



FCC RADIO TEST REPORT

FCC ID : QXO-AP4020
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP4020X
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North
Carolina United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North
Carolina United States 27560
Standard : 47 CFR FCC Part 15.407

The product was received on Jun. 27, 2024, and testing was started from Nov. 18, 2024 and completed on May 09, 2025. 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 variant 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

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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: HE1-D1-1 Ver2.5
FCC ID: QXO-AP4020

Page Number : 3 of 47
Issued Date : Jun. 04, 2025
Report Version : 01



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 Equivalent Isotropically Radiated Power (E.I.R.P.)	PASS	-
3.4	15.407(a)	Peak Power Spectral Density (E.I.R.P.)	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-
3.6	15.407(d)	Contention-Based Protocol	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: Barry Hsiao

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
5925 ~ 7125	a,ax (HEW20), be (EHT20)	5955 ~ 7115	1 ~ 233 [59]
5925 ~ 7125	a,ax (HEW40), be (EHT40)	5965 ~ 7085	3 ~ 227 [29]
5925 ~ 7125	a,ax (HEW80), be (EHT80)	5985 ~ 7025	7 ~ 215 [14]
5925 ~ 7125	ax (HEW160), be (EHT160)	6025 ~ 6985	15 ~ 207 [7]
5925 ~ 7125	be (EHT320)	6105 ~ 6905	31 ~ 191 [6]

Non-Beamforming_Radio 3_1T1S

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11a	20	1TX
6.425-6.525GHz	802.11a	20	1TX
6.525-6.875GHz	802.11a	20	1TX
6.875-7.125GHz	802.11a	20	1TX
5.925-6.425GHz	802.11be EHT20	20	1TX
6.425-6.525GHz	802.11be EHT20	20	1TX
6.525-6.875GHz	802.11be EHT20	20	1TX
6.875-7.125GHz	802.11be EHT20	20	1TX
5.925-6.425GHz	802.11be EHT40	40	1TX
6.425-6.525GHz	802.11be EHT40	40	1TX
6.525-6.875GHz	802.11be EHT40	40	1TX
6.875-7.125GHz	802.11be EHT40	40	1TX
5.925-6.425GHz	802.11be EHT80	80	1TX
6.425-6.525GHz	802.11be EHT80	80	1TX
6.525-6.875GHz	802.11be EHT80	80	1TX
6.875-7.125GHz	802.11be EHT80	80	1TX
5.925-6.425GHz	802.11be EHT160	160	1TX
6.425-6.525GHz	802.11be EHT160	160	1TX
6.525-6.875GHz	802.11be EHT160	160	1TX
6.875-7.125GHz	802.11be EHT160	160	1TX
5.925-6.425GHz	802.11be EHT320	320	1TX
6.425-6.525GHz	802.11be EHT320	320	1TX
6.525-6.875GHz	802.11be EHT320	320	1TX

**Non-Beamforming_Radio 3_2T1S**

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11a	20	2TX
6.425-6.525GHz	802.11a	20	2TX
6.525-6.875GHz	802.11a	20	2TX
6.875-7.125GHz	802.11a	20	2TX
5.925-6.425GHz	802.11be EHT20	20	2TX
6.425-6.525GHz	802.11be EHT20	20	2TX
6.525-6.875GHz	802.11be EHT20	20	2TX
6.875-7.125GHz	802.11be EHT20	20	2TX
5.925-6.425GHz	802.11be EHT40	40	2TX
6.425-6.525GHz	802.11be EHT40	40	2TX
6.525-6.875GHz	802.11be EHT40	40	2TX
6.875-7.125GHz	802.11be EHT40	40	2TX
5.925-6.425GHz	802.11be EHT80	80	2TX
6.425-6.525GHz	802.11be EHT80	80	2TX
6.525-6.875GHz	802.11be EHT80	80	2TX
6.875-7.125GHz	802.11be EHT80	80	2TX
5.925-6.425GHz	802.11be EHT160	160	2TX
6.425-6.525GHz	802.11be EHT160	160	2TX
6.525-6.875GHz	802.11be EHT160	160	2TX
6.875-7.125GHz	802.11be EHT160	160	2TX
5.925-6.425GHz	802.11be EHT320	320	2TX
6.425-6.525GHz	802.11be EHT320	320	2TX
6.525-6.875GHz	802.11be EHT320	320	2TX

**Non-Beamforming_Radio 3_2T2S**

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11be EHT20	20	2TX
6.425-6.525GHz	802.11be EHT20	20	2TX
6.525-6.875GHz	802.11be EHT20	20	2TX
6.875-7.125GHz	802.11be EHT20	20	2TX
5.925-6.425GHz	802.11be EHT40	40	2TX
6.425-6.525GHz	802.11be EHT40	40	2TX
6.525-6.875GHz	802.11be EHT40	40	2TX
6.875-7.125GHz	802.11be EHT40	40	2TX
5.925-6.425GHz	802.11be EHT80	80	2TX
6.425-6.525GHz	802.11be EHT80	80	2TX
6.525-6.875GHz	802.11be EHT80	80	2TX
6.875-7.125GHz	802.11be EHT80	80	2TX
5.925-6.425GHz	802.11be EHT160	160	2TX
6.425-6.525GHz	802.11be EHT160	160	2TX
6.525-6.875GHz	802.11be EHT160	160	2TX
6.875-7.125GHz	802.11be EHT160	160	2TX
5.925-6.425GHz	802.11be EHT320	320	2TX
6.425-6.525GHz	802.11be EHT320	320	2TX
6.525-6.875GHz	802.11be EHT320	320	2TX

Beamforming_Radio 3

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11be EHT20-BF	20	2TX
6.425-6.525GHz	802.11be EHT20-BF	20	2TX
6.525-6.875GHz	802.11be EHT20-BF	20	2TX
6.875-7.125GHz	802.11be EHT20-BF	20	2TX
5.925-6.425GHz	802.11be EHT40-BF	40	2TX
6.425-6.525GHz	802.11be EHT40-BF	40	2TX
6.525-6.875GHz	802.11be EHT40-BF	40	2TX
6.875-7.125GHz	802.11be EHT40-BF	40	2TX
5.925-6.425GHz	802.11be EHT80-BF	80	2TX
6.425-6.525GHz	802.11be EHT80-BF	80	2TX
6.525-6.875GHz	802.11be EHT80-BF	80	2TX
6.875-7.125GHz	802.11be EHT80-BF	80	2TX
5.925-6.425GHz	802.11be EHT160-BF	160	2TX
6.425-6.525GHz	802.11be EHT160-BF	160	2TX
6.525-6.875GHz	802.11be EHT160-BF	160	2TX
6.875-7.125GHz	802.11be EHT160-BF	160	2TX
5.925-6.425GHz	802.11be EHT320-BF	320	2TX
6.425-6.525GHz	802.11be EHT320-BF	320	2TX
6.525-6.875GHz	802.11be EHT320-BF	320	2TX

**Beamforming_Radio 1_Scan**

Band	Mode	BWch	Nant
5.925-6.425GHz	a20	20	1TX
6.425-6.525GHz	a20	20	1TX
6.525-6.875GHz	a20	20	1TX
6.875-7.125GHz	a20	20	1TX
5.925-6.425GHz	a40	40	1TX
6.425-6.525GHz	a40	40	1TX
6.525-6.875GHz	a40	40	1TX
6.875-7.125GHz	a40	40	1TX
5.925-6.425GHz	a80	80	1TX
6.425-6.525GHz	a80	80	1TX
6.525-6.875GHz	a80	80	1TX
6.875-7.125GHz	a80	80	1TX
5.925-6.425GHz	a160	160	1TX
6.425-6.525GHz	a160	160	1TX
6.525-6.875GHz	a160	160	1TX
6.875-7.125GHz	a160	160	1TX

Note:

- ♦ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ EHT20, EHT40, EHT80, EHT160 and EHT320 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ The channel defined in the IEEE Standard P802.11ax™/D6.1.
- ♦ Evaluated EHT20/EHT40/EHT80/EHT160 mode only due to the similar modulation. The power setting of HEW20/HEW40/HEW80/HEW160 mode are the same or lower than EHT20/EHT40/EHT80/EHT160.

**1.1.2 Antenna Information**

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	AWAN	AW135SM003	Dipole	Reverse SMA	2.4G+5G	Radio 1_2.4G
						Radio 2_5G
2	AWAN	AW135SM003	Dipole	Reverse SMA	2.4G+5G	Radio 1_2.4G
						Radio 2_5G
3	AWAN	AW135SM003	Dipole	Reverse SMA	5G	Radio 3_5G
4	AWAN	AW135SM003	Dipole	Reverse SMA	5G+BT	Radio 3_5G
						BLE_chain 0 External
5	AWAN	AW158SM001-00	Dipole	I-Pex	6G	Radio 3_6G
6	AWAN	AW158SM001-00	Dipole	I-Pex	6G	Radio 3_6G
7	Sercomm	6172005QWA03	PIFA	I-Pex	2.4G+5G+6G	Radio 1_Scan
8	Sercomm	6172005QWA08	PIFA	I-Pex	BT	BLE_chain 0 Internal
9	Sercomm	6172005QWA09	PIFA	I-Pex	BT	BLE_chain 1_H
10	Sercomm	6172005QWA10	PIFA	I-Pex	BT	BLE_chain 1_V
11	Sercomm	6172005QWA11	PIFA	I-Pex	GPS	N/A
12	Extreme	WX4PB6508R	Dual-Polarized MIMO Panel	Reverse SMA	2.4G+5G+BT	Radio 1_2.4G
						Radio 2_5G
						Radio 3_5G
						BLE_chain 0 External
13	Extreme	AIO-DQ15021	MIMO-directional	Reverse SMA	2.4G+5G+BT	Radio 1_2.4G
						Radio 2_5G
						Radio 3_5G
						BLE_chain 0 External



Ant.	Port	Gain (dBi)												
		2.4G	5G				6G				BT0 External	BT0 Internal	BT1-H	BT1-V
			UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8				
1	1	3.14	5.19	5.33	5.29	5.16	-	-	-	-	-	-	-	-
2	2	3.14	5.19	5.33	5.29	5.16	-	-	-	-	-	-	-	-
3	1	-	5.19	5.33	-	-	-	-	-	-	-	-	-	-
4	2	-	5.19	5.33	-	-	-	-	-	-	3.14	-	-	-
5	1	-	-	-	-	-	5.13	4.95	5.36	5.44	-	-	-	-
6	2	-	-	-	-	-	5.13	4.95	5.36	5.44	-	-	-	-
7	1	4.5	5	5	5	5	5	5	5	5	-	-	-	-
8	1	-	-	-	-	-	-	-	-	-	-	4.9	-	-
9	1	-	-	-	-	-	-	-	-	-	-	-	4.1	
10	2	-	-	-	-	-	-	-	-	-	-	-	-	3.7
11	1	-	-	-	-	-	-	-	-	-	-	-	-	-
12-1	1	8	8	8	8	8	-	-	-	-	-	-	-	-
12-2	2	8	8	8	8	8	-	-	-	-	-	-	-	-
12-3	1	-	8	8	-	-	-	-	-	-	-	-	-	-
12-4	2	-	8	8	-	-	-	-	-	-	8	-	-	-
13-1	1	11.1	15	15	15	15	-	-	-	-	-	-	-	-
13-2	2	11.1	15	15	15	15	-	-	-	-	-	-	-	-
13-3	1	-	15	15	-	-	-	-	-	-	-	-	-	-
13-4	2	-	15	15	-	-	-	-	-	-	11.1	-	-	-

Note 1: The EUT has thirteen antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (1TX/2RX) (Radio 1)

Ant. 1 (port 1) could transmit/receive.

Ant. 12-1 (port 1) could transmit/receive.

Ant. 13-1 (port 1) could transmit/receive

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) (Radio 1)

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

Ant. 12-1 (port 1) and Ant. 12-2 (port 2) could transmit/receive simultaneously.

Ant. 13-1 (port 1) and Ant. 13-2 (port 2) could transmit/receive simultaneously.

For b20, g20 mode (1TX/1RX) (Radio 1_Scan)

Ant. 7 (port 1) could transmit/receive.

**For 5GHz function:**

For IEEE 802.11 a/n/ac/ax/be mode (1TX/2RX) (Radio 2)

Ant. 1 (port 1) could transmit/receive.

Ant. 12-1 (port 1) could transmit/receive.

Ant. 13-1 (port 1) could transmit/receive.

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

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

Ant. 12-1 (port 1) and Ant. 12-2 (port 2) could transmit/receive simultaneously.

Ant. 13-1 (port 1) and Ant. 13-2 (port 2) could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (1TX/2RX) (Radio 3)

Ant. 3 (port 1) could transmit/receive.

Ant. 12-3 (port 1) could transmit/receive.

Ant. 13-3 (port 1) could transmit/receive.

For IEEE 802.11 a/n/ac/ax/be mode (2TX/2RX) (Radio 3)

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

Ant. 12-3 (port 1) and Ant. 12-4 (port 2) could transmit/receive simultaneously.

Ant. 13-3 (port 1) and Ant. 13-4 (port 2) could transmit/receive simultaneously.

For a20, a40, a80, a160 (1TX/1RX) (Radio 1_Scan)

Ant. 7 (port 1) could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX) (Chain 0)

Ant. 4 (port 2) could transmit/receive.

Ant. 8 (port 1) could transmit/receive.

Ant. 12-4 (port 2) could transmit/receive.

Ant. 13-4 (port 2) could transmit/receive.

For IEEE 802.15.1 Bluetooth mode (1TX/2RX) (Chain 1)

Ant. 9 (port 1) or Ant. 10 (port 2) could transmit/receive

Support diversity function and pre-tested on each single chain, the worst case was Ant. 9 (port 1) and it was recorded in this test report.

For 6GHz function:

For IEEE 802.11 a/ax/be mode (1TX/2RX) (Radio3)

Ant. 5 (port 1) could transmit/receive.

For IEEE 802.11 a/ax/be mode (2TX/2RX) (Radio 3)

Ant. 5 (port 1) and Ant. 6 (port 2) could transmit/receive simultaneously.

For 11a20, 11a40, 11a80, 11a160 (1TX/1RX) (Radio 1_Scan)

Ant. 7 (port 1) could transmit/receive.



1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / PoE		
EUT Function	☒	Indoor Access Point	☐ Subordinate
	☐	Indoor Client	☐ Standard Power Access Point
	☐	Dual Client	☐ Standard Client
	☐	Fixed Client	
Beamforming Function	☒	With beamforming	☐ Without beamforming
Resource Unit	☒	Full RU	☐ Partial RU
	☐	MRU(static preamble puncturing)	☐ MRU(dynamic preamble puncturing)
Channel Puncturing	☐	Support	☒ Not support
Software / Firmware Version for CBP (Radio 3)		IQ Engine 10.8r1 fb_AP4020_dev build-97cc051-dbg	
Software / Firmware Version for CBP (Radio 1_Scan)		Linux version 4.19.294 (comedesrt@caeb0ed01ff1) (gcc version 10.3.0 (Buildroot 2021.02.4)) #1 SMP PREEMPT Wed Nov 6 19:38:52 CST 2024	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		
☐	Other:		

Note: The above information was declared by manufacturer.

1.1.4 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR462705AE

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Model name was added. (AP4020X) (Wi-Fi Antenna change to External Antenna)	All test items.

**1.1.5 Mode Test Duty Cycle****Non-Beamforming_Radio 3_1T1S**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss1,(6Mbps)_1TX	0.963	0.16	3.009m	500
802.11be EHT20_Nss1,(MCS0)_1TX	0.989	0.05	2.866m	10Hz (DC>=0.98)
802.11be EHT40_Nss1,(MCS0)_1TX	0.989	0.05	2.848m	10Hz (DC>=0.98)
802.11be EHT80_Nss1,(MCS0)_1TX	0.988	0.05	2.842m	10Hz (DC>=0.98)
802.11be EHT160_Nss1,(MCS0)_1TX	0.981	0.08	1.909m	10Hz (DC>=0.98)
802.11be EHT320_Nss1,(MCS0)_1TX	0.988	0.05	2.847m	10Hz (DC>=0.98)

Non-Beamforming_Radio 3_2T1S

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss1,(6Mbps)_2TX	0.963	0.16	3.009m	500
802.11be EHT20_Nss1,(MCS0)_2TX	0.989	0.05	2.866m	10Hz (DC>=0.98)
802.11be EHT40_Nss1,(MCS0)_2TX	0.988	0.05	2.848m	10Hz (DC>=0.98)
802.11be EHT80_Nss1,(MCS0)_2TX	0.988	0.05	2.842m	10Hz (DC>=0.98)
802.11be EHT160_Nss1,(MCS0)_2TX	0.98	0.09	1.909m	10Hz (DC>=0.98)
802.11be EHT320_Nss1,(MCS0)_2TX	0.989	0.05	2.847m	10Hz (DC>=0.98)

Non-Beamforming_Radio 3_2T2S

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss2,(MCS0)_2TX	0.989	0.05	2.852m	10Hz (DC>=0.98)
802.11be EHT40_Nss2,(MCS0)_2TX	0.989	0.05	2.846m	10Hz (DC>=0.98)
802.11be EHT80_Nss2,(MCS0)_2TX	0.978	0.1	1.462m	1k
802.11be EHT160_Nss2,(MCS0)_2TX	0.978	0.1	1.462m	1k
802.11be EHT320_Nss2,(MCS0)_2TX	0.98	0.09	1.663m	10Hz (DC>=0.98)

Beamforming_Radio 3

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20-BF_Nss1,(MCS0)_2TX	0.961	0.17	4.67m	300
802.11be EHT40-BF_Nss1,(MCS0)_2TX	0.948	0.23	4.669m	300
802.11be EHT80-BF_Nss1,(MCS0)_2TX	0.971	0.13	5.192m	200
802.11be EHT160-BF_Nss1,(MCS0)_2TX	0.925	0.34	5.192m	200
802.11be EHT320-BF_Nss1,(MCS0)_2TX	0.949	0.23	5.379m	200

**Beamforming_Radio 1_Scan**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
a20_Nss1,(6Mbps)_1TX	0.547	2.62	129.375u	10k
a40_Nss1,(6Mbps)_1TX	0.546	2.63	129.375u	10k
a80_Nss1,(6Mbps)_1TX	0.545	2.64	129.375u	10k
a160_Nss1,(6Mbps)_1TX	0.54	2.68	129.375u	10k



1.2 Applicable Standards

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

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

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

- ♦ KDB 987594 D01 v03r01
- ♦ KDB 987594 D02 v03
- ♦ KDB 662911 D01 v02r01
- ♦ KDB 412172 D01 v01r01
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ 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	Simon Cheng	22.5~24.6°C / 52~55%	08/May/2025~09/May/2025
Radiated	03CH03-HY	Simon Cheng	20.5~21.6°C / 52~59%	18/Jan/2025~15/Feb/2025
Radiated (Co-location)	03CH02-HY	Vasari Huang	20.1~21.3°C / 52~56%	05/Feb/2025~07/Feb/2025
Contention Based Protocol (Radio 3)	DFS03-HY	John Yang	21.9~23.1°C / 56~63%	29/Dec/2024~30/Dec/2024
Contention Based Protocol (Radio 1_Scan)	DFS03-HY	John Yang	23.2~24.8°C / 54~61%	18/Nov/2024~19/Nov/2024
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Johnny Yu	21.8~23.9°C / 52~67%	16/Jan/2025~24/Feb/2025



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	1.5 MHz	Confidence levels of 95%
Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	1.2 dB	Confidence levels of 95%
Peak Power Spectral Density (E.I.R.P.)	1.2 dB	Confidence levels of 95%
Unwanted Emissions	4.8 dB	Confidence levels of 95%
Contention-Based Protocol	1 ms	Confidence levels of 95%
Frequency Stability	1.18 ppm	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

Test Software Version	accessMTool_REL_3_3_0_4
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Non-Beamforming_Radio 3_1T1S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5955MHz	61
6195MHz	62
6415MHz	72
6435MHz	66
6475MHz	69
6515MHz	60
6535MHz	59
6695MHz	64
6875MHz	57
6895MHz	57
6995MHz	61
7095MHz	58
7115MHz	35
802.11be EHT20_Nss1,(MCS0)_1TX	-
5955MHz	65
6195MHz	64
6415MHz	71
6435MHz	66
6475MHz	69
6515MHz	59
6535MHz	59
6695MHz	65
6875MHz	61
6895MHz	57
6995MHz	61
7095MHz	57
7115MHz	37
802.11be EHT40_Nss1,(MCS0)_1TX	-
5965MHz	70
6205MHz	70
6405MHz	80
6445MHz	71
6485MHz	75



6525MHz	71
6565MHz	80
6685MHz	74
6885MHz	70
6925MHz	72
7005MHz	73
7085MHz	61
802.11be EHT80_Nss1,(MCS0)_1TX	-
5985MHz	73
6225MHz	78
6385MHz	80
6465MHz	80
6545MHz	77
6625MHz	79
6705MHz	80
6785MHz	68
6865MHz	77
6945MHz	78
7025MHz	75
802.11be EHT160_Nss1,(MCS0)_1TX	-
6025MHz	73
6185MHz	80
6345MHz	80
6505MHz	80
6665MHz	80
6825MHz	73
6985MHz	78
802.11be EHT320_Nss1,(MCS0)_1TX	-
6105MHz	80
6265MHz	80
6425MHz	80
6585MHz	80
6745MHz	80
6905MHz	78

**Non-Beamforming_Radio 3_2T1S**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5955MHz	37
6195MHz	41
6415MHz	43
6435MHz	40
6475MHz	41
6515MHz	42
6535MHz	42
6695MHz	39
6875MHz	37
6895MHz	37
6995MHz	43
7095MHz	38
7115MHz	37
802.11be EHT20_Nss1,(MCS0)_2TX	-
5955MHz	46
6195MHz	52
6415MHz	48
6435MHz	45
6475MHz	46
6515MHz	47
6535MHz	48
6695MHz	41
6875MHz	42
6895MHz	38
6995MHz	39
7095MHz	40
7115MHz	28
802.11be EHT40_Nss1,(MCS0)_2TX	-
5965MHz	51
6205MHz	54
6405MHz	57
6445MHz	55
6485MHz	60
6525MHz	61
6565MHz	64
6685MHz	56
6885MHz	54
6925MHz	57
7005MHz	57
7085MHz	55



802.11be EHT80_Nss1,(MCS0)_2TX	-
5985MHz	59
6225MHz	60
6385MHz	69
6465MHz	70
6545MHz	72
6625MHz	70
6705MHz	64
6785MHz	58
6865MHz	62
6945MHz	63
7025MHz	63
802.11be EHT160_Nss1,(MCS0)_2TX	-
6025MHz	71
6185MHz	71
6345MHz	73
6505MHz	79
6665MHz	73
6825MHz	71
6985MHz	71
802.11be EHT320_Nss1,(MCS0)_2TX	-
6105MHz	73
6265MHz	73
6425MHz	79
6585MHz	78
6745MHz	74
6905MHz	74

**Non-Beamforming_Radio 3_2T2S**

Mode	Power Setting
802.11be EHT20_Nss2,(MCS0)_2TX	-
5955MHz	46
6195MHz	49
6415MHz	52
6435MHz	49
6475MHz	53
6515MHz	51
6535MHz	58
6695MHz	47
6875MHz	45
6895MHz	45
6995MHz	48
7095MHz	44
7115MHz	27
802.11be EHT40_Nss2,(MCS0)_2TX	-
5965MHz	57
6205MHz	60
6405MHz	65
6445MHz	63
6485MHz	66
6525MHz	64
6565MHz	67
6685MHz	61
6885MHz	57
6925MHz	60
7005MHz	54
7085MHz	58
802.11be EHT80_Nss2,(MCS0)_2TX	-
5985MHz	65
6225MHz	65
6385MHz	73
6465MHz	74
6545MHz	75
6625MHz	74
6705MHz	69
6785MHz	66
6865MHz	70
6945MHz	69
7025MHz	62
802.11be EHT160_Nss2,(MCS0)_2TX	-
6025MHz	69



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6185MHz	72
6345MHz	71
6505MHz	77
6665MHz	74
6825MHz	70
6985MHz	70
802.11be EHT320_Nss2,(MCS0)_2TX	-
6105MHz	75
6265MHz	74
6425MHz	74
6585MHz	77
6745MHz	76
6905MHz	74



Test Software Version	PuTTY Release 0.62
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Radio 3

Mode	Power Setting
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-
5955MHz	38
6195MHz	38
6415MHz	43
6435MHz	35
6475MHz	36
6515MHz	37
6535MHz	38
6695MHz	34
6875MHz	39
6895MHz	37
6995MHz	37
7095MHz	29
7115MHz	13
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-
5965MHz	51
6205MHz	43
6405MHz	54
6445MHz	49
6485MHz	48
6525MHz	53
6565MHz	61
6685MHz	52
6885MHz	49
6925MHz	56
7005MHz	45
7085MHz	45
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-
5985MHz	75
6225MHz	73
6385MHz	68
6465MHz	73
6545MHz	79
6625MHz	77
6705MHz	77
6785MHz	72
6865MHz	64
6945MHz	67



7025MHz	71
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6505MHz	80
6665MHz	80
6825MHz	73
6985MHz	80
802.11be EHT320-BF_Nss1,(MCS0)_2TX	-
6105MHz	80
6265MHz	80
6425MHz	80
6585MHz	80
6745MHz	80
6905MHz	80

Beamforming_Radio 1_Scan

Mode	Power Setting
a20_Nss1,(6Mbps)_1TX	-
5955MHz	46
6195MHz	47
6415MHz	47
6435MHz	46
6475MHz	45
6515MHz	45
6535MHz	44
6695MHz	42
6875MHz	45
6895MHz	45
6995MHz	43
7095MHz	40
7115MHz	23
a40_Nss1,(6Mbps)_1TX	-
5965MHz	59
6205MHz	59
6405MHz	55
6445MHz	52
6485MHz	55
6525MHz	53
6565MHz	53
6685MHz	51
6885MHz	54



6925MHz	51
7005MHz	50
7085MHz	46
a80_Nss1,(6Mbps)_1TX	-
5985MHz	60
6225MHz	69
6385MHz	68
6465MHz	65
6545MHz	67
6625MHz	63
6705MHz	63
6785MHz	65
6865MHz	62
6945MHz	66
7025MHz	63
a160_Nss1,(6Mbps)_1TX	-
6025MHz	54
6185MHz	73
6345MHz	71
6505MHz	68
6665MHz	65
6825MHz	60
6985MHz	49

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/CRX
1	Adapter Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Contention Based Protocol Frequency Stability
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Peak Power Spectral Density (E.I.R.P.) 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/CRX		
1	Adapter Mode		
Operating Mode > 1GHz	CTX/CRX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V (Radio 1_Scan)	V (Radio 3)



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	R1:2.4G+R2:5G Full+R3:6G Full+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+BT(chain0)
2	R1:2.4G+R2:5G High(Band3/4)+R3:5G Low(Band1/2)+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+BT(chain0)
3	R1:2.4G+R2:5G Full+R3:6G Full+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+BT(chain1)
4	R1:2.4G+R2:5G High(Band3/4)+R3:5G Low(Band1/2)+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+BT(chain1)
5	R1:2.4G+R2:5G Full+R3:6G Full+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+BT(chain0)
6	R1:2.4G+R2:5G High(Band3/4)+R3:5G Low(Band1/2)+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+BT(chain0)
Refer to Sporton Test Report No.: FA462705-02 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

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

2.3 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	Powertron	PA1045-120HIB300	-	-

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

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ-45 Cable	Power sync	CAT-6E-10	-	-
2	Notebook	HP	5220M	-	-
3	Adapter	Powertron	PA1045-120HIB300	-	-
4	Client	Extreme	AP4020X	-	Provided by Customer/ Remote

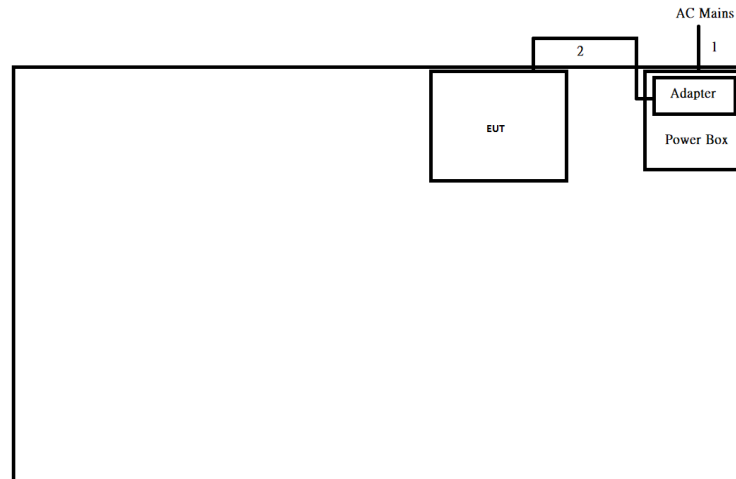


Support Equipment – Contention Based Protocol (For Radio 3)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Client(slave)	HP	EliteBook 820 G3	-	-
2	Notebook	DELL	Latitude E5550	-	-
3	Shielding Box	EMEC	EM-SHB-650550300-M	-	-
4	PoE	PHIHONG	POE60U-1BT-X	-	Provided by Customer

Support Equipment – Contention Based Protocol (For Radio 1_Scan)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	Latitude E5550	-	-
2	Shielding Box	EMEC	EM-SHB-650550300-M	-	-
3	PoE	PHIHONG	POE60U-1BT-X	-	Provided by Customer

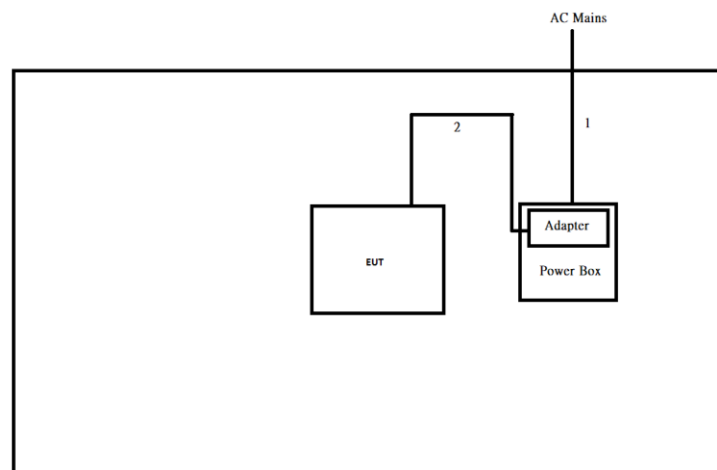
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test

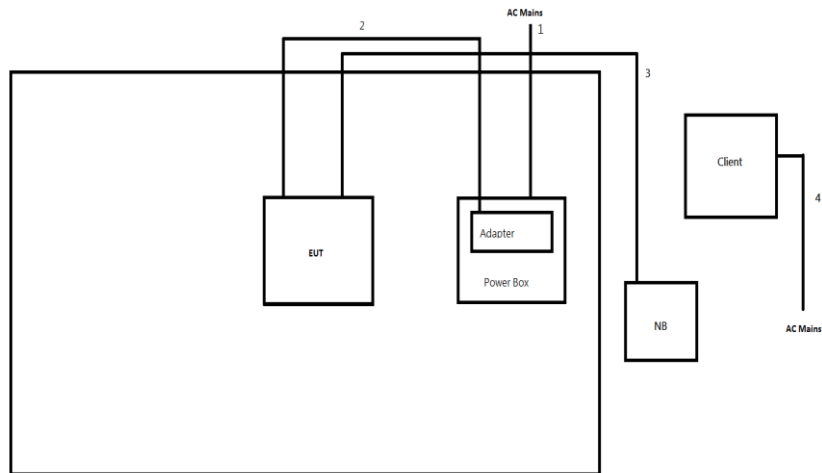


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-

Test Setup Diagram – Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	0.8	-

Test Setup Diagram – Radiated Test (Beamforming)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	0.8	-
3	RJ45 Cable	No	10.0	-
4	DC Power cable	No	1.5	-



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

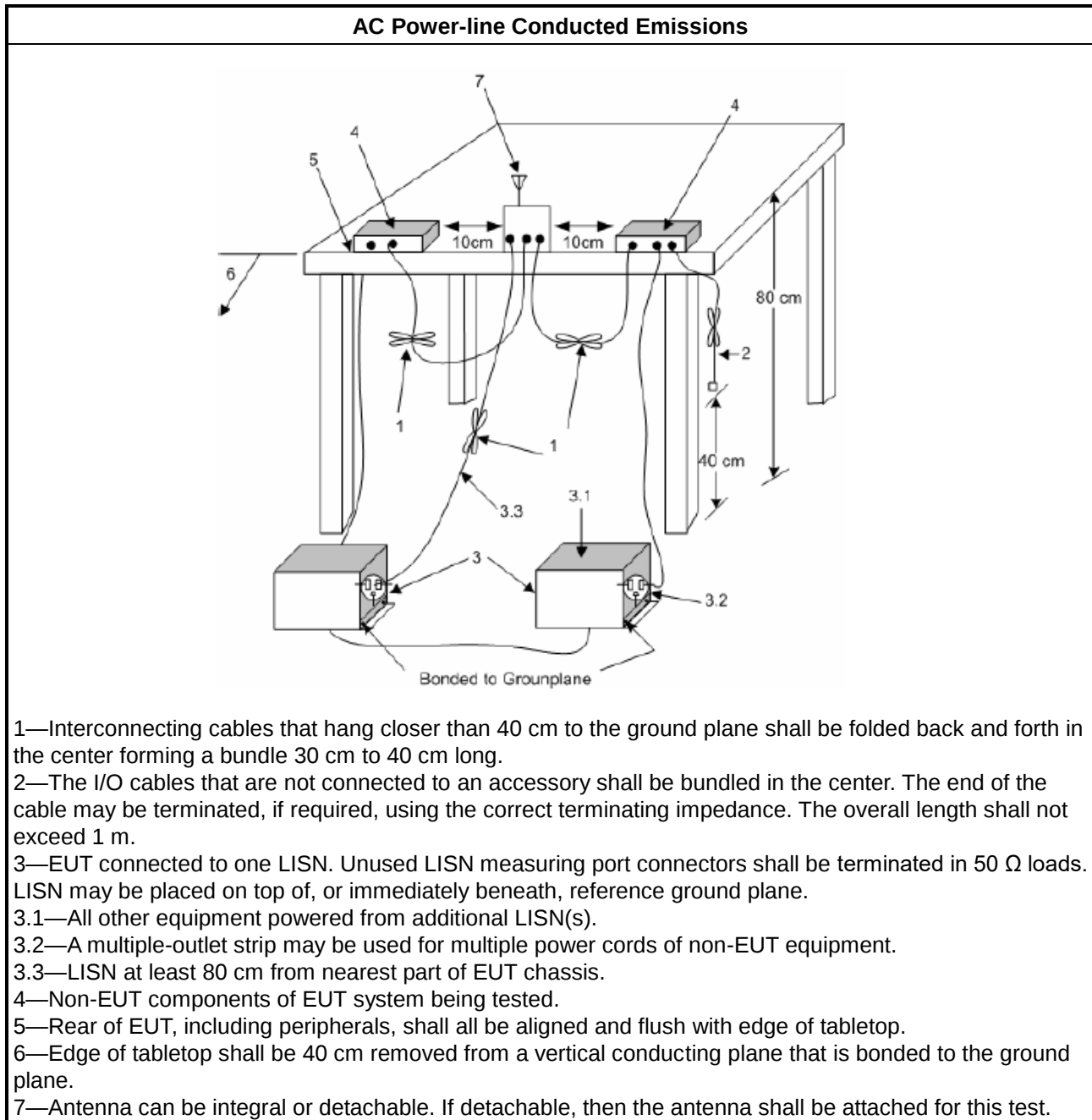
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 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	
☒	For the 5925-6425 GHz band, N/A
☒	For the 6425-6525 GHz band, N/A
☒	For the 6525-6875 GHz band, N/A
☒	For the 6875-7125 GHz band, N/A

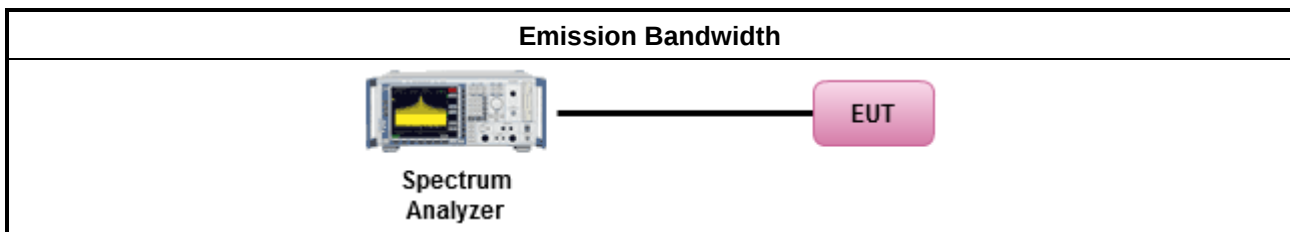
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
☐	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 Equivalent Isotropically Radiated Power (E.I.R.P.)

3.3.1 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit

Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit	
UNII Devices	
☒ For the 5.925 ~ 6.425 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For subordinate device control of an indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of a standard power access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
☒ For the 6.425 ~ 6.525 GHz band:	
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
☒ For the 6.525 ~ 6.875 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For subordinate device control of an indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of a standard power access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
☒ For the 6.875 ~ 7.125 GHz band:	
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.



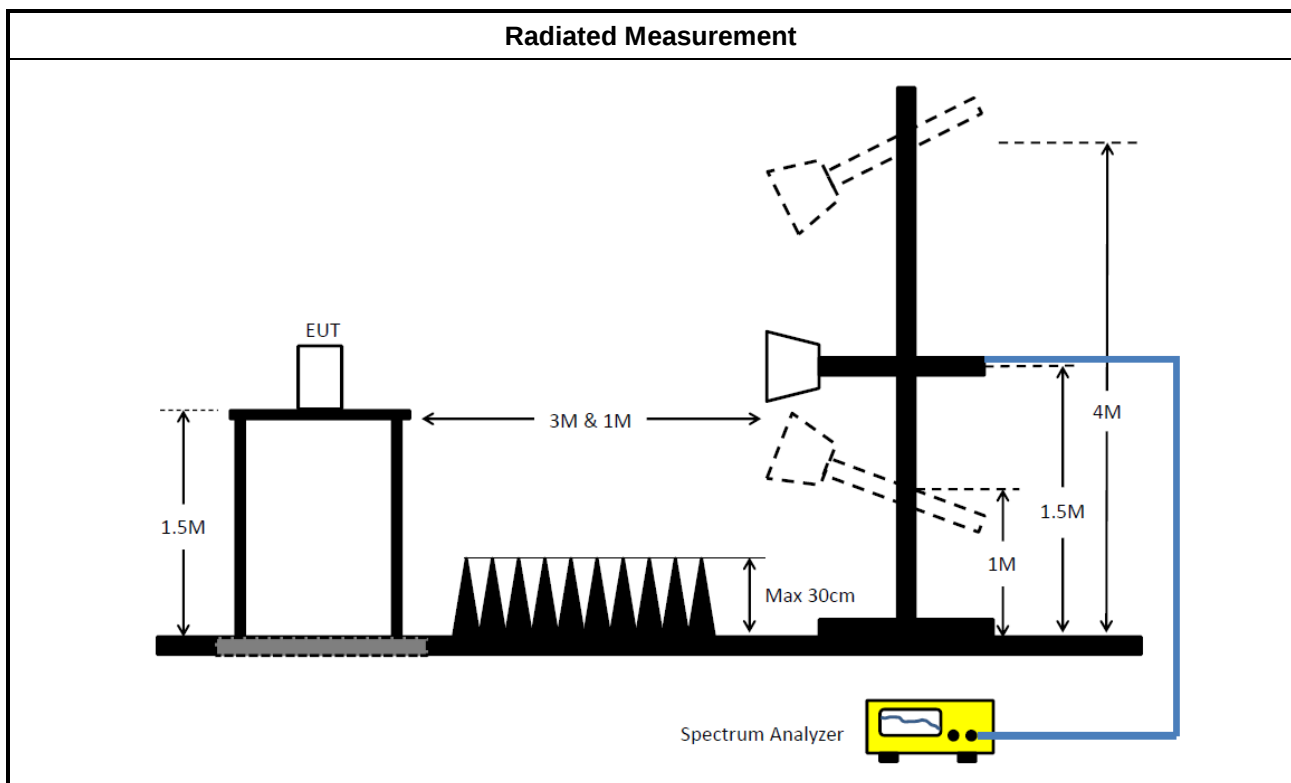
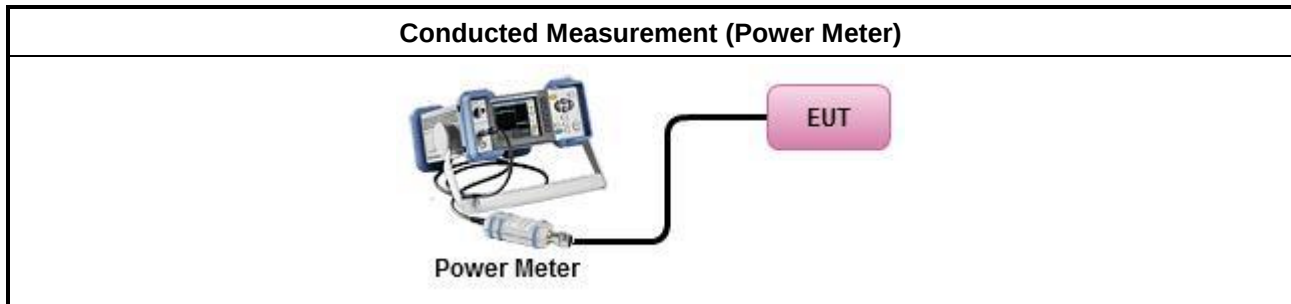
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Output Power Setting	
	Duty cycle $\geq 98\%$
	☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
	☒ Refer as FCC 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
	☒ Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
☒ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
☒ For radiated measurement.	
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	▪ Refer as FCC KDB 789033, clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
	▪ Refer as KDB 412172, clause 2.2 for EIRP calculation.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Equivalent Isotropically Radiated Power (E.I.R.P)

Refer as Appendix C



3.4 Peak Power Spectral Density (E.I.R.P.)

3.4.1 Peak Power Spectral Density (E.I.R.P.) Limit

Peak Power Spectral Density (E.I.R.P.) Limit	
UNII Devices	
☒ For the 5.925 ~ 6.425 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz.
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
☒ For the 6.425 ~ 6.525 GHz band:	
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
☒ For the 6.525 ~ 6.875 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz.
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
☒ For the 6.875 ~ 7.125 GHz band:	
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.

