



FCC RADIO TEST REPORT

FCC ID : TVE-512178E8741
Equipment : Secured Wireless Access Point
Brand Name : FORTINET
Model Name : FortiAP 441Kxxxxxx, FAP-441Kxxxxxx, FORTIAP-441Kxxxxxx
(Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)
Applicant : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA
Manufacturer : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA
Standard : 47 CFR FCC Part 15.407

The product was received on Jul. 11, 2023, and testing was started from Aug. 31, 2023 and completed on Nov. 03, 2023. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this 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

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



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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: TVE-512178E8741

Page Number : 3 of 38
Issued Date : Jul. 04, 2024
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: Ann Hou



1 General Description

1.1 Information

Radio 4 (Scan radio) is only RX function.

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925 ~ 7125	ax (HEW20), be (EHT20)	5955 ~ 7115	1 ~ 233 [59]
5925 ~ 7125	ax (HEW40), be (EHT40)	5965 ~ 7085	3 ~ 227 [29]
5925 ~ 7125	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

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11be EHT20	20	4TX
6.425-6.525GHz	802.11be EHT20	20	4TX
6.525-6.875GHz	802.11be EHT20	20	4TX
6.875-7.125GHz	802.11be EHT20	20	4TX
5.925-6.425GHz	802.11be EHT40	40	4TX
6.425-6.525GHz	802.11be EHT40	40	4TX
6.525-6.875GHz	802.11be EHT40	40	4TX
6.875-7.125GHz	802.11be EHT40	40	4TX
5.925-6.425GHz	802.11be EHT80	80	4TX
6.425-6.525GHz	802.11be EHT80	80	4TX
6.525-6.875GHz	802.11be EHT80	80	4TX
6.875-7.125GHz	802.11be EHT80	80	4TX
5.925-6.425GHz	802.11be EHT160	160	4TX
6.425-6.525GHz	802.11be EHT160	160	4TX
6.525-6.875GHz	802.11be EHT160	160	4TX
6.875-7.125GHz	802.11be EHT160	160	4TX
5.925-6.425GHz	802.11be EHT320	320	4TX
6.425-6.525GHz	802.11be EHT320	320	4TX
6.525-6.875GHz	802.11be EHT320	320	4TX

**Beamforming_Radio 3**

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11be EHT20-BF	20	4TX
6.425-6.525GHz	802.11be EHT20-BF	20	4TX
6.525-6.875GHz	802.11be EHT20-BF	20	4TX
6.875-7.125GHz	802.11be EHT20-BF	20	4TX
5.925-6.425GHz	802.11be EHT40-BF	40	4TX
6.425-6.525GHz	802.11be EHT40-BF	40	4TX
6.525-6.875GHz	802.11be EHT40-BF	40	4TX
6.875-7.125GHz	802.11be EHT40-BF	40	4TX
5.925-6.425GHz	802.11be EHT80-BF	80	4TX
6.425-6.525GHz	802.11be EHT80-BF	80	4TX
6.525-6.875GHz	802.11be EHT80-BF	80	4TX
6.875-7.125GHz	802.11be EHT80-BF	80	4TX
5.925-6.425GHz	802.11be EHT160-BF	160	4TX
6.425-6.525GHz	802.11be EHT160-BF	160	4TX
6.525-6.875GHz	802.11be EHT160-BF	160	4TX
6.875-7.125GHz	802.11be EHT160-BF	160	4TX
5.925-6.425GHz	802.11be EHT320-BF	320	4TX
6.425-6.525GHz	802.11be EHT320-BF	320	4TX
6.525-6.875GHz	802.11be EHT320-BF	320	4TX

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	Senao	5718A0730300	PIFA	I-Pex	2.4G	Radio 1
					5G	Radio 2
2	Senao	5718A0731300	PIFA	I-Pex	2.4G	Radio 1
					5G	Radio 2
3	Senao	5718A0732300	PIFA	I-Pex	2.4G	Radio 1
					5G	Radio 2
4	Senao	5718A0733300	PIFA	I-Pex	2.4G	Radio 1
					5G	Radio 2
5	AWAN	7102A0657000	Alford Loop	I-Pex	6E	Radio 3
6	AWAN	7102A0659000	Alford Loop	I-Pex	6E	Radio 3
7	AWAN	7102A0660000	Alford Loop	I-Pex	6E	Radio 3
8	AWAN	7102A0658000	Alford Loop	I-Pex	6E	Radio 3
9	Senao	5718A0734300	PIFA	I-Pex	2.4G/5G/6E	Scan radio
10	Senao	5718A0735300	PIFA	I-Pex	2.4G/5G/6E	Scan radio
11	Senao	5718A0736300	PIFA	I-Pex	BT& Zigbee	-
12	Quectel	7102A0656000	Patch	I-Pex	GPS	-
13	Quectel	Y4SEN00A1EA	Patch	Reverse SMA	GPS	-

Ant.	Port	Gain (dBi)				
		2.4G	5G	6E	BT/Zigbee	GPS
1	1	2.95	5.28	-	-	-
2	2	3.38	2.9	-	-	-
3	3	2.05	6.22	-	-	-
4	4	2.18	4.55	-	-	-
5	1	-	-	4.26	-	-
6	2	-	-	5.89	-	-
7	3	-	-	5.27	-	-
8	4	-	-	4.86	-	-
9	1	1.76	5.11	4.41	-	-
10	2	1.17	2.91	4.43	-	-
11	1	-	-	-	4.5	-
12	1	-	-	-	-	-0.5
13	2	-	-	-	-	1.4



Composite Gain (dBi)										
	2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	5.885G	6.175G	6.475G	6.695G	6.995G
DG [1SS]	6.91	5.35	5.46	6.04	7.23	7.22	9.32	8.48	8.63	8.56
DG [2SS]	3.91	4.2	4.7	4.49	6.22	5.92	6.32	5.48	5.63	5.89
DG [4SS]	3.38	4.2	4.7	4.49	6.22	5.92	5.24	4.19	4.64	5.89

Note 1: The EUT has thirteen antennas.

Note 2: The antenna 13 mentioned above will not be sold with the EUT in the market

Note 3: The composite gain is derived as KDB 662911 D03 v01 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP370714.

For 2.4GHz function:

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

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

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

Ant. 9 (port 1) and Ant. 10 (port 2) could receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX)

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

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

Ant. 9 (port 1) and Ant. 10 (port 2) could receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax/be mode (4TX/4RX)

Ant. 5 (port 1) , Ant. 6 (port 2) , Ant. 7 (port 3) and Ant. 8 (port 4) could transmit/receive simultaneously.

For IEEE 802.11ax/be mode (2RX)

Ant. 9 (port 1) and Ant. 10 (port 2) could receive simultaneously.

For BT function:

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

Ant. 11 (port 1) could transmit/receive.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 11 (port 1) could transmit/receive.

**1.1.3 EUT Information**

Operational Condition			
EUT Power Type	From AC Adapter		
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 (802.11ax/802.11be)	☒	Full RU	☐ Partial RU
Channel Puncturing	☐	Support	☒ Not Support
Software / Firmware Version for CBP		Linux OpenWrt 5.4.213 #0 SMP PREEMPT Fri Jun 2 09:34:02 2023 armv71 GNU/Linux	
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 Mode Test Duty Cycle****Non-Beamforming_Radio 3**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss1,(MCS0)_4TX	0.778	1.09	5.454m	300
802.11be EHT40_Nss1,(MCS0)_4TX	0.779	1.08	5.454m	300
802.11be EHT80_Nss1,(MCS0)_4TX	0.777	1.1	5.453m	300
802.11be EHT160_Nss1,(MCS0)_4TX	0.788	1.03	5.454m	300
802.11be EHT320_Nss1,(MCS0)_4TX	0.774	1.11	5.457m	300

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

Beamforming_Radio 3

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20-BF_Nss1,(MCS0)_4TX	0.944	0.25	2.959m	1k
802.11be EHT40-BF_Nss1,(MCS0)_4TX	0.948	0.23	3.675m	300
802.11be EHT80-BF_Nss1,(MCS0)_4TX	0.973	0.12	3.857m	300
802.11be EHT160-BF_Nss1,(MCS0)_4TX	0.914	0.39	3.857m	300
802.11be EHT320-BF_Nss1,(MCS0)_4TX	0.928	0.32	3.899m	300

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

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
FortiAP 441Kxxxxxx, FAP-441Kxxxxxx, FORTIAP-441Kxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	All the models are identical, the different model served as marketing strategy.

From the above models, model: FAP-441K was selected as representative model for the test and its data was recorded in this report.

1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR370714AE

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

Modifications	Performance Checking
Revise typo (Power setting)	N/A



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 v02r02
- ♦ KDB 987594 D02 v02r01
- ♦ KDB 662911 D01 v02r01
- ♦ KDB 662911 D03 v01
- ♦ 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	Edward Wang	22.1~23.6°C / 53~ 58%	19/Sep/2023
RF Conducted (Non-Beamforming)	TH07-HY	Xun Hsieh	22.9~24.1°C / 52~59%	04/Sep/2023~03/Nov/2023
RF Conducted (Beamforming)	TH07-HY	Xun Hsieh	22.8~23.4°C / 52~56%	18/Oct/2023~03/Nov/2023
Radiated (Beamforming)	03CH02-HY	Henry Ho	24.3~25.1°C / 53.4~55.2%	12/Oct/2023~18/Oct/2023
Contention-Based Protocol	DFS03-HY	John Yang	23.0~24.1°C / 50~55%	27/Sep/2023
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
☒ 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
Radiated (Non-Beamforming)	03CH24-HY	Simon Cheng	23.1~25.8°C / 52.2~54.7%	31/Aug/2023~5/Sep/2023
Radiated(Co-location)	03CH25-HY	Lego Lin	23.1~24.2°C / 53.5~60.2%	04/Oct/2023~06/Oct/2023



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Emission Bandwidth	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	qdart_conn.win.1.0_installer_00099
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Non-Beamforming_Radio 3

Mode	Power Setting
802.11be EHT20_Nss1,(MCS0)_4TX	-
5955MHz	6
6195MHz	6
6415MHz	7
6435MHz	8.5
6475MHz	8.5
6515MHz	8.5
6535MHz	8.5
6695MHz	9
6875MHz	7
6895MHz	7
6995MHz	8.5
7095MHz	7
7115MHz	3
802.11be EHT40_Nss1,(MCS0)_4TX	-
5965MHz	7
6205MHz	9
6405MHz	11
6445MHz	11
6485MHz	12
6525MHz	12
6565MHz	11
6685MHz	11
6885MHz	10.5
6925MHz	11
7005MHz	11
7085MHz	10.5
802.11be EHT80_Nss1,(MCS0)_4TX	-
5985MHz	10.5



6225MHz	12.5
6385MHz	14.5
6465MHz	14.5
6545MHz	14.5
6625MHz	14.5
6705MHz	14.5
6785MHz	14.5
6865MHz	14.5
6945MHz	14.5
7025MHz	14.5
802.11be EHT160_Nss1,(MCS0)_4TX	-
6025MHz	14.5
6185MHz	15
6345MHz	16.5
6505MHz	17.5
6665MHz	17
6825MHz	17
6985MHz	16.5
802.11be EHT320_Nss1,(MCS0)_4TX	-
6105MHz	19
6265MHz	18.5
6425MHz	21
6585MHz	20
6745MHz	19.5
6905MHz	20

**Beamforming_Radio 3**

Mode	Power Setting
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-
5955MHz	8
6195MHz	8
6415MHz	11
6435MHz	11
6475MHz	13
6515MHz	9
6535MHz	9
6695MHz	11
6875MHz	11
6895MHz	11
6995MHz	11
7095MHz	12
7115MHz	8
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-
5965MHz	9
6205MHz	13
6405MHz	14
6445MHz	15
6485MHz	15
6525MHz	15
6565MHz	15
6685MHz	14
6885MHz	14
6925MHz	14
7005MHz	12
7085MHz	12
802.11be EHT80-BF_Nss1,(MCS0)_4TX	-
5985MHz	13
6225MHz	16
6385MHz	17
6465MHz	18
6545MHz	17
6625MHz	18



6705MHz	17
6785MHz	17
6865MHz	18
6945MHz	17
7025MHz	17
802.11be EHT160-BF_Nss1,(MCS0)_4TX	-
6025MHz	18
6185MHz	19
6345MHz	19
6505MHz	20
6665MHz	20
6825MHz	20
6985MHz	20
802.11be EHT320-BF_Nss1,(MCS0)_4TX	-
6105MHz	21
6265MHz	22
6425MHz	23
6585MHz	23
6745MHz	23
6905MHz	23



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Unwanted Emissions 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		
1	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Radio 1_2.4G+Radio 2_5G+Radio 3_6E+Bluetooth
2	Radio 1_2.4G+Radio 2_5G+Radio 3_6E+Zigbee
Refer to Sporton Test Report No.: FA370714 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	



2.3 Accessories

Accessories				
Bracket ceiling mount 1	Brand Name	DRAGONJET CORPORTION	Model Name	CLIP CEILING 9/16 LFP
Bracket ceiling mount 2	Brand Name	DRAGONJET CORPORTION	Model Name	CLIP CEILING 15/16 LFP

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

2.4 Support Equipment

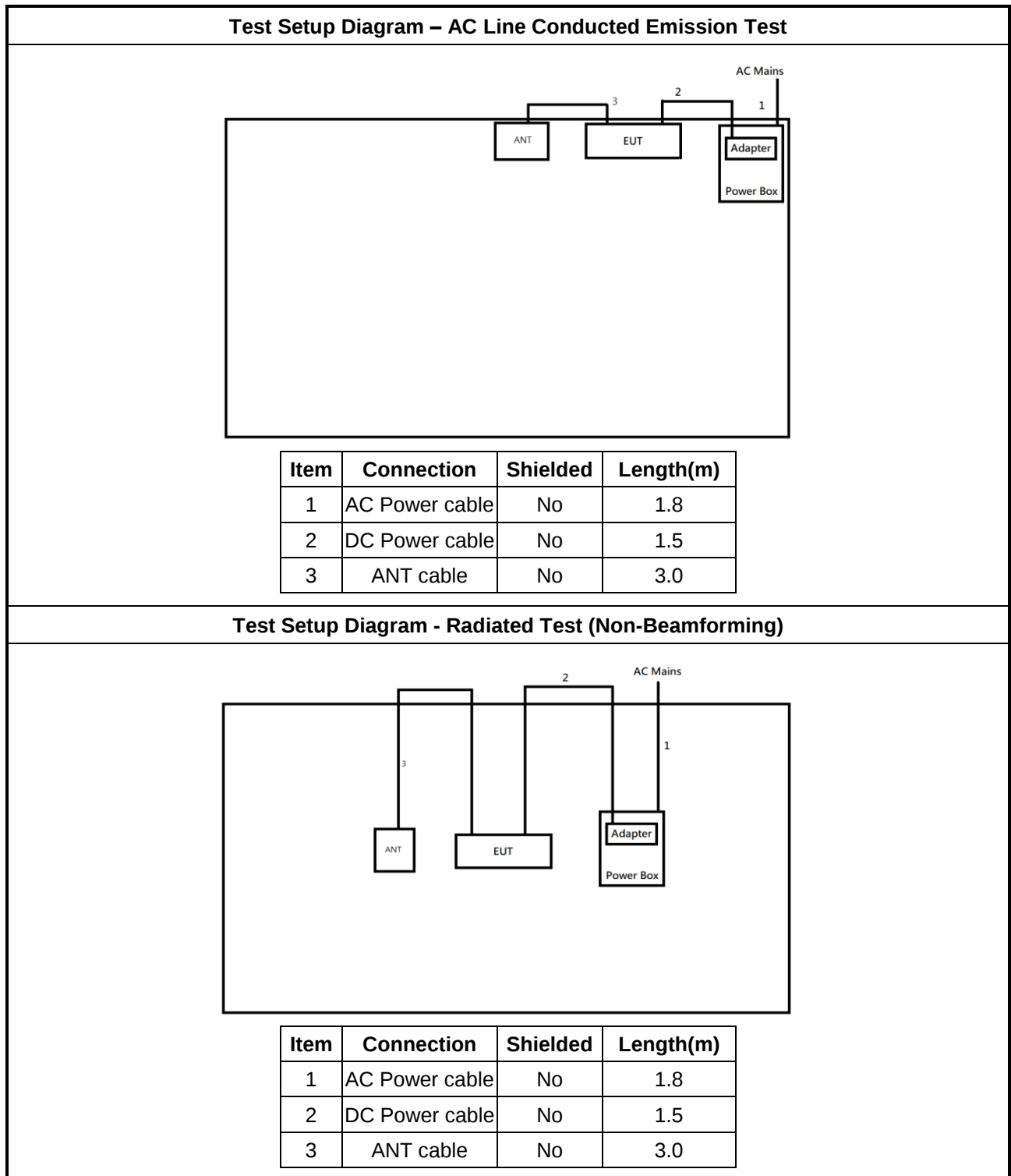
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer

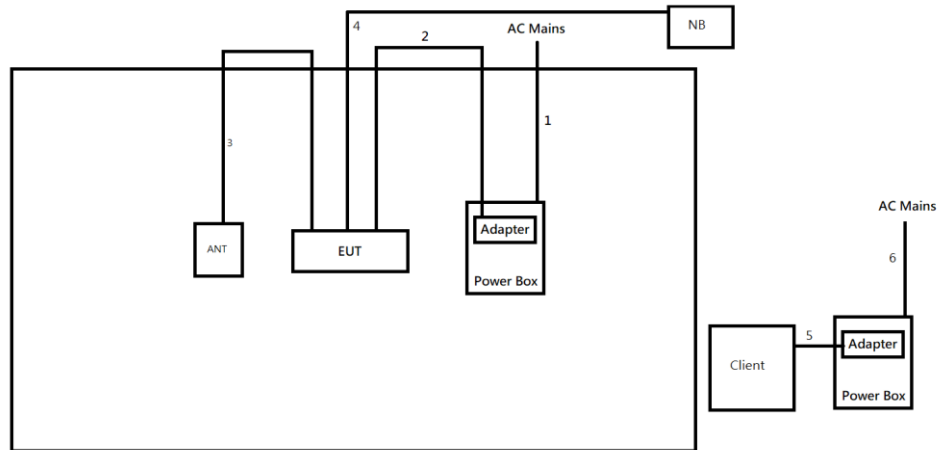
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer
2	RJ45 cable	Power Sync	CAT-6E-01	-	-
3	Notebook	DELL	E5410	-	-

Support Equipment – Contention-Based Protocol					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	Latitude E5550	-	-
2	Notebook	DELL	Latitude E5510	-	-
3	Shielding Box	EMEC	EM-SHB-650550300-M	-	-
4	Client(Slave)	FORTINET	FAP-441K	-	Provided by Customer

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test (Beamforming)


Item	Connection	Shielded	Length(m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.5
3	ANT cable	No	3.0
4	RJ45	No	10.0
5	DC Power cable	No	1.5
6	AC Power cable	No	1.8



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

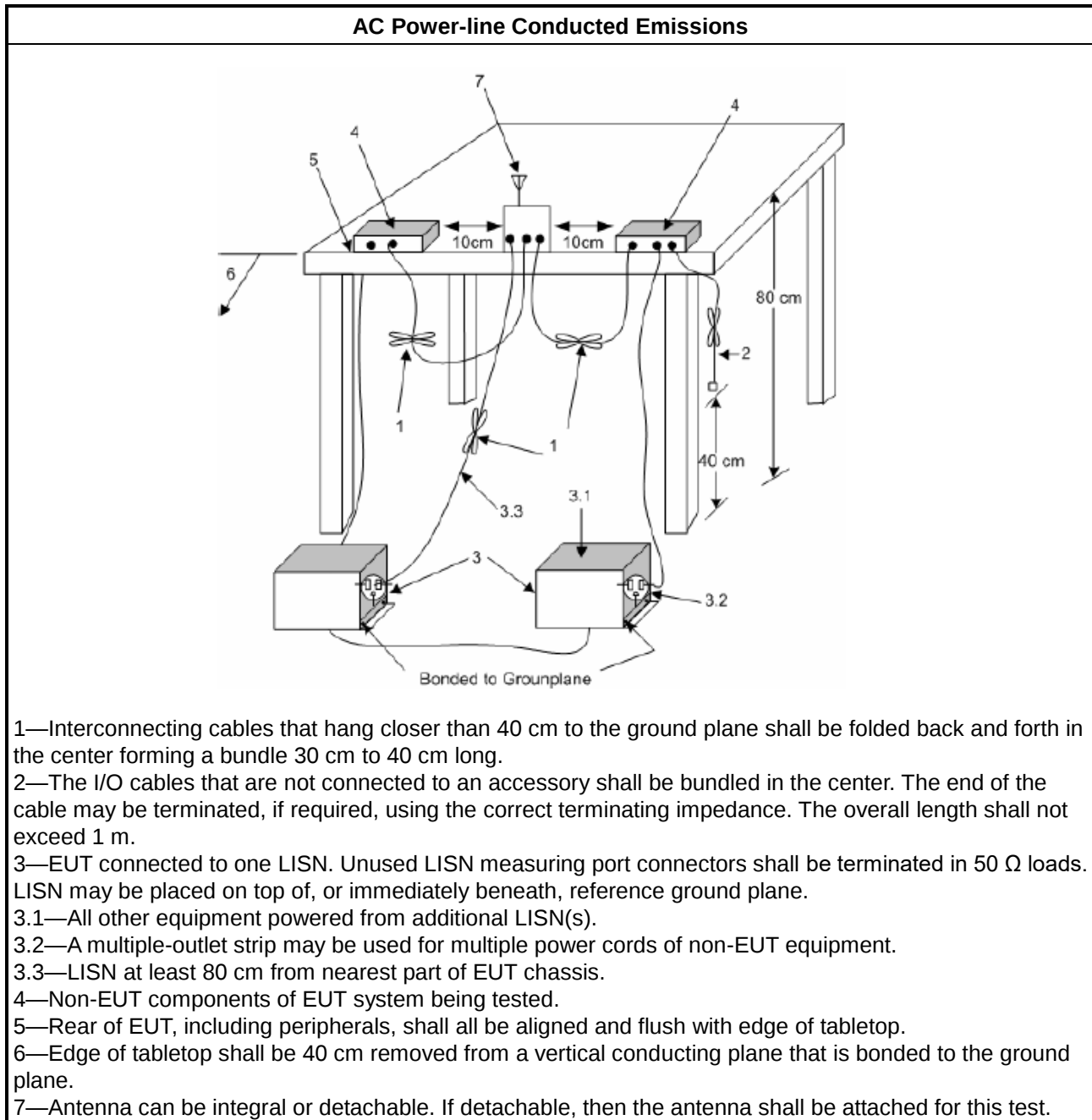
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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

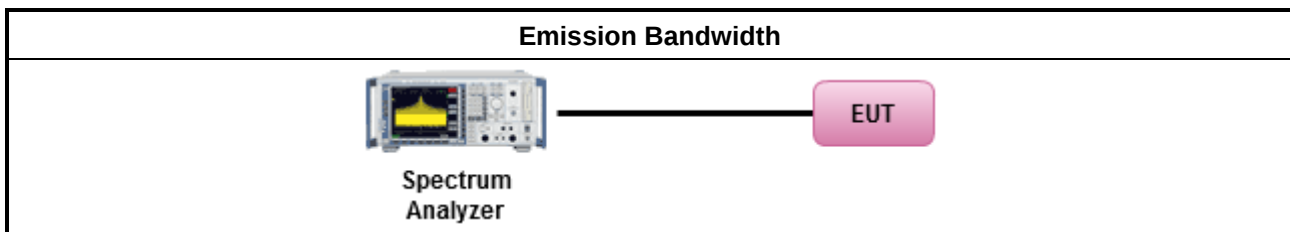
3.2.2 Measuring Instruments

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.

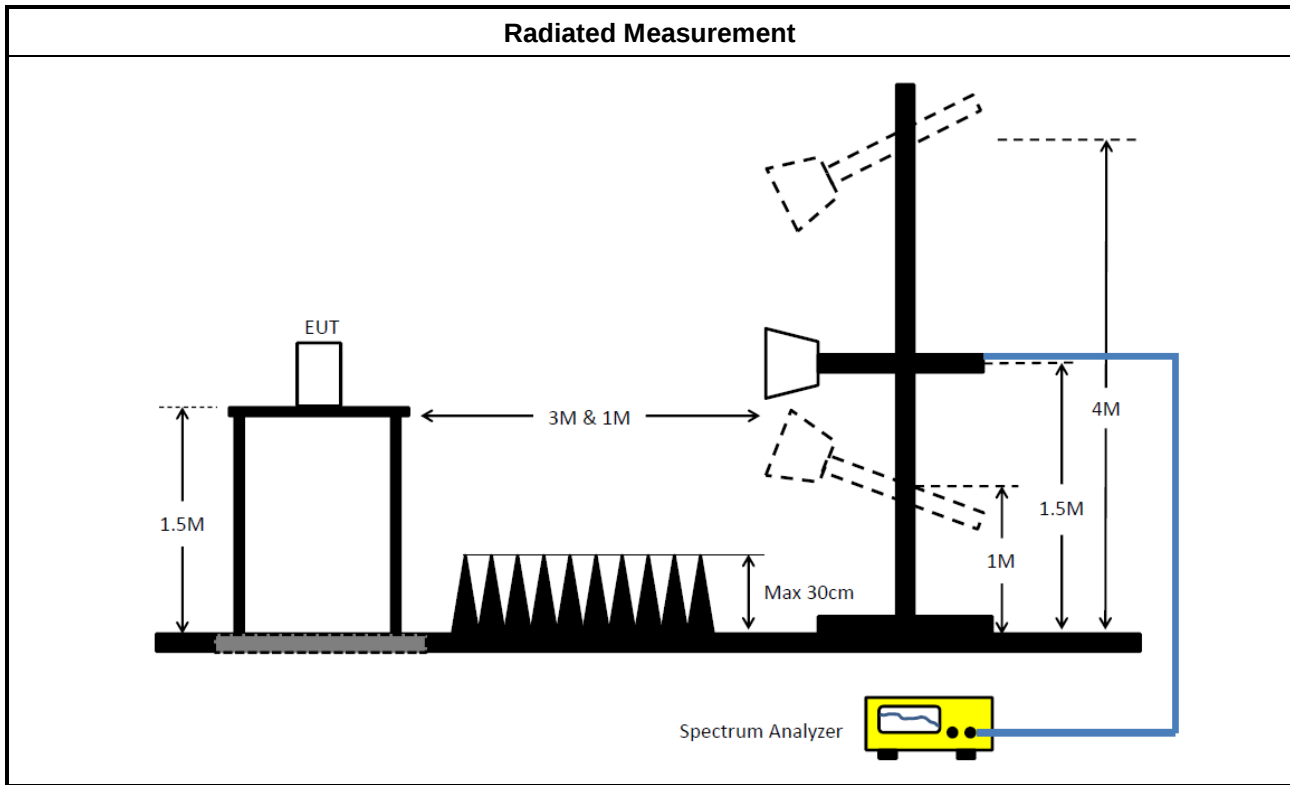
3.3.2 Measuring Instruments

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 Isotopically 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.

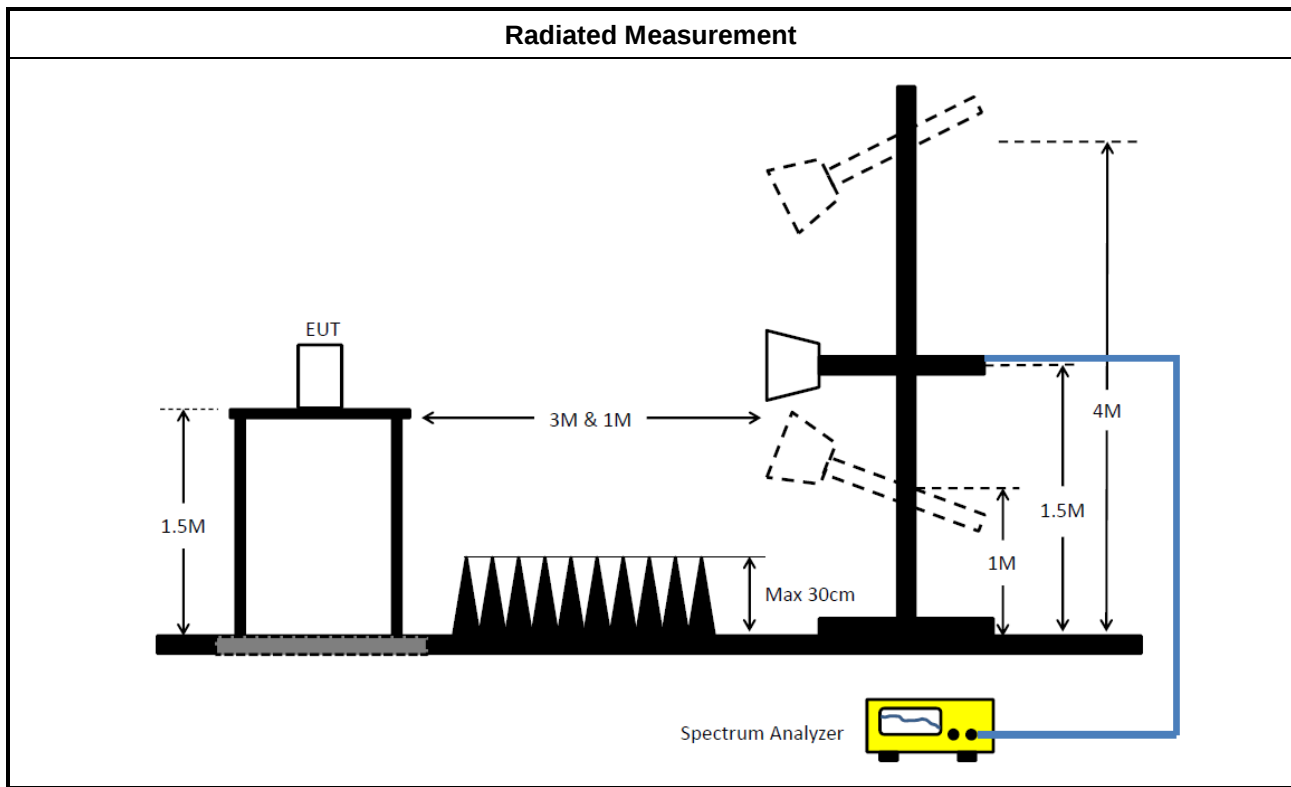
3.4.2 Measuring Instruments

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

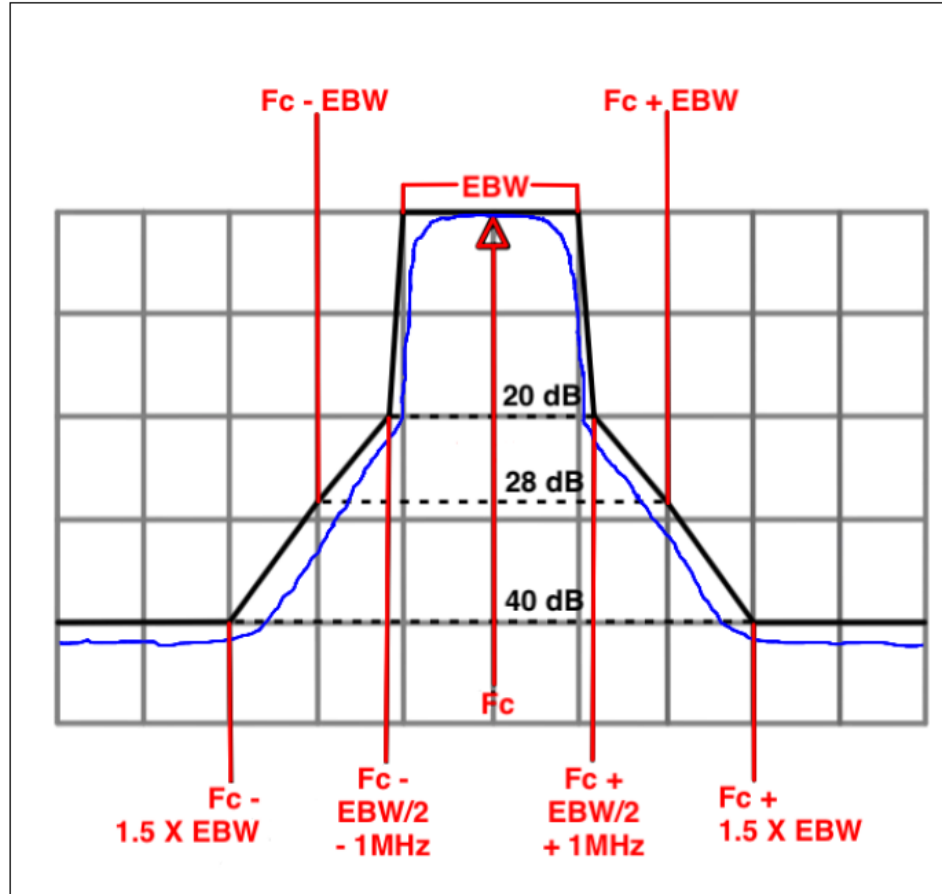
Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance 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.	



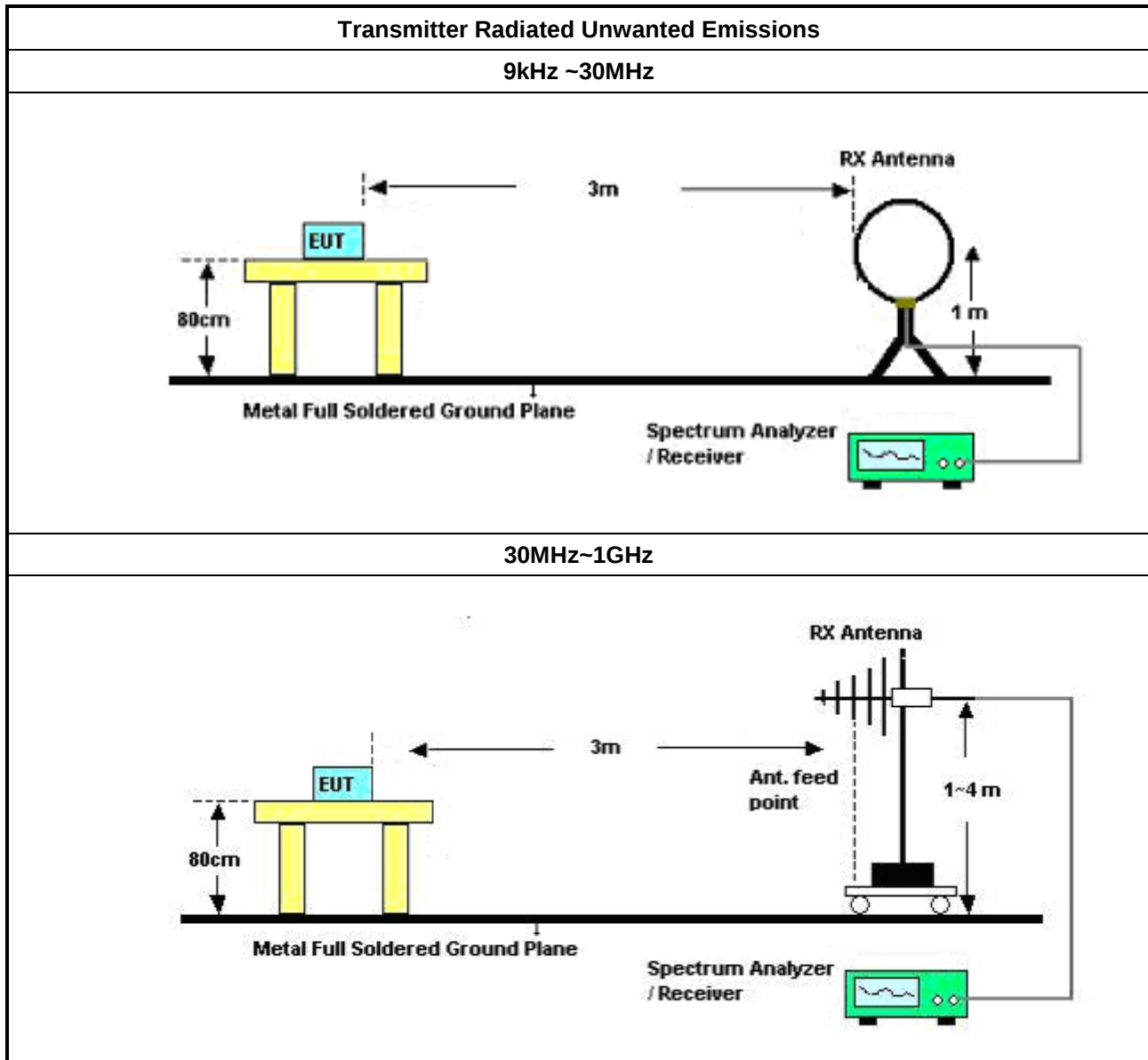
Test Method	
▪ For conducted and cabinet radiation measurement, refer as FCC KDB 789033, clause G)3).	
	▪ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.
▪ 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.

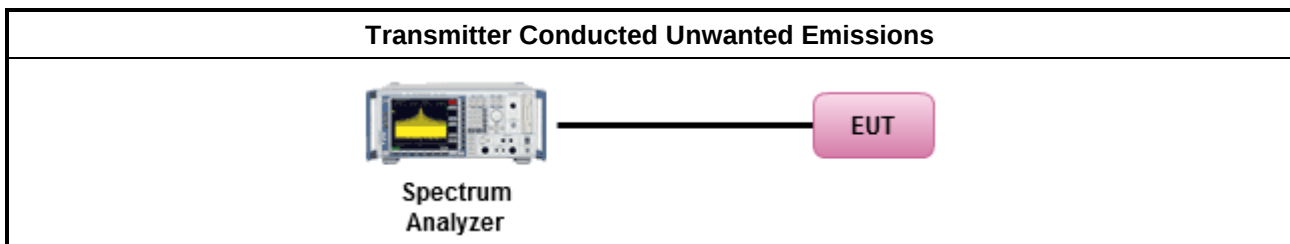
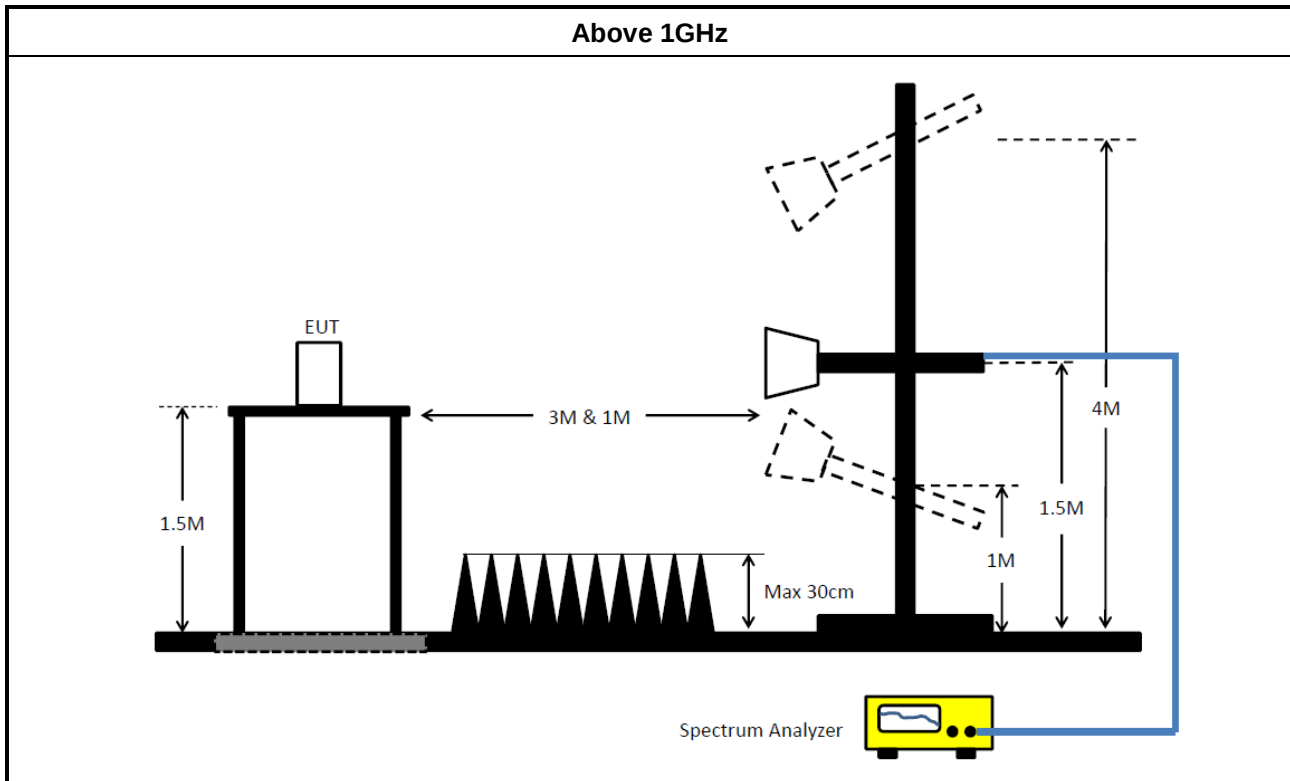
3.5.4 Measurement Results Calculation

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.

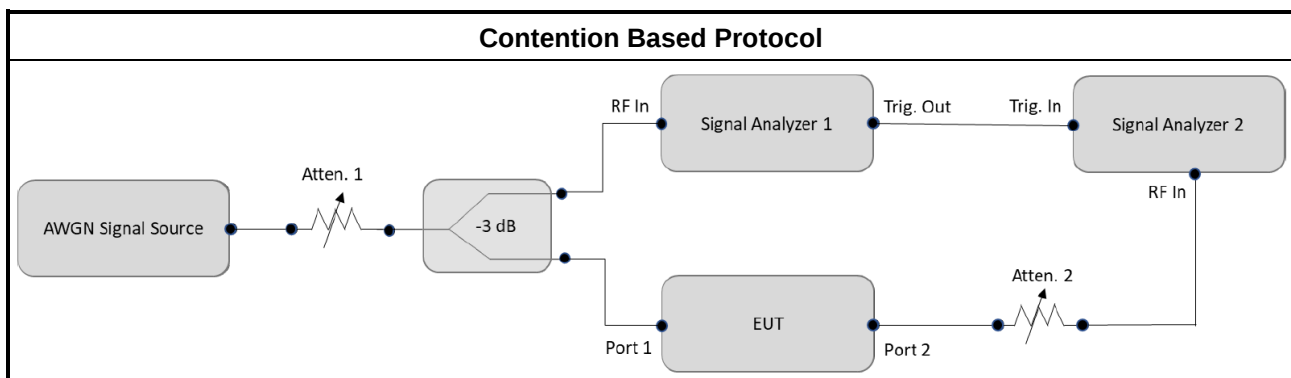
3.6.2 Measuring Instruments

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	R&S	ESR	102051	9kHz ~ 3.6GHz	16/May/2023	15/May/2024
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	07/Sep/2023	06/Sep/2024
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	28/Feb/2023	27/Feb/2024
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
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	101515	9kHz~40GHz	14/Feb/2023	13/Feb/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
SMB100A Signal Generator	R&S	SMB100A03	183621	23kHz~40GHz	30/Nov/2022	29/Nov/2023
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	14/Dec/2022	13/Dec/2023
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	14/Dec/2022	13/Dec/2023
SENSE-15407_NII	Sporton	V5.11.10	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH24-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	30MHz~1GHz 3m	17/Aug/2023	16/Aug/2024
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	03/Aug/2023	02/Aug/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	10/Aug/2023	09/Aug/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	17/Aug/2023	16/Aug/2024
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D01N- 06	35376 / 02	30MHz~1GHz	17/Apr/2023	16/Apr/2024
Pre-Amplifier	Aglient	8447D	2944A06292	30MHz~1GHz	26/Apr/2023	25/Apr/2024
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	10/Aug/2023	09/Aug/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB002	1GHz~40GHz	21/Jul/2023	20/Jul/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB002	9kHz~1GHz	21/Jul/2023	20/Jul/2024
Amplifier	EM	EM18G40G	060604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	21/Aug/2023	20/Aug/2024
Loop Antenna	TESEQ	HLA6120	31244	9kHz~30MHz	23/Mar/2023	22/Mar/2024
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	29/Dec/2022	28/Dec/2023
SENSE-15407_NII	Sporton	V5.11.10	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (03CH02-HY)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	28/Jul/2023	27/Jul/2024
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	25/Mar/2023	24/Mar/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2023	22/Sep/2024
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	03CH02-cable-01	1GHz~40GHz	10/Feb/2023	09/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	15GHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	60604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
SENSE-15407_NII	Sporton	V5.11.13	NA	NA	NA	NA

Instrument for Contention-Based Protocol Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Vector Signal Generator	R&S	SMW200A	111529	100kHz~7.5GHz	20/Mar/2023	19/Mar/2024
Spectrum Analyzer	R&S	FSP40	100593	9 kHz ~ 40 GHz	17/Mar/2023	16/Mar/2024
Adaptivity Analysis-5G	Sporton	Ver 2.8	N/A	N/A	N/A	N/A
DFS-Adaptivity	Sporton	Ver 2.7	N/A	N/A	N/A	N/A

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	09/Aug/2023	08/Aug/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02876	1GHz~18GHz	12/Jul/2023	11/Jul/2024
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz ~18GHz	25/May/2023	24/May/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	1GHz~40GHz	24/Apr/2023	23/Apr/2024
Amplifier	EM	EM18G40G	060604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	21/Aug/2023	20/Aug/2024
SENSE-EMI	V5.10.11	NA	NA	NA	NA	NA



Conducted Emissions at Powerline_Non-Beamforming_Radio 3 Appendix A

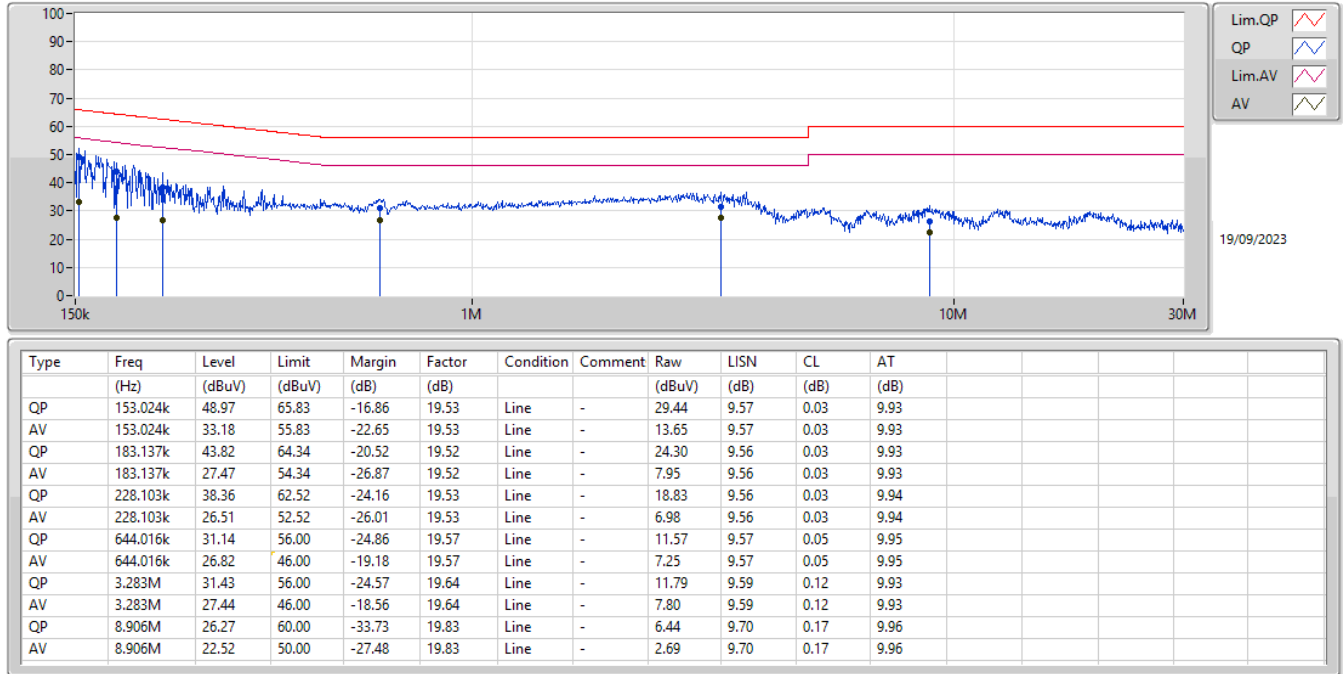
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	49.38	66.00	-16.62	Neutral

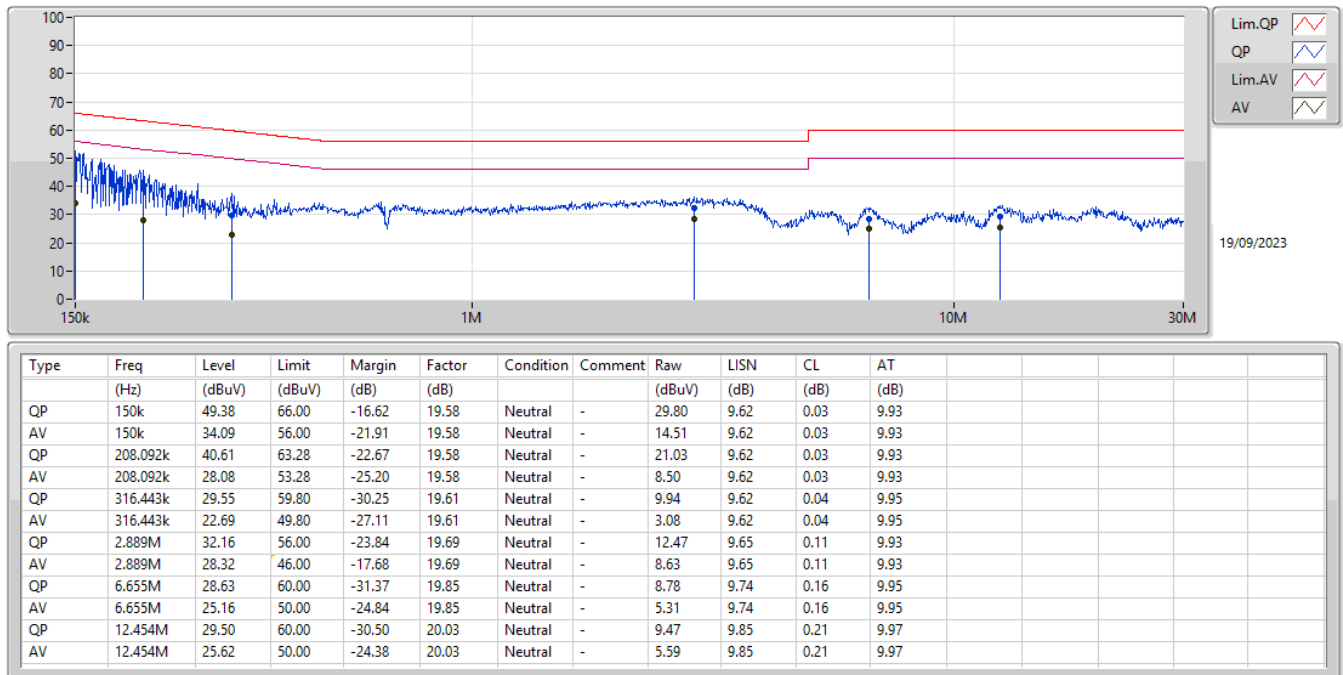
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.024k	48.97	65.83	-16.86	Line
Mode 1	Pass	AV	153.024k	33.18	55.83	-22.65	Line
Mode 1	Pass	QP	183.137k	43.82	64.34	-20.52	Line
Mode 1	Pass	AV	183.137k	27.47	54.34	-26.87	Line
Mode 1	Pass	QP	228.103k	38.36	62.52	-24.16	Line
Mode 1	Pass	AV	228.103k	26.51	52.52	-26.01	Line
Mode 1	Pass	QP	644.016k	31.14	56.00	-24.86	Line
Mode 1	Pass	AV	644.016k	26.82	46.00	-19.18	Line
Mode 1	Pass	QP	3.283M	31.43	56.00	-24.57	Line
Mode 1	Pass	AV	3.283M	27.44	46.00	-18.56	Line
Mode 1	Pass	QP	8.906M	26.27	60.00	-33.73	Line
Mode 1	Pass	AV	8.906M	22.52	50.00	-27.48	Line
Mode 1	Pass	QP	150k	49.38	66.00	-16.62	Neutral
Mode 1	Pass	AV	150k	34.09	56.00	-21.91	Neutral
Mode 1	Pass	QP	208.092k	40.61	63.28	-22.67	Neutral
Mode 1	Pass	AV	208.092k	28.08	53.28	-25.20	Neutral
Mode 1	Pass	QP	316.443k	29.55	59.80	-30.25	Neutral
Mode 1	Pass	AV	316.443k	22.69	49.80	-27.11	Neutral
Mode 1	Pass	QP	2.889M	32.16	56.00	-23.84	Neutral
Mode 1	Pass	AV	2.889M	28.32	46.00	-17.68	Neutral
Mode 1	Pass	QP	6.655M	28.63	60.00	-31.37	Neutral
Mode 1	Pass	AV	6.655M	25.16	50.00	-24.84	Neutral
Mode 1	Pass	QP	12.454M	29.50	60.00	-30.50	Neutral
Mode 1	Pass	AV	12.454M	25.62	50.00	-24.38	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	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	22.66M	19.065M	19M1D1D	21.505M	18.991M
802.11be EHT40_Nss1,(MCS0)_4TX	44.11M	37.981M	38M0D1D	41.69M	37.881M
802.11be EHT80_Nss1,(MCS0)_4TX	91.3M	77.761M	77M8D1D	85.8M	77.461M
802.11be EHT160_Nss1,(MCS0)_4TX	171.6M	156.922M	157MD1D	162.8M	156.322M
802.11be EHT320_Nss1,(MCS0)_4TX	344.96M	316.642M	317MD1D	336.16M	315.042M
6.425-6.525GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	23.54M	19.065M	19M1D1D	21.285M	18.991M
802.11be EHT40_Nss1,(MCS0)_4TX	43.67M	38.081M	38M1D1D	41.25M	37.831M
802.11be EHT80_Nss1,(MCS0)_4TX	88.88M	77.761M	77M8D1D	84.48M	77.561M
802.11be EHT160_Nss1,(MCS0)_4TX	169.84M	156.922M	157MD1D	165.88M	156.522M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	23.265M	19.065M	19M1D1D	21.56M	18.966M
802.11be EHT40_Nss1,(MCS0)_4TX	43.45M	38.081M	38M1D1D	41.14M	37.931M
802.11be EHT80_Nss1,(MCS0)_4TX	90.86M	77.761M	77M8D1D	83.16M	77.561M
802.11be EHT160_Nss1,(MCS0)_4TX	171.6M	157.121M	157MD1D	168.08M	156.522M
802.11be EHT320_Nss1,(MCS0)_4TX	343.2M	316.242M	316MD1D	335.28M	315.042M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	23.485M	19.09M	19M1D1D	21.34M	18.991M
802.11be EHT40_Nss1,(MCS0)_4TX	44.33M	38.031M	38M0D1D	42.02M	37.931M
802.11be EHT80_Nss1,(MCS0)_4TX	91.3M	77.761M	77M8D1D	86.24M	77.561M
802.11be EHT160_Nss1,(MCS0)_4TX	171.6M	156.922M	157MD1D	168.52M	156.322M
802.11be EHT320_Nss1,(MCS0)_4TX	340.56M	315.042M	315MD1D	337.04M	314.243M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	22.66M	18.991M	22.165M	19.015M	22.495M	19.015M	22.44M	19.04M
6195MHz	Pass	Inf	22M	19.04M	21.505M	19.065M	22.055M	18.991M	21.67M	19.065M
6415MHz	Pass	Inf	22.11M	19.015M	22.33M	19.04M	22.275M	19.04M	21.505M	19.015M
6435MHz	Pass	Inf	21.285M	18.991M	21.835M	18.991M	22.495M	19.015M	21.78M	19.015M
6475MHz	Pass	Inf	21.34M	19.015M	22.22M	19.065M	21.615M	19.015M	22.33M	19.015M
6515MHz	Pass	Inf	22.33M	19.065M	21.67M	19.065M	21.67M	19.04M	23.54M	19.015M
6535MHz	Pass	Inf	22.605M	19.015M	22.605M	19.015M	22.935M	18.991M	22.165M	18.966M
6695MHz	Pass	Inf	22.055M	19.015M	22.11M	19.04M	21.56M	19.065M	21.56M	19.04M
6875MHz	Pass	Inf	23.265M	19.015M	22.33M	18.991M	22.44M	19.04M	23.045M	19.065M
6895MHz	Pass	Inf	22M	18.991M	22.385M	19.04M	21.78M	19.04M	23.485M	19.065M
6995MHz	Pass	Inf	22.33M	19.015M	21.34M	19.015M	21.45M	18.991M	22M	19.015M
7095MHz	Pass	Inf	22.88M	19.015M	22.22M	18.991M	22M	19.015M	23.1M	18.991M
7115MHz	Pass	Inf	22.55M	19.015M	22.11M	19.09M	22.495M	19.015M	22.055M	19.015M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	43.12M	37.981M	42.35M	37.981M	43.12M	37.931M	42.57M	37.981M
6205MHz	Pass	Inf	42.68M	37.981M	42.57M	37.931M	44.11M	37.881M	42.02M	37.981M
6405MHz	Pass	Inf	41.69M	37.981M	43.01M	37.931M	43.01M	37.931M	42.68M	37.931M
6445MHz	Pass	Inf	43.23M	38.031M	42.02M	37.981M	43.12M	38.031M	43.23M	38.031M
6485MHz	Pass	Inf	41.25M	37.981M	41.8M	38.031M	42.24M	37.981M	43.45M	37.831M
6525MHz	Pass	Inf	43.67M	37.981M	41.91M	37.981M	43.01M	38.031M	42.46M	38.081M
6565MHz	Pass	Inf	43.45M	37.981M	41.8M	38.081M	42.46M	38.031M	41.47M	37.931M
6685MHz	Pass	Inf	42.02M	38.031M	42.46M	37.981M	43.01M	37.931M	42.68M	37.981M
6885MHz	Pass	Inf	41.14M	38.031M	42.24M	38.031M	42.79M	37.931M	43.34M	37.931M
6925MHz	Pass	Inf	43.78M	37.981M	44.33M	37.981M	43.56M	37.931M	43.23M	37.931M
7005MHz	Pass	Inf	42.68M	38.031M	43.01M	37.931M	42.35M	37.981M	42.02M	37.931M
7085MHz	Pass	Inf	42.35M	37.981M	43.45M	37.931M	42.68M	38.031M	44.11M	37.931M
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	86.02M	77.561M	85.8M	77.461M	86.68M	77.461M	86.9M	77.461M
6225MHz	Pass	Inf	88M	77.661M	87.56M	77.561M	91.3M	77.761M	87.34M	77.561M
6385MHz	Pass	Inf	89.1M	77.661M	88.66M	77.561M	87.34M	77.661M	86.9M	77.661M
6465MHz	Pass	Inf	87.78M	77.661M	84.48M	77.761M	85.14M	77.561M	84.92M	77.661M
6545MHz	Pass	Inf	88.88M	77.561M	86.9M	77.661M	85.36M	77.661M	86.9M	77.561M
6625MHz	Pass	Inf	85.14M	77.561M	83.16M	77.761M	85.58M	77.661M	87.78M	77.661M
6705MHz	Pass	Inf	90.86M	77.661M	89.32M	77.761M	86.02M	77.661M	88.66M	77.761M
6785MHz	Pass	Inf	87.78M	77.761M	88.22M	77.761M	87.34M	77.661M	89.76M	77.561M
6865MHz	Pass	Inf	90.42M	77.661M	86.68M	77.761M	89.1M	77.661M	86.24M	77.561M
6945MHz	Pass	Inf	91.3M	77.561M	88.44M	77.561M	87.12M	77.661M	87.12M	77.561M
7025MHz	Pass	Inf	88.44M	77.761M	86.24M	77.761M	87.78M	77.761M	86.46M	77.661M
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	171.6M	156.522M	167.2M	156.322M	166.76M	156.322M	166.76M	156.322M
6185MHz	Pass	Inf	170.28M	156.922M	168.08M	156.522M	170.72M	156.722M	167.2M	156.922M
6345MHz	Pass	Inf	165M	156.922M	162.8M	156.322M	166.32M	156.522M	168.08M	156.722M
6505MHz	Pass	Inf	168.96M	156.922M	169.84M	156.722M	166.76M	156.922M	165.88M	156.522M
6665MHz	Pass	Inf	168.96M	156.922M	168.96M	156.922M	169.4M	156.722M	170.72M	157.121M
6825MHz	Pass	Inf	170.28M	156.722M	171.6M	156.922M	169.4M	156.522M	168.08M	156.722M
6985MHz	Pass	Inf	171.6M	156.922M	168.52M	156.722M	169.84M	156.322M	168.96M	156.522M
802.11be EHT320_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6105MHz	Pass	Inf	344.96M	315.842M	336.16M	315.842M	337.04M	315.042M	337.92M	315.442M
6265MHz	Pass	Inf	342.32M	316.242M	340.56M	315.442M	342.32M	316.242M	341.44M	315.442M
6425MHz	Pass	Inf	341.44M	316.642M	340.56M	315.042M	338.8M	316.642M	337.92M	315.842M
6585MHz	Pass	Inf	343.2M	316.242M	337.92M	315.842M	337.92M	315.842M	335.28M	316.242M
6745MHz	Pass	Inf	337.92M	315.842M	340.56M	315.842M	337.92M	315.042M	336.16M	315.842M
6905MHz	Pass	Inf	338.8M	315.042M	338.8M	315.042M	337.04M	314.643M	340.56M	314.243M

