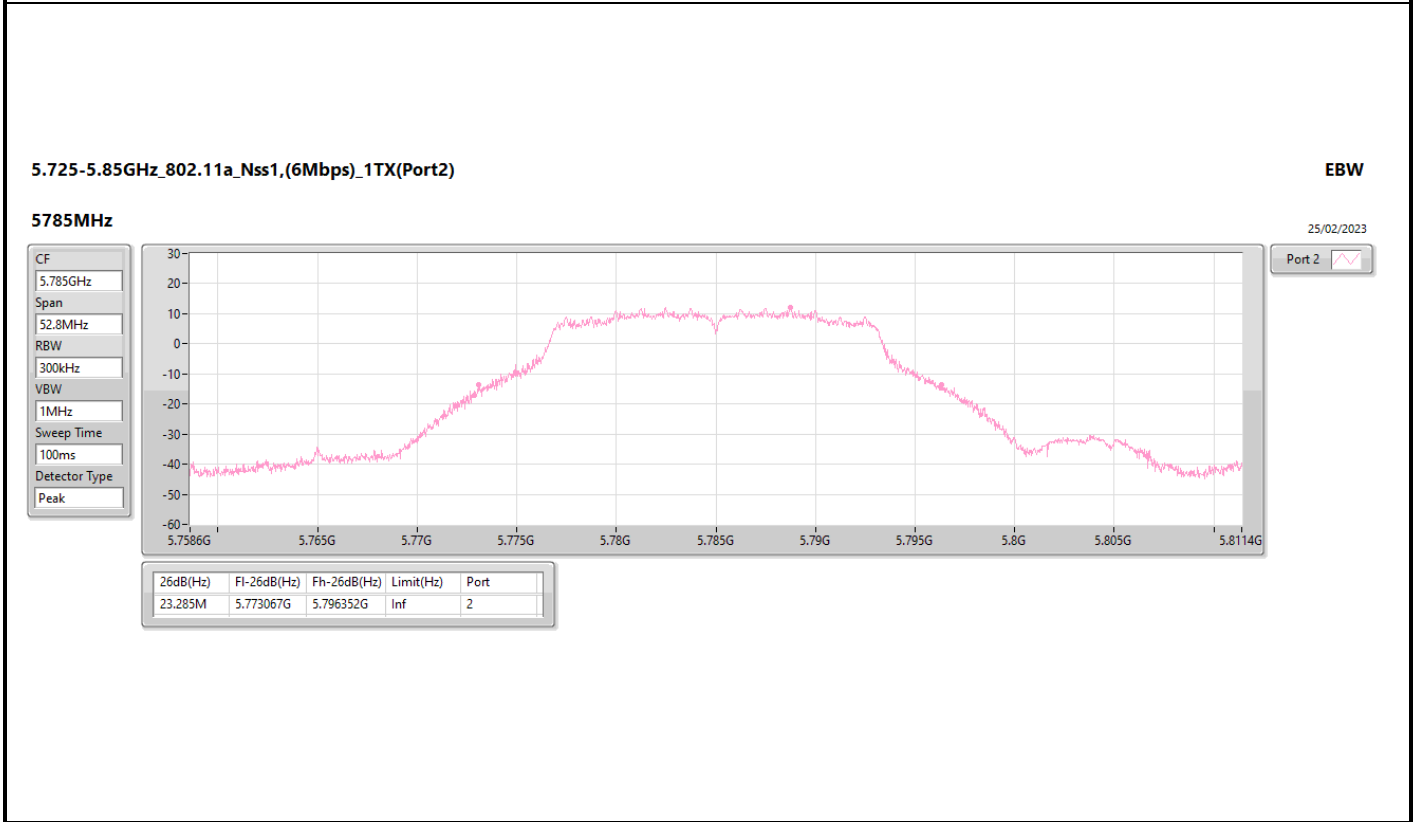
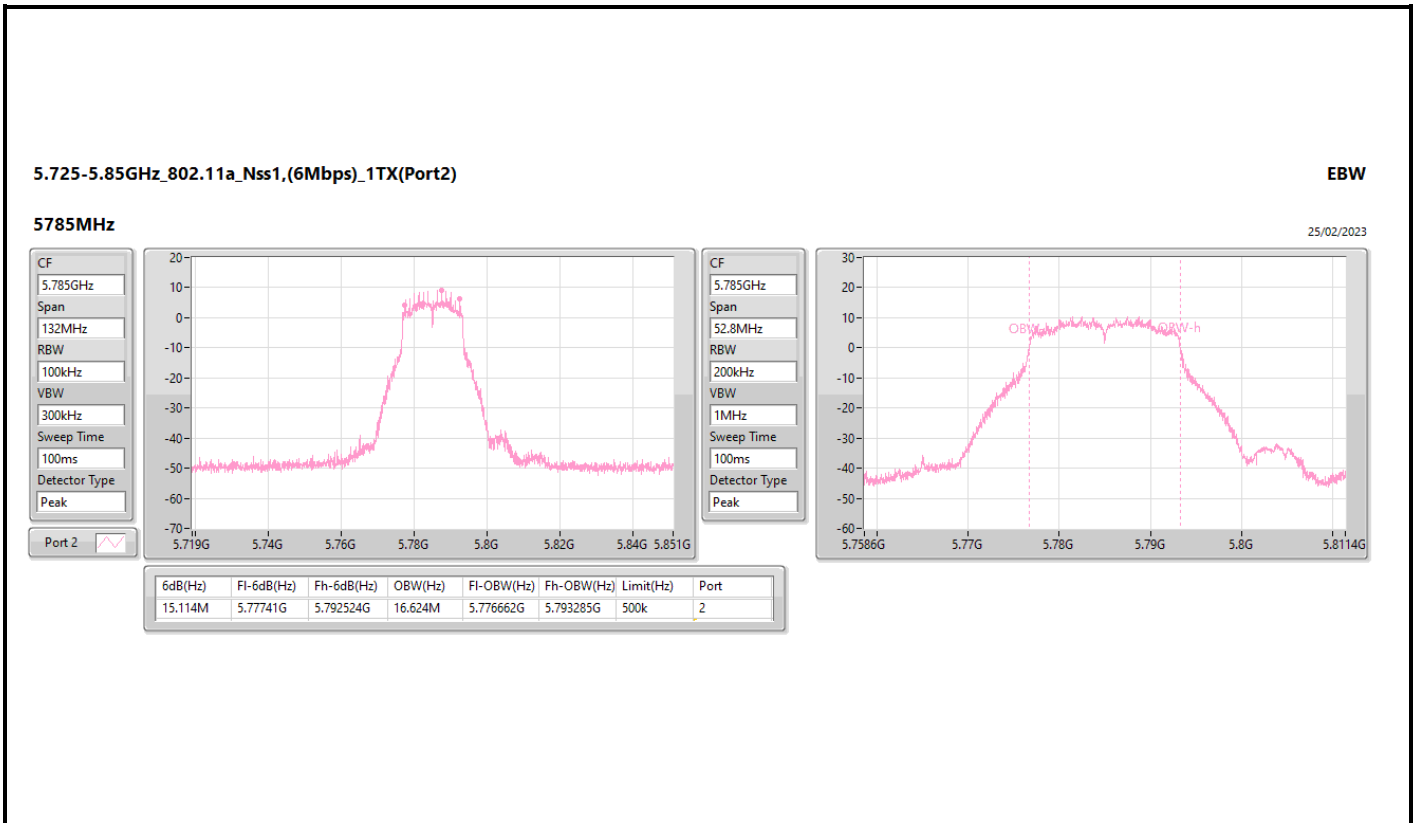
EBW

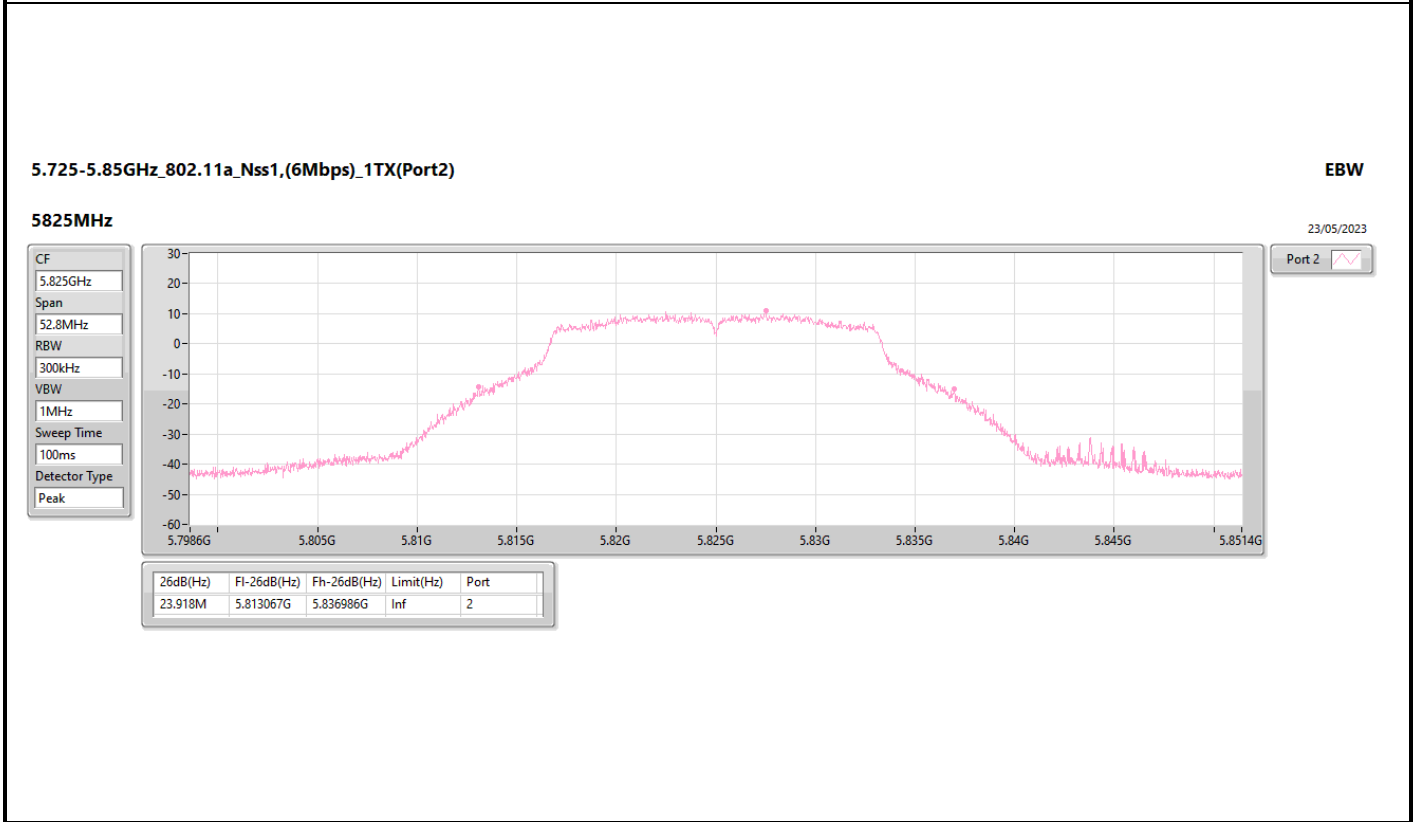
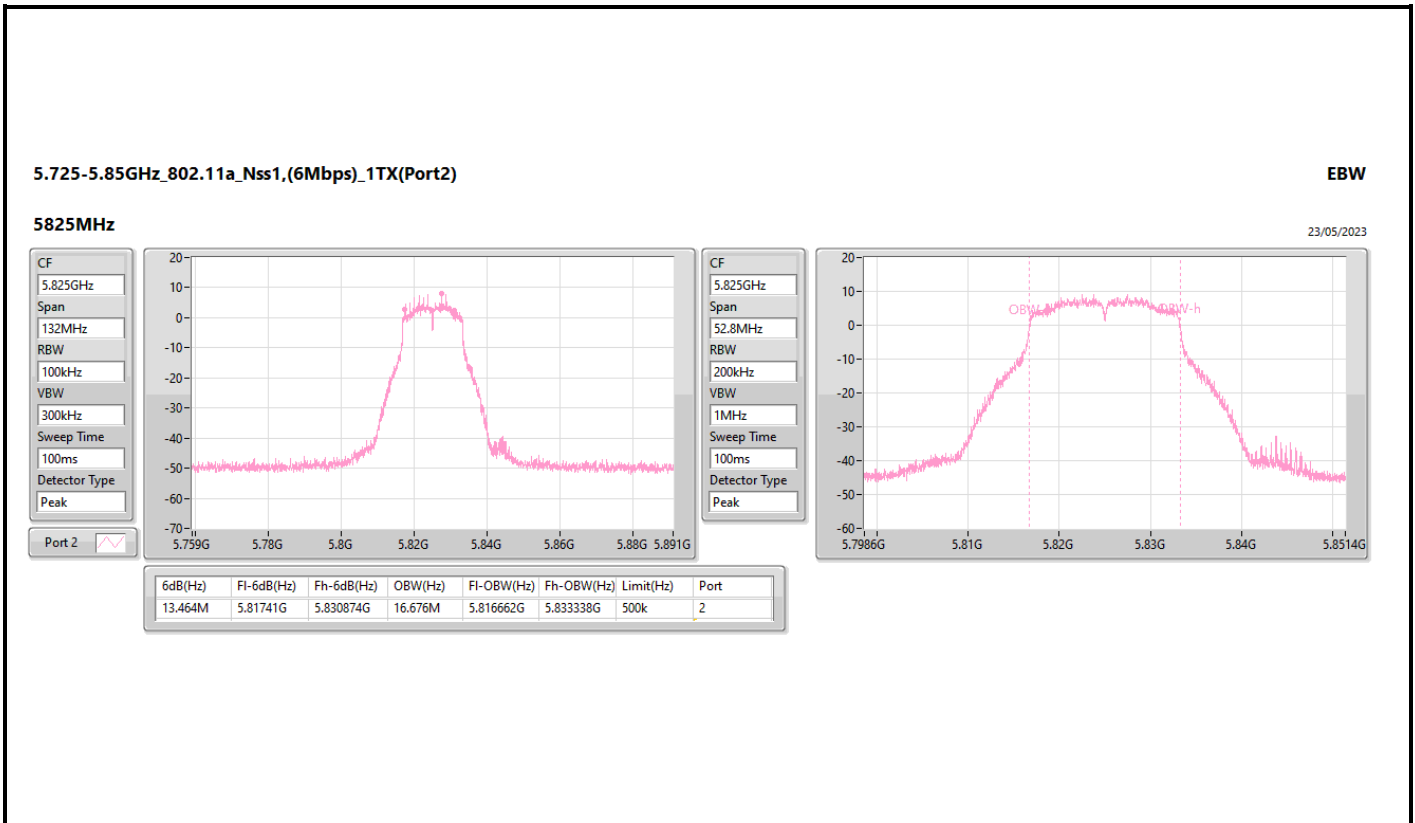
5720MHz Straddle 5.725-5.85GHz

25/02/2023







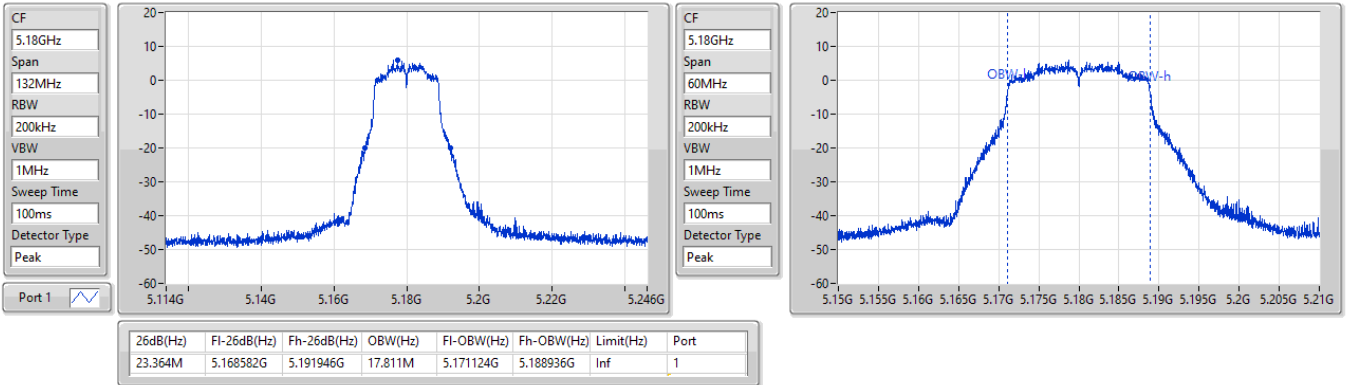


5.15-5.25GHz 802.11n HT20_Nss1,(MCS0)_1TX(Port1)

EBW

5180MHz

25/02/2023

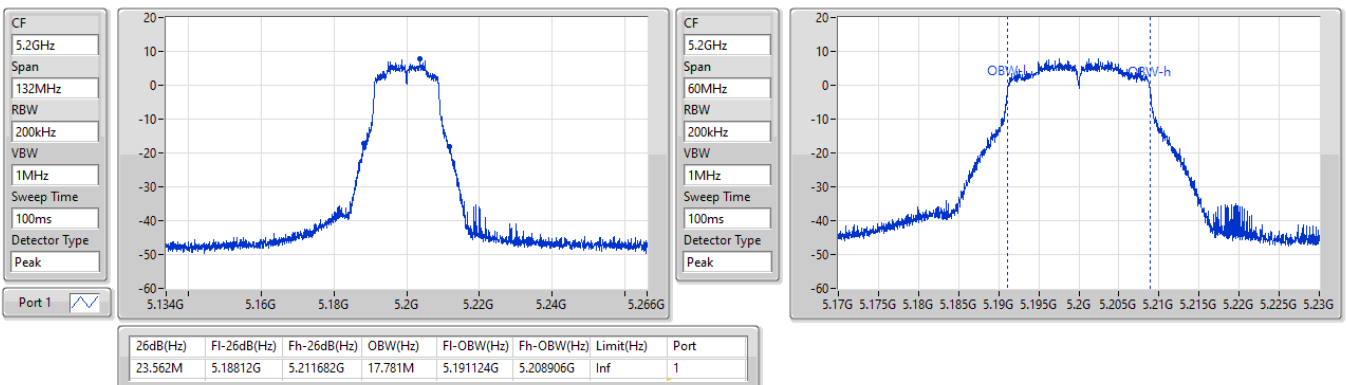


5.15-5.25GHz 802.11n HT20_Nss1,(MCS0)_1TX(Port1)

EBW

5200MHz

25/02/2023

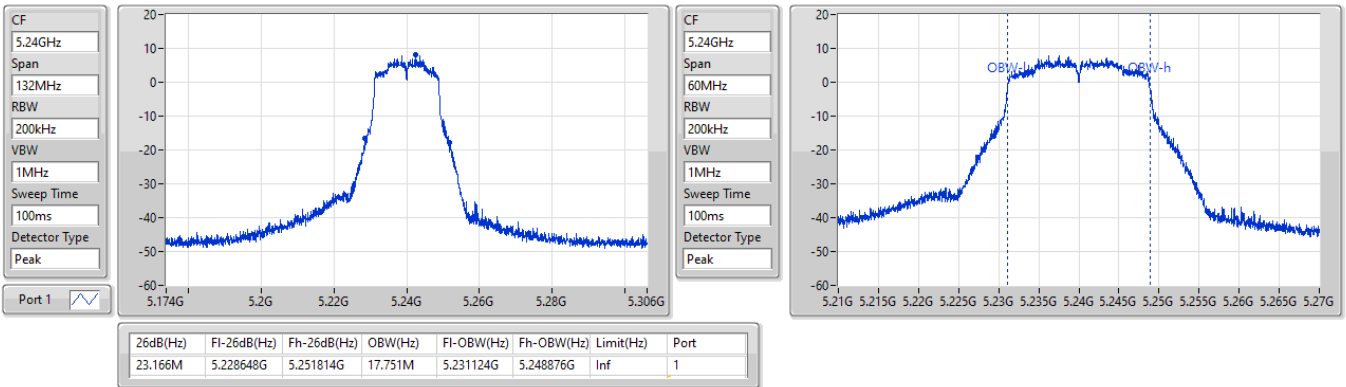


5.15-5.25GHz 802.11n HT20_Nss1,(MCS0)_1TX(Port1)

EBW

5240MHz

25/02/2023

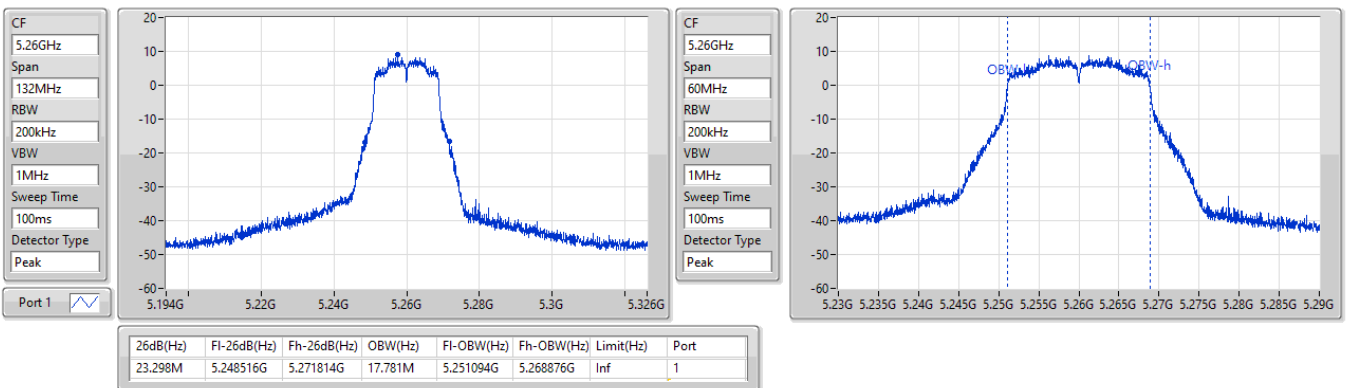


5.25-5.35GHz 802.11n HT20_Nss1,(MCS0)_1TX(Port1)

EBW

5260MHz

25/02/2023

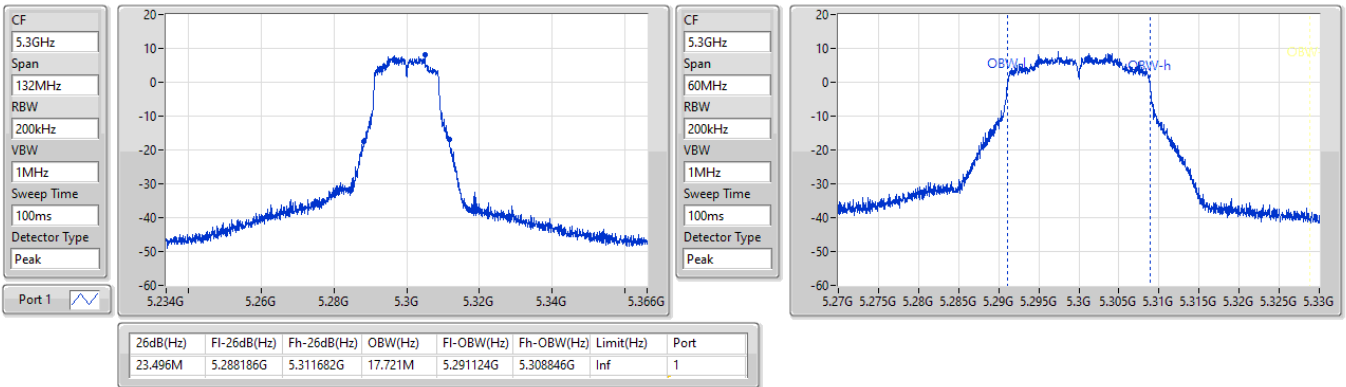


5.25-5.35GHz, 802.11n HT20_Nss1, (MCS0)_1TX(Port1)

EBW

5300MHz

25/02/2023

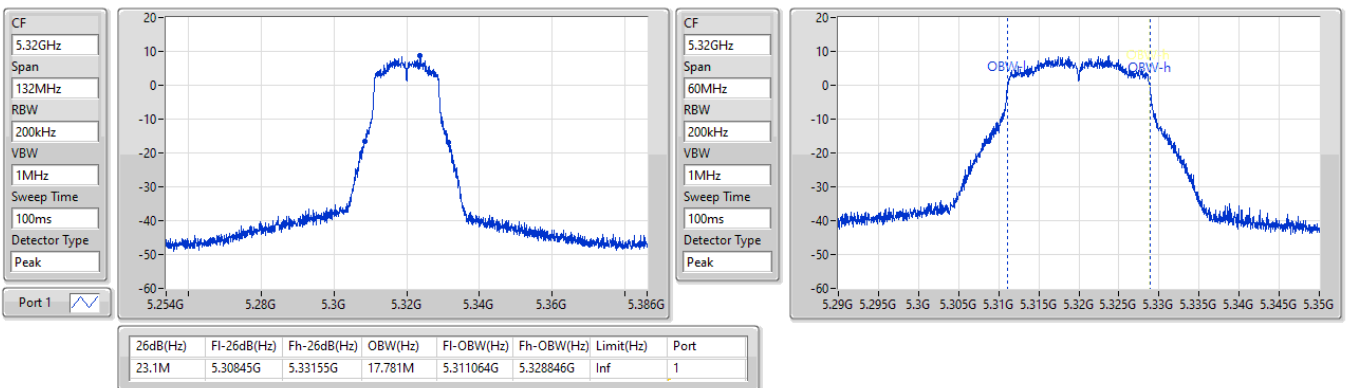


5.25-5.35GHz, 802.11n HT20_Nss1, (MCS0)_1TX(Port1)

EBW

5320MHz

25/02/2023

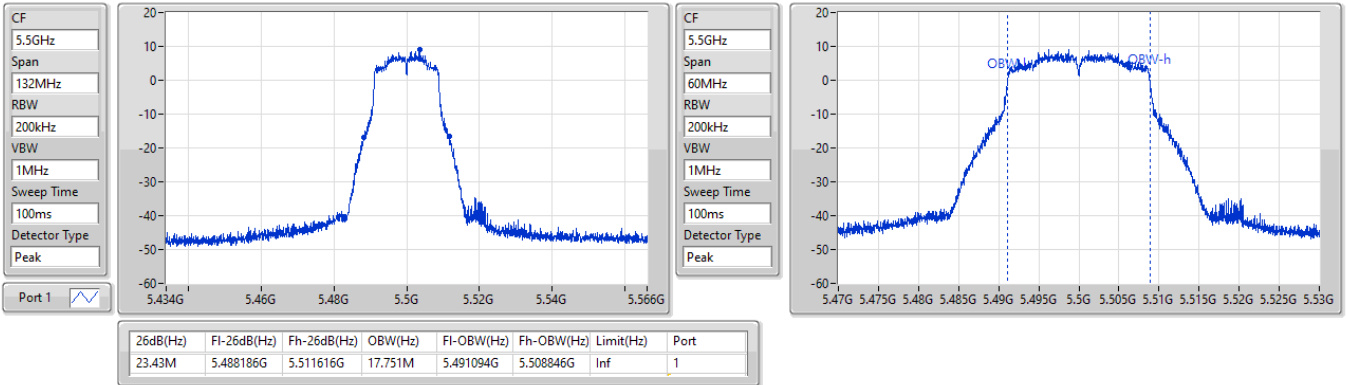


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port1)

EBW

5500MHz

25/02/2023

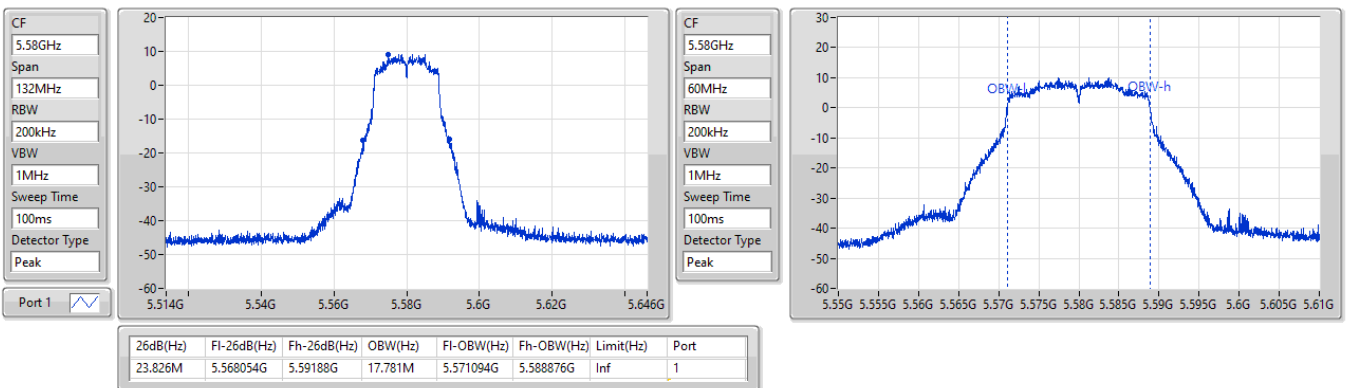


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port1)

EBW

5580MHz

03/03/2023

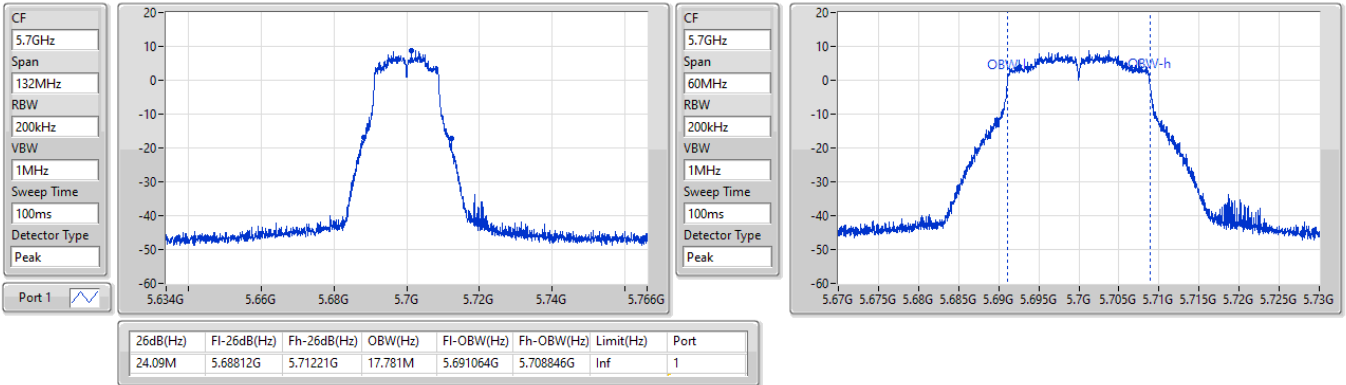


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port1)

EBW

5700MHz

25/02/2023

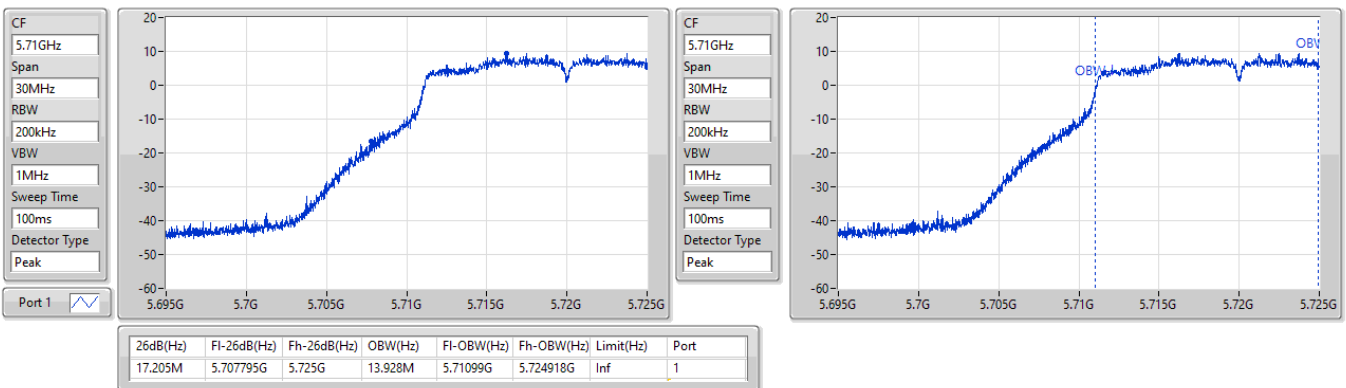


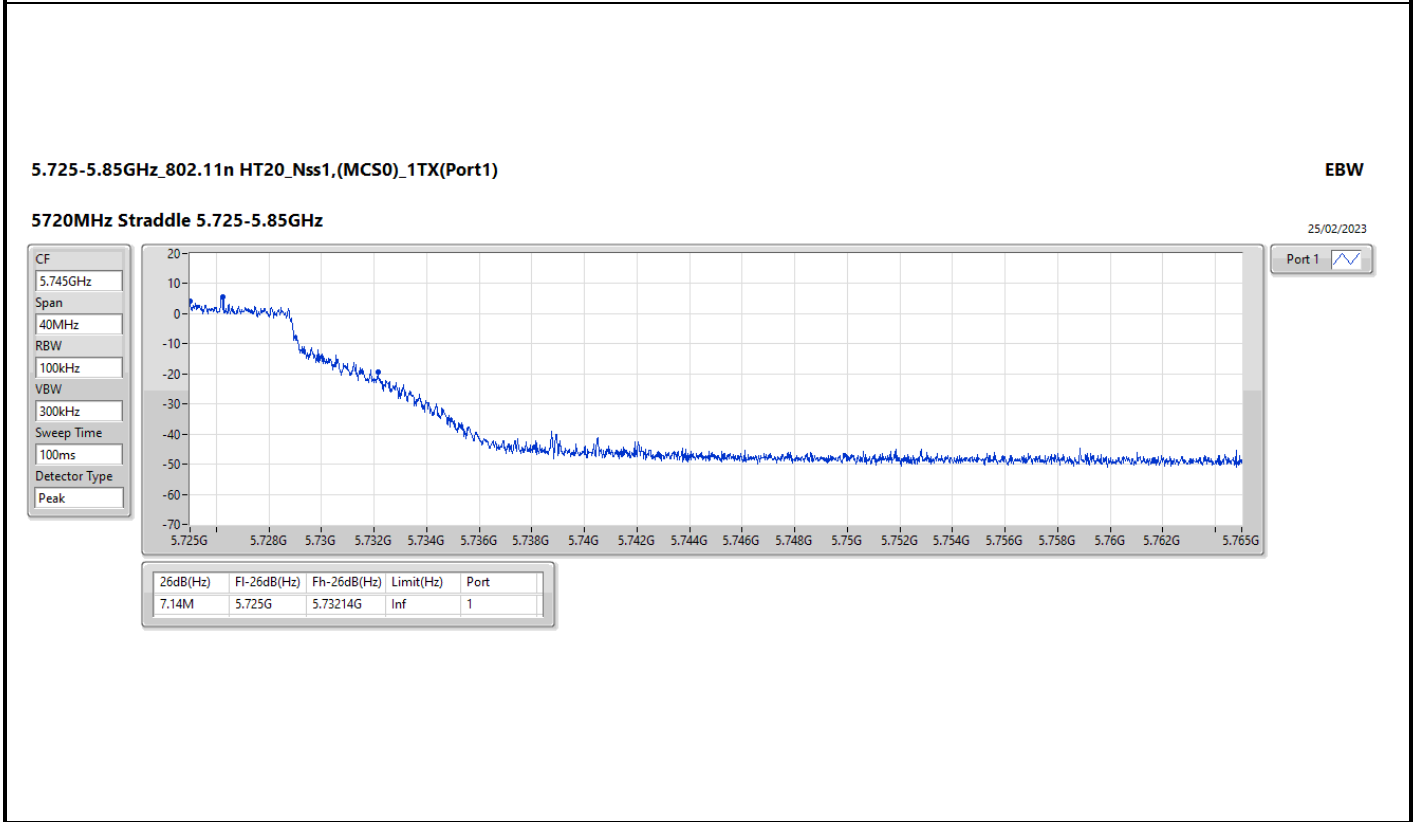
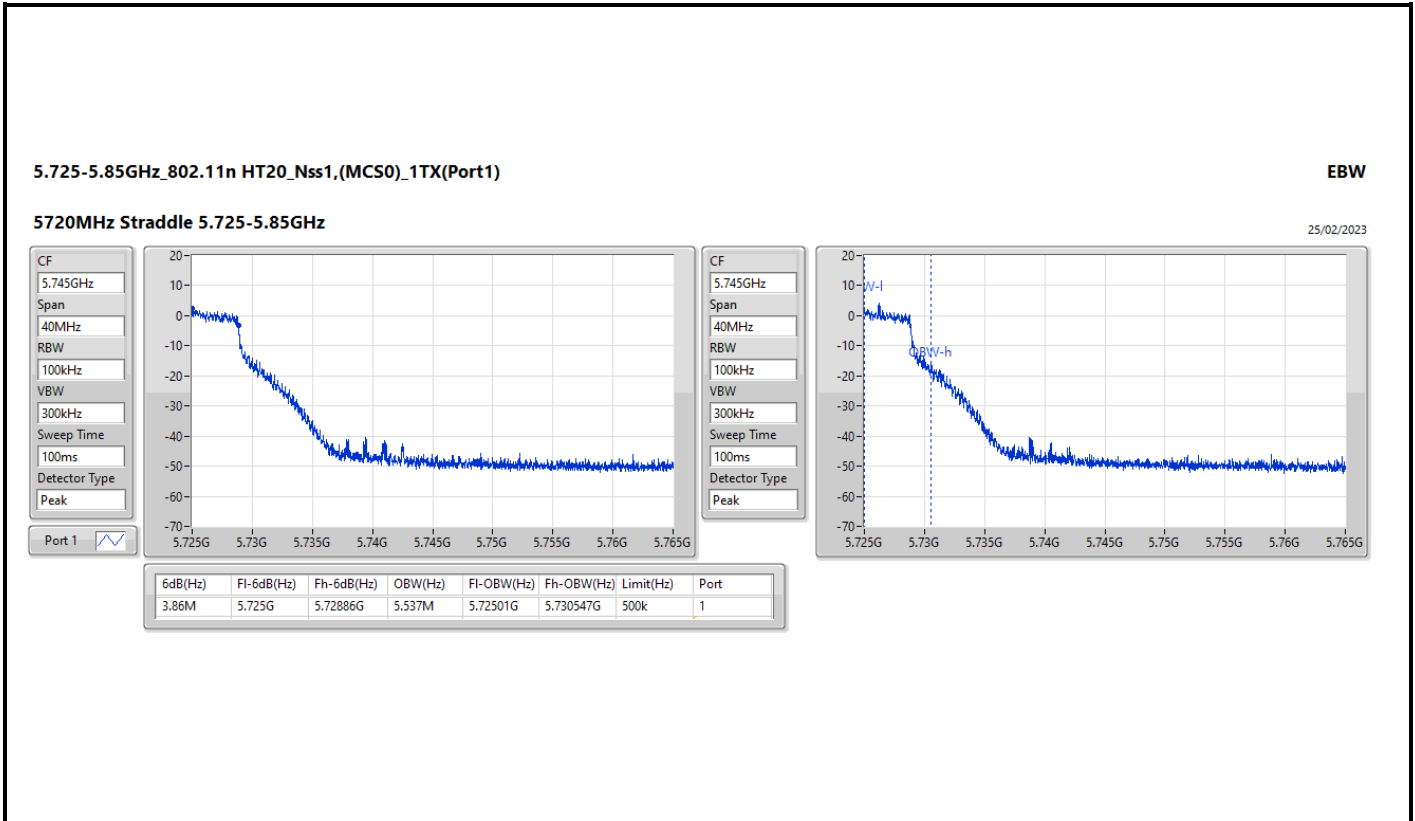
5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port1)

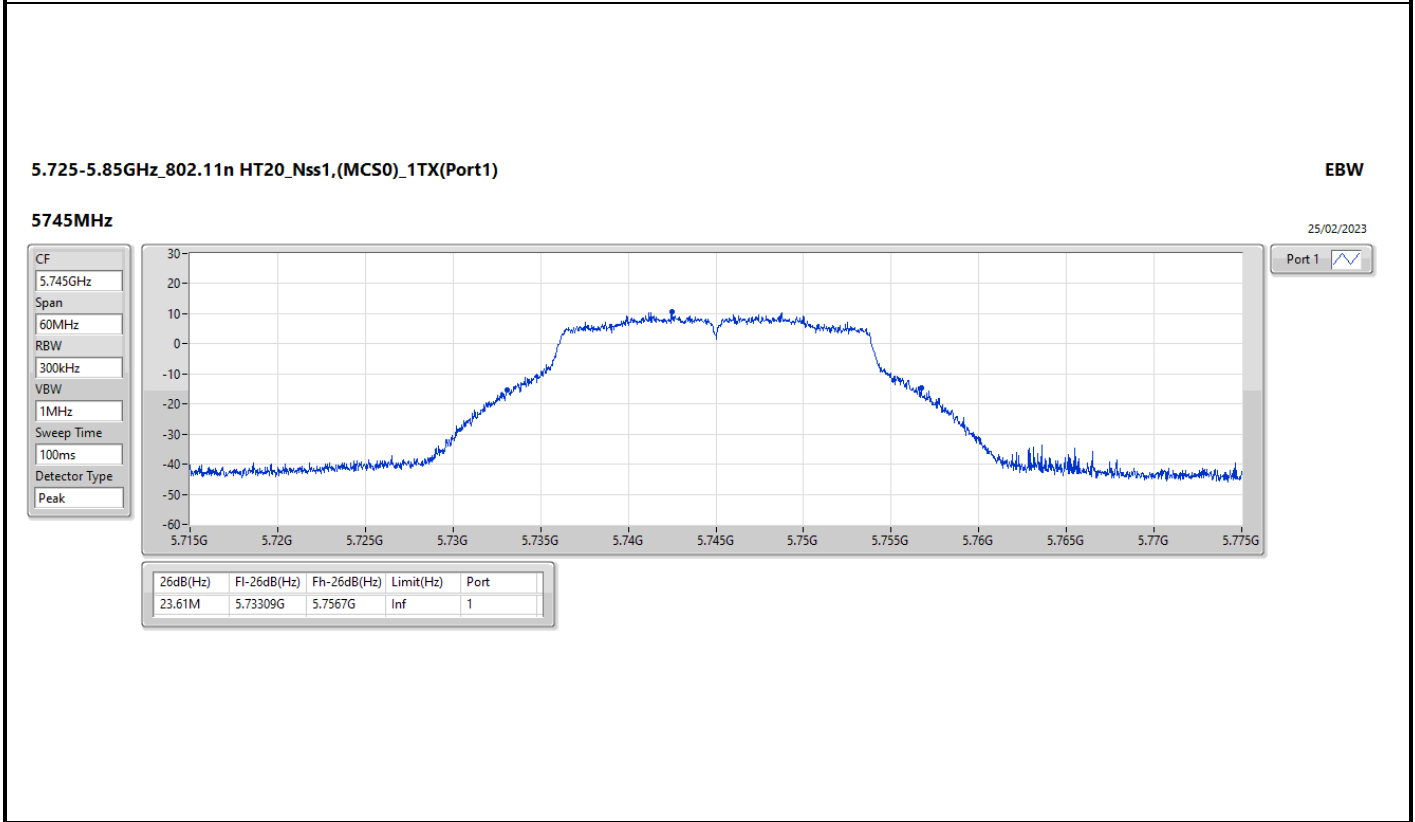
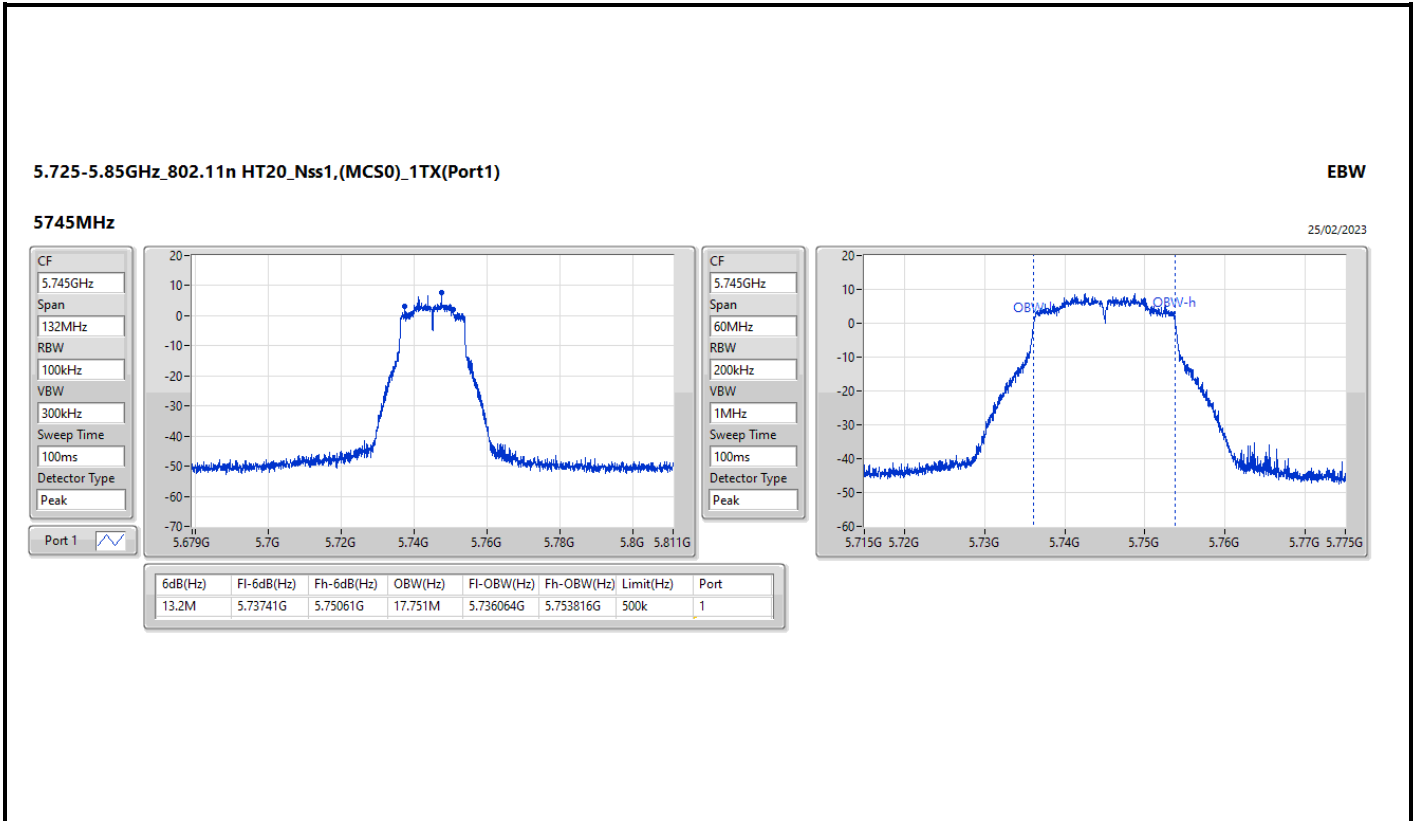
EBW