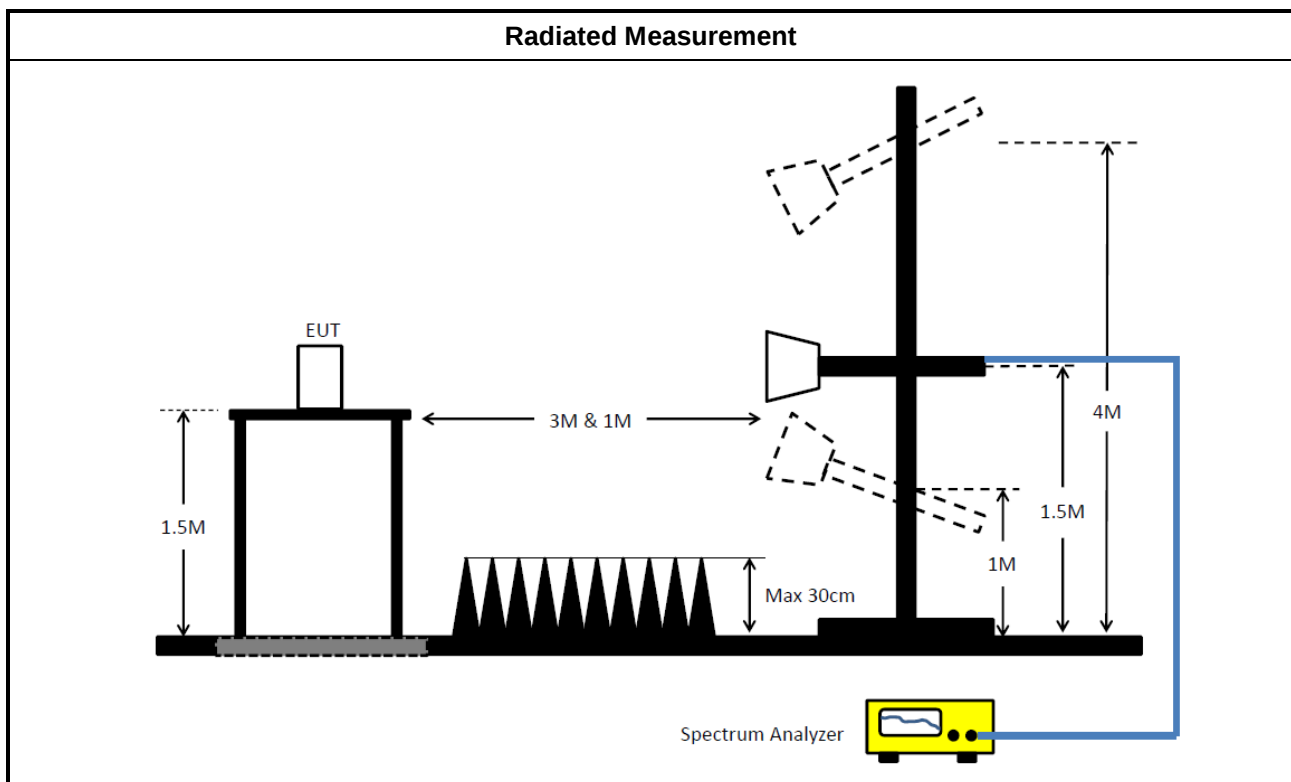
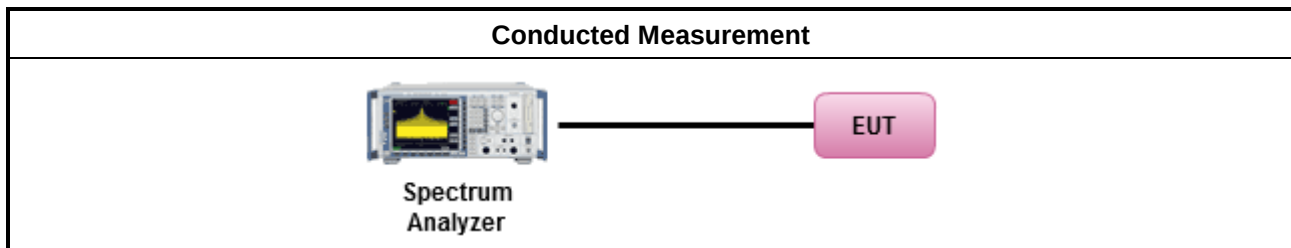
3.4.2 Measuring Instruments

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

**3.4.3 Test Procedures**

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
☒	Refer as FCC KDB 789033, clause E Method SA-2. (spectral trace averaging)
☒	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
☒ For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☒	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☒	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	
☒ For radiated measurement.	
Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	
Refer as KDB 789033, clause II A.1.F "Antenna-port Conducted versus Radiated Testing"	
Refer as KDB 412172, clause 2.2 for EIRP calculation.	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density (E.I.R.P.)

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

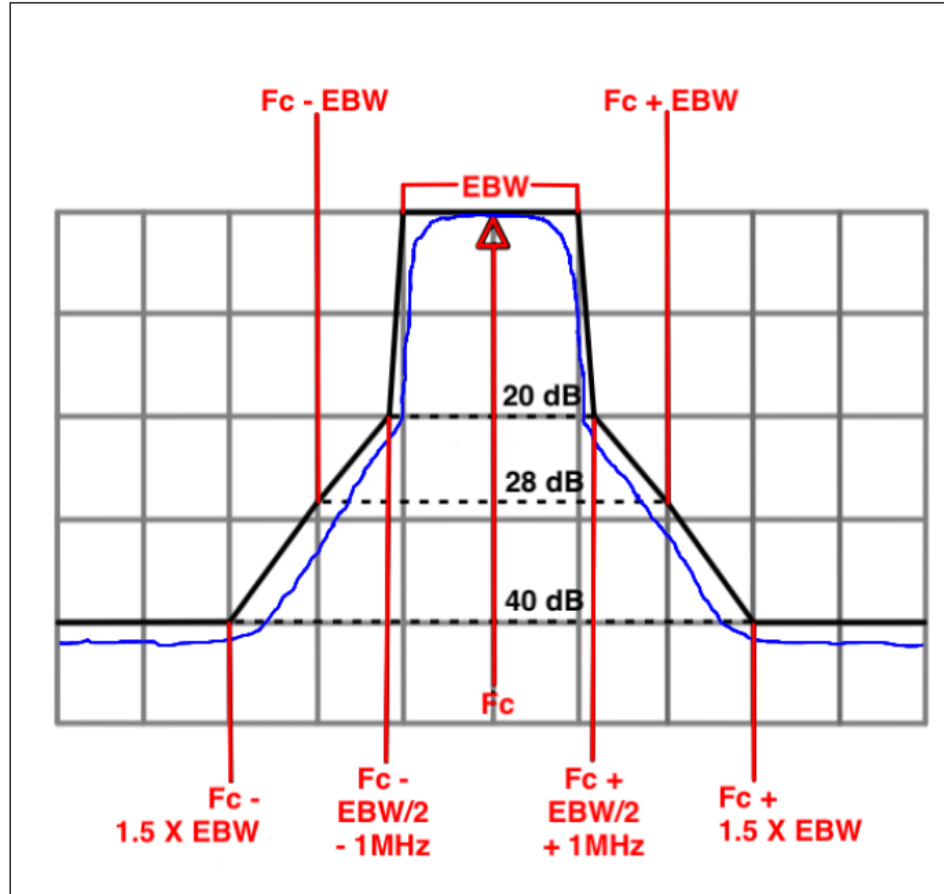
Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance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

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

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$).
EX. Above 18GHz emission limit calculation (3m to 1m) = 54dBuV/m at 3m + 9.54dB = 63.54 dBuV/m at 1m.

Un-restricted band emissions above 1GHz Limit	
Frequency	Limit
Any outside the 5.945 – 7.125 GHz emission	e.i.r.p. -27 dBm [68.2 dBuV/m@3m] Note 1: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$). EX. Above 18GHz emission limit calculation (3m to 1m) = 68.2dBuV/m at 3m + 9.54dB = 77.74 dBuV/m at 1m.
Frequency	Emission MASK Limit
5.945 – 7.125 GHz	Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the

limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB. The channel bandwidth is defined as 26 dB EBW.





3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging). (For unrestricted band measurement)
	☐ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☒ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.(For restricted band average measurement)
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
	☒ Refer as FCC KDB 789033, clause G)3)d)ii) for Band edge Integration measurements.
For emission MASK shall be measured using following options below:	
	☒ Refer as KDB 987594 D02, J) In-Band Emissions
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

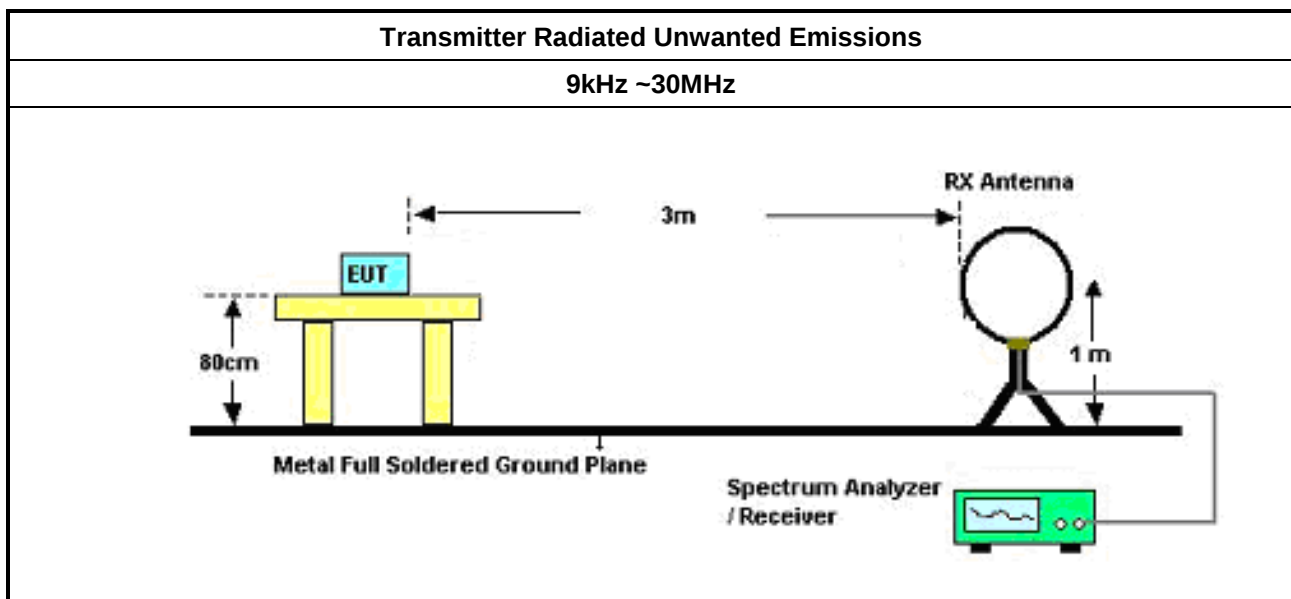
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber 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.

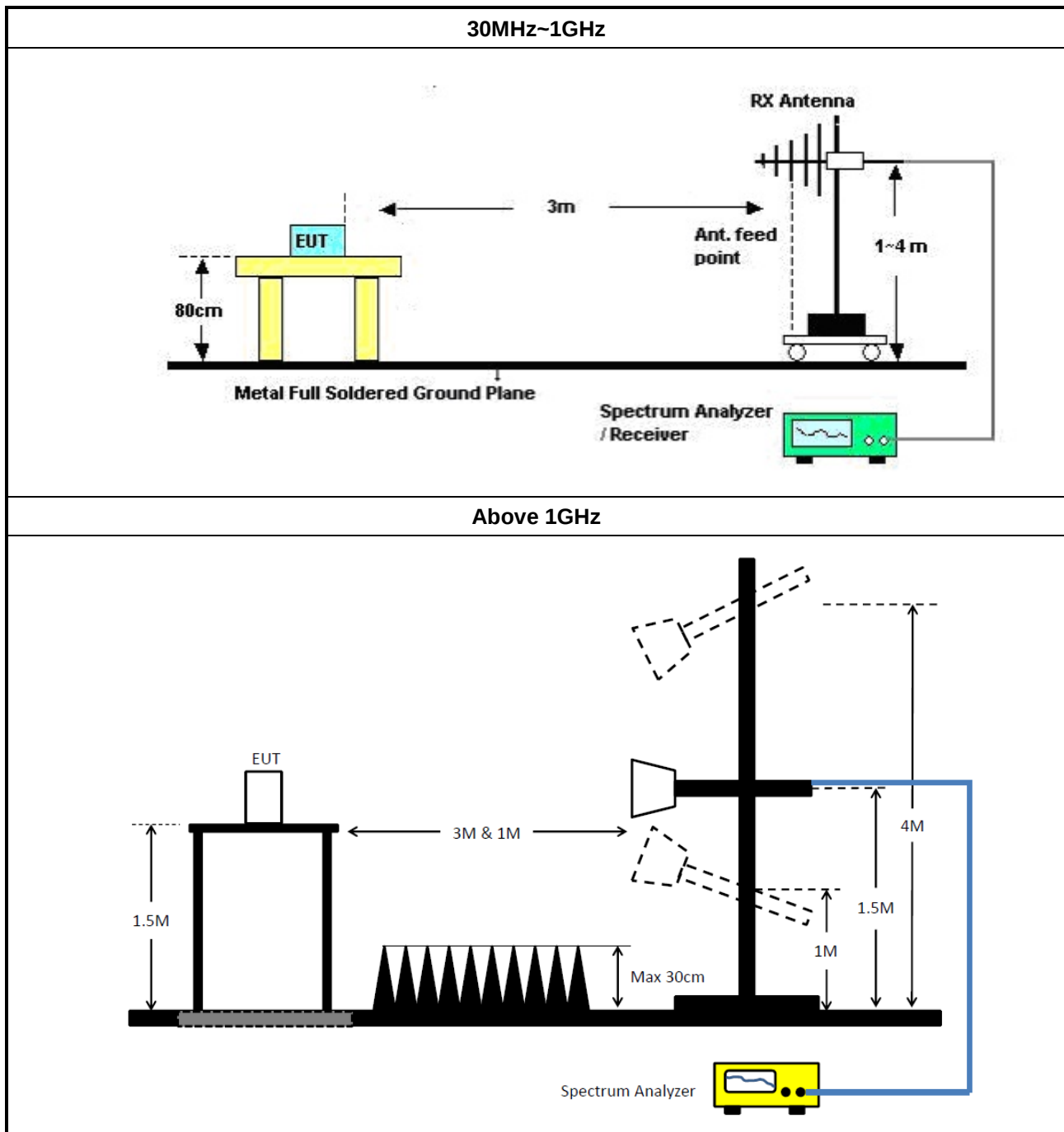
3.5.4 Measurement Results Calculation

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)

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

3.6 Contention Based Protocol

3.6.1 Contention Based Protocol Limit

EUT can detect an AWGN signal with 90% (or better) level of certainty.

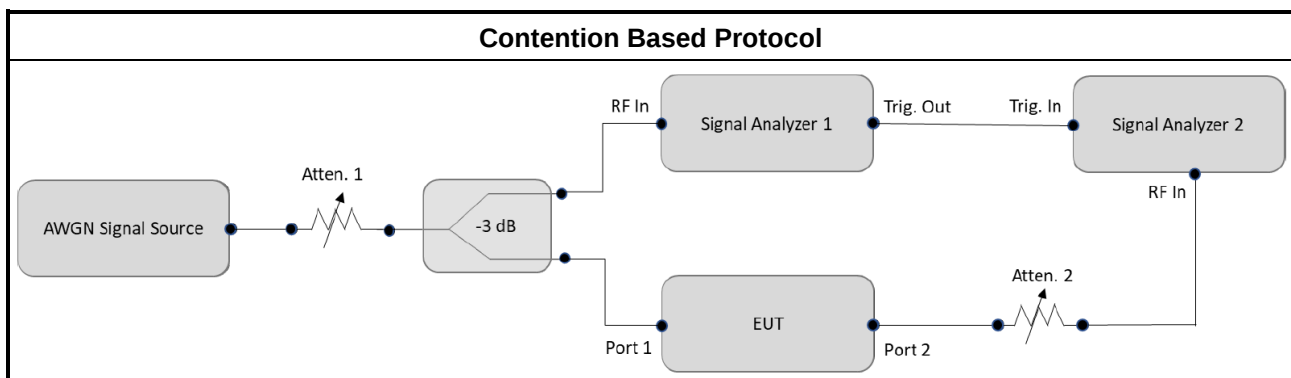
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
■	For Contention Based Protocol shall be measured using following options below:
☒	Refer as KDB 987594 D02, I) Contention Based Protocol.

3.6.4 Test Setup



3.6.5 Test Result of Contention Based Protocol

Refer as Appendix F



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	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	100003	9kHz ~ 30MHz	18/Apr/2025	17/Apr/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.3	-	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	28/Oct/2024	27/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	01/Apr/2024	31/Mar/2025
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	02/Apr/2024	01/Apr/2025
SENSE-15407_NII	Sporton	V5.11.23	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH02-HY) (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	14/Jul/2024	13/Jul/2025
Signal Analyzer	R&S	FSP 40	100593	9kHz~40GHz	11/Mar/2024	10/Mar/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2024	22/Sep/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable -01	1GHz~40GHz	15/Feb/2024	14/Feb/2025
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	01/Oct/2024	30/Sep/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	19/Apr/2024	18/Apr/2025
SENSE-EMI	Sporton	V5.11.9	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (03CH03-HY)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	14/Jul/2024	13/Jul/2025
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	14/Jul/2024	13/Jul/2025
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	03/May/2024	02/May/2025
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	01/Nov/2024	31/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMC	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	14/Oct/2024	13/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	18/Oct/2024	17/Oct/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	04/Jun/2024	03/Jun/2025
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	12/Jun/2024	11/Jun/2025
RF Cable-R03m	Jye Bao	RG142	03CH03-cable -02	30MHz~1GHz	12/Jun/2024	11/Jun/2025
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable -03	1GHz~40GHz	20/Feb/2024	19/Feb/2025
Amplifier	Aglient	8447D	2944A08033	100kHz~1.3GHz	13/Sep/2024	12/Sep/2025
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	25/Jul/2024	24/Jul/2025
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	19/Apr/2024	18/Apr/2025
SENSE-15407_NII	Sporton	V5.11.23	NA	NA	NA	NA

Instrument for Contention-Based Protocol Test (For Radio 3)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP40	100305	9 kHz ~ 40 GHz	21/Mar/2024	20/Mar/2025
Vector Signal Generator	R&S	SMW200A	111529	100kHz~7.5GHz	12/Mar/2024	11/Mar/2025
DFS-Adaptivity	Sporton	Ver 2.10	N/A	N/A	N/A	N/A
Adaptivity Analysis-5G	Sporton	Ver 2.10	N/A	N/A	N/A	N/A

Instrument for Contention-Based Protocol Test (For Radio 1_Scan)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	Keysight	N9010A	MY55150165	9kHz~7GHz	14/Dec/2023	13/Dec/2024
Vector Signal Generator	R&S	SMW200A	111529	100kHz~7.5GHz	12/Mar/2024	11/Mar/2025
DFS-Adaptivity	Sporton	Ver 2.10	N/A	N/A	N/A	N/A
Adaptivity Analysis-5G	Sporton	Ver 2.10	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline_Radio 3

Appendix A.1

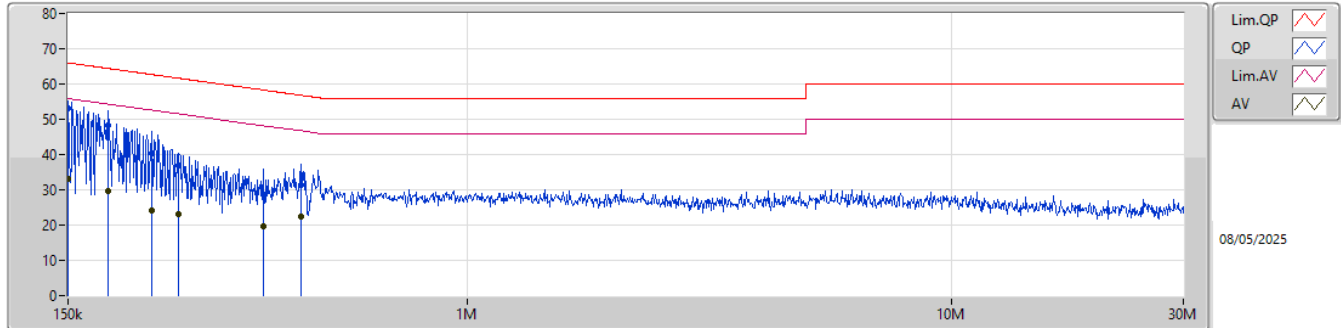
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	53.16	66.00	-12.84	Neutral

Result

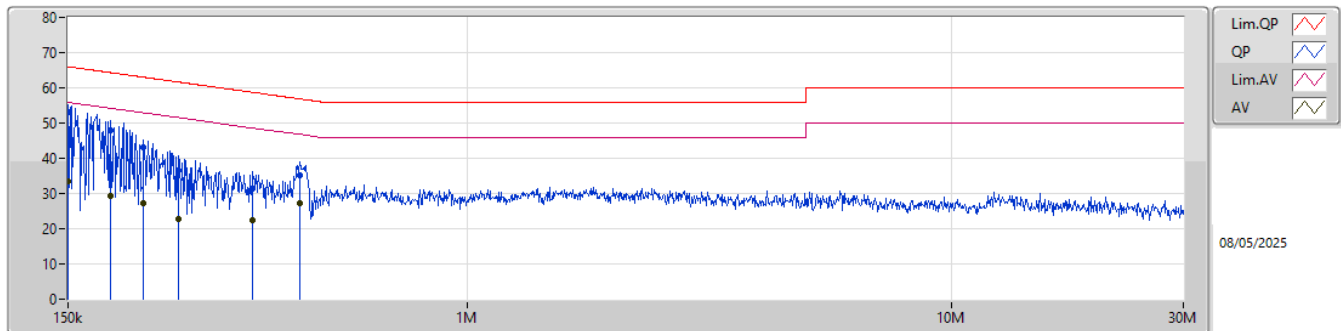
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	53.13	66.00	-12.87	Line
Mode 1	Pass	AV	150k	33.23	56.00	-22.77	Line
Mode 1	Pass	QP	180.96k	48.24	64.43	-16.19	Line
Mode 1	Pass	AV	180.96k	29.51	54.43	-24.92	Line
Mode 1	Pass	QP	223.6k	40.47	62.69	-22.22	Line
Mode 1	Pass	AV	223.6k	24.24	52.69	-28.45	Line
Mode 1	Pass	QP	254.06k	36.99	61.62	-24.63	Line
Mode 1	Pass	AV	254.06k	23.08	51.62	-28.54	Line
Mode 1	Pass	QP	378.72k	28.53	58.31	-29.78	Line
Mode 1	Pass	AV	378.72k	19.53	48.31	-28.78	Line
Mode 1	Pass	QP	453.24k	31.24	56.82	-25.58	Line
Mode 1	Pass	AV	453.24k	22.26	46.82	-24.56	Line
Mode 1	Pass	QP	150k	53.16	66.00	-12.84	Neutral
Mode 1	Pass	AV	150k	33.42	56.00	-22.58	Neutral
Mode 1	Pass	QP	183.14k	48.03	64.34	-16.31	Neutral
Mode 1	Pass	AV	183.14k	29.30	54.34	-25.04	Neutral
Mode 1	Pass	QP	214.85k	43.17	63.02	-19.85	Neutral
Mode 1	Pass	AV	214.85k	27.15	53.02	-25.87	Neutral
Mode 1	Pass	QP	253.05k	36.47	61.66	-25.19	Neutral
Mode 1	Pass	AV	253.05k	22.67	51.66	-28.99	Neutral
Mode 1	Pass	QP	361k	31.21	58.70	-27.49	Neutral
Mode 1	Pass	AV	361k	22.25	48.70	-26.45	Neutral
Mode 1	Pass	QP	451.44k	35.29	56.84	-21.55	Neutral
Mode 1	Pass	AV	451.44k	27.33	46.84	-19.51	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	150k	53.13	66.00	-12.87	19.61	Line	-	33.52	9.63	0.01	9.97						
AV	150k	33.23	56.00	-22.77	19.61	Line	-	13.62	9.63	0.01	9.97						
QP	180.96k	48.24	64.43	-16.19	19.61	Line	-	28.63	9.63	0.01	9.97						
AV	180.96k	29.51	54.43	-24.92	19.61	Line	-	9.90	9.63	0.01	9.97						
QP	223.6k	40.47	62.69	-22.22	19.61	Line	-	20.86	9.63	0.01	9.97						
AV	223.6k	24.24	52.69	-28.45	19.61	Line	-	4.63	9.63	0.01	9.97						
QP	254.06k	36.99	61.62	-24.63	19.62	Line	-	17.37	9.63	0.02	9.97						
AV	254.06k	23.08	51.62	-28.54	19.62	Line	-	3.46	9.63	0.02	9.97						
QP	378.72k	28.53	58.31	-29.78	19.64	Line	-	8.89	9.63	0.03	9.98						
AV	378.72k	19.53	48.31	-28.78	19.64	Line	-	-0.11	9.63	0.03	9.98						
QP	453.24k	31.24	56.82	-25.58	19.64	Line	-	11.60	9.63	0.03	9.98						
AV	453.24k	22.26	46.82	-24.56	19.64	Line	-	2.62	9.63	0.03	9.98						

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	150k	53.16	66.00	-12.84	19.71	Neutral	-	33.45	9.73	0.01	9.97						
AV	150k	33.42	56.00	-22.58	19.71	Neutral	-	13.71	9.73	0.01	9.97						
QP	183.14k	48.03	64.34	-16.31	19.70	Neutral	-	28.33	9.72	0.01	9.97						
AV	183.14k	29.30	54.34	-25.04	19.70	Neutral	-	9.60	9.72	0.01	9.97						
QP	214.85k	43.17	63.02	-19.85	19.70	Neutral	-	23.47	9.72	0.01	9.97						
AV	214.85k	27.15	53.02	-25.87	19.70	Neutral	-	7.45	9.72	0.01	9.97						
QP	253.05k	36.47	61.66	-25.19	19.71	Neutral	-	16.76	9.72	0.02	9.97						
AV	253.05k	22.67	51.66	-28.99	19.71	Neutral	-	2.96	9.72	0.02	9.97						
QP	361k	31.21	58.70	-27.49	19.72	Neutral	-	11.49	9.71	0.03	9.98						
AV	361k	22.25	48.70	-26.45	19.72	Neutral	-	2.53	9.71	0.03	9.98						
QP	451.44k	35.29	56.84	-21.55	19.72	Neutral	-	15.57	9.71	0.03	9.98						
AV	451.44k	27.33	46.84	-19.51	19.72	Neutral	-	7.61	9.71	0.03	9.98						



Conducted Emissions at Powerline_Radio 1_Scan

Appendix A.2

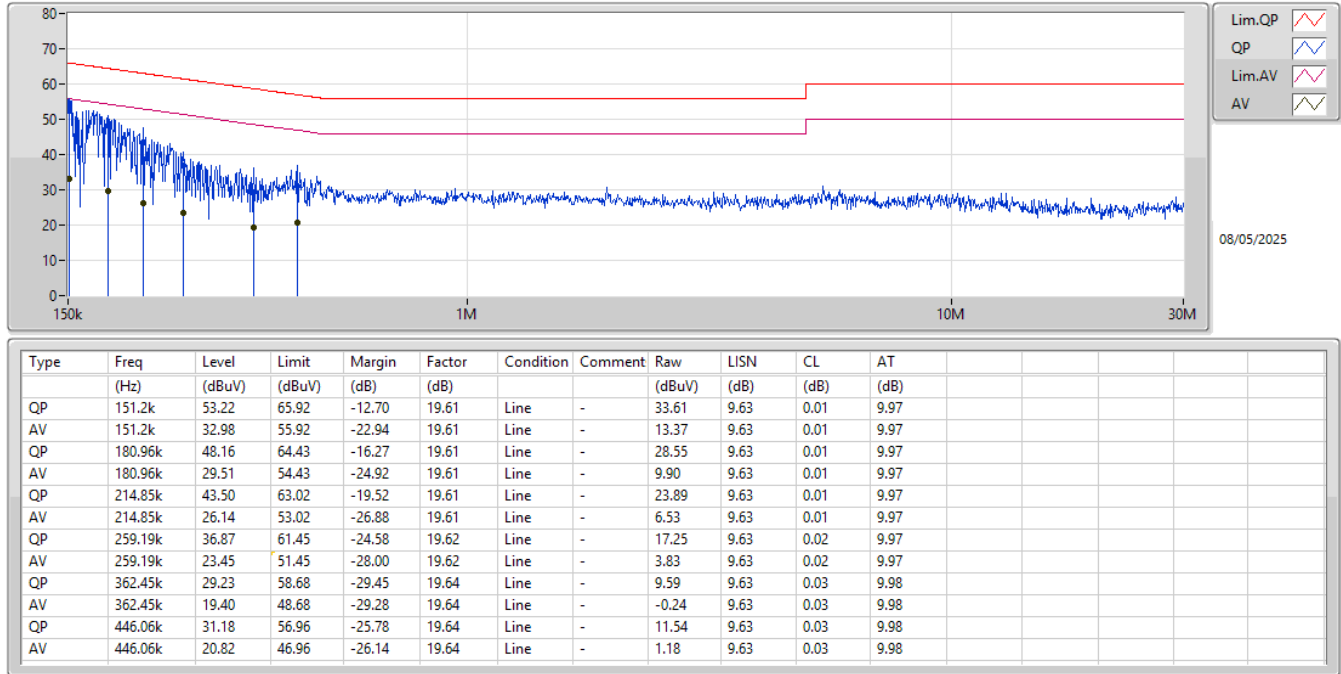
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	152.41k	53.32	65.87	-12.55	Neutral

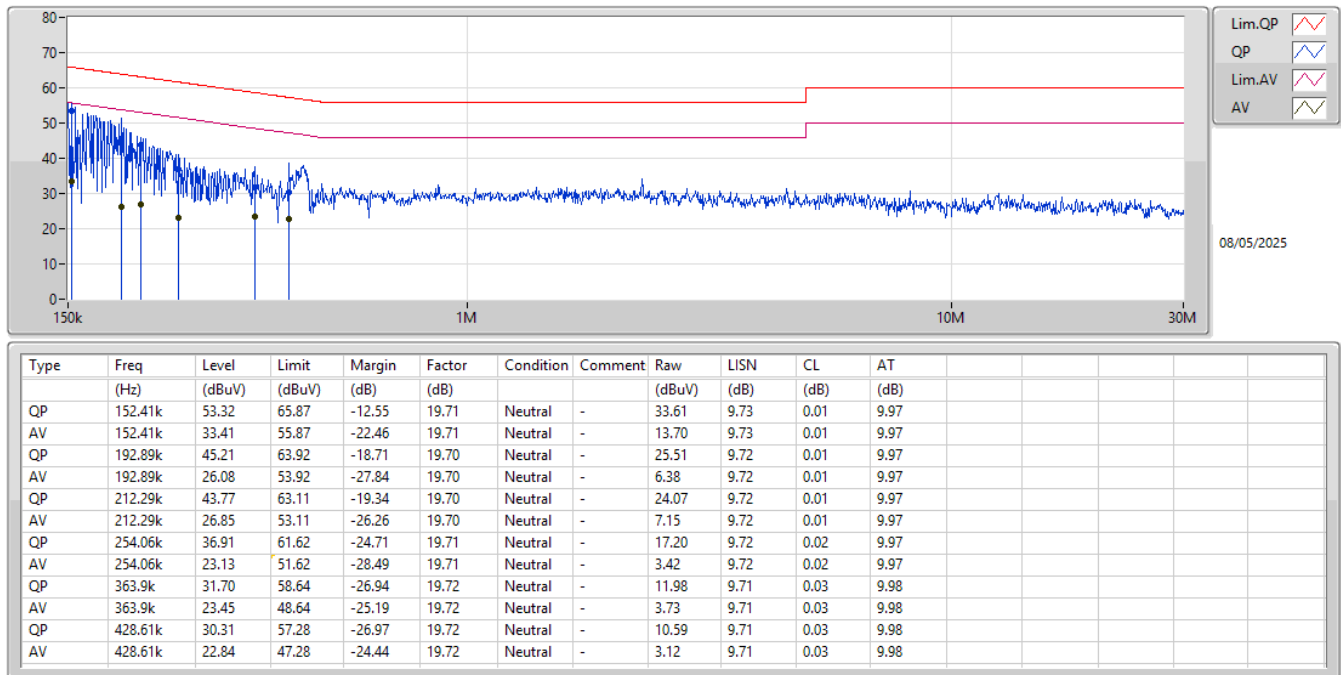
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	151.2k	53.22	65.92	-12.70	Line
Mode 1	Pass	AV	151.2k	32.98	55.92	-22.94	Line
Mode 1	Pass	QP	180.96k	48.16	64.43	-16.27	Line
Mode 1	Pass	AV	180.96k	29.51	54.43	-24.92	Line
Mode 1	Pass	QP	214.85k	43.50	63.02	-19.52	Line
Mode 1	Pass	AV	214.85k	26.14	53.02	-26.88	Line
Mode 1	Pass	QP	259.19k	36.87	61.45	-24.58	Line
Mode 1	Pass	AV	259.19k	23.45	51.45	-28.00	Line
Mode 1	Pass	QP	362.45k	29.23	58.68	-29.45	Line
Mode 1	Pass	AV	362.45k	19.40	48.68	-29.28	Line
Mode 1	Pass	QP	446.06k	31.18	56.96	-25.78	Line
Mode 1	Pass	AV	446.06k	20.82	46.96	-26.14	Line
Mode 1	Pass	QP	152.41k	53.32	65.87	-12.55	Neutral
Mode 1	Pass	AV	152.41k	33.41	55.87	-22.46	Neutral
Mode 1	Pass	QP	192.89k	45.21	63.92	-18.71	Neutral
Mode 1	Pass	AV	192.89k	26.08	53.92	-27.84	Neutral
Mode 1	Pass	QP	212.29k	43.77	63.11	-19.34	Neutral
Mode 1	Pass	AV	212.29k	26.85	53.11	-26.26	Neutral
Mode 1	Pass	QP	254.06k	36.91	61.62	-24.71	Neutral
Mode 1	Pass	AV	254.06k	23.13	51.62	-28.49	Neutral
Mode 1	Pass	QP	363.9k	31.70	58.64	-26.94	Neutral
Mode 1	Pass	AV	363.9k	23.45	48.64	-25.19	Neutral
Mode 1	Pass	QP	428.61k	30.31	57.28	-26.97	Neutral
Mode 1	Pass	AV	428.61k	22.84	47.28	-24.44	Neutral

Conducted Emissions at Powerline_Mode 1



Conducted Emissions at Powerline_Mode 1



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.065M	16.734M	16M7D1D	20.845M	16.668M
802.11be EHT20_Nss1,(MCS0)_1TX	21.67M	19.04M	19M0D1D	20.79M	18.991M
802.11be EHT40_Nss1,(MCS0)_1TX	39.82M	37.681M	37M7D1D	39.16M	37.631M
802.11be EHT80_Nss1,(MCS0)_1TX	81.84M	77.261M	77M3D1D	81.18M	77.061M
802.11be EHT160_Nss1,(MCS0)_1TX	163.68M	156.522M	157MD1D	162.36M	155.922M
802.11be EHT320_Nss1,(MCS0)_1TX	325.6M	315.842M	316MD1D	324.72M	314.643M
6.425-6.525GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.34M	16.712M	16M7D1D	20.845M	16.69M
802.11be EHT20_Nss1,(MCS0)_1TX	21.34M	19.04M	19M0D1D	21.01M	19.015M
802.11be EHT40_Nss1,(MCS0)_1TX	40.26M	37.781M	37M8D1D	39.6M	37.631M
802.11be EHT80_Nss1,(MCS0)_1TX	81.18M	77.261M	77M3D1D	80.74M	77.161M
802.11be EHT160_Nss1,(MCS0)_1TX	163.68M	156.522M	157MD1D	163.68M	156.522M
802.11be EHT320_Nss1,(MCS0)_1TX	403.92M	316.642M	317MD1D	326.48M	315.842M
6.525-6.875GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.23M	16.756M	16M8D1D	21.065M	16.668M
802.11be EHT20_Nss1,(MCS0)_1TX	21.505M	19.09M	19M1D1D	21.01M	18.991M
802.11be EHT40_Nss1,(MCS0)_1TX	40.59M	37.781M	37M8D1D	40.04M	37.731M
802.11be EHT80_Nss1,(MCS0)_1TX	111.76M	77.561M	77M6D1D	81.18M	77.261M
802.11be EHT160_Nss1,(MCS0)_1TX	210.76M	156.722M	157MD1D	175.56M	156.522M
802.11be EHT320_Nss1,(MCS0)_1TX	459.36M	316.242M	316MD1D	403.92M	315.442M
6.875-7.125GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.34M	16.734M	16M7D1D	21.01M	16.69M
802.11be EHT20_Nss1,(MCS0)_1TX	21.67M	19.04M	19M0D1D	21.12M	19.015M
802.11be EHT40_Nss1,(MCS0)_1TX	40.81M	37.781M	37M8D1D	40.59M	37.681M
802.11be EHT80_Nss1,(MCS0)_1TX	96.8M	77.661M	77M7D1D	84.7M	77.261M
802.11be EHT160_Nss1,(MCS0)_1TX	212.96M	156.322M	156MD1D	212.96M	156.322M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5955MHz	Pass	Inf	20.955M	16.668M
6195MHz	Pass	Inf	21.065M	16.734M
6415MHz	Pass	Inf	20.845M	16.668M
6435MHz	Pass	Inf	21.34M	16.712M
6475MHz	Pass	Inf	20.845M	16.69M
6515MHz	Pass	Inf	21.34M	16.712M
6535MHz	Pass	Inf	21.23M	16.69M
6695MHz	Pass	Inf	21.12M	16.668M
6875MHz	Pass	Inf	21.065M	16.756M
6895MHz	Pass	Inf	21.01M	16.69M
6995MHz	Pass	Inf	21.065M	16.69M
7095MHz	Pass	Inf	21.12M	16.734M
7115MHz	Pass	Inf	21.34M	16.69M
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-
5955MHz	Pass	Inf	21.065M	19.04M
6195MHz	Pass	Inf	20.79M	19.04M
6415MHz	Pass	Inf	21.67M	18.991M
6435MHz	Pass	Inf	21.34M	19.015M
6475MHz	Pass	Inf	21.01M	19.015M
6515MHz	Pass	Inf	21.065M	19.04M
6535MHz	Pass	Inf	21.505M	18.991M
6695MHz	Pass	Inf	21.01M	19.015M
6875MHz	Pass	Inf	21.45M	19.09M
6895MHz	Pass	Inf	21.12M	19.04M
6995MHz	Pass	Inf	21.67M	19.015M
7095MHz	Pass	Inf	21.67M	19.015M
7115MHz	Pass	Inf	21.175M	19.04M
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-
5965MHz	Pass	Inf	39.82M	37.631M
6205MHz	Pass	Inf	39.16M	37.681M
6405MHz	Pass	Inf	39.49M	37.681M
6445MHz	Pass	Inf	40.26M	37.781M
6485MHz	Pass	Inf	39.82M	37.631M
6525MHz	Pass	Inf	39.6M	37.731M
6565MHz	Pass	Inf	40.26M	37.781M
6685MHz	Pass	Inf	40.59M	37.731M
6885MHz	Pass	Inf	40.04M	37.781M
6925MHz	Pass	Inf	40.81M	37.781M
7005MHz	Pass	Inf	40.7M	37.731M
7085MHz	Pass	Inf	40.59M	37.681M
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-	-
5985MHz	Pass	Inf	81.18M	77.061M
6225MHz	Pass	Inf	81.4M	77.161M
6385MHz	Pass	Inf	81.84M	77.261M
6465MHz	Pass	Inf	81.18M	77.161M
6545MHz	Pass	Inf	80.74M	77.261M
6625MHz	Pass	Inf	81.18M	77.461M
6705MHz	Pass	Inf	111.76M	77.561M
6785MHz	Pass	Inf	81.62M	77.261M
6865MHz	Pass	Inf	95.7M	77.561M
6945MHz	Pass	Inf	84.7M	77.661M
7025MHz	Pass	Inf	96.8M	77.261M
802.11be EHT160_Nss1,(MCS0)_1TX	-	-	-	-
6025MHz	Pass	Inf	162.36M	155.922M



EBW_Non-Beamforming_Radio 3_1T1S

Appendix B.1

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
6185MHz	Pass	Inf	163.68M	156.522M
6345MHz	Pass	Inf	163.24M	156.522M
6505MHz	Pass	Inf	163.68M	156.522M
6665MHz	Pass	Inf	210.76M	156.722M
6825MHz	Pass	Inf	175.56M	156.522M
6985MHz	Pass	Inf	212.96M	156.322M
802.11be EHT320_Nss1,(MCS0)_1TX	-	-	-	-
6105MHz	Pass	Inf	324.72M	315.842M
6265MHz	Pass	Inf	325.6M	314.643M
6425MHz	Pass	Inf	326.48M	315.842M
6585MHz	Pass	Inf	403.92M	316.642M
6745MHz	Pass	Inf	459.36M	316.242M
6905MHz	Pass	Inf	403.92M	315.442M

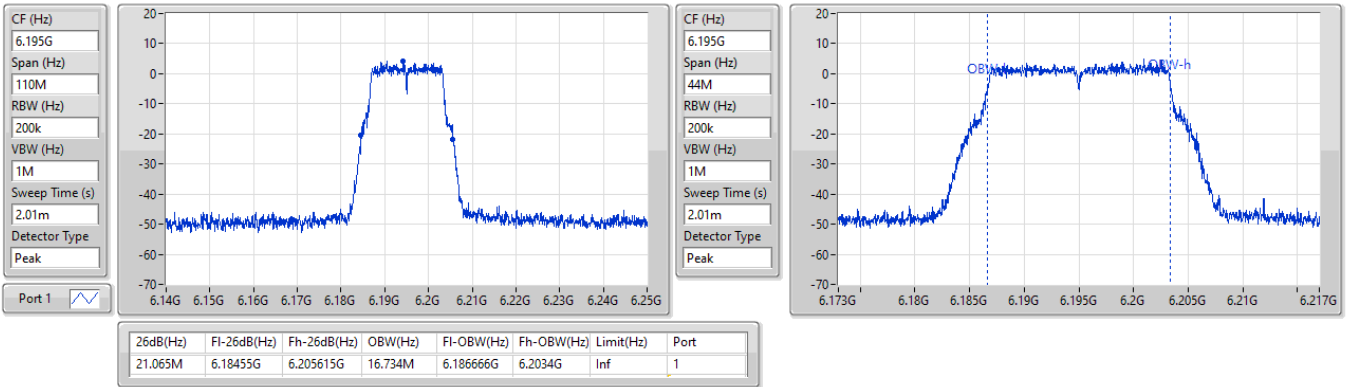
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