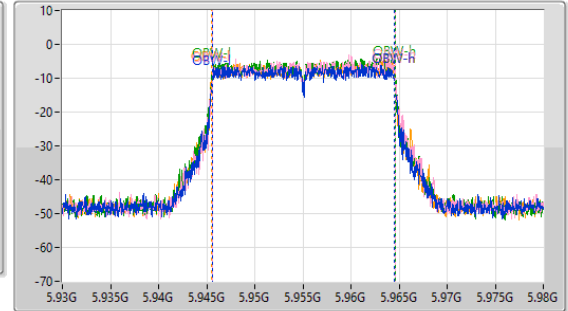
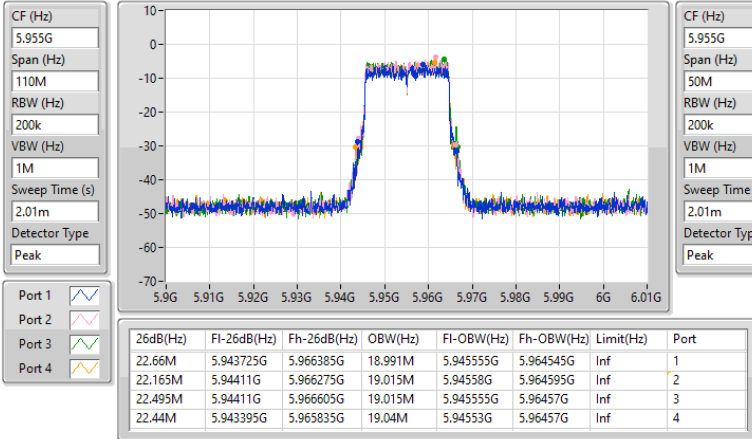
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5955MHz

04/09/2023

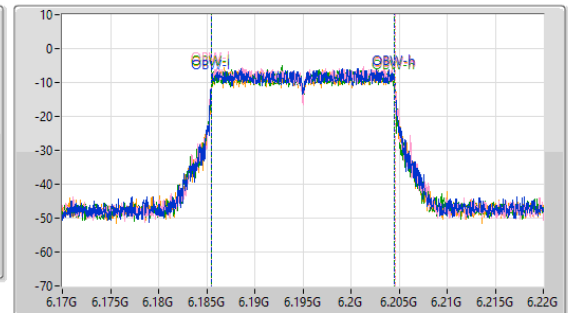
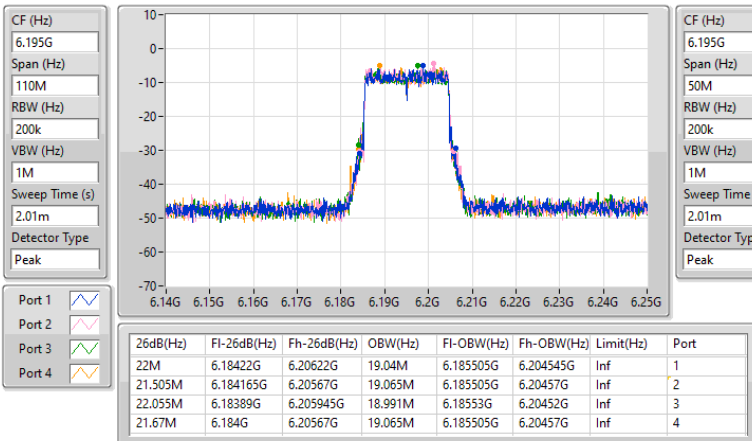


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6195MHz

04/09/2023

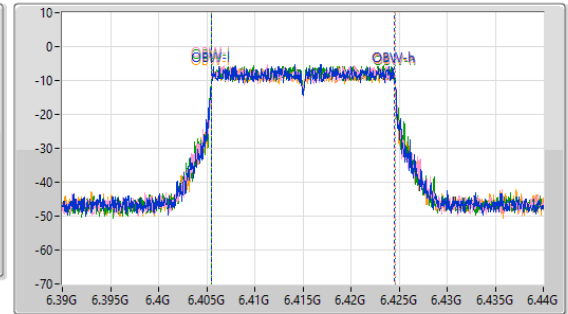
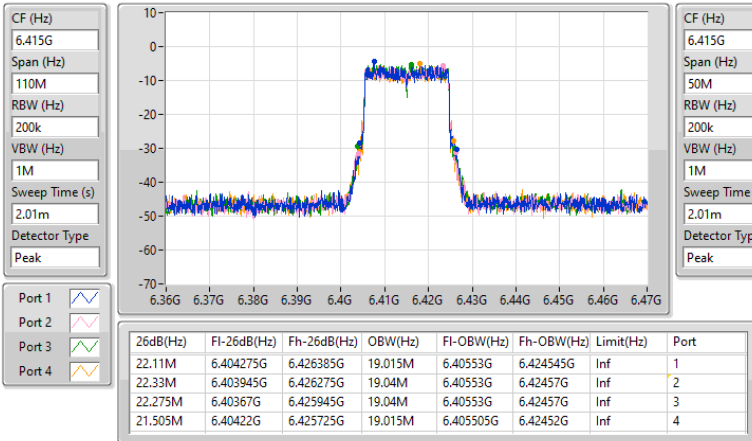


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6415MHz

04/09/2023

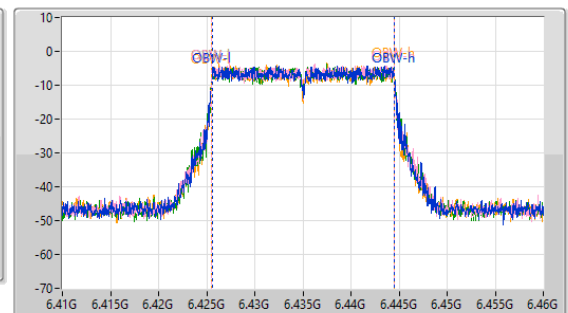
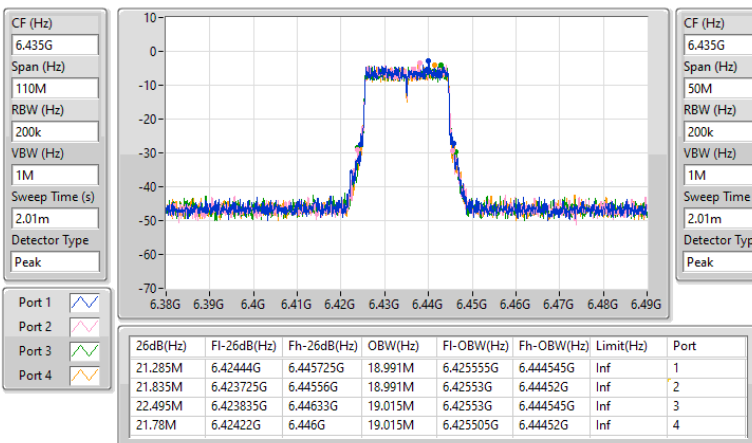


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6435MHz

04/09/2023

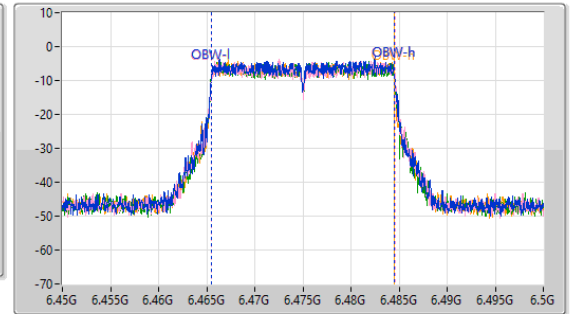
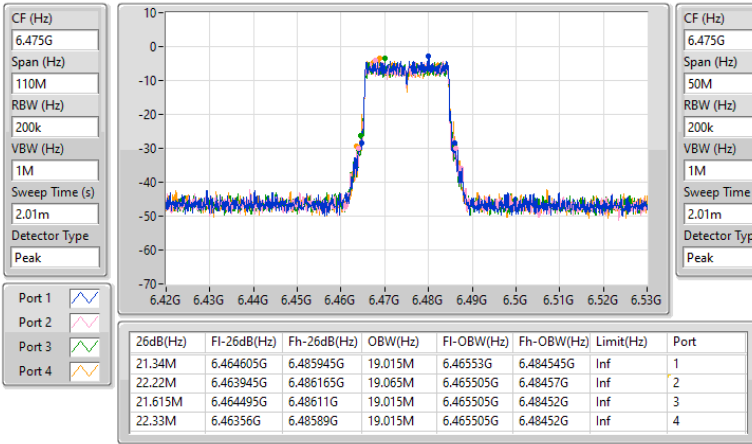


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6475MHz

04/09/2023

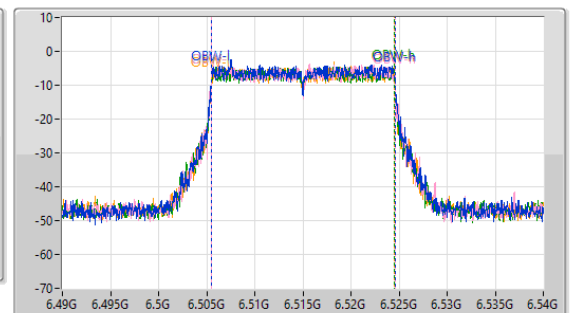
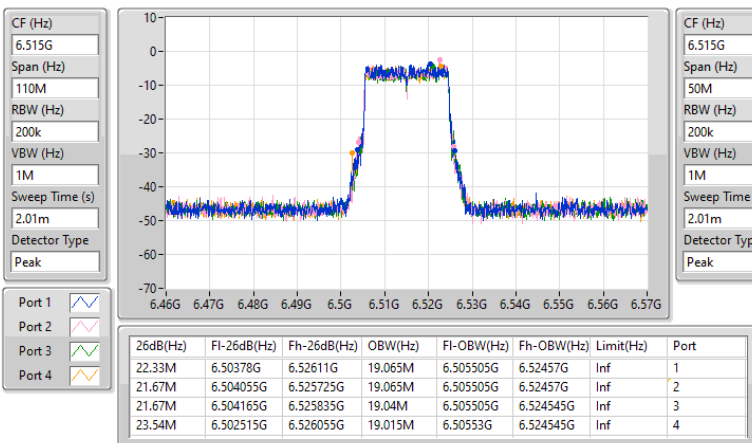


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6515MHz

04/09/2023

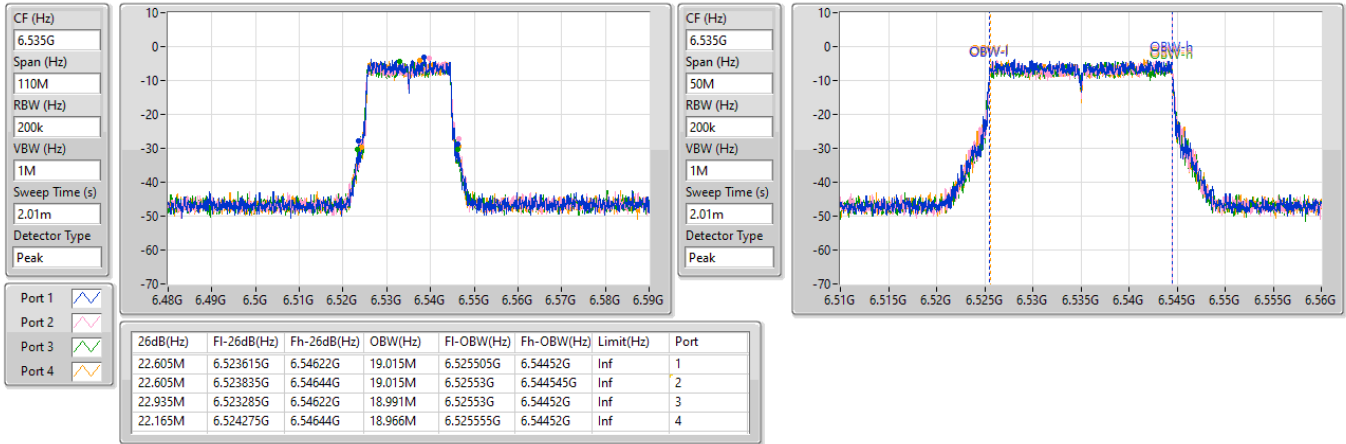


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6535MHz

04/09/2023

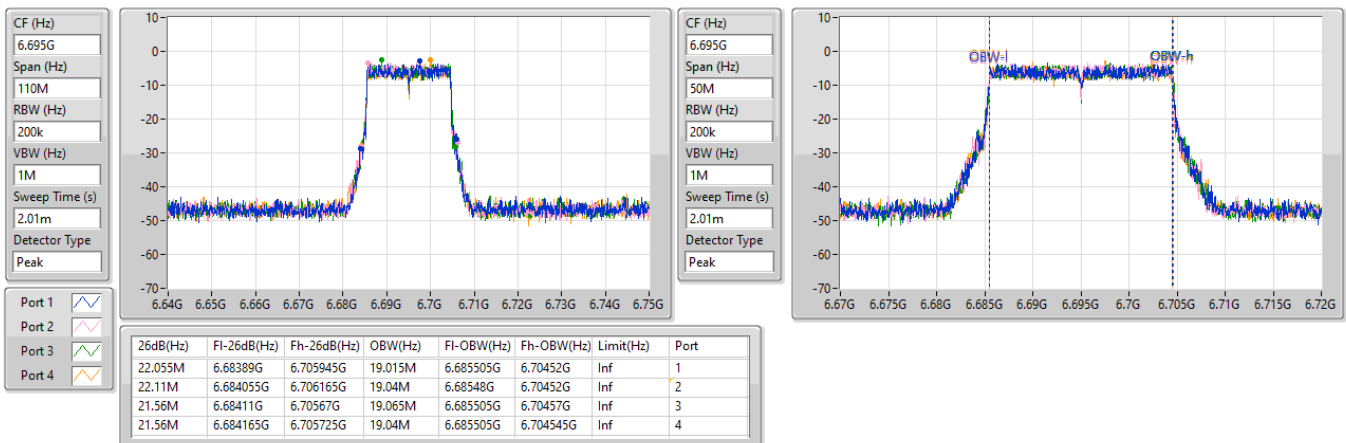


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6695MHz

04/09/2023

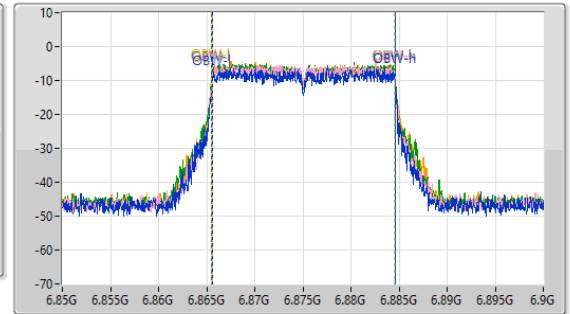
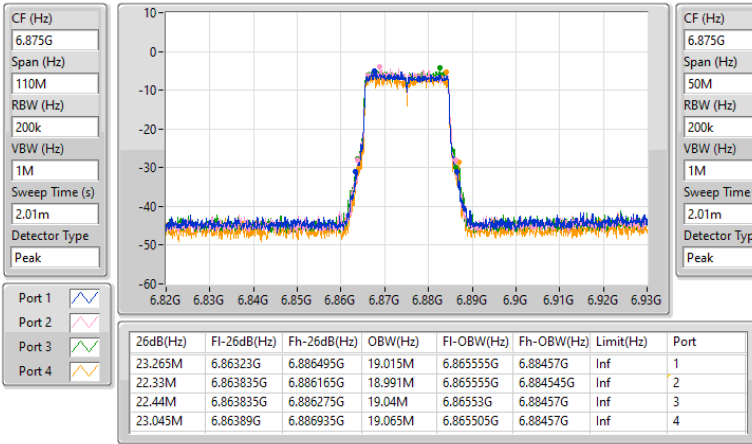


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6875MHz

07/09/2023

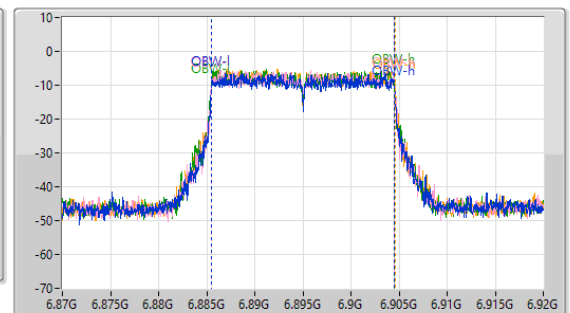
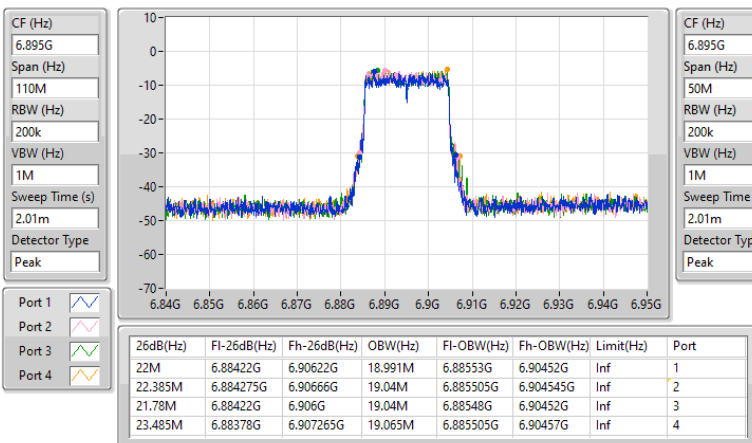


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6895MHz

04/09/2023

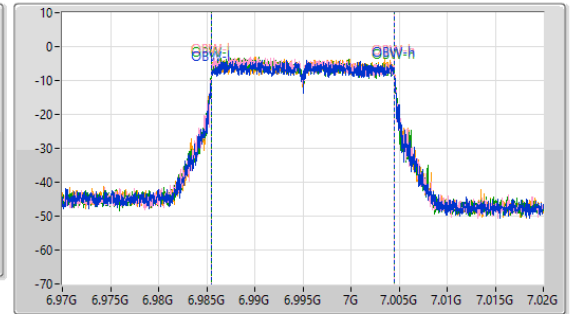
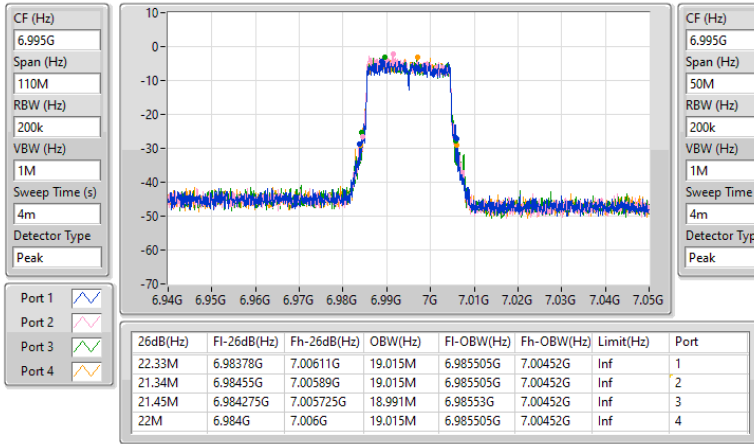


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6995MHz

04/09/2023

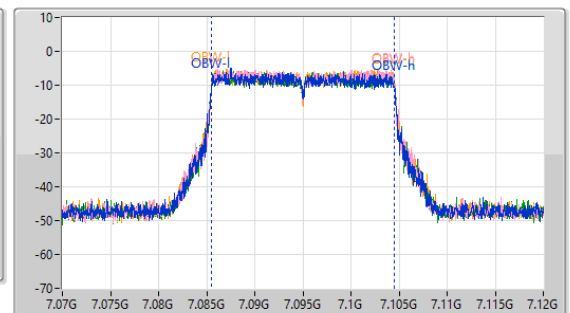
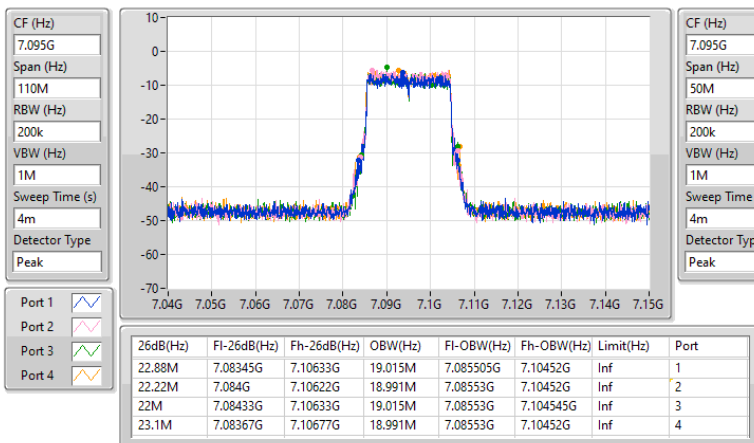


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

7095MHz

04/09/2023

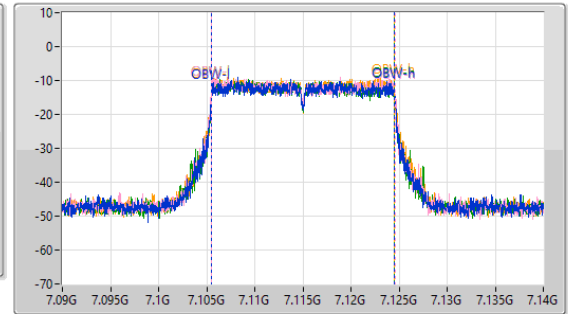
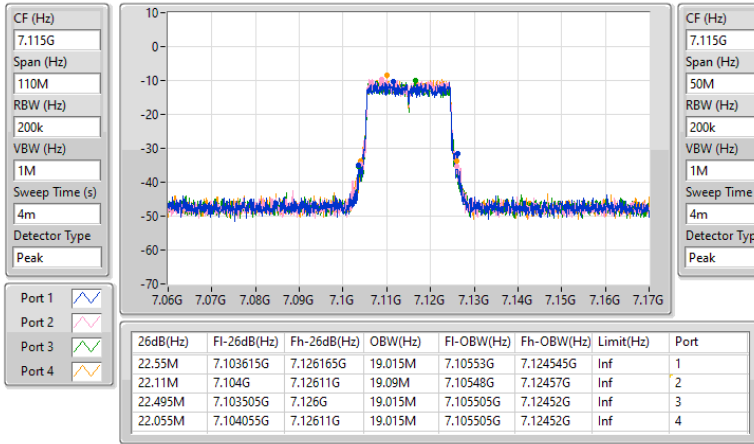


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

7115MHz

04/09/2023

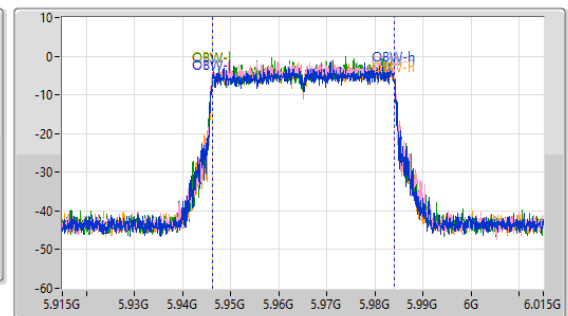
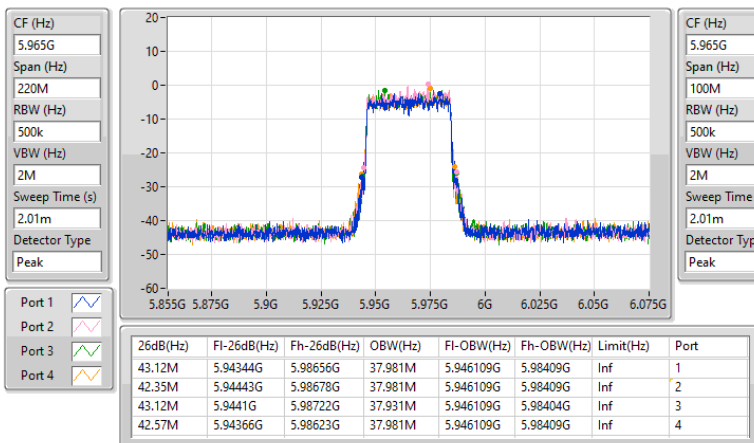


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5965MHz

04/09/2023

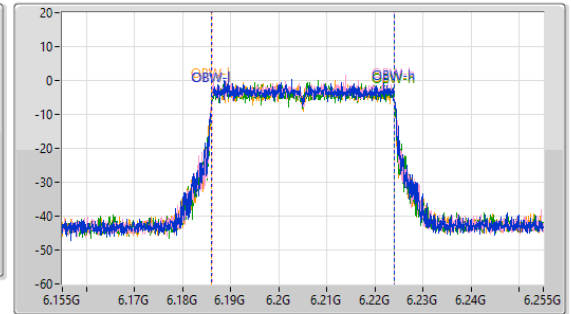
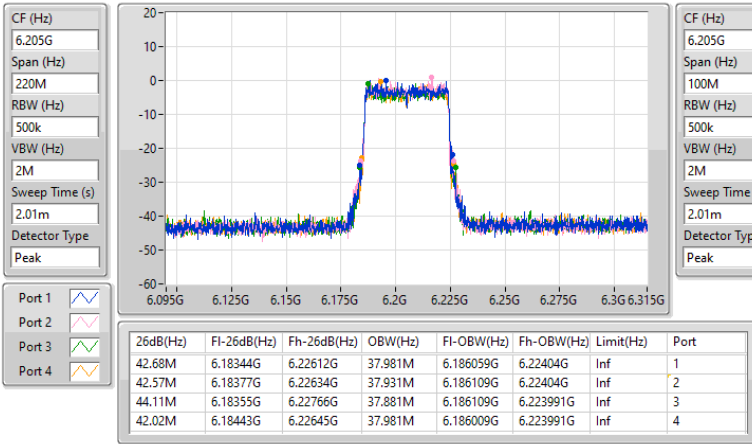


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6205MHz

04/09/2023

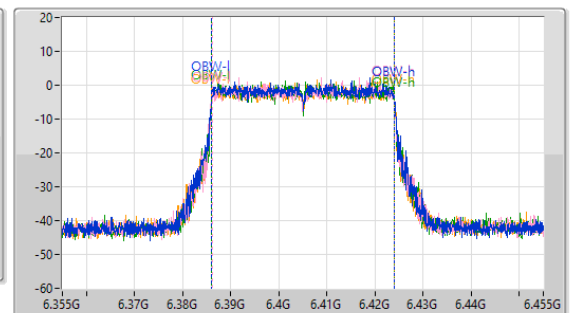
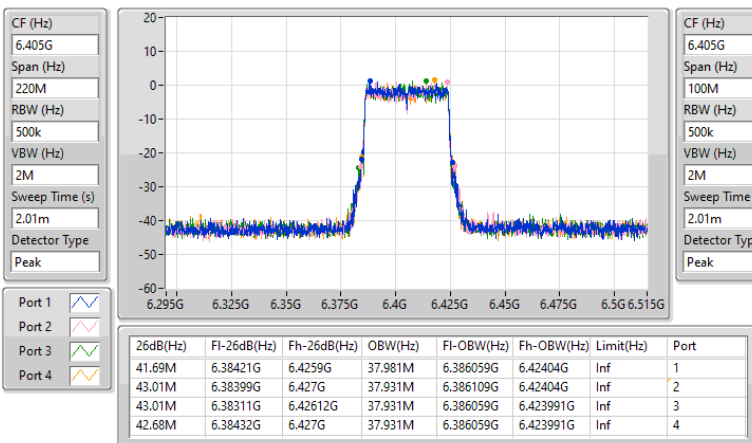


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6405MHz

04/09/2023

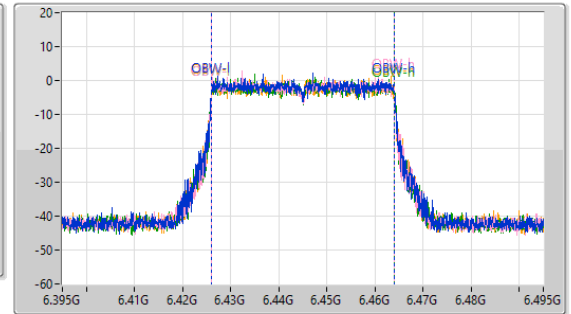
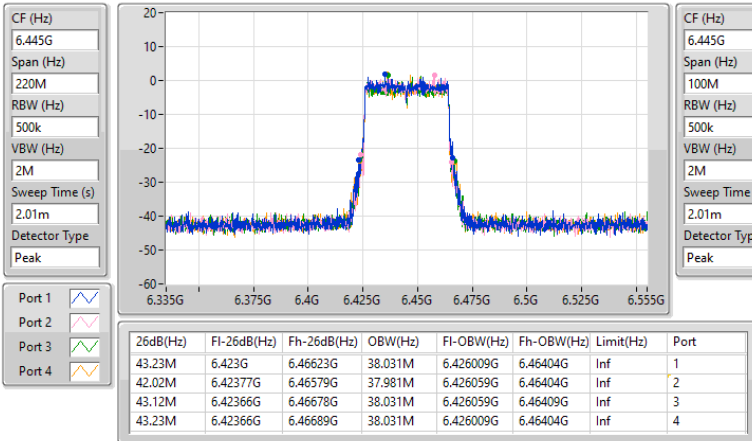


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6445MHz

04/09/2023

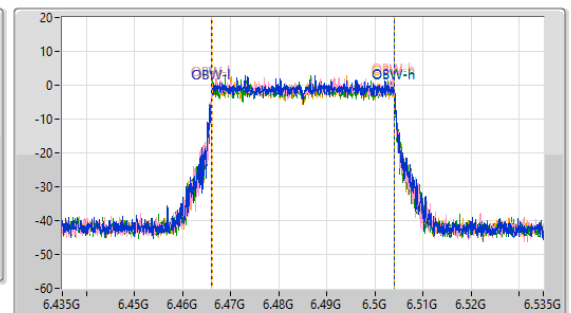
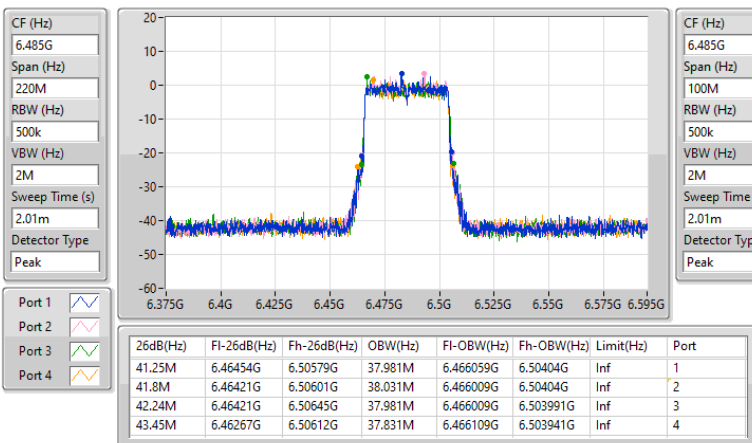


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6485MHz

04/09/2023

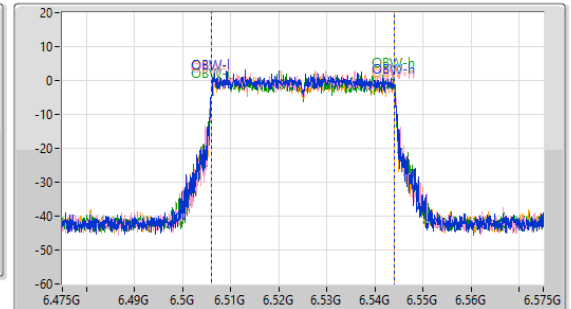
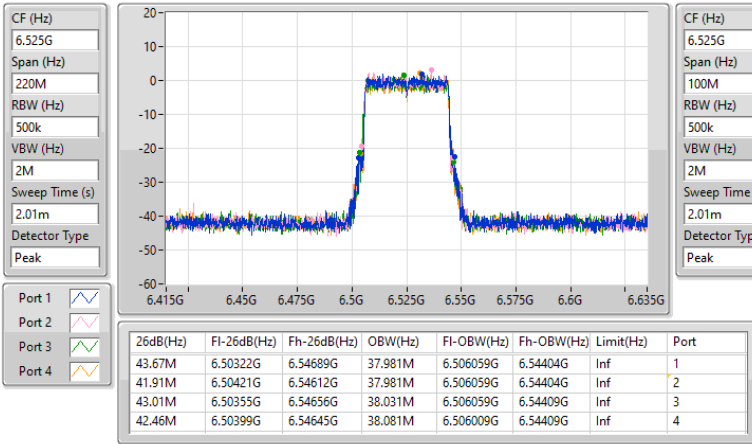


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6525MHz

04/09/2023

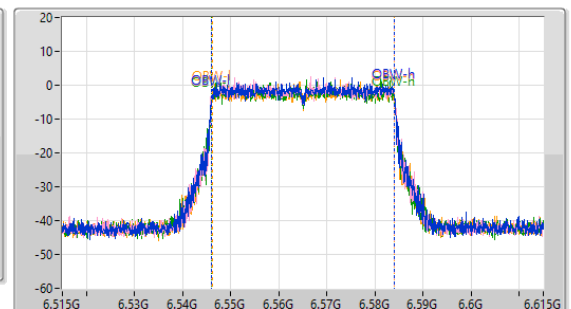
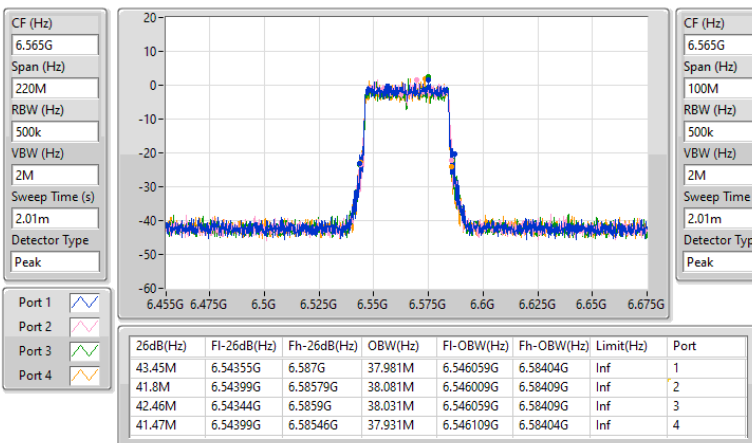


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6565MHz

04/09/2023

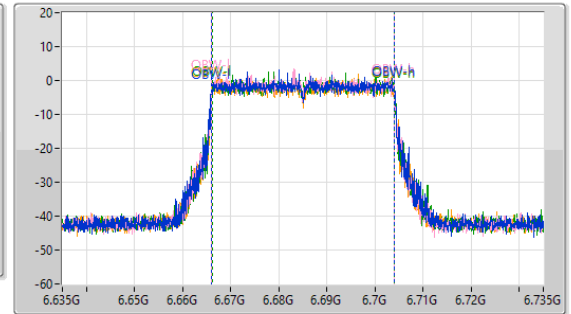
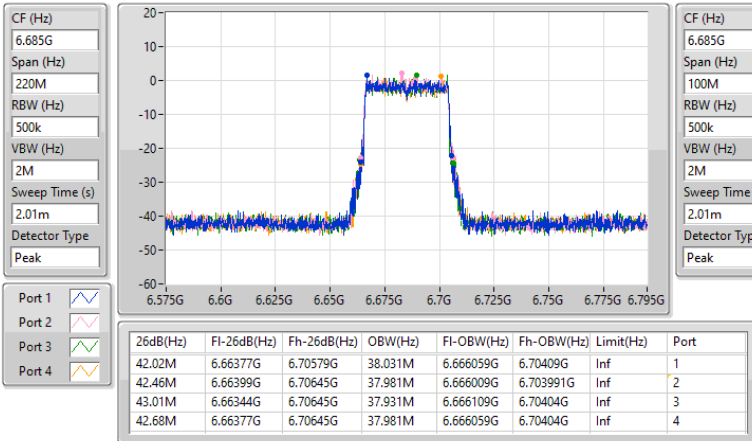


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6685MHz

04/09/2023

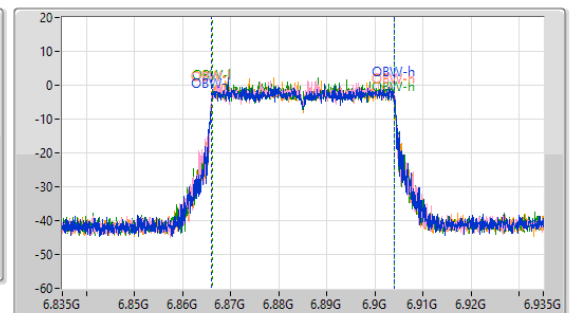
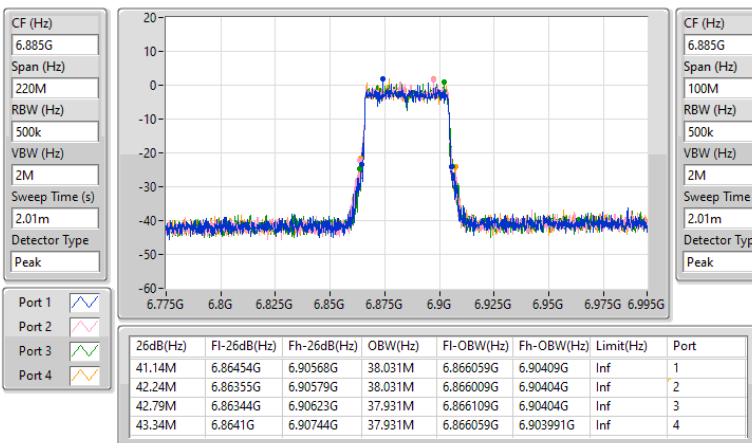


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6685MHz

04/09/2023

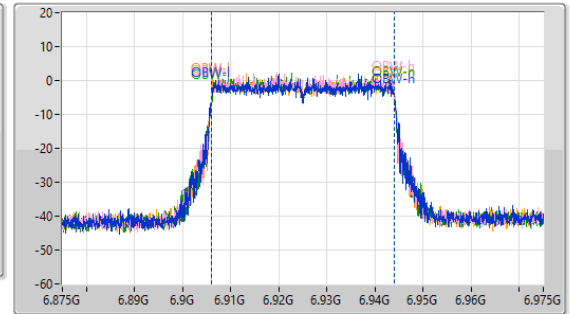
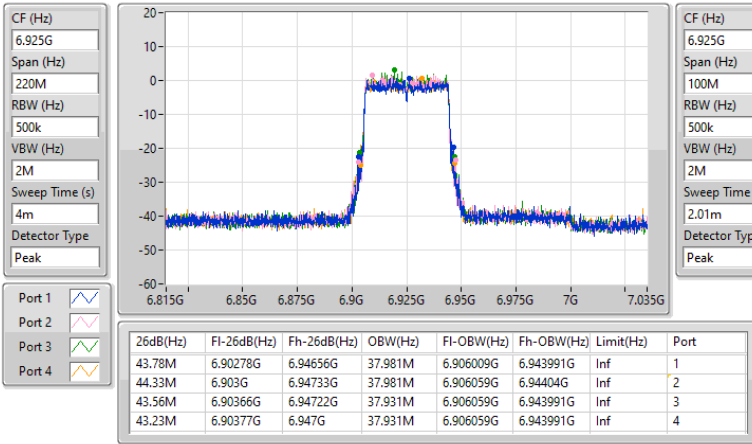


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6925MHz

04/09/2023

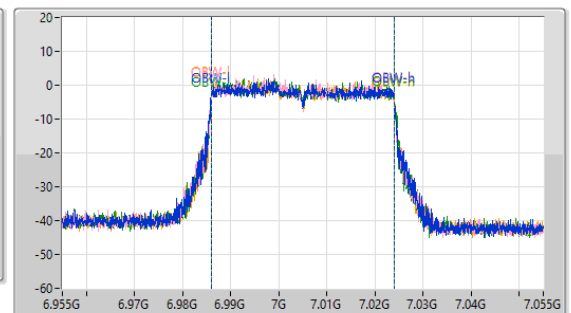
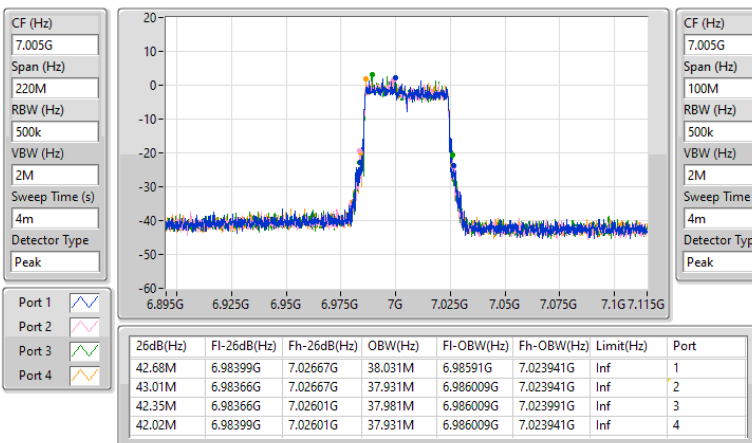


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

7005MHz

04/09/2023

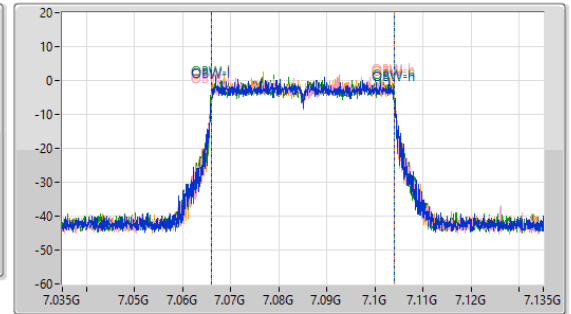
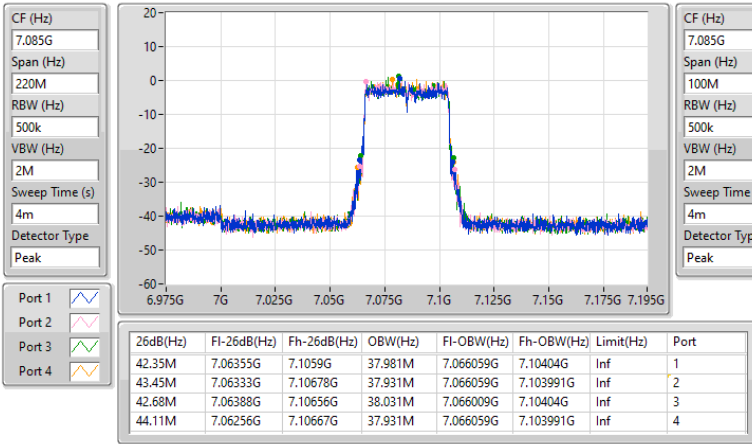


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

7085MHz

04/09/2023

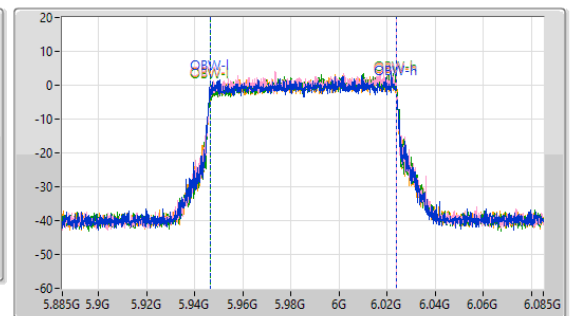
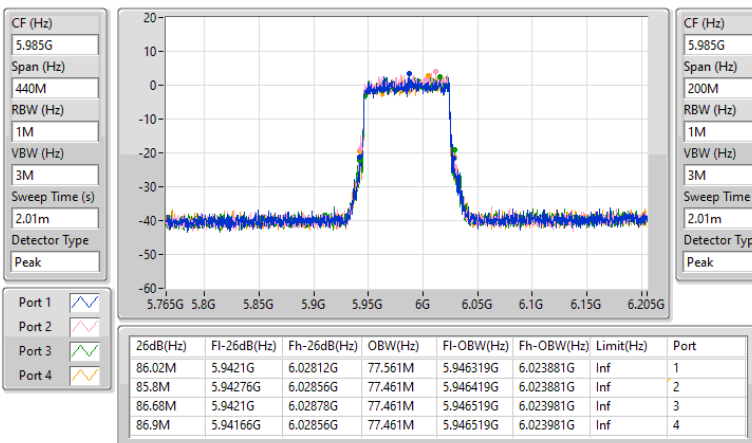


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5985MHz

04/09/2023

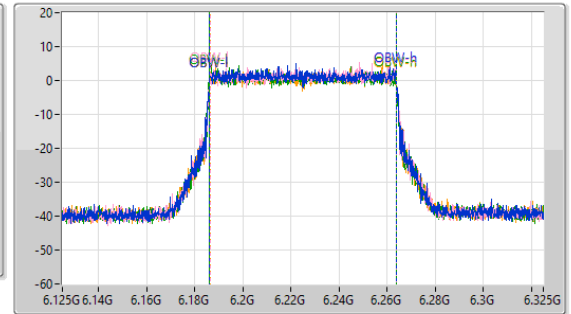
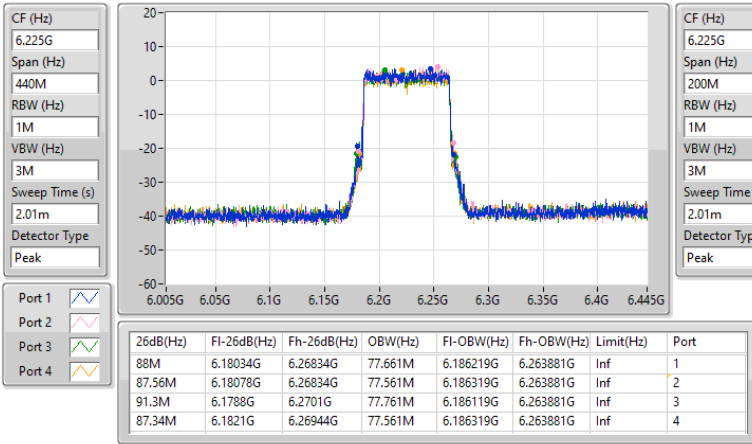


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6225MHz

04/09/2023

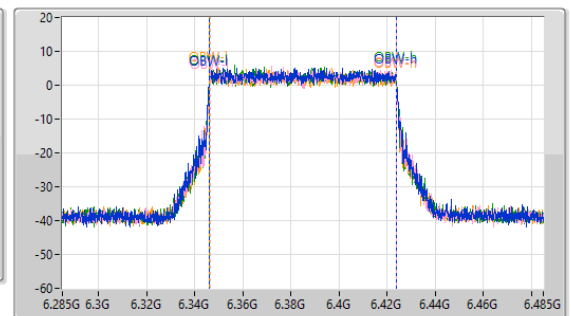
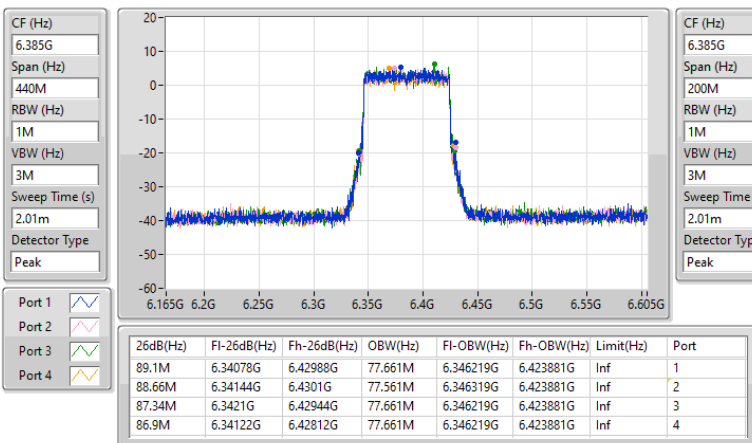


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6385MHz

04/09/2023

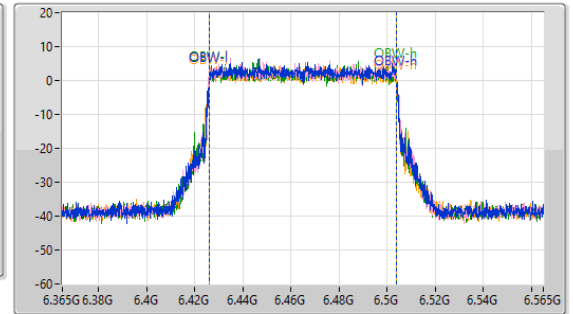
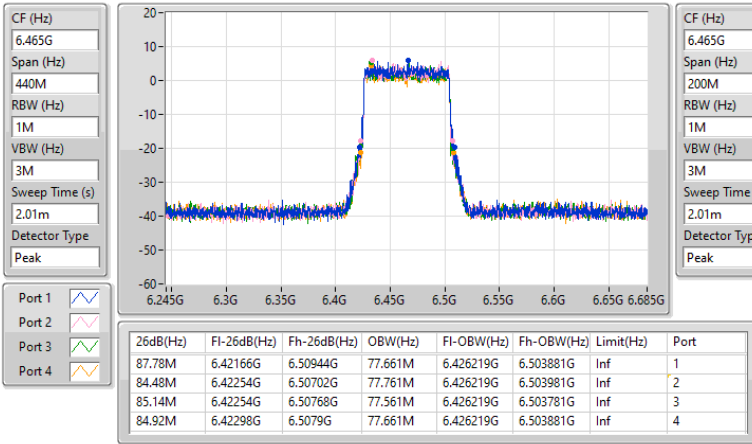


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6465MHz

04/09/2023

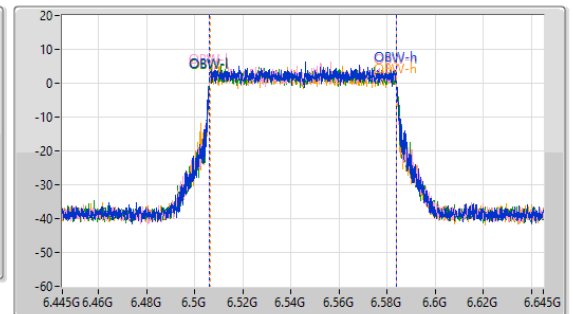
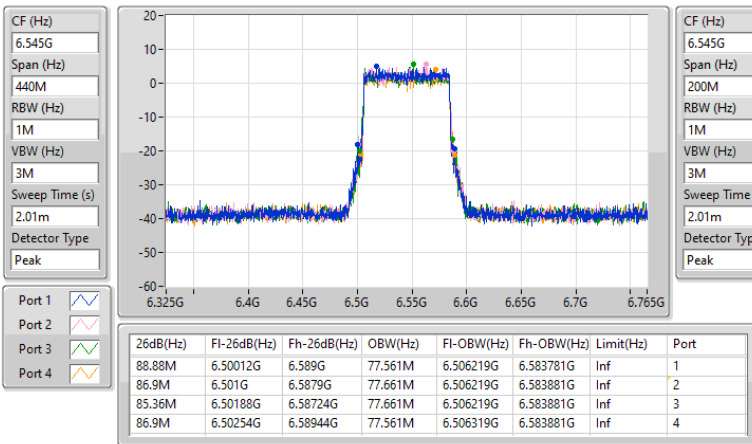


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6545MHz

04/09/2023

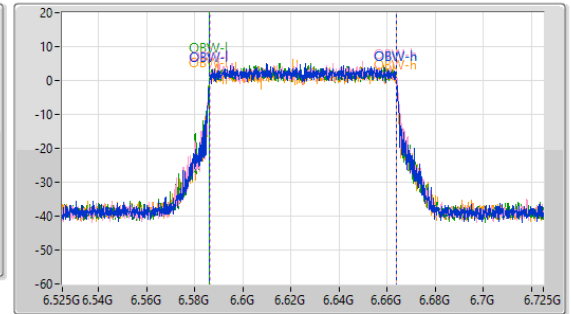
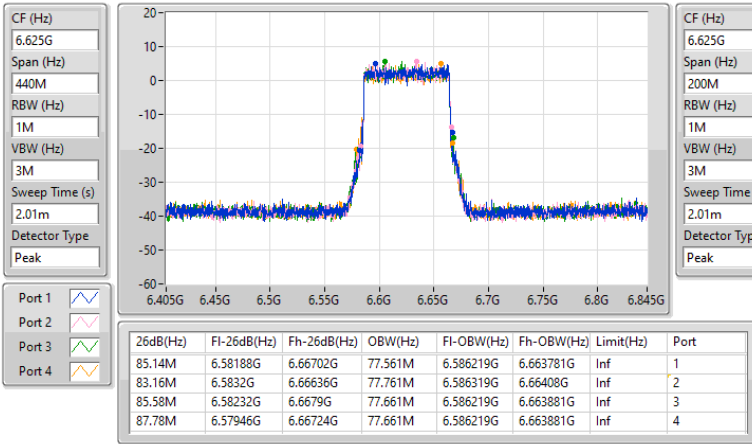


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6625MHz

04/09/2023

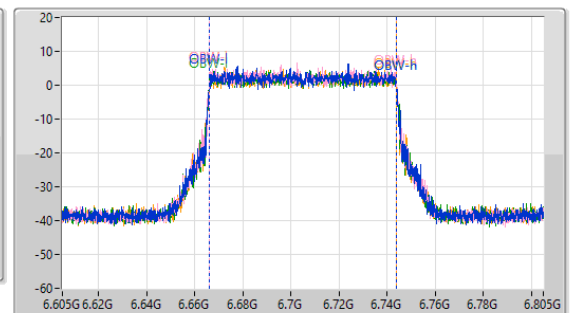
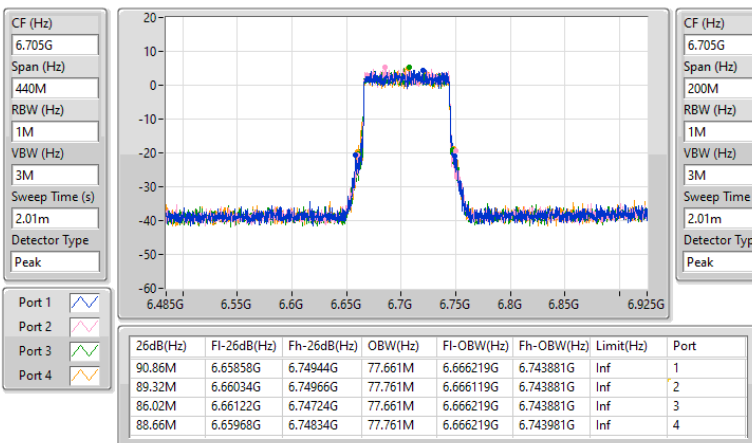


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6705MHz

04/09/2023

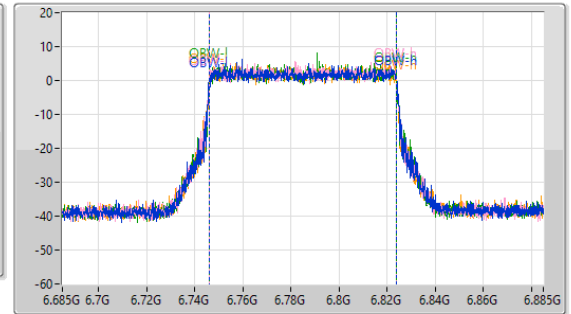
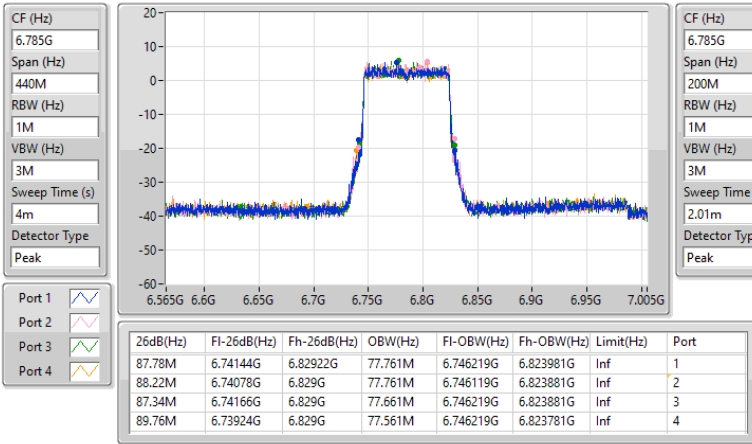


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6785MHz

04/09/2023

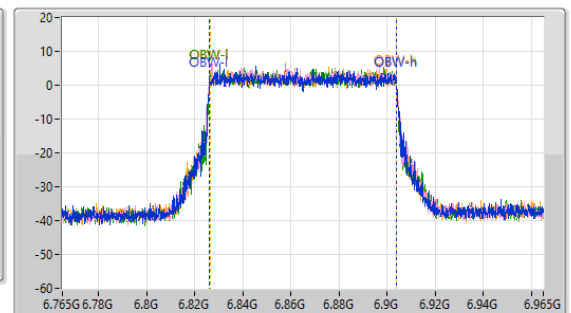
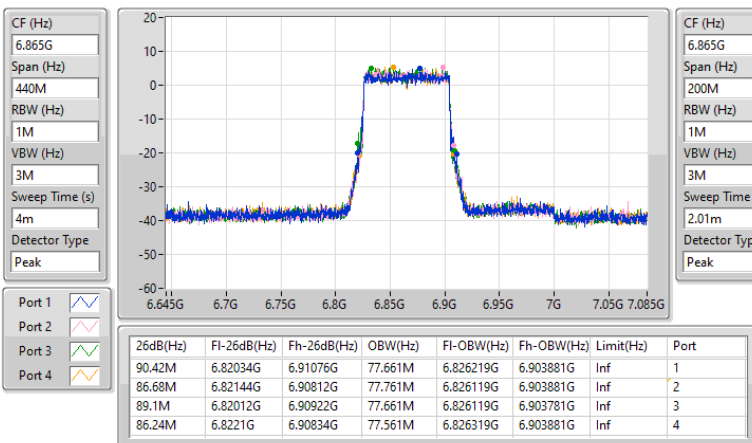


