

Testing Laboratory
3787

RADIO TEST REPORT

FCC ID : Z8H89FT0085
Equipment : X7-35X Indoor Wi-Fi 7 2x2 Access Point
Brand Name : Cambium Networks
Model Name : X7-35X
Applicant : Cambium Networks Inc.
3800 Golf Road Suite 360 Rolling Meadows IL
United States 60008
Manufacturer : Cambium Networks Inc.
3800 Golf Road Suite 360 Rolling Meadows IL
United States 60008
Standard : 47 CFR FCC Part 15.407

The product was received on Nov. 24, 2023, and testing was started from Dec. 08, 2023 and completed on Mar. 03, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_5 Ver1.1

Page Number : 3 of 40
Issued Date : Apr. 01, 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	-

Note: Reference to Sporton Project No.: 3N2319.

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Sam Chen

Report Producer: Sophia Shiung



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
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]

Band	Mode	BWch (MHz)	Nant
5.925-7.125GHz	802.11ax HEW20	20	2TX
5.925-7.125GHz	802.11ax HEW20-BF	20	2TX
5.925-7.125GHz	802.11be EHT20	20	2TX
5.925-7.125GHz	802.11be EHT20-BF	20	2TX
5.925-7.125GHz	802.11ax HEW40	40	2TX
5.925-7.125GHz	802.11ax HEW40-BF	40	2TX
5.925-7.125GHz	802.11be EHT40	40	2TX
5.925-7.125GHz	802.11be EHT40-BF	40	2TX
5.925-7.125GHz	802.11ax HEW80	80	2TX
5.925-7.125GHz	802.11ax HEW80-BF	80	2TX
5.925-7.125GHz	802.11be EHT80	80	2TX
5.925-7.125GHz	802.11be EHT80-BF	80	2TX
5.925-7.125GHz	802.11ax HEW160	160	2TX
5.925-7.125GHz	802.11ax HEW160-BF	160	2TX
5.925-7.125GHz	802.11be EHT160	160	2TX
5.925-7.125GHz	802.11be EHT160-BF	160	2TX
5.925-7.125GHz	802.11be EHT320	320	2TX
5.925-7.125GHz	802.11be EHT320-BF	320	2TX

Note:

- HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- EHT20, EHT40, EHT80 and EHT160, EHT320 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz /5GHz	6GHz	Bluetooth/ Zigbee					
1	2	-	-	INPAQ	3010001479GD	PIFA Antenna	I-PEX	Note 1
2	1	-	-	INPAQ	3010001479GD	PIFA Antenna	I-PEX	
3	-	2	-	INPAQ	3010001479GD	PIFA Antenna	I-PEX	
4	-	1	-	INPAQ	3010001479GD	PIFA Antenna	I-PEX	
5	-	-	1	INPAQ	3010001479GD	Dipole Antenna	I-PEX	

Note 1:

Ant.	Port			WLAN 2.4GHz (dBi)	WLAN 5GHz (dBi)				WLAN 6GHz (dBi)				Bluetooth/ Zigbee (dBi)
	2.4GHz /5GHz	6GHz	Bluetooth/ Zigbee		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8	
1	2	-	-	2.35	3.32	3.7	4.67	4.73	-	-	-	-	-
2	1	-	-	2.23	3.5	3.57	5.19	4.82	-	-	-	-	-
3	-	2	-	-	-	-	-	-	5.29	5.95	5.95	5.30	-
4	-	1	-	-	-	-	-	-	5.69	5.80	5.80	5.45	-
5	-	-	1	-	-	-	-	-	-	-	-	-	5.6

Directional Gain (dBi)									
WLAN 2.4GHz		WLAN 5GHz UNII 1		WLAN 5GHz UNII 2A		WLAN 5GHz UNII 2C		WLAN 5GHz UNII 3	
2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S
5.01	2.35	4.34	3.5	5.36	3.7	6.89	5.19	6.2	4.82

Note 2: The above information (excepting WLAN 2.4GHz/5GHz gain) was declared by manufacturer.

<For 2.4GHz function>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For 5GHz function>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For 6GHz function>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For Bluetooth/Zigbee function> (1TX/1RX):

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

Port 1 could transmit/receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz)_1/T
802.11be EHT20	0.981	0.08	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT20-BF	0.889	0.51	2.988m	1k
802.11be EHT40	0.983	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT40-BF	0.801	0.96	3.713m	300
802.11be EHT80	0.987	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT80-BF	0.806	0.94	3.897m	300
802.11be EHT160	0.974	0.11	4.418m	300
802.11be EHT160-BF	0.801	0.96	3.898m	300
802.11be EHT320	0.949	0.23	2.25m	1k
802.11be EHT320-BF	0.797	0.99	3.988m	300

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 802.11n/VHT/ax/be in 2.4GHz, 802.11n/ac/ax/be in 5GHz and 802.11ax/be in 6GHz.			
Device Type	☒	Indoor Access Point	☐	Subordinate
	☐	Indoor Client	☐	Standard Power Access Point
	☐	Dual Client	☐	Standard Client
	☐	Fixed Client	☐	Very Low Power
Condition of EUT	☒	Indoor	☐	Outdoor
Channel Puncturing Function	☐	Supported	☒	Unsupported
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	For Non-beamforming mode: QSPR V5.14.00227.1 For Beamforming mode: DOS [ver 6.1.7601]			
Software / Firmware Version for CBP	7.0-s12			

Note: The above information was declared by manufacturer.

**1.1.5 Table for EUT Supports Function**

Function	Supports Type	Supports Bands
AP	Master	2.4GHz / 5GHz UNII 1~3 / 6GHz UNII 5~8
Mesh	Master	2.4GHz / 5GHz UNII 1~3
Slave	Slave without Radar detection	2.4GHz / 5GHz UNII 1~3

Note1: For above table list, only AP mode was tested and recorded in this test.

Note2: The above information was declared by manufacturer.

1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR3N2319.

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

Modifications	Performance Checking
1. Enable 5GHz UNII 2A~UNII 2C. 2. Enable bandwidth 160MHz for 5GHz function.	After evaluation, this test report was not affected.
3. Enable 6GHz UNII 5~UNII 8 for Low-power Indoor Access Point (6ID) mode.	All test items.



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 15.407
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 v02r01

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

- ♦ FCC KDB 987594 D02 v02r01
- ♦ FCC KDB 662911 D03 v01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted (For other tests)	TH01-CB	KJ Chang	21.3~21.9 / 65~68	Dec. 27, 2023~ Dec. 30, 2023
RF Radiated (For E.I.R.P. Power & PSD)	03CH01-CB	Gordon Hung	22.4~23.5 / 55~58	Dec. 08, 2023~ Feb. 06, 2024
	03CH02-CB		22.7~23.8 / 56~59	
	03CH06-CB		21.9~22.8 / 56~58	
Radiated < 1GHz	03CH05-CB	Gordon Hung	21~22 / 56~59	Dec. 11, 2023~ Feb. 05, 2024
Radiated > 1GHz	03CH01-CB	Gordon Hung	22.4~23.5 / 55~58	Dec. 08, 2023~ Feb. 06, 2024
	03CH02-CB		22.7~23.8 / 56~59	
	03CH06-CB		21.9~22.8 / 56~58	
AC Conduction	CO01-CB	Elvin Yeh	22~23 / 55~56	Jan. 15, 2024
RF Conducted (Contention-Based Protocol test)	DF02-CB	Caster Chang	16.2~18.8 / 59~63	Mar. 02, 2024~ Mar. 03, 2024



1.4 Measurement Uncertainty

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

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



2 Test Configuration of EUT

2.1 Test Channel Mode

For Non-beamforming mode:

Mode
802.11be EHT20_Nss1,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz Straddle 6.525-6.875GHz
6895MHz
6995MHz
7095MHz
7115MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz Straddle 6.425-6.525GHz
6565MHz
6685MHz
6885MHz Straddle 6.525-6.875GHz
6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss1,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz Straddle 6.425-6.525GHz
6625MHz



6705MHz
6785MHz
6865MHz Straddle 6.525-6.875GHz
6945MHz
7025MHz
802.11be EHT160_Nss1,(MCS0)_2TX
6025MHz
6185MHz
6345MHz
6505MHz Straddle 6.425-6.525GHz
6665MHz
6825MHz Straddle 6.525-6.875GHz
6985MHz
802.11be EHT320_Nss1,(MCS0)_2TX
6105MHz
6265MHz
6425MHz Straddle 5.925-6.425GHz
6585MHz
6745MHz Straddle 6.525-6.875GHz
6905MHz

For Beamforming mode:

Mode
802.11be EHT20-BF_Nss1,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz Straddle 6.525-6.875GHz
6895MHz
6995MHz
7095MHz
7115MHz
802.11be EHT40-BF_Nss1,(MCS0)_2TX
5965MHz
6205MHz



6405MHz
6445MHz
6485MHz
6525MHz Straddle 6.425-6.525GHz
6565MHz
6685MHz
6885MHz Straddle 6.525-6.875GHz
6925MHz
7005MHz
7085MHz
802.11be EHT80-BF_Nss1,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz Straddle 6.425-6.525GHz
6625MHz
6705MHz
6785MHz
6865MHz Straddle 6.525-6.875GHz
6945MHz
7025MHz
802.11be EHT160-BF_Nss1,(MCS0)_2TX
6025MHz
6185MHz
6345MHz
6505MHz Straddle 6.425-6.525GHz
6665MHz
6825MHz Straddle 6.525-6.875GHz
6985MHz
802.11be EHT320-BF_Nss1,(MCS0)_2TX
6105MHz
6265MHz
6425MHz Straddle 5.925-6.425GHz
6585MHz
6745MHz Straddle 6.525-6.875GHz
6905MHz

**Note:**

- ♦ Evaluated EHT20/EHT40/EHT80/EHT160/EHT320 mode only due to the similar modulation. The power setting of VHT20/VHT40/VHT80/VHT160 mode are the same or lower than EHT20/EHT40/EHT80/EHT160.

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	WLAN/Bluetooth (Normal Link), Zigbee (TX, RX)
1	EUT + Zigbee (TX) + PoE
2	EUT + Zigbee (RX) + PoE
3	EUT + Bluetooth + PoE
For operating, mode 1 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Contention Based Protocol Emission MASK
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.)
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.
After evaluating, the worst case was found at Y axis. Thus the measurement will follow this same test configuration.	
1	EUT in Y axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
The EUT was performed testing at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Z axis. Thus, the measurement will follow this same test configuration.	
1	EUT in Z axis + WLAN 6GHz + PoE
Operating Mode > 1GHz	CTX
After evaluating, the worst case was found at Z axis. Thus, the measurement will follow this same test configuration.	
1	EUT in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Bluetooth + WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz
2	Zigbee + WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz
Refer to Sporton Test Report No.: FA3N2319-01 for Co-location RF Exposure Evaluation.	

Note: The PoE listed below is for measurement only, and would not be marketed.

The PoE information is listed as below:

Support Unit	Brand Name	Model Number
PoE	Cambium Networks	P060U04



2.3 EUT Operation during Test

For CTX/CRX Mode:

Non-beamforming mode:

The EUT was programmed to be in continuously transmitting/receiving mode.

Beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 11 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Device and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories
Bracket type 1*1
Bracket type 2*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Cambium Networks	P060U04	N/A
B	Flash disk3.0	Transcend	JetFlash-700	N/A
C	LAN 2.5G NB	DELL	E6430	N/A
D	2.4G+5G Device	Cambium Networks	X7-35X	N/A
E	2.4G+5G Device NB	DELL	E6430	N/A
F	6G Device NB	DELL	E6430	N/A
G	Zigbee Device	Cambium Networks	X7-35X	N/A
H	Zigbee PoE	H3C	N/A	N/A
I	Zigbee Device NB	DELL	E6430	N/A
J	6G Device	INTEL	BE200	PD9BE200NG

For Radiated < 1GHz:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	Cambium Networks	P060U04	N/A

For Radiated > 1GHz & RF Conducted:

Non-beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	Cambium Networks	P060U04	N/A

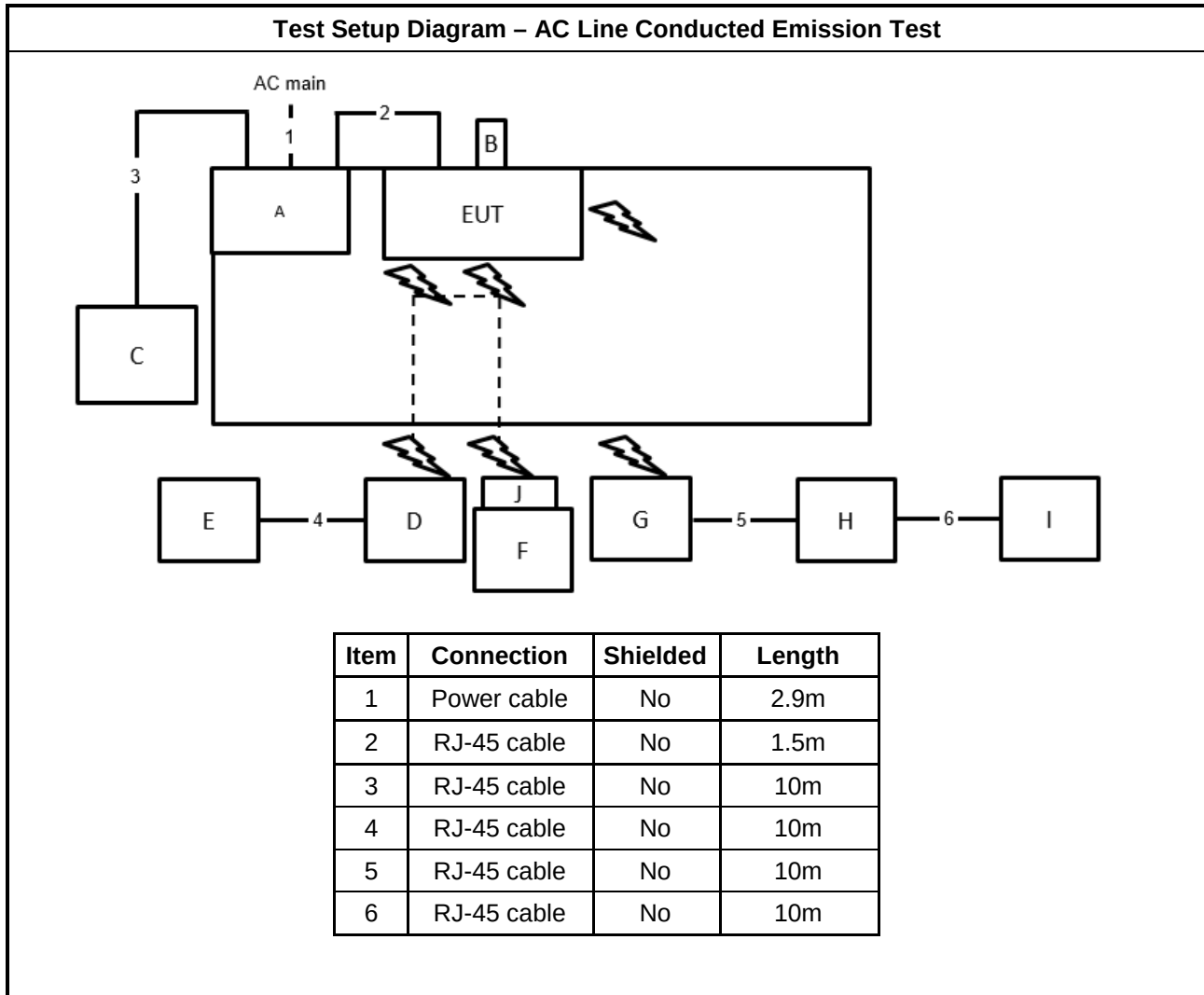
Beamforming mode:

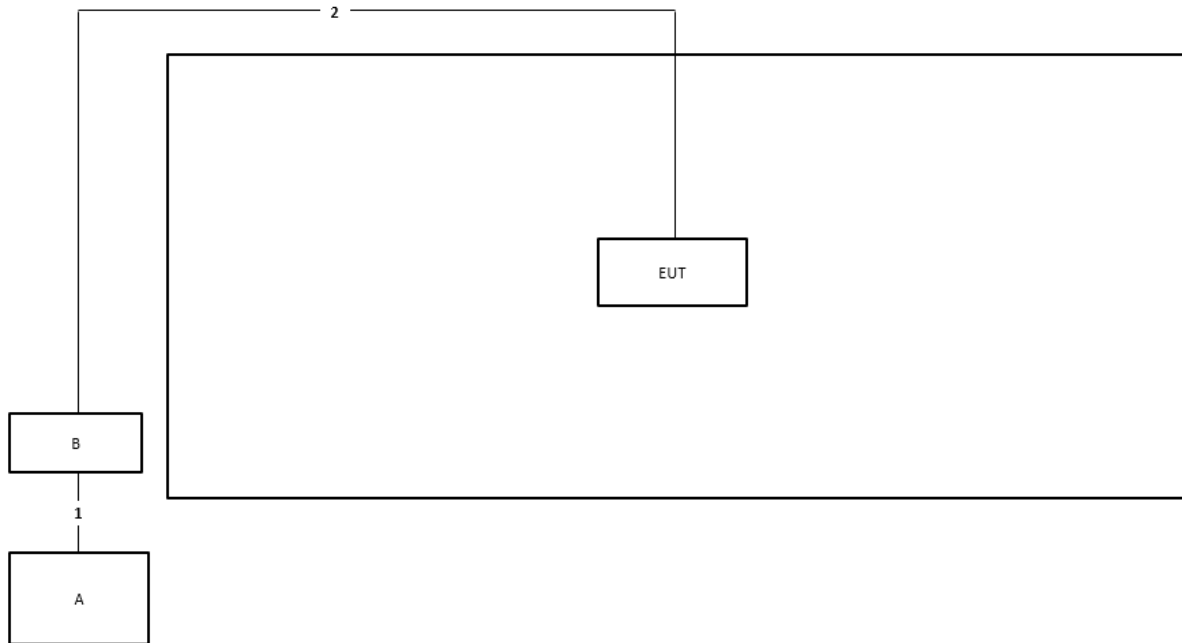
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	Cambium Networks	P060U04	N/A
C	Device	Cambium Networks	X7-35X	N/A
D	NB	DELL	E4300	N/A

**For RF Conducted (Contention Based Protocol test):**

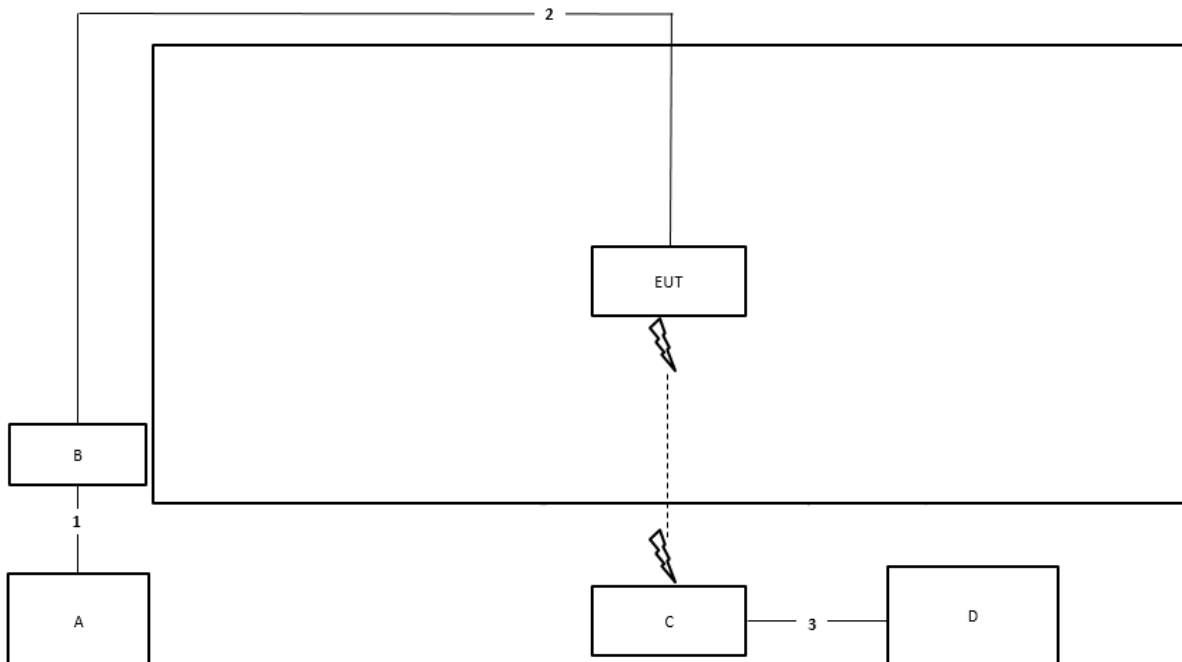
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E6230	N/A
C	WLAN module	Intel	BE200NGW	PD9BE200NG
D	PoE	Cambium Networks	P060U04	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz & Radiated Test > 1GHz (Non-beamforming mode)


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

Test Setup Diagram - Radiated Test > 1GHz (Beamforming mode)


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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

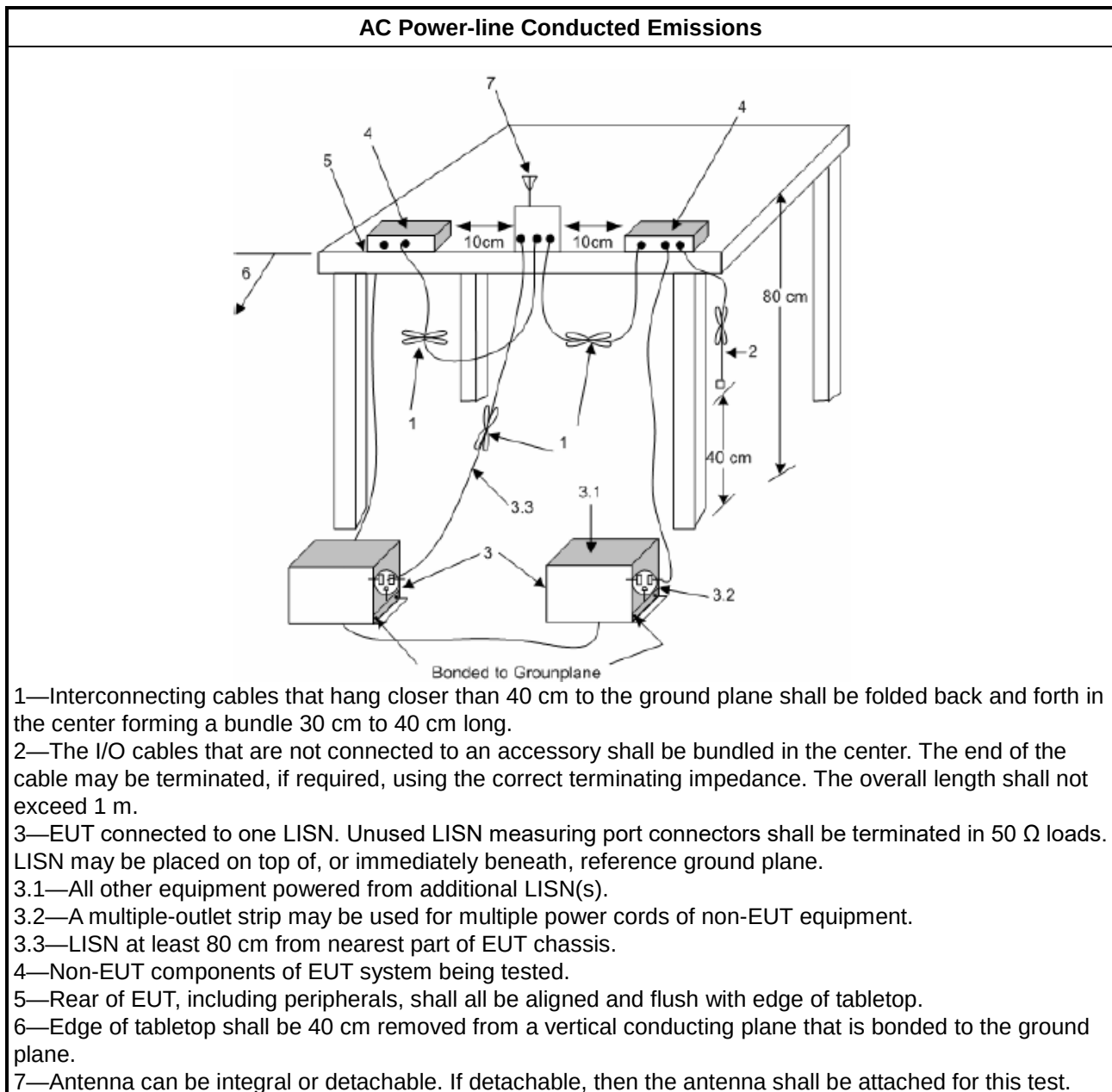
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- Margin = - Limit + (Read Level + LISN Factor + Cable Loss)

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
RLAN 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

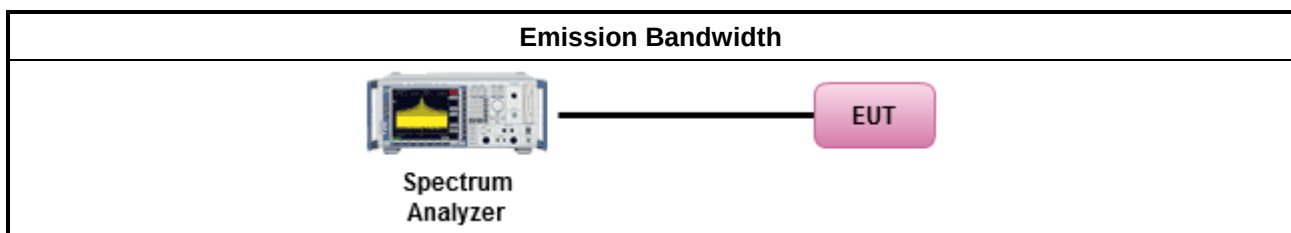
3.2.2 Measuring Instruments

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:	
☒	According to FCC KDB 987594 D02 clause II.C, measurement procedure shall refer to FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



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 very low power device : e.i.r.p < 14 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 very low power device : e.i.r.p < 14 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.
RLAN Devices	
☐	For the 5.925 ~ 7.125 GHz band:
☐	■ For low-power indoor access-points & indoor subordinate devices < 30 dBm .
☐	■ For low-power client devices < 24 dBm.
☐	For the 5.925 ~ 6.875 GHz band:
☐	■ For standard-power access points & fixed client devices < 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 standard client devices < 30 dBm.



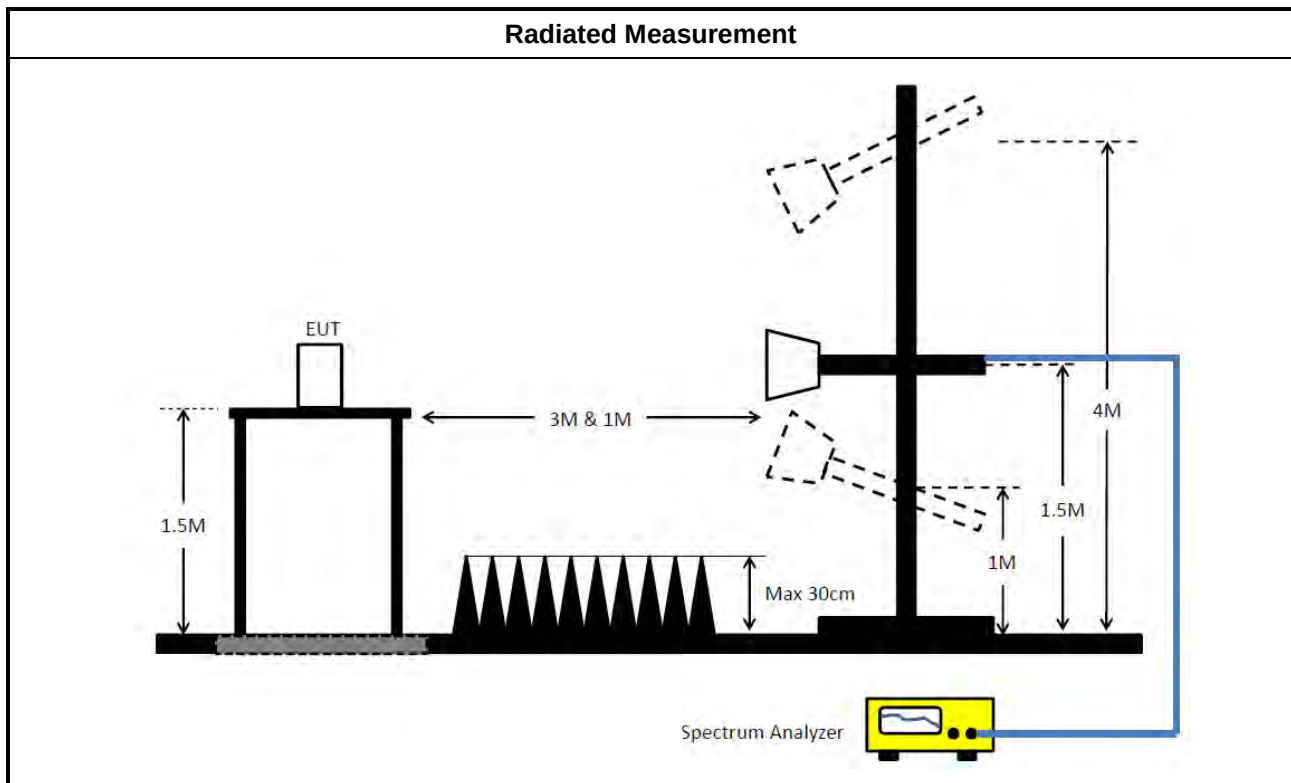
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
According to FCC KDB 987594 D02 clause II.E, the test measurement procedure shall refer to KDB 789033.	
☒	Average over on/off periods with duty factor
	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). Spectrum analyzer setting: RBW/VBW : 1/3MHz ; Detector : RMS ; Trace mode : Average ; Sweep Count 100.
	☐ 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 FCC KDB 789033 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup



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

Refer as Appendix C



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

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

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

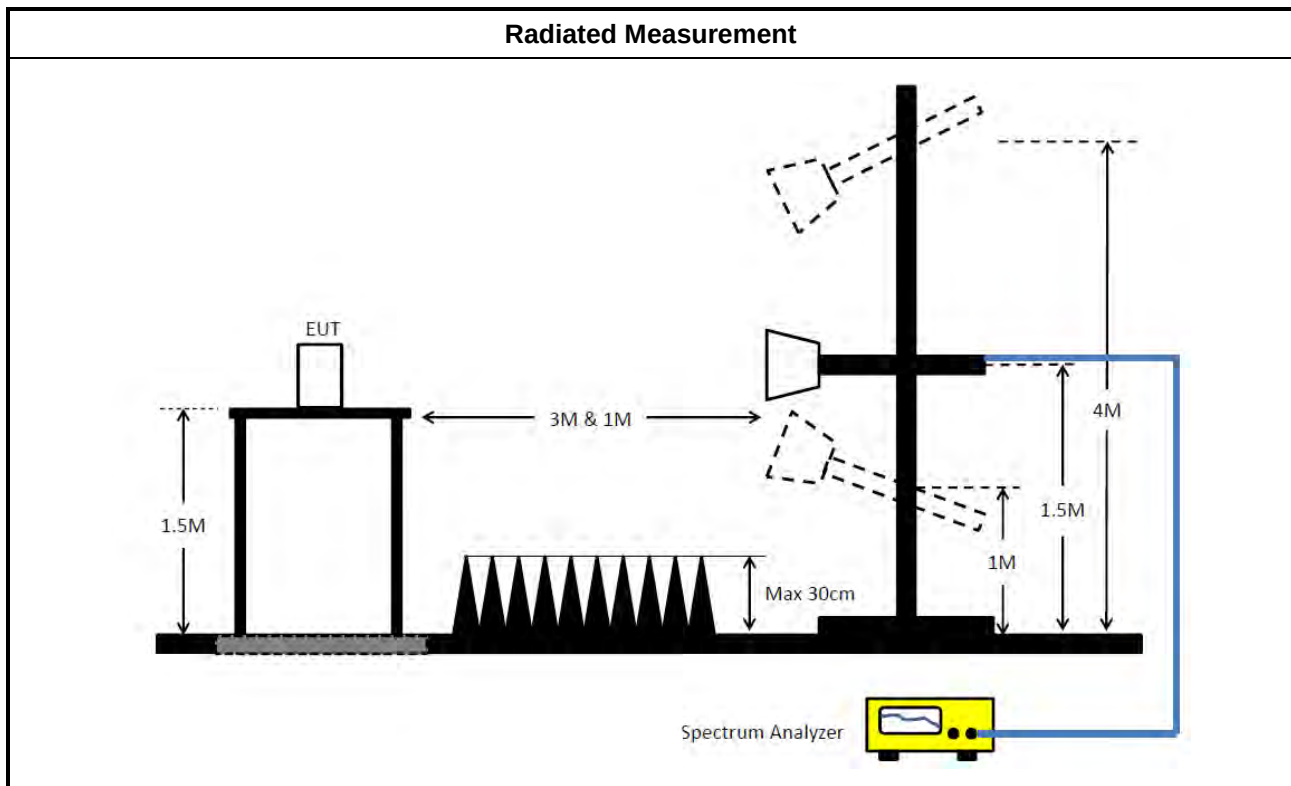
3.4.2 Measuring Instruments

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

**3.4.3 Test Procedures**

Test Method	
According to FCC KDB 987594 D02 clause II.F, the measurement procedure shall refer to KDB 789033. 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, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
☒	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, 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 FCC KDB 789033 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"	
Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	
Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.	

3.4.4 Test Setup



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

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

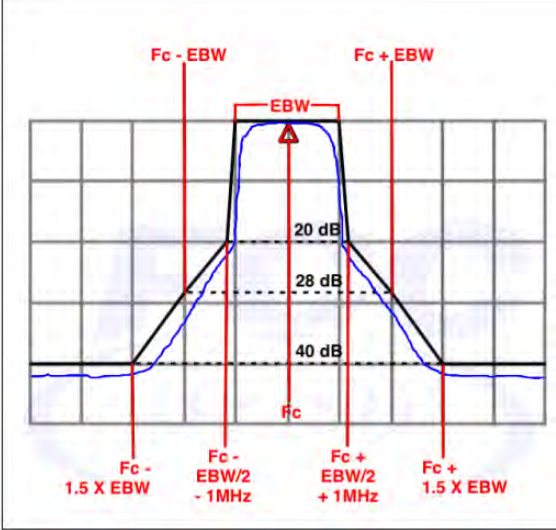
Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
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) = $54\text{dBuV/m at 3m} + 9.54\text{dB} = 63.54\text{dBuV/m at 1m}$.

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) = $68.2\text{dBuV/m at 3m} + 9.54\text{dB} = 77.74\text{dBuV/m at 1m}$. Note 2:-27 dBm EIRP OOBE is measured RMS which is a deviation from the current 15E rules for 5 GHz bands. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

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. 



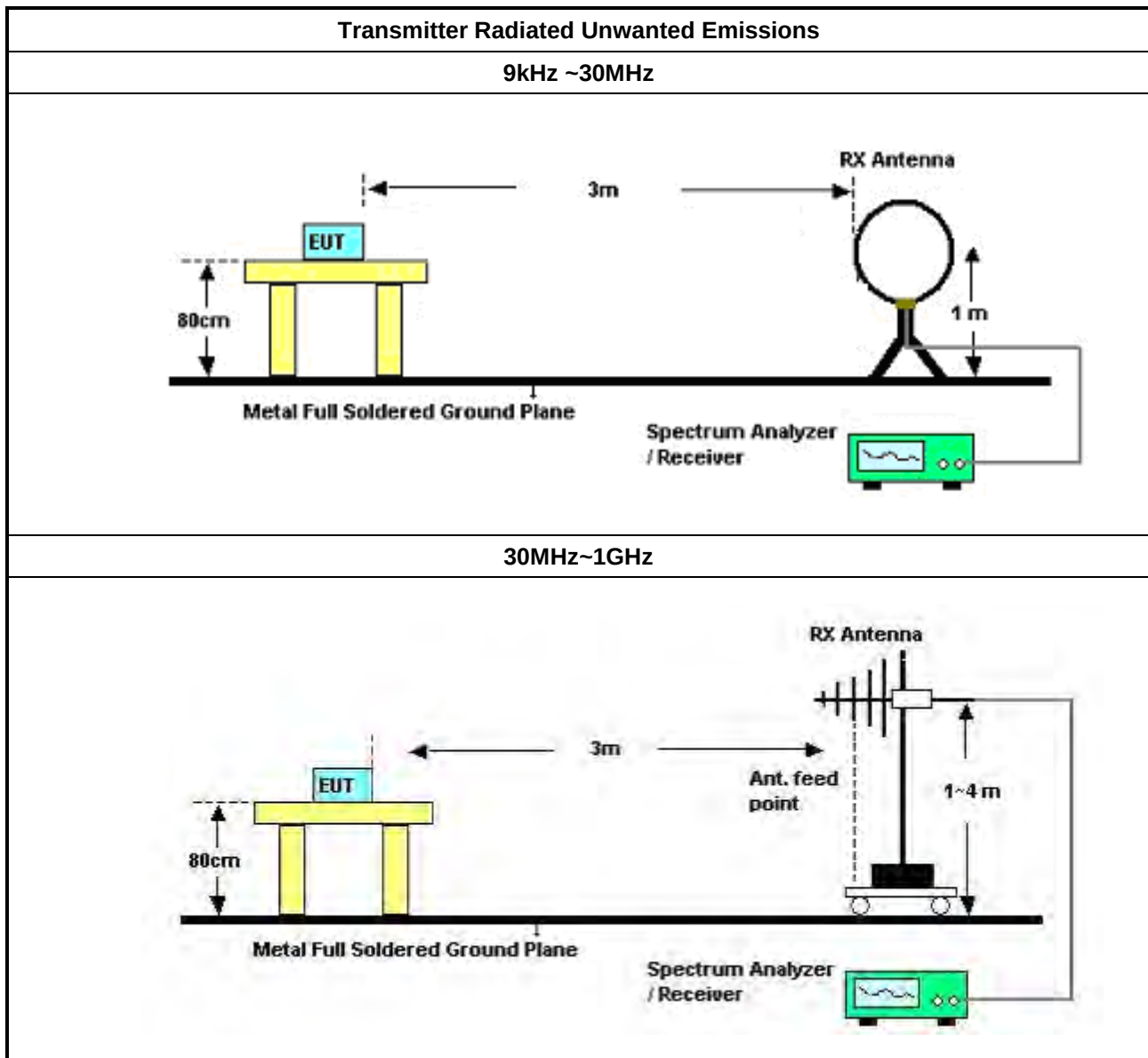
3.5.2 Measuring Instruments

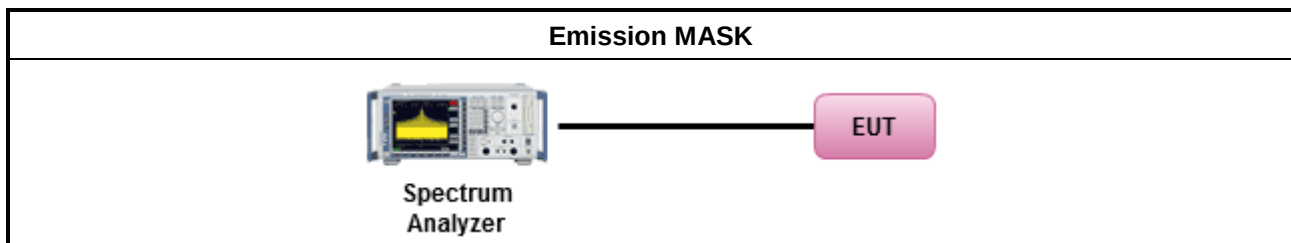
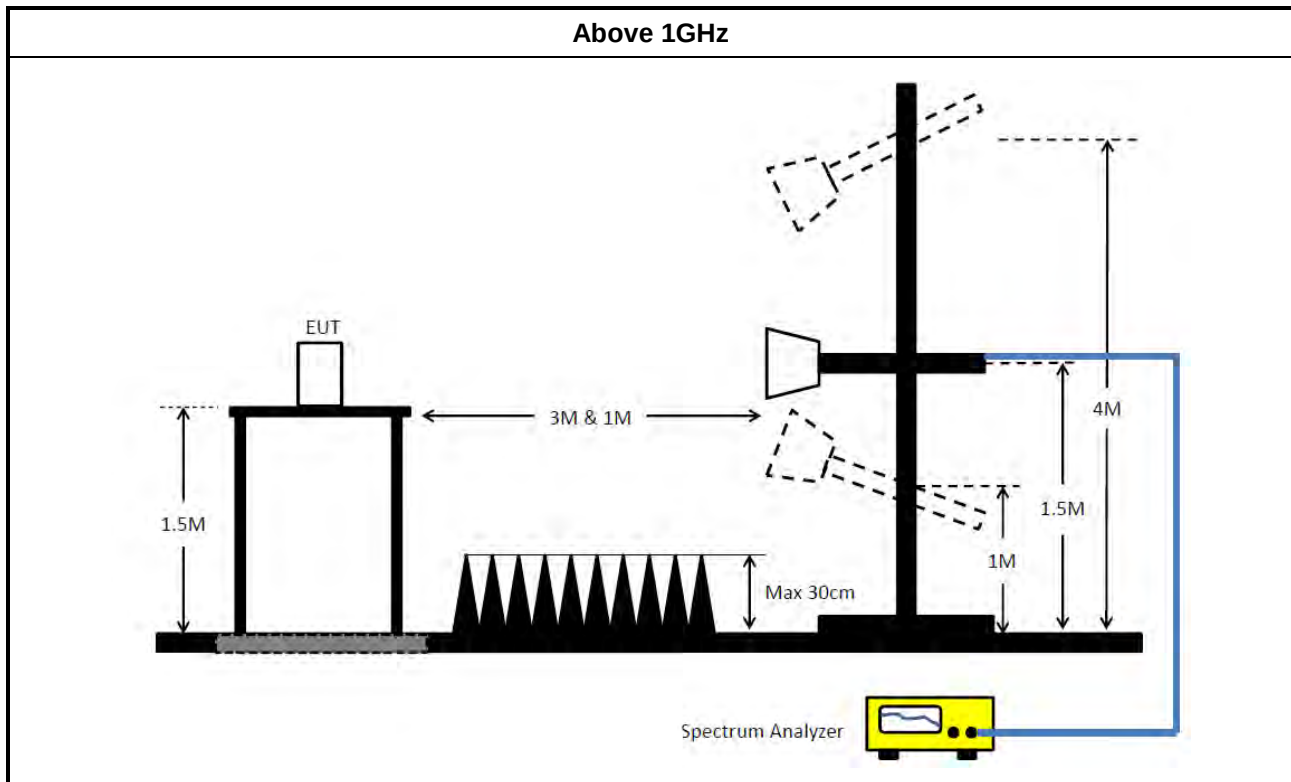
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
According to FCC KDB 987594 D02 II.G. the unwanted emission measurement procedure shall refer to KDB 789300(except emission MASK). 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 FCC 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.	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable)
= Level

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

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.

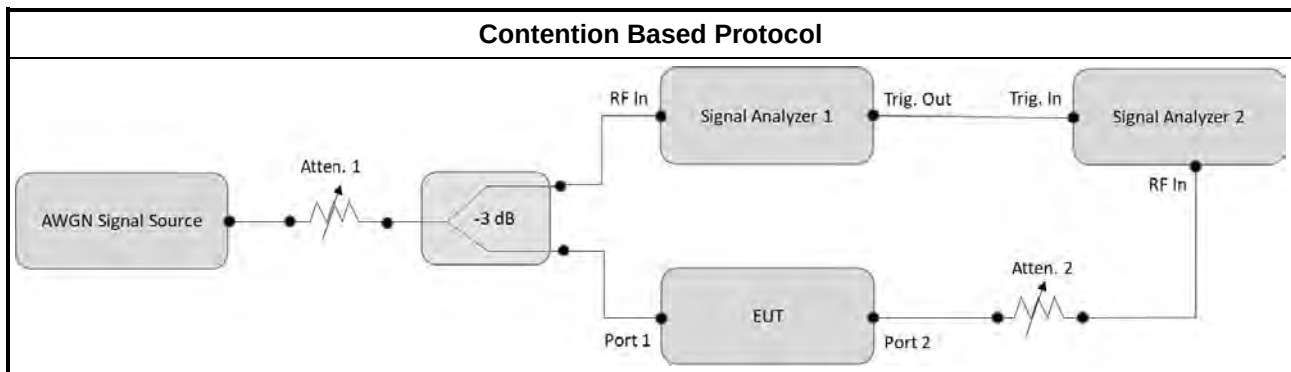
3.6.2 Measuring Instruments

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 FCC 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	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 18, 2023	May 17, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 29, 2023	Dec. 28, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 02, 2023	Aug. 01, 2024	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 24, 2023	Mar. 23, 2024	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 03, 2023	May 02, 2024	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 05, 2023	May 04, 2024	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Oct. 30, 2023	Oct. 29, 2024	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 18, 2023	May 17, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 28, 2023	Nov. 27, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 25, 2023	Mar. 24, 2024	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120 D	BBHA 9120D-1292	1GHz~18GHz	Jul. 31, 2023	Jul. 30, 2024	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 21, 2023	Apr. 20, 2024	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum Analyzer	R&S	FSV40	101025	9kHz ~ 40GHz	Nov. 07, 2023	Nov. 06, 2024	Conducted (DF02-CB)
Signal generator	R&S	SMB100A	181239	1MHz-40GHz	Jan. 08, 2024	Jan. 07, 2025	Conducted (DF02-CB)
Vector Signal Generator	R&S	SMM100A	101894	100KHz ~ 7.5GHz	Oct. 24, 2023	Oct. 23, 2024	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -05	1 ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -06	1 ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -07	1 ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -08	1 ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	Cable-60	1~18GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	Cable-61	1~18GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	Cable-63	1~18GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
100MS/s Digitizer	N.I	USB-5133	F65206	N/A	Mar. 17, 2023	Mar. 16, 2024	Conducted (DF02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.