6195MHz

24/02/2025

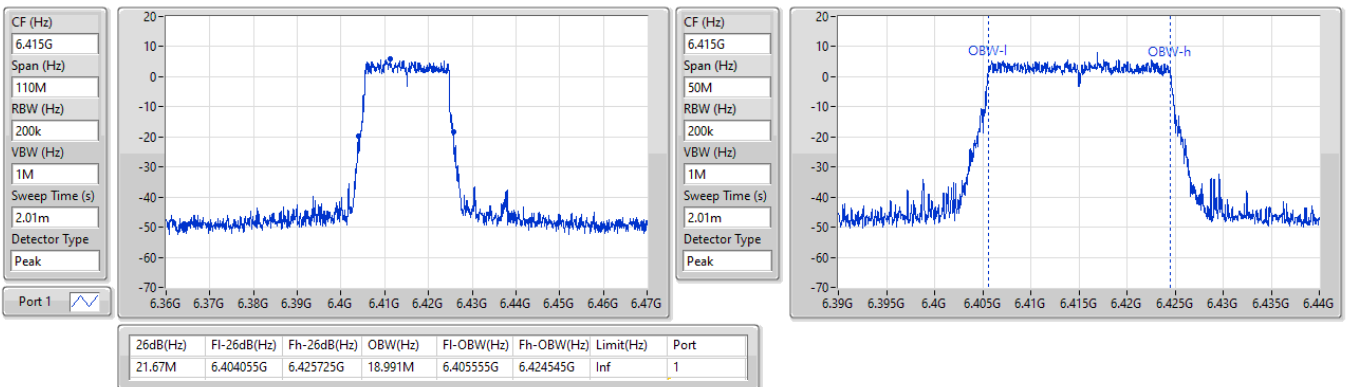


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6415MHz

24/02/2025

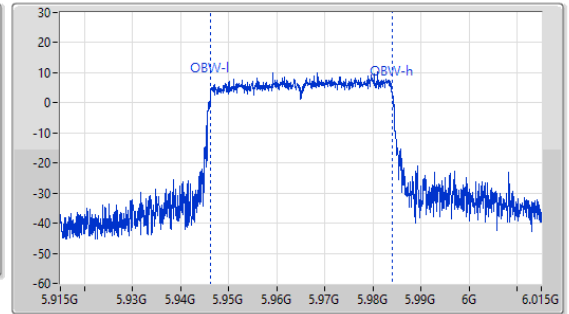
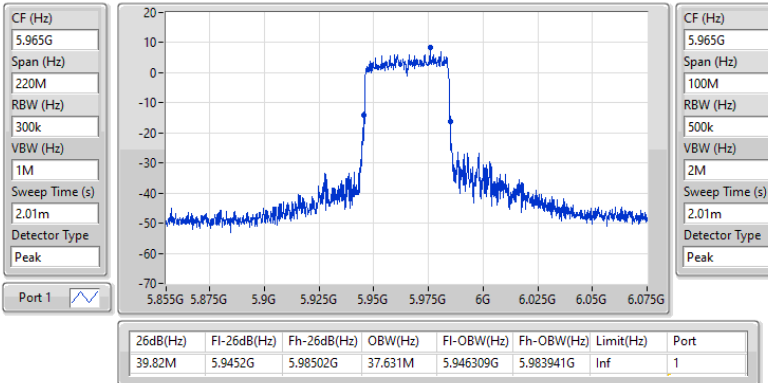


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

5965MHz

24/02/2025

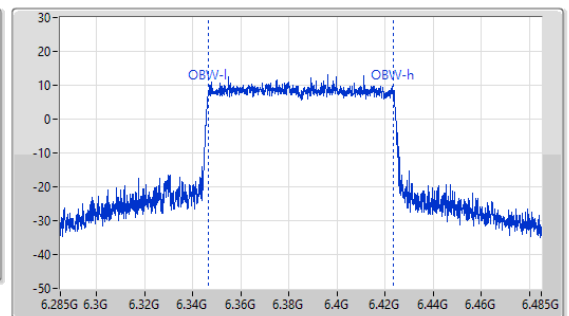
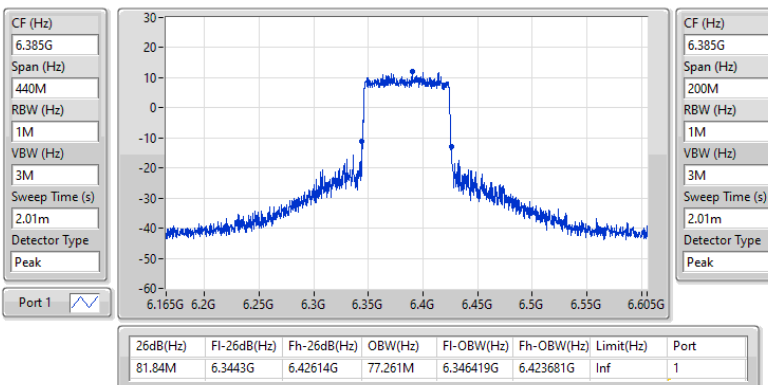


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6385MHz

24/02/2025

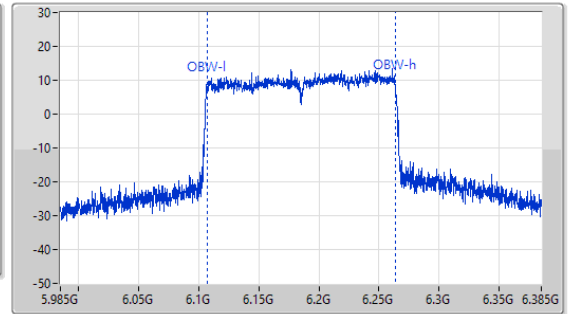
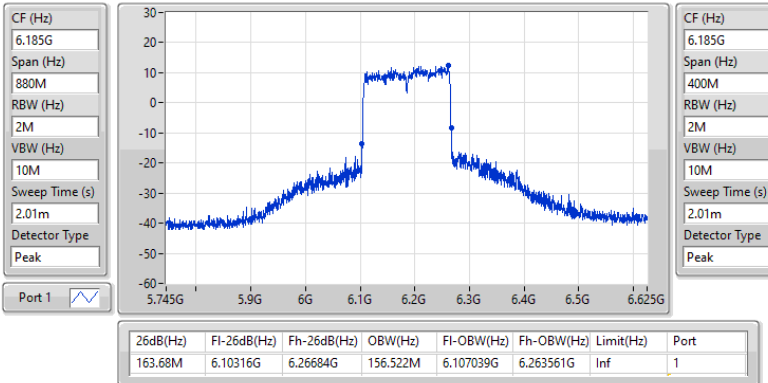


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6185MHz

24/02/2025

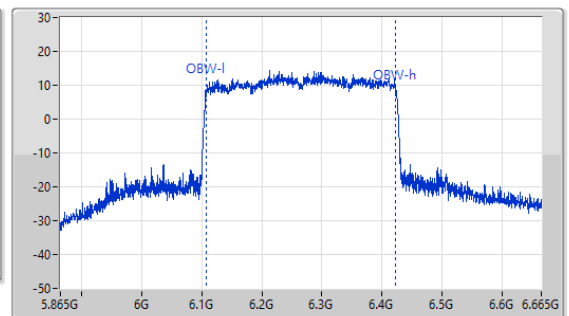
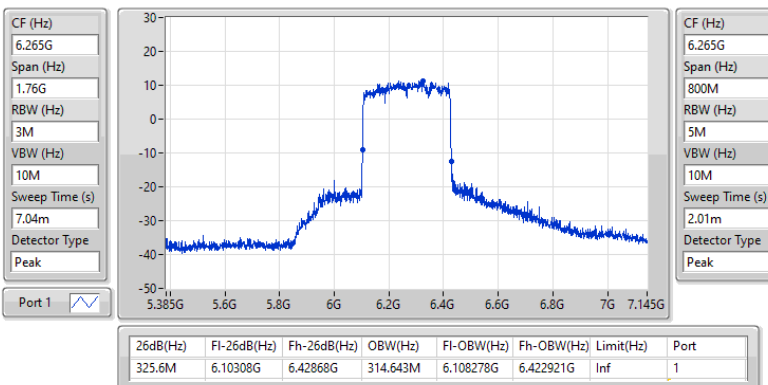


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_1TX

EBW

6265MHz

24/02/2025

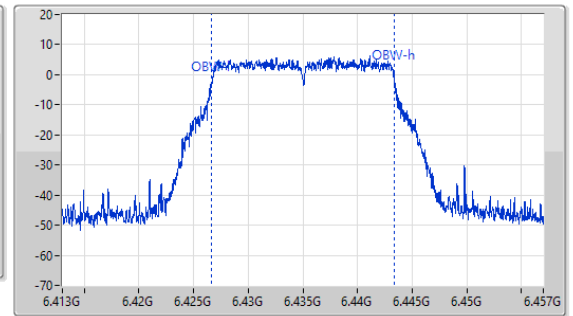
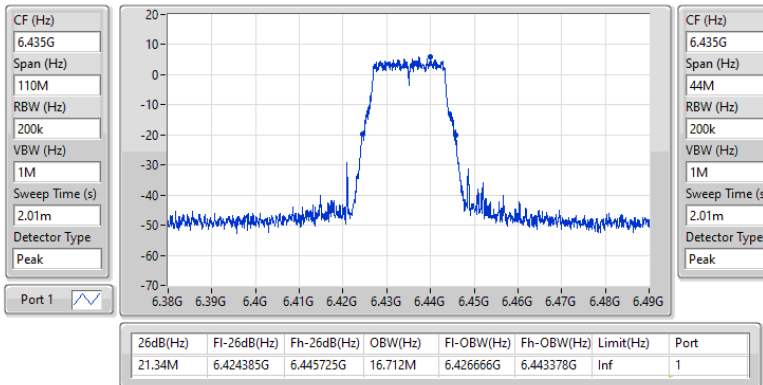


6.425-6.525GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

6435MHz

24/02/2025

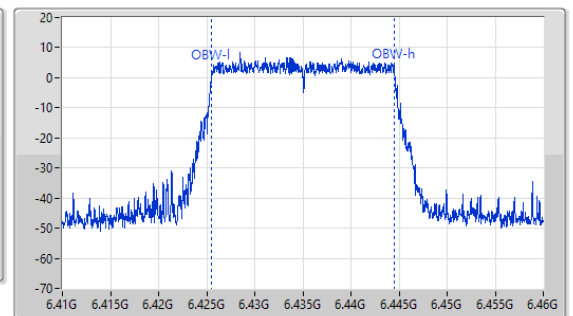
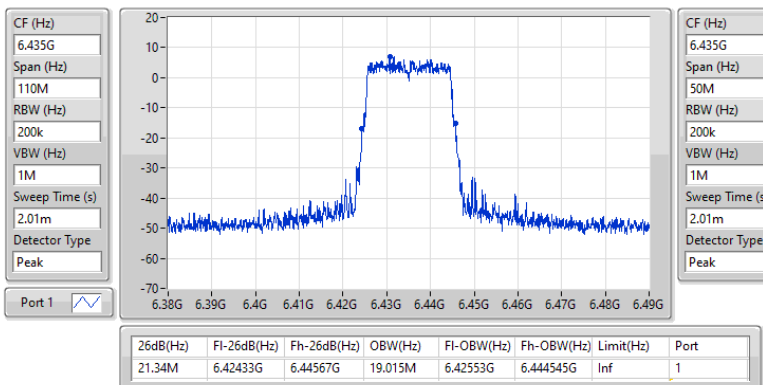


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6435MHz

24/02/2025

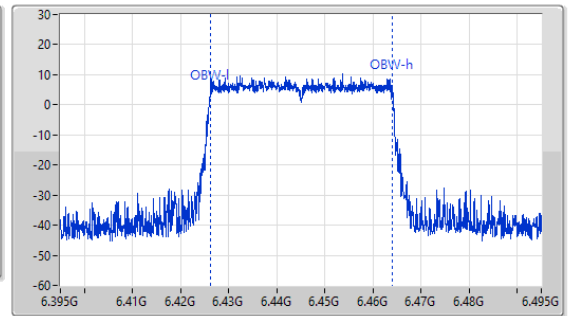
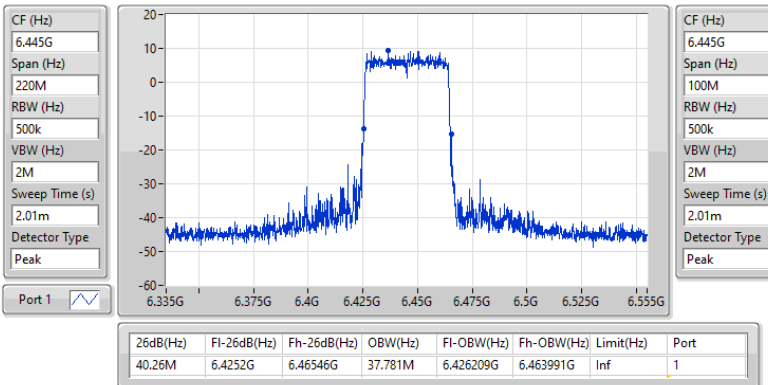


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6445MHz

24/02/2025

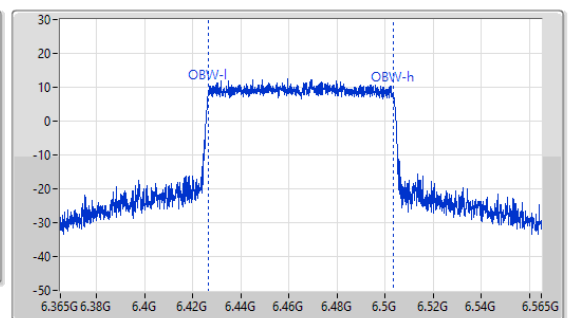
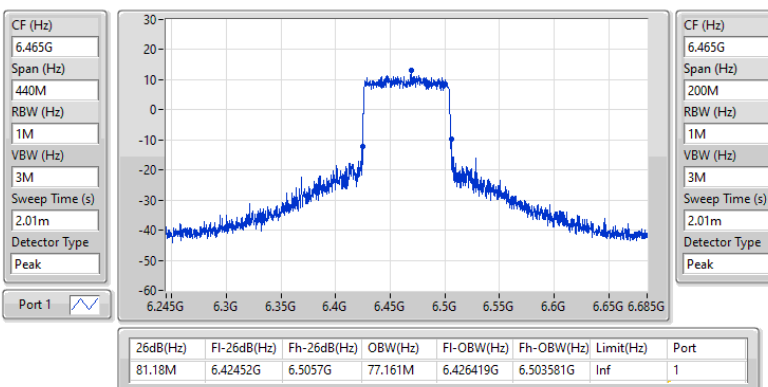


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6465MHz

24/02/2025

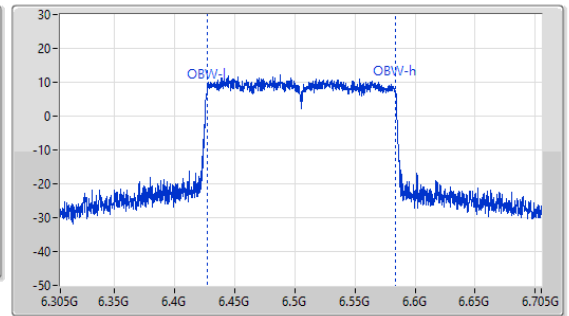
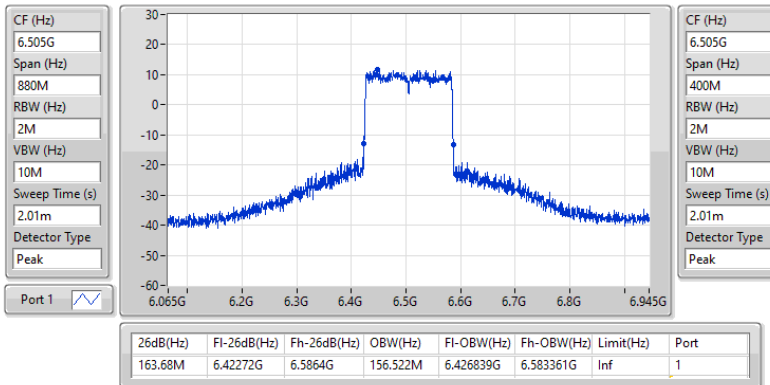


6.425-6.525GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6505MHz

24/02/2025

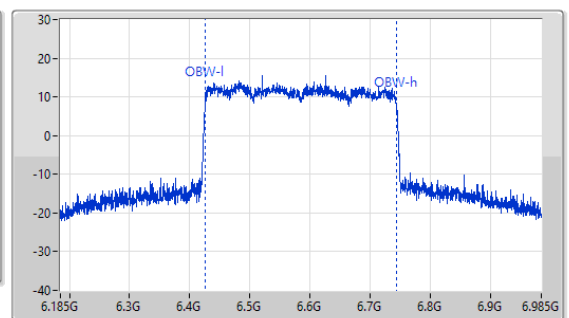
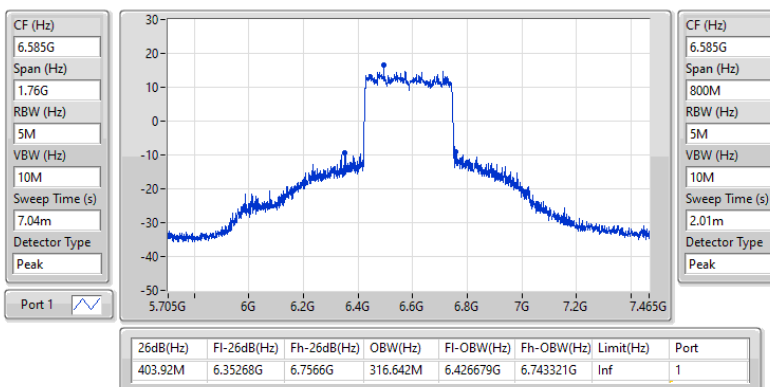


6.425-6.525GHz_802.11be EHT320_Nss1,(MCS0)_1TX

EBW

6585MHz

24/02/2025

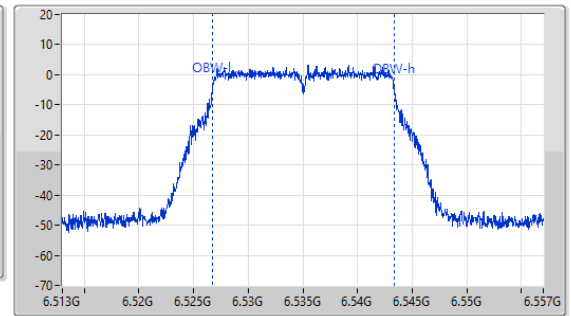
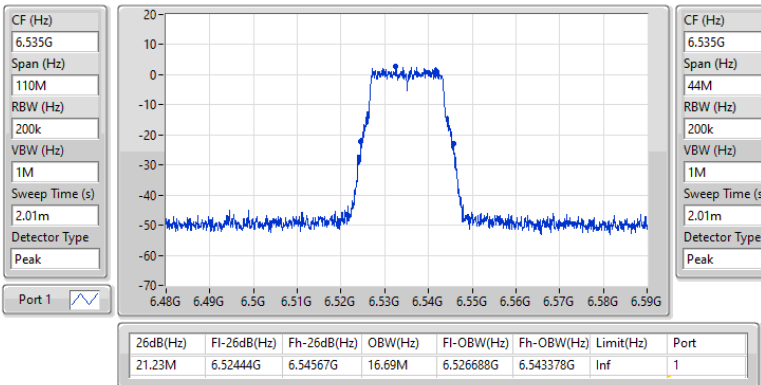


6.525-6.875GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

6535MHz

24/02/2025

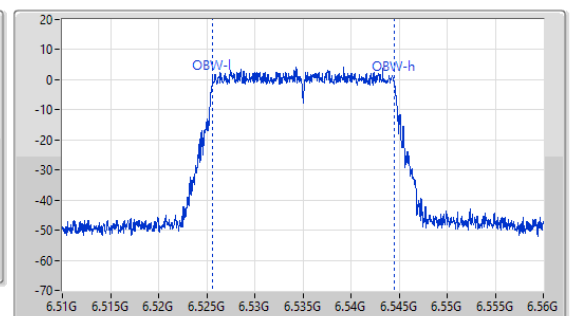
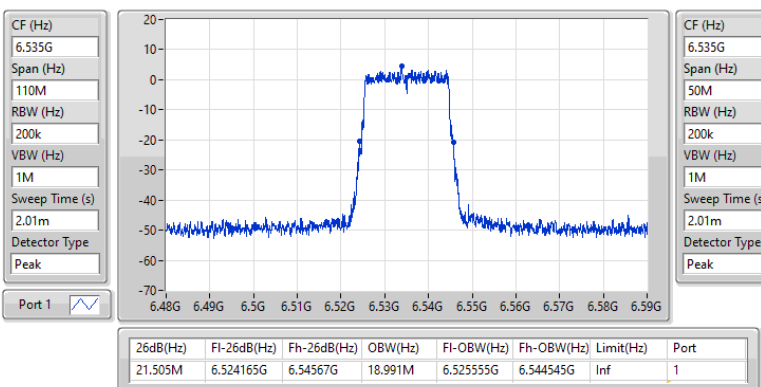


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6535MHz

24/02/2025

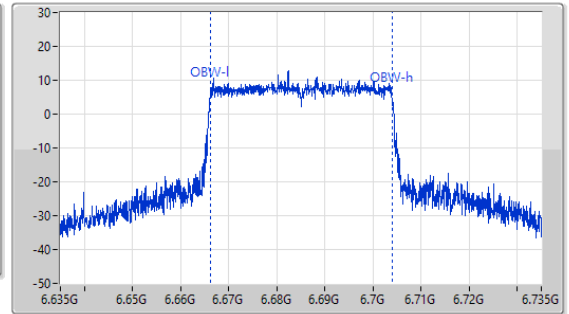
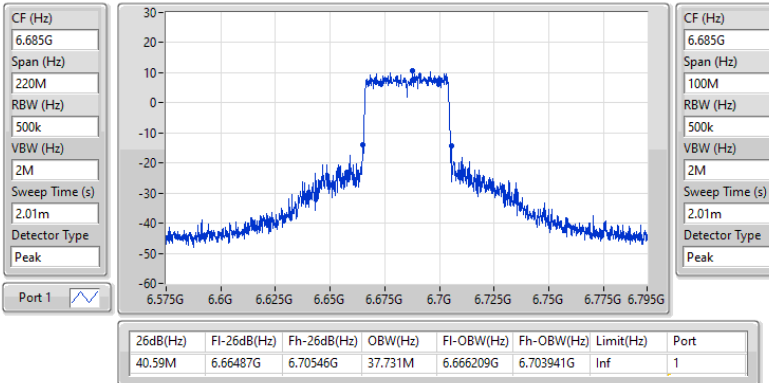


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6685MHz

24/02/2025

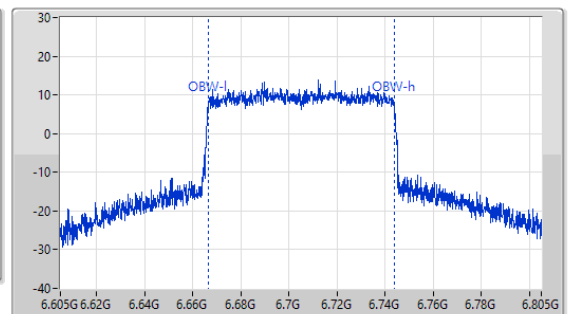
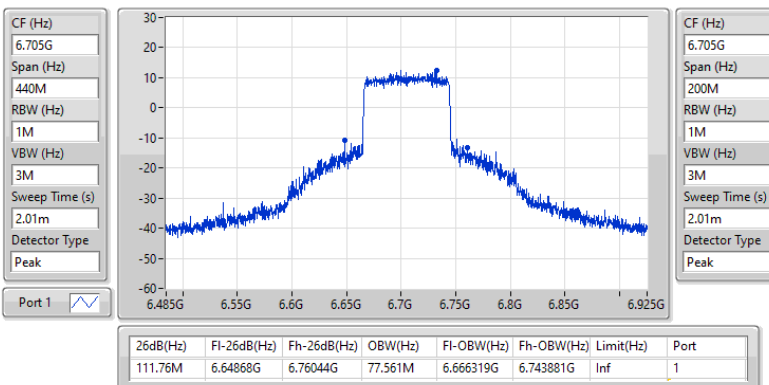


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6705MHz

24/02/2025

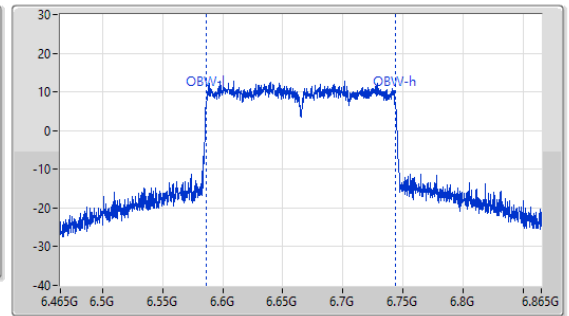
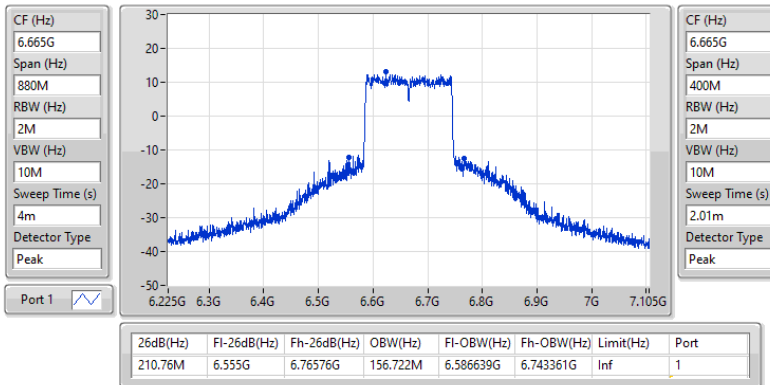


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6665MHz

24/02/2025

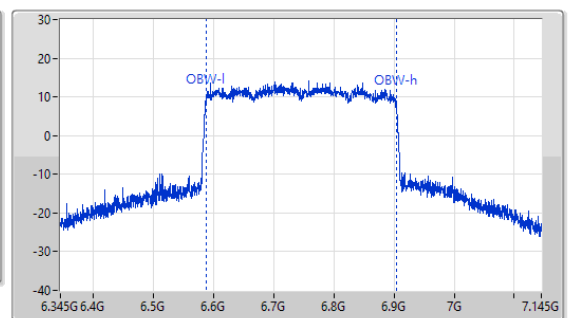
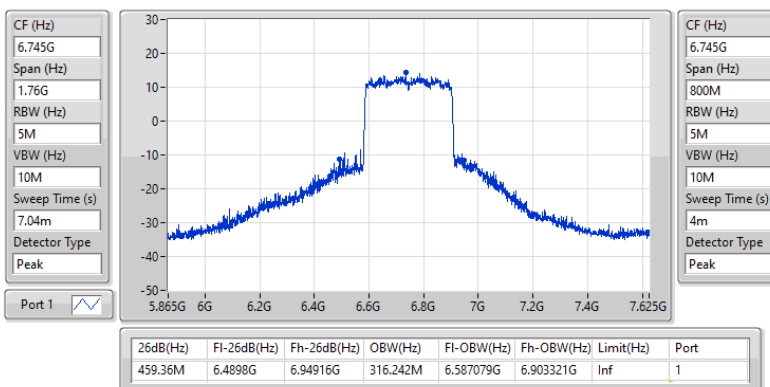


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_1TX

EBW

6745MHz

24/02/2025

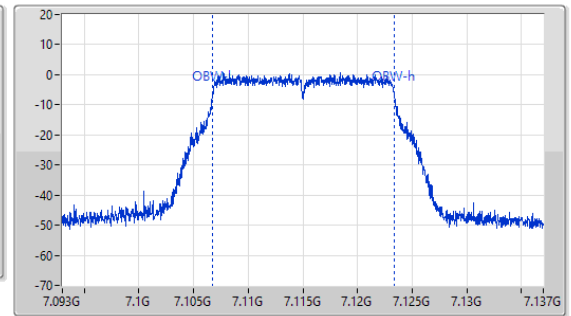
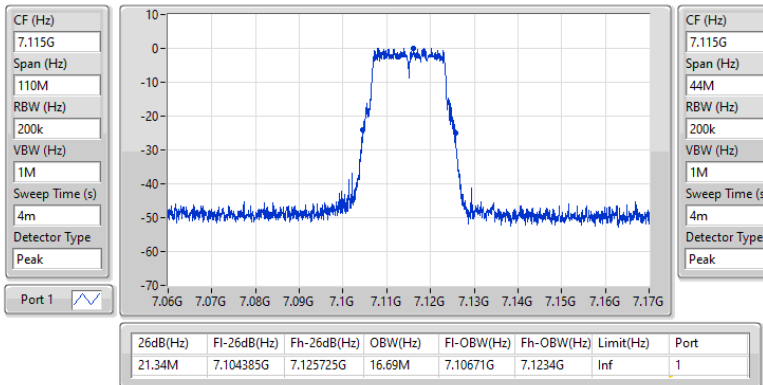


6.875-7.125GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

7115MHz

24/02/2025

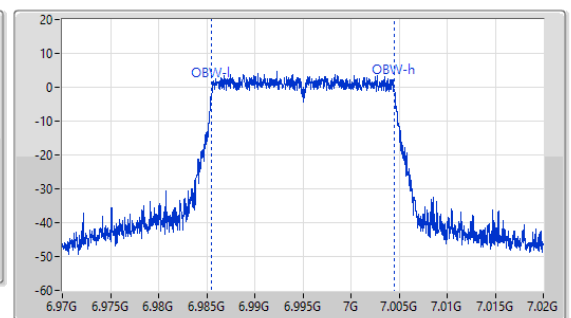
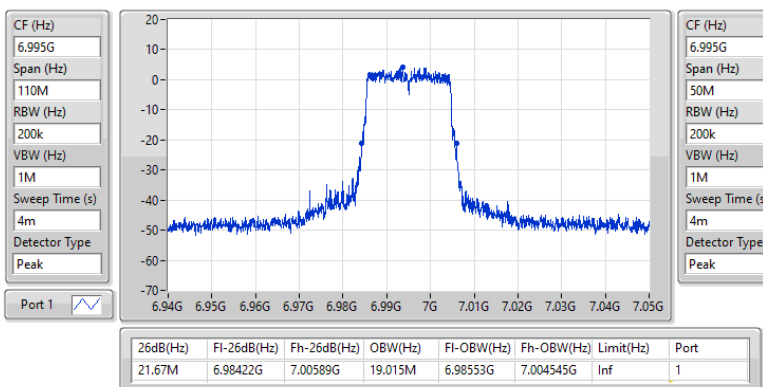


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6995MHz

24/02/2025

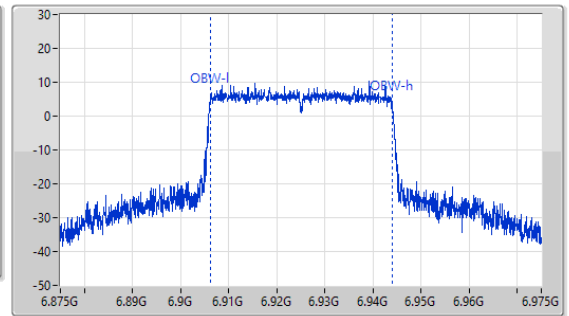
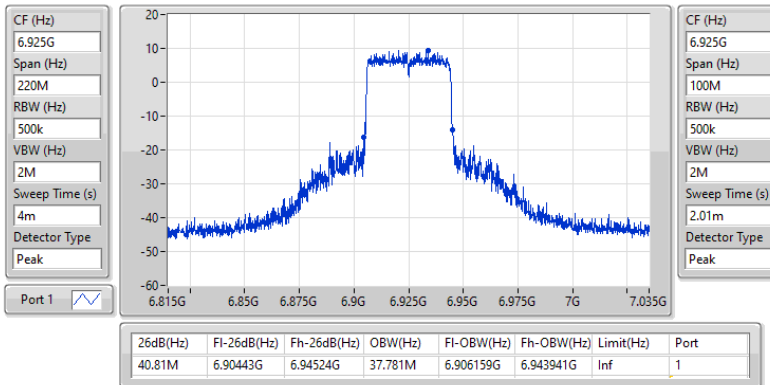


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6925MHz

24/02/2025

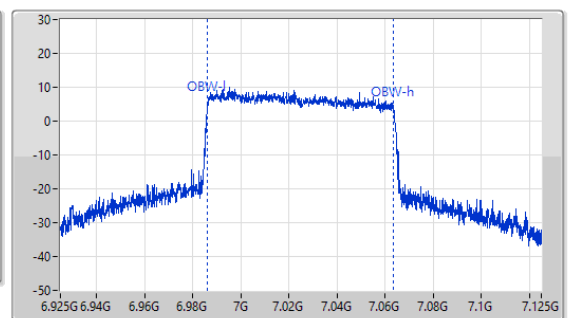
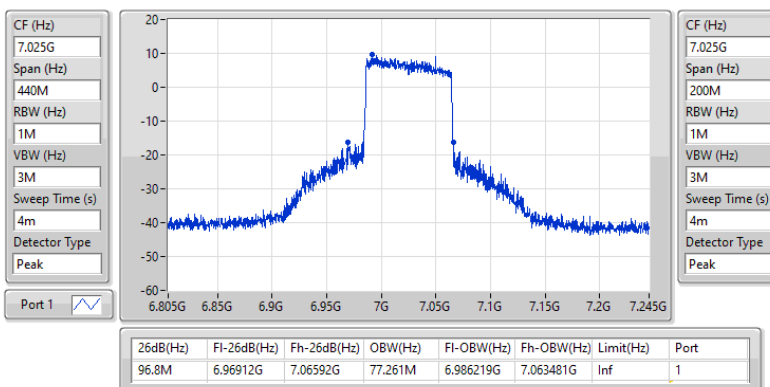


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

7025MHz

24/02/2025

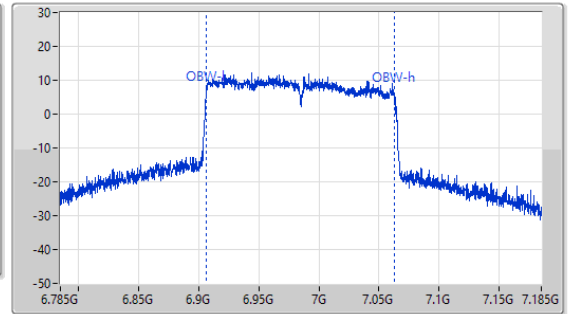
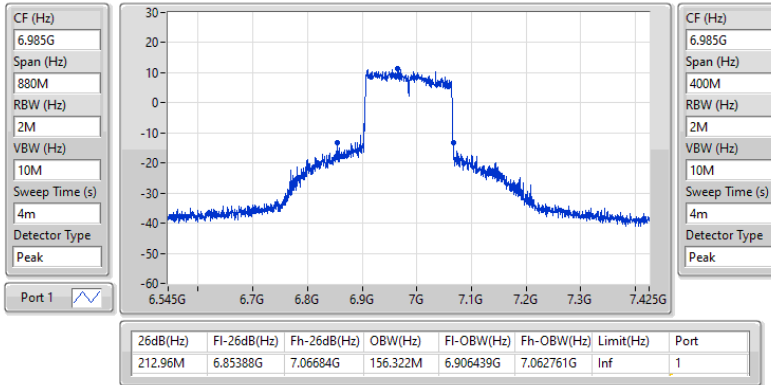


6.875-7.125GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6985MHz

24/02/2025



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.12M	16.734M	16M7D1D	20.735M	16.646M
802.11be EHT20_Nss1,(MCS0)_2TX	21.725M	19.065M	19M1D1D	20.955M	19.015M
802.11be EHT40_Nss1,(MCS0)_2TX	39.82M	37.781M	37M8D1D	39.27M	37.681M
802.11be EHT80_Nss1,(MCS0)_2TX	82.06M	77.161M	77M2D1D	80.3M	76.762M
802.11be EHT160_Nss1,(MCS0)_2TX	164.12M	156.322M	156MD1D	162.36M	155.522M
802.11be EHT320_Nss1,(MCS0)_2TX	326.48M	315.442M	315MD1D	324.72M	314.243M
6.425-6.525GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.45M	16.734M	16M7D1D	20.735M	16.602M
802.11be EHT20_Nss1,(MCS0)_2TX	21.34M	19.065M	19M1D1D	20.9M	18.966M
802.11be EHT40_Nss1,(MCS0)_2TX	40.59M	37.781M	37M8D1D	39.38M	37.681M
802.11be EHT80_Nss1,(MCS0)_2TX	81.62M	77.261M	77M3D1D	80.74M	77.061M
802.11be EHT160_Nss1,(MCS0)_2TX	163.68M	156.722M	157MD1D	163.68M	156.122M
802.11be EHT320_Nss1,(MCS0)_2TX	359.04M	316.242M	316MD1D	325.6M	315.442M
6.525-6.875GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.23M	16.756M	16M8D1D	20.625M	16.668M
802.11be EHT20_Nss1,(MCS0)_2TX	21.23M	19.065M	19M1D1D	20.79M	18.966M
802.11be EHT40_Nss1,(MCS0)_2TX	40.26M	37.781M	37M8D1D	39.38M	37.631M
802.11be EHT80_Nss1,(MCS0)_2TX	81.62M	77.361M	77M4D1D	80.52M	77.061M
802.11be EHT160_Nss1,(MCS0)_2TX	164.12M	156.522M	157MD1D	163.68M	156.122M
802.11be EHT320_Nss1,(MCS0)_2TX	350.24M	315.442M	315MD1D	324.72M	313.443M
6.875-7.125GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.285M	16.756M	16M8D1D	20.79M	16.646M
802.11be EHT20_Nss1,(MCS0)_2TX	21.835M	19.09M	19M1D1D	21.34M	18.991M
802.11be EHT40_Nss1,(MCS0)_2TX	40.37M	37.781M	37M8D1D	40.04M	37.681M
802.11be EHT80_Nss1,(MCS0)_2TX	81.62M	77.361M	77M4D1D	80.74M	77.161M
802.11be EHT160_Nss1,(MCS0)_2TX	162.8M	155.922M	156MD1D	162.36M	155.722M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	20.79M	16.69M	20.735M	16.646M
6195MHz	Pass	Inf	21.01M	16.734M	20.79M	16.668M
6415MHz	Pass	Inf	21.12M	16.712M	20.79M	16.646M
6435MHz	Pass	Inf	21.01M	16.734M	20.9M	16.668M
6475MHz	Pass	Inf	21.45M	16.712M	21.285M	16.602M
6515MHz	Pass	Inf	21.23M	16.712M	20.735M	16.646M
6535MHz	Pass	Inf	21.12M	16.756M	20.955M	16.668M
6695MHz	Pass	Inf	20.845M	16.712M	20.625M	16.668M
6875MHz	Pass	Inf	21.23M	16.69M	21.175M	16.69M
6895MHz	Pass	Inf	21.285M	16.69M	21.175M	16.646M
6995MHz	Pass	Inf	20.79M	16.712M	21.175M	16.668M
7095MHz	Pass	Inf	21.065M	16.734M	21.23M	16.69M
7115MHz	Pass	Inf	21.065M	16.756M	21.12M	16.668M
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.505M	19.015M	21.285M	19.015M
6195MHz	Pass	Inf	21.725M	19.015M	21.34M	19.04M
6415MHz	Pass	Inf	20.955M	19.015M	21.23M	19.065M
6435MHz	Pass	Inf	20.955M	19.065M	21.285M	19.065M
6475MHz	Pass	Inf	21.34M	18.991M	21.01M	19.04M
6515MHz	Pass	Inf	20.9M	19.015M	21.23M	18.966M
6535MHz	Pass	Inf	20.79M	19.065M	21.23M	18.966M
6695MHz	Pass	Inf	21.065M	18.991M	21.23M	19.015M
6875MHz	Pass	Inf	21.01M	19.015M	20.845M	19.015M
6895MHz	Pass	Inf	21.78M	19.09M	21.34M	18.991M
6995MHz	Pass	Inf	21.395M	19.04M	21.395M	19.04M
7095MHz	Pass	Inf	21.835M	19.09M	21.615M	19.09M
7115MHz	Pass	Inf	21.34M	19.015M	21.34M	19.065M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	39.27M	37.681M	39.82M	37.731M
6205MHz	Pass	Inf	39.82M	37.681M	39.6M	37.781M
6405MHz	Pass	Inf	39.71M	37.731M	39.49M	37.681M
6445MHz	Pass	Inf	39.82M	37.731M	39.38M	37.681M
6485MHz	Pass	Inf	40.04M	37.731M	40.59M	37.681M
6525MHz	Pass	Inf	39.6M	37.781M	39.93M	37.731M
6565MHz	Pass	Inf	40.26M	37.681M	39.93M	37.681M
6685MHz	Pass	Inf	40.26M	37.631M	40.15M	37.731M
6885MHz	Pass	Inf	39.49M	37.681M	39.38M	37.781M
6925MHz	Pass	Inf	40.26M	37.681M	40.15M	37.781M
7005MHz	Pass	Inf	40.26M	37.731M	40.37M	37.681M
7085MHz	Pass	Inf	40.04M	37.681M	40.15M	37.781M
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	80.96M	76.762M	80.3M	76.862M
6225MHz	Pass	Inf	81.18M	77.061M	80.96M	77.061M
6385MHz	Pass	Inf	82.06M	77.161M	80.96M	77.161M
6465MHz	Pass	Inf	80.74M	77.061M	81.62M	77.261M
6545MHz	Pass	Inf	80.74M	77.261M	81.18M	77.161M
6625MHz	Pass	Inf	80.96M	77.361M	81.18M	77.261M
6705MHz	Pass	Inf	80.52M	77.261M	80.74M	77.161M
6785MHz	Pass	Inf	81.4M	77.161M	81.62M	77.161M
6865MHz	Pass	Inf	80.52M	77.061M	81.18M	77.261M
6945MHz	Pass	Inf	81.4M	77.361M	81.62M	77.161M
7025MHz	Pass	Inf	80.74M	77.261M	81.18M	77.161M
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	163.68M	155.922M	162.8M	155.522M



EBW_Non-Beamforming_Radio 3_2T1S

Appendix B.2

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
6185MHz	Pass	Inf	164.12M	156.122M	162.36M	156.322M
6345MHz	Pass	Inf	162.8M	156.122M	162.36M	156.322M
6505MHz	Pass	Inf	163.68M	156.122M	163.68M	156.722M
6665MHz	Pass	Inf	163.68M	156.522M	164.12M	156.522M
6825MHz	Pass	Inf	163.68M	156.322M	163.68M	156.122M
6985MHz	Pass	Inf	162.8M	155.922M	162.36M	155.722M
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	324.72M	315.442M	325.6M	315.442M
6265MHz	Pass	Inf	326.48M	314.643M	325.6M	314.243M
6425MHz	Pass	Inf	325.6M	315.442M	326.48M	315.442M
6585MHz	Pass	Inf	359.04M	316.242M	326.48M	316.242M
6745MHz	Pass	Inf	350.24M	315.042M	324.72M	315.442M
6905MHz	Pass	Inf	327.36M	314.643M	325.6M	313.443M