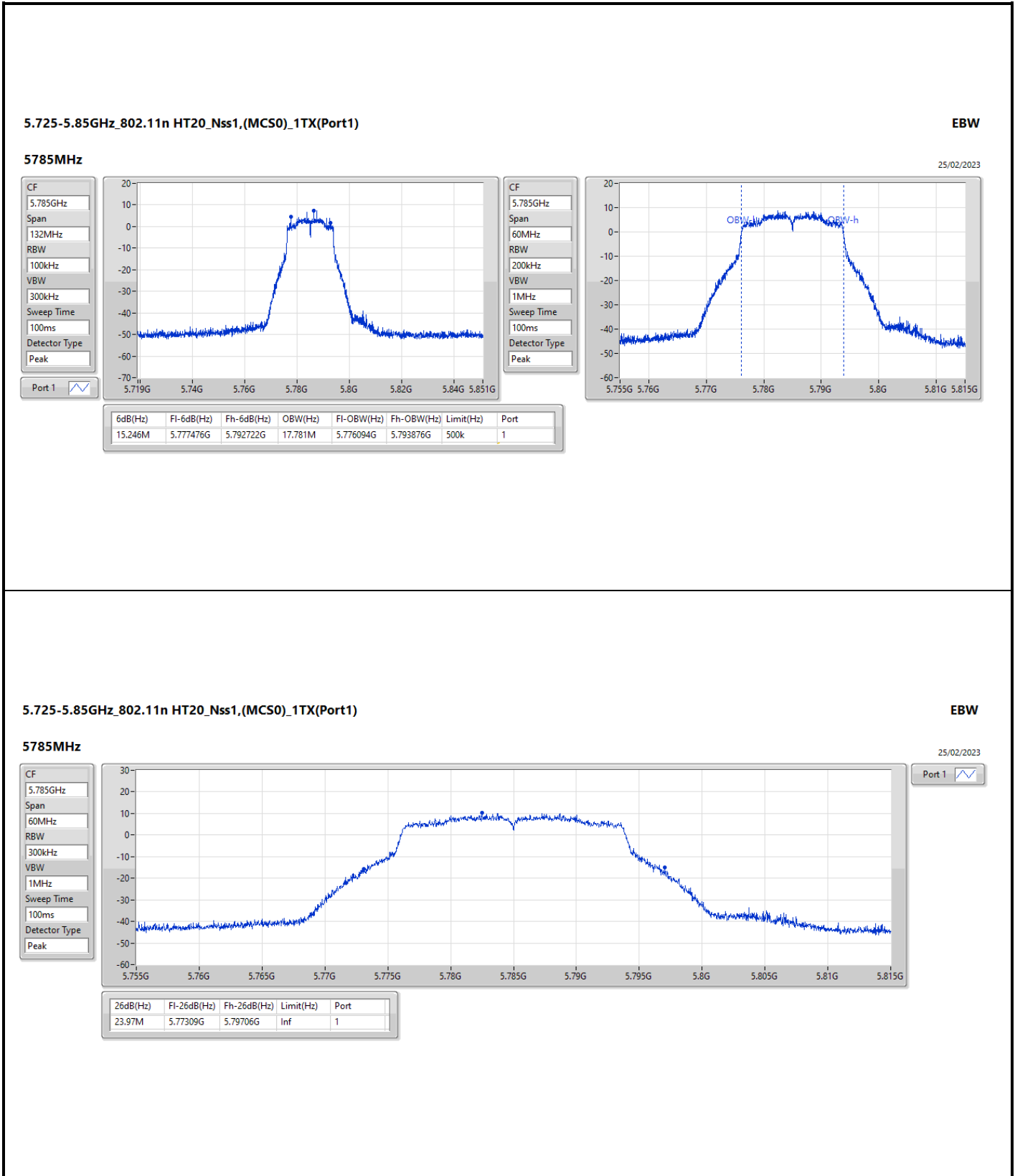
5720MHz Straddle 5.47-5.725GHz

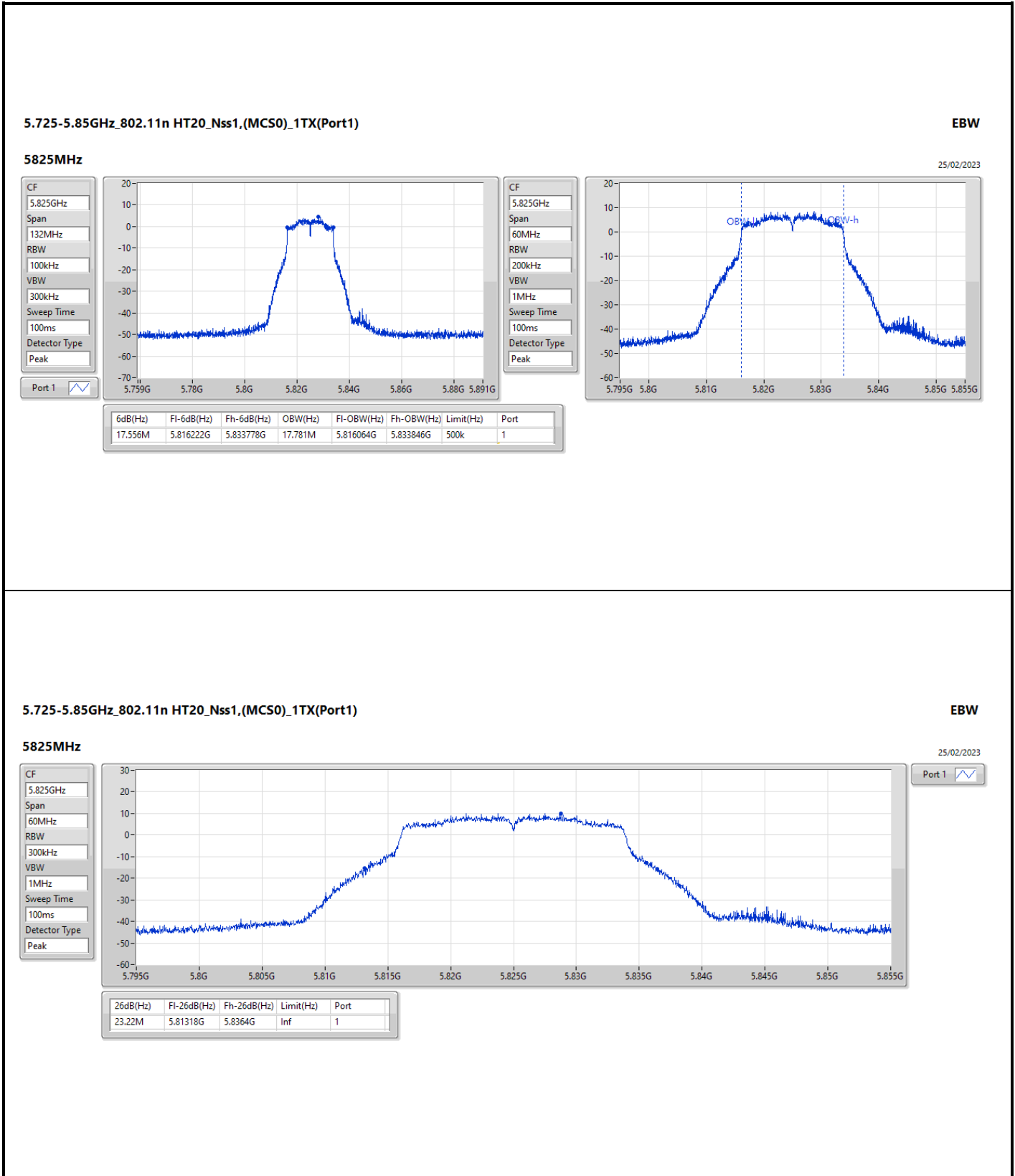
27/02/2023









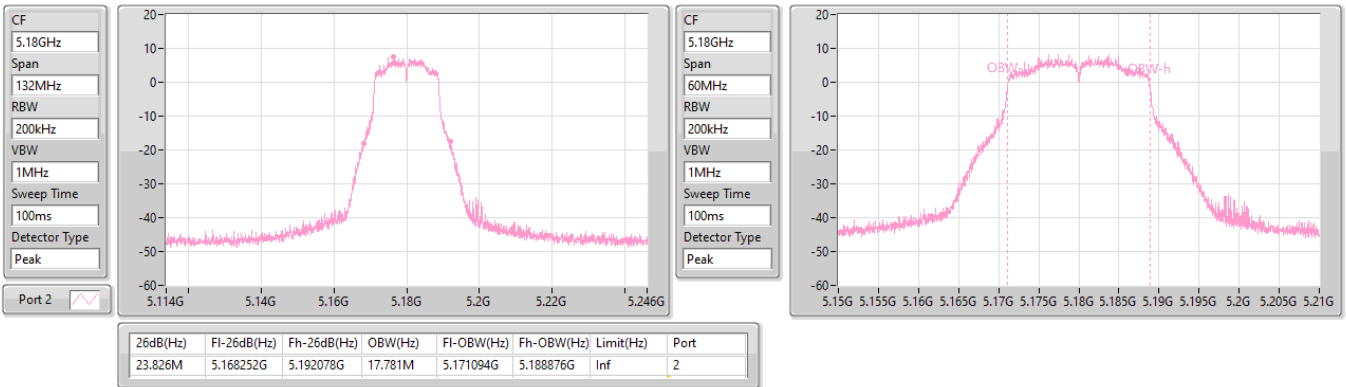


5.15-5.25GHz 802.11n HT20_Nss1,(MCS0)_1TX(Port2)

EBW

5180MHz

25/02/2023

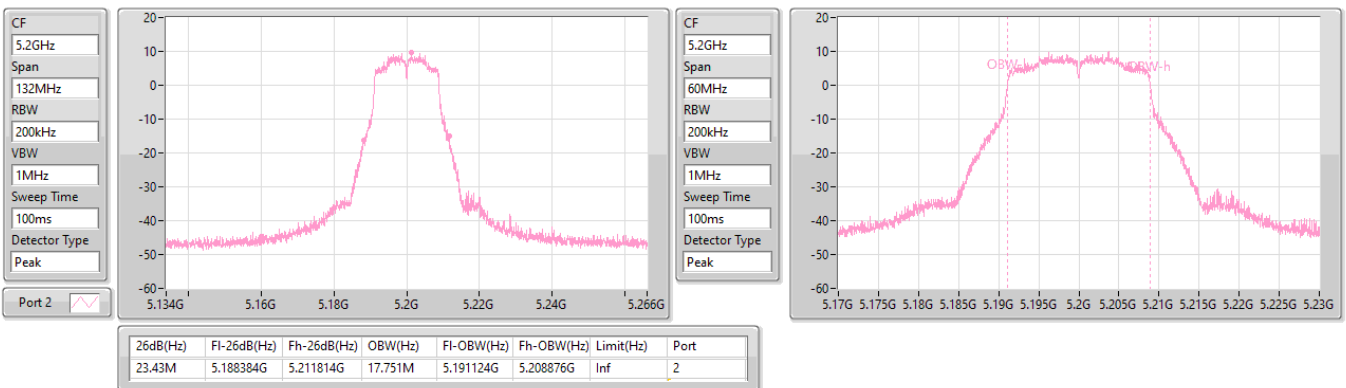


5.15-5.25GHz 802.11n HT20_Nss1,(MCS0)_1TX(Port2)

EBW

5200MHz

25/02/2023

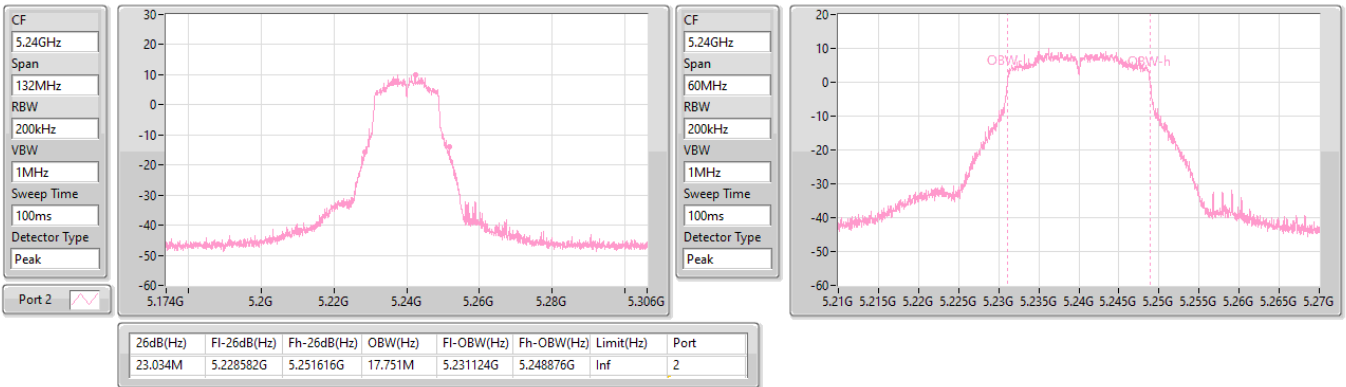


5.15-5.25GHz 802.11n HT20_Nss1,(MCS0)_1TX(Port2)

EBW

5240MHz

25/02/2023

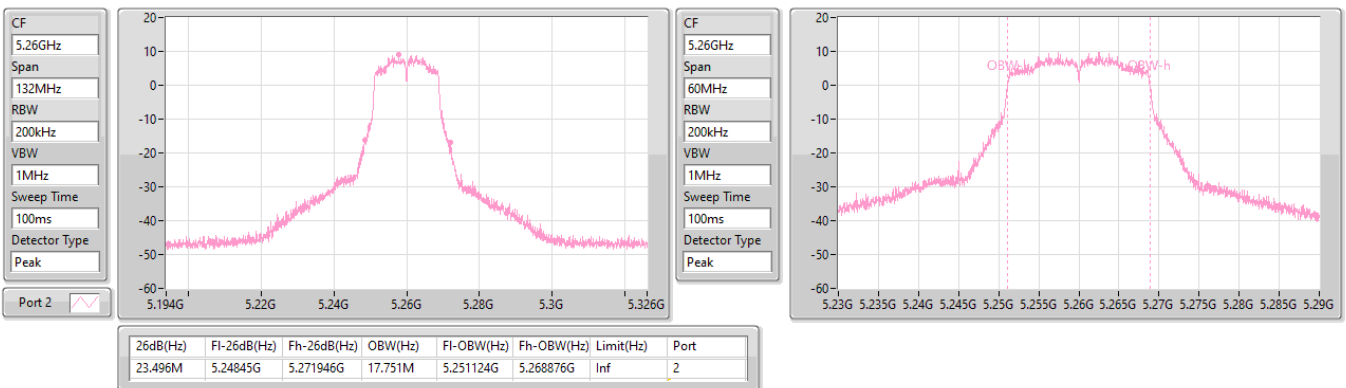


5.25-5.35GHz 802.11n HT20_Nss1,(MCS0)_1TX(Port2)

EBW

5260MHz

04/03/2023

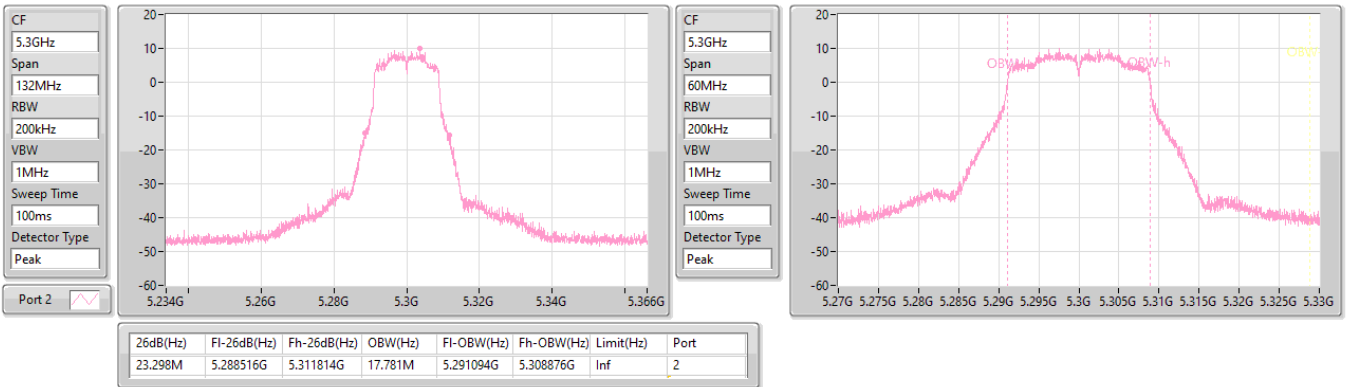


5.25-5.35GHz 802.11n HT20_Nss1,(MCS0)_1TX(Port2)

EBW

5300MHz

04/03/2023

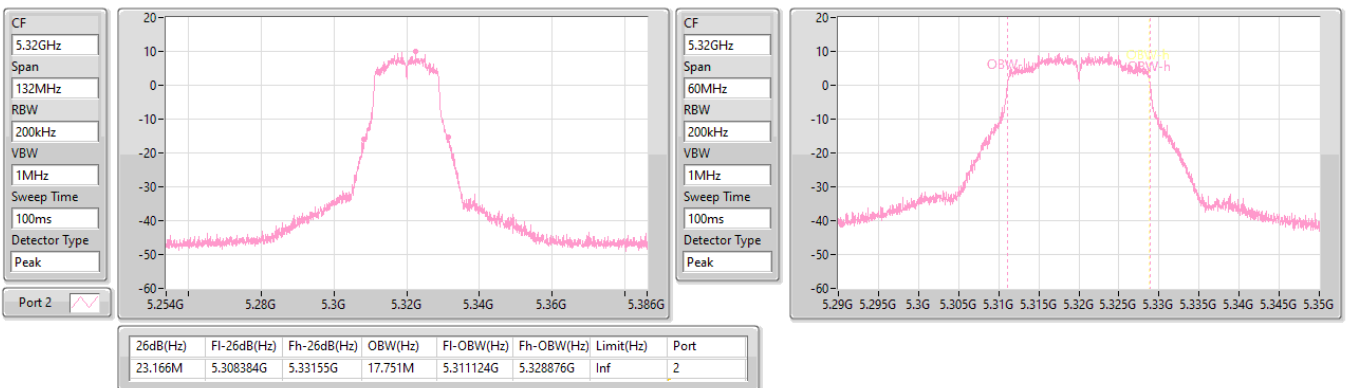


5.25-5.35GHz 802.11n HT20_Nss1,(MCS0)_1TX(Port2)

EBW

5320MHz

04/03/2023

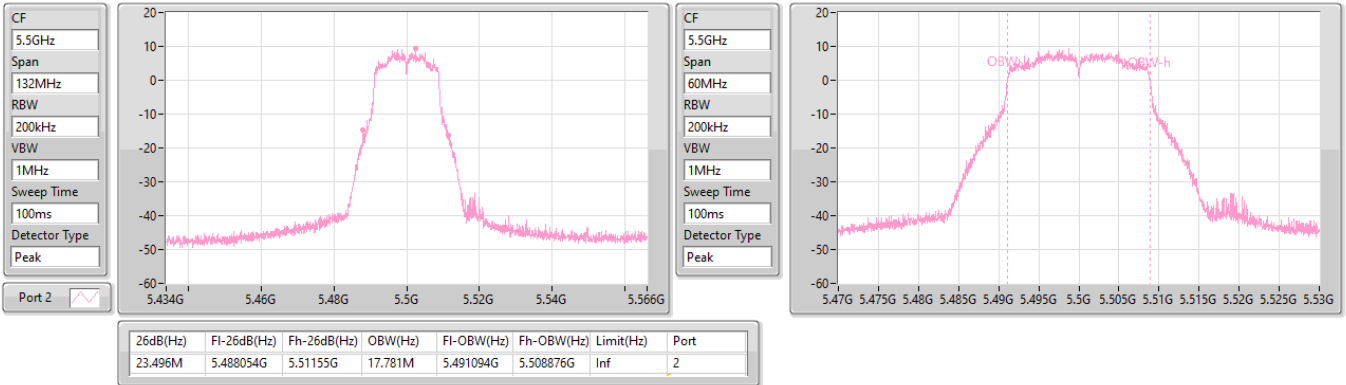


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port2)

EBW

5500MHz

27/02/2023

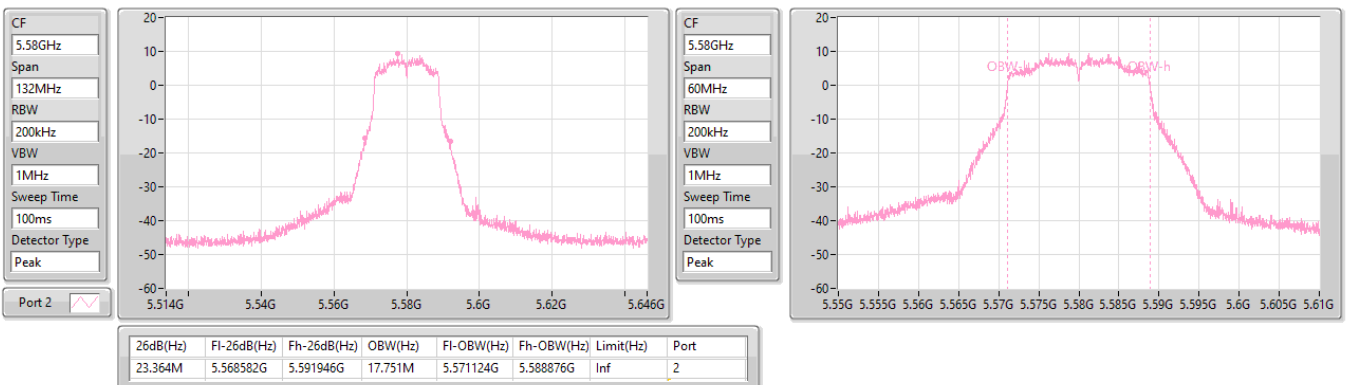


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port2)

EBW

5580MHz

03/03/2023

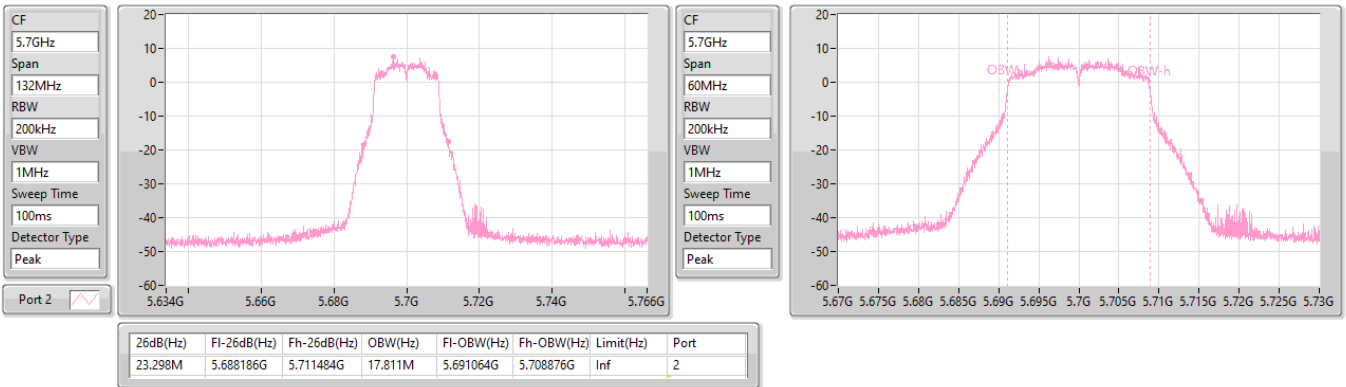


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port2)

EBW

5700MHz

27/02/2023



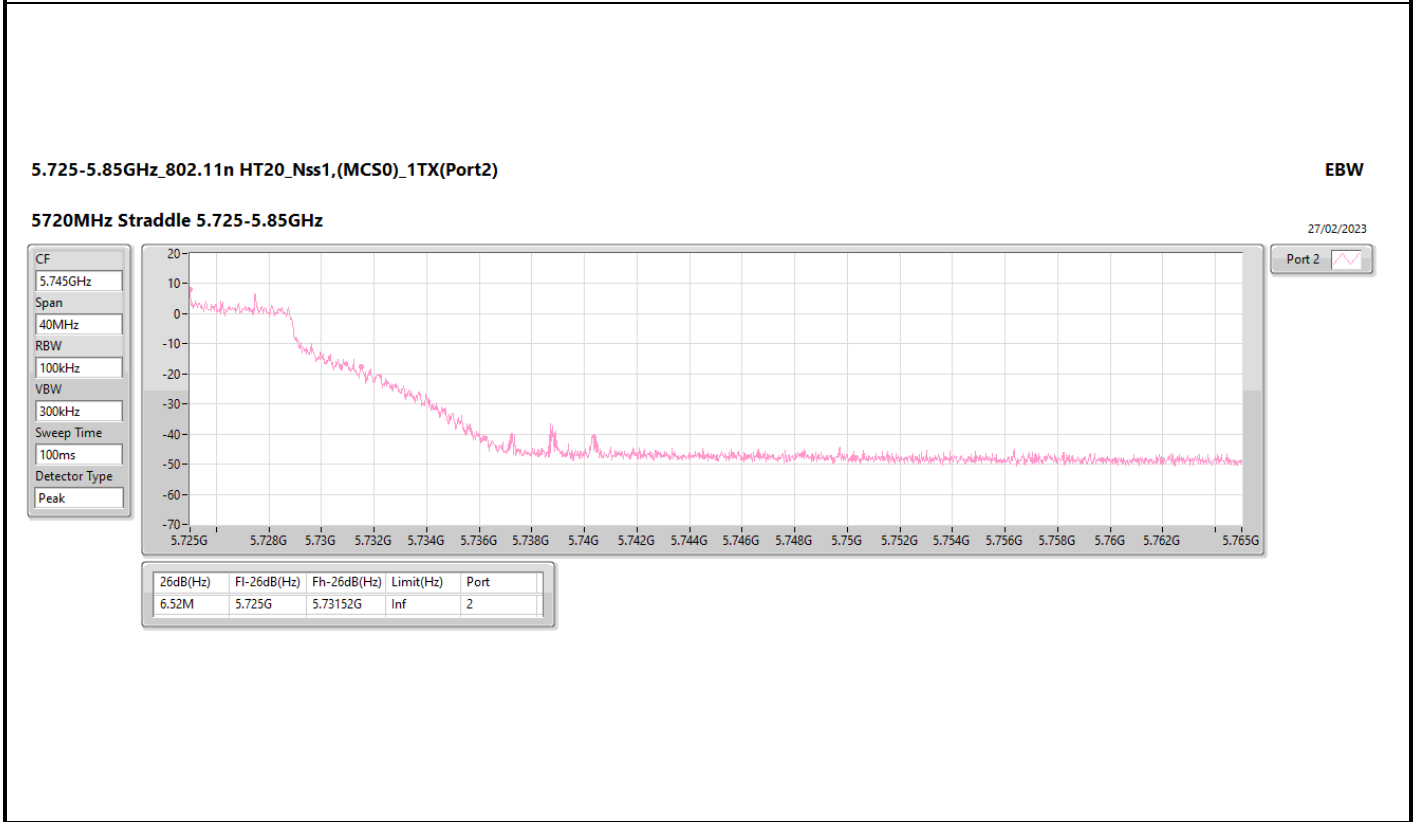
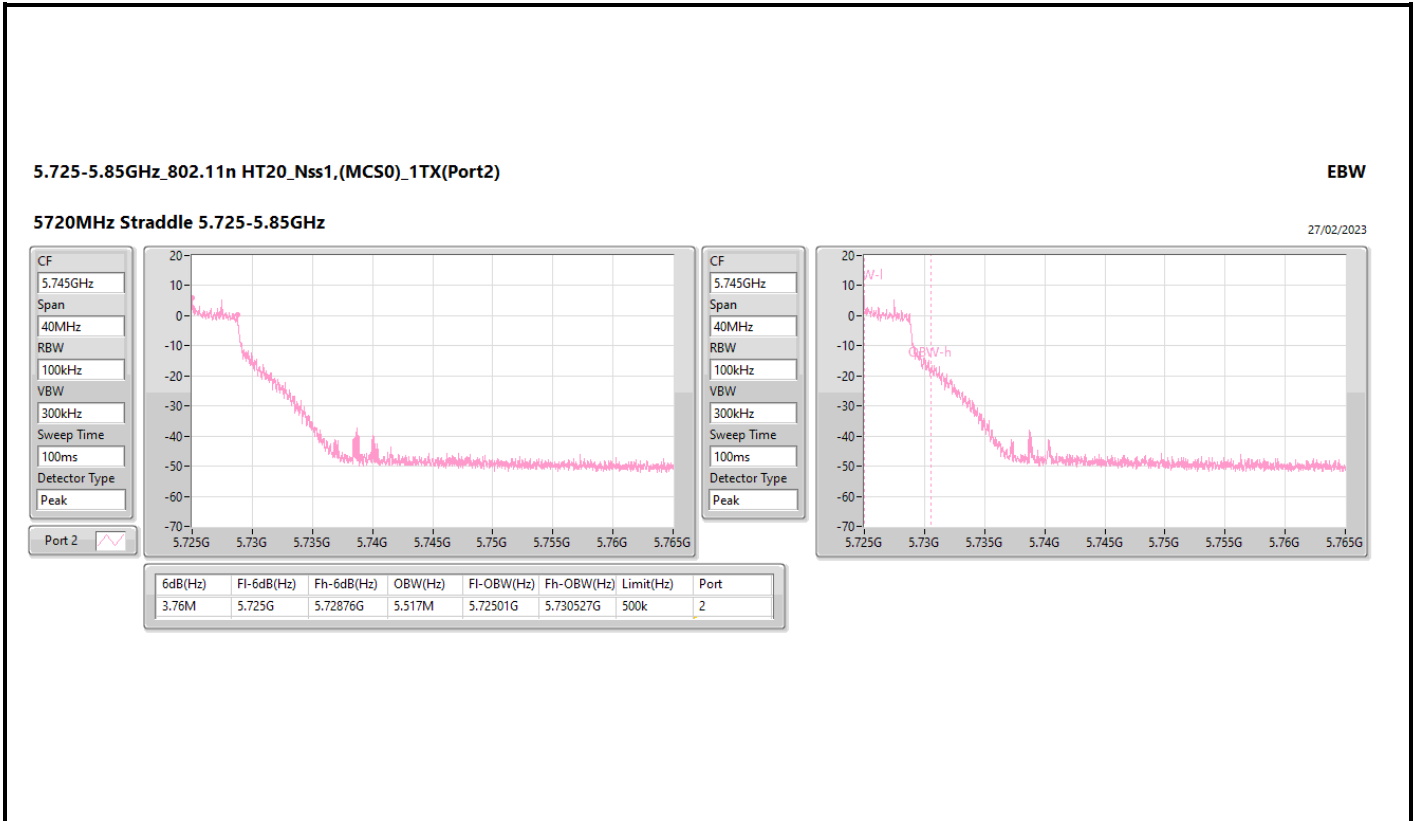
5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port2)

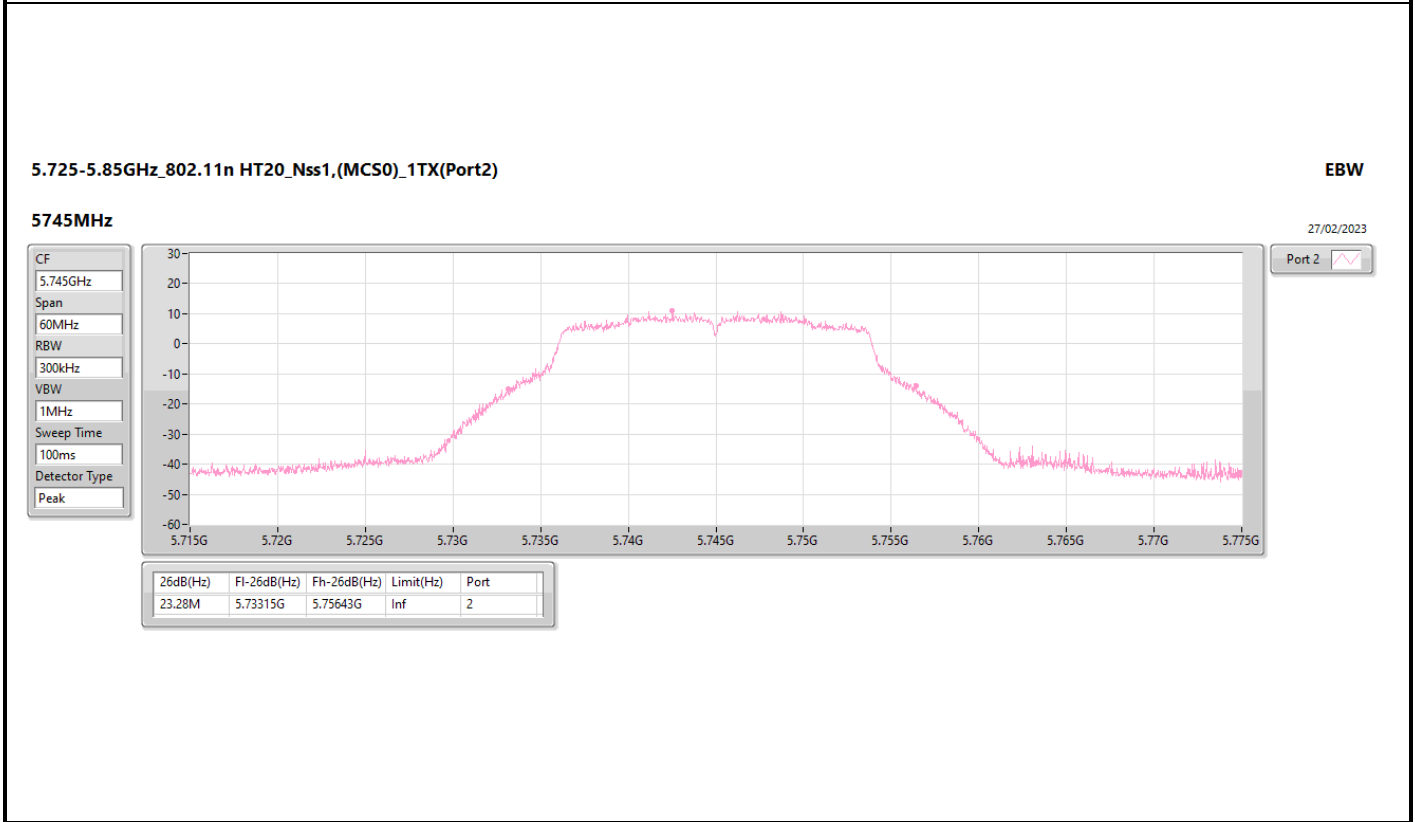
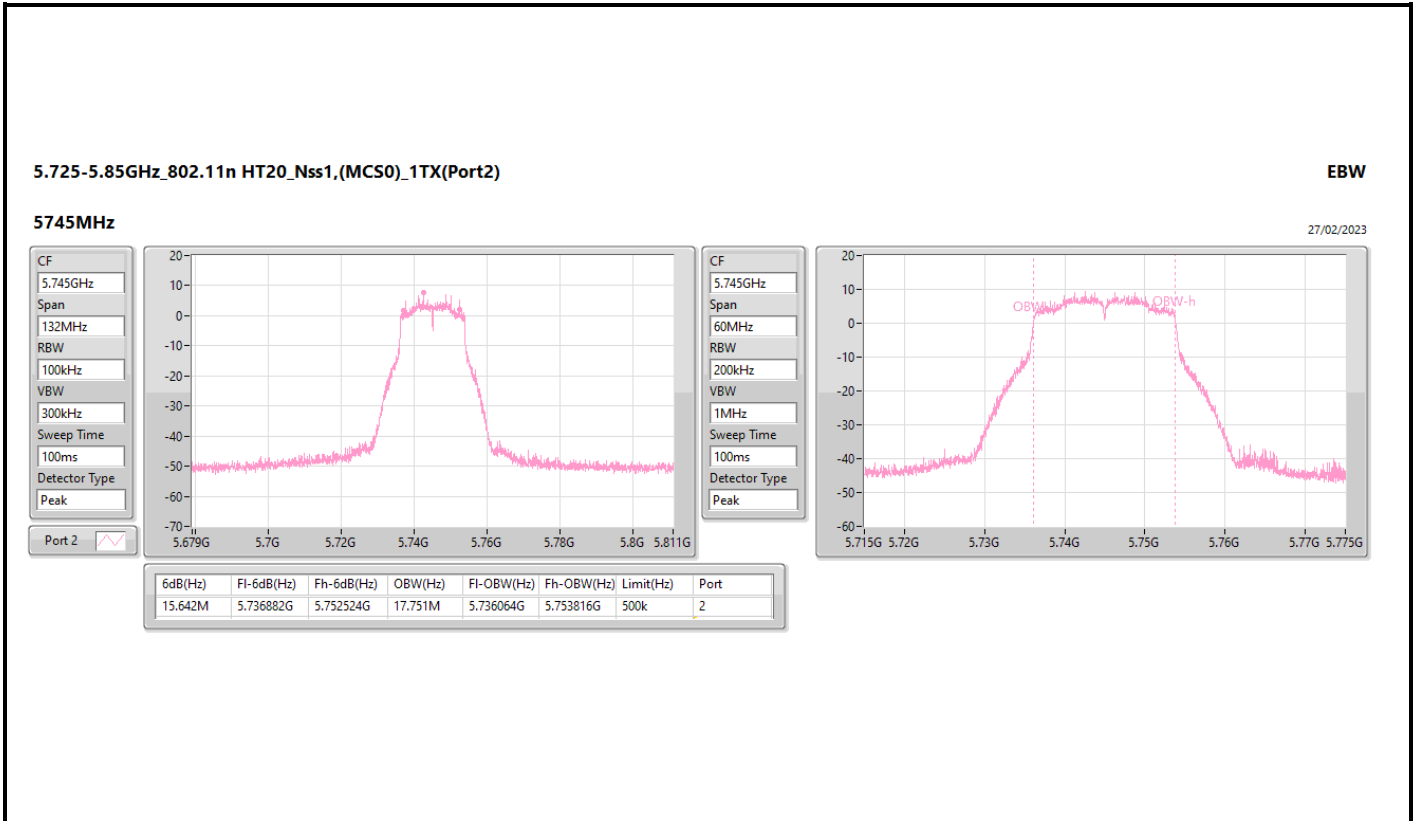
EBW

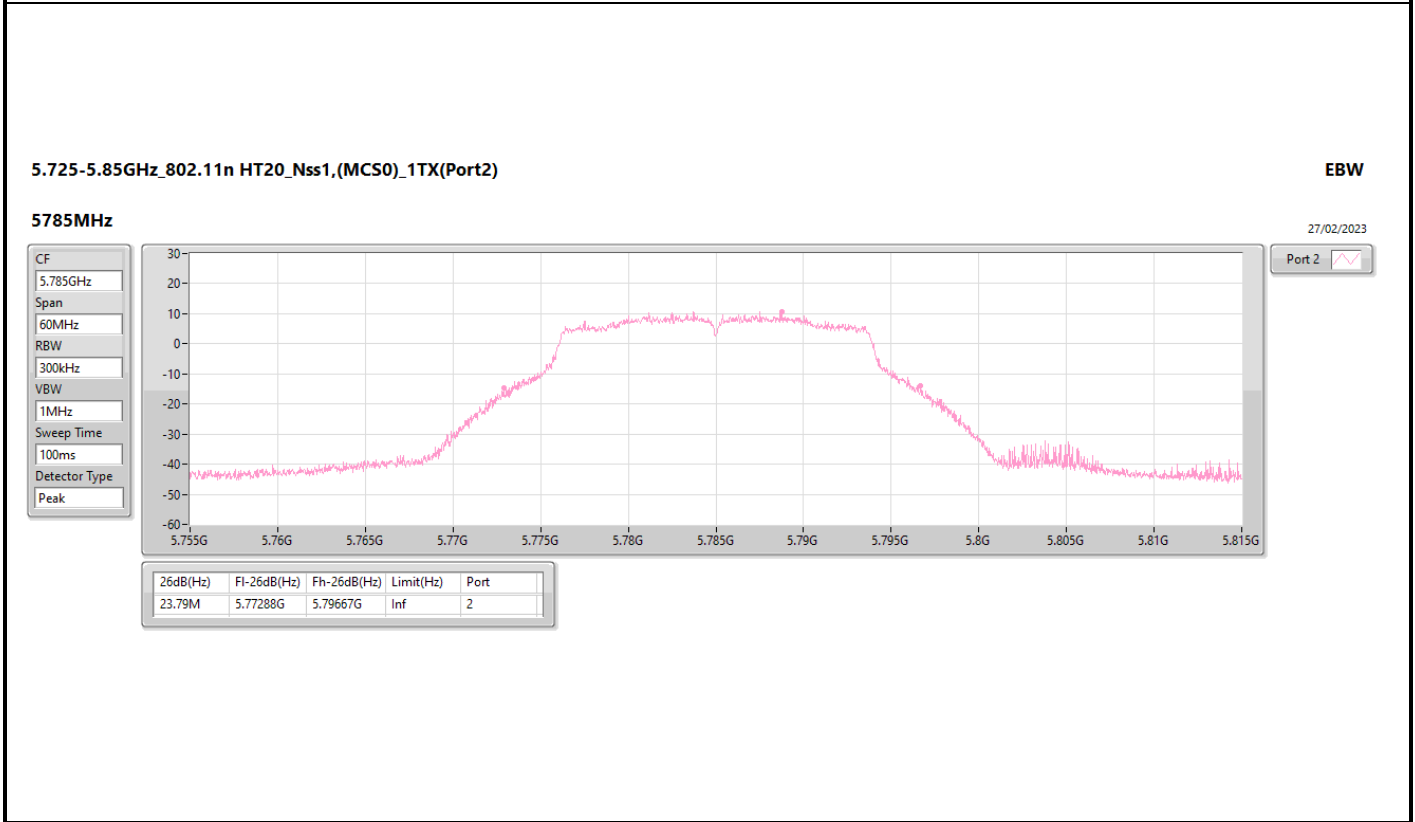
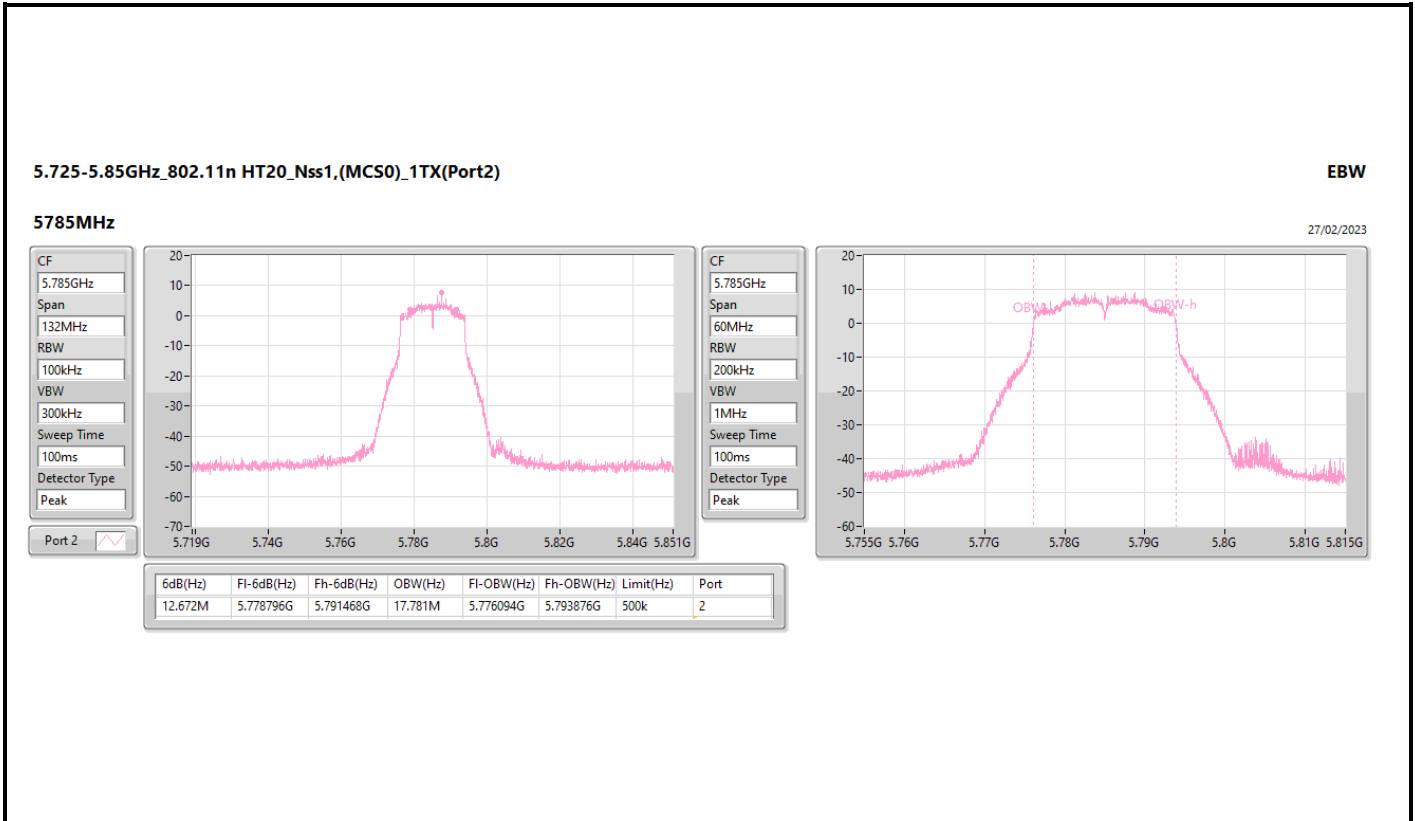
5720MHz Straddle 5.47-5.725GHz

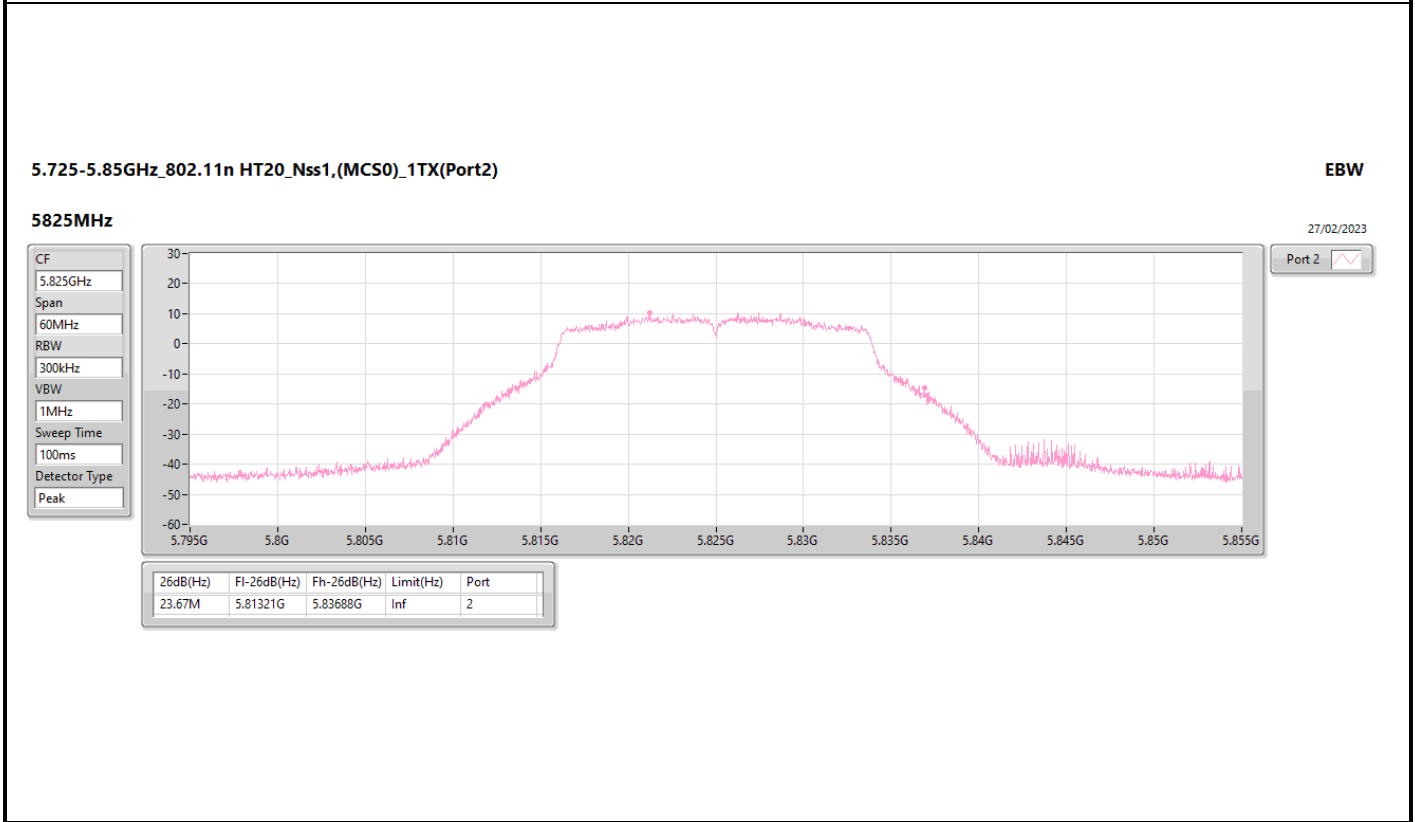
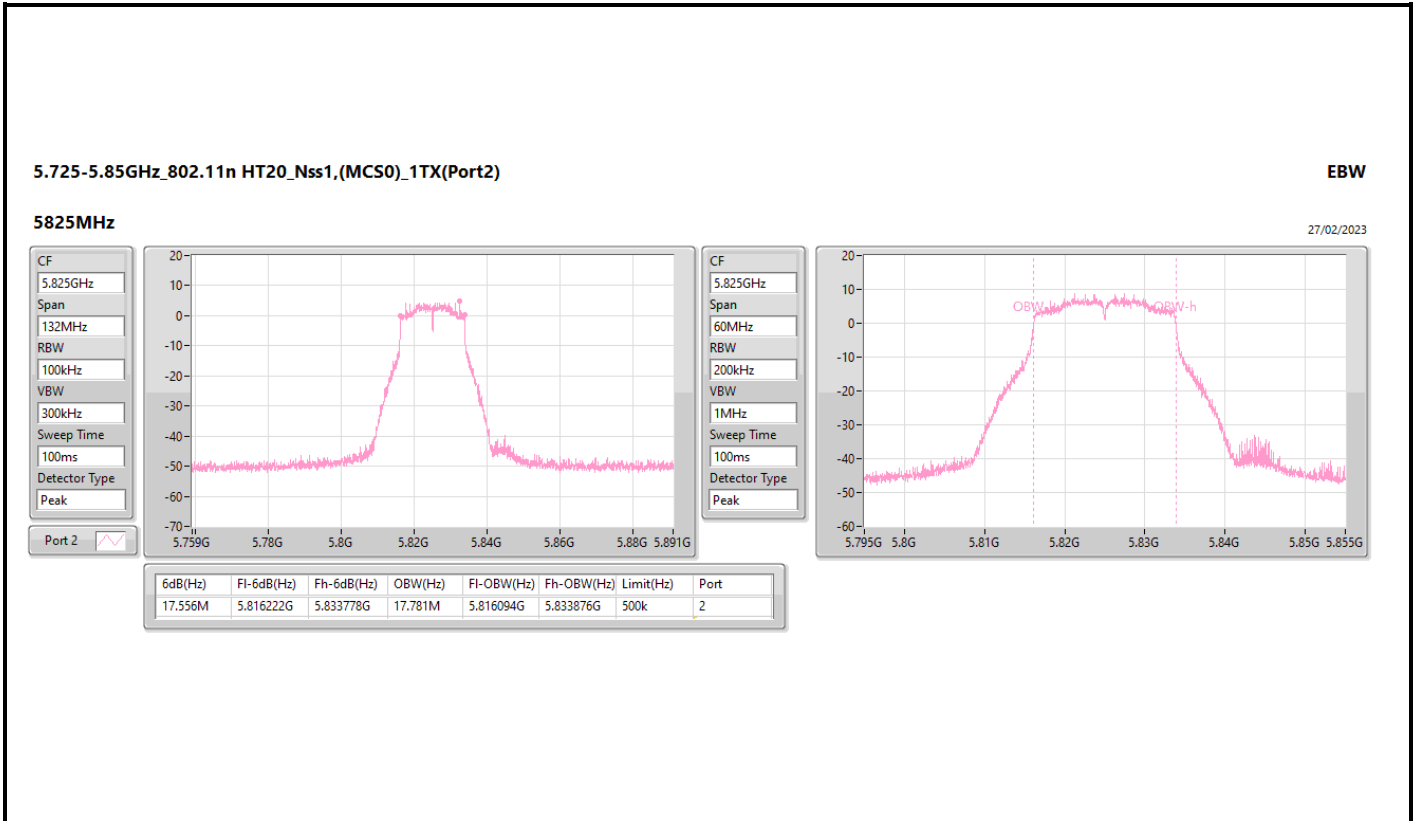
27/02/2023