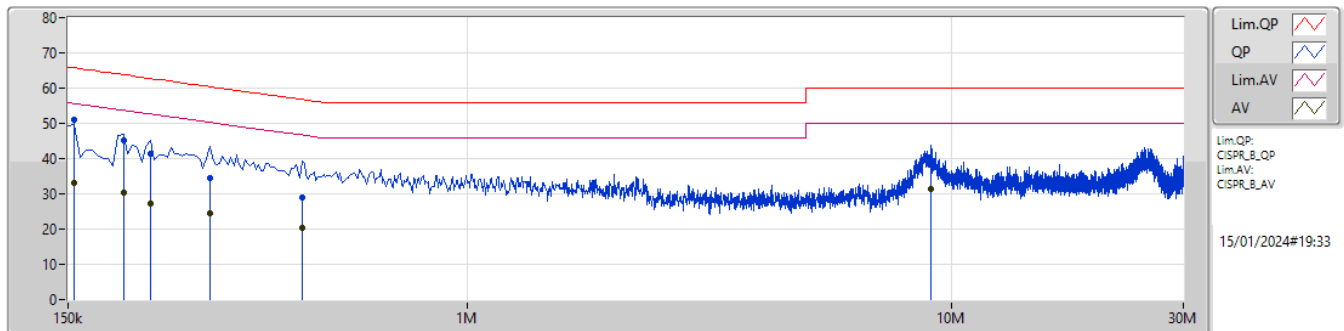
Conducted Emissions at Powerline

Appendix A

Summary

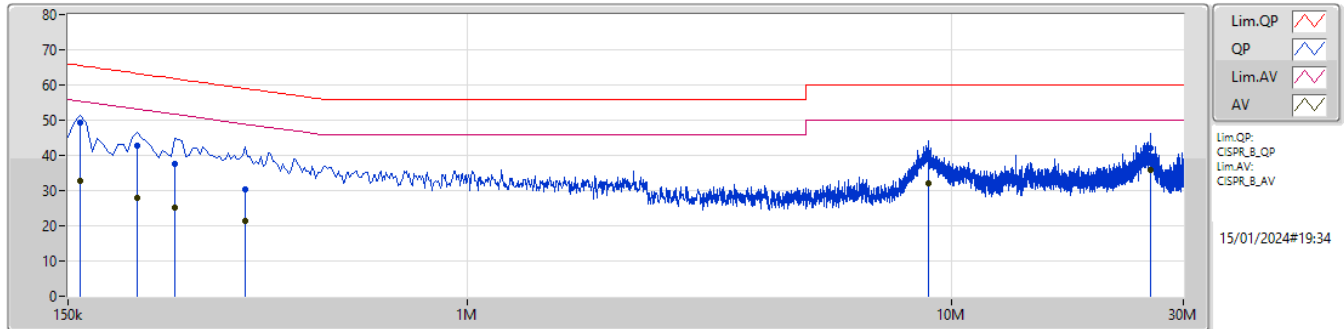
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	25.674M	35.81	50.00	-14.19	Neutral

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	51.02	65.75	-14.73	9.98	Line	"Worst"	41.04	0.09	0.02	9.87						
AV	154.5k	33.19	55.75	-22.56	9.98	Line	-	23.21	0.09	0.02	9.87						
QP	195k	45.21	63.82	-18.61	9.96	Line	-	35.25	0.08	0.02	9.86						
AV	195k	30.32	53.82	-23.50	9.96	Line	-	20.36	0.08	0.02	9.86						
QP	222k	41.33	62.75	-21.42	9.97	Line	-	31.36	0.08	0.02	9.87						
AV	222k	27.33	52.75	-25.42	9.97	Line	-	17.36	0.08	0.02	9.87						
QP	294k	34.37	60.42	-26.05	9.99	Line	-	24.38	0.09	0.02	9.88						
AV	294k	24.58	50.42	-25.84	9.99	Line	-	14.59	0.09	0.02	9.88						
QP	456k	29.11	56.76	-27.65	10.01	Line	-	19.10	0.09	0.02	9.90						
AV	456k	20.35	46.76	-26.41	10.01	Line	-	10.34	0.09	0.02	9.90						
QP	9.069M	38.24	60.00	-21.76	10.32	Line	-	27.92	0.24	0.14	9.94						
AV	9.069M	31.41	50.00	-18.59	10.32	Line	-	21.09	0.24	0.14	9.94						

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	159k	49.36	65.52	-16.16	9.96	Neutral	-	39.40	0.07	0.02	9.87						
AV	159k	32.67	55.52	-22.85	9.96	Neutral	-	22.71	0.07	0.02	9.87						
QP	208.5k	42.68	63.27	-20.59	9.95	Neutral	-	32.73	0.07	0.02	9.86						
AV	208.5k	27.92	53.27	-25.35	9.95	Neutral	-	17.97	0.07	0.02	9.86						
QP	249k	37.72	61.79	-24.07	9.96	Neutral	-	27.76	0.07	0.02	9.87						
AV	249k	25.16	51.79	-26.63	9.96	Neutral	-	15.20	0.07	0.02	9.87						
QP	348k	30.47	59.00	-28.53	9.98	Neutral	-	20.49	0.07	0.02	9.89						
AV	348k	21.37	49.00	-27.63	9.98	Neutral	-	11.39	0.07	0.02	9.89						
QP	8.93M	38.91	60.00	-21.09	10.30	Neutral	-	28.61	0.22	0.14	9.94						
AV	8.93M	32.05	50.00	-17.95	10.30	Neutral	-	21.75	0.22	0.14	9.94						
QP	25.674M	42.24	60.00	-17.76	10.68	Neutral	-	31.56	0.36	0.26	10.06						
AV	25.674M	35.81	50.00	-14.19	10.68	Neutral	"Worst"	25.13	0.36	0.26	10.06						

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)_2TX	22.11M	19.035M	19M0D1D	21.23M	18.971M
802.11be EHT40_Nss1,(MCS0)_2TX	43.01M	37.948M	37M9D1D	41.25M	37.825M
802.11be EHT80_Nss1,(MCS0)_2TX	88.44M	77.985M	78M0D1D	80.96M	76.741M
802.11be EHT160_Nss1,(MCS0)_2TX	163.68M	157.544M	158MD1D	161.92M	156.178M
802.11be EHT320_Nss1,(MCS0)_2TX	469.04M	316.278M	316MD1D	323.84M	314.175M
6.425-6.525GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	22.165M	19.103M	19M1D1D	20.9M	18.994M
802.11be EHT40_Nss1,(MCS0)_2TX	43.12M	37.982M	38M0D1D	40.48M	37.845M
802.11be EHT80_Nss1,(MCS0)_2TX	84.04M	78.009M	78M0D1D	80.52M	77.688M
802.11be EHT160_Nss1,(MCS0)_2TX	164.12M	156.803M	157MD1D	162.8M	156.731M
802.11be EHT320_Nss1,(MCS0)_2TX	667.04M	319.033M	319MD1D	466.4M	315.905M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	22.605M	19.132M	19M1D1D	21.285M	18.983M
802.11be EHT40_Nss1,(MCS0)_2TX	43.01M	38.213M	38M2D1D	40.37M	37.905M
802.11be EHT80_Nss1,(MCS0)_2TX	86.9M	77.8M	77M8D1D	80.52M	77.309M
802.11be EHT160_Nss1,(MCS0)_2TX	168.96M	157.287M	157MD1D	162.36M	156.053M
802.11be EHT320_Nss1,(MCS0)_2TX	335.28M	315.572M	316MD1D	323.84M	311.533M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	22.605M	19.118M	19M1D1D	20.68M	18.989M
802.11be EHT40_Nss1,(MCS0)_2TX	42.46M	38.145M	38M1D1D	41.03M	37.826M
802.11be EHT80_Nss1,(MCS0)_2TX	91.52M	77.932M	77M9D1D	83.16M	77.301M
802.11be EHT160_Nss1,(MCS0)_2TX	162.8M	156.86M	157MD1D	162.36M	155.801M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.285M	19.002M	22.11M	18.994M
6195MHz	Pass	Inf	21.89M	19.026M	22.11M	19.035M
6415MHz	Pass	Inf	21.23M	19.012M	21.285M	18.971M
6435MHz	Pass	Inf	20.9M	19.061M	21.34M	19.032M
6475MHz	Pass	Inf	21.23M	19.014M	21.505M	18.994M
6515MHz	Pass	Inf	22.165M	19.103M	20.955M	19.003M
6535MHz	Pass	Inf	22.605M	19.021M	21.505M	18.983M
6695MHz	Pass	Inf	21.505M	19.056M	22.33M	18.989M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	21.285M	19.025M	21.835M	19.132M
6895MHz	Pass	Inf	22.605M	19.016M	21.835M	19.055M
6995MHz	Pass	Inf	22M	19.018M	21.505M	19.048M
7095MHz	Pass	Inf	20.68M	19.027M	22.605M	19.118M
7115MHz	Pass	Inf	21.89M	18.989M	21.395M	19.014M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	43.01M	37.893M	42.79M	37.852M
6205MHz	Pass	Inf	41.36M	37.885M	41.69M	37.942M
6405MHz	Pass	Inf	41.47M	37.825M	41.25M	37.948M
6445MHz	Pass	Inf	42.02M	37.901M	41.25M	37.955M
6485MHz	Pass	Inf	41.47M	37.845M	40.48M	37.926M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	43.12M	37.923M	42.35M	37.982M
6565MHz	Pass	Inf	41.8M	37.925M	43.01M	38.114M
6685MHz	Pass	Inf	40.48M	37.952M	40.37M	37.994M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	42.9M	38.213M	41.25M	37.905M
6925MHz	Pass	Inf	42.46M	38.035M	41.91M	38.126M
7005MHz	Pass	Inf	41.58M	38.145M	42.13M	37.826M
7085MHz	Pass	Inf	41.58M	37.994M	41.03M	37.84M
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	83.16M	76.741M	88.44M	77.223M
6225MHz	Pass	Inf	83.38M	77.52M	87.12M	77.985M
6385MHz	Pass	Inf	80.96M	77.853M	83.6M	77.588M
6465MHz	Pass	Inf	82.94M	77.75M	82.06M	77.872M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	84.04M	78.009M	80.52M	77.688M
6625MHz	Pass	Inf	85.58M	77.312M	85.8M	77.666M
6705MHz	Pass	Inf	86.9M	77.707M	84.04M	77.405M
6785MHz	Pass	Inf	80.52M	77.64M	86.46M	77.514M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	86.24M	77.8M	84.04M	77.309M
6945MHz	Pass	Inf	91.52M	77.606M	84.04M	77.932M
7025MHz	Pass	Inf	83.6M	77.301M	83.16M	77.45M
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	162.36M	156.562M	161.92M	157.544M
6185MHz	Pass	Inf	162.36M	156.178M	163.68M	156.688M
6345MHz	Pass	Inf	161.92M	157.157M	161.92M	156.992M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	164.12M	156.803M	162.8M	156.731M
6665MHz	Pass	Inf	168.96M	156.852M	163.68M	157.287M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	162.36M	157.199M	163.24M	156.053M
6985MHz	Pass	Inf	162.8M	155.801M	162.36M	156.86M
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	323.84M	314.466M	323.84M	314.175M
6265MHz	Pass	Inf	469.04M	316.128M	418M	315.308M
6425MHz Straddle 5.925-6.425GHz	Pass	Inf	332.64M	316.051M	420.64M	316.278M
6585MHz	Pass	Inf	466.4M	315.905M	667.04M	319.033M
6745MHz Straddle 6.525-6.875GHz	Pass	Inf	324.72M	311.533M	323.84M	312.165M
6905MHz	Pass	Inf	335.28M	315.281M	330M	315.572M

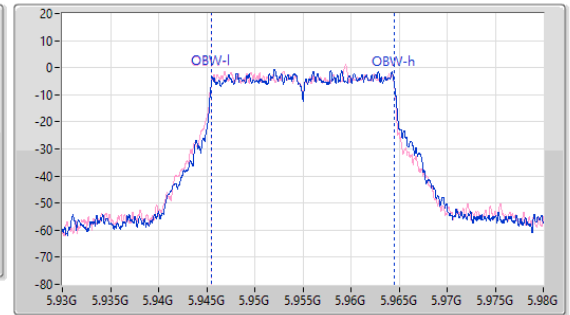
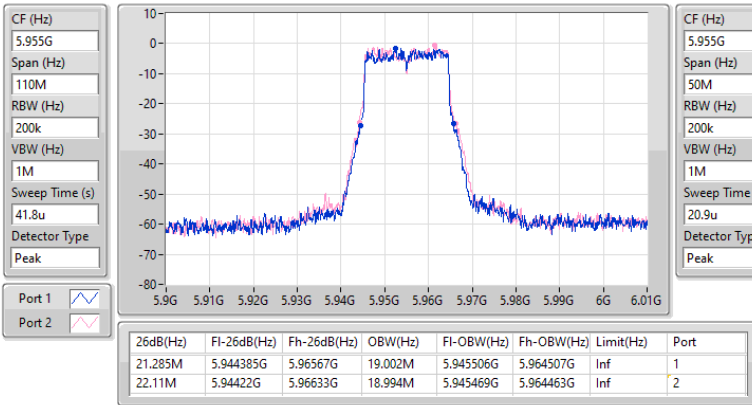
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

5955MHz

28/12/2023

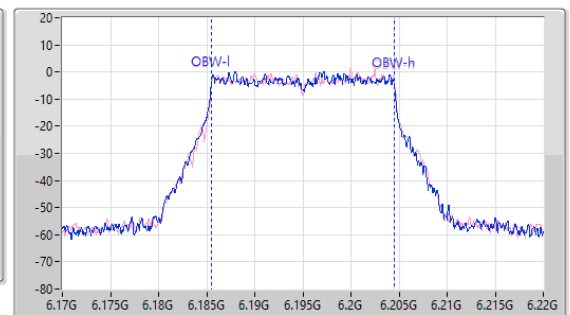
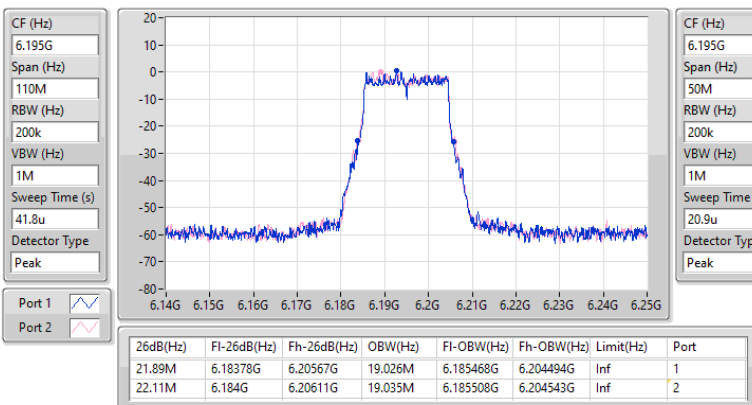


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6195MHz

28/12/2023

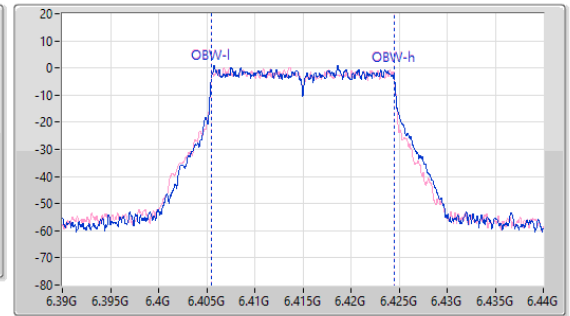
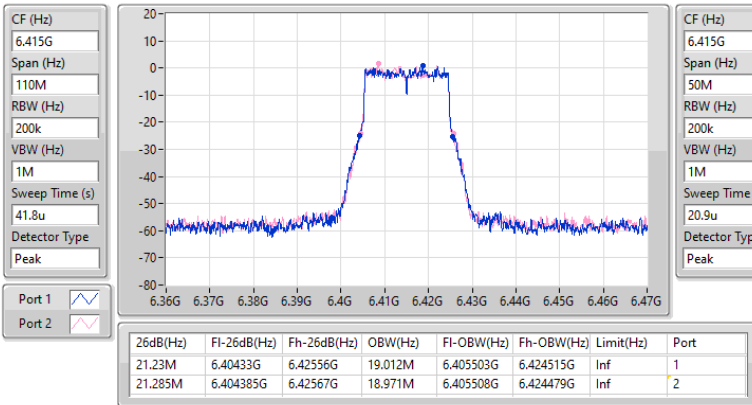


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6415MHz

28/12/2023

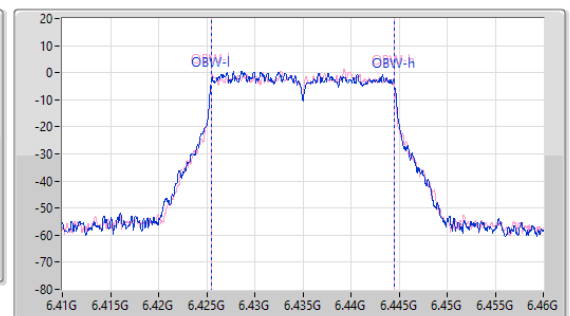
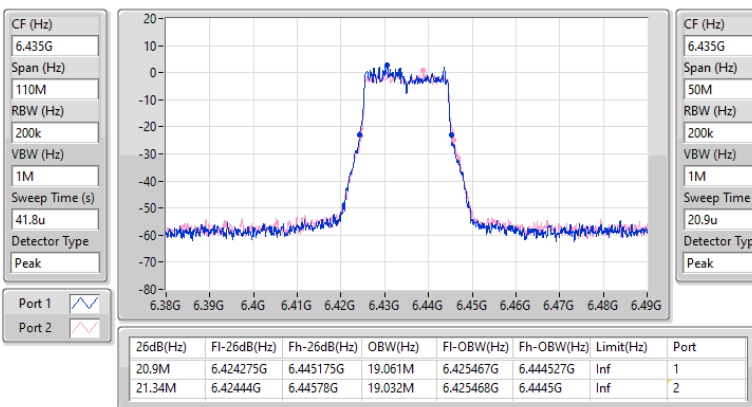


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6435MHz

28/12/2023

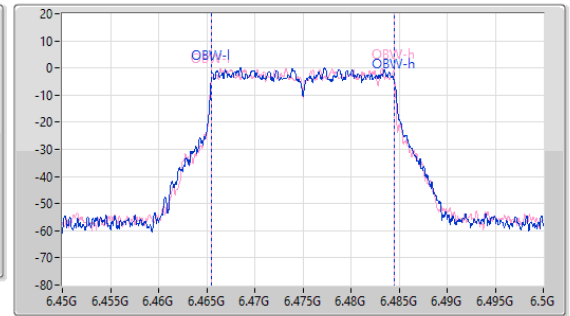
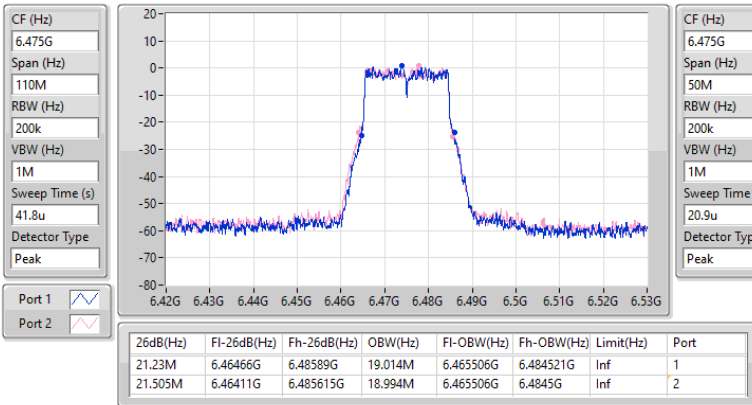


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6475MHz

28/12/2023

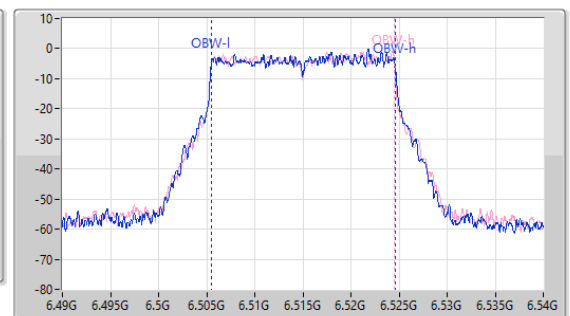
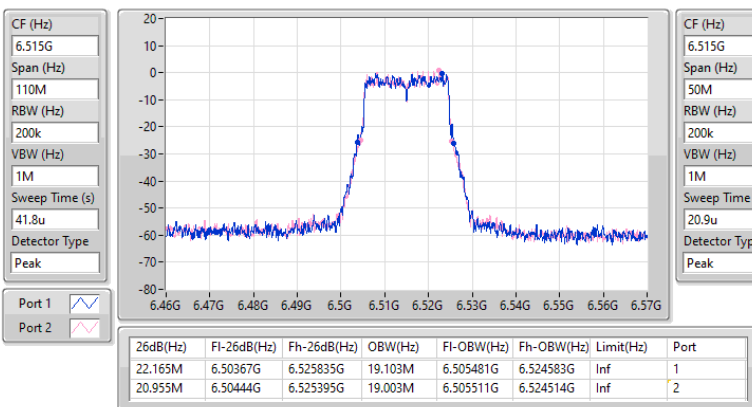


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6515MHz

28/12/2023

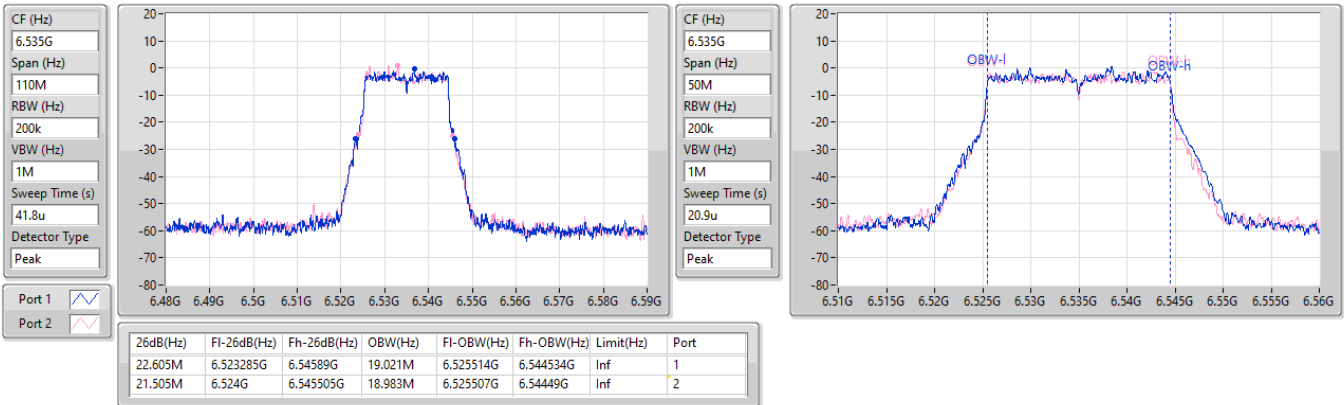


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6535MHz

28/12/2023

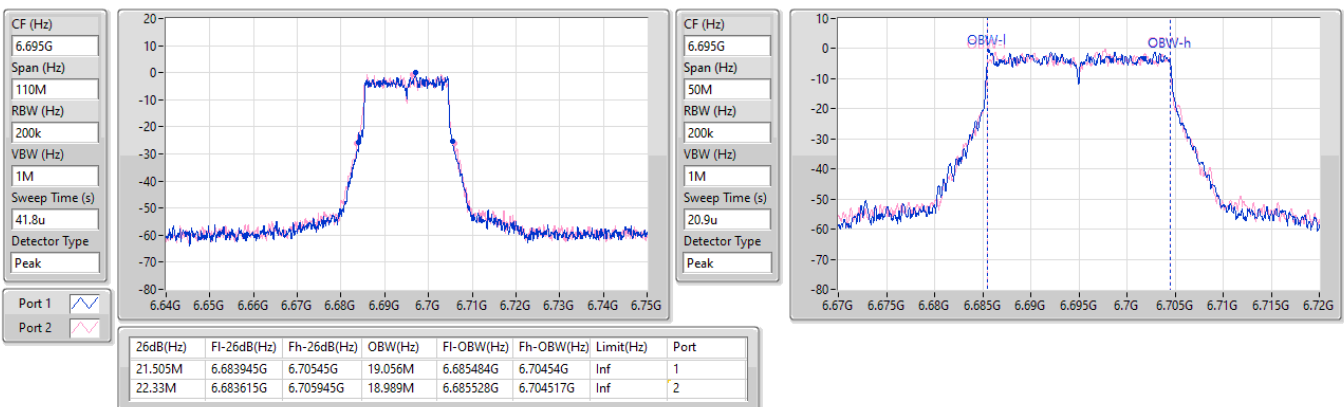


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6695MHz

28/12/2023

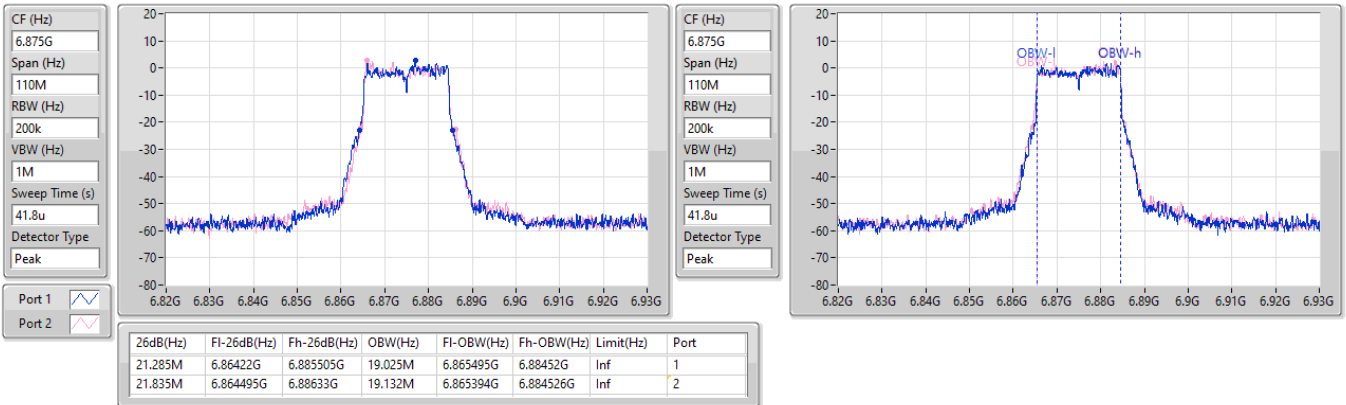


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6875MHz Straddle 6.525-6.875GHz

28/12/2023

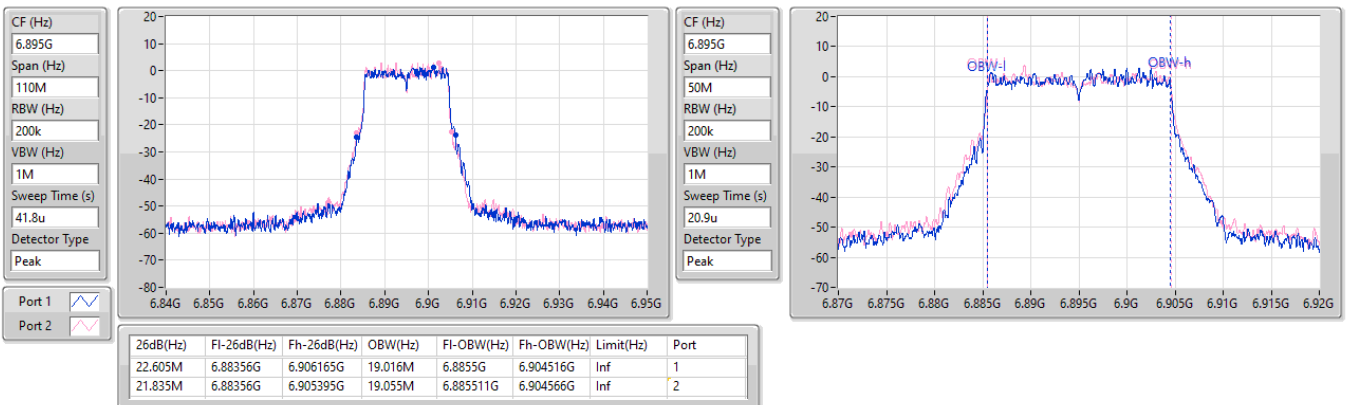


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6895MHz

28/12/2023

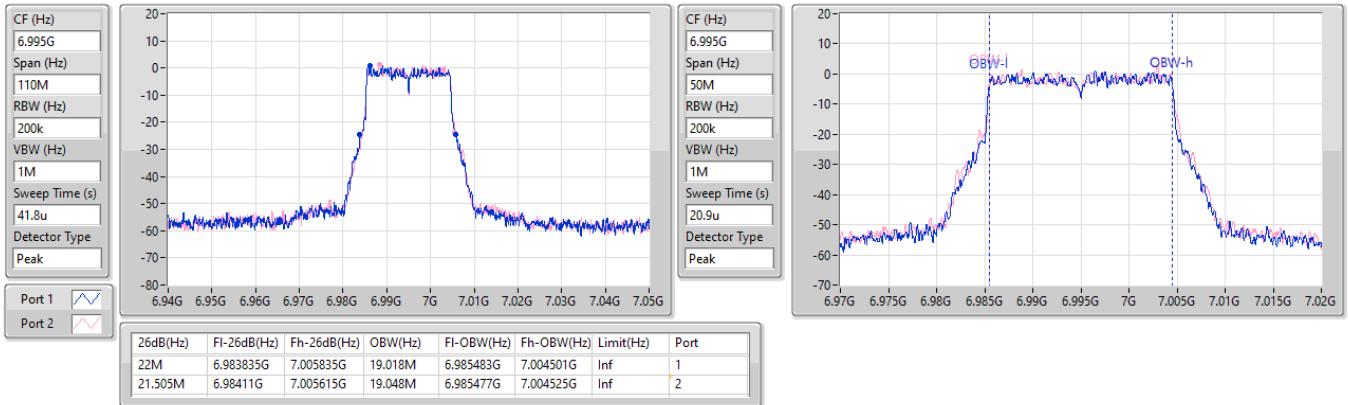


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6995MHz

28/12/2023

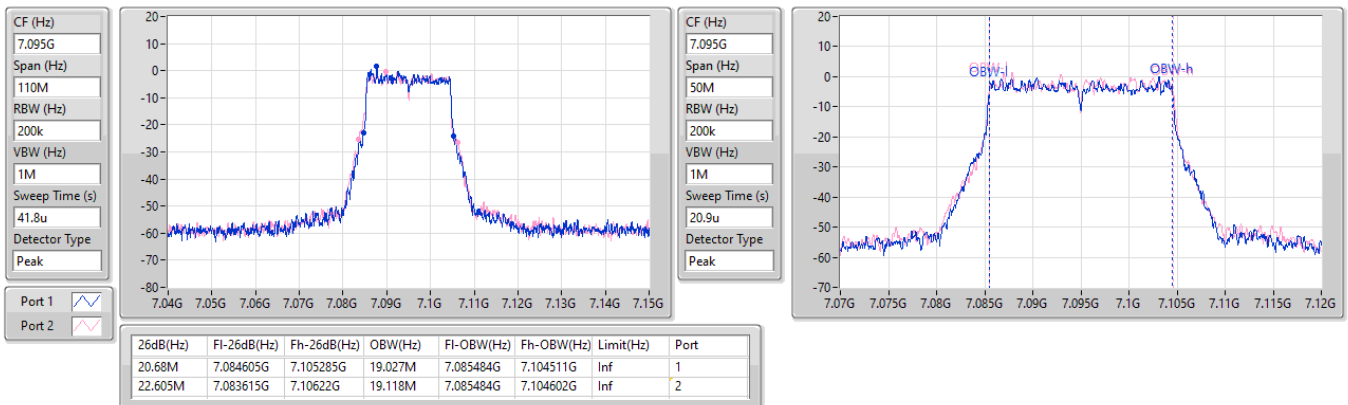


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

7095MHz

28/12/2023

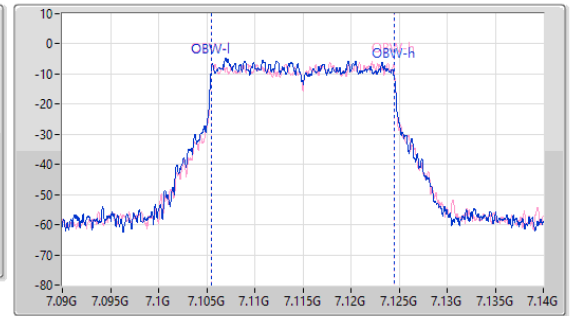
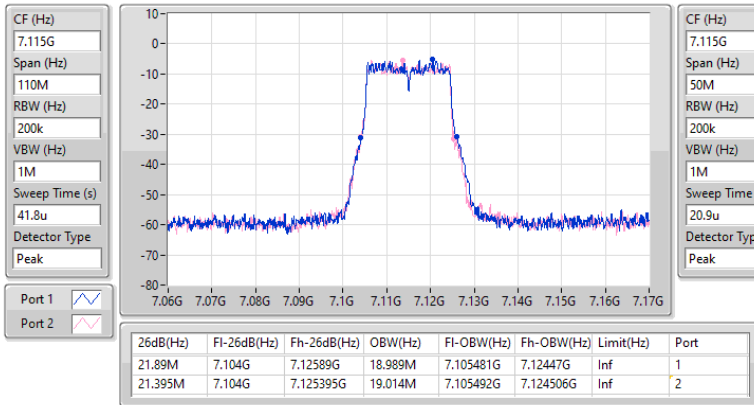


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

7115MHz

28/12/2023

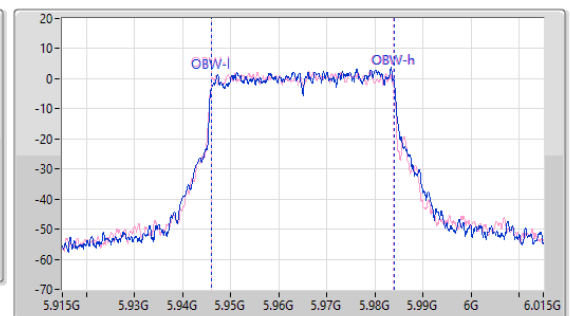
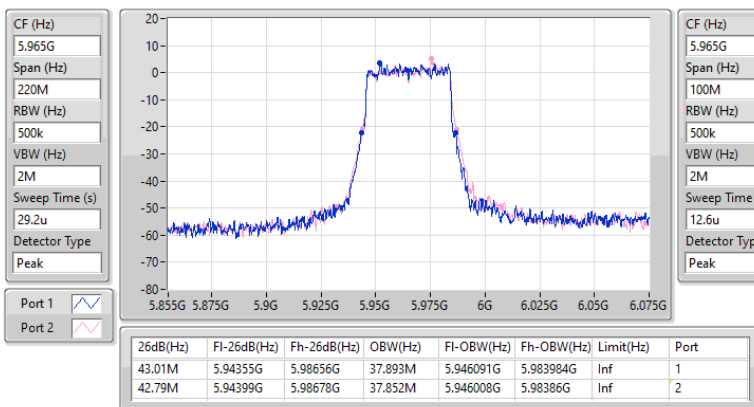


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5965MHz

28/12/2023

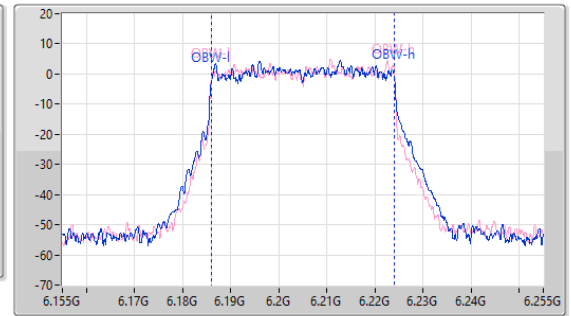
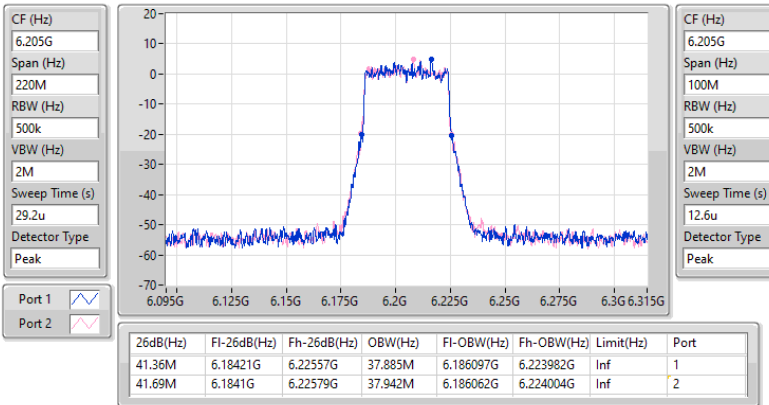


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6205MHz

28/12/2023

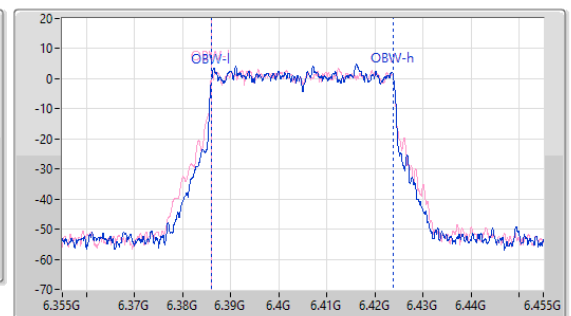
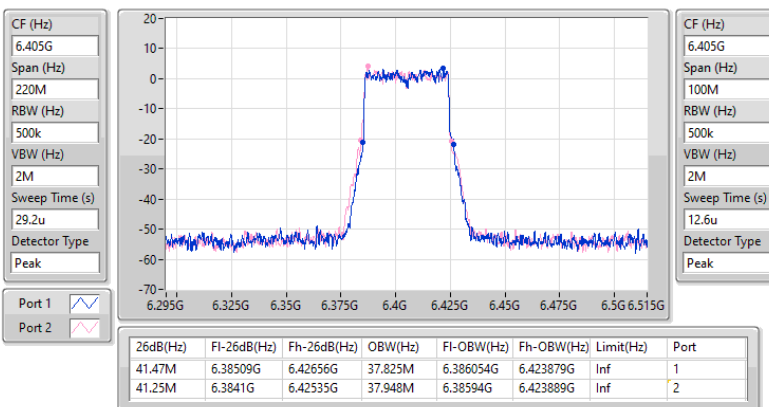


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6405MHz

28/12/2023

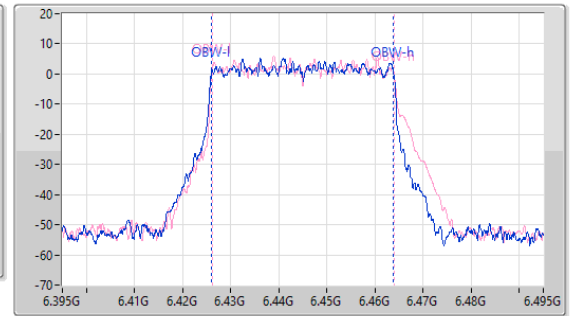
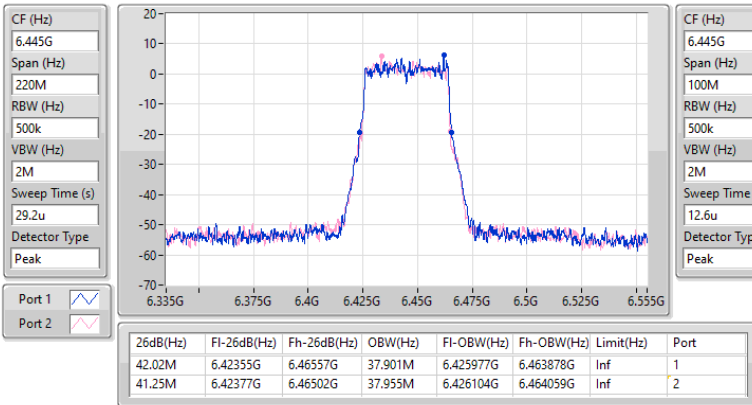


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6445MHz

28/12/2023

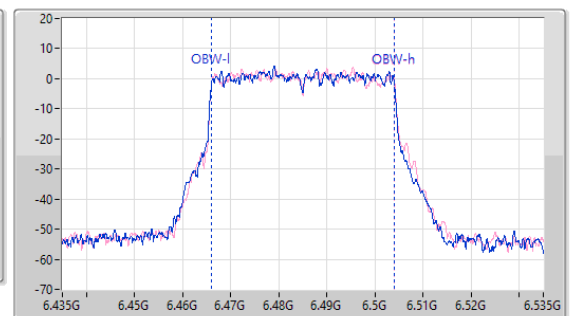
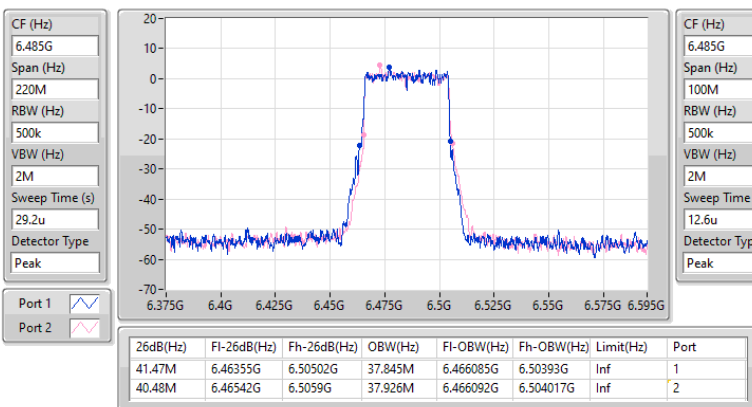


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6485MHz

28/12/2023

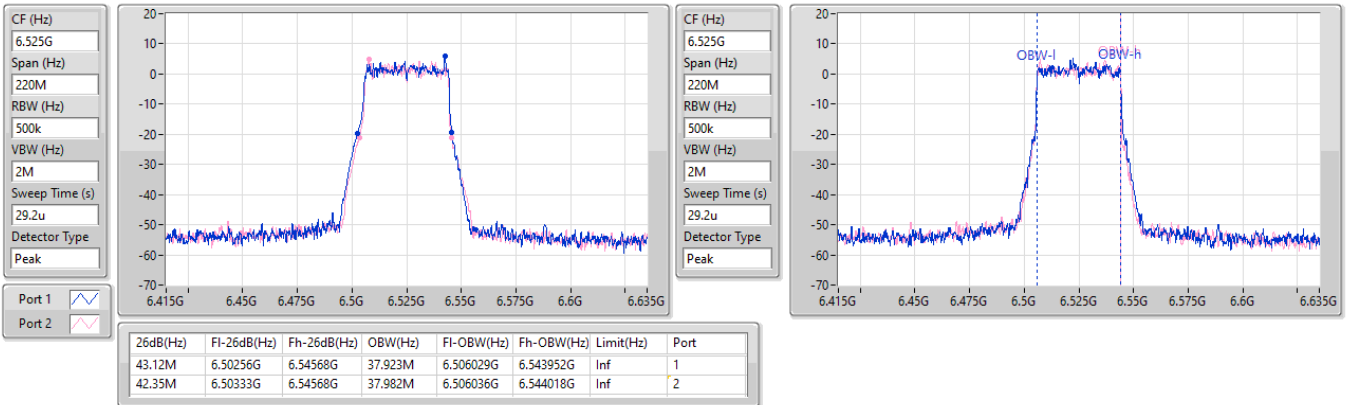


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6525MHz Straddle 6.425-6.525GHz

28/12/2023

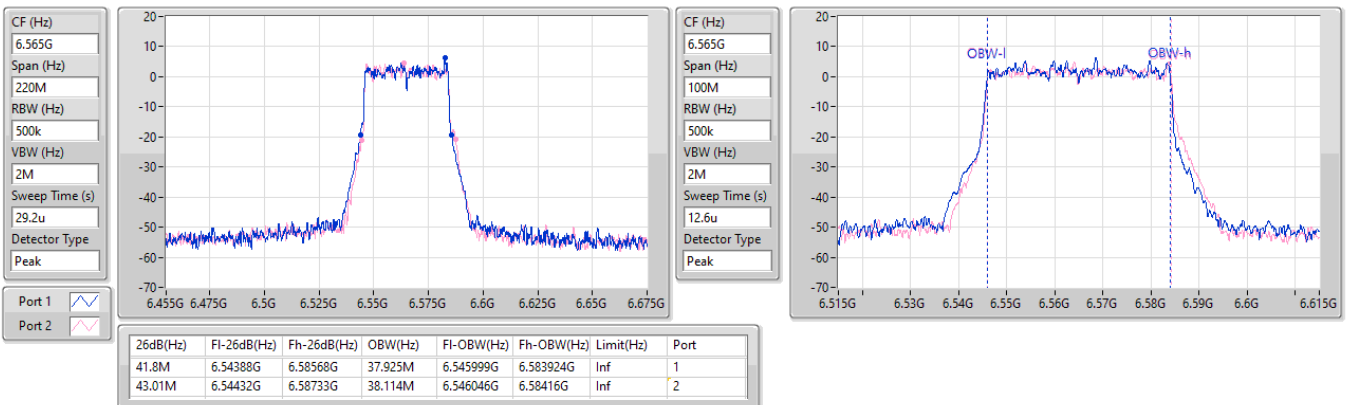


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6565MHz

28/12/2023

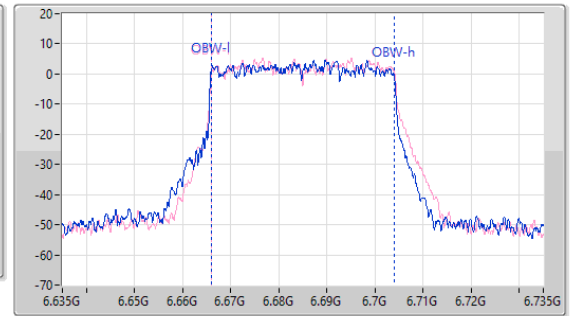
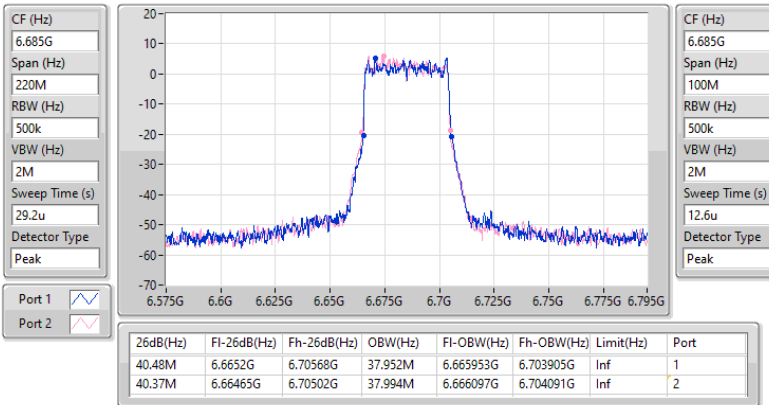


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6685MHz

28/12/2023

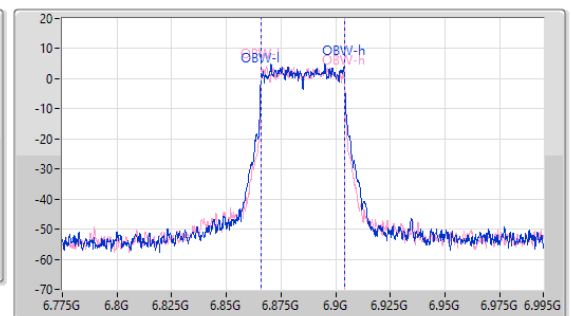
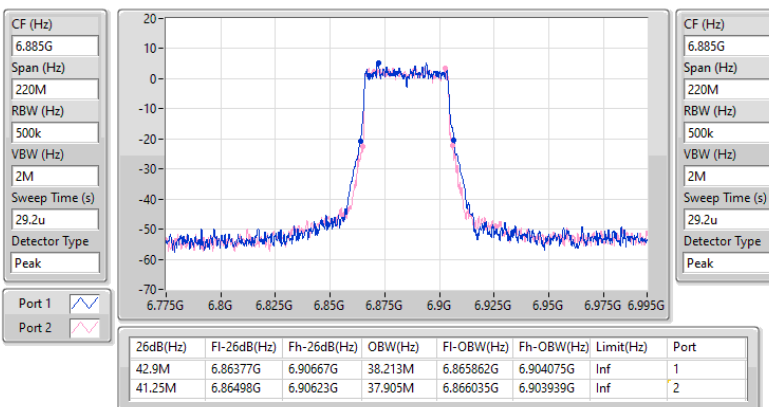


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6885MHz Straddle 6.525-6.875GHz

28/12/2023

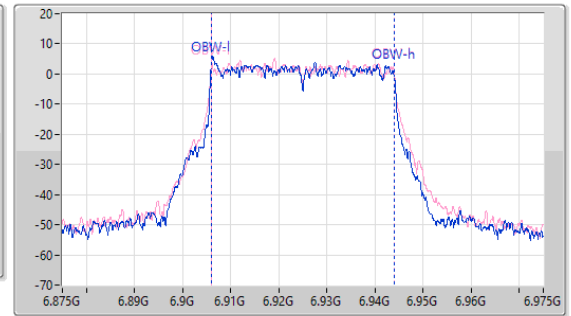
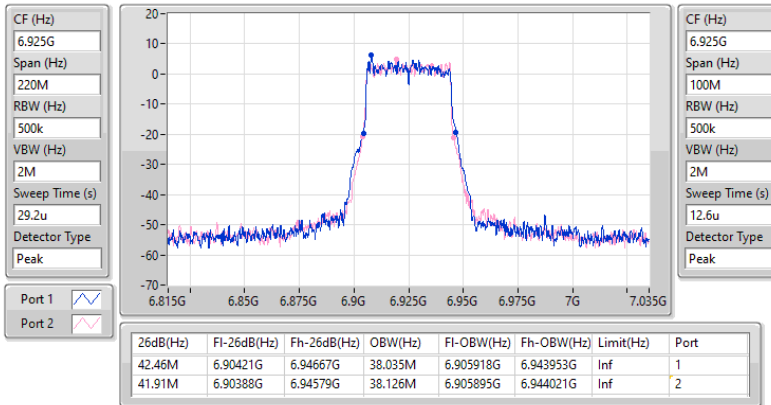


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6925MHz

28/12/2023

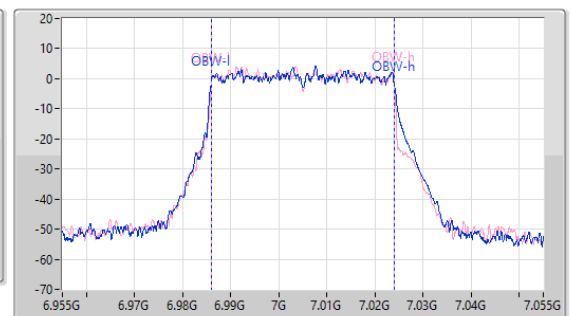
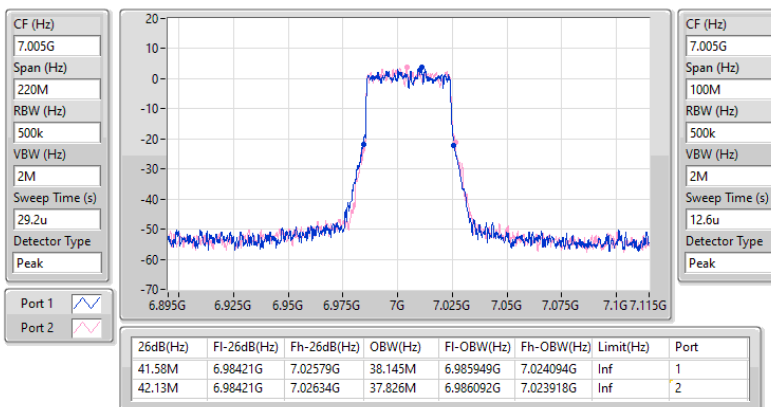


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

7005MHz

28/12/2023

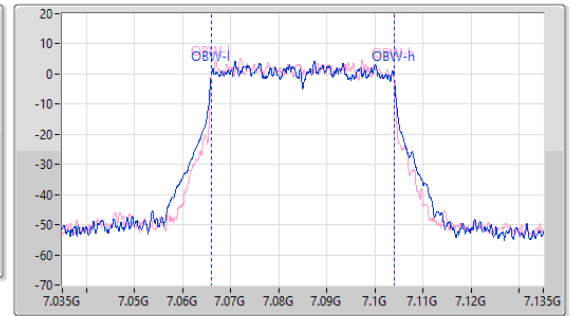
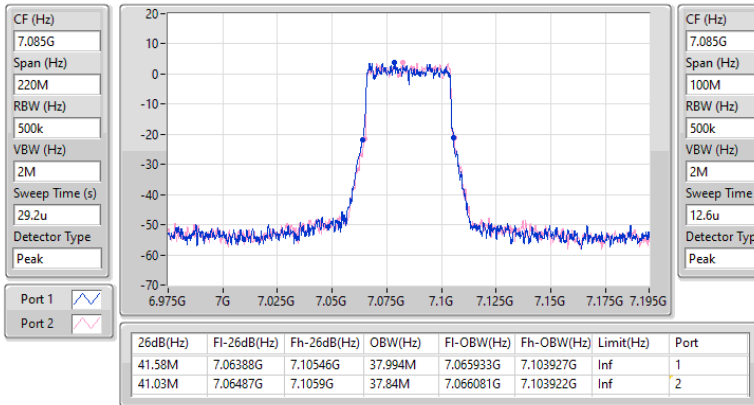


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

7085MHz

28/12/2023

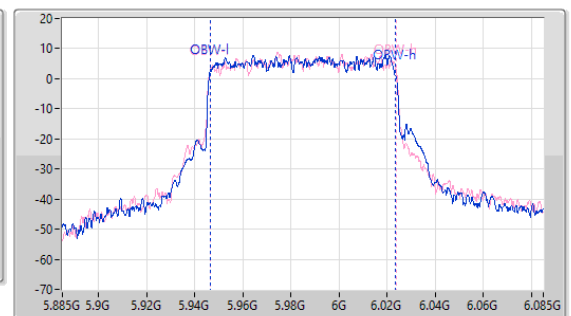
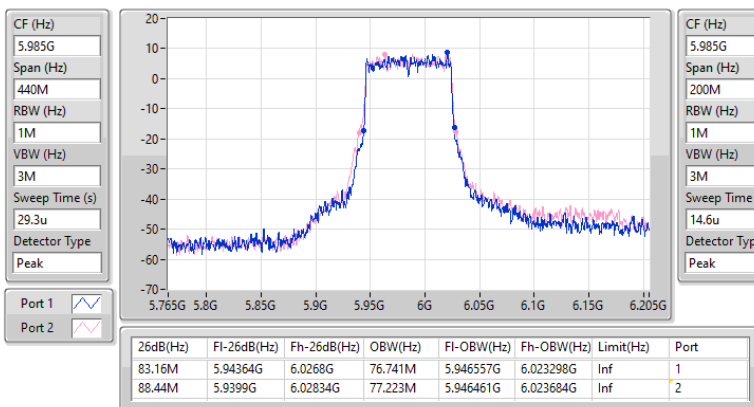


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5985MHz

28/12/2023

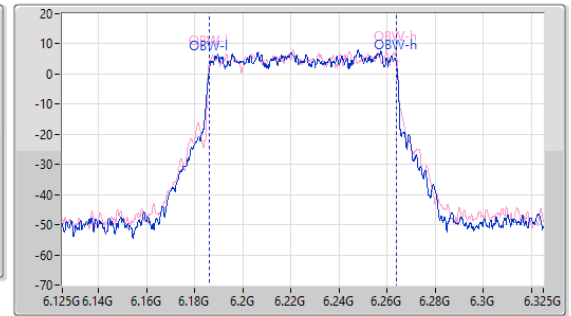
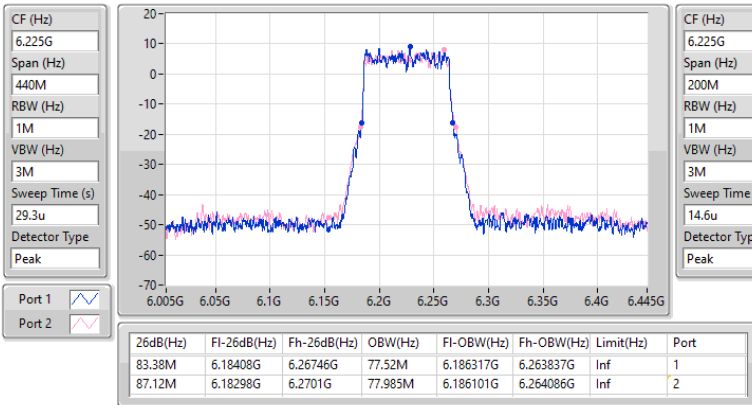


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6225MHz

28/12/2023

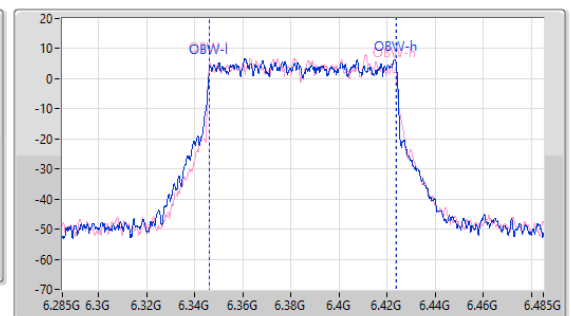
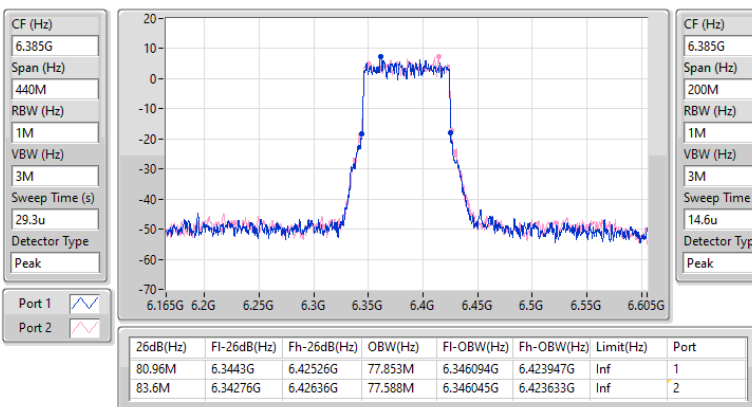