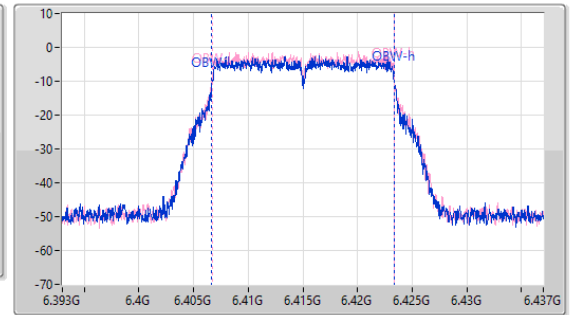
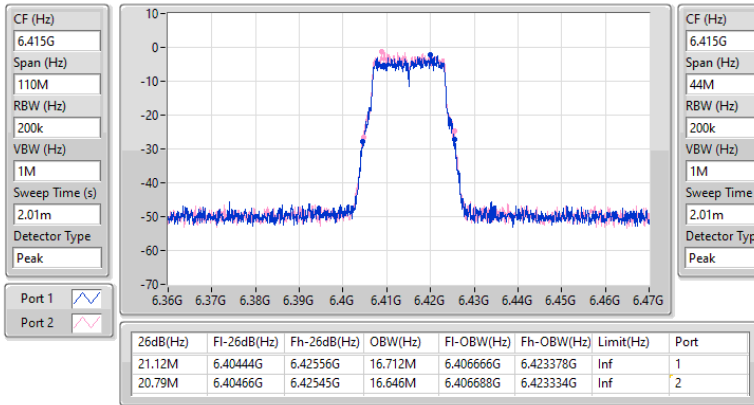
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

6415MHz

22/02/2025

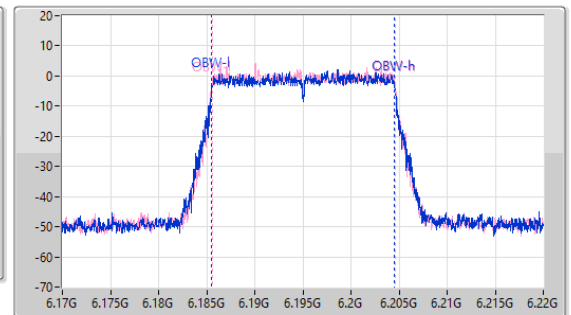
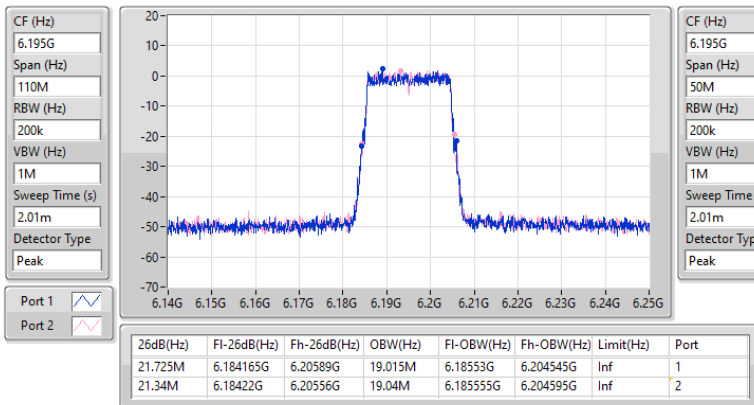


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6195MHz

22/02/2025

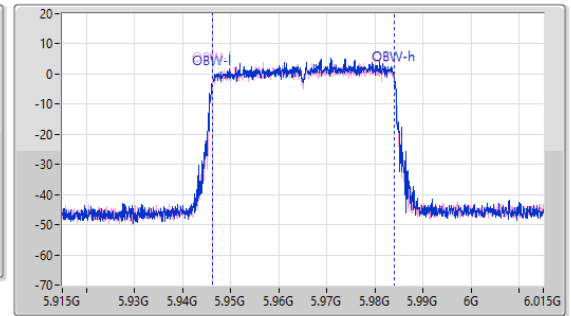
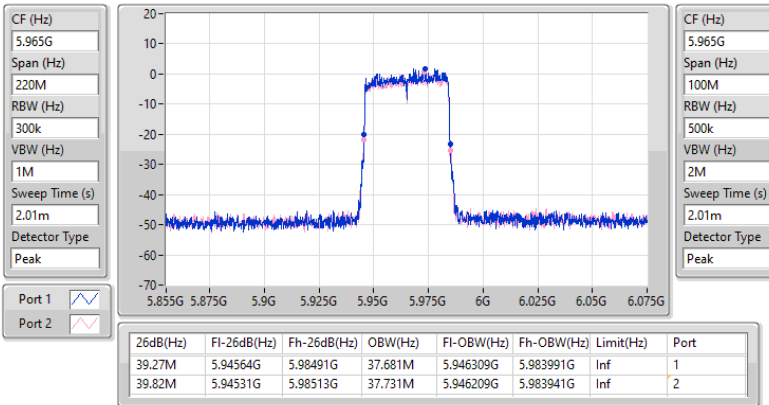


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5965MHz

22/02/2025

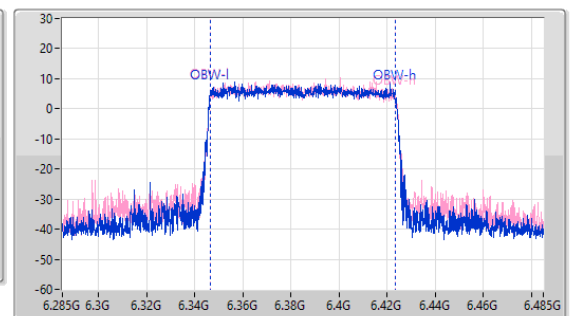
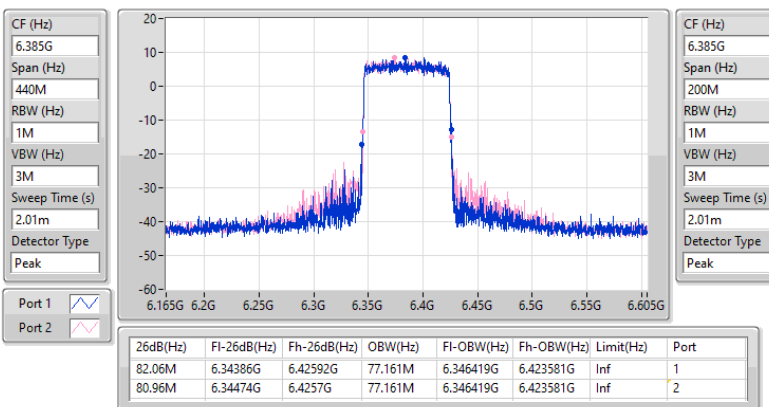


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6385MHz

22/02/2025

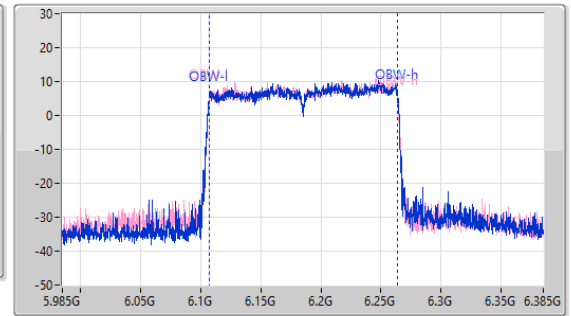
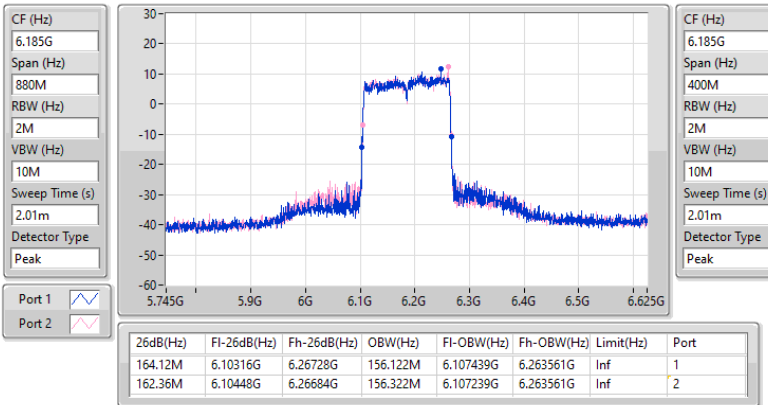


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6185MHz

22/02/2025

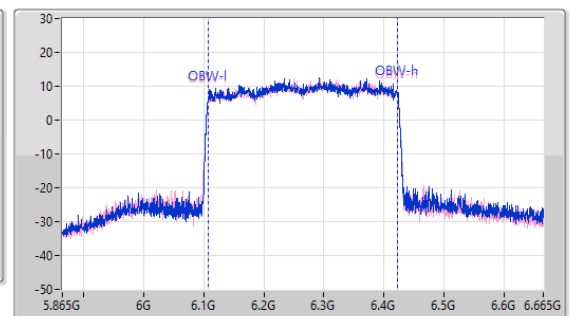
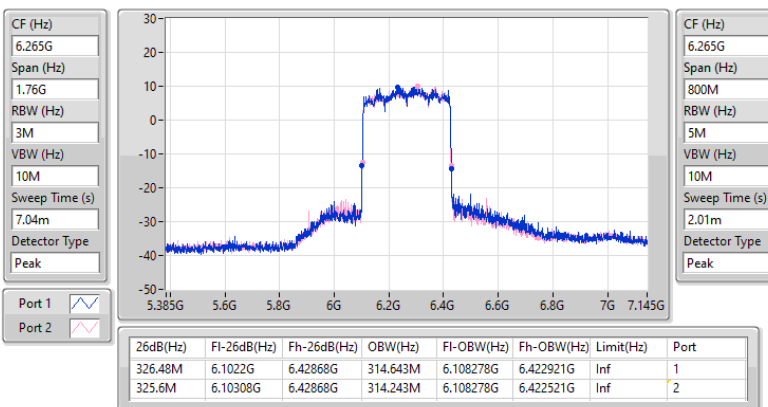


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6265MHz

22/02/2025

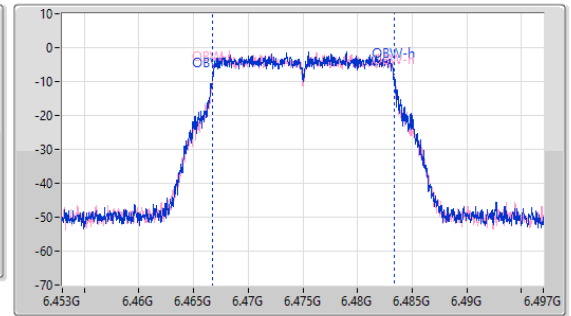
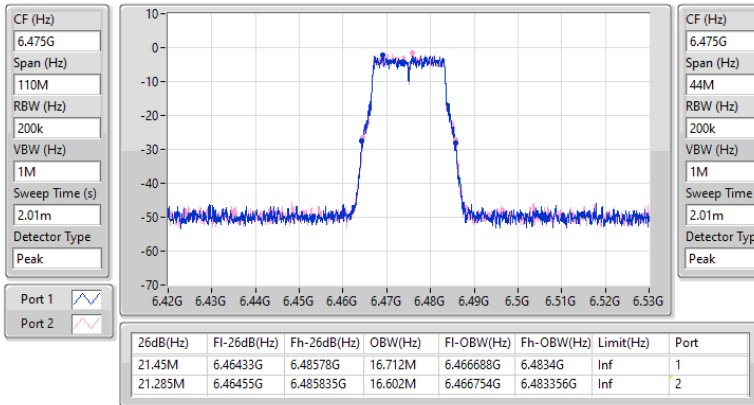


6.425-6.525GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

6475MHz

22/02/2025

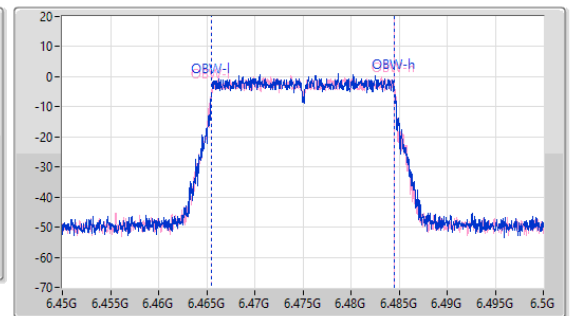
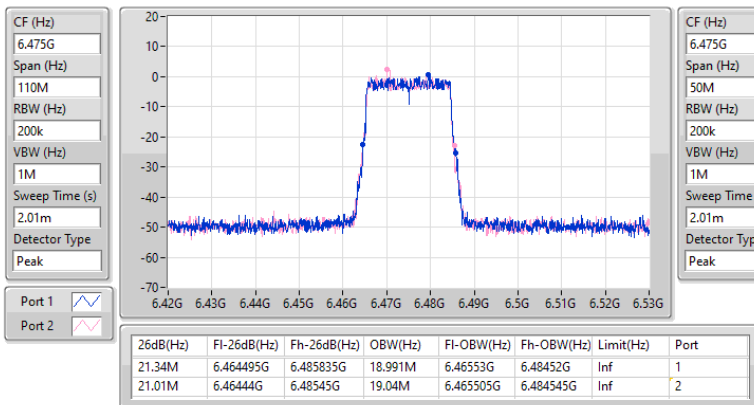


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6475MHz

22/02/2025

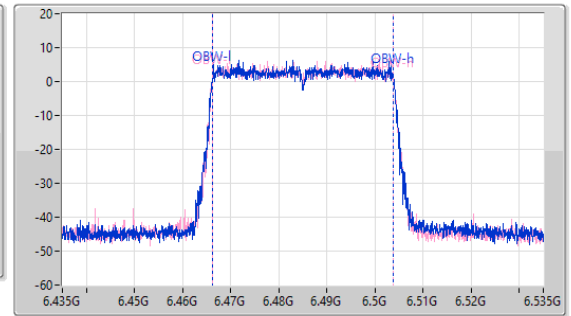
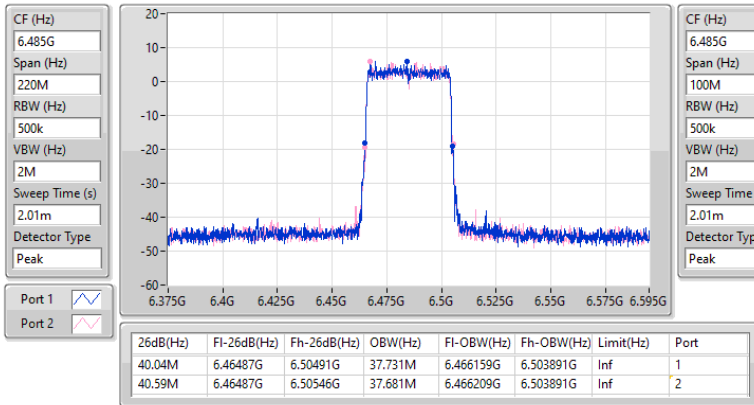


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6485MHz

22/02/2025

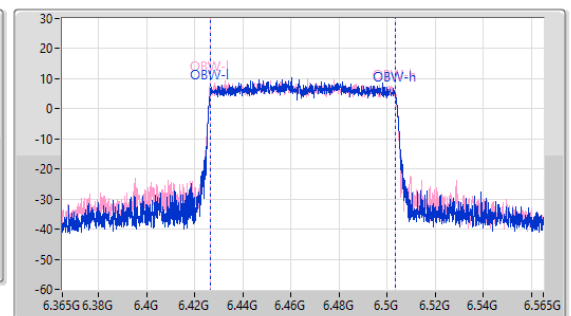
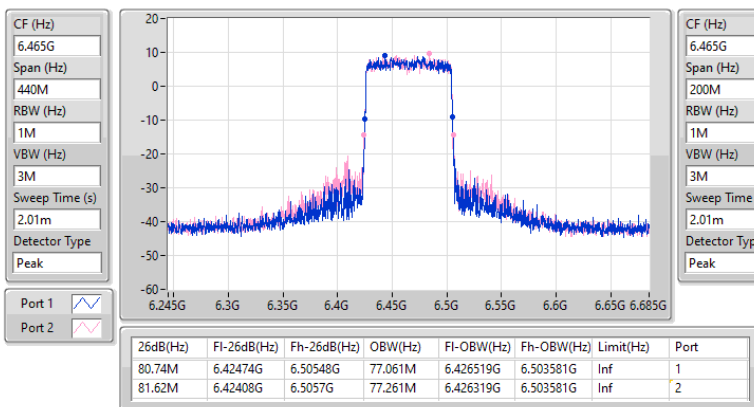


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6465MHz

22/02/2025

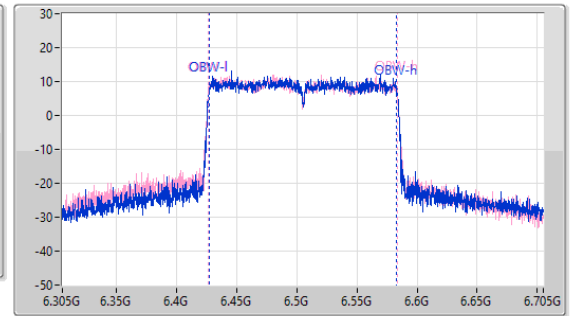
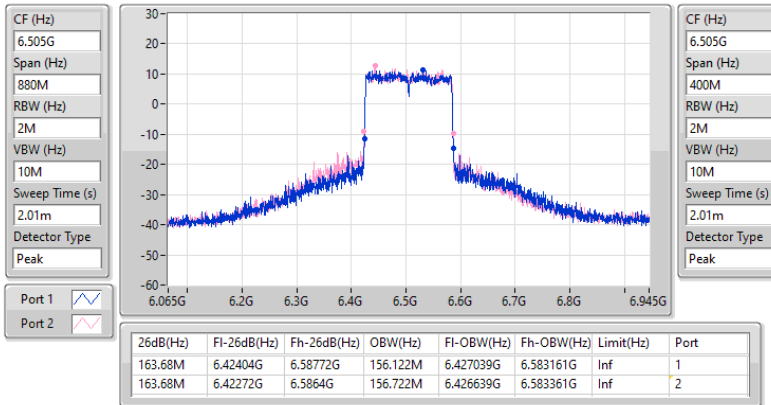


6.425-6.525GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6505MHz

22/02/2025

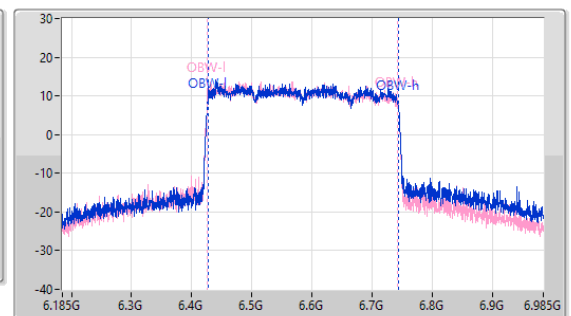
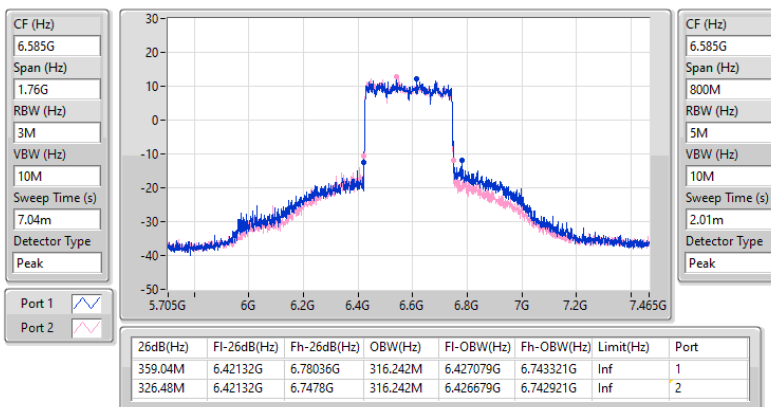


6.425-6.525GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6585MHz

22/02/2025

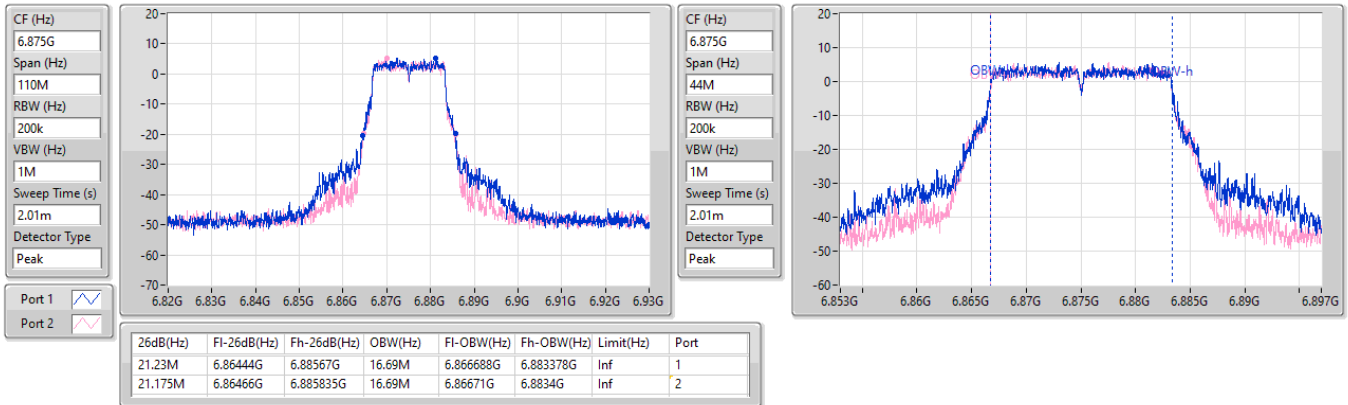


6.525-6.875GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

6875MHz

22/02/2025

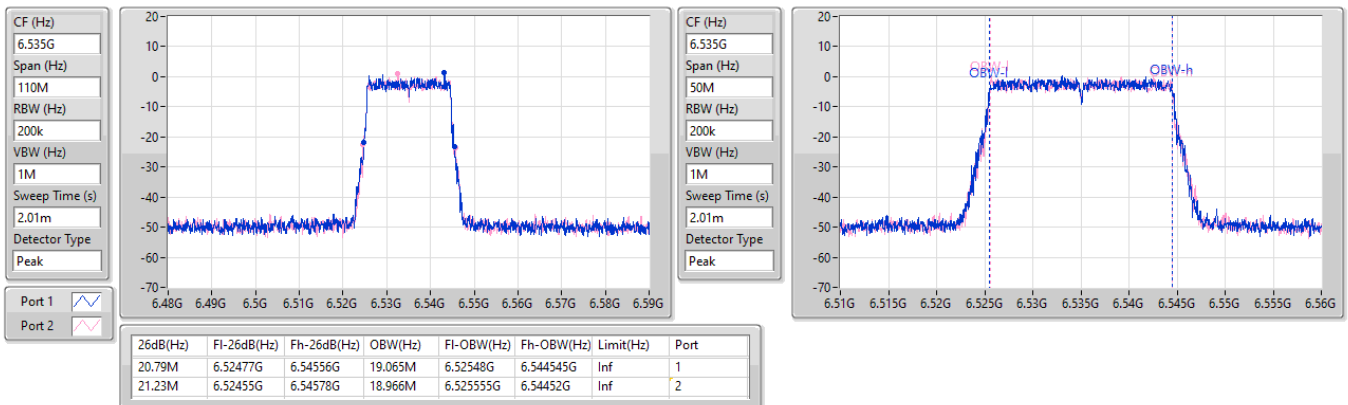


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6535MHz

22/02/2025

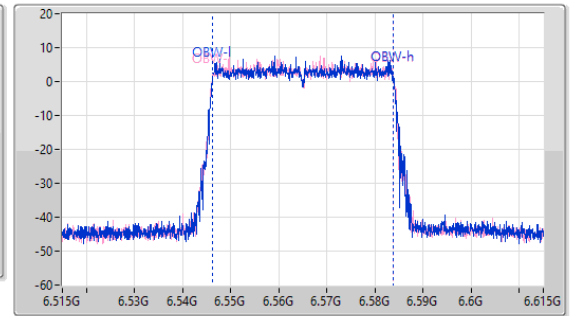
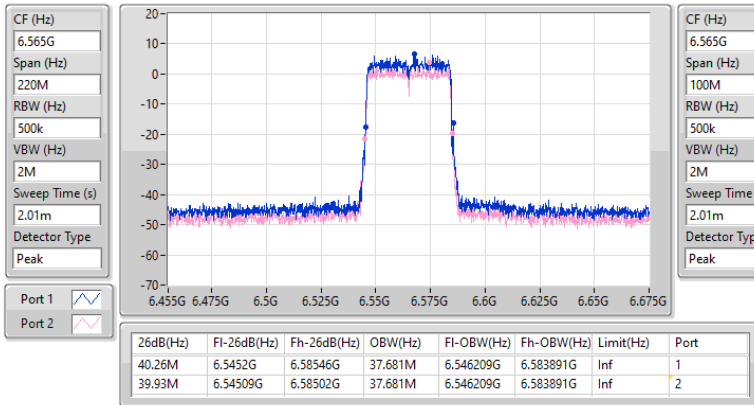


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6565MHz

22/02/2025

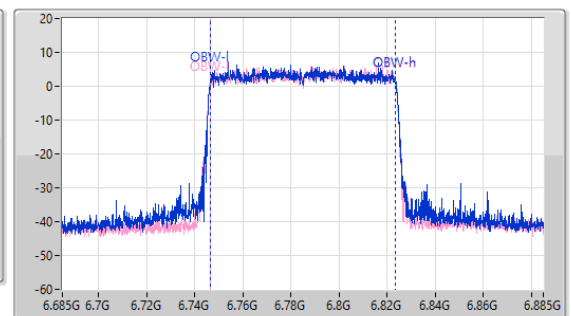
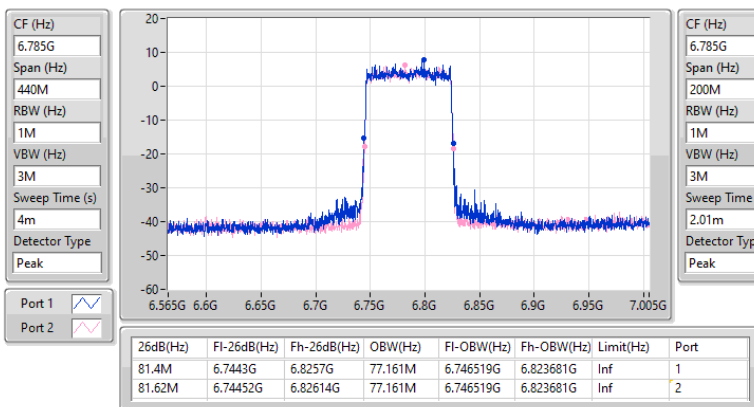


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6785MHz

22/02/2025

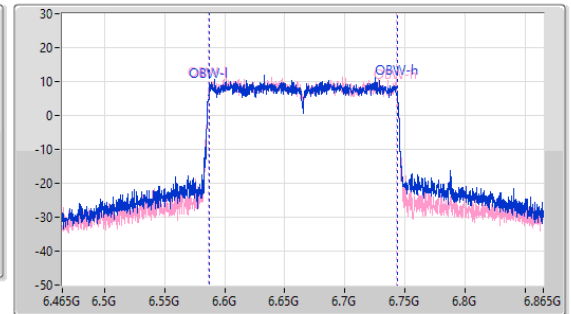
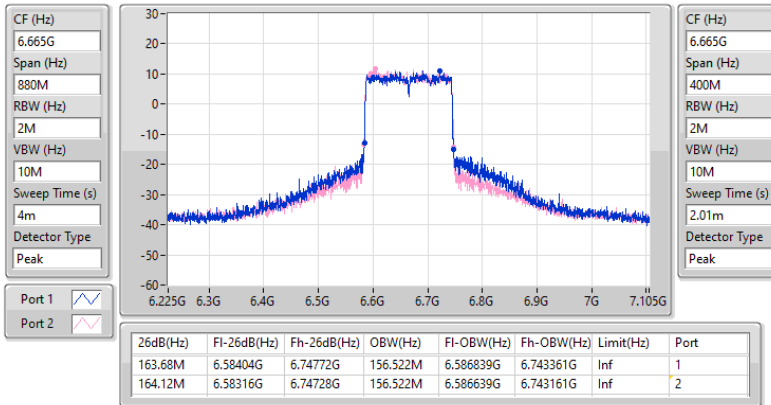


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6665MHz

22/02/2025

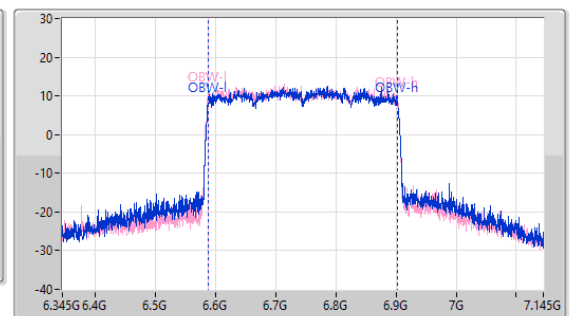
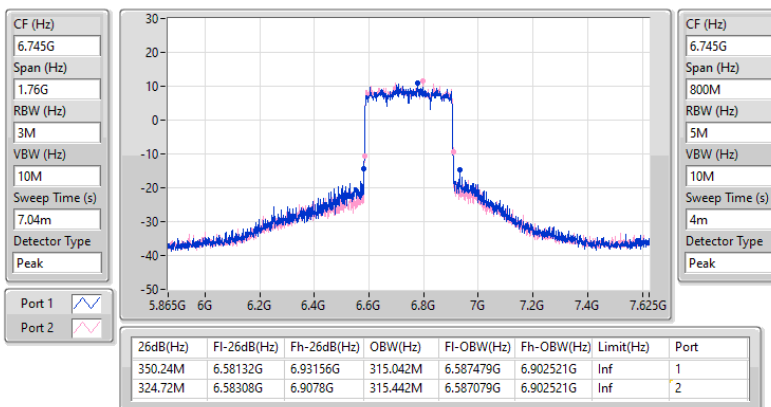


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6745MHz

22/02/2025

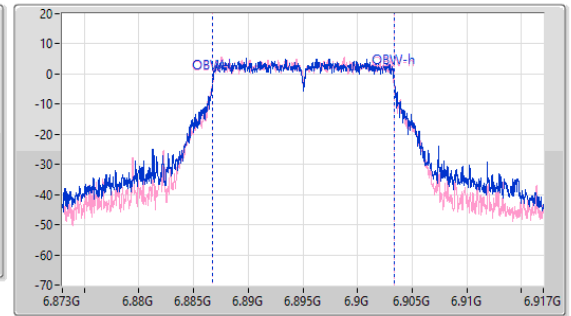
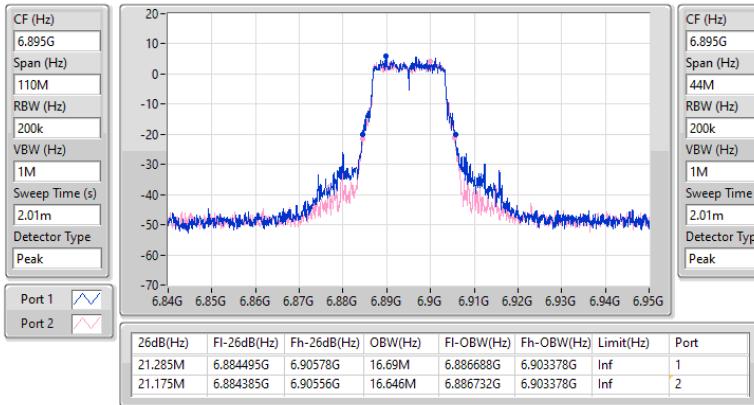


6.875-7.125GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

6895MHz

22/02/2025

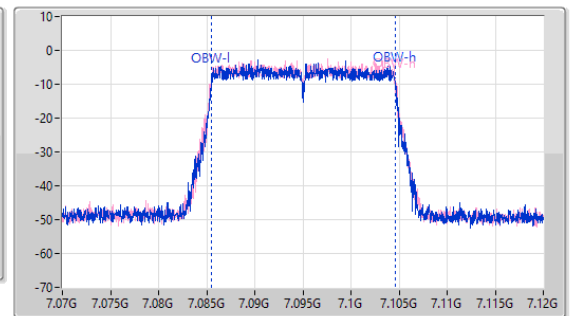
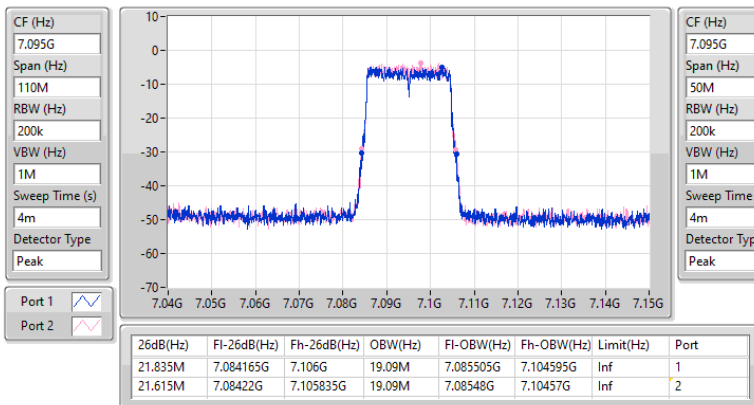


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

7095MHz

22/02/2025

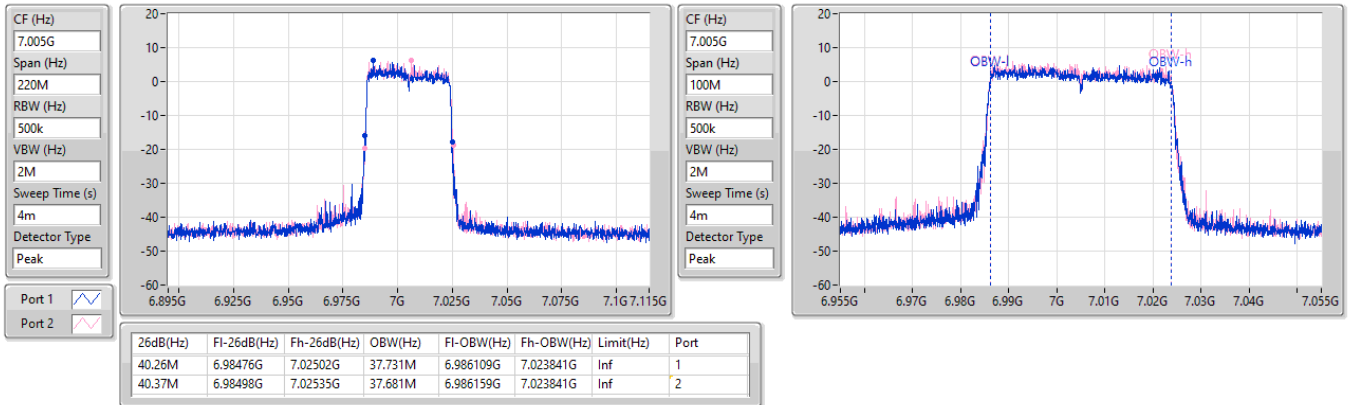


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

7005MHz

22/02/2025

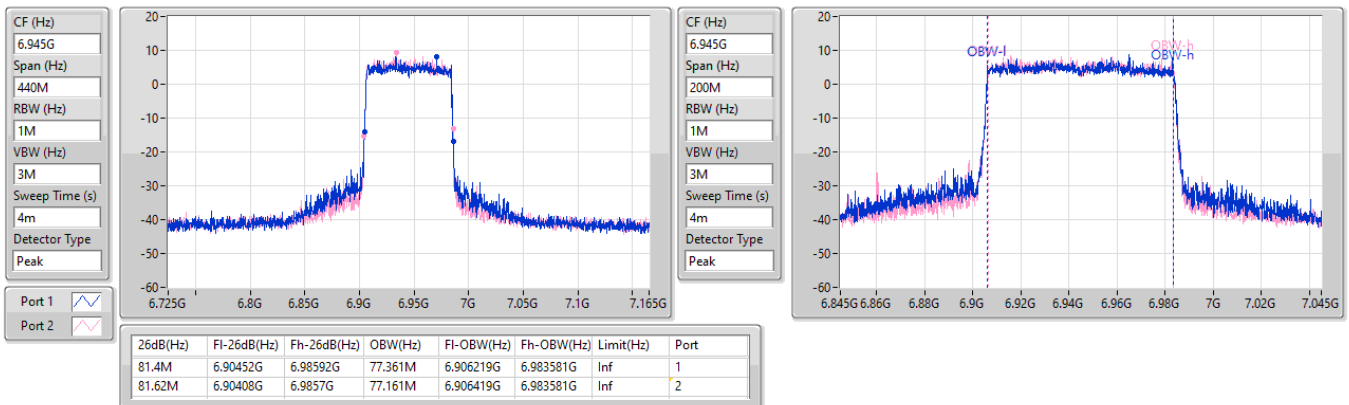


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6945MHz

22/02/2025

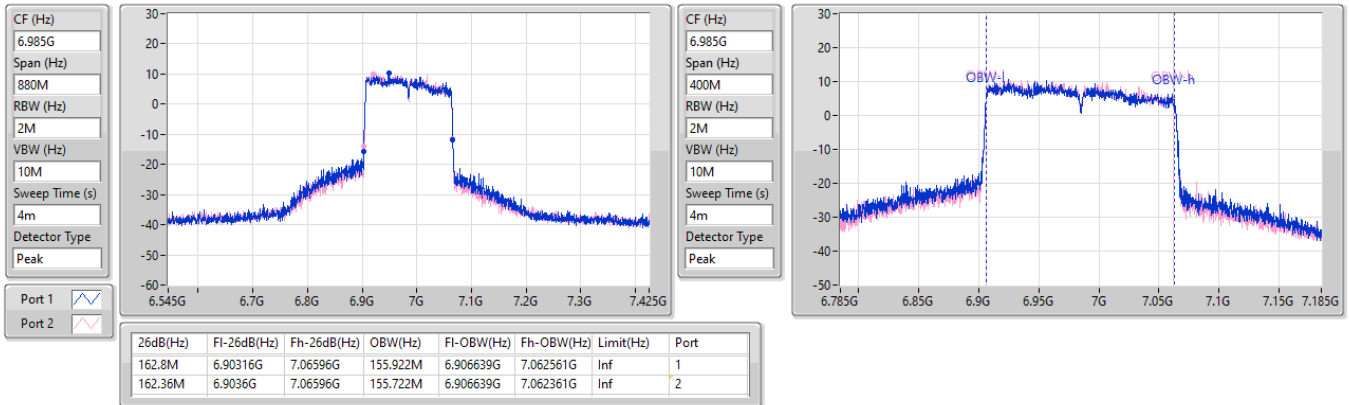


6.875-7.125GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6985MHz

22/02/2025



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20_Nss2,(MCS0)_2TX	21.34M	19.04M	19M0D1D	20.955M	18.991M
802.11be EHT40_Nss2,(MCS0)_2TX	40.37M	37.781M	37M8D1D	39.71M	37.631M
802.11be EHT80_Nss2,(MCS0)_2TX	81.62M	77.161M	77M2D1D	80.52M	76.662M
802.11be EHT160_Nss2,(MCS0)_2TX	164.56M	156.322M	156MD1D	161.92M	155.522M
802.11be EHT320_Nss2,(MCS0)_2TX	326.48M	315.442M	315MD1D	324.72M	314.243M
6.425-6.525GHz	-	-	-	-	-
802.11be EHT20_Nss2,(MCS0)_2TX	21.395M	19.065M	19M1D1D	20.79M	19.015M
802.11be EHT40_Nss2,(MCS0)_2TX	39.82M	37.781M	37M8D1D	39.38M	37.631M
802.11be EHT80_Nss2,(MCS0)_2TX	81.62M	77.361M	77M4D1D	80.96M	77.161M
802.11be EHT160_Nss2,(MCS0)_2TX	163.24M	156.522M	157MD1D	163.24M	156.522M
802.11be EHT320_Nss2,(MCS0)_2TX	326.48M	316.642M	317MD1D	325.6M	315.442M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss2,(MCS0)_2TX	21.56M	19.065M	19M1D1D	20.845M	18.991M
802.11be EHT40_Nss2,(MCS0)_2TX	40.15M	37.831M	37M8D1D	39.6M	37.681M
802.11be EHT80_Nss2,(MCS0)_2TX	85.8M	77.461M	77M5D1D	80.74M	77.161M
802.11be EHT160_Nss2,(MCS0)_2TX	168.08M	156.522M	157MD1D	163.24M	156.122M
802.11be EHT320_Nss2,(MCS0)_2TX	339.68M	315.442M	315MD1D	324.72M	313.843M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20_Nss2,(MCS0)_2TX	21.67M	19.065M	19M1D1D	20.9M	18.991M
802.11be EHT40_Nss2,(MCS0)_2TX	40.26M	37.731M	37M7D1D	40.04M	37.681M
802.11be EHT80_Nss2,(MCS0)_2TX	81.84M	77.261M	77M3D1D	80.96M	77.161M
802.11be EHT160_Nss2,(MCS0)_2TX	168.08M	156.122M	156MD1D	162.8M	156.122M

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)
802.11be EHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.285M	19.04M	20.955M	19.015M
6195MHz	Pass	Inf	21.065M	19.04M	21.175M	18.991M
6415MHz	Pass	Inf	21.34M	19.04M	21.065M	19.015M
6435MHz	Pass	Inf	21.23M	19.065M	20.79M	19.04M
6475MHz	Pass	Inf	20.9M	19.04M	21.34M	19.04M
6515MHz	Pass	Inf	21.395M	19.015M	21.23M	19.04M
6535MHz	Pass	Inf	20.845M	19.015M	21.285M	19.065M
6695MHz	Pass	Inf	21.175M	19.065M	21.56M	19.065M
6875MHz	Pass	Inf	21.12M	18.991M	21.285M	19.04M
6895MHz	Pass	Inf	20.9M	19.015M	21.23M	19.015M
6995MHz	Pass	Inf	21.285M	18.991M	21.56M	19.015M
7095MHz	Pass	Inf	21.065M	19.015M	21.67M	19.04M
7115MHz	Pass	Inf	21.34M	19.065M	21.395M	19.04M
802.11be EHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	40.04M	37.681M	40.15M	37.631M
6205MHz	Pass	Inf	39.93M	37.681M	39.82M	37.781M
6405MHz	Pass	Inf	40.37M	37.731M	39.71M	37.781M
6445MHz	Pass	Inf	39.82M	37.731M	39.6M	37.731M
6485MHz	Pass	Inf	39.82M	37.731M	39.38M	37.781M
6525MHz	Pass	Inf	39.6M	37.731M	39.6M	37.631M
6565MHz	Pass	Inf	39.6M	37.681M	39.82M	37.731M
6685MHz	Pass	Inf	39.71M	37.731M	39.71M	37.731M
6885MHz	Pass	Inf	40.15M	37.831M	40.15M	37.681M
6925MHz	Pass	Inf	40.15M	37.731M	40.26M	37.731M
7005MHz	Pass	Inf	40.15M	37.681M	40.04M	37.731M
7085MHz	Pass	Inf	40.15M	37.681M	40.15M	37.681M
802.11be EHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	81.4M	76.662M	80.52M	76.862M
6225MHz	Pass	Inf	80.52M	77.061M	80.52M	77.061M
6385MHz	Pass	Inf	81.18M	77.061M	81.62M	77.161M
6465MHz	Pass	Inf	80.96M	77.161M	81.18M	77.261M
6545MHz	Pass	Inf	81.62M	77.161M	81.62M	77.361M
6625MHz	Pass	Inf	80.74M	77.261M	80.96M	77.261M
6705MHz	Pass	Inf	85.8M	77.161M	80.96M	77.161M
6785MHz	Pass	Inf	81.84M	77.161M	80.96M	77.161M
6865MHz	Pass	Inf	81.18M	77.361M	81.18M	77.461M
6945MHz	Pass	Inf	80.96M	77.261M	81.18M	77.161M
7025MHz	Pass	Inf	81.84M	77.161M	81.4M	77.161M
802.11be EHT160_Nss2,(MCS0)_2TX	-	-	-	-	-	-