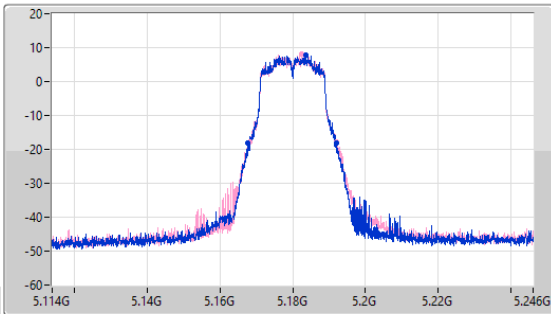
5.15-5.25GHz_802.11n HT20_Nss1,(MCS8)_2TX

EBW

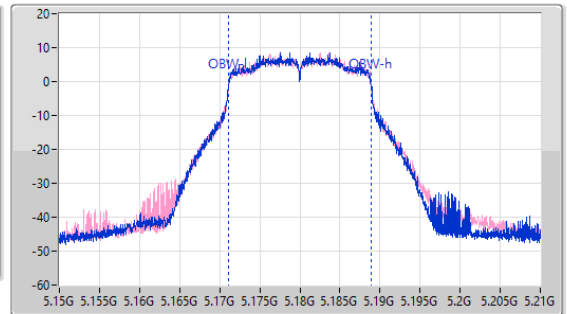
5180MHz

07/03/2023

CF: 5.18GHz
 Span: 132MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.18GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.288M	5.167724G	5.192012G	17.781M	5.171094G	5.188876G	Inf	1
23.76M	5.168384G	5.192144G	17.781M	5.171124G	5.188906G	Inf	2

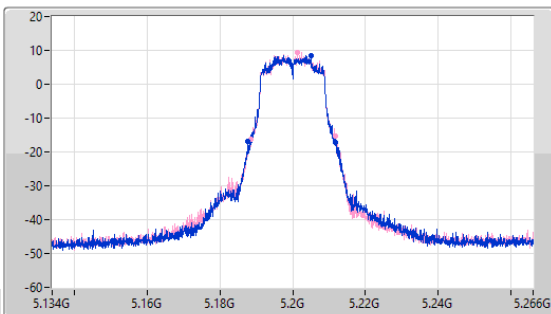
5.15-5.25GHz_802.11n HT20_Nss1,(MCS8)_2TX

EBW

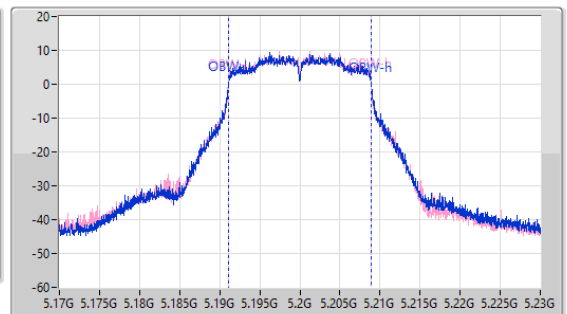
5200MHz

07/03/2023

CF: 5.2GHz
 Span: 132MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.2GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



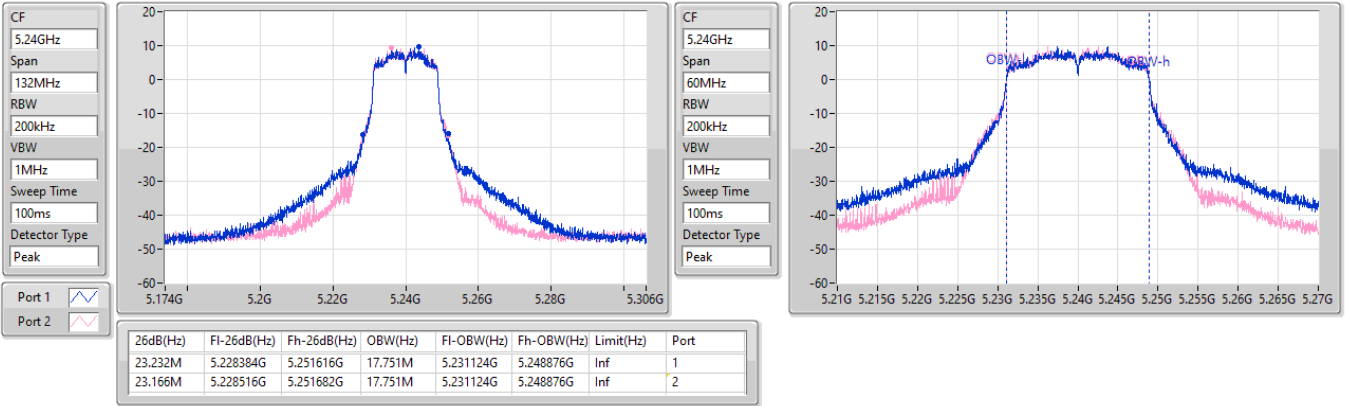
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.024M	5.18779G	5.211814G	17.781M	5.191124G	5.208906G	Inf	1
23.232M	5.188516G	5.211748G	17.751M	5.191124G	5.208876G	Inf	2

5.15-5.25GHz_802.11n HT20_Nss1,(MCS8)_2TX

EBW

5240MHz

07/03/2023

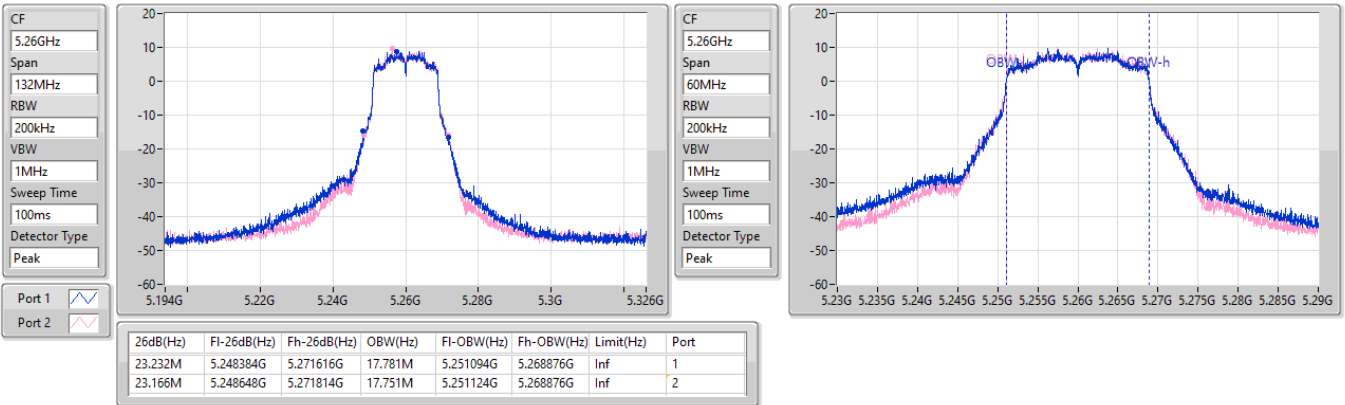


5.25-5.35GHz_802.11n HT20_Nss1,(MCS8)_2TX

EBW

5260MHz

07/03/2023



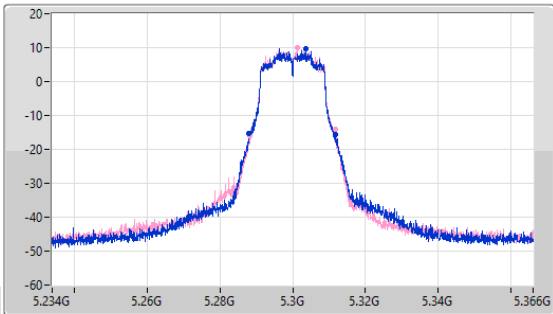
5.25-5.35GHz_802.11n HT20_Nss1,(MCS8)_2TX

EBW

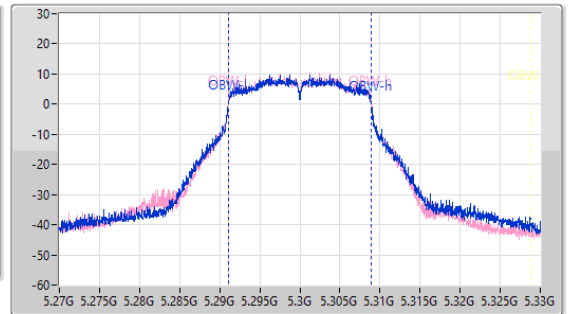
5300MHz

07/03/2023

CF
5.3GHz
Span
132MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.3GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.562M	5.288054G	5.311616G	17.781M	5.291094G	5.308876G	Inf	1
23.628M	5.288252G	5.31188G	17.721M	5.291124G	5.308846G	Inf	2

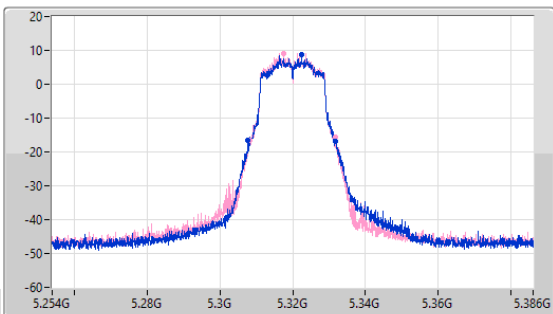
5.25-5.35GHz_802.11n HT20_Nss1,(MCS8)_2TX

EBW

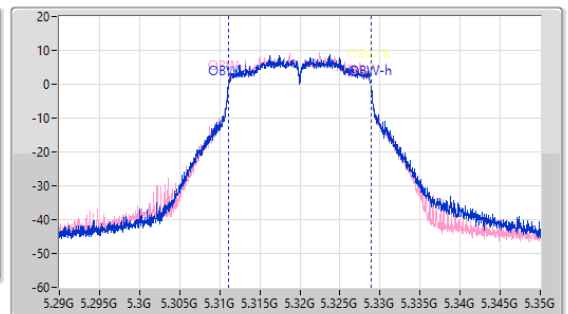
5320MHz

07/03/2023

CF
5.32GHz
Span
132MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.32GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.156M	5.307724G	5.33188G	17.811M	5.311094G	5.328906G	Inf	1
23.496M	5.30812G	5.331616G	17.751M	5.311124G	5.328876G	Inf	2

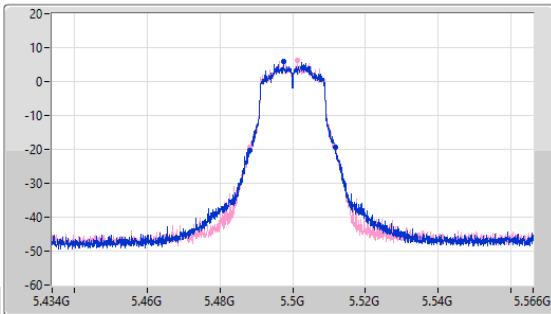
5.47-5.725GHz_802.11n HT20_Nss1,(MCS8)_2TX

EBW

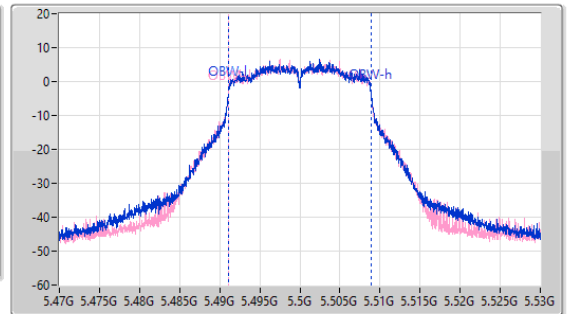
5500MHz

07/03/2023

CF
5.5GHz
Span
132MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.5GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.694M	5.48812G	5.511814G	17.811M	5.491094G	5.508906G	Inf	1
23.298M	5.488252G	5.51155G	17.781M	5.491094G	5.508876G	Inf	2

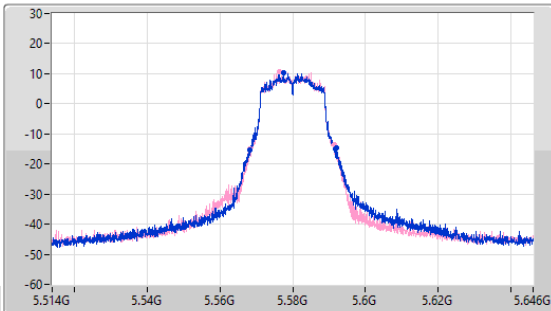
5.47-5.725GHz_802.11n HT20_Nss1,(MCS8)_2TX

EBW

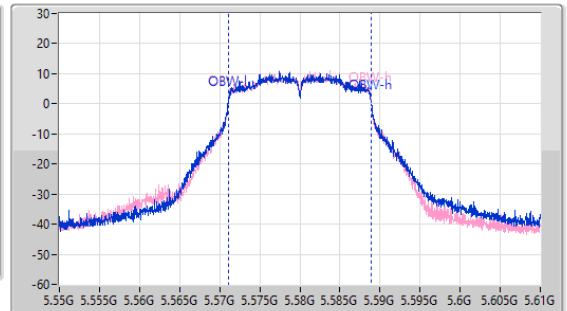
5580MHz

07/03/2023

CF
5.58GHz
Span
132MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.58GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.024M	5.56812G	5.592144G	17.841M	5.571064G	5.588906G	Inf	1
23.1M	5.568384G	5.591484G	17.721M	5.571124G	5.588846G	Inf	2

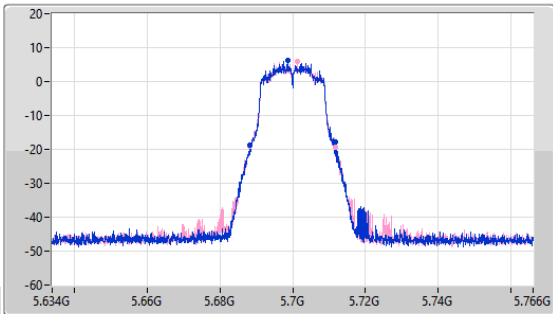
5.47-5.725GHz_802.11n_HT20_Nss1,(MCS8)_2TX

EBW

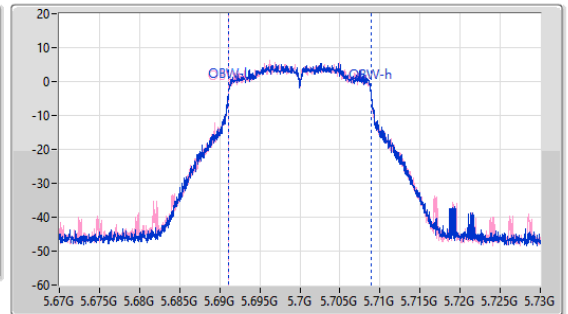
5700MHz

23/05/2023

CF: 5.7GHz
 Span: 132MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.7GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.496M	5.688186G	5.711682G	17.781M	5.691094G	5.708876G	Inf	1
23.496M	5.688384G	5.71188G	17.781M	5.691094G	5.708876G	Inf	2

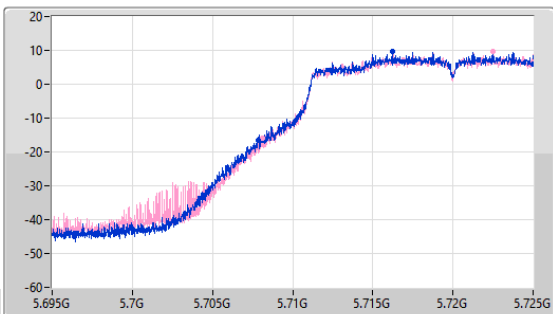
5.47-5.725GHz_802.11n_HT20_Nss1,(MCS8)_2TX

EBW

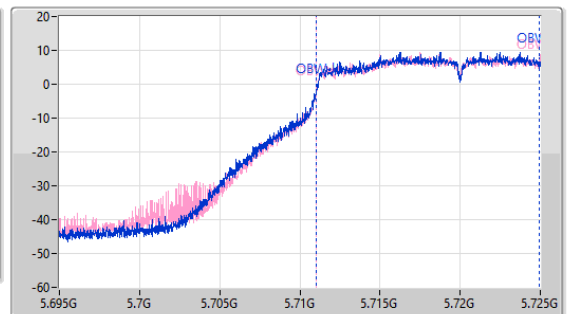
5720MHz Straddle 5.47-5.725GHz

23/05/2023

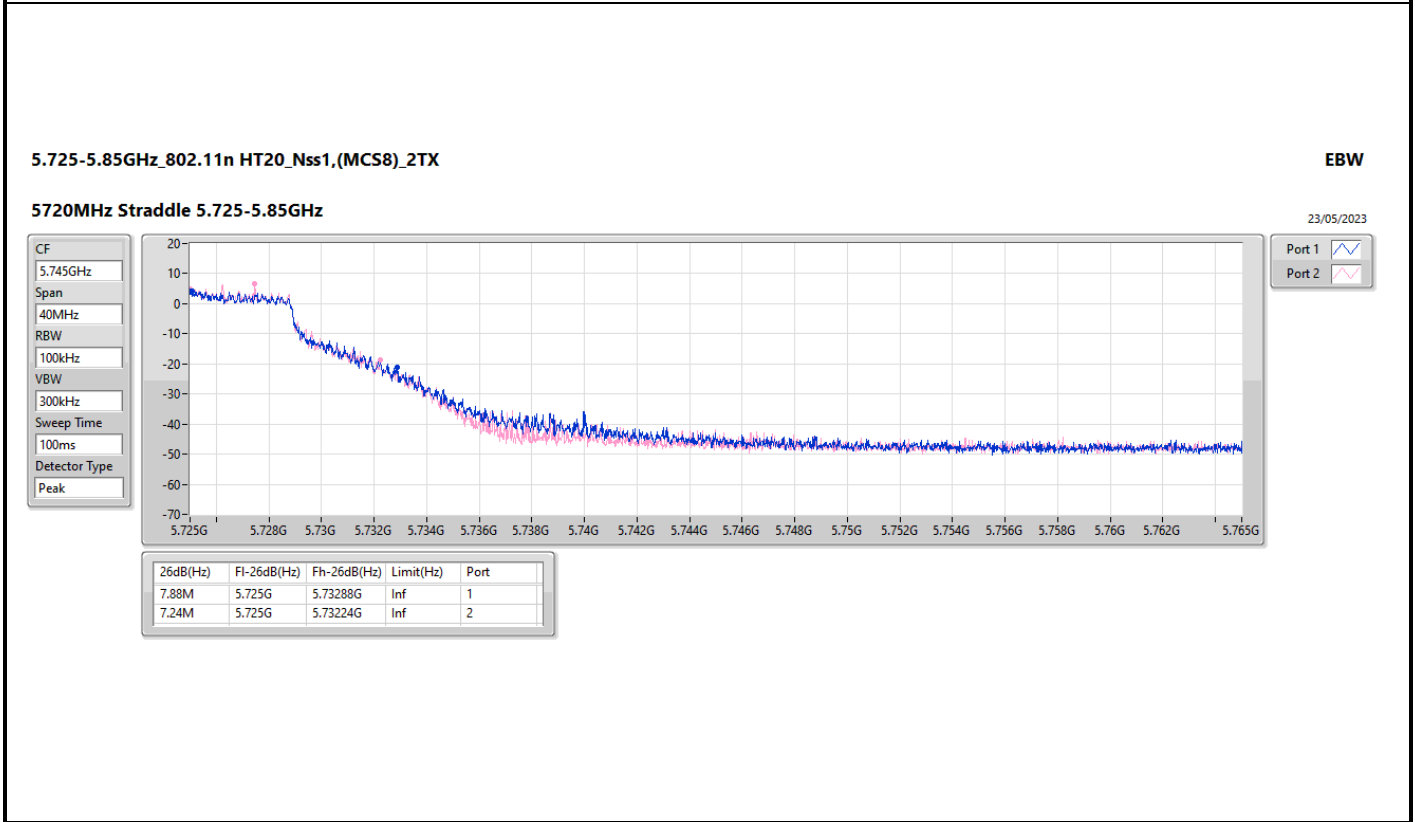
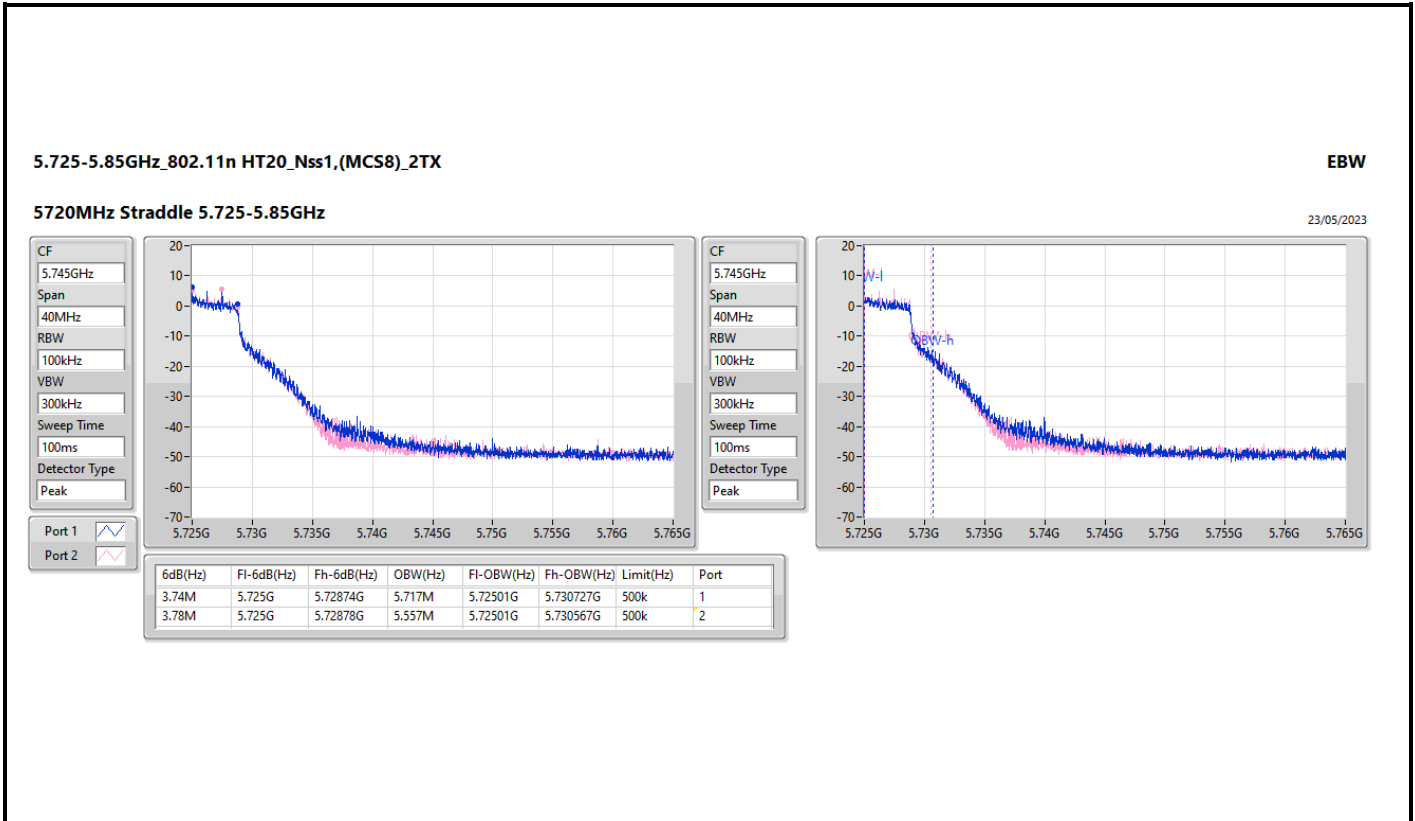
CF: 5.71GHz
 Span: 30MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak

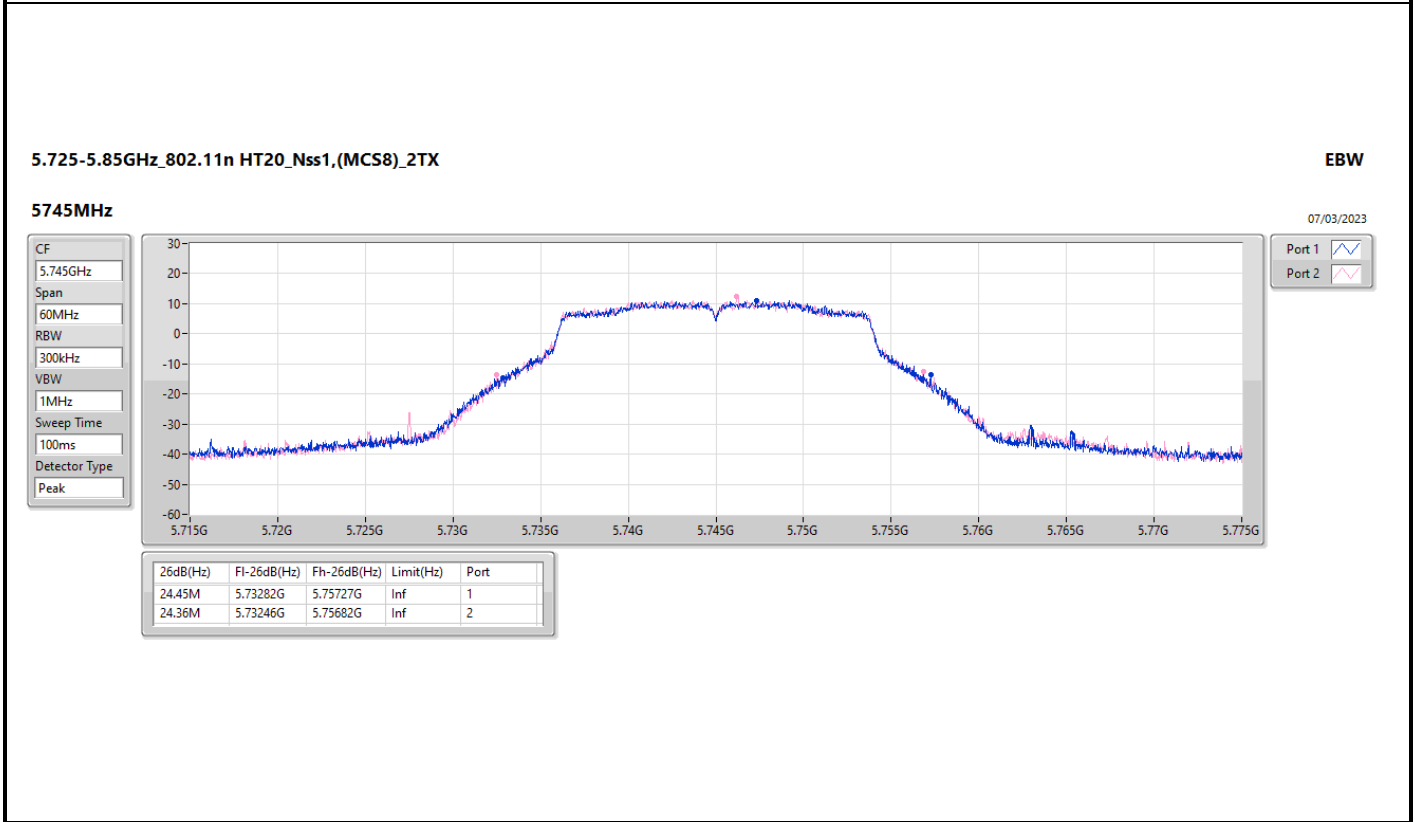
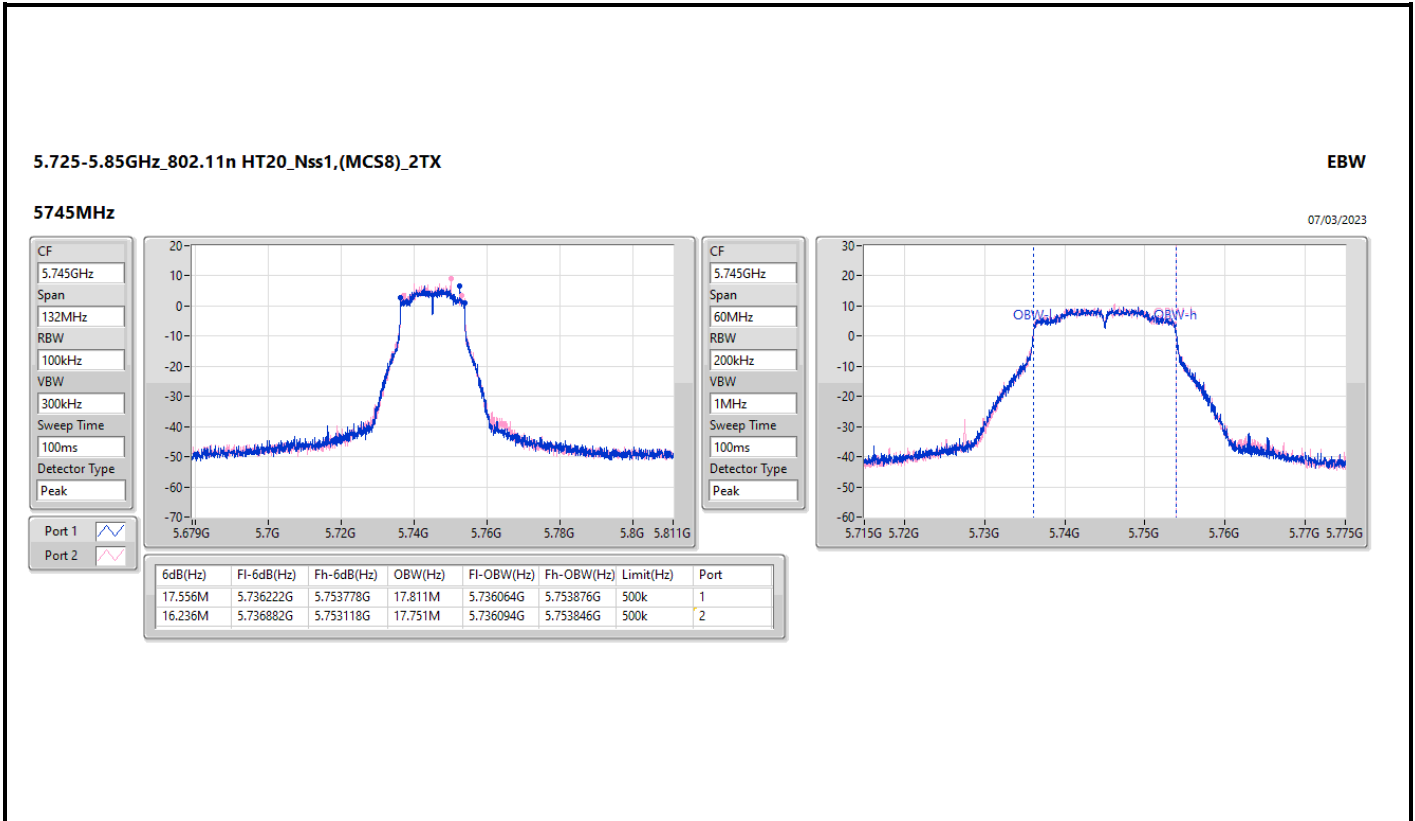


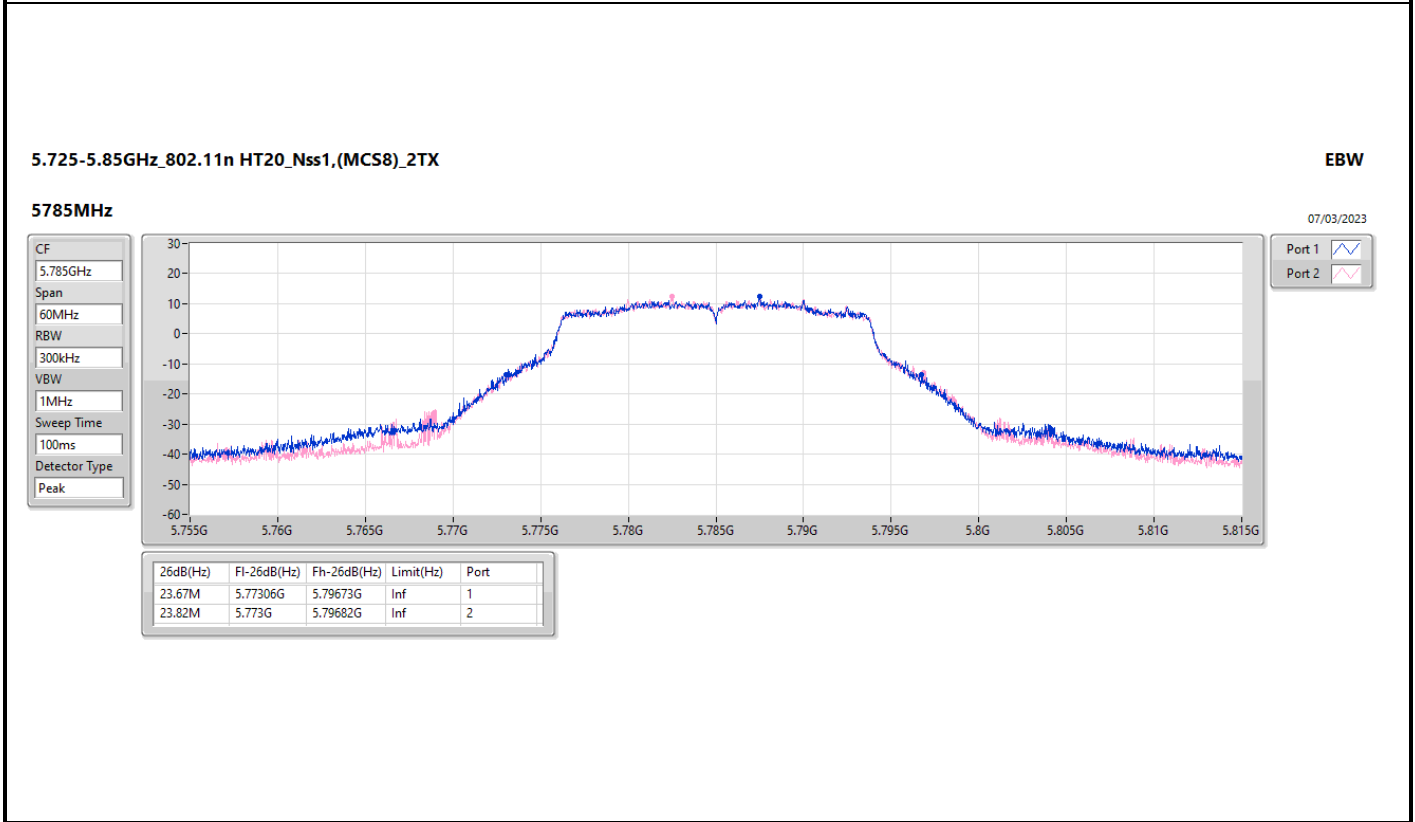
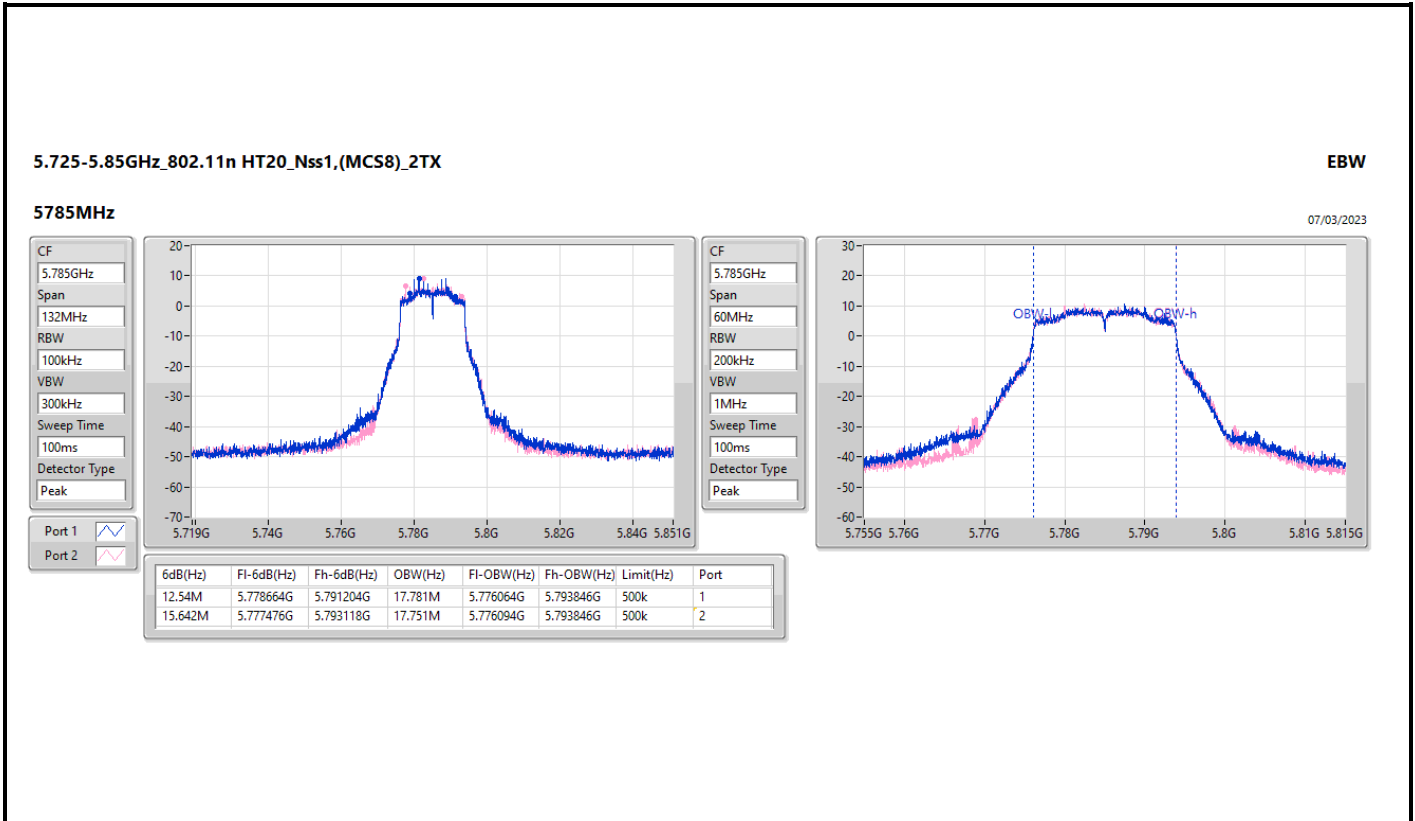
CF: 5.71GHz
 Span: 30MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak

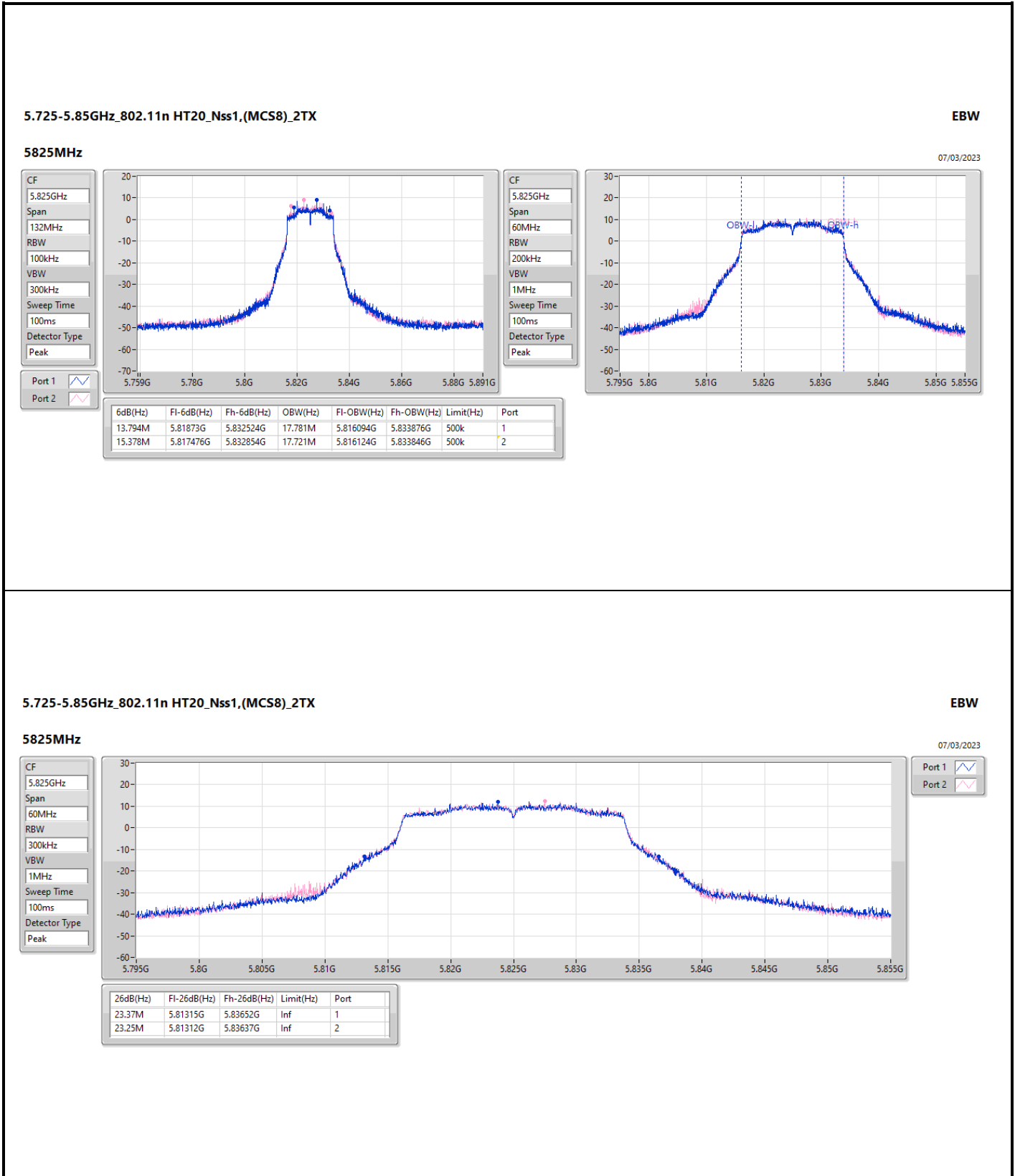


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.175M	5.707825G	5.725G	13.913M	5.711019G	5.724933G	Inf	1
16.89M	5.70811G	5.725G	13.898M	5.711049G	5.724948G	Inf	2







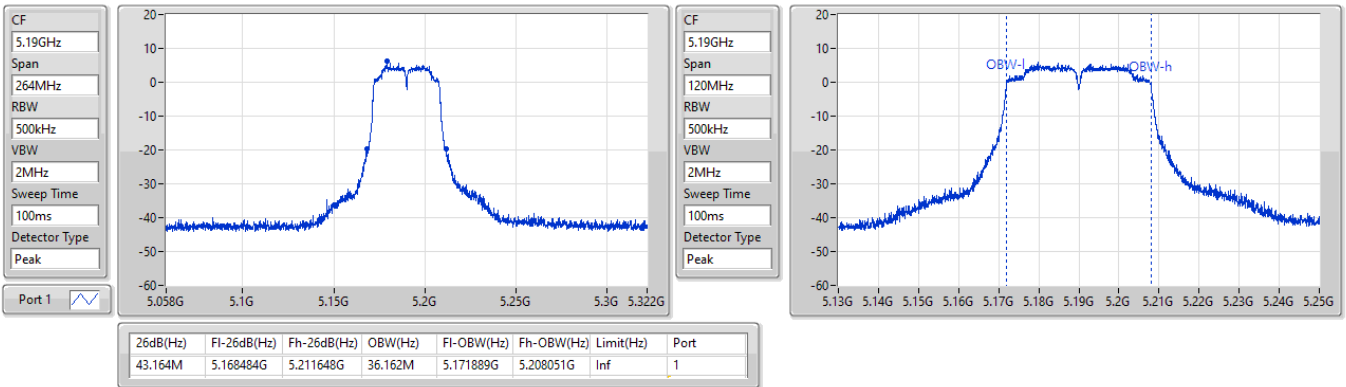


5.15-5.25GHz 802.11n HT40_Nss1,(MCS0)_1TX(Port1)

EBW

5190MHz

27/02/2023

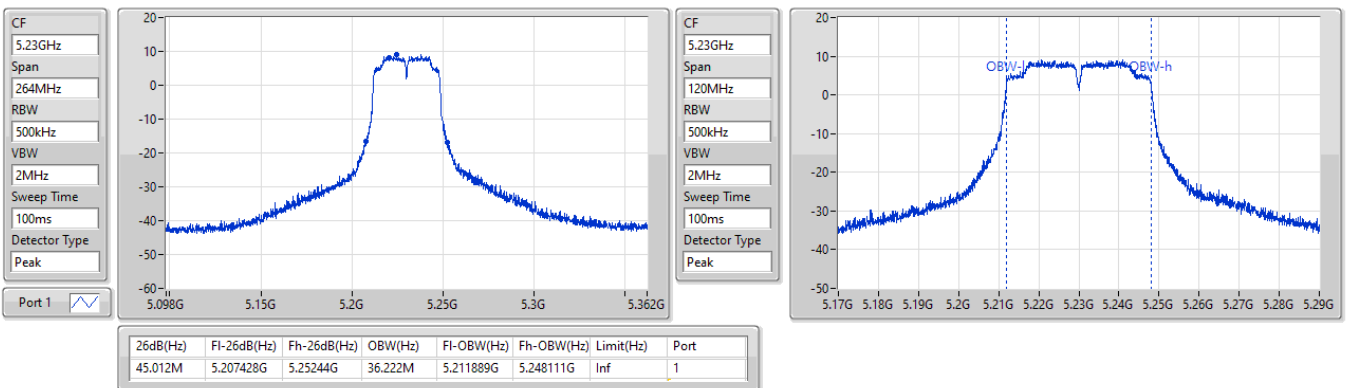


5.15-5.25GHz 802.11n HT40_Nss1,(MCS0)_1TX(Port1)

EBW

5230MHz

27/02/2023

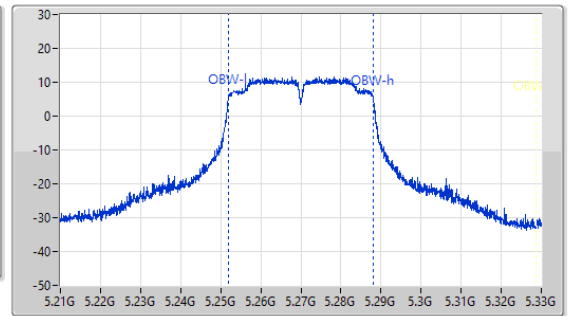
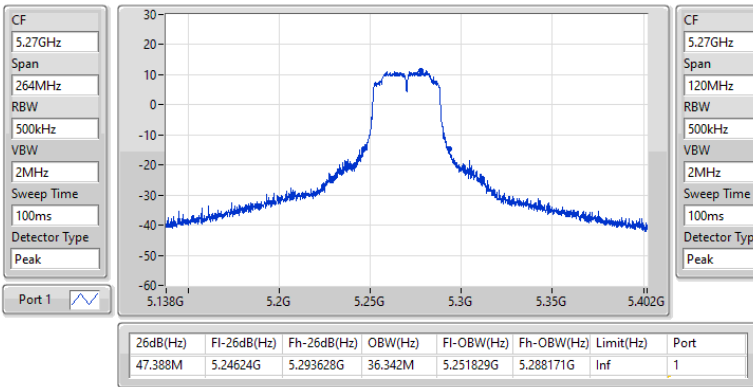


5.25-5.35GHz_802.11n_HT40_Nss1,(MCS0)_1TX(Port1)

EBW

5270MHz

27/02/2023

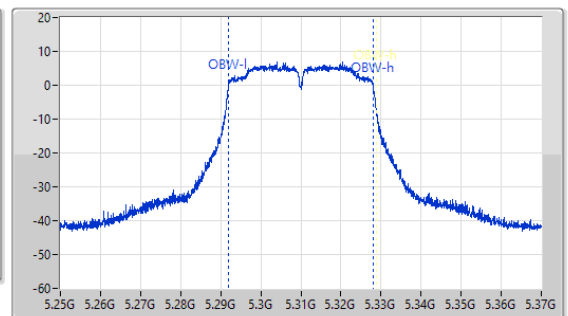
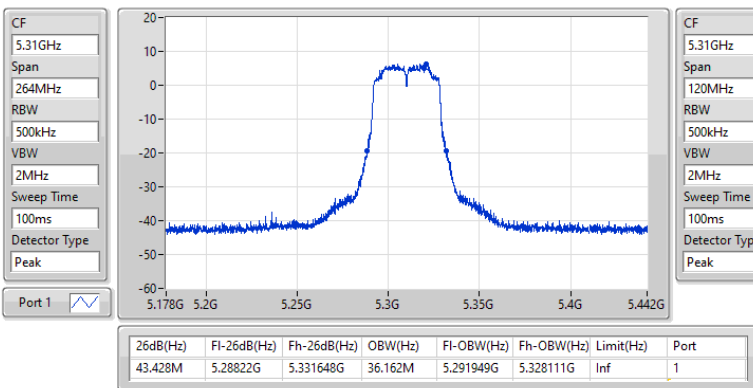