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6385MHz

28/12/2023

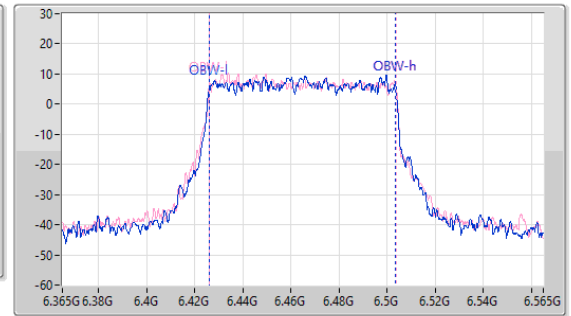
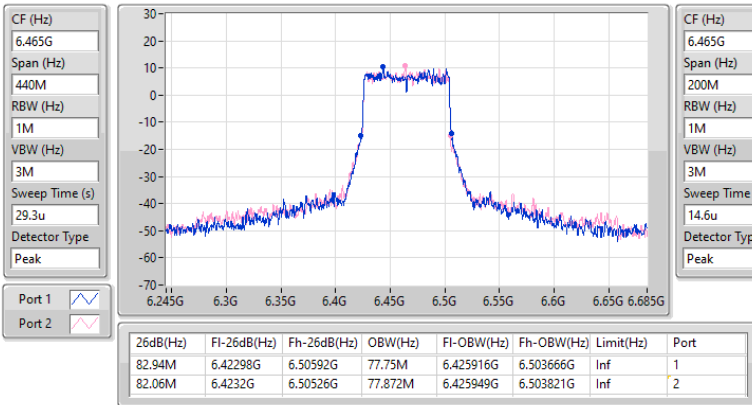


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6465MHz

28/12/2023

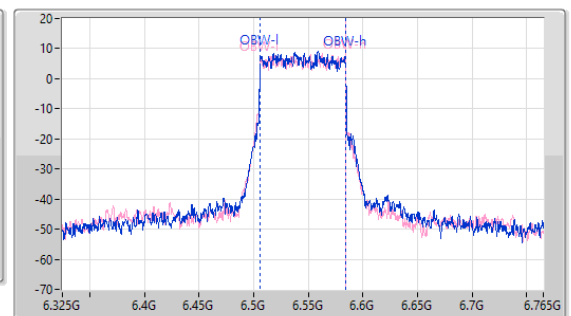
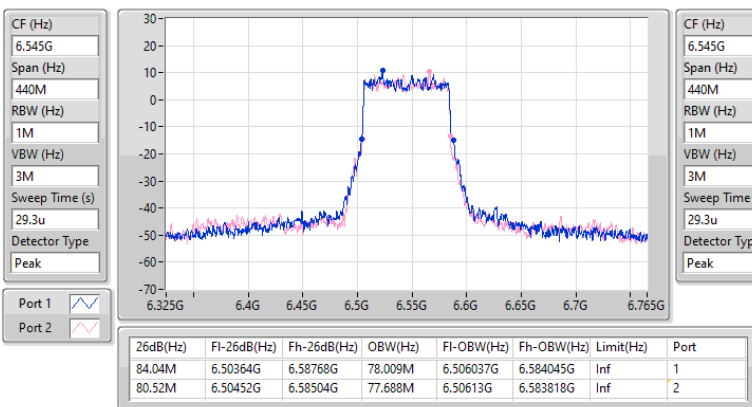


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6545MHz Straddle 6.425-6.525GHz

28/12/2023

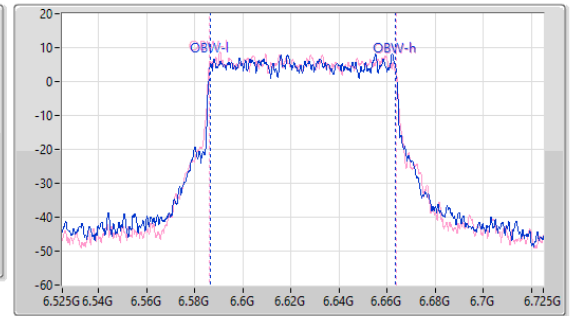
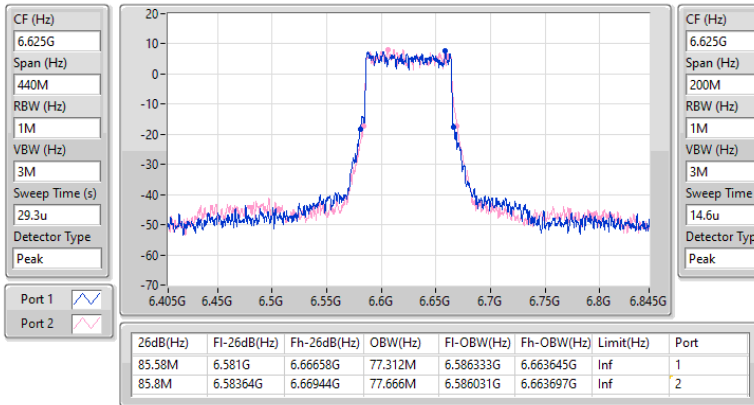


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6625MHz

28/12/2023

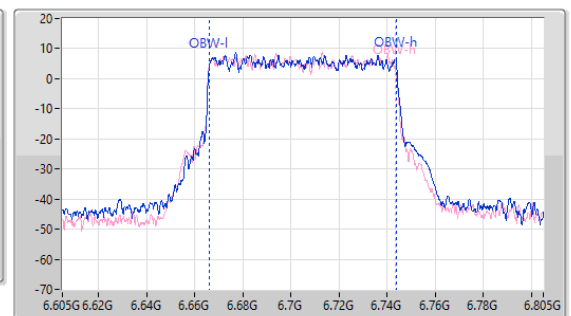
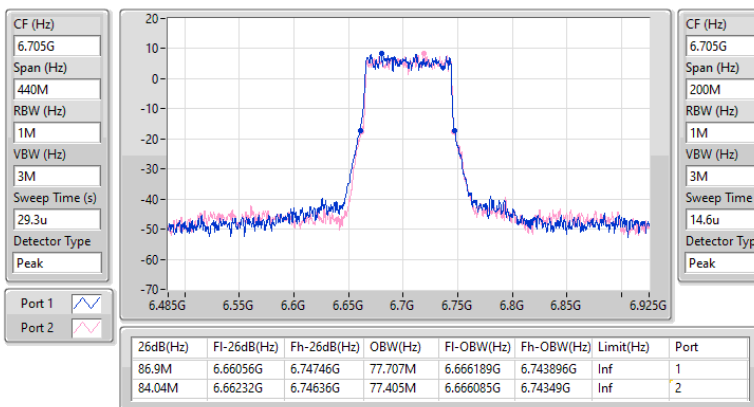


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6705MHz

28/12/2023

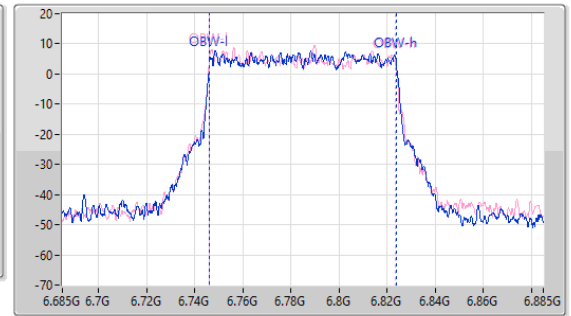
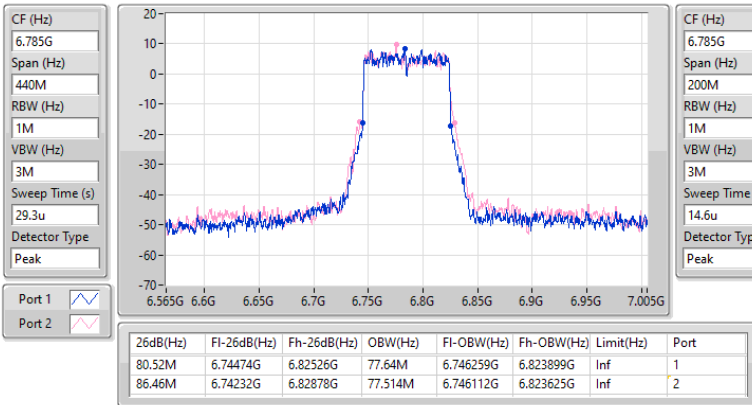


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6785MHz

28/12/2023

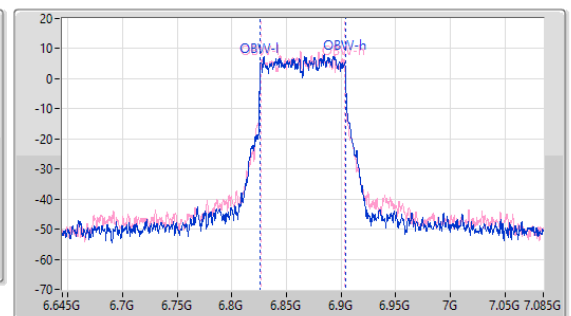
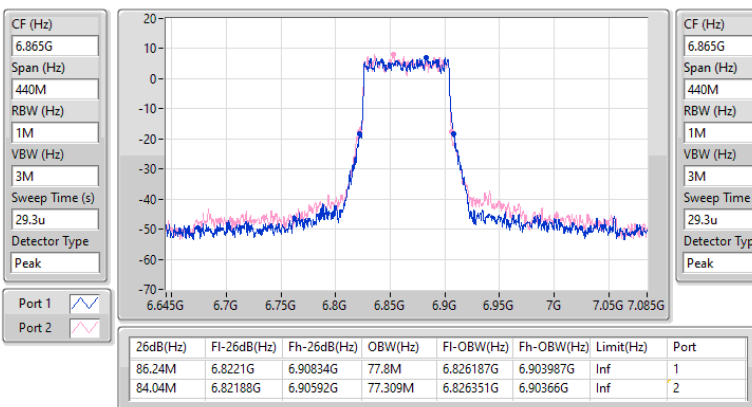


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6865MHz Straddle 6.525-6.875GHz

28/12/2023

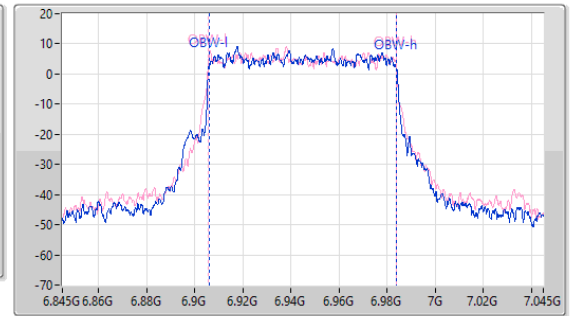
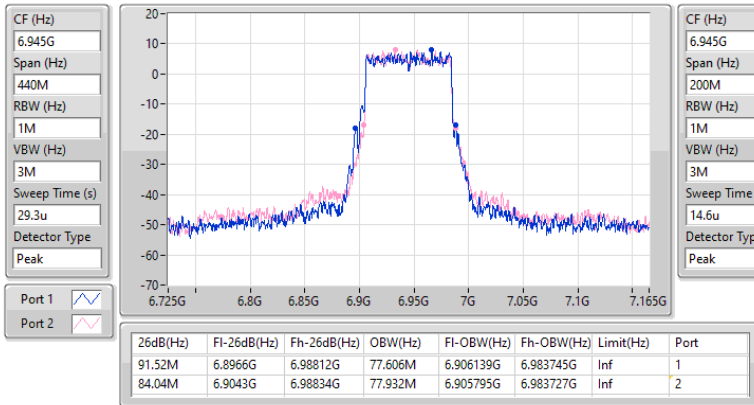


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6945MHz

28/12/2023

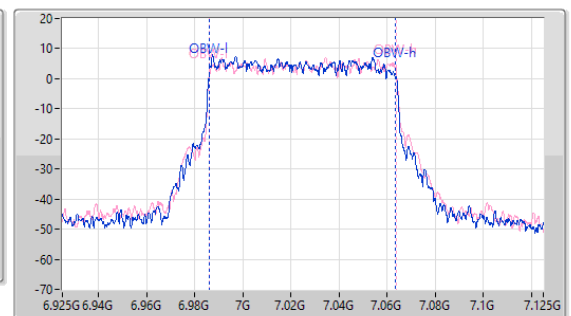
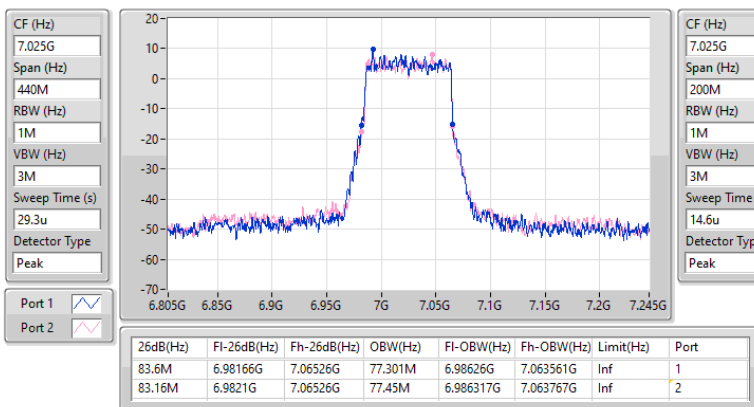


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

7025MHz

28/12/2023

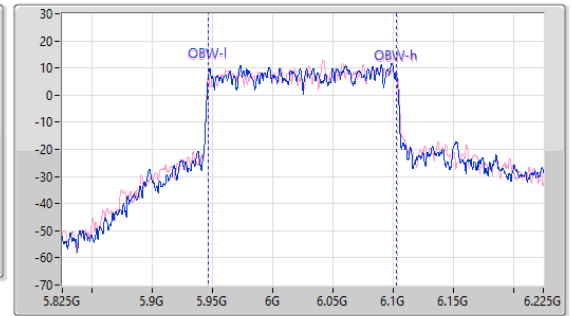
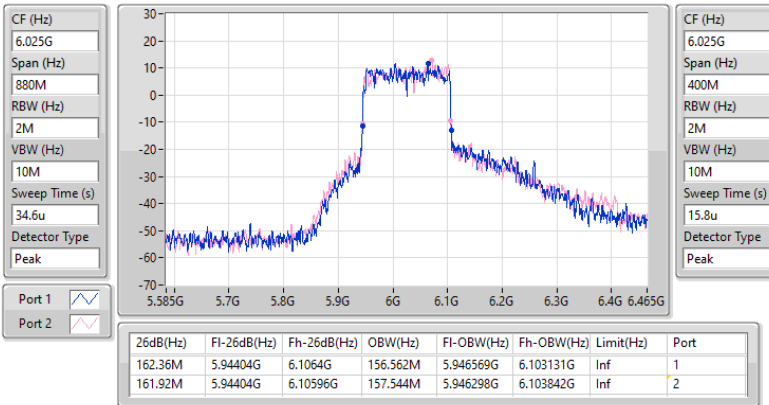


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6025MHz

28/12/2023

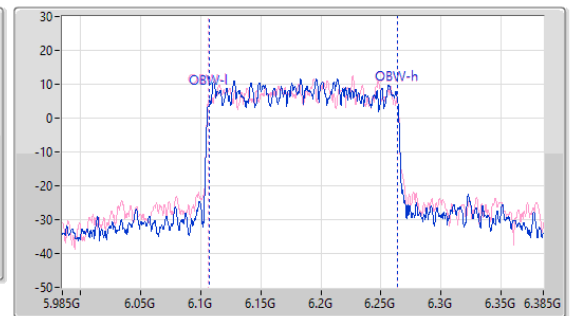
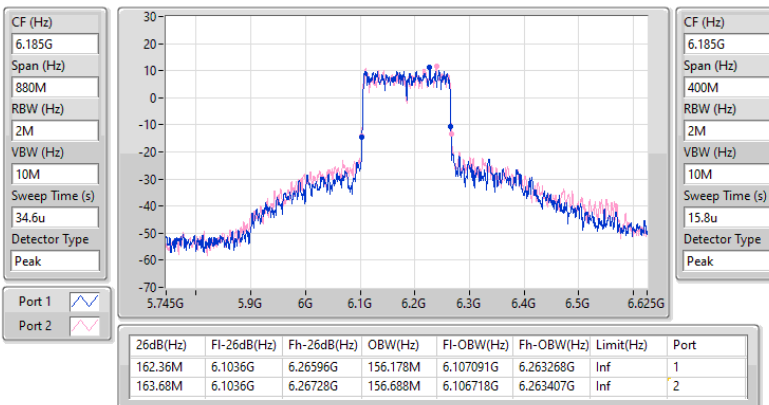


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6185MHz

28/12/2023

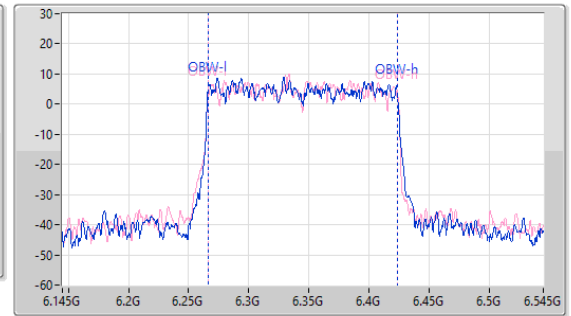
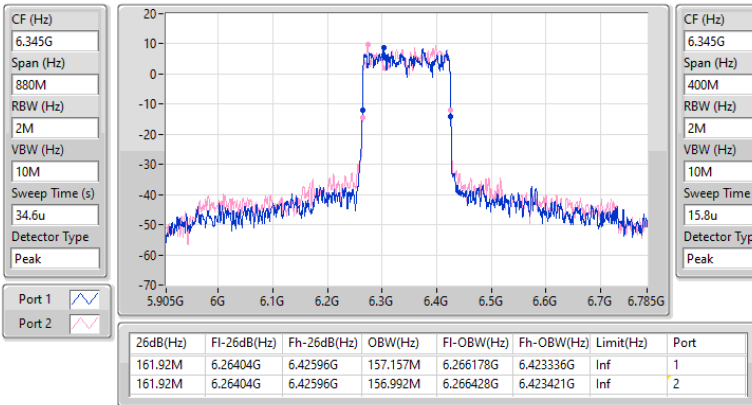


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6345MHz

28/12/2023

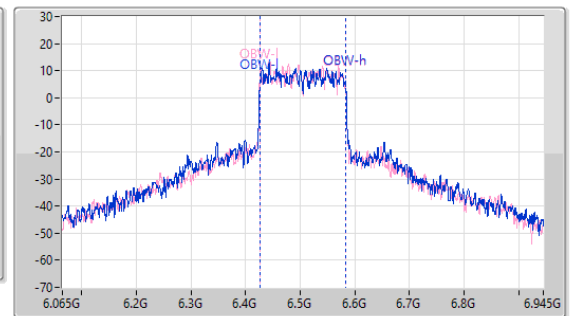
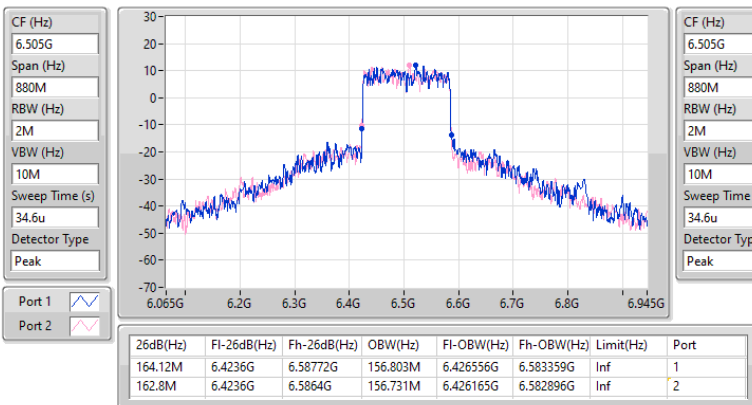


6.425-6.525GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6505MHz Straddle 6.425-6.525GHz

28/12/2023

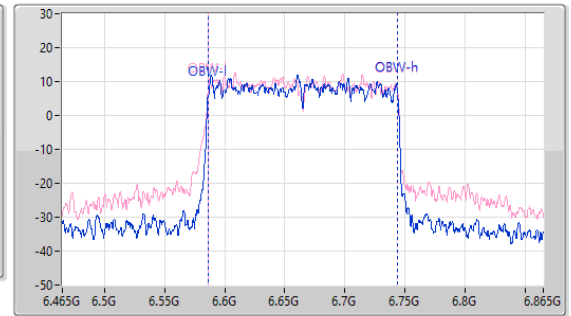
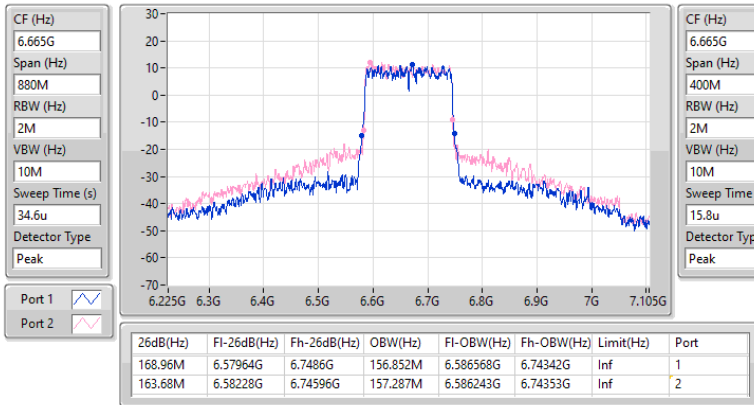


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6665MHz

28/12/2023

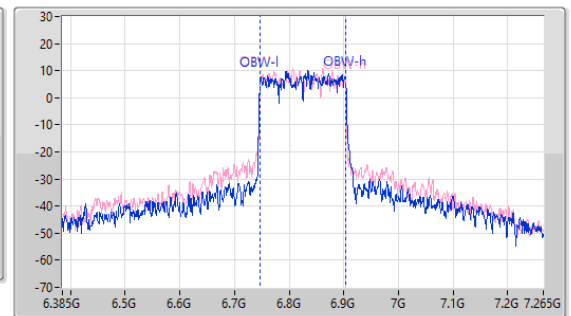
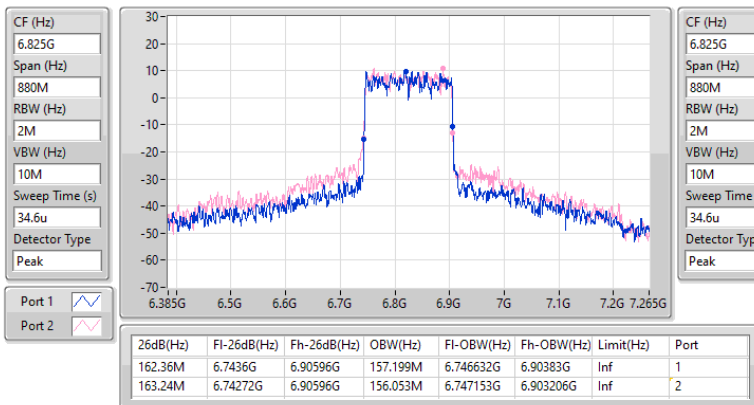


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6825MHz Straddle 6.525-6.875GHz

28/12/2023

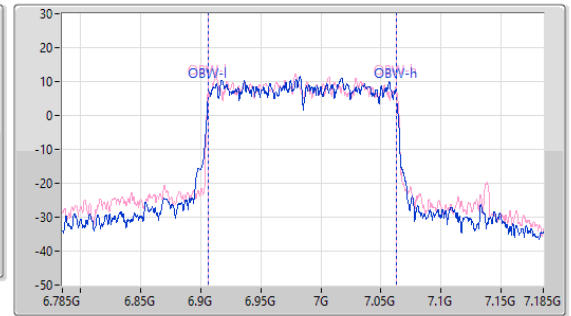
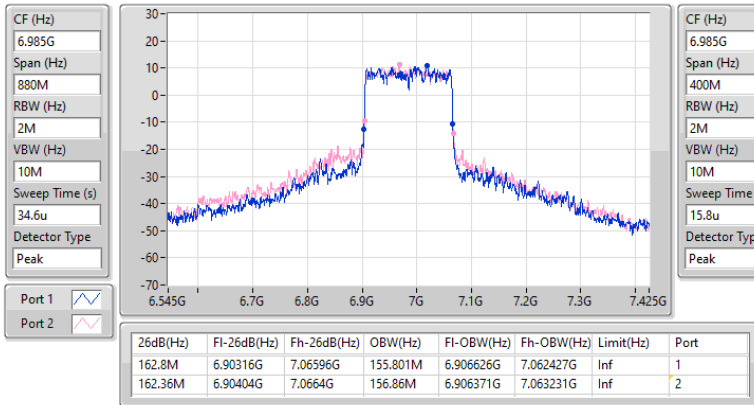


6.875-7.125GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6985MHz

28/12/2023

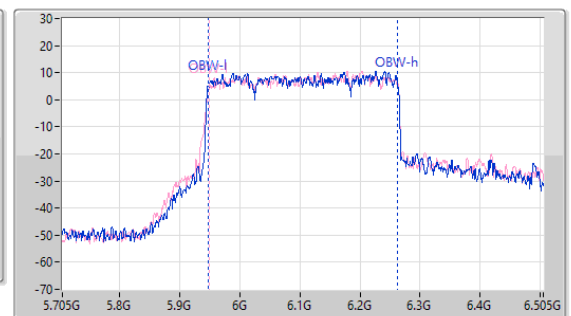
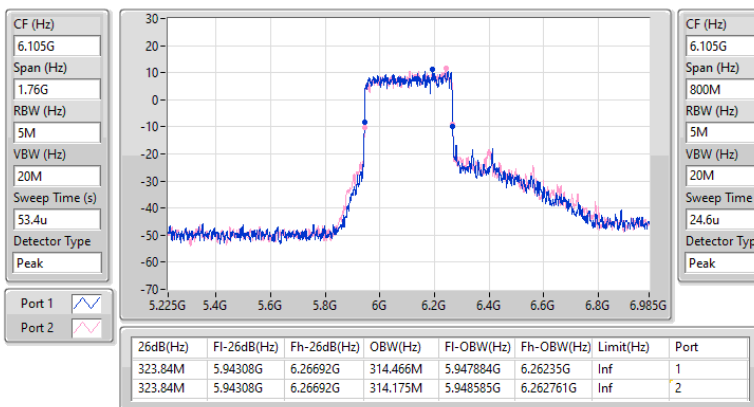


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6105MHz

28/12/2023

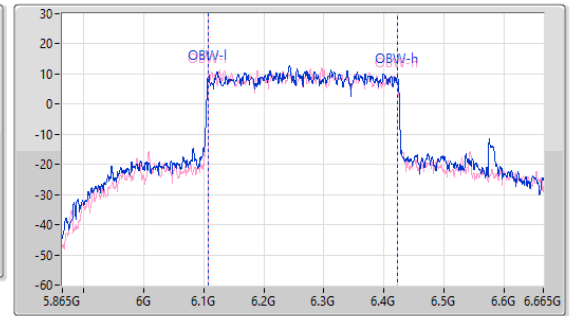
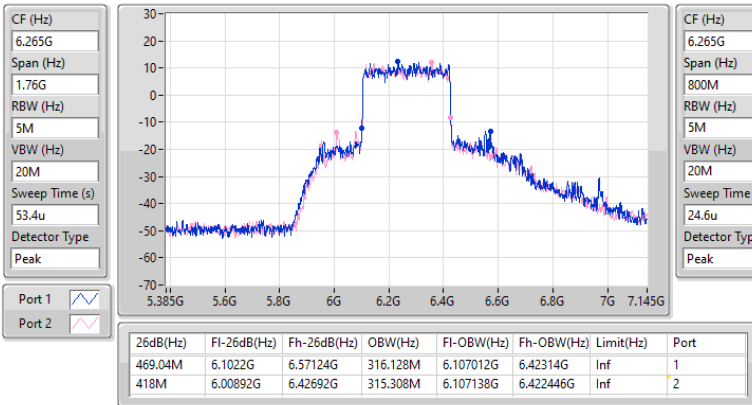


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6265MHz

30/12/2023

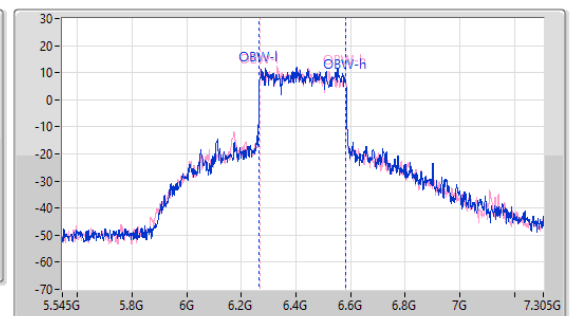
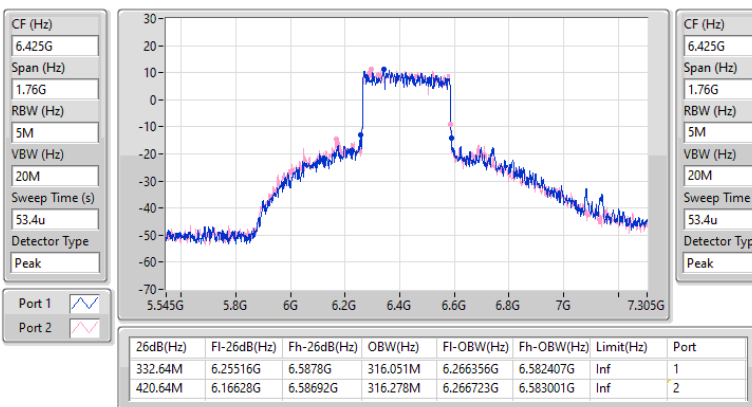


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6425MHz Straddle 5.925-6.425GHz

28/12/2023

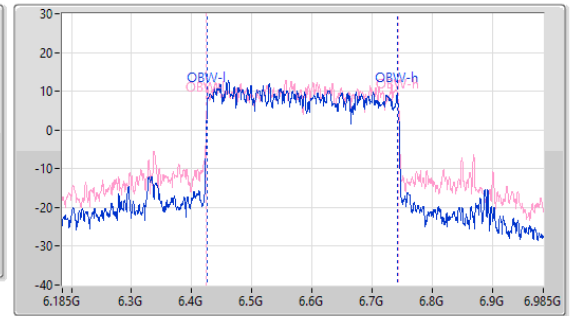
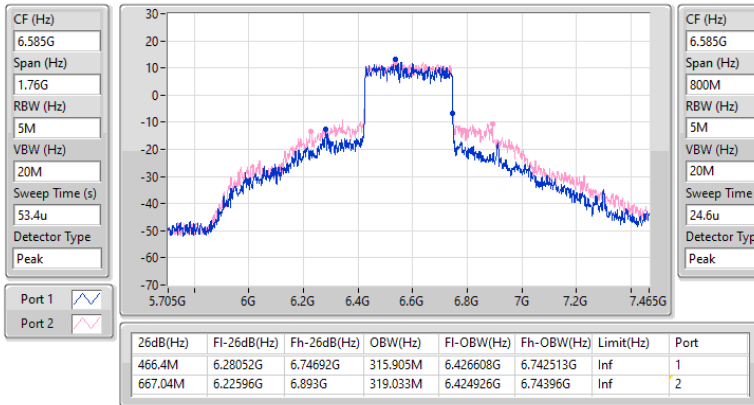


6.425-6.525GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6585MHz

30/12/2023

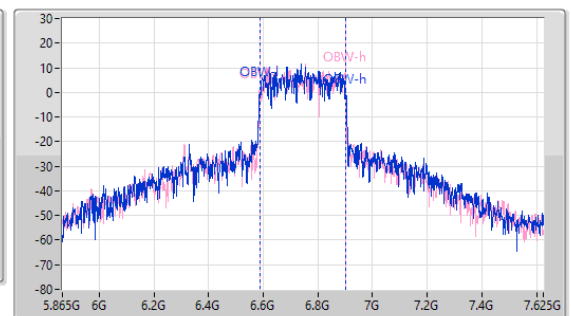
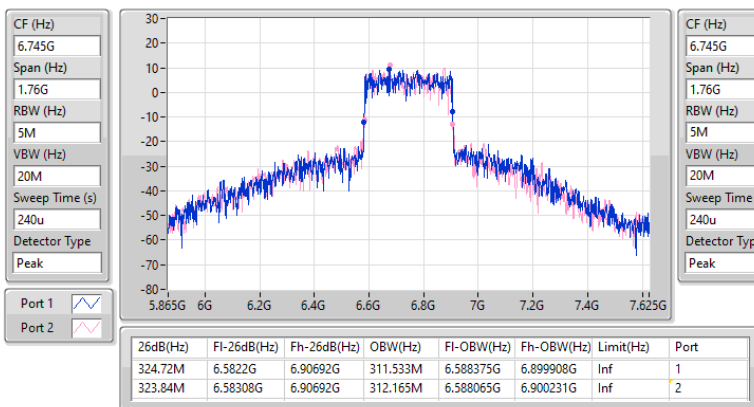


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6745MHz Straddle 6.525-6.875GHz

28/12/2023

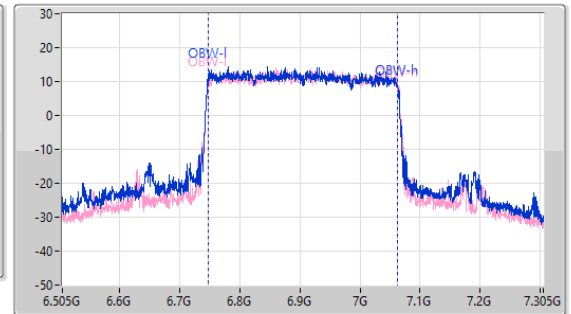
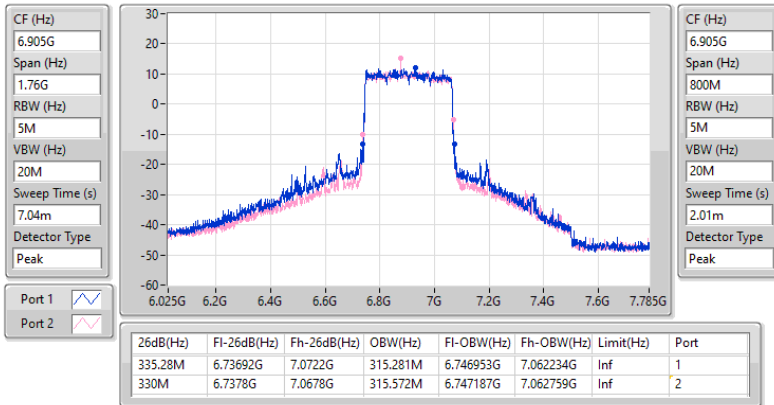


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6905MHz

30/12/2023



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)_2TX	22.275M	19.079M	19M1D1D	21.89M	19.021M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	44.77M	38.127M	38M1D1D	43.45M	37.968M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	102.52M	78.058M	78M1D1D	87.56M	77.683M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	315.92M	158.954M	159MD1D	242.44M	157.271M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	632.72M	319.237M	319MD1D	485.76M	316.147M
6.425-6.525GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	22.165M	19.083M	19M1D1D	21.78M	19.052M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	43.89M	38.381M	38M4D1D	42.13M	38.022M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	90.42M	77.775M	77M8D1D	87.78M	77.631M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	221.32M	158.9M	159MD1D	217.36M	157.685M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	634.48M	317.338M	317MD1D	537.68M	316.468M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	22.385M	19.081M	19M1D1D	21.56M	19.007M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	44.22M	38.135M	38M1D1D	42.57M	38.013M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	92.4M	77.881M	77M9D1D	87.12M	77.535M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	315.04M	158.447M	158MD1D	173.36M	157.34M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	622.16M	319.806M	320MD1D	593.12M	316.122M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	22.165M	19.088M	19M1D1D	21.395M	19.031M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	44.44M	38.55M	38M6D1D	43.23M	37.98M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	92.4M	77.902M	77M9D1D	89.1M	77.772M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	315.92M	158.109M	158MD1D	292.6M	157.648M

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

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.89M	19.069M	22M	19.021M
6195MHz	Pass	Inf	22.165M	19.059M	22.275M	19.079M
6415MHz	Pass	Inf	22M	19.052M	22M	19.056M
6435MHz	Pass	Inf	22M	19.082M	22.055M	19.071M
6475MHz	Pass	Inf	22M	19.052M	21.835M	19.076M
6515MHz	Pass	Inf	22.165M	19.083M	21.78M	19.067M
6535MHz	Pass	Inf	22.385M	19.081M	22.33M	19.046M
6695MHz	Pass	Inf	22M	19.034M	21.835M	19.007M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	22.33M	19.067M	21.56M	19.063M
6895MHz	Pass	Inf	21.56M	19.041M	21.505M	19.052M
6995MHz	Pass	Inf	21.89M	19.088M	22.165M	19.031M
7095MHz	Pass	Inf	21.725M	19.08M	21.395M	19.073M
7115MHz	Pass	Inf	21.89M	19.059M	21.67M	19.076M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	43.67M	38.01M	44.55M	38.064M
6205MHz	Pass	Inf	43.45M	37.968M	44.77M	38.127M
6405MHz	Pass	Inf	43.56M	38.038M	43.89M	38.089M
6445MHz	Pass	Inf	43.67M	38.134M	42.13M	38.024M
6485MHz	Pass	Inf	42.57M	38.022M	43.89M	38.381M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	43.45M	38.145M	43.56M	38.083M
6565MHz	Pass	Inf	43.89M	38.013M	44.22M	38.039M
6685MHz	Pass	Inf	44.11M	38.081M	42.57M	38.065M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	43.67M	38.042M	43.89M	38.135M
6925MHz	Pass	Inf	43.34M	38.121M	44.22M	38.55M
7005MHz	Pass	Inf	44M	37.98M	43.23M	38.028M
7085MHz	Pass	Inf	44.44M	38.042M	44M	38.028M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	87.56M	77.787M	91.3M	77.683M
6225MHz	Pass	Inf	89.32M	77.929M	102.52M	78.033M
6385MHz	Pass	Inf	89.1M	78.058M	90.64M	77.828M
6465MHz	Pass	Inf	87.78M	77.775M	89.98M	77.631M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	88M	77.749M	90.42M	77.735M
6625MHz	Pass	Inf	90.2M	77.768M	90.42M	77.769M
6705MHz	Pass	Inf	87.12M	77.791M	87.34M	77.76M
6785MHz	Pass	Inf	88.22M	77.535M	92.4M	77.864M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	88M	77.881M	91.08M	77.608M
6945MHz	Pass	Inf	89.32M	77.902M	91.74M	77.772M
7025MHz	Pass	Inf	89.1M	77.828M	92.4M	77.852M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	242.44M	157.271M	253.44M	157.589M
6185MHz	Pass	Inf	281.16M	157.371M	312.4M	157.872M
6345MHz	Pass	Inf	290.4M	157.531M	315.92M	158.954M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	221.32M	157.685M	217.36M	158.9M
6665MHz	Pass	Inf	173.36M	157.34M	315.04M	157.44M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	272.36M	157.42M	289.08M	158.447M
6985MHz	Pass	Inf	292.6M	157.648M	315.92M	158.109M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	485.76M	316.147M	500.72M	318.859M
6265MHz	Pass	Inf	529.76M	316.353M	632.72M	317.705M
6425MHz Straddle 5.925-6.425GHz	Pass	Inf	608.08M	317.492M	630.08M	319.237M
6585MHz	Pass	Inf	634.48M	316.468M	537.68M	317.338M
6745MHz Straddle 6.525-6.875GHz	Pass	Inf	593.12M	317.806M	622.16M	319.806M
6905MHz	Pass	Inf	616M	316.122M	620.4M	317.084M

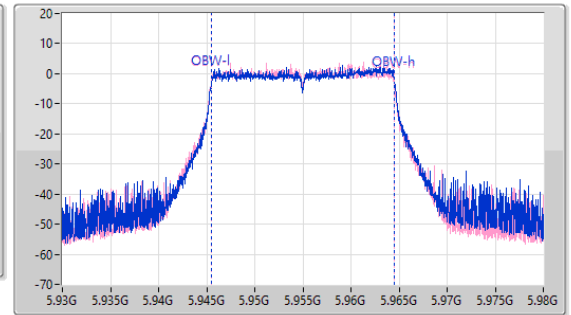
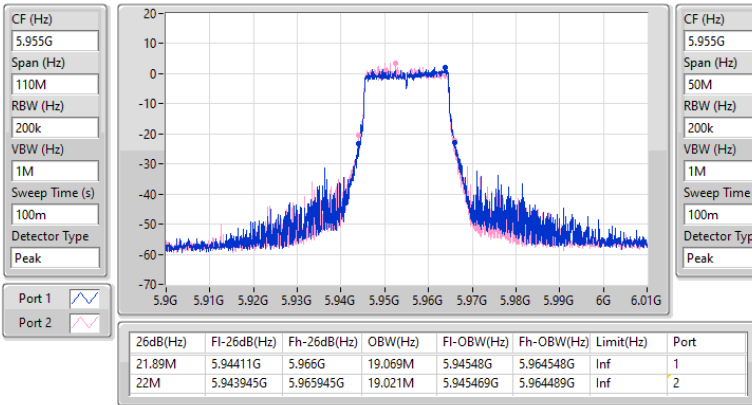
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

5955MHz

30/12/2023

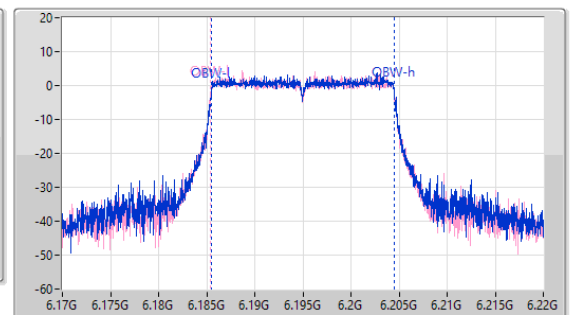
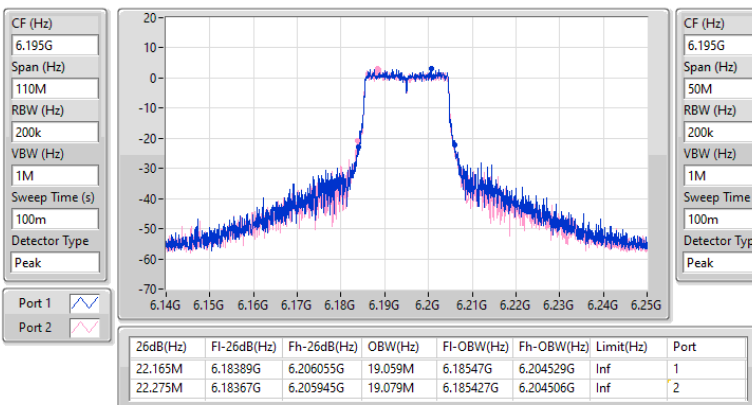


5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6195MHz

30/12/2023

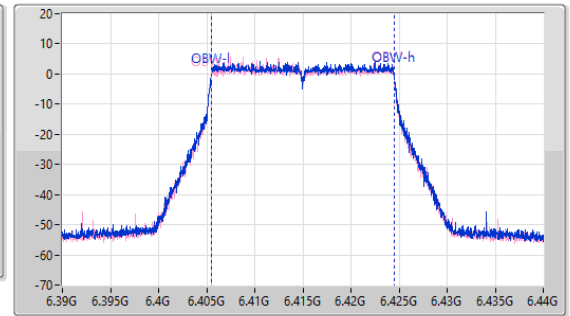
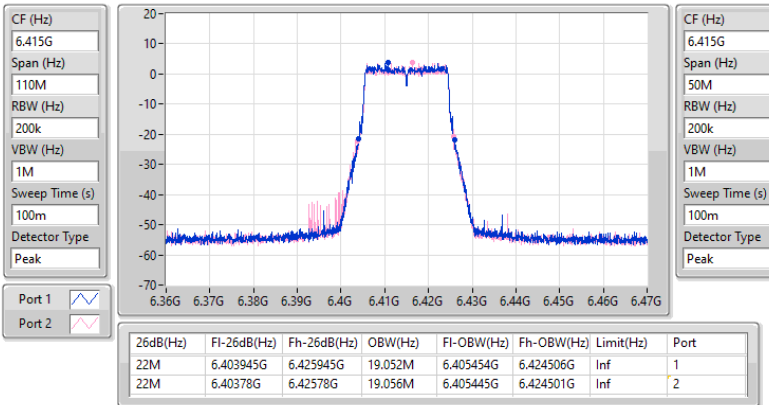


5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6415MHz

30/12/2023

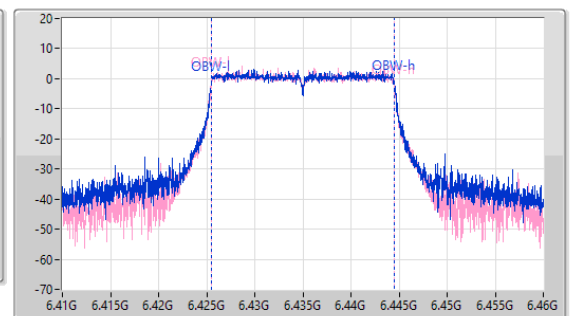
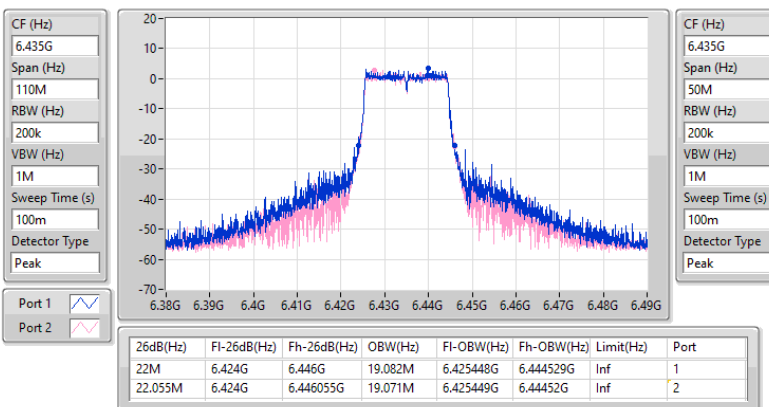


6.425-6.525GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6435MHz

30/12/2023

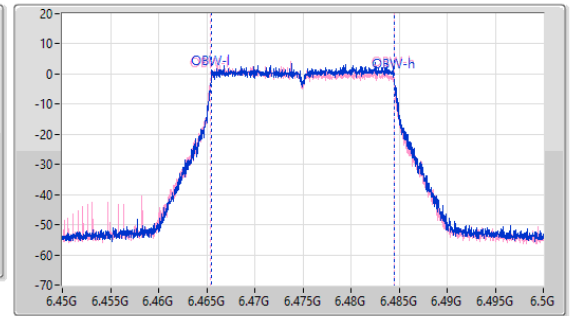
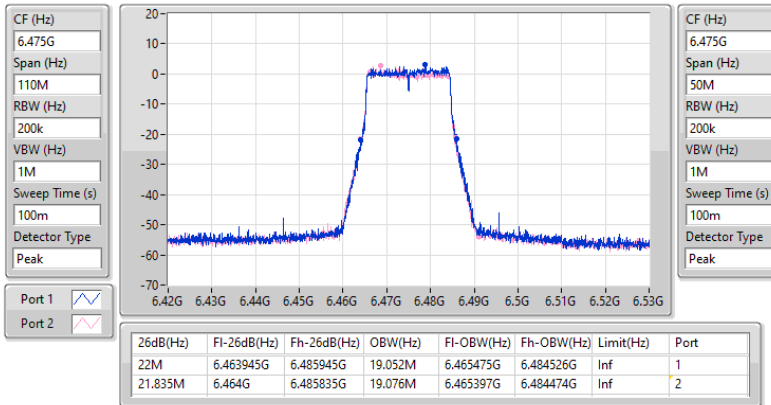


6.425-6.525GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6475MHz

30/12/2023

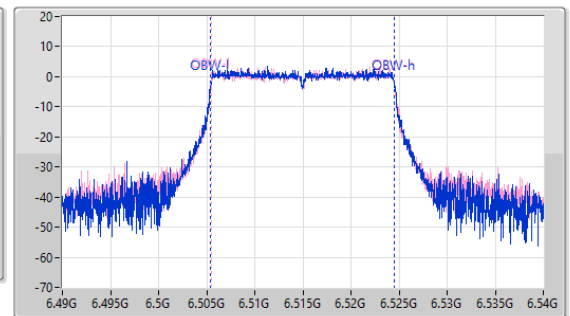
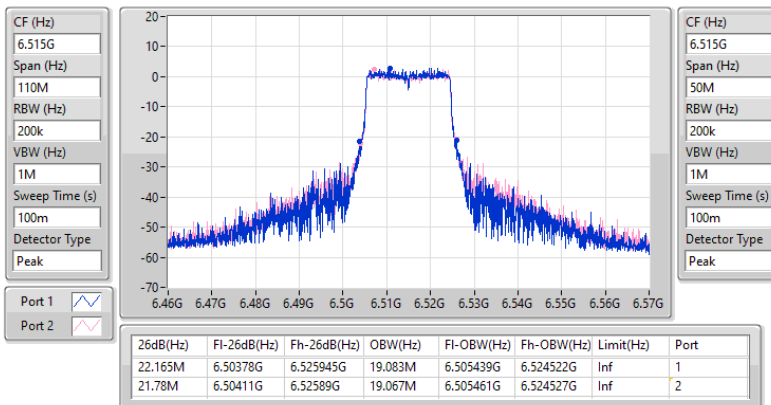


6.425-6.525GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6515MHz

30/12/2023

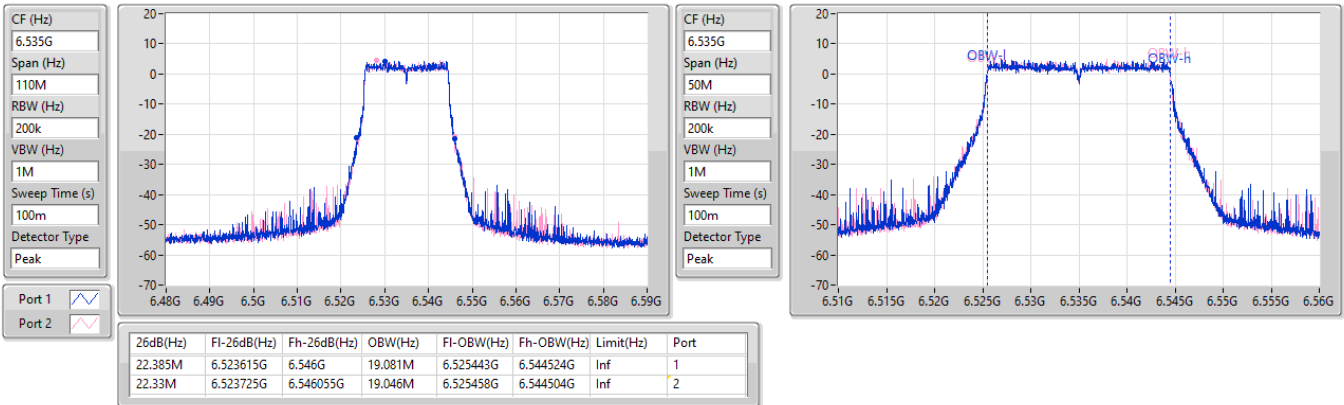


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6535MHz

30/12/2023

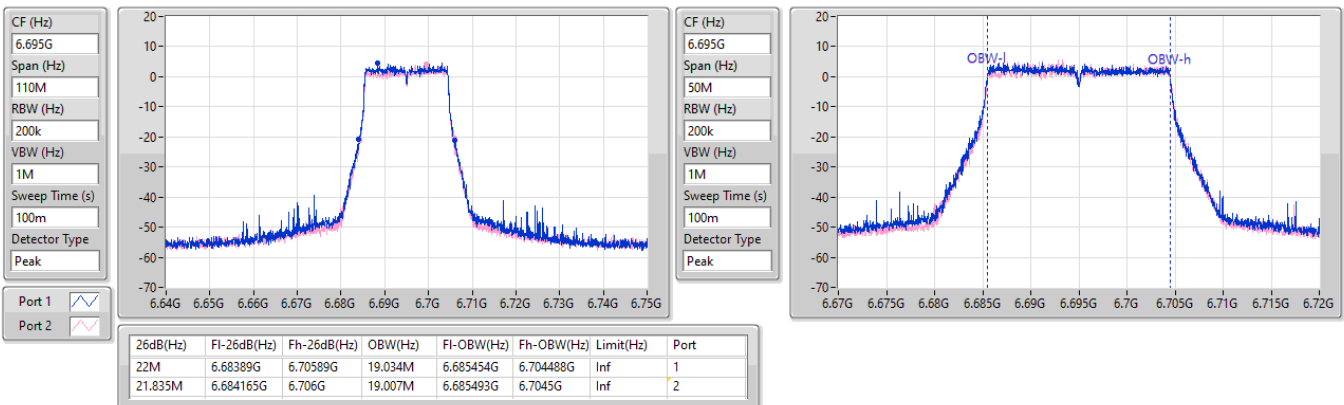


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6695MHz

30/12/2023

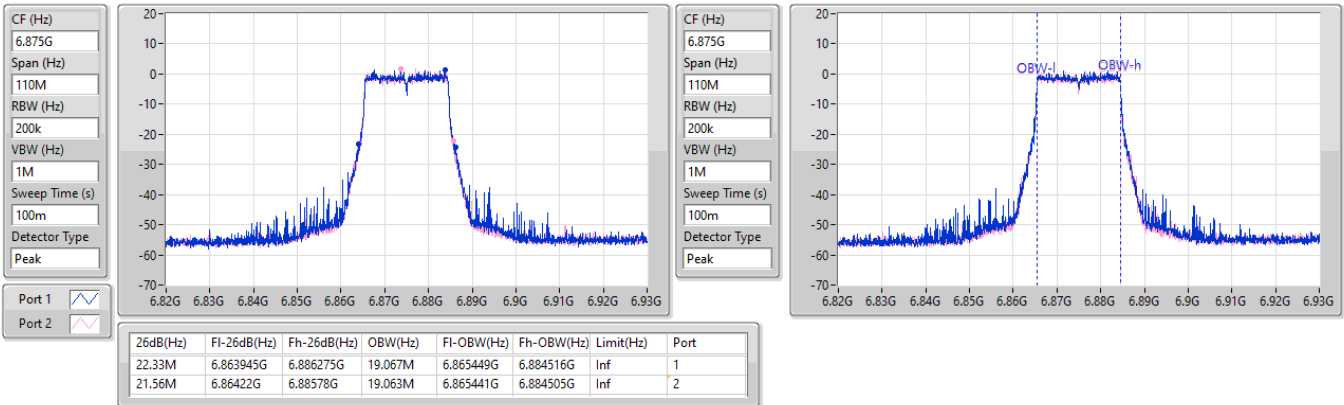


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6875MHz Straddle 6.525-6.875GHz