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
6025MHz	Pass	Inf	162.8M	155.922M	163.24M	155.522M
6185MHz	Pass	Inf	164.56M	155.922M	163.24M	156.122M
6345MHz	Pass	Inf	163.24M	156.322M	161.92M	155.922M
6505MHz	Pass	Inf	163.24M	156.522M	163.24M	156.522M
6665MHz	Pass	Inf	164.12M	156.522M	163.24M	156.522M
6825MHz	Pass	Inf	168.08M	156.322M	163.68M	156.122M
6985MHz	Pass	Inf	168.08M	156.122M	162.8M	156.122M
802.11be EHT320_Nss2,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	324.72M	315.442M	325.6M	315.442M
6265MHz	Pass	Inf	326.48M	314.243M	324.72M	314.643M
6425MHz	Pass	Inf	325.6M	315.442M	325.6M	315.442M
6585MHz	Pass	Inf	326.48M	316.642M	326.48M	316.242M
6745MHz	Pass	Inf	328.24M	315.442M	326.48M	315.442M
6905MHz	Pass	Inf	339.68M	315.042M	324.72M	313.843M

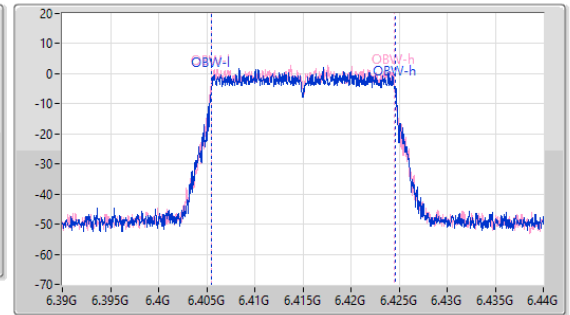
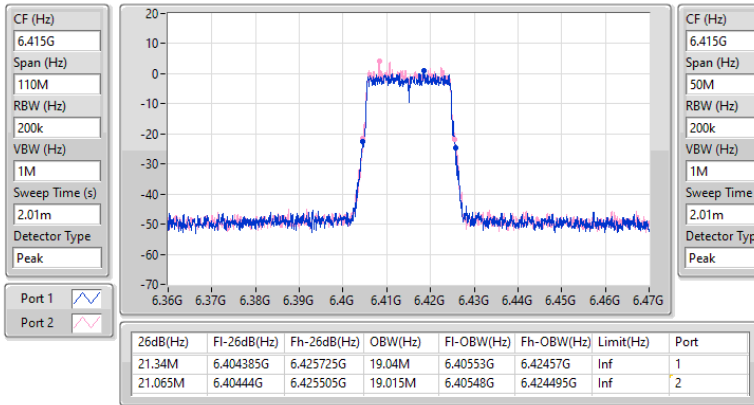
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

6415MHz

21/02/2025

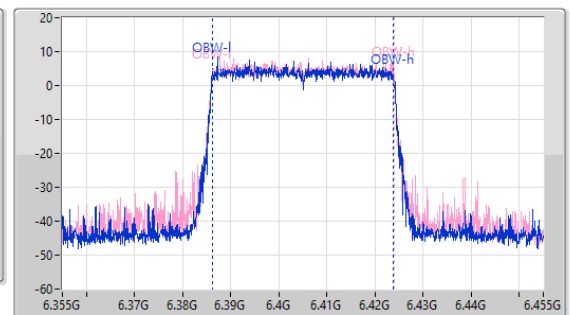
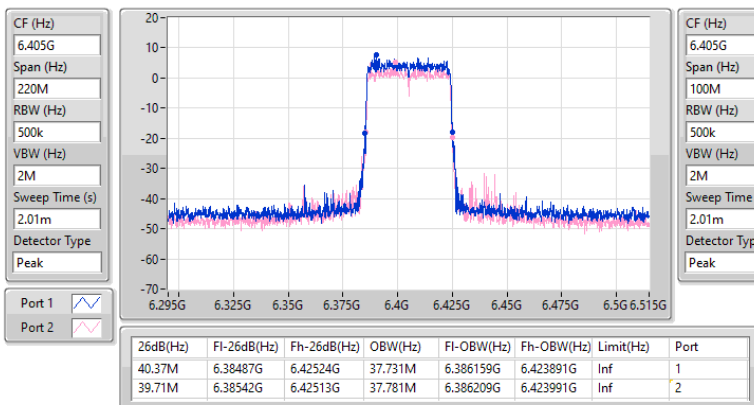


5.925-6.425GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6405MHz

21/02/2025

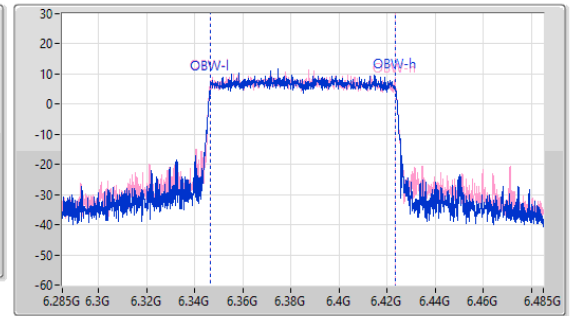
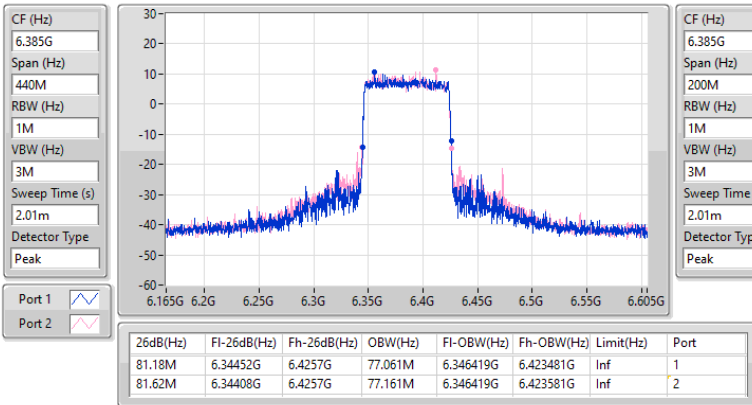


5.925-6.425GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

6385MHz

21/02/2025

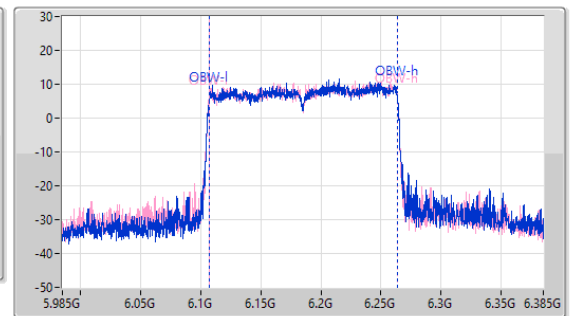
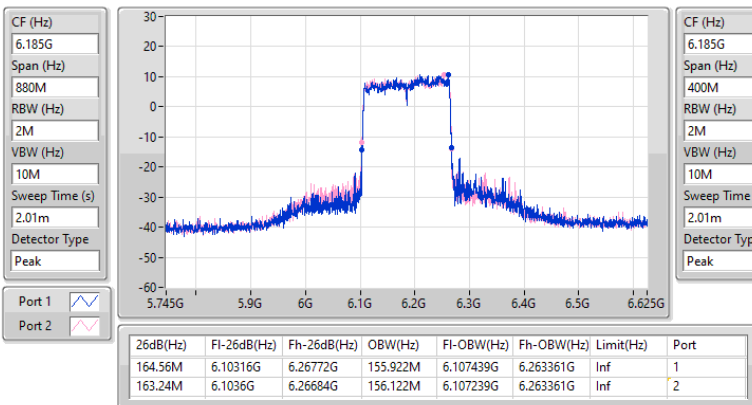


5.925-6.425GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6185MHz

21/02/2025

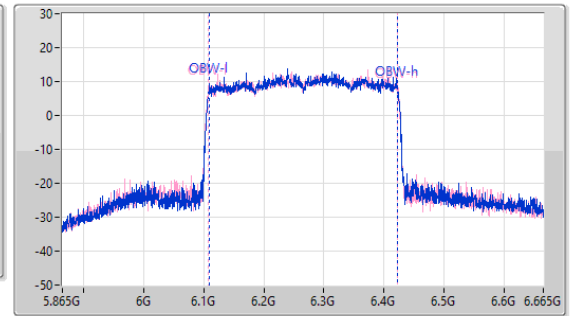
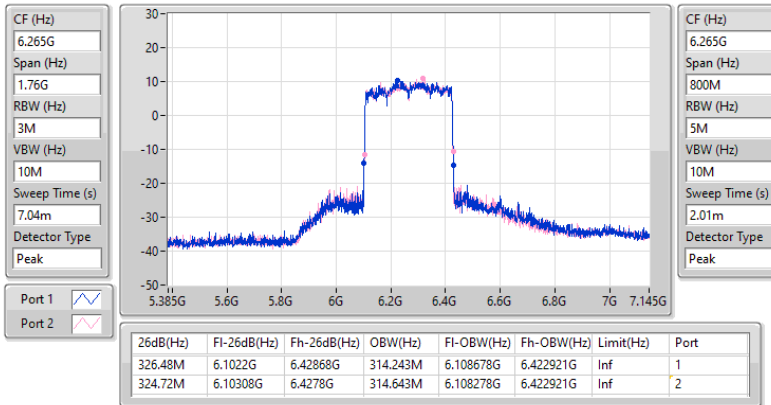


5.925-6.425GHz_802.11be EHT320_Nss2,(MCS0)_2TX

EBW

6265MHz

21/02/2025

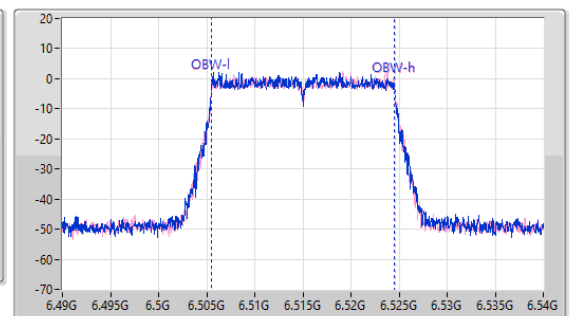
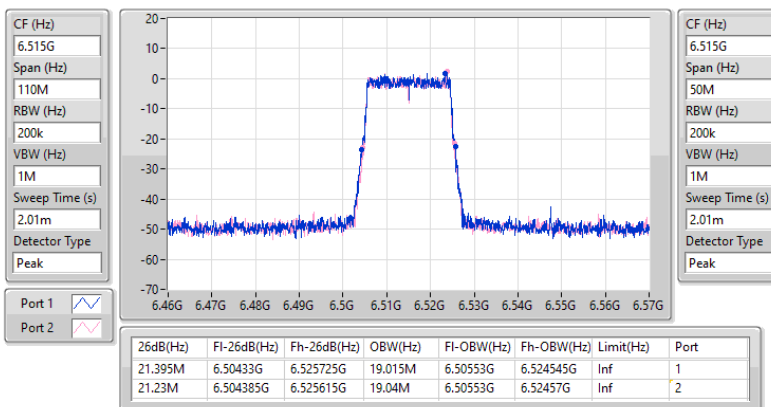


6.425-6.525GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

6515MHz

21/02/2025

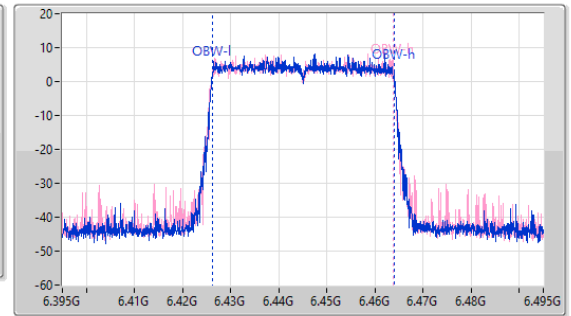
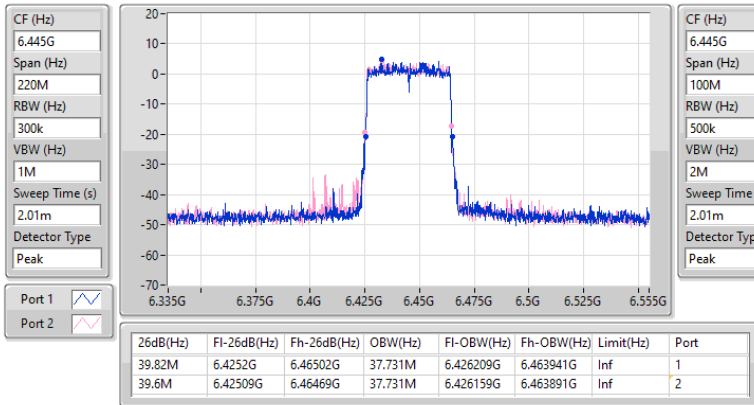


6.425-6.525GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6445MHz

21/02/2025

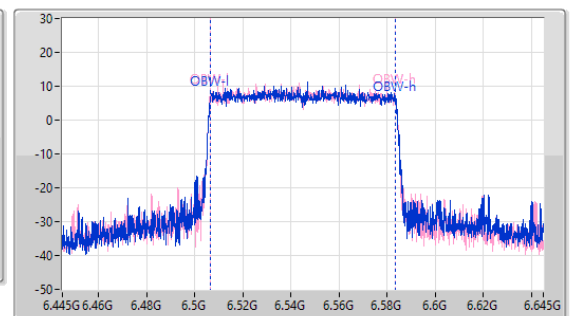
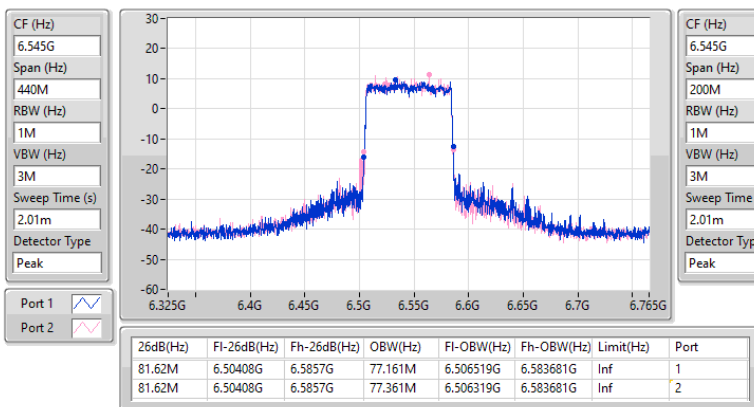


6.425-6.525GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

6545MHz

21/02/2025

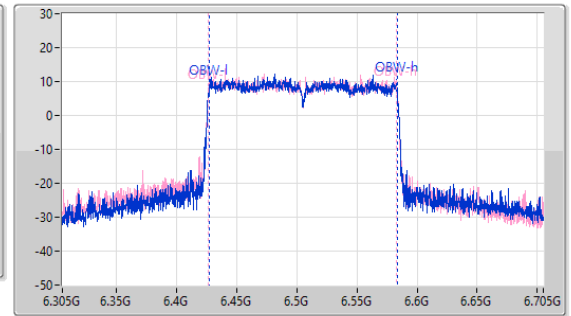
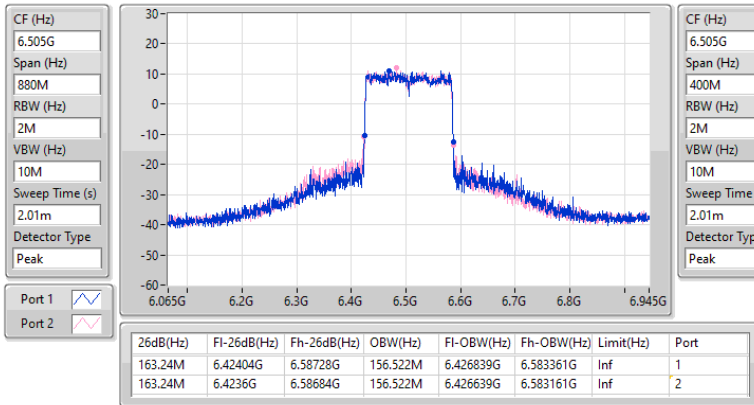


6.425-6.525GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6505MHz

21/02/2025

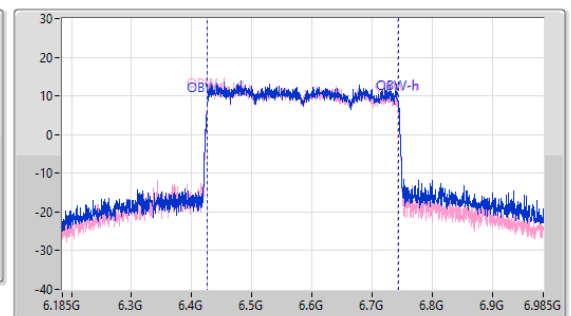
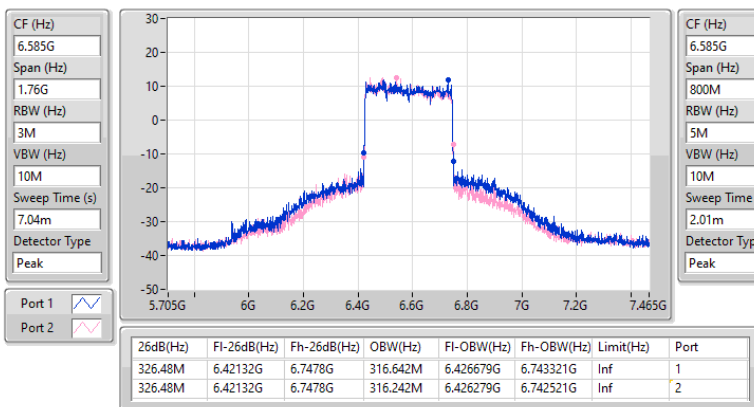


6.425-6.525GHz_802.11be EHT320_Nss2,(MCS0)_2TX

EBW

6585MHz

21/02/2025

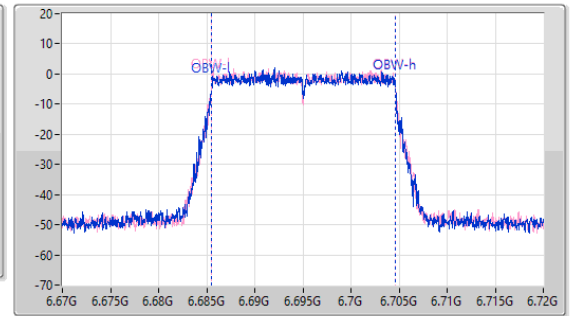
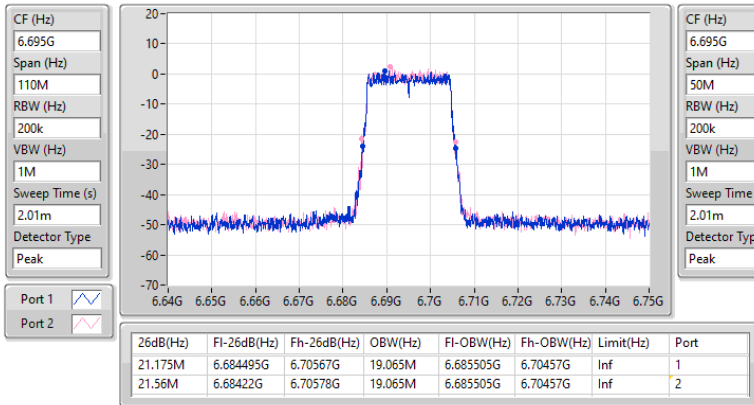


6.525-6.875GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

6695MHz

21/02/2025

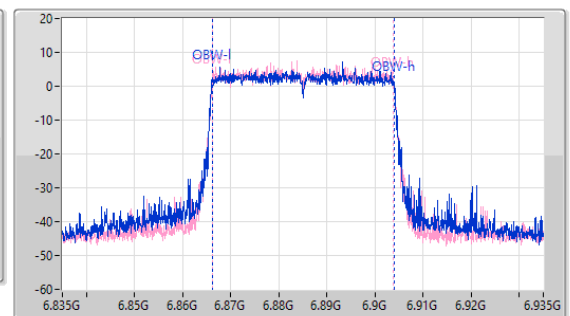
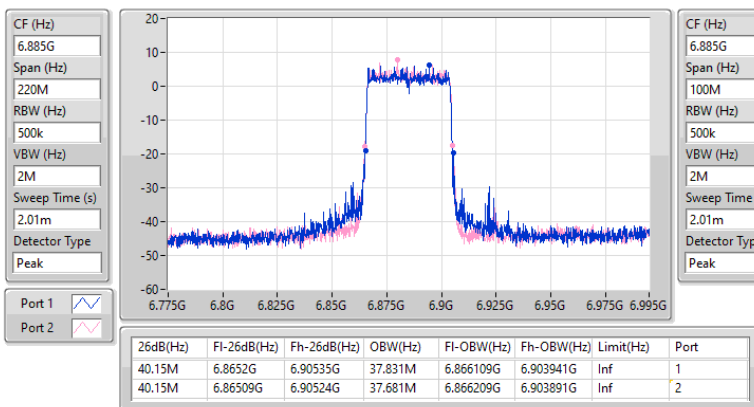


6.525-6.875GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6885MHz

21/02/2025

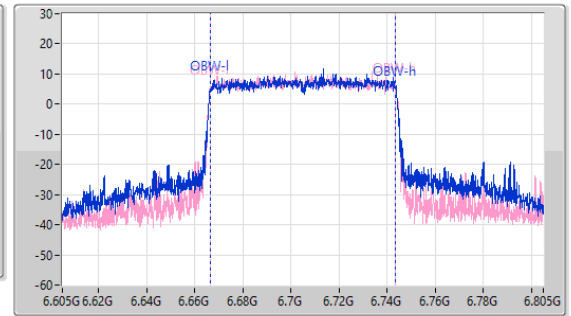
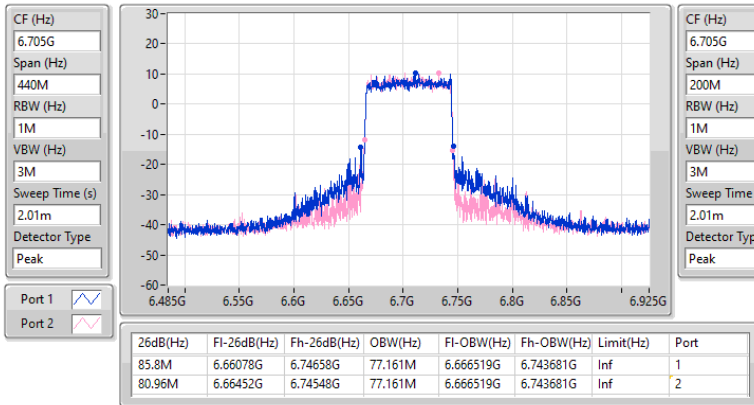


6.525-6.875GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

6705MHz

21/02/2025

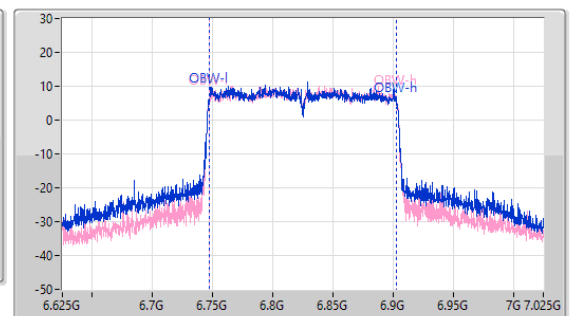
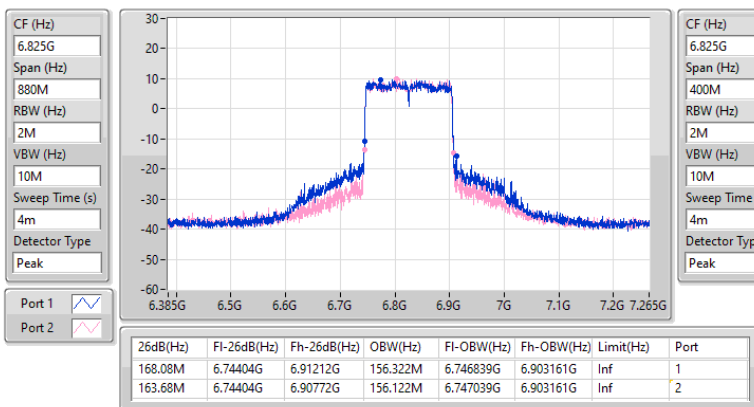


6.525-6.875GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6825MHz

21/02/2025

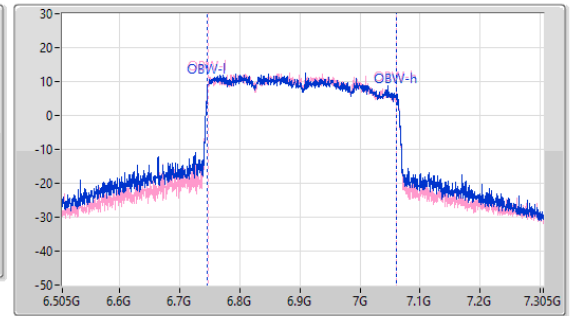
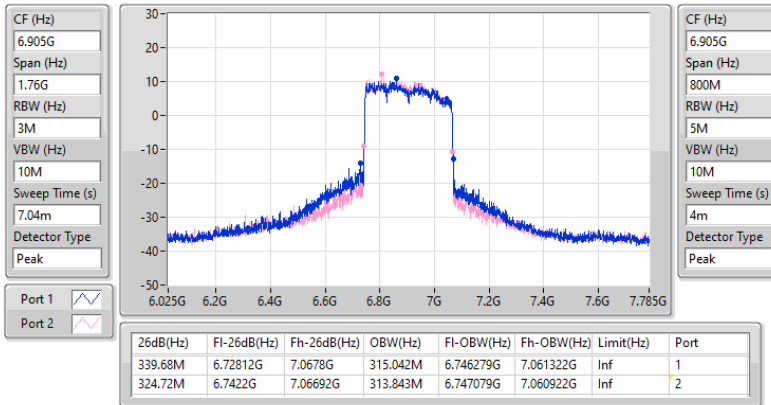


6.525-6.875GHz_802.11be EHT320_Nss2,(MCS0)_2TX

EBW

6905MHz

21/02/2025

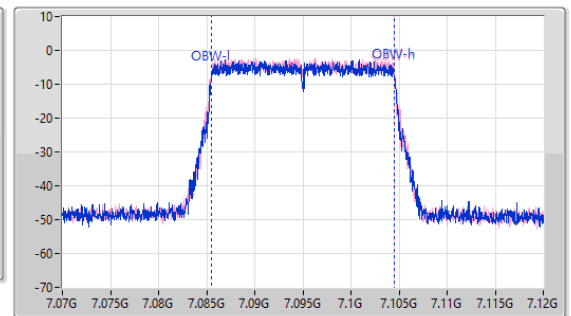
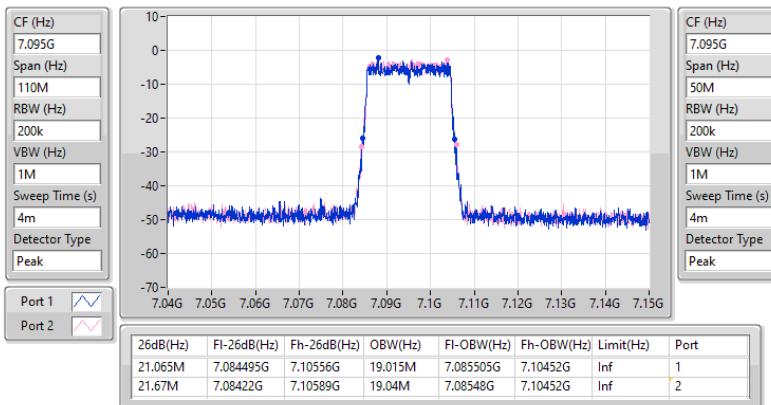


6.875-7.125GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

7095MHz

21/02/2025

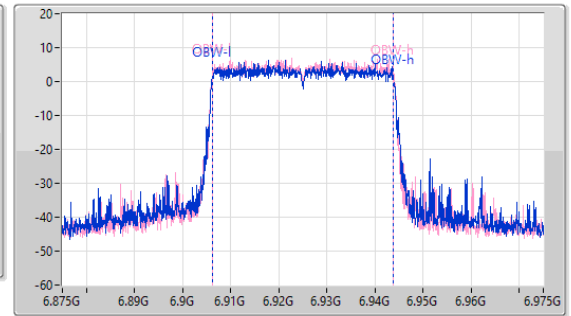
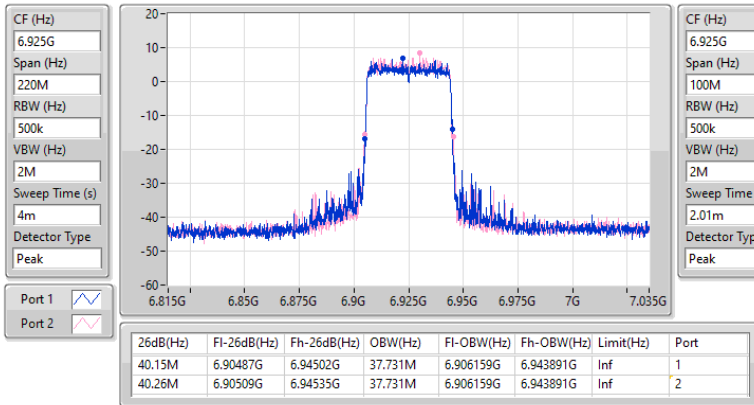


6.875-7.125GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6925MHz

21/02/2025

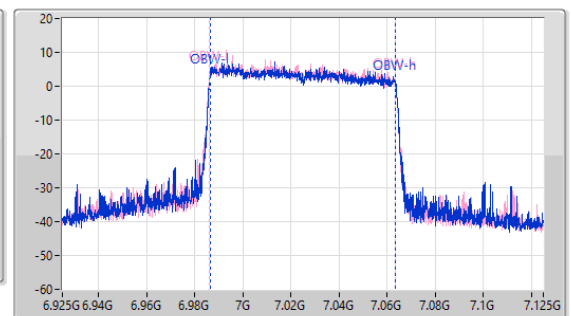
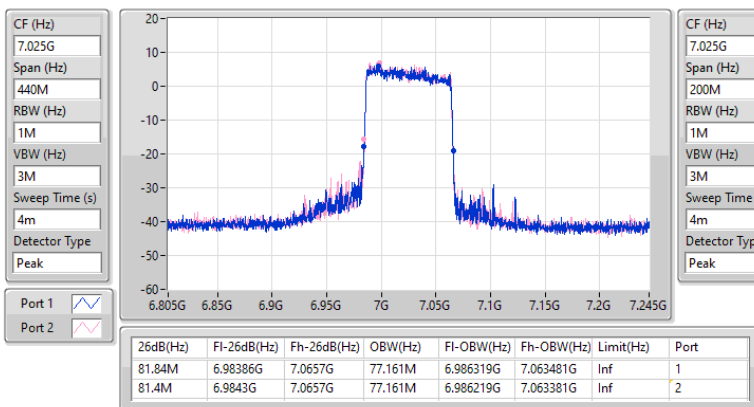


6.875-7.125GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

7025MHz

21/02/2025

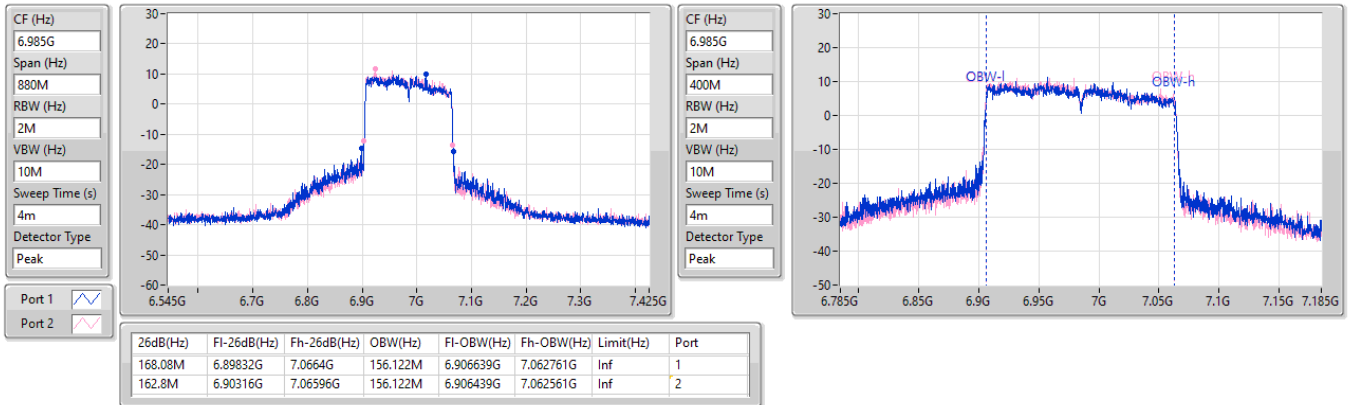


6.875-7.125GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6985MHz

21/02/2025



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	21.34M	19.065M	19M1D1D	21.01M	19.015M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	39.71M	37.731M	37M7D1D	39.38M	37.581M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	81.62M	77.161M	77M2D1D	80.3M	76.762M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	186.56M	156.722M	157MD1D	162.36M	155.722M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	381.04M	318.241M	318MD1D	324.72M	314.643M
6.425-6.525GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	21.505M	19.04M	19M0D1D	20.845M	19.015M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	40.26M	37.781M	37M8D1D	39.82M	37.631M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	81.62M	77.061M	77M1D1D	80.52M	76.962M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	164.12M	156.522M	157MD1D	163.24M	156.322M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	353.76M	316.242M	316MD1D	324.72M	315.442M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	21.395M	19.065M	19M1D1D	21.175M	18.966M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	40.15M	37.781M	37M8D1D	39.27M	37.631M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	90.86M	77.461M	77M5D1D	80.74M	77.061M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	219.56M	157.121M	157MD1D	163.68M	156.522M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	385.44M	316.642M	317MD1D	326.48M	313.043M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	21.615M	19.04M	19M0D1D	21.01M	18.941M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	40.48M	37.781M	37M8D1D	40.04M	37.631M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	81.4M	77.361M	77M4D1D	80.74M	76.762M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	180.4M	156.122M	156MD1D	178.64M	155.922M

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)
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.34M	19.015M	21.01M	19.015M
6195MHz	Pass	Inf	21.065M	19.065M	21.23M	19.015M
6415MHz	Pass	Inf	21.285M	19.015M	21.23M	19.015M
6435MHz	Pass	Inf	21.285M	19.015M	21.505M	19.015M
6475MHz	Pass	Inf	21.12M	19.04M	20.845M	19.04M
6515MHz	Pass	Inf	21.34M	19.015M	21.12M	19.04M
6535MHz	Pass	Inf	21.285M	19.065M	21.285M	19.015M
6695MHz	Pass	Inf	21.23M	18.966M	21.395M	19.015M
6875MHz	Pass	Inf	21.285M	19.015M	21.175M	19.04M
6895MHz	Pass	Inf	21.615M	18.966M	21.01M	18.941M
6995MHz	Pass	Inf	21.395M	19.015M	21.34M	18.966M
7095MHz	Pass	Inf	21.45M	18.991M	21.34M	18.966M
7115MHz	Pass	Inf	21.285M	19.04M	21.12M	19.015M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	39.71M	37.581M	39.49M	37.681M
6205MHz	Pass	Inf	39.6M	37.631M	39.6M	37.731M
6405MHz	Pass	Inf	39.49M	37.631M	39.38M	37.681M
6445MHz	Pass	Inf	39.93M	37.781M	39.82M	37.681M
6485MHz	Pass	Inf	40.04M	37.631M	40.26M	37.731M
6525MHz	Pass	Inf	40.04M	37.681M	40.04M	37.731M
6565MHz	Pass	Inf	39.82M	37.681M	39.71M	37.731M
6685MHz	Pass	Inf	39.27M	37.631M	39.49M	37.631M
6885MHz	Pass	Inf	40.15M	37.781M	40.04M	37.731M
6925MHz	Pass	Inf	40.04M	37.681M	40.48M	37.781M
7005MHz	Pass	Inf	40.37M	37.731M	40.48M	37.731M
7085MHz	Pass	Inf	40.04M	37.681M	40.26M	37.631M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	80.3M	76.762M	80.3M	76.962M
6225MHz	Pass	Inf	80.96M	77.061M	80.96M	77.161M
6385MHz	Pass	Inf	81.18M	76.962M	81.62M	76.962M
6465MHz	Pass	Inf	80.74M	77.061M	81.62M	76.962M
6545MHz	Pass	Inf	80.96M	76.962M	80.52M	77.061M
6625MHz	Pass	Inf	86.24M	77.461M	80.74M	77.261M
6705MHz	Pass	Inf	90.86M	77.061M	81.62M	77.261M
6785MHz	Pass	Inf	81.4M	77.161M	82.06M	77.261M
6865MHz	Pass	Inf	81.18M	77.461M	81.62M	77.061M
6945MHz	Pass	Inf	81.4M	76.762M	80.74M	77.061M
7025MHz	Pass	Inf	81.18M	77.361M	81.18M	77.261M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	184.8M	156.122M	186.56M	155.722M
6185MHz	Pass	Inf	165M	156.122M	163.24M	156.722M
6345MHz	Pass	Inf	163.24M	156.122M	162.36M	156.322M
6505MHz	Pass	Inf	163.24M	156.322M	164.12M	156.522M
6665MHz	Pass	Inf	219.56M	157.121M	173.8M	156.522M
6825MHz	Pass	Inf	163.68M	156.722M	163.68M	156.722M



EBW_Beamforming_Radio 3

Appendix B.4

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
6985MHz	Pass	Inf	178.64M	156.122M	180.4M	155.922M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	326.48M	318.241M	324.72M	315.442M
6265MHz	Pass	Inf	381.04M	315.042M	341.44M	314.643M
6425MHz	Pass	Inf	324.72M	315.442M	339.68M	315.842M
6585MHz	Pass	Inf	339.68M	316.242M	353.76M	315.842M
6745MHz	Pass	Inf	360.8M	316.642M	326.48M	316.242M
6905MHz	Pass	Inf	385.44M	313.043M	363.44M	313.443M

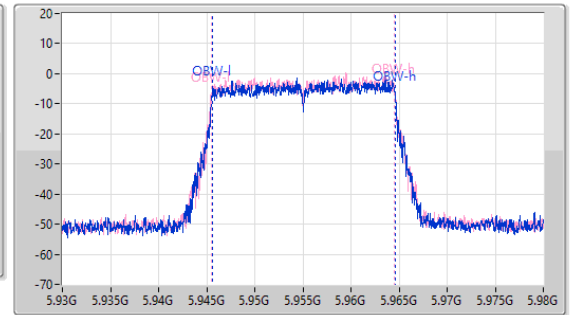
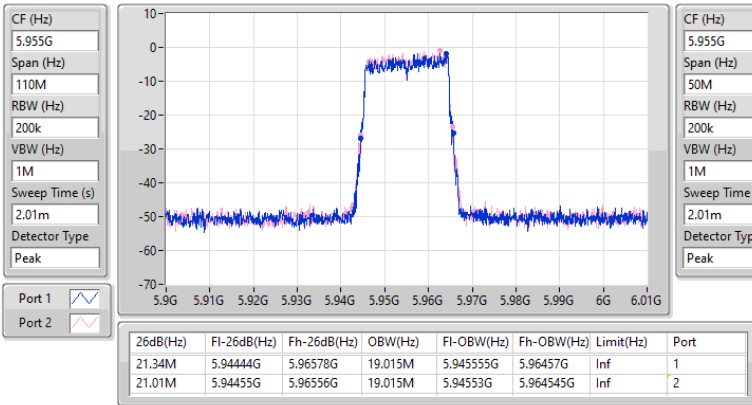
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

5955MHz

24/02/2025

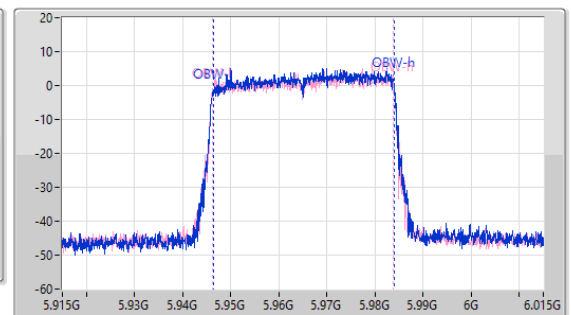
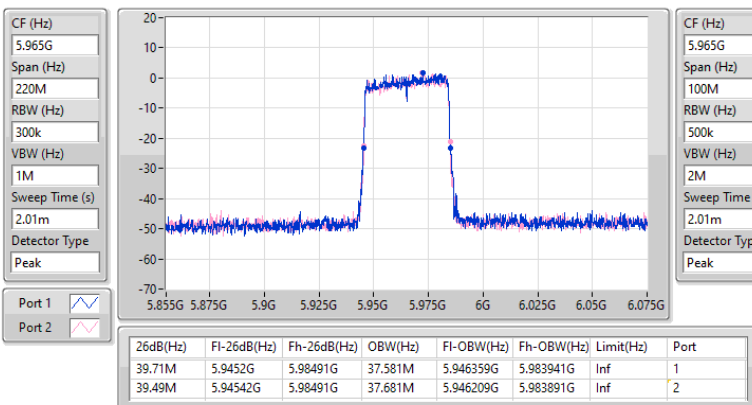


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

5965MHz

24/02/2025

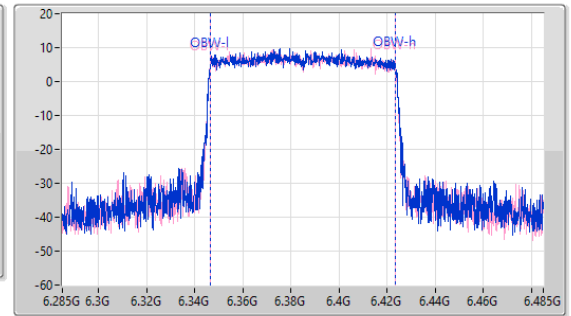
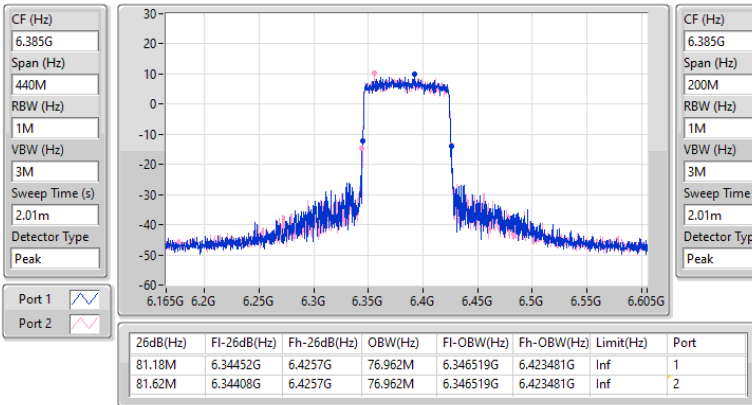