5.25-5.35GHz_802.11n_HT40_Nss1,(MCS0)_1TX(Port1)

EBW

5310MHz

27/02/2023

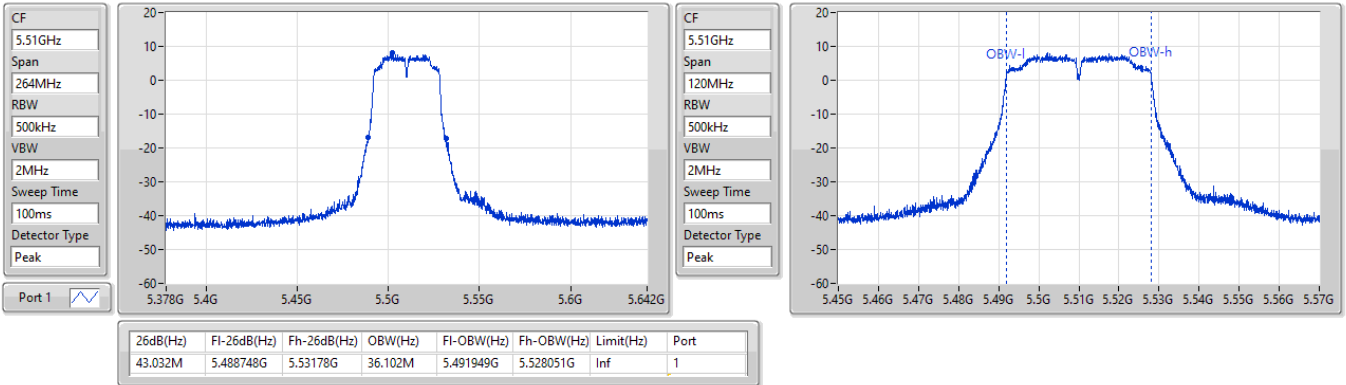


5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port1)

EBW

5510MHz

27/02/2023

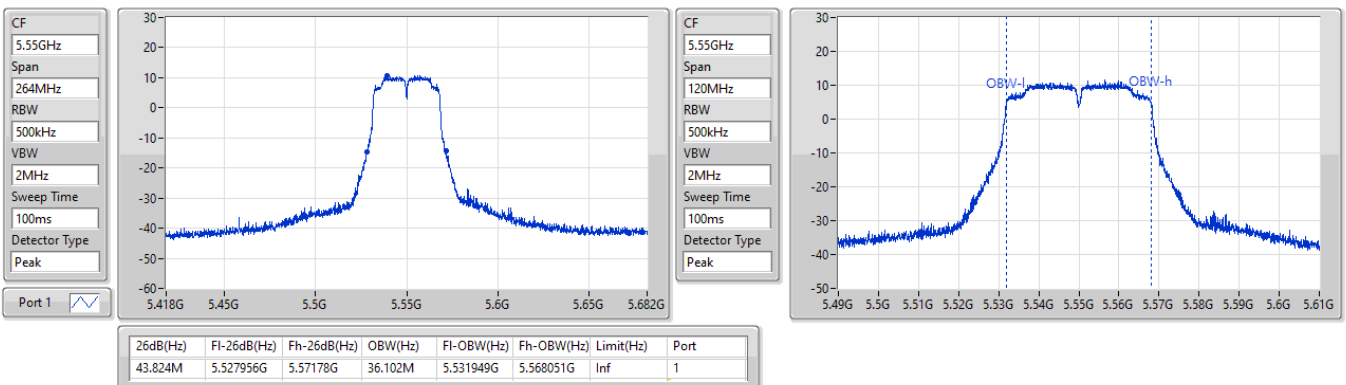


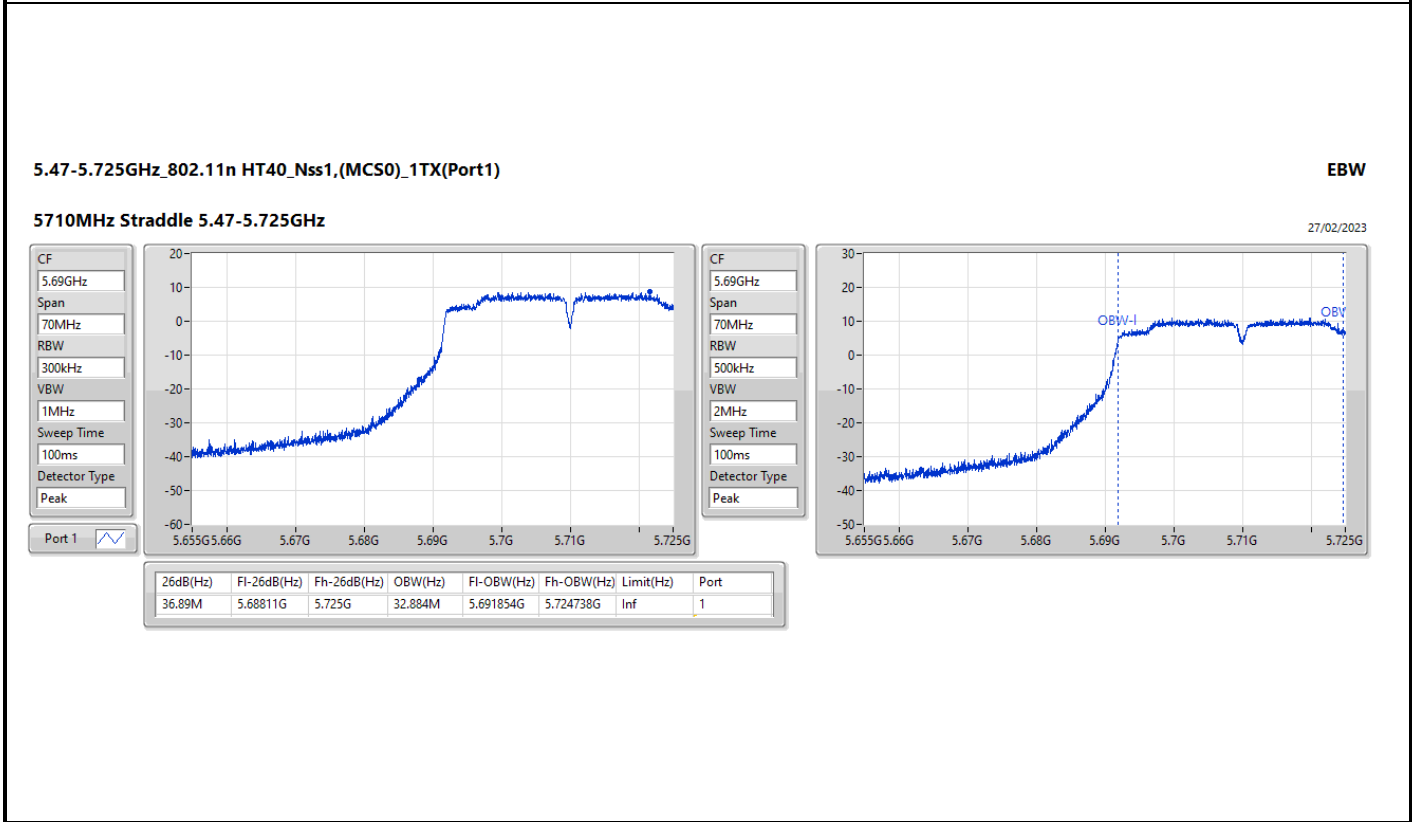
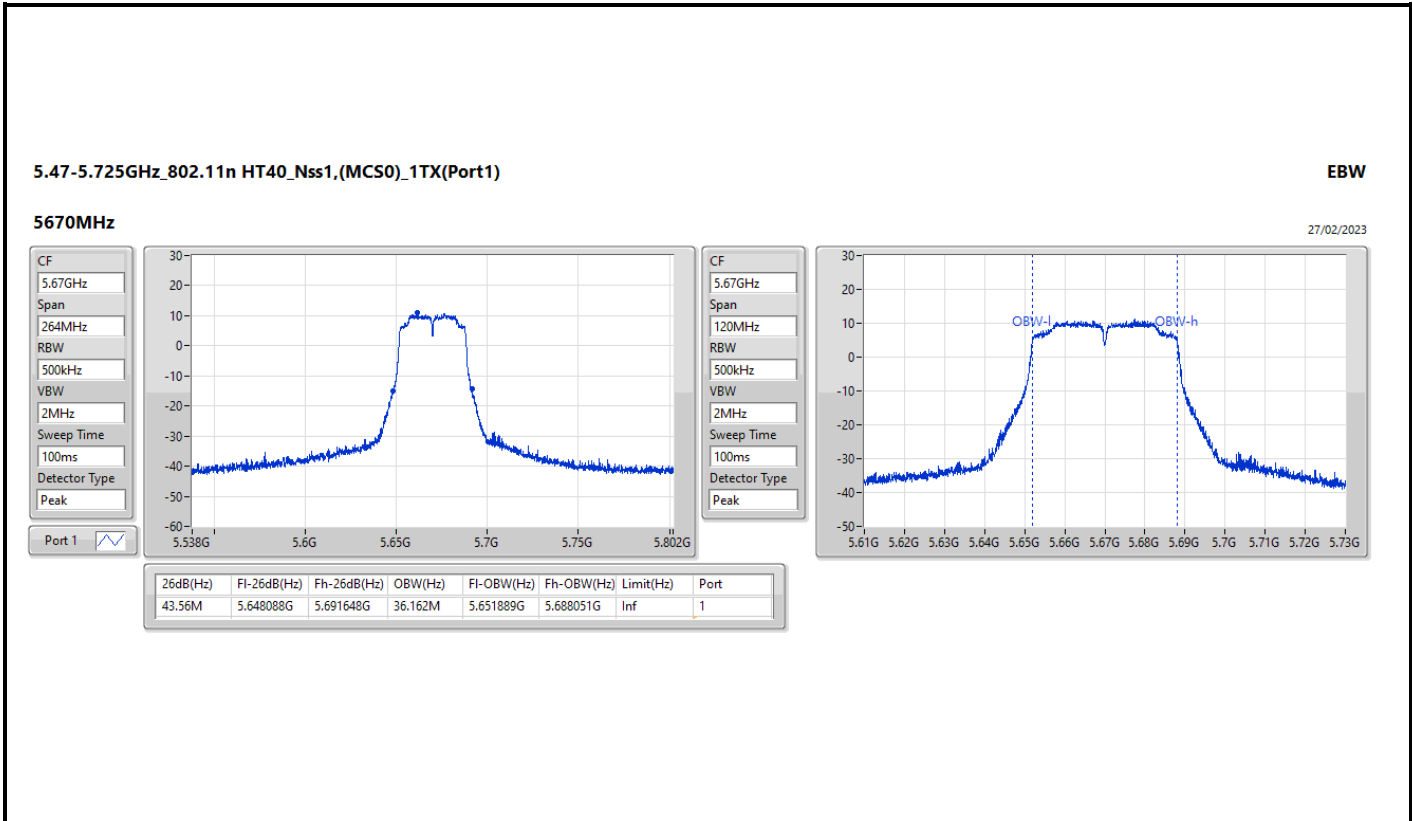
5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port1)

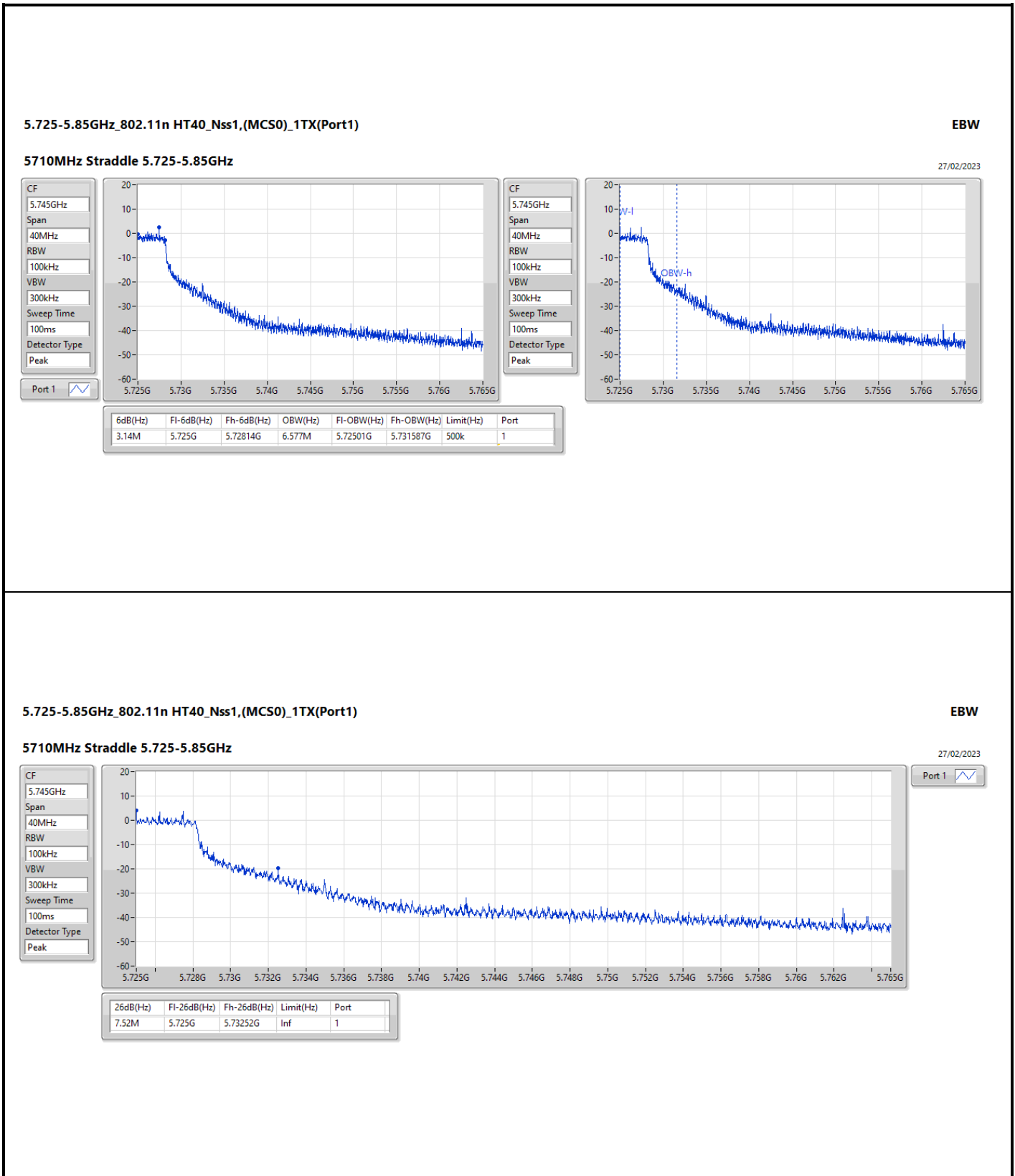
EBW

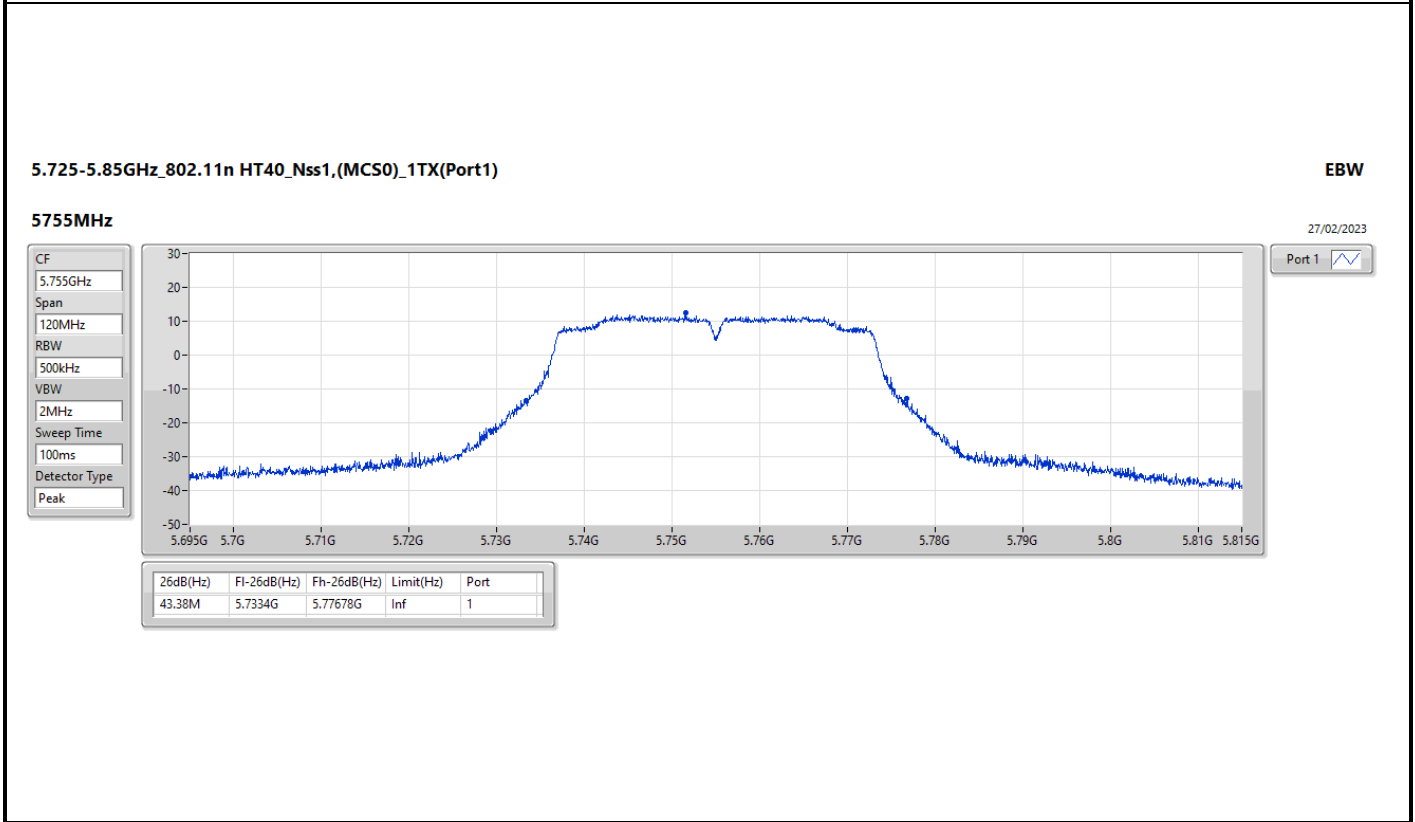
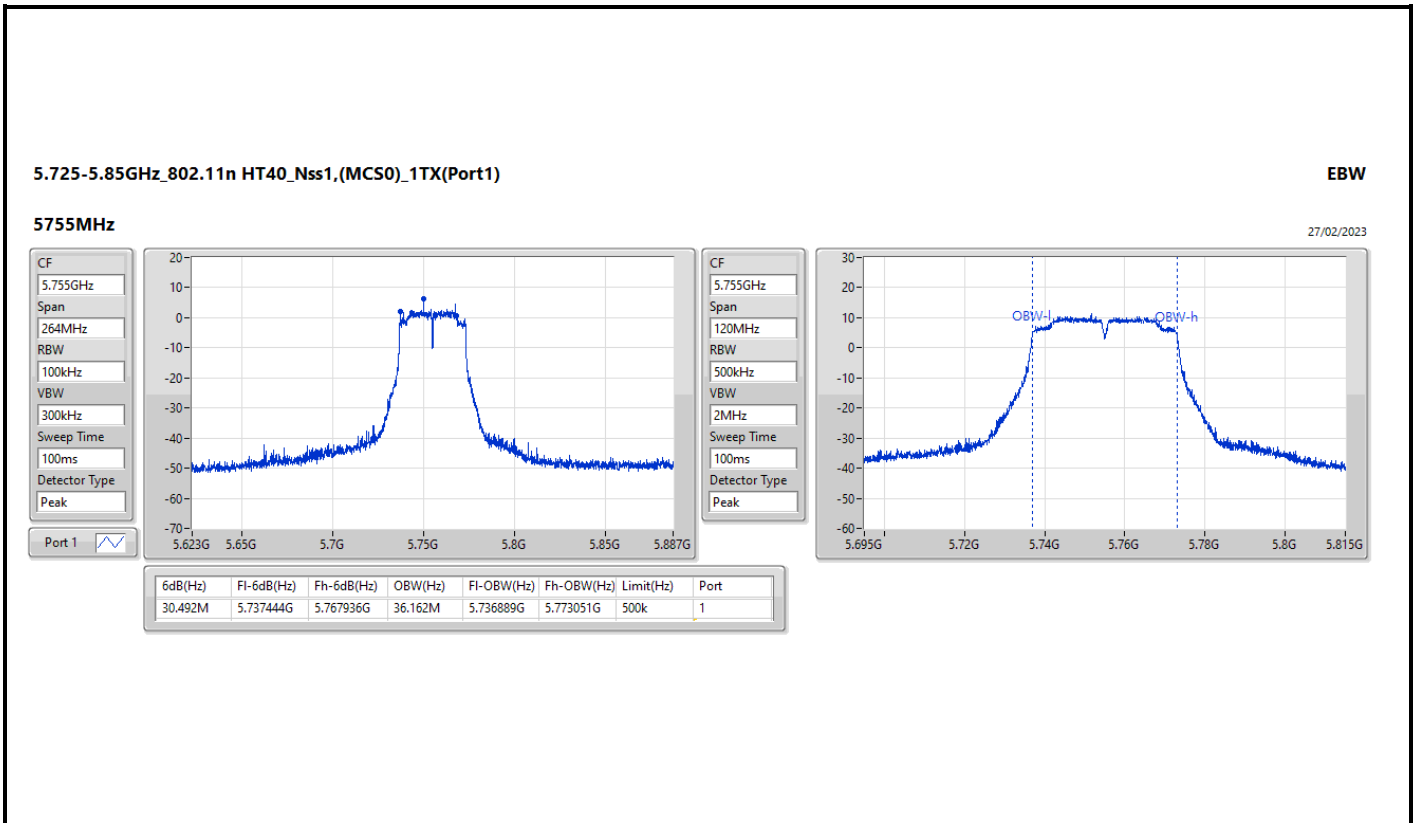
5550MHz

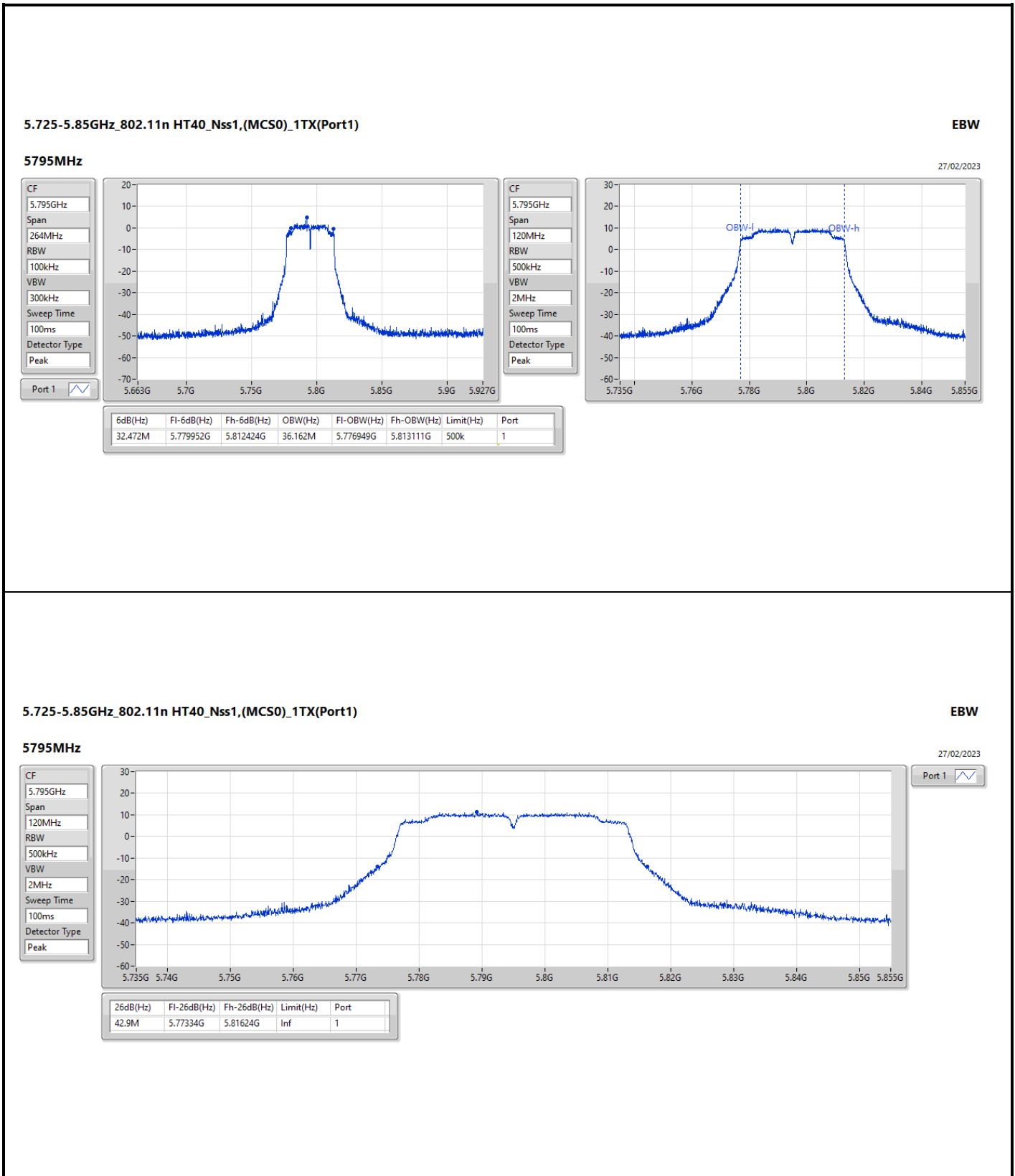
27/02/2023

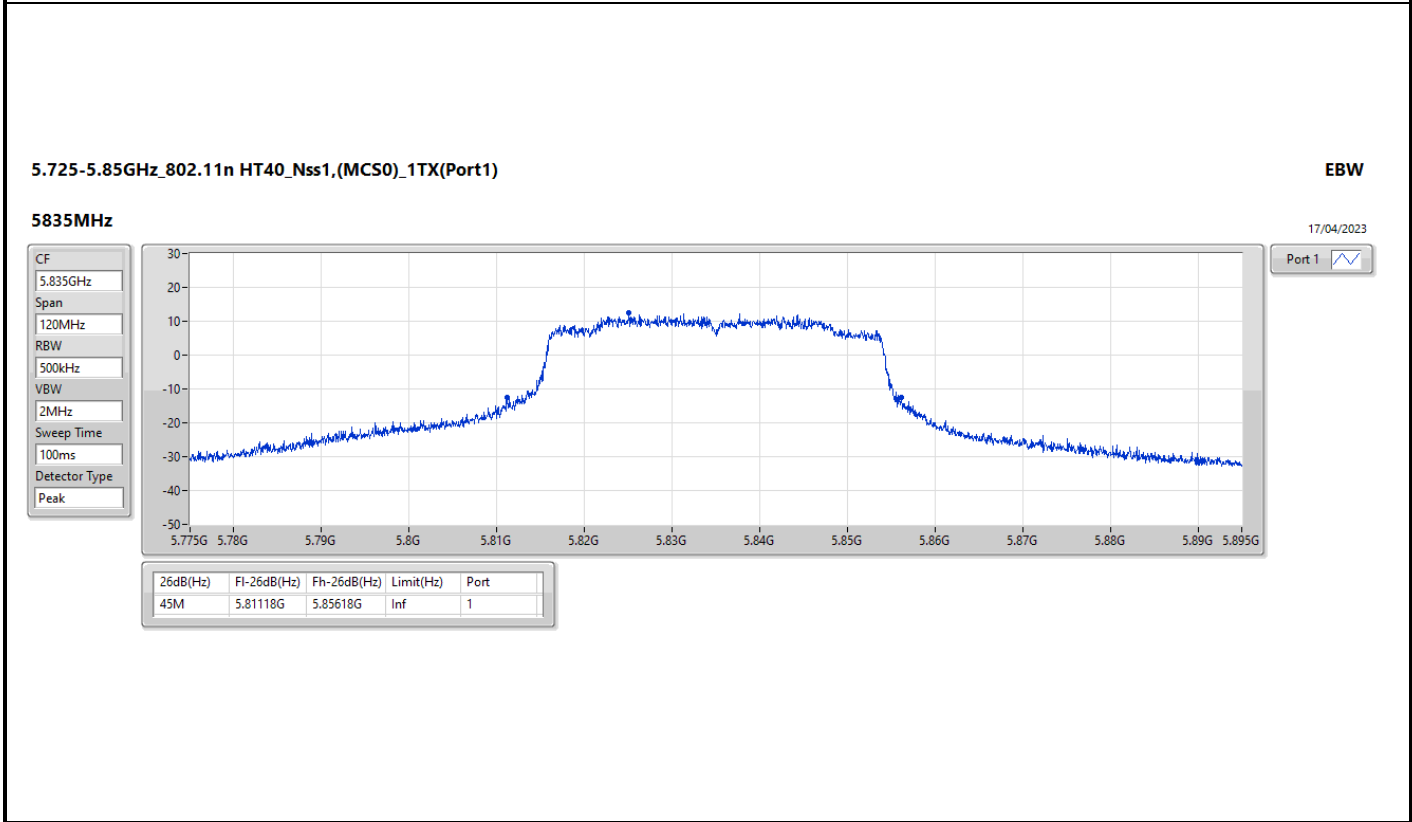
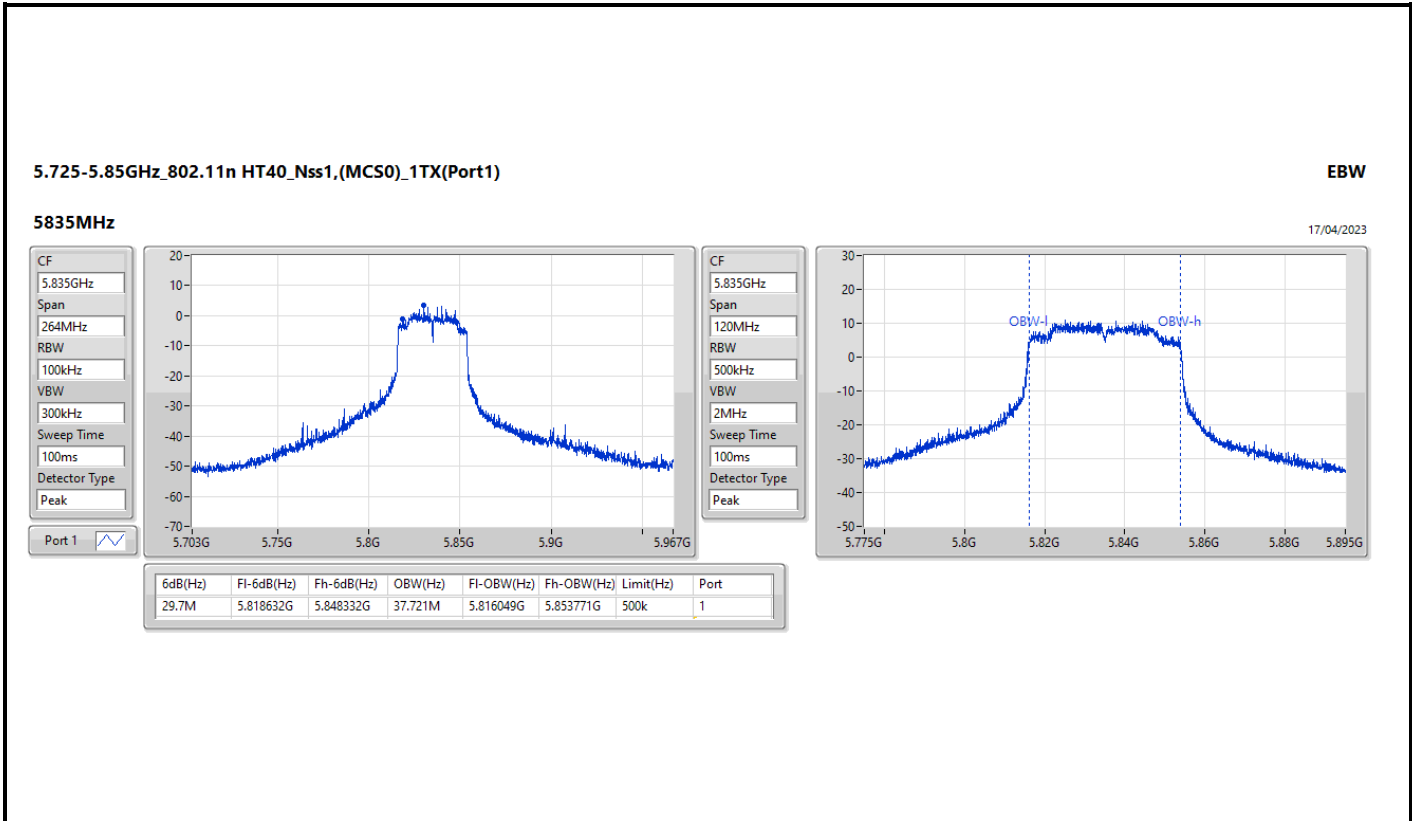










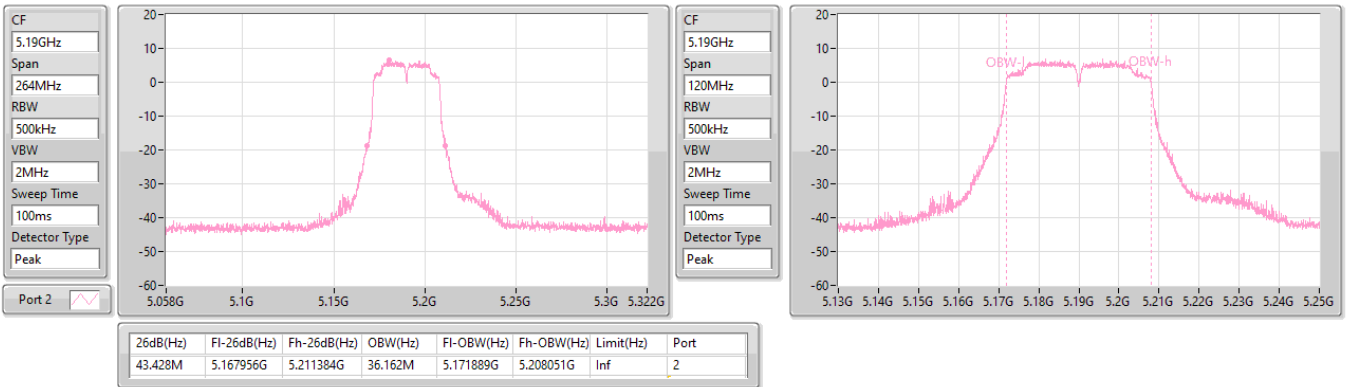


5.15-5.25GHz 802.11n HT40_Nss1,(MCS0)_1TX(Port2)

EBW

5190MHz

27/02/2023

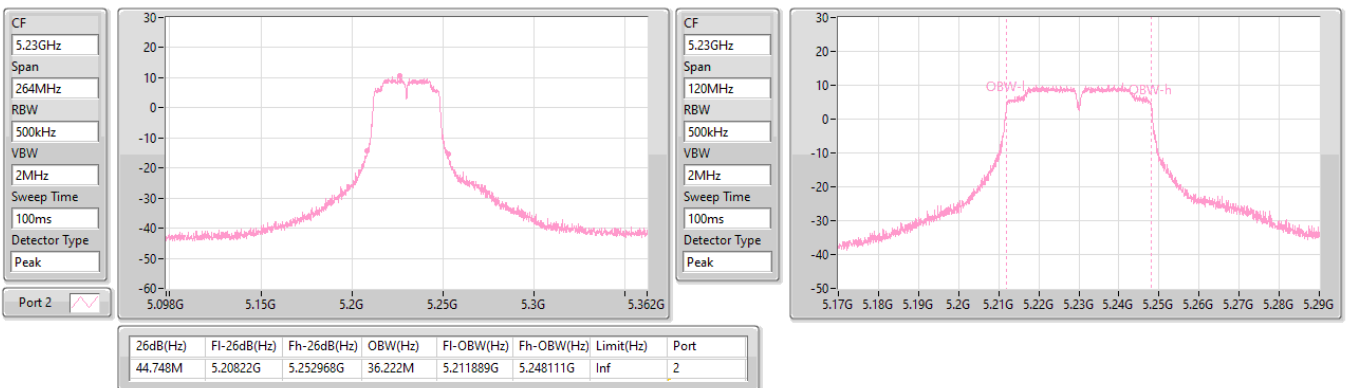


5.15-5.25GHz 802.11n HT40_Nss1,(MCS0)_1TX(Port2)

EBW

5230MHz

27/02/2023

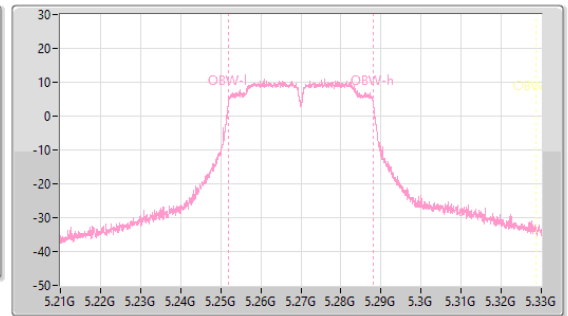
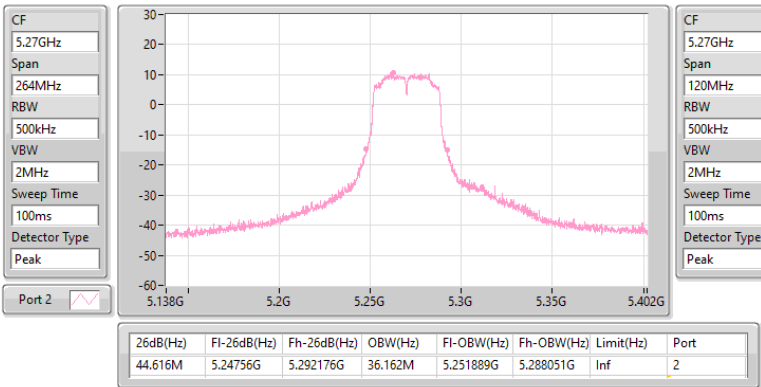


5.25-5.35GHz 802.11n HT40_Nss1,(MCS0)_1TX(Port2)

EBW

5270MHz

27/02/2023

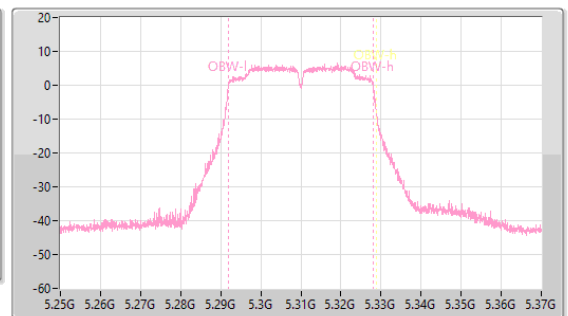
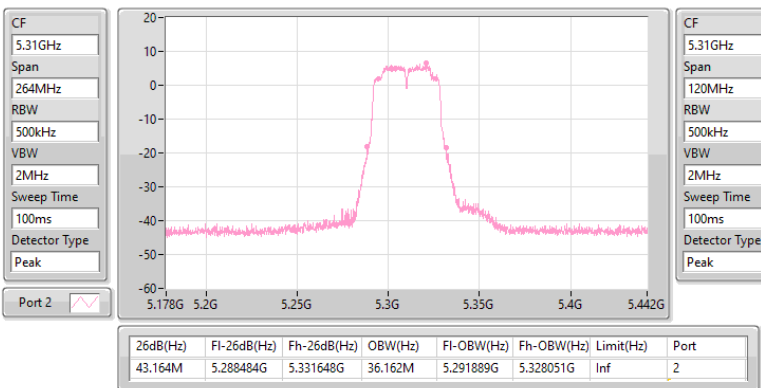


5.25-5.35GHz 802.11n HT40_Nss1,(MCS0)_1TX(Port2)

EBW

5310MHz

27/02/2023

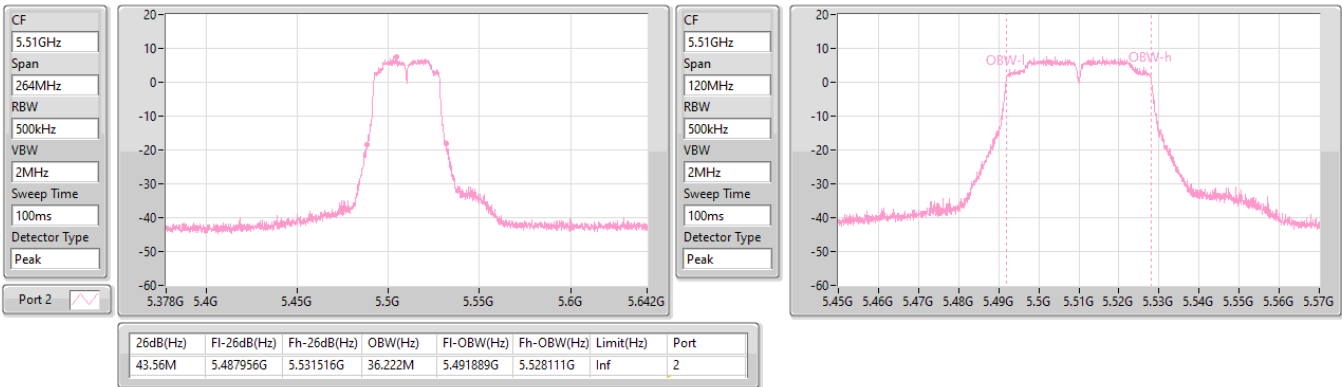


5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port2)

EBW

5510MHz

27/02/2023

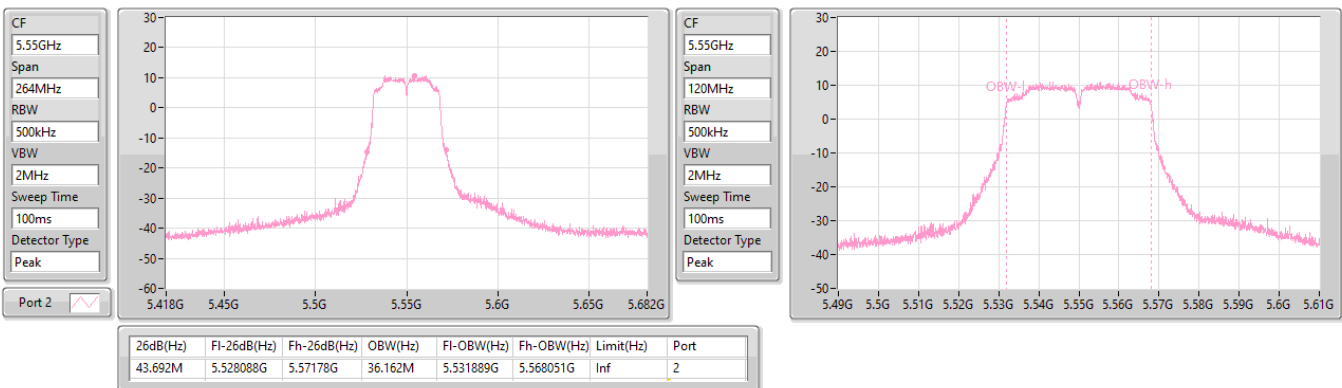


5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port2)

EBW

5550MHz

27/02/2023

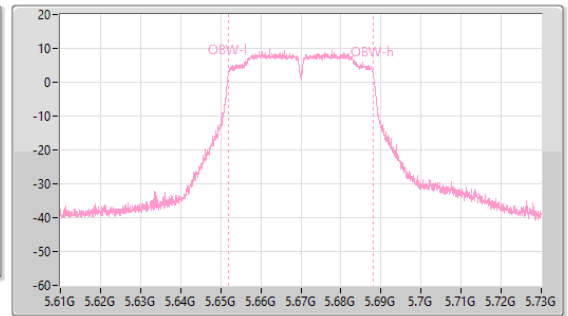
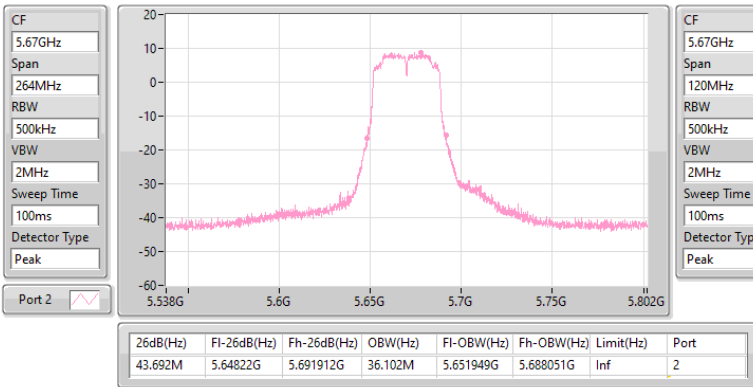


5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port2)

EBW

5670MHz

27/02/2023

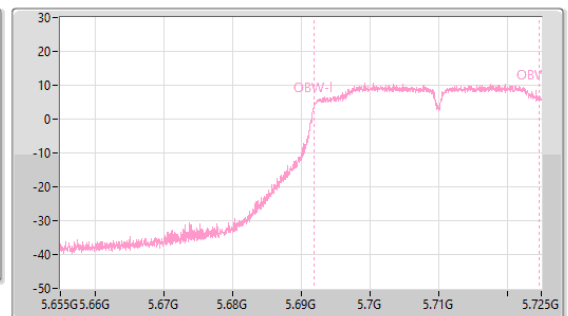
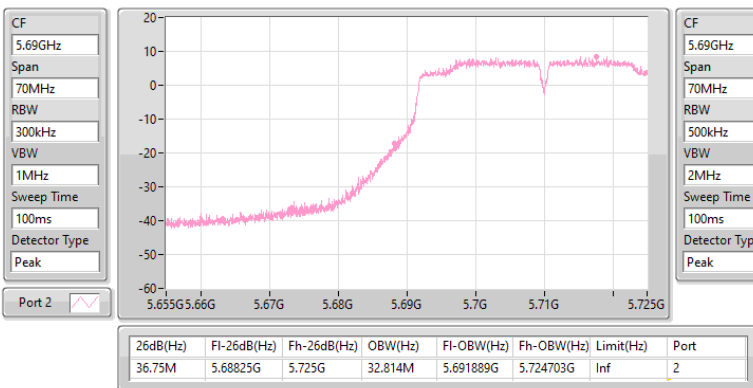