30/12/2023

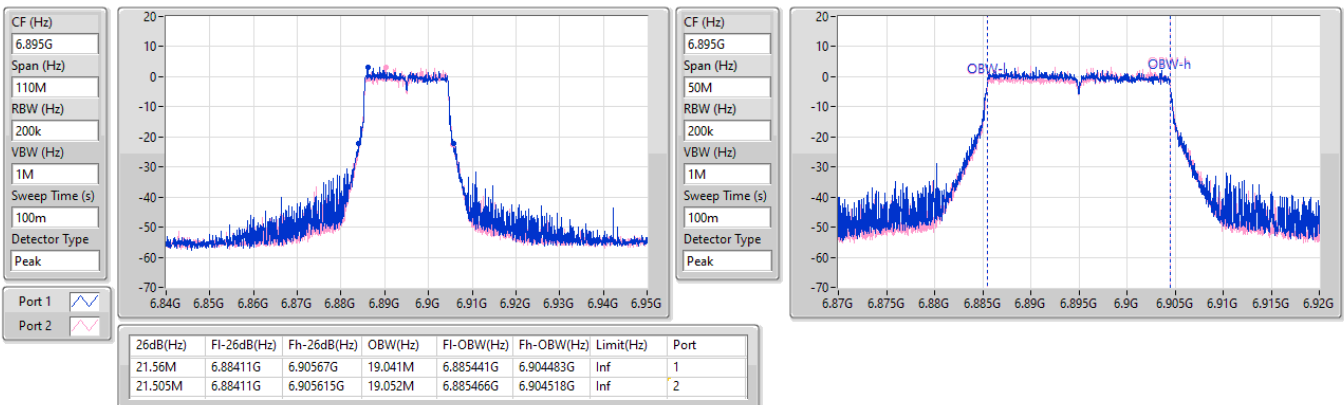


6.875-7.125GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6895MHz

30/12/2023

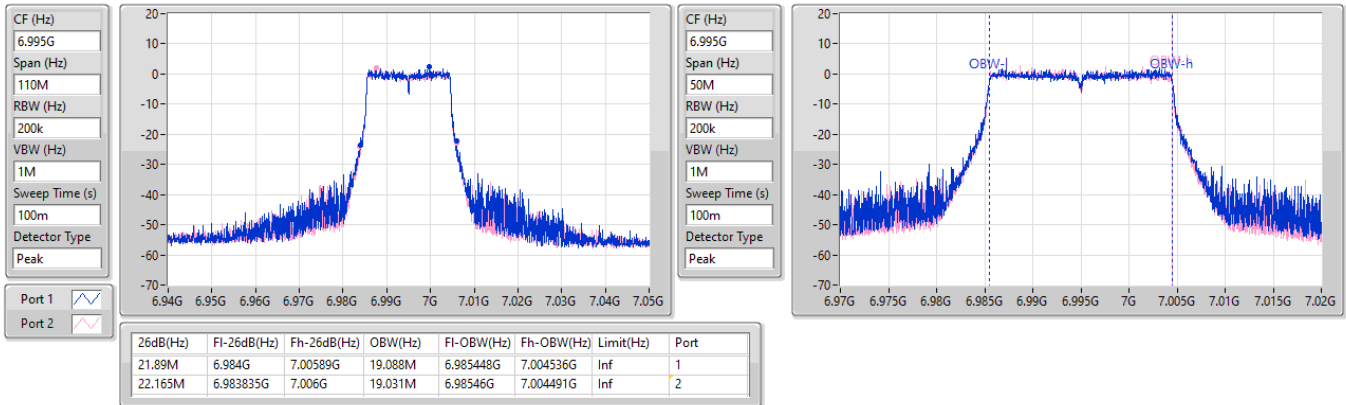


6.875-7.125GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6995MHz

30/12/2023

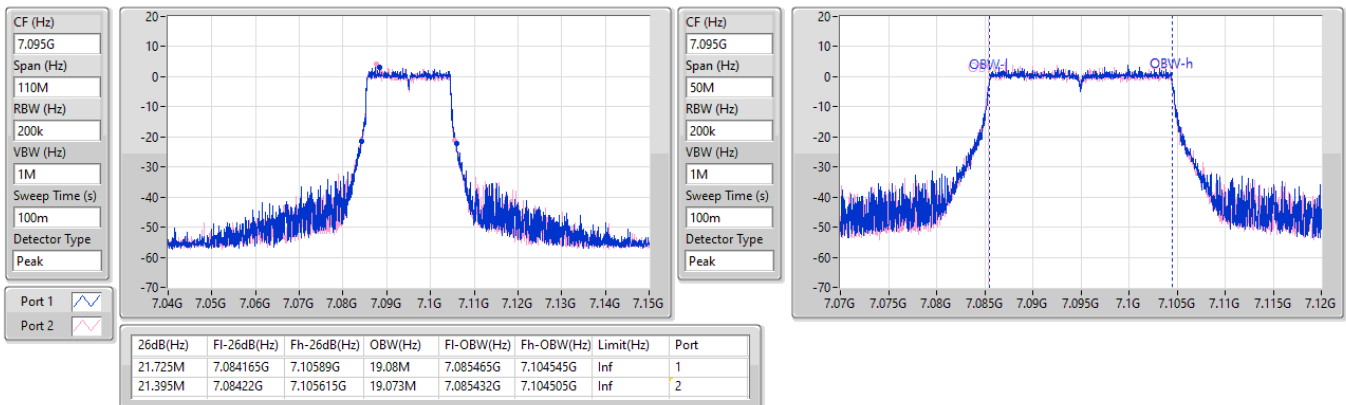


6.875-7.125GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

7095MHz

30/12/2023

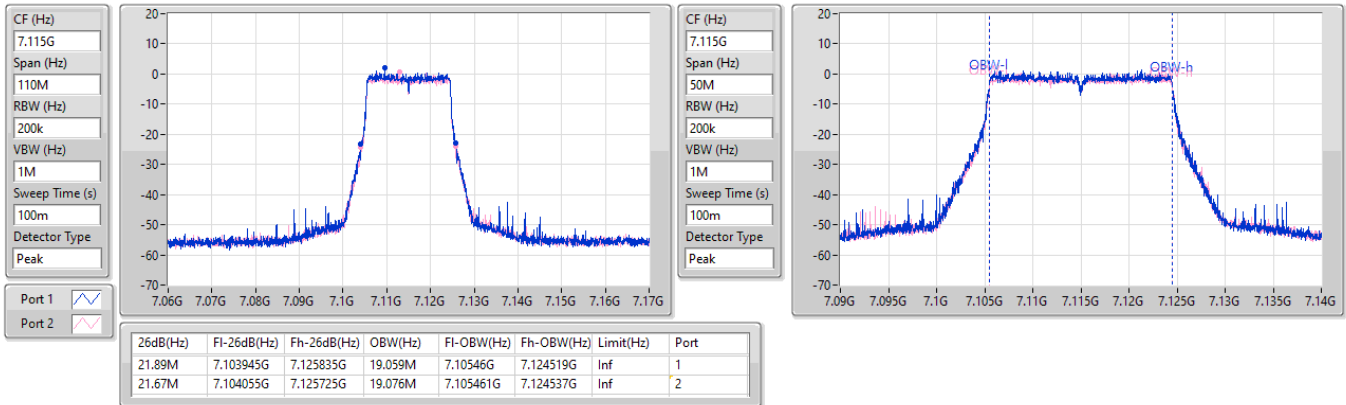


6.875-7.125GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

7115MHz

30/12/2023

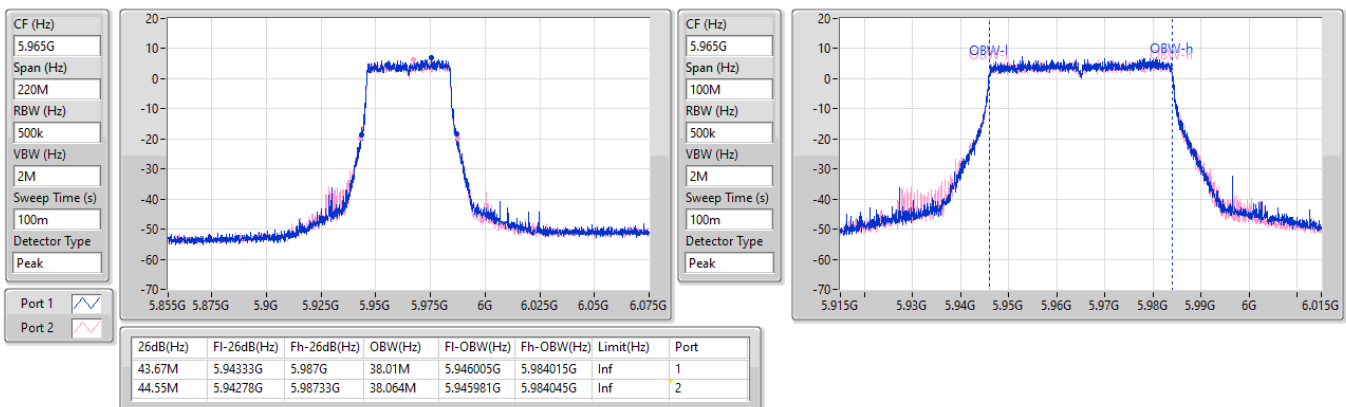


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

5965MHz

30/12/2023

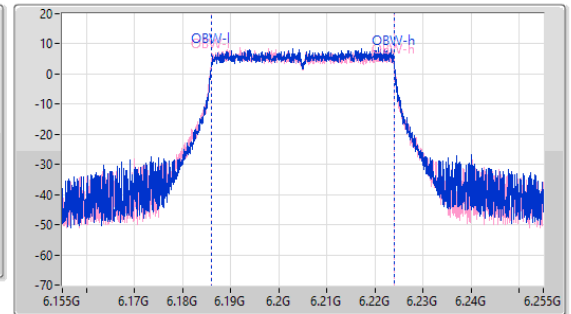
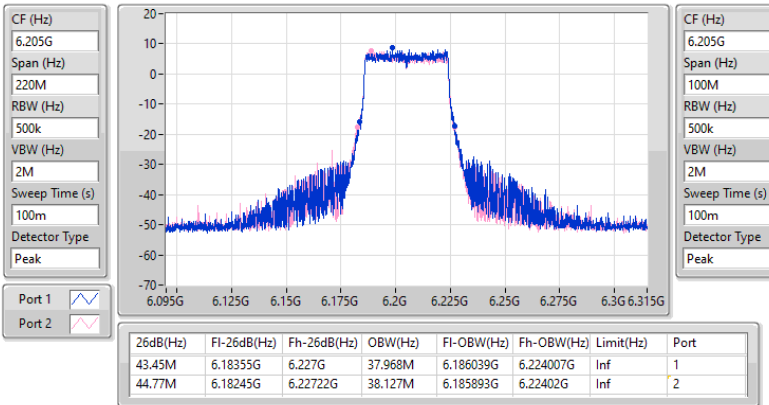


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6205MHz

30/12/2023

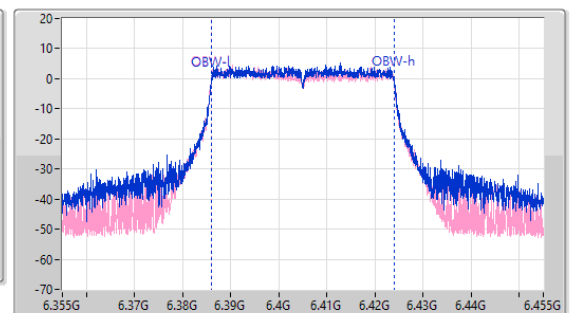
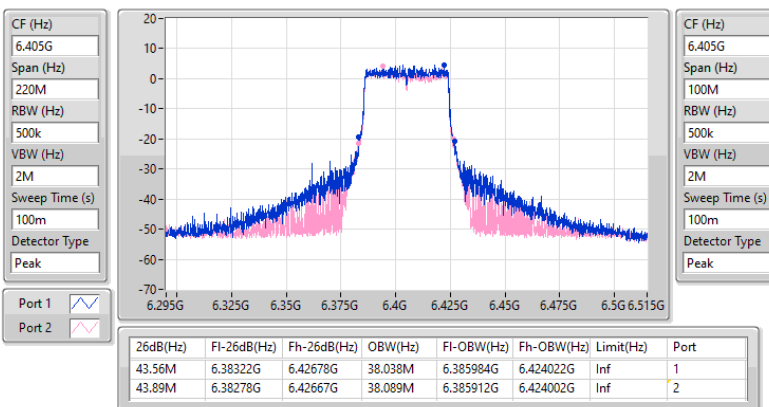


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6405MHz

30/12/2023

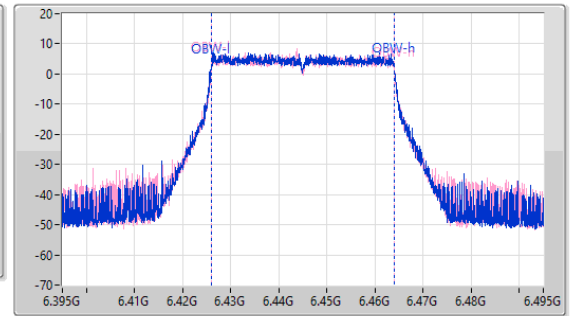
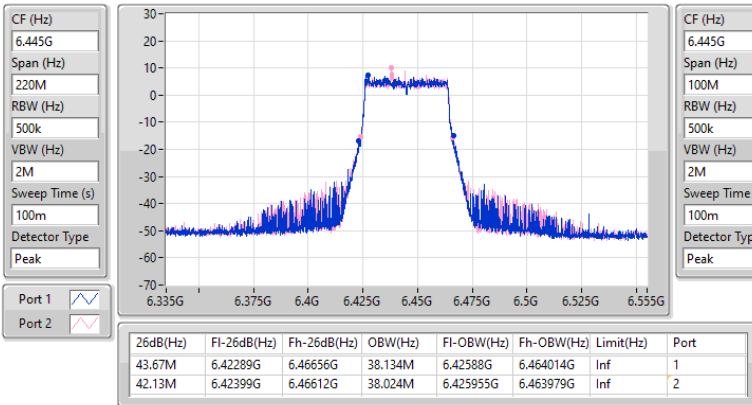


6.425-6.525GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6445MHz

30/12/2023

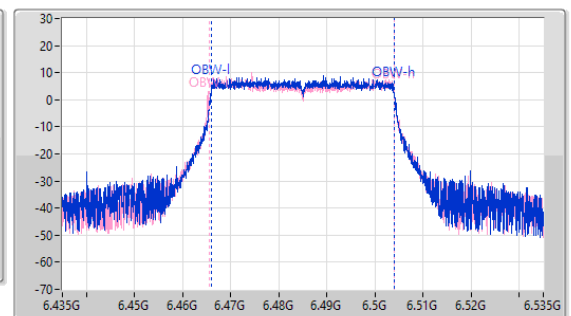
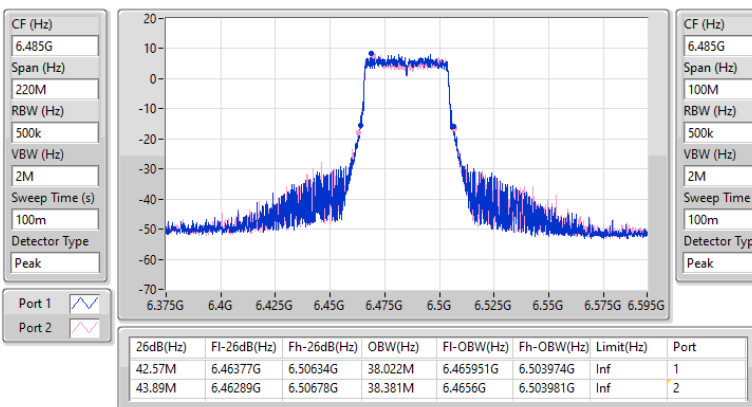


6.425-6.525GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6485MHz

30/12/2023

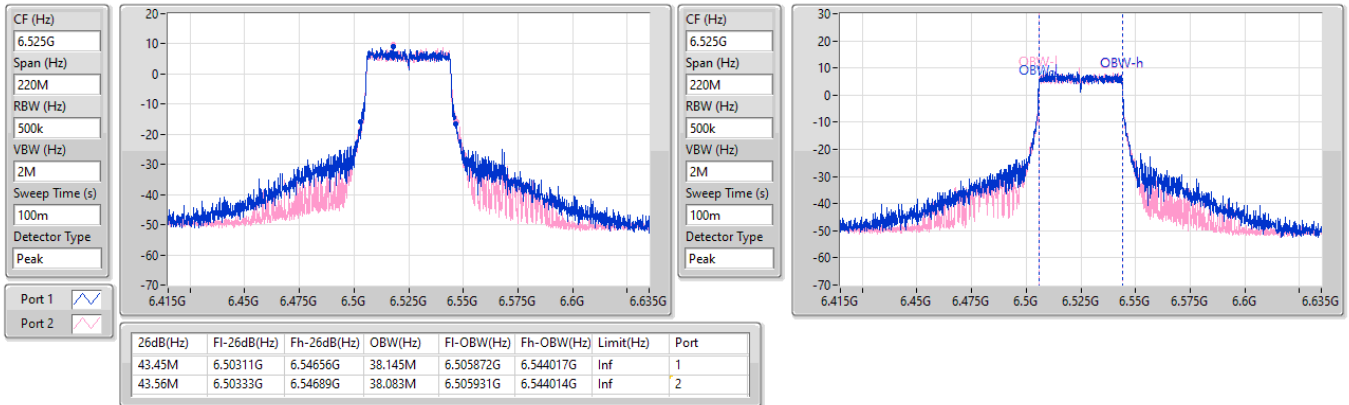


6.425-6.525GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6525MHz Straddle 6.425-6.525GHz

30/12/2023

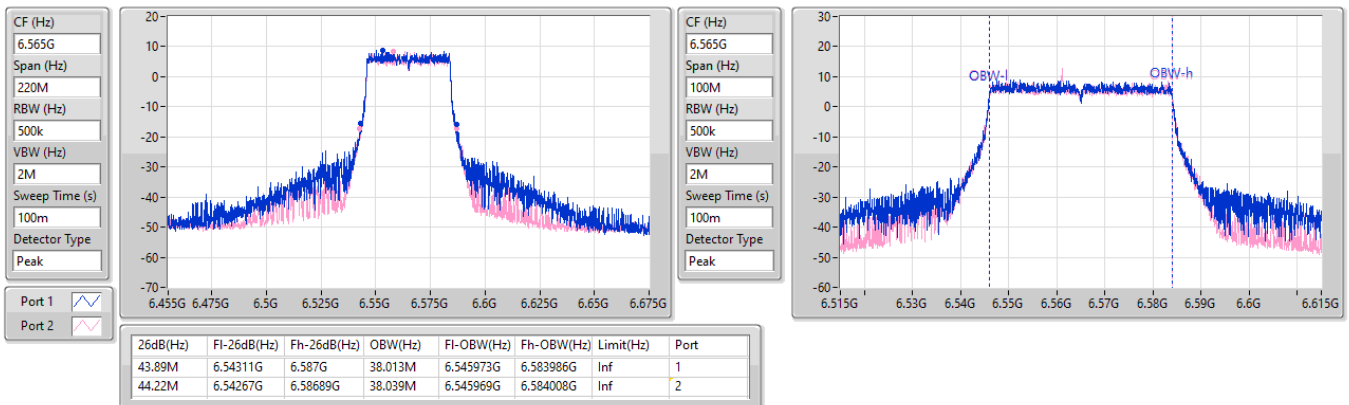


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6565MHz

30/12/2023

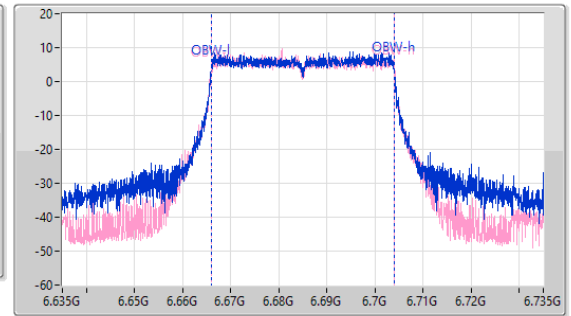
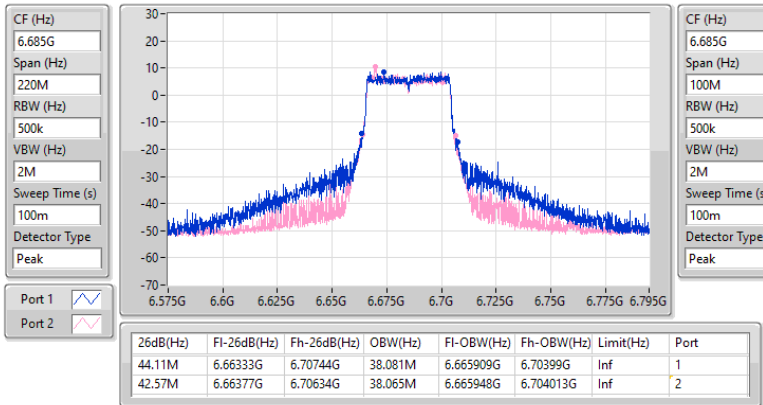


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6685MHz

30/12/2023

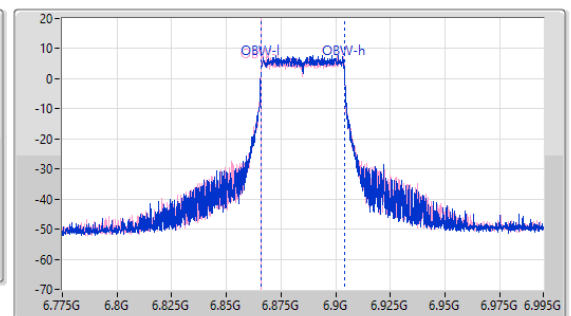
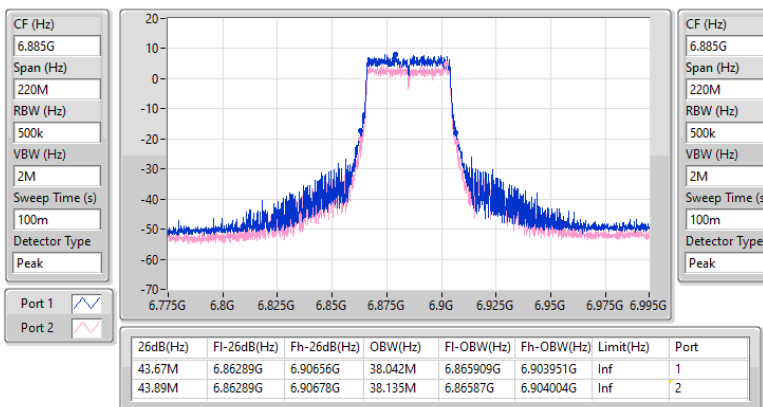


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6885MHz Straddle 6.525-6.875GHz

30/12/2023

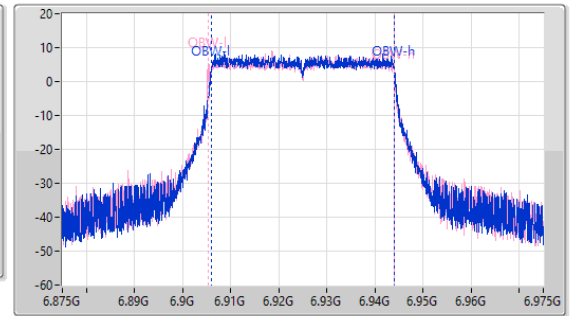
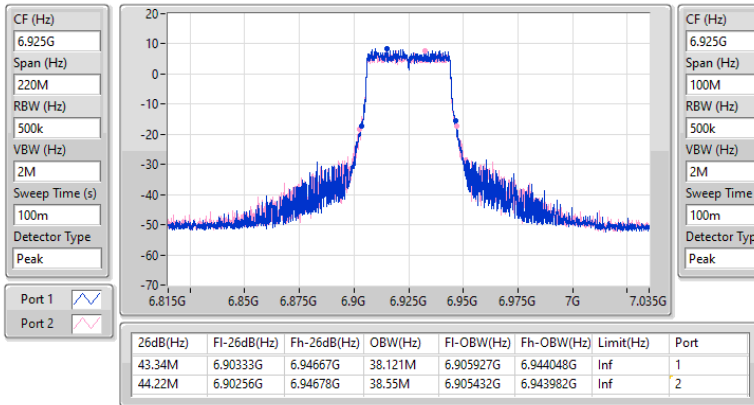


6.875-7.125GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6925MHz

30/12/2023

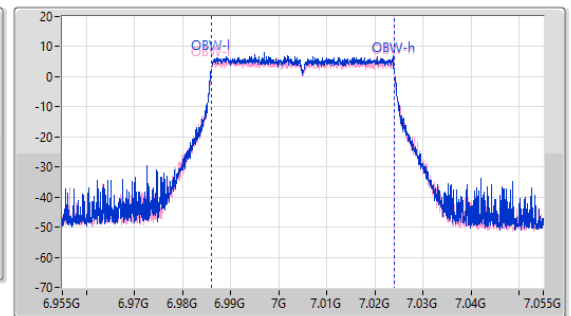
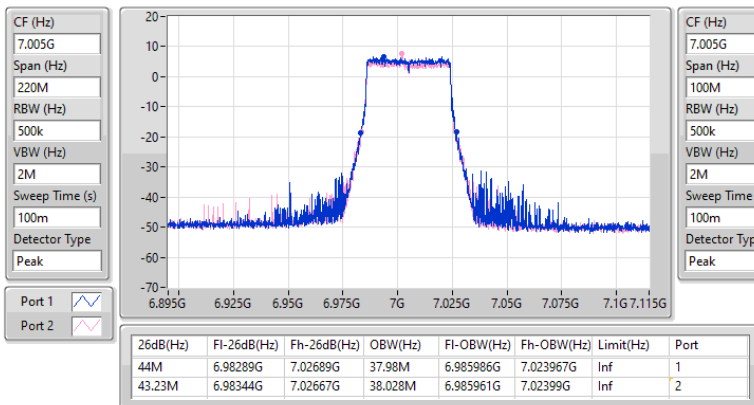


6.875-7.125GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

7005MHz

30/12/2023

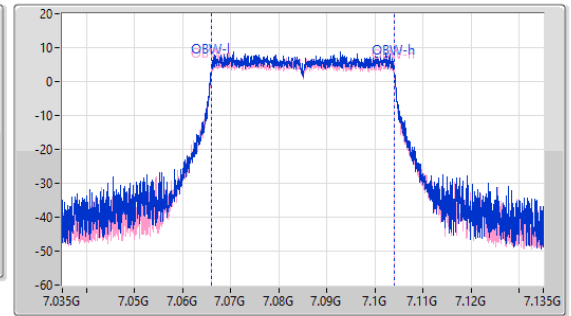
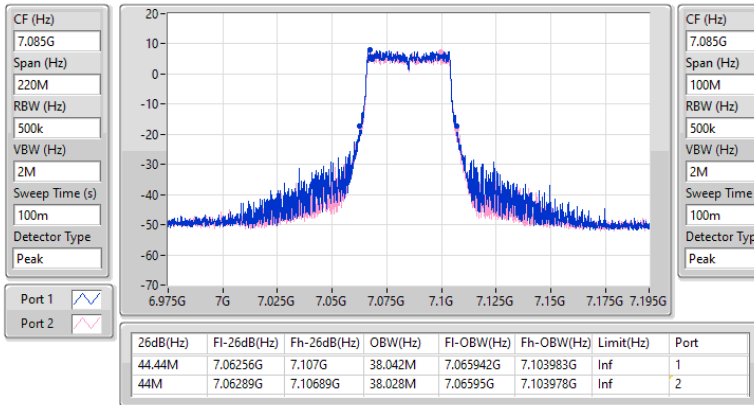


6.875-7.125GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

7085MHz

30/12/2023

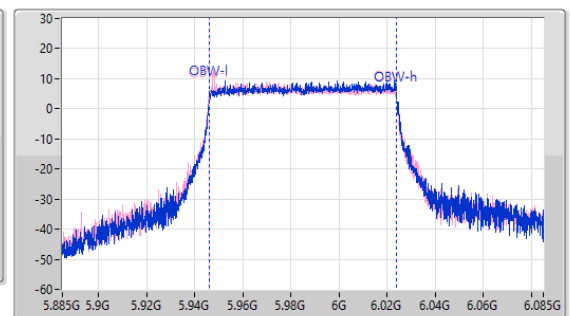
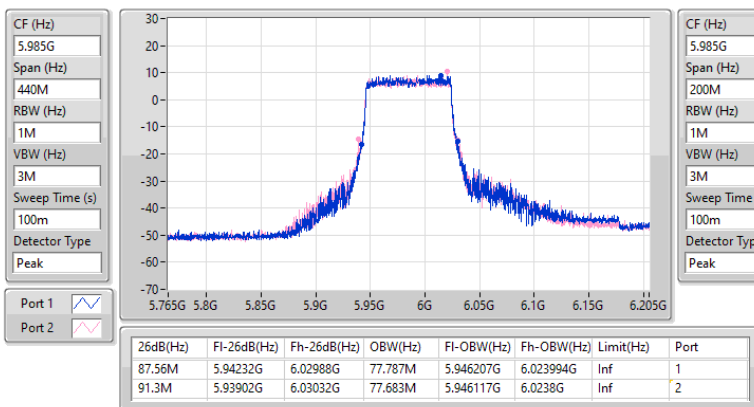


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

5985MHz

30/12/2023

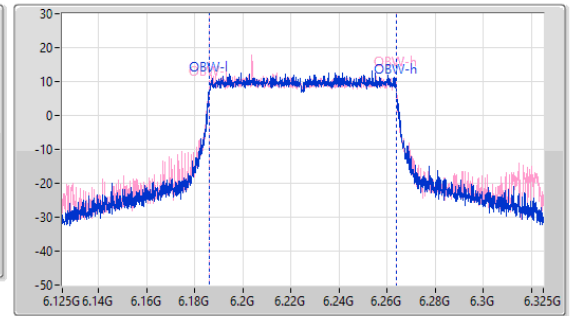
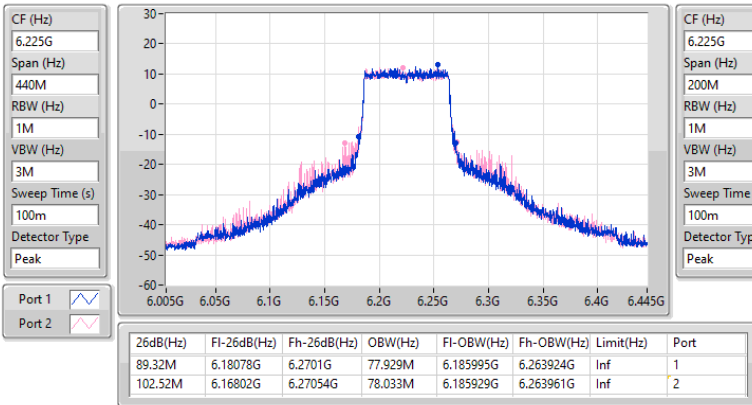


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6225MHz

30/12/2023

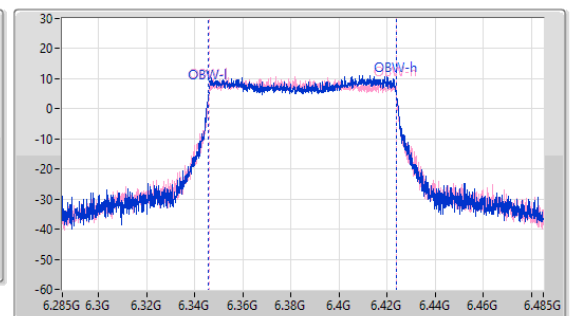
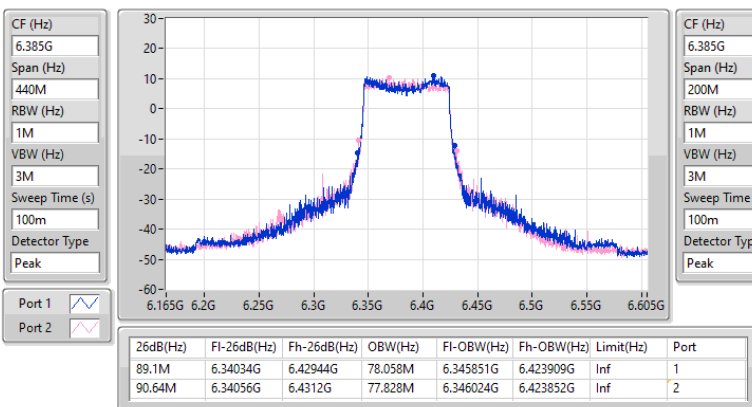


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6385MHz

30/12/2023

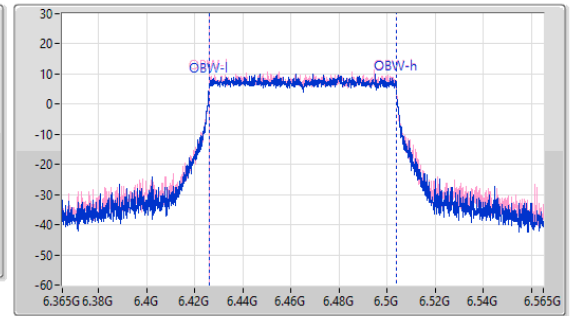
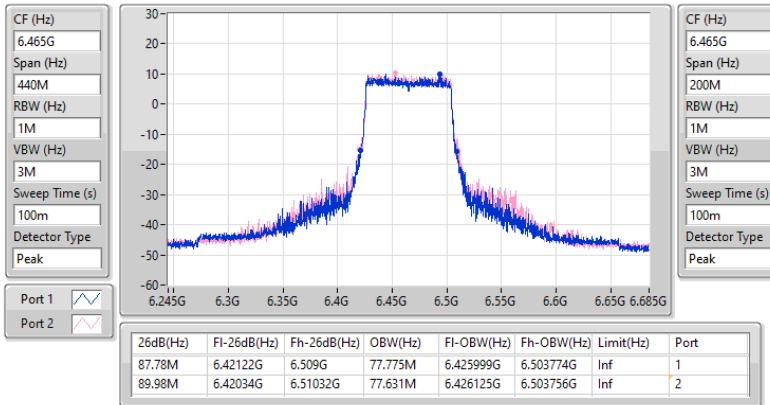


6.425-6.525GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6465MHz

30/12/2023

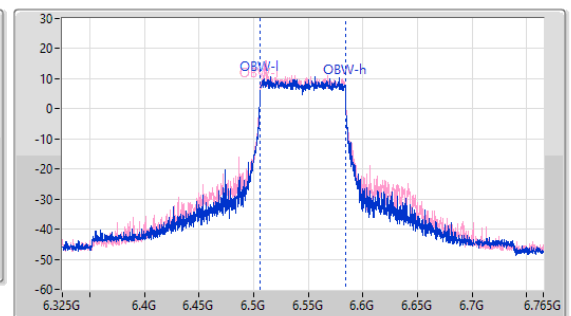
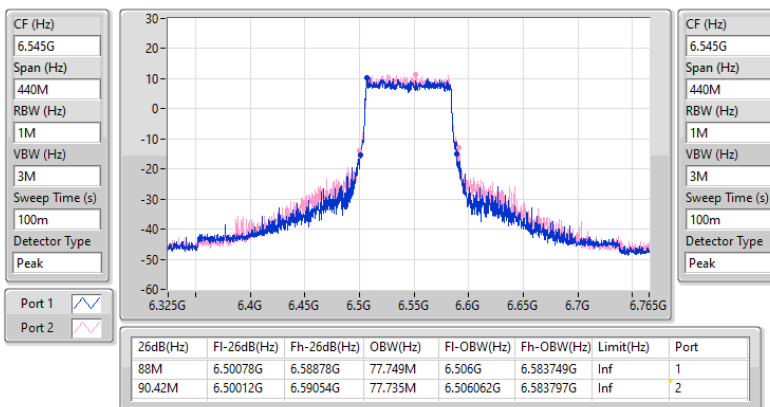


6.425-6.525GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6545MHz Straddle 6.425-6.525GHz

30/12/2023

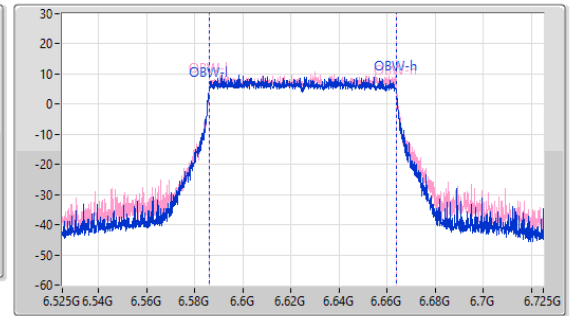
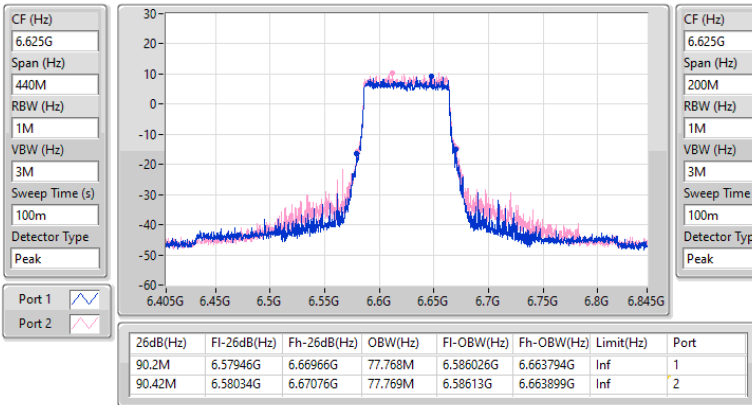


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6625MHz

30/12/2023

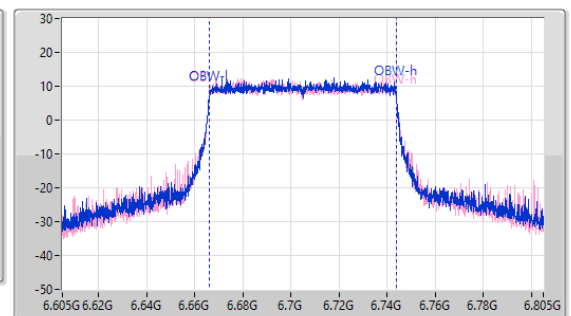
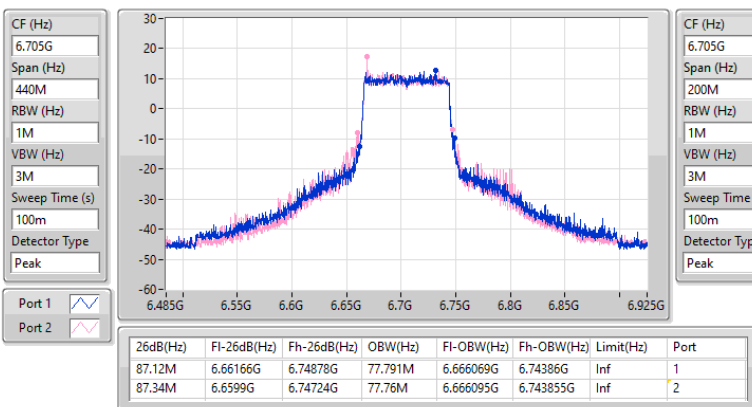


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6705MHz

30/12/2023

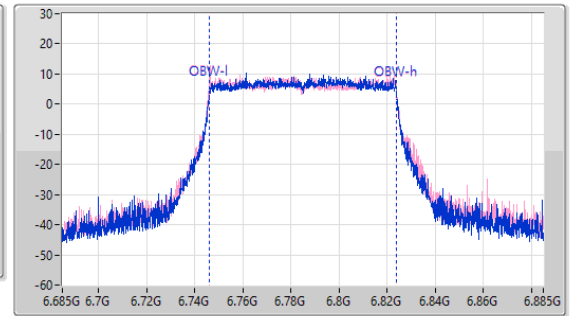
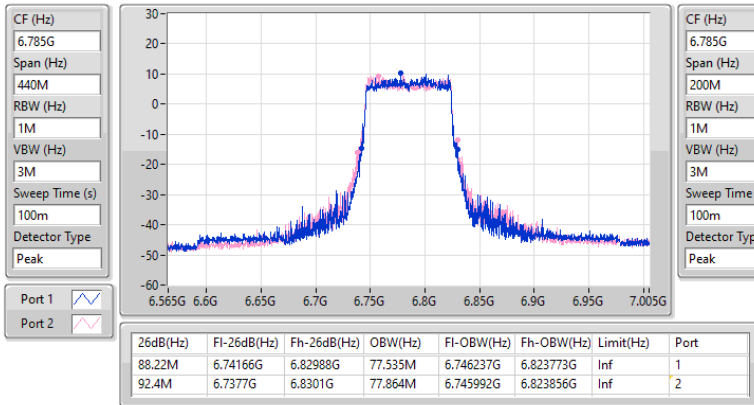


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6785MHz

30/12/2023

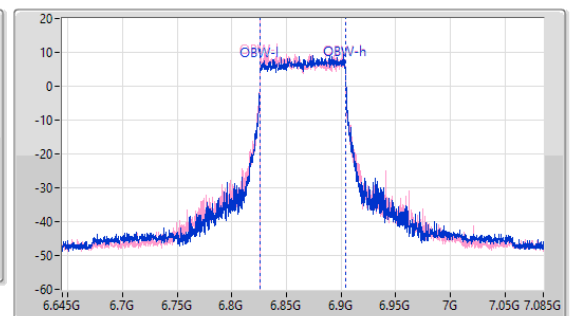
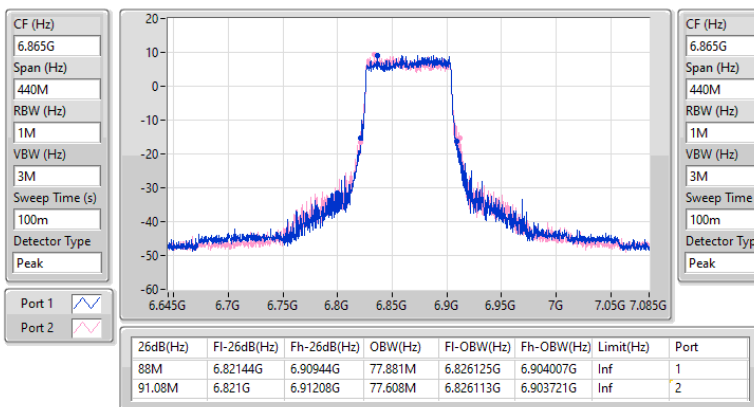


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6865MHz Straddle 6.525-6.875GHz

30/12/2023

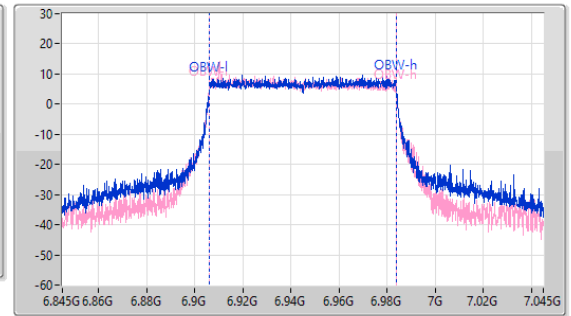
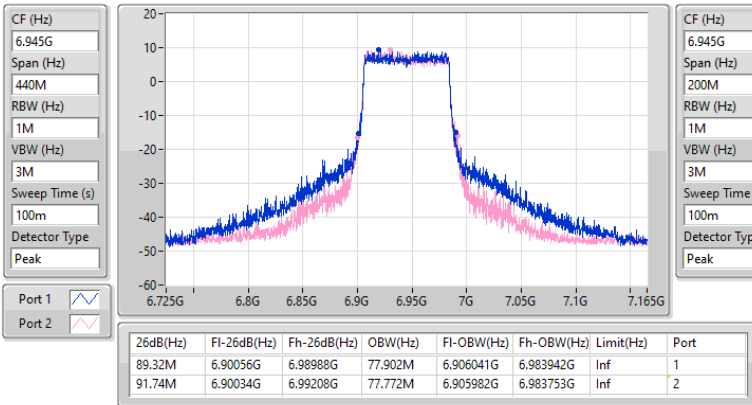


6.875-7.125GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6945MHz

30/12/2023

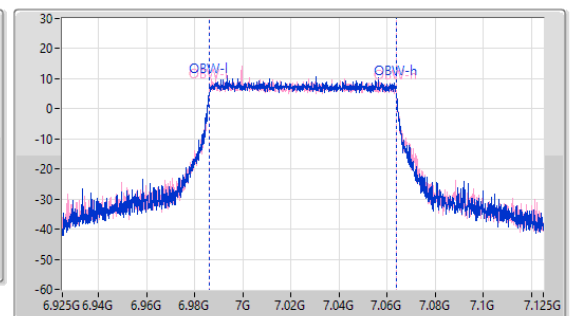
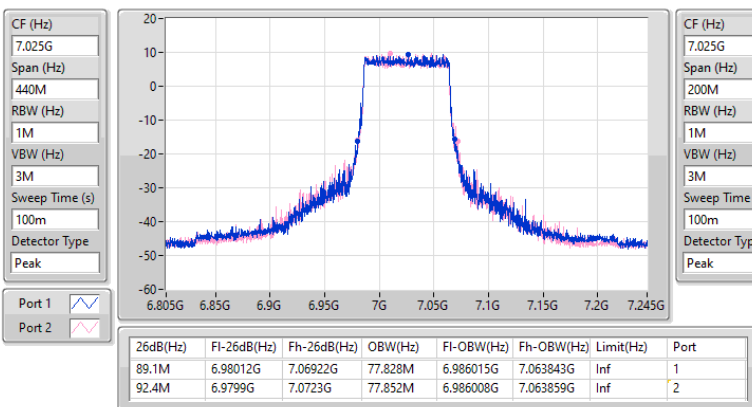


6.875-7.125GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

7025MHz

30/12/2023

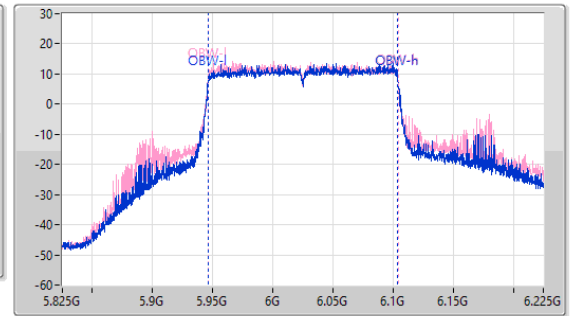
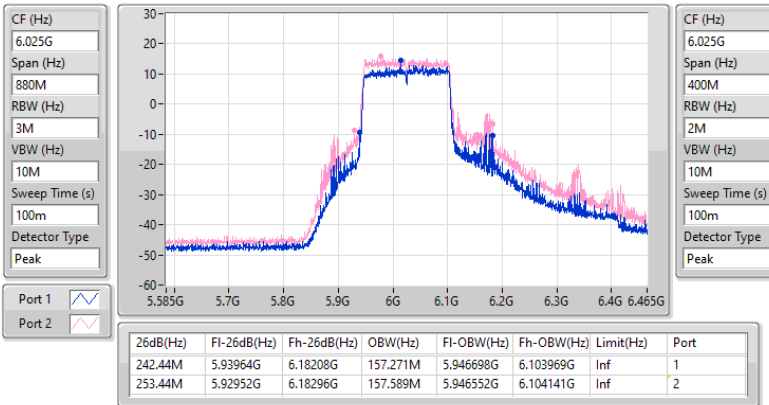


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6025MHz

30/12/2023

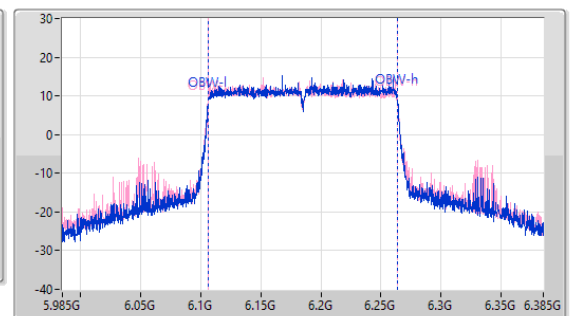
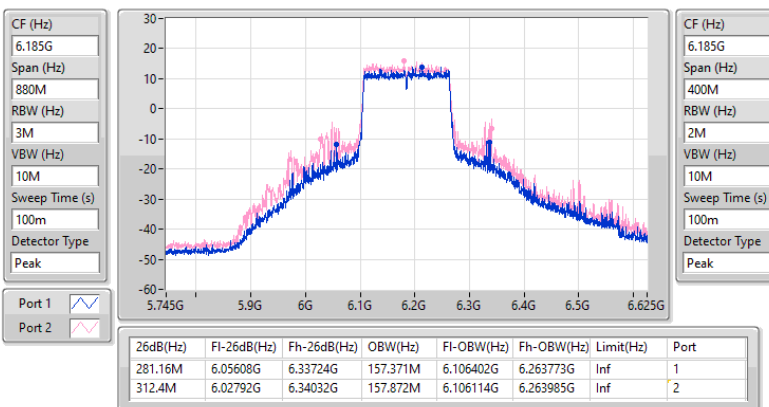


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6185MHz

30/12/2023

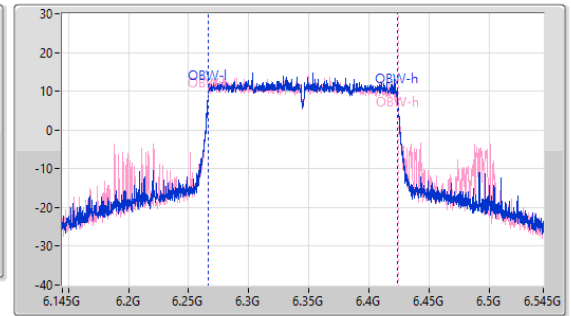
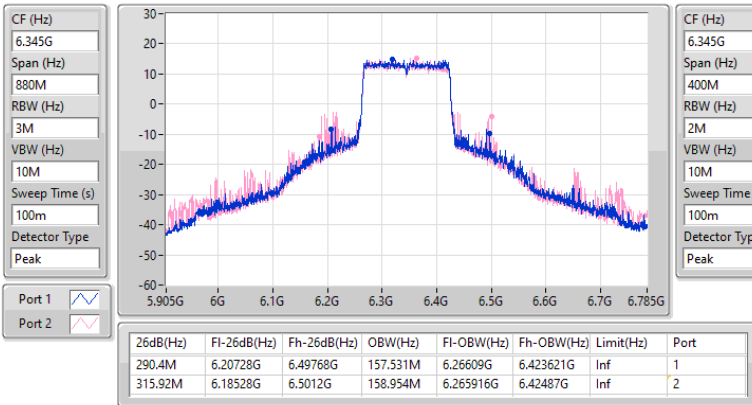