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6865MHz

04/09/2023

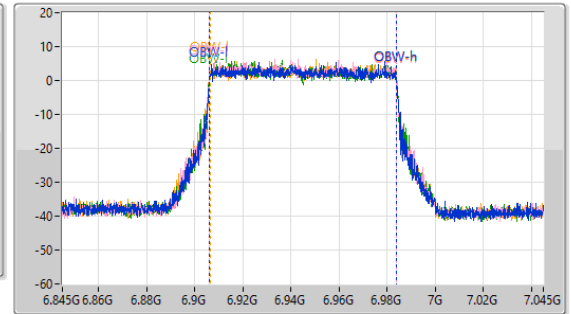
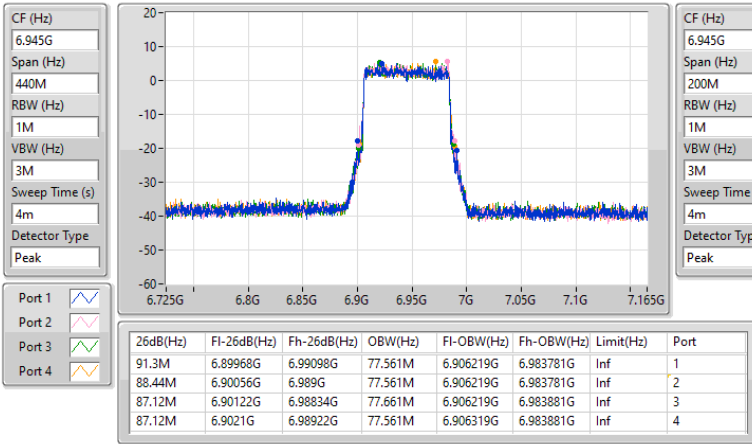


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6945MHz

04/09/2023

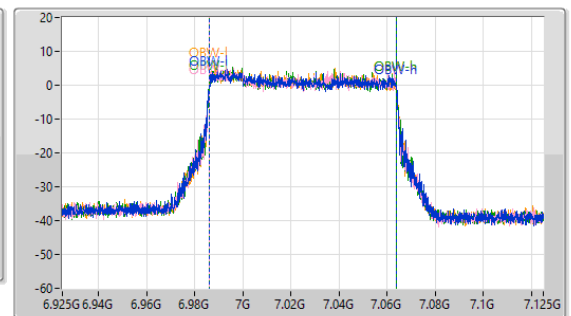
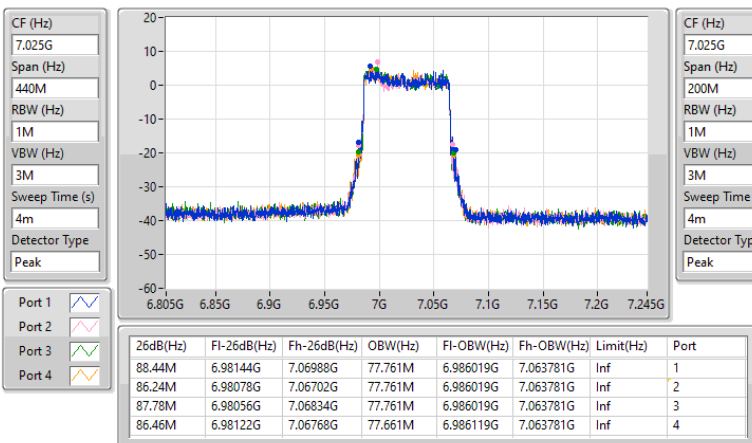


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

7025MHz

04/09/2023

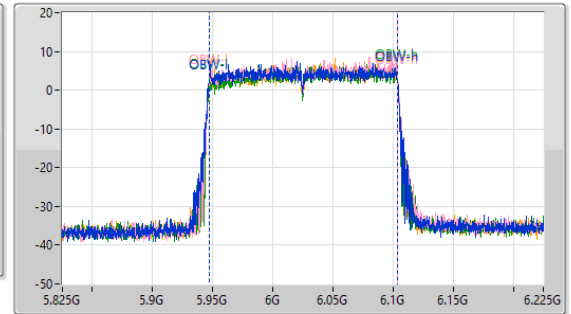
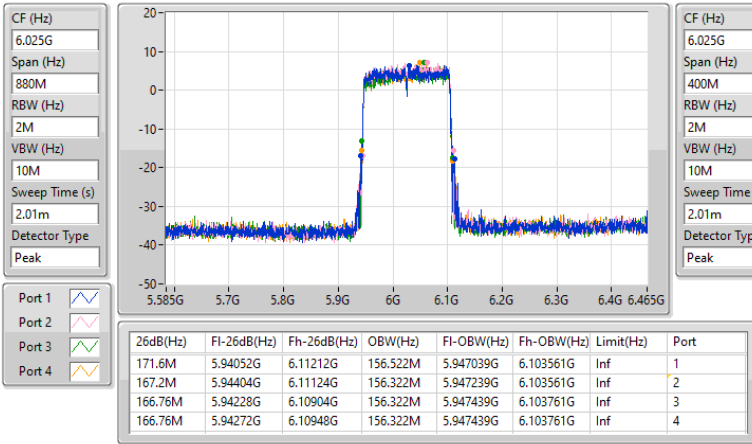


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6025MHz

04/09/2023

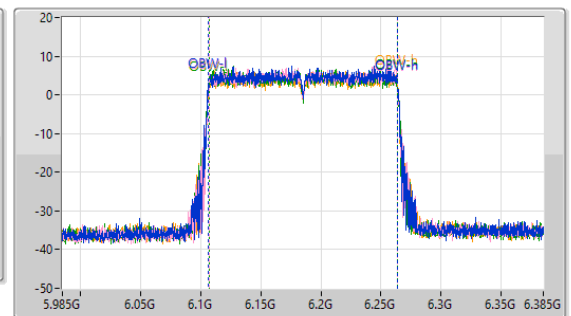
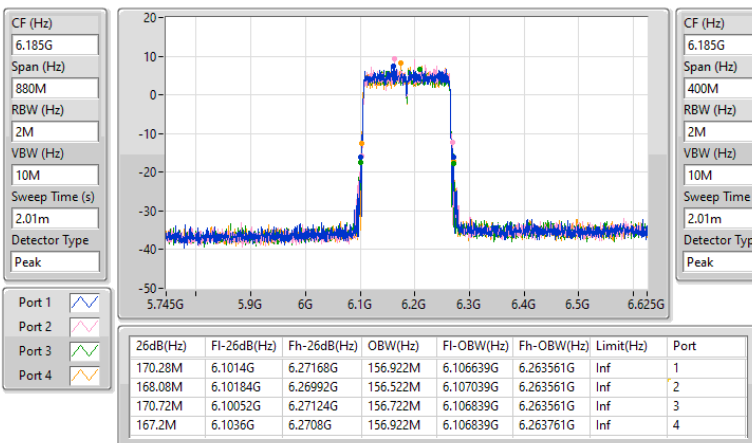


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6185MHz

04/09/2023

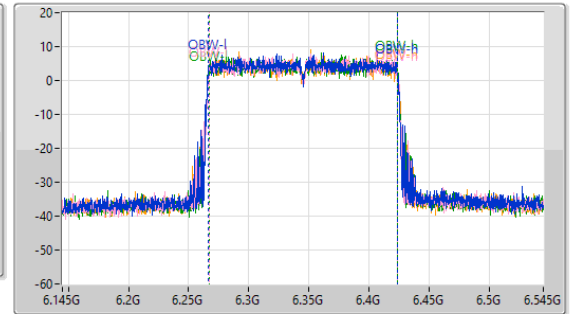
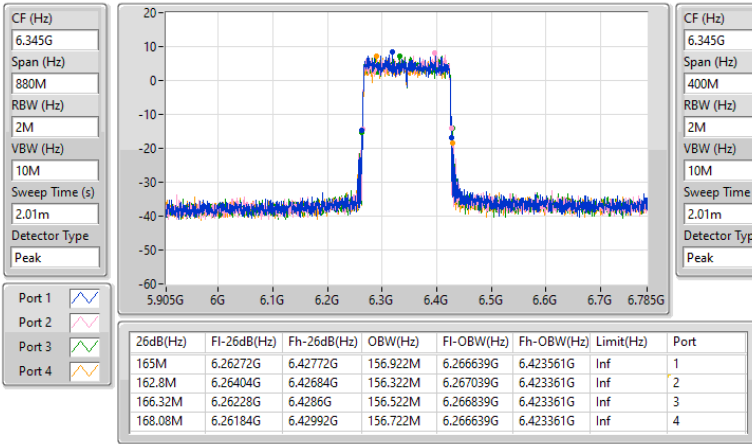


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6345MHz

07/09/2023

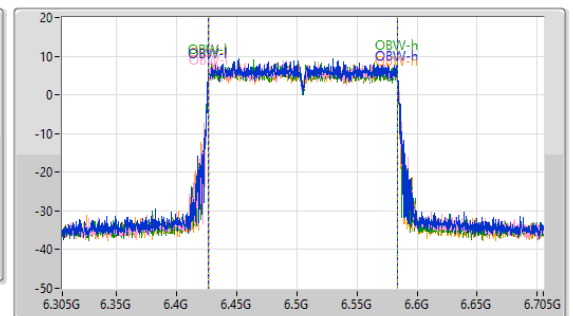
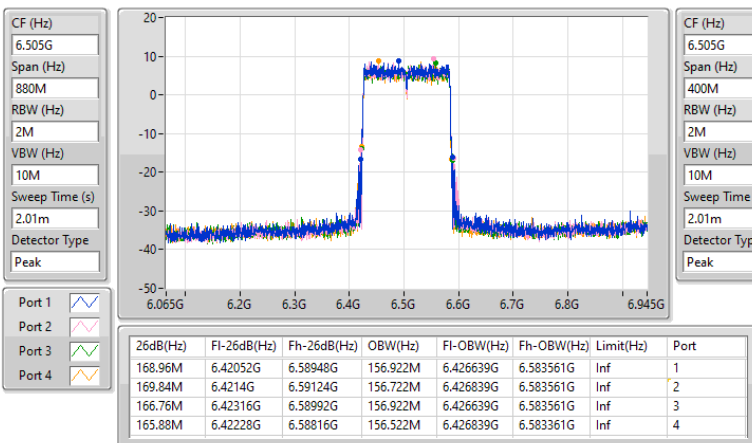


6.425-6.525GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6505MHz

04/09/2023

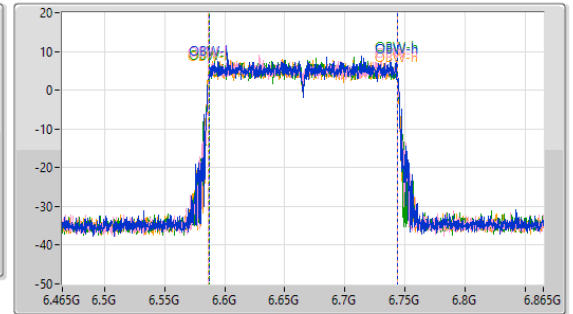
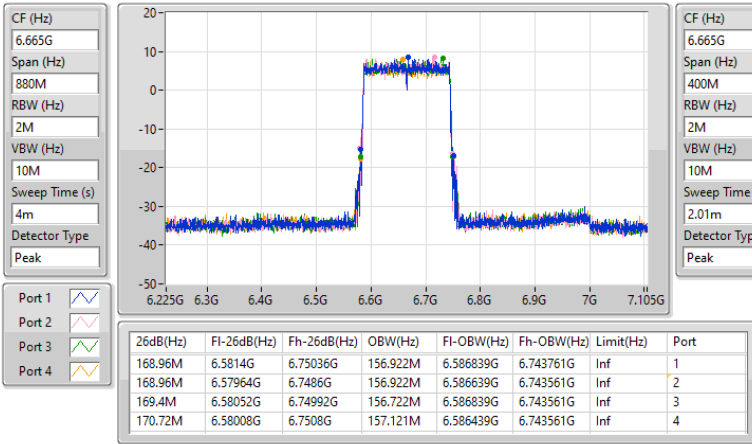


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6665MHz

04/09/2023

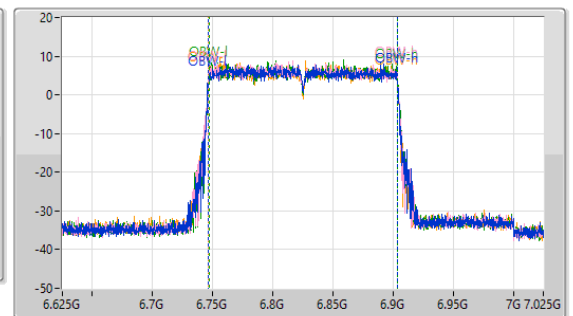
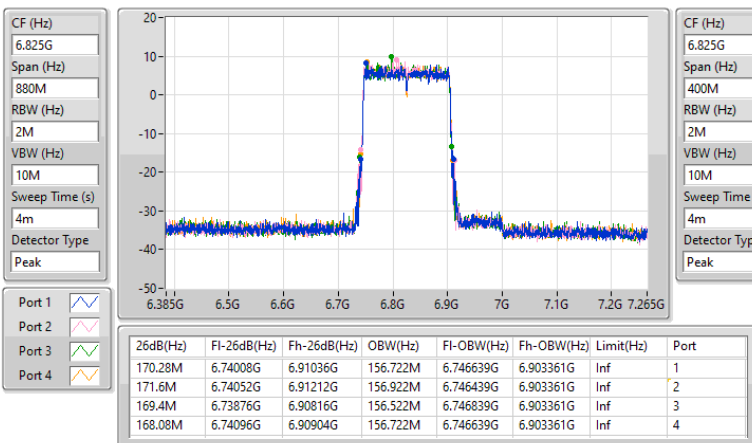


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6825MHz

04/09/2023

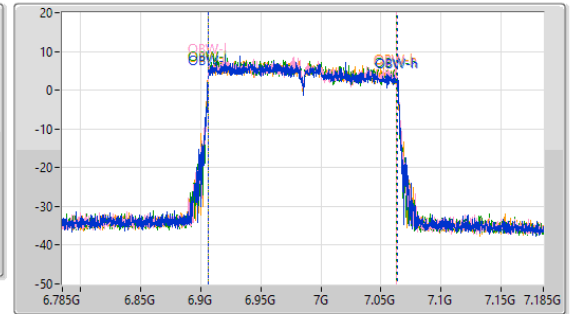
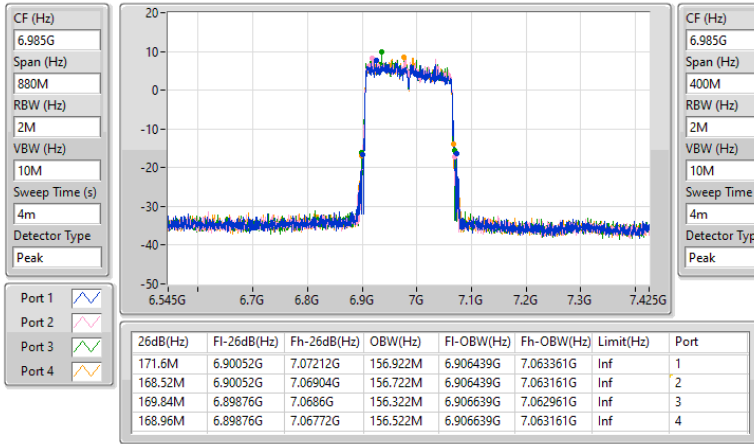


6.875-7.125GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6985MHz

04/09/2023

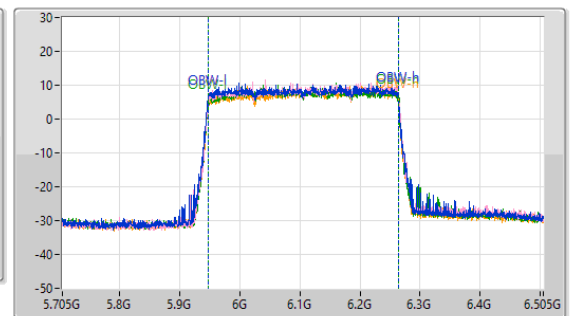
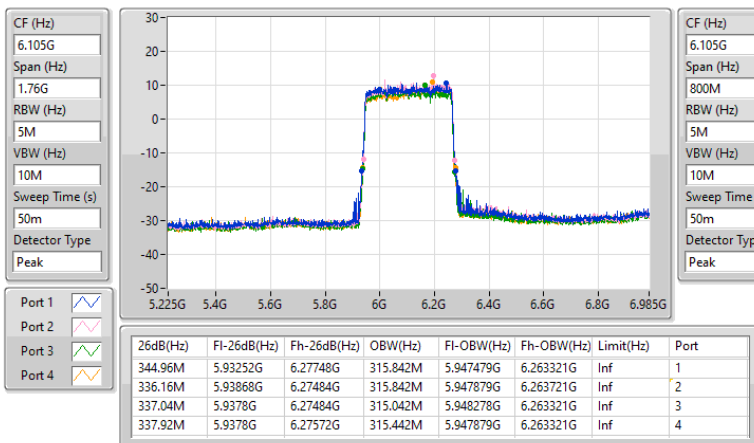


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6105MHz

03/11/2023

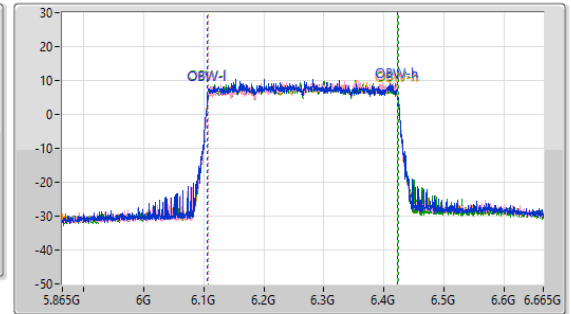
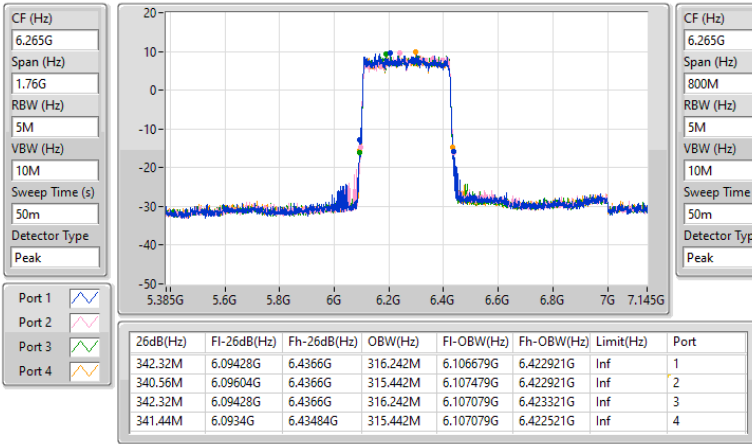


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6265MHz

03/11/2023

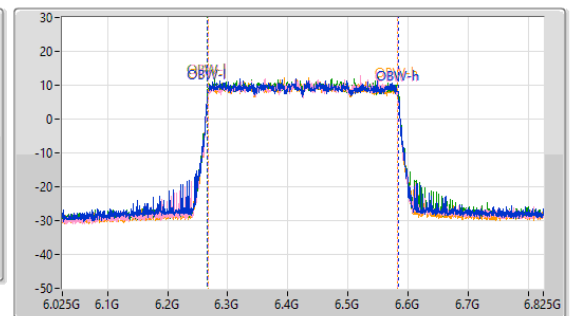
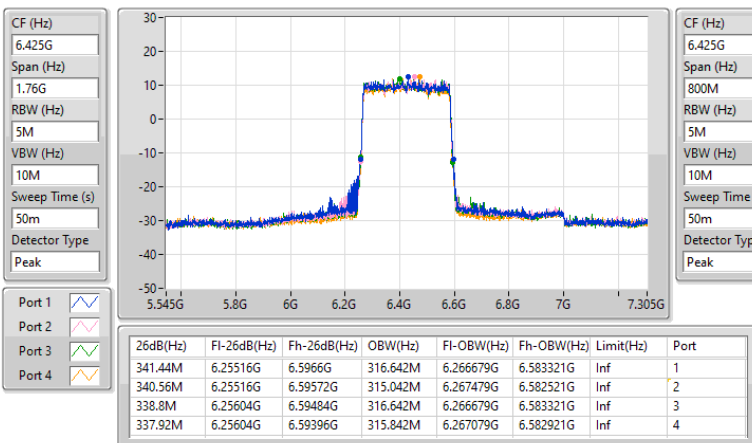


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6425MHz

03/11/2023

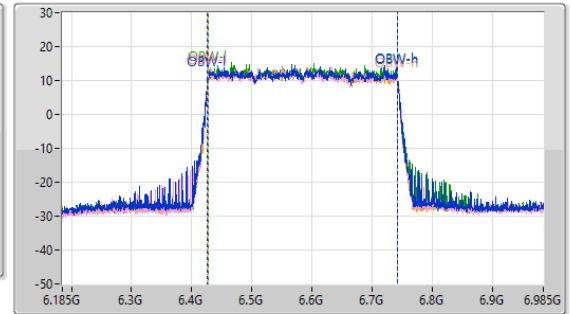
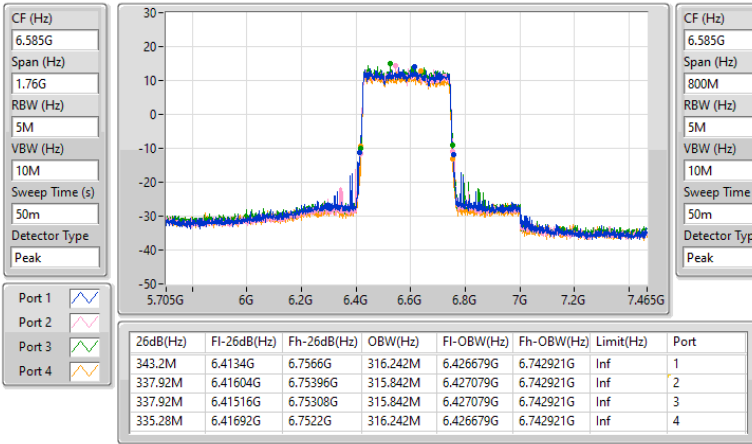


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6585MHz

03/11/2023

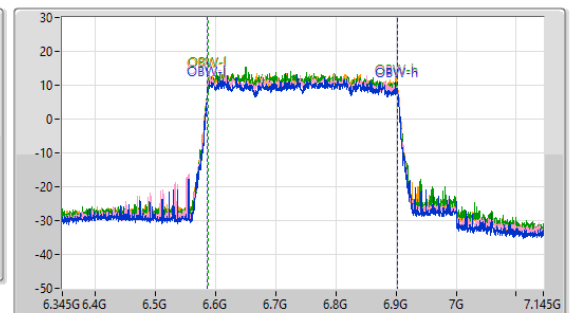
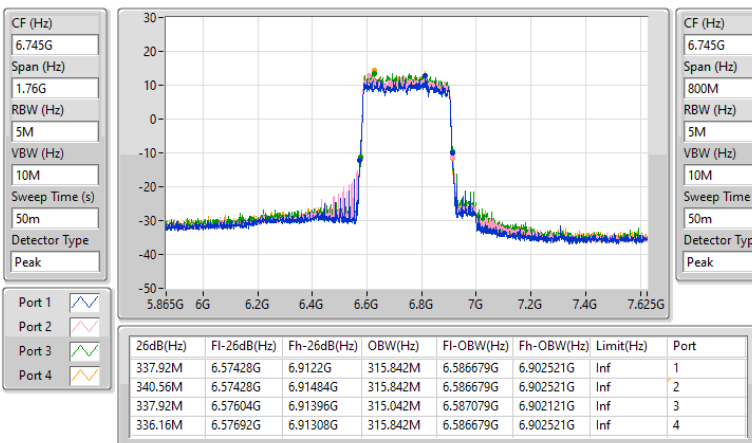


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6745MHz

03/11/2023

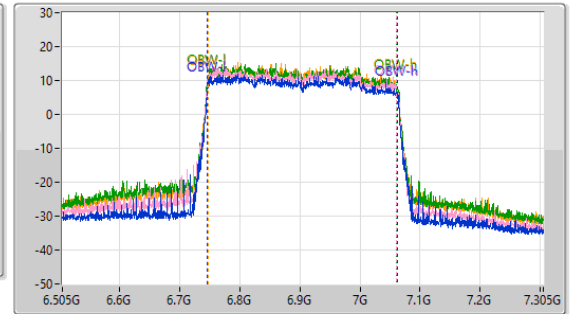
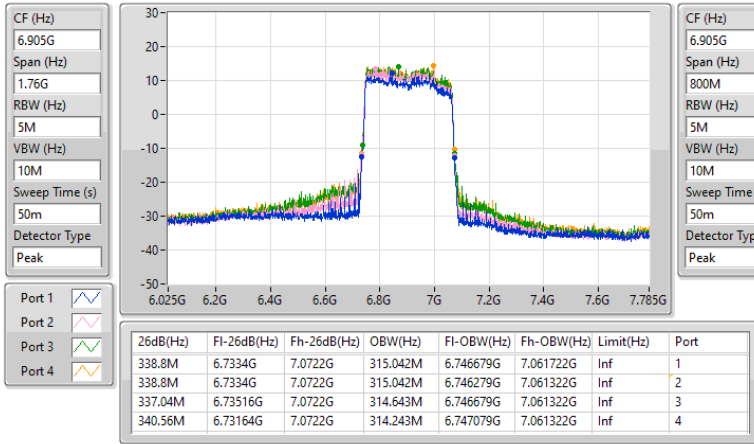


6.875-7.125GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6905MHz

03/11/2023



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)_4TX	21.67M	19.065M	19M1D1D	20.845M	18.941M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	43.89M	37.981M	38MOD1D	41.58M	37.831M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	90.64M	77.761M	77M8D1D	82.94M	77.361M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	169.4M	157.121M	157MD1D	164.56M	155.722M
802.11be EHT320-BF_Nss1,(MCS0)_4TX	641.52M	317.041M	317MD1D	332.64M	313.843M
6.425-6.525GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	22.055M	19.09M	19M1D1D	20.185M	18.966M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	43.78M	38.031M	38MOD1D	40.48M	37.881M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	88M	77.861M	77M9D1D	81.4M	77.461M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	170.72M	157.121M	157MD1D	164.12M	156.122M
802.11be EHT320-BF_Nss1,(MCS0)_4TX	416.24M	317.441M	317MD1D	332.64M	314.243M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	22.22M	19.115M	19M1D1D	20.9M	18.991M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	43.34M	38.031M	38MOD1D	41.8M	37.831M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	89.1M	77.761M	77M8D1D	82.06M	77.061M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	174.24M	156.922M	157MD1D	166.32M	153.923M
802.11be EHT320-BF_Nss1,(MCS0)_4TX	681.12M	316.242M	316MD1D	332.64M	313.843M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	21.78M	19.04M	19MOD1D	20.955M	18.916M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	44.11M	38.031M	38MOD1D	41.25M	37.831M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	88.66M	77.861M	77M9D1D	83.6M	77.361M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	166.32M	156.722M	157MD1D	165M	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)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	21.34M	19.015M	21.45M	18.991M	21.615M	18.941M	21.285M	18.991M
6195MHz	Pass	Inf	21.67M	19.065M	21.45M	19.04M	20.845M	18.966M	21.175M	19.04M
6415MHz	Pass	Inf	21.12M	19.015M	21.01M	19.04M	21.12M	19.065M	20.9M	18.991M
6435MHz	Pass	Inf	20.35M	18.966M	21.285M	19.015M	21.34M	19.015M	22M	18.991M
6475MHz	Pass	Inf	21.725M	19.015M	21.12M	19.04M	21.285M	19.015M	20.845M	19.065M
6515MHz	Pass	Inf	22.055M	18.991M	21.285M	19.015M	20.185M	19.09M	21.45M	19.065M
6535MHz	Pass	Inf	21.89M	19.015M	21.23M	19.065M	21.175M	19.04M	21.56M	19.065M
6695MHz	Pass	Inf	21.285M	19.115M	20.9M	19.015M	21.285M	18.991M	21.945M	19.04M
6875MHz	Pass	Inf	21.01M	19.04M	21.395M	19.04M	21.78M	19.065M	22.22M	19.04M
6895MHz	Pass	Inf	21.175M	18.941M	21.175M	19.015M	21.34M	19.04M	21.78M	18.966M
6995MHz	Pass	Inf	20.955M	18.916M	21.67M	18.966M	21.395M	18.941M	21.45M	18.991M
7095MHz	Pass	Inf	21.285M	18.991M	21.395M	18.991M	21.34M	19.015M	21.12M	19.04M
7115MHz	Pass	Inf	21.065M	19.04M	21.56M	19.015M	21.23M	19.015M	21.34M	19.04M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	43.01M	37.931M	41.58M	37.981M	43.34M	37.931M	43.45M	37.981M
6205MHz	Pass	Inf	42.02M	37.831M	43.67M	37.981M	42.35M	37.931M	43.56M	37.881M
6405MHz	Pass	Inf	41.69M	37.931M	42.68M	37.881M	43.89M	37.931M	42.13M	37.881M
6445MHz	Pass	Inf	41.14M	37.931M	43.78M	37.931M	42.24M	37.881M	43.23M	37.931M
6485MHz	Pass	Inf	42.9M	37.881M	43.34M	37.981M	41.8M	37.931M	40.48M	38.031M
6525MHz	Pass	Inf	41.91M	37.981M	43.23M	37.981M	42.9M	37.981M	42.35M	37.981M
6565MHz	Pass	Inf	43.12M	37.881M	42.68M	37.831M	43.34M	37.981M	42.79M	37.931M
6685MHz	Pass	Inf	42.68M	37.831M	43.01M	37.881M	43.34M	37.981M	43.12M	37.931M
6885MHz	Pass	Inf	41.8M	37.831M	42.46M	38.031M	42.68M	37.931M	42.24M	37.931M
6925MHz	Pass	Inf	41.58M	37.881M	42.68M	37.981M	43.01M	37.981M	42.24M	37.981M
7005MHz	Pass	Inf	41.25M	37.881M	42.35M	38.031M	42.9M	38.031M	44.11M	38.031M
7085MHz	Pass	Inf	42.24M	37.881M	43.56M	38.031M	42.79M	37.831M	41.58M	37.881M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	84.04M	77.461M	89.32M	77.461M	84.04M	77.561M	85.14M	77.661M
6225MHz	Pass	Inf	90.64M	77.361M	85.14M	77.561M	84.48M	77.761M	84.92M	77.461M
6385MHz	Pass	Inf	82.94M	77.461M	86.24M	77.561M	85.14M	77.661M	87.12M	77.561M
6465MHz	Pass	Inf	83.16M	77.461M	86.46M	77.661M	83.82M	77.561M	85.36M	77.561M
6545MHz	Pass	Inf	81.4M	77.661M	87.12M	77.861M	83.6M	77.561M	88M	77.661M
6625MHz	Pass	Inf	85.36M	77.161M	87.34M	77.561M	87.12M	77.661M	86.02M	77.461M
6705MHz	Pass	Inf	82.94M	77.661M	84.92M	77.661M	83.38M	77.361M	85.8M	77.761M
6785MHz	Pass	Inf	88.44M	77.061M	85.14M	77.461M	87.12M	77.661M	85.36M	77.661M
6865MHz	Pass	Inf	82.06M	77.561M	89.1M	77.661M	86.02M	77.561M	85.58M	77.461M
6945MHz	Pass	Inf	85.36M	77.861M	87.78M	77.761M	87.12M	77.561M	88.66M	77.661M
7025MHz	Pass	Inf	83.82M	77.361M	87.34M	77.661M	83.6M	77.461M	86.24M	77.761M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	165M	156.522M	169.4M	156.322M	166.32M	155.722M	165.44M	156.522M
6185MHz	Pass	Inf	166.32M	156.522M	169.4M	156.922M	164.56M	157.121M	164.56M	156.322M
6345MHz	Pass	Inf	166.32M	156.722M	166.76M	156.922M	167.64M	156.922M	165.88M	156.522M
6505MHz	Pass	Inf	164.12M	156.122M	168.08M	156.522M	170.72M	157.121M	168.52M	156.922M
6665MHz	Pass	Inf	167.64M	156.522M	170.72M	156.522M	171.16M	156.922M	166.32M	156.922M
6825MHz	Pass	Inf	167.2M	153.923M	166.76M	156.322M	169.84M	156.522M	174.24M	156.522M
6985MHz	Pass	Inf	165M	156.722M	166.32M	156.322M	165M	156.722M	166.32M	156.722M
802.11be EHT320-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6105MHz	Pass	Inf	493.68M	317.041M	338.8M	315.042M	338.8M	314.243M	340.56M	315.042M
6265MHz	Pass	Inf	486.64M	313.843M	337.04M	315.442M	337.92M	315.442M	335.28M	314.643M
6425MHz	Pass	Inf	641.52M	316.242M	337.92M	315.042M	334.4M	315.842M	332.64M	315.842M
6585MHz	Pass	Inf	416.24M	317.441M	332.64M	314.243M	333.52M	315.442M	334.4M	314.643M
6745MHz	Pass	Inf	337.92M	316.242M	337.92M	314.243M	337.04M	316.242M	339.68M	315.442M
6905MHz	Pass	Inf	681.12M	316.242M	332.64M	313.843M	335.28M	314.643M	335.28M	315.042M

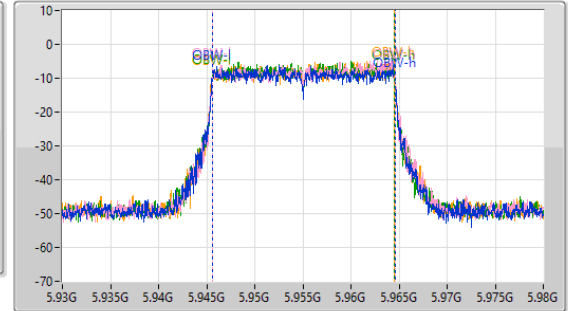
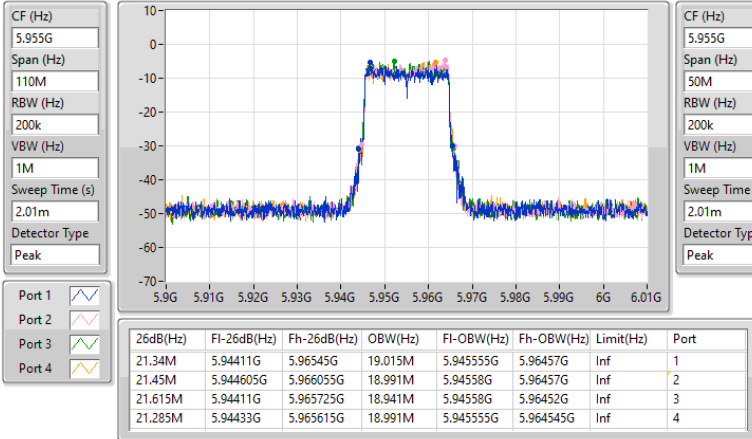
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5955MHz

18/10/2023

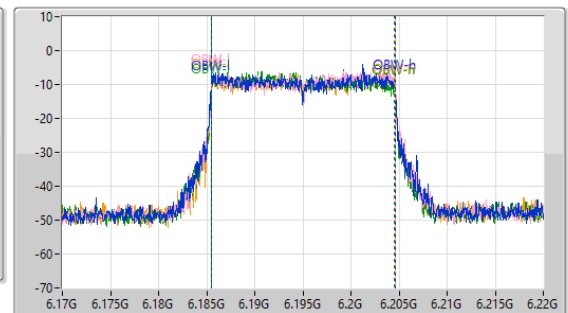
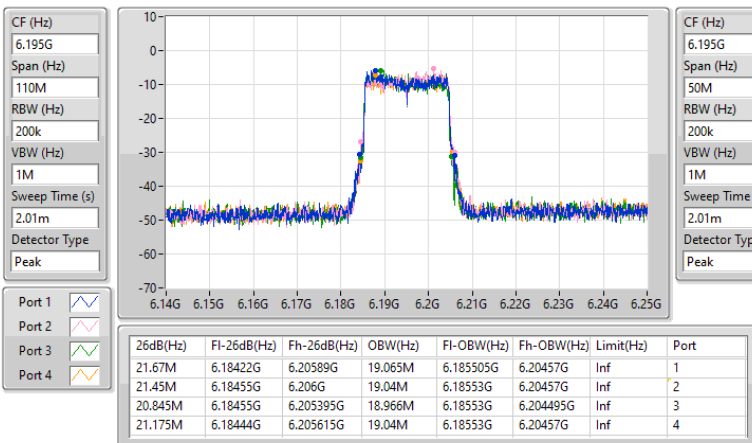


5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6195MHz

18/10/2023

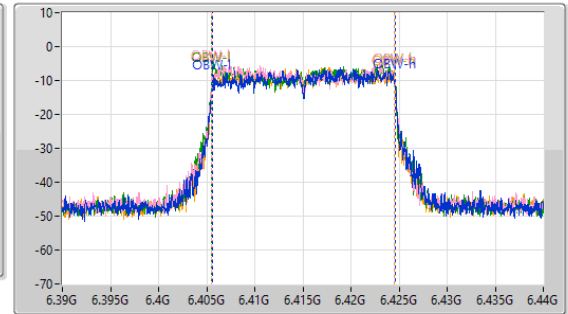
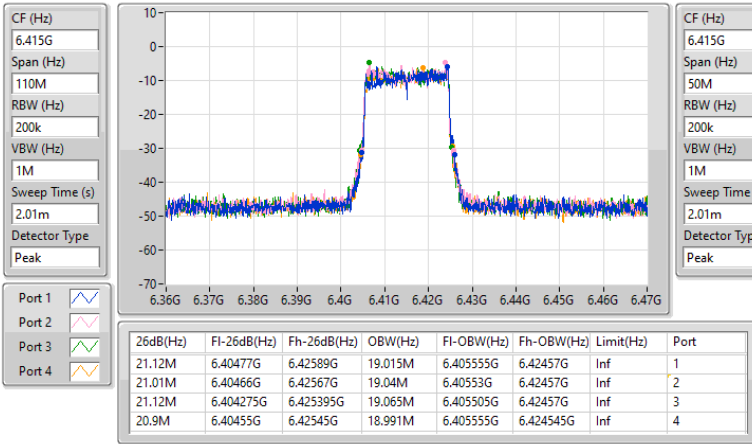


5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6415MHz

18/10/2023

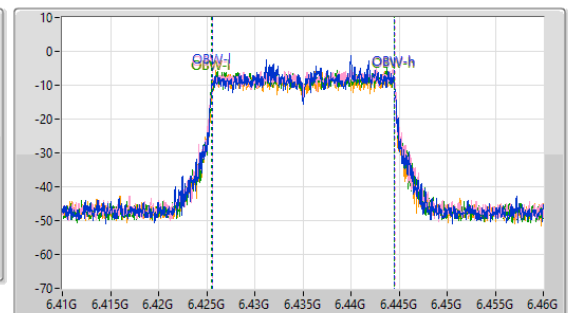
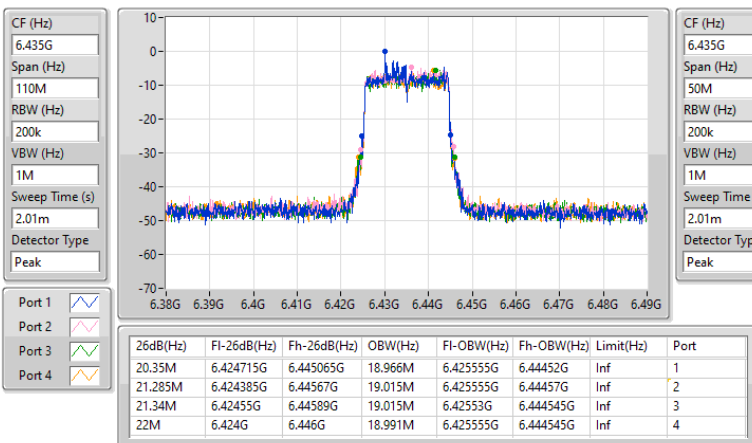


6.425-6.525GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6435MHz

18/10/2023

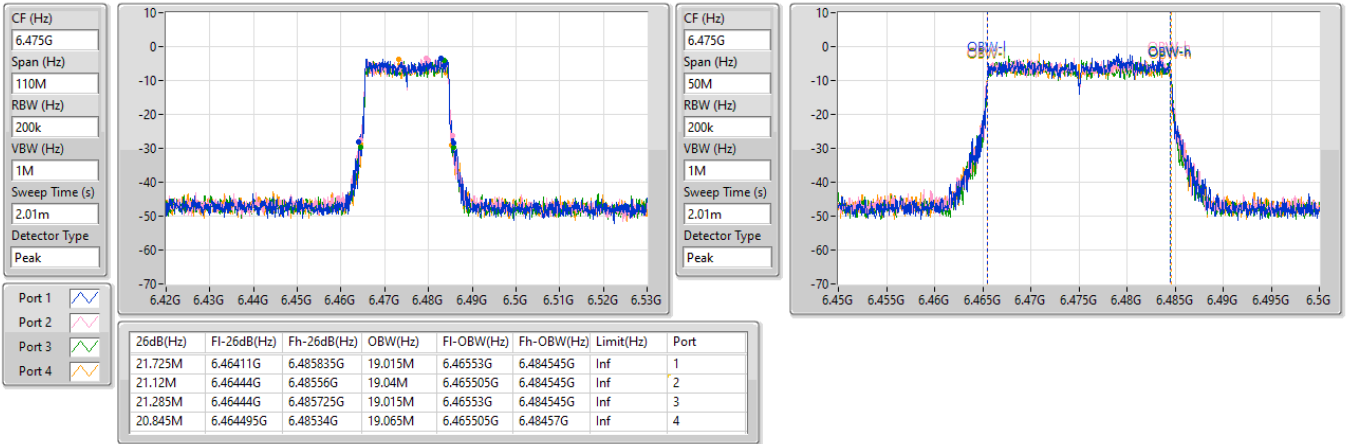


6.425-6.525GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6475MHz

18/10/2023

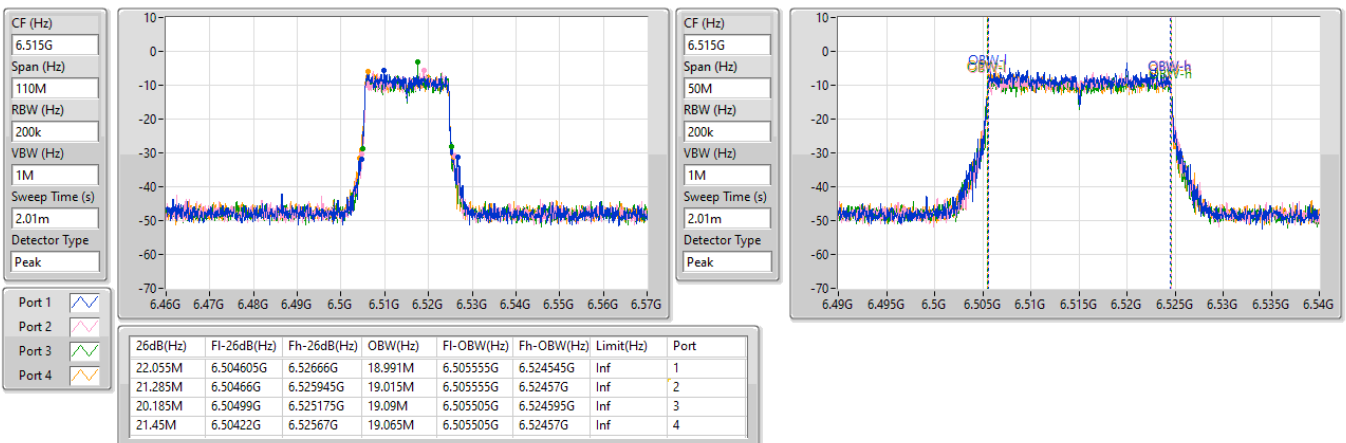


6.425-6.525GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6515MHz

18/10/2023

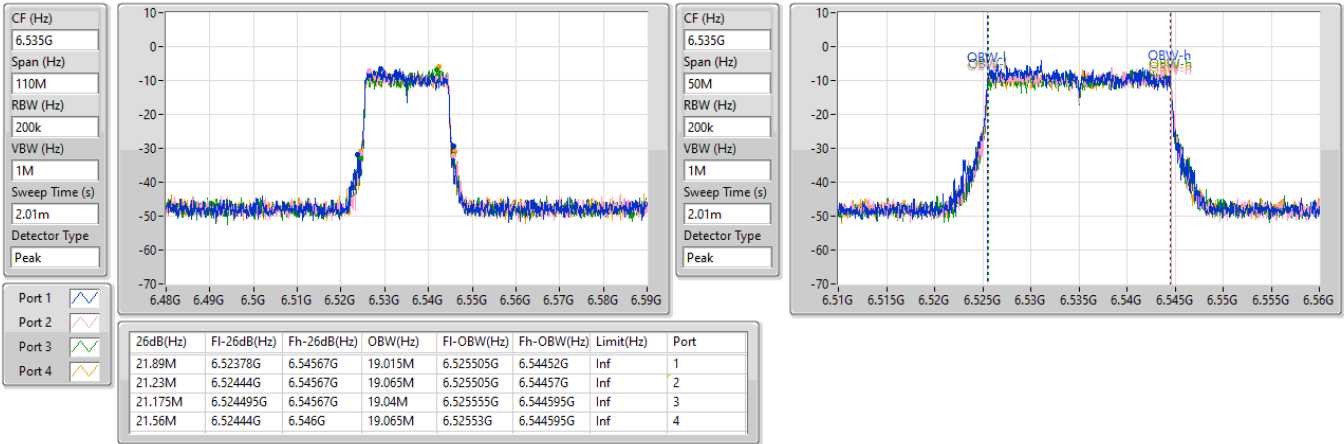


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6535MHz

18/10/2023

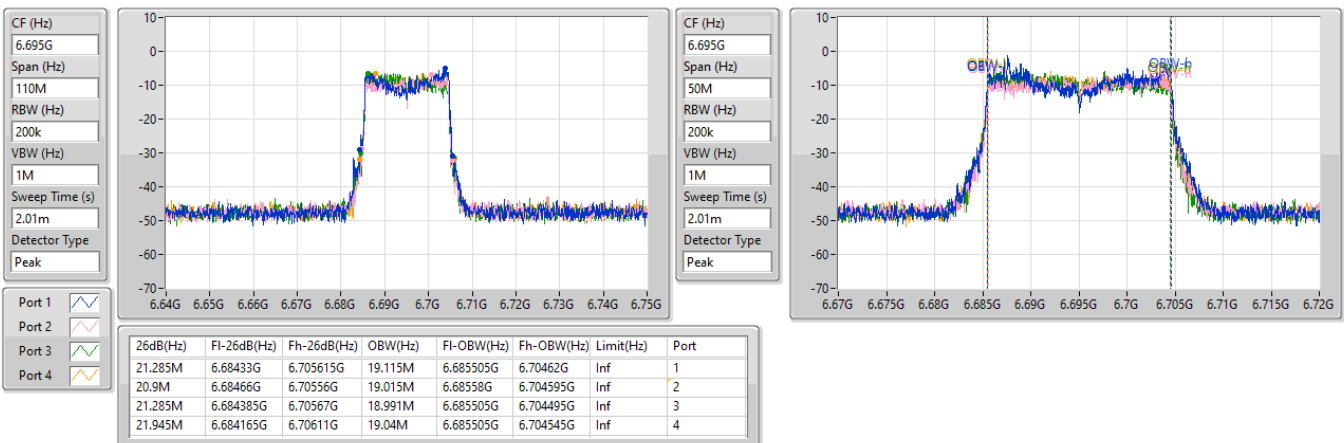


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6695MHz

18/10/2023

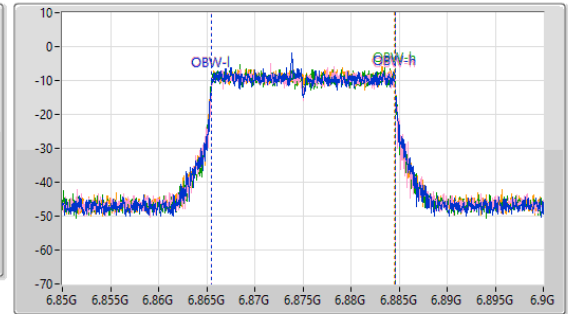
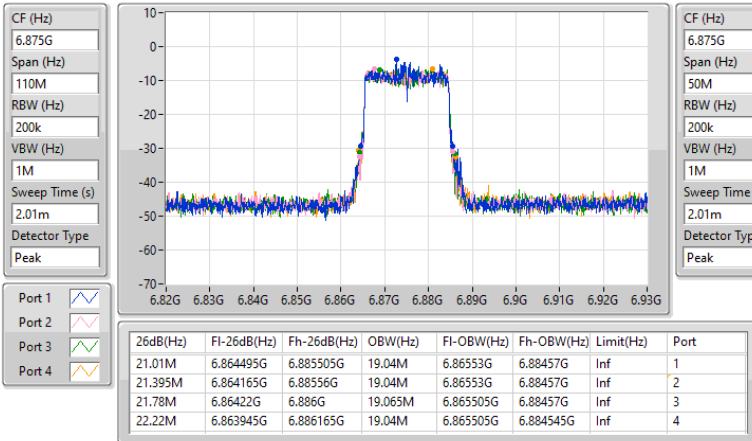


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6875MHz

18/10/2023

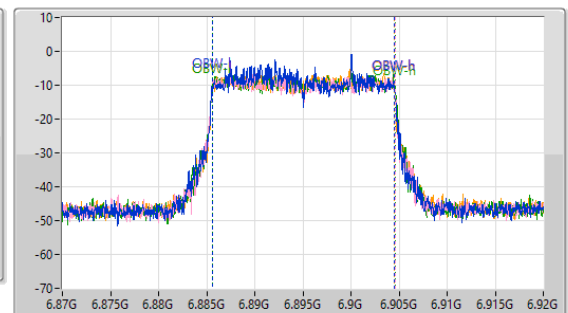
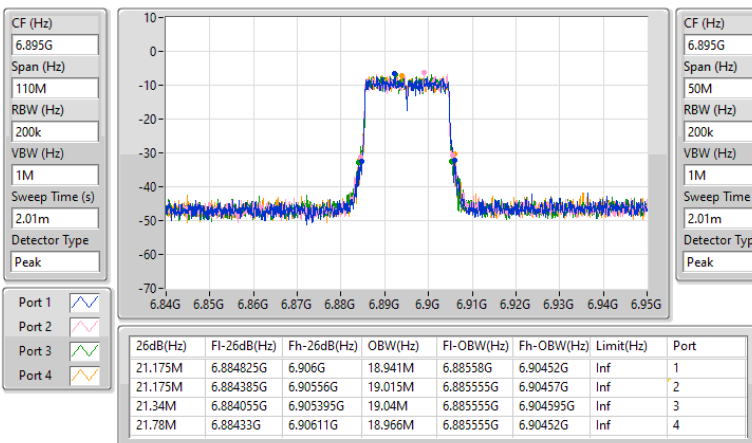


6.875-7.125GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6895MHz

18/10/2023

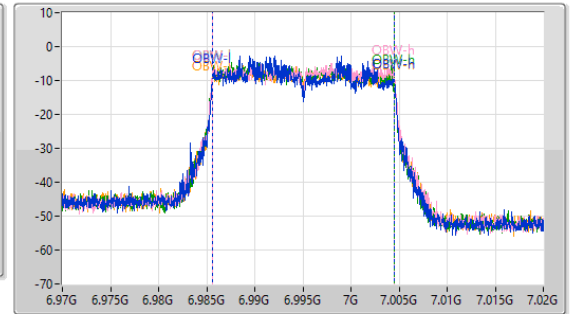
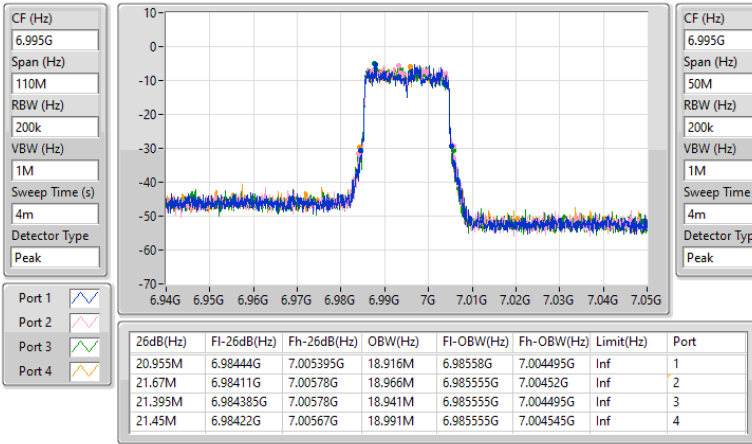


6.875-7.125GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6995MHz

18/10/2023

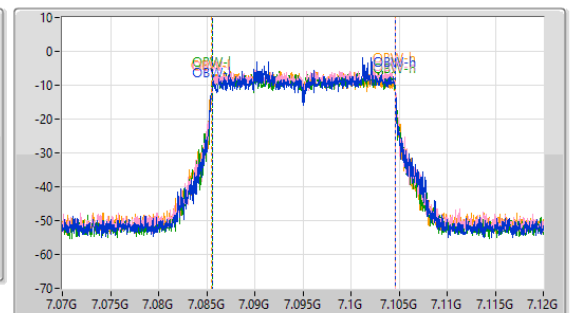
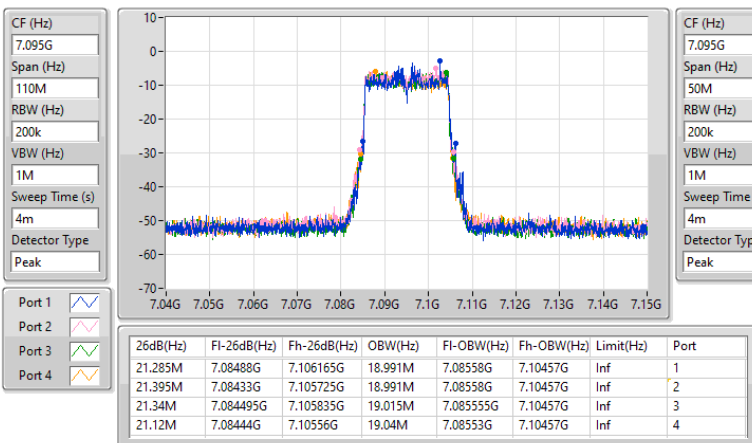


6.875-7.125GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

7095MHz

18/10/2023

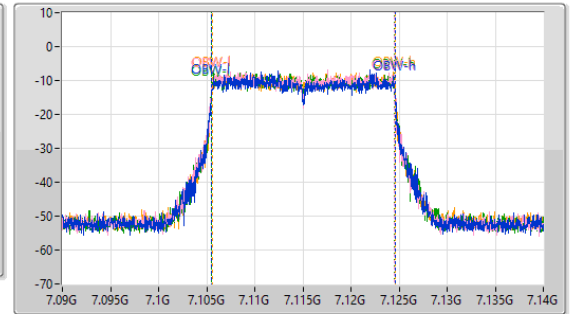
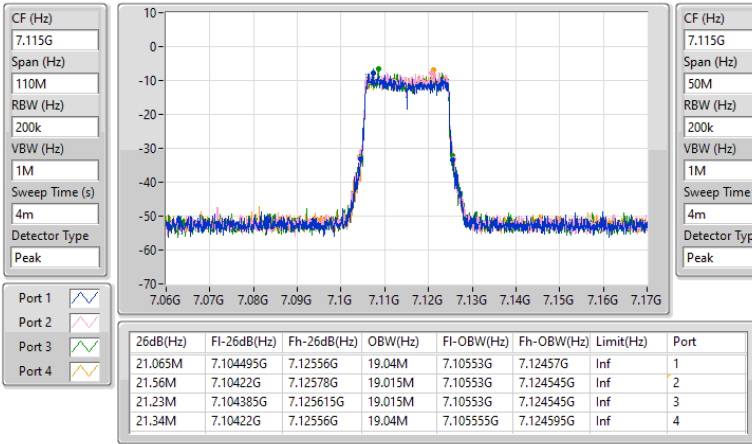


6.875-7.125GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

7115MHz

18/10/2023

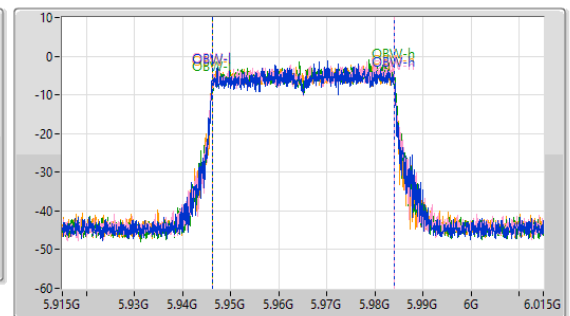
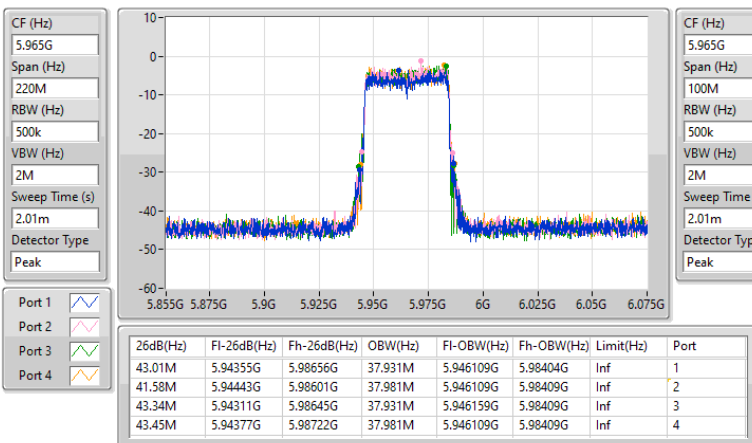