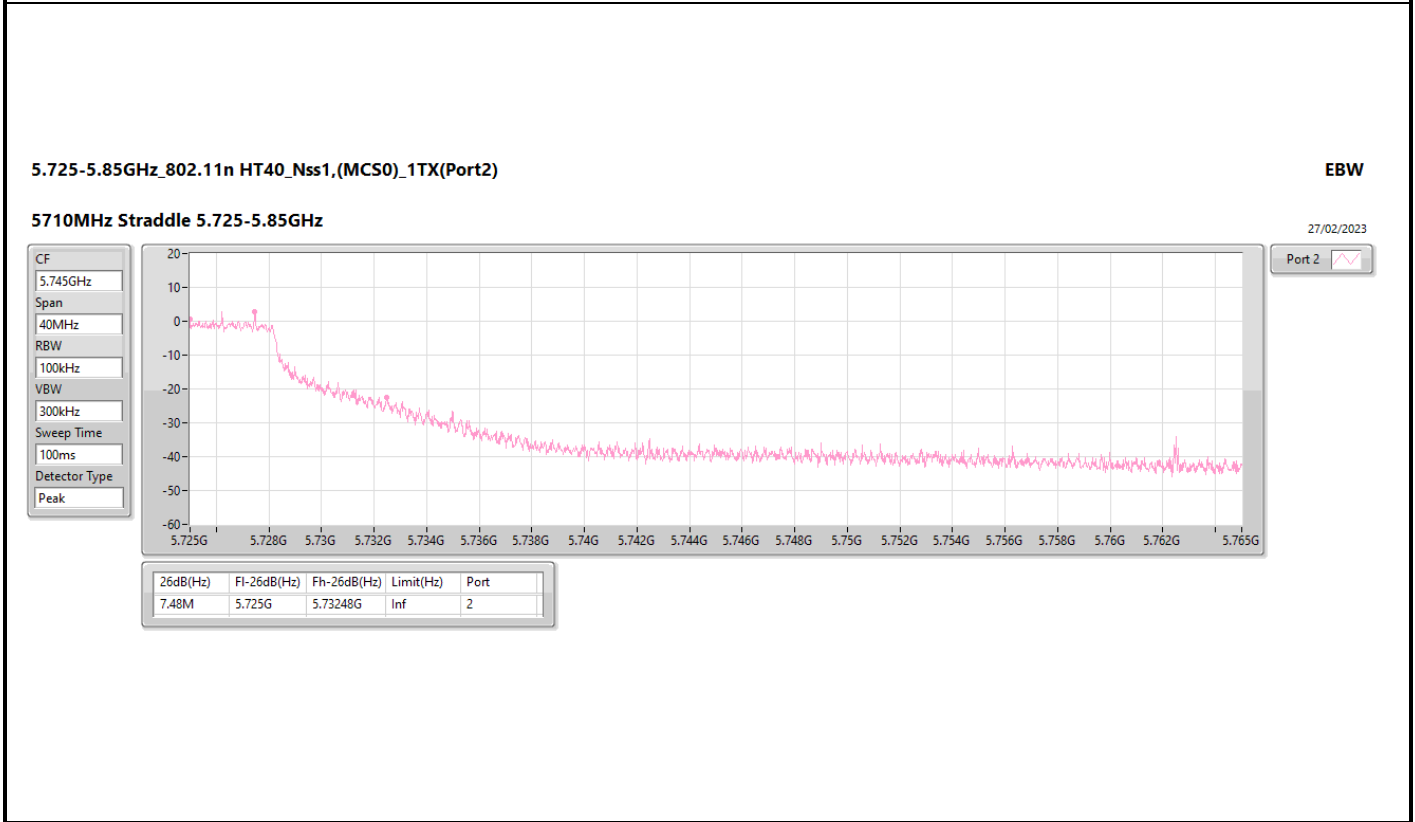
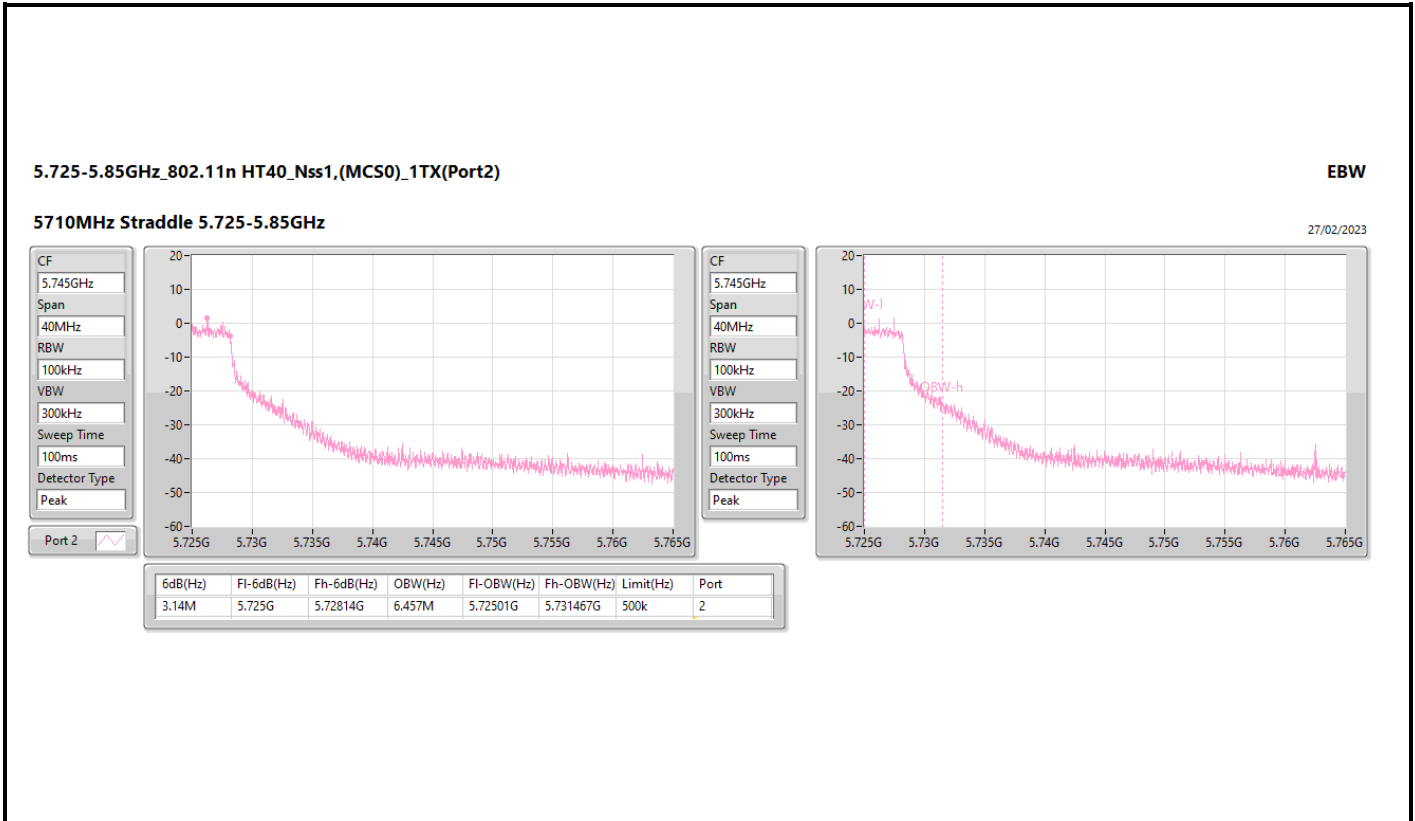
5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port2)

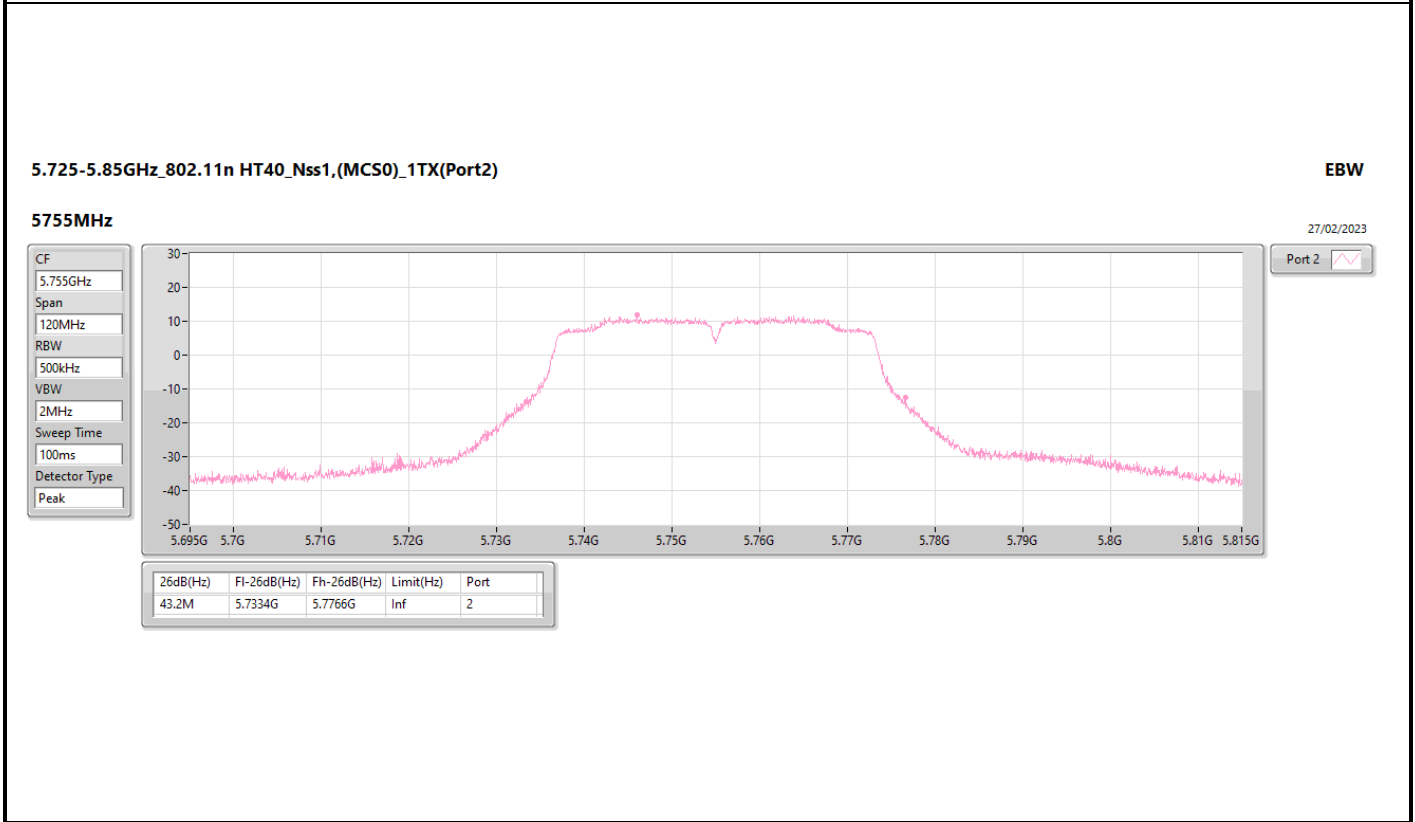
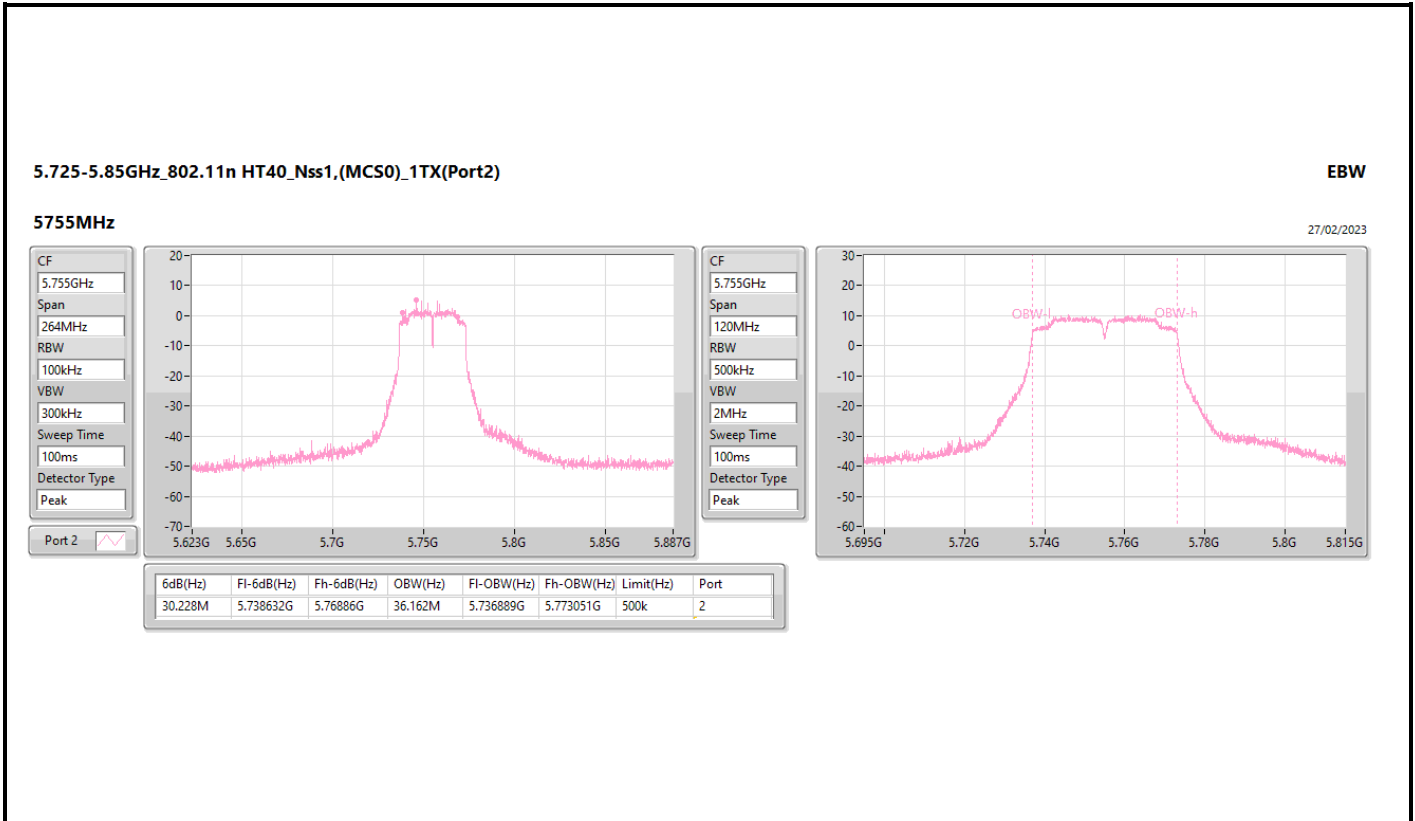
EBW

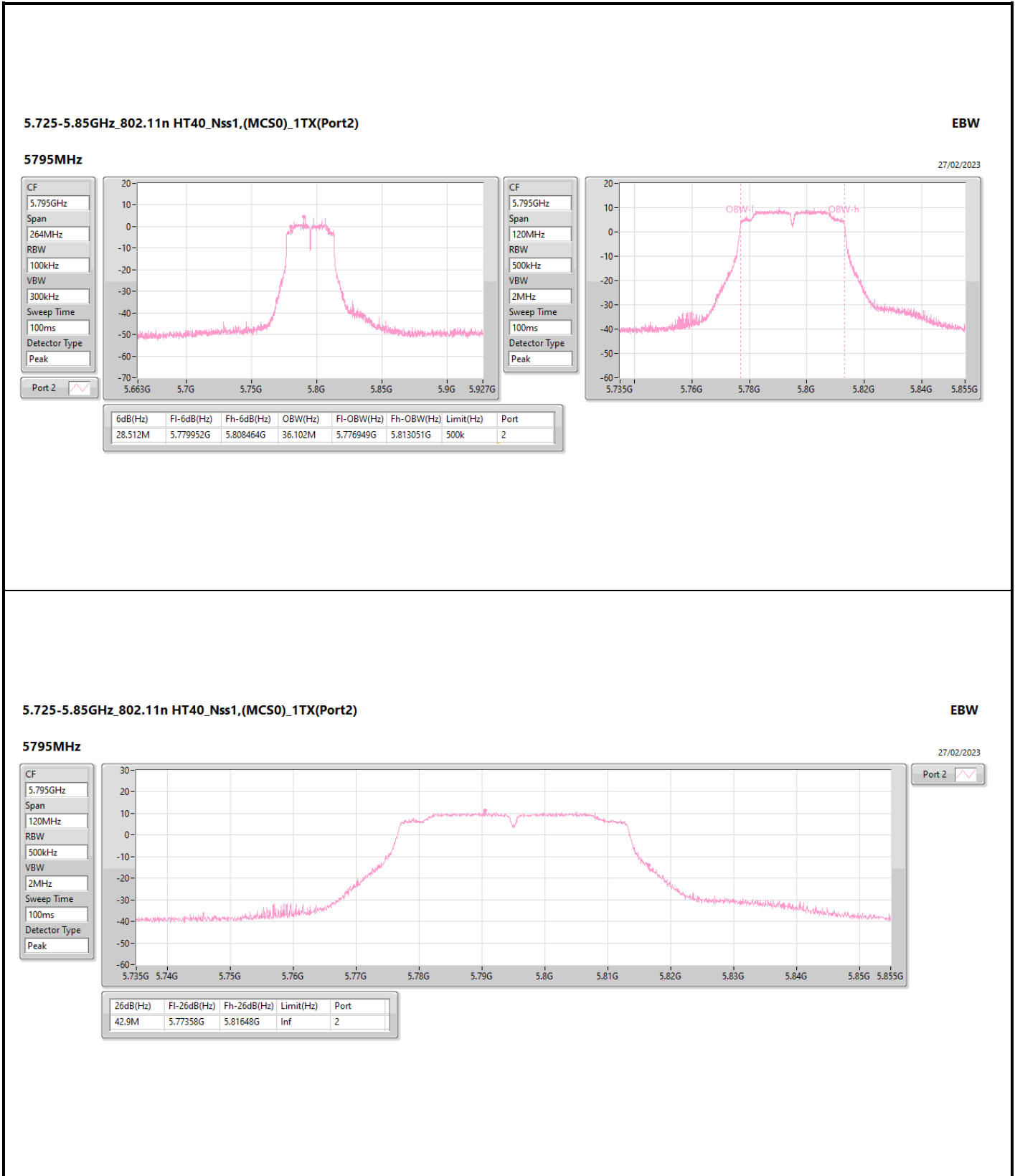
5710MHz Straddle 5.47-5.725GHz

27/02/2023









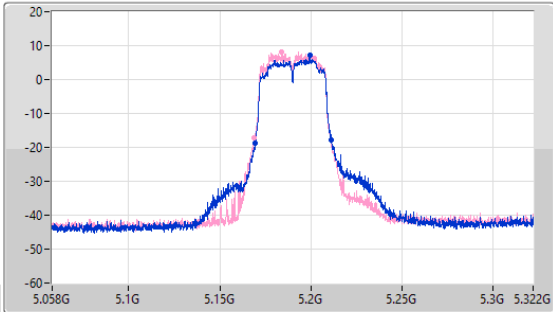
5.15-5.25GHz_802.11n_HT40_Nss1,(MCS8)_2TX

EBW

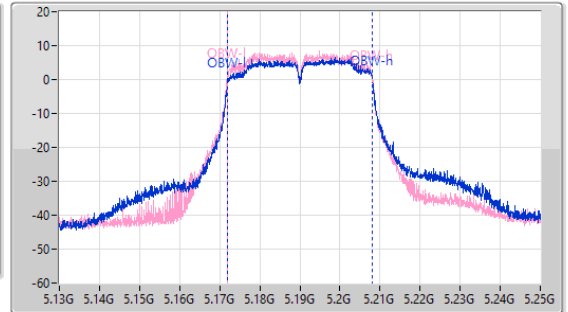
5190MHz

07/03/2023

CF: 5.19GHz
 Span: 264MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



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



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.108M	5.169276G	5.211384G	36.162M	5.172009G	5.208171G	Inf	1
42.504M	5.169616G	5.21112G	36.102M	5.171949G	5.208051G	Inf	2

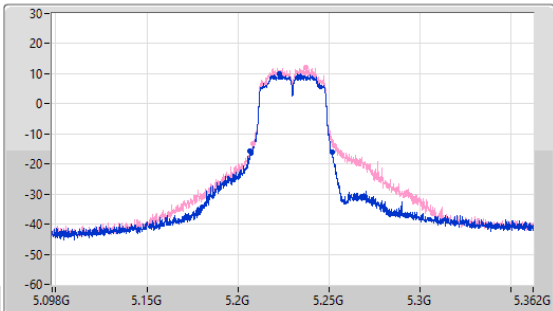
5.15-5.25GHz_802.11n_HT40_Nss1,(MCS8)_2TX

EBW

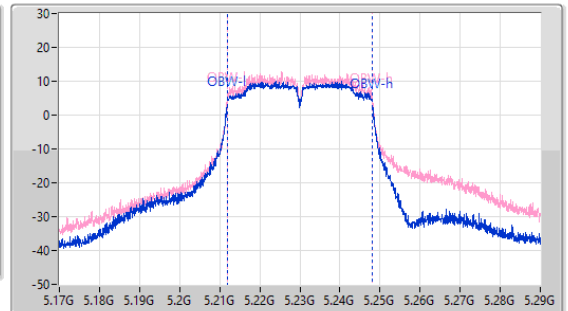
5230MHz

07/03/2023

CF: 5.23GHz
 Span: 264MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



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



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
45.276M	5.206768G	5.252044G	36.162M	5.211889G	5.248051G	Inf	1
44.484M	5.20822G	5.252704G	36.222M	5.211949G	5.248171G	Inf	2

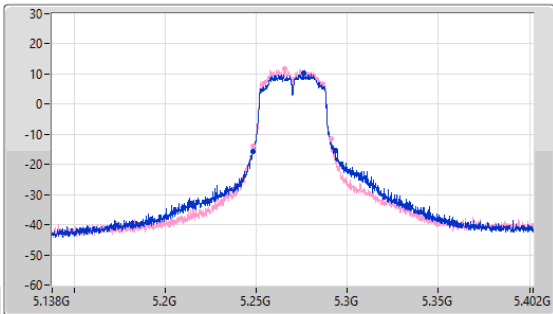
5.25-5.35GHz_802.11n HT40_Nss1,(MCS8)_2TX

EBW

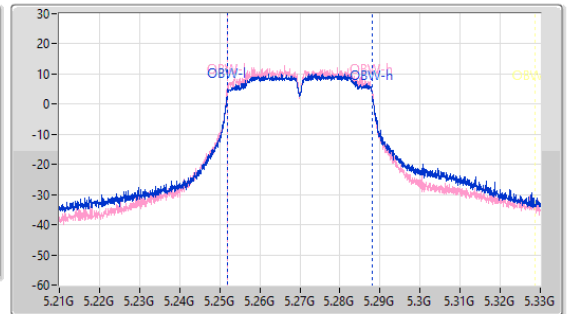
5270MHz

07/03/2023

CF
5.27GHz
Span
264MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.27GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
45.276M	5.247956G	5.293232G	36.222M	5.251949G	5.288171G	Inf	1
42.636M	5.248352G	5.290988G	36.042M	5.251949G	5.287991G	Inf	2

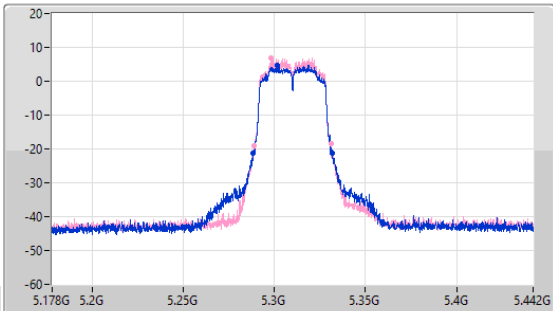
5.25-5.35GHz_802.11n HT40_Nss1,(MCS8)_2TX

EBW

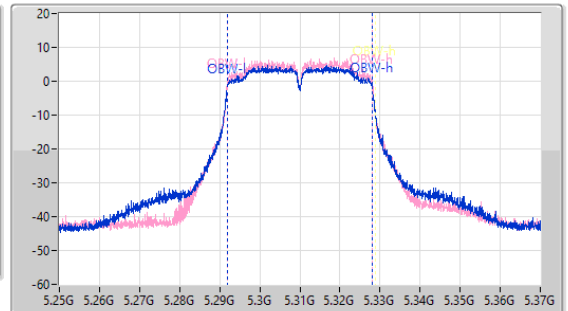
5310MHz

07/03/2023

CF
5.31GHz
Span
264MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.31GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



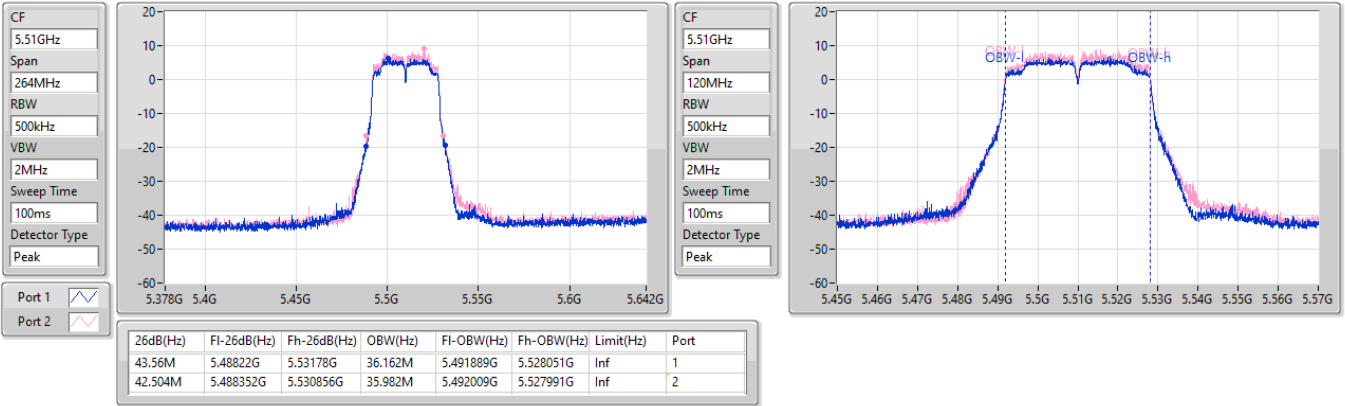
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.428M	5.28822G	5.331648G	36.162M	5.291889G	5.328051G	Inf	1
42.636M	5.288616G	5.331252G	35.982M	5.292009G	5.327991G	Inf	2

5.47-5.725GHz_802.11n HT40_Nss1,(MCS8)_2TX

EBW

5510MHz

07/03/2023

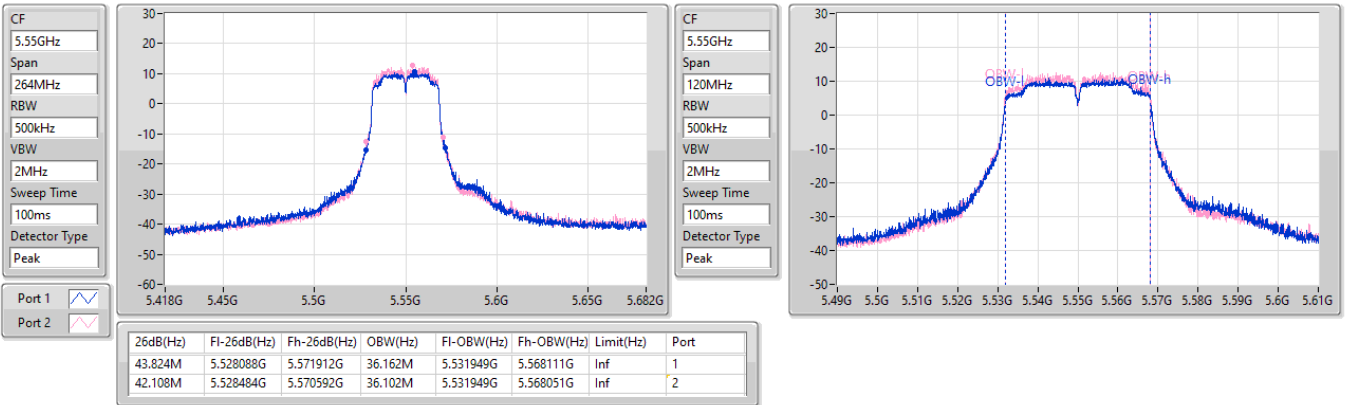


5.47-5.725GHz_802.11n HT40_Nss1,(MCS8)_2TX

EBW

5550MHz

07/03/2023



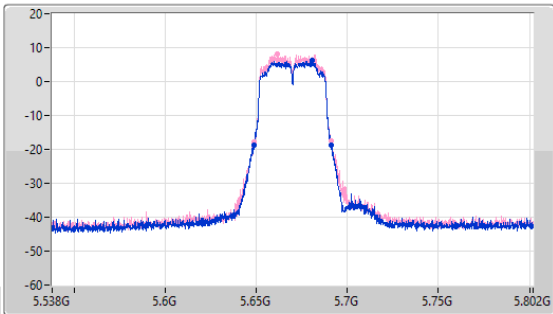
5.47-5.725GHz_802.11n HT40_Nss1,(MCS8)_2TX

EBW

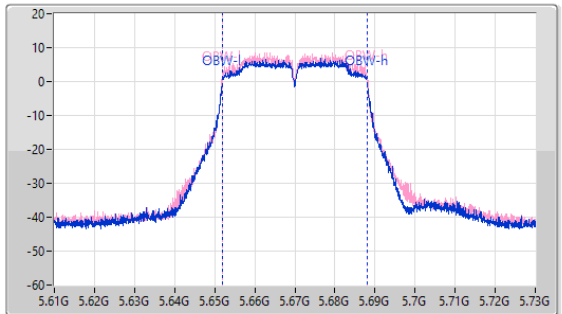
5670MHz

07/03/2023

CF: 5.67GHz
 Span: 264MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.67GHz
 Span: 120MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.768M	5.648616G	5.691384G	36.162M	5.651889G	5.688051G	Inf	1
42.504M	5.648616G	5.69112G	36.042M	5.651949G	5.687991G	Inf	2

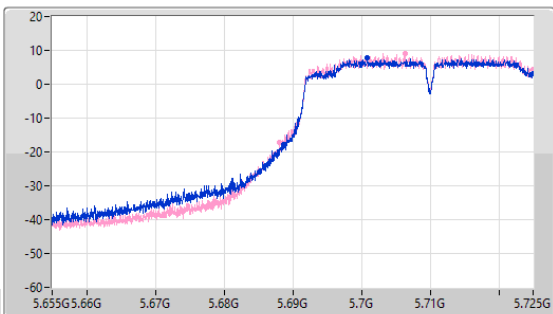
5.47-5.725GHz_802.11n HT40_Nss1,(MCS8)_2TX

EBW

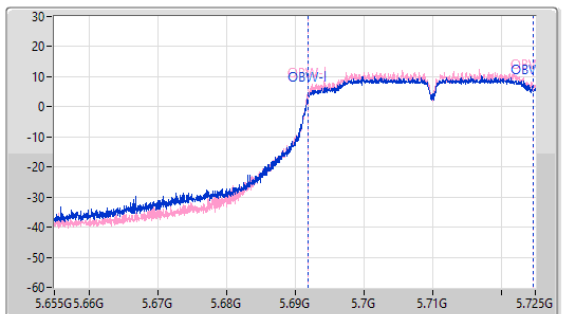
5710MHz Straddle 5.47-5.725GHz

07/03/2023

CF: 5.69GHz
 Span: 70MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.69GHz
 Span: 70MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



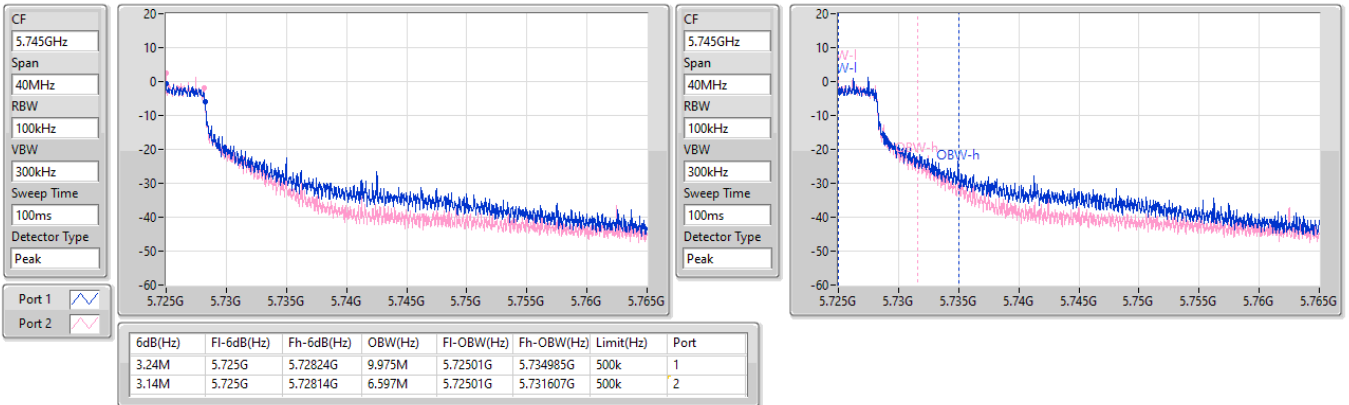
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.33M	5.68867G	5.725G	32.814M	5.691924G	5.724738G	Inf	1
36.96M	5.68804G	5.725G	32.779M	5.691959G	5.724738G	Inf	2

5.725-5.85GHz_802.11n HT40_Nss1,(MCS8)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

07/03/2023

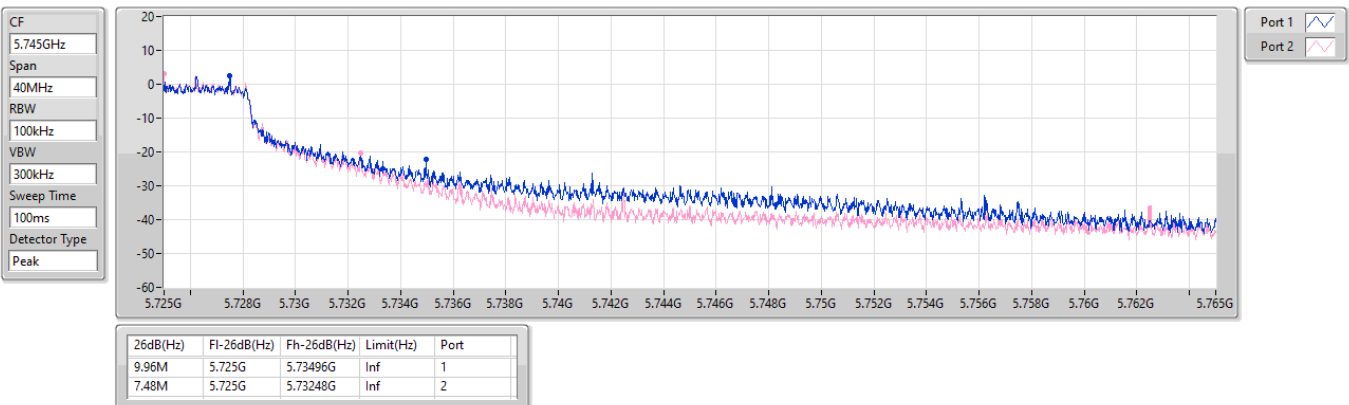


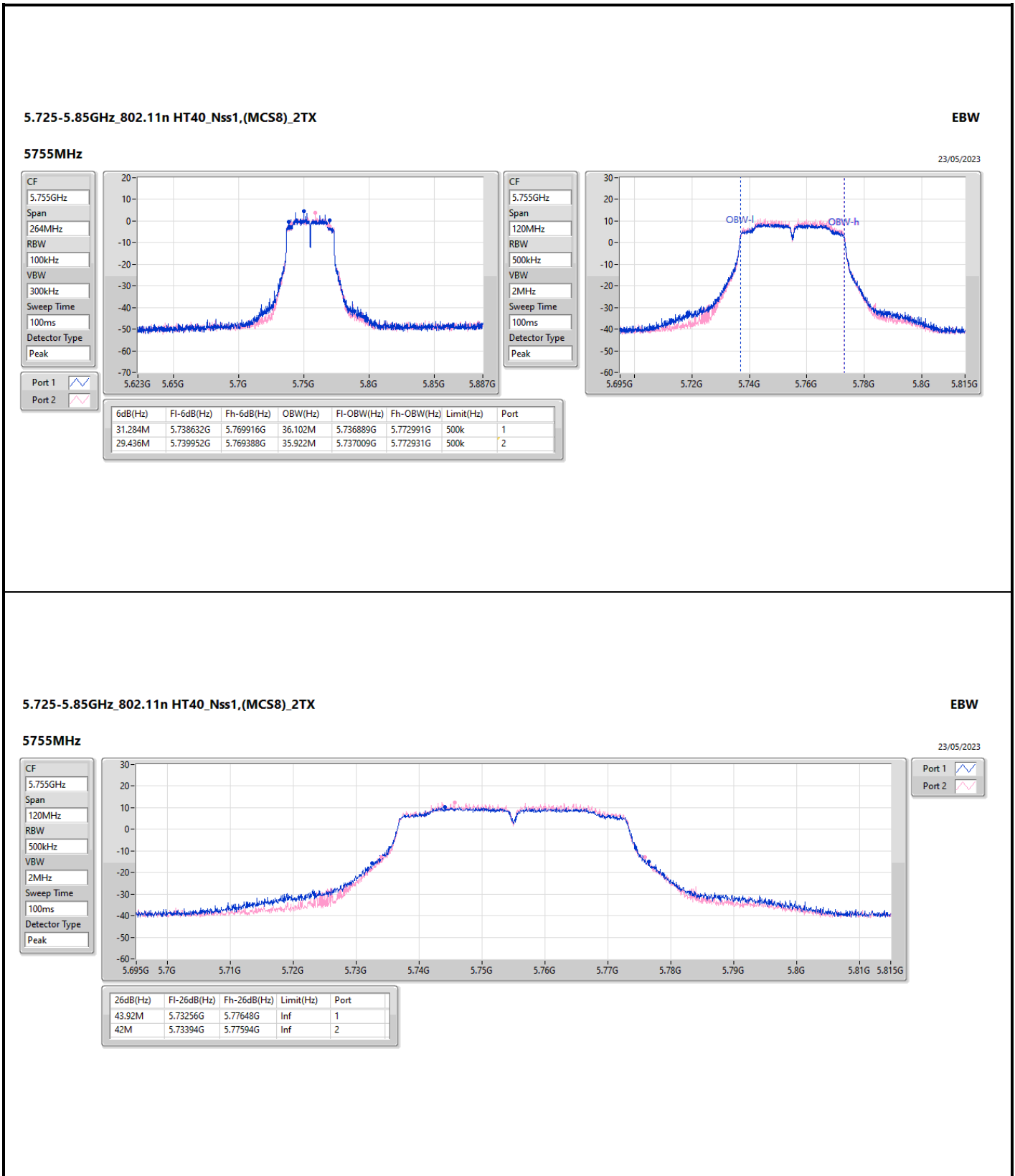
5.725-5.85GHz_802.11n HT40_Nss1,(MCS8)_2TX

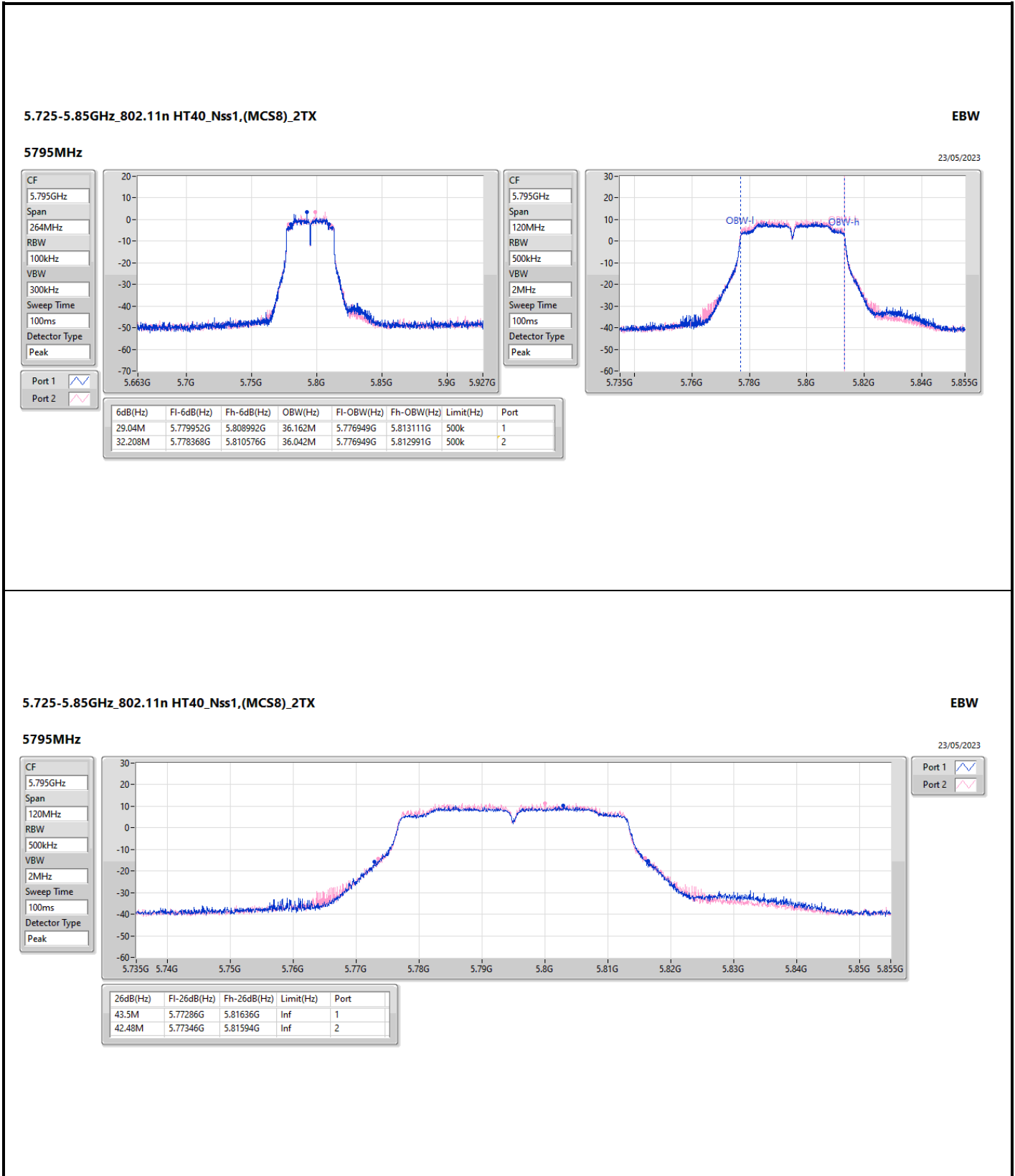
EBW

5710MHz Straddle 5.725-5.85GHz

07/03/2023







5.725-5.85GHz_802.11n HT40_Nss1,(MCS8)_2TX EBW

5795MHz 23/05/2023

CF: 5.795GHz
Span: 120MHz
RBW: 500kHz
VBW: 2MHz
Sweep Time: 100ms
Detector Type: Peak

Port 1:

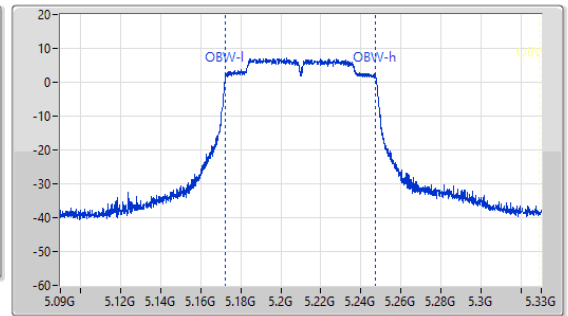
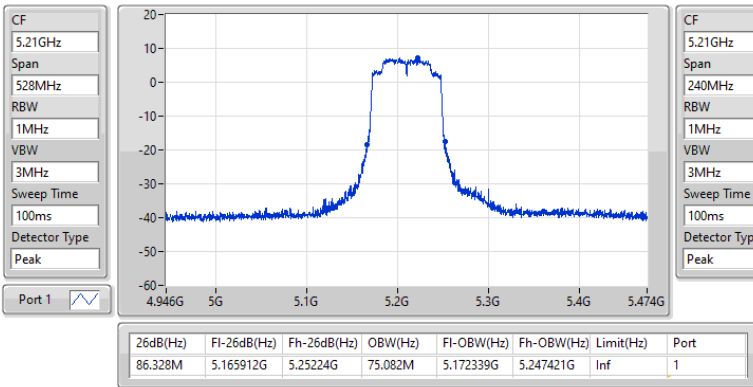
Port 2:

5.15-5.25GHz_802.11ac_VHT80_Nss1,(MCS0)_1TX(Port1)

EBW

5210MHz

27/02/2023

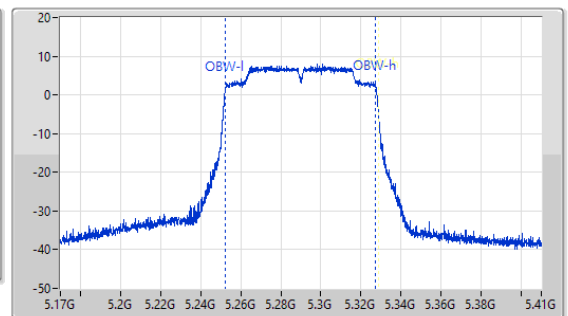
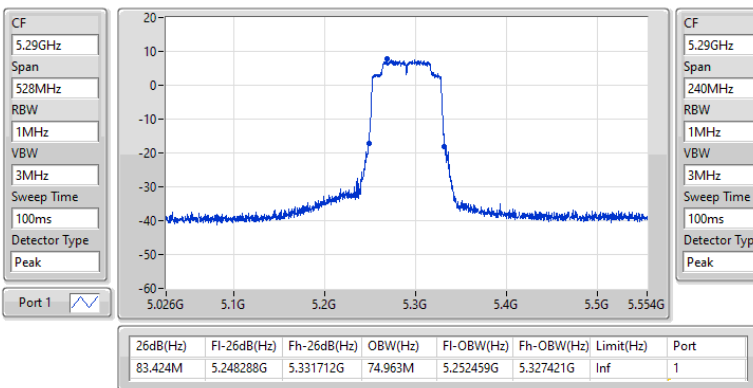


5.25-5.35GHz_802.11ac_VHT80_Nss1,(MCS0)_1TX(Port1)

EBW

5290MHz

27/02/2023

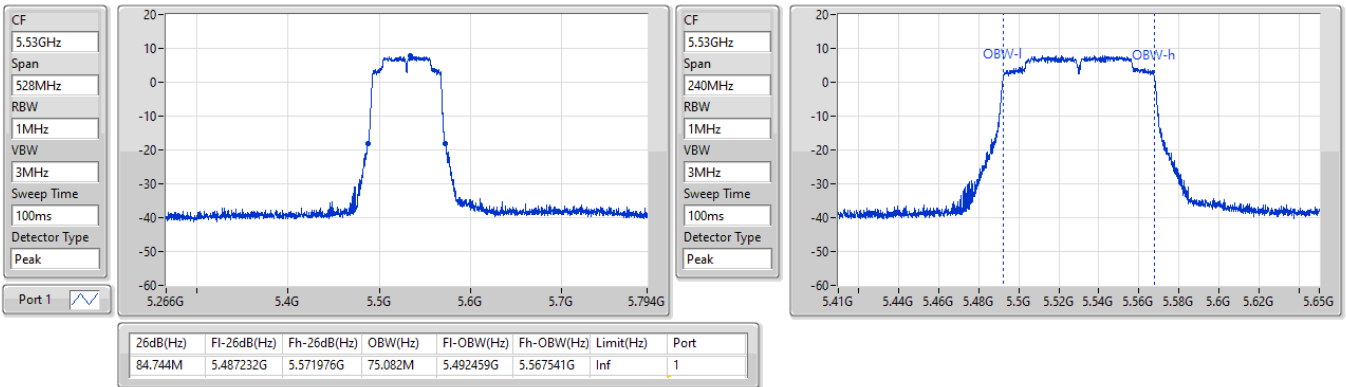


5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)

EBW

5530MHz

27/02/2023

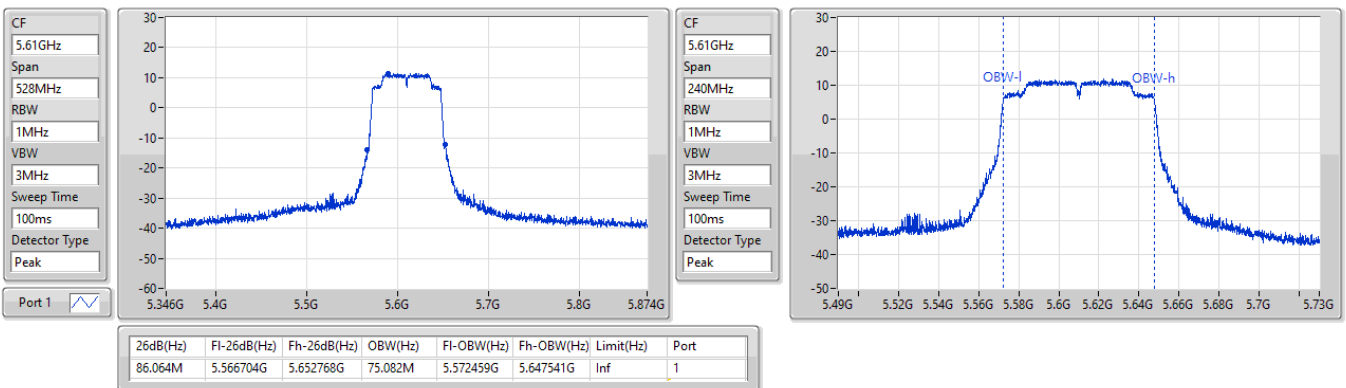


5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)

EBW

5610MHz

27/02/2023

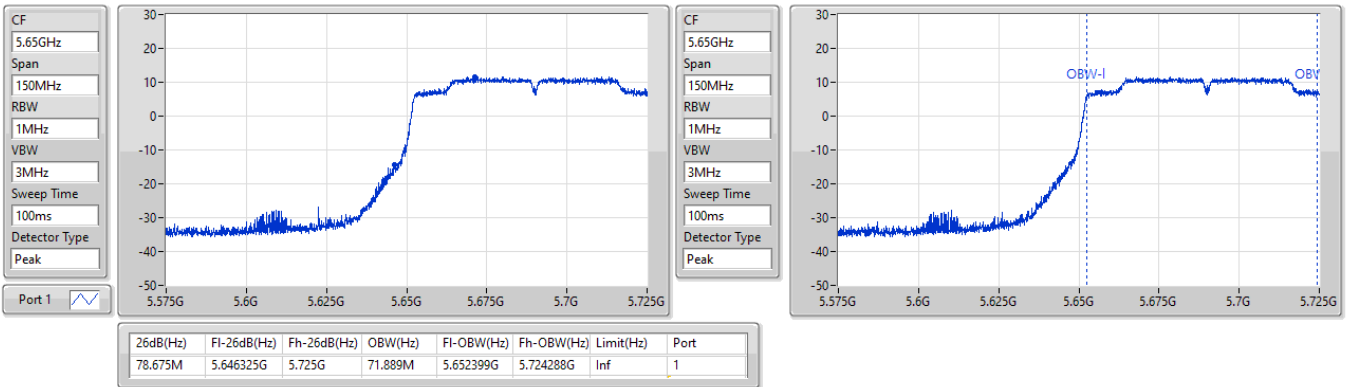


5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)