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6345MHz

30/12/2023

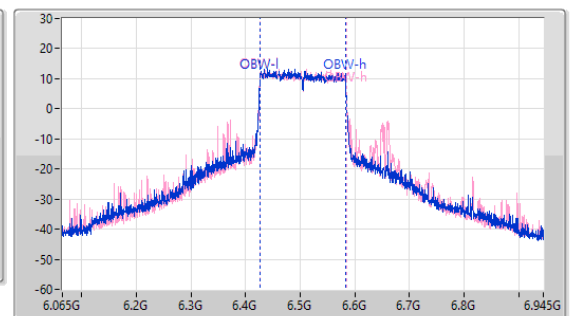
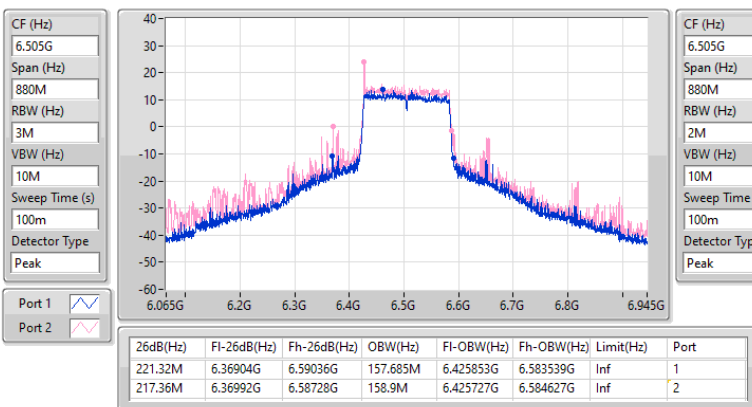


6.425-6.525GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6505MHz Straddle 6.425-6.525GHz

30/12/2023

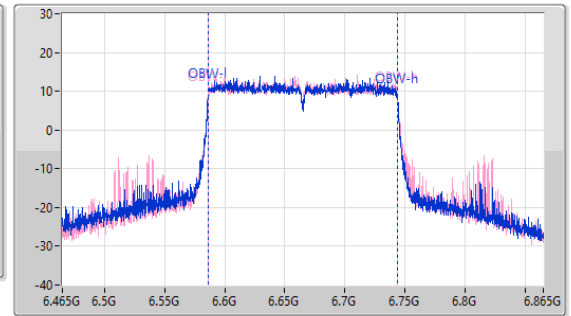
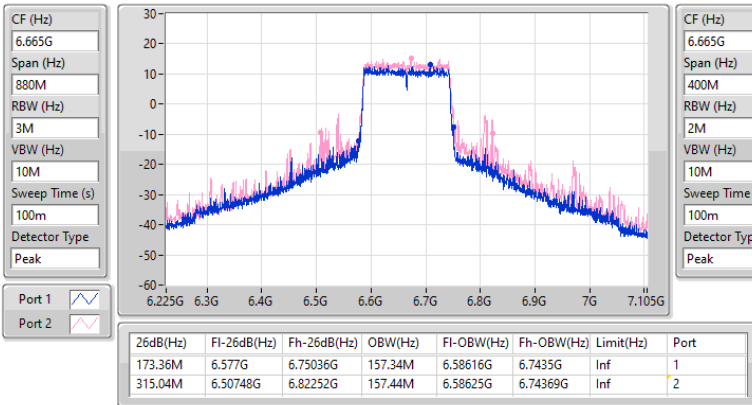


6.525-6.875GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6665MHz

30/12/2023

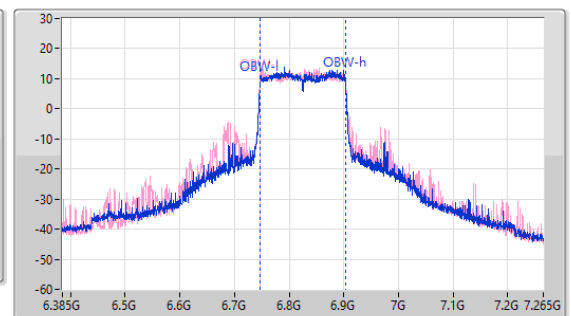
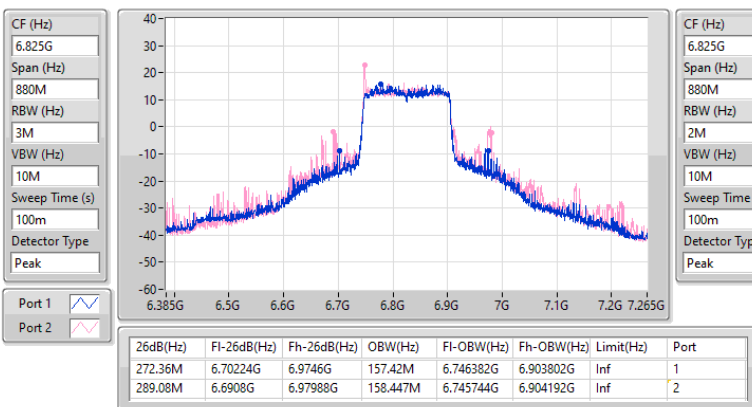


6.525-6.875GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6825MHz Straddle 6.525-6.875GHz

30/12/2023

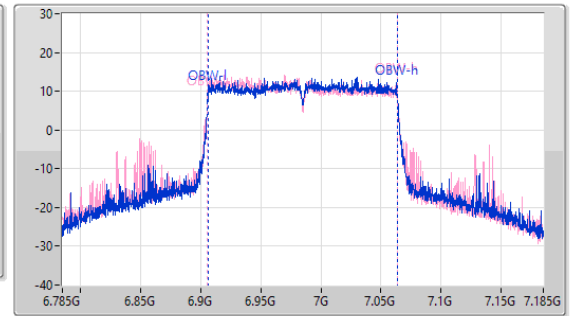
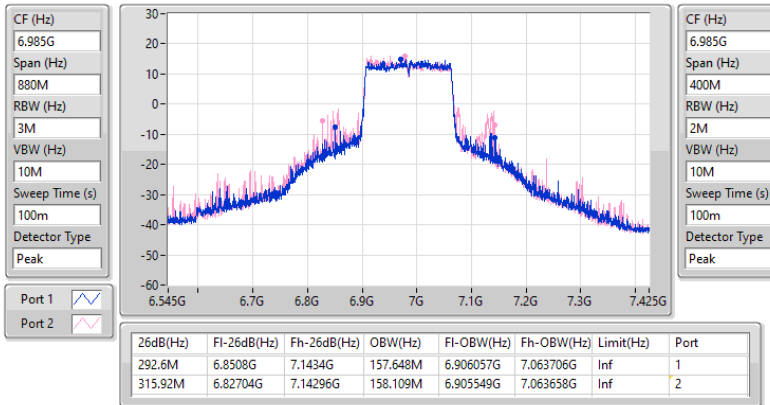


6.875-7.125GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6985MHz

30/12/2023

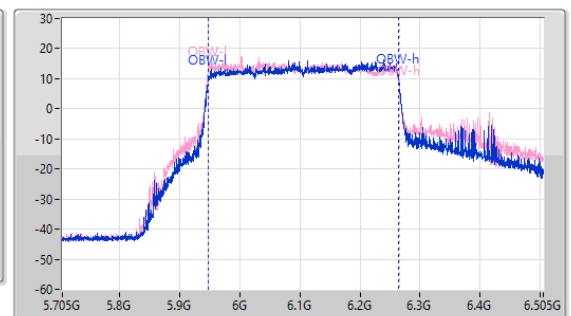
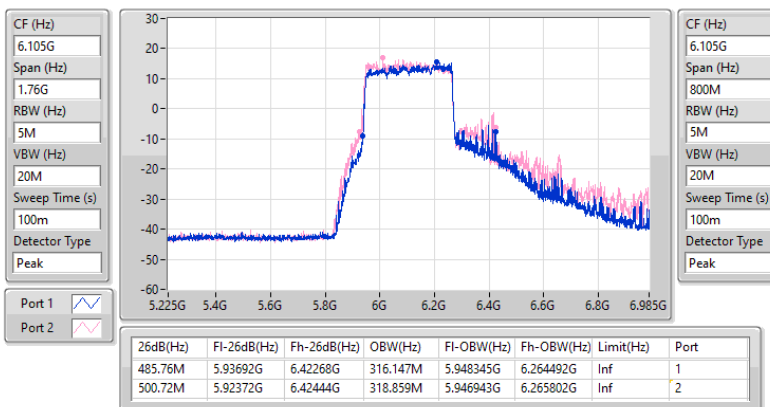


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6105MHz

30/12/2023

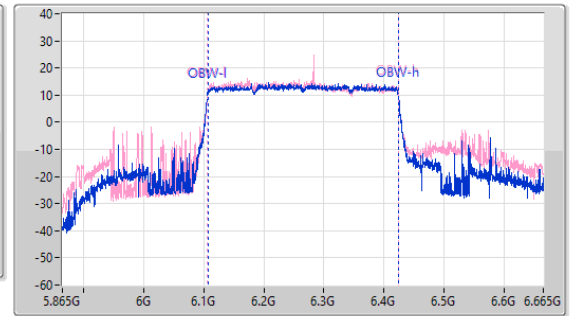
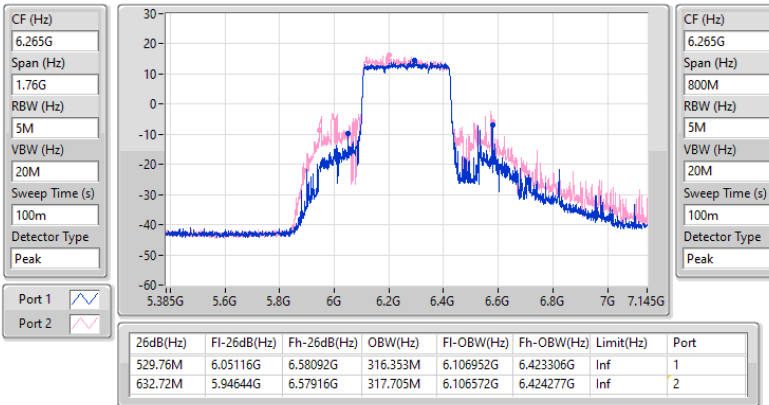


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6265MHz

30/12/2023

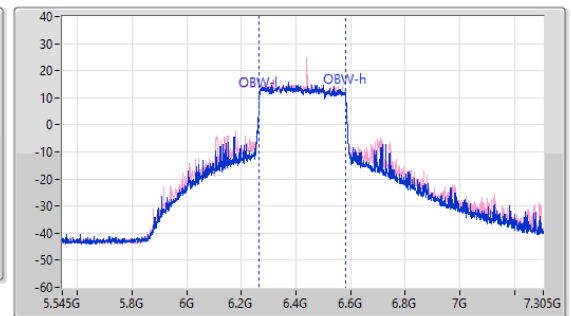
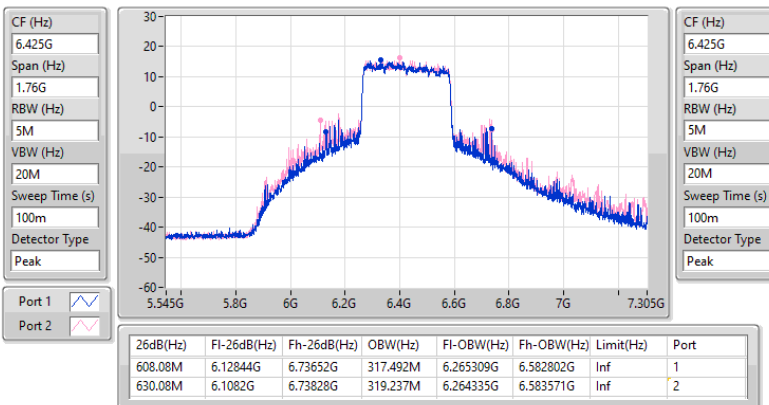


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6425MHz Straddle 5.925-6.425GHz

30/12/2023

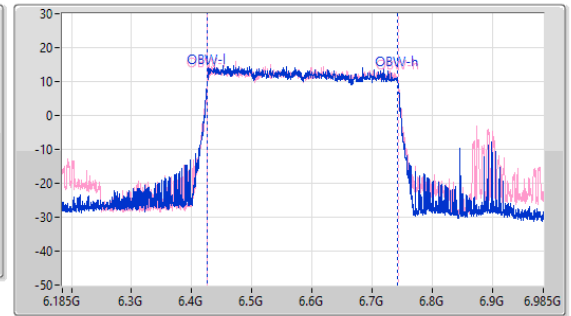
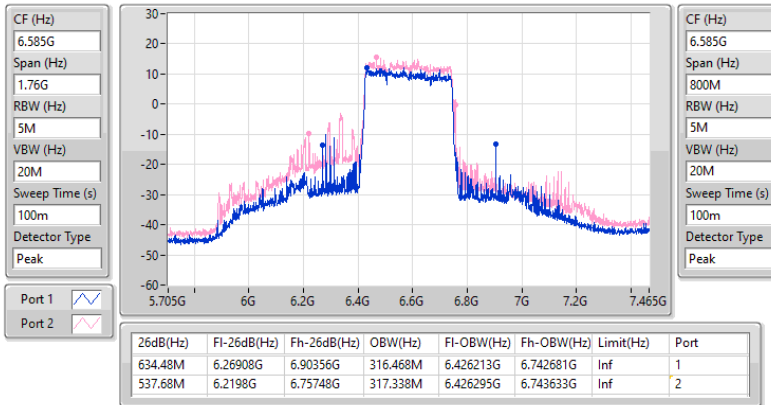


6.425-6.525GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6585MHz

30/12/2023

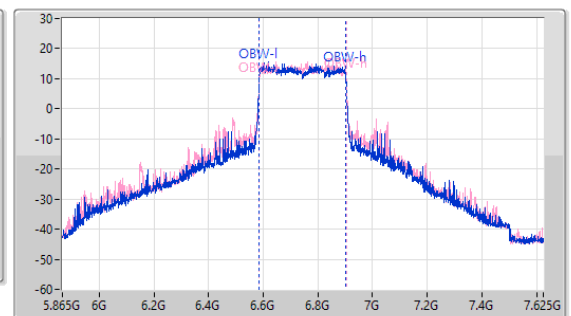
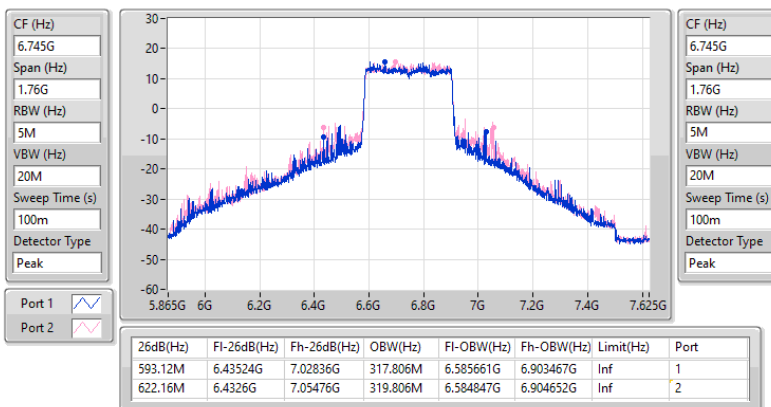


6.525-6.875GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6745MHz Straddle 6.525-6.875GHz

30/12/2023

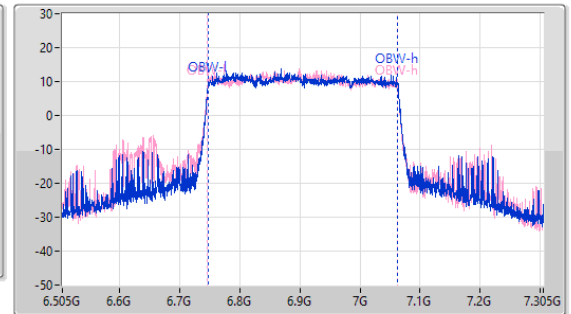
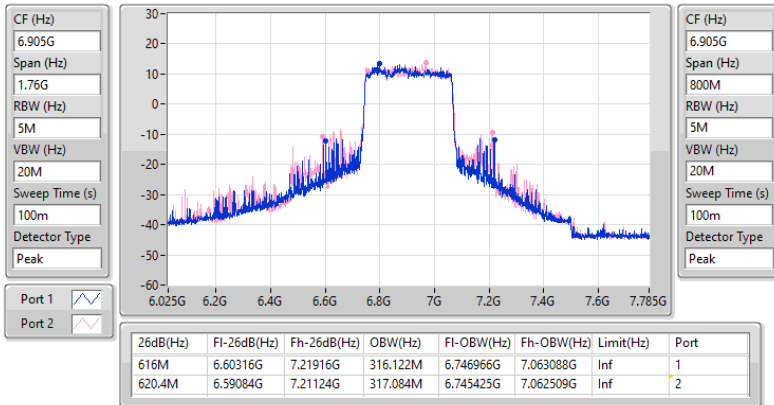


6.525-6.875GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6905MHz

30/12/2023



Summary

Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	17.31	0.05383
802.11be EHT40_Nss1,(MCS0)_2TX	18.30	0.06761
802.11be EHT80_Nss1,(MCS0)_2TX	21.70	0.14791
802.11be EHT160_Nss1,(MCS0)_2TX	24.42	0.27669
802.11be EHT320_Nss1,(MCS0)_2TX	26.84	0.48306
6.425-6.525GHz	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	16.72	0.04699
802.11be EHT40_Nss1,(MCS0)_2TX	18.43	0.06966
802.11be EHT80_Nss1,(MCS0)_2TX	23.61	0.22961
802.11be EHT160_Nss1,(MCS0)_2TX	24.58	0.28708
802.11be EHT320_Nss1,(MCS0)_2TX	26.53	0.44978
6.525-6.875GHz	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	15.25	0.03350
802.11be EHT40_Nss1,(MCS0)_2TX	18.78	0.07551
802.11be EHT80_Nss1,(MCS0)_2TX	21.41	0.13836
802.11be EHT160_Nss1,(MCS0)_2TX	24.07	0.25527
802.11be EHT320_Nss1,(MCS0)_2TX	26.76	0.47424
6.875-7.125GHz	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	16.12	0.04093
802.11be EHT40_Nss1,(MCS0)_2TX	18.19	0.06592
802.11be EHT80_Nss1,(MCS0)_2TX	21.55	0.14289
802.11be EHT160_Nss1,(MCS0)_2TX	24.44	0.27797



Radiated EIRP_For Non-beamforming mode

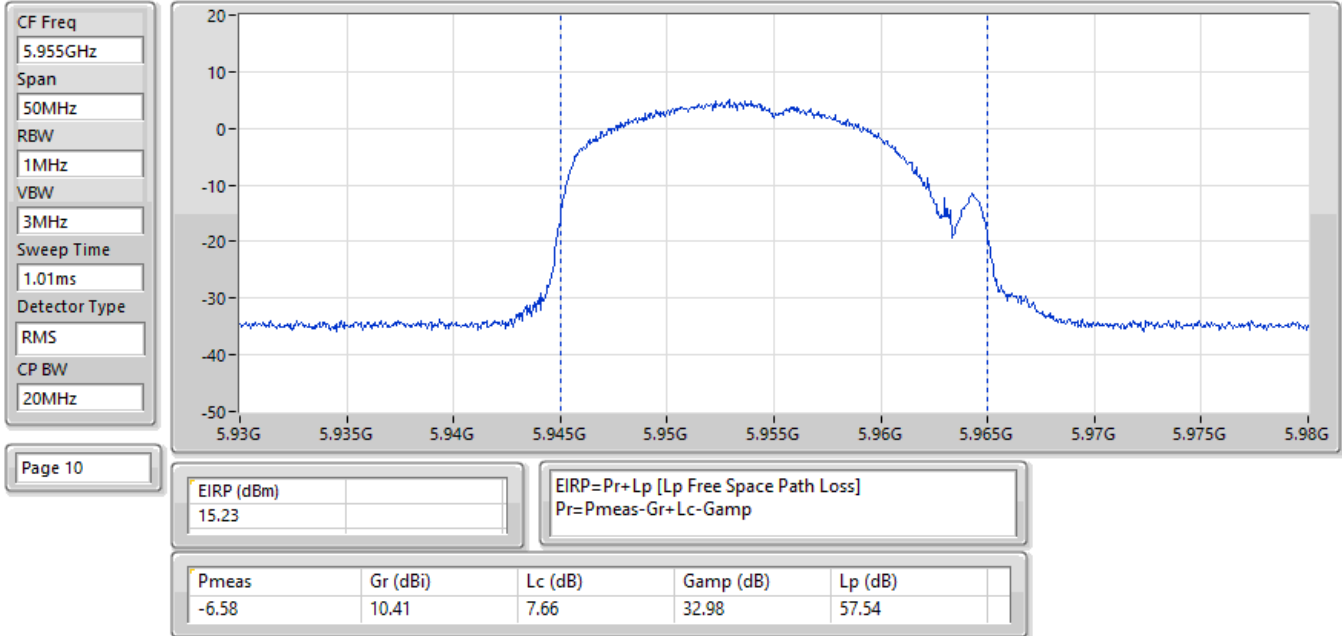
Appendix C.1

Result

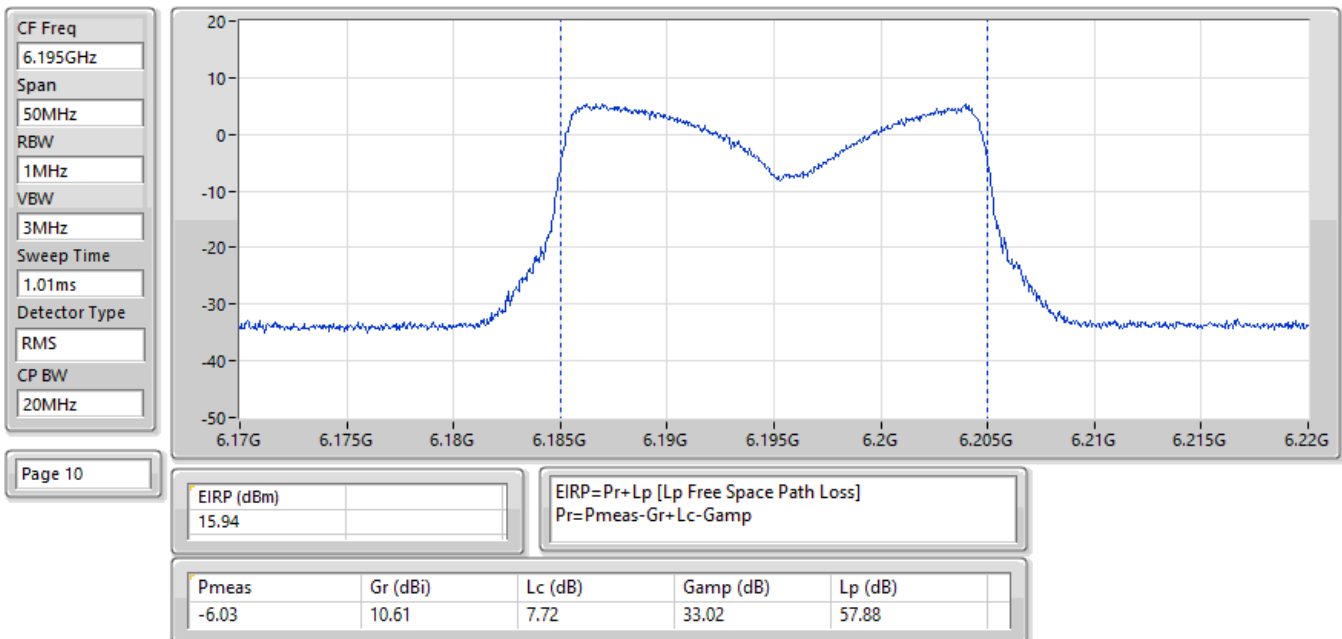
Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-
5955MHz	Pass	15.23	30.00
6195MHz	Pass	15.94	30.00
6415MHz	Pass	17.31	30.00
6435MHz	Pass	16.72	30.00
6475MHz	Pass	14.45	30.00
6515MHz	Pass	13.52	30.00
6535MHz	Pass	12.93	30.00
6695MHz	Pass	13.45	30.00
6875MHz Straddle 6.525-6.875GHz	Pass	15.25	30.00
6895MHz	Pass	15.65	30.00
6995MHz	Pass	15.05	30.00
7095MHz	Pass	15.60	30.00
7115MHz	Pass	16.12	30.00
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-
5965MHz	Pass	18.00	30.00
6205MHz	Pass	18.12	30.00
6405MHz	Pass	18.30	30.00
6445MHz	Pass	18.43	30.00
6485MHz	Pass	15.10	30.00
6525MHz Straddle 6.425-6.525GHz	Pass	16.24	30.00
6565MHz	Pass	18.78	30.00
6685MHz	Pass	17.92	30.00
6885MHz Straddle 6.525-6.875GHz	Pass	18.21	30.00
6925MHz	Pass	18.19	30.00
7005MHz	Pass	17.78	30.00
7085MHz	Pass	18.01	30.00
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-
5985MHz	Pass	21.59	30.00
6225MHz	Pass	20.85	30.00
6385MHz	Pass	21.70	30.00
6465MHz	Pass	23.61	30.00
6545MHz Straddle 6.425-6.525GHz	Pass	21.75	30.00
6625MHz	Pass	20.99	30.00
6705MHz	Pass	21.41	30.00
6785MHz	Pass	21.13	30.00
6865MHz Straddle 6.525-6.875GHz	Pass	21.17	30.00
6945MHz	Pass	21.55	30.00
7025MHz	Pass	19.76	30.00
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-
6025MHz	Pass	24.38	30.00
6185MHz	Pass	24.42	30.00
6345MHz	Pass	23.30	30.00
6505MHz Straddle 6.425-6.525GHz	Pass	24.58	30.00
6665MHz	Pass	24.07	30.00
6825MHz Straddle 6.525-6.875GHz	Pass	23.99	30.00
6985MHz	Pass	24.44	30.00
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-
6105MHz	Pass	26.84	30.00
6265MHz	Pass	26.78	30.00
6425MHz Straddle 5.925-6.425GHz	Pass	25.18	30.00
6585MHz	Pass	26.53	30.00
6745MHz Straddle 6.525-6.875GHz	Pass	26.76	30.00
6905MHz	Pass	23.77	30.00

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

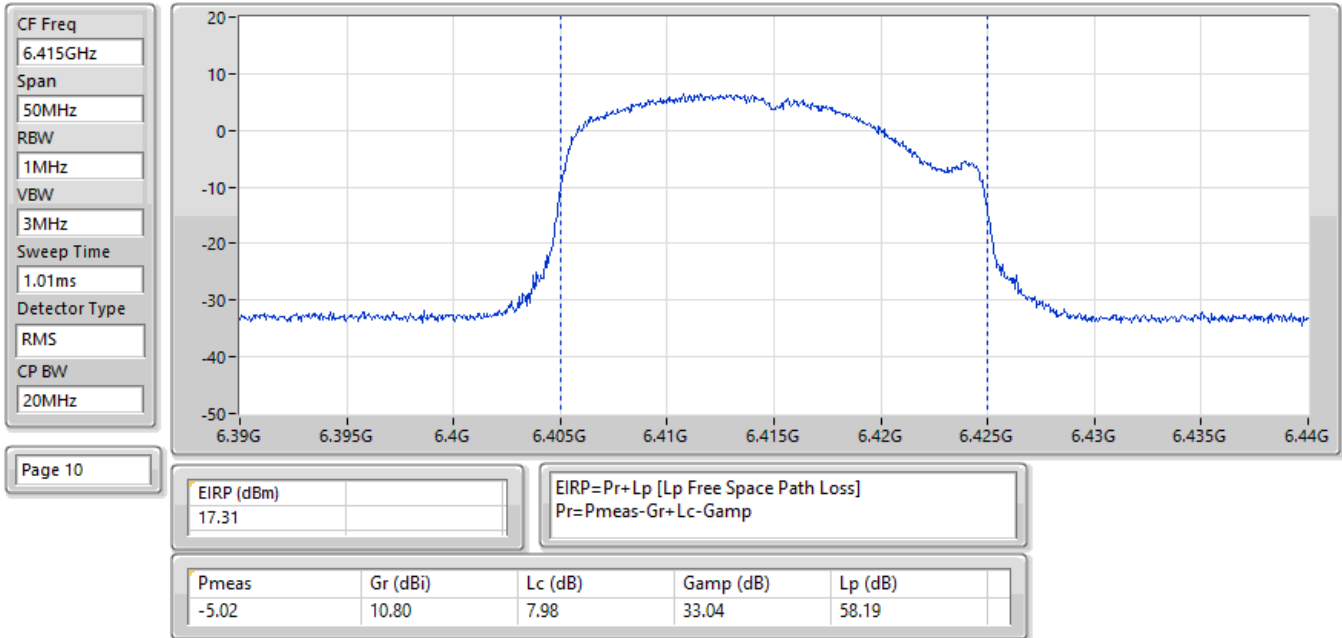
EIRP;Band:6.2G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:5955MHz;TX



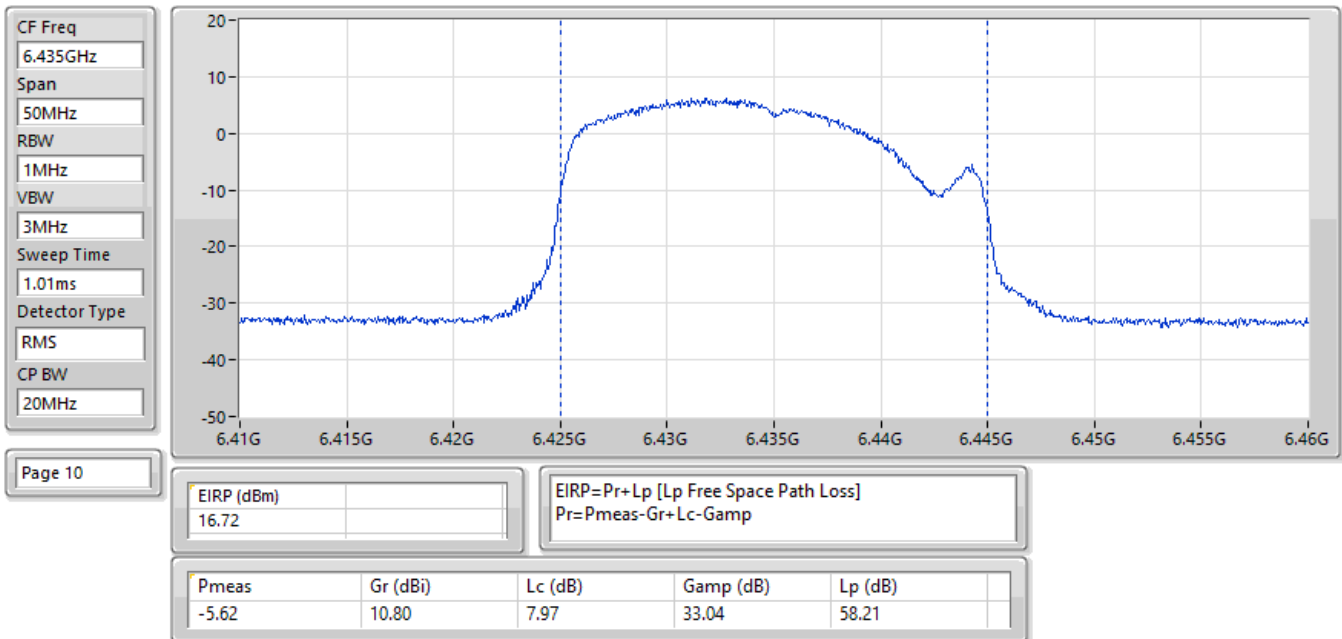
EIRP;Band:6.2G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6195MHz;TX



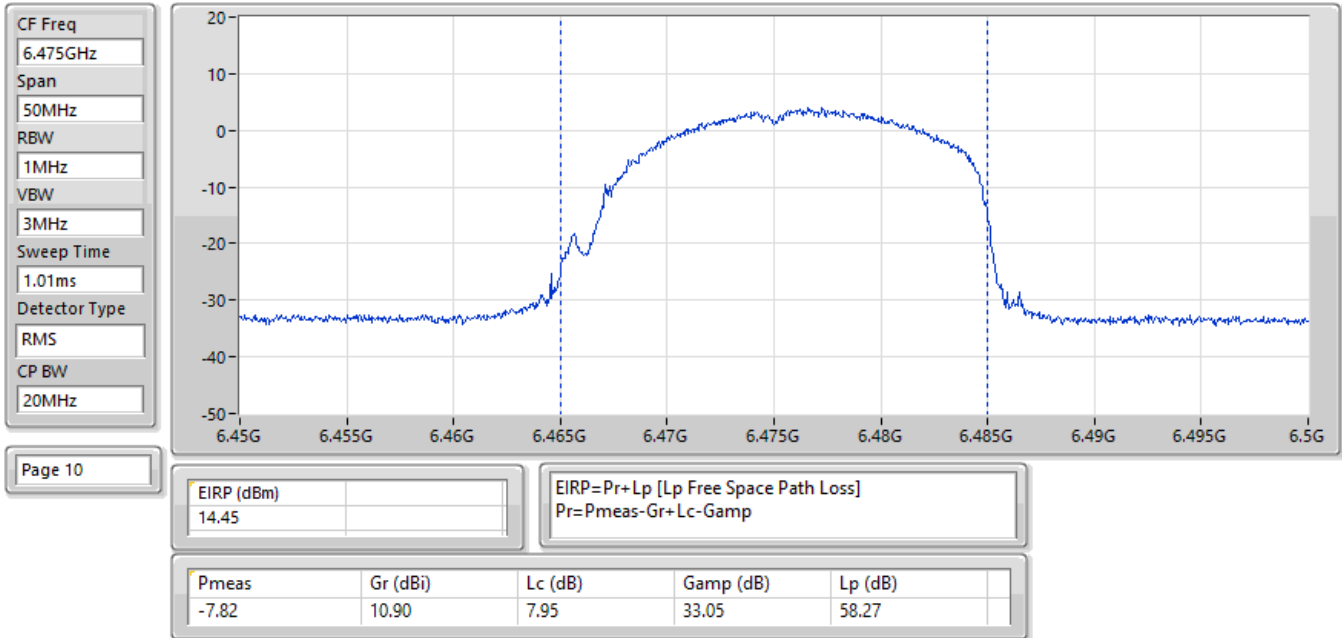
EIRP:Band:6.2G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6415MHz;TX



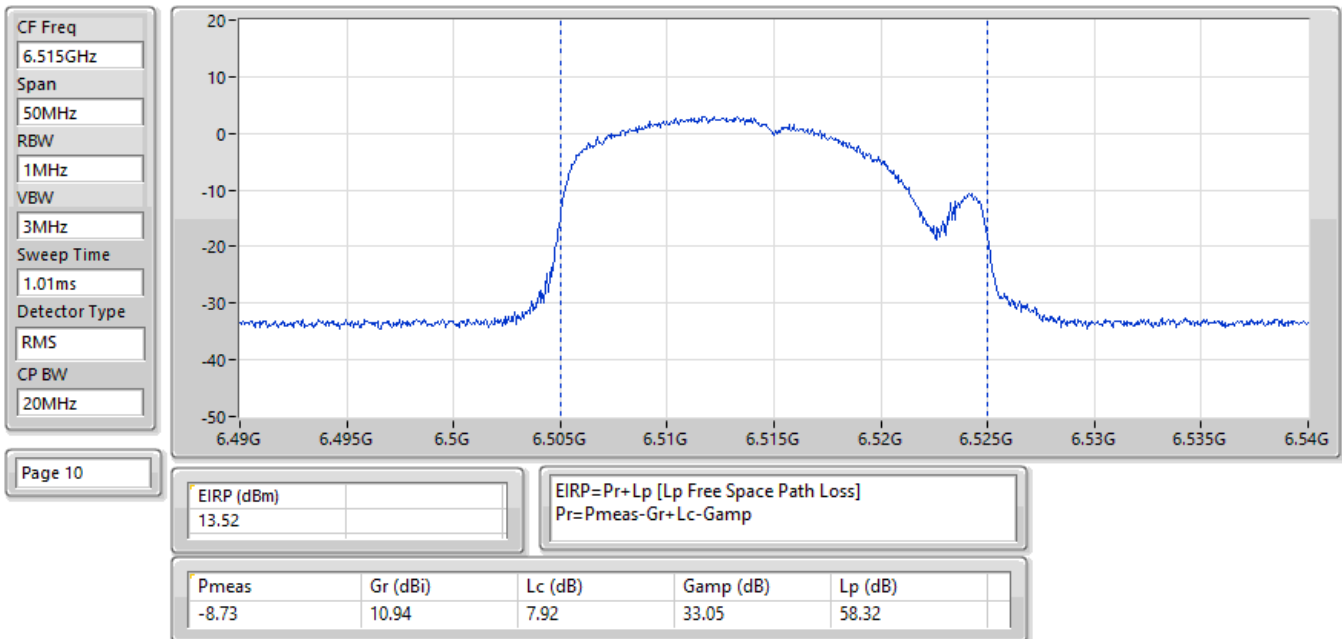
EIRP:Band:6.4G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6435MHz;TX



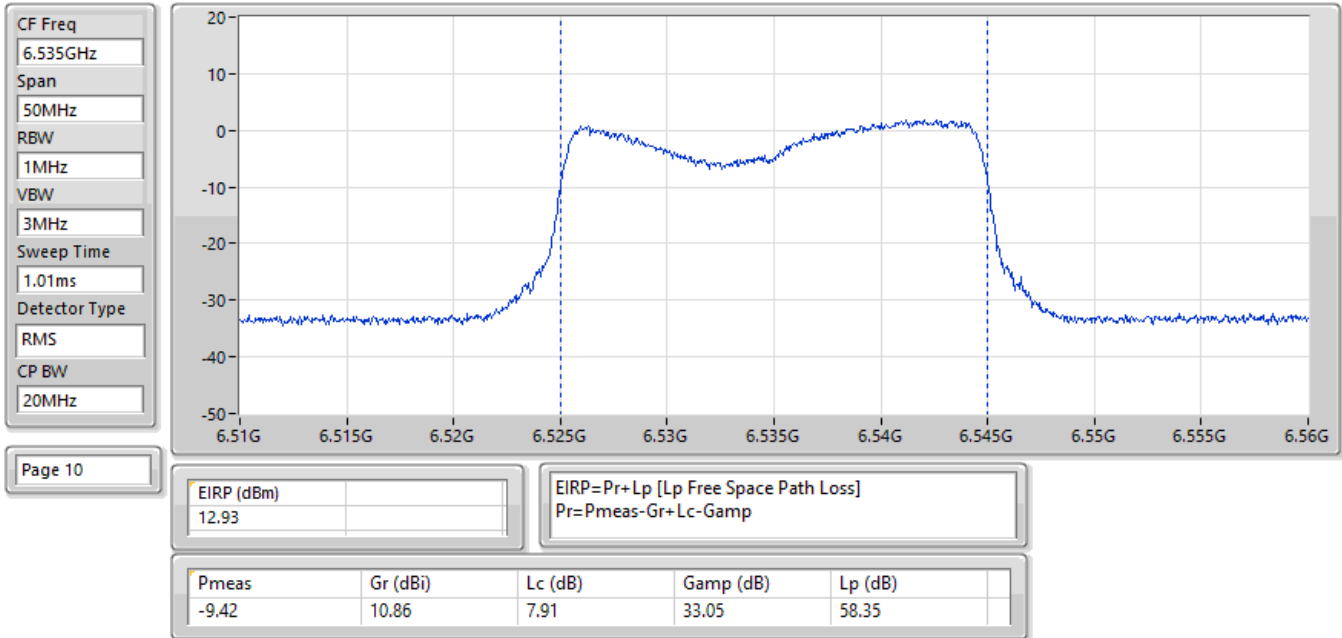
EIRP:Band:6.4G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6475MHz;TX



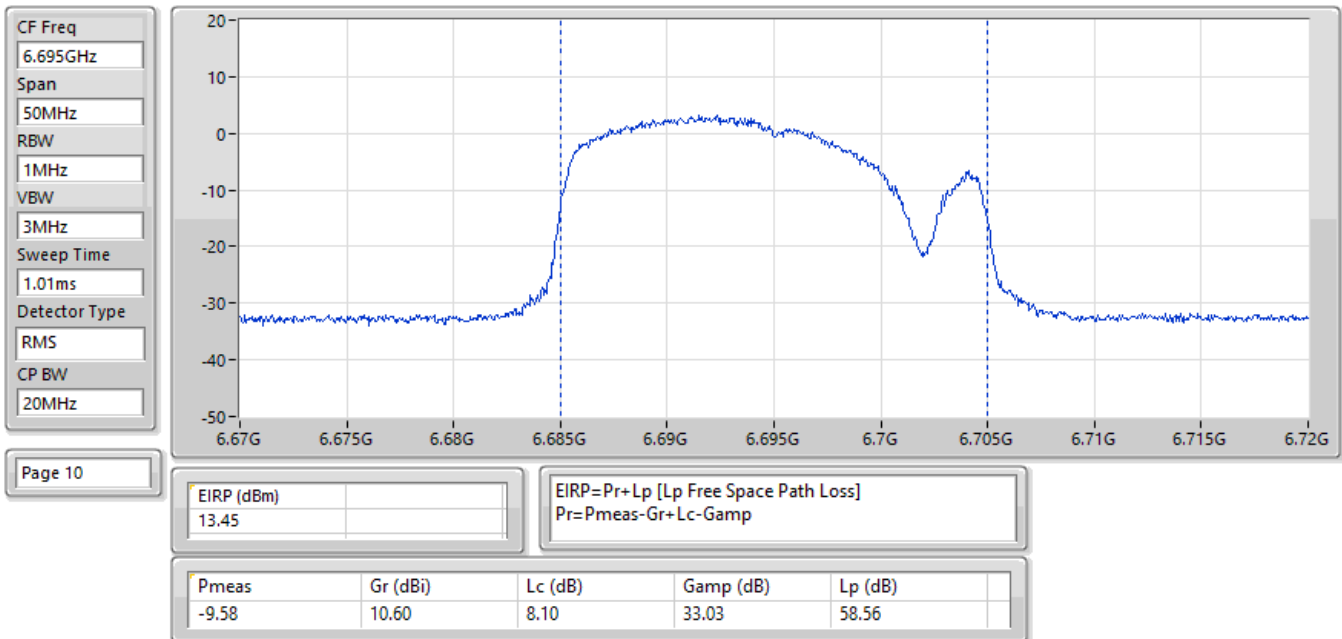
EIRP:Band:6.4G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6515MHz;TX



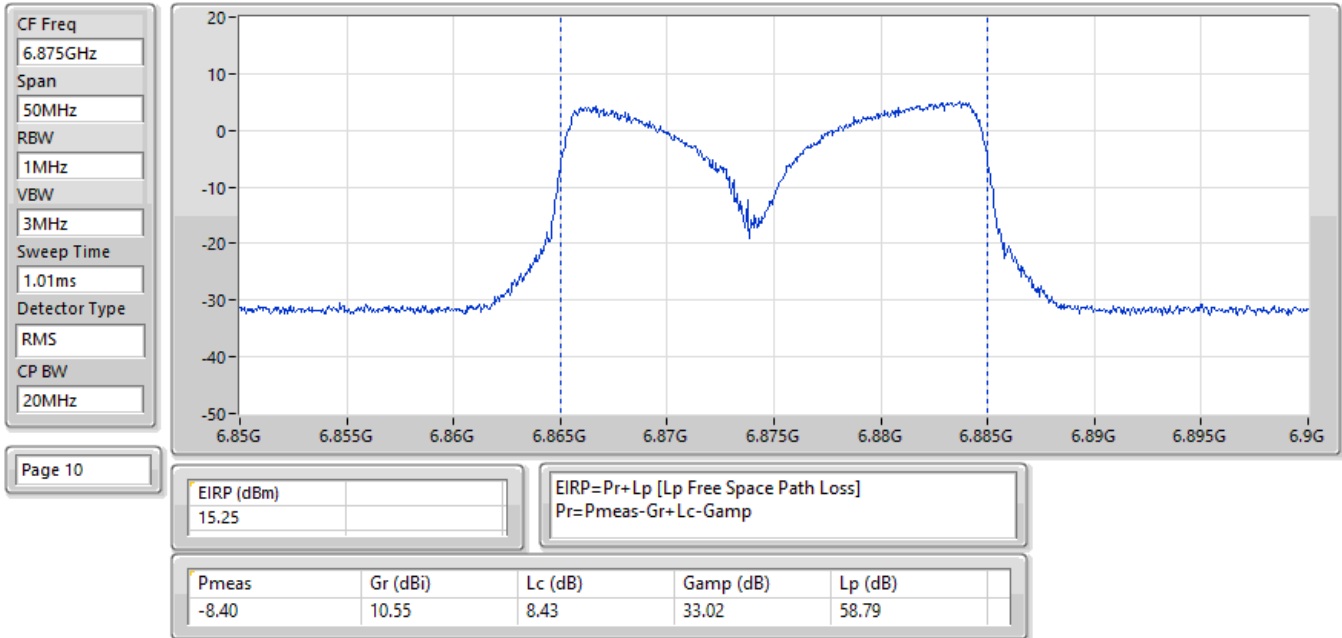
EIRP:Band:6.7G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6535MHz;TX



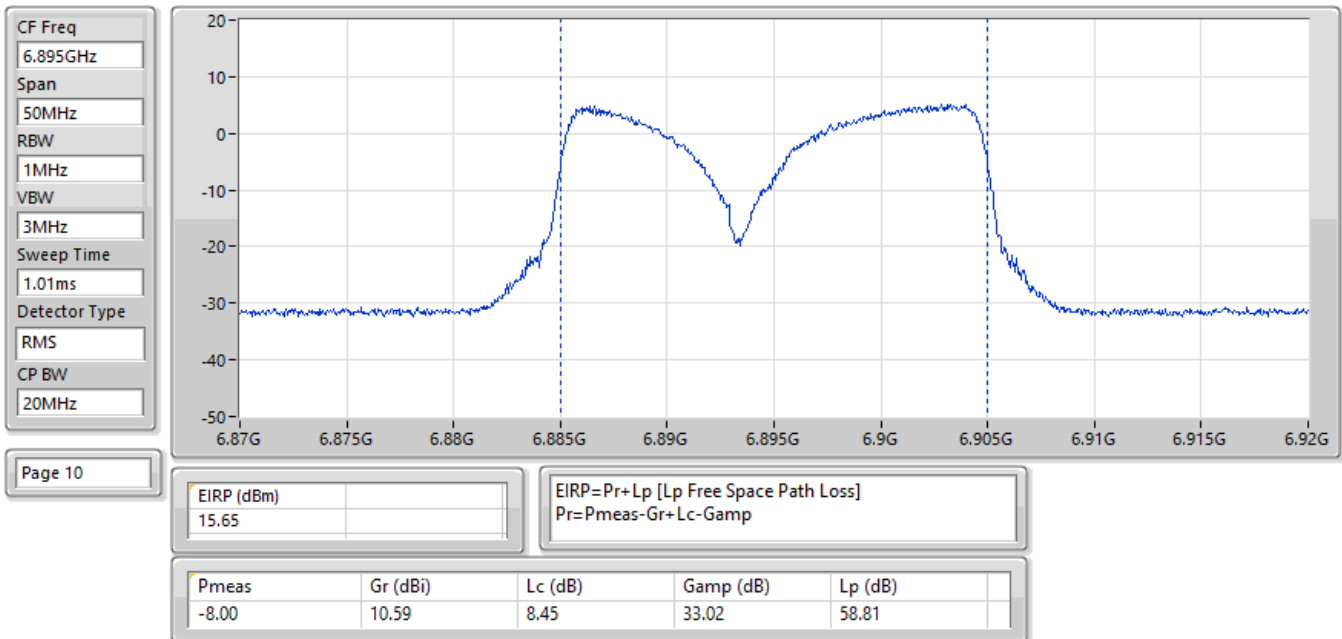
EIRP:Band:6.7G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6695MHz;TX



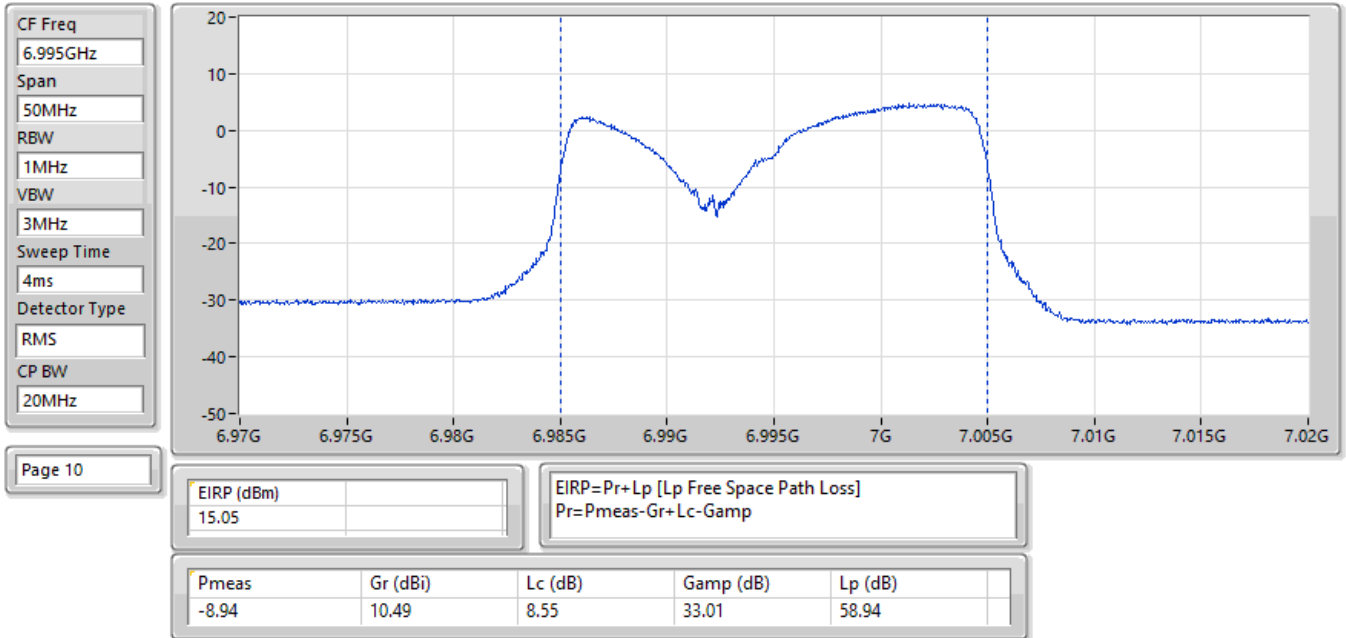
EIRP:Band:6.7G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6875MHz;TX



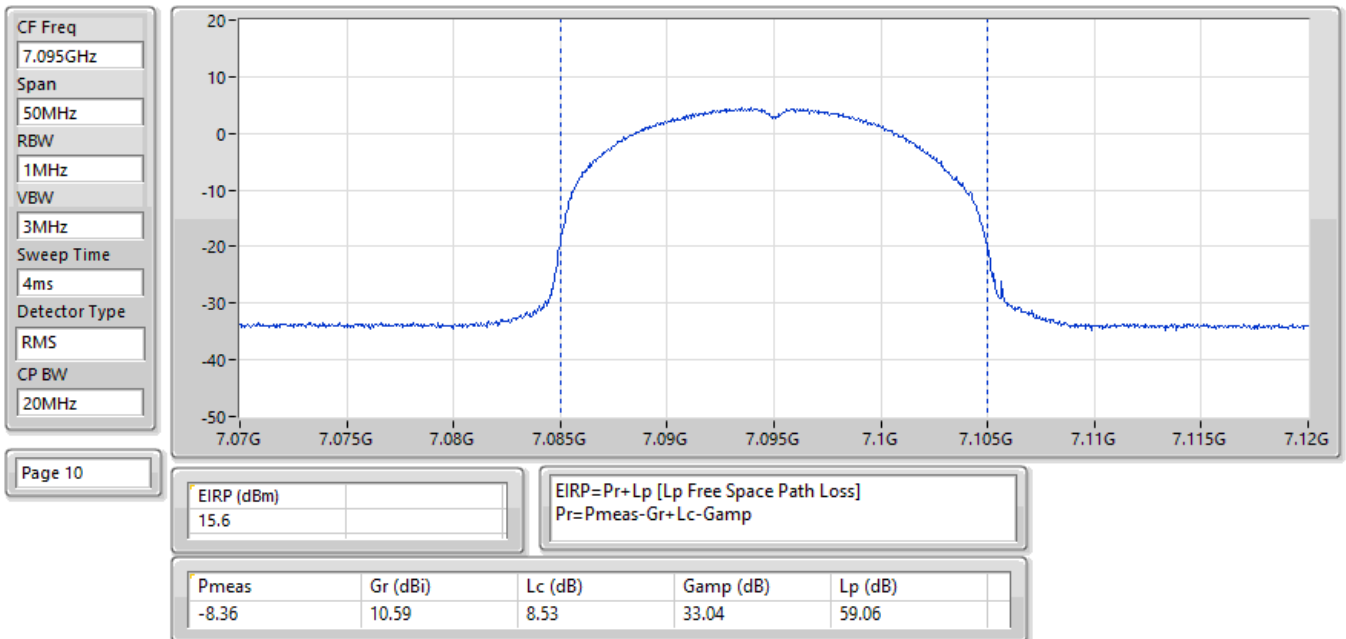
EIRP:Band:7.0G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6895MHz;TX