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5965MHz

18/10/2023

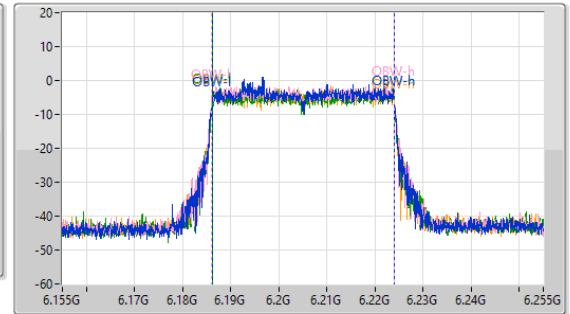
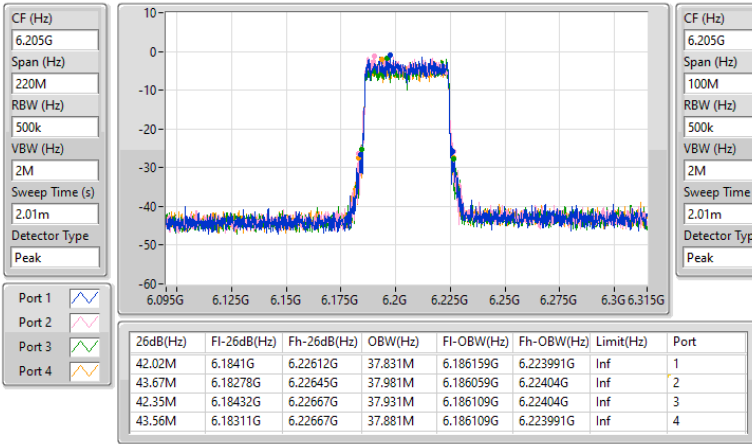


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6205MHz

18/10/2023

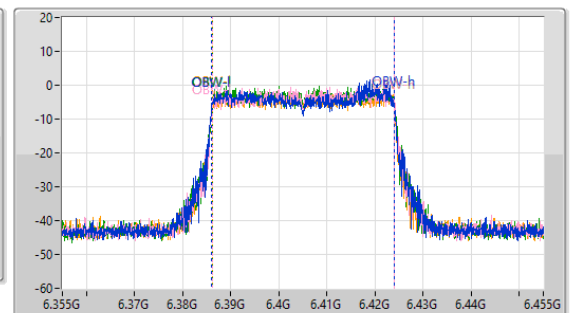
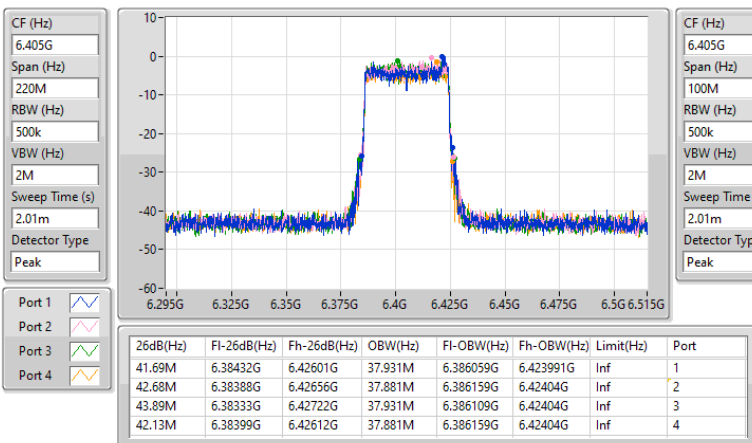


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6405MHz

18/10/2023

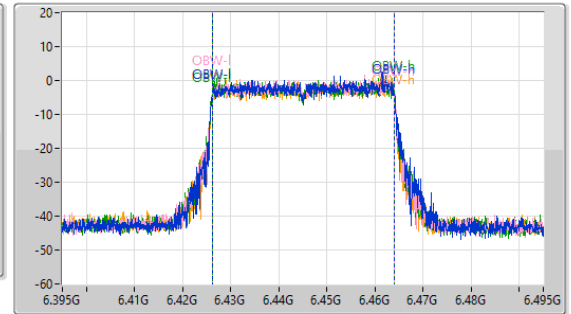
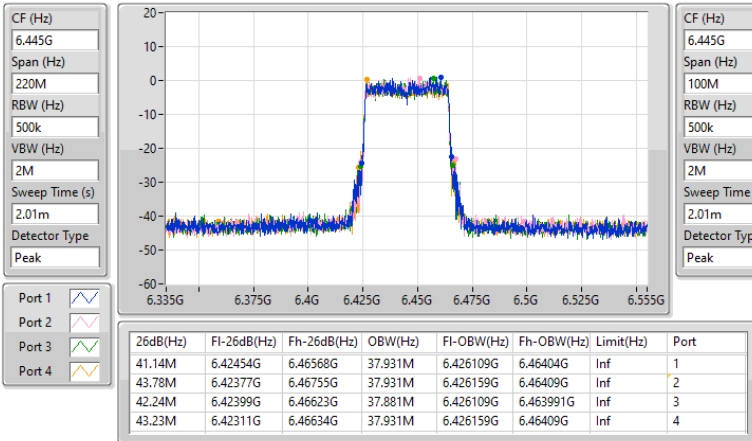


6.425-6.525GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6445MHz

18/10/2023

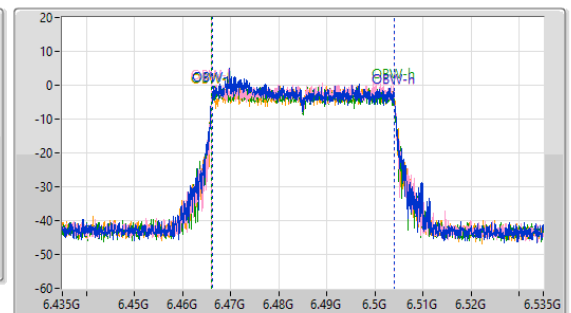
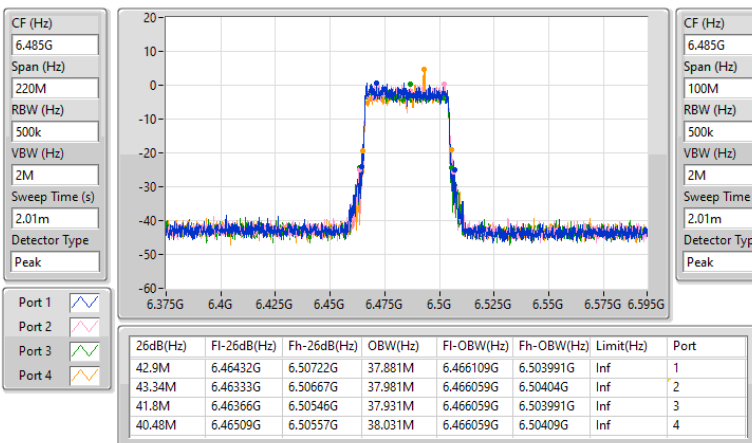


6.425-6.525GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6485MHz

18/10/2023

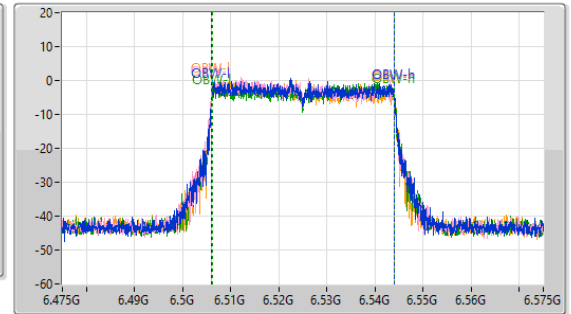
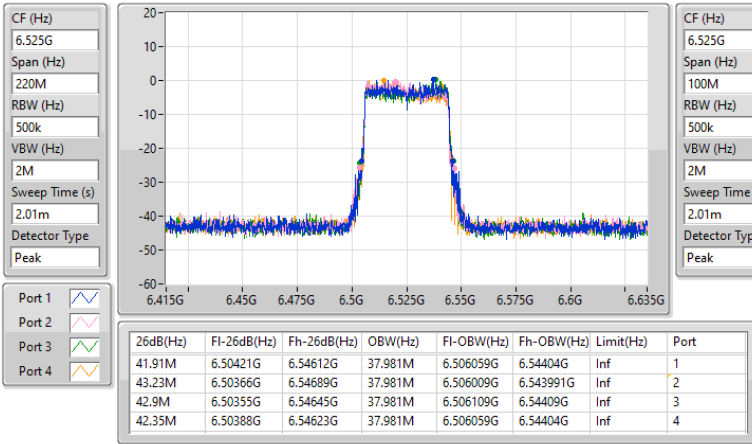


6.425-6.525GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6525MHz

18/10/2023

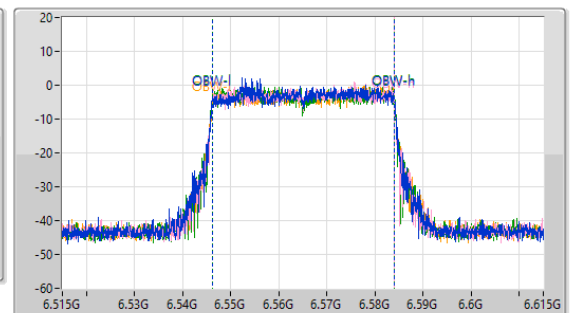
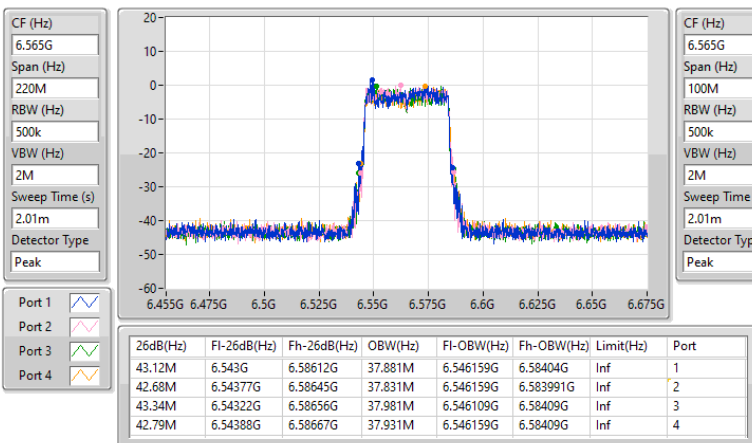


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6565MHz

18/10/2023

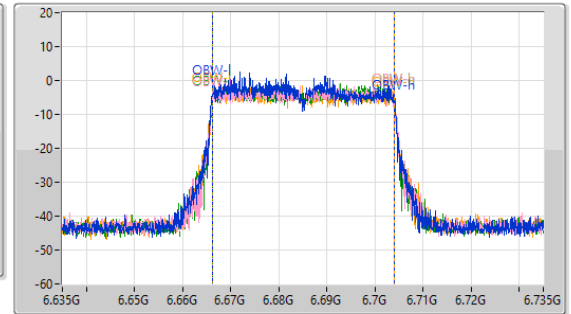
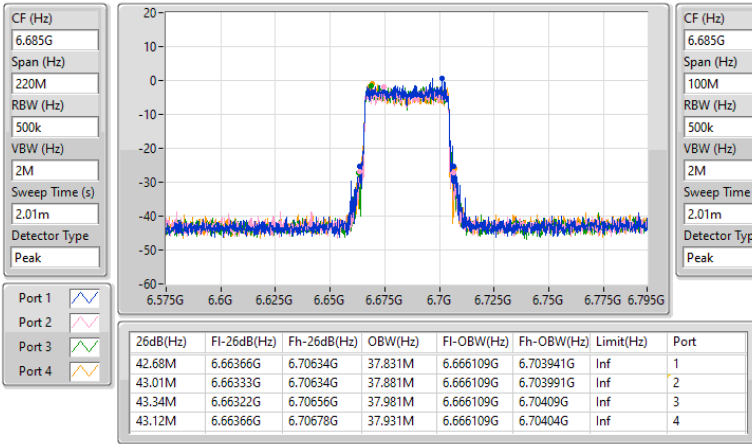


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6685MHz

18/10/2023

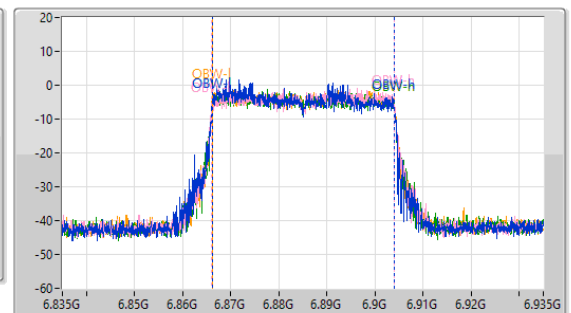
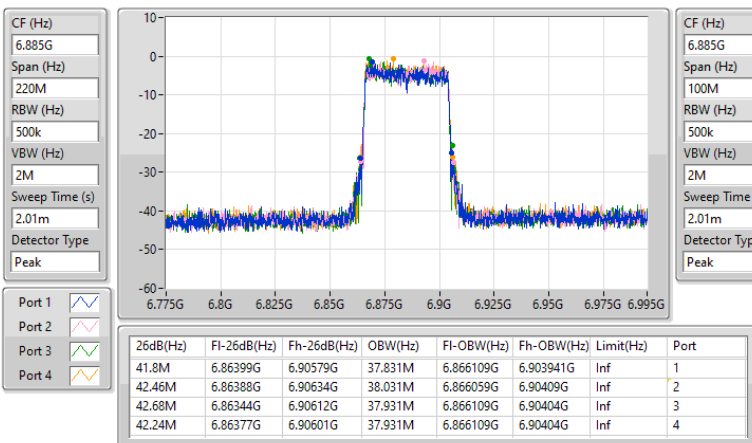


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6685MHz

18/10/2023

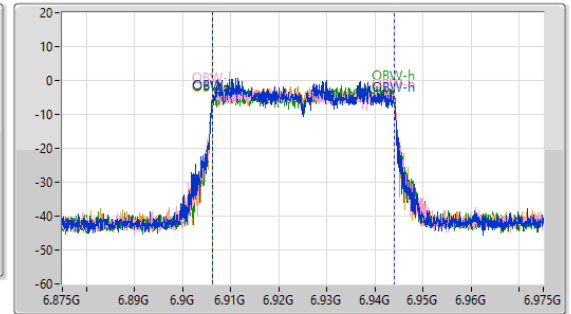
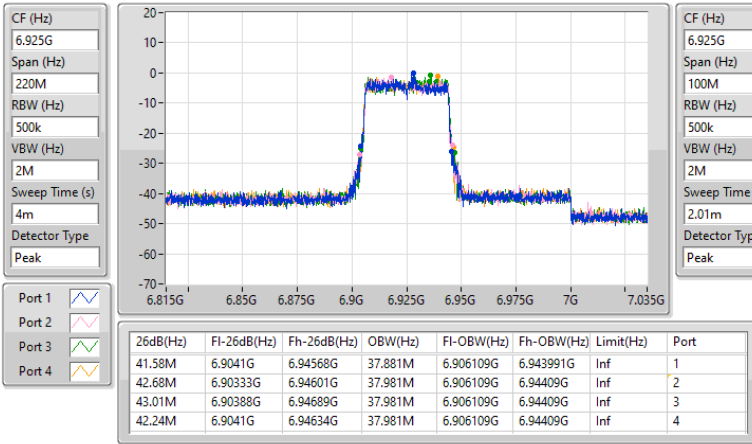


6.875-7.125GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6925MHz

18/10/2023

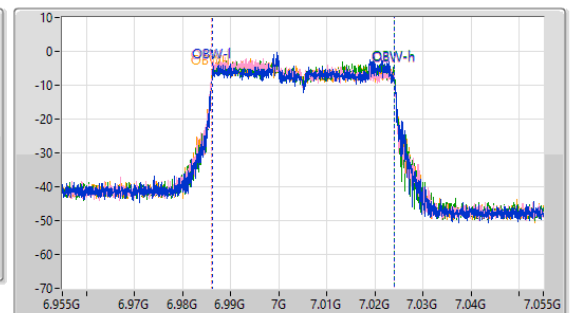
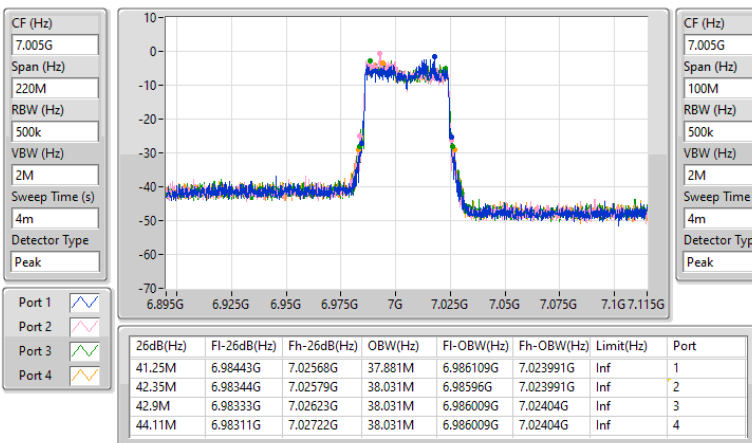


6.875-7.125GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

7005MHz

18/10/2023

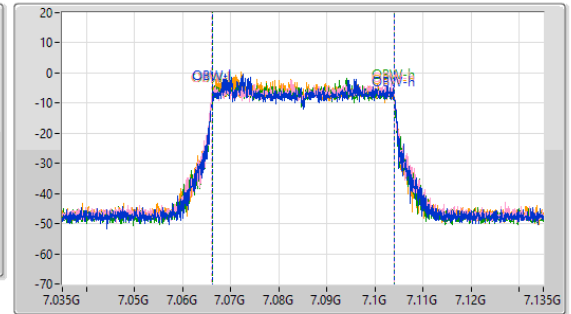
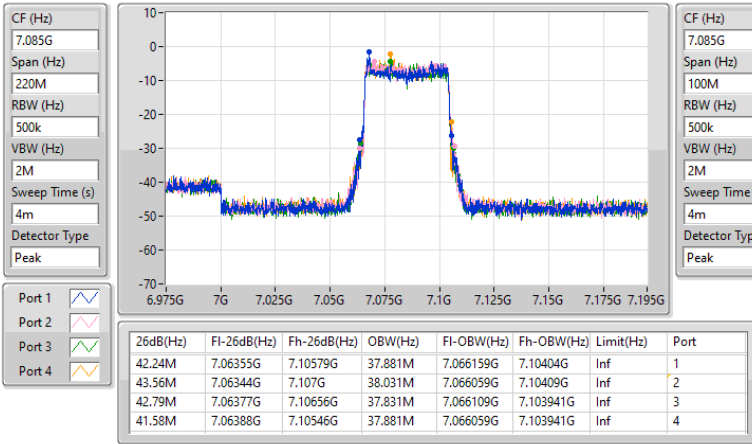


6.875-7.125GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

7085MHz

18/10/2023

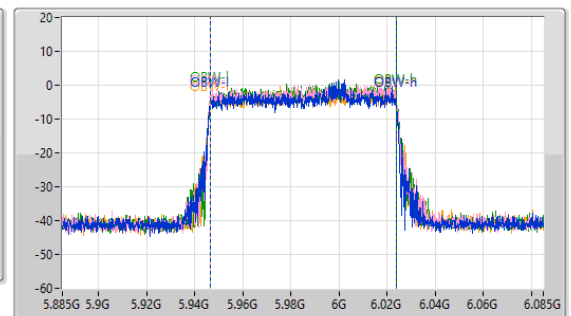
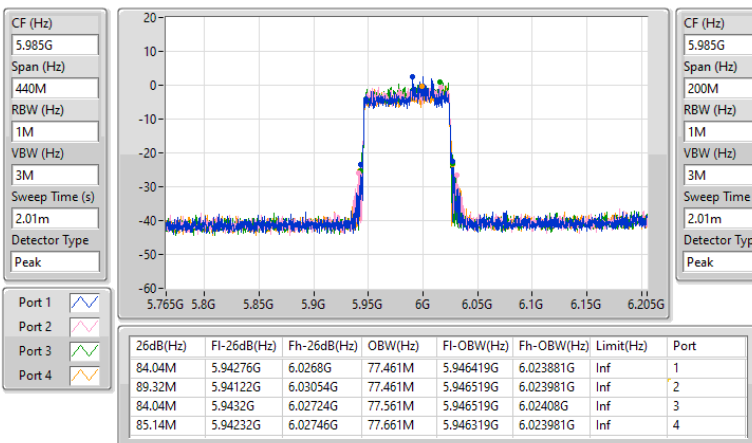


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5985MHz

18/10/2023

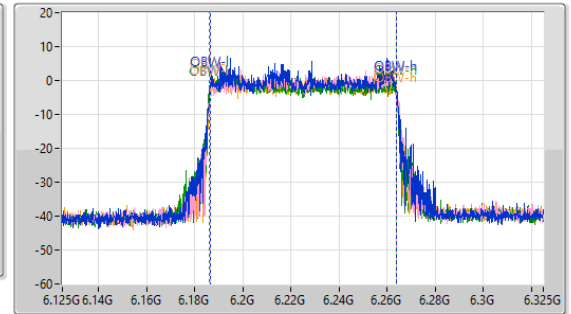
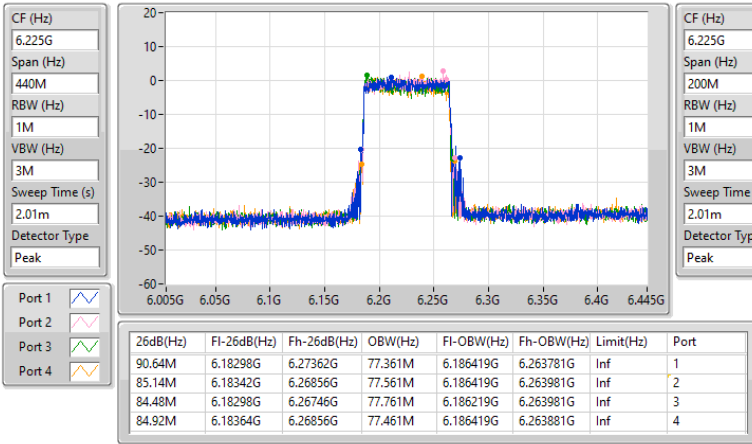


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6225MHz

18/10/2023

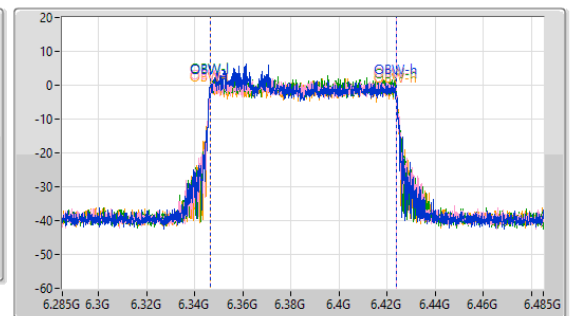
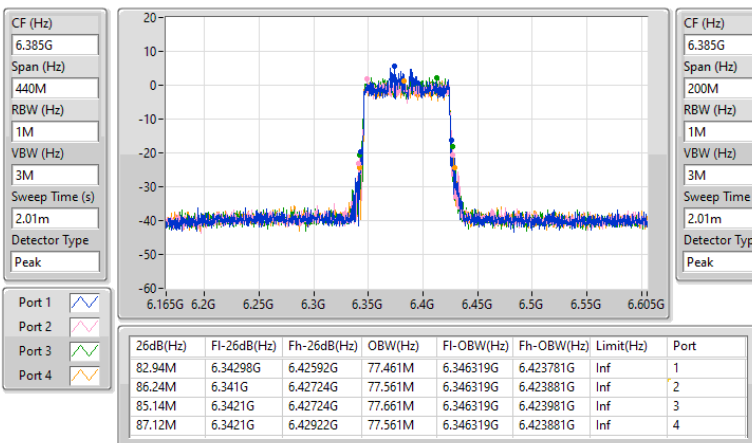


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6385MHz

18/10/2023

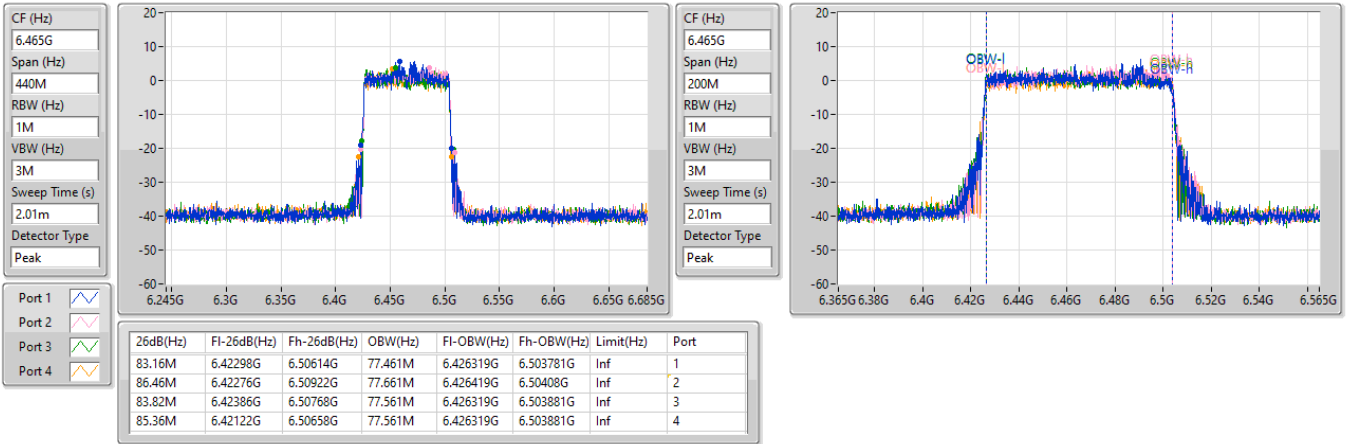


6.425-6.525GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6465MHz

18/10/2023

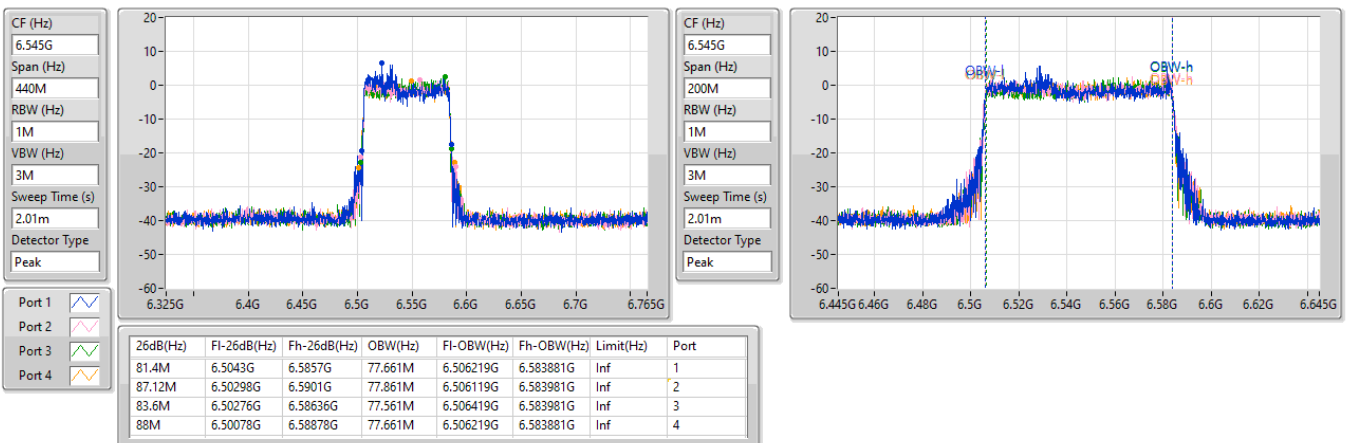


6.425-6.525GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6545MHz

18/10/2023

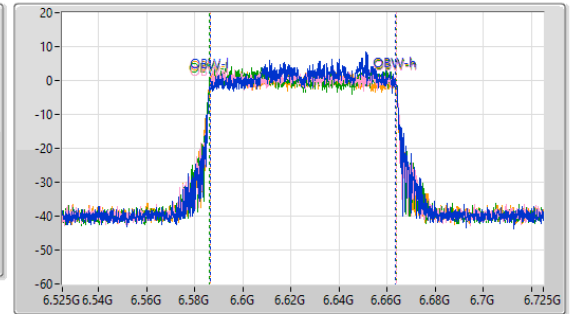
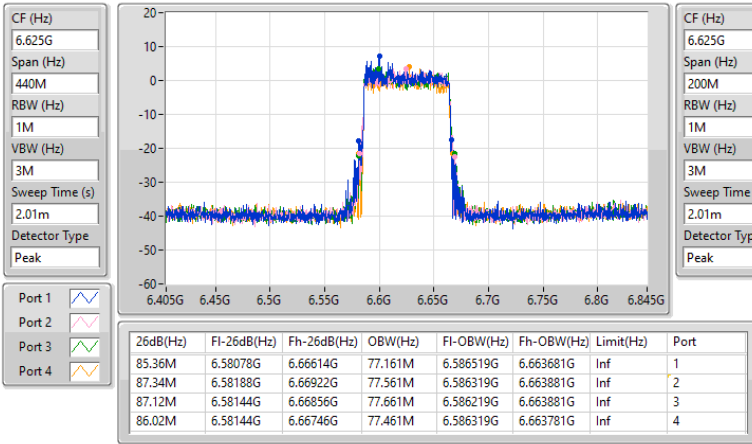


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6625MHz

18/10/2023

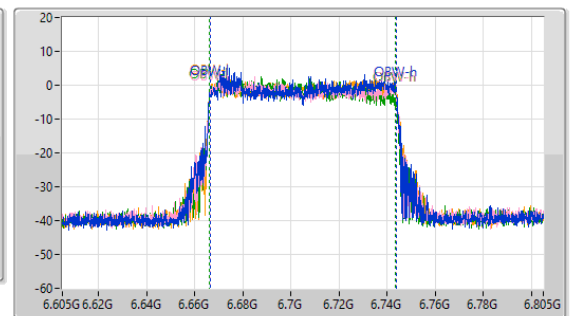
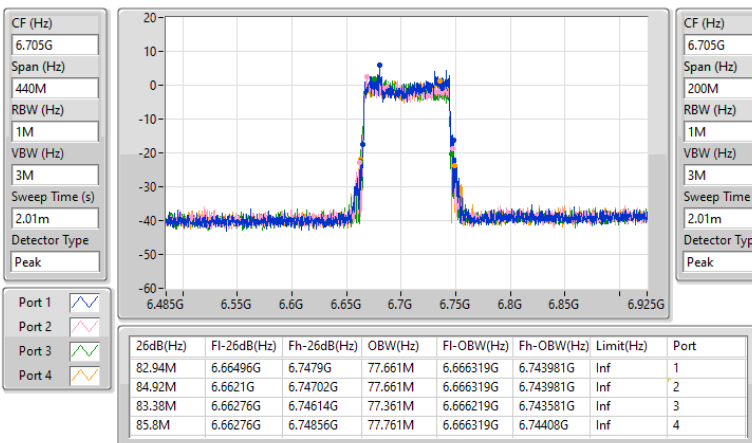


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6705MHz

18/10/2023

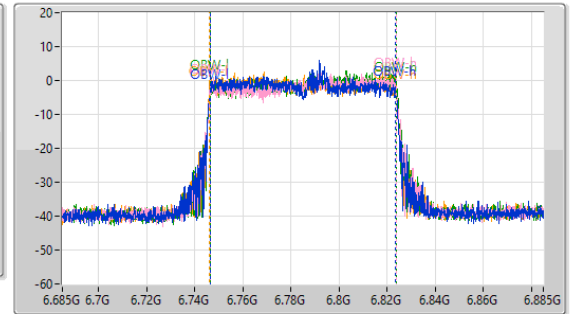
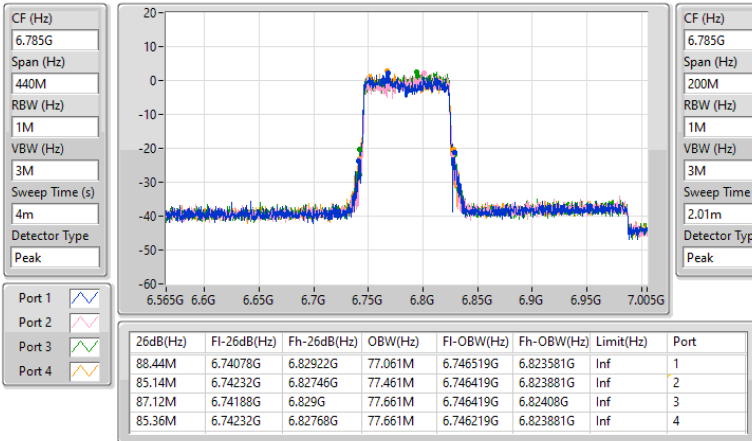


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6785MHz

18/10/2023

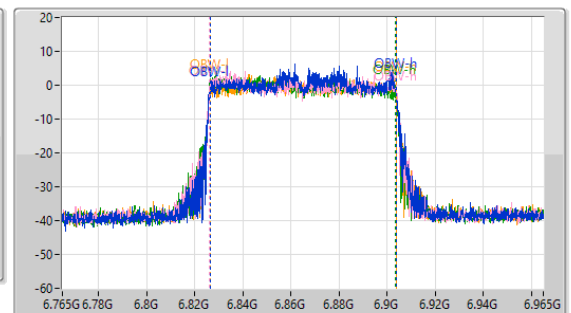
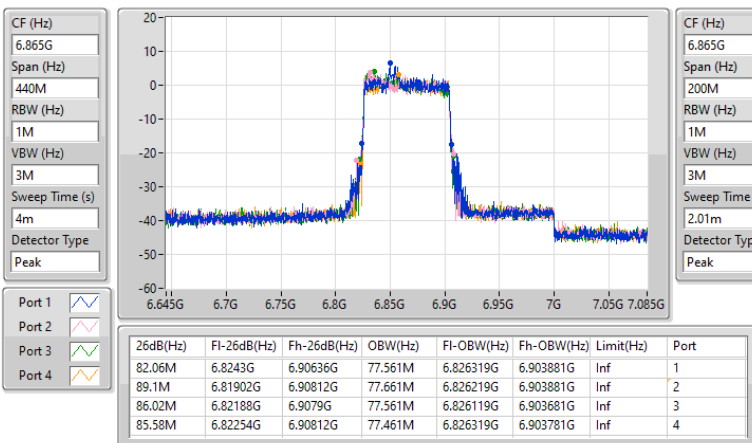


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6865MHz

18/10/2023

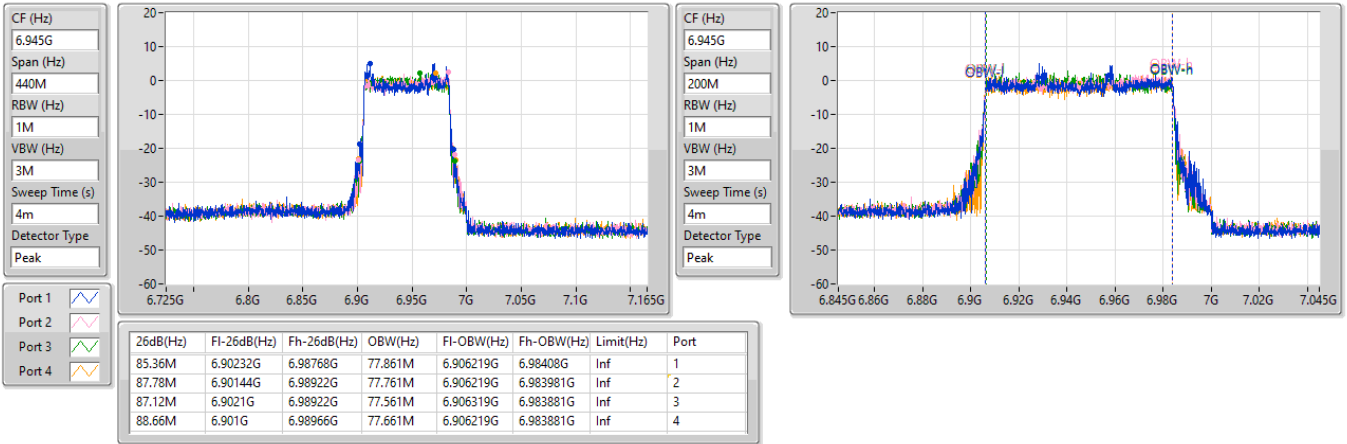


6.875-7.125GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6945MHz

18/10/2023

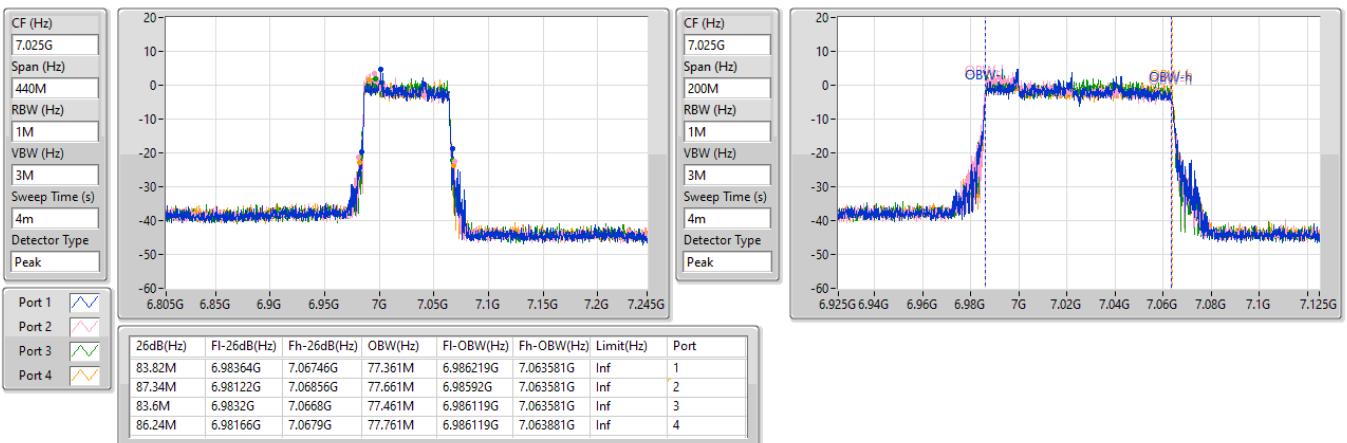


6.875-7.125GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

7025MHz

18/10/2023

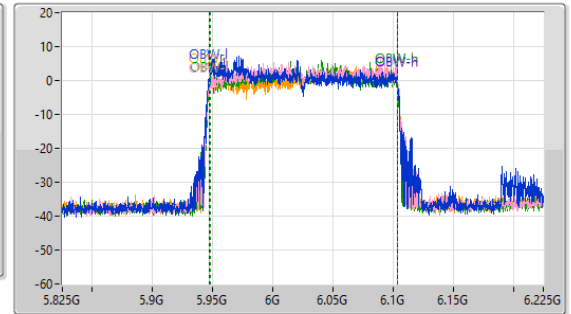
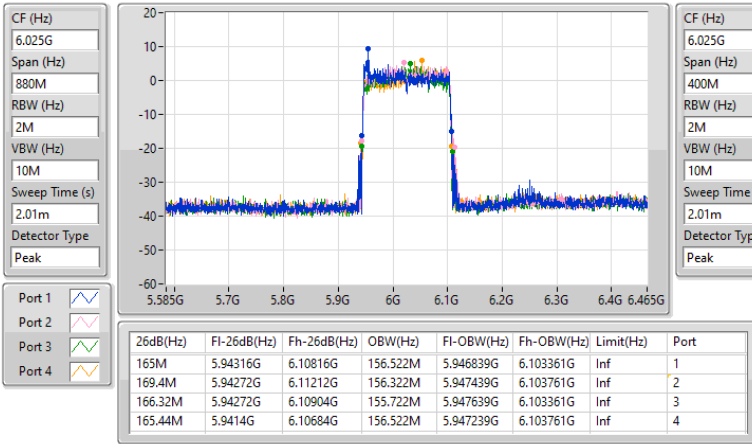


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

6025MHz

18/10/2023

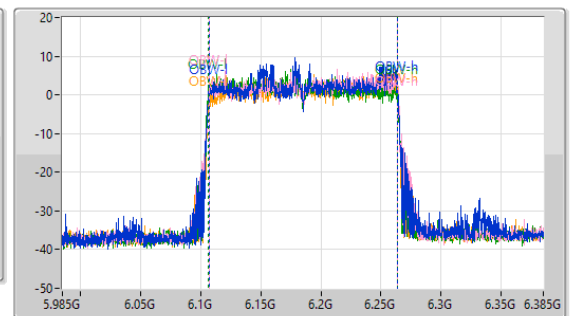
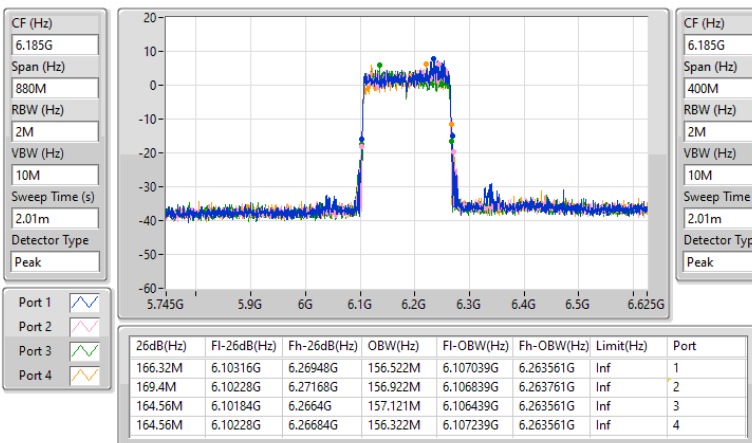


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

6185MHz

18/10/2023

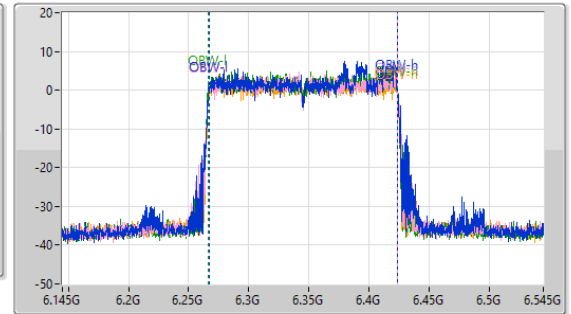
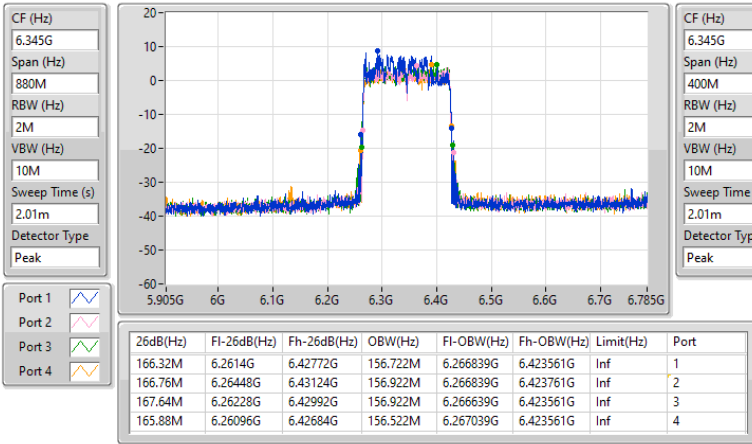


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

6345MHz

18/10/2023

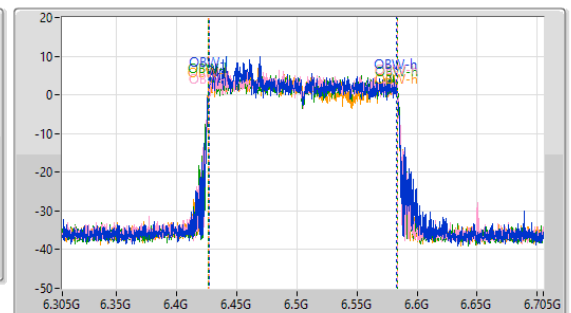
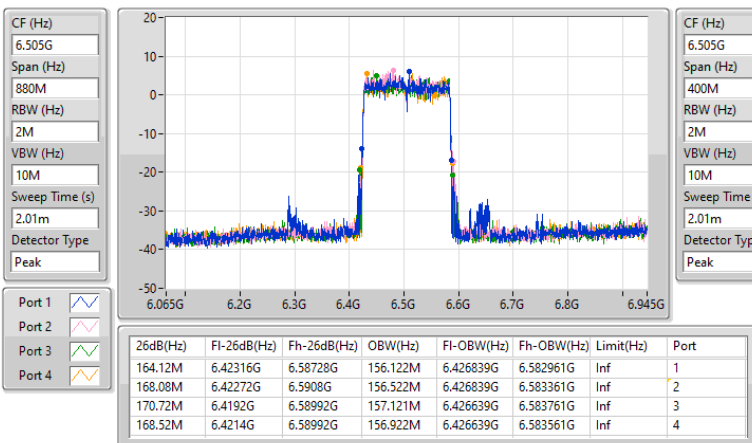


6.425-6.525GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

6505MHz

18/10/2023

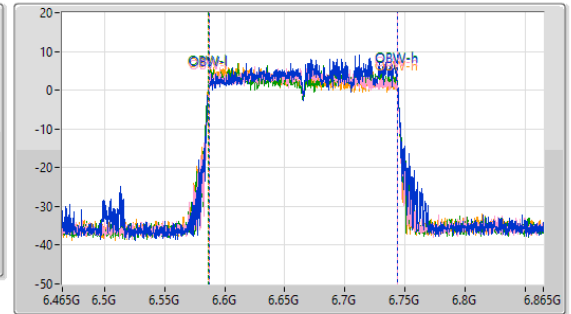
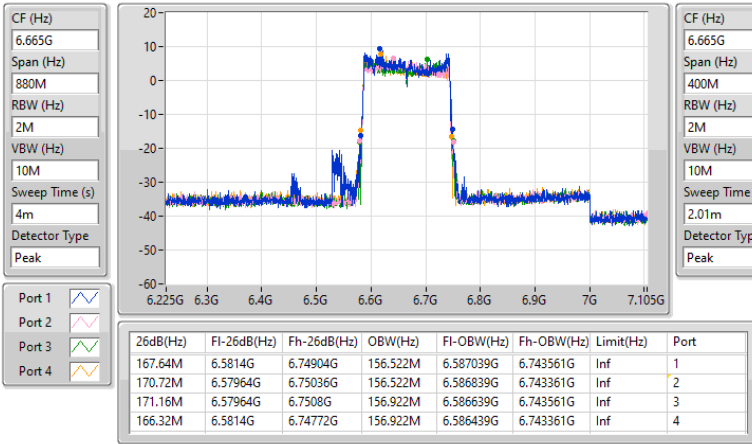


6.525-6.875GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

6665MHz

18/10/2023

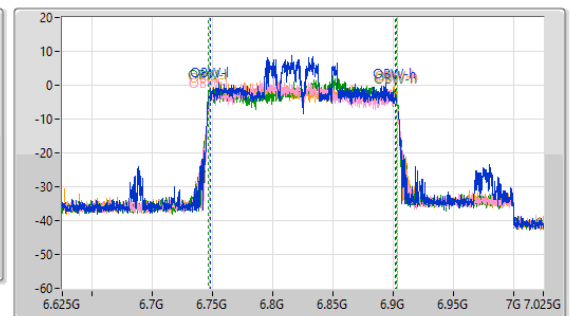
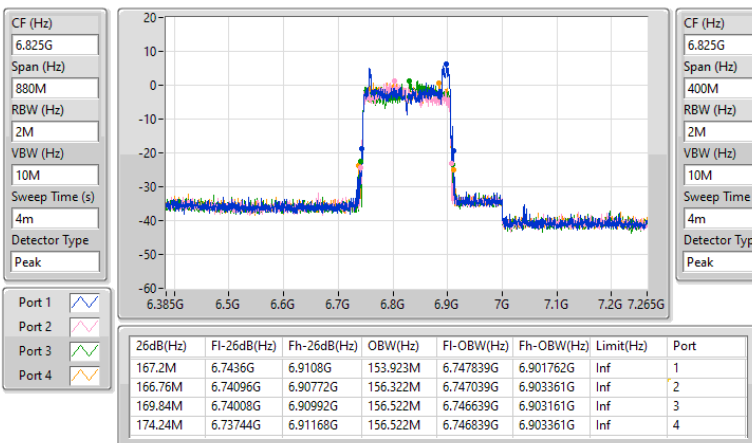


6.525-6.875GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

6825MHz

18/10/2023

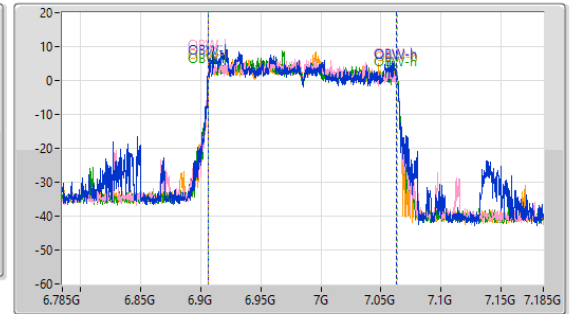
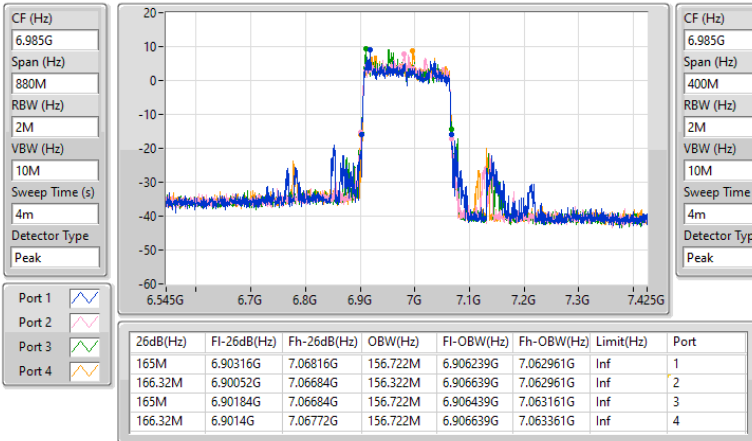


6.875-7.125GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

6985MHz

18/10/2023

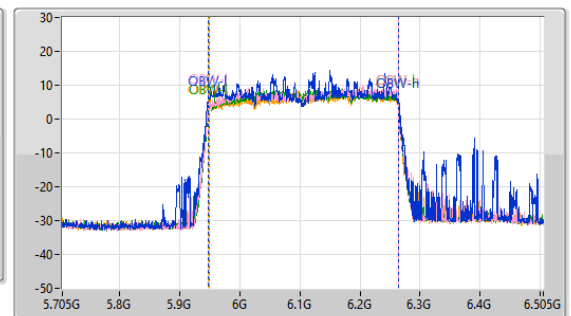
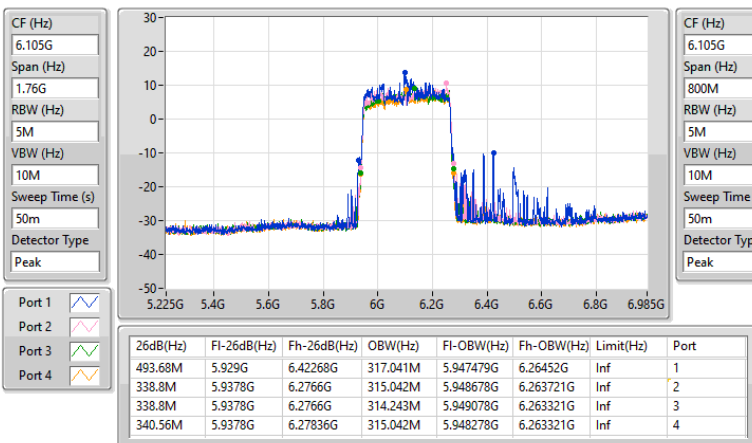


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_4TX

EBW

6105MHz

03/11/2023

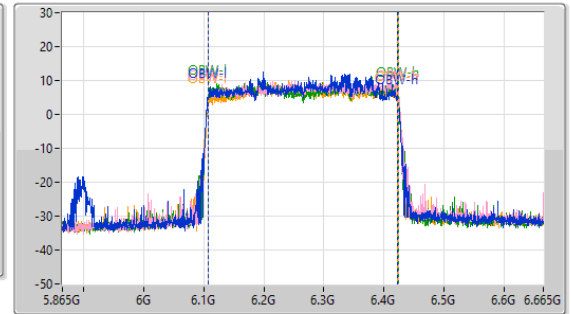
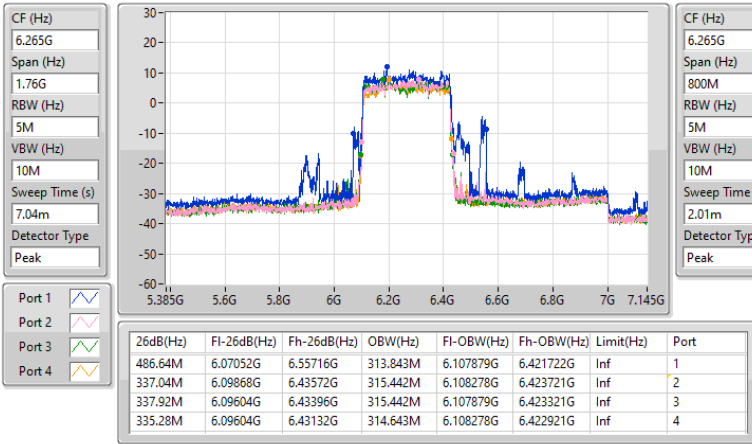


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_4TX

EBW

6265MHz

18/10/2023

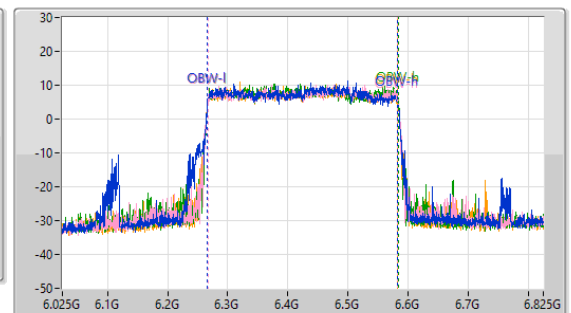
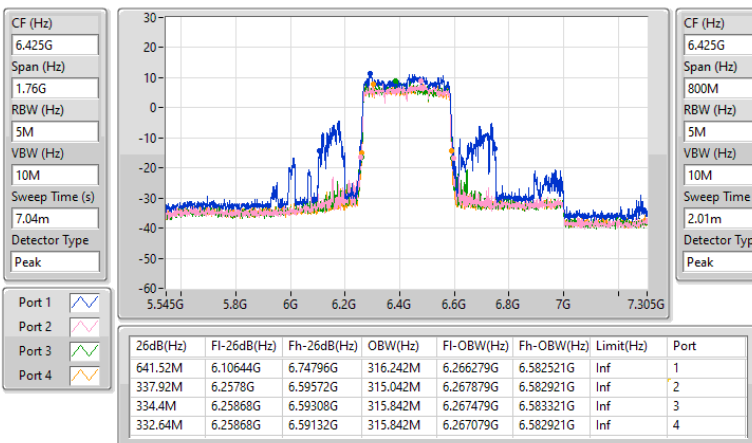


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_4TX

EBW

6425MHz

18/10/2023

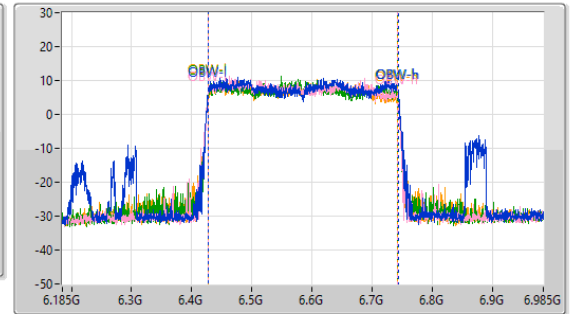
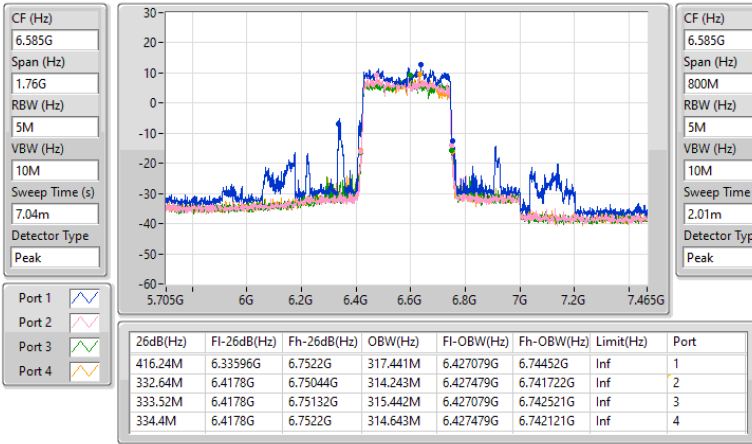


6.425-6.525GHz_802.11be EHT320-BF_Nss1,(MCS0)_4TX

EBW

6585MHz

18/10/2023

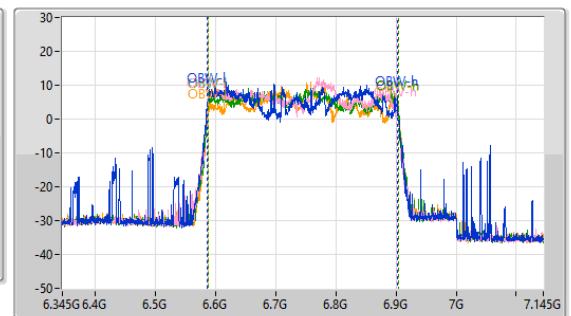
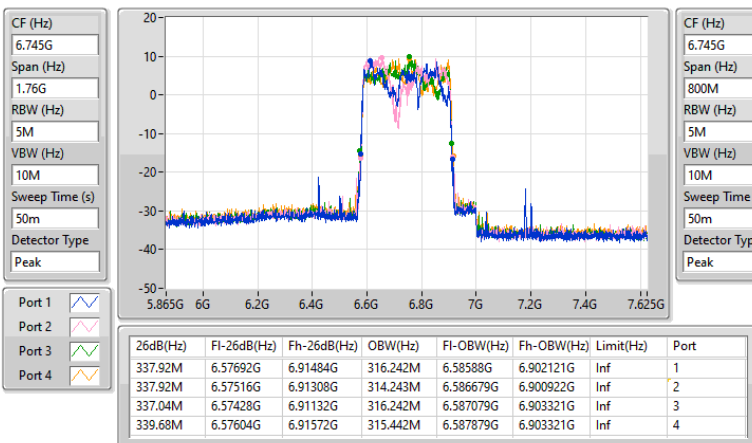


6.525-6.875GHz_802.11be EHT320-BF_Nss1,(MCS0)_4TX

EBW

6745MHz

03/11/2023

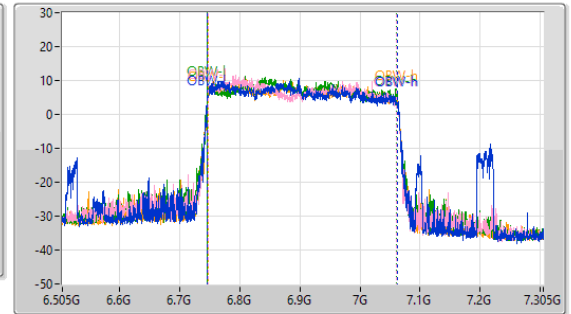
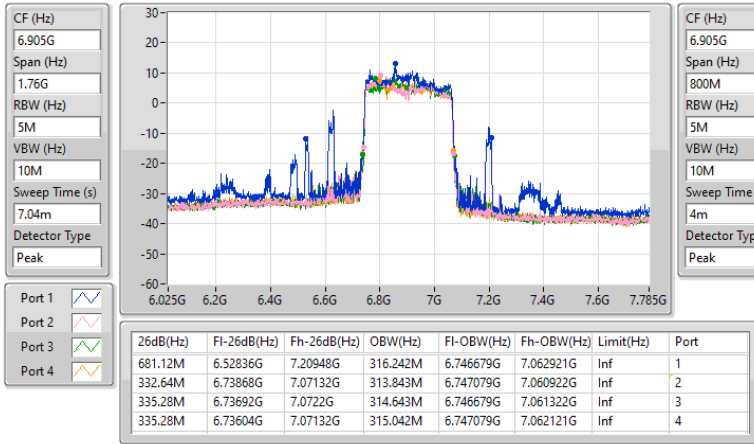