EBW

5690MHz Straddle 5.47-5.725GHz

27/02/2023

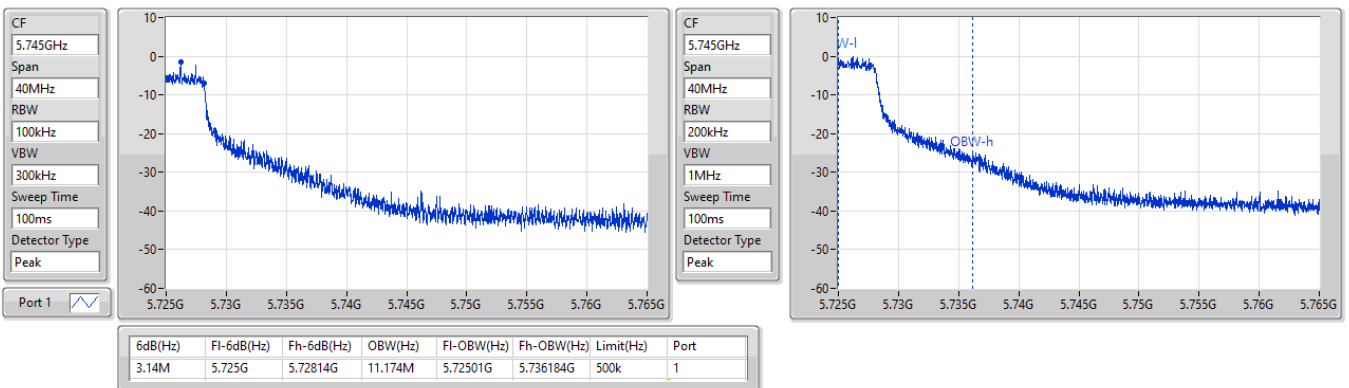


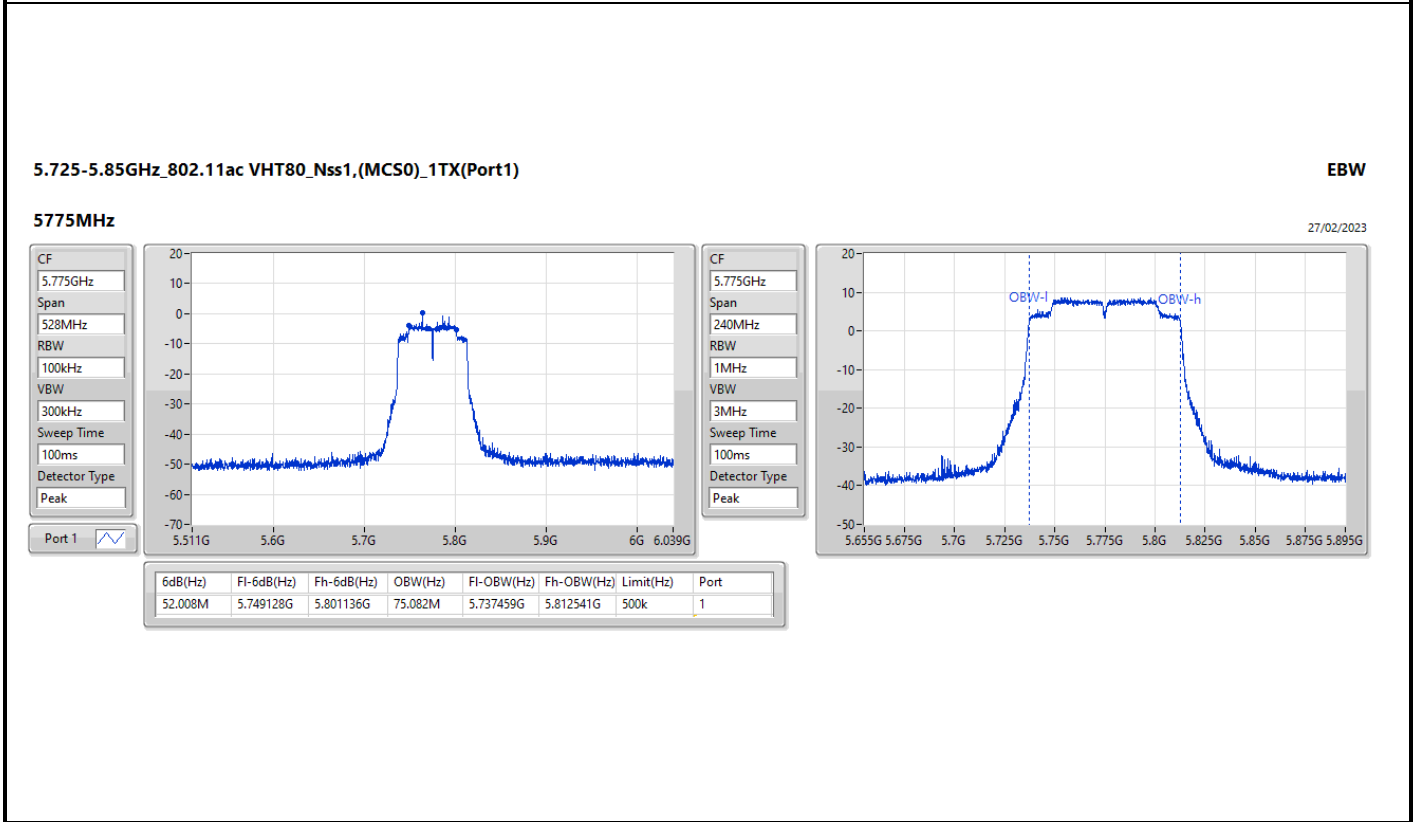
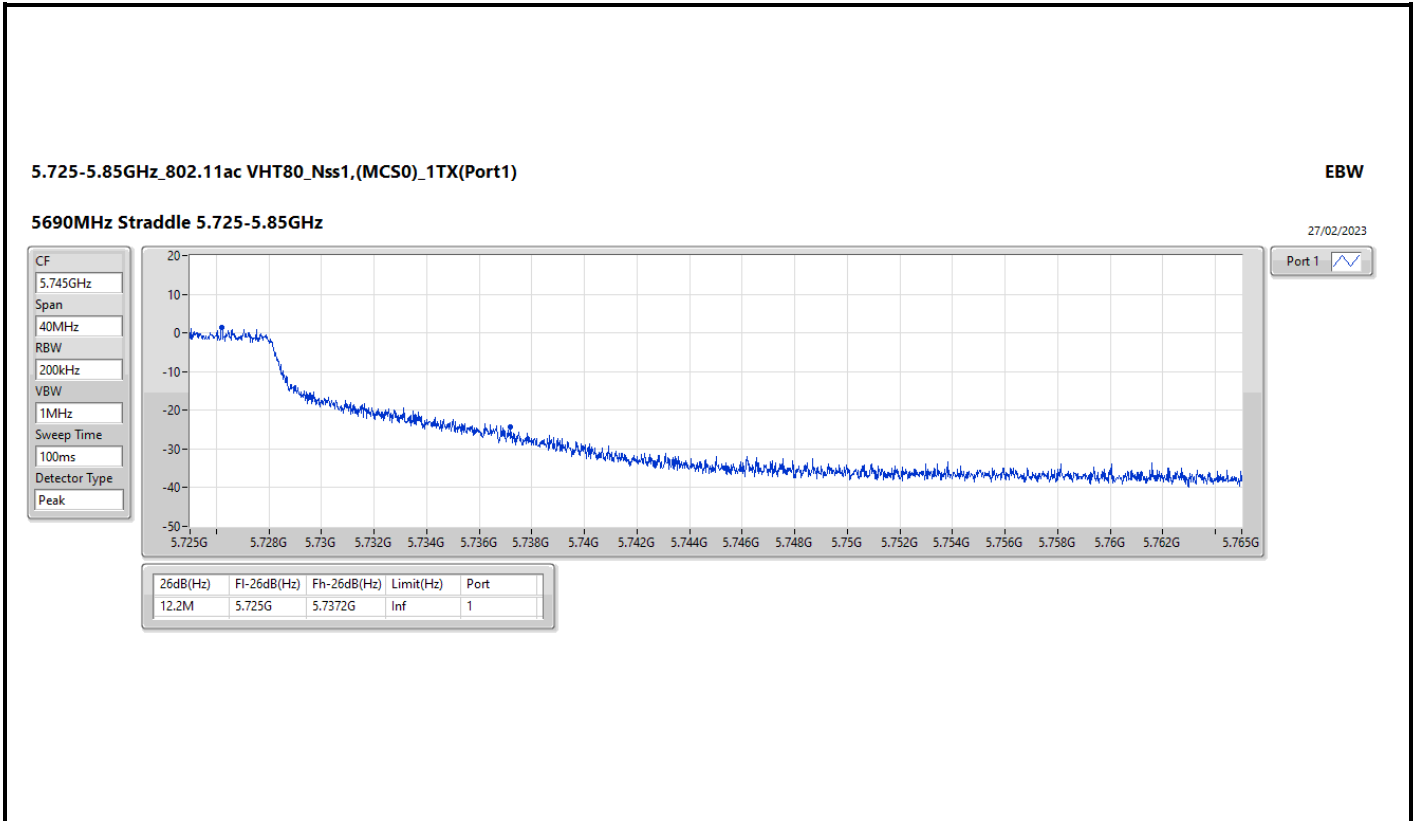
5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)

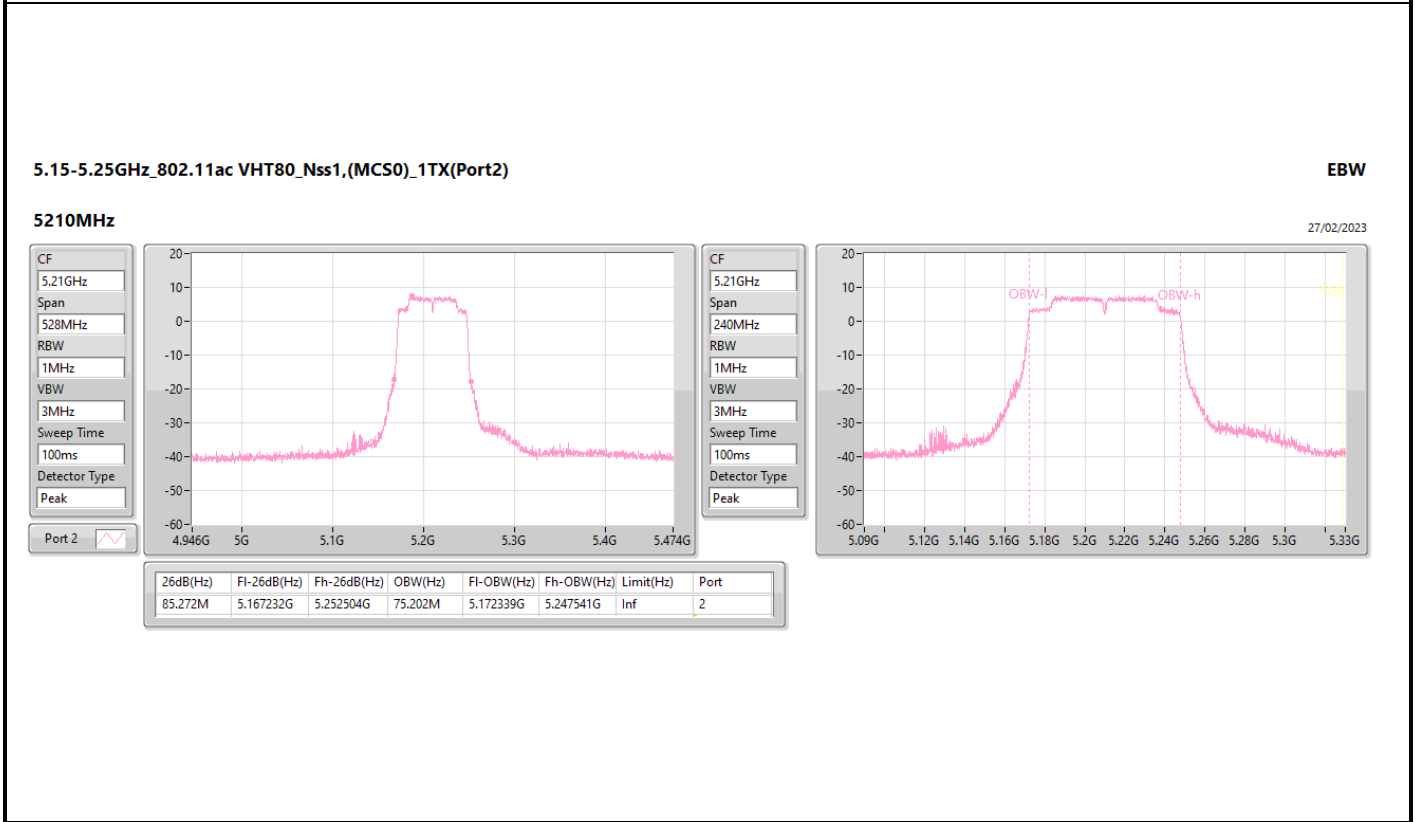
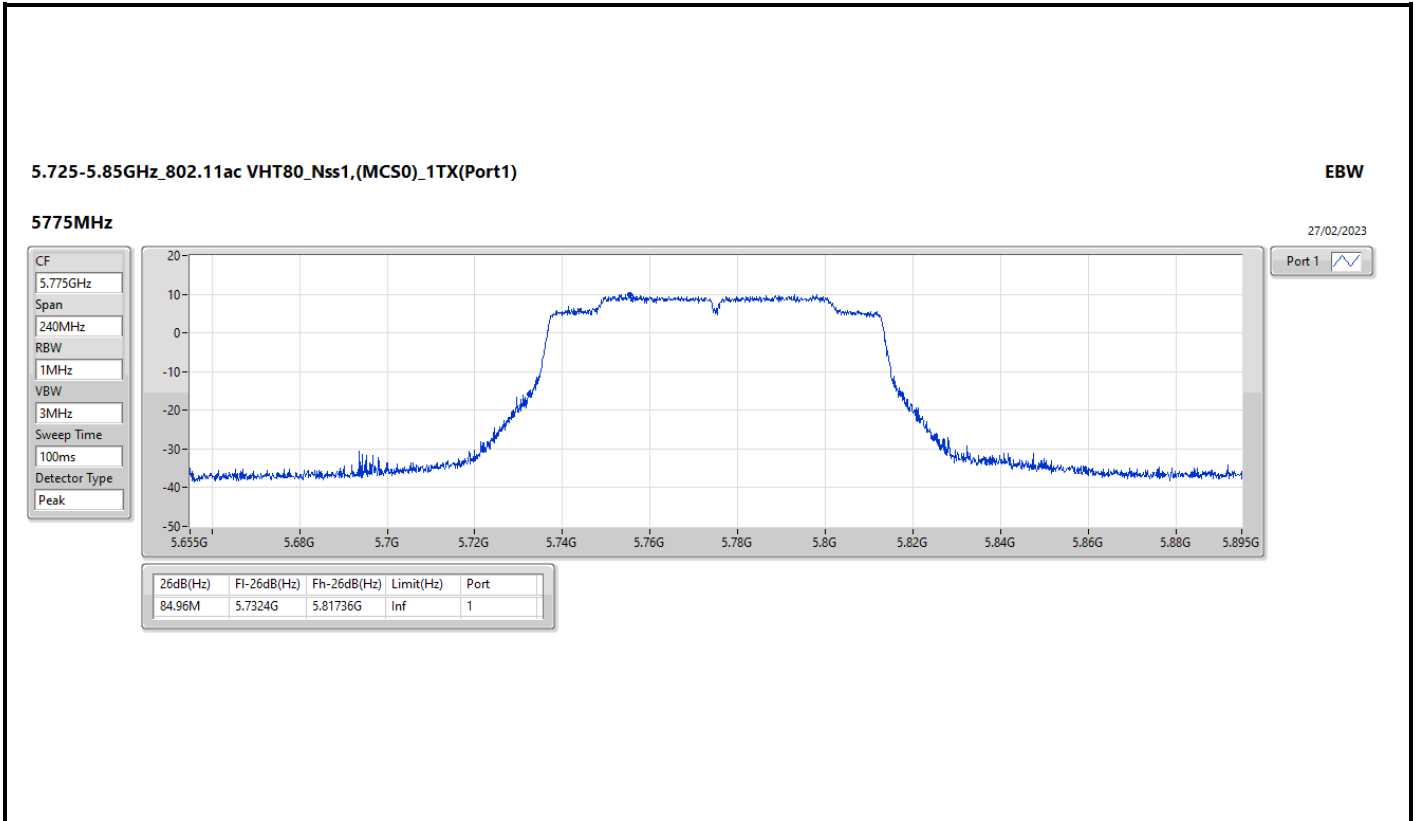
EBW

5690MHz Straddle 5.725-5.85GHz

27/02/2023





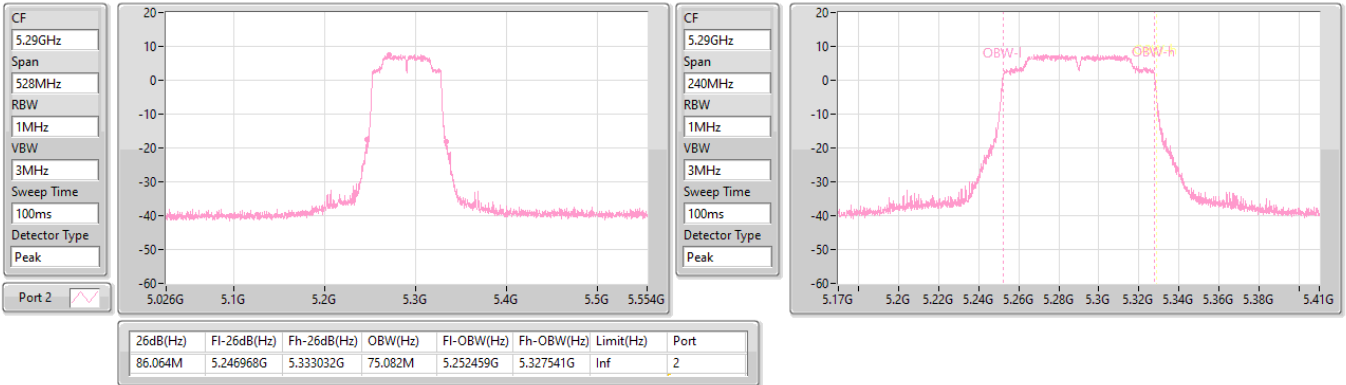


5.25-5.35GHz_802.11ac_VHT80_Nss1,(MCS0)_1TX(Port2)

EBW

5290MHz

27/02/2023

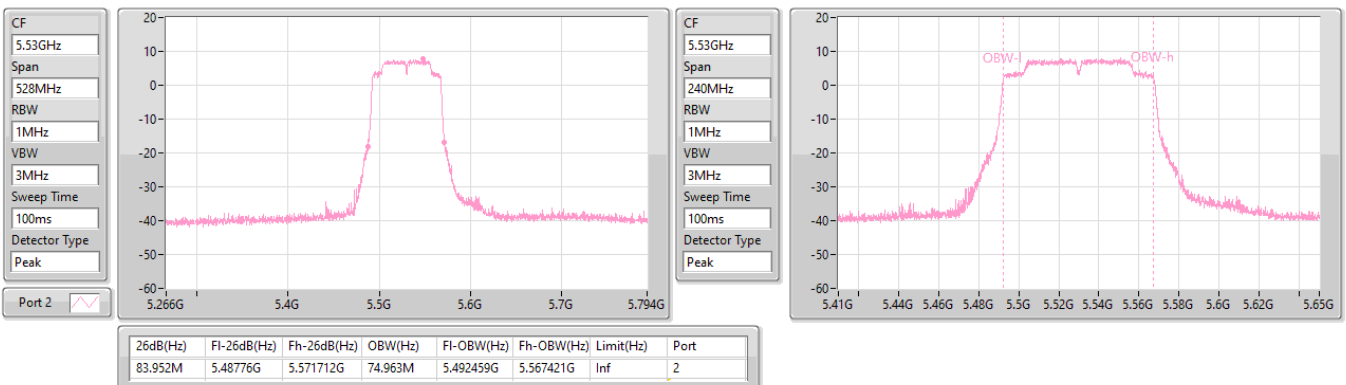


5.47-5.725GHz_802.11ac_VHT80_Nss1,(MCS0)_1TX(Port2)

EBW

5530MHz

27/02/2023

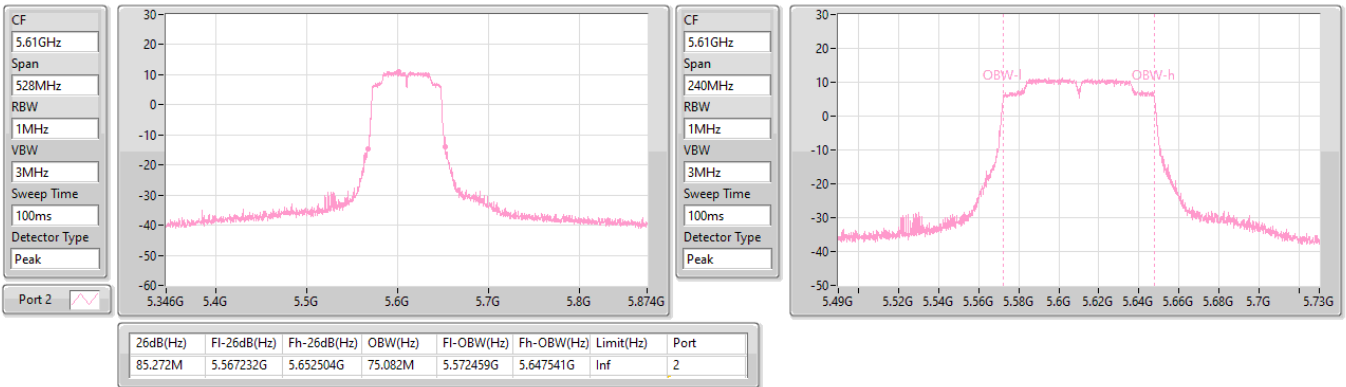


5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)

EBW

5610MHz

27/02/2023

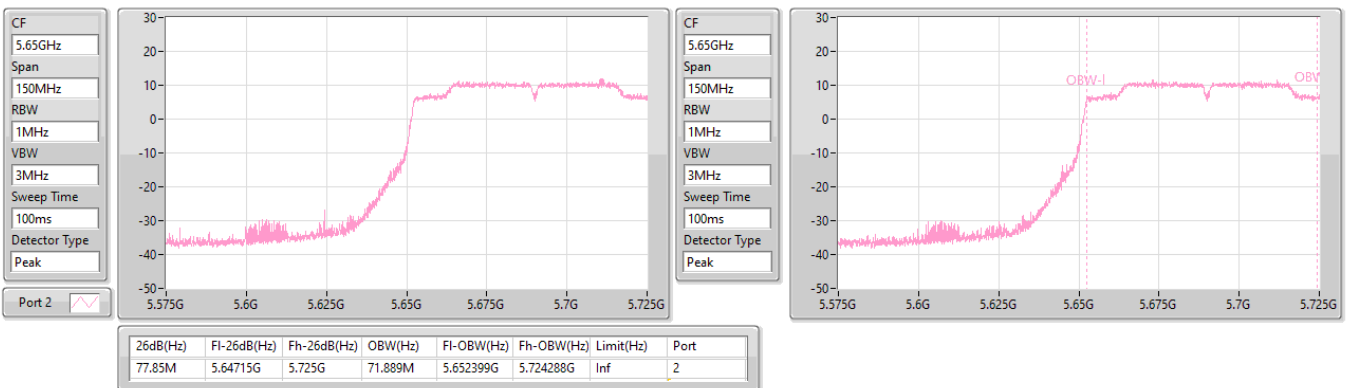


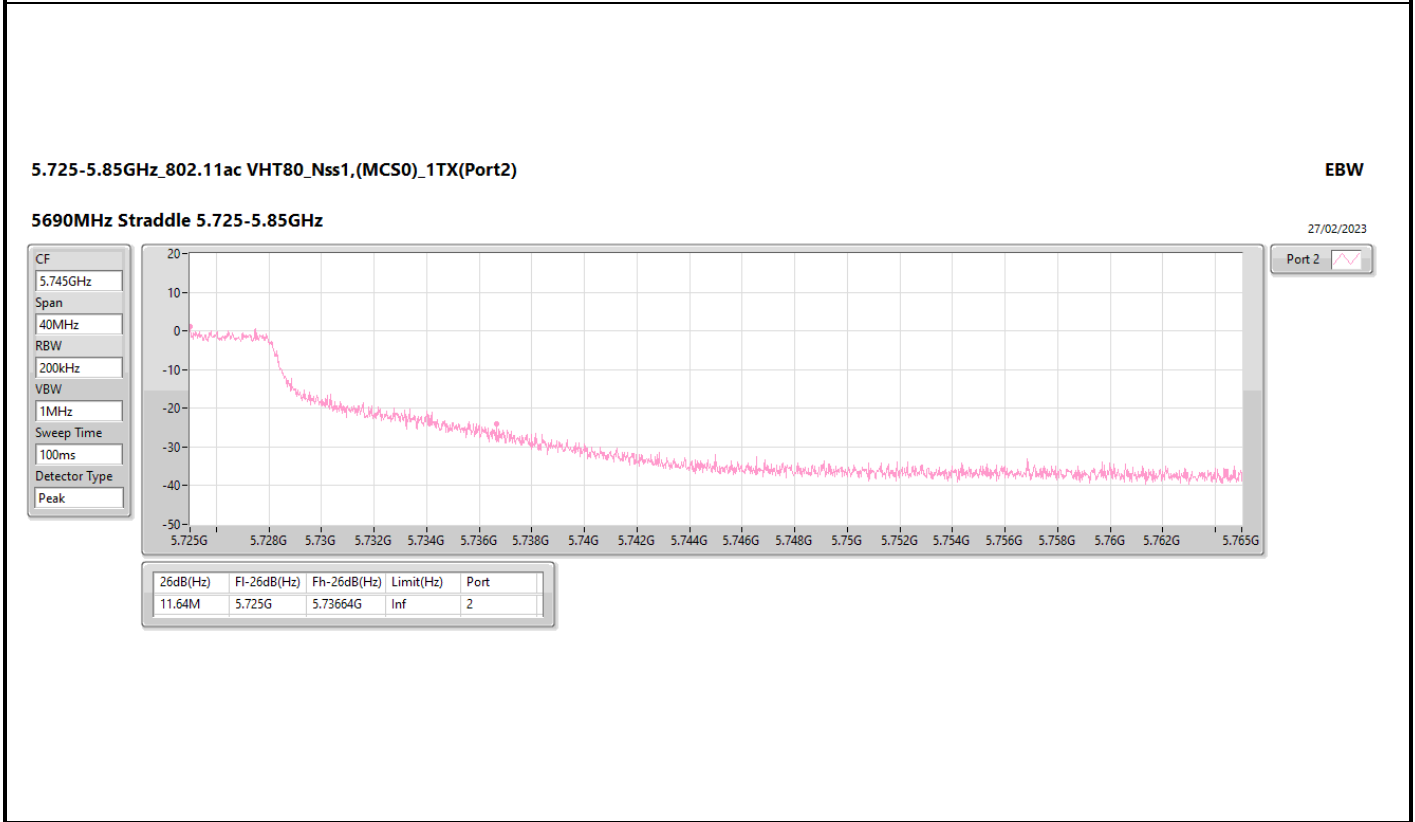
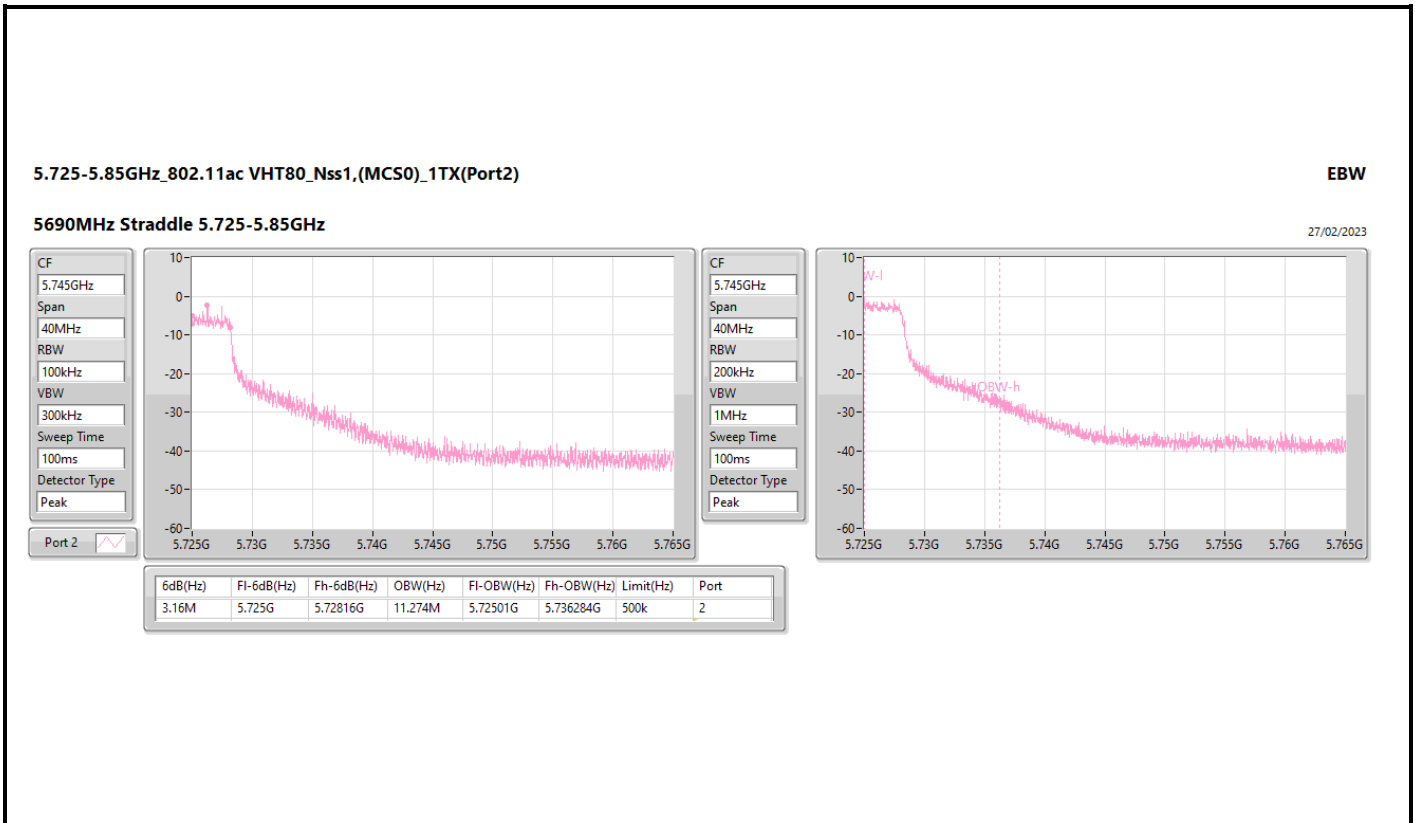
5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)

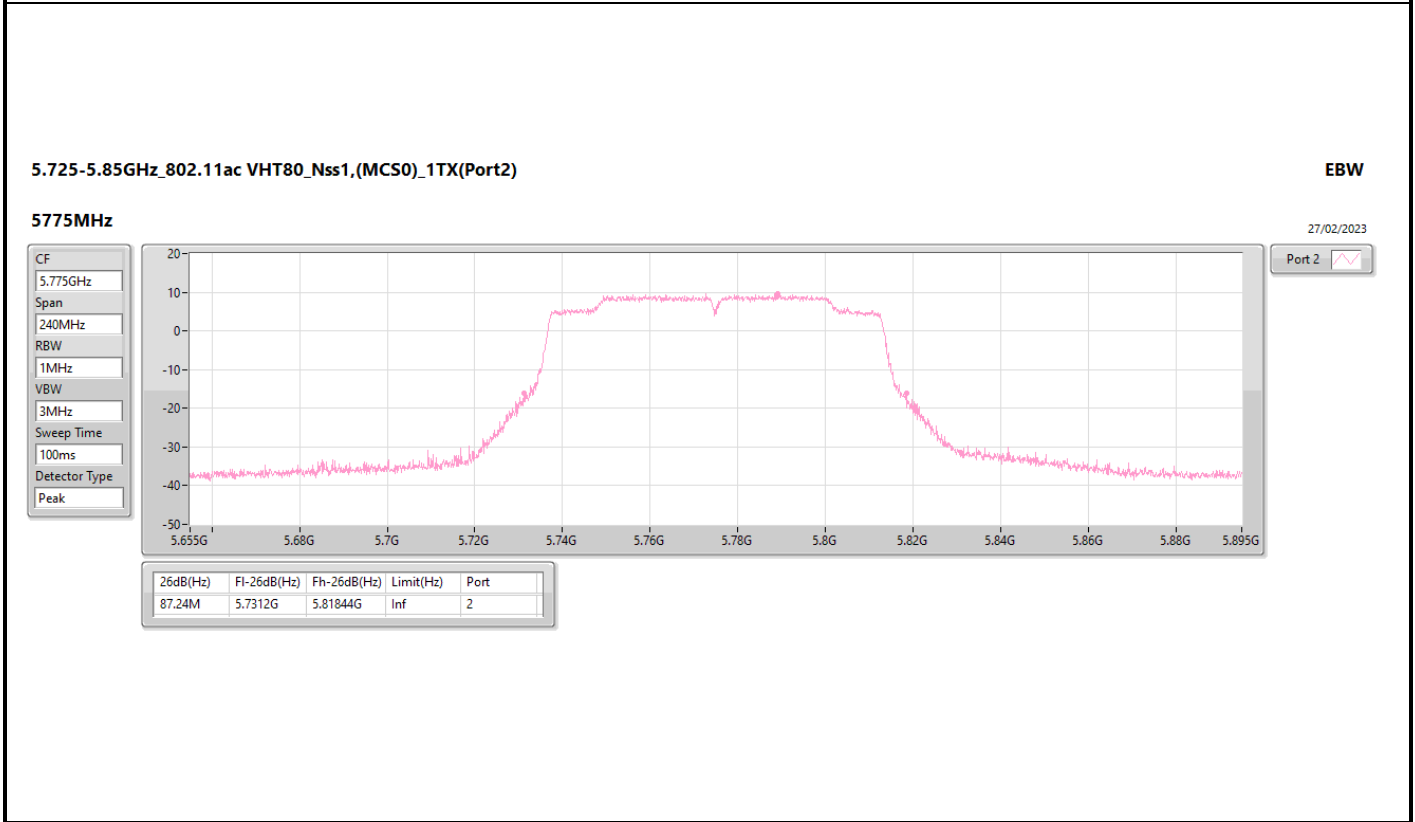
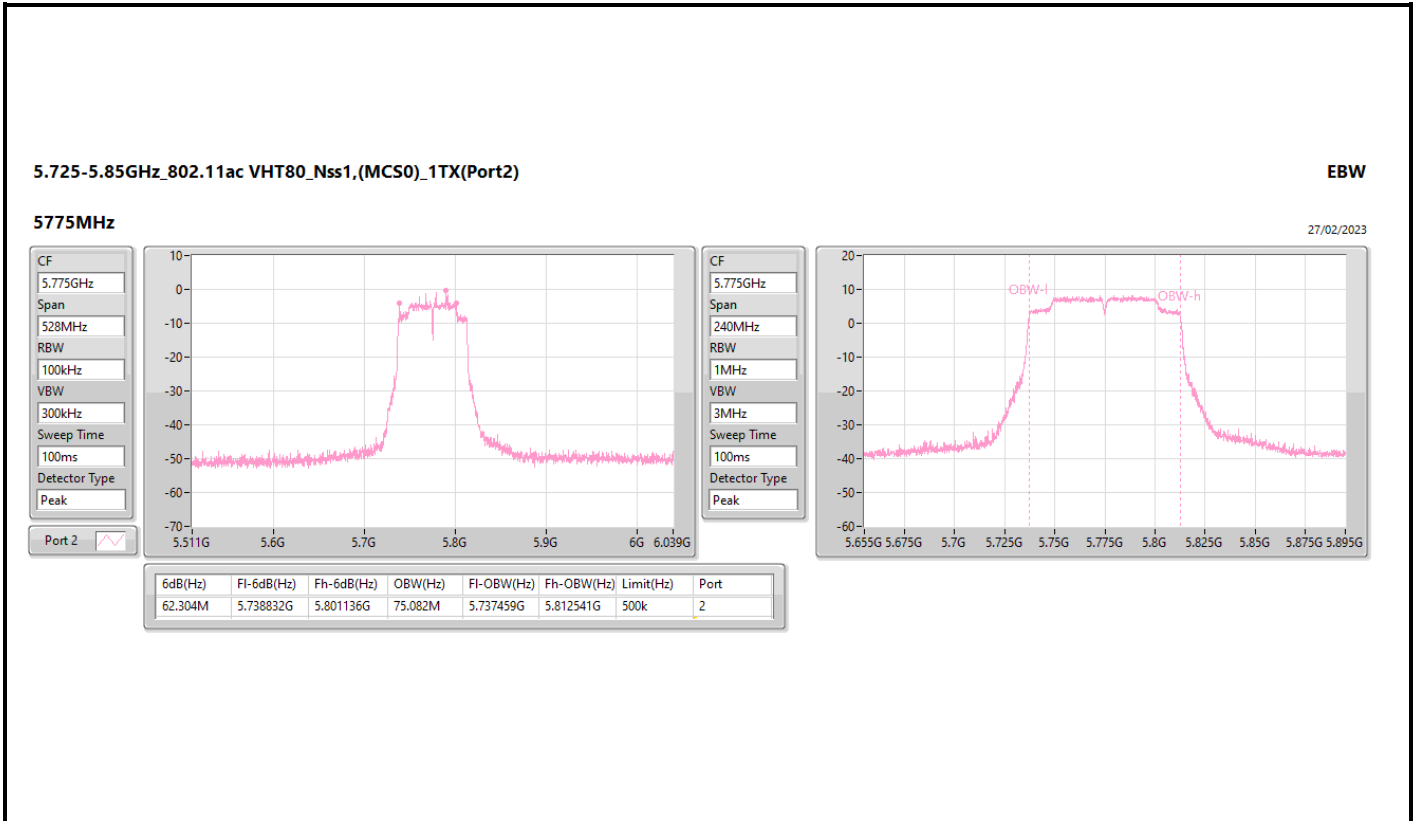
EBW

5690MHz Straddle 5.47-5.725GHz

27/02/2023







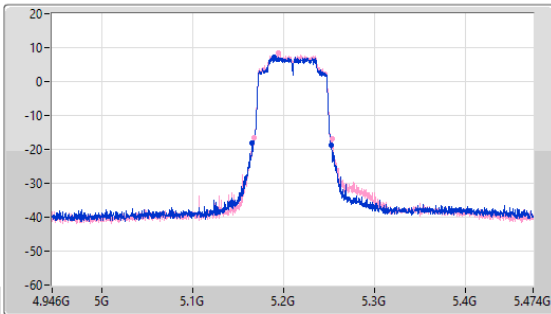
5.15-5.25GHz_802.11ac_VHT80_Nss1,(MCS0)_2TX

EBW

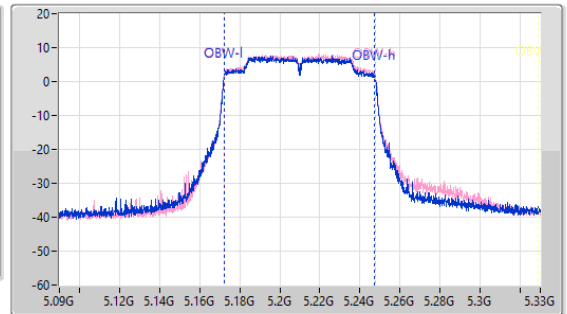
5210MHz

27/02/2023

CF
5.21GHz
Span
528MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



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



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
87.12M	5.165648G	5.252768G	75.082M	5.172339G	5.247421G	Inf	1
86.064M	5.167496G	5.25356G	75.082M	5.172459G	5.247541G	Inf	2

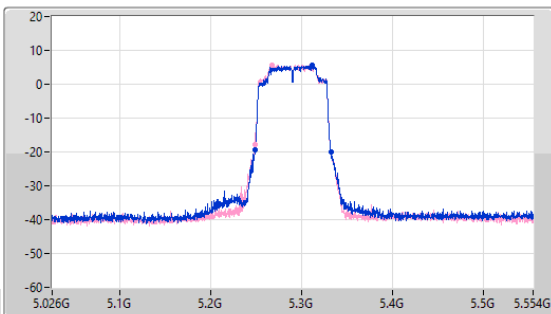
5.25-5.35GHz_802.11ac_VHT80_Nss1,(MCS0)_2TX

EBW

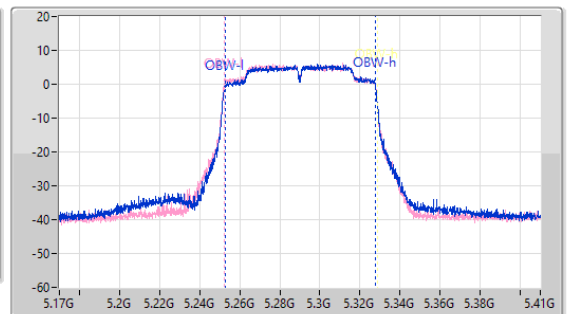
5290MHz

27/02/2023

CF
5.29GHz
Span
528MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.29GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.952M	5.248552G	5.332504G	74.963M	5.252579G	5.327541G	Inf	1
83.688M	5.248288G	5.331976G	75.082M	5.252459G	5.327541G	Inf	2

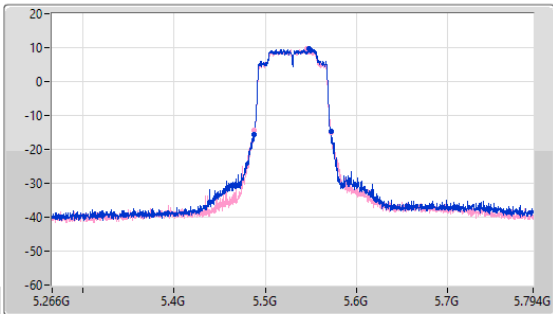
5.47-5.725GHz_802.11ac_VHT80_Nss1,(MCS0)_2TX

EBW

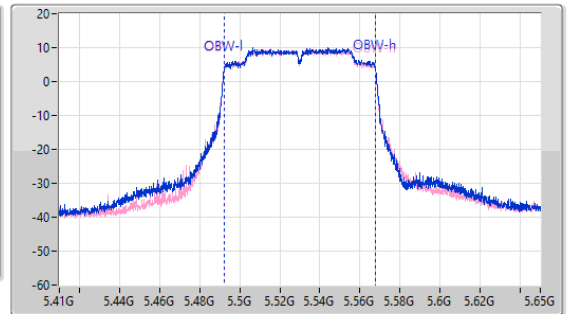
5530MHz

27/02/2023

CF
5.53GHz
Span
528MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.53GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
84.744M	5.487232G	5.571976G	75.082M	5.492459G	5.567541G	Inf	1
84.744M	5.487496G	5.57224G	75.082M	5.492459G	5.567541G	Inf	2

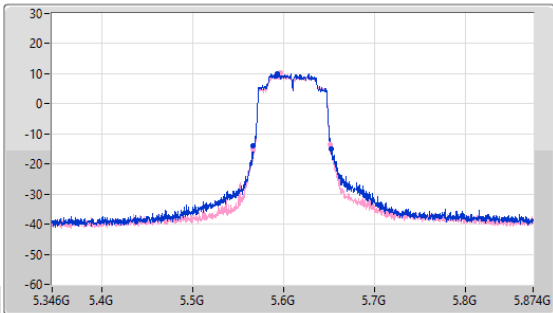
5.47-5.725GHz_802.11ac_VHT80_Nss1,(MCS0)_2TX

EBW

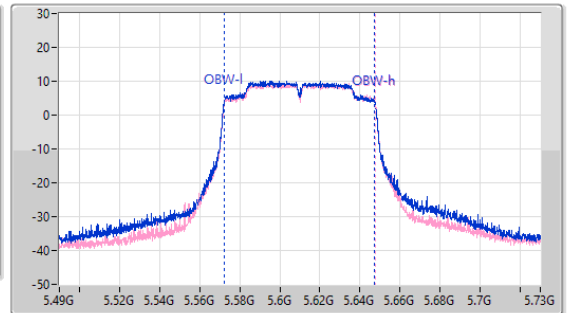
5610MHz

27/02/2023

CF
5.61GHz
Span
528MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.61GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2

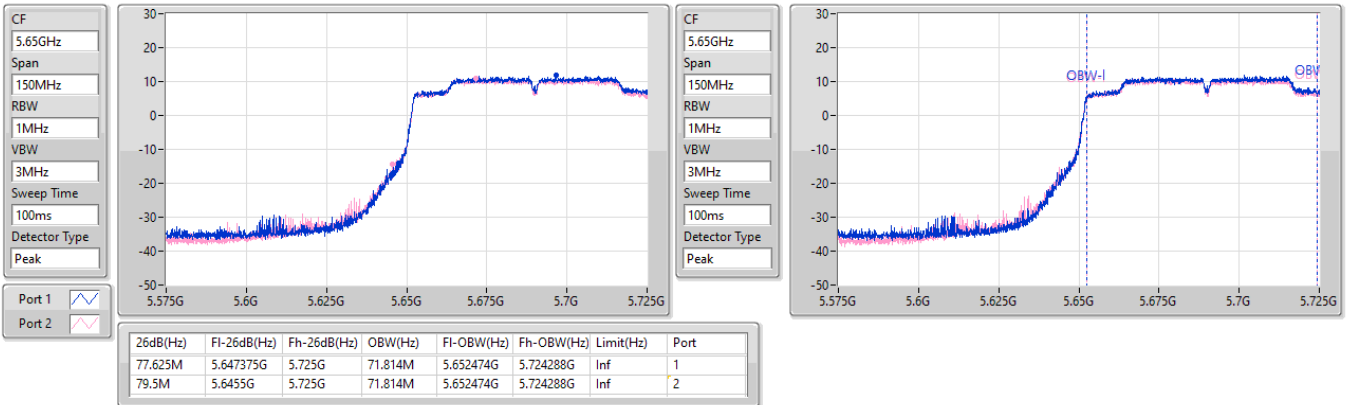
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
85.536M	5.566968G	5.652504G	75.082M	5.572339G	5.647421G	Inf	1
85.008M	5.56644G	5.651448G	75.082M	5.572459G	5.647541G	Inf	2