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6385MHz

24/02/2025

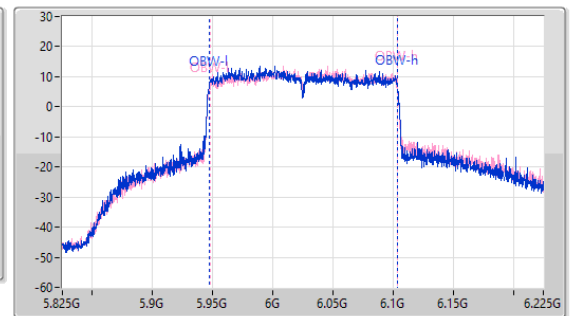
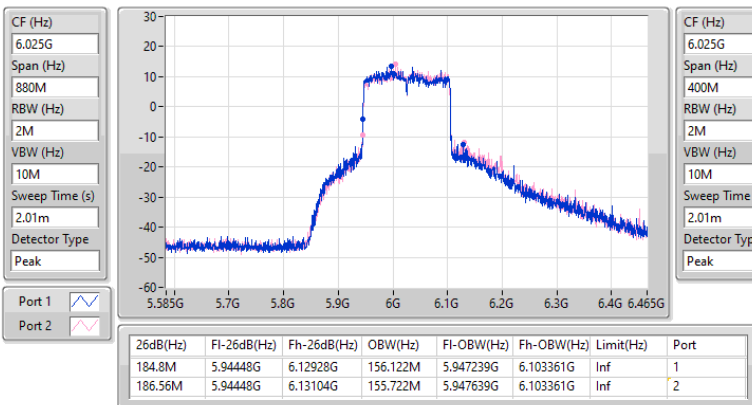


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6025MHz

24/02/2025

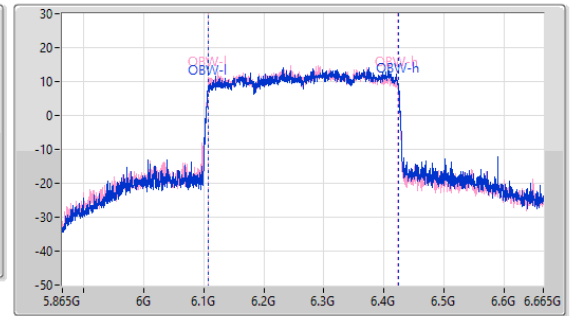
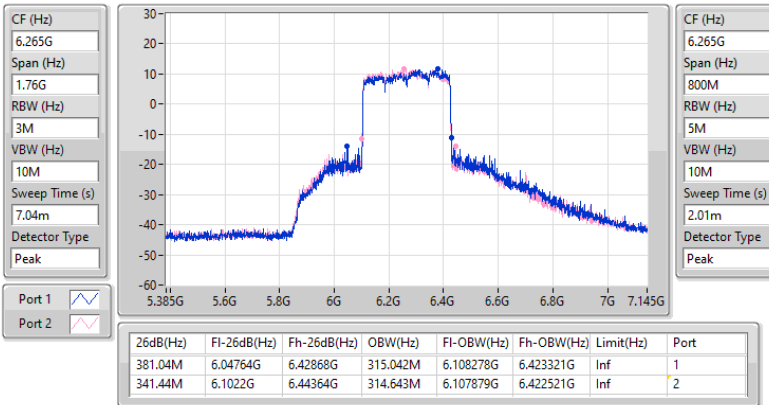


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6265MHz

24/02/2025

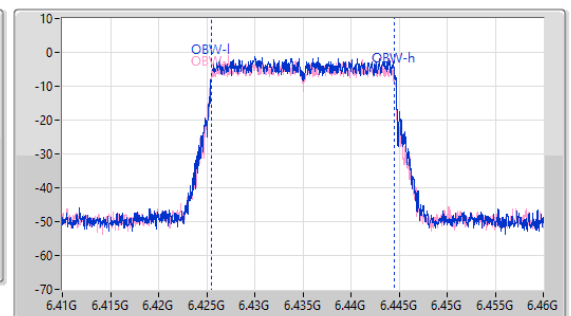
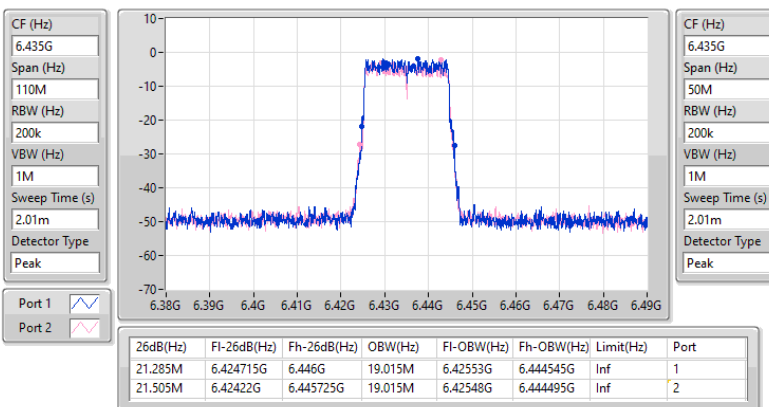


6.425-6.525GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6435MHz

24/02/2025

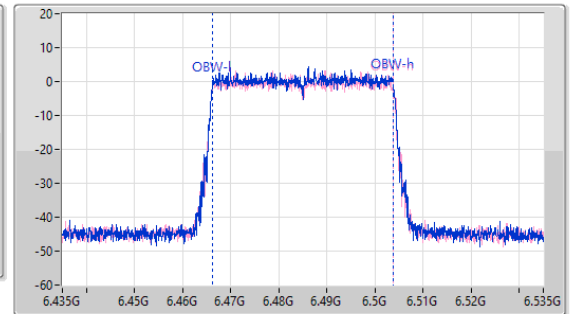
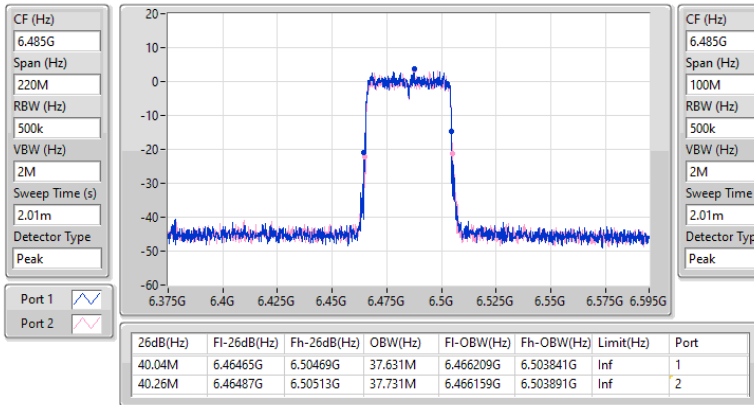


6.425-6.525GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6485MHz

24/02/2025

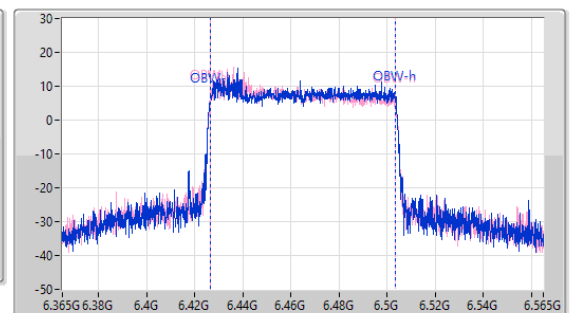
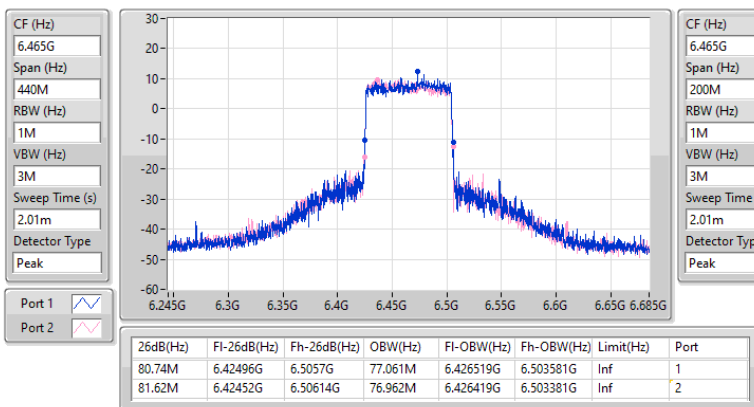


6.425-6.525GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6465MHz

24/02/2025

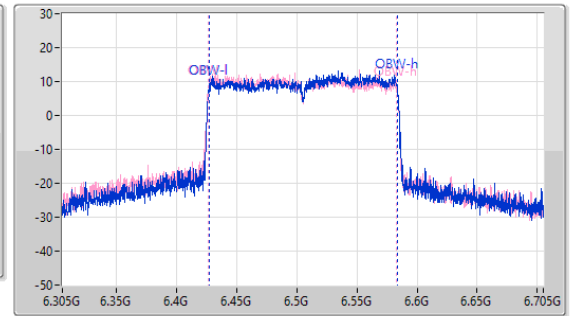
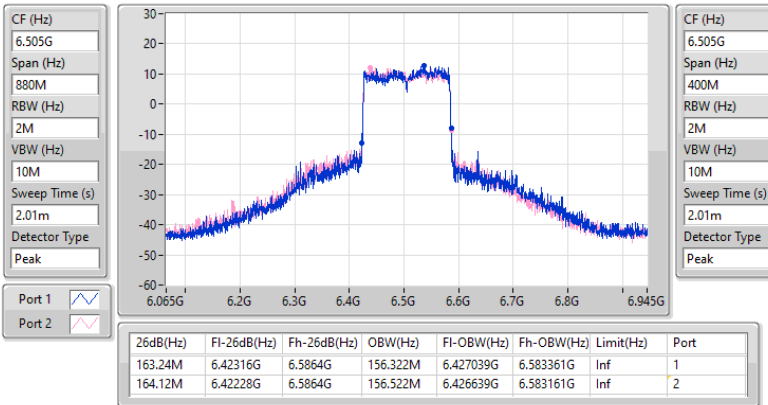


6.425-6.525GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6505MHz

24/02/2025

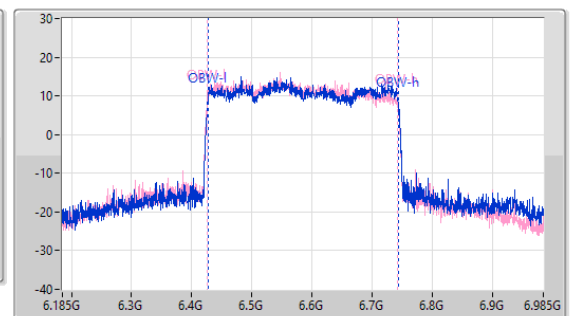
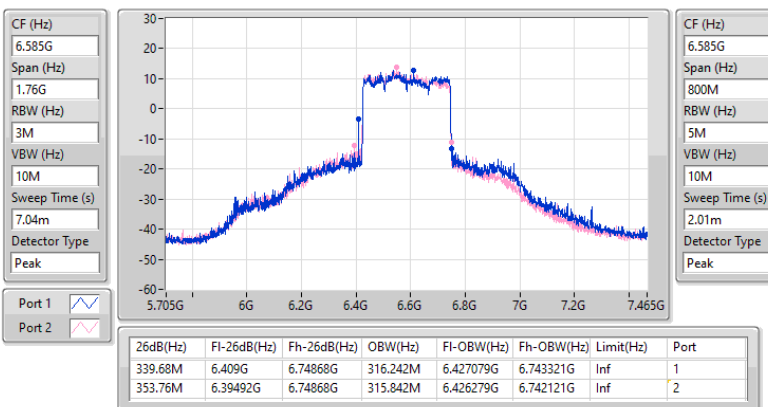


6.425-6.525GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6585MHz

24/02/2025

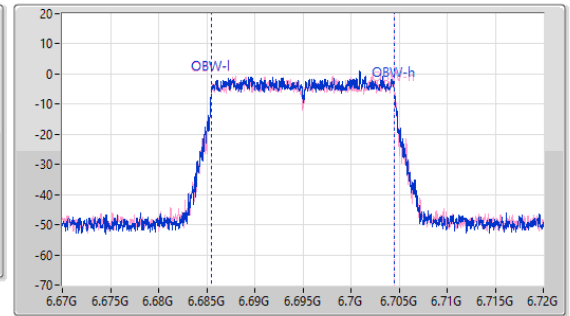
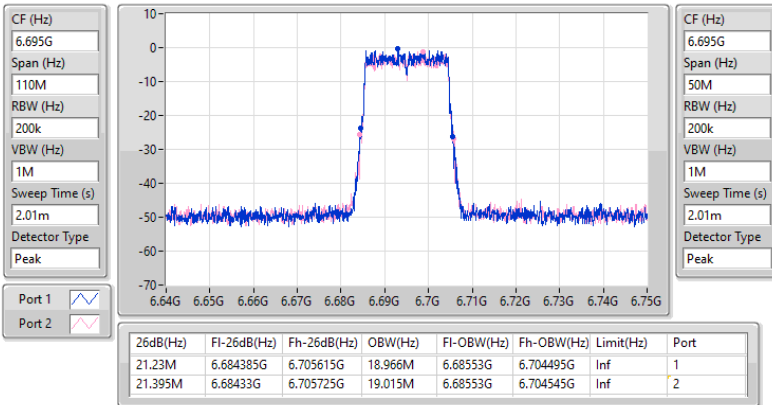


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6695MHz

24/02/2025

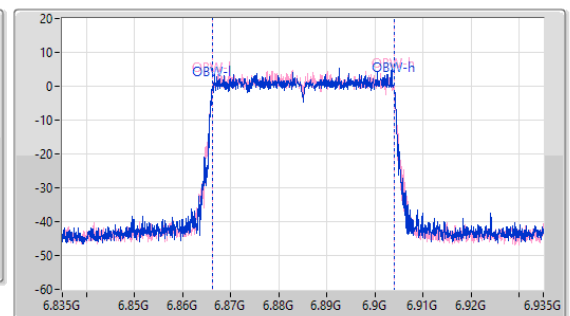
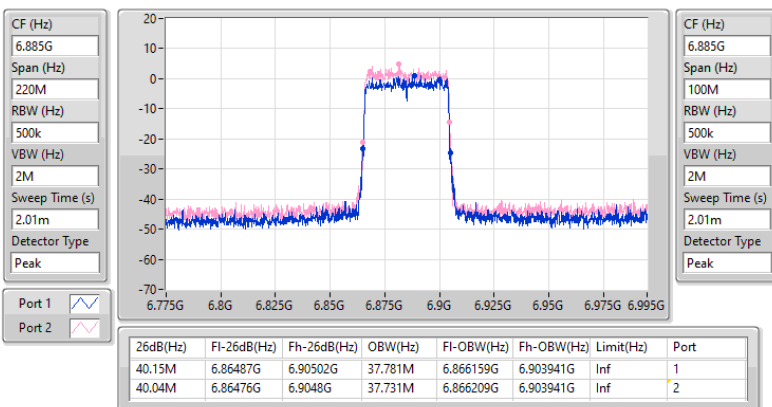


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6885MHz

24/02/2025

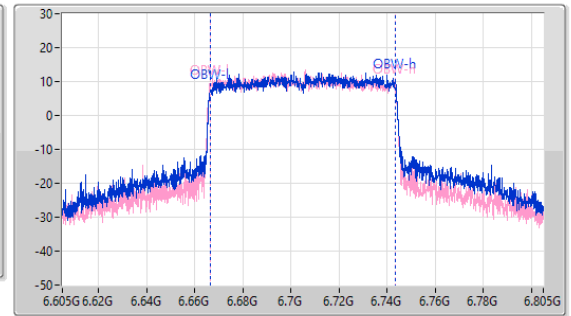
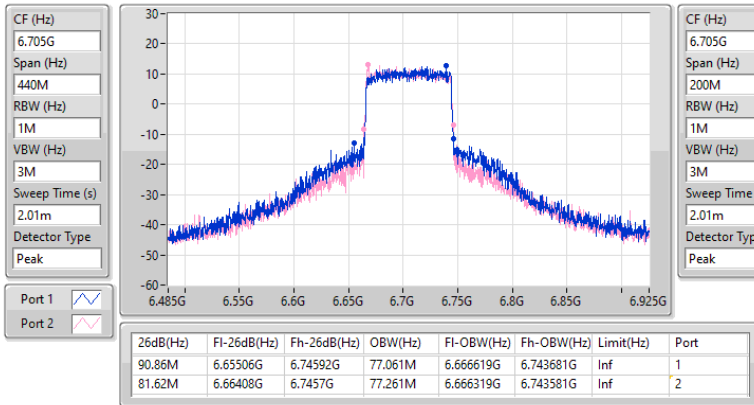


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6705MHz

24/02/2025

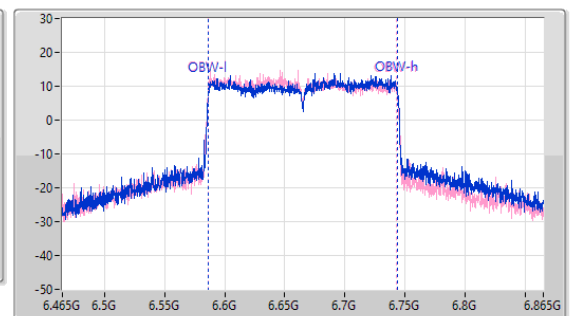
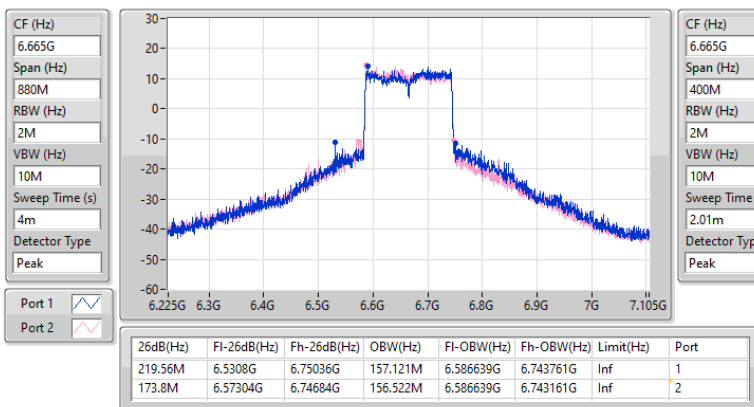


6.525-6.875GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6665MHz

24/02/2025

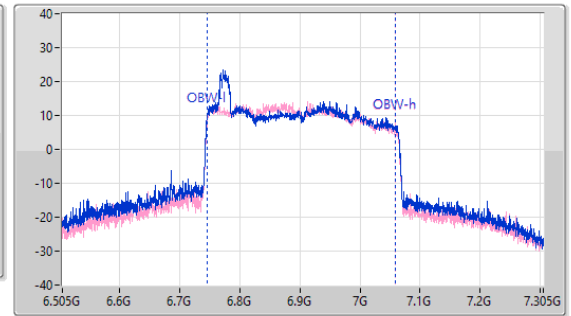
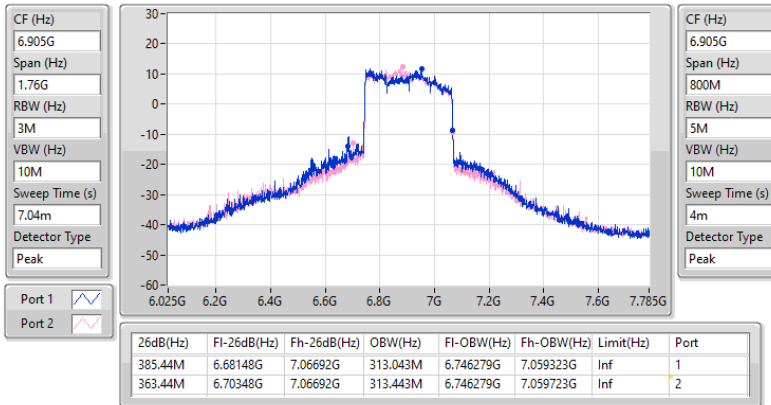


6.525-6.875GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6905MHz

24/02/2025

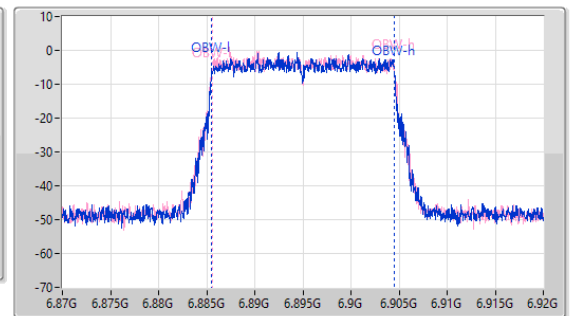
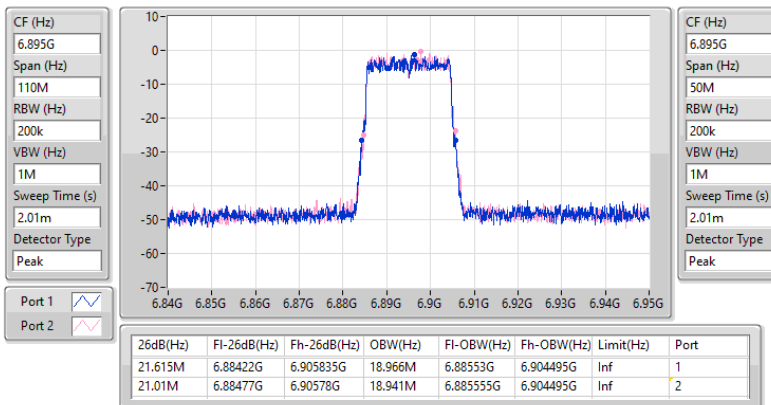


6.875-7.125GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6895MHz

24/02/2025

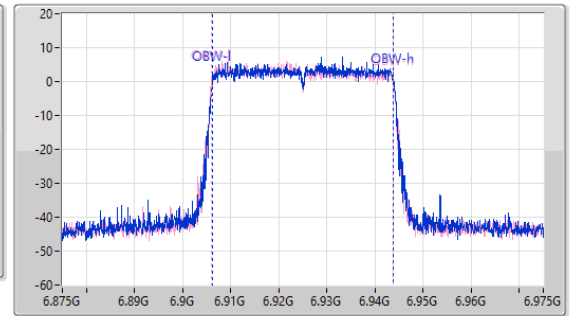
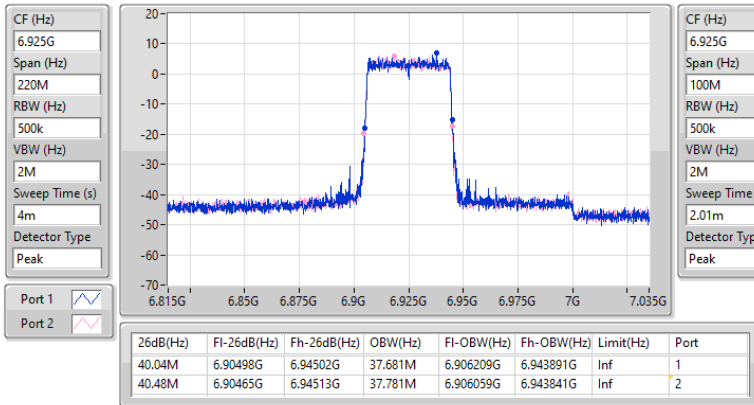


6.875-7.125GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6925MHz

24/02/2025

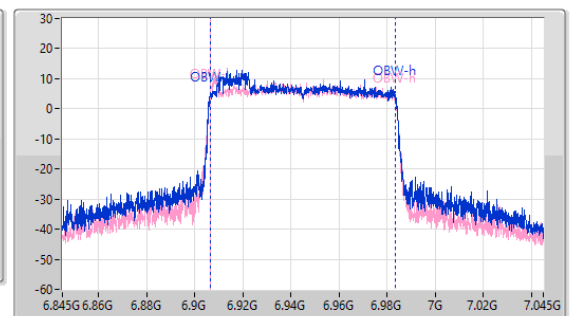
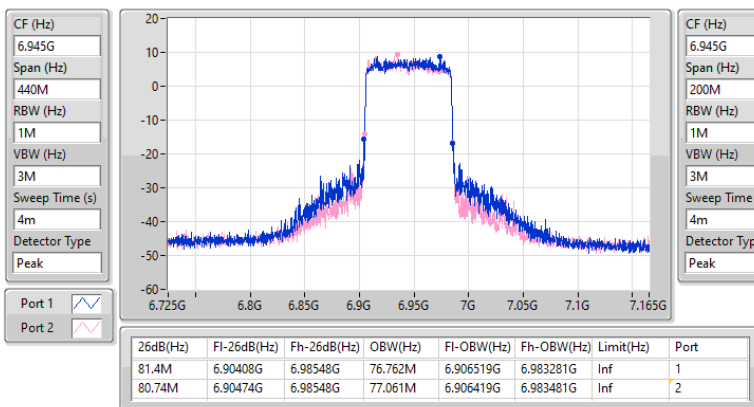


6.875-7.125GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6945MHz

24/02/2025

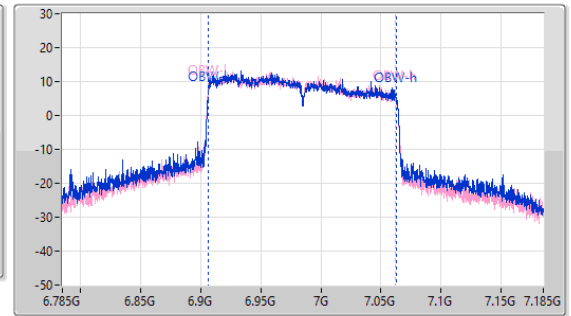
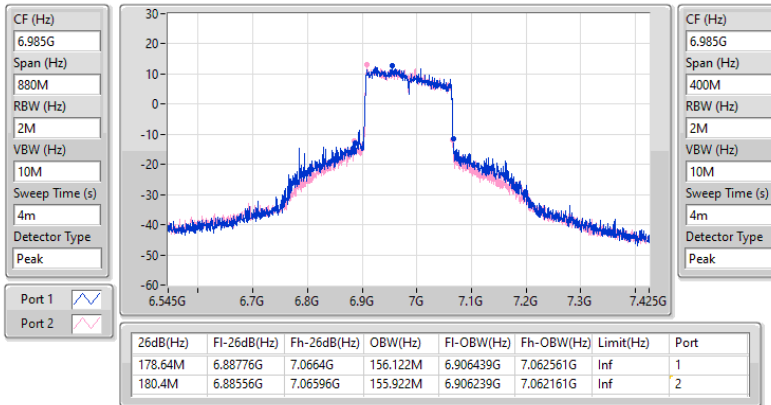


6.875-7.125GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6985MHz

24/02/2025



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
a20_Nss1,(6Mbps)_1TX	21.285M	16.592M	16M6D1D	20.625M	16.517M
a40_Nss1,(6Mbps)_1TX	72.38M	36.782M	36M8D1D	60.28M	36.482M
a80_Nss1,(6Mbps)_1TX	188.32M	77.061M	77M1D1D	129.58M	76.162M
a160_Nss1,(6Mbps)_1TX	318.56M	234.083M	234MD1D	281.16M	155.522M
6.425-6.525GHz	-	-	-	-	-
a20_Nss1,(6Mbps)_1TX	21.065M	16.617M	16M6D1D	20.35M	16.542M
a40_Nss1,(6Mbps)_1TX	50.49M	36.482M	36M5D1D	39.27M	36.332M
a80_Nss1,(6Mbps)_1TX	163.46M	76.462M	76M5D1D	91.52M	76.162M
a160_Nss1,(6Mbps)_1TX	312.4M	159.32M	159MD1D	312.4M	159.32M
6.525-6.875GHz	-	-	-	-	-
a20_Nss1,(6Mbps)_1TX	20.9M	16.642M	16M6D1D	20.79M	16.592M
a40_Nss1,(6Mbps)_1TX	64.79M	36.682M	36M7D1D	53.68M	36.482M
a80_Nss1,(6Mbps)_1TX	173.58M	76.562M	76M6D1D	116.82M	76.362M
a160_Nss1,(6Mbps)_1TX	318.56M	175.112M	175MD1D	314.6M	173.313M
6.875-7.125GHz	-	-	-	-	-
a20_Nss1,(6Mbps)_1TX	21.175M	16.692M	16M7D1D	20.68M	16.542M
a40_Nss1,(6Mbps)_1TX	57.75M	36.832M	36M8D1D	55.11M	36.582M
a80_Nss1,(6Mbps)_1TX	166.98M	83.758M	83M8D1D	166.32M	76.662M
a160_Nss1,(6Mbps)_1TX	295.24M	154.723M	155MD1D	295.24M	154.723M

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)
a20_Nss1,(6Mbps)_1TX	-	-	-	-
5955MHz	Pass	Inf	20.625M	16.567M
6195MHz	Pass	Inf	20.625M	16.592M
6415MHz	Pass	Inf	21.285M	16.517M
6435MHz	Pass	Inf	20.625M	16.567M
6475MHz	Pass	Inf	20.35M	16.542M
6515MHz	Pass	Inf	21.065M	16.617M
6535MHz	Pass	Inf	20.79M	16.642M
6695MHz	Pass	Inf	20.79M	16.592M
6875MHz	Pass	Inf	20.9M	16.592M
6895MHz	Pass	Inf	20.68M	16.642M
6995MHz	Pass	Inf	20.79M	16.542M
7095MHz	Pass	Inf	20.9M	16.692M
7115MHz	Pass	Inf	21.175M	16.692M
a40_Nss1,(6Mbps)_1TX	-	-	-	-
5965MHz	Pass	Inf	72.38M	36.782M
6205MHz	Pass	Inf	70.84M	36.582M
6405MHz	Pass	Inf	60.28M	36.482M
6445MHz	Pass	Inf	43.45M	36.382M
6485MHz	Pass	Inf	50.49M	36.482M
6525MHz	Pass	Inf	39.27M	36.332M
6565MHz	Pass	Inf	53.68M	36.482M
6685MHz	Pass	Inf	56.54M	36.532M
6885MHz	Pass	Inf	64.79M	36.682M
6925MHz	Pass	Inf	55.11M	36.582M
7005MHz	Pass	Inf	56.76M	36.832M
7085MHz	Pass	Inf	57.75M	36.632M
a80_Nss1,(6Mbps)_1TX	-	-	-	-
5985MHz	Pass	Inf	129.58M	76.162M
6225MHz	Pass	Inf	133.98M	76.562M
6385MHz	Pass	Inf	188.32M	77.061M
6465MHz	Pass	Inf	91.52M	76.162M
6545MHz	Pass	Inf	163.46M	76.462M
6625MHz	Pass	Inf	134.64M	76.362M
6705MHz	Pass	Inf	116.82M	76.362M
6785MHz	Pass	Inf	173.58M	76.562M
6865MHz	Pass	Inf	149.82M	76.562M
6945MHz	Pass	Inf	166.32M	76.662M
7025MHz	Pass	Inf	166.98M	83.758M
a160_Nss1,(6Mbps)_1TX	-	-	-	-
6025MHz	Pass	Inf	281.16M	155.522M
6185MHz	Pass	Inf	318.12M	234.083M
6345MHz	Pass	Inf	318.56M	228.686M
6505MHz	Pass	Inf	312.4M	159.32M
6665MHz	Pass	Inf	318.56M	173.313M
6825MHz	Pass	Inf	314.6M	175.112M
6985MHz	Pass	Inf	295.24M	154.723M

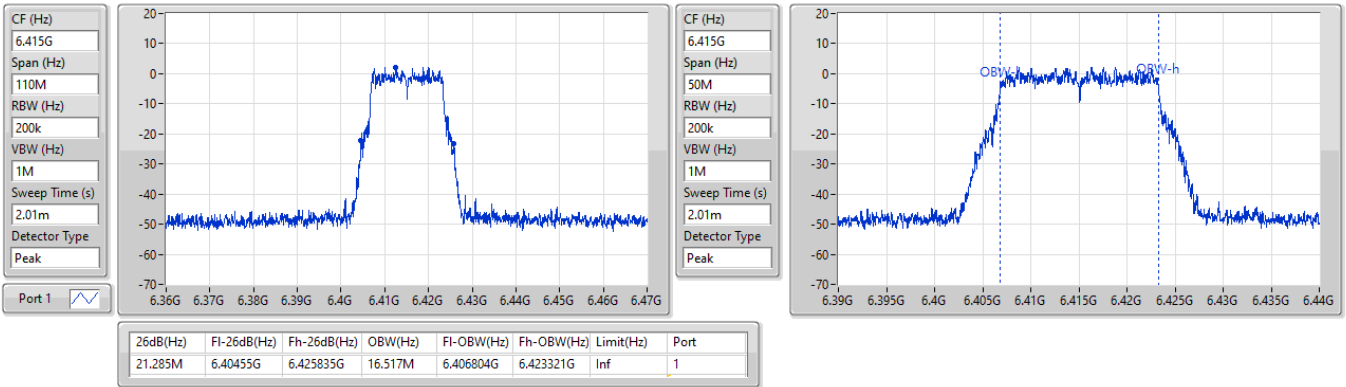
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_a20_Nss1,(6Mbps)_1TX

EBW

6415MHz

18/01/2025

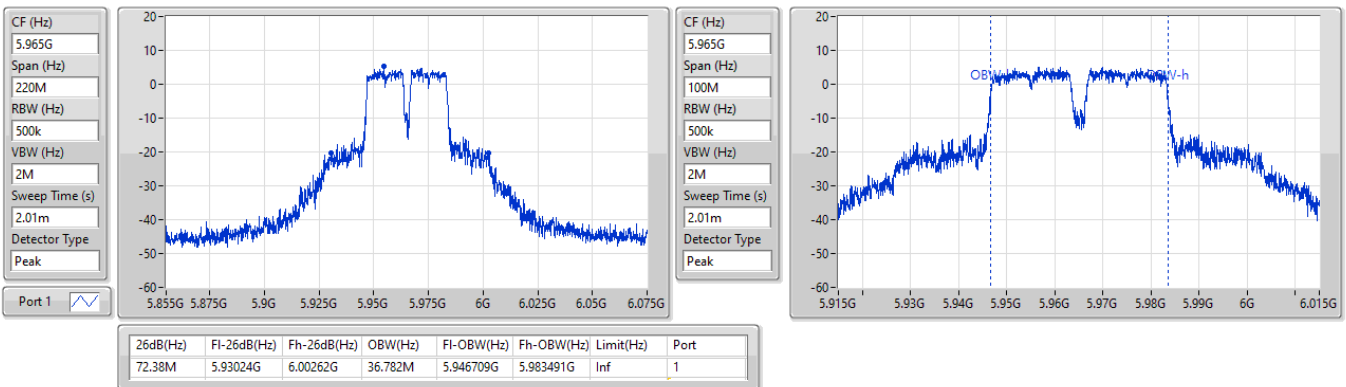


5.925-6.425GHz_a40_Nss1,(6Mbps)_1TX

EBW

5965MHz

18/01/2025

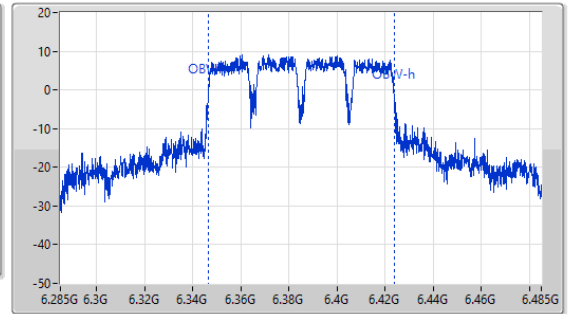
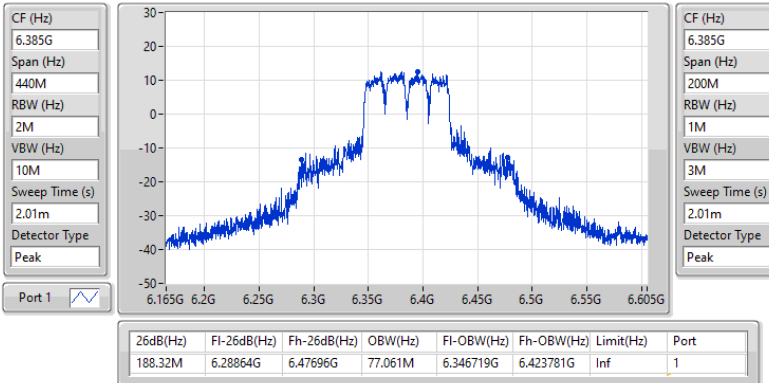


5.925-6.425GHz_a80_Nss1,(6Mbps)_1TX

EBW

6385MHz

18/01/2025

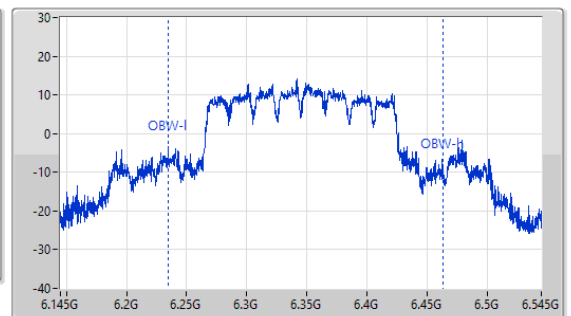
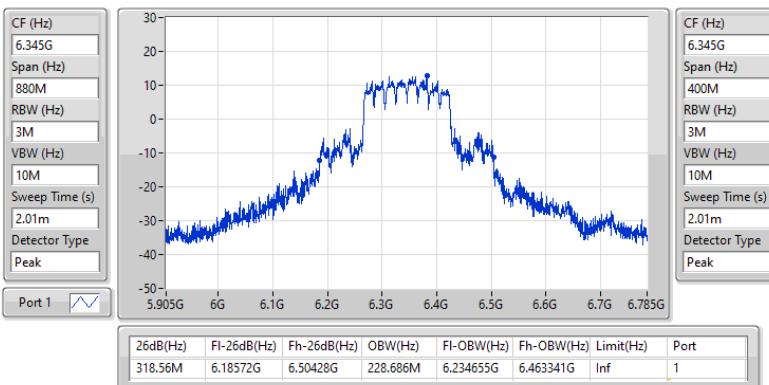


5.925-6.425GHz_a160_Nss1,(6Mbps)_1TX

EBW

6345MHz

18/01/2025

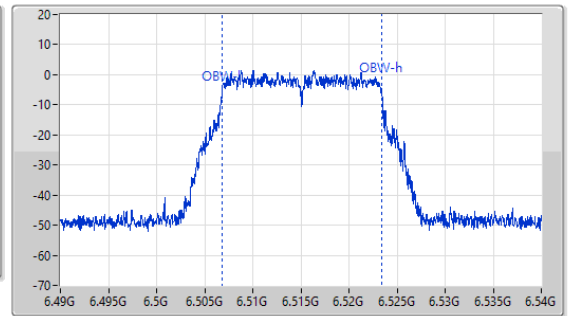
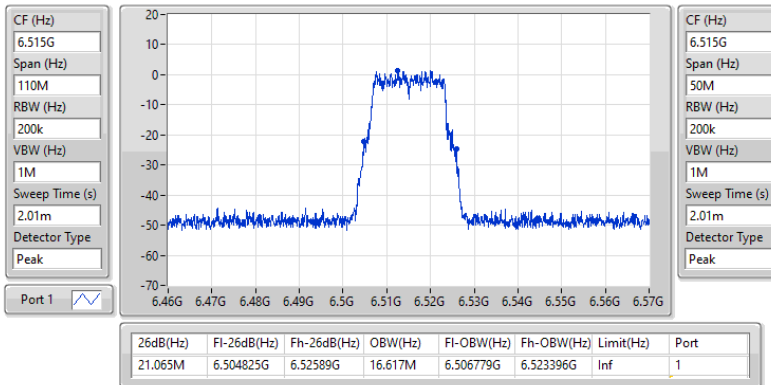


6.425-6.525GHz_a20_Nss1,(6Mbps)_1TX

EBW

6515MHz

18/01/2025

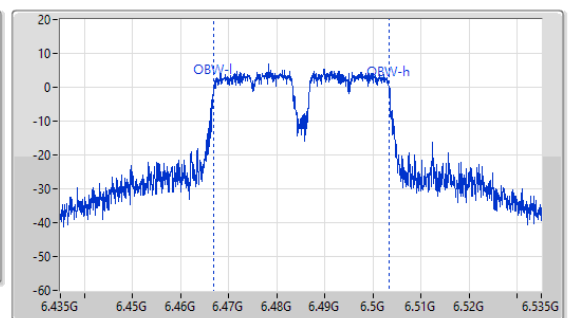
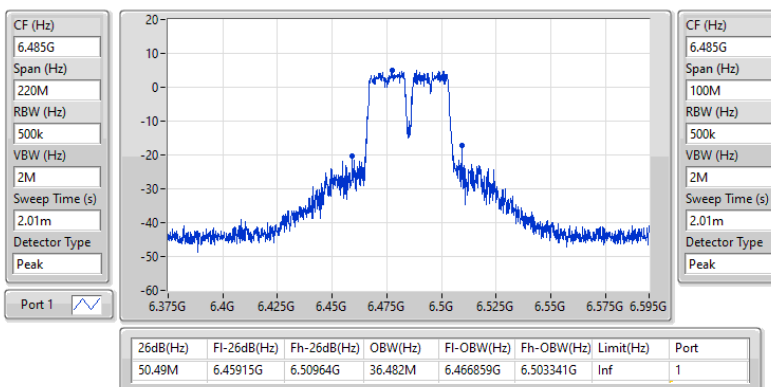


6.425-6.525GHz_a40_Nss1,(6Mbps)_1TX

EBW

6485MHz

18/01/2025

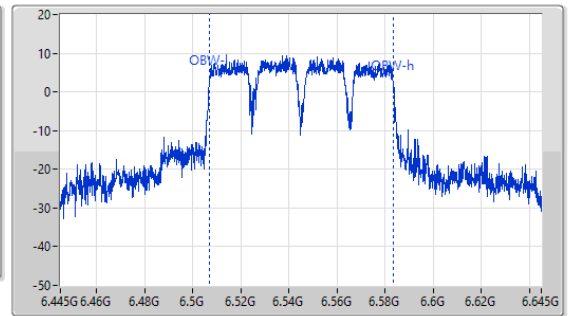
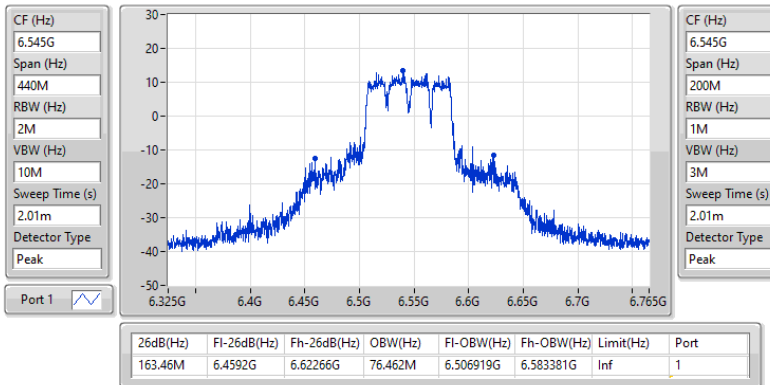