6.525-6.875GHz_802.11be EHT320-BF_Nss1,(MCS0)_4TX

EBW

6905MHz

18/10/2023



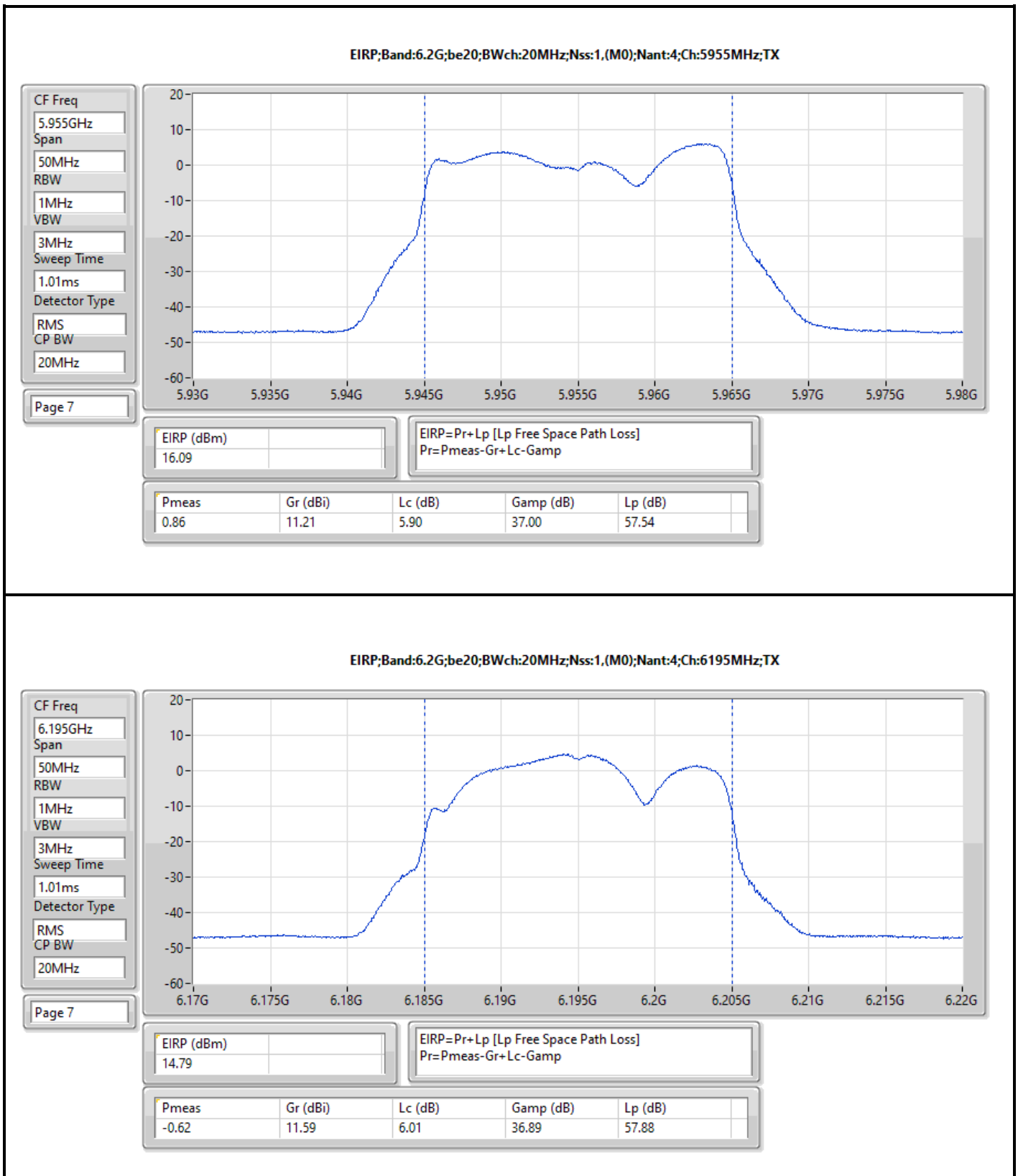
Summary

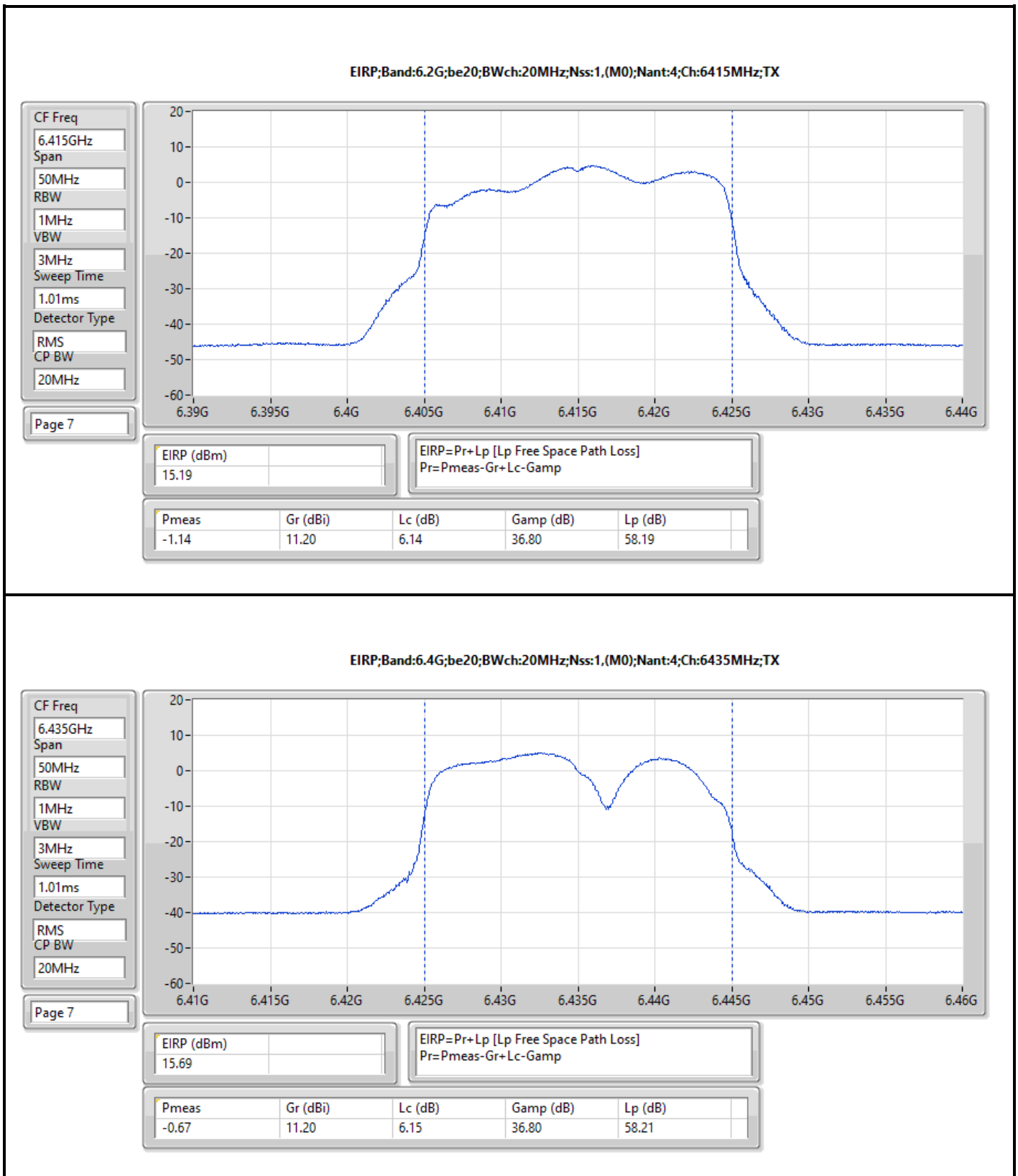
Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	16.09	0.04064
802.11be EHT40_Nss1,(MCS0)_4TX	18.57	0.07194
802.11be EHT80_Nss1,(MCS0)_4TX	21.39	0.13772
802.11be EHT160_Nss1,(MCS0)_4TX	24.53	0.28379
802.11be EHT320_Nss1,(MCS0)_4TX	28.40	0.69183
6.425-6.525GHz	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	15.68	0.03698
802.11be EHT40_Nss1,(MCS0)_4TX	18.40	0.06918
802.11be EHT80_Nss1,(MCS0)_4TX	21.10	0.12882
802.11be EHT160_Nss1,(MCS0)_4TX	24.24	0.26546
802.11be EHT320_Nss1,(MCS0)_4TX	27.15	0.51880
6.525-6.875GHz	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	15.64	0.03664
802.11be EHT40_Nss1,(MCS0)_4TX	18.19	0.06592
802.11be EHT80_Nss1,(MCS0)_4TX	21.50	0.14125
802.11be EHT160_Nss1,(MCS0)_4TX	24.72	0.29648
802.11be EHT320_Nss1,(MCS0)_4TX	26.93	0.49317
6.875-7.125GHz	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	15.25	0.03350
802.11be EHT40_Nss1,(MCS0)_4TX	18.22	0.06637
802.11be EHT80_Nss1,(MCS0)_4TX	20.87	0.12218
802.11be EHT160_Nss1,(MCS0)_4TX	22.91	0.19543

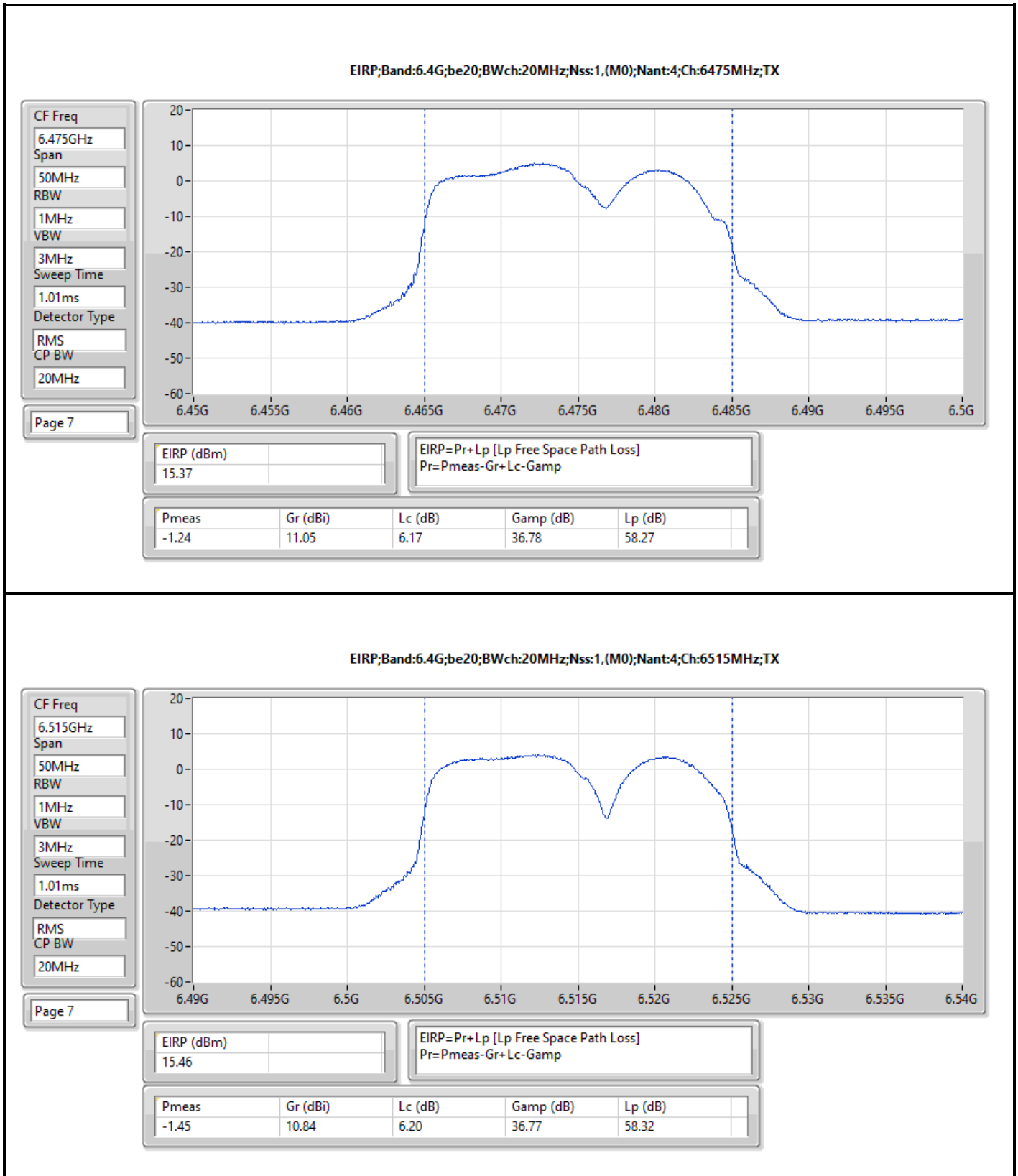
Result

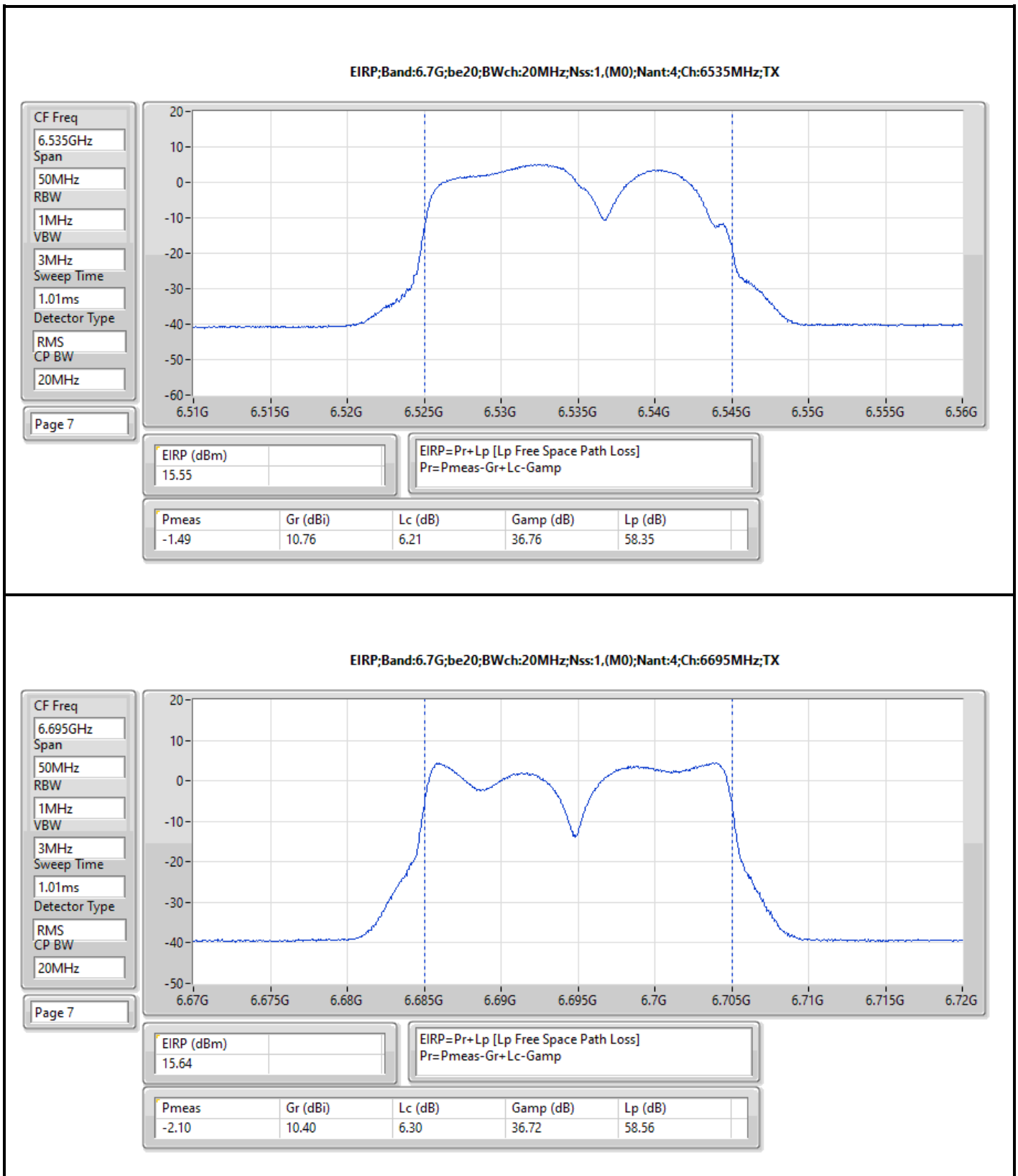
Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-
5955MHz	Pass	16.09	30.00
6195MHz	Pass	14.79	30.00
6415MHz	Pass	15.19	30.00
6435MHz	Pass	15.69	30.00
6475MHz	Pass	15.37	30.00
6515MHz	Pass	15.46	30.00
6535MHz	Pass	15.55	30.00
6695MHz	Pass	15.64	30.00
6875MHz	Pass	14.57	30.00
6895MHz	Pass	13.99	30.00
6995MHz	Pass	15.25	30.00
7095MHz	Pass	13.77	30.00
7115MHz	Pass	9.13	30.00
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-
5965MHz	Pass	17.21	30.00
6205MHz	Pass	17.47	30.00
6405MHz	Pass	18.57	30.00
6445MHz	Pass	17.53	30.00
6485MHz	Pass	18.14	30.00
6525MHz	Pass	18.40	30.00
6565MHz	Pass	17.76	30.00
6685MHz	Pass	18.19	30.00
6885MHz	Pass	17.54	30.00
6925MHz	Pass	18.22	30.00
7005MHz	Pass	17.94	30.00
7085MHz	Pass	16.64	30.00
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-
5985MHz	Pass	20.31	30.00
6225MHz	Pass	19.77	30.00
6385MHz	Pass	21.39	30.00
6465MHz	Pass	21.10	30.00
6545MHz	Pass	21.01	30.00
6625MHz	Pass	21.06	30.00
6705MHz	Pass	21.28	30.00
6785MHz	Pass	21.18	30.00
6865MHz	Pass	21.50	30.00
6945MHz	Pass	20.79	30.00
7025MHz	Pass	20.87	30.00
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-
6025MHz	Pass	23.98	30.00
6185MHz	Pass	23.98	30.00
6345MHz	Pass	24.53	30.00
6505MHz	Pass	24.24	30.00
6665MHz	Pass	24.29	30.00
6825MHz	Pass	24.72	30.00
6985MHz	Pass	22.91	30.00
802.11be EHT320_Nss1,(MCS0)_4TX	-	-	-
6105MHz	Pass	26.19	30.00
6265MHz	Pass	25.68	30.00
6425MHz	Pass	28.40	30.00
6585MHz	Pass	27.15	30.00
6745MHz	Pass	26.73	30.00
6905MHz	Pass	26.93	30.00

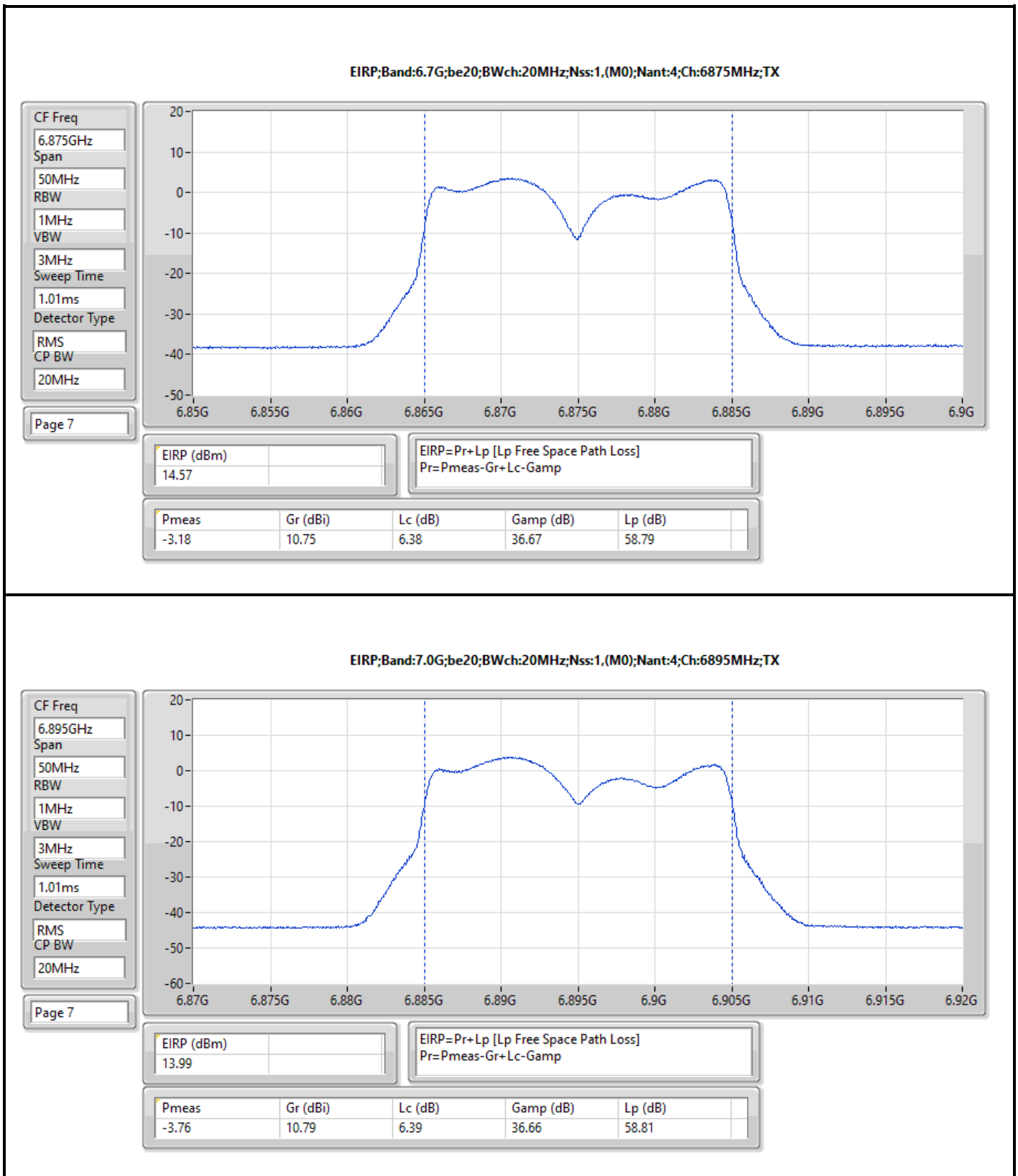
DG = Directional Gain; Port X = Port X output power