5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

27/02/2023

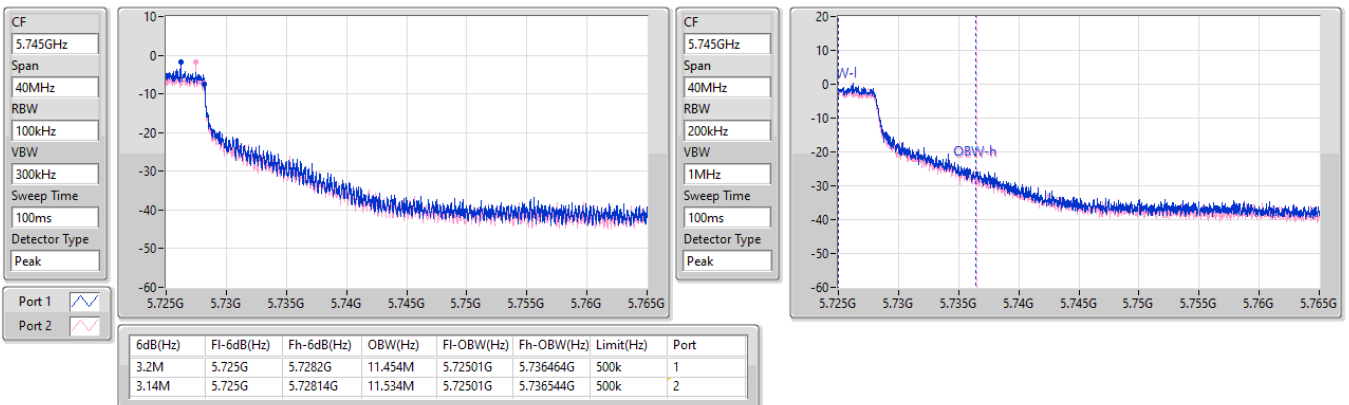


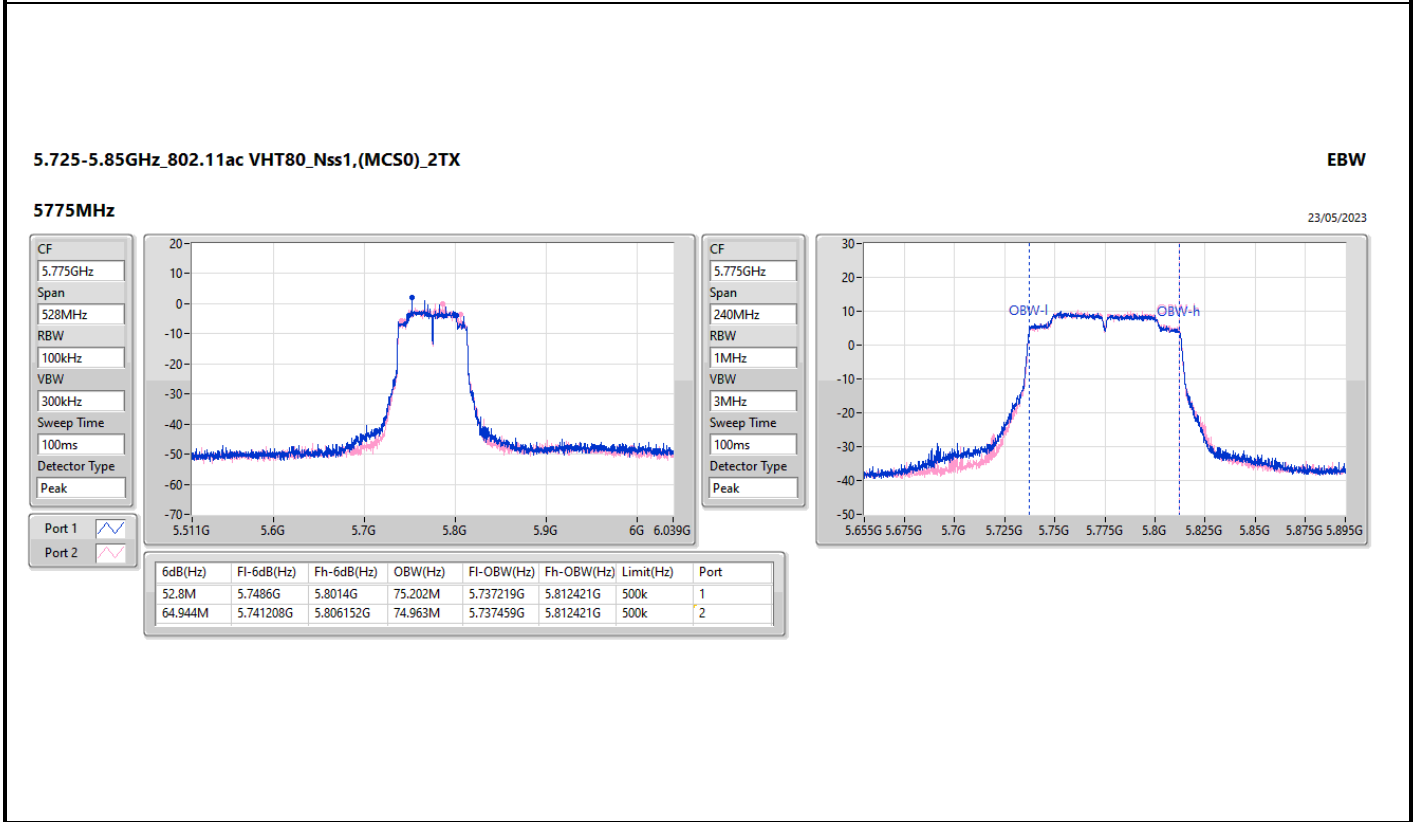
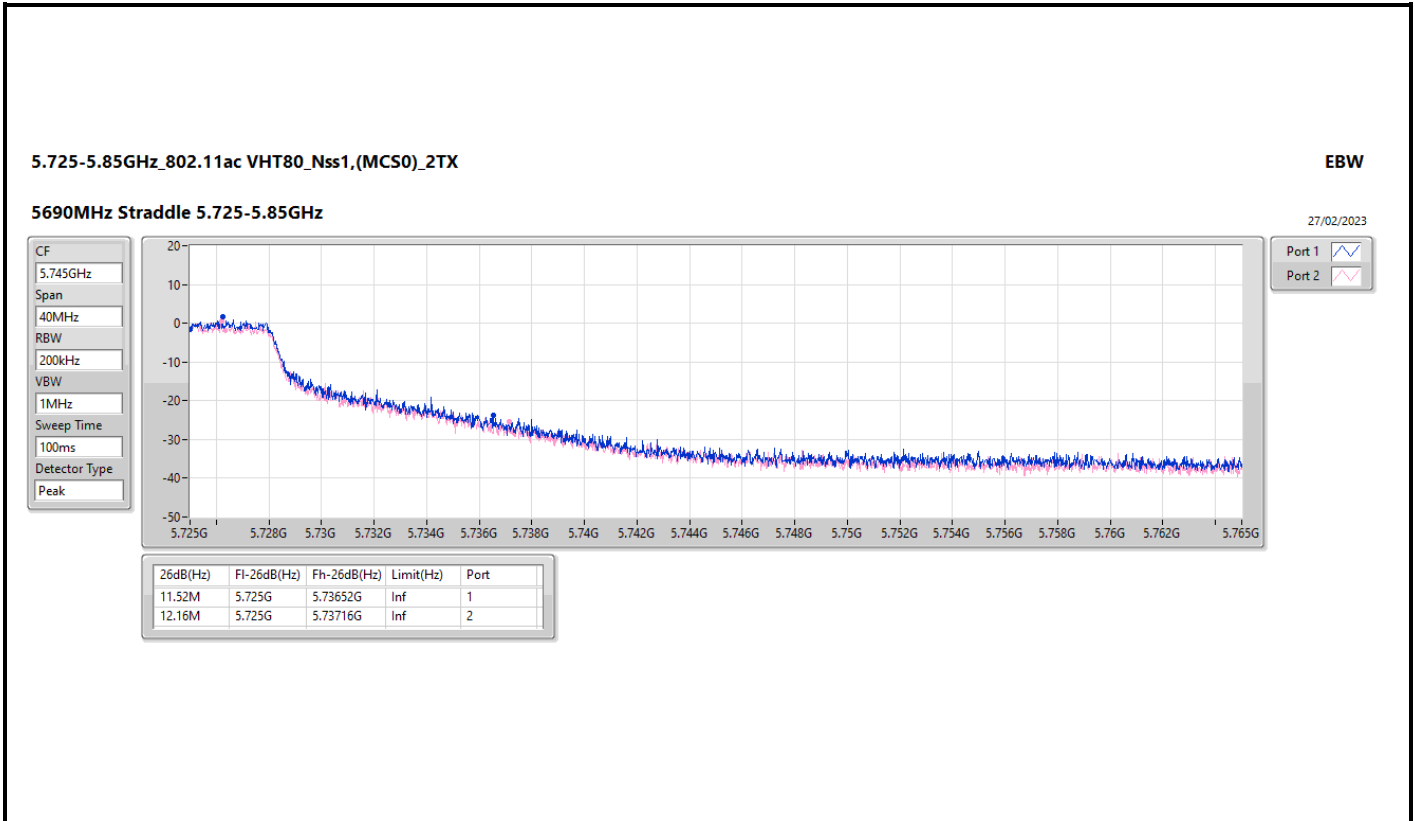
5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

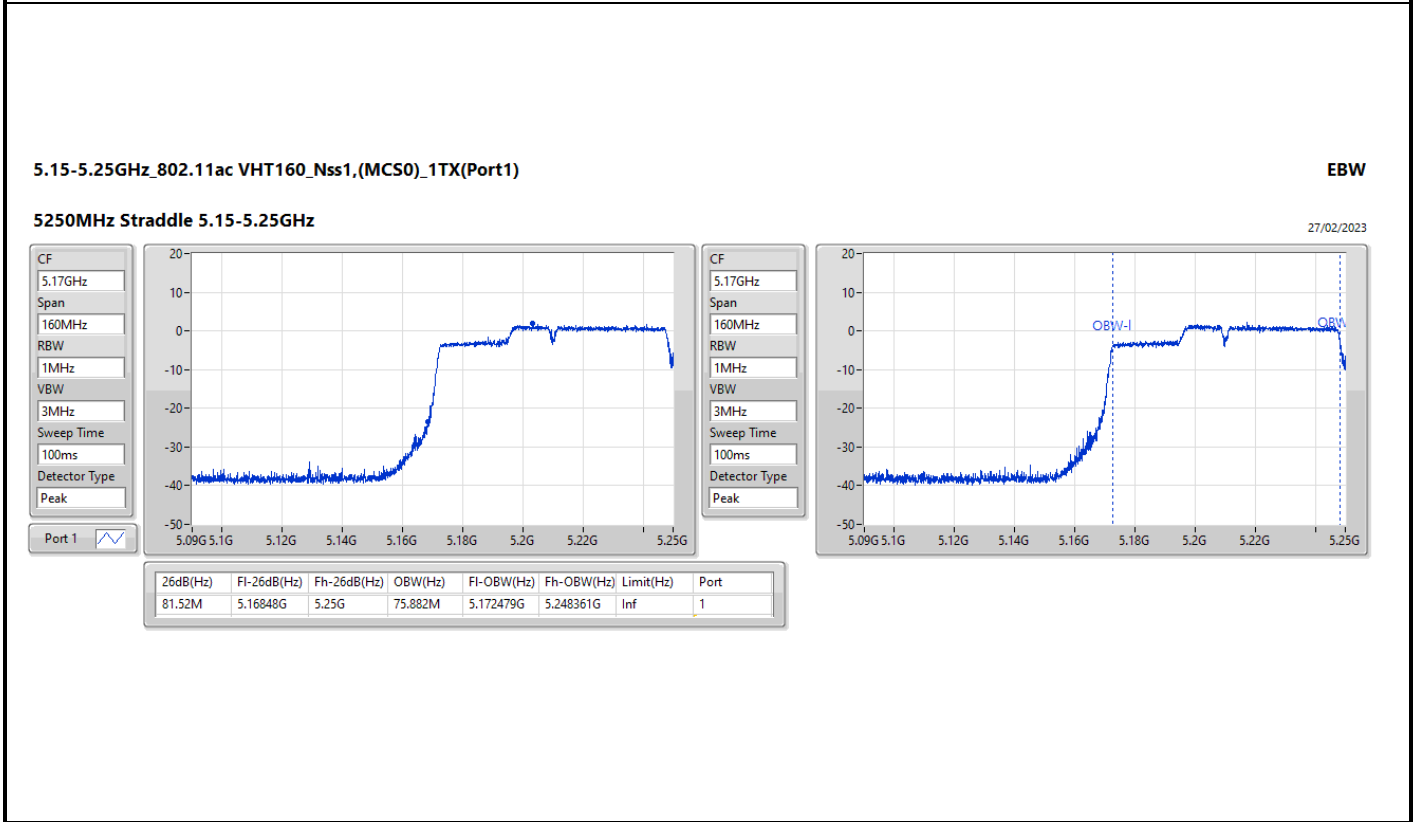
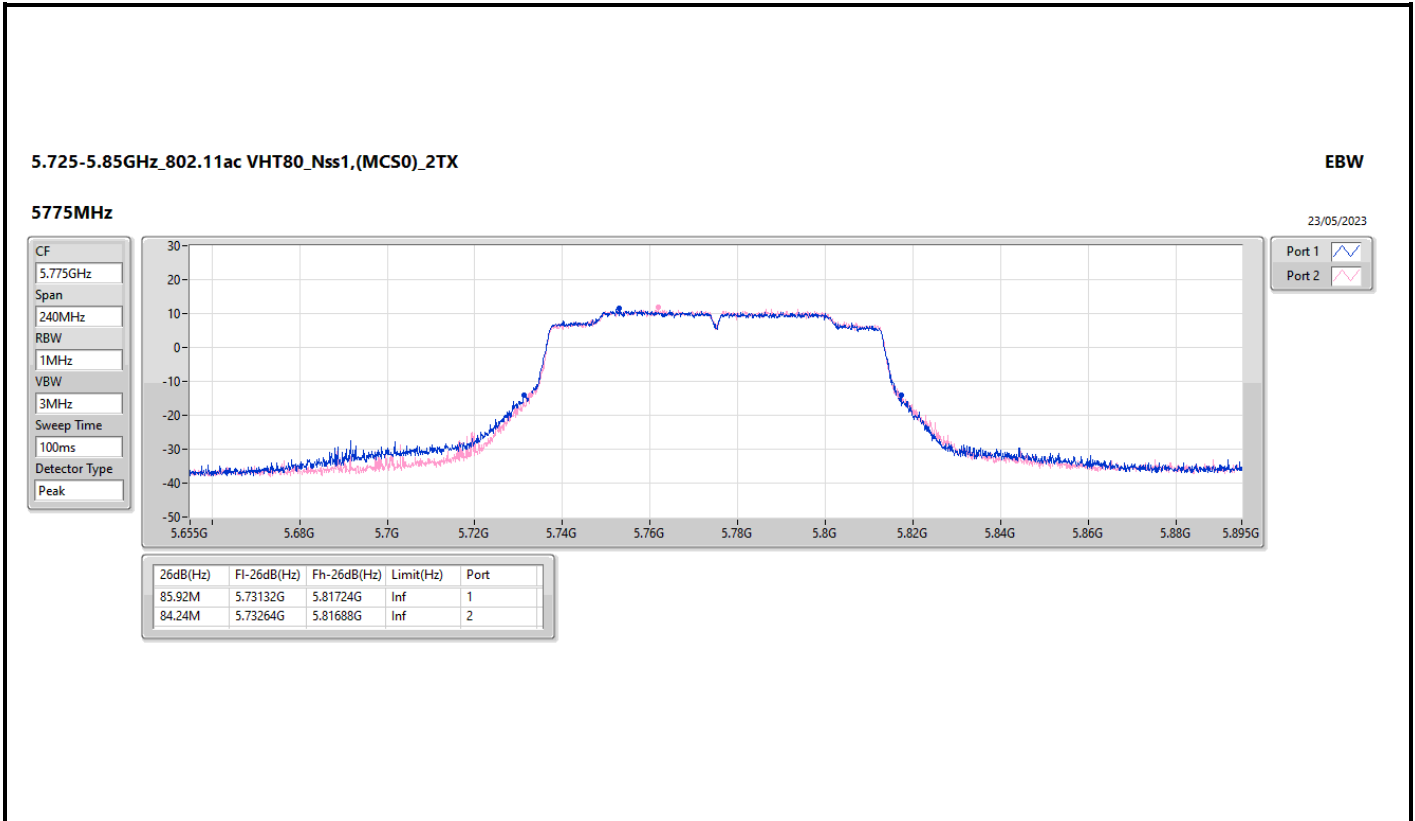
EBW

5690MHz Straddle 5.725-5.85GHz

27/02/2023





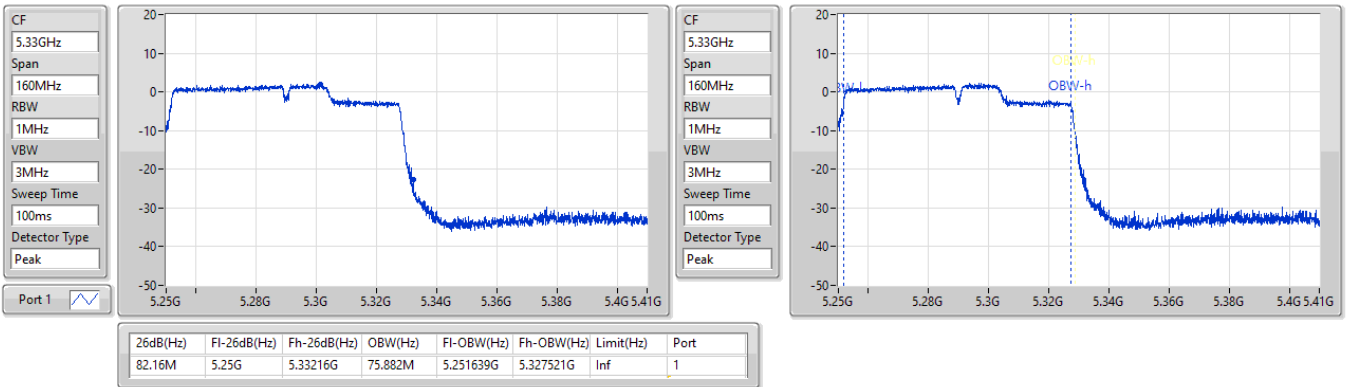


5.25-5.35GHz_802.11ac VHT160_Nss1,(MCS0)_1TX(Port1)

EBW

5250MHz Straddle 5.25-5.35GHz

27/02/2023

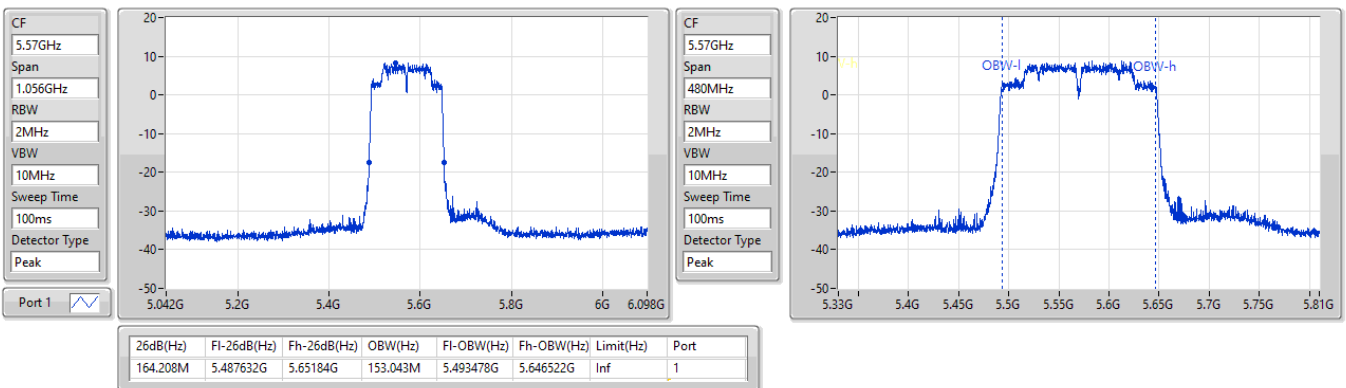


5.47-5.725GHz_802.11ac VHT160_Nss1,(MCS0)_1TX(Port1)

EBW

5570MHz

27/02/2023

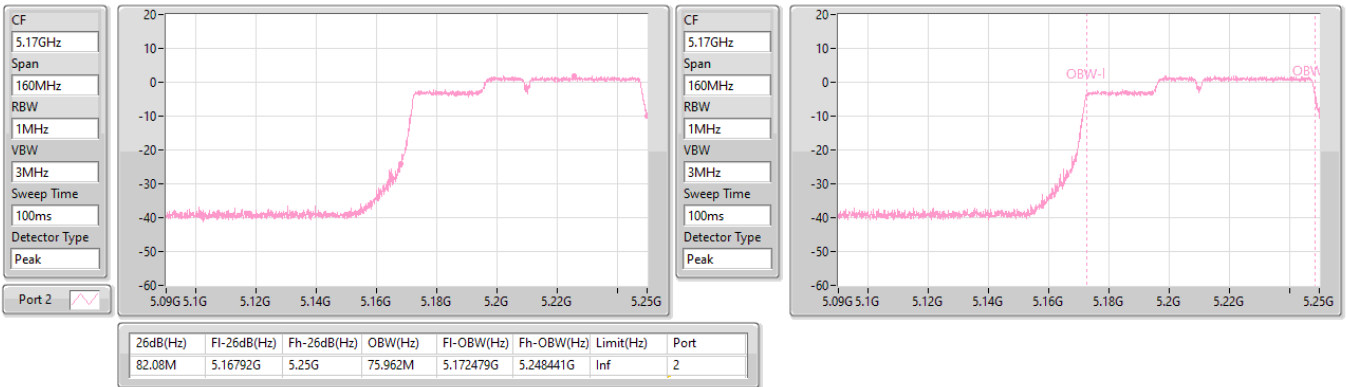


5.15-5.25GHz 802.11ac VHT160_Nss1,(MCS0)_1TX(Port2)

EBW

5250MHz Straddle 5.15-5.25GHz

27/02/2023

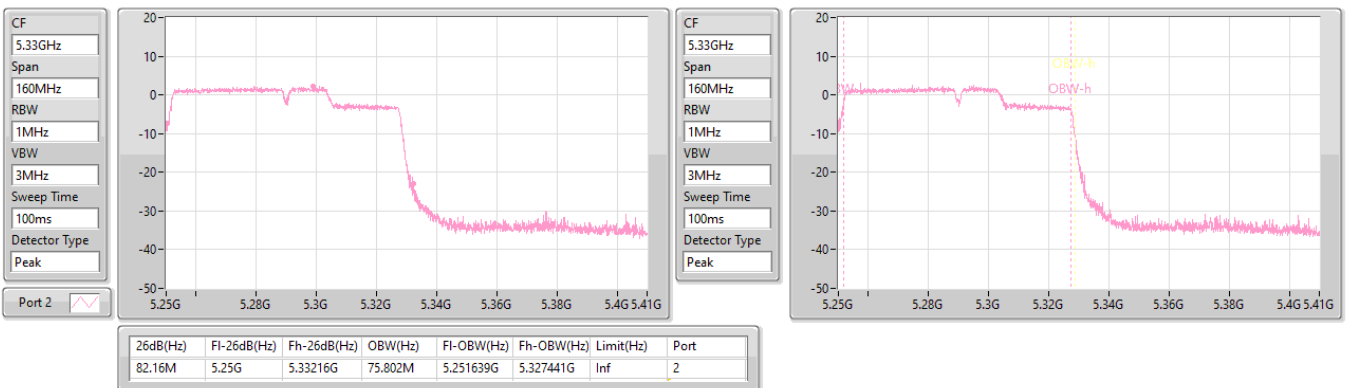


5.25-5.35GHz 802.11ac VHT160_Nss1,(MCS0)_1TX(Port2)

EBW

5250MHz Straddle 5.25-5.35GHz

27/02/2023

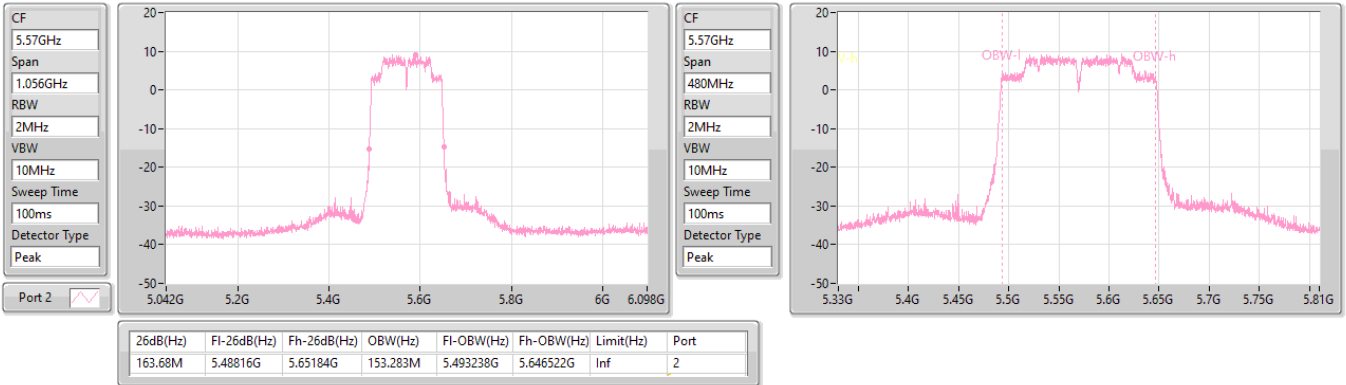


5.47-5.725GHz_802.11ac VHT160_Nss1,(MCS0)_1TX(Port2)

EBW

5570MHz

27/02/2023

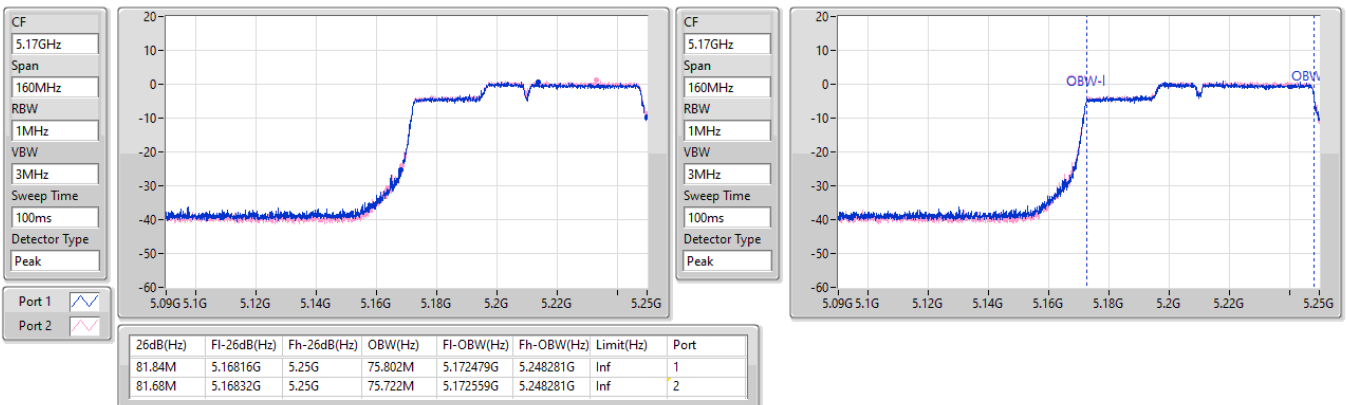


5.15-5.25GHz_802.11ac VHT160_Nss1,(MCS0)_2TX

EBW

5250MHz Straddle 5.15-5.25GHz

27/02/2023

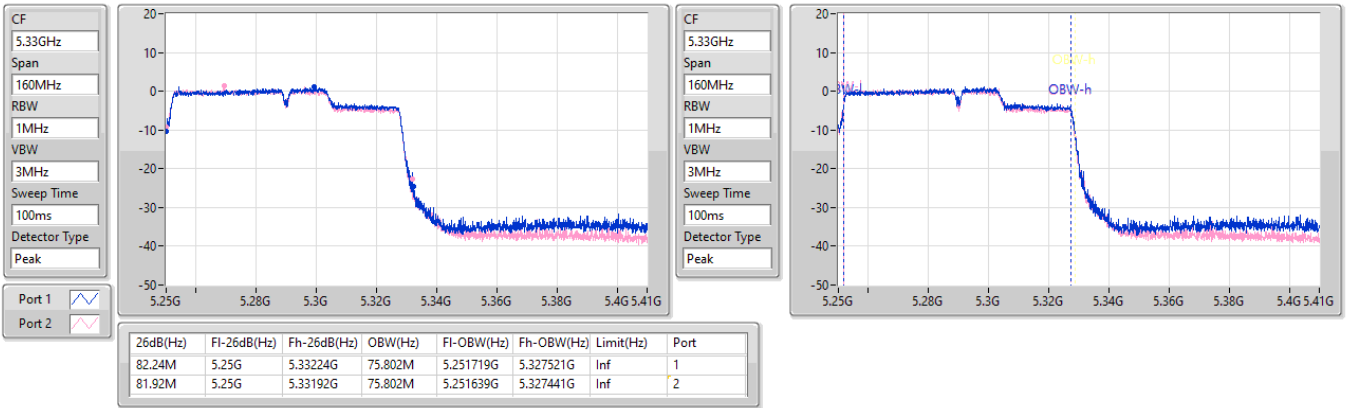


5.25-5.35GHz_802.11ac_VHT160_Nss1,(MCS0)_2TX

EBW

5250MHz Straddle 5.25-5.35GHz

27/02/2023

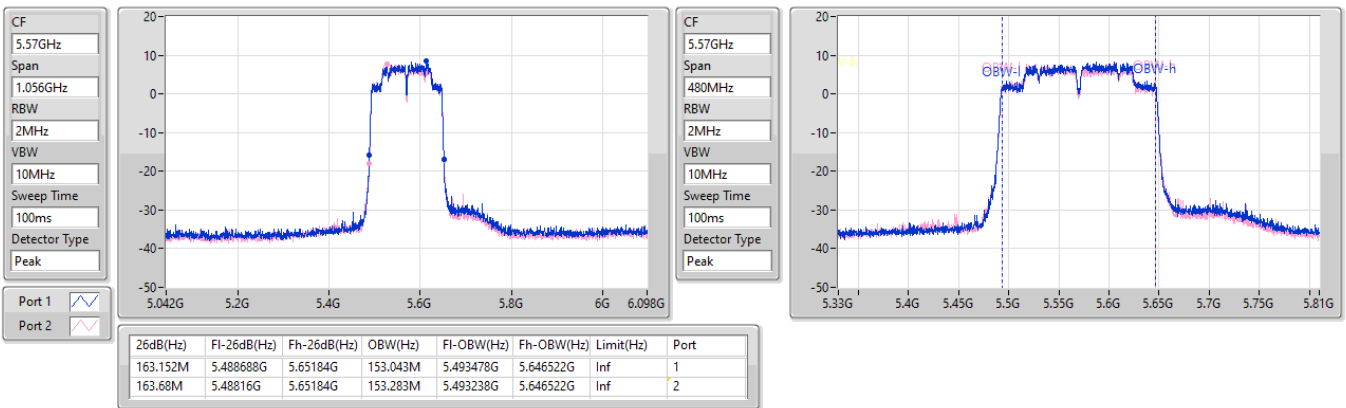


5.47-5.725GHz_802.11ac_VHT160_Nss1,(MCS0)_2TX

EBW

5570MHz

27/02/2023

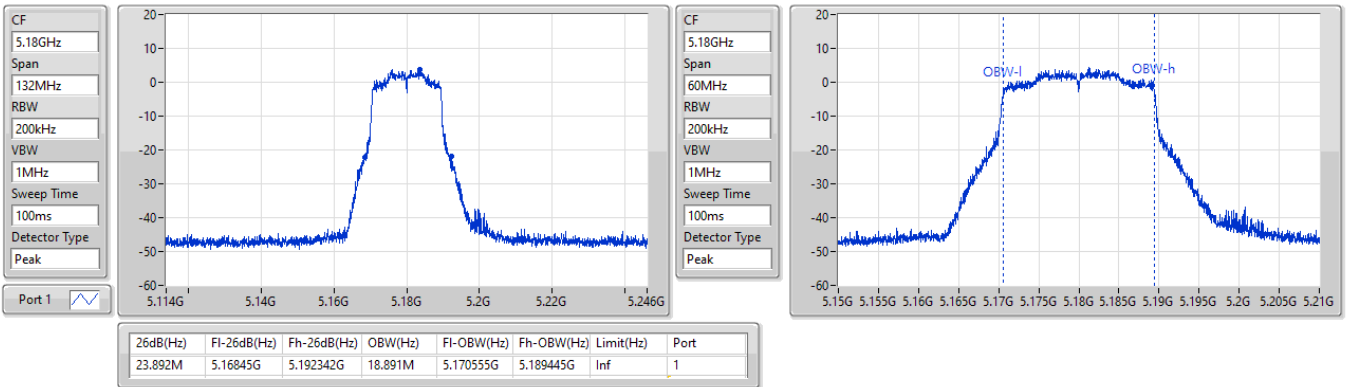


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)

EBW

5180MHz

27/02/2023

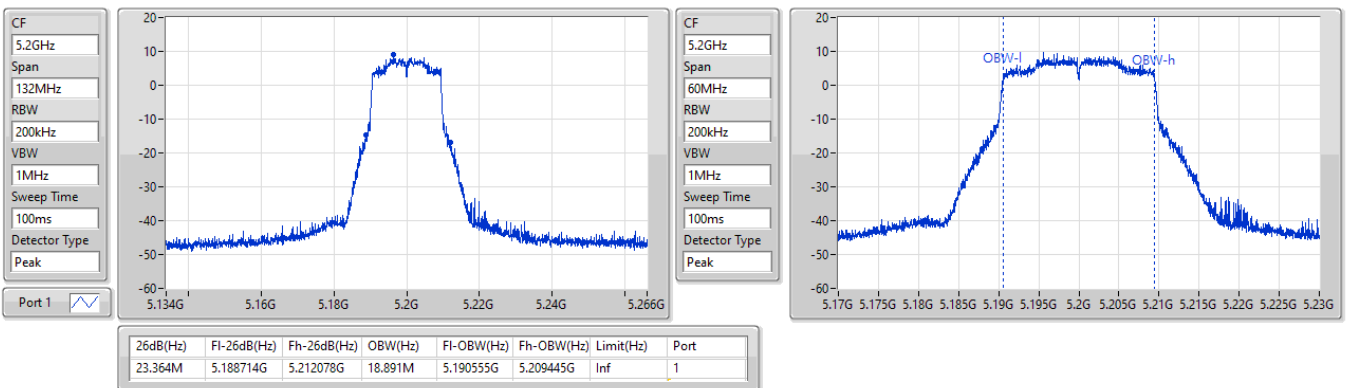


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)

EBW

5200MHz

27/02/2023

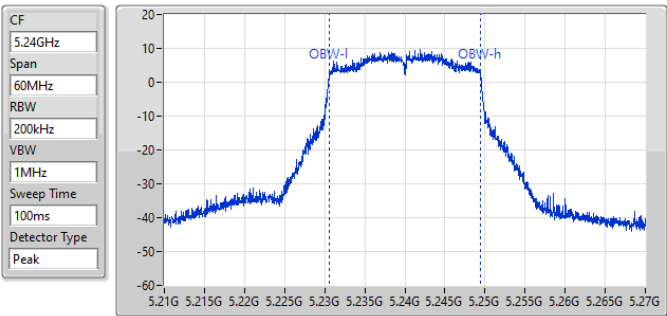
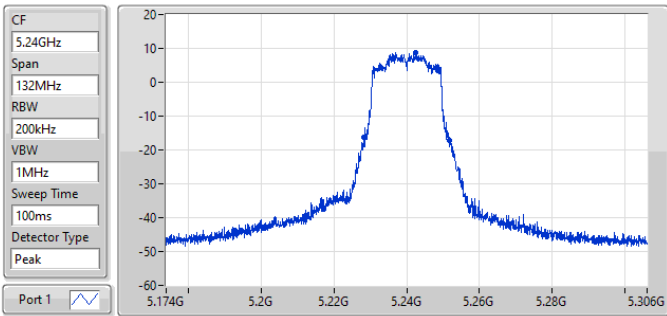


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)

EBW

5240MHz

27/02/2023



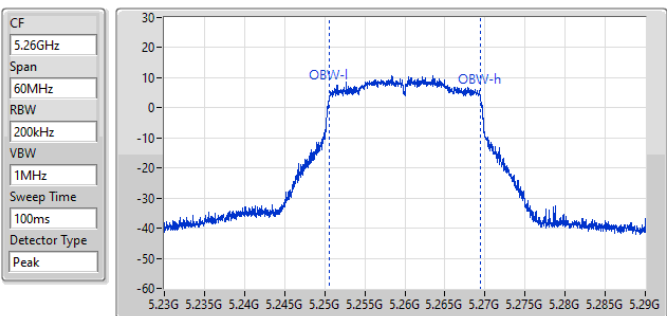
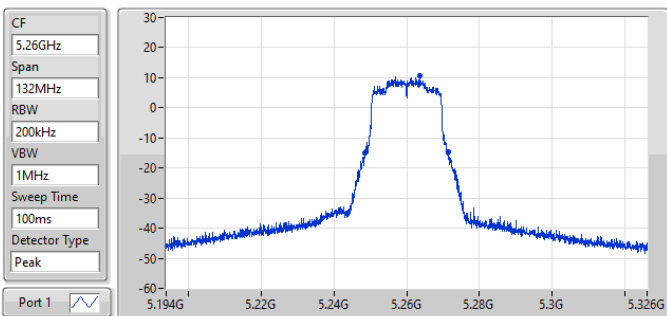
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.496M	5.228252G	5.251748G	18.891M	5.230555G	5.249445G	Inf	1

5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)

EBW

5260MHz

27/02/2023



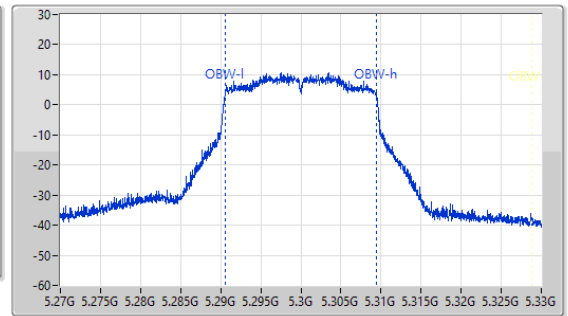
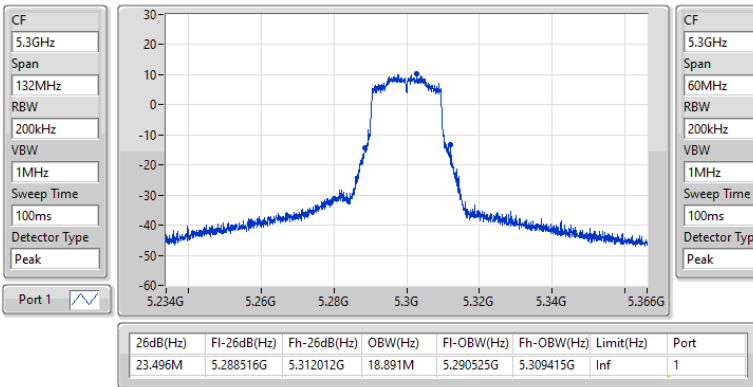
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.77M	5.248582G	5.271352G	18.891M	5.250555G	5.269445G	Inf	1

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX(Port1)

EBW

5300MHz

27/02/2023

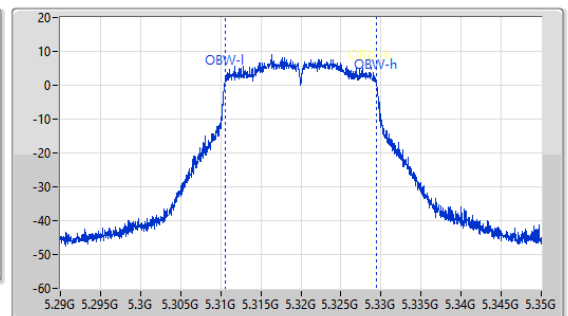
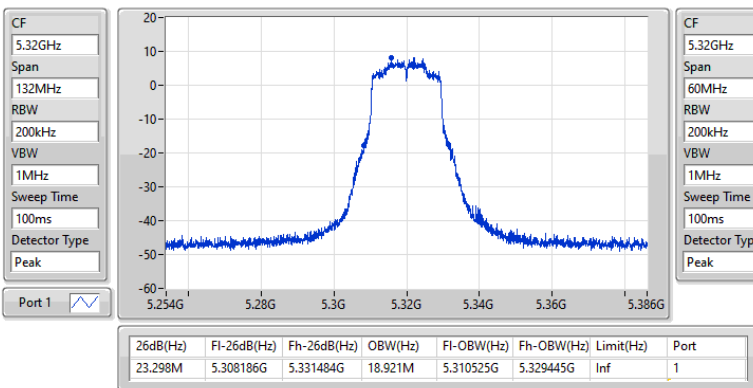


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX(Port1)

EBW

5320MHz

23/05/2023

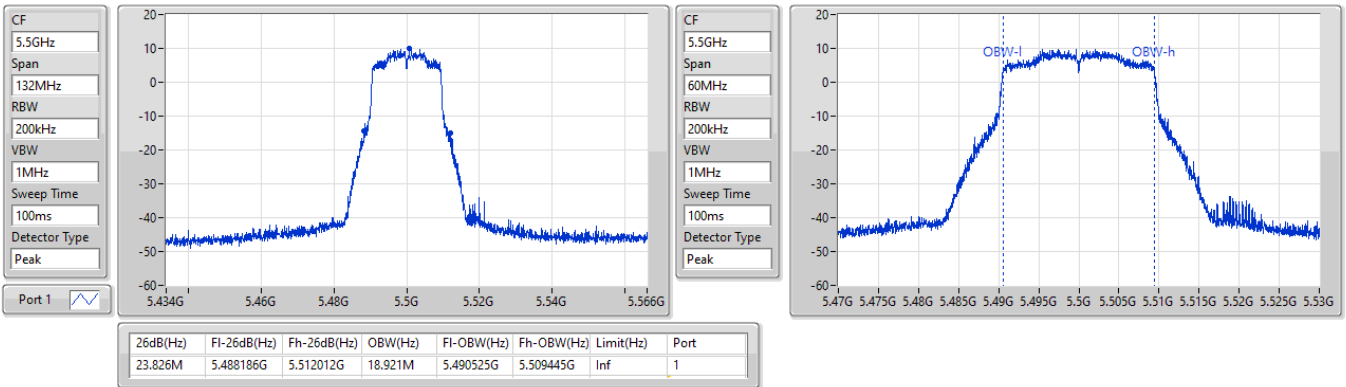


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)

EBW

5500MHz

27/02/2023

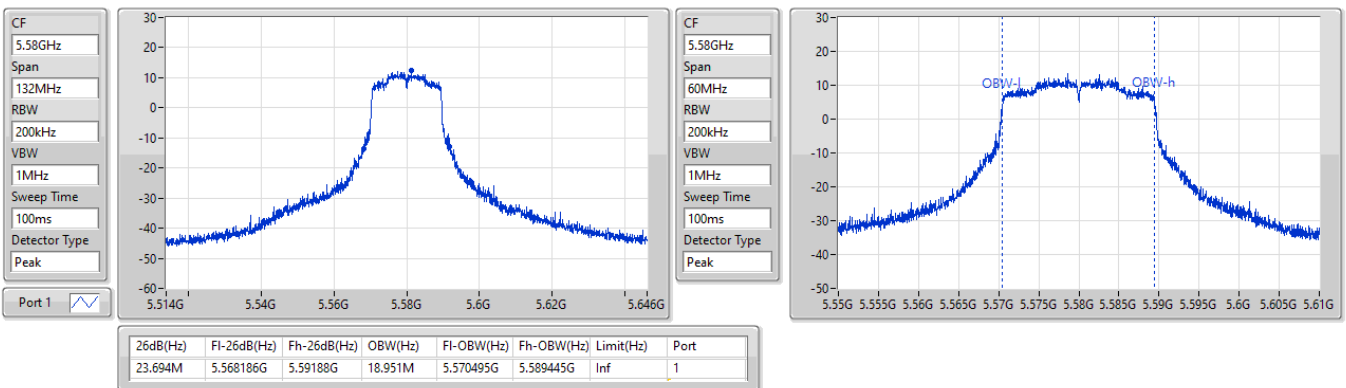


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)

EBW

5580MHz

03/03/2023

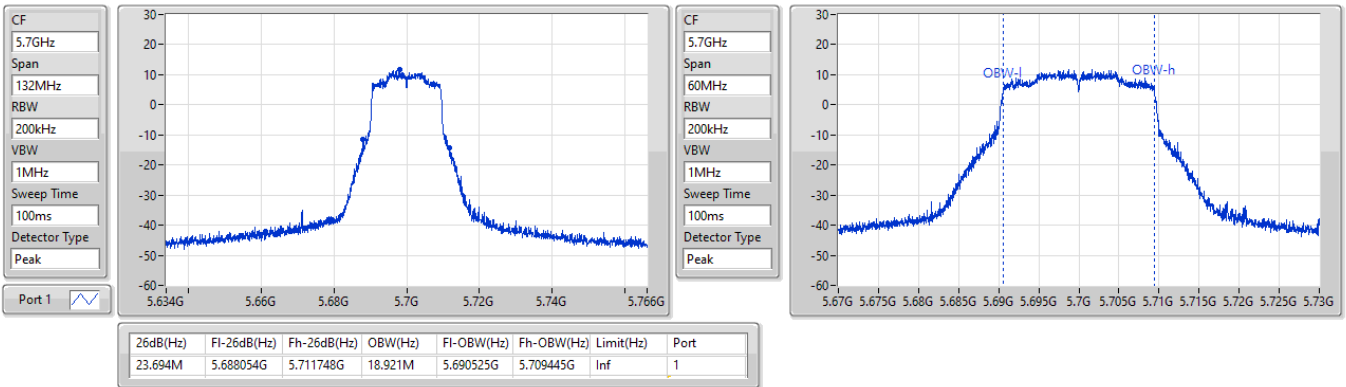


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)

EBW

5700MHz

27/02/2023

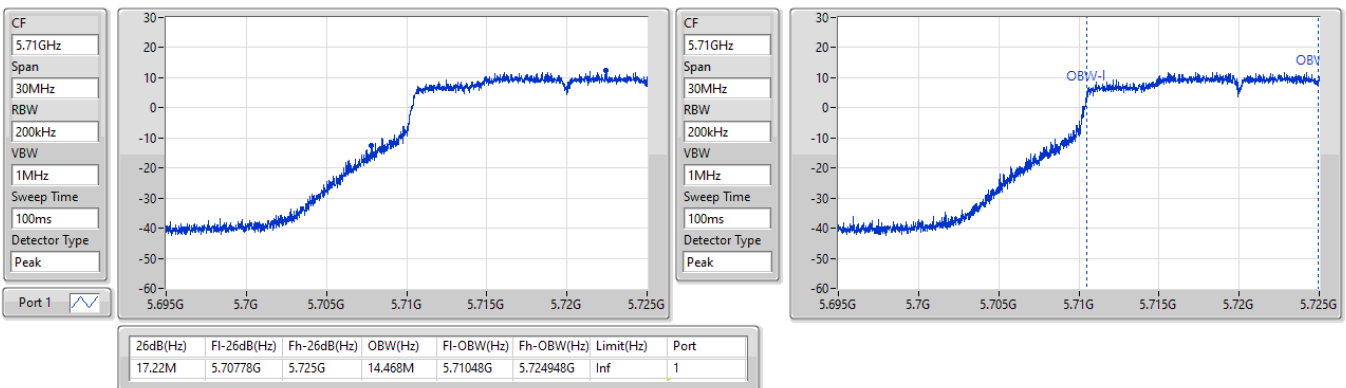


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)

EBW

5720MHz Straddle 5.47-5.725GHz

27/02/2023



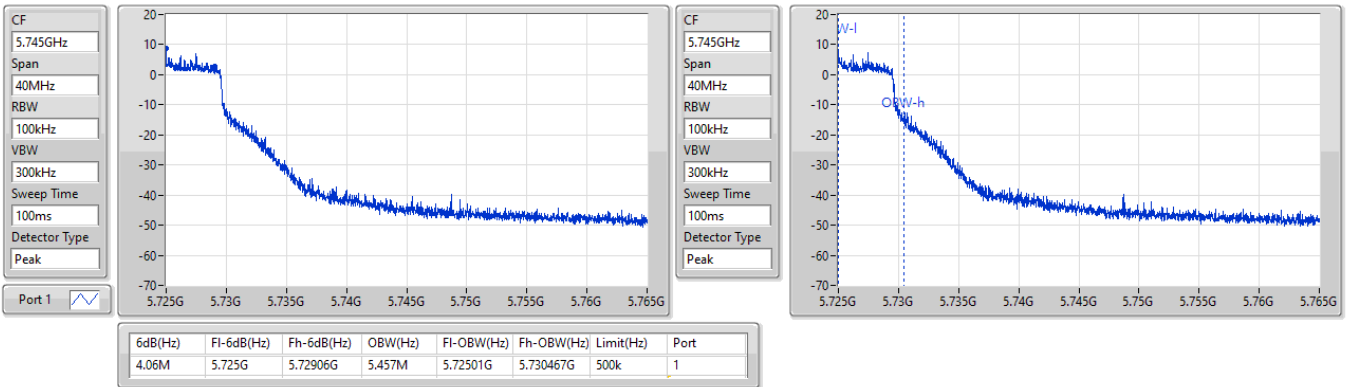


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)