6.425-6.525GHz_a80_Nss1,(6Mbps)_1TX

EBW

6545MHz

18/01/2025

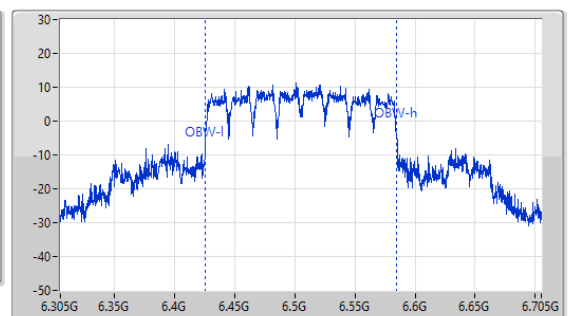
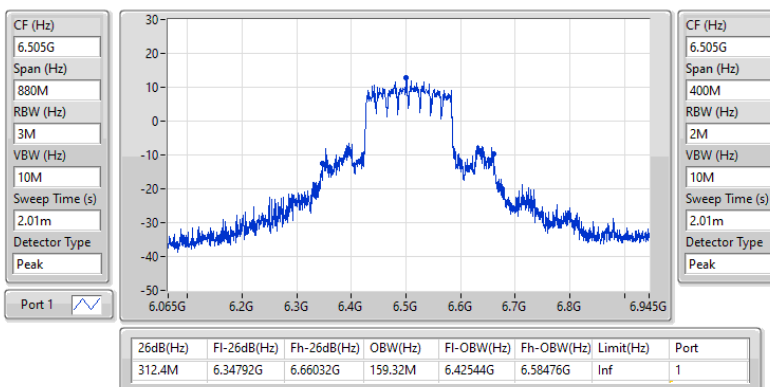


6.425-6.525GHz_a160_Nss1,(6Mbps)_1TX

EBW

6505MHz

18/01/2025

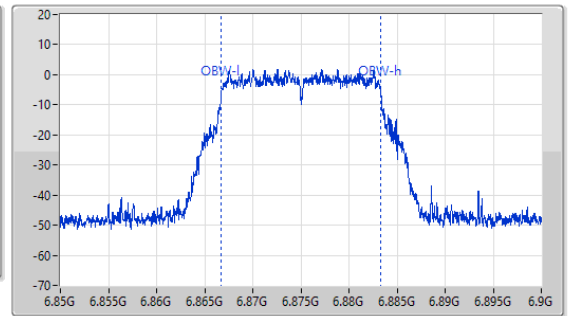
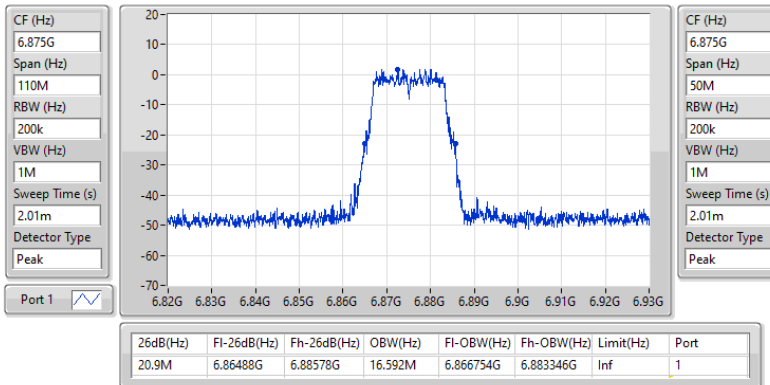


6.525-6.875GHz_a20_Nss1,(6Mbps)_1TX

EBW

6875MHz

18/01/2025

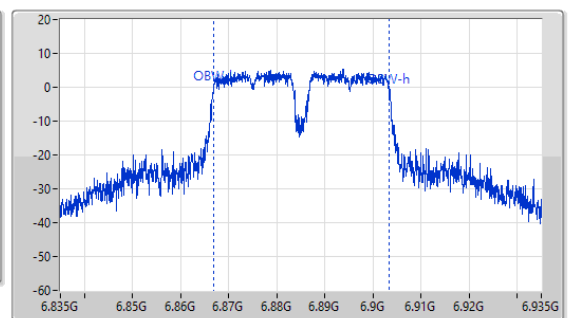
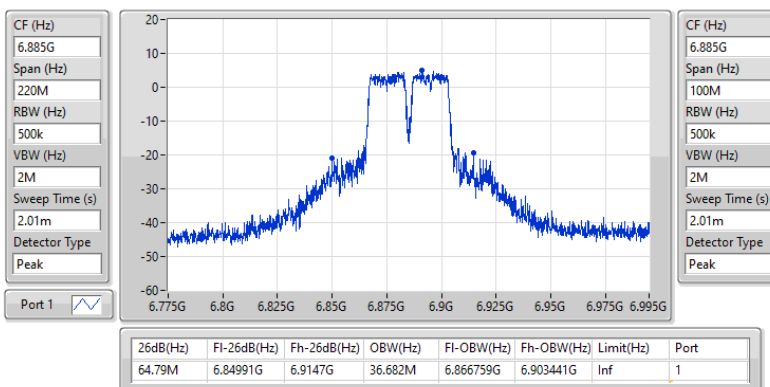


6.525-6.875GHz_a40_Nss1,(6Mbps)_1TX

EBW

6885MHz

18/01/2025

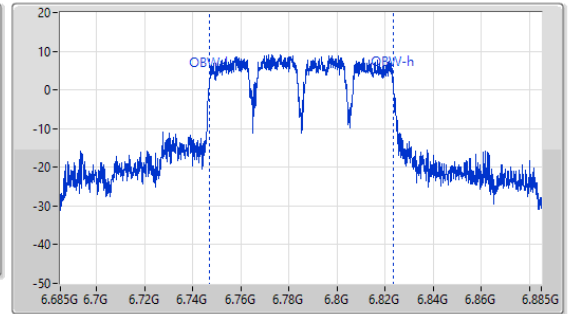
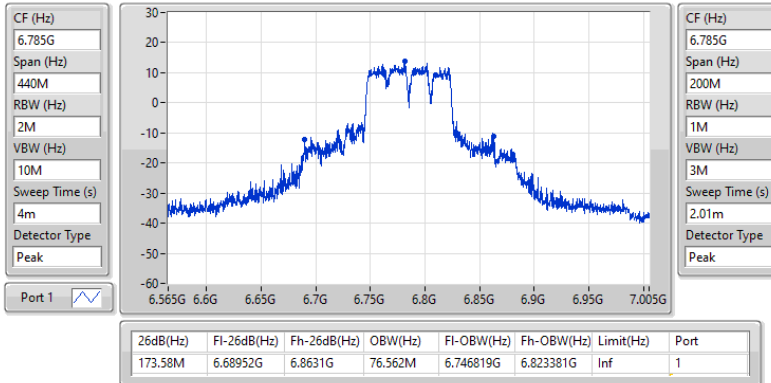


6.525-6.875GHz_a80_Nss1,(6Mbps)_1TX

EBW

6785MHz

18/01/2025

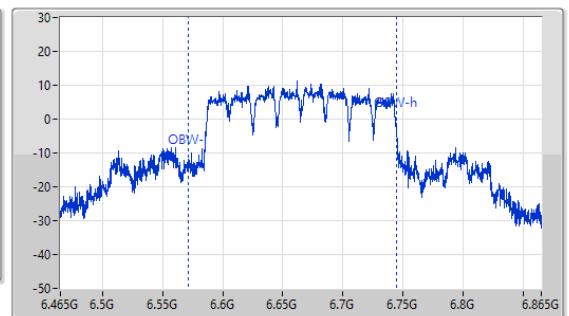
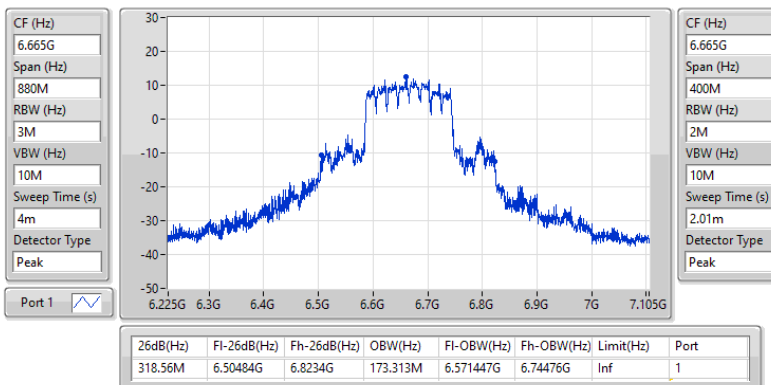


6.525-6.875GHz_a160_Nss1,(6Mbps)_1TX

EBW

6665MHz

18/01/2025

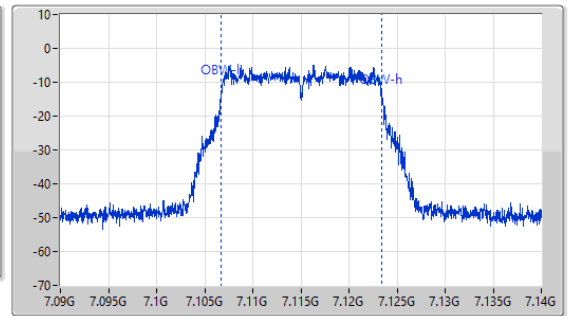
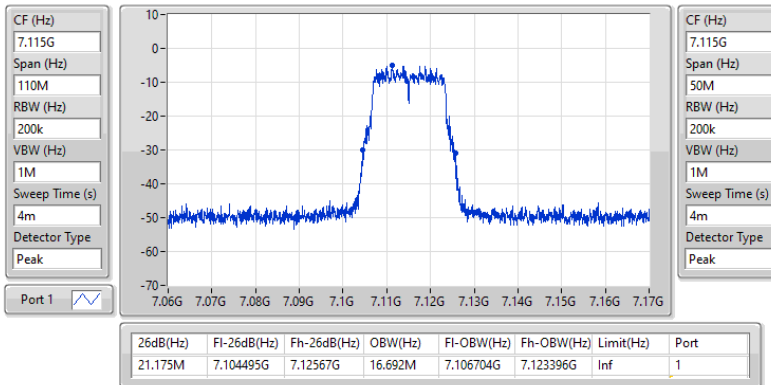


6.875-7.125GHz_a20_Nss1,(6Mbps)_1TX

EBW

7115MHz

18/01/2025

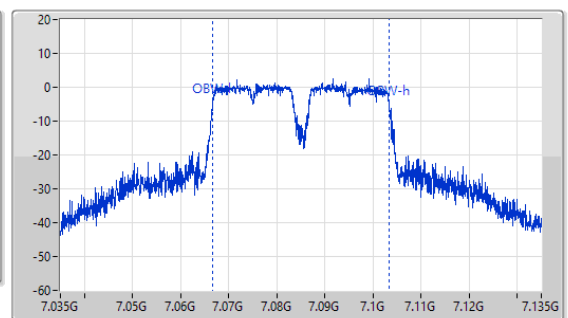
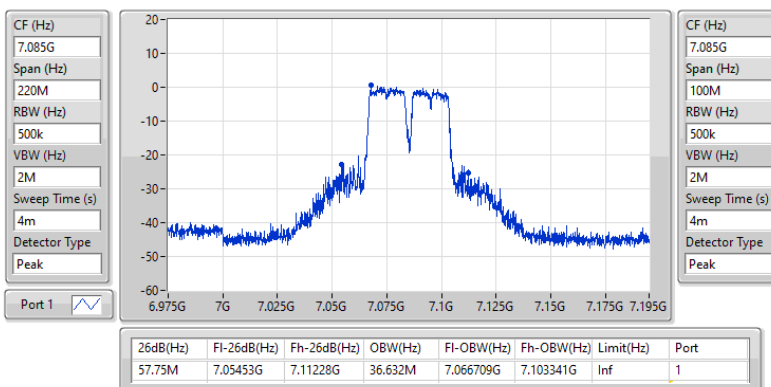


6.875-7.125GHz_a40_Nss1,(6Mbps)_1TX

EBW

7085MHz

18/01/2025

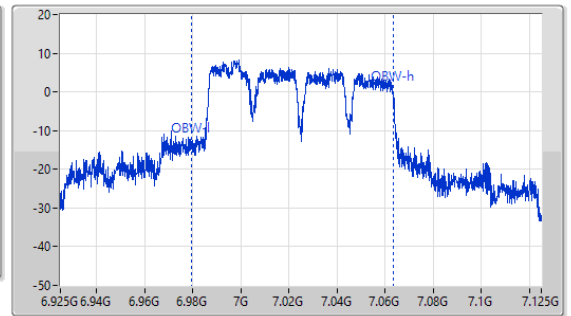
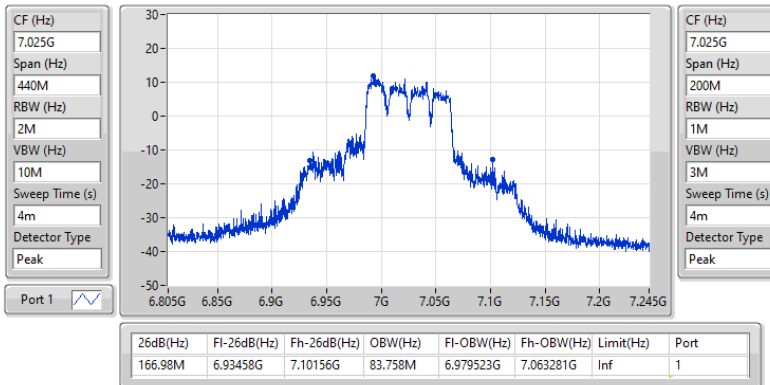


6.875-7.125GHz_a80_Nss1,(6Mbps)_1TX

EBW

7025MHz

18/01/2025

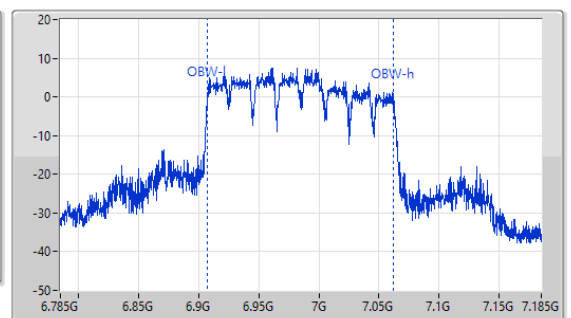
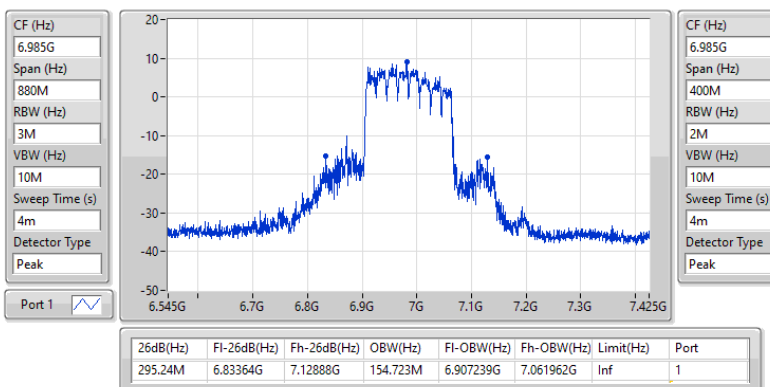


6.875-7.125GHz_a160_Nss1,(6Mbps)_1TX

EBW

6985MHz

18/01/2025



Summary

Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	17.55	0.05689
802.11be EHT20_Nss1,(MCS0)_1TX	17.93	0.06209
802.11be EHT40_Nss1,(MCS0)_1TX	20.82	0.12078
802.11be EHT80_Nss1,(MCS0)_1TX	23.60	0.22909
802.11be EHT160_Nss1,(MCS0)_1TX	22.56	0.18030
802.11be EHT320_Nss1,(MCS0)_1TX	21.37	0.13709
6.425-6.525GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	17.54	0.05675
802.11be EHT20_Nss1,(MCS0)_1TX	18.01	0.06324
802.11be EHT40_Nss1,(MCS0)_1TX	20.87	0.12218
802.11be EHT80_Nss1,(MCS0)_1TX	22.19	0.16558
802.11be EHT160_Nss1,(MCS0)_1TX	21.84	0.15276
802.11be EHT320_Nss1,(MCS0)_1TX	21.23	0.13274
6.525-6.875GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	17.57	0.05715
802.11be EHT20_Nss1,(MCS0)_1TX	18.38	0.06887
802.11be EHT40_Nss1,(MCS0)_1TX	20.71	0.11776
802.11be EHT80_Nss1,(MCS0)_1TX	22.46	0.17620
802.11be EHT160_Nss1,(MCS0)_1TX	22.77	0.18923
802.11be EHT320_Nss1,(MCS0)_1TX	20.92	0.12359
6.875-7.125GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	17.65	0.05821
802.11be EHT20_Nss1,(MCS0)_1TX	17.83	0.06067
802.11be EHT40_Nss1,(MCS0)_1TX	20.80	0.12023
802.11be EHT80_Nss1,(MCS0)_1TX	22.42	0.17458
802.11be EHT160_Nss1,(MCS0)_1TX	21.80	0.15136

Result

Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-
5955MHz	Pass	17.06	30.00
6195MHz	Pass	17.19	30.00
6415MHz	Pass	17.55	30.00
6435MHz	Pass	17.53	30.00
6475MHz	Pass	17.46	30.00
6515MHz	Pass	17.54	30.00
6535MHz	Pass	17.57	30.00
6695MHz	Pass	17.27	30.00
6875MHz	Pass	17.51	30.00
6895MHz	Pass	17.59	30.00
6995MHz	Pass	17.24	30.00
7095MHz	Pass	17.65	30.00
7115MHz	Pass	11.02	30.00
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-
5955MHz	Pass	17.86	30.00
6195MHz	Pass	17.72	30.00
6415MHz	Pass	17.93	30.00
6435MHz	Pass	17.98	30.00
6475MHz	Pass	17.73	30.00
6515MHz	Pass	18.01	30.00
6535MHz	Pass	17.89	30.00
6695MHz	Pass	17.84	30.00
6875MHz	Pass	18.38	30.00
6895MHz	Pass	17.80	30.00
6995MHz	Pass	17.72	30.00
7095MHz	Pass	17.83	30.00
7115MHz	Pass	11.88	30.00
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-
5965MHz	Pass	20.53	30.00
6205MHz	Pass	20.39	30.00
6405MHz	Pass	20.82	30.00
6445MHz	Pass	20.00	30.00
6485MHz	Pass	20.87	30.00
6525MHz	Pass	20.67	30.00
6565MHz	Pass	20.27	30.00
6685MHz	Pass	20.05	30.00
6885MHz	Pass	20.71	30.00
6925MHz	Pass	20.80	30.00
7005MHz	Pass	20.56	30.00
7085MHz	Pass	18.48	30.00
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-
5985MHz	Pass	20.76	30.00
6225MHz	Pass	23.60	30.00
6385MHz	Pass	20.96	30.00
6465MHz	Pass	22.19	30.00
6545MHz	Pass	22.14	30.00
6625MHz	Pass	22.46	30.00
6705MHz	Pass	21.66	30.00
6785MHz	Pass	21.27	30.00
6865MHz	Pass	22.18	30.00
6945MHz	Pass	22.42	30.00
7025MHz	Pass	21.23	30.00
802.11be EHT160_Nss1,(MCS0)_1TX	-	-	-
6025MHz	Pass	20.97	30.00



Radiated EIRP_Non-Beamforming_Radio 3_1T1S

Appendix C.1

Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
6185MHz	Pass	22.56	30.00
6345MHz	Pass	22.19	30.00
6505MHz	Pass	21.84	30.00
6665MHz	Pass	22.77	30.00
6825MHz	Pass	21.63	30.00
6985MHz	Pass	21.80	30.00
802.11be EHT320_Nss1,(MCS0)_1TX	-	-	-
6105MHz	Pass	21.37	30.00
6265MHz	Pass	20.37	30.00
6425MHz	Pass	20.16	30.00
6585MHz	Pass	21.23	30.00
6745MHz	Pass	20.92	30.00
6905MHz	Pass	20.71	30.00

DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.

22/01/2025

EIRP;Band:6.2G;11a;BWch:20MHz;Nss:1,(6D);Nant:1;Ch:6415MHz;TX

CF Freq
6.415GHz

Span
50MHz

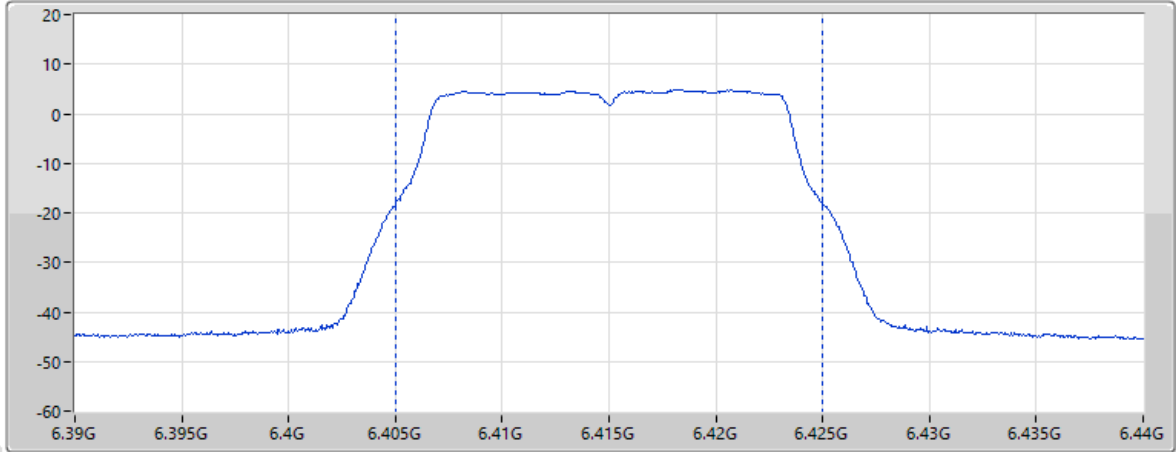
RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS

CP BW
20MHz



Page 7

EIRP (dBm)		EIRP=Pr+Lp [Lp Free Space Path Loss] Pr=Pmeas-Gr+Lc-Gamp		
17.55				
Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-3.79	11.50	9.04	34.39	58.19

22/01/2025

EIRP;Band:6.2G;be20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:6415MHz;TX

CF Freq
6.415GHz

Span
50MHz

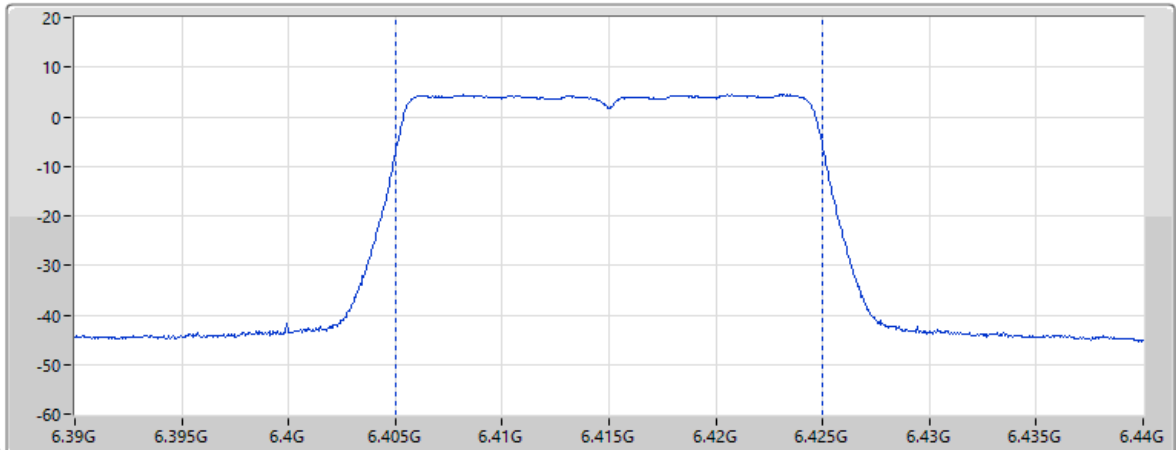
RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS

CP BW
20MHz

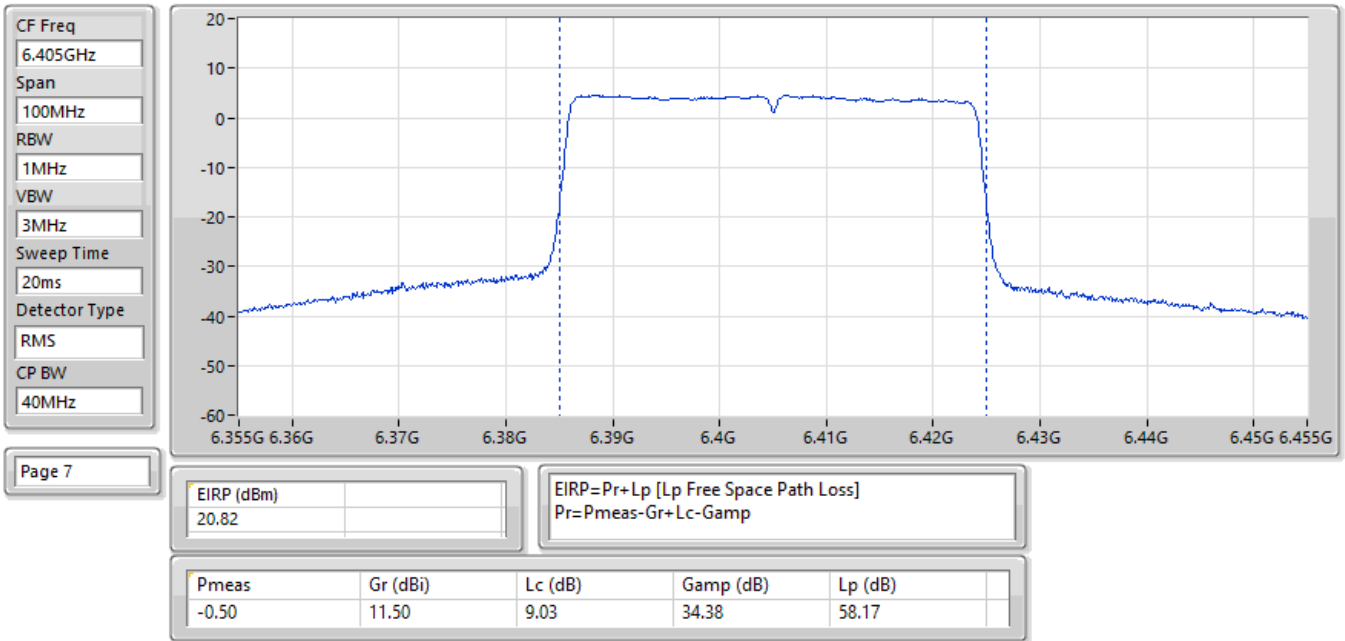


Page 7

EIRP (dBm)		EIRP=Pr+Lp [Lp Free Space Path Loss] Pr=Pmeas-Gr+Lc-Gamp		
17.93				
Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-3.41	11.50	9.04	34.39	58.19

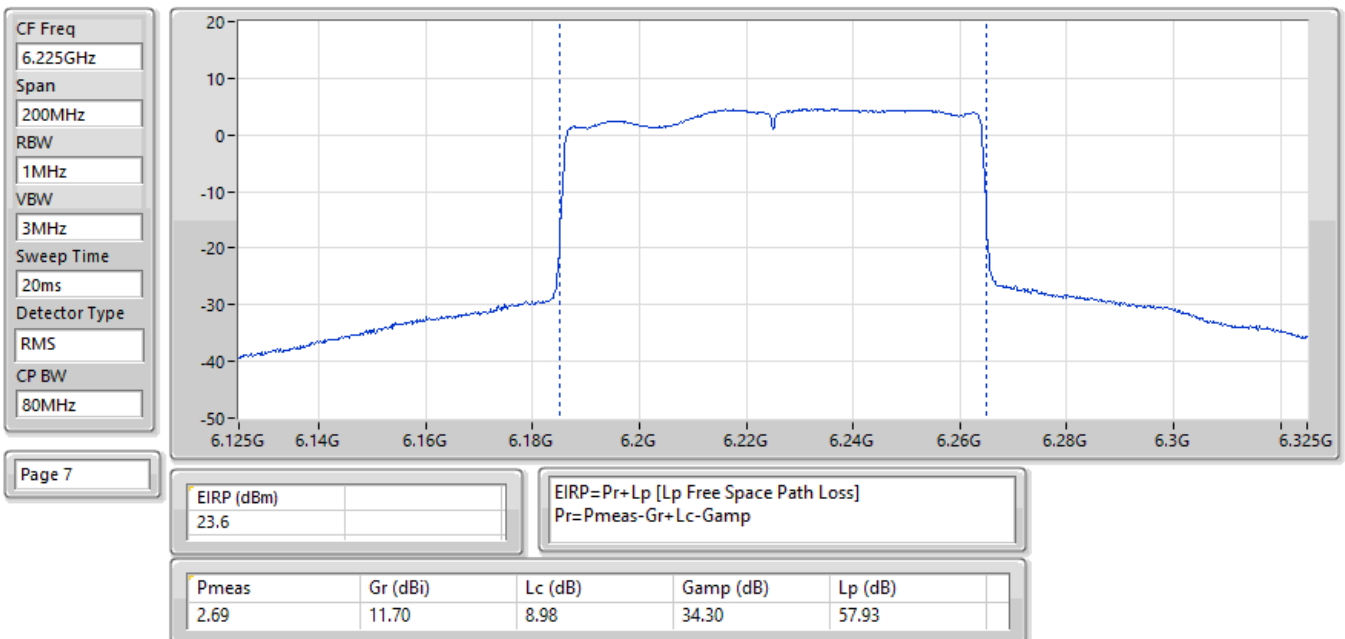
22/01/2025

EIRP;Band:6.2G;be40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:6405MHz;TX



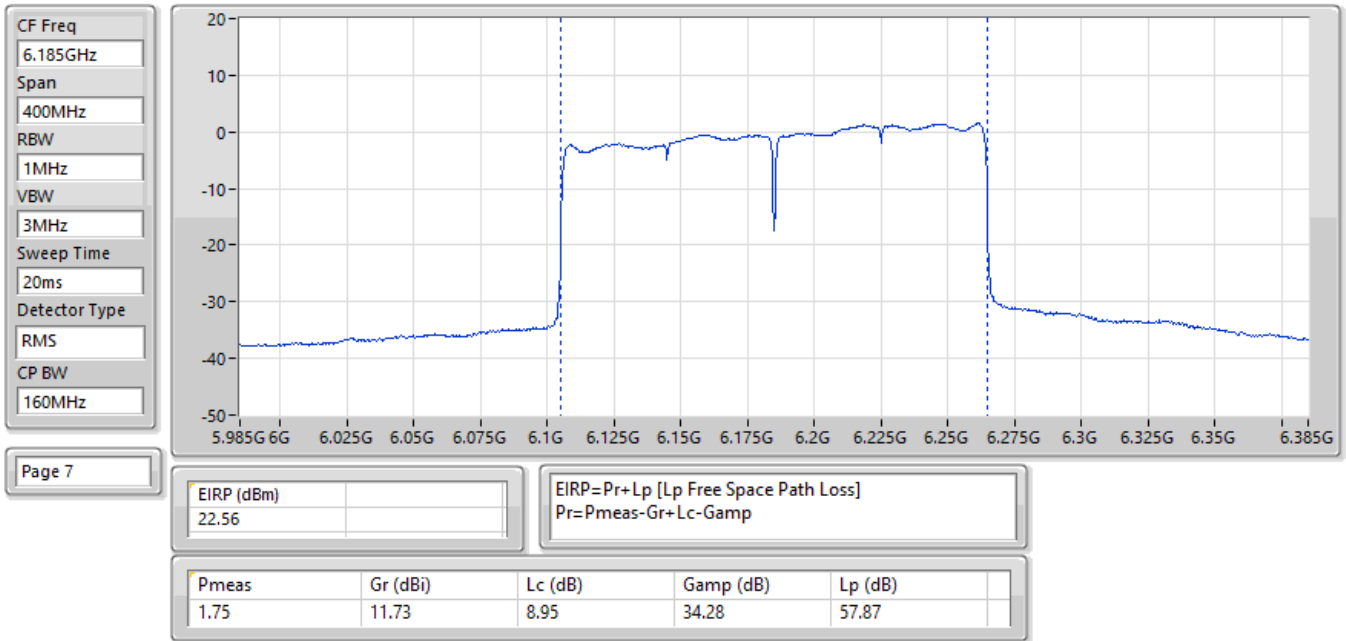
22/01/2025

EIRP;Band:6.2G;be80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:6225MHz;TX



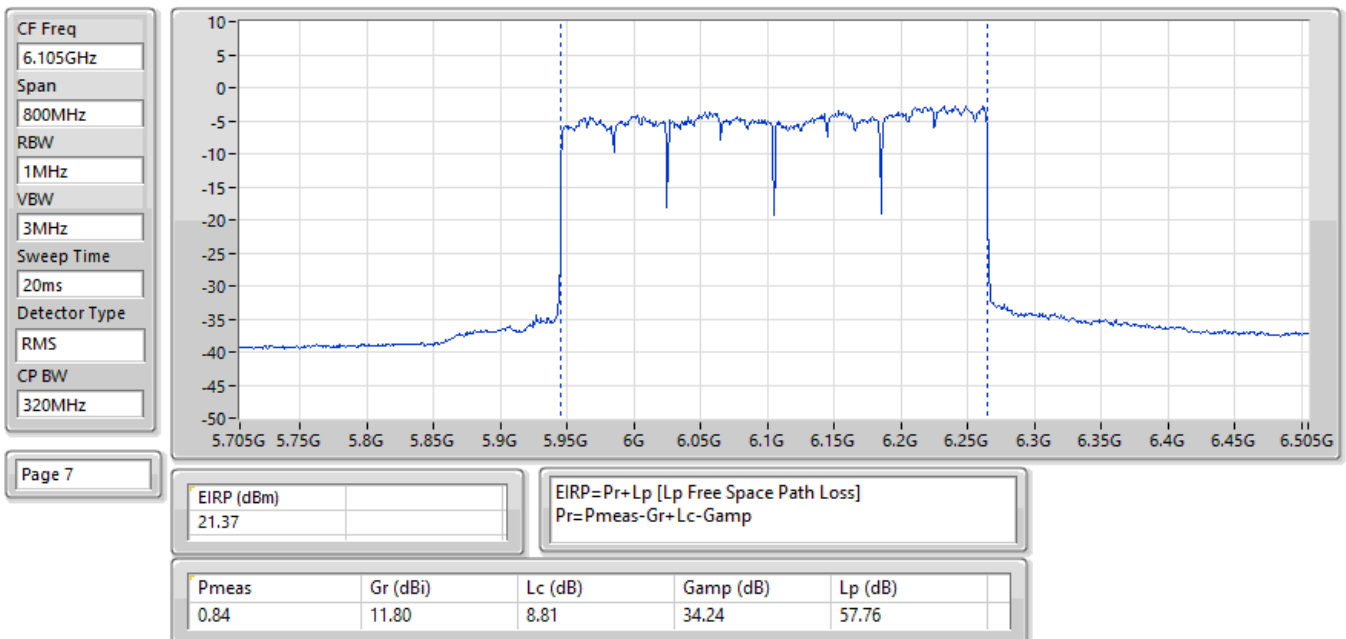
22/01/2025

EIRP;Band:6.2G;be160;BWch:160MHz;Nss:1,(M0);Nant:1;Ch:6185MHz;TX



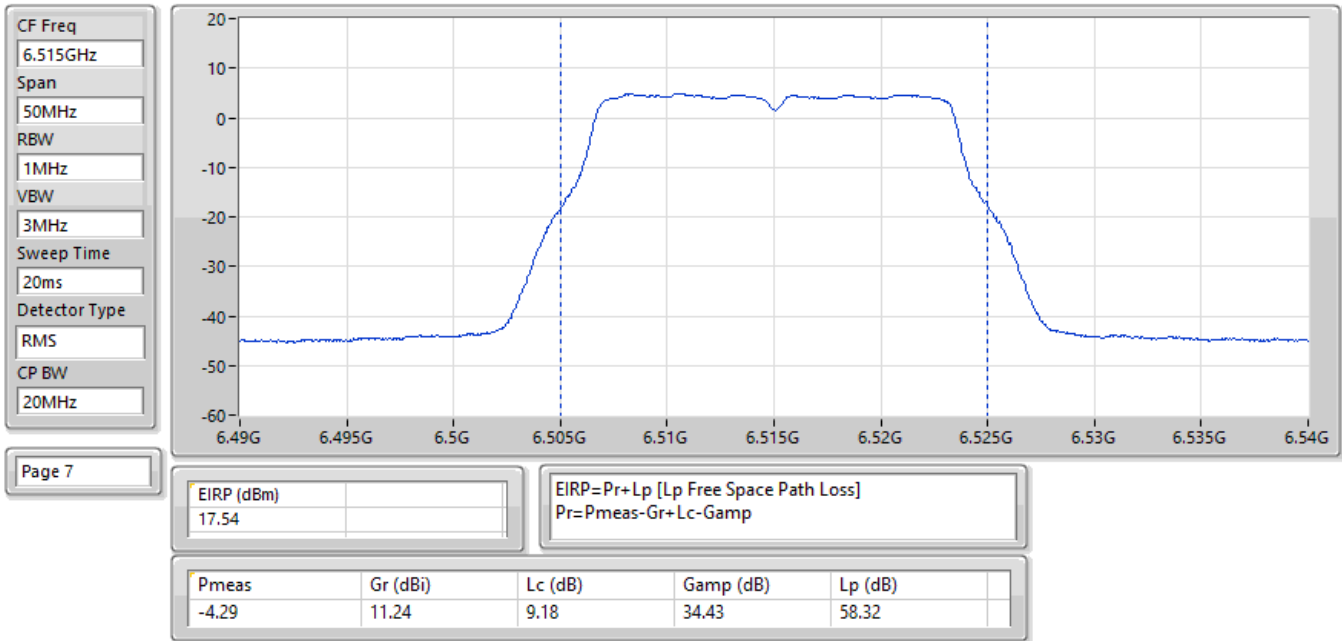
23/01/2025

EIRP;Band:6.2G;be320;BWch:320MHz;Nss:1,(M0);Nant:1;Ch:6105MHz;TX



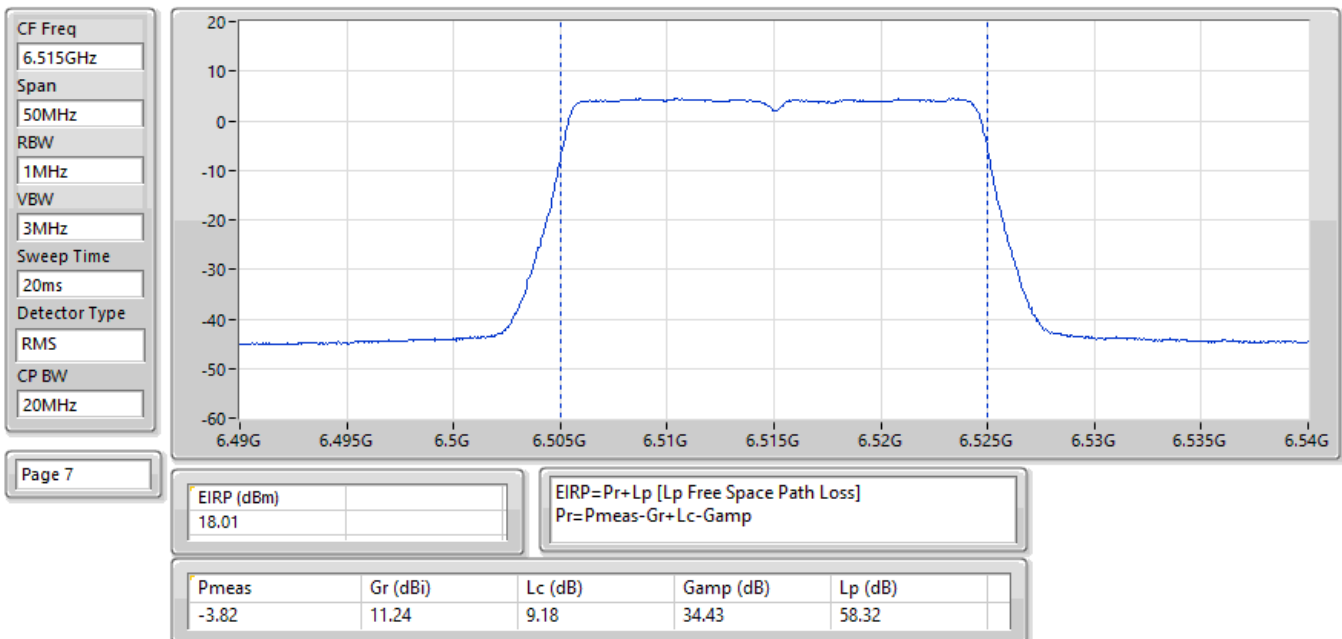
22/01/2025

EIRP:Band:6.4G;11a;BWch:20MHz;Nss:1,(6D);Nant:1;Ch:6515MHz;TX



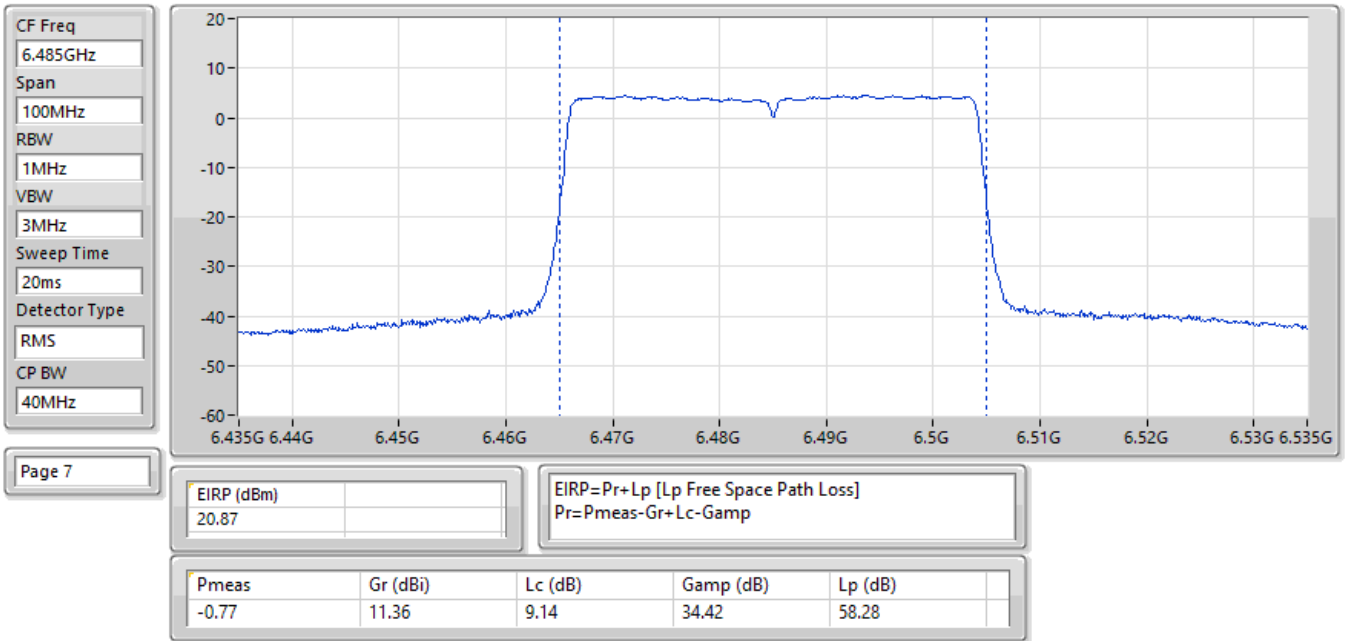
22/01/2025

EIRP:Band:6.4G;be20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:6515MHz;TX