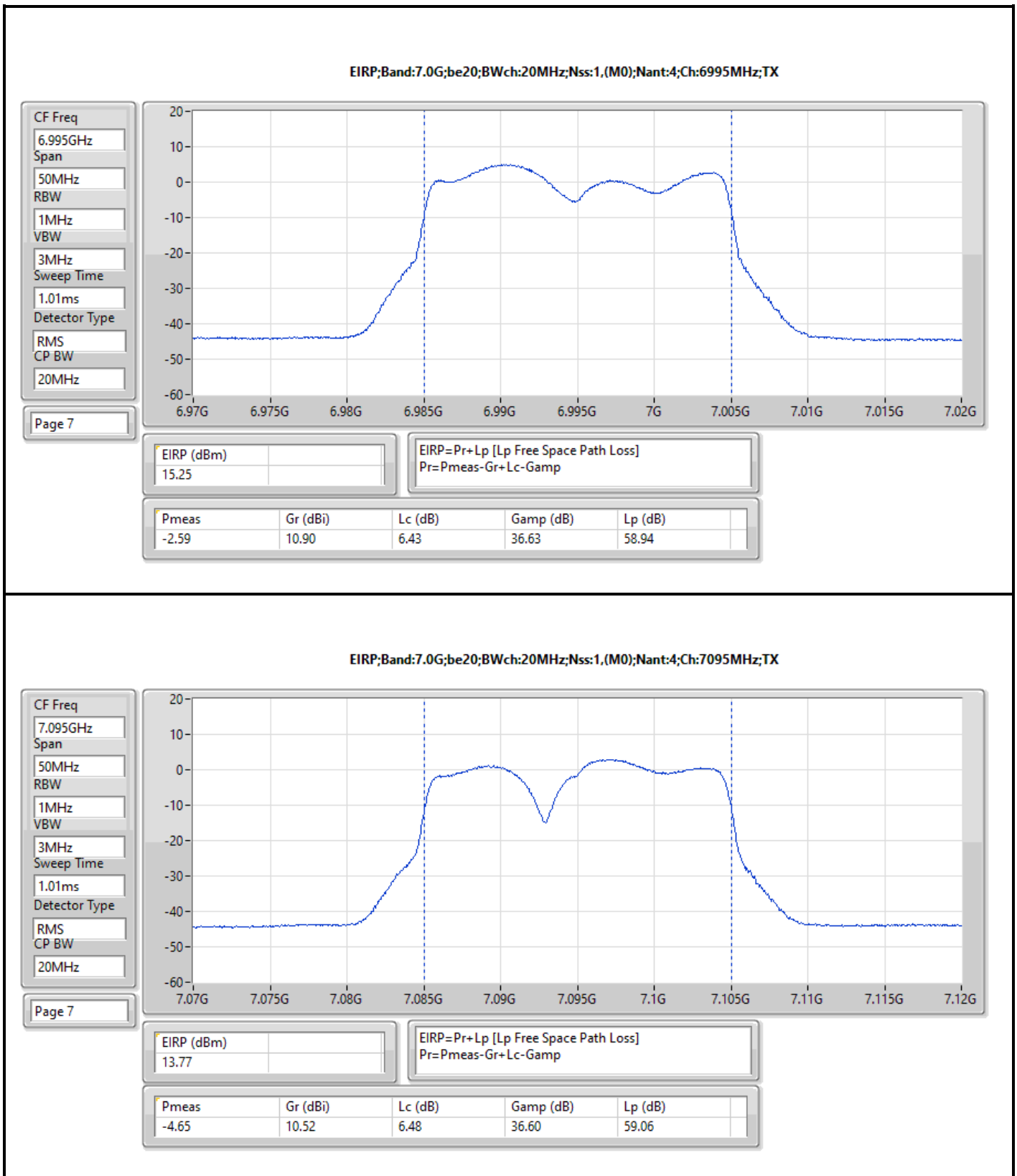


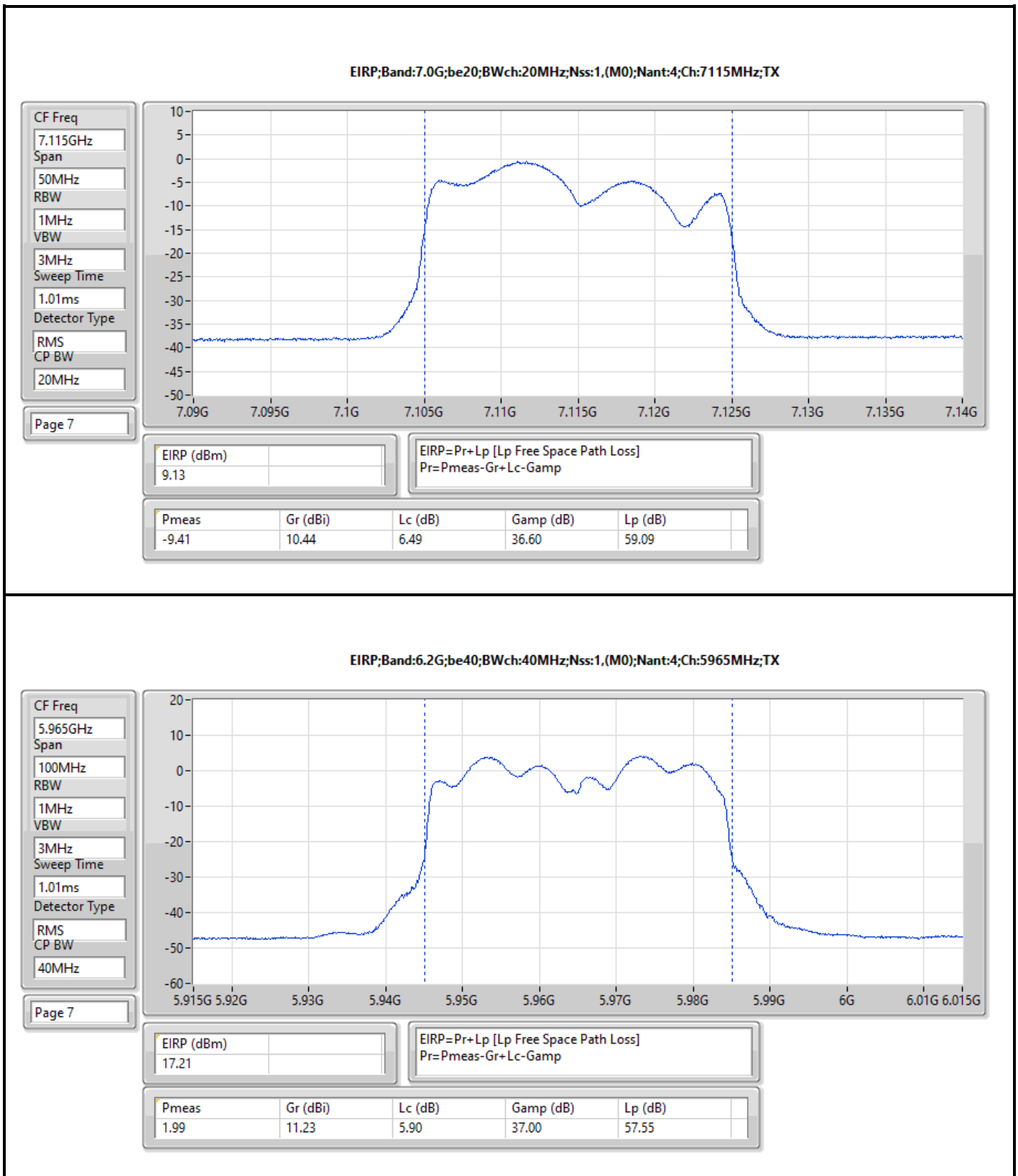


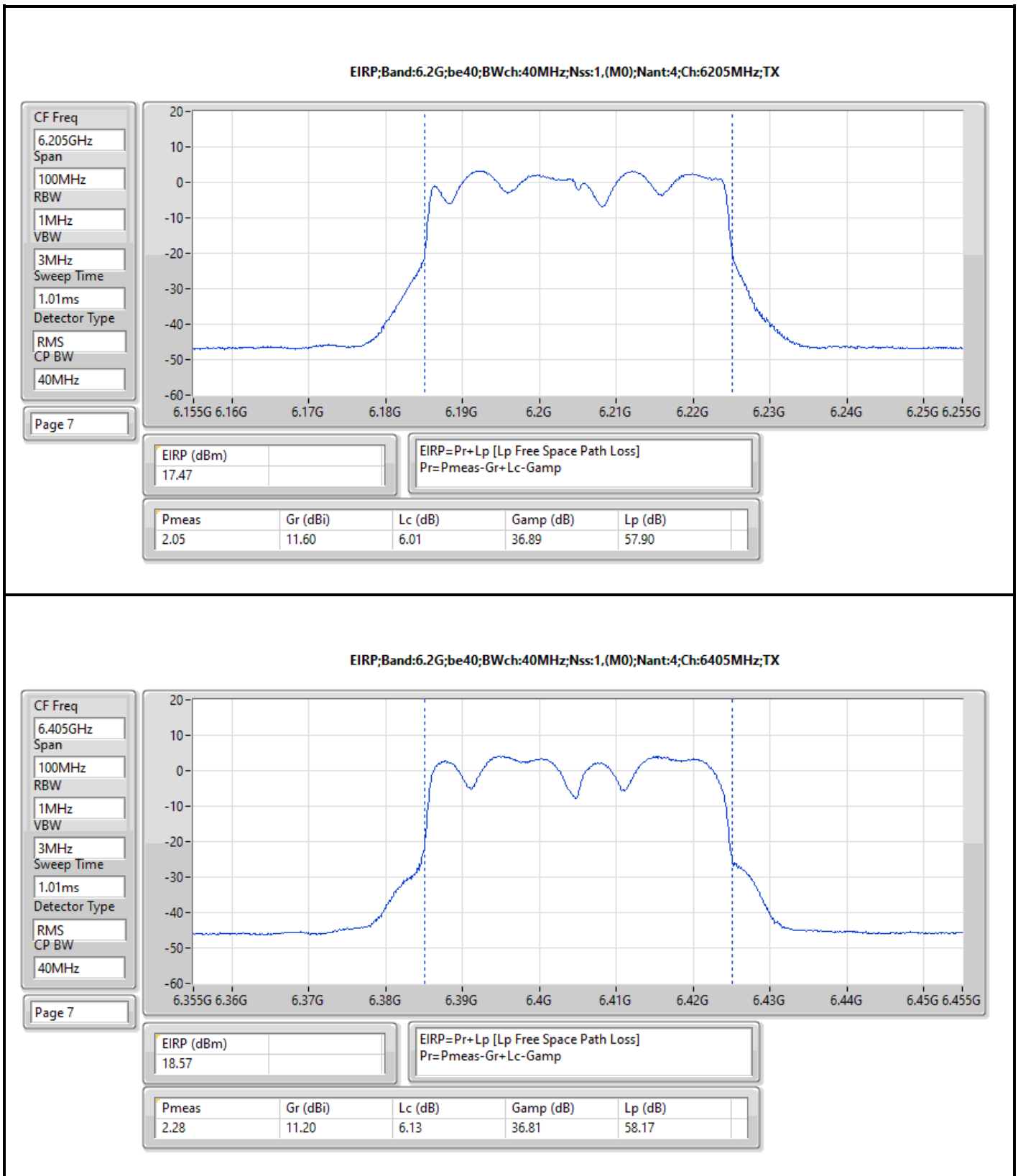


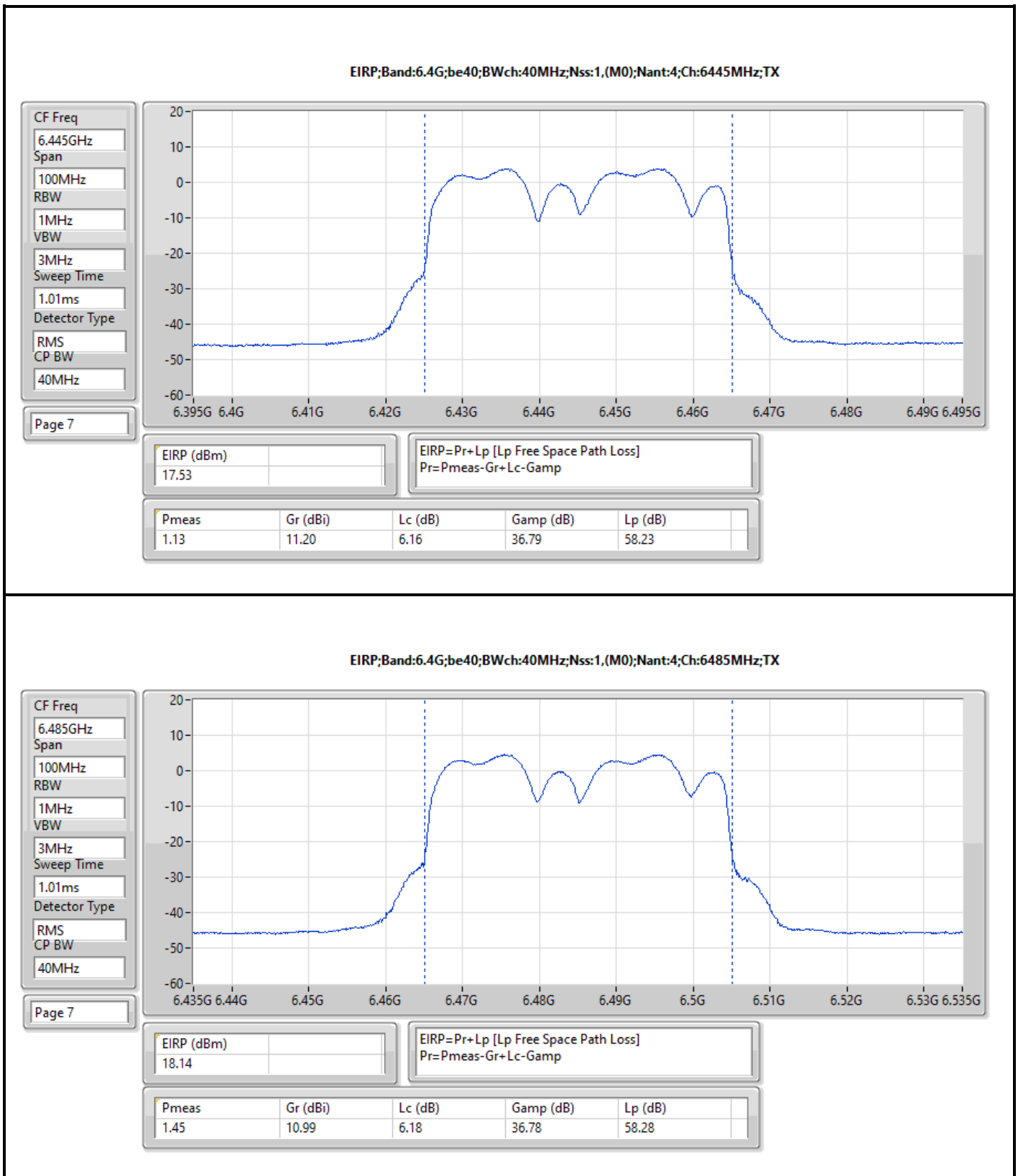


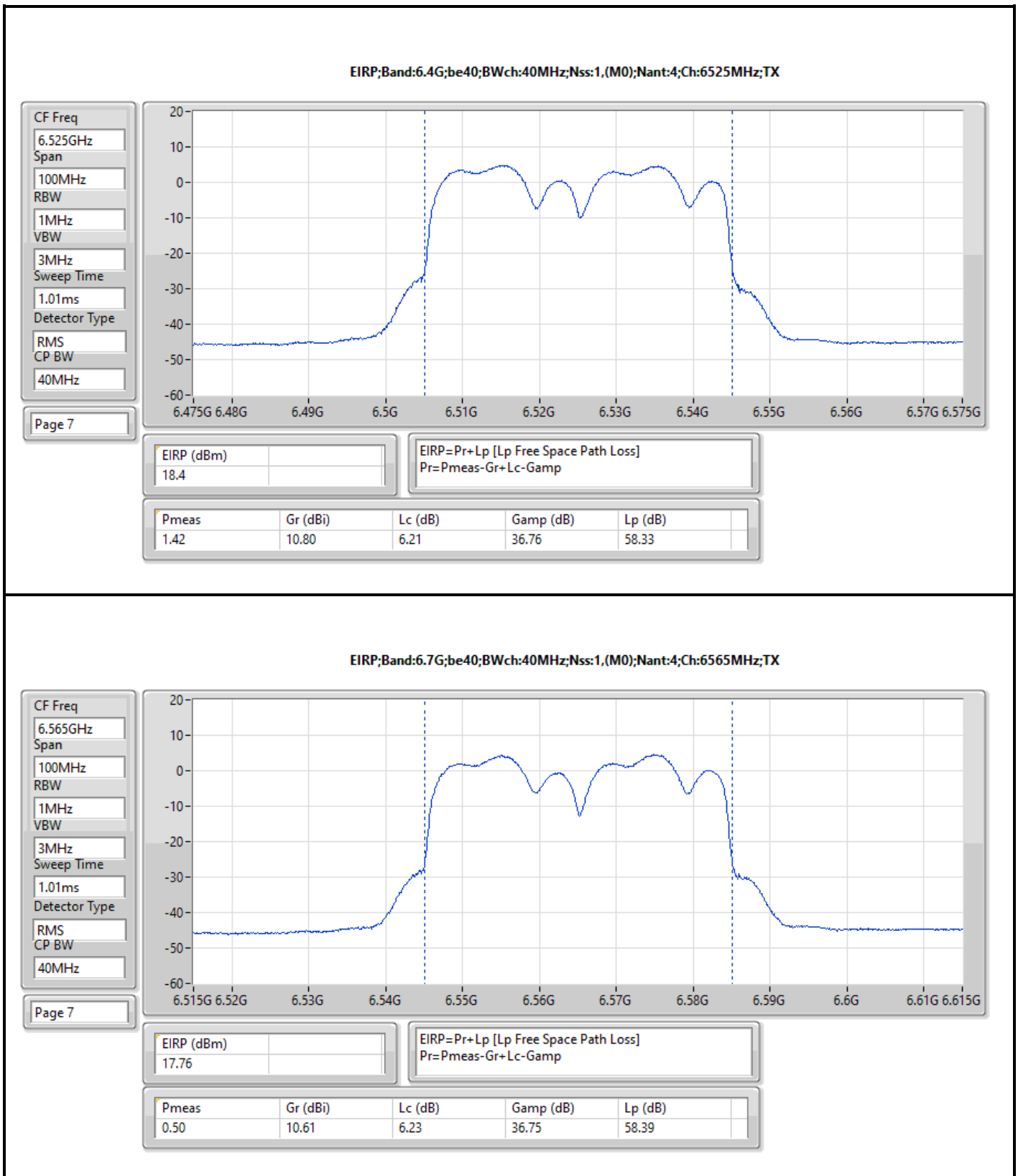


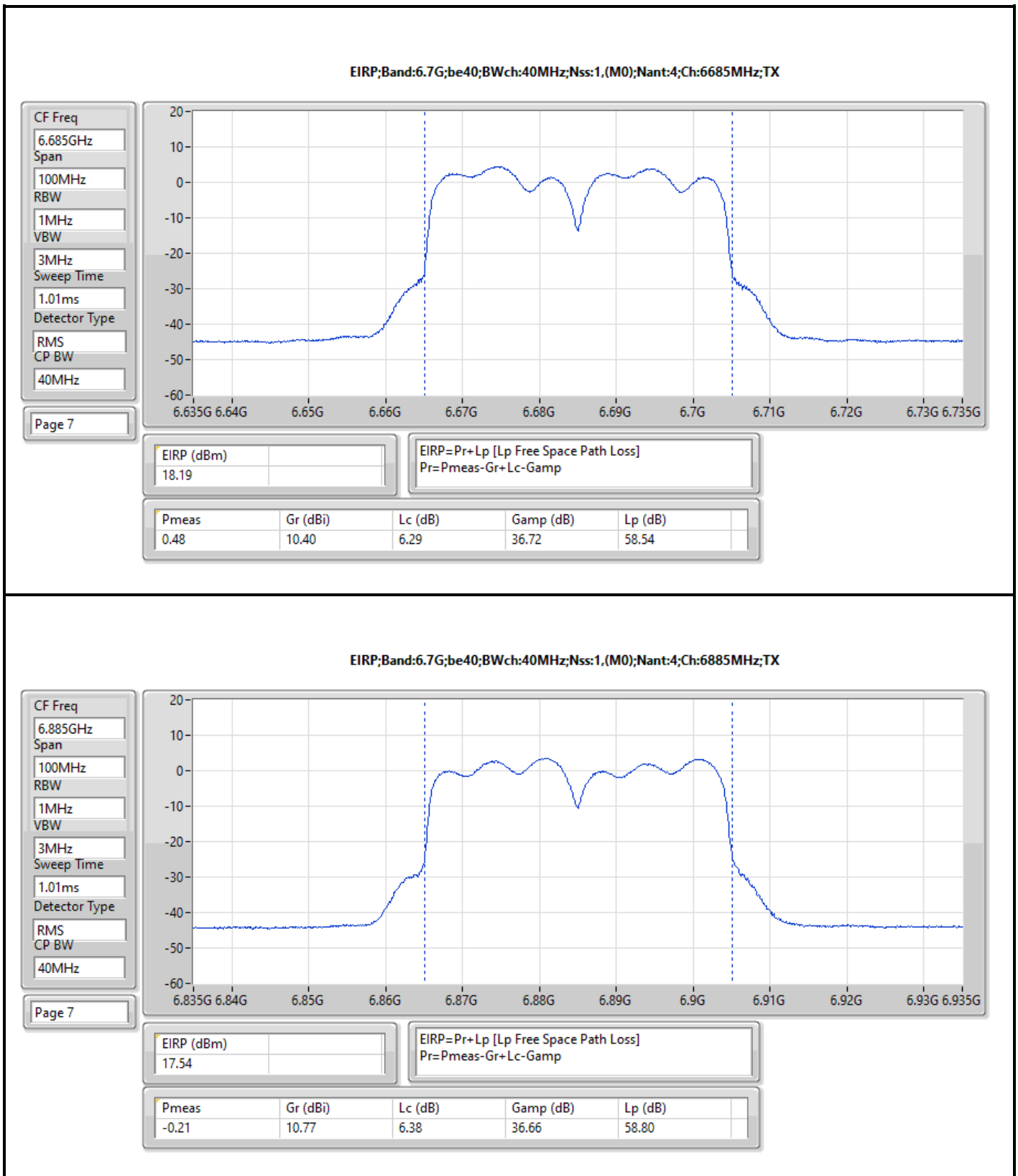


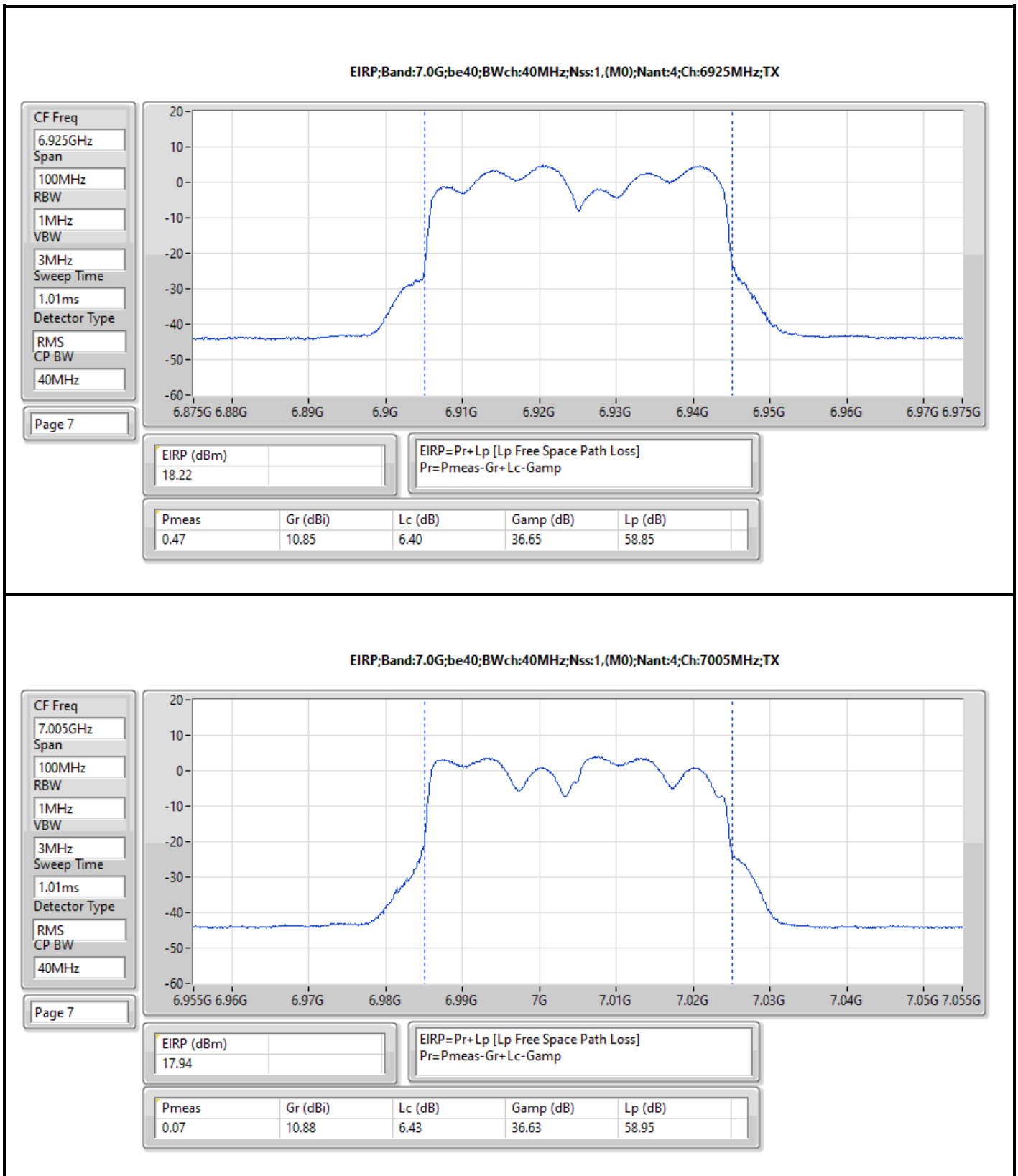


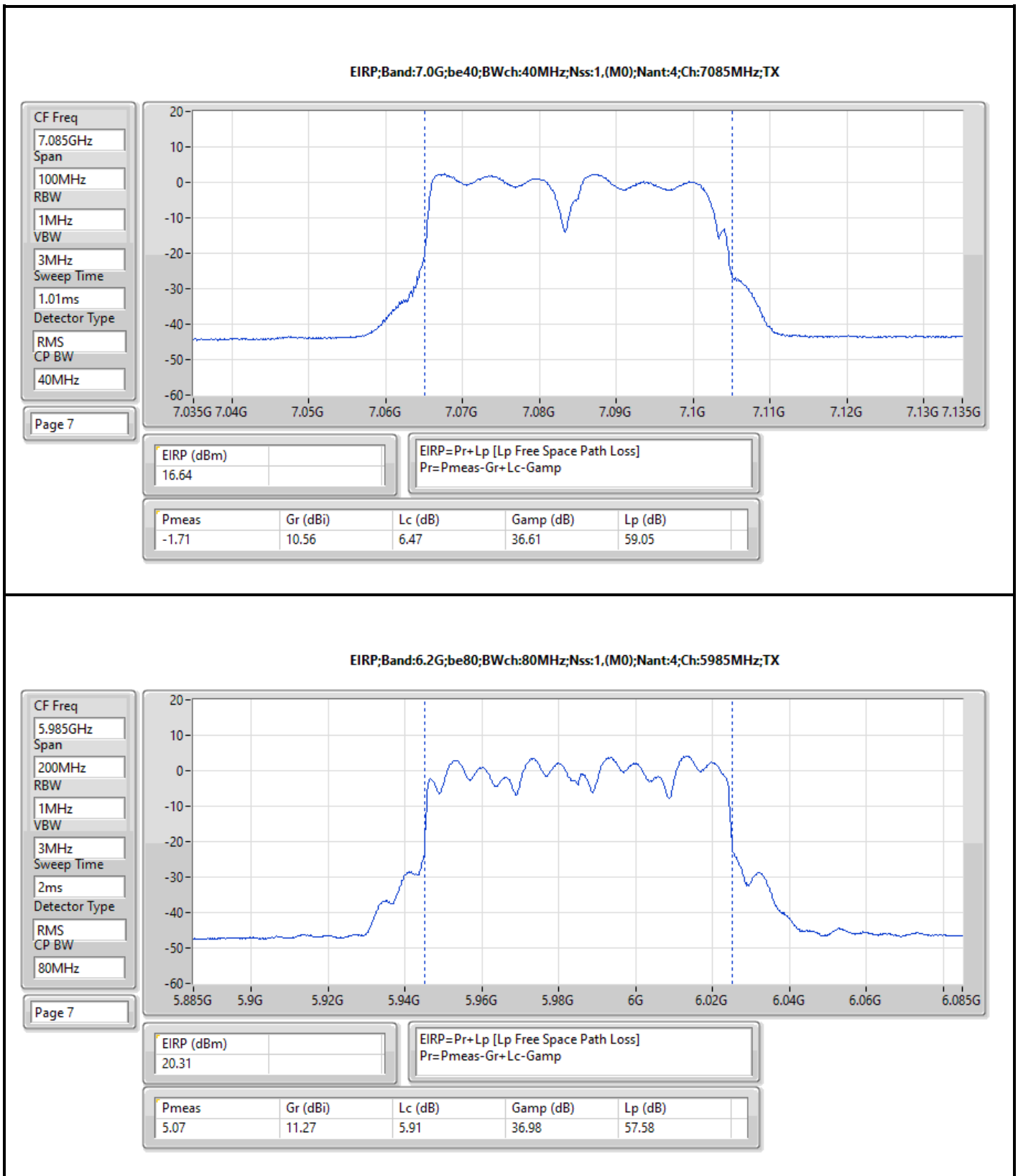


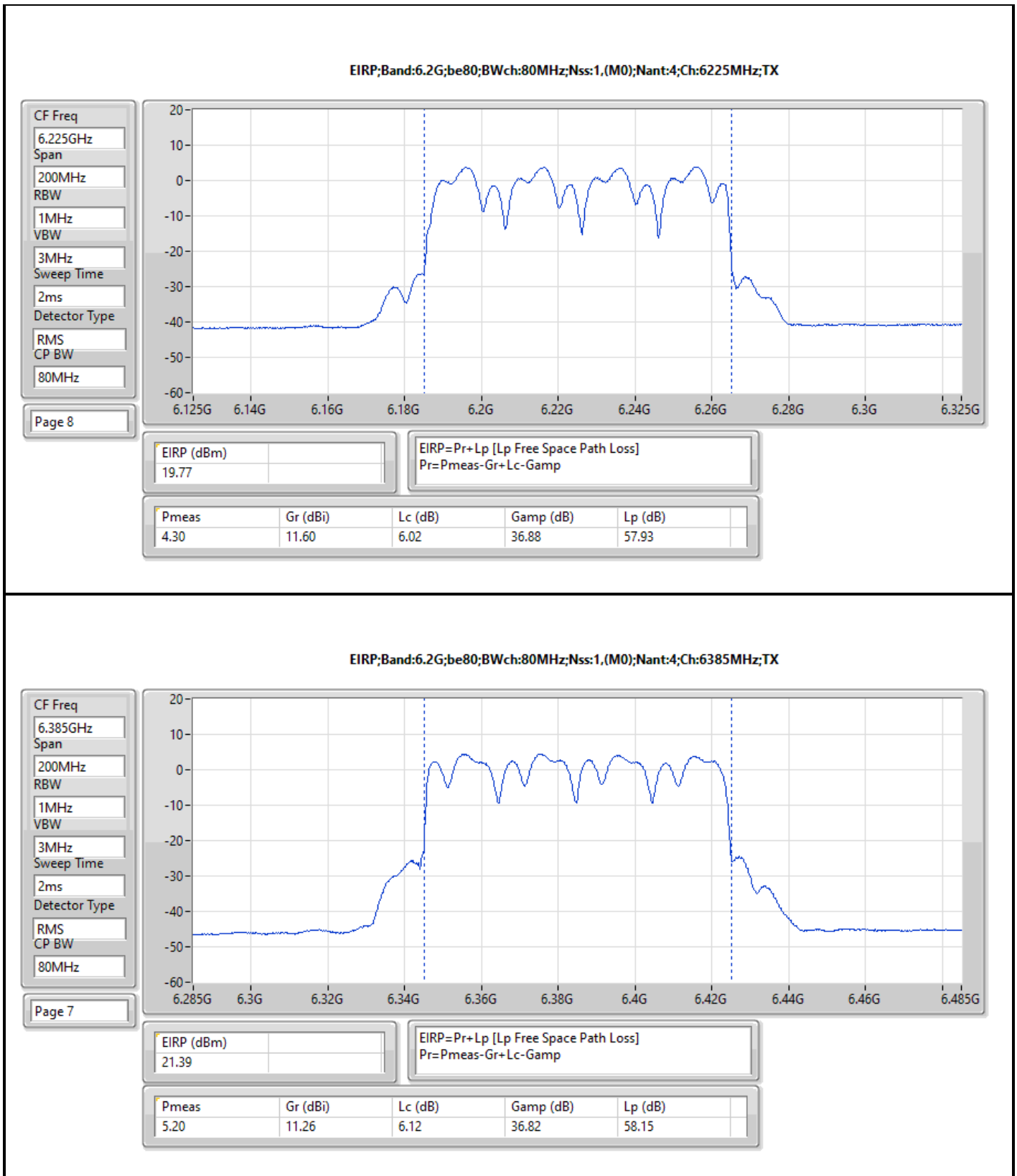


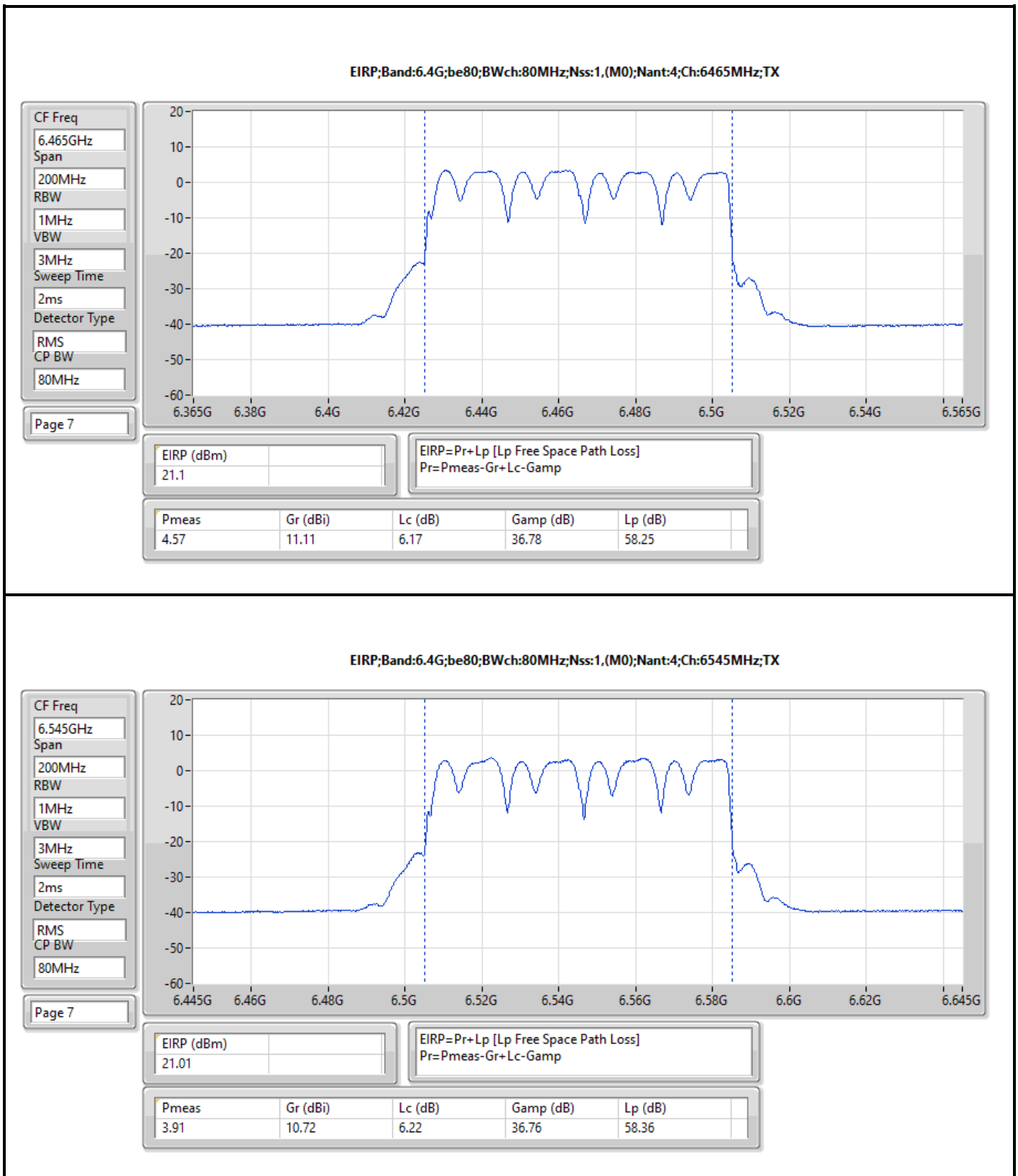


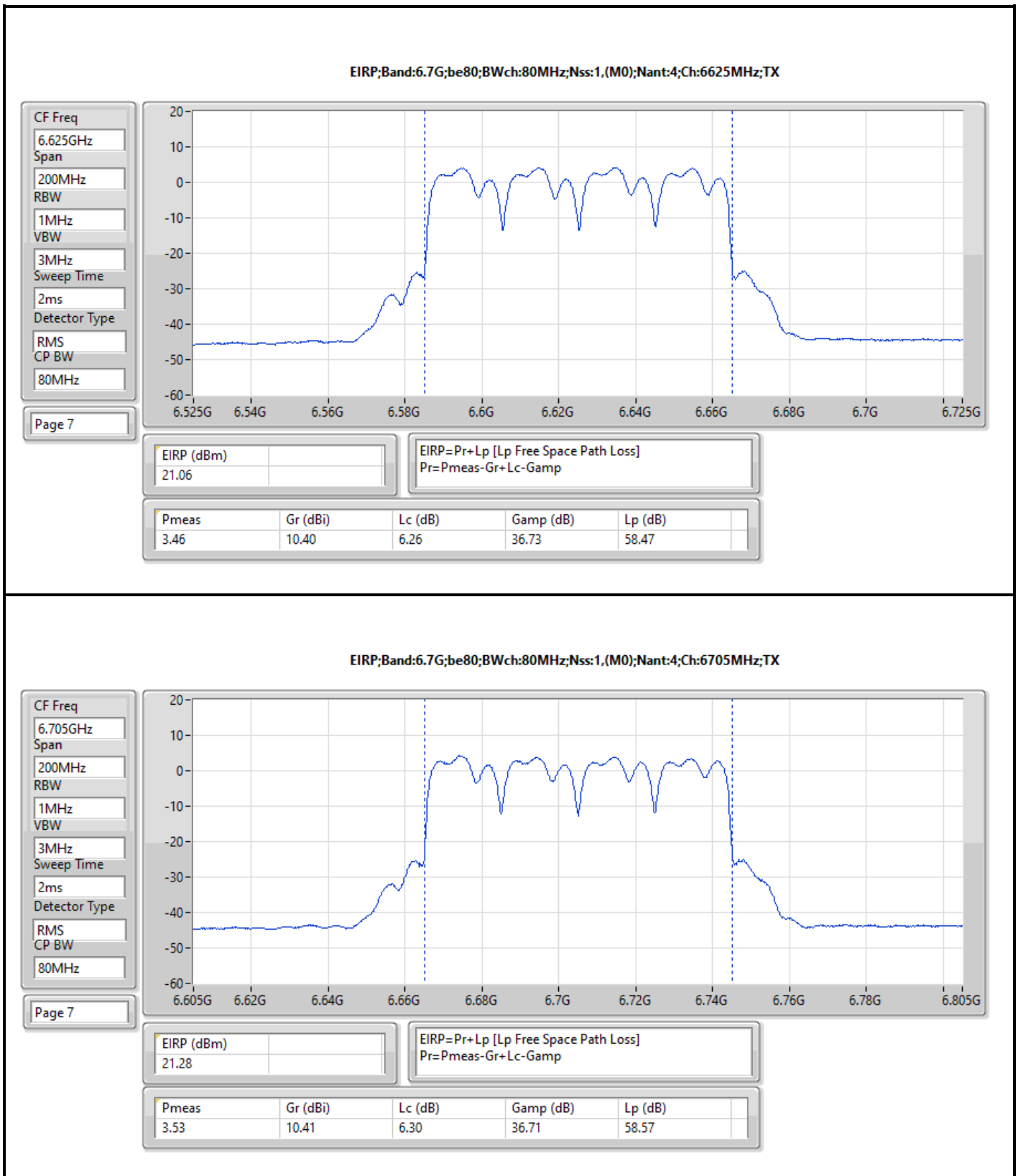


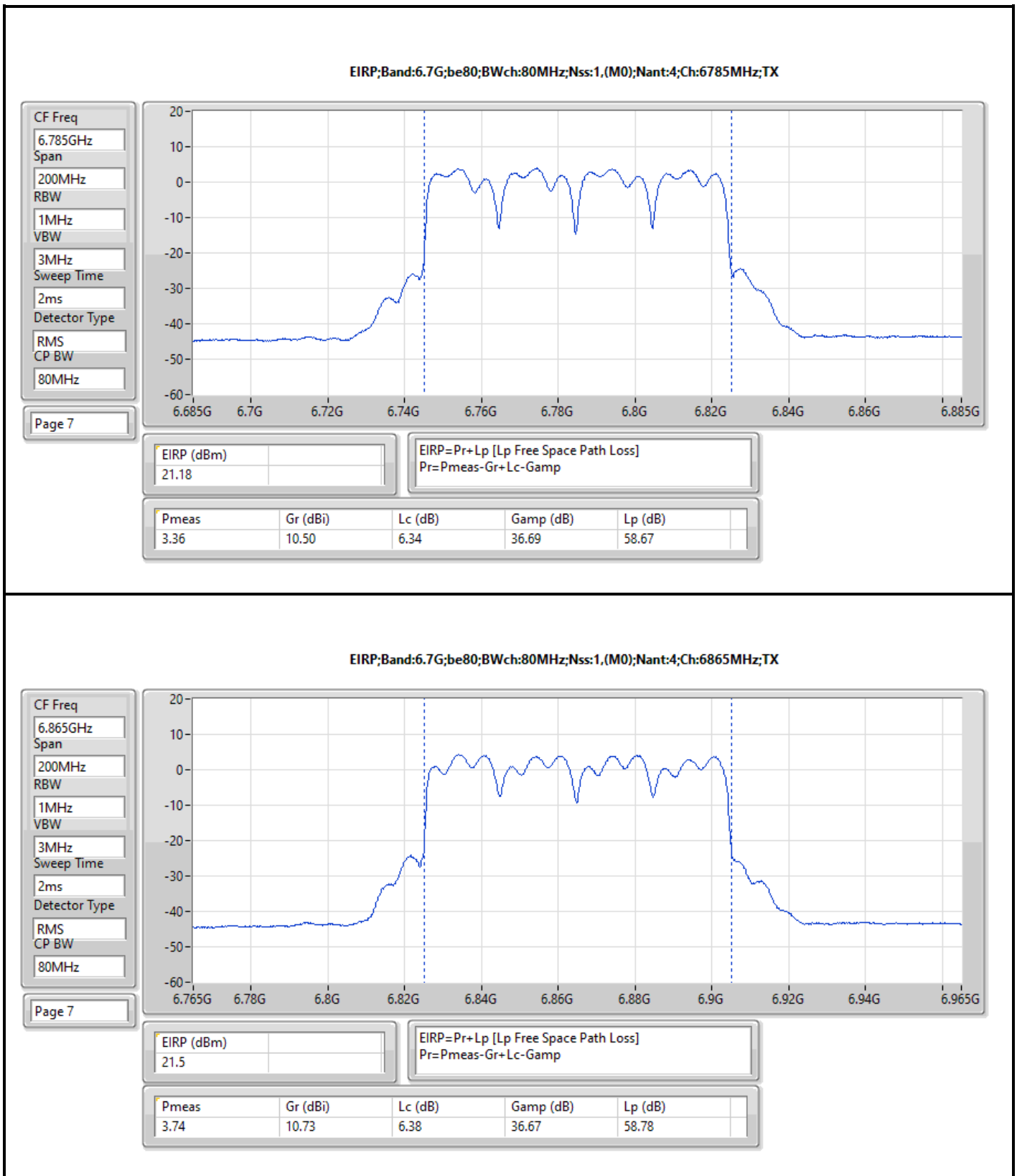


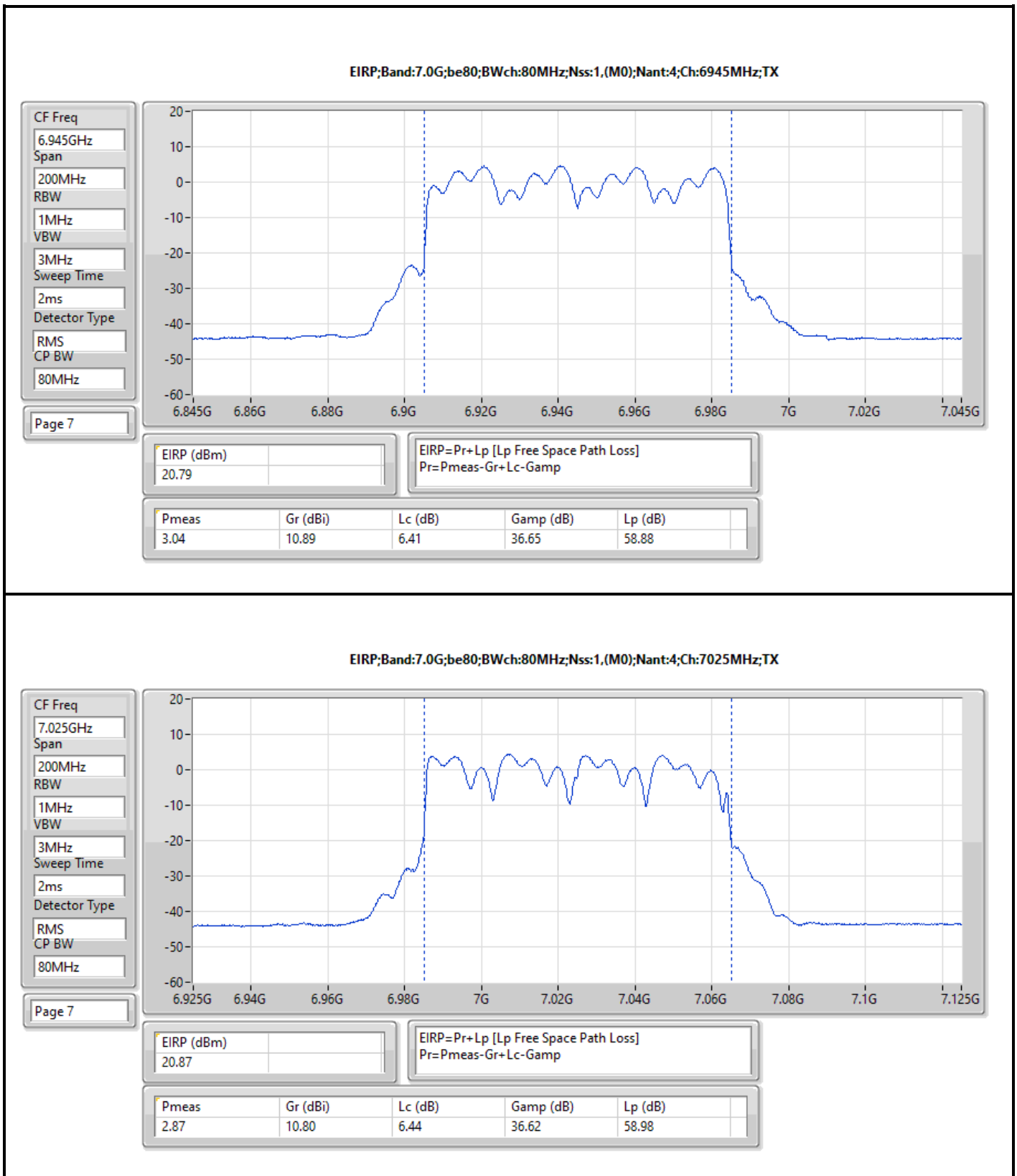


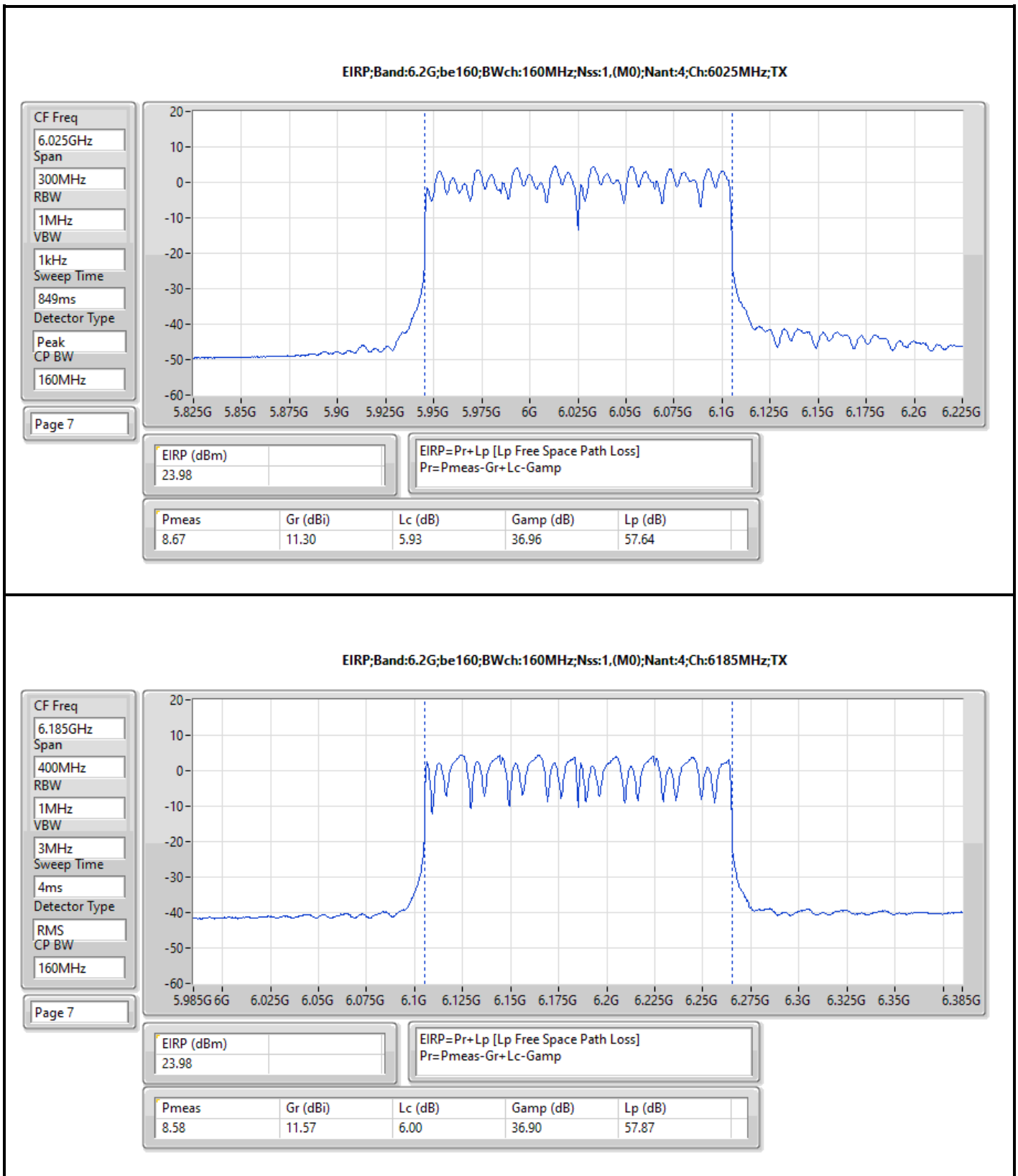


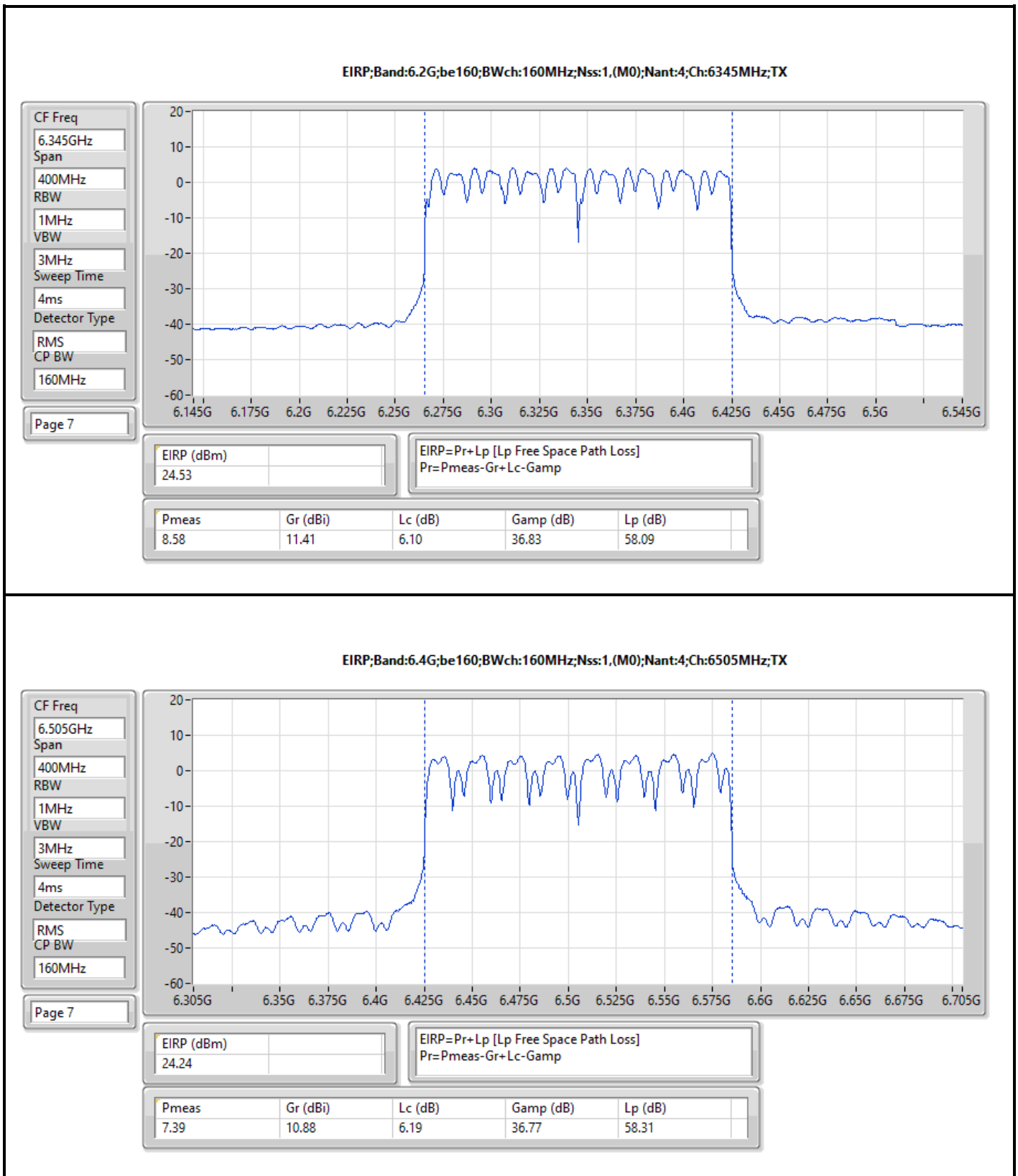




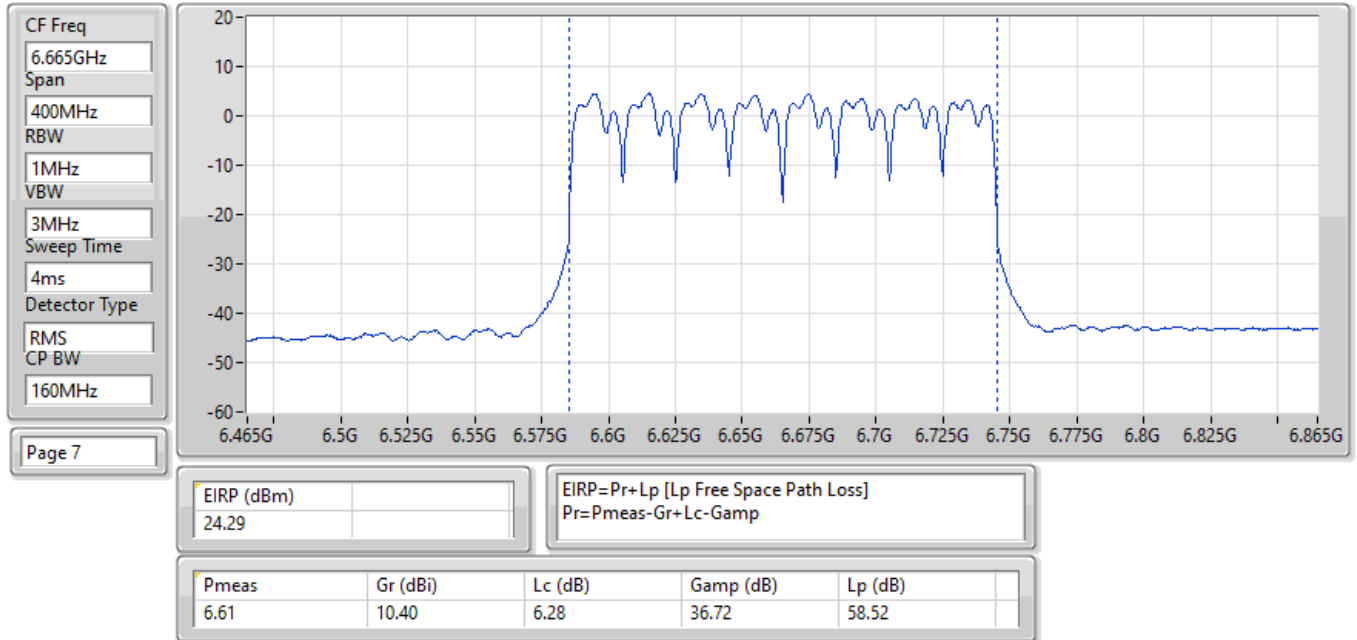




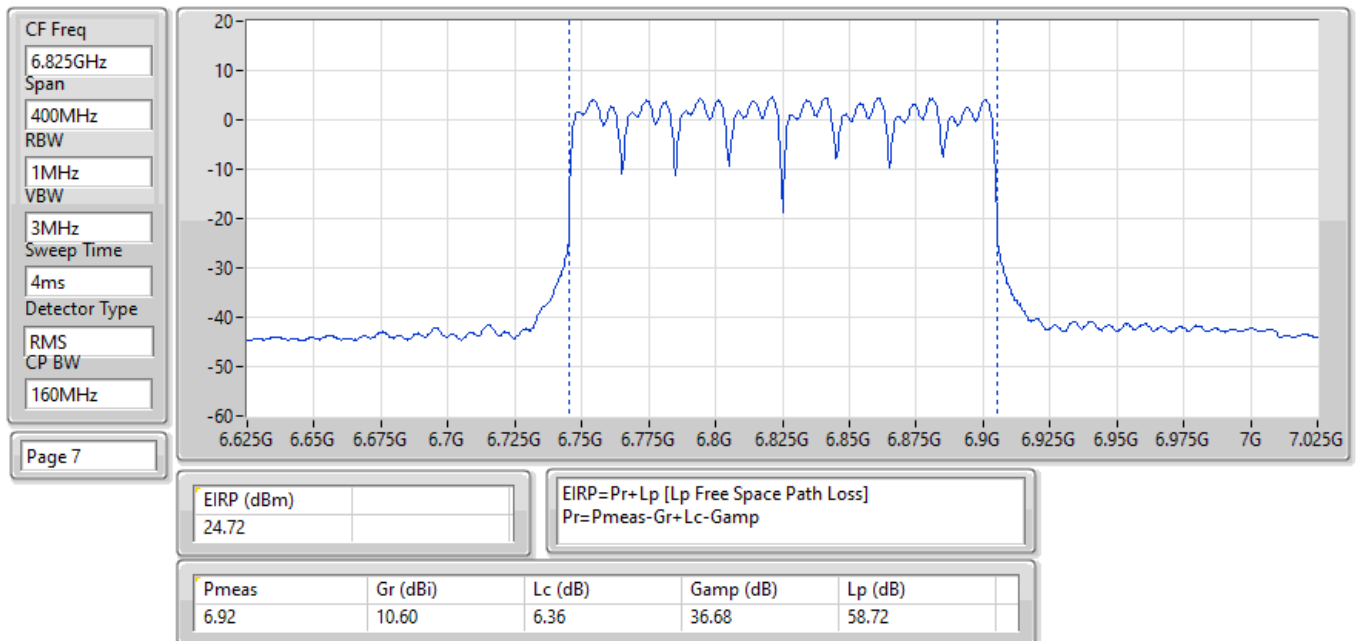




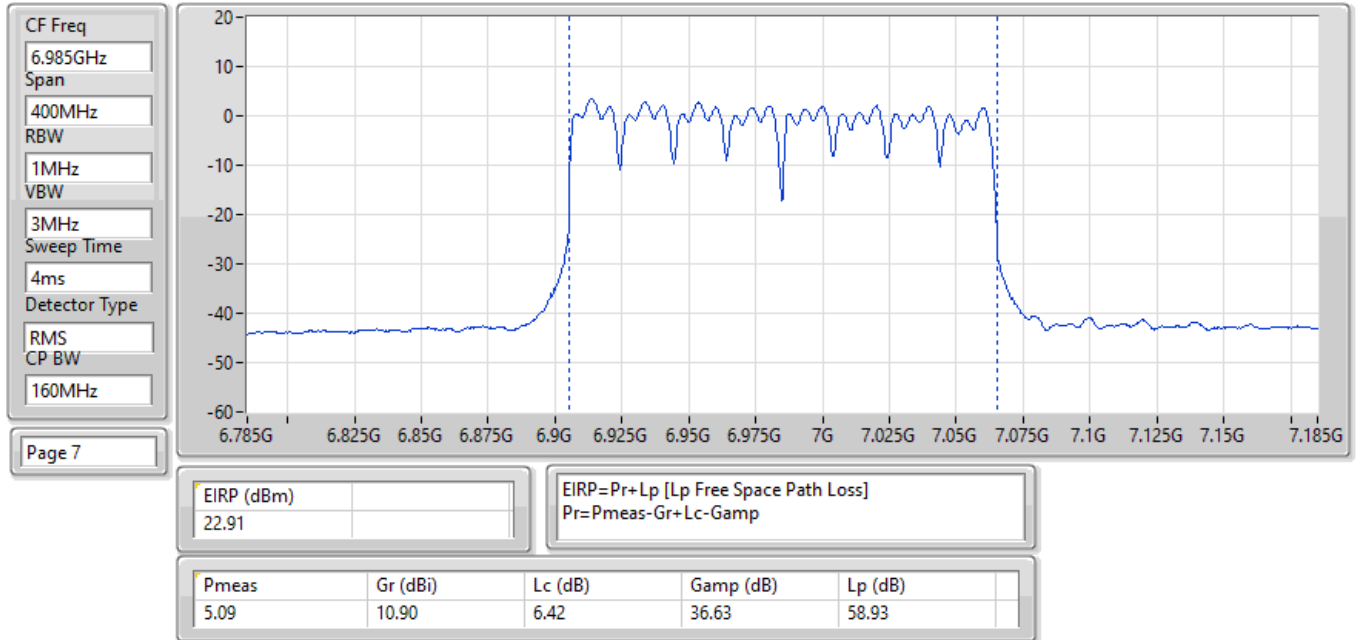
EIRP;Band:6.7G;be160;BWch:160MHz;Nss:1,(M0);Nant:4;Ch:6665MHz;TX



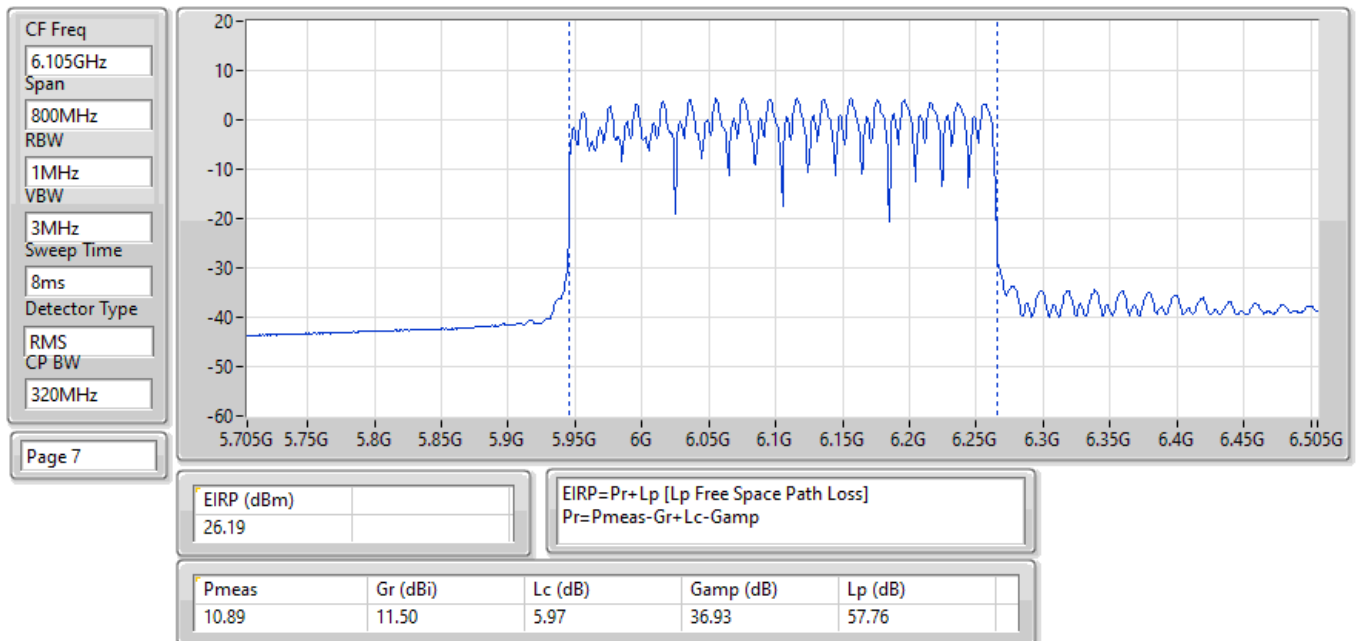
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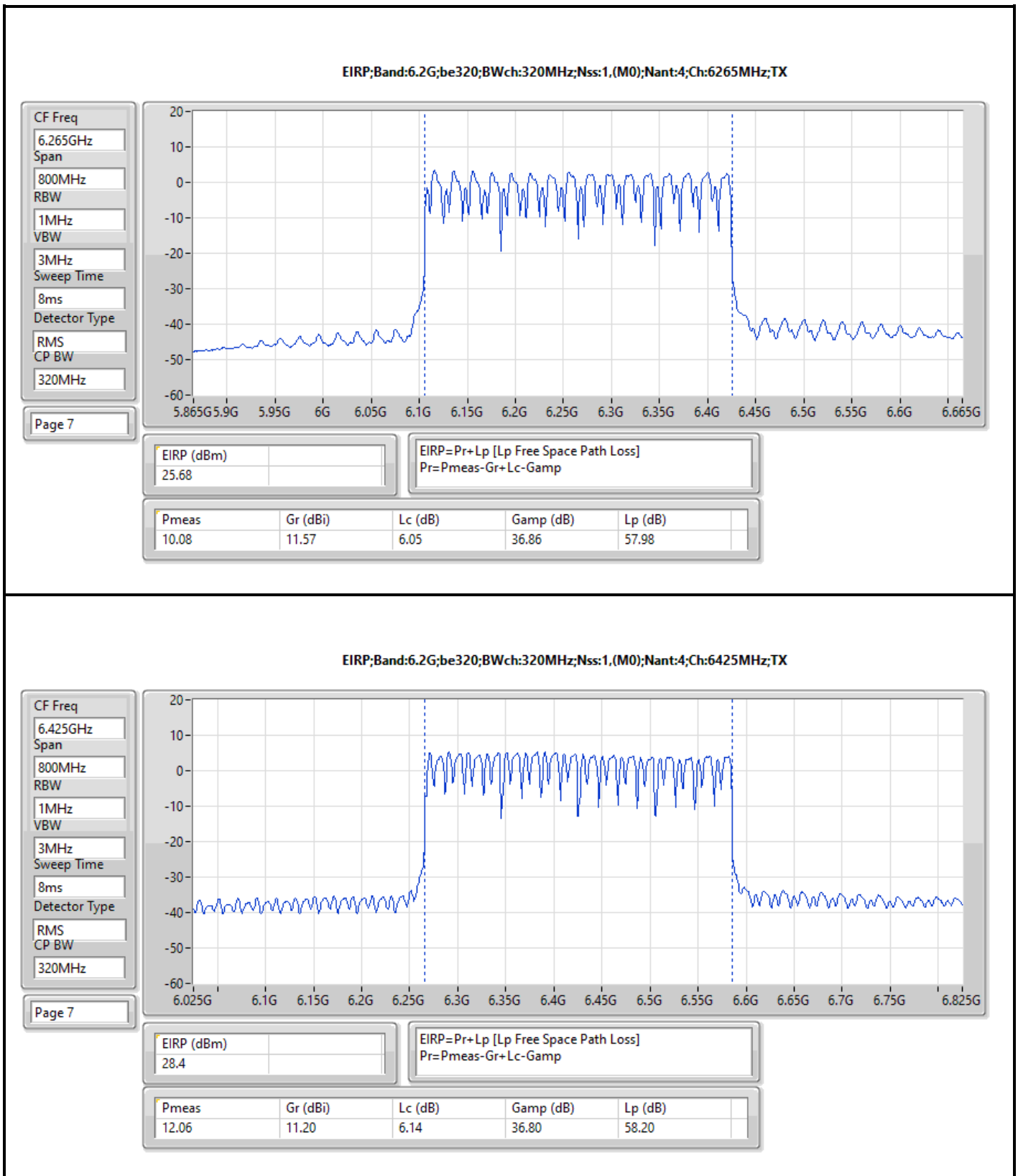


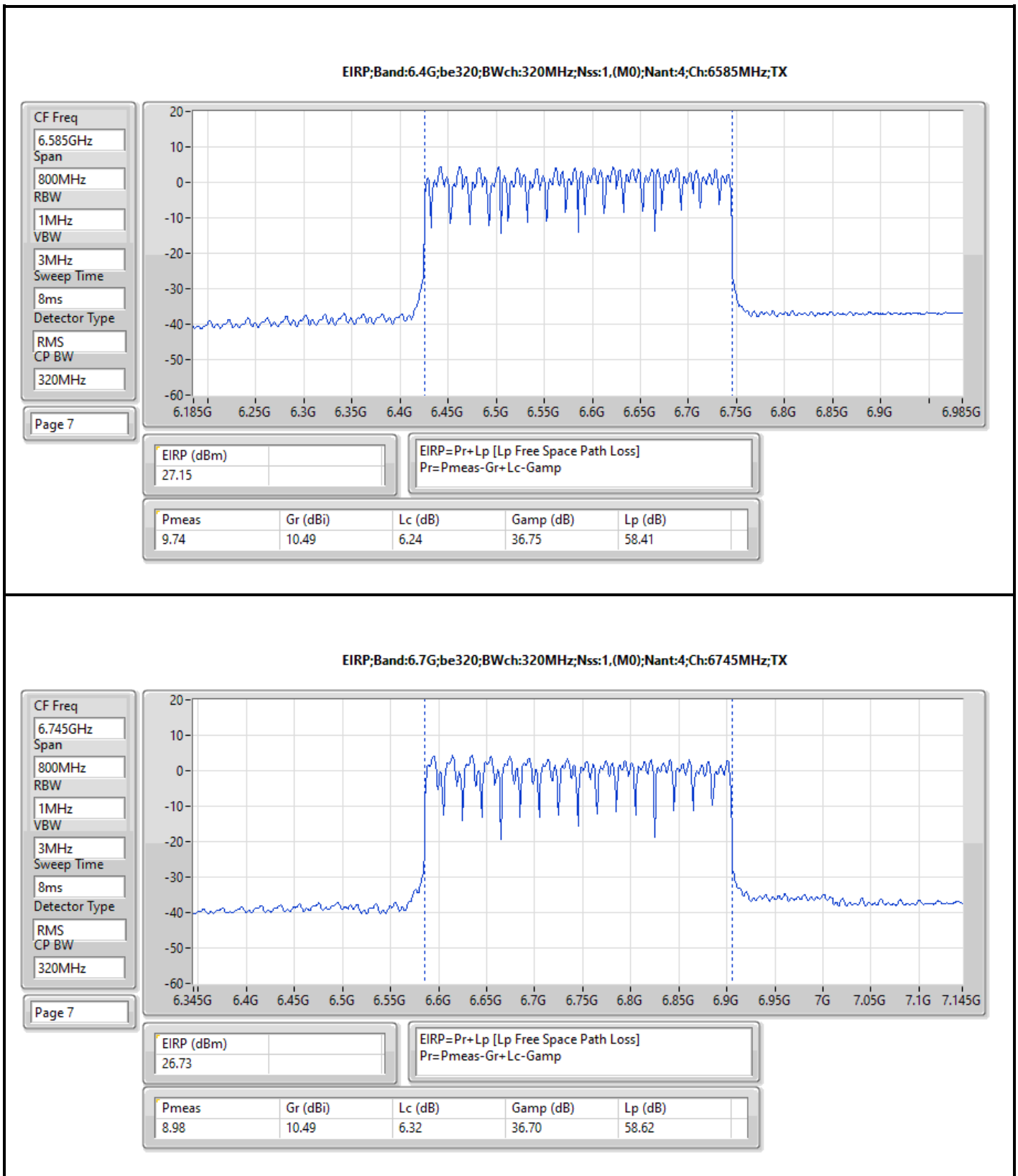
EIRP;Band:7.0G;be160;BWch:160MHz;Nss:1,(M0);Nant:4;Ch:6985MHz;TX

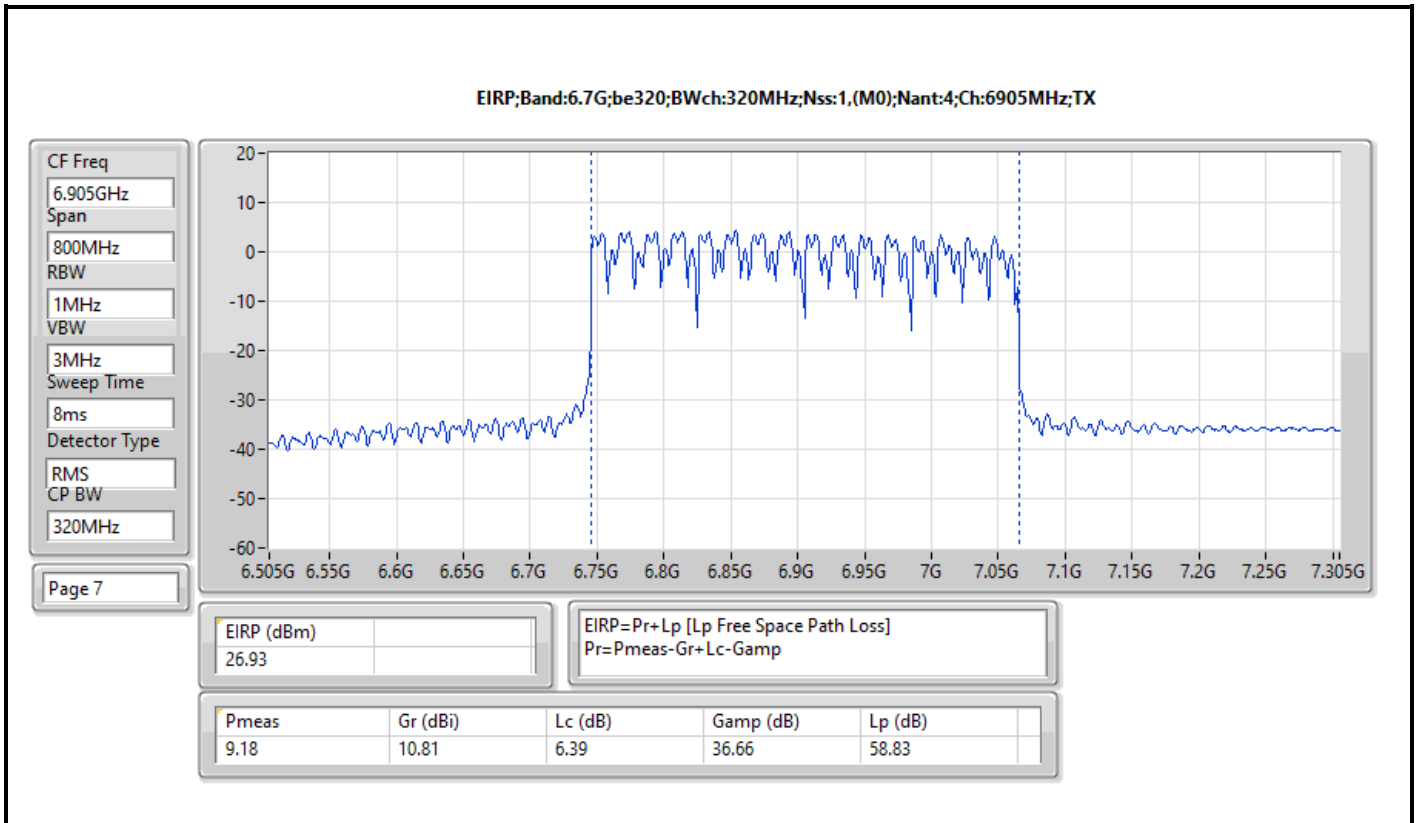


EIRP;Band:6.2G;be320;BWch:320MHz;Nss:1,(M0);Nant:4;Ch:6105MHz;TX









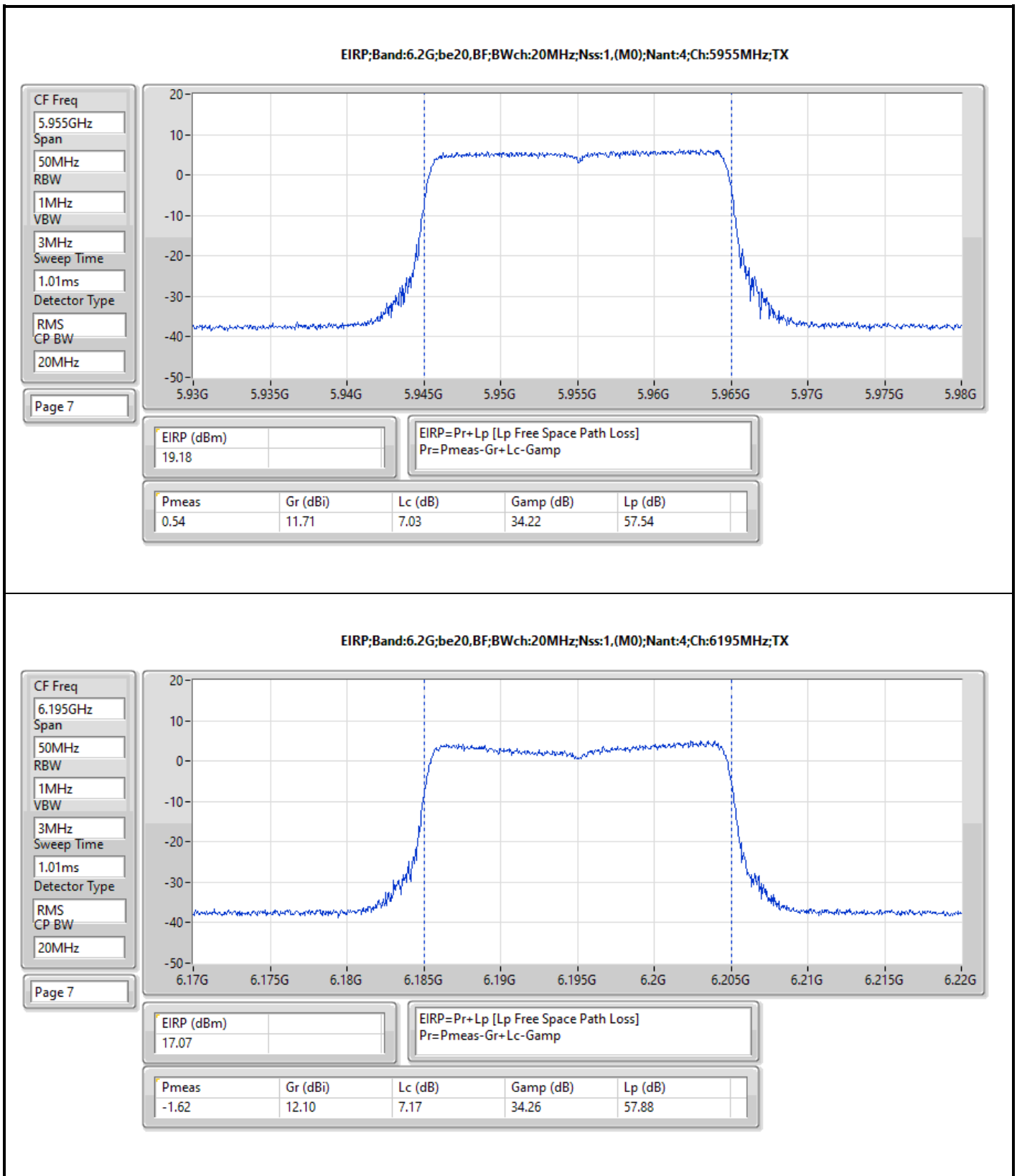
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	13.16	0.02070	19.18	0.08279
802.11be EHT40-BF_Nss1,(MCS0)_4TX	14.59	0.02877	20.61	0.11508
802.11be EHT80-BF_Nss1,(MCS0)_4TX	17.94	0.06223	23.96	0.24889
802.11be EHT160-BF_Nss1,(MCS0)_4TX	22.44	0.17539	28.46	0.70146
802.11be EHT320-BF_Nss1,(MCS0)_4TX	23.27	0.21232	29.29	0.84918
6.425-6.525GHz	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	12.66	0.01845	18.68	0.07379
802.11be EHT40-BF_Nss1,(MCS0)_4TX	15.45	0.03508	21.47	0.14028
802.11be EHT80-BF_Nss1,(MCS0)_4TX	18.12	0.06486	24.14	0.25942
802.11be EHT160-BF_Nss1,(MCS0)_4TX	20.20	0.10471	26.22	0.41879
802.11be EHT320-BF_Nss1,(MCS0)_4TX	22.14	0.16368	28.16	0.65464
6.525-6.875GHz	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	11.14	0.01300	17.16	0.05200
802.11be EHT40-BF_Nss1,(MCS0)_4TX	14.45	0.02786	20.47	0.11143
802.11be EHT80-BF_Nss1,(MCS0)_4TX	18.38	0.06887	24.40	0.27542
802.11be EHT160-BF_Nss1,(MCS0)_4TX	20.60	0.11482	26.62	0.45920
802.11be EHT320-BF_Nss1,(MCS0)_4TX	22.61	0.18239	28.63	0.72946
6.875-7.125GHz	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	11.67	0.01469	17.69	0.05875
802.11be EHT40-BF_Nss1,(MCS0)_4TX	14.25	0.02661	20.27	0.10641
802.11be EHT80-BF_Nss1,(MCS0)_4TX	17.60	0.05754	23.62	0.23014
802.11be EHT160-BF_Nss1,(MCS0)_4TX	20.31	0.10740	26.33	0.42954

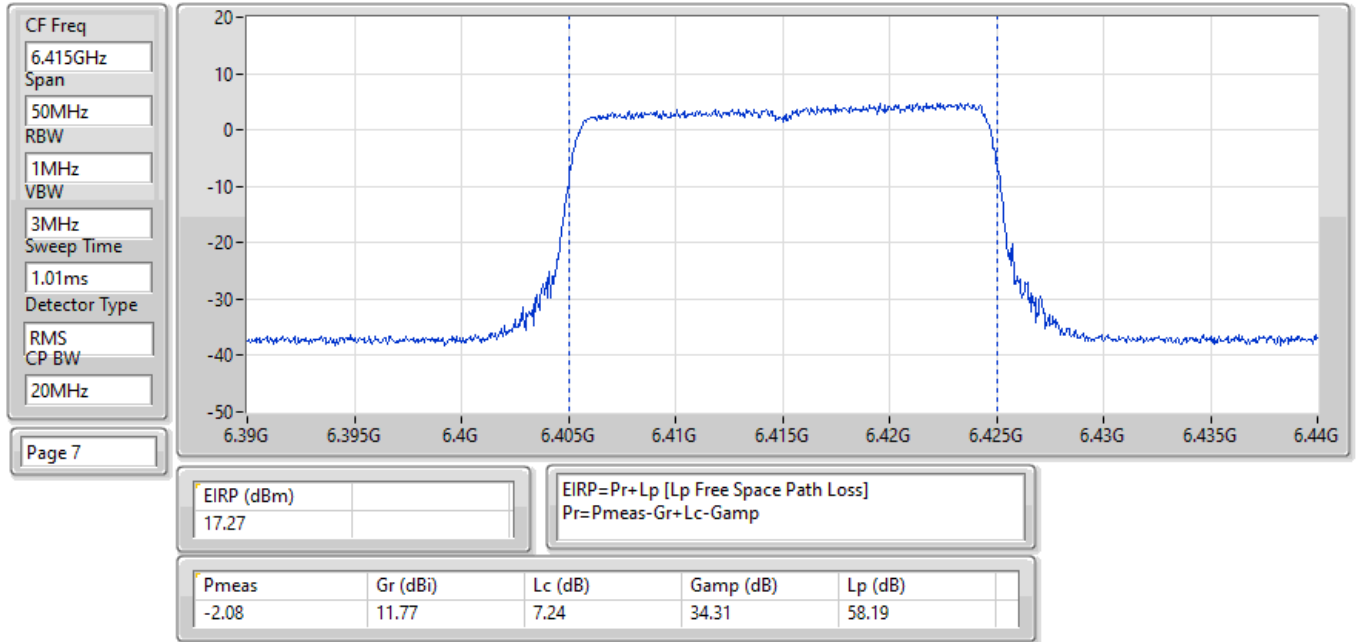
Result

Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-
5955MHz	Pass	19.18	30.00
6195MHz	Pass	17.07	30.00
6415MHz	Pass	17.27	30.00
6435MHz	Pass	17.53	30.00
6475MHz	Pass	18.68	30.00
6515MHz	Pass	16.76	30.00
6535MHz	Pass	15.69	30.00
6695MHz	Pass	17.16	30.00
6875MHz	Pass	17.07	30.00
6895MHz	Pass	16.84	30.00
6995MHz	Pass	17.69	30.00
7095MHz	Pass	17.45	30.00
7115MHz	Pass	14.58	30.00
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-
5965MHz	Pass	20.57	30.00
6205MHz	Pass	20.61	30.00
6405MHz	Pass	20.48	30.00
6445MHz	Pass	21.47	30.00
6485MHz	Pass	20.57	30.00
6525MHz	Pass	20.61	30.00
6565MHz	Pass	20.47	30.00
6685MHz	Pass	20.29	30.00
6885MHz	Pass	20.13	30.00
6925MHz	Pass	20.27	30.00
7005MHz	Pass	17.51	30.00
7085MHz	Pass	17.77	30.00
802.11be EHT80-BF_Nss1,(MCS0)_4TX	-	-	-
5985MHz	Pass	23.14	30.00
6225MHz	Pass	23.96	30.00
6385MHz	Pass	23.95	30.00
6465MHz	Pass	24.14	30.00
6545MHz	Pass	22.86	30.00
6625MHz	Pass	24.40	30.00
6705MHz	Pass	23.05	30.00
6785MHz	Pass	23.42	30.00
6865MHz	Pass	24.18	30.00
6945MHz	Pass	23.62	30.00
7025MHz	Pass	22.65	30.00
802.11be EHT160-BF_Nss1,(MCS0)_4TX	-	-	-
6025MHz	Pass	27.25	30.00
6185MHz	Pass	28.46	30.00
6345MHz	Pass	26.66	30.00
6505MHz	Pass	26.22	30.00
6665MHz	Pass	26.01	30.00
6825MHz	Pass	26.62	30.00
6985MHz	Pass	26.33	30.00
802.11be EHT320-BF_Nss1,(MCS0)_4TX	-	-	-
6105MHz	Pass	29.17	30.00
6265MHz	Pass	29.29	30.00
6425MHz	Pass	29.00	30.00
6585MHz	Pass	28.16	30.00
6745MHz	Pass	28.63	30.00
6905MHz	Pass	28.50	30.00

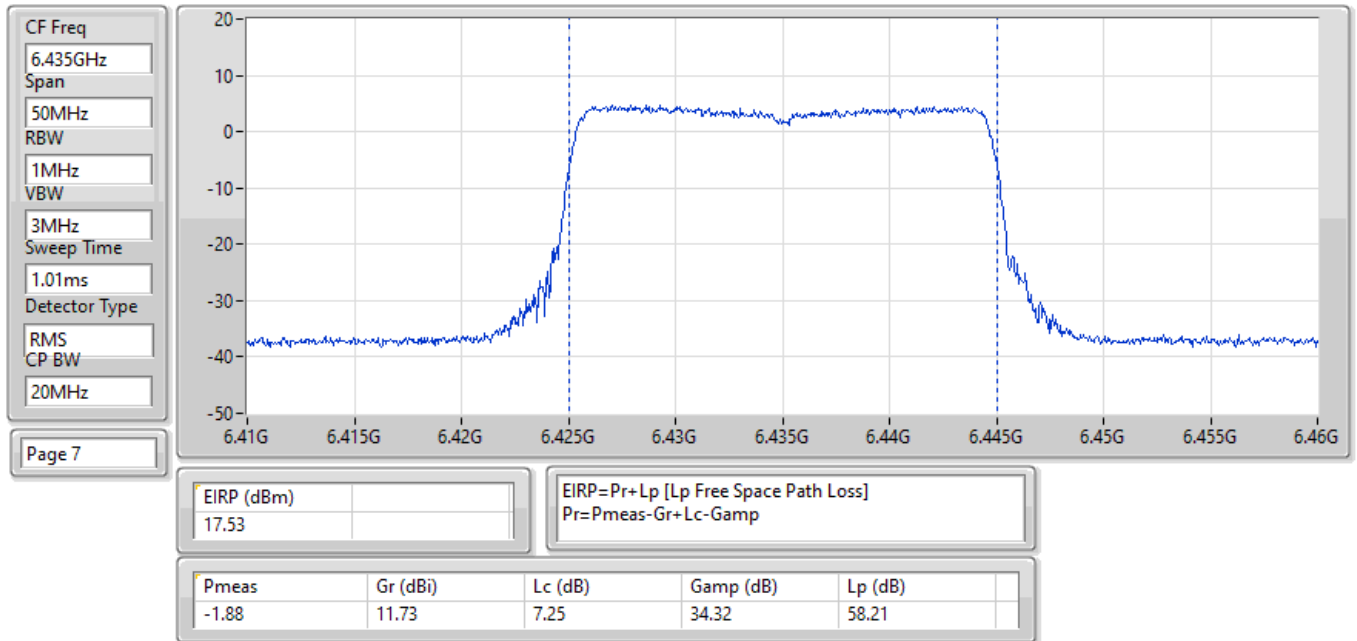
DG = Directional Gain; Port X = Port X output power