EBW

5720MHz Straddle 5.725-5.85GHz

27/02/2023

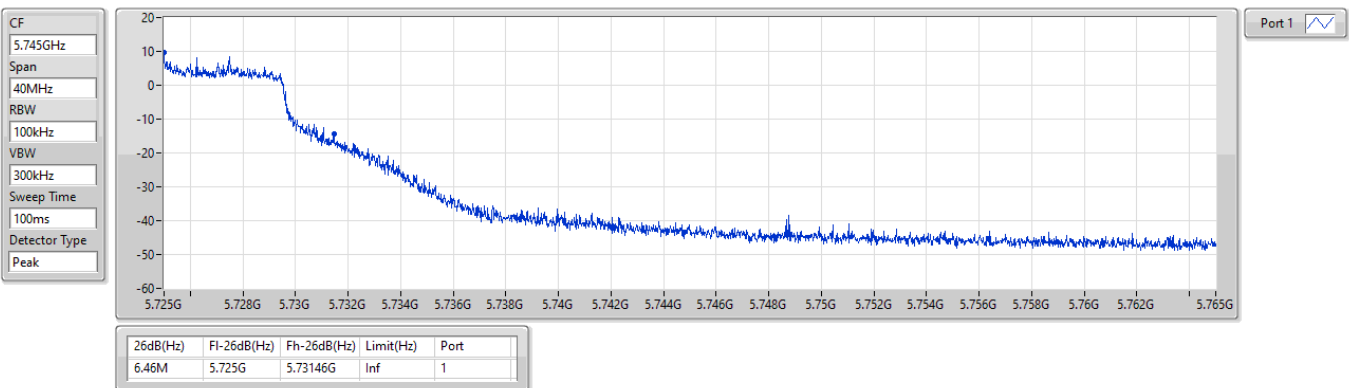


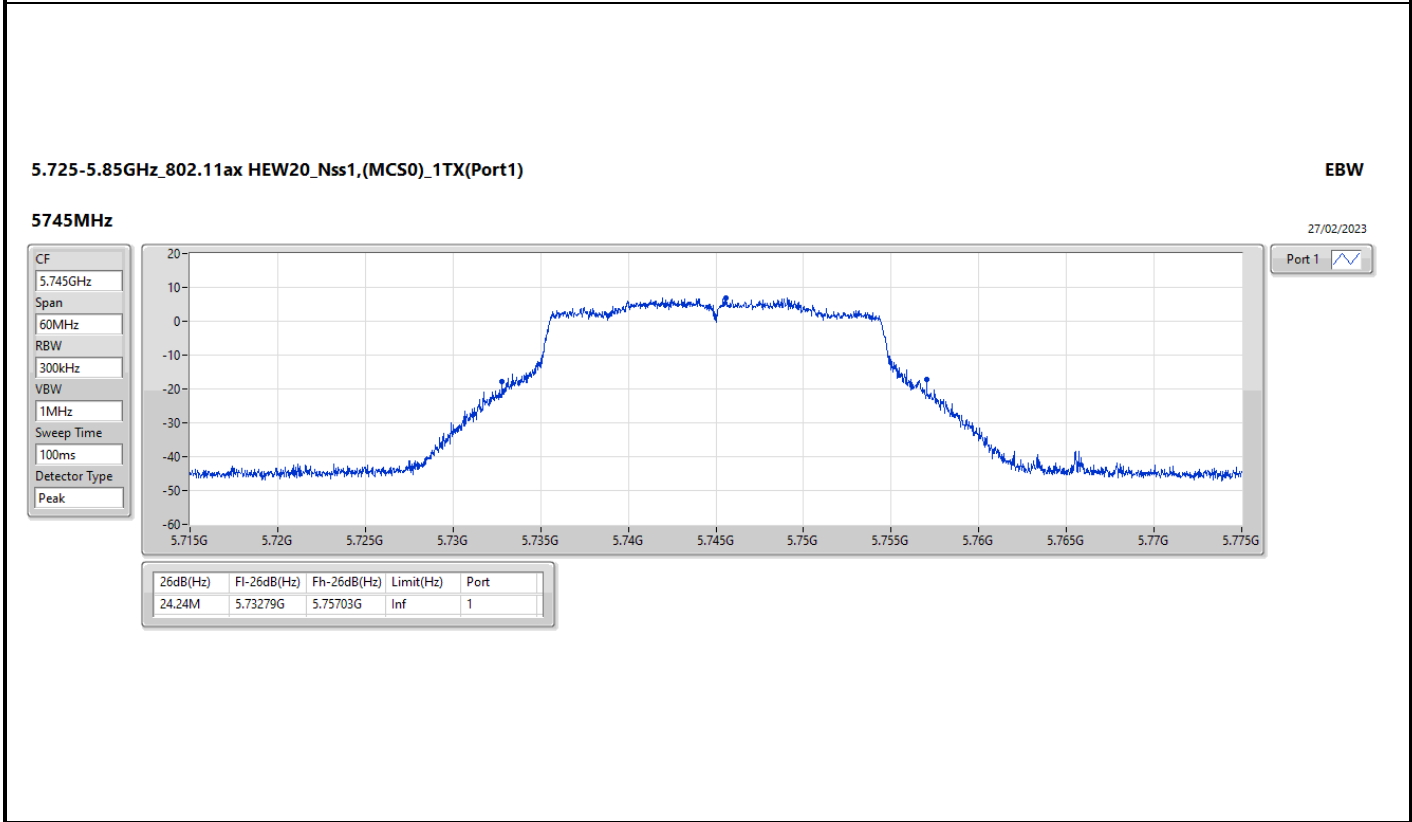
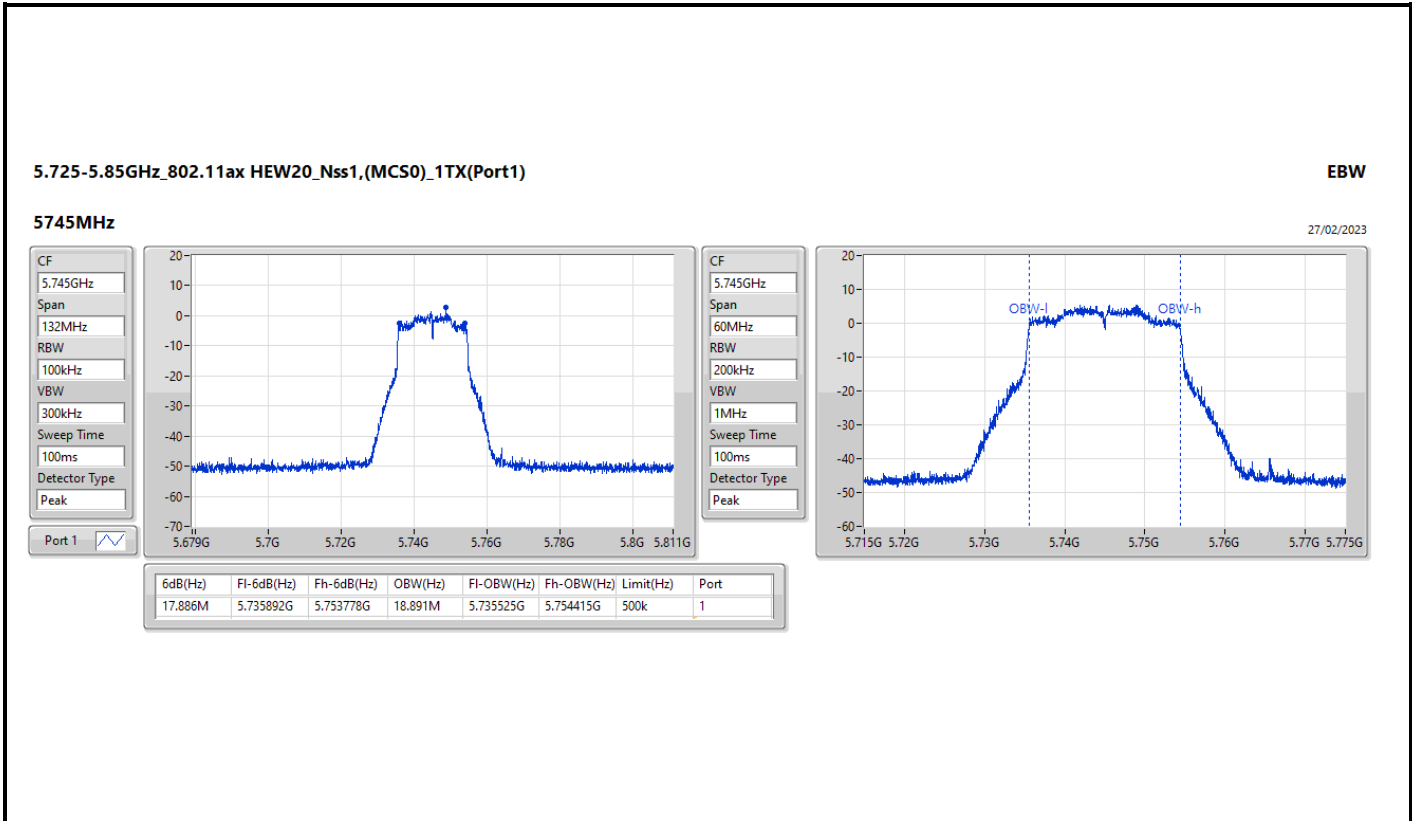
5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port1)

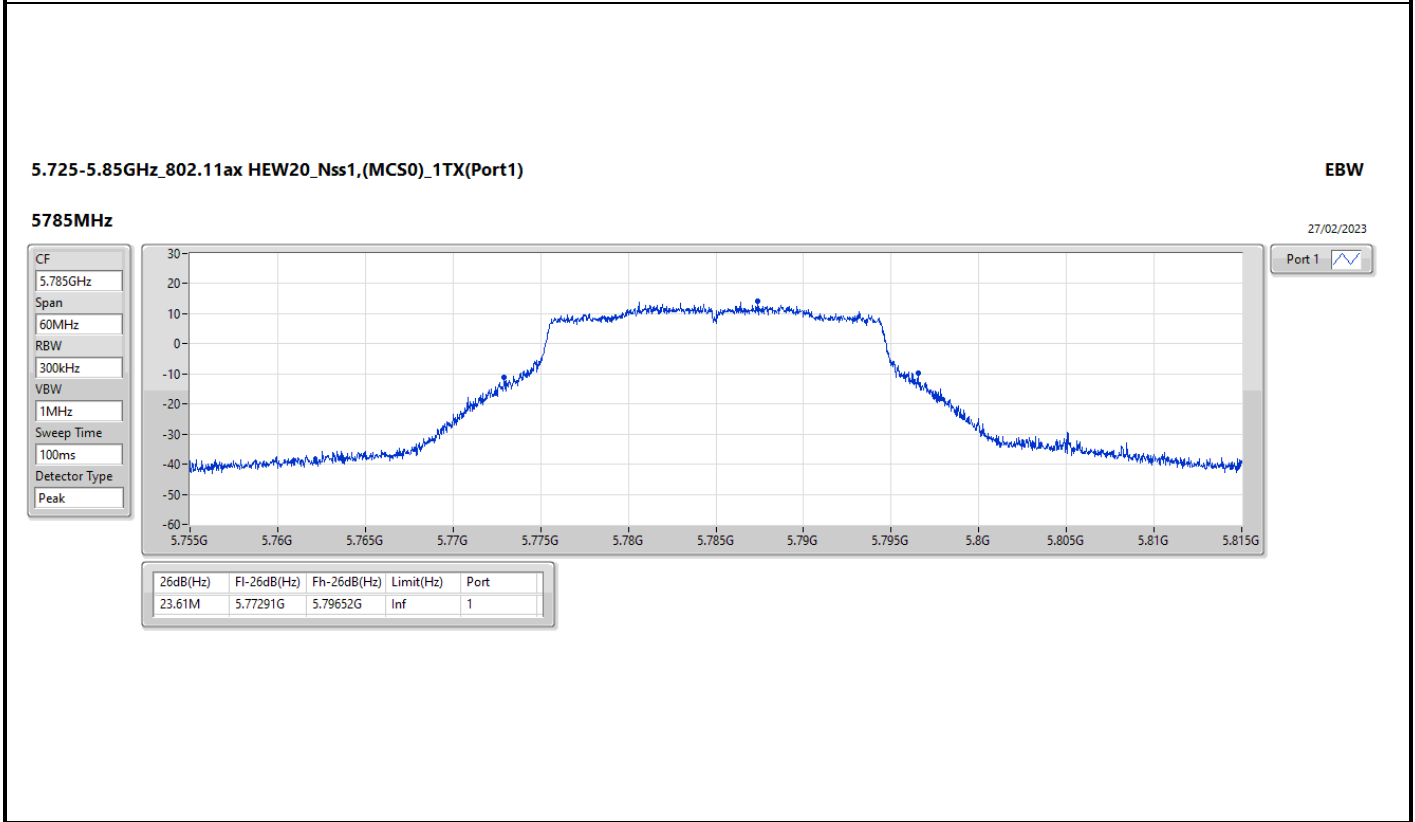
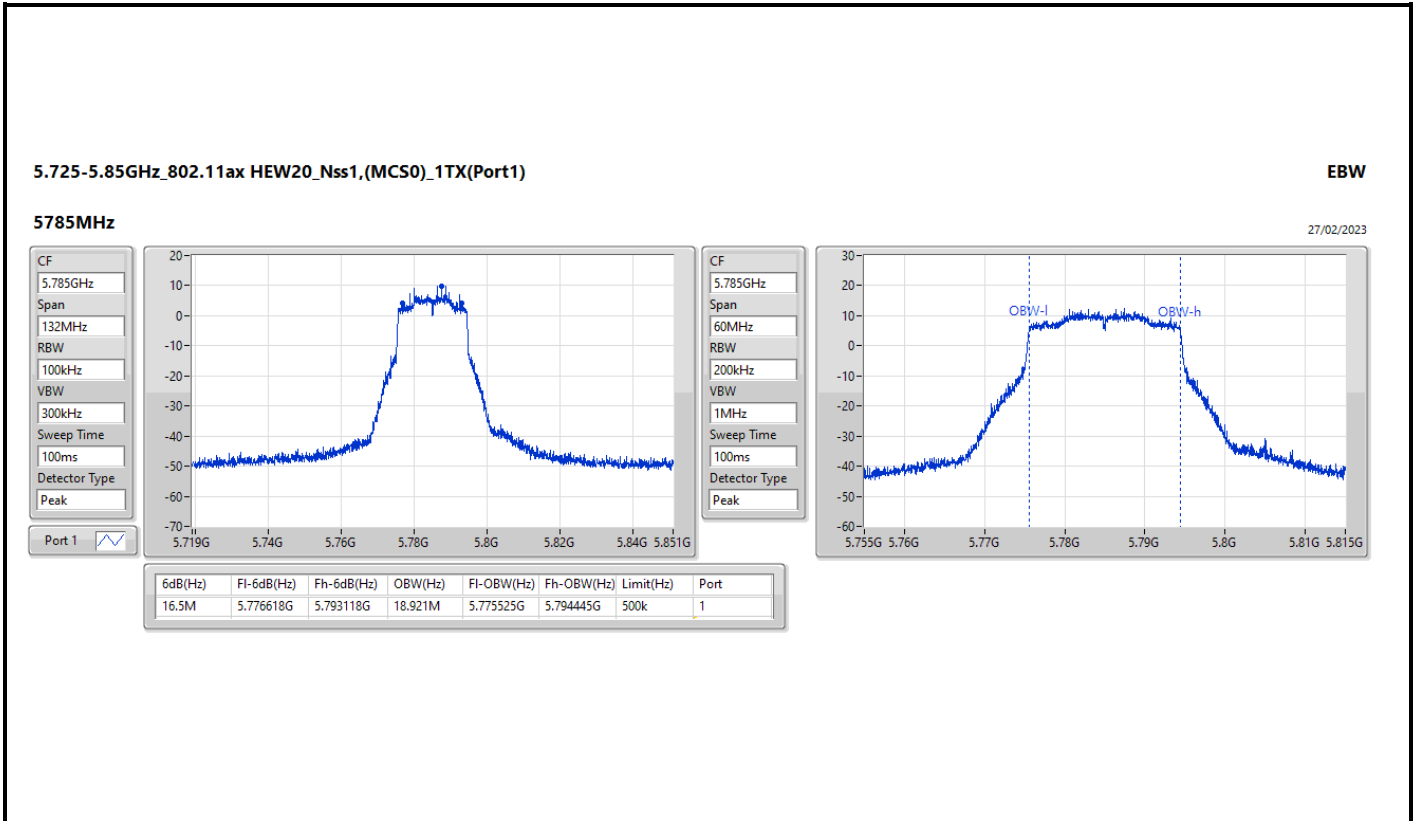
EBW

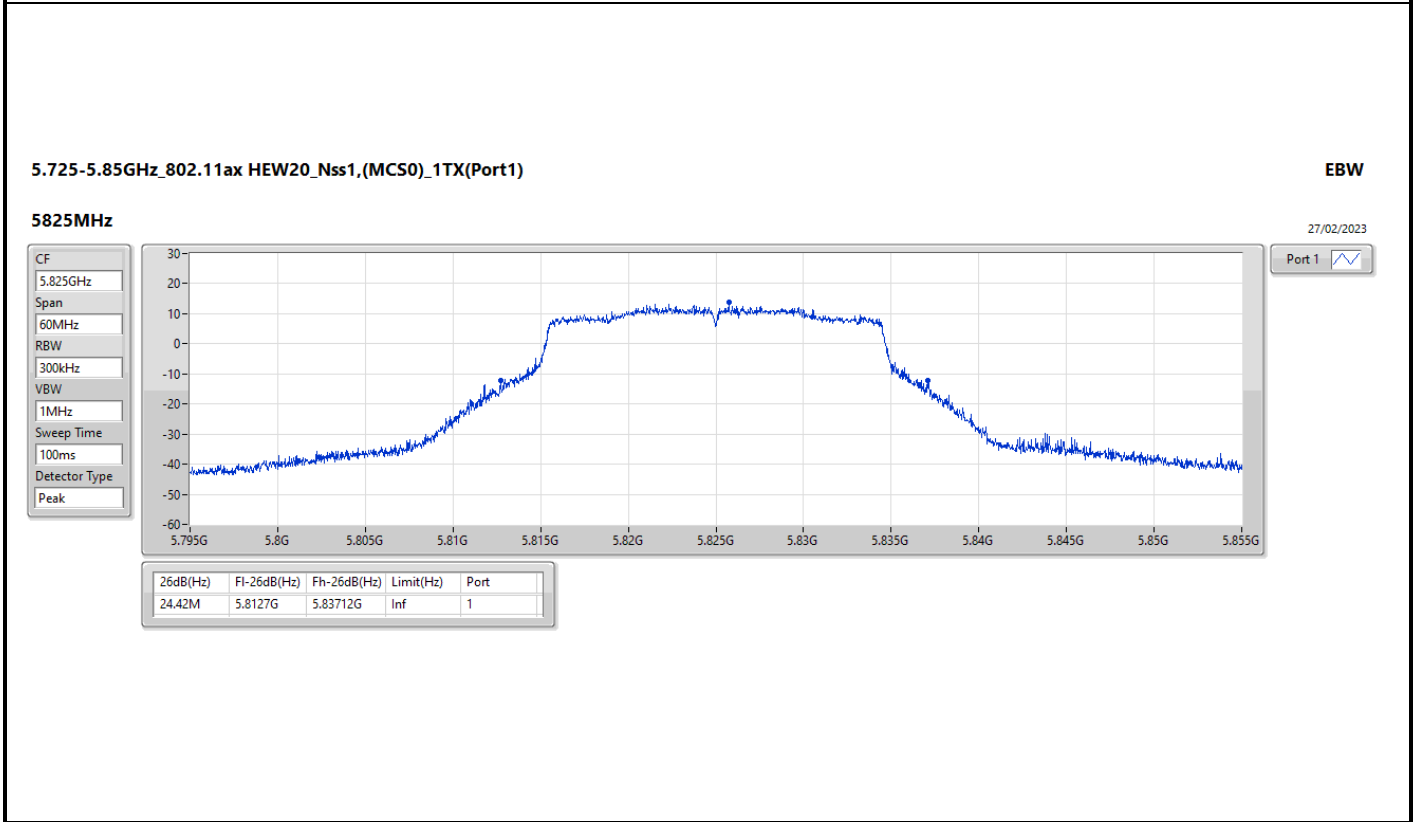
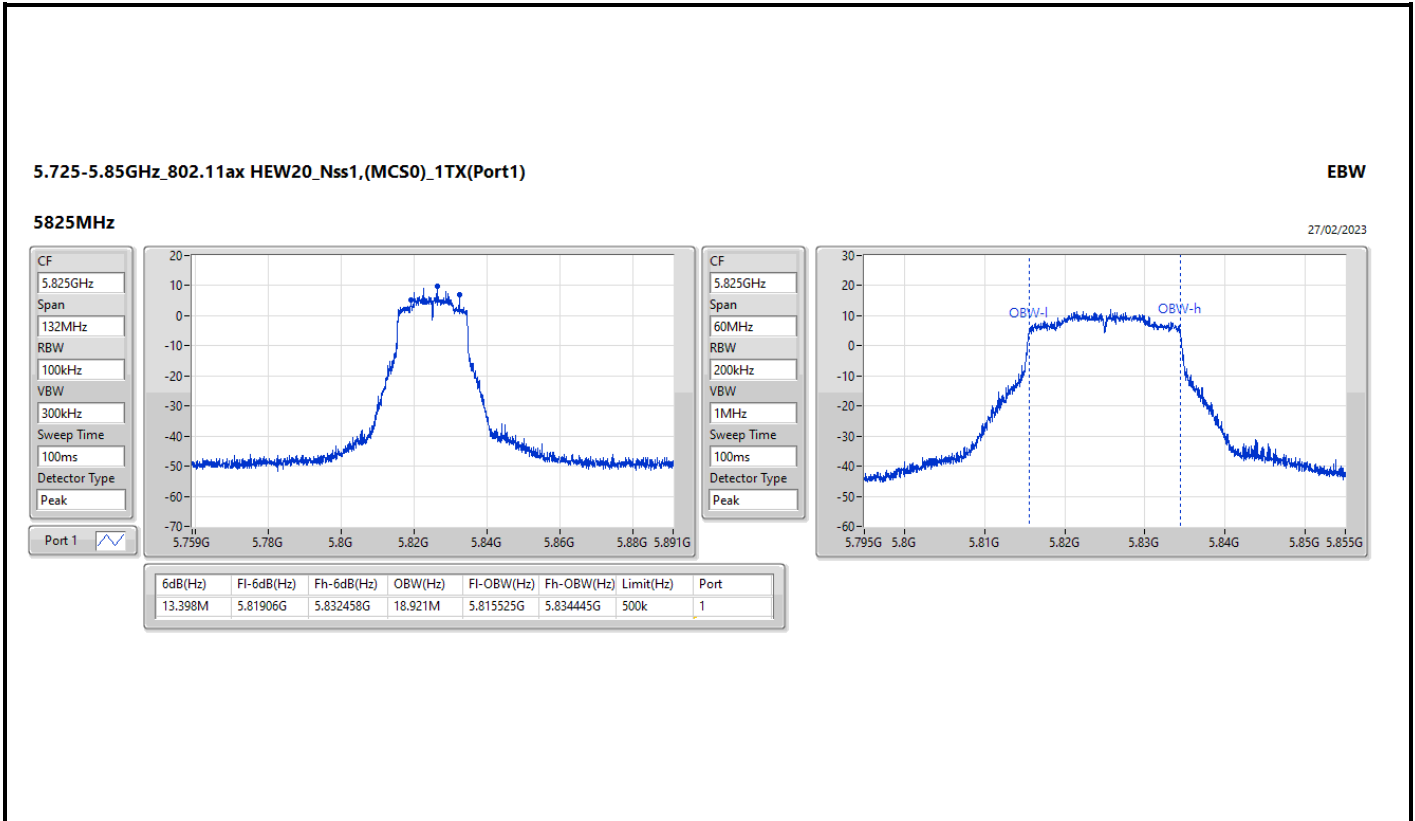
5720MHz Straddle 5.725-5.85GHz

27/02/2023







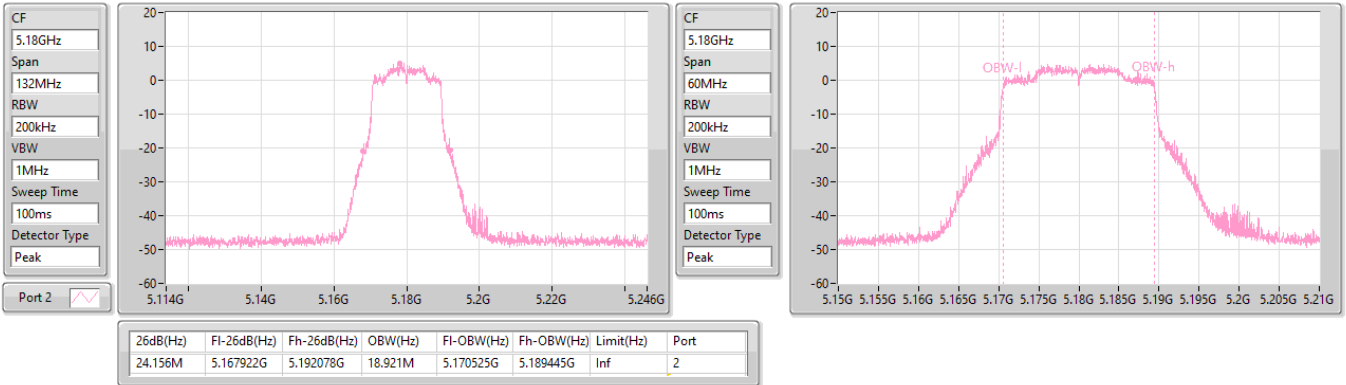


5.15-5.25GHz 802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5180MHz

27/02/2023

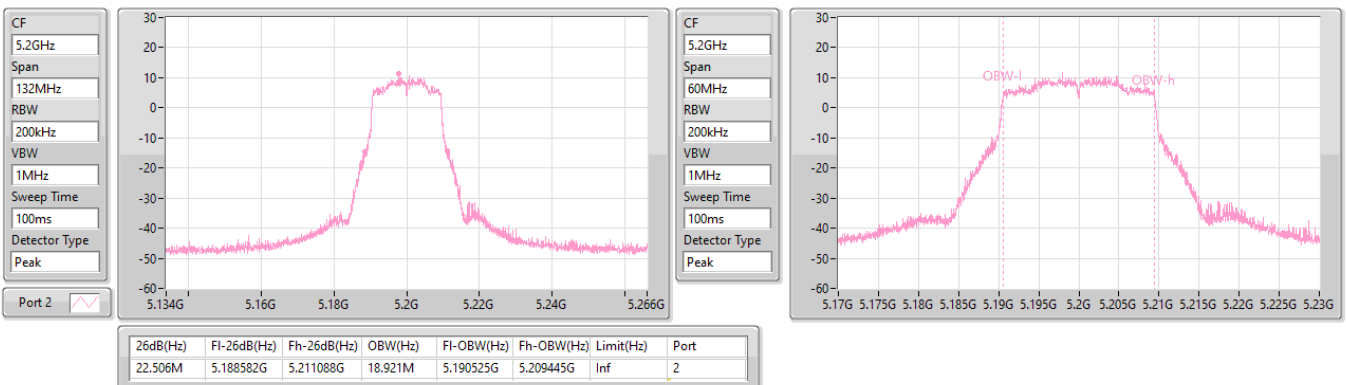


5.15-5.25GHz 802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5200MHz

27/02/2023

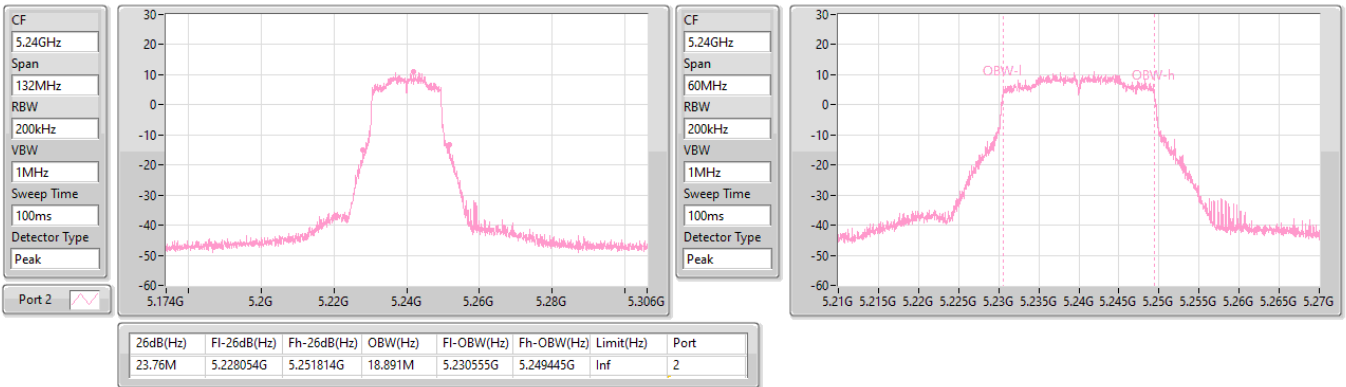


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5240MHz

27/02/2023

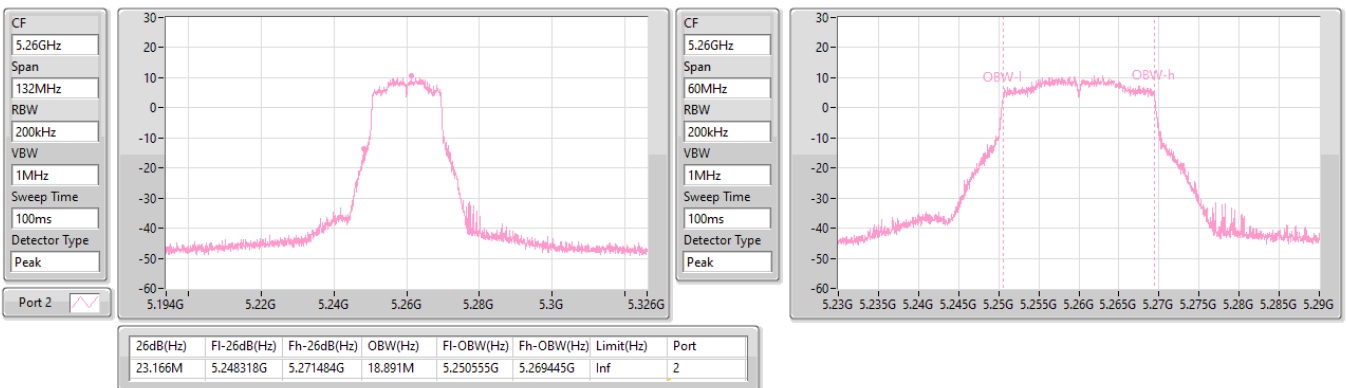


5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5260MHz

27/02/2023

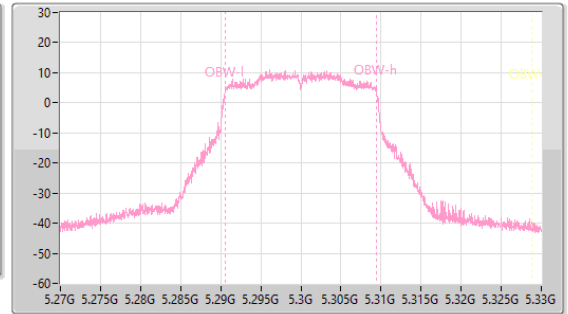
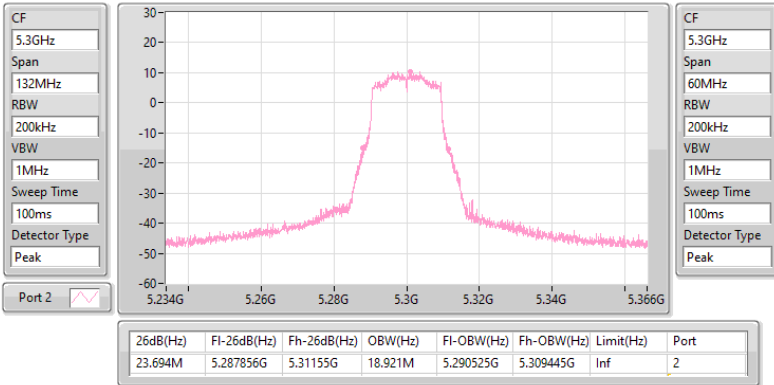


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5300MHz

27/02/2023

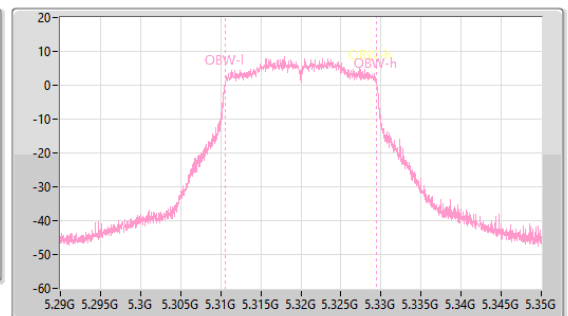
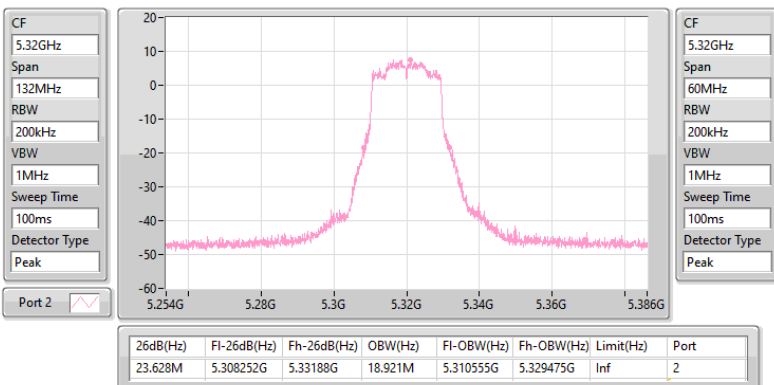


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5320MHz

23/05/2023

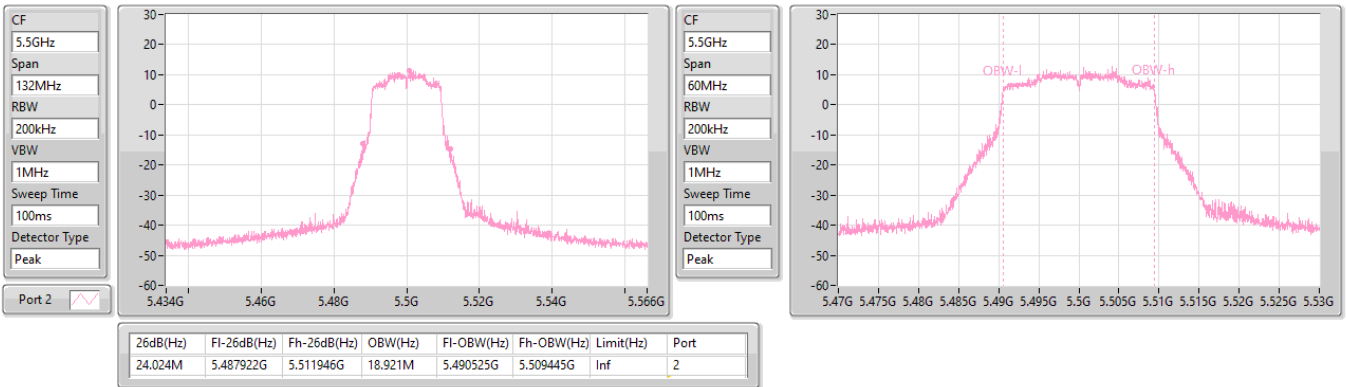


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5500MHz

27/02/2023

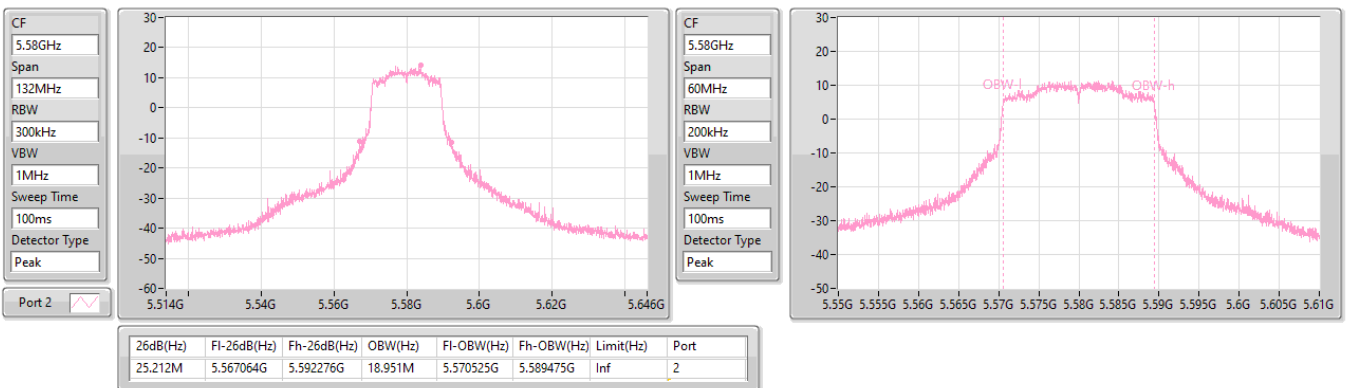


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5580MHz

03/03/2023



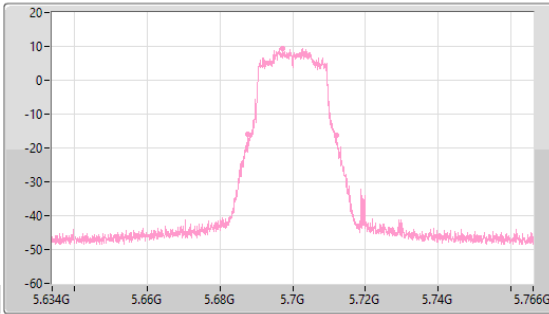
5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

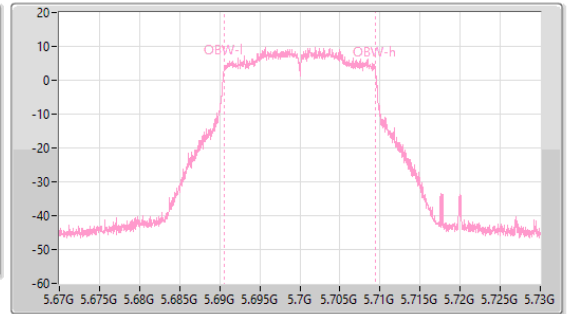
5700MHz

27/02/2023

CF
5.7GHz
Span
132MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.7GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.288M	5.687658G	5.711946G	18.891M	5.690525G	5.709415G	Inf	2

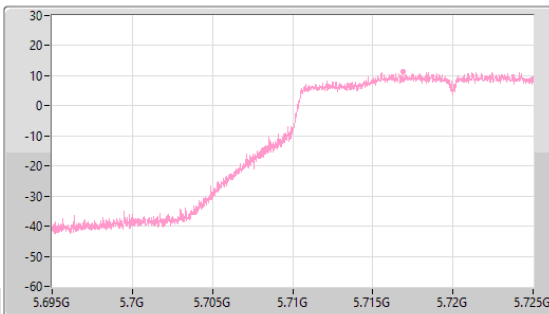
5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

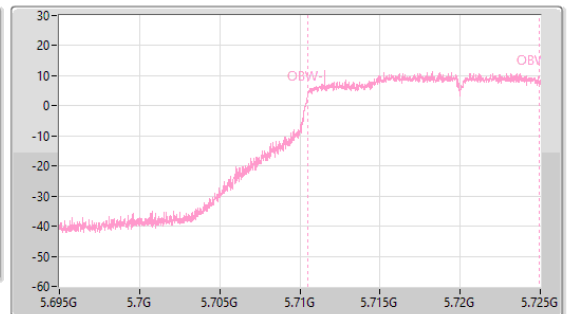
5720MHz Straddle 5.47-5.725GHz

27/02/2023

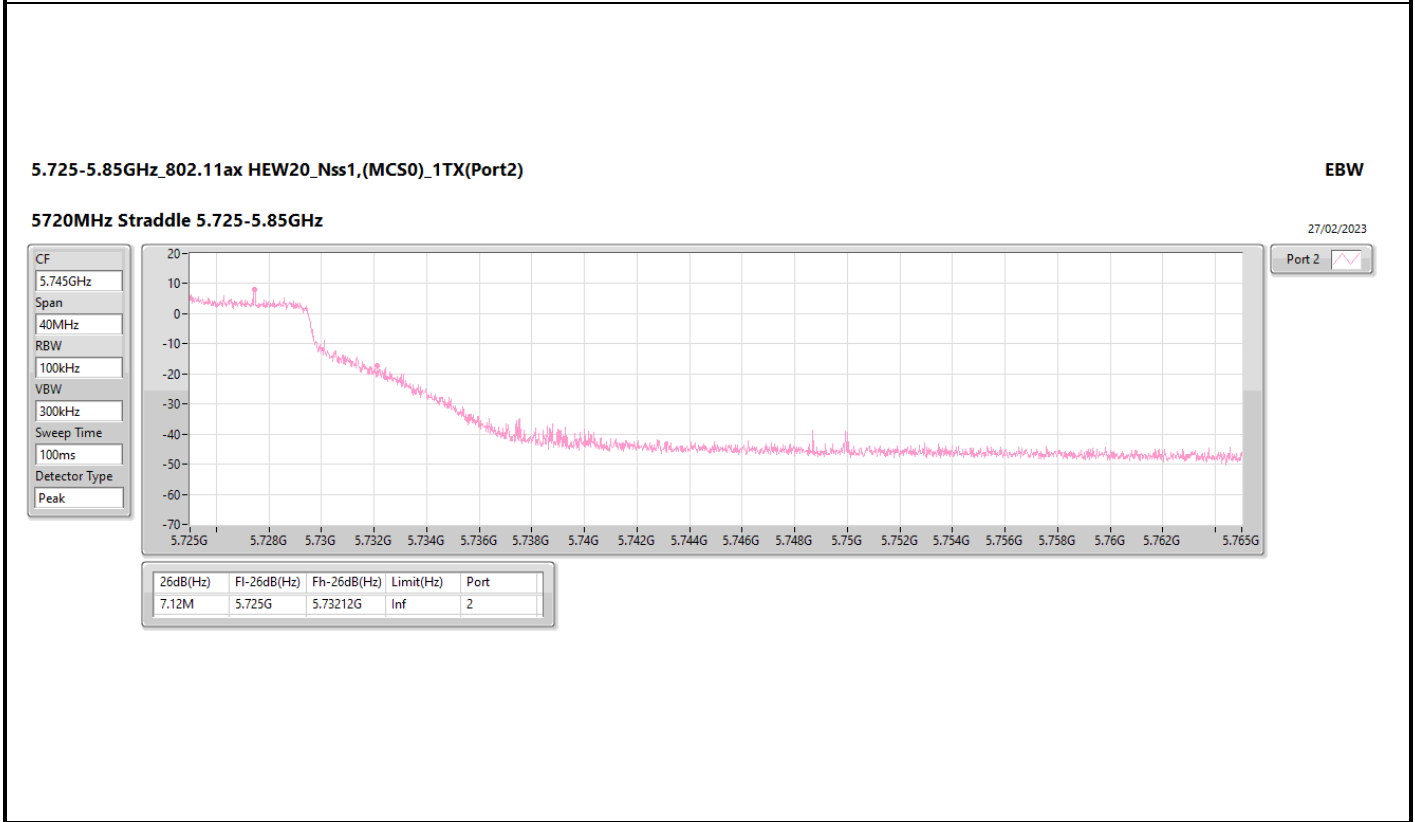
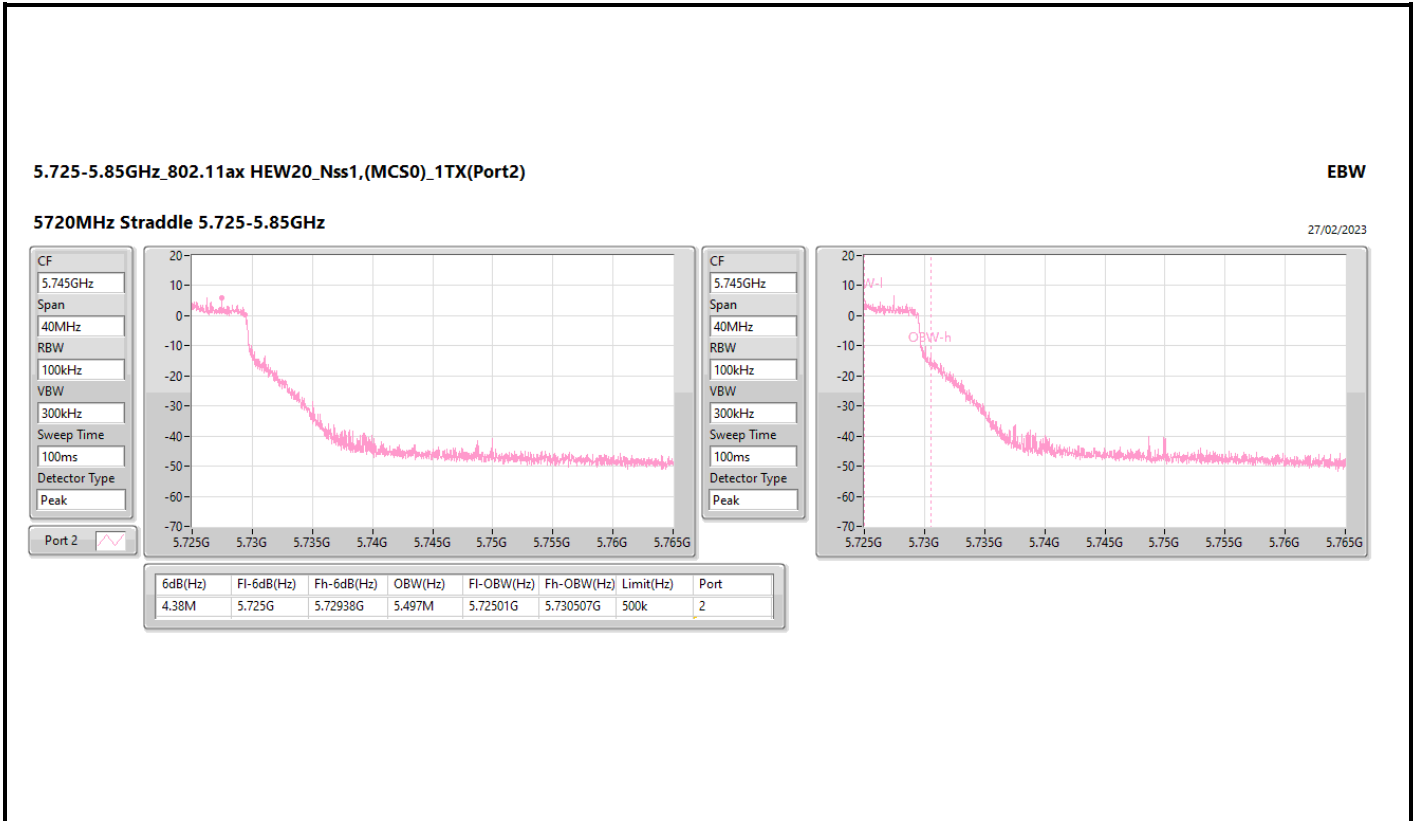
CF
5.71GHz
Span
30MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.71GHz
Span
30MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.815M	5.708185G	5.725G	14.438M	5.71048G	5.724918G	Inf	2

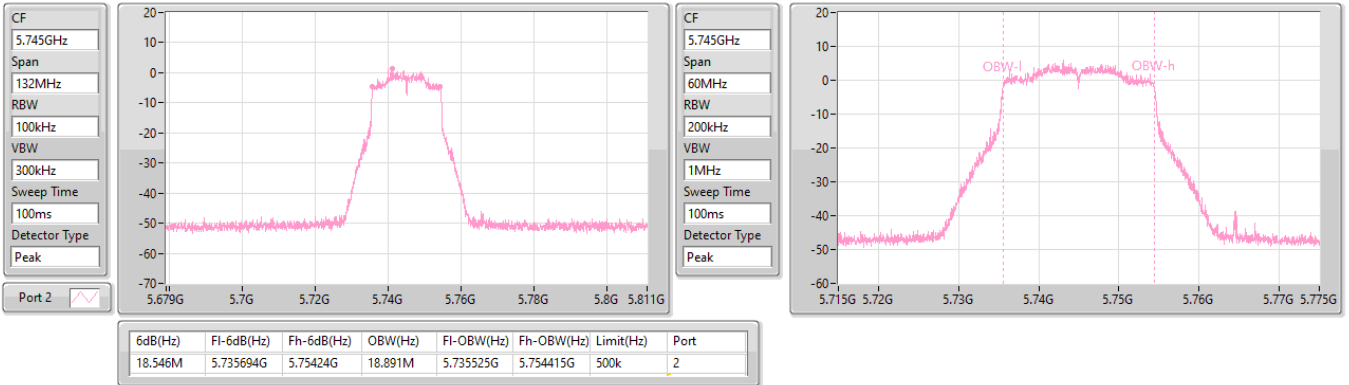


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5745MHz

27/02/2023

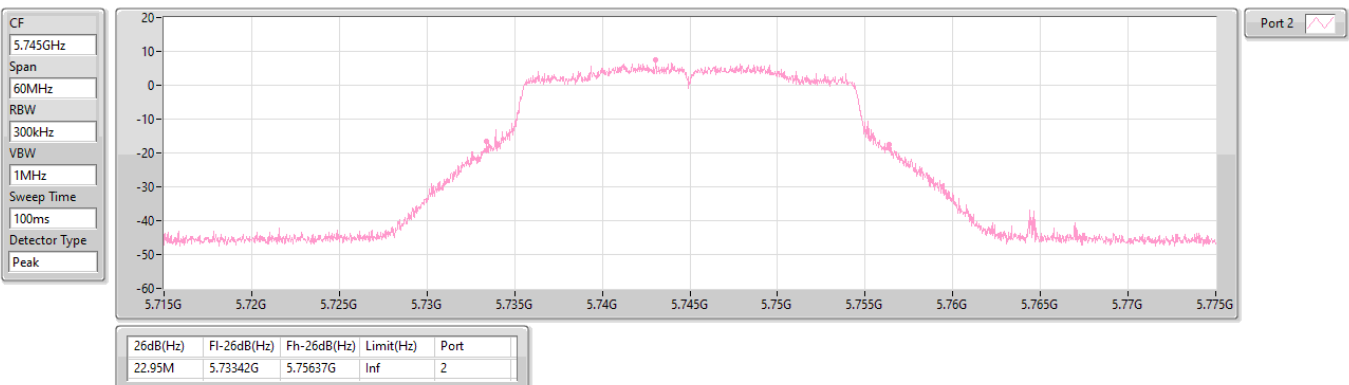


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5745MHz

27/02/2023

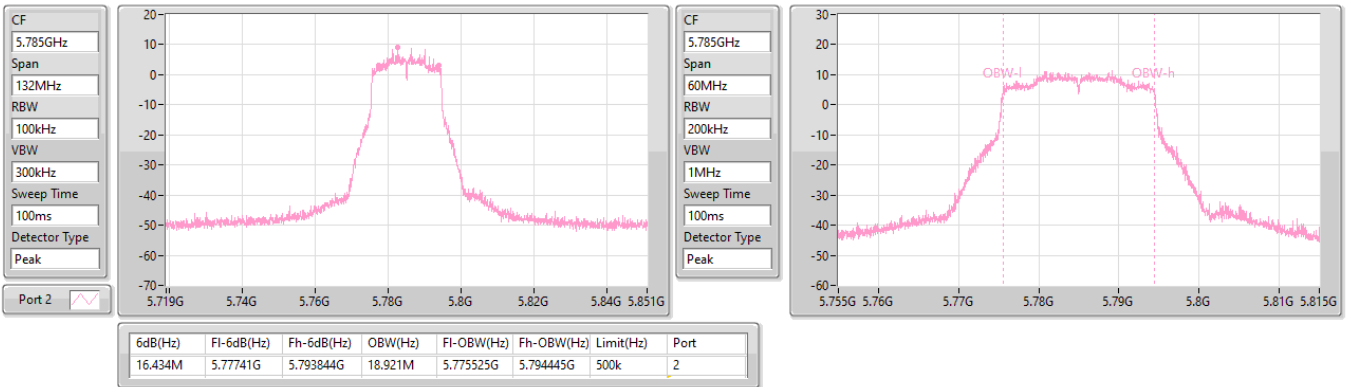


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5785MHz

27/02/2023



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX(Port2)

EBW

5785MHz

27/02/2023