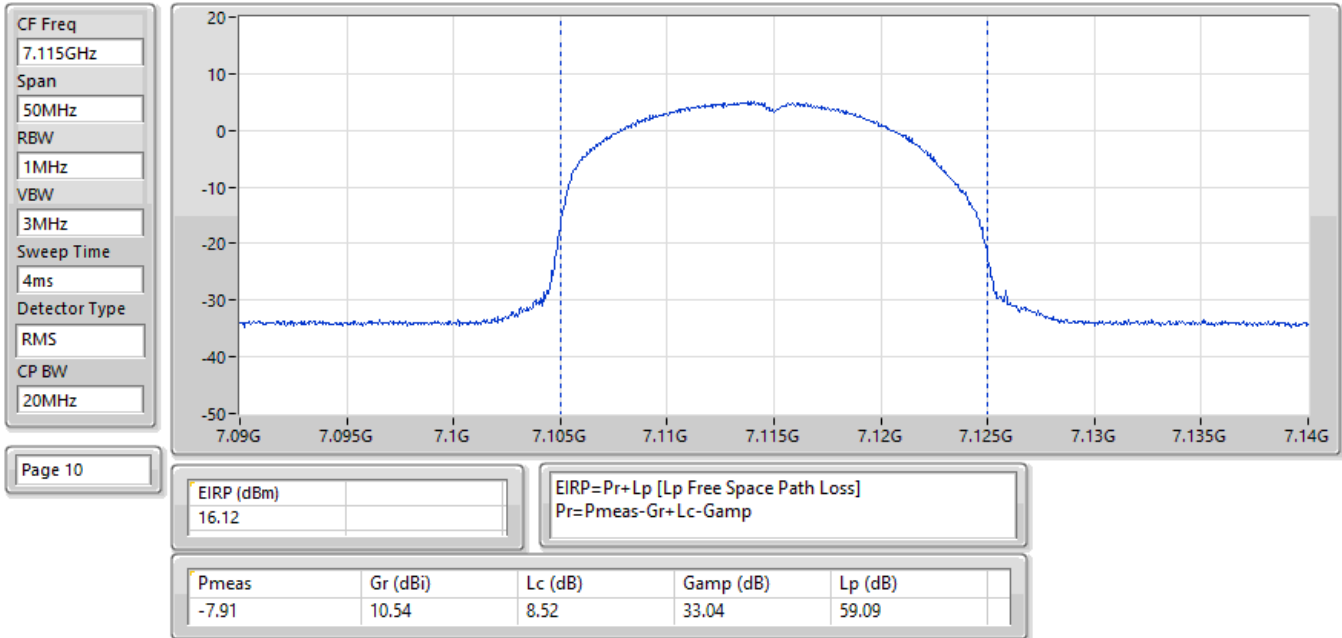
EIRP:Band:7.0G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6995MHz;TX



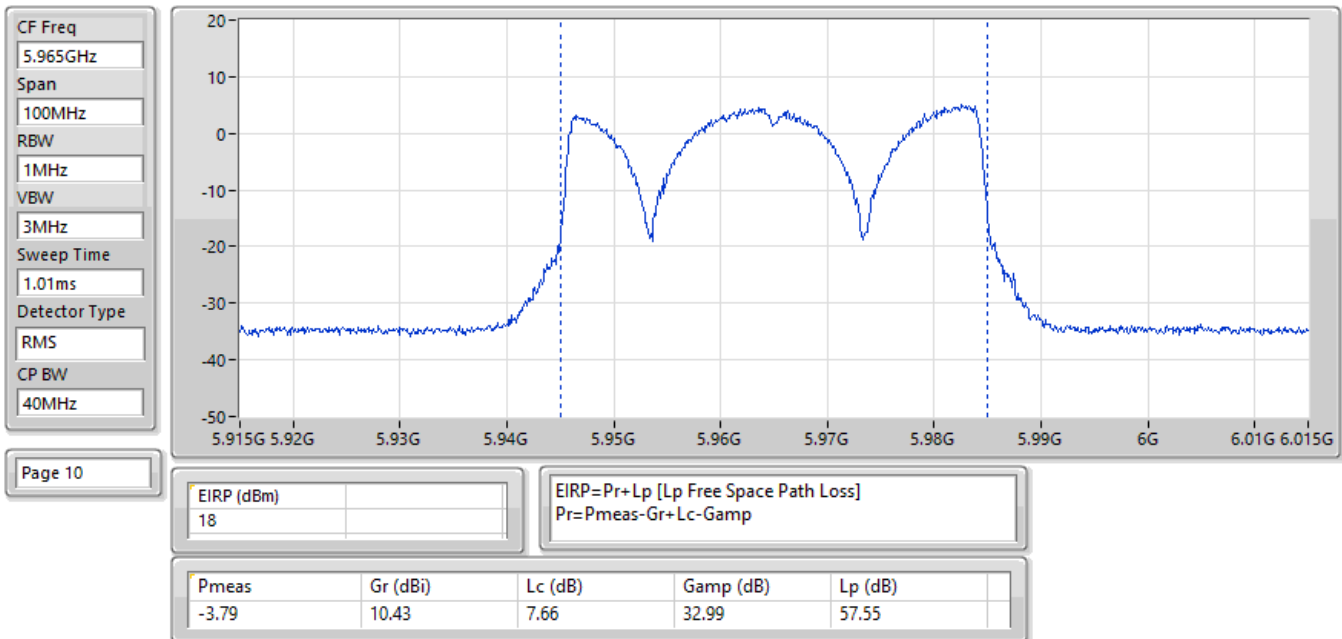
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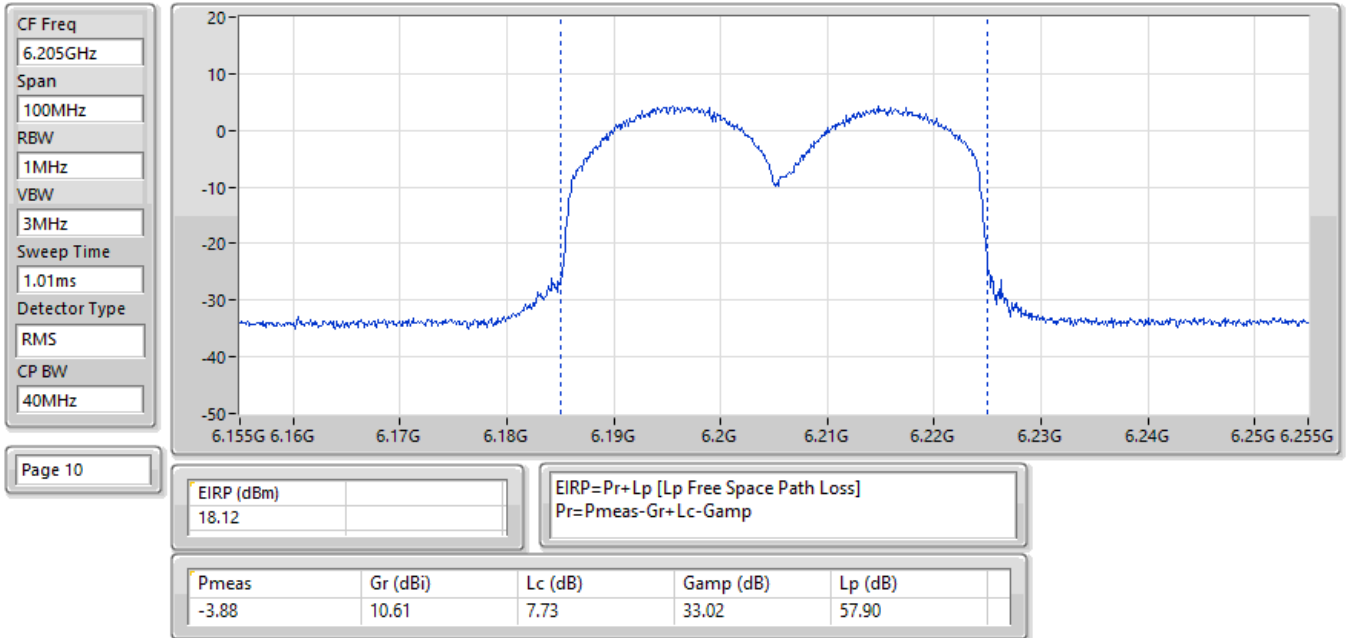
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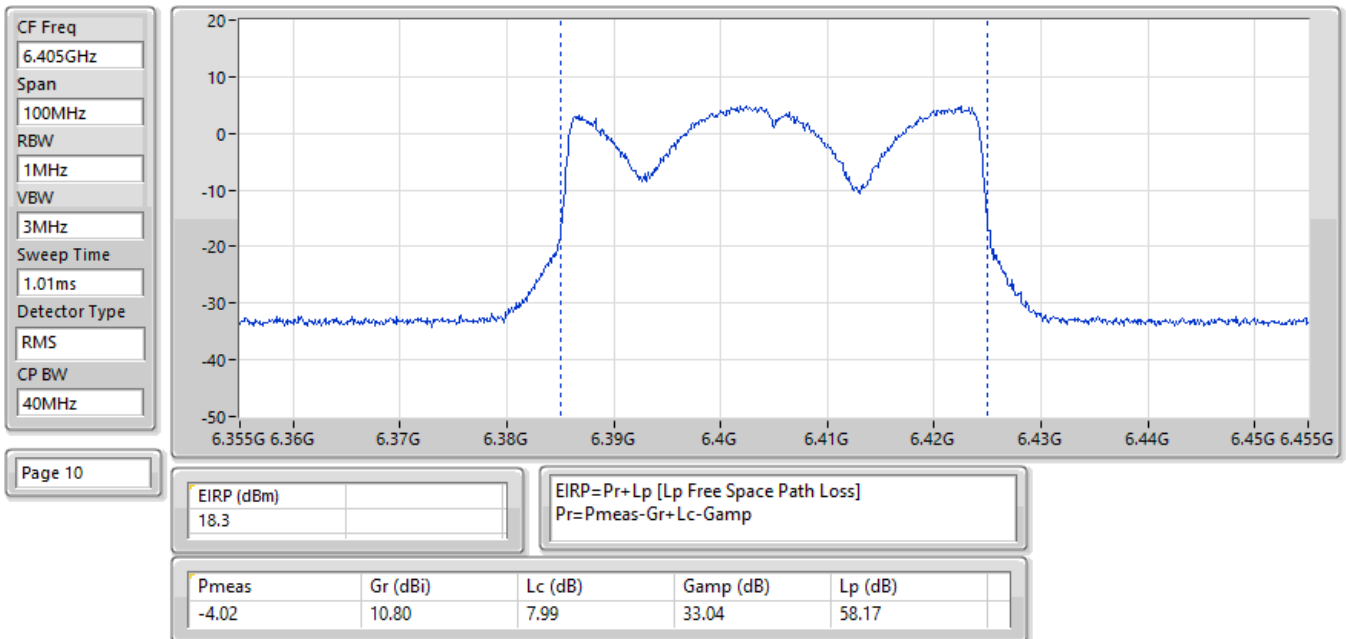
EIRP:Band:6.2G;be40;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:5965MHz;TX



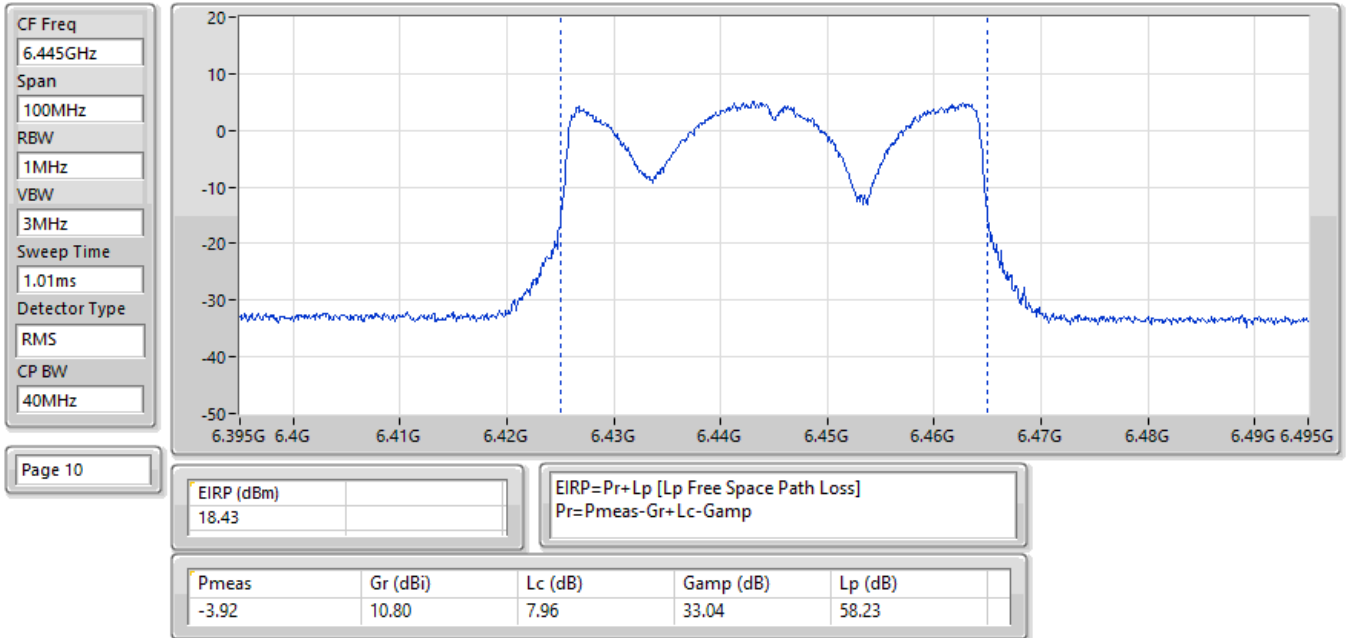
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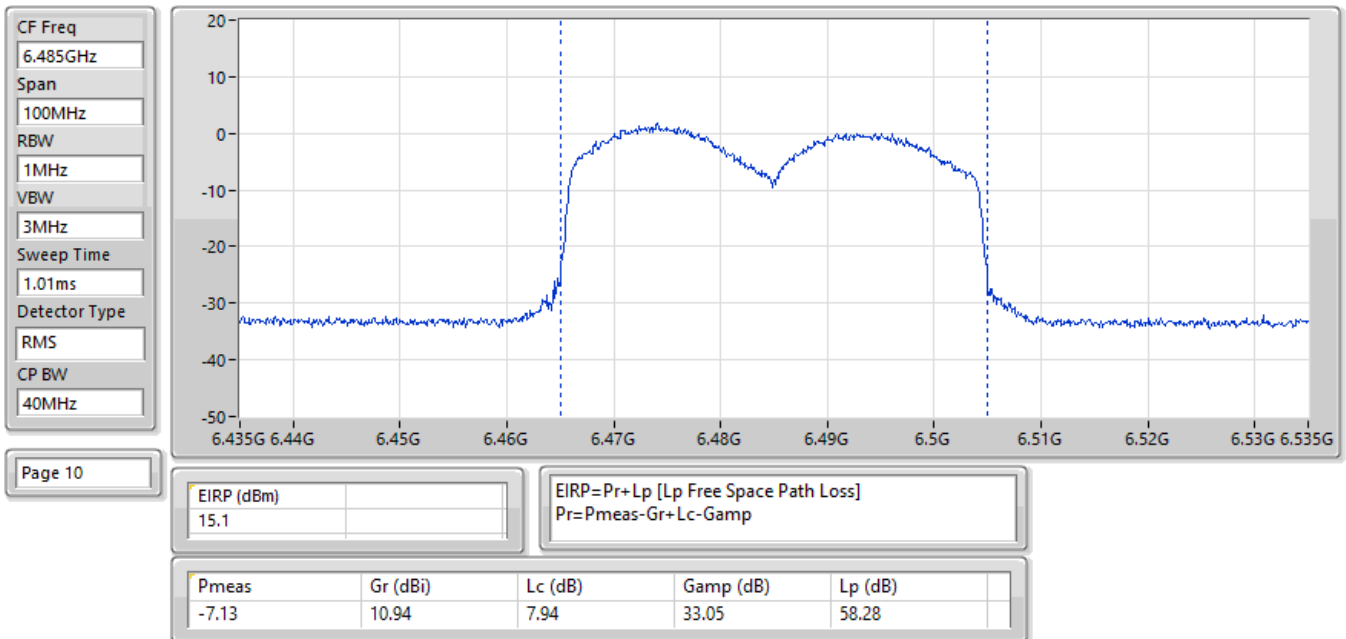
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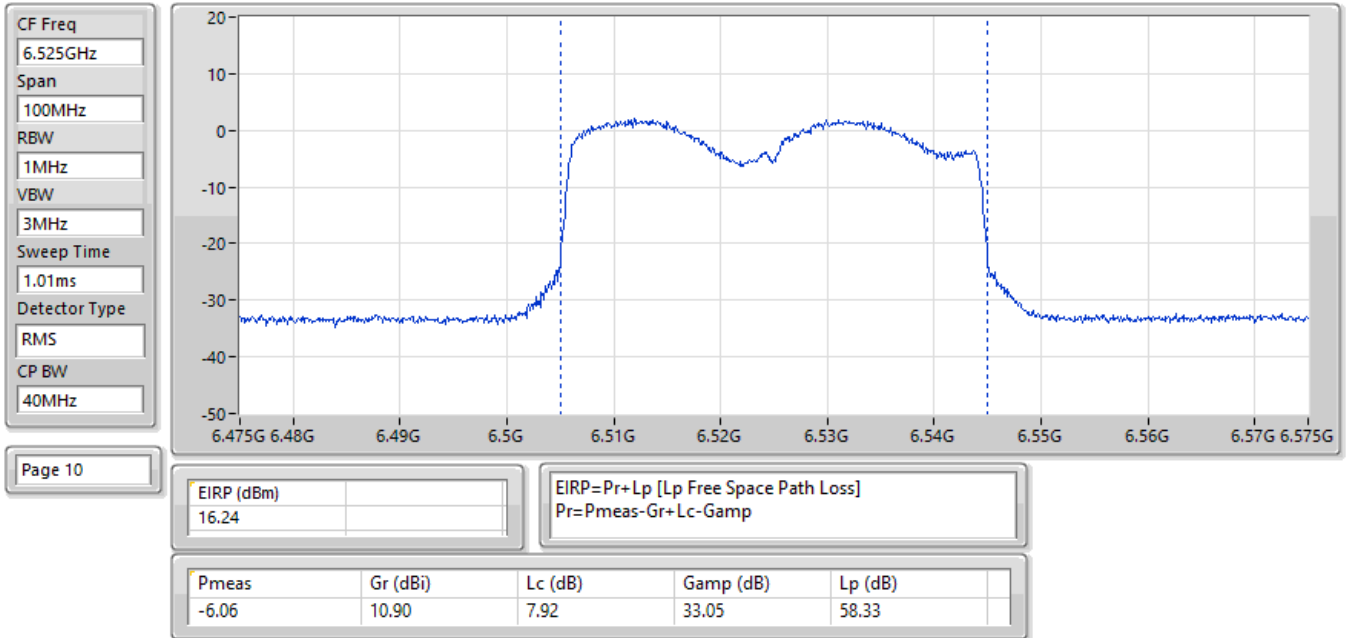
EIRP:Band:6.4G;be40;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:6445MHz;TX



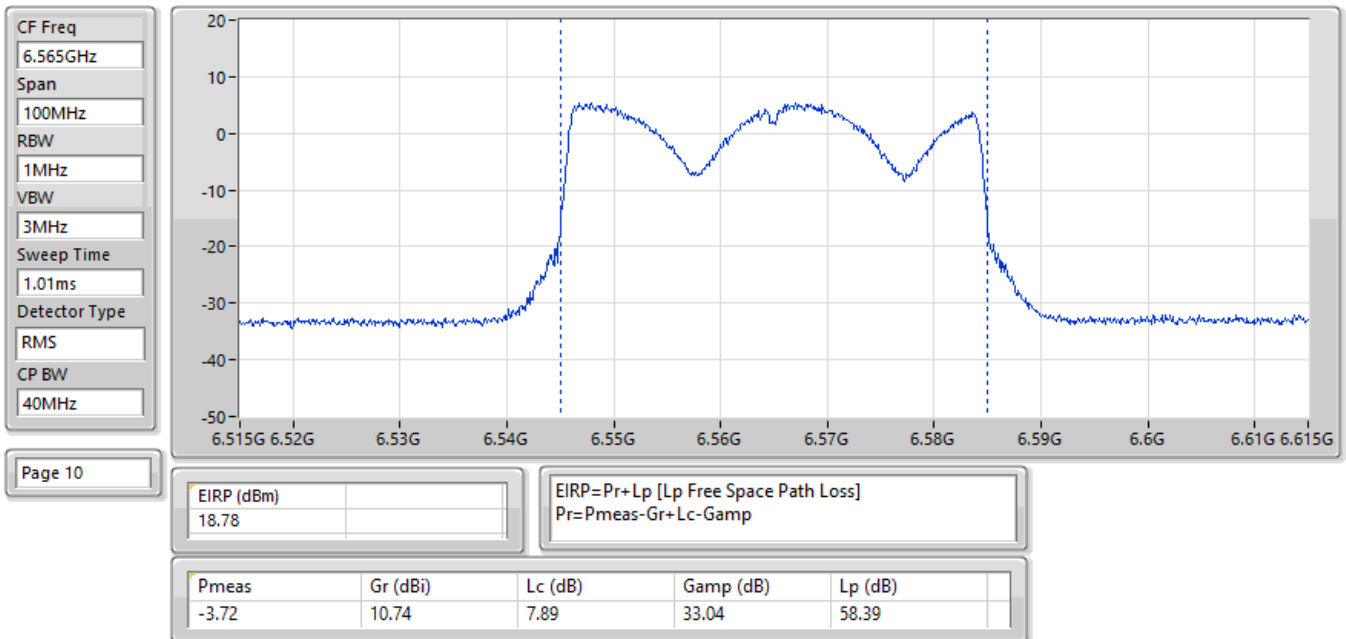
EIRP:Band:6.4G;be40;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:6485MHz;TX



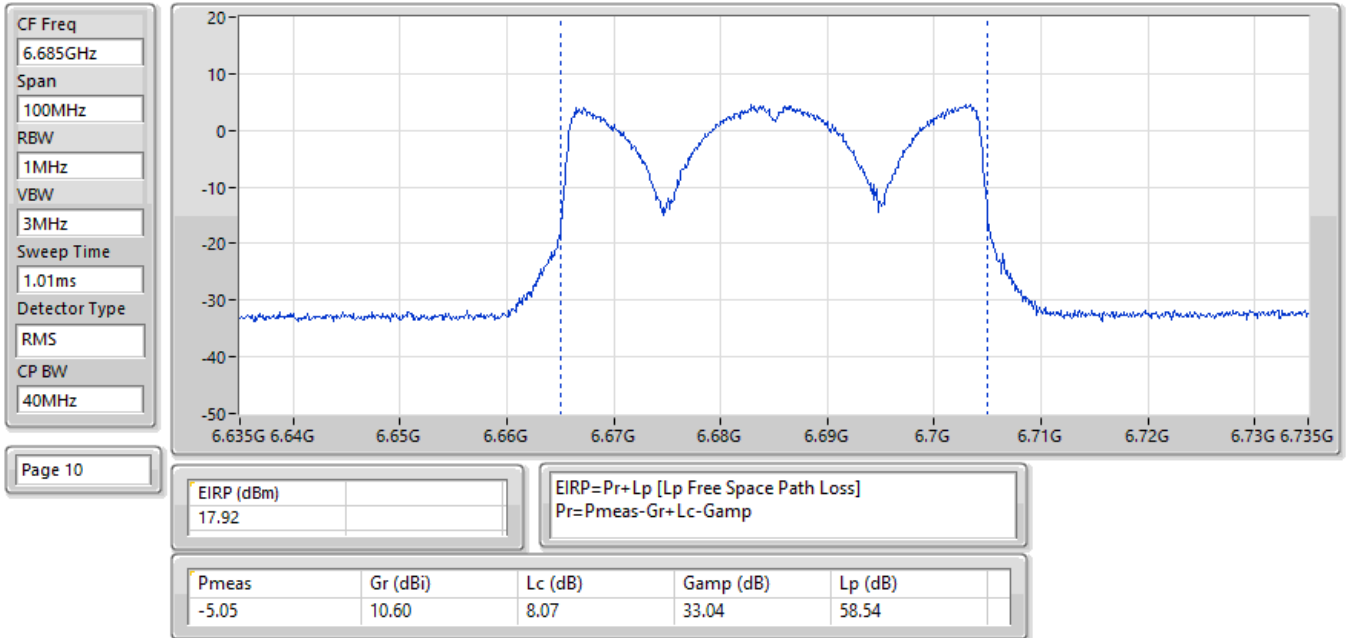
EIRP:Band:6.4G;be40;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:6525MHz;TX



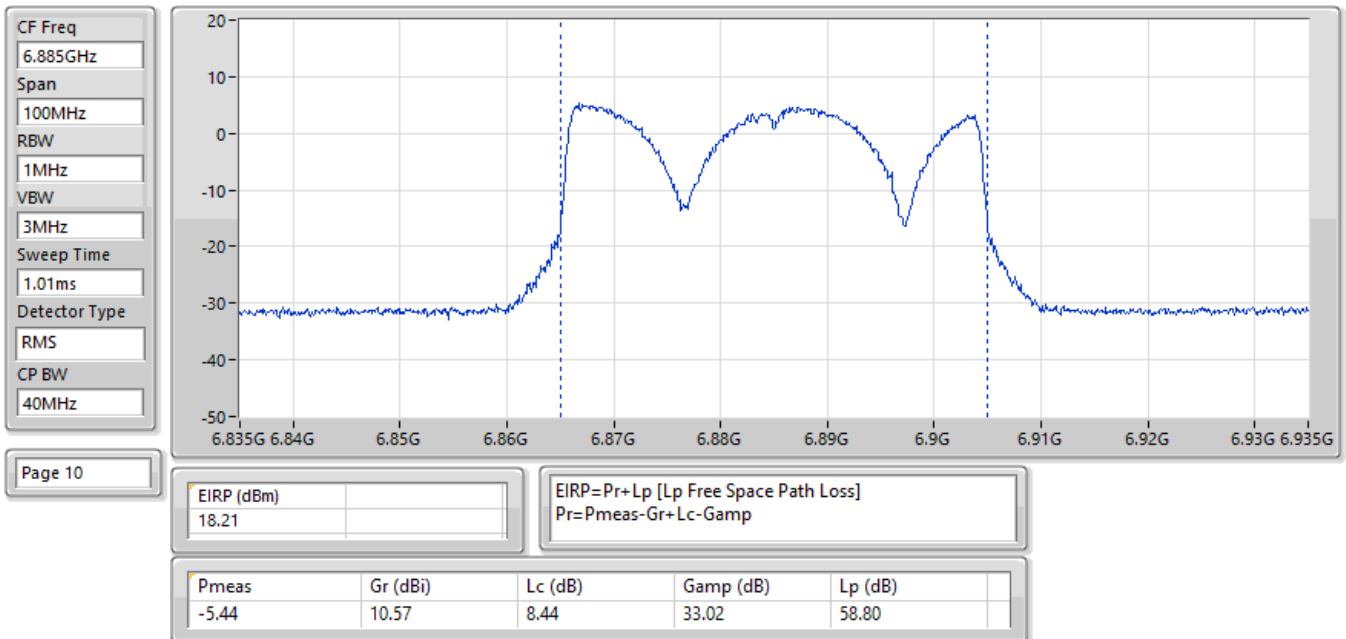
EIRP:Band:6.7G;be40;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:6565MHz;TX



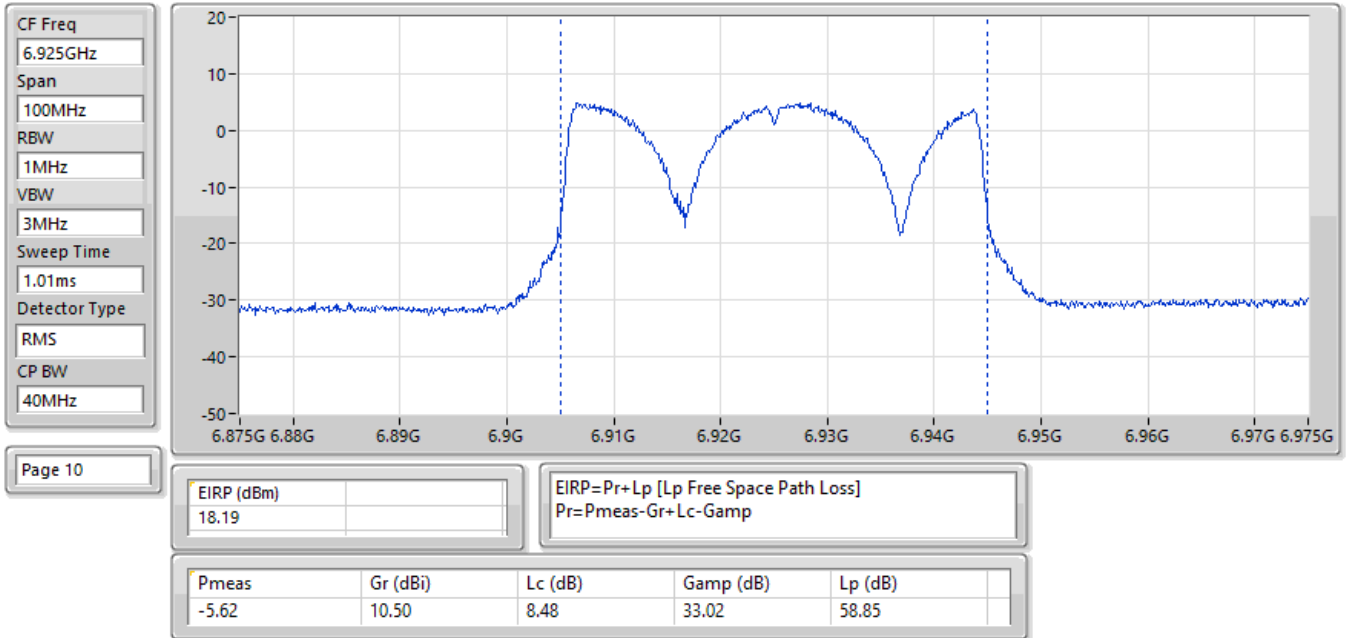
EIRP:Band:6.7G;be40;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:6685MHz;TX



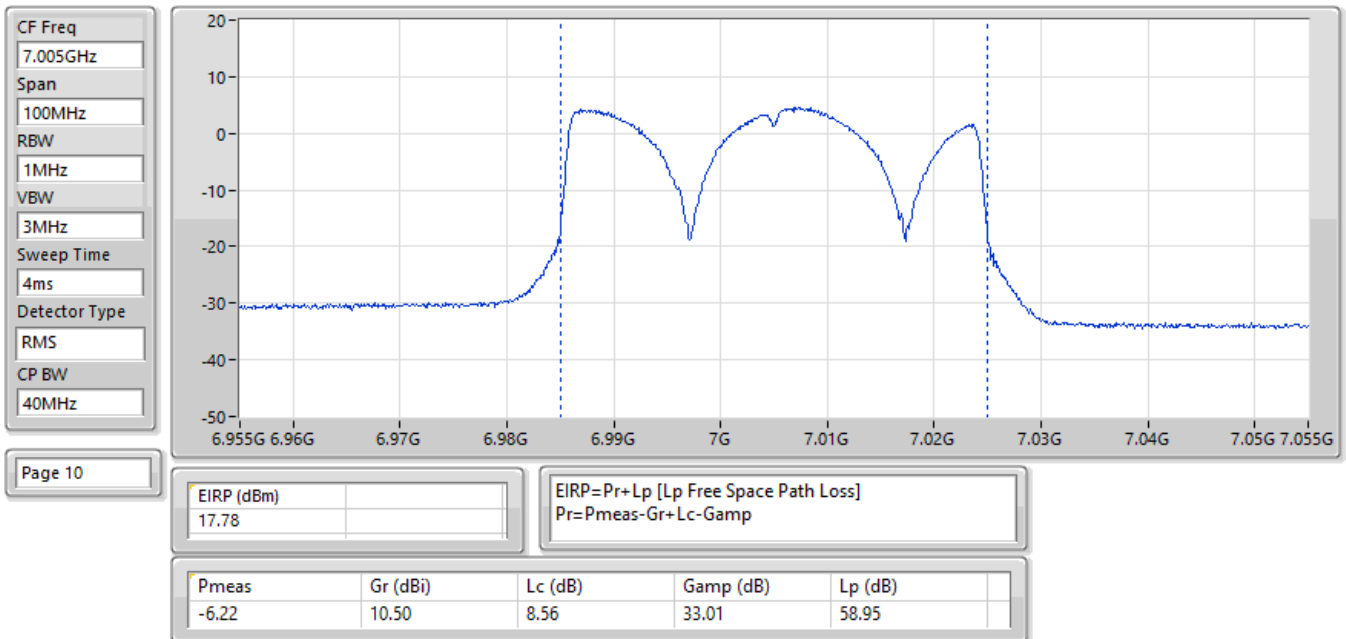
EIRP:Band:6.7G;be40;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:6885MHz;TX



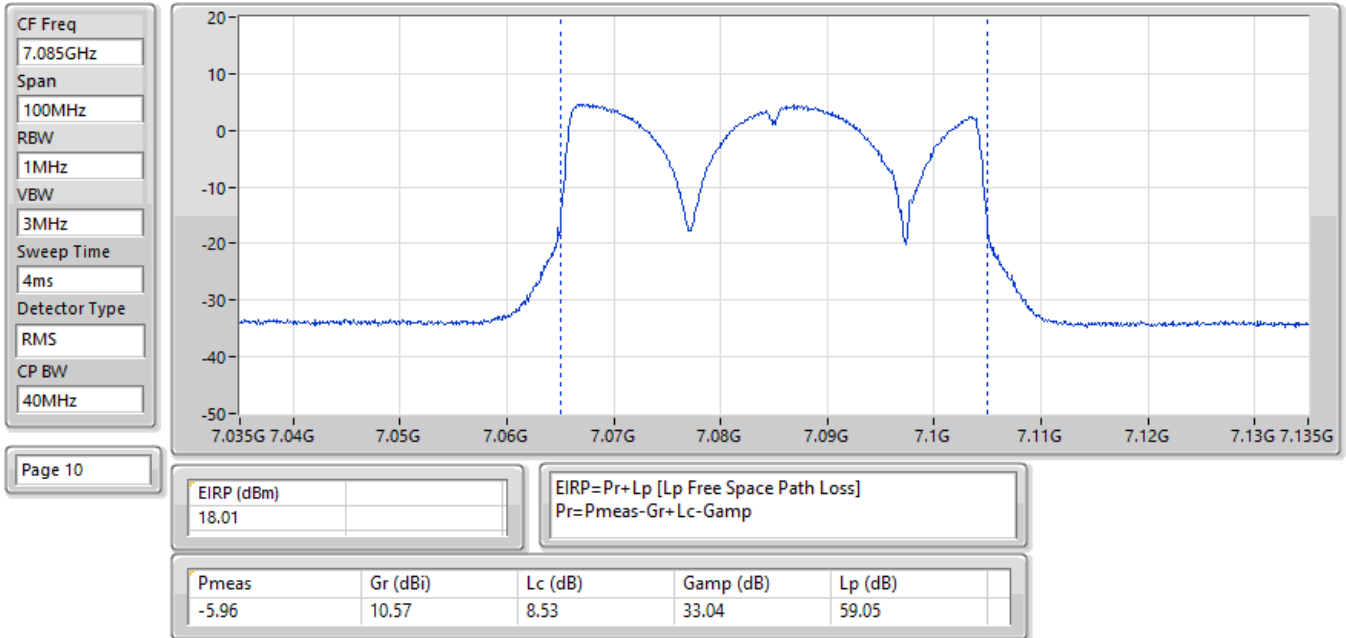
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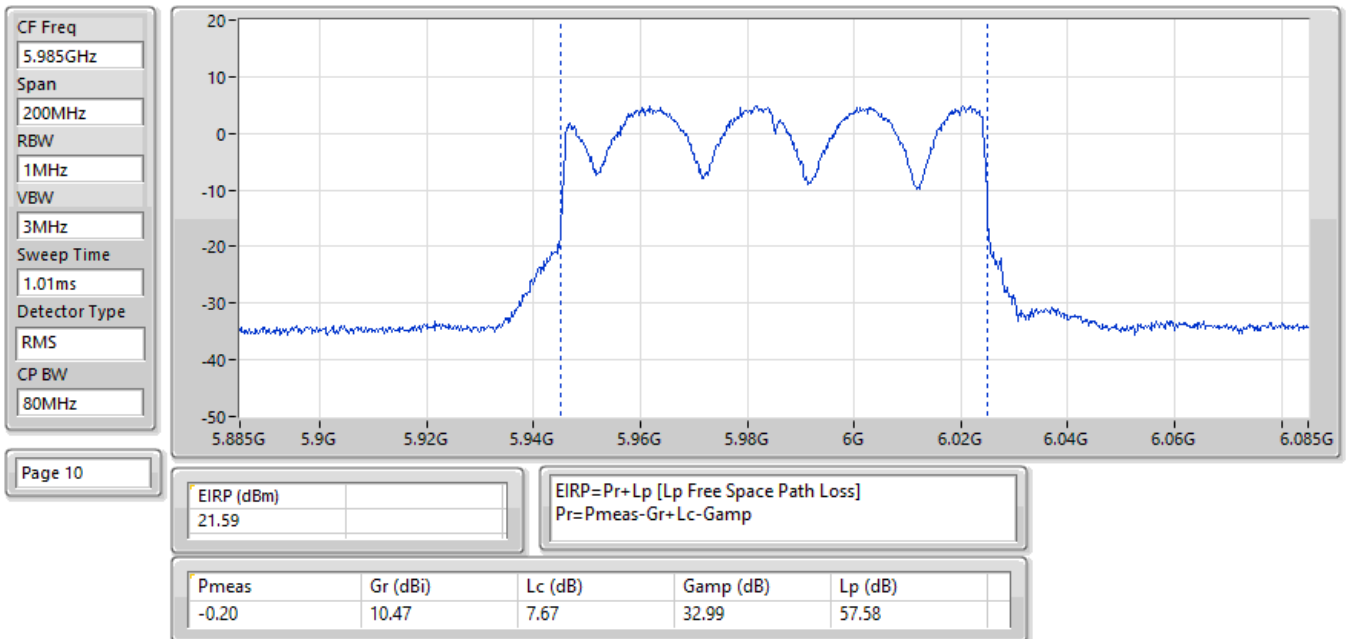
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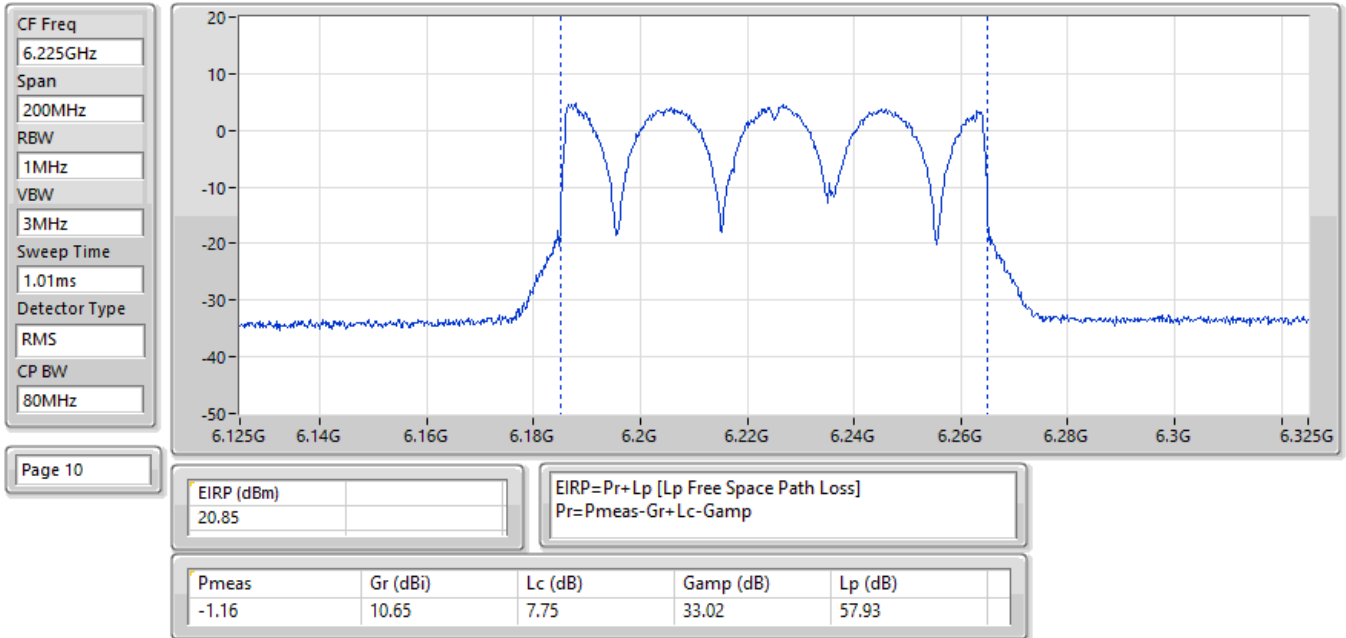
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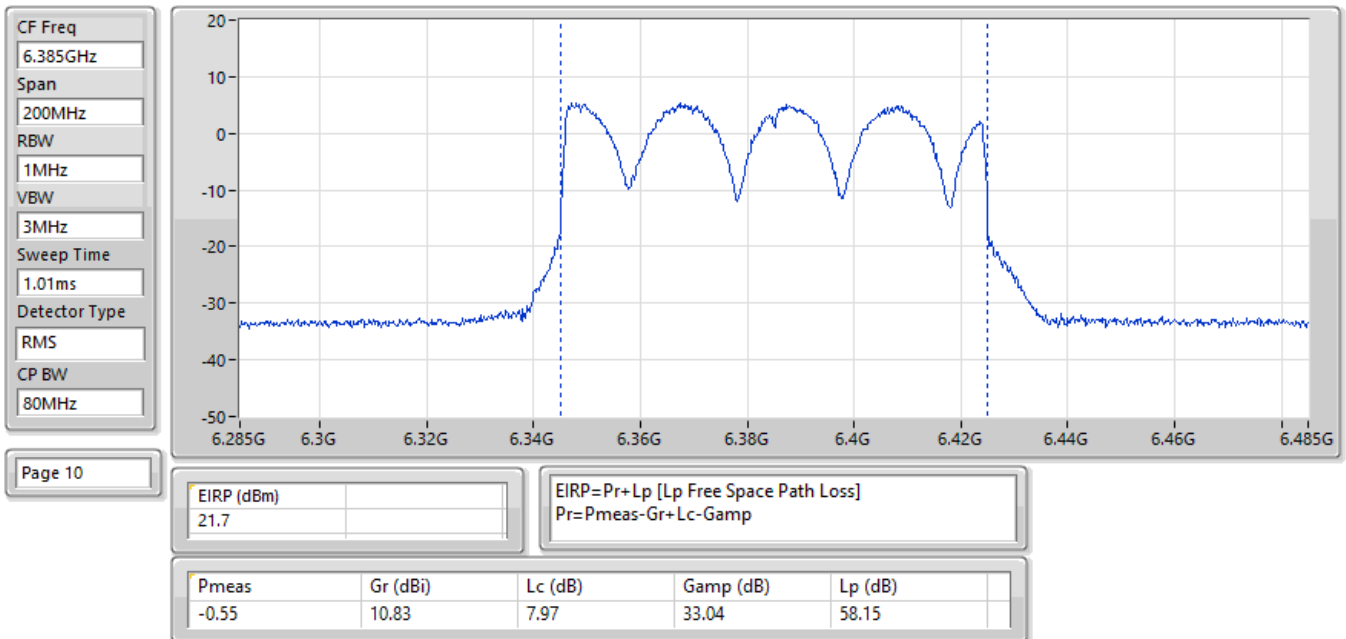
EIRP:Band:6.2G;be80;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:5985MHz;TX



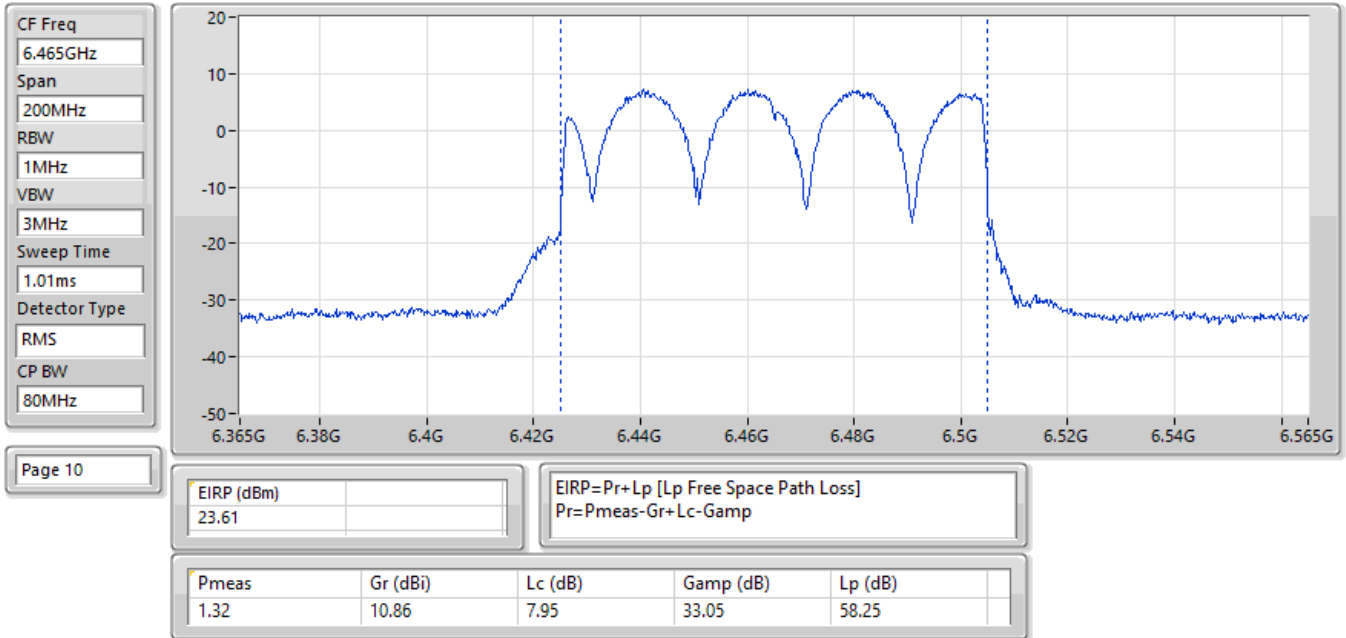
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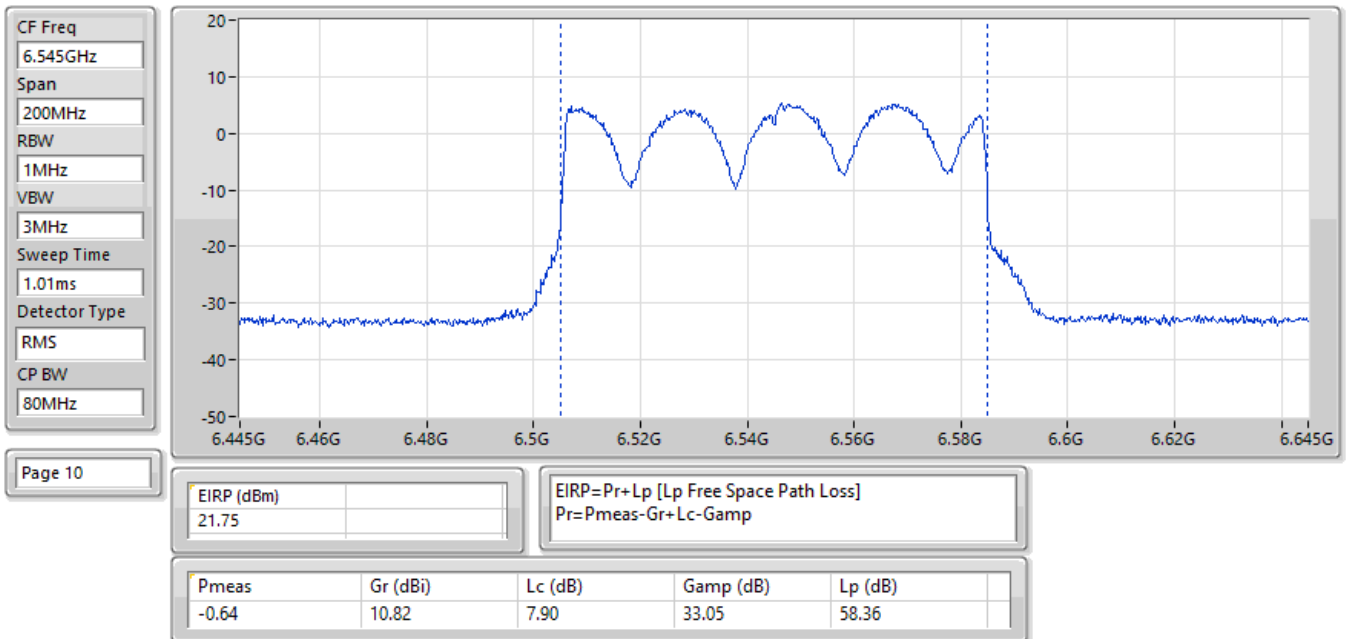
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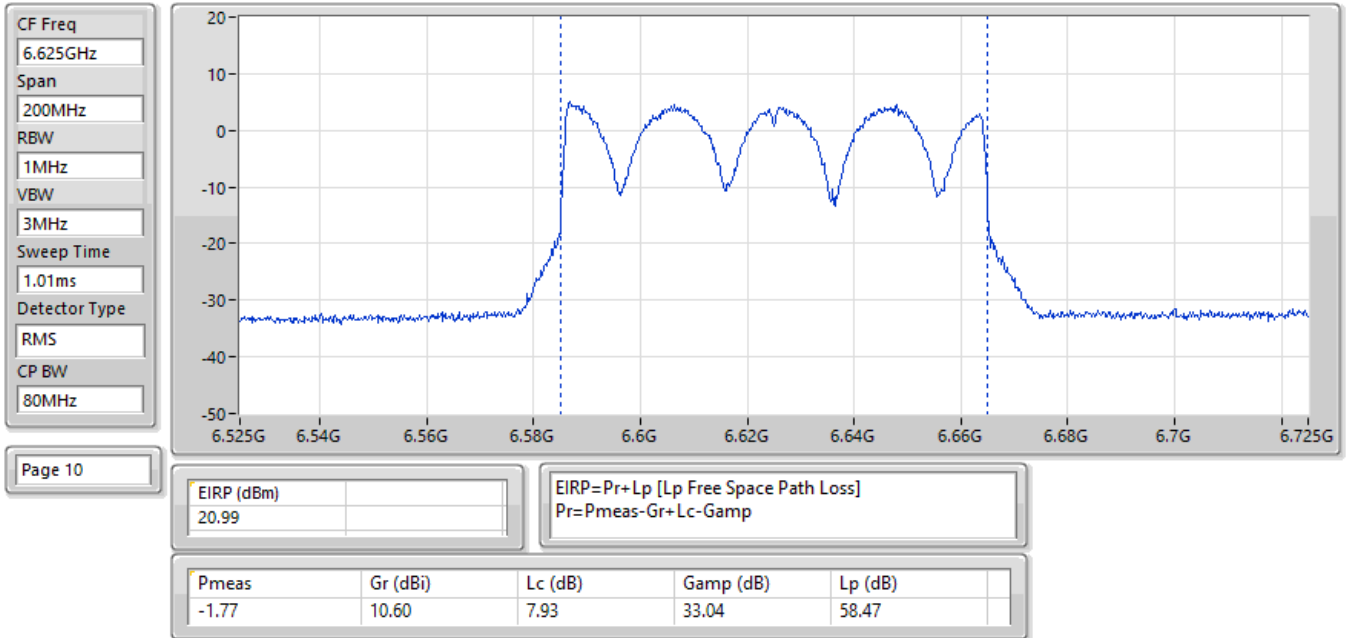
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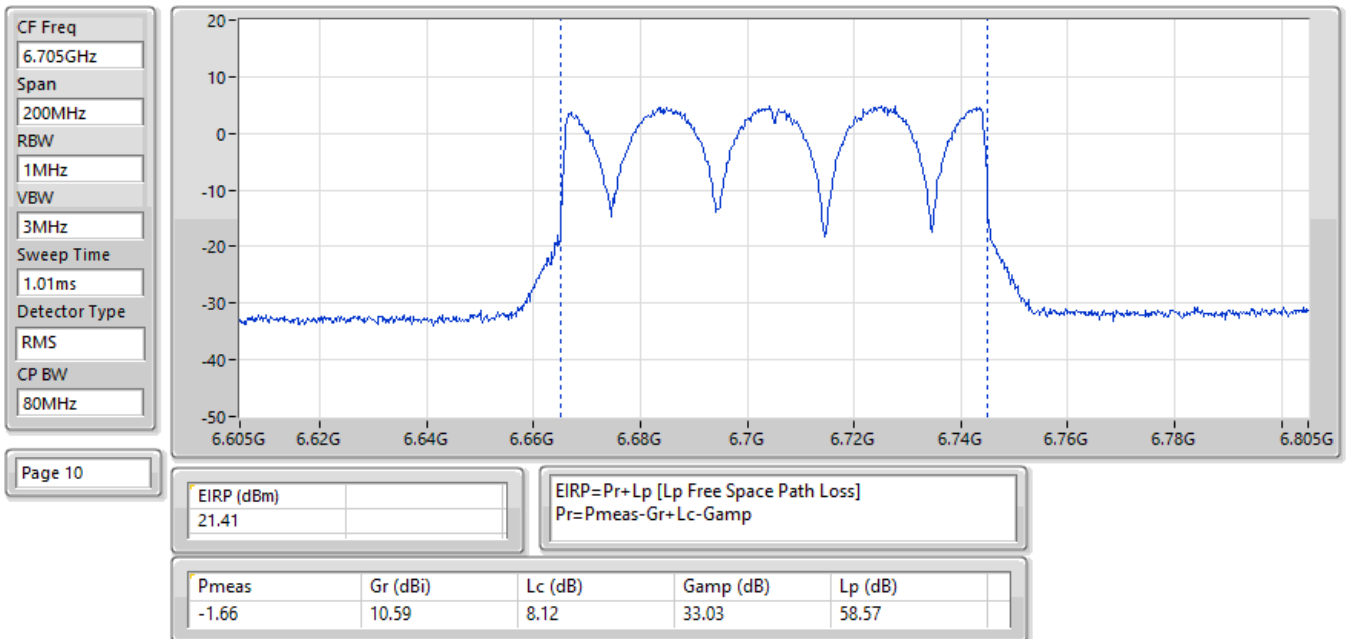
EIRP:Band:6.4G;be80;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:6545MHz;TX