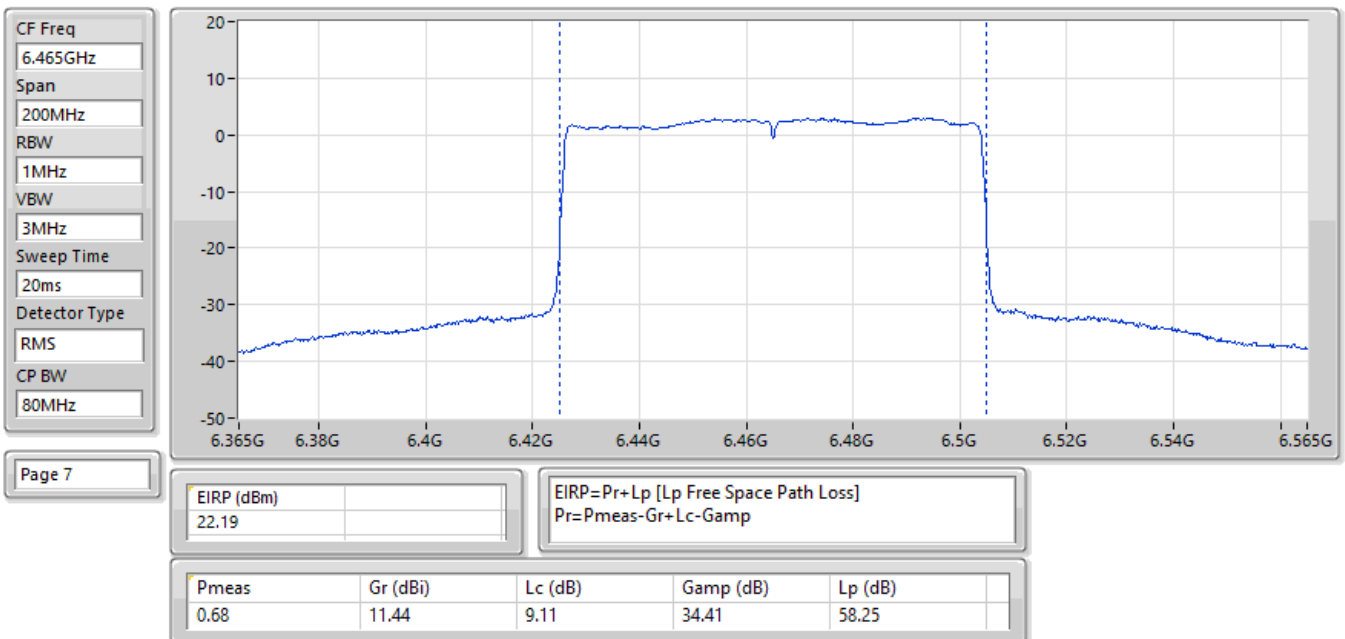
22/01/2025

EIRP:Band:6.4G;be40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:6485MHz;TX



22/01/2025

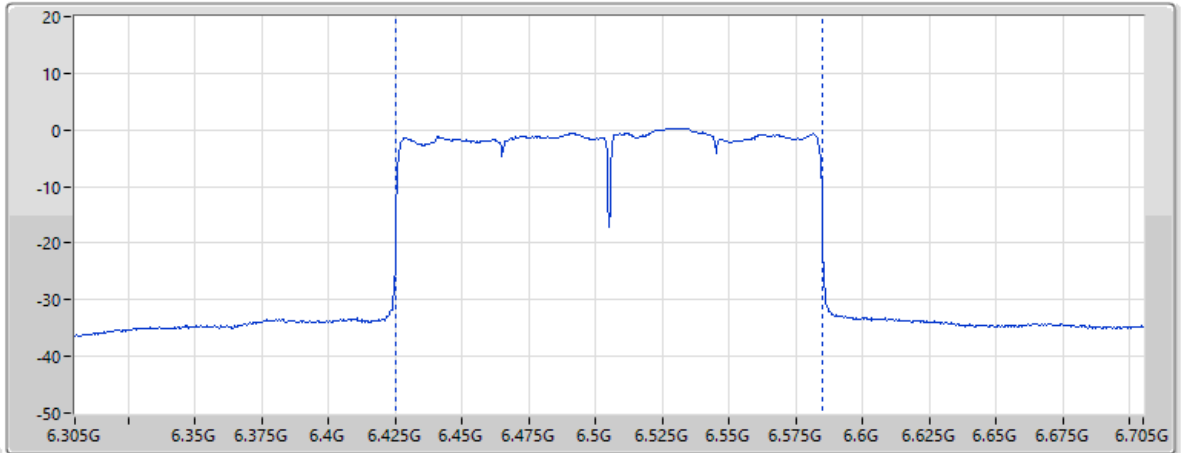
EIRP:Band:6.4G;be80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:6465MHz;TX



22/01/2025

EIRP;Band:6.4G;be160;BWch:160MHz;Nss:1,(M0);Nant:1;Ch:6505MHz;TX

CF Freq
6.505GHz
Span
400MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
160MHz



Page 7

EIRP (dBm)
21.84

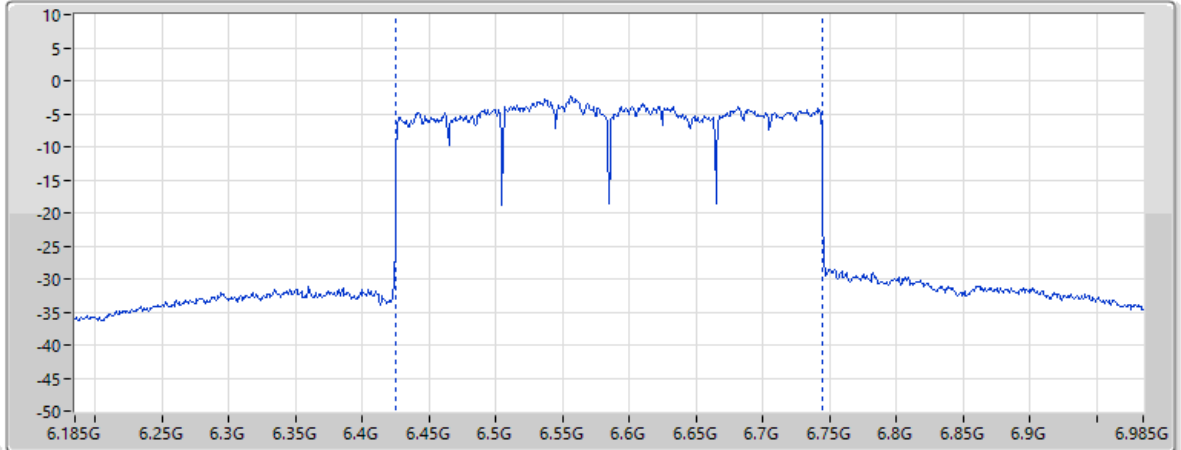
EIRP=Pr+Lp [Lp Free Space Path Loss]
Pr=Pmeas-Gr+Lc-Gamp

Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
0.07	11.28	9.17	34.43	58.31

22/01/2025

EIRP;Band:6.4G;be320;BWch:320MHz;Nss:1,(M0);Nant:1;Ch:6585MHz;TX

CF Freq
6.585GHz
Span
800MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
320MHz



Page 7

EIRP (dBm)
21.23

EIRP=Pr+Lp [Lp Free Space Path Loss]
Pr=Pmeas-Gr+Lc-Gamp

Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-1.13	10.89	9.28	34.44	58.41

22/01/2025

EIRP:Band:6.7G;11a;BWch:20MHz;Nss:1,(6D);Nant:1;Ch:6535MHz;TX

CF Freq
6.535GHz

Span
50MHz

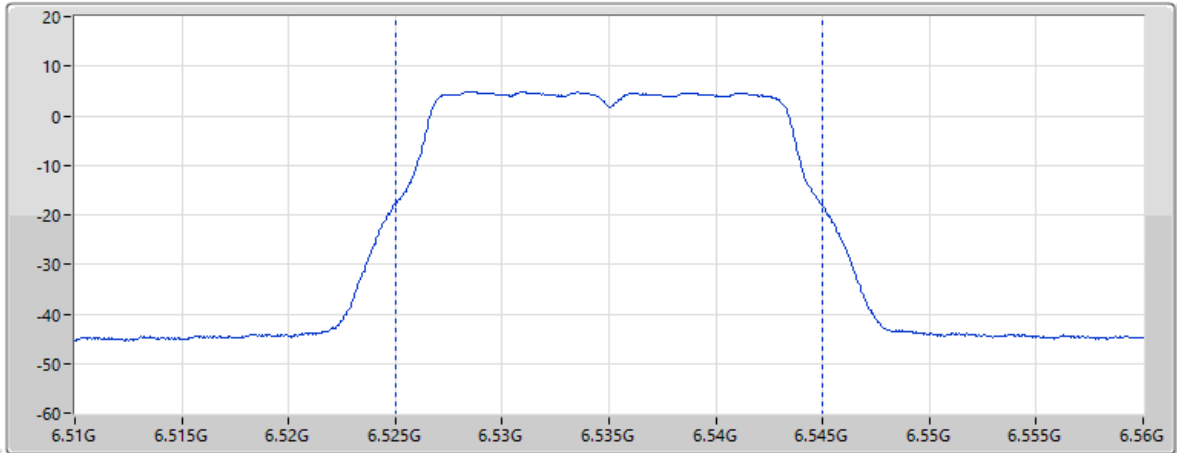
RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS

CP BW
20MHz



Page 7

EIRP (dBm)		EIRP=Pr+Lp [Lp Free Space Path Loss] Pr=Pmeas-Gr+Lc-Gamp		
17.57				
Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-4.40	11.16	9.21	34.43	58.35

22/01/2025

EIRP:Band:6.7G;be20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:6875MHz;TX

CF Freq
6.875GHz

Span
50MHz

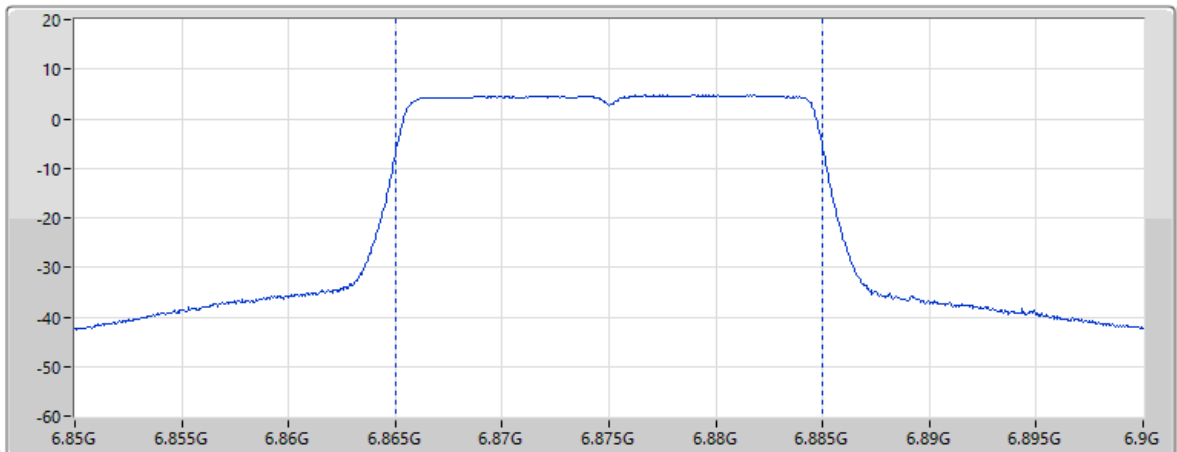
RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS

CP BW
20MHz

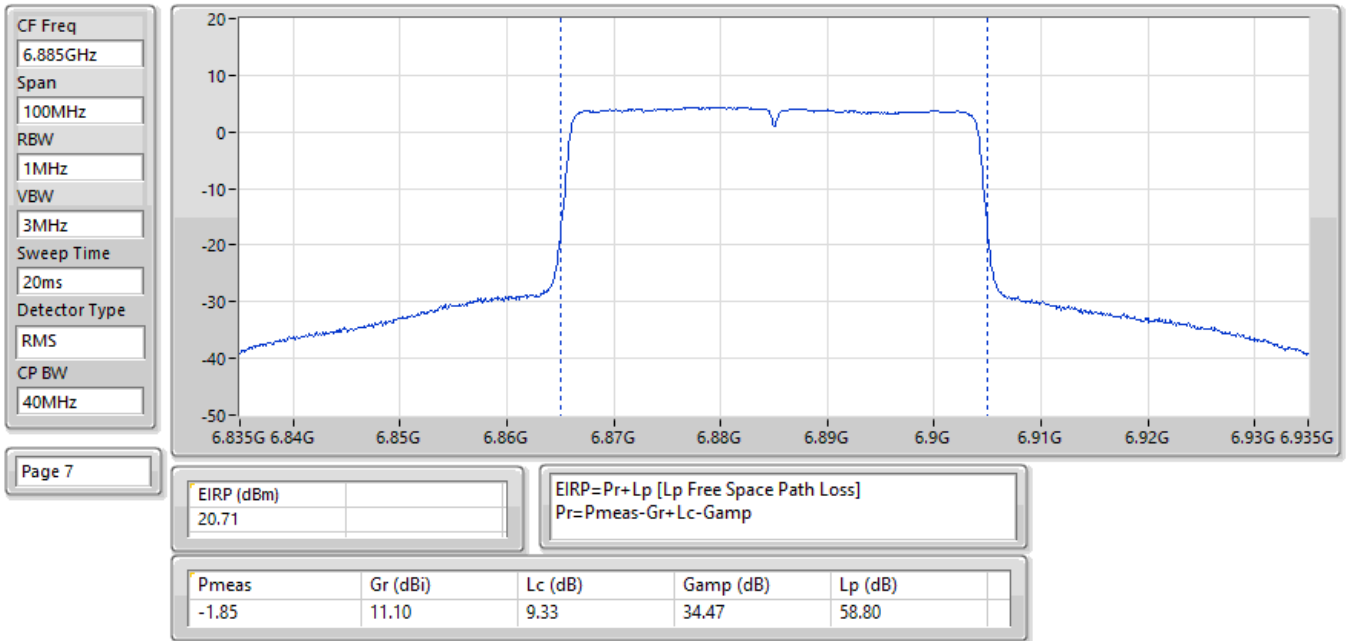


Page 7

EIRP (dBm)		EIRP=Pr+Lp [Lp Free Space Path Loss] Pr=Pmeas-Gr+Lc-Gamp		
18.38				
Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-4.17	11.10	9.33	34.47	58.79

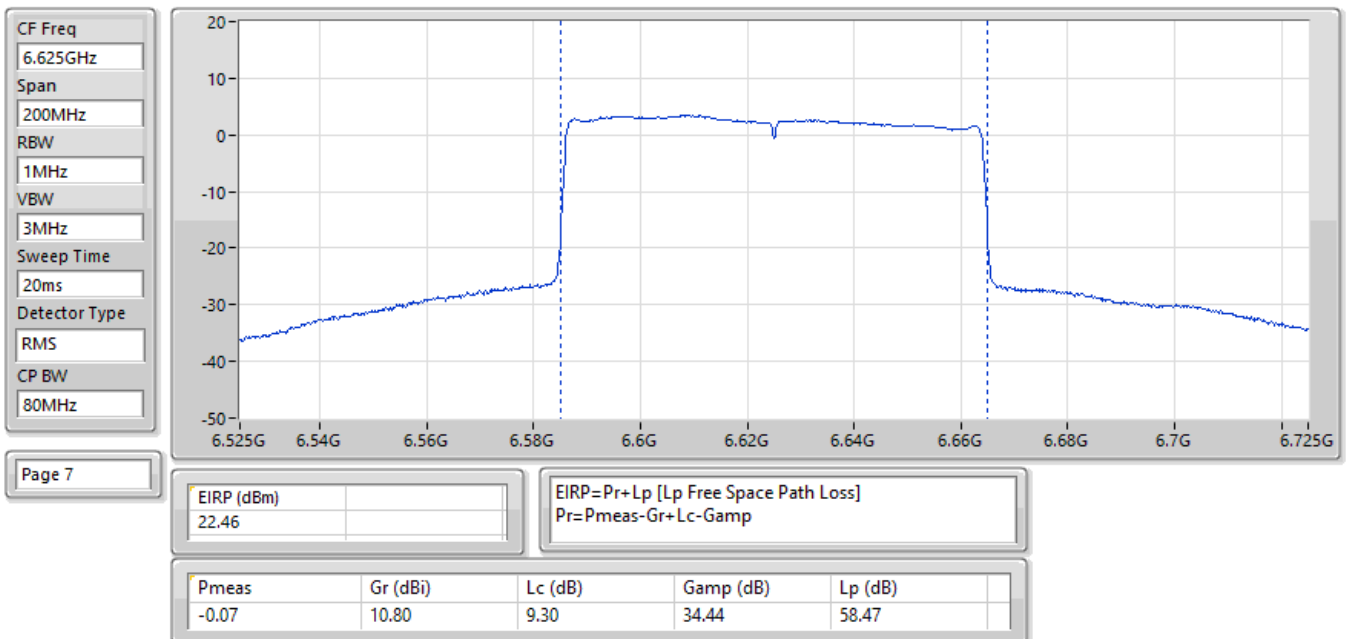
22/01/2025

EIRP;Band:6.7G;be40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:6885MHz;TX



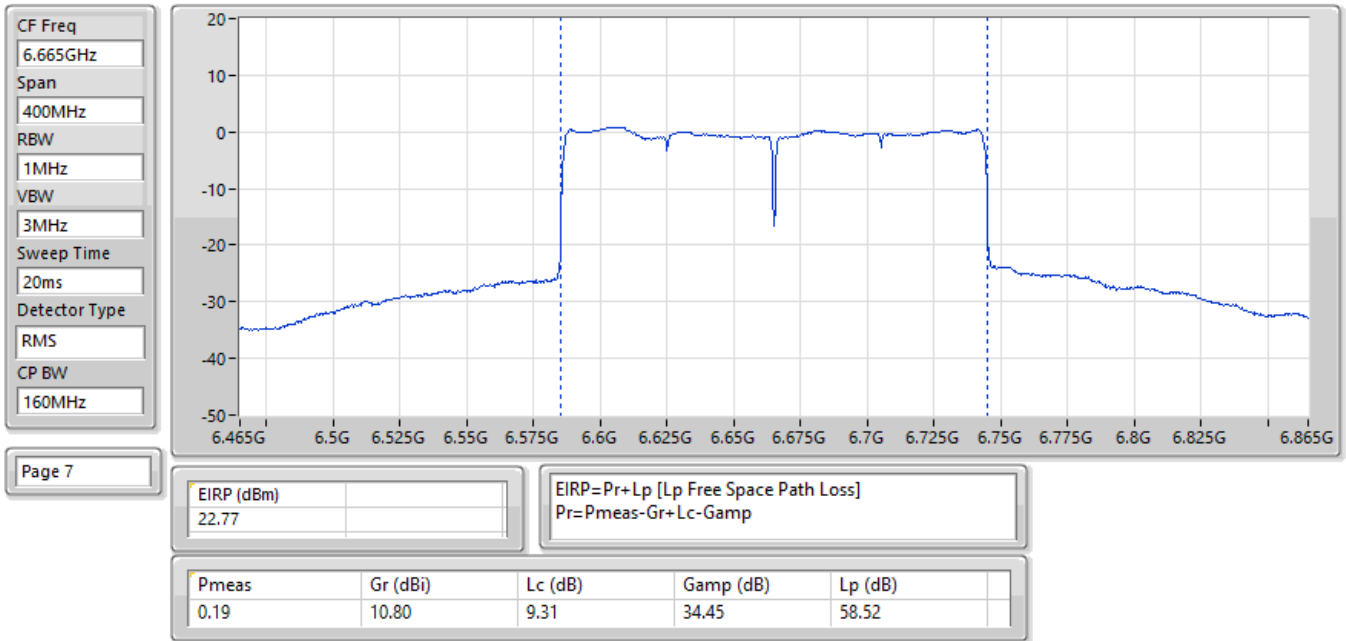
22/01/2025

EIRP;Band:6.7G;be80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:6625MHz;TX



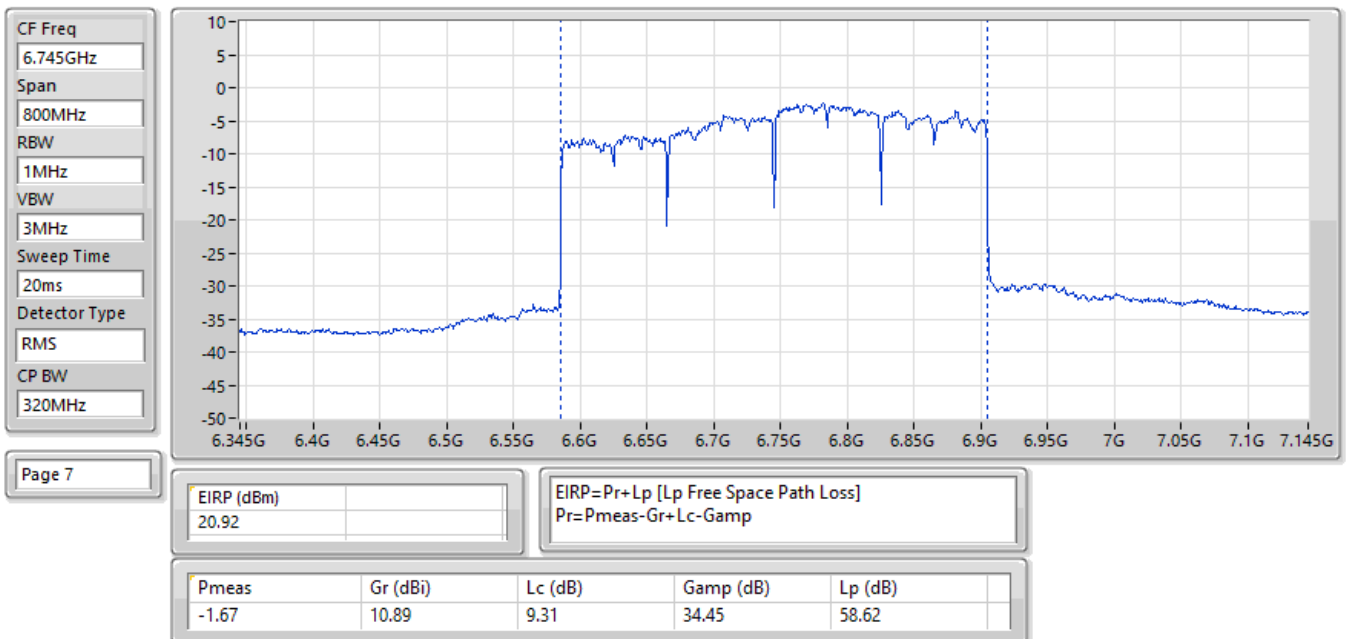
22/01/2025

EIRP;Band:6.7G;be160;BWch:160MHz;Nss:1,(M0);Nant:1;Ch:6665MHz;TX



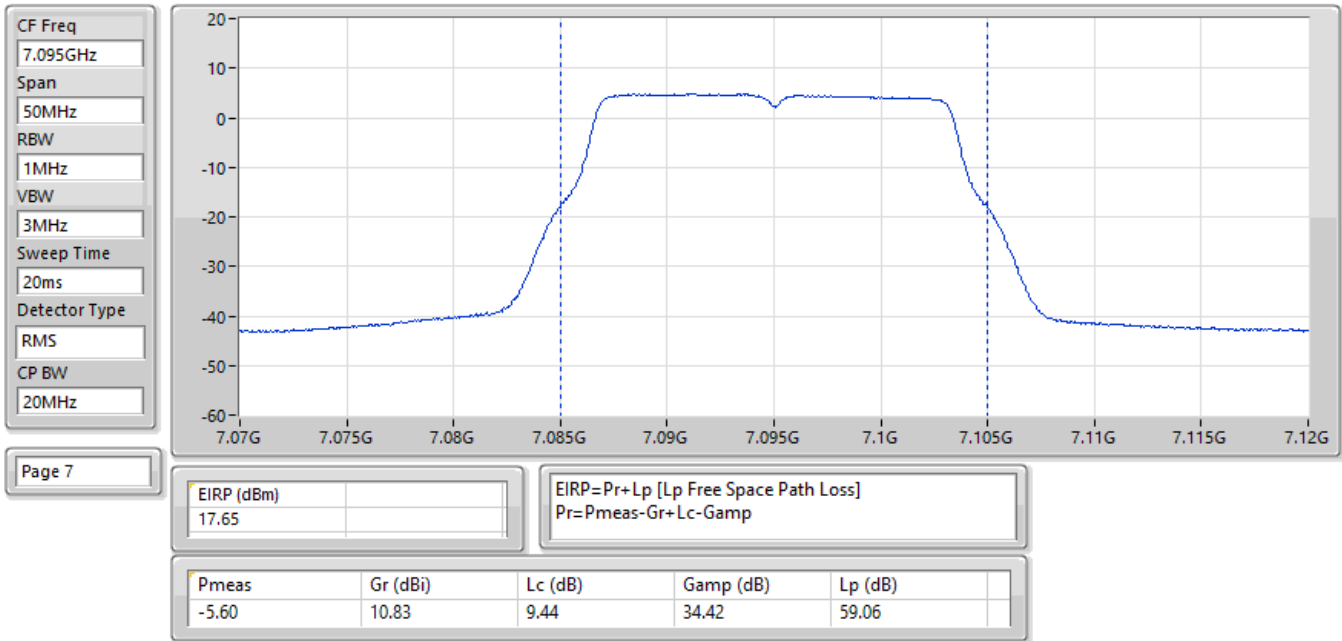
22/01/2025

EIRP;Band:6.7G;be320;BWch:320MHz;Nss:1,(M0);Nant:1;Ch:6745MHz;TX



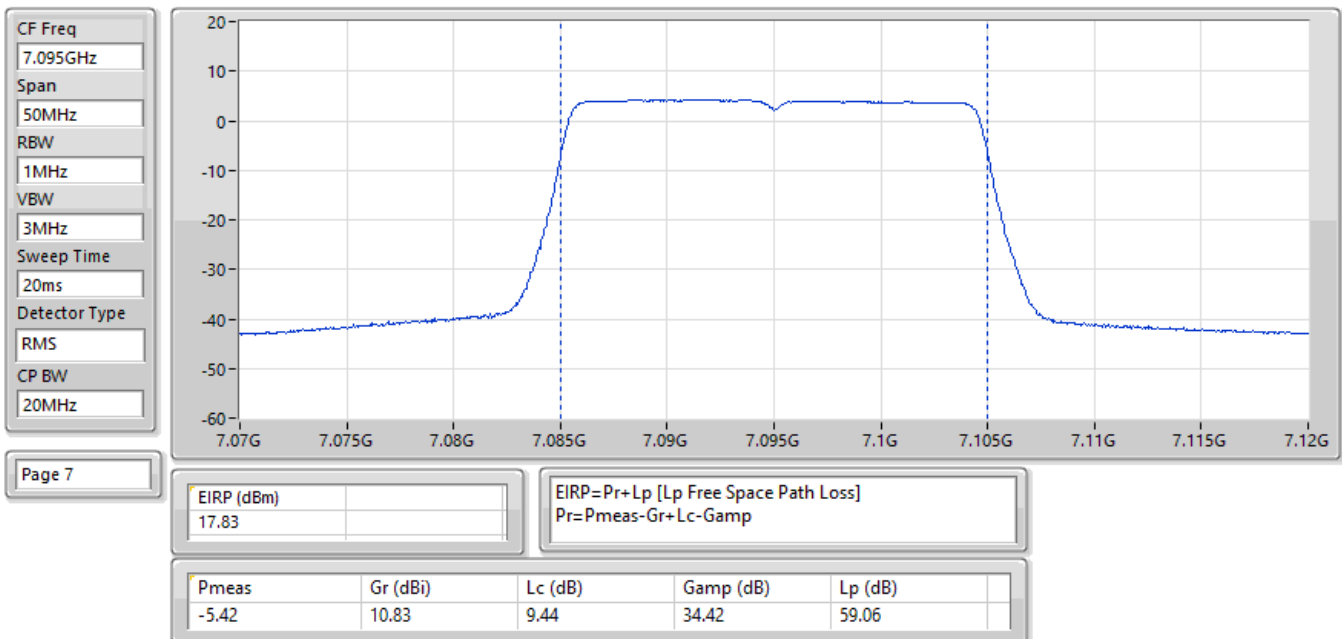
22/01/2025

EIRP:Band:7.0G;11a;BWch:20MHz;Nss:1,(6D);Nant:1;Ch:7095MHz;TX



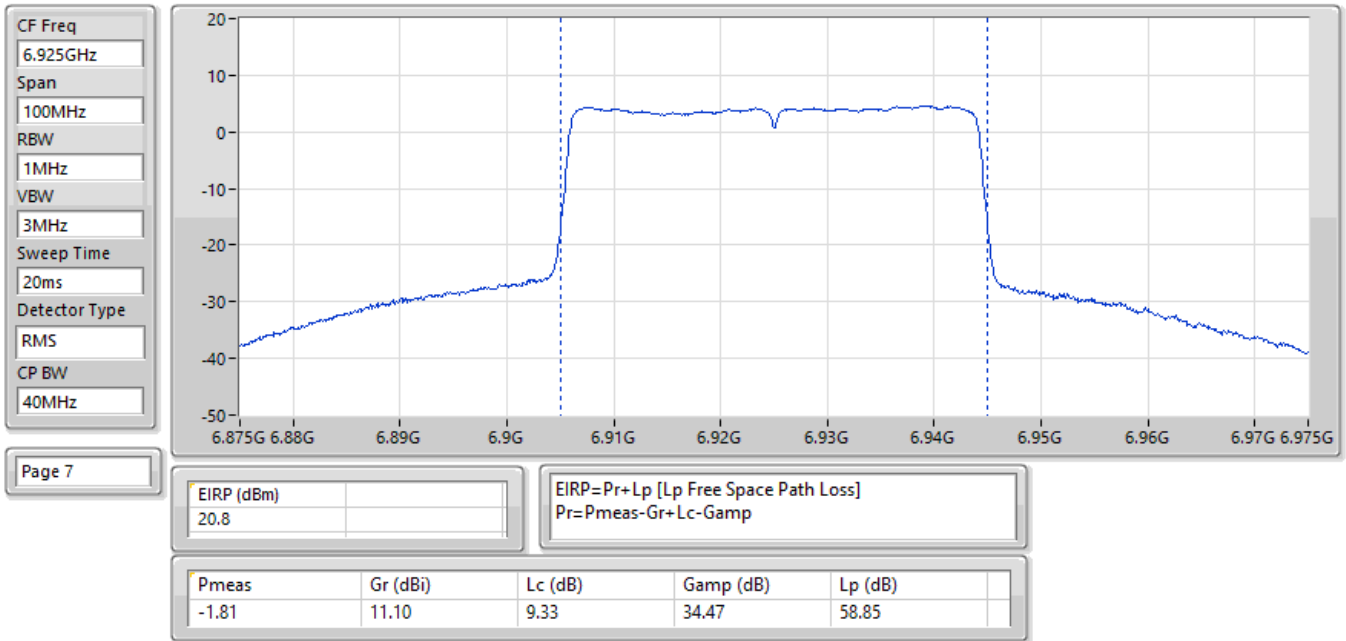
22/01/2025

EIRP:Band:7.0G;be20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:7095MHz;TX



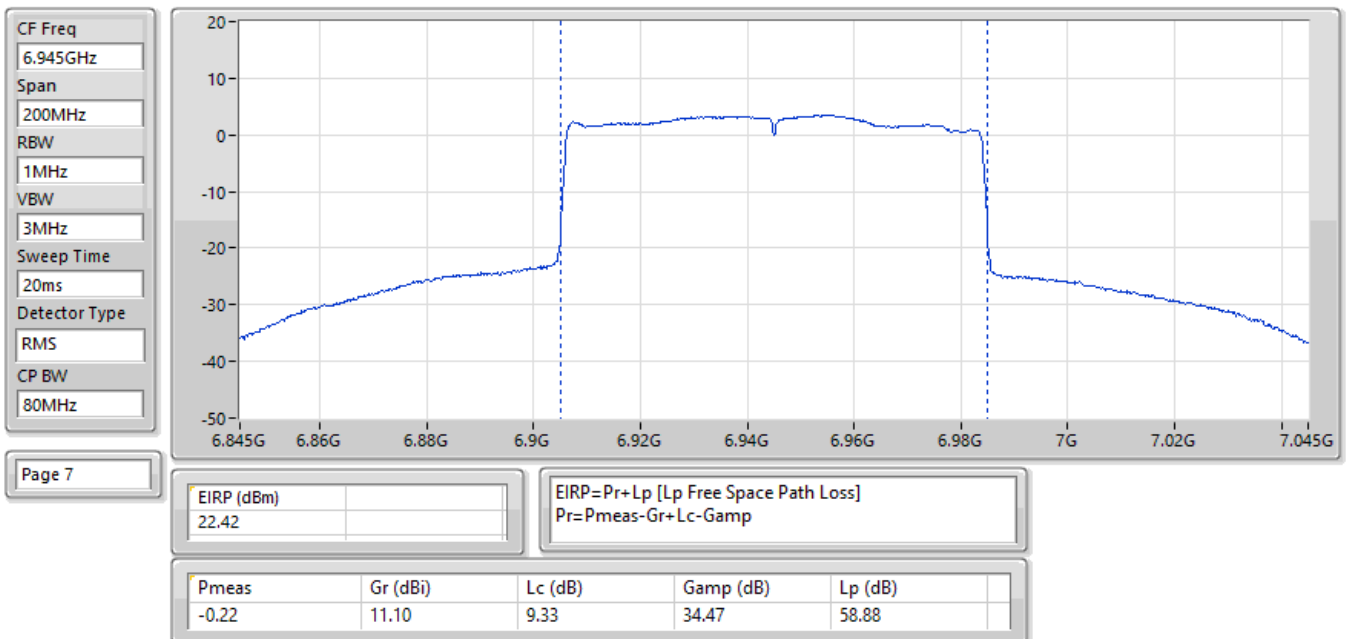
22/01/2025

EIRP;Band:7.0G;be40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:6925MHz;TX



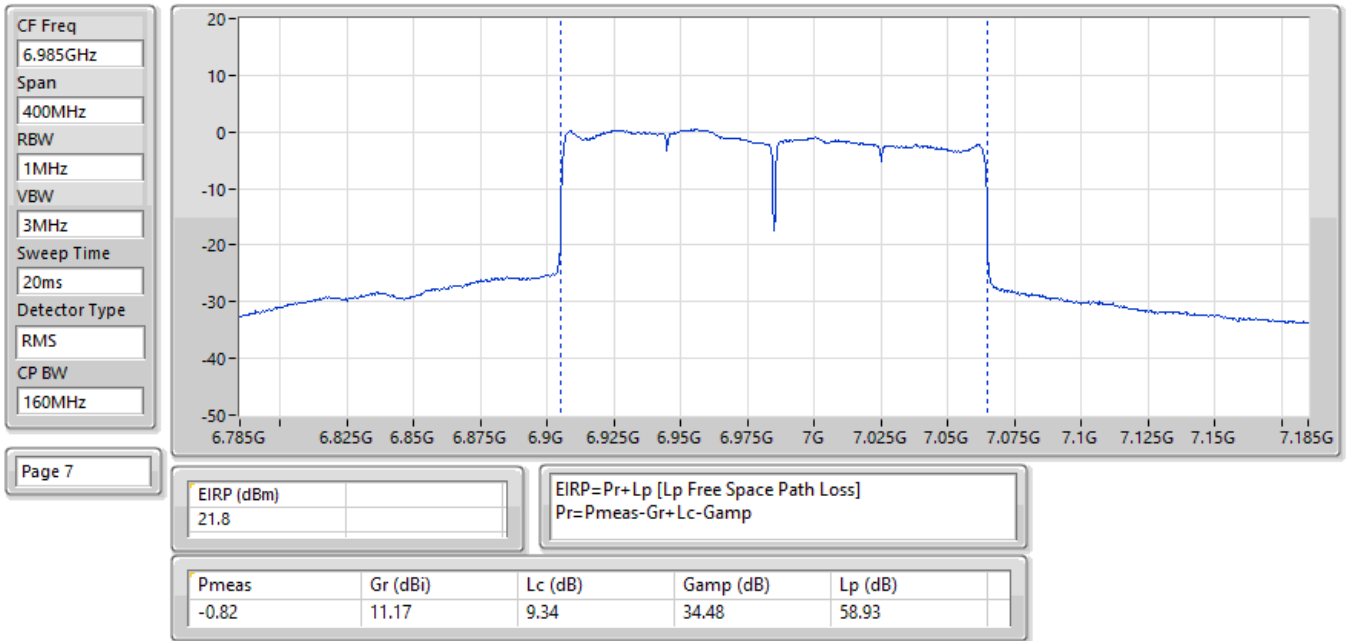
22/01/2025

EIRP;Band:7.0G;be80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:6945MHz;TX



22/01/2025

EIRP;Band:7.0G;be160;BWch:160MHz;Nss:1,(M0);Nant:1;Ch:6985MHz;TX



Summary

Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	15.09	0.03228
802.11be EHT20_Nss1,(MCS0)_2TX	16.04	0.04018
802.11be EHT40_Nss1,(MCS0)_2TX	18.75	0.07499
802.11be EHT80_Nss1,(MCS0)_2TX	21.61	0.14488
802.11be EHT160_Nss1,(MCS0)_2TX	23.02	0.20045
802.11be EHT320_Nss1,(MCS0)_2TX	22.44	0.17539
6.425-6.525GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	15.19	0.03304
802.11be EHT20_Nss1,(MCS0)_2TX	15.74	0.03750
802.11be EHT40_Nss1,(MCS0)_2TX	18.72	0.07447
802.11be EHT80_Nss1,(MCS0)_2TX	21.26	0.13366
802.11be EHT160_Nss1,(MCS0)_2TX	22.57	0.18072
802.11be EHT320_Nss1,(MCS0)_2TX	22.95	0.19724
6.525-6.875GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	15.13	0.03258
802.11be EHT20_Nss1,(MCS0)_2TX	16.46	0.04426
802.11be EHT40_Nss1,(MCS0)_2TX	18.66	0.07345
802.11be EHT80_Nss1,(MCS0)_2TX	21.44	0.13932
802.11be EHT160_Nss1,(MCS0)_2TX	22.82	0.19143
802.11be EHT320_Nss1,(MCS0)_2TX	23.12	0.20512
6.875-7.125GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	15.07	0.03214
802.11be EHT20_Nss1,(MCS0)_2TX	16.05	0.04027
802.11be EHT40_Nss1,(MCS0)_2TX	19.08	0.08091
802.11be EHT80_Nss1,(MCS0)_2TX	21.16	0.13062
802.11be EHT160_Nss1,(MCS0)_2TX	22.88	0.19409

**Result**

Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-
5955MHz	Pass	13.72	30.00
6195MHz	Pass	15.09	30.00
6415MHz	Pass	14.51	30.00
6435MHz	Pass	14.62	30.00
6475MHz	Pass	14.40	30.00
6515MHz	Pass	15.19	30.00
6535MHz	Pass	15.13	30.00
6695MHz	Pass	15.02	30.00
6875MHz	Pass	14.50	30.00
6895MHz	Pass	14.49	30.00
6995MHz	Pass	15.07	30.00
7095MHz	Pass	14.09	30.00
7115MHz	Pass	10.66	30.00
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-
5955MHz	Pass	13.84	30.00
6195MHz	Pass	16.04	30.00
6415MHz	Pass	15.66	30.00
6435MHz	Pass	15.66	30.00
6475MHz	Pass	15.50	30.00
6515MHz	Pass	15.74	30.00
6535MHz	Pass	15.47	30.00
6695MHz	Pass	15.78	30.00
6875MHz	Pass	16.46	30.00
6895MHz	Pass	16.05	30.00
6995MHz	Pass	15.14	30.00
7095MHz	Pass	15.48	30.00
7115MHz	Pass	11.44	30.00
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-
5965MHz	Pass	17.53	30.00
6205MHz	Pass	18.75	30.00
6405MHz	Pass	18.59	30.00
6445MHz	Pass	17.85	30.00
6485MHz	Pass	18.36	30.00
6525MHz	Pass	18.72	30.00
6565MHz	Pass	18.66	30.00
6685MHz	Pass	18.38	30.00
6885MHz	Pass	18.63	30.00
6925MHz	Pass	19.08	30.00
7005MHz	Pass	18.60	30.00
7085MHz	Pass	18.91	30.00
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-
5985MHz	Pass	19.85	30.00
6225MHz	Pass	21.61	30.00
6385MHz	Pass	20.94	30.00
6465MHz	Pass	21.24	30.00
6545MHz	Pass	21.26	30.00
6625MHz	Pass	21.44	30.00
6705MHz	Pass	21.18	30.00
6785MHz	Pass	20.63	30.00
6865MHz	Pass	20.96	30.00
6945MHz	Pass	21.16	30.00
7025MHz	Pass	20.75	30.00
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-
6025MHz	Pass	22.44	30.00



Radiated EIRP_Non-Beamforming_Radio 3_2T1S

Appendix C.2

Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
6185MHz	Pass	23.02	30.00
6345MHz	Pass	22.26	30.00
6505MHz	Pass	22.57	30.00
6665MHz	Pass	22.82	30.00
6825MHz	Pass	22.52	30.00
6985MHz	Pass	22.88	30.00
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-
6105MHz	Pass	22.36	30.00
6265MHz	Pass	22.32	30.00
6425MHz	Pass	22.44	30.00
6585MHz	Pass	22.95	30.00
6745MHz	Pass	23.12	30.00
6905MHz	Pass	22.74	30.00

DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.