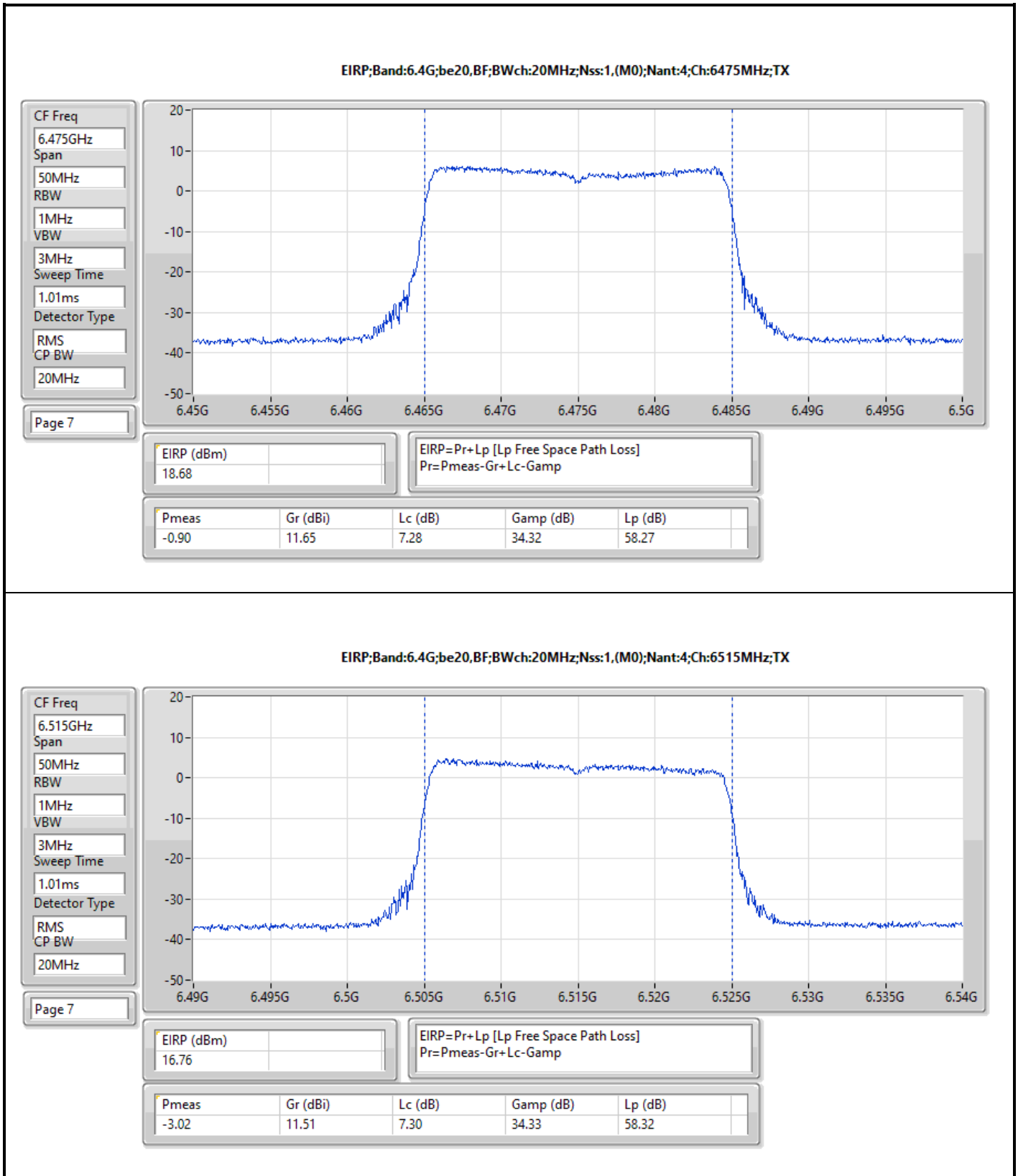


EIRP;Band:6.2G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:6415MHz;TX

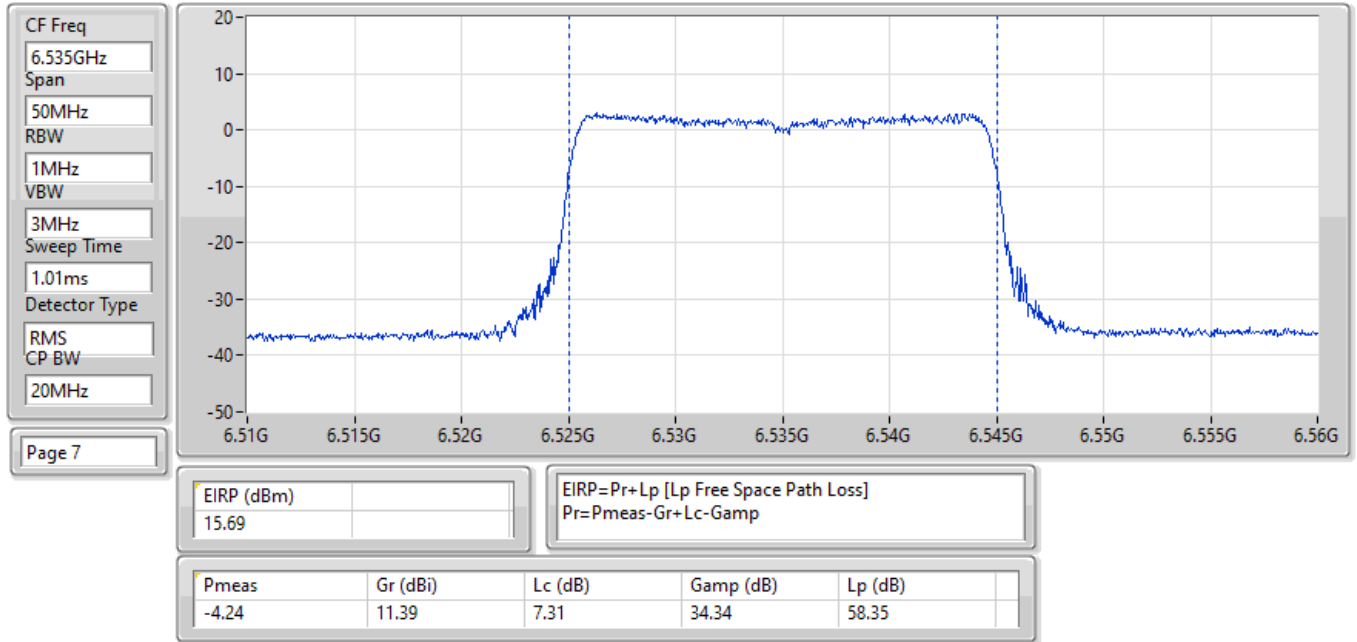


EIRP;Band:6.4G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:6435MHz;TX

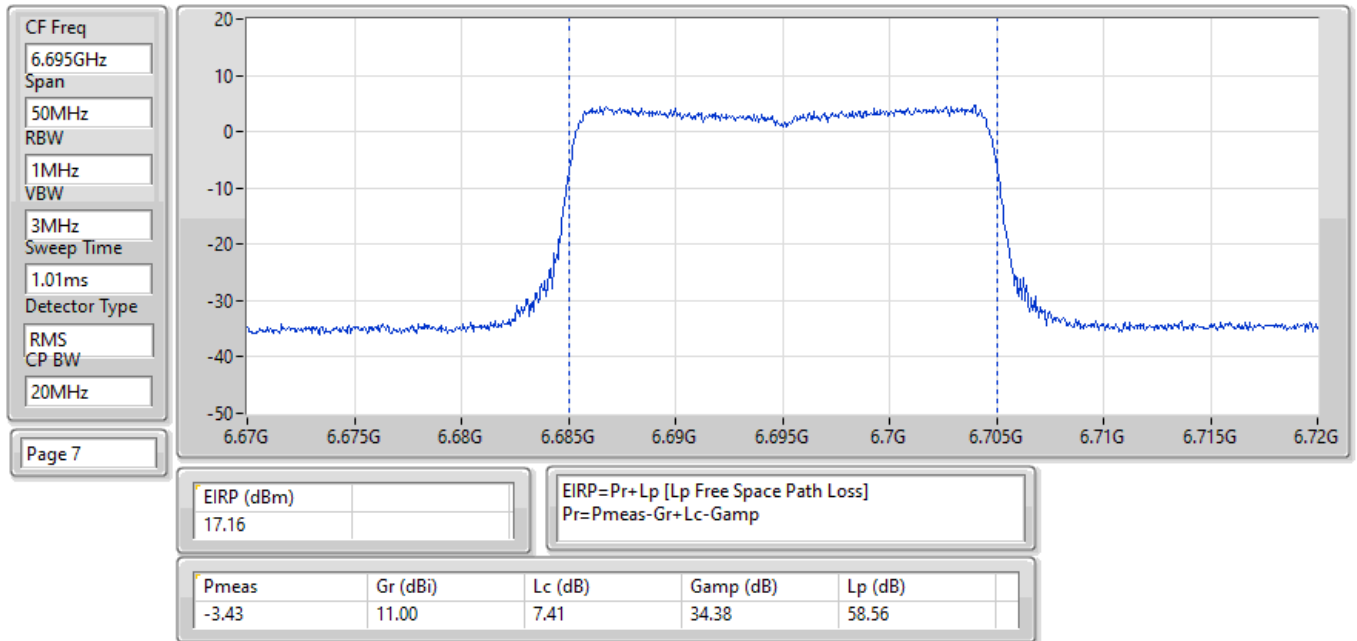


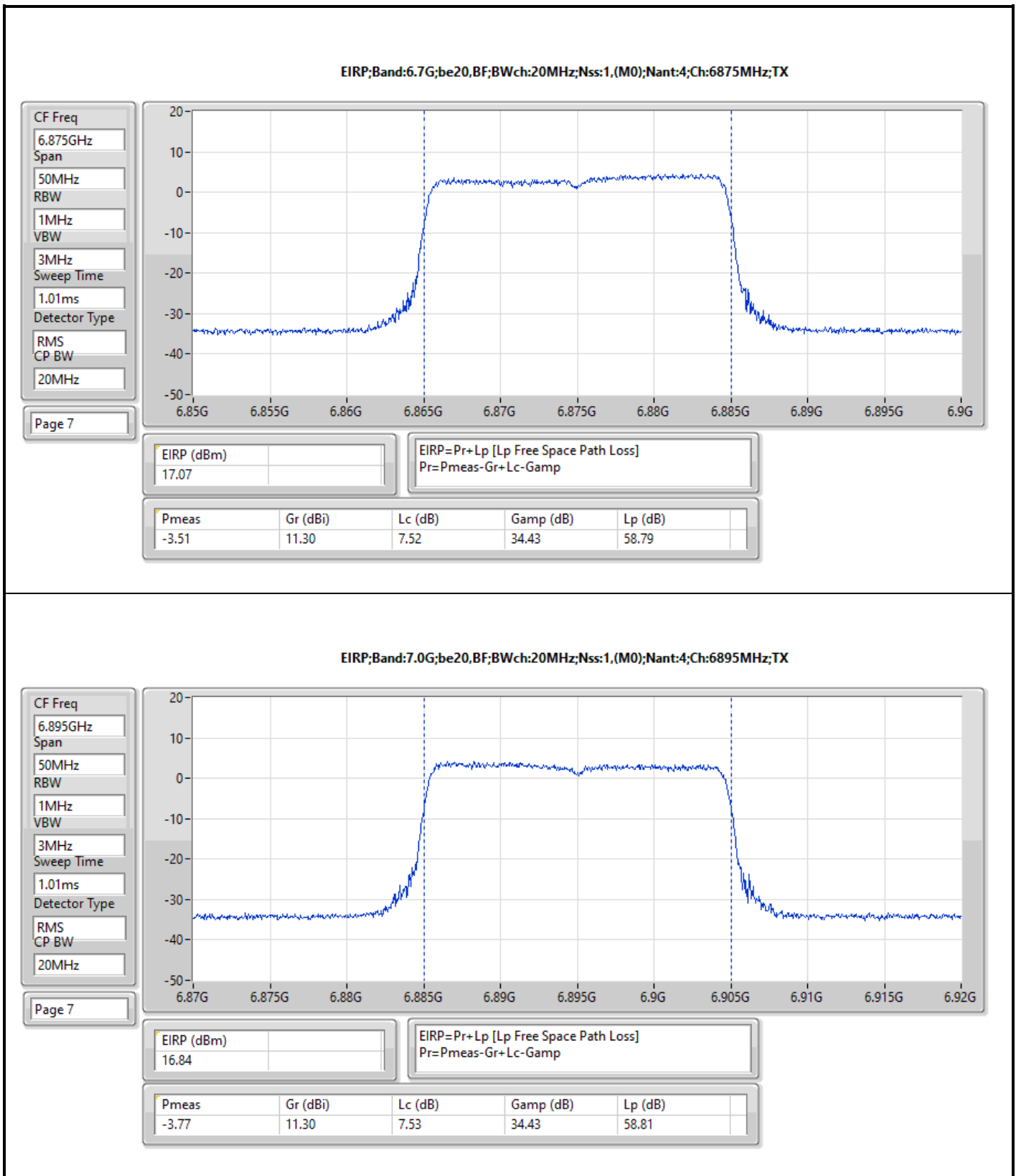


EIRP;Band:6.7G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:6535MHz;TX

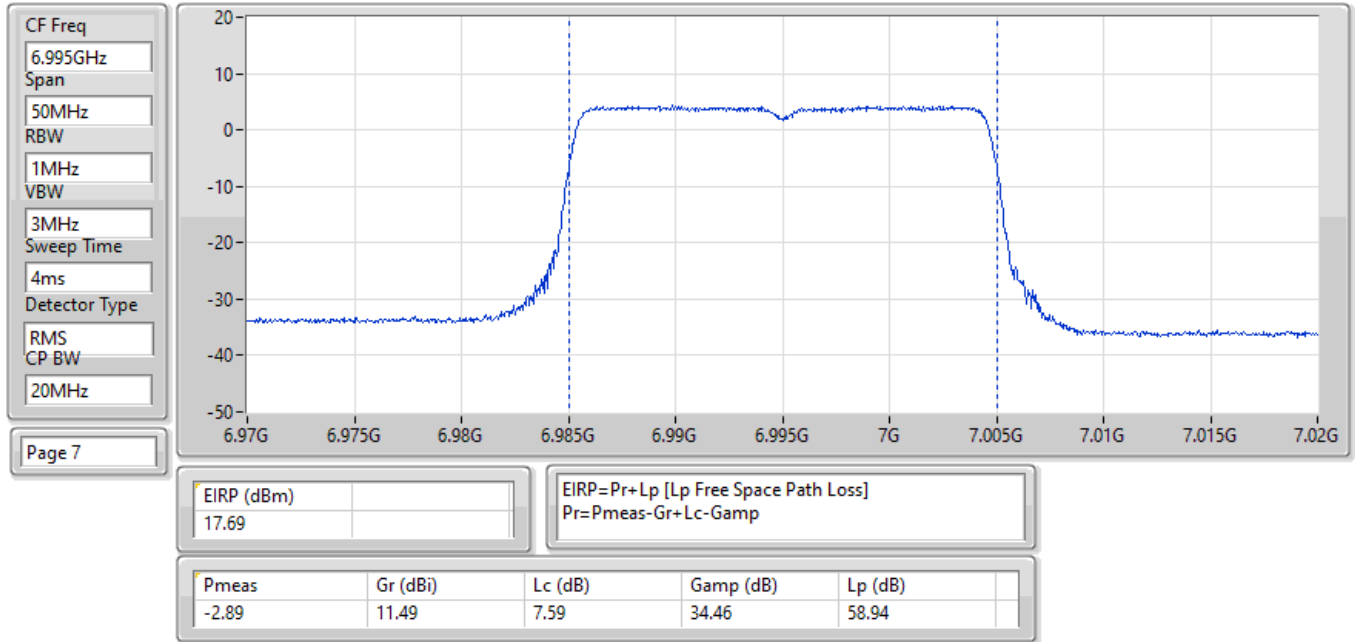


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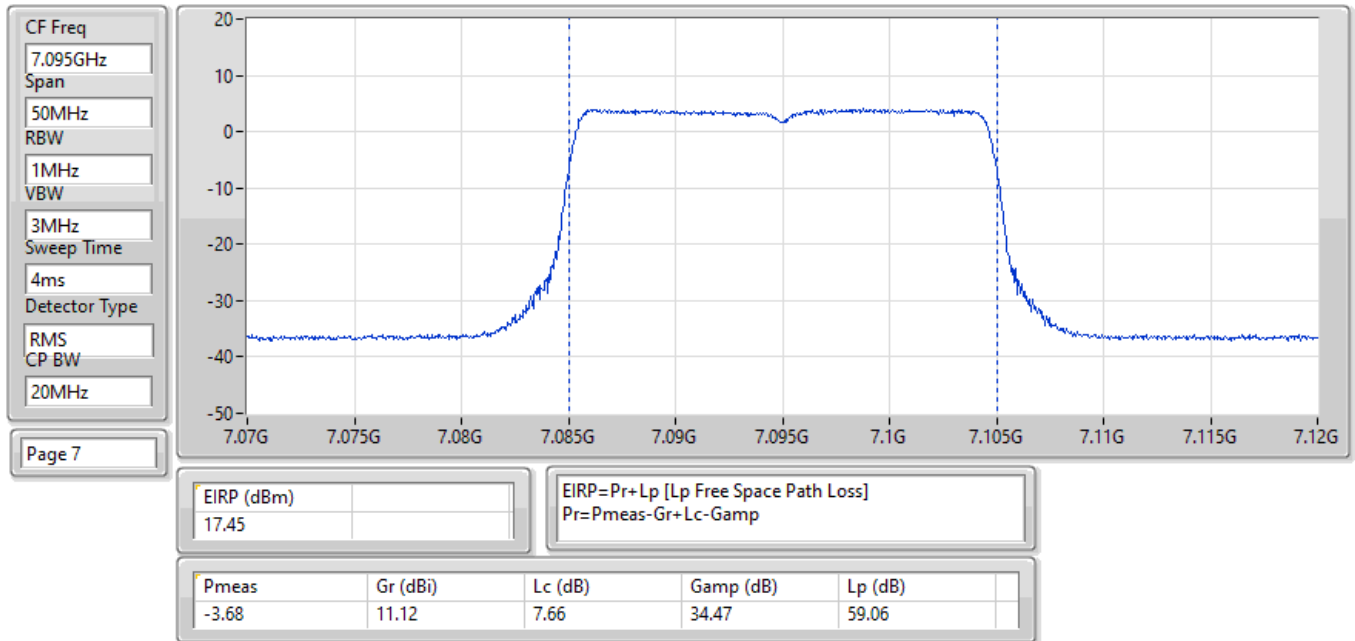




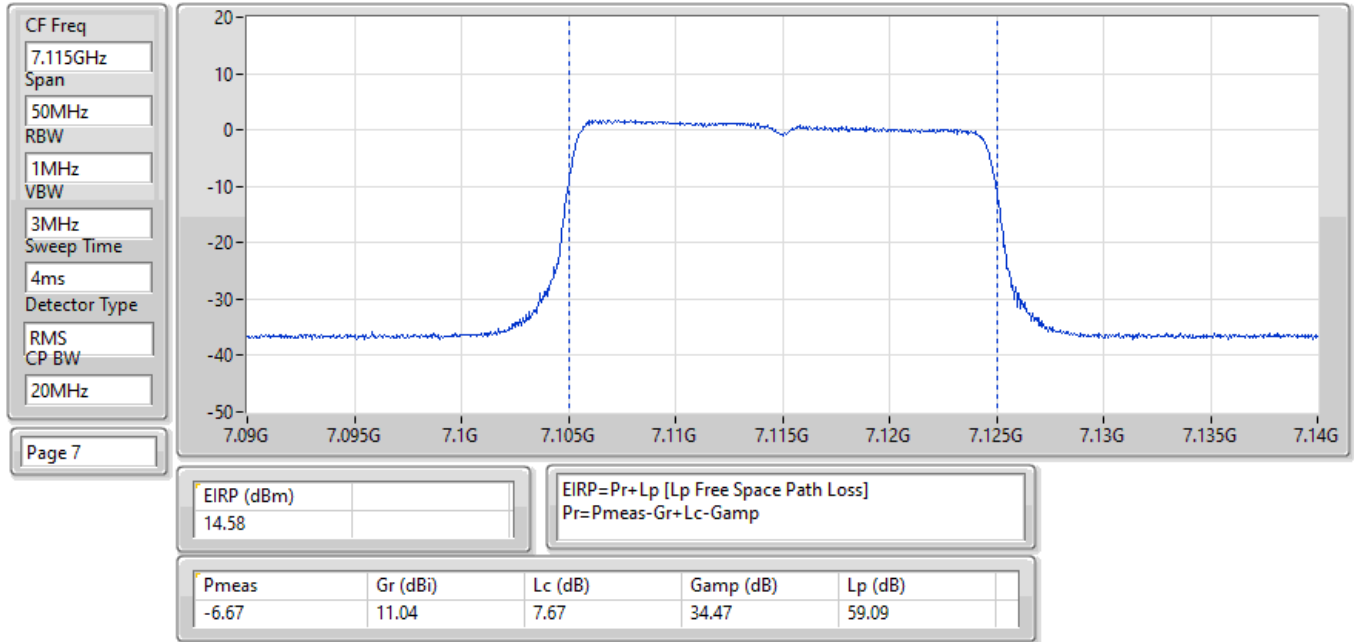
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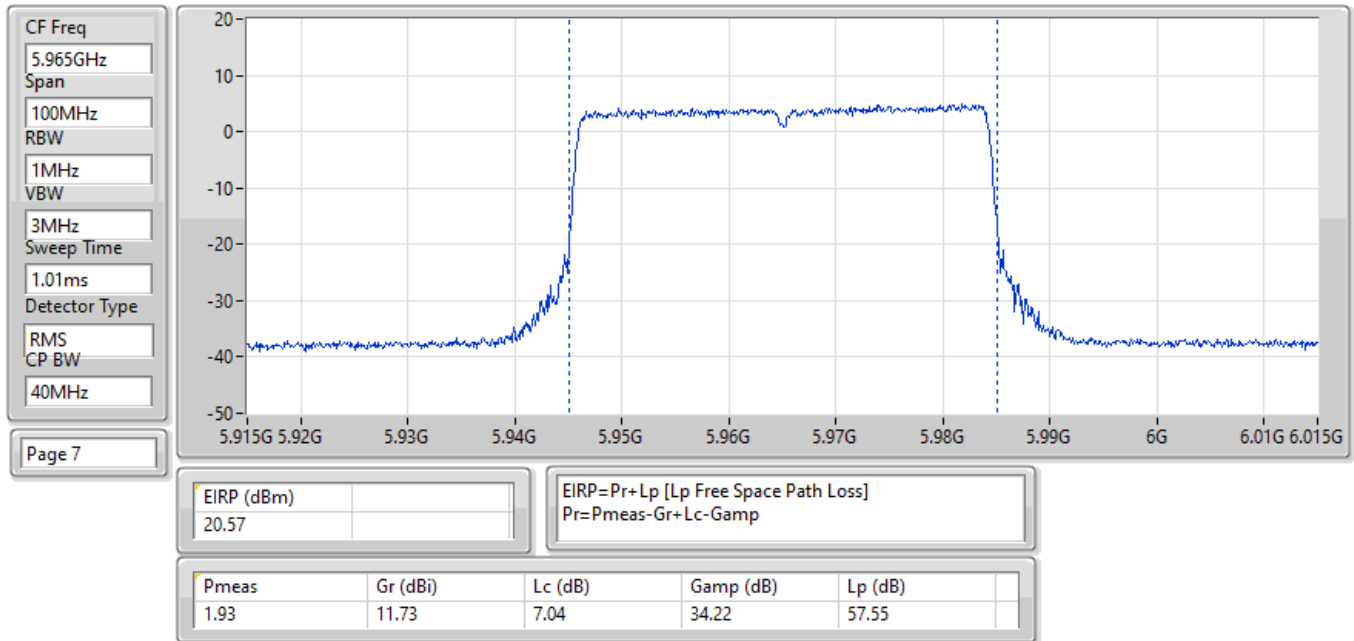
EIRP;Band:7.0G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:7095MHz;TX

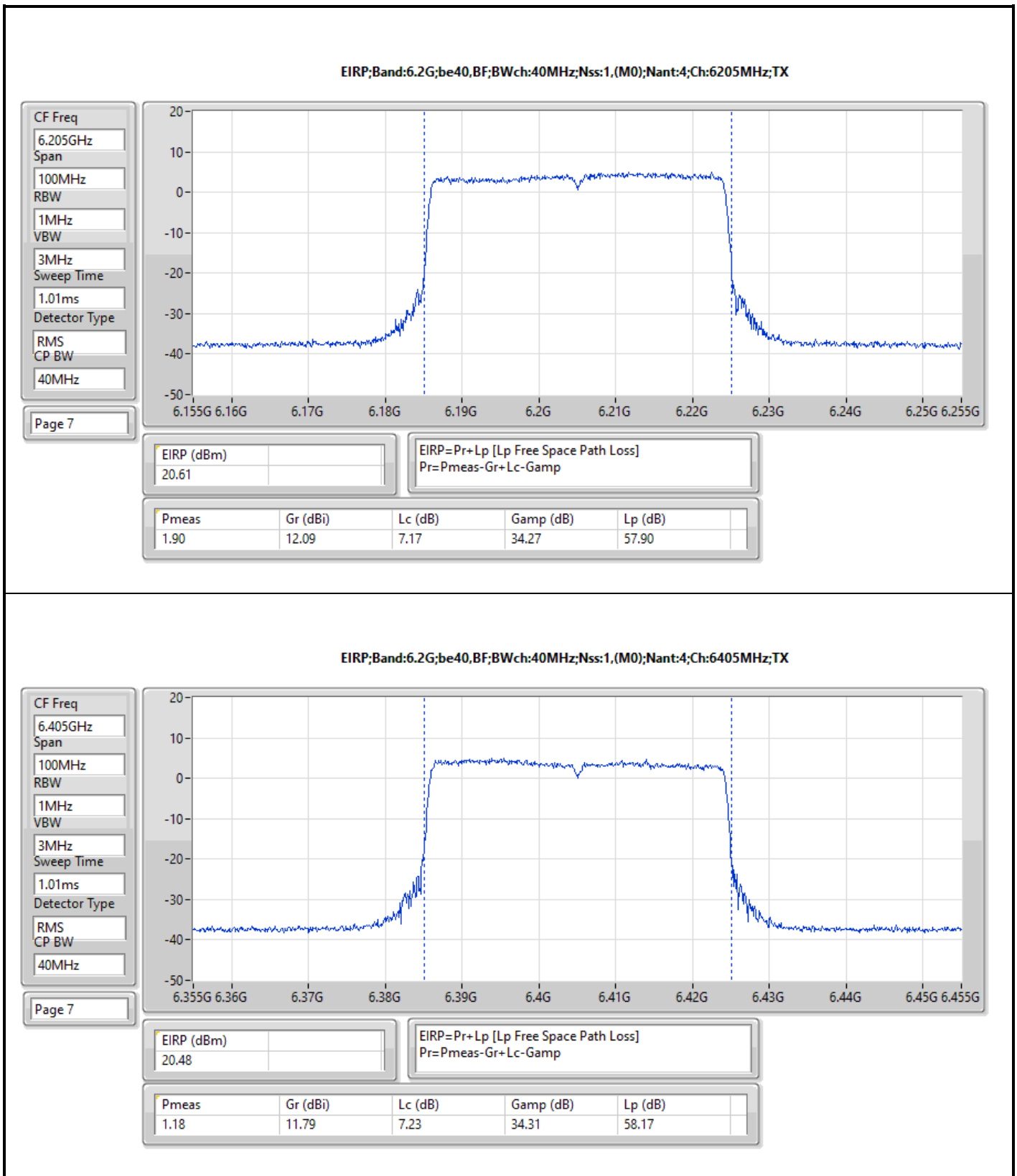


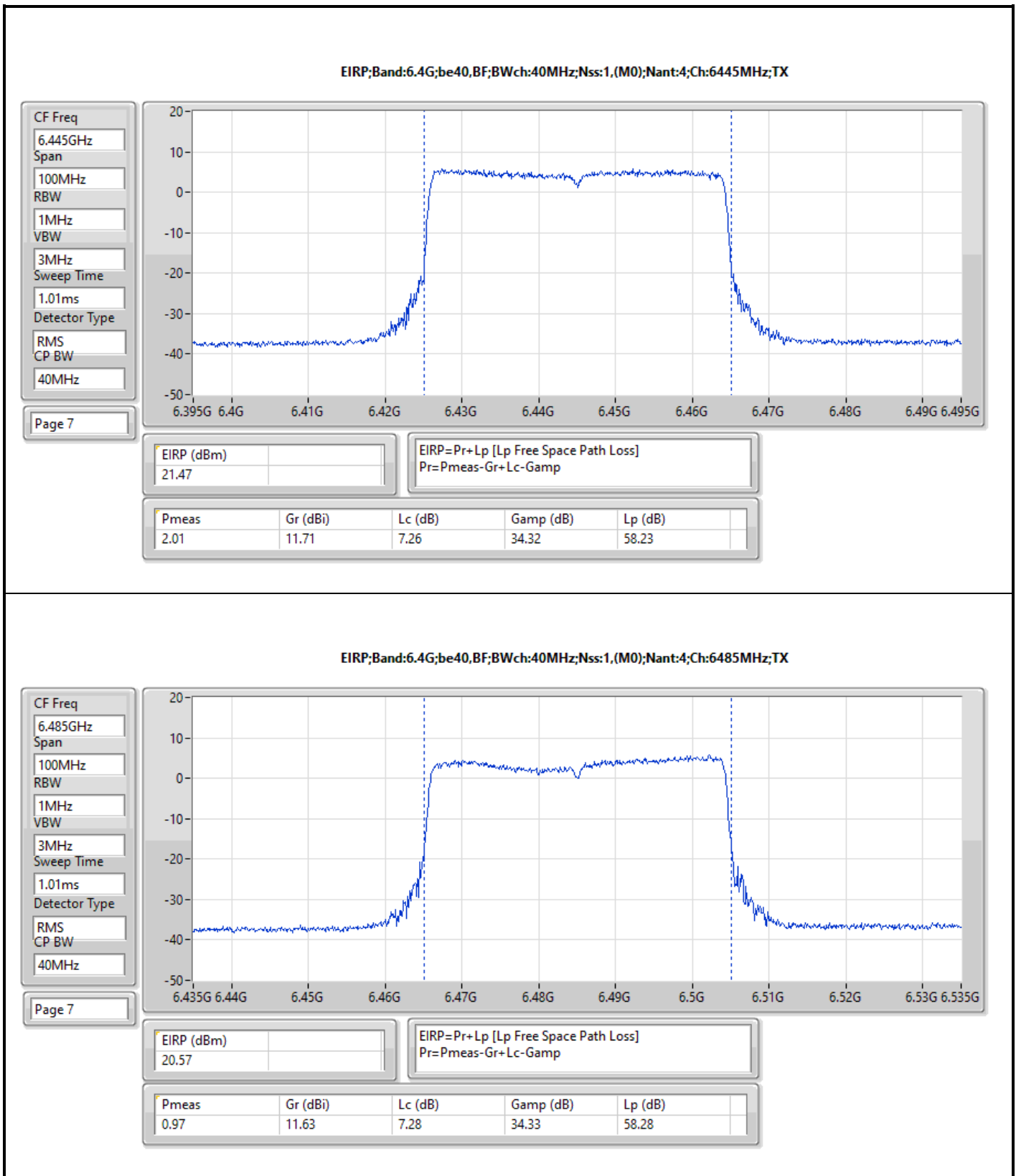
EIRP;Band:7.0G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:7115MHz;TX



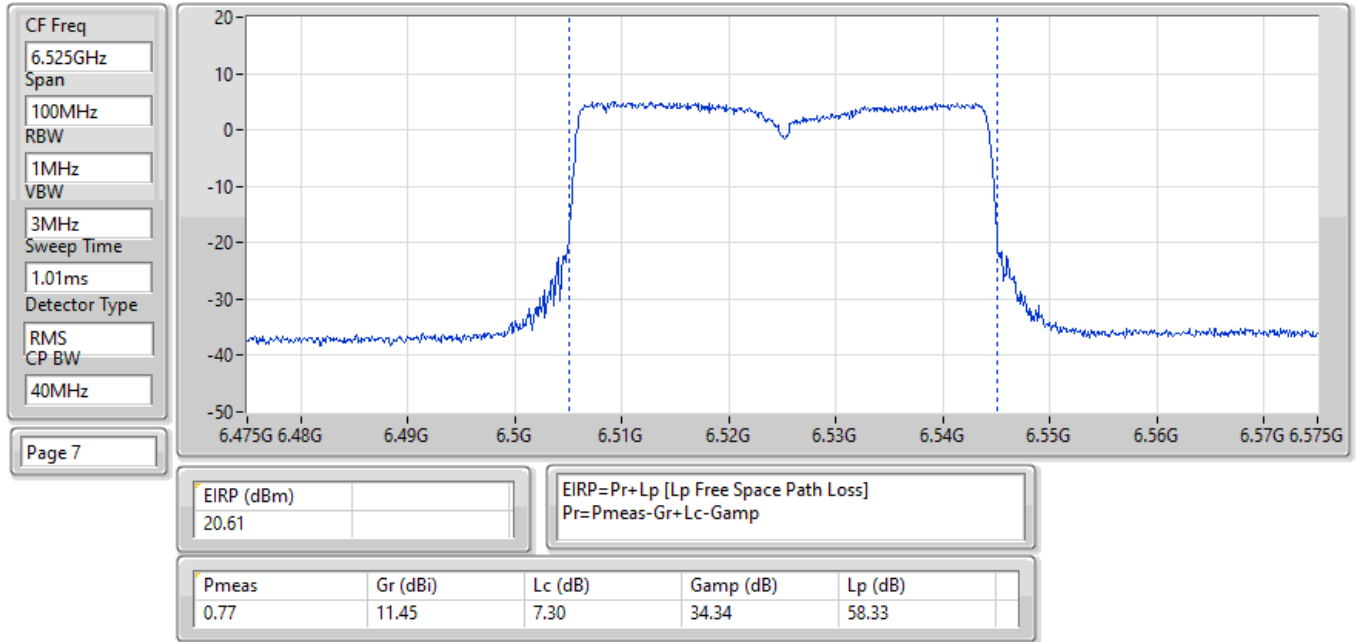
EIRP;Band:6.2G;be40,BF;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5965MHz;TX



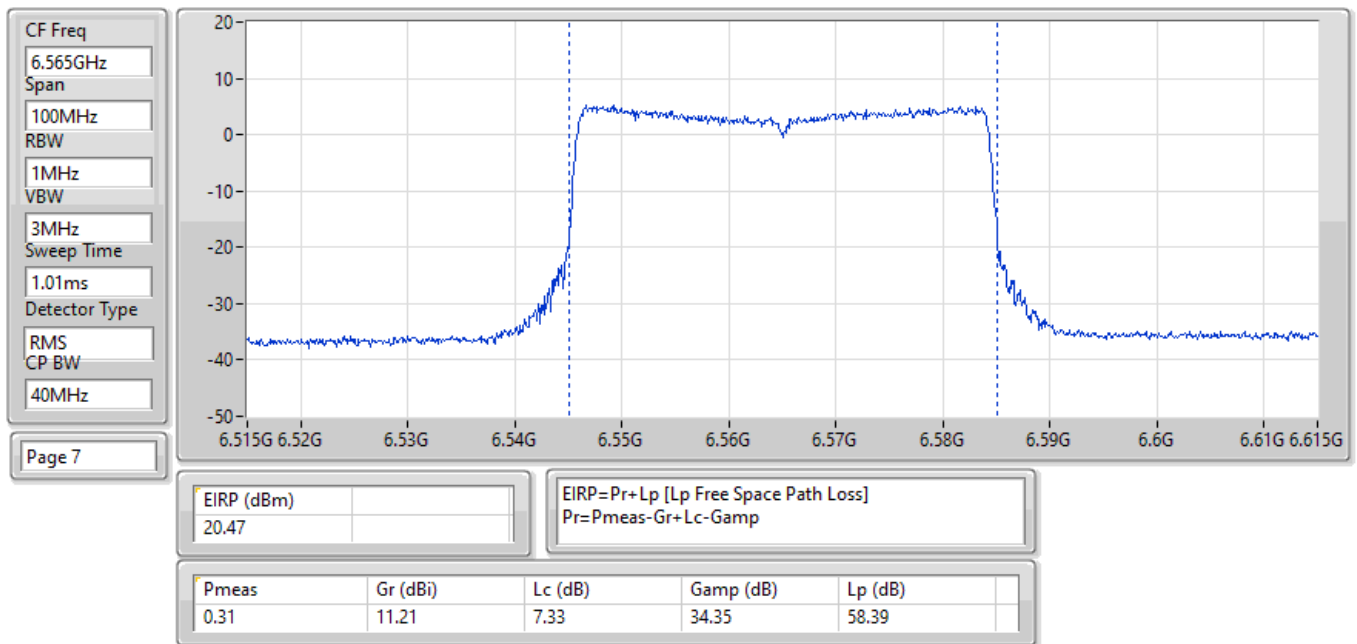




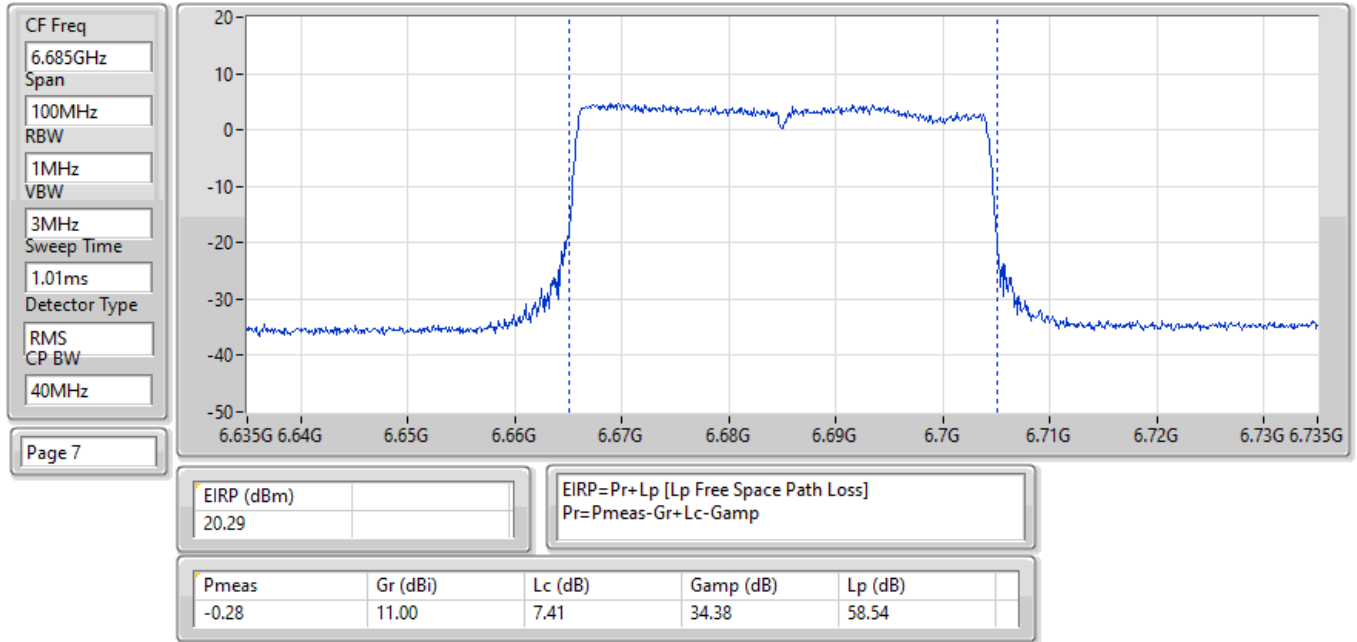
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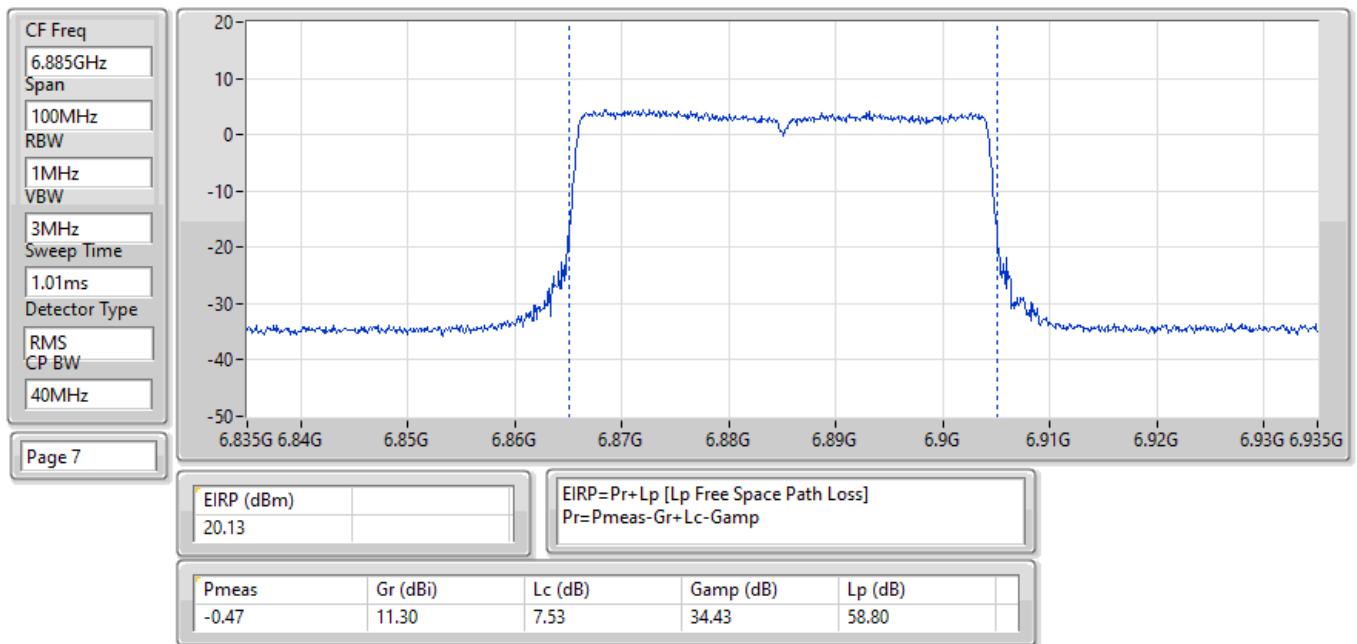
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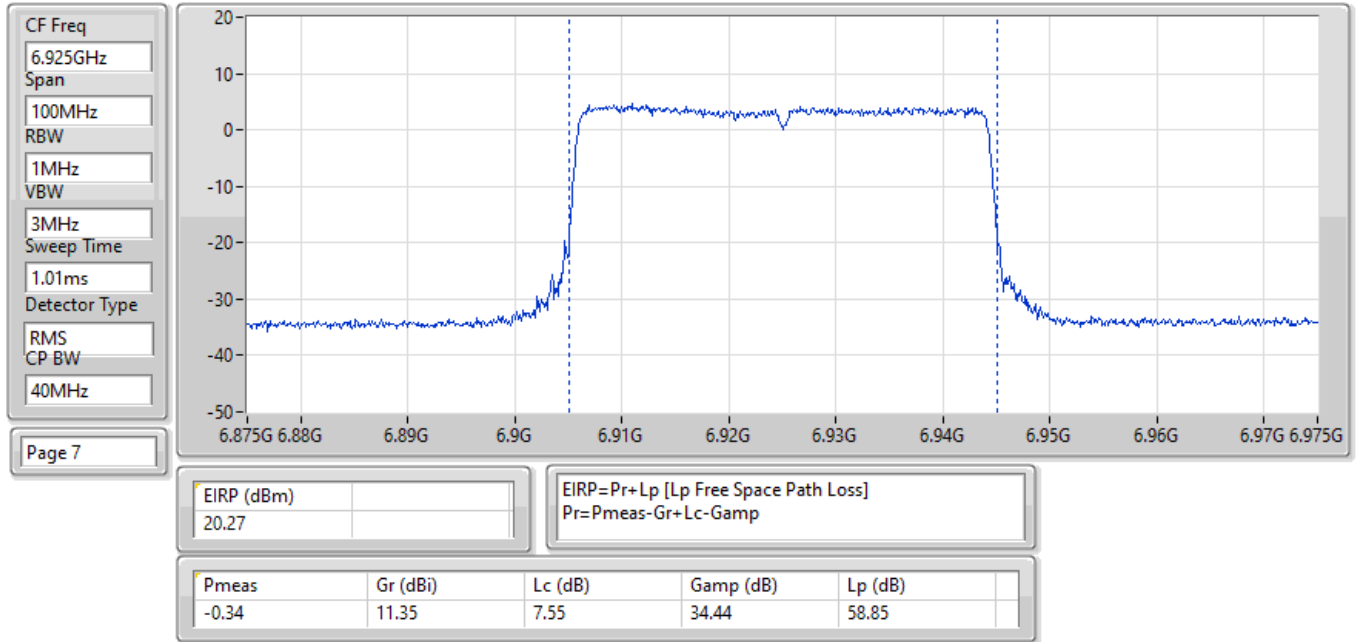
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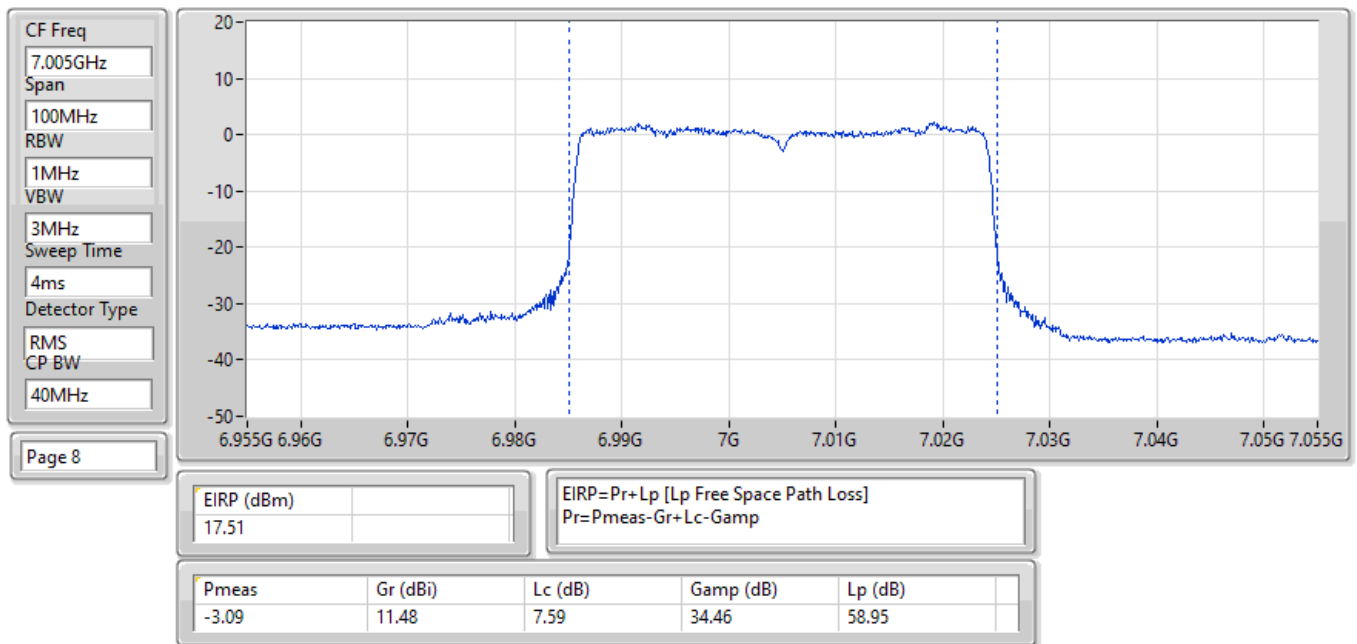
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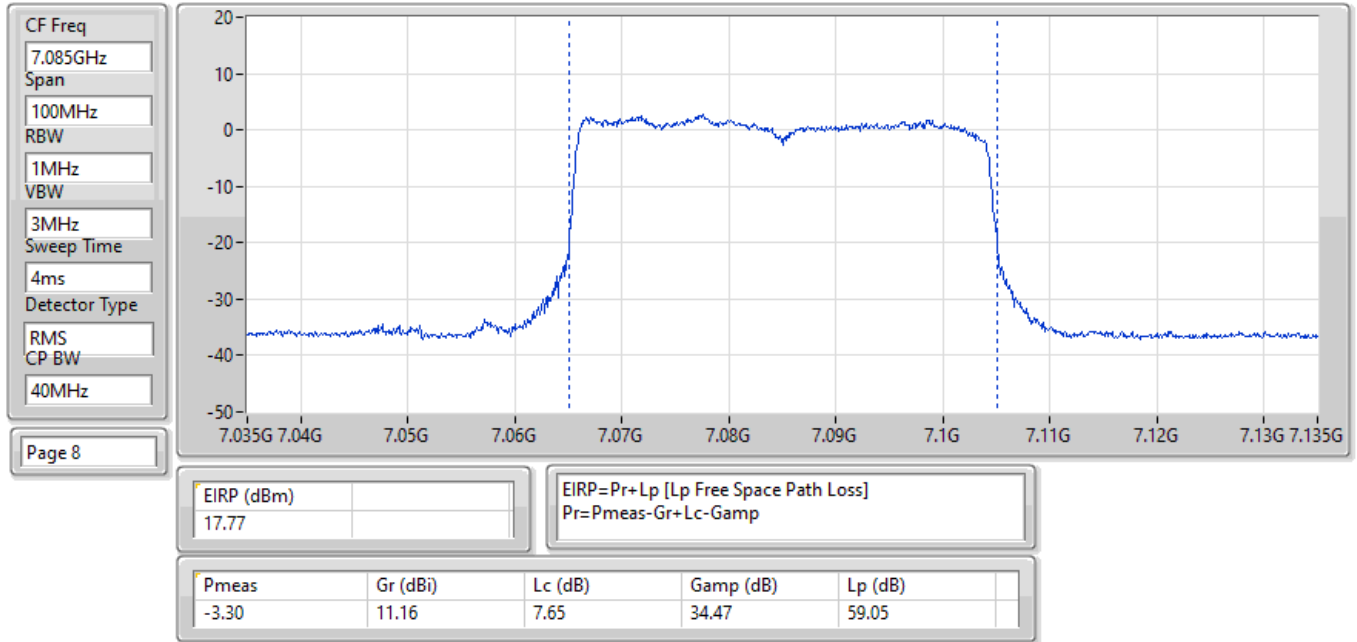
EIRP;Band:7.0G;be40,BF;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:6925MHz;TX



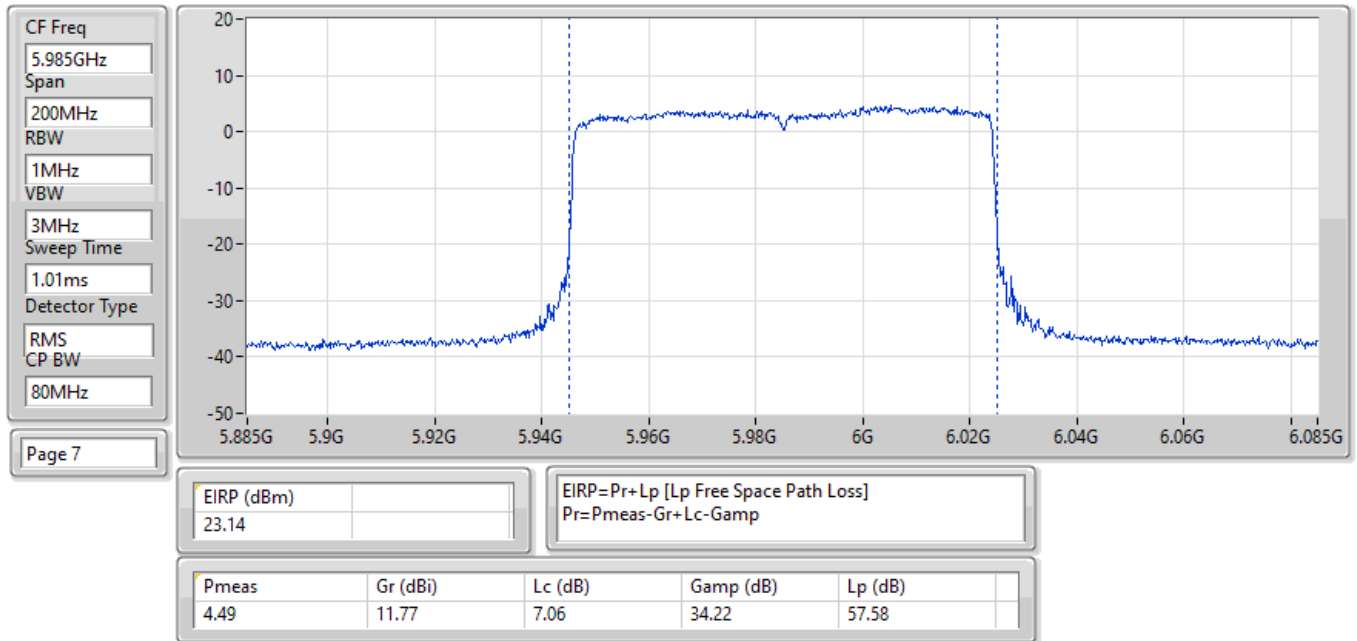
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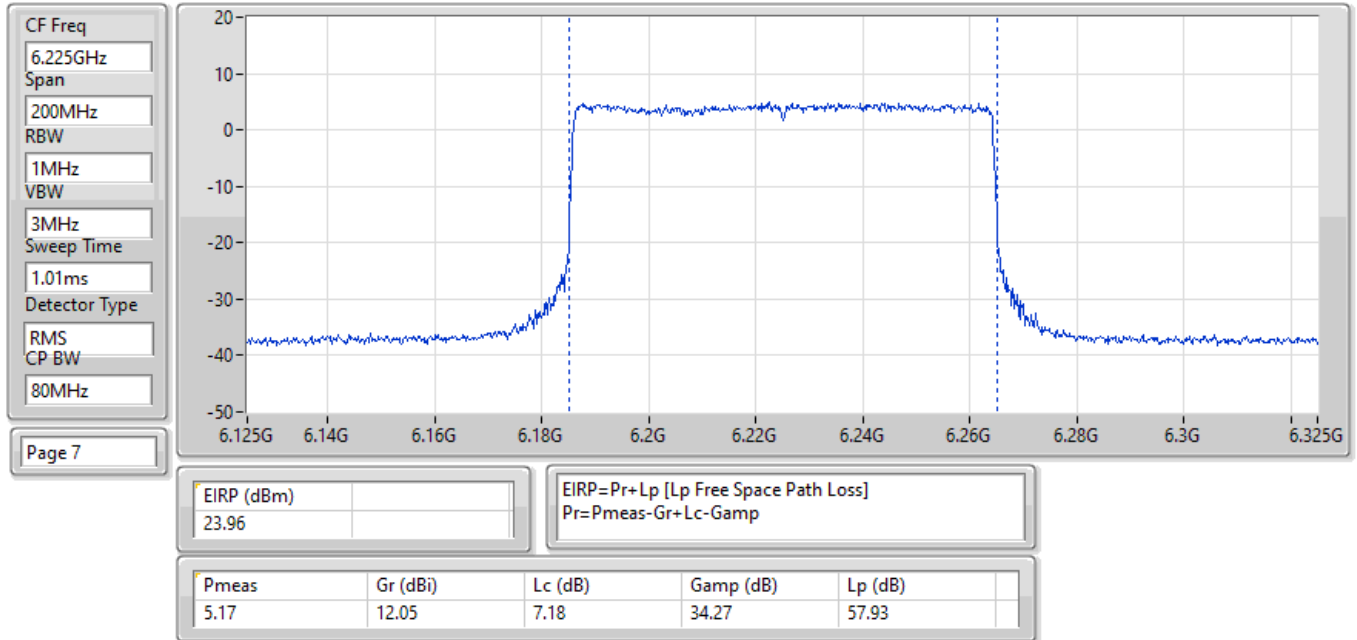
EIRP;Band:7.0G;be40,BF;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:7085MHz;TX



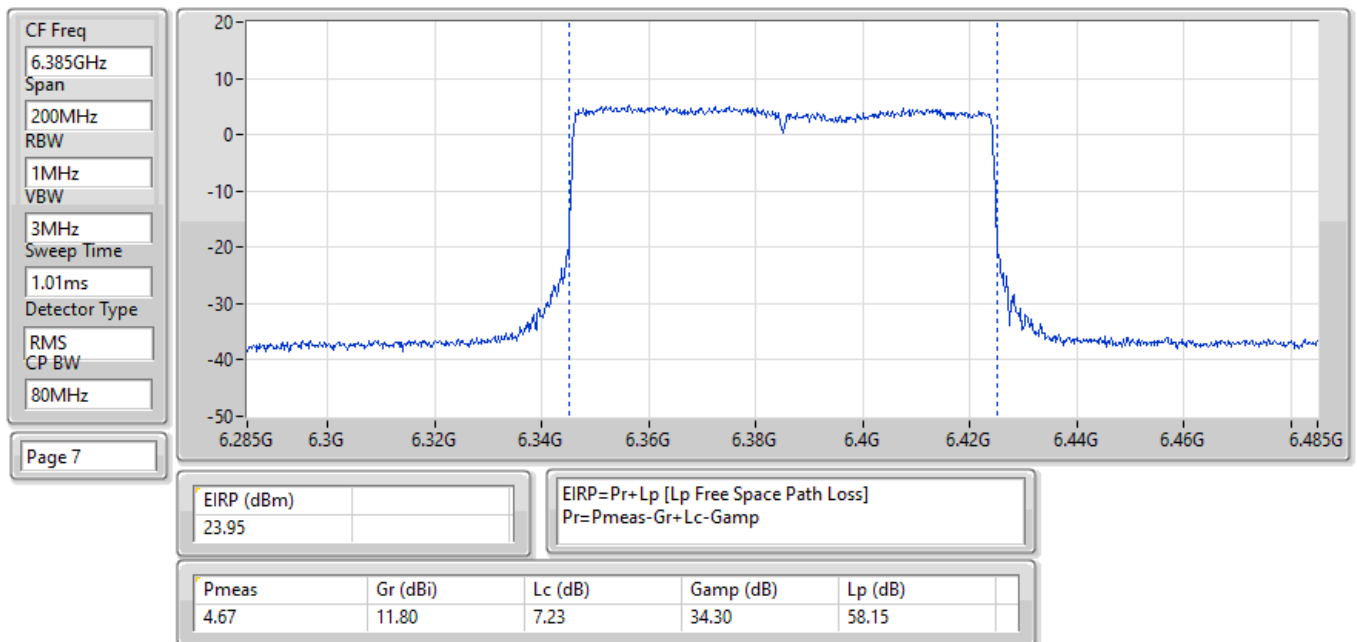
EIRP;Band:6.2G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:5985MHz;TX