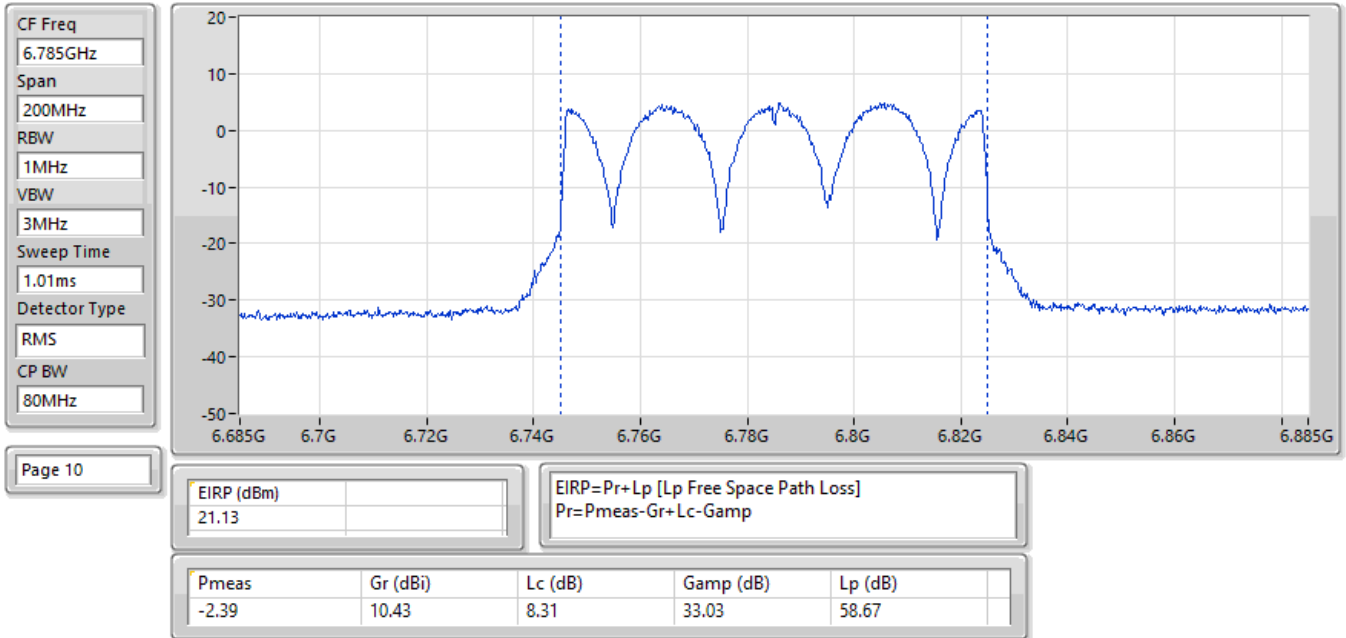
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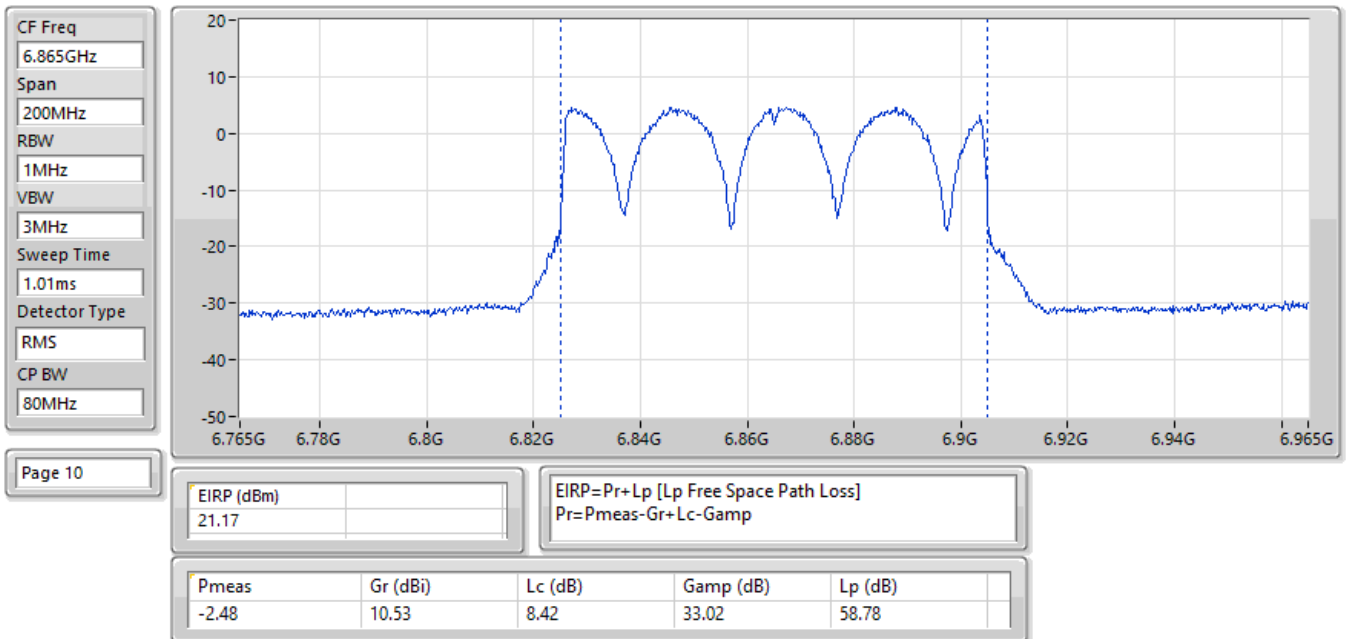
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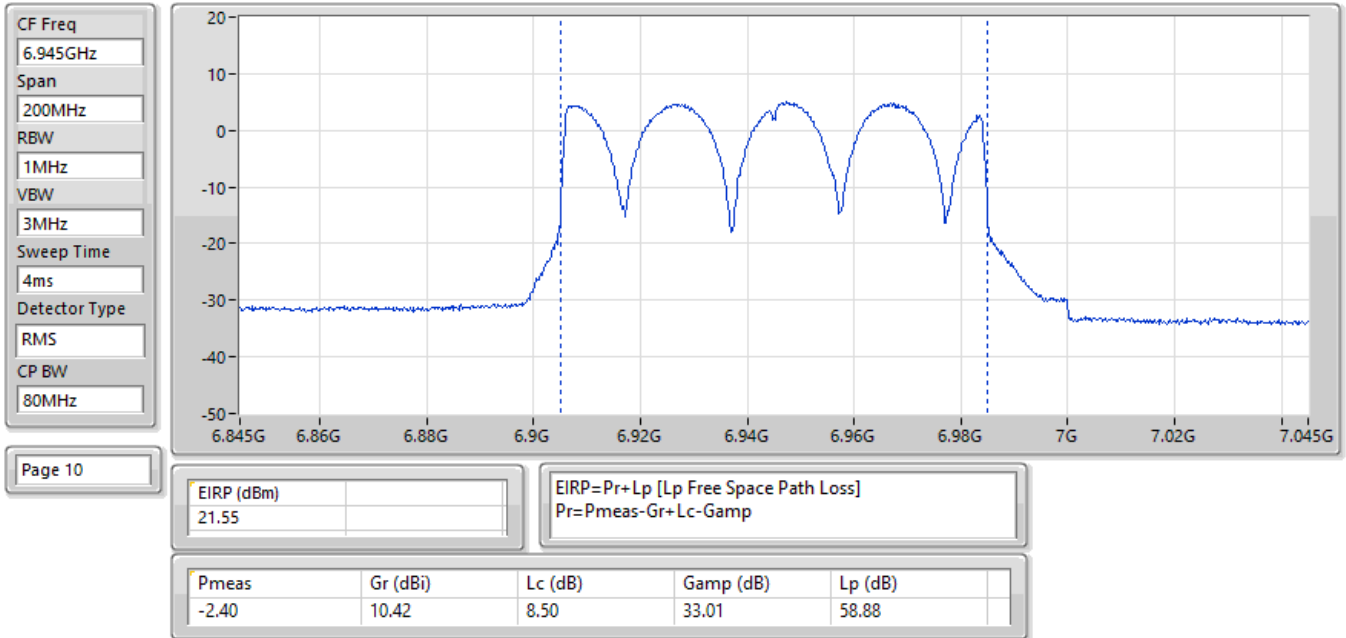
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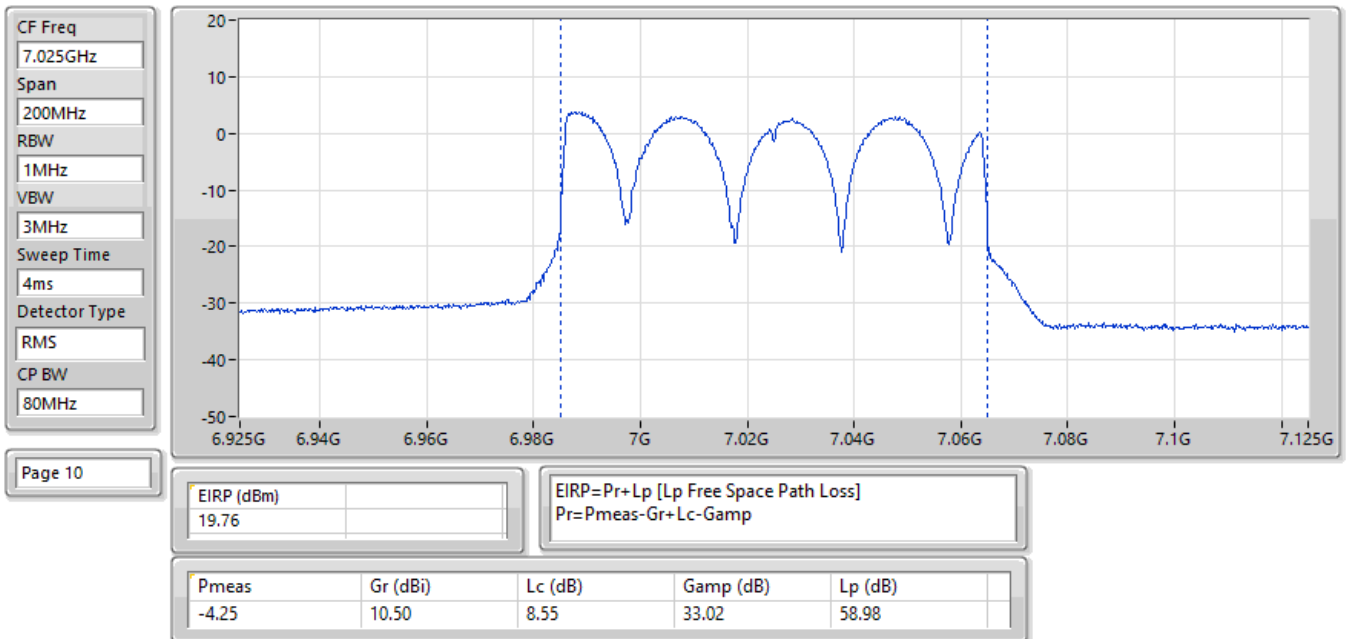
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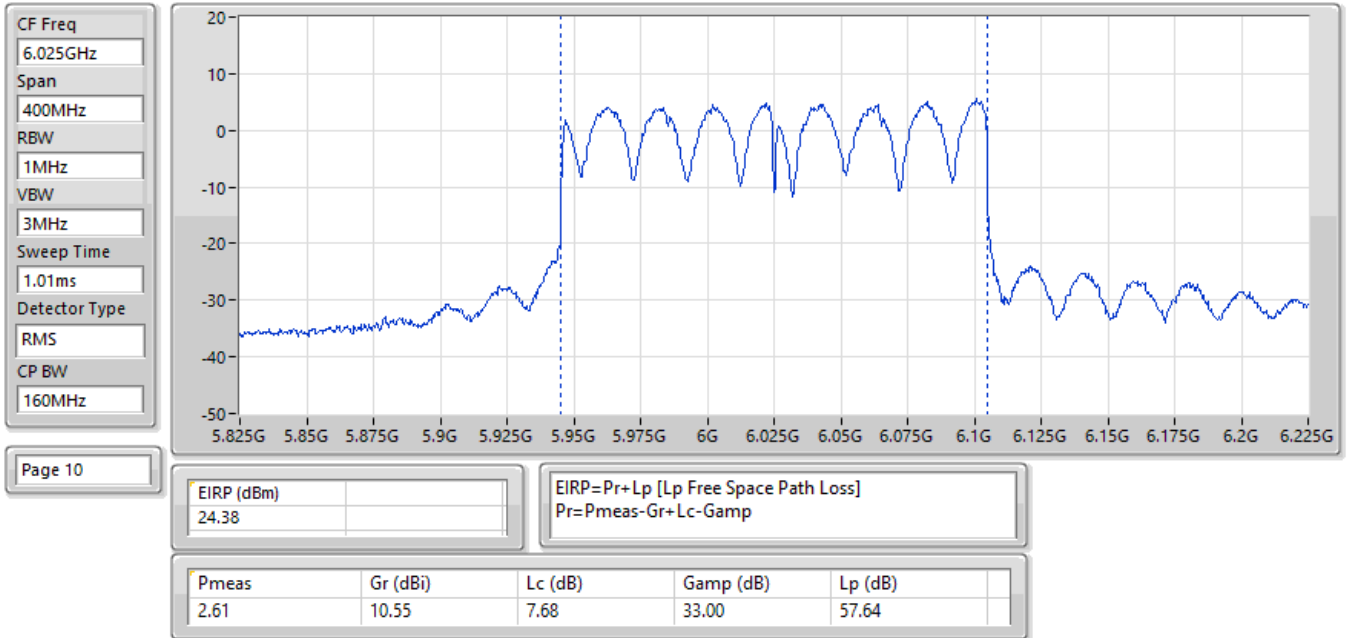
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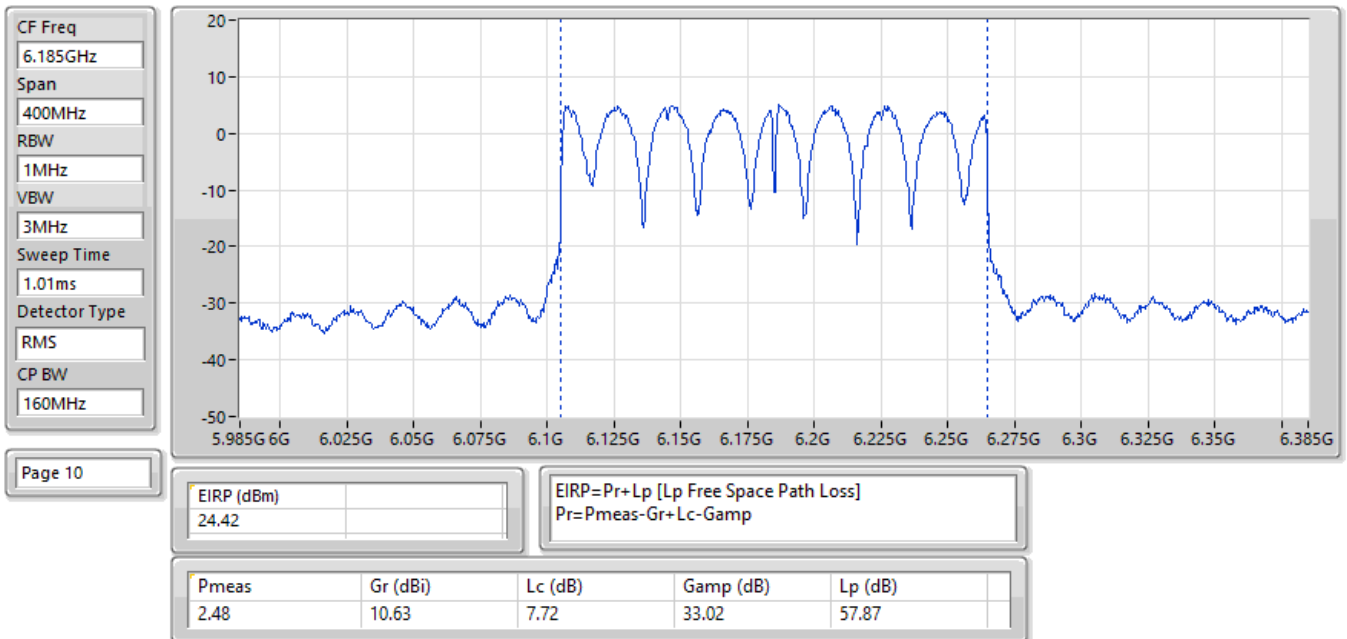
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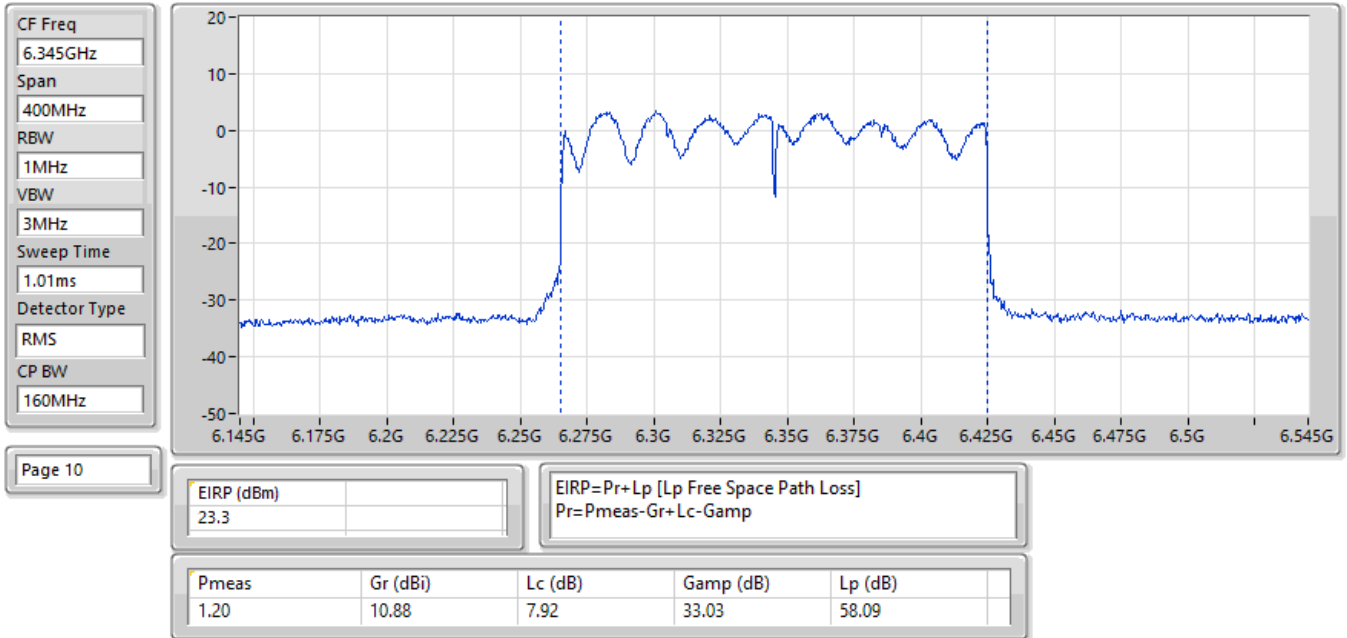
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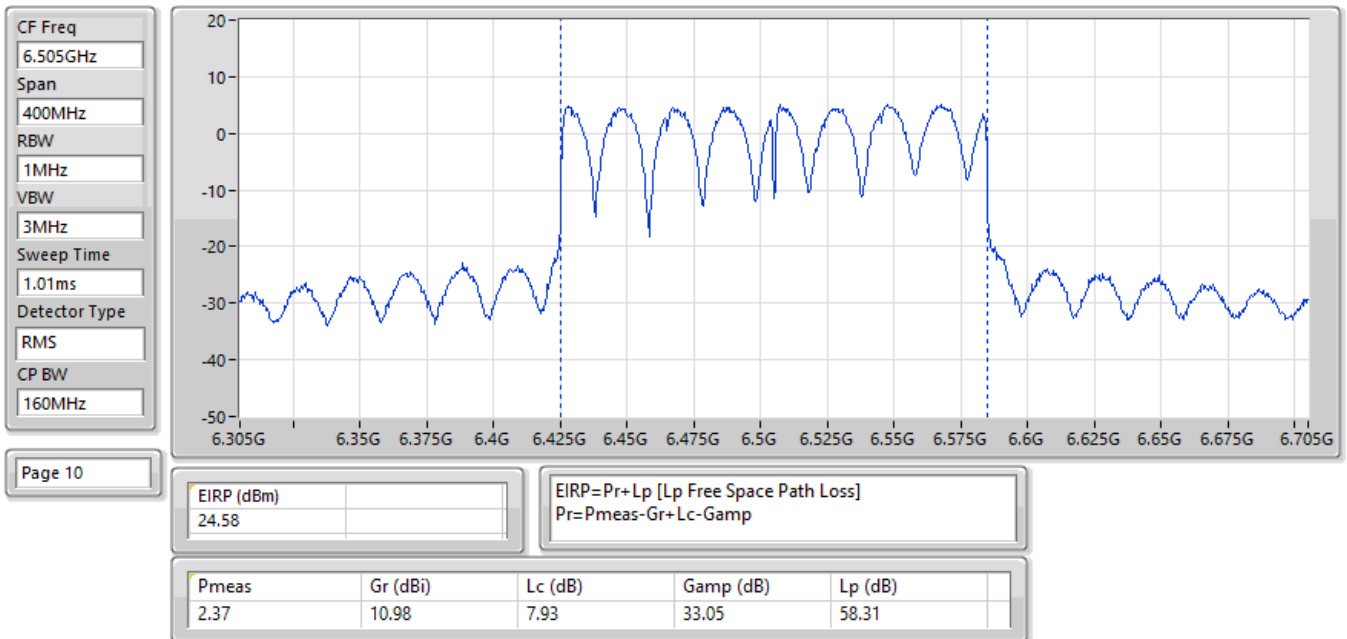
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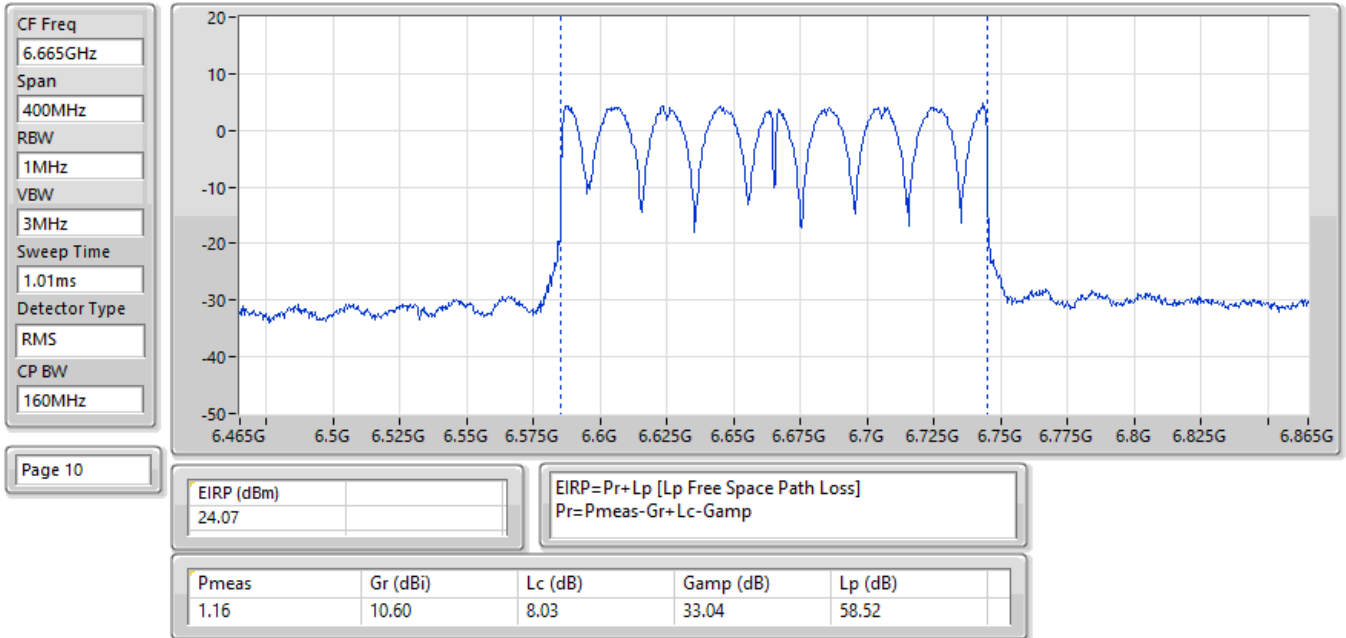
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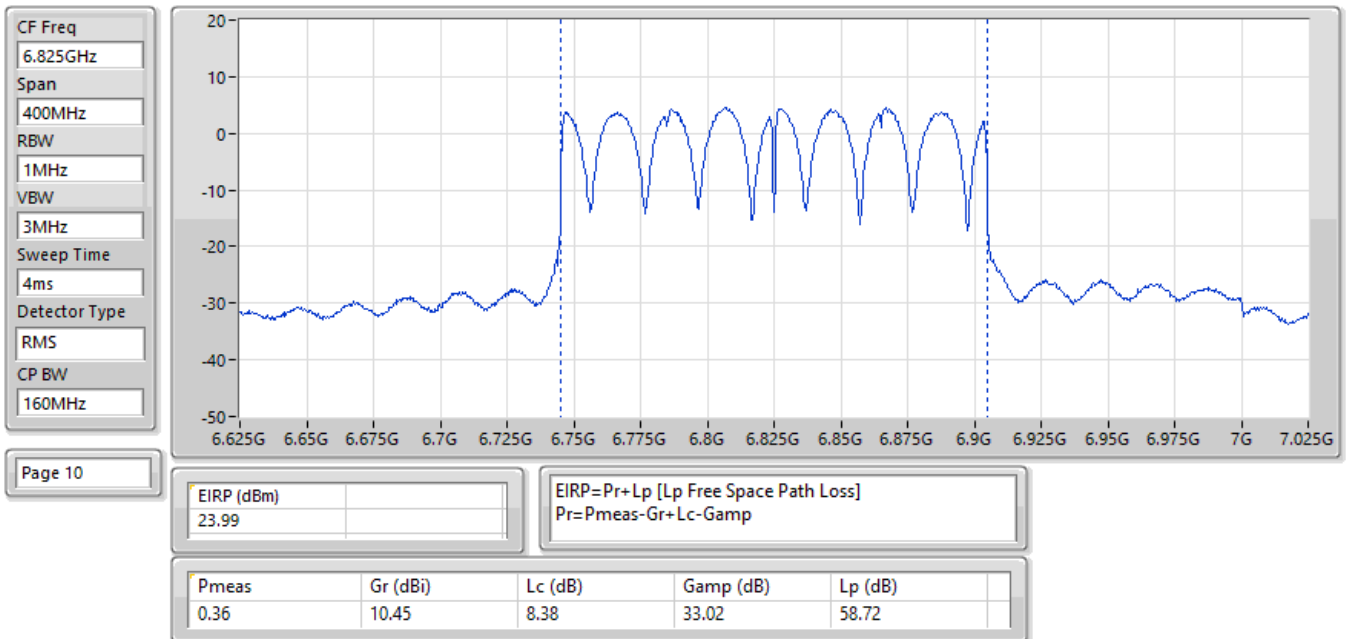
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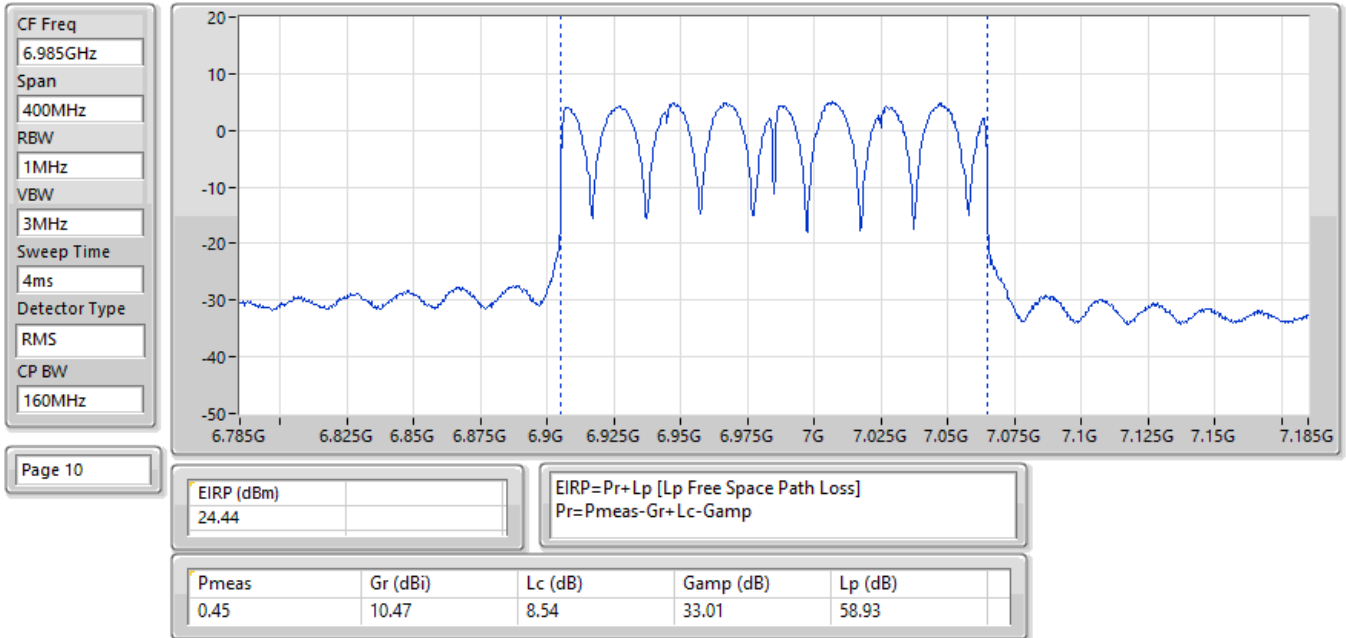
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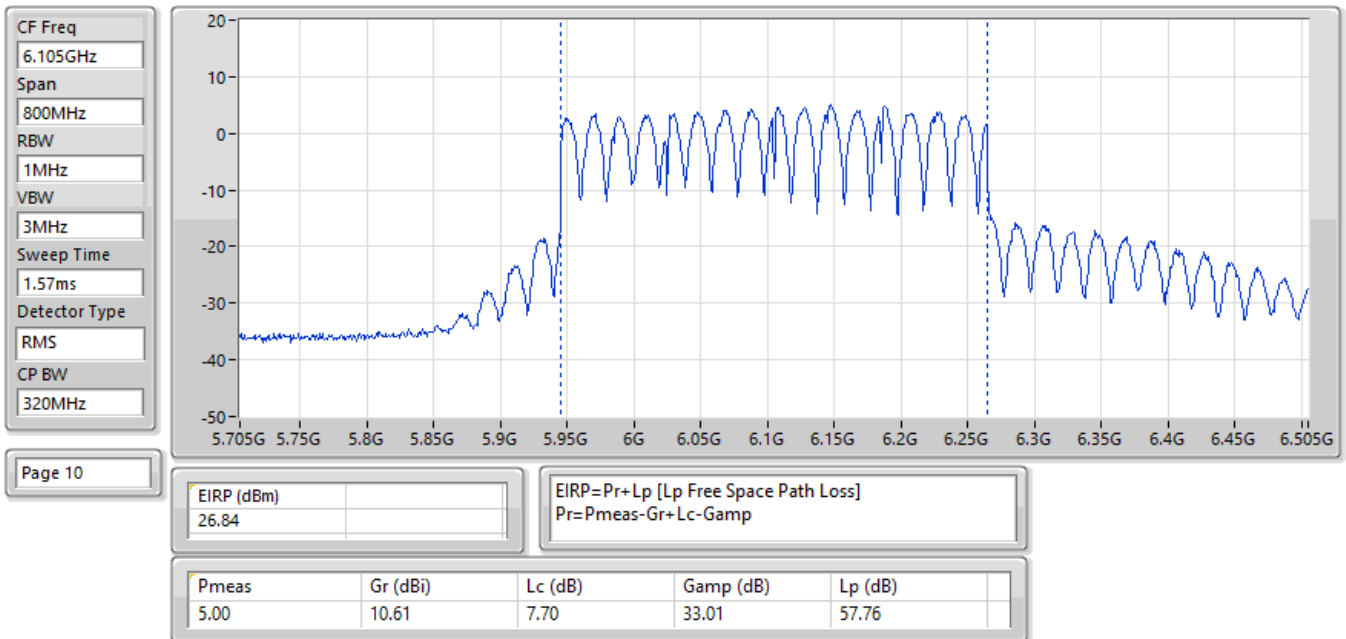
EIRP;Band:6.7G;be160;BWch:160MHz;Nss:1,(M0);Nant:2;Ch:6825MHz;TX



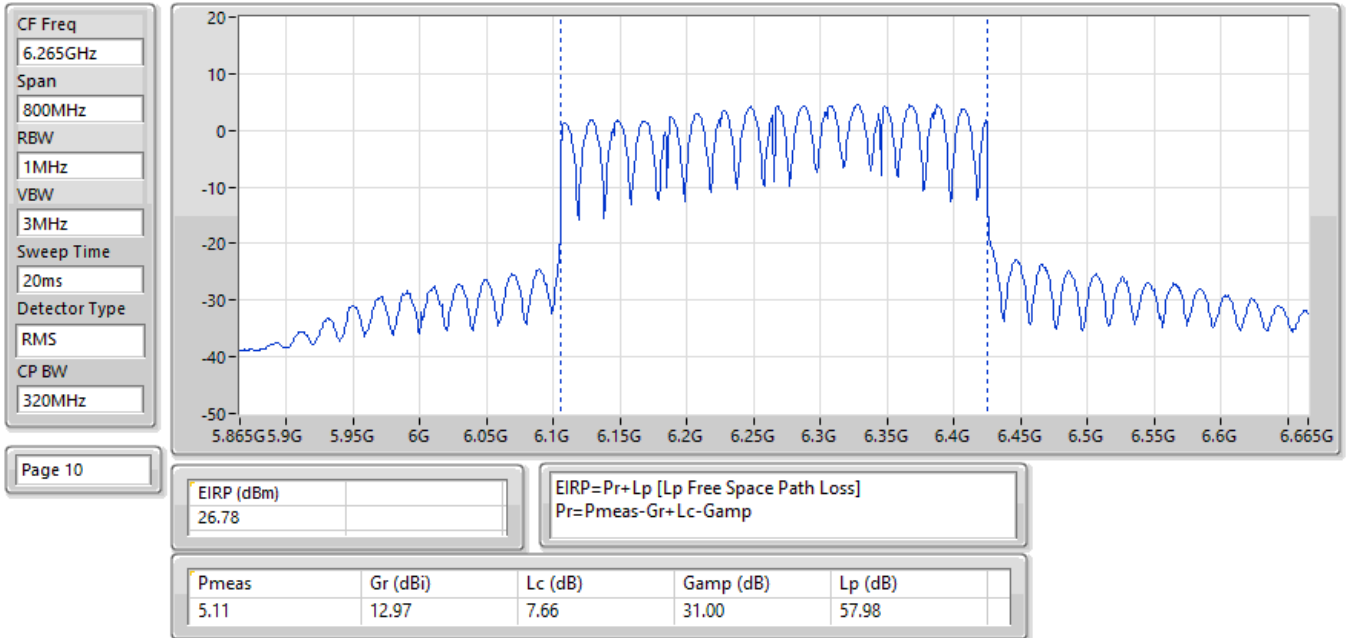
EIRP;Band:7.0G;be160;BWch:160MHz;Nss:1,(M0);Nant:2;Ch:6985MHz;TX



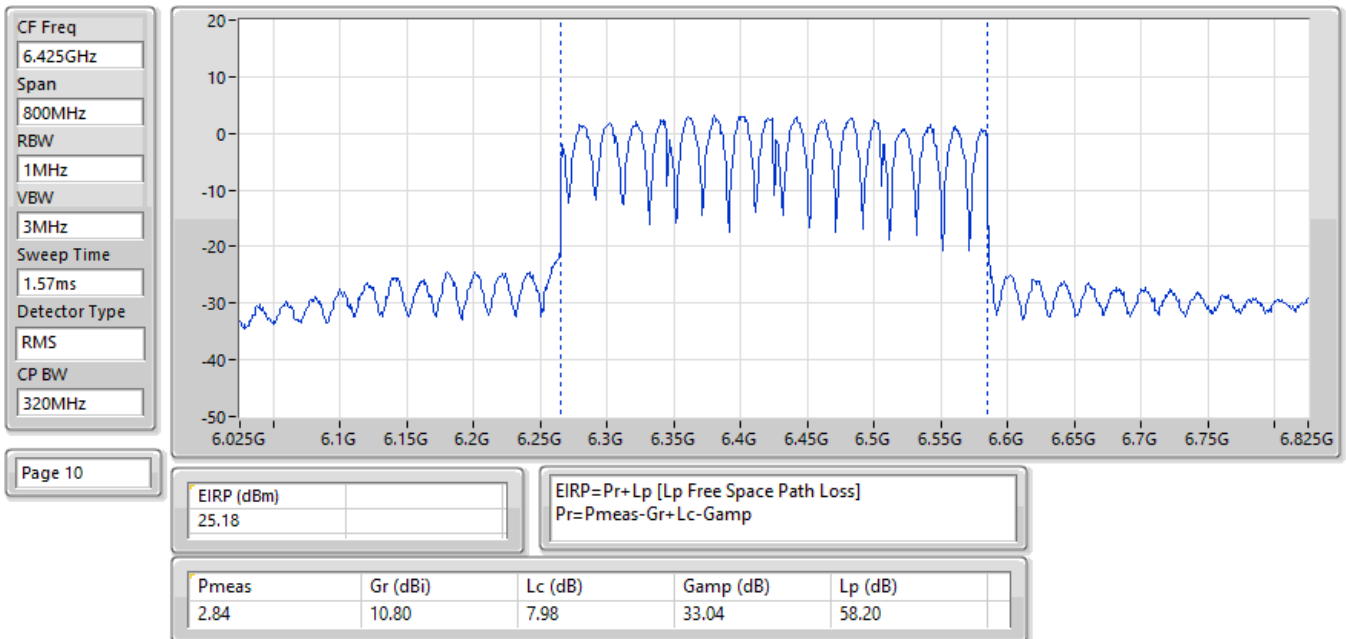
EIRP;Band:6.2G;be320;BWch:320MHz;Nss:1,(M0);Nant:2;Ch:6105MHz;TX



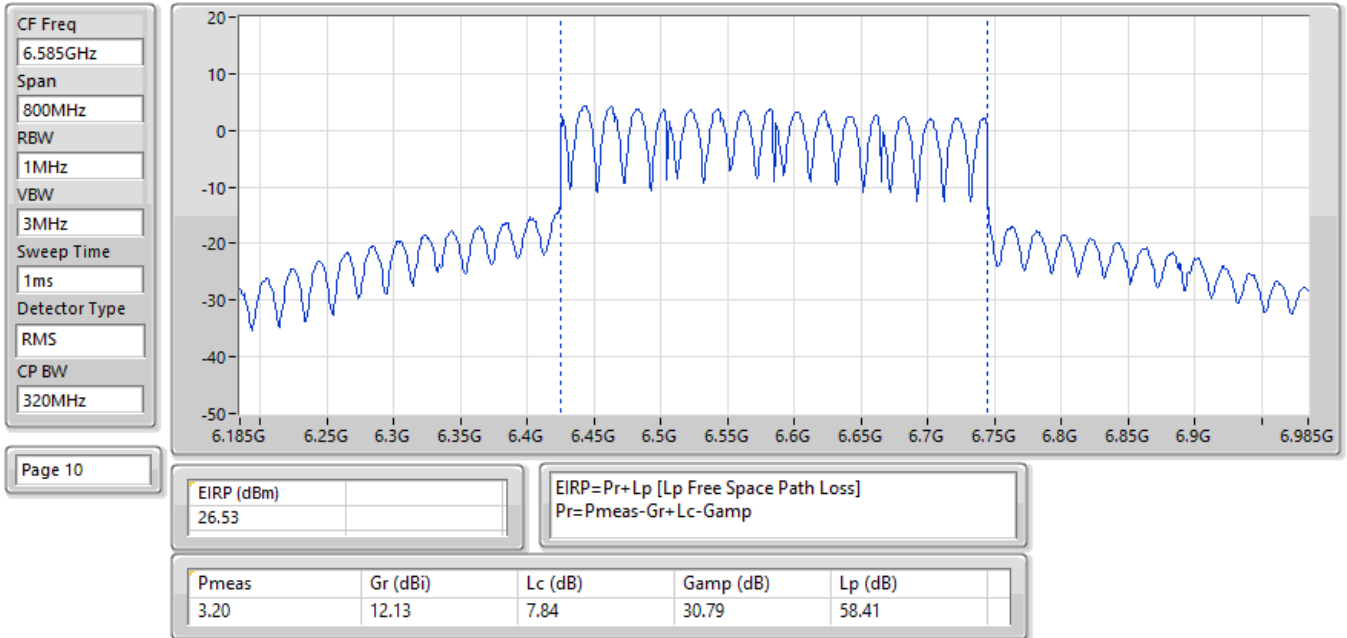
EIRP;Band:6.2G;be320;BWch:320MHz;Nss:1,(M0);Nant:2;Ch:6265MHz;TX



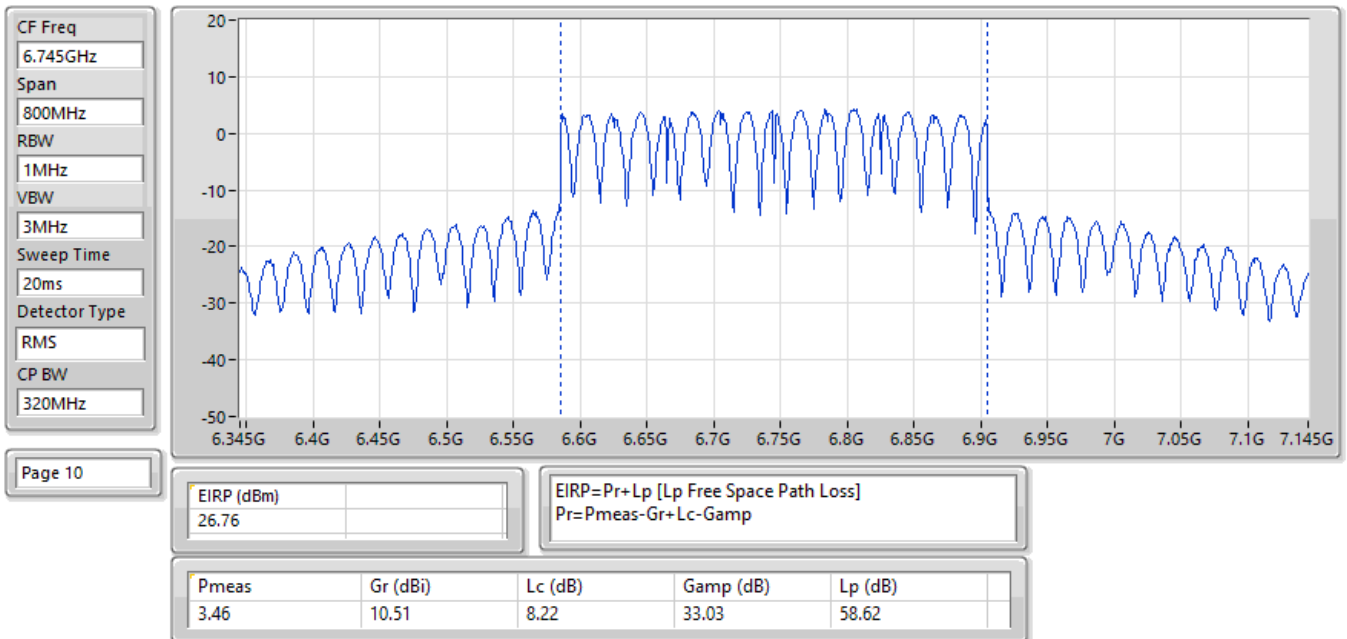
EIRP;Band:6.2G;be320;BWch:320MHz;Nss:1,(M0);Nant:2;Ch:6425MHz;TX

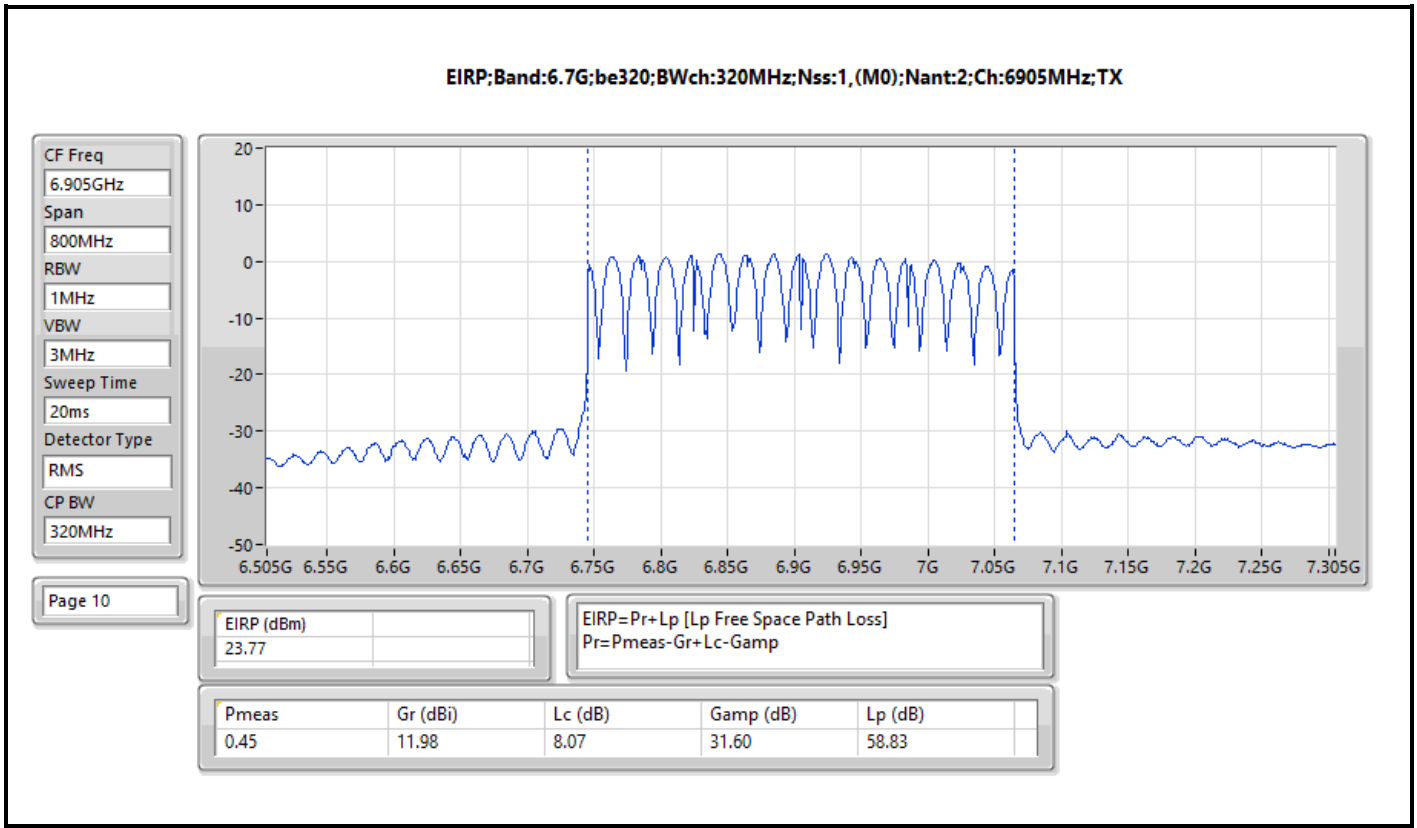


EIRP;Band:6.4G;be320;BWch:320MHz;Nss:1,(M0);Nant:2;Ch:6585MHz;TX



EIRP;Band:6.7G;be320;BWch:320MHz;Nss:1,(M0);Nant:2;Ch:6745MHz;TX





Summary

Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	17.66	0.05834
802.11be EHT40-BF_Nss1,(MCS0)_2TX	20.58	0.11429
802.11be EHT80-BF_Nss1,(MCS0)_2TX	23.18	0.20797
802.11be EHT160-BF_Nss1,(MCS0)_2TX	24.48	0.28054
802.11be EHT320-BF_Nss1,(MCS0)_2TX	25.22	0.33266
6.425-6.525GHz	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	16.89	0.04887
802.11be EHT40-BF_Nss1,(MCS0)_2TX	18.43	0.06966
802.11be EHT80-BF_Nss1,(MCS0)_2TX	20.84	0.12134
802.11be EHT160-BF_Nss1,(MCS0)_2TX	22.64	0.18365
802.11be EHT320-BF_Nss1,(MCS0)_2TX	23.77	0.23823
6.525-6.875GHz	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	17.63	0.05794
802.11be EHT40-BF_Nss1,(MCS0)_2TX	20.87	0.12218
802.11be EHT80-BF_Nss1,(MCS0)_2TX	23.04	0.20137
802.11be EHT160-BF_Nss1,(MCS0)_2TX	24.82	0.30339
802.11be EHT320-BF_Nss1,(MCS0)_2TX	23.90	0.24547
6.875-7.125GHz	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	17.13	0.05164
802.11be EHT40-BF_Nss1,(MCS0)_2TX	20.42	0.11015
802.11be EHT80-BF_Nss1,(MCS0)_2TX	22.88	0.19409
802.11be EHT160-BF_Nss1,(MCS0)_2TX	24.48	0.28054
802.11be EHT320-BF_Nss1,(MCS0)_2TX	21.87	0.15382