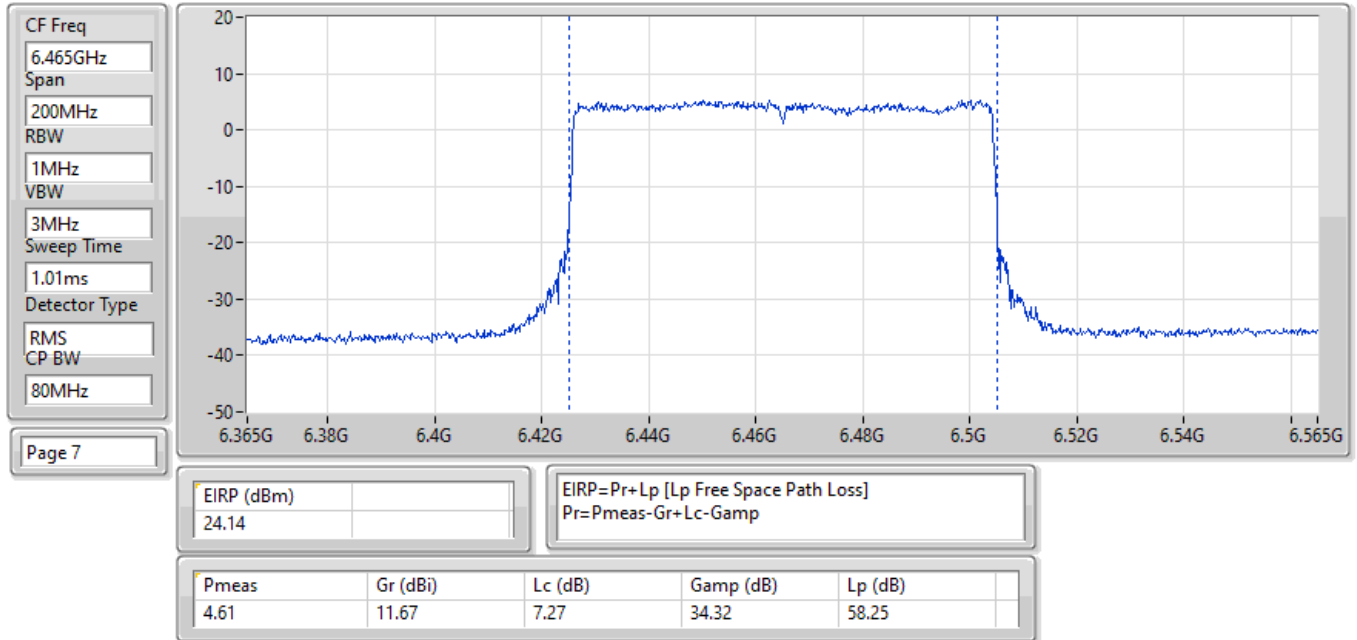
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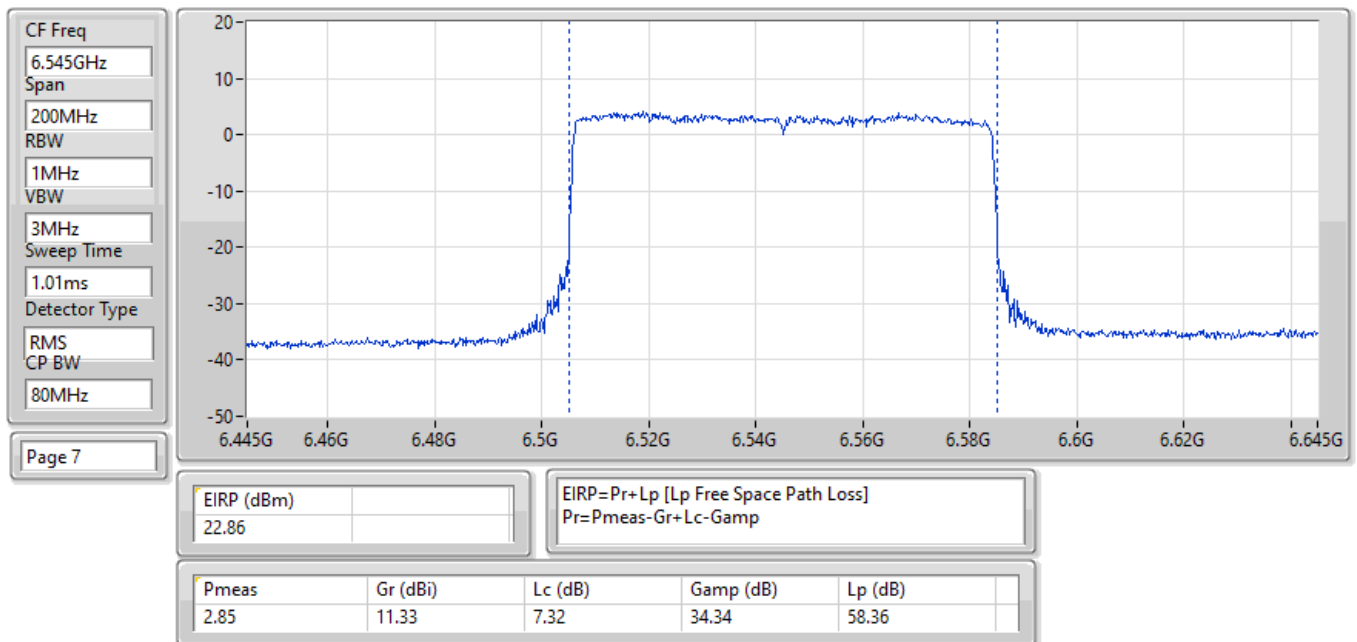
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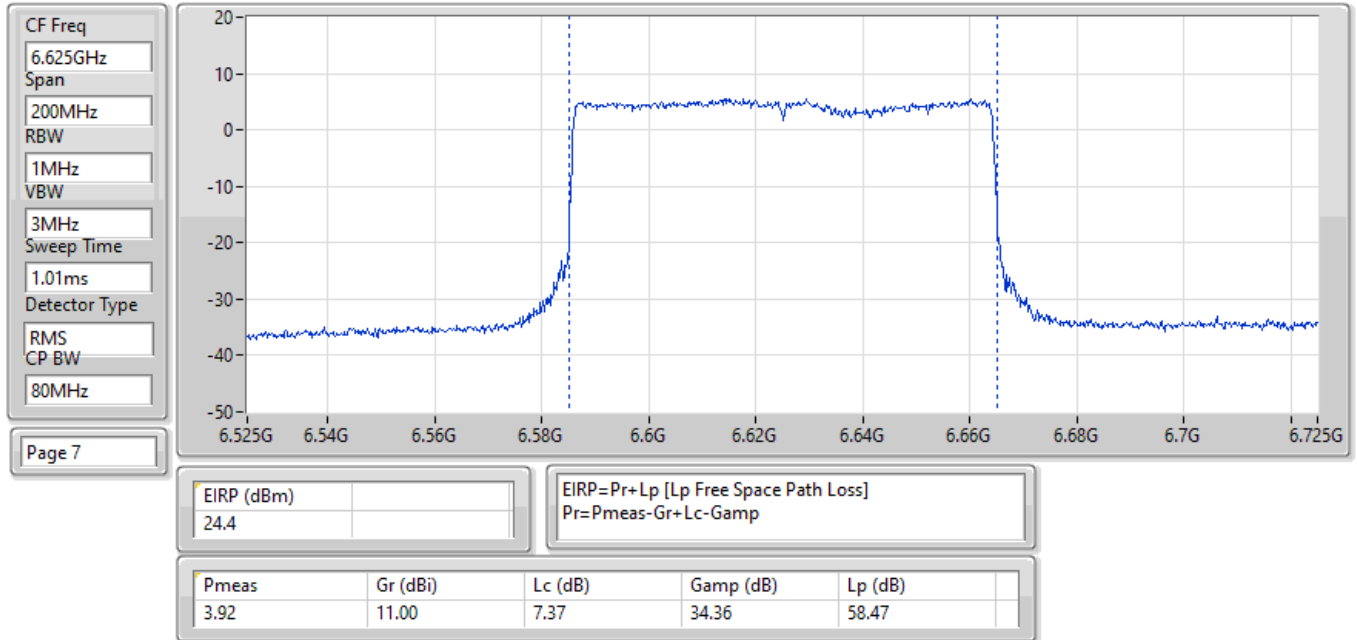
EIRP;Band:6.4G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:6465MHz;TX



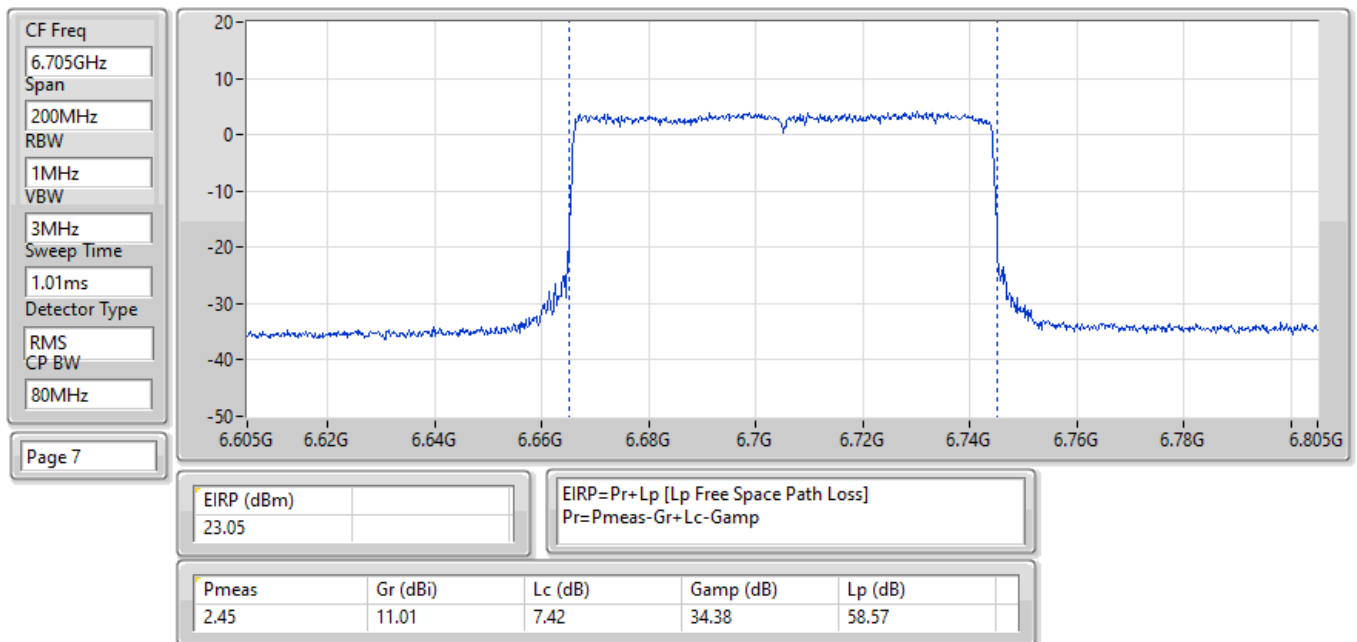
EIRP;Band:6.4G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:6545MHz;TX

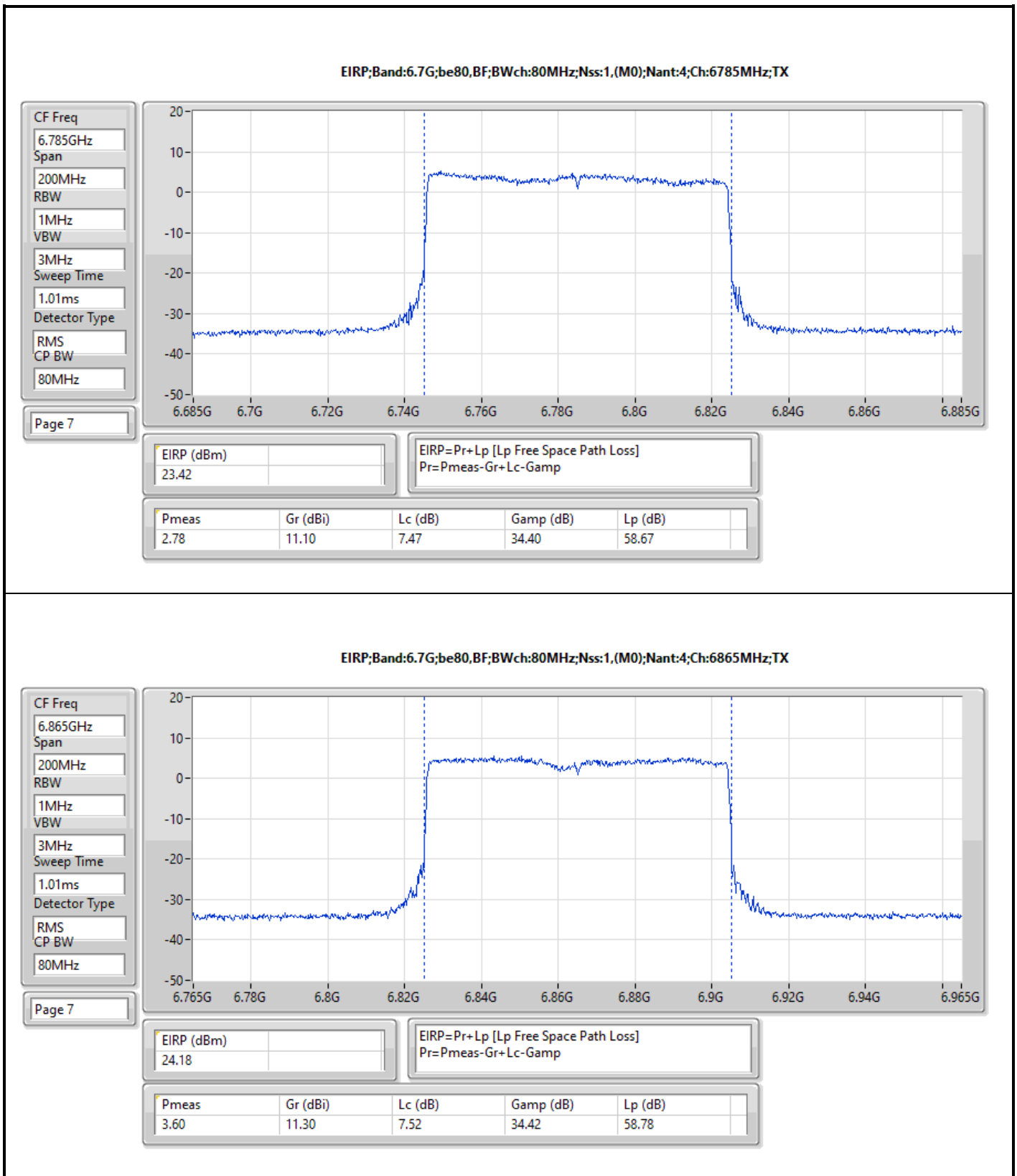


EIRP;Band:6.7G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:6625MHz;TX

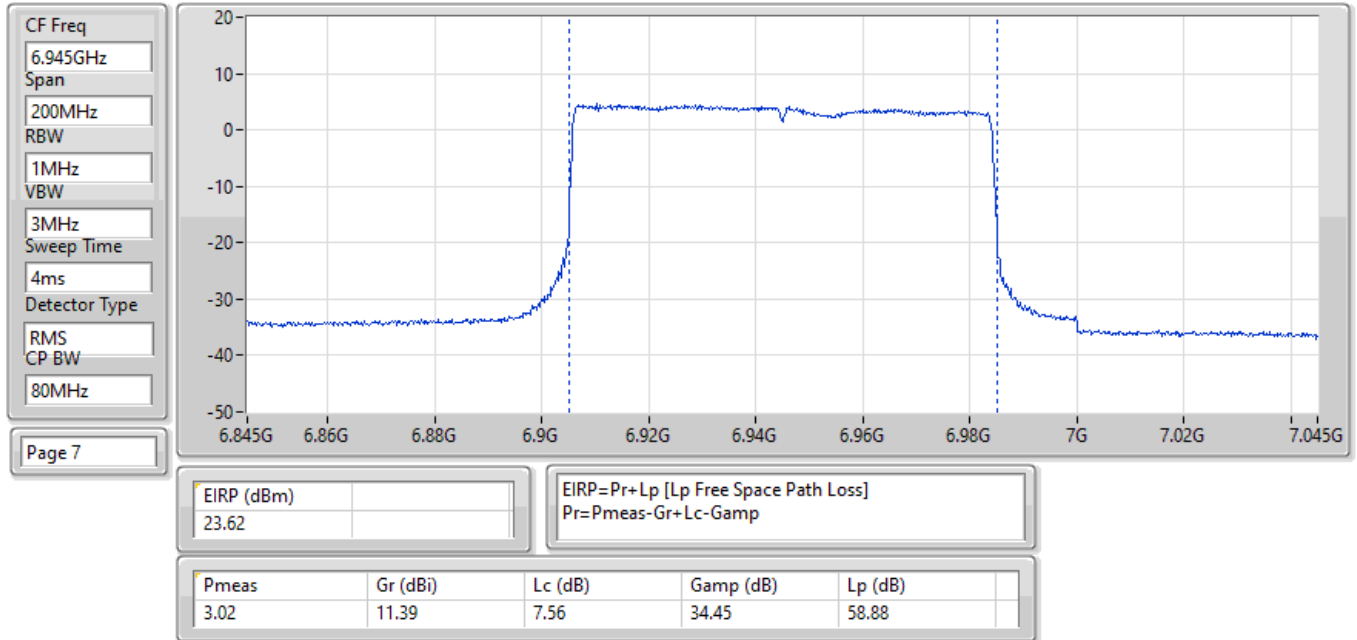


EIRP;Band:6.7G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:6705MHz;TX

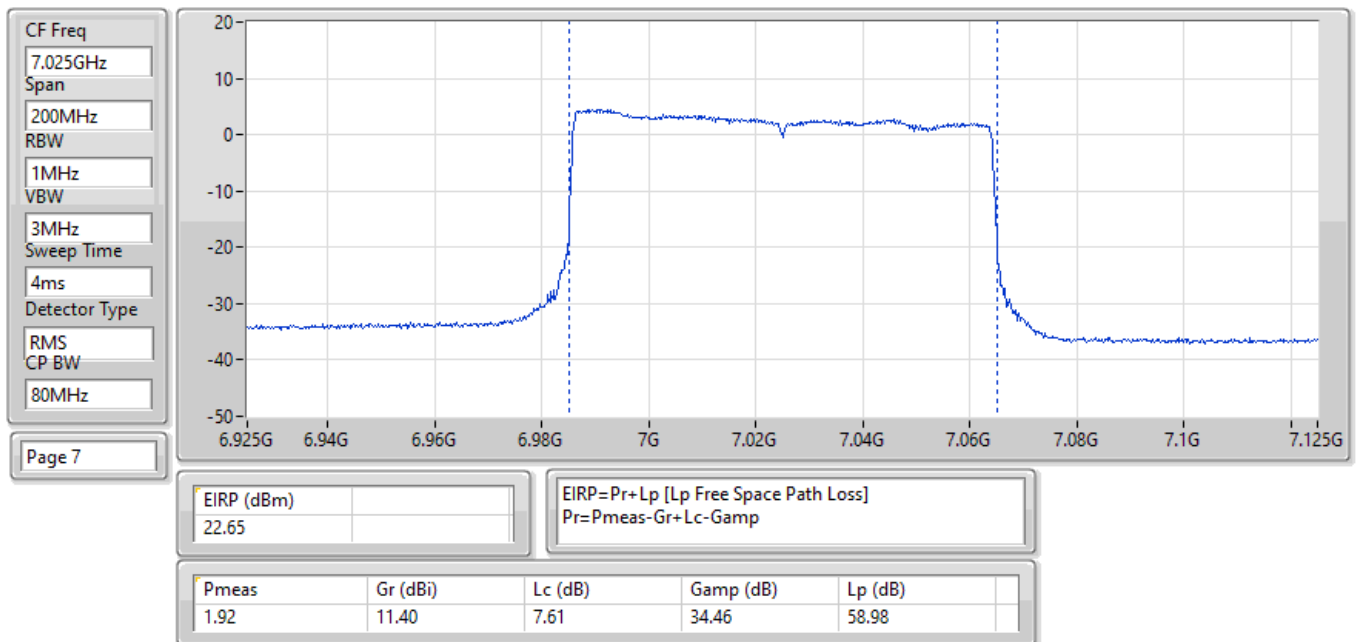




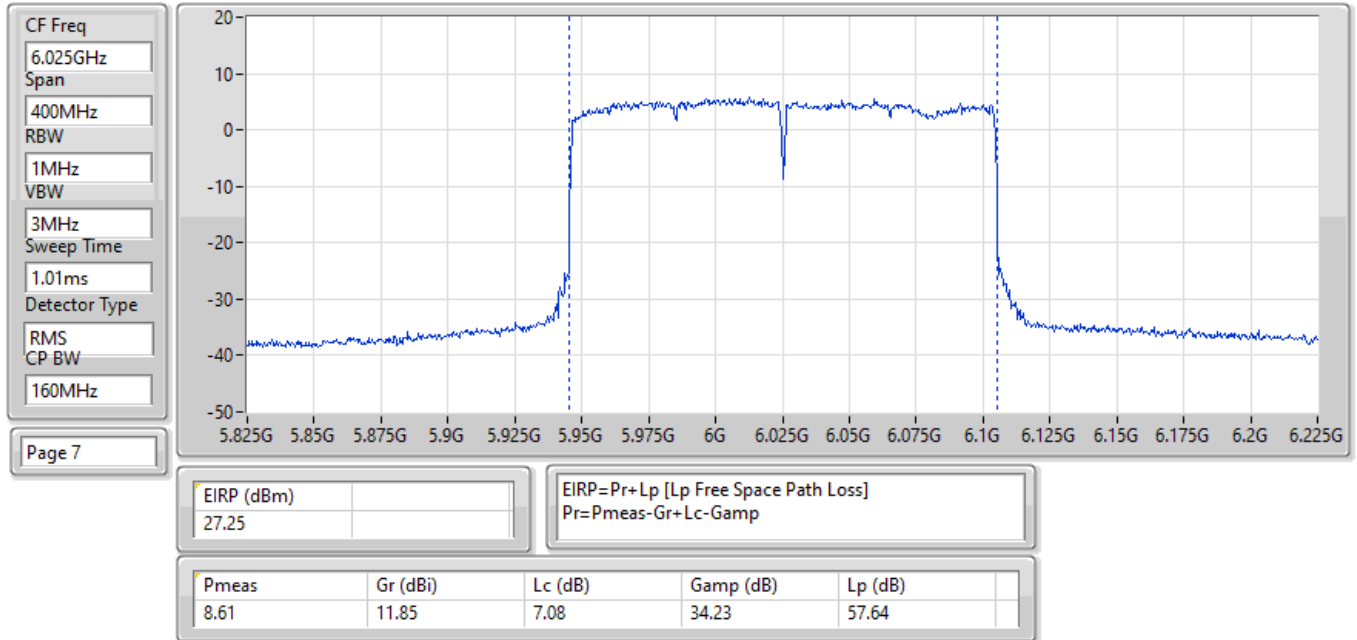
EIRP;Band:7.0G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:6945MHz;TX



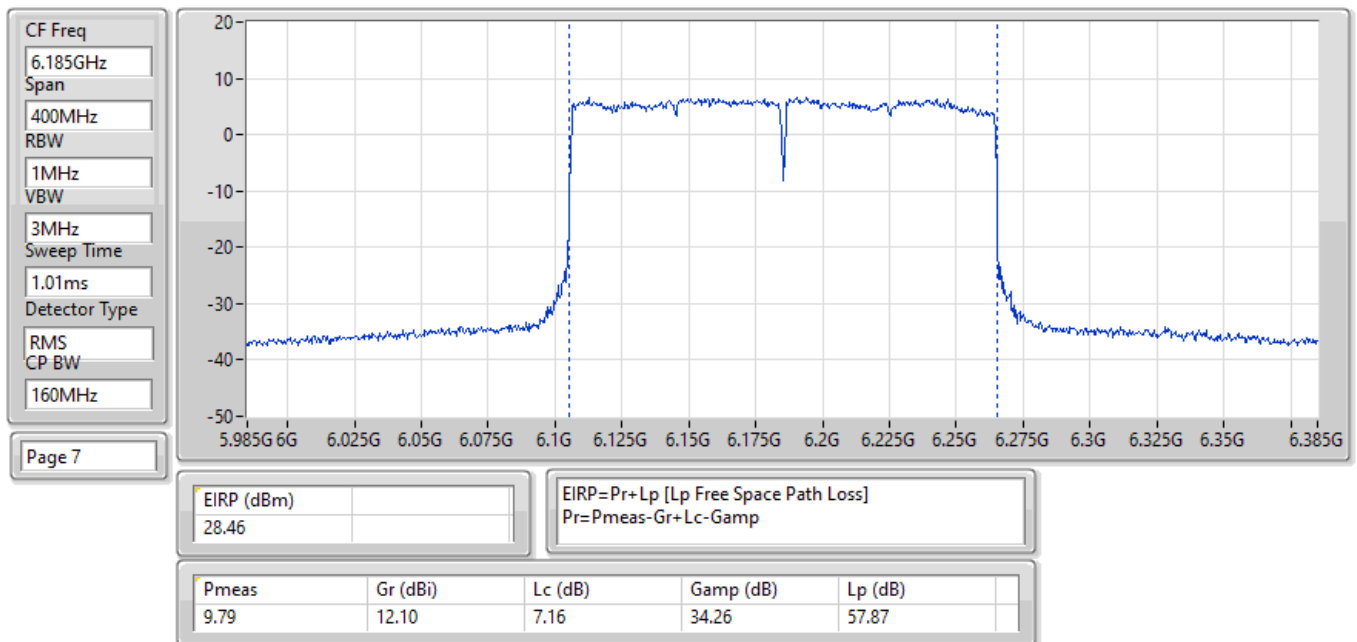
EIRP;Band:7.0G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:7025MHz;TX



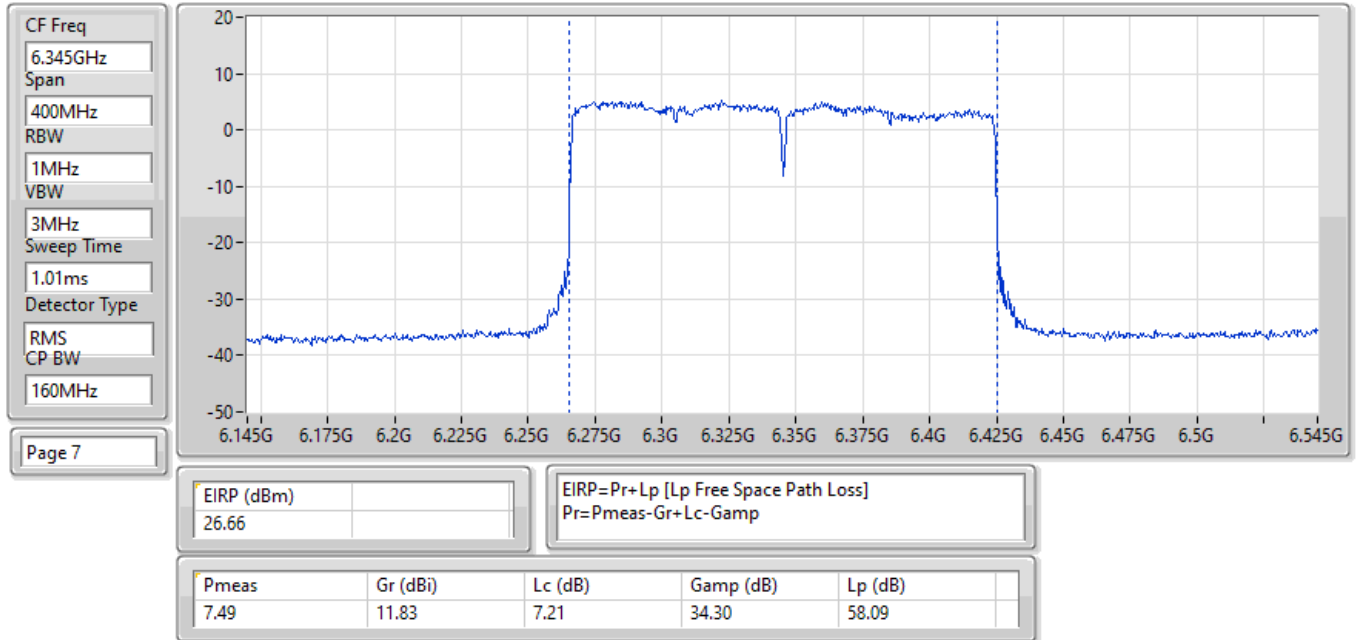
EIRP;Band:6.2G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:4;Ch:6025MHz;TX



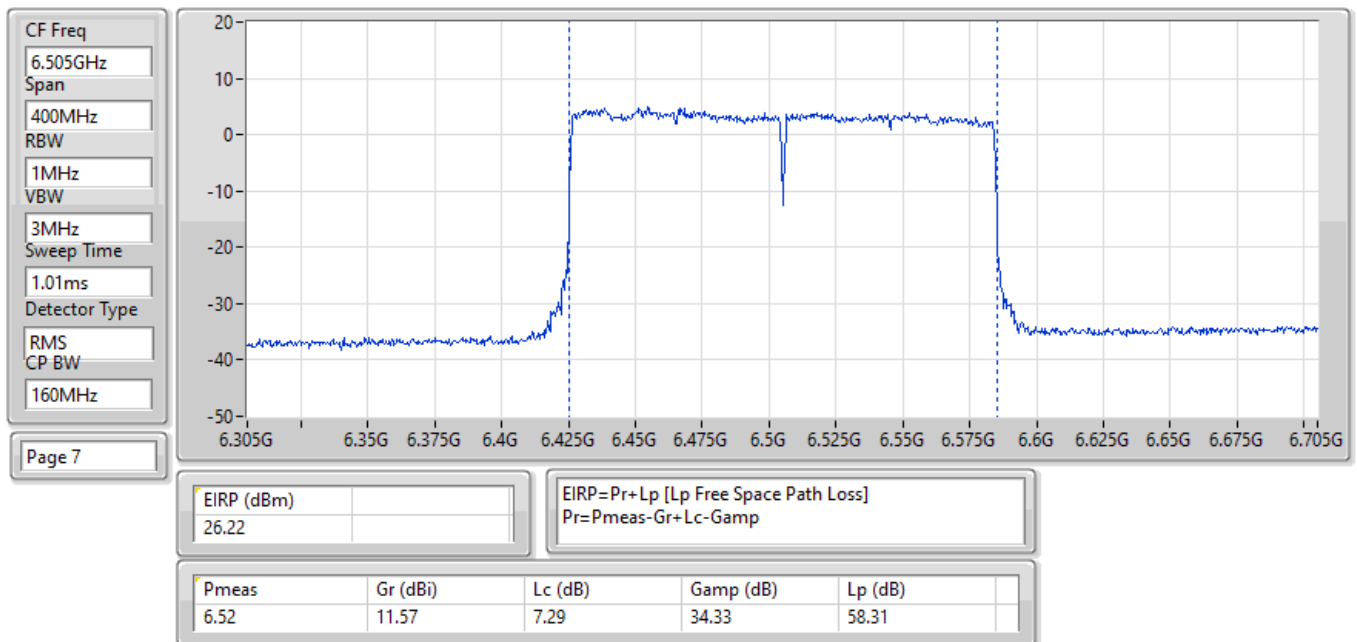
EIRP;Band:6.2G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:4;Ch:6185MHz;TX



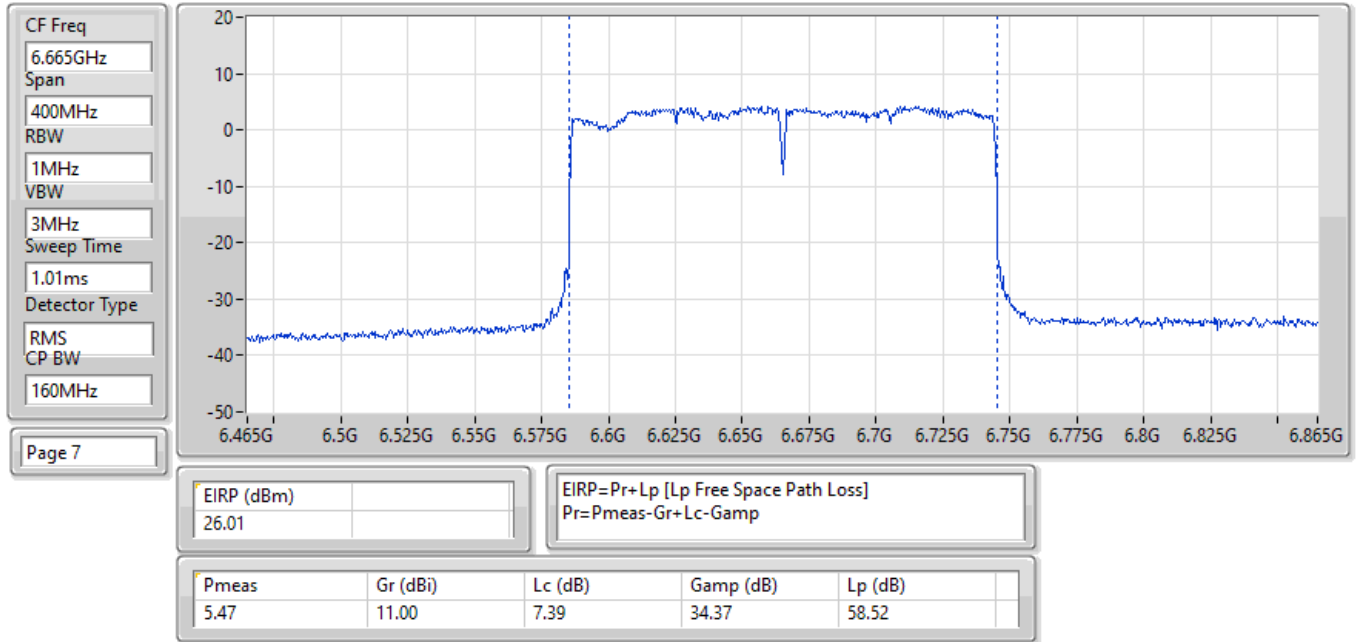
EIRP;Band:6.2G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:4;Ch:6345MHz;TX



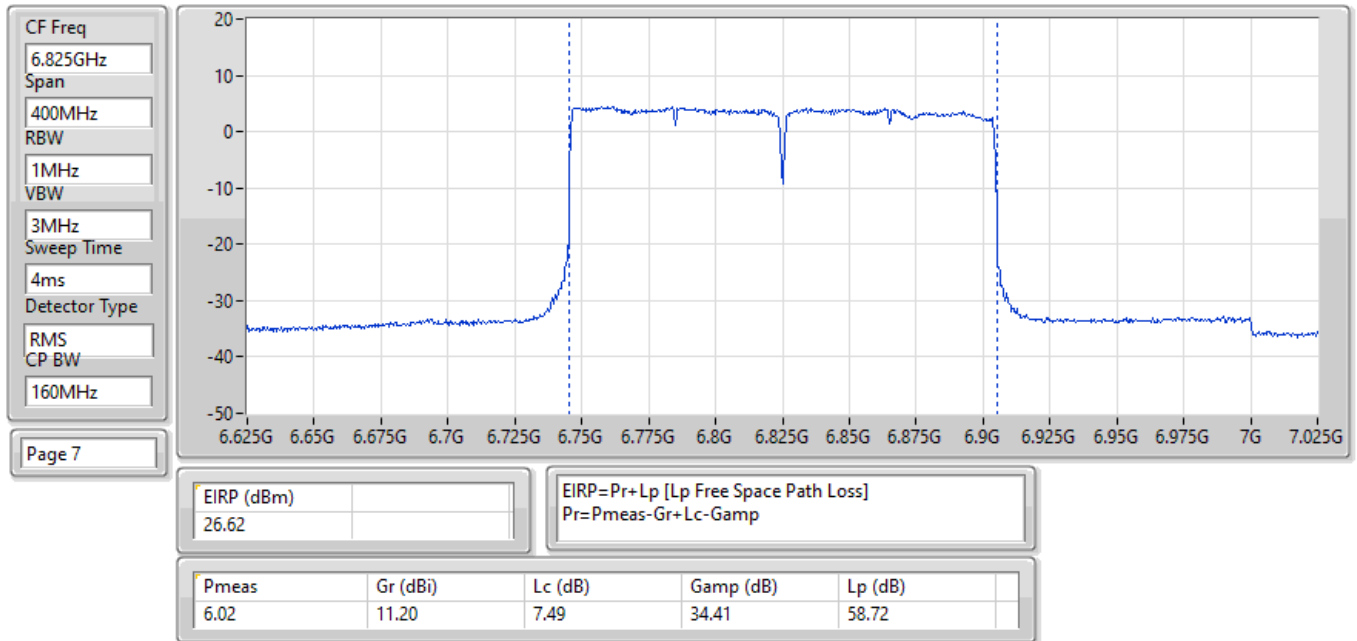
EIRP;Band:6.4G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:4;Ch:6505MHz;TX



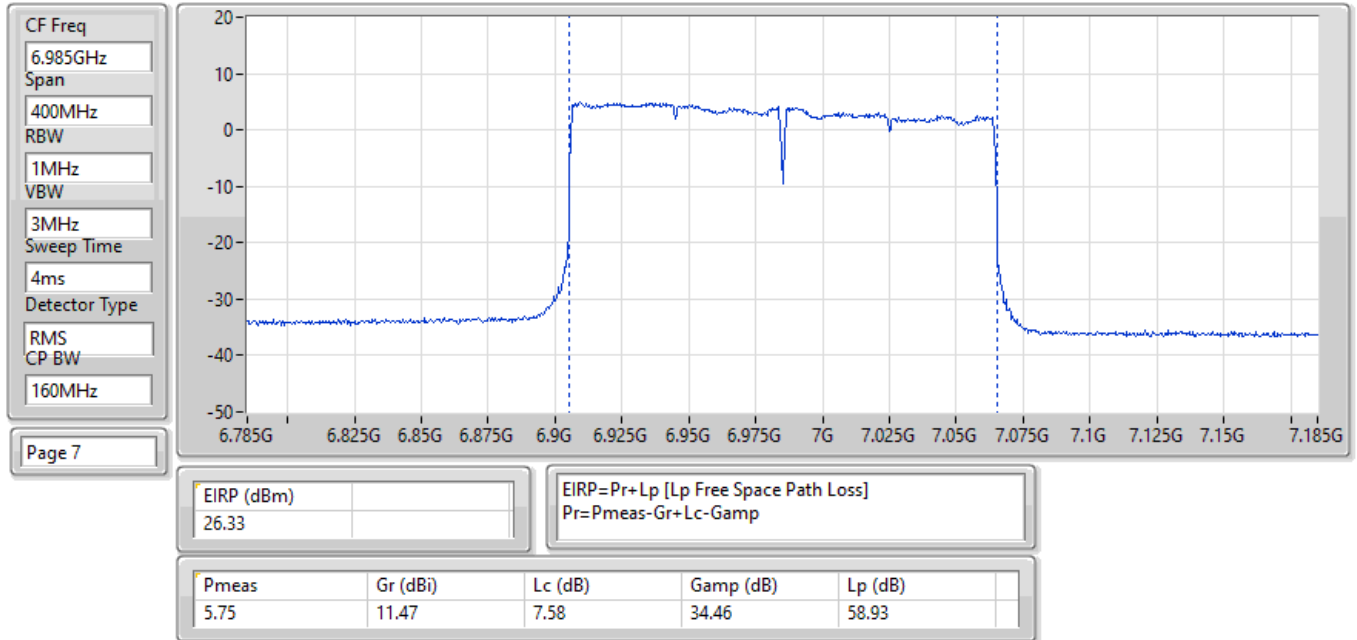
EIRP;Band:6.7G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:4;Ch:6665MHz;TX



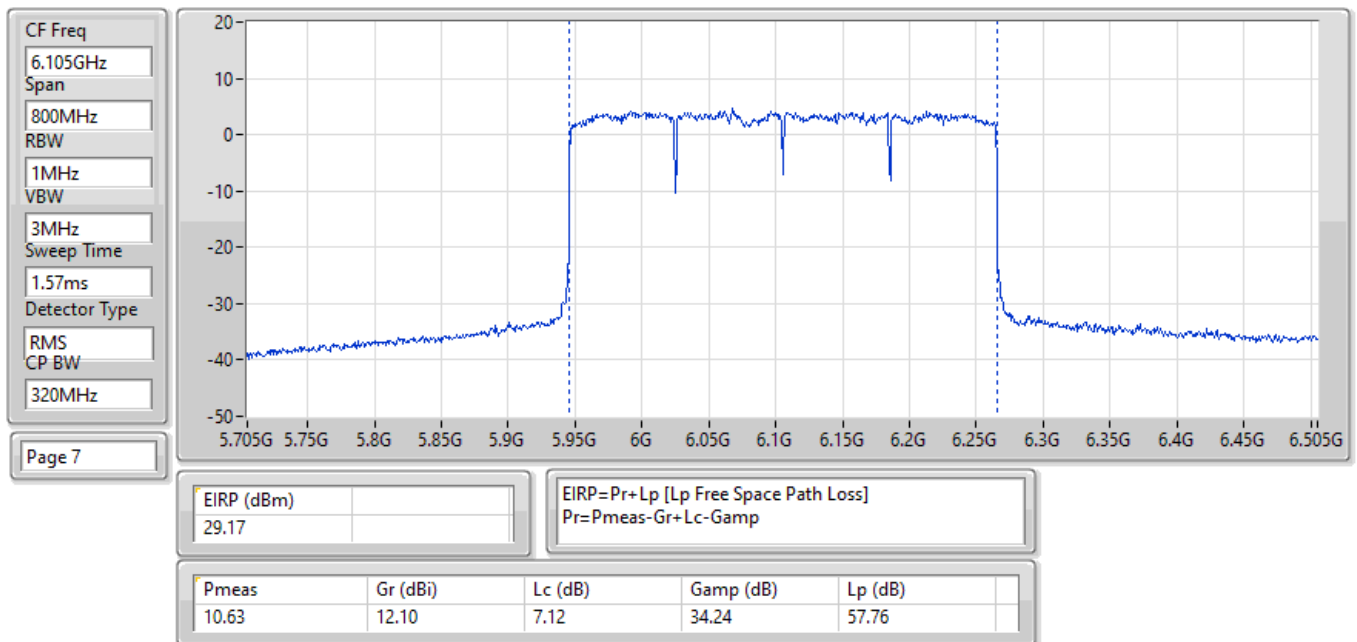
EIRP;Band:6.7G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:4;Ch:6825MHz;TX

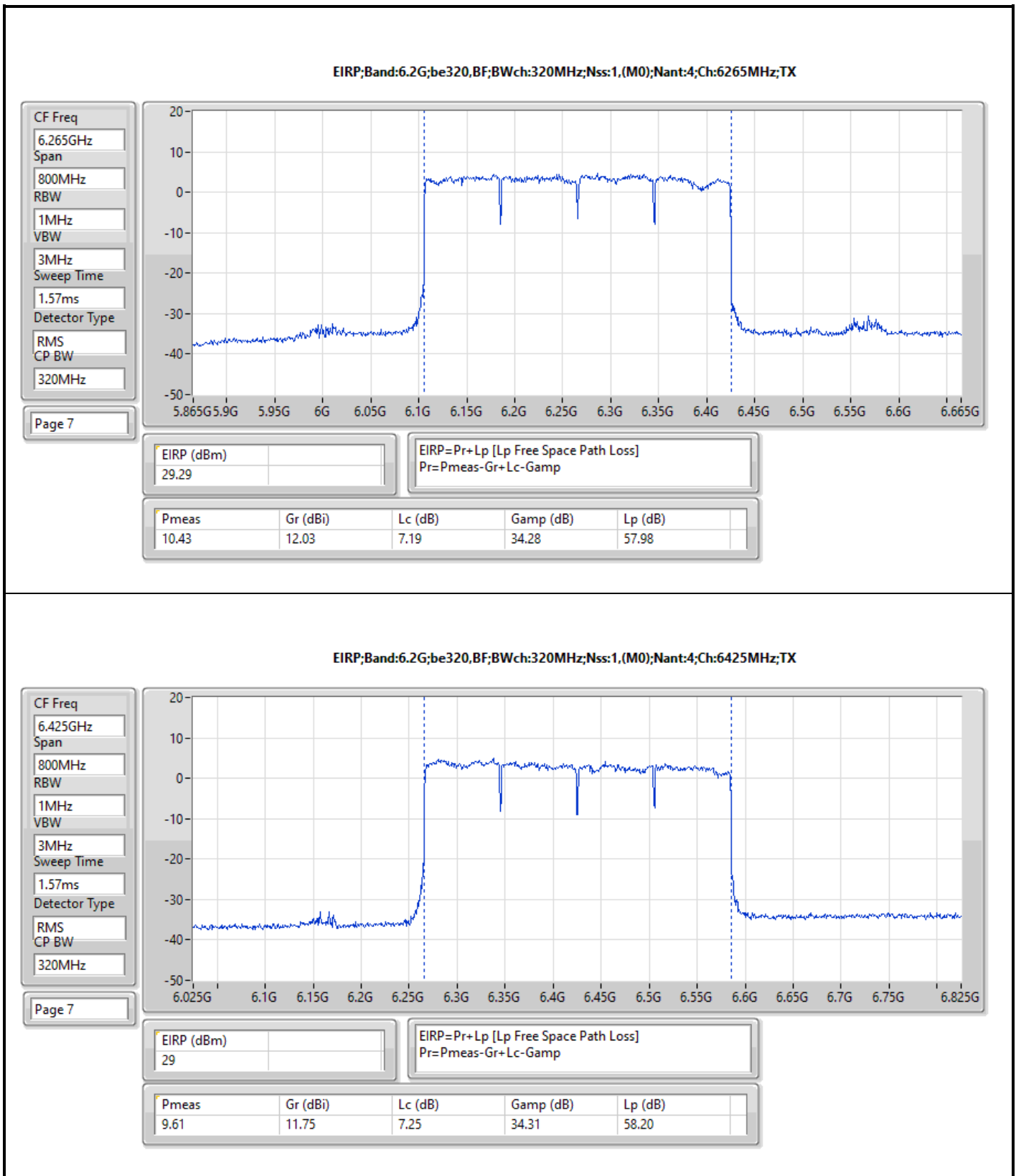


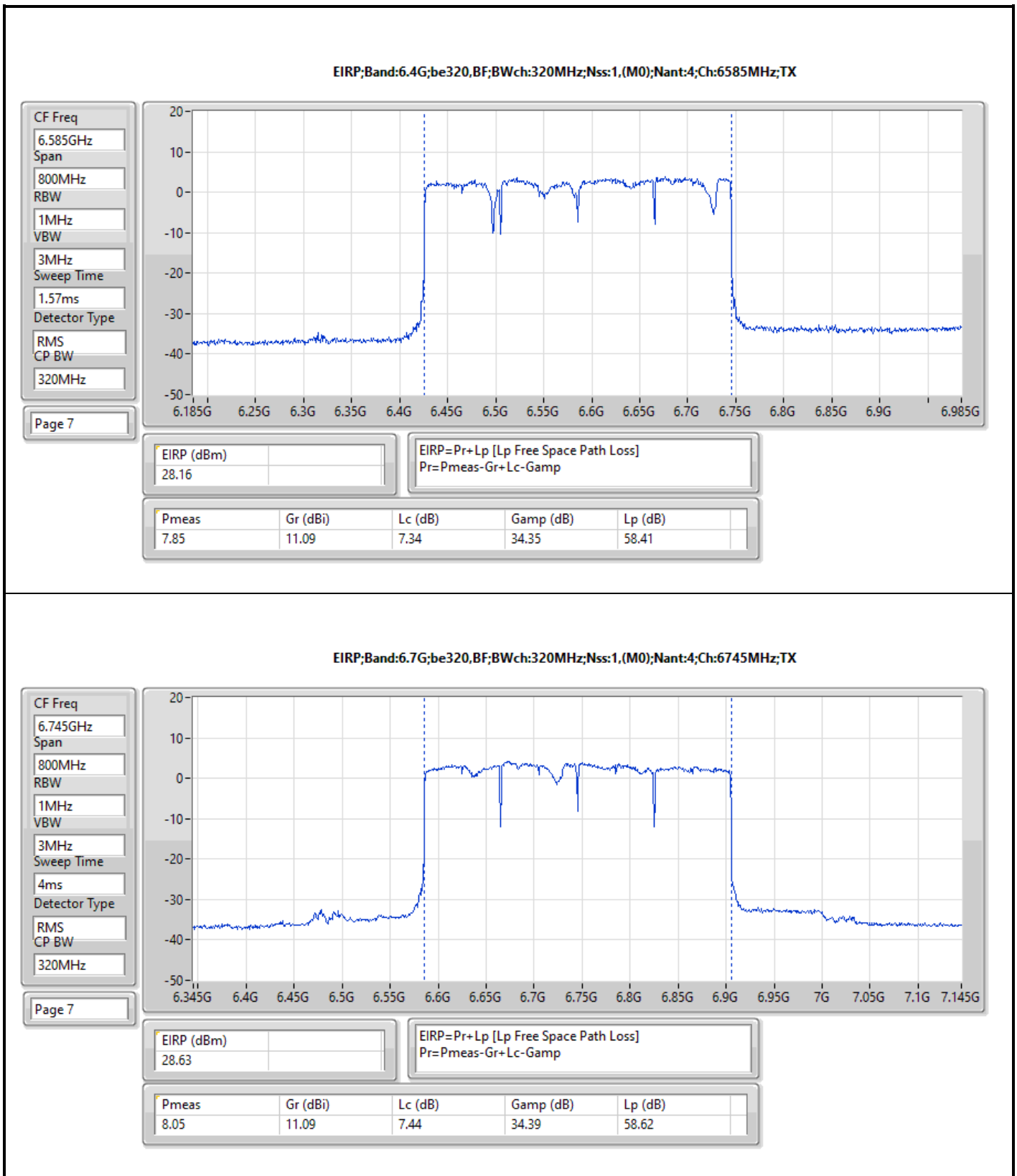
EIRP;Band:7.0G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:4;Ch:6985MHz;TX

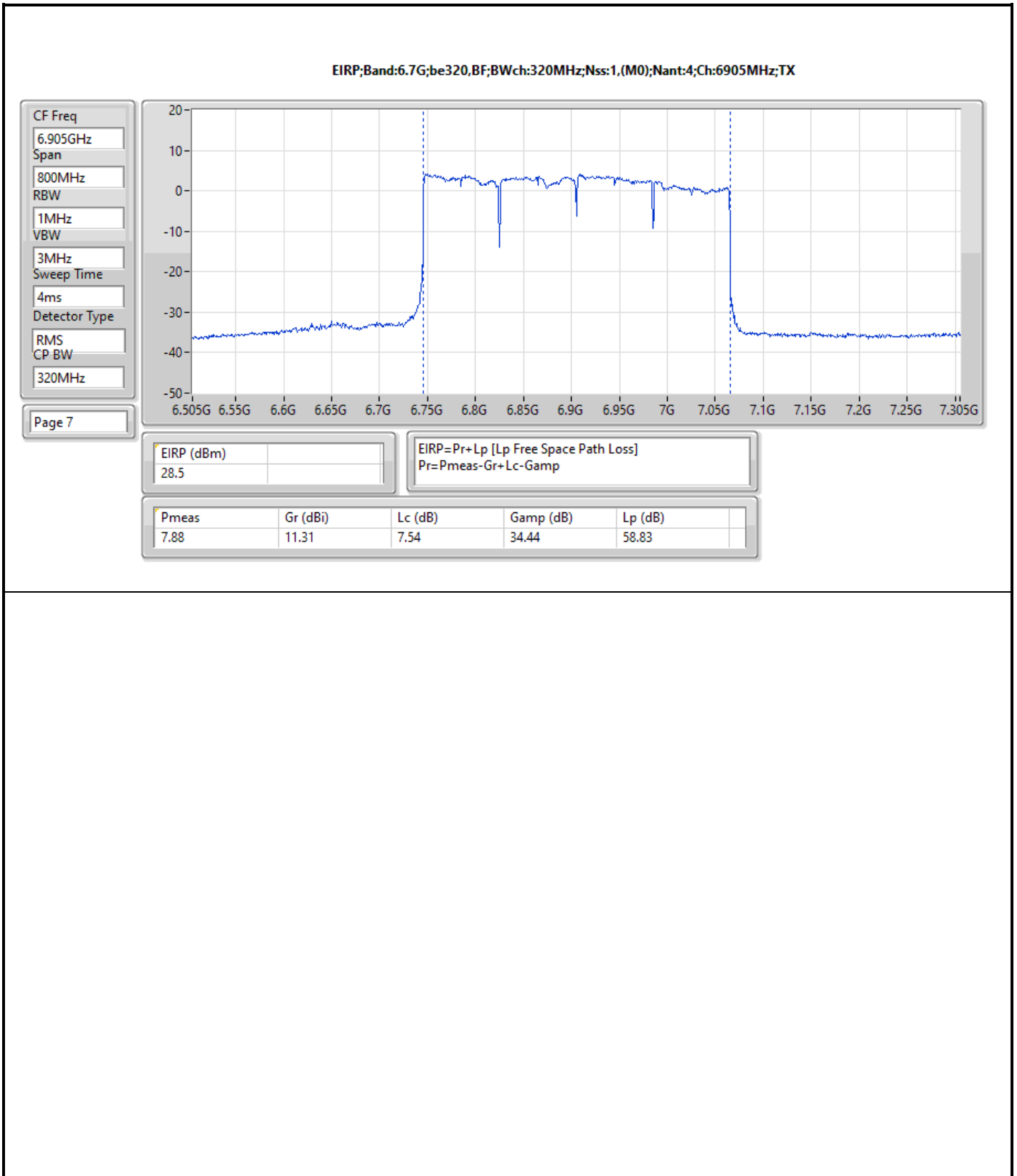


EIRP;Band:6.2G;be320,BF;BWch:320MHz;Nss:1,(M0);Nant:4;Ch:6105MHz;TX









Summary

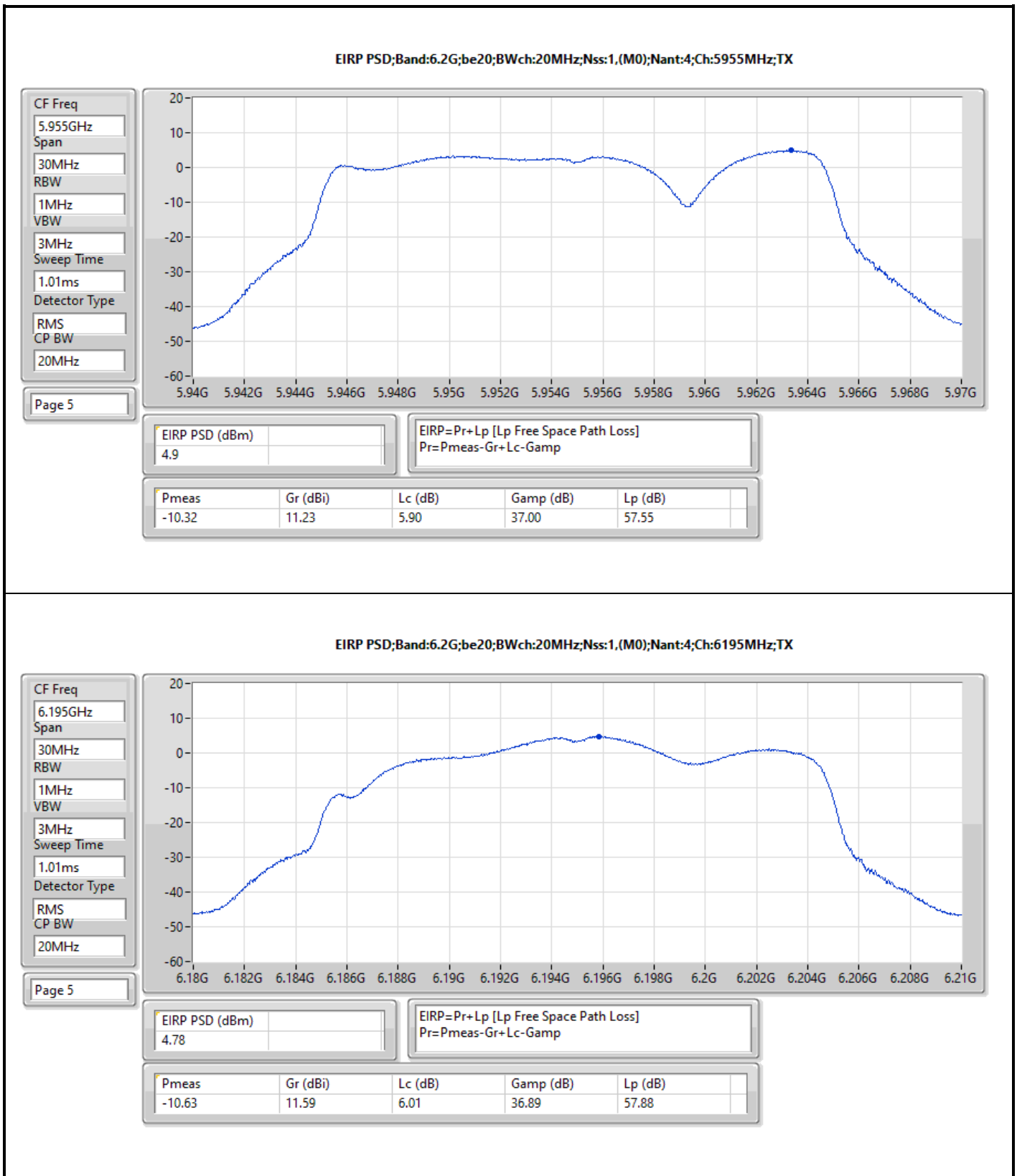
Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.925-6.425GHz	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	-1.12	4.90
802.11be EHT40_Nss1,(MCS0)_4TX	-1.25	4.77
802.11be EHT80_Nss1,(MCS0)_4TX	-1.14	4.88
802.11be EHT160_Nss1,(MCS0)_4TX	-1.22	4.80
802.11be EHT320_Nss1,(MCS0)_4TX	-1.12	4.90
6.425-6.525GHz	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	-1.32	4.70
802.11be EHT40_Nss1,(MCS0)_4TX	-1.03	4.99
802.11be EHT80_Nss1,(MCS0)_4TX	-1.81	4.21
802.11be EHT160_Nss1,(MCS0)_4TX	-1.05	4.97
802.11be EHT320_Nss1,(MCS0)_4TX	-1.51	4.51
6.525-6.875GHz	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	-1.41	4.61
802.11be EHT40_Nss1,(MCS0)_4TX	-1.31	4.71
802.11be EHT80_Nss1,(MCS0)_4TX	-1.34	4.68
802.11be EHT160_Nss1,(MCS0)_4TX	-1.13	4.89
802.11be EHT320_Nss1,(MCS0)_4TX	-1.31	4.71
6.875-7.125GHz	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	-1.28	4.74
802.11be EHT40_Nss1,(MCS0)_4TX	-1.32	4.70
802.11be EHT80_Nss1,(MCS0)_4TX	-1.44	4.58
802.11be EHT160_Nss1,(MCS0)_4TX	-1.96	4.06

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

Result

Mode	Result	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-
5955MHz	Pass	4.90	5.00
6195MHz	Pass	4.78	5.00
6415MHz	Pass	4.11	5.00
6435MHz	Pass	4.70	5.00
6475MHz	Pass	4.47	5.00
6515MHz	Pass	4.21	5.00
6535MHz	Pass	4.30	5.00
6695MHz	Pass	4.44	5.00
6875MHz	Pass	4.61	5.00
6895MHz	Pass	4.16	5.00
6995MHz	Pass	4.74	5.00
7095MHz	Pass	4.21	5.00
7115MHz	Pass	-0.98	5.00
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-
5965MHz	Pass	3.85	5.00
6205MHz	Pass	4.77	5.00
6405MHz	Pass	4.37	5.00
6445MHz	Pass	4.15	5.00
6485MHz	Pass	4.99	5.00
6525MHz	Pass	4.96	5.00
6565MHz	Pass	4.71	5.00
6685MHz	Pass	4.65	5.00
6885MHz	Pass	4.20	5.00
6925MHz	Pass	4.70	5.00
7005MHz	Pass	4.42	5.00
7085MHz	Pass	4.36	5.00
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-
5985MHz	Pass	4.57	5.00
6225MHz	Pass	4.28	5.00
6385MHz	Pass	4.88	5.00
6465MHz	Pass	4.05	5.00
6545MHz	Pass	4.21	5.00
6625MHz	Pass	4.31	5.00
6705MHz	Pass	4.31	5.00
6785MHz	Pass	4.68	5.00
6865MHz	Pass	4.61	5.00
6945MHz	Pass	4.58	5.00
7025MHz	Pass	4.57	5.00
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-
6025MHz	Pass	4.73	5.00
6185MHz	Pass	4.68	5.00
6345MHz	Pass	4.80	5.00
6505MHz	Pass	4.97	5.00
6665MHz	Pass	4.57	5.00
6825MHz	Pass	4.89	5.00
6985MHz	Pass	4.06	5.00
802.11be EHT320_Nss1,(MCS0)_4TX	-	-	-
6105MHz	Pass	4.90	5.00
6265MHz	Pass	4.51	5.00
6425MHz	Pass	4.75	5.00
6585MHz	Pass	4.51	5.00
6745MHz	Pass	4.71	5.00
6905MHz	Pass	4.40	5.00

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



CF Freq
6.195GHz

Span
30MHz

RBW
1MHz

VBW
3MHz

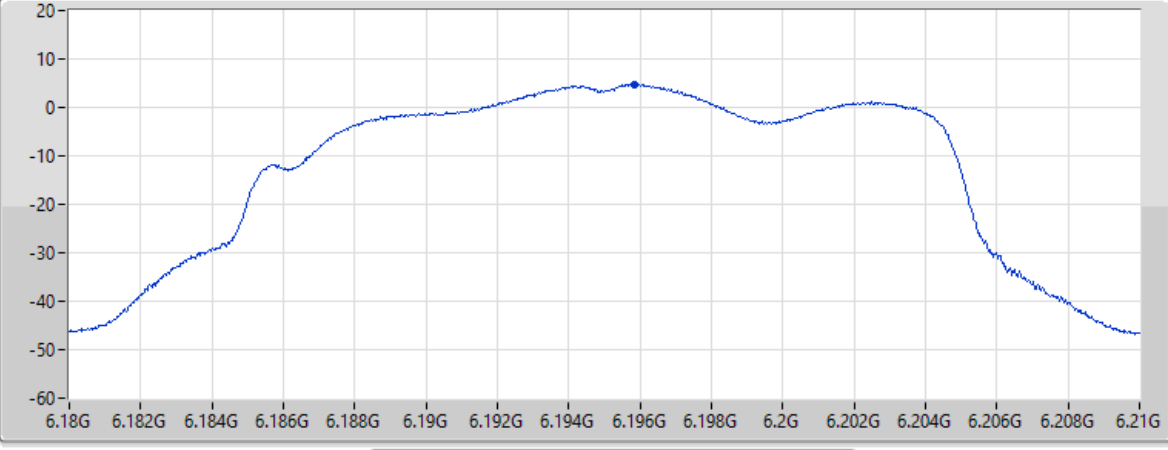
Sweep Time
1.01ms

Detector Type
RMS

CP BW
20MHz

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EIRP PSD;Band:6.2G;be20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:6195MHz;TX



EIRP PSD (dBm)
4.78

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

Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-10.63	11.59	6.01	36.89	57.88