Radiated EIRP_For Beamforming mode

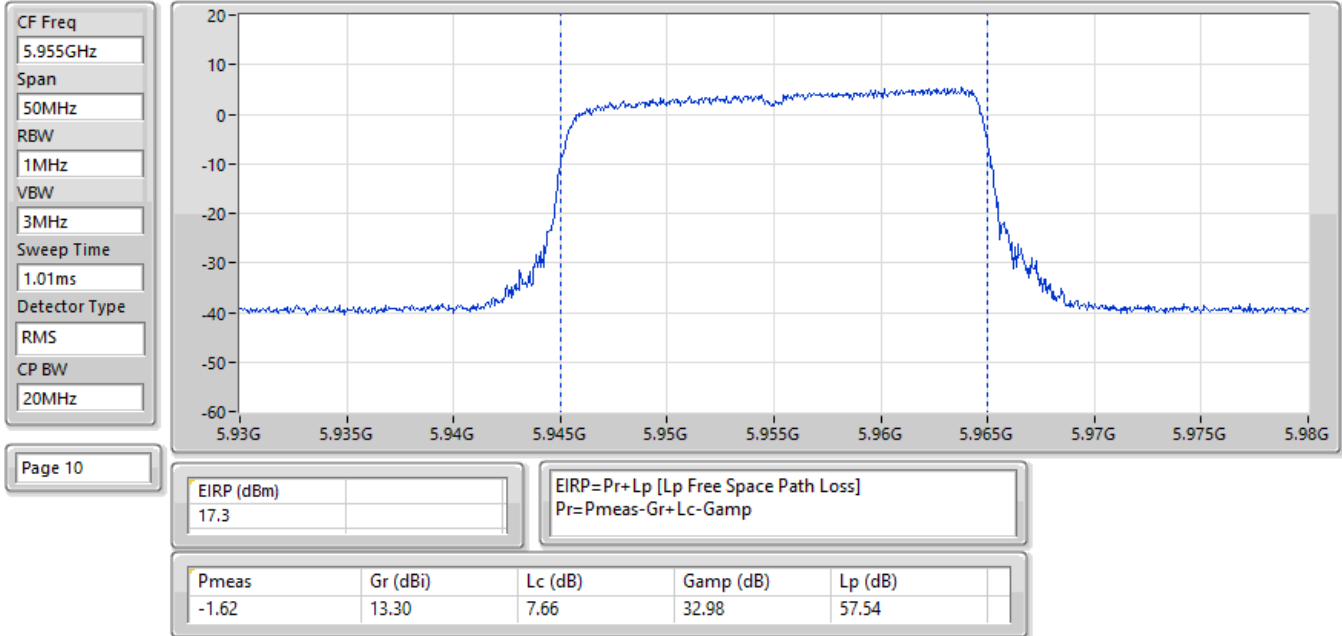
Appendix C.2

Result

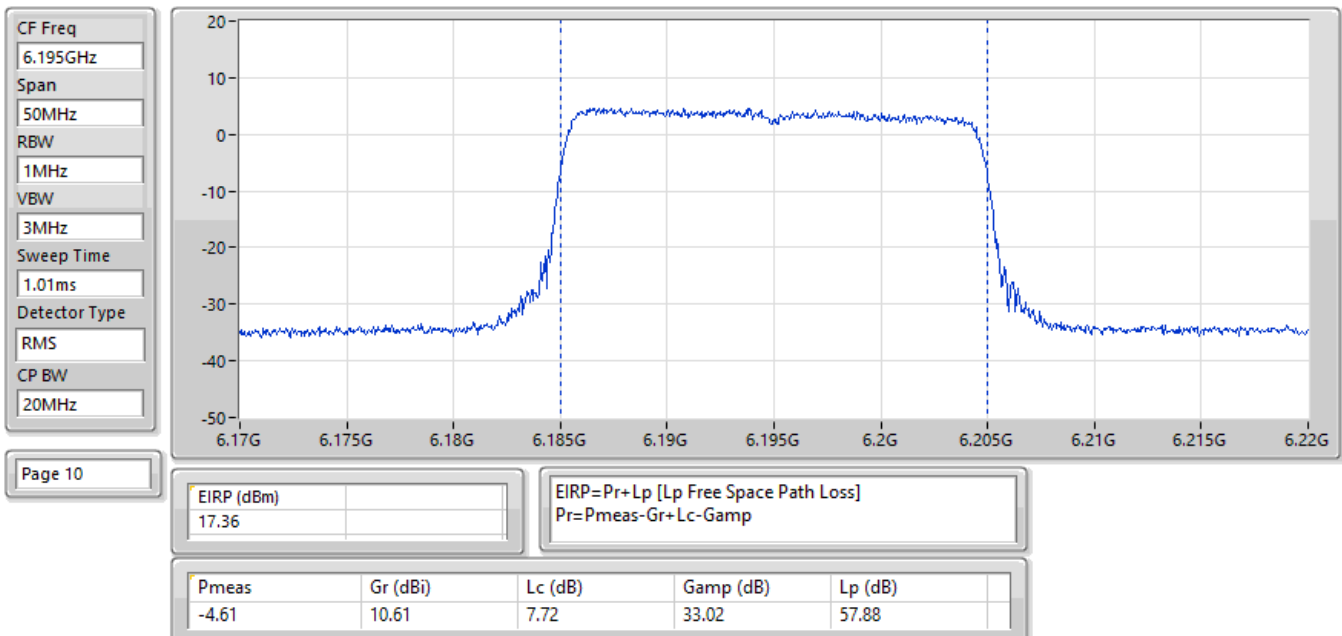
Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-
5955MHz	Pass	17.30	30.00
6195MHz	Pass	17.36	30.00
6415MHz	Pass	17.66	30.00
6435MHz	Pass	16.89	30.00
6475MHz	Pass	14.97	30.00
6515MHz	Pass	15.21	30.00
6535MHz	Pass	16.90	30.00
6695MHz	Pass	17.63	30.00
6875MHz Straddle 6.525-6.875GHz	Pass	16.18	30.00
6895MHz	Pass	16.89	30.00
6995MHz	Pass	17.13	30.00
7095MHz	Pass	15.00	30.00
7115MHz	Pass	16.04	30.00
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-
5965MHz	Pass	18.35	30.00
6205MHz	Pass	20.09	30.00
6405MHz	Pass	20.58	30.00
6445MHz	Pass	17.34	30.00
6485MHz	Pass	18.43	30.00
6525MHz Straddle 6.425-6.525GHz	Pass	18.36	30.00
6565MHz	Pass	20.87	30.00
6685MHz	Pass	19.90	30.00
6885MHz Straddle 6.525-6.875GHz	Pass	20.24	30.00
6925MHz	Pass	20.42	30.00
7005MHz	Pass	17.92	30.00
7085MHz	Pass	19.10	30.00
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-
5985MHz	Pass	23.18	30.00
6225MHz	Pass	21.95	30.00
6385MHz	Pass	19.78	30.00
6465MHz	Pass	20.70	30.00
6545MHz Straddle 6.425-6.525GHz	Pass	20.84	30.00
6625MHz	Pass	23.04	30.00
6705MHz	Pass	21.12	30.00
6785MHz	Pass	19.59	30.00
6865MHz Straddle 6.525-6.875GHz	Pass	20.35	30.00
6945MHz	Pass	21.42	30.00
7025MHz	Pass	22.88	30.00
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-	-	-
6025MHz	Pass	23.09	30.00
6185MHz	Pass	24.48	30.00
6345MHz	Pass	23.40	30.00
6505MHz Straddle 6.425-6.525GHz	Pass	22.64	30.00
6665MHz	Pass	24.82	30.00
6825MHz Straddle 6.525-6.875GHz	Pass	24.63	30.00
6985MHz	Pass	24.48	30.00
802.11be EHT320-BF_Nss1,(MCS0)_2TX	-	-	-
6105MHz	Pass	25.22	30.00
6265MHz	Pass	22.55	30.00
6425MHz Straddle 5.925-6.425GHz	Pass	22.02	30.00
6585MHz	Pass	23.77	30.00
6745MHz Straddle 6.525-6.875GHz	Pass	23.90	30.00
6905MHz Straddle 6.875-7.125GHz	Pass	21.87	30.00

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

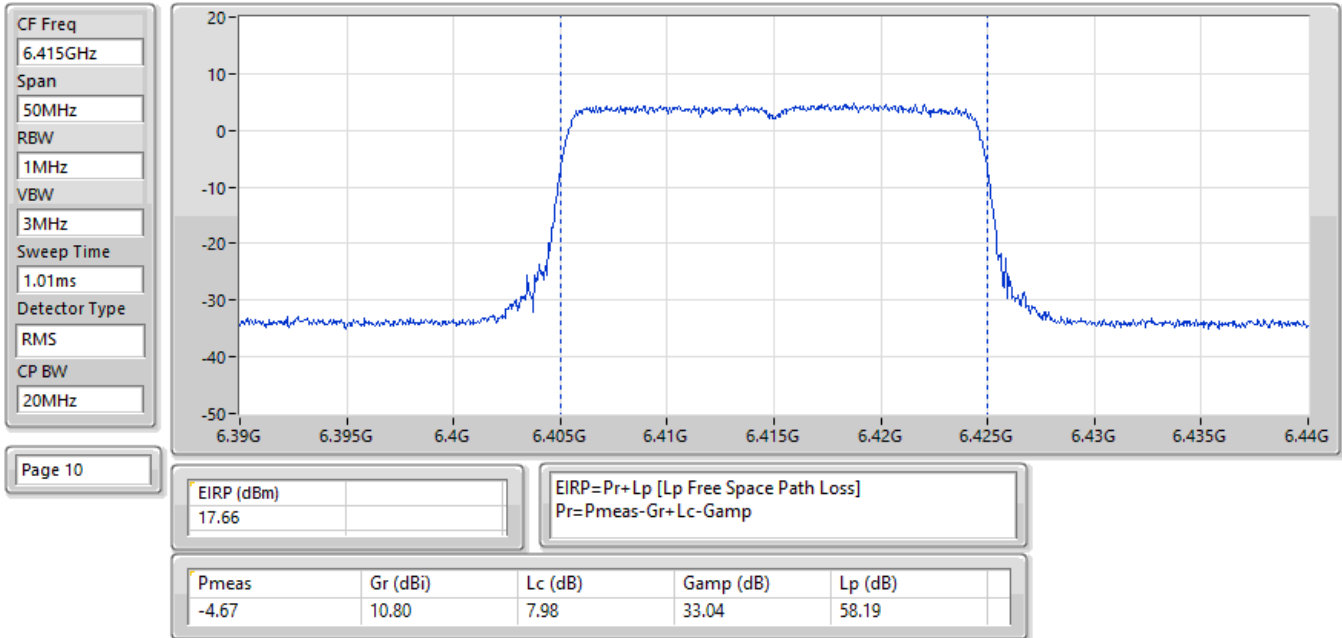
EIRP;Band:6.2G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:5955MHz;TX



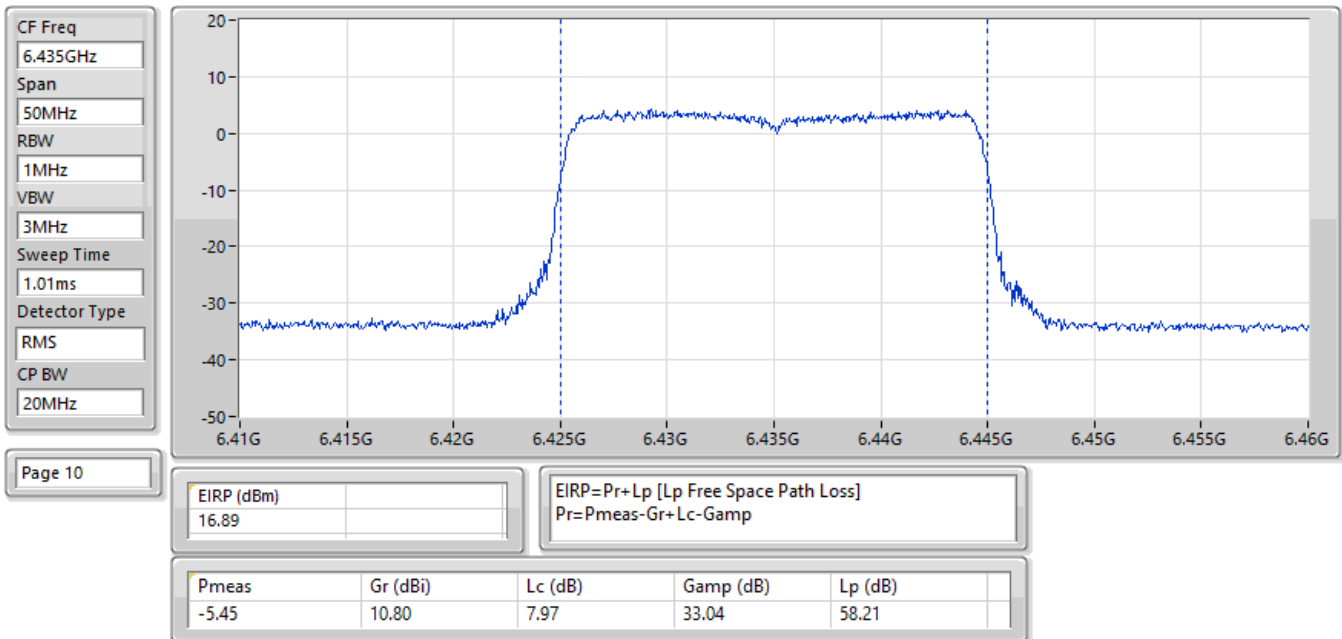
EIRP;Band:6.2G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6195MHz;TX



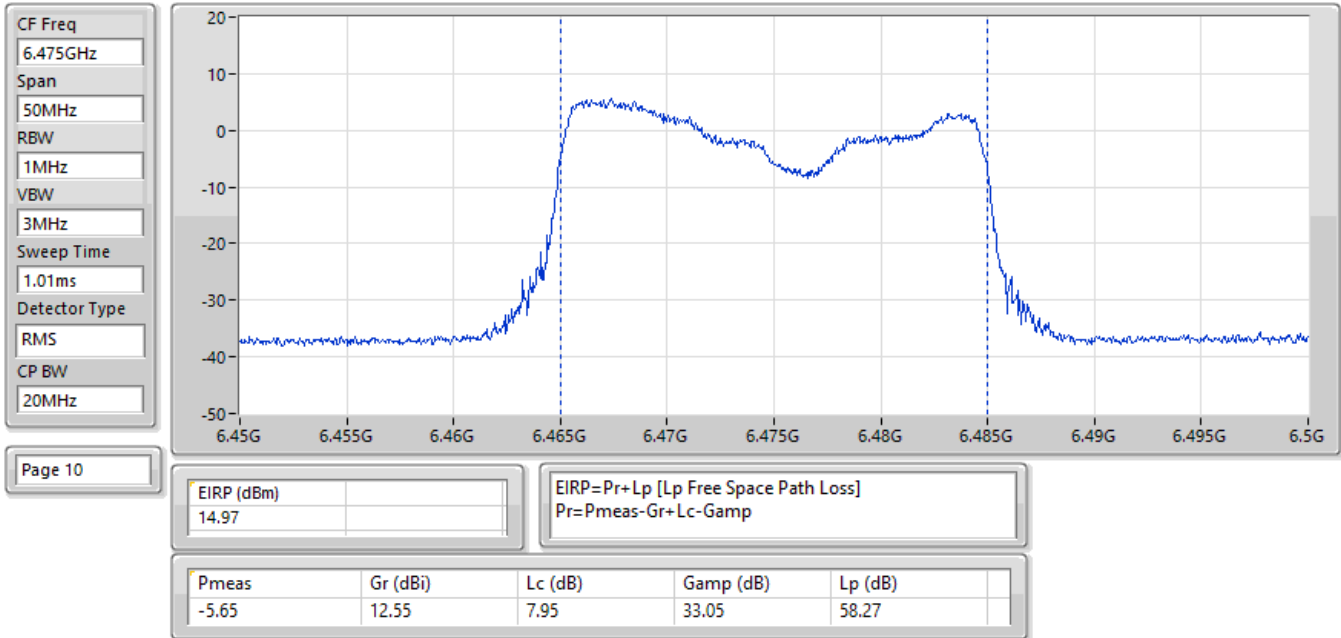
EIRP:Band:6.2G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6415MHz;TX



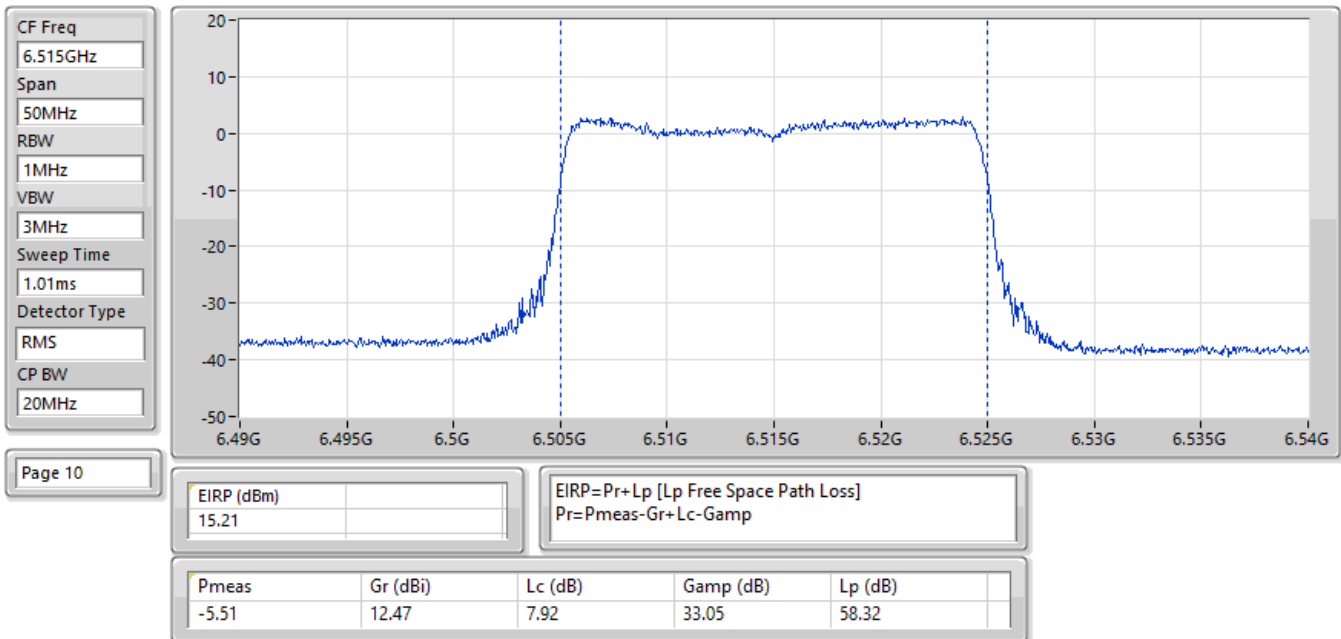
EIRP:Band:6.4G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6435MHz;TX



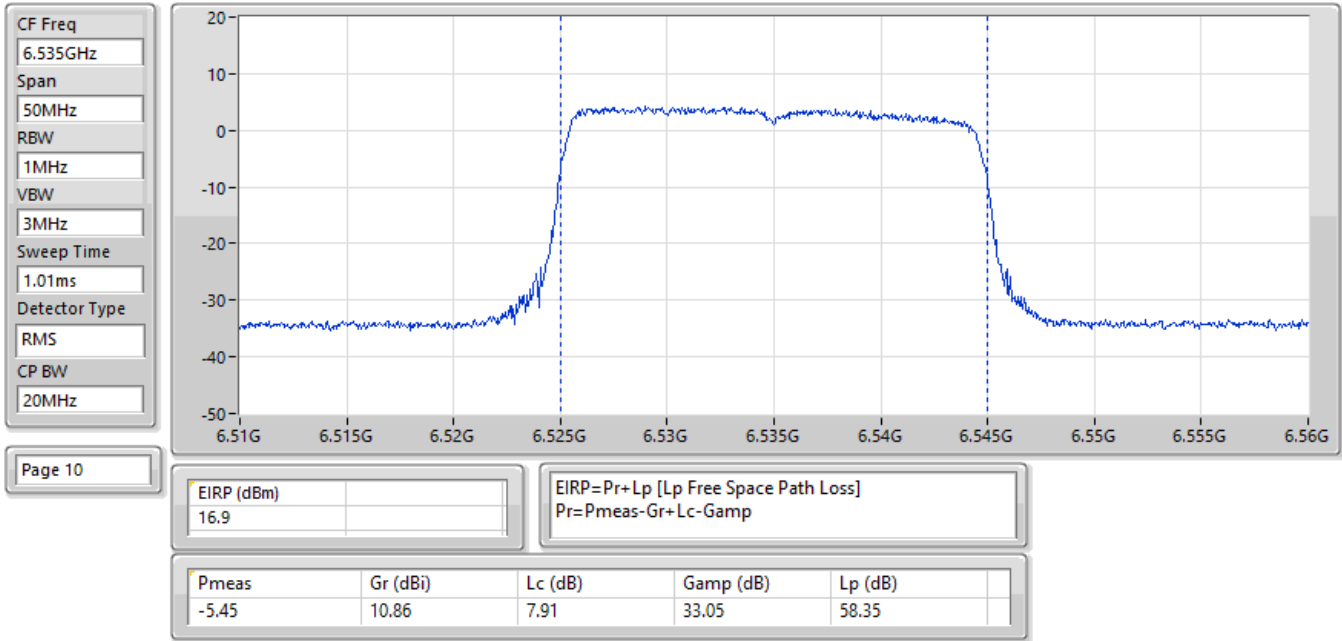
EIRP:Band:6.4G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6475MHz;TX



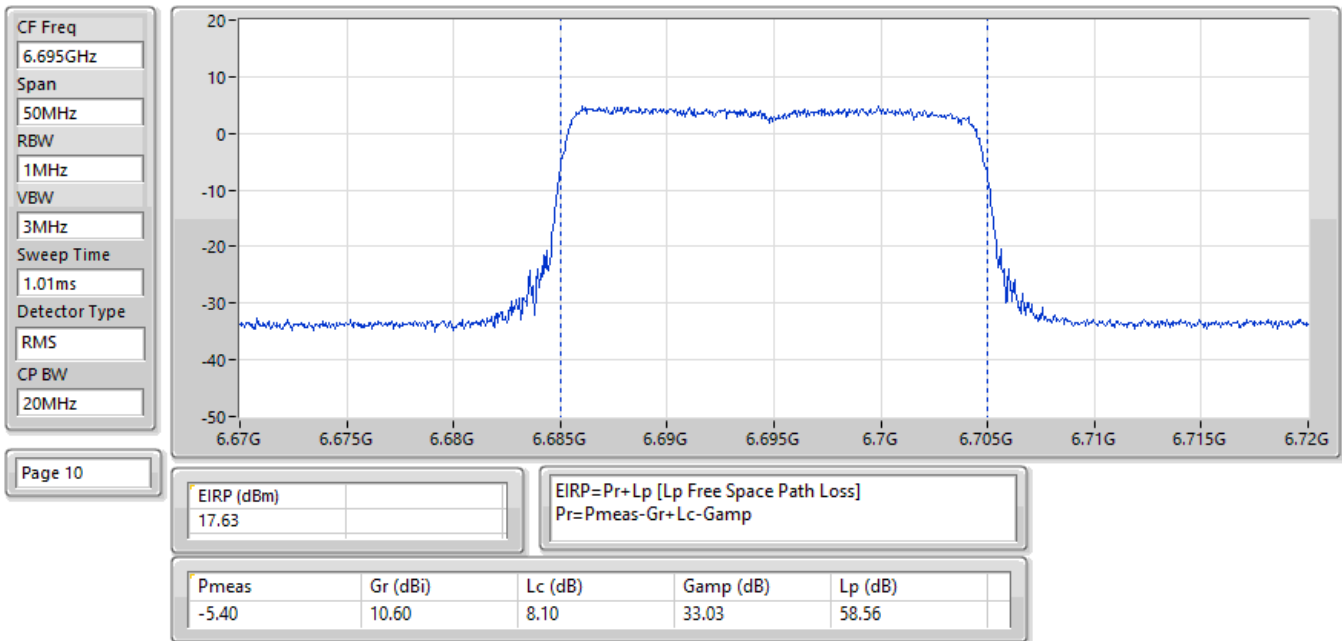
EIRP:Band:6.4G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6515MHz;TX



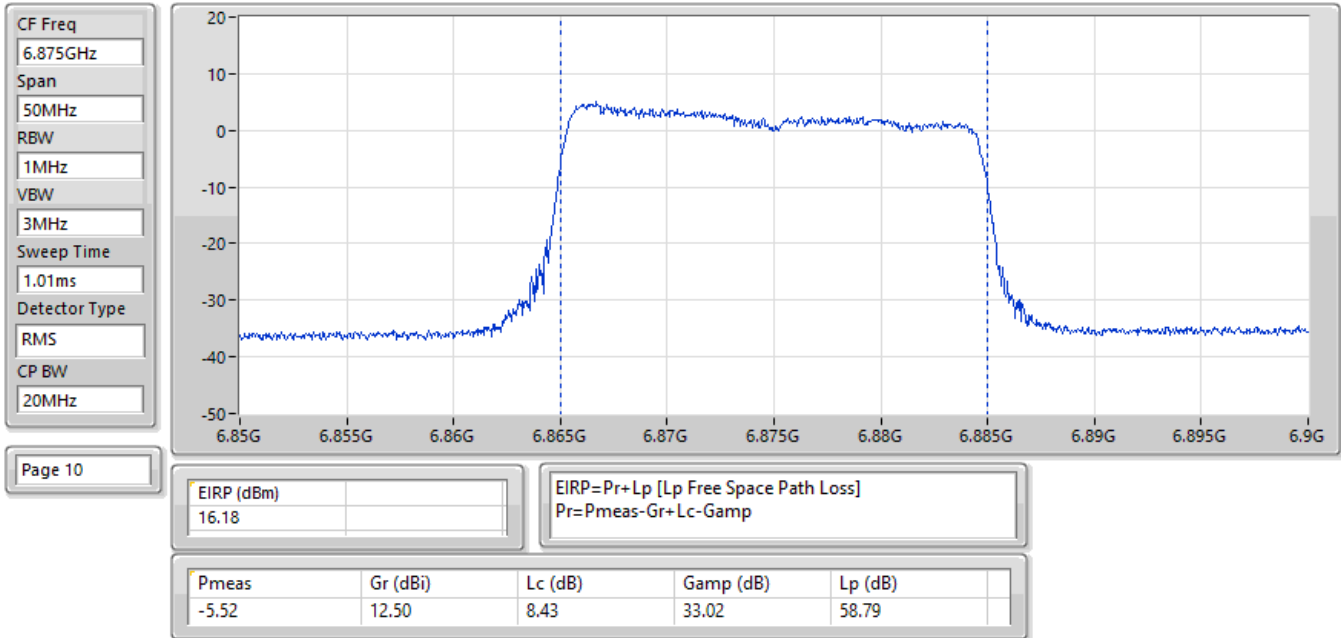
EIRP:Band:6.7G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6535MHz;TX



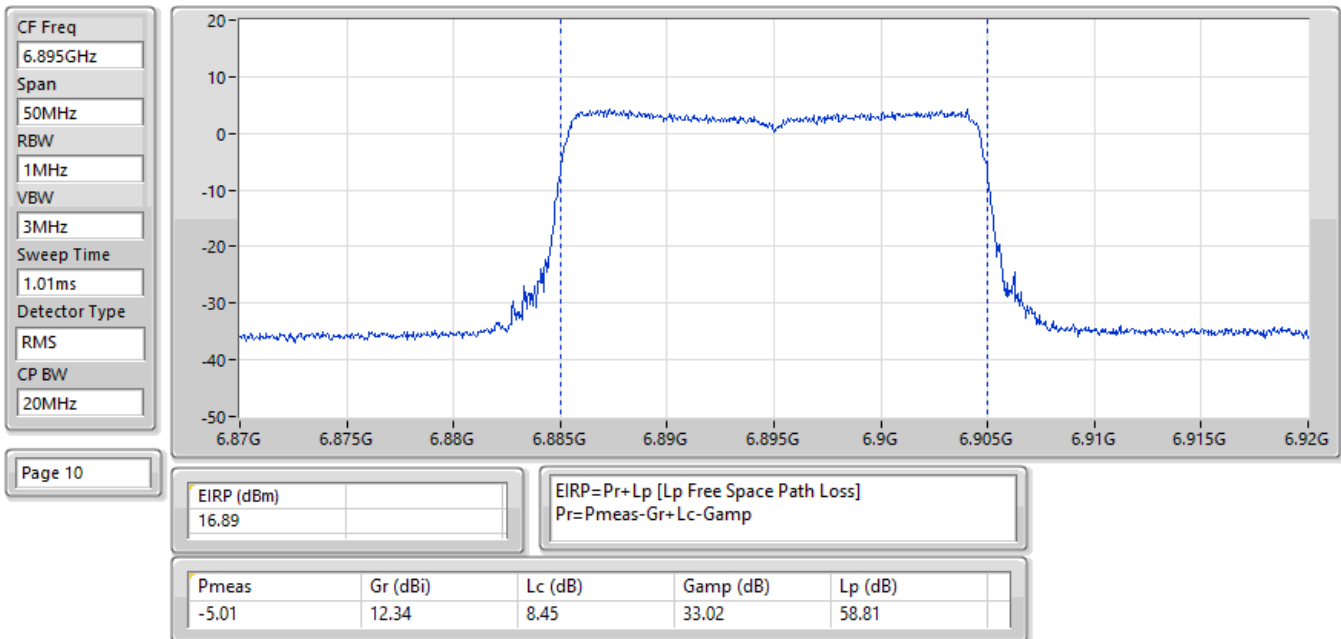
EIRP:Band:6.7G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6695MHz;TX



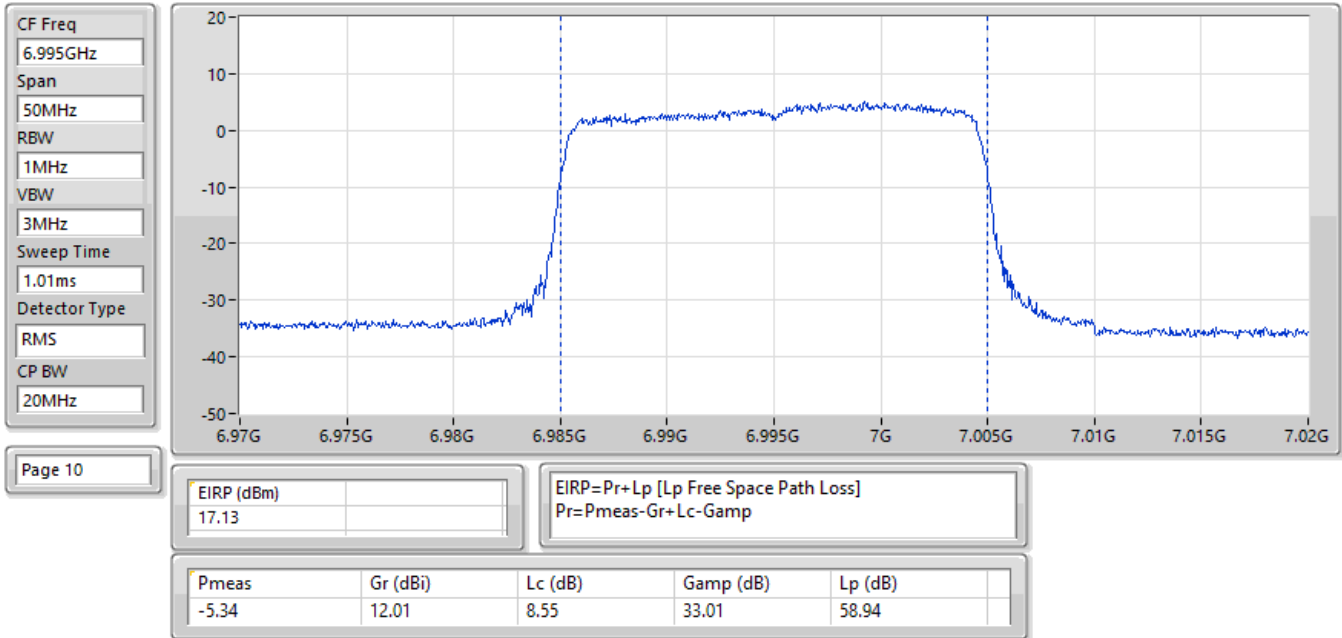
EIRP:Band:6.7G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6875MHz;TX



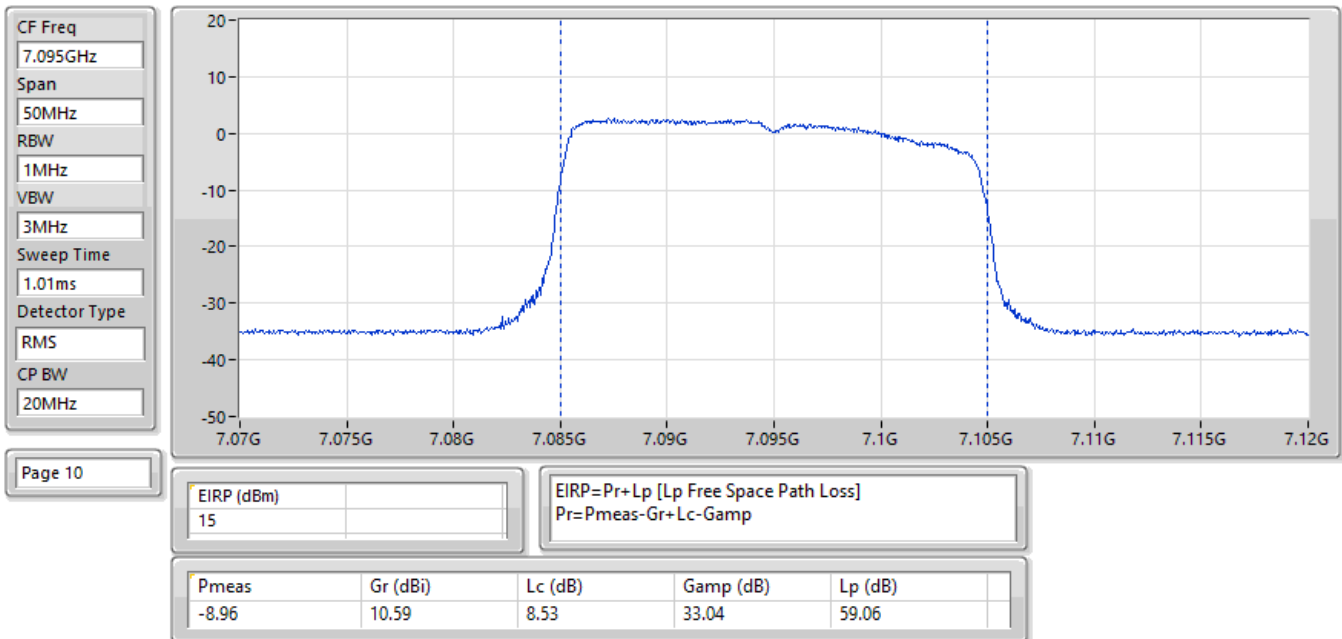
EIRP:Band:7.0G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6895MHz;TX



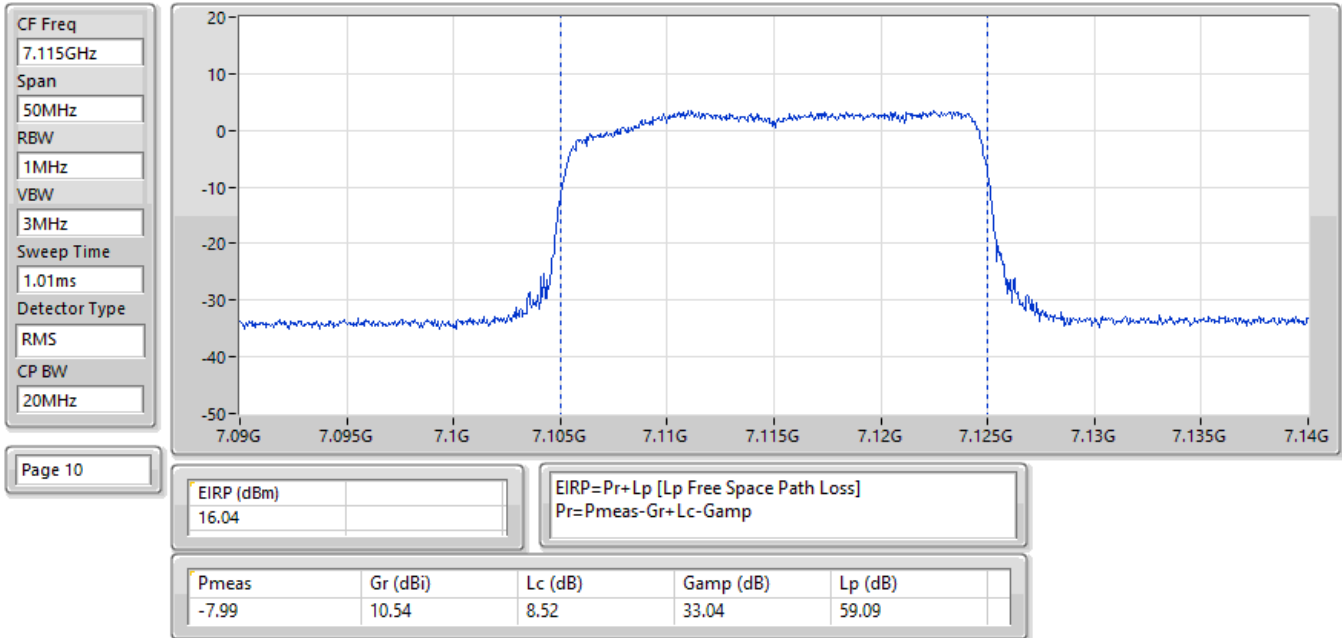
EIRP:Band:7.0G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6995MHz;TX



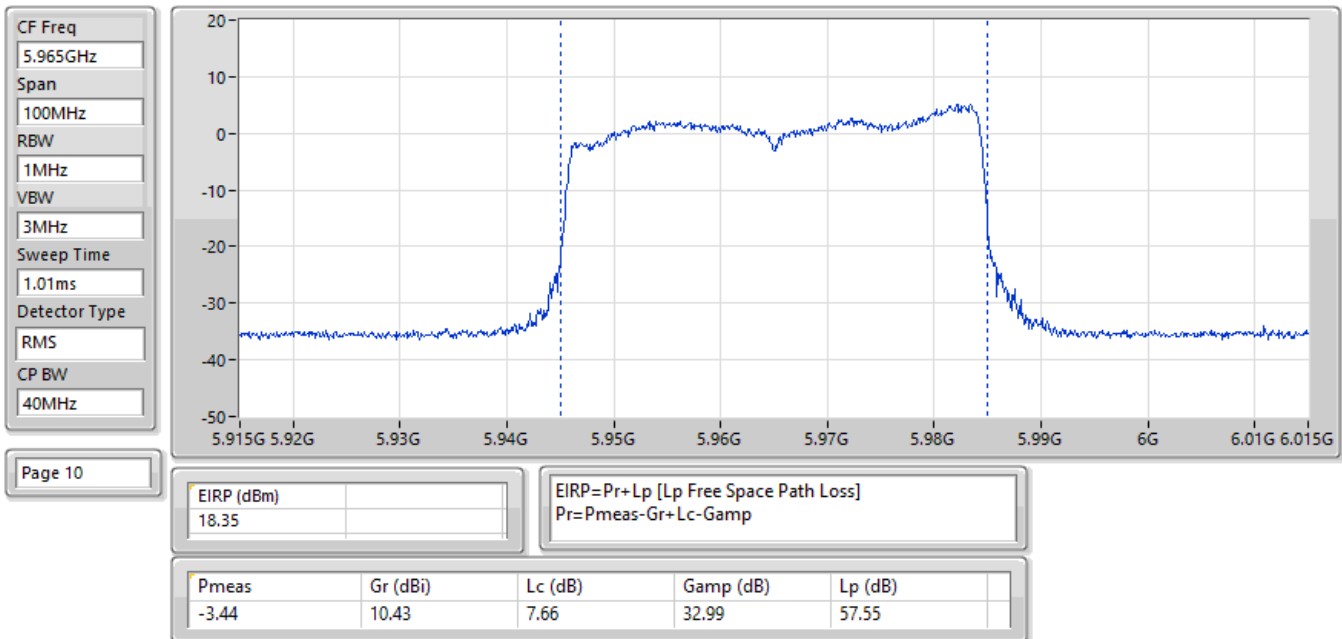
EIRP:Band:7.0G;be20,BF;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:7095MHz;TX



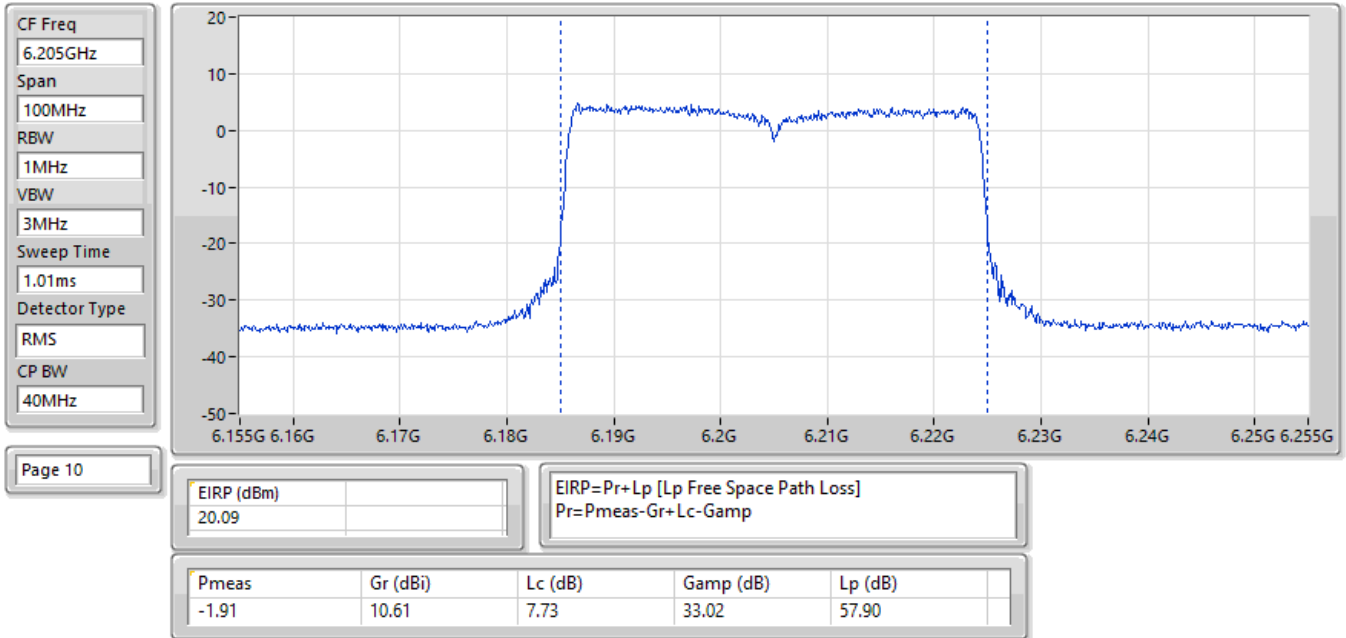
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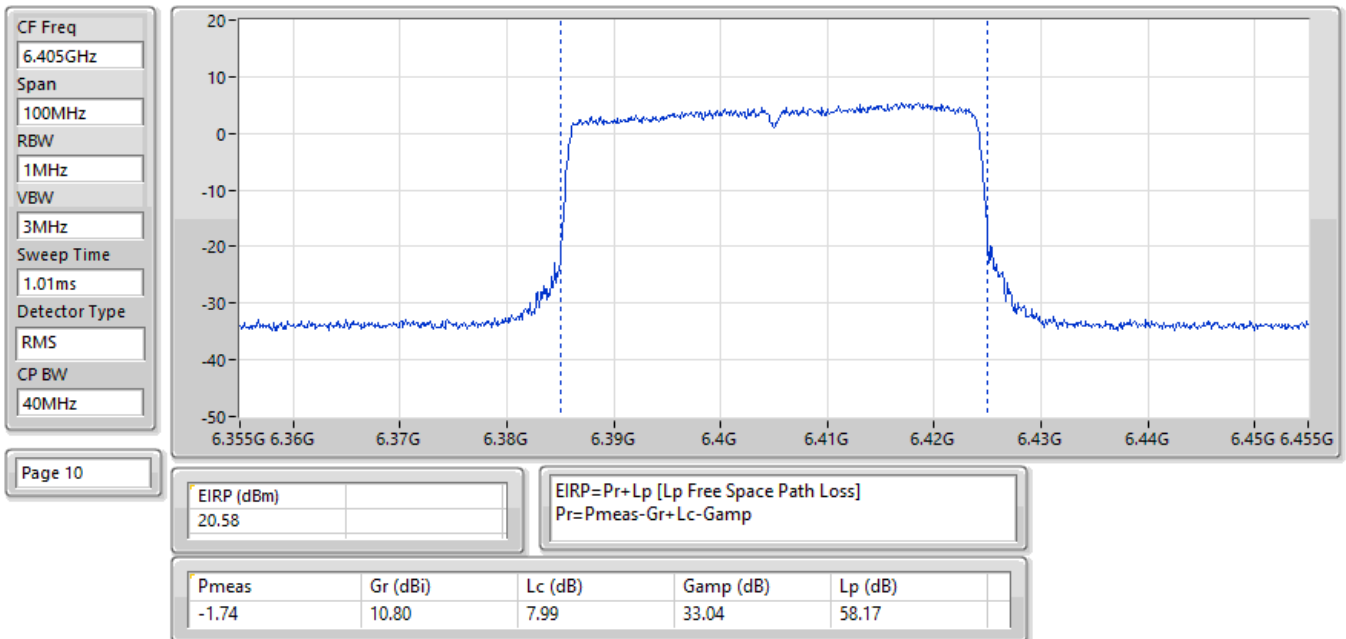
EIRP:Band:6.2G;be40,BF;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:5965MHz;TX



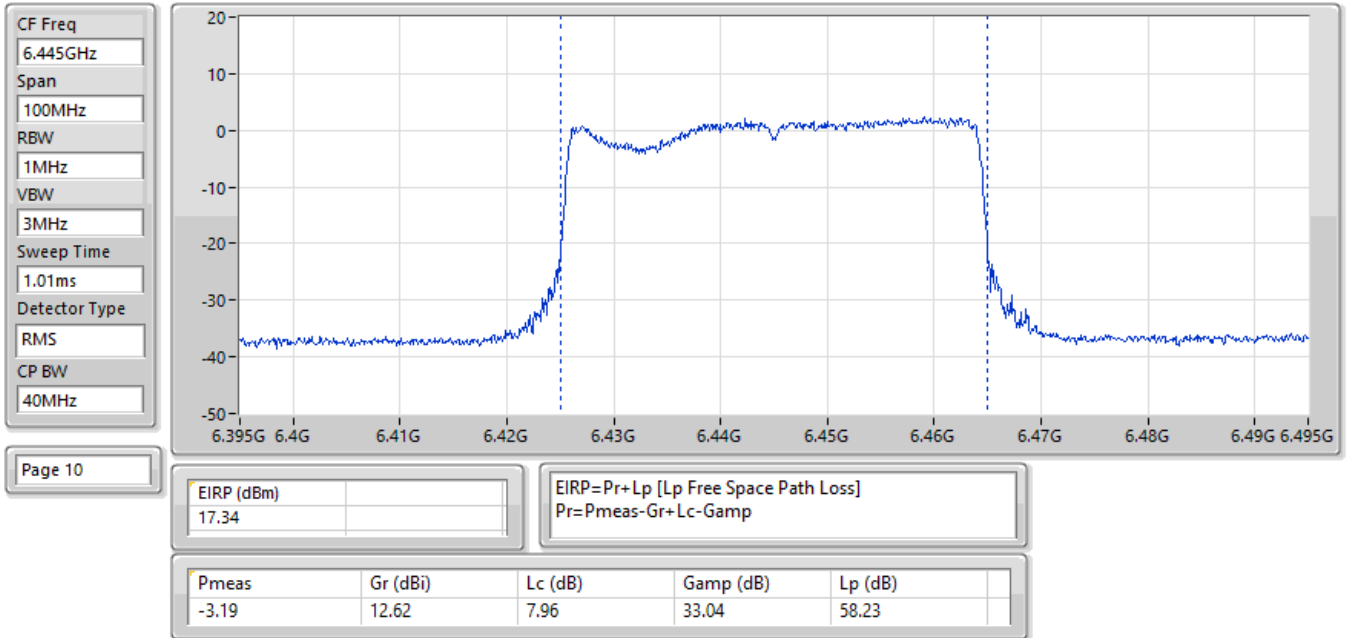
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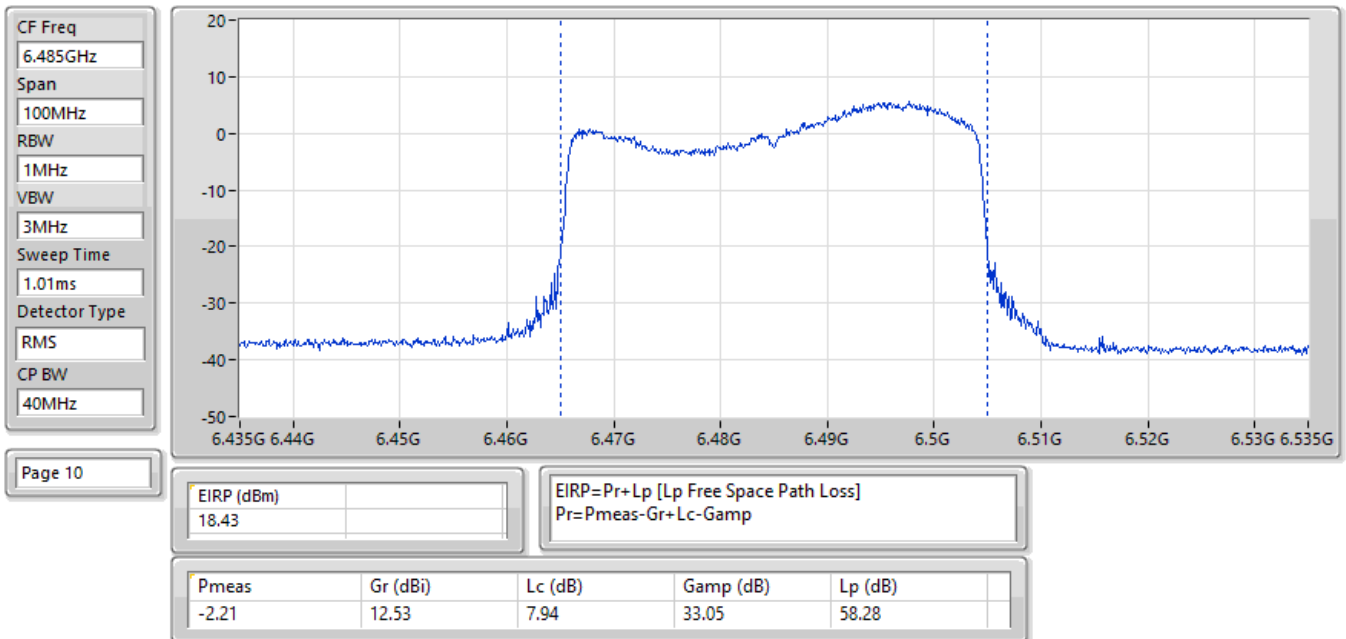
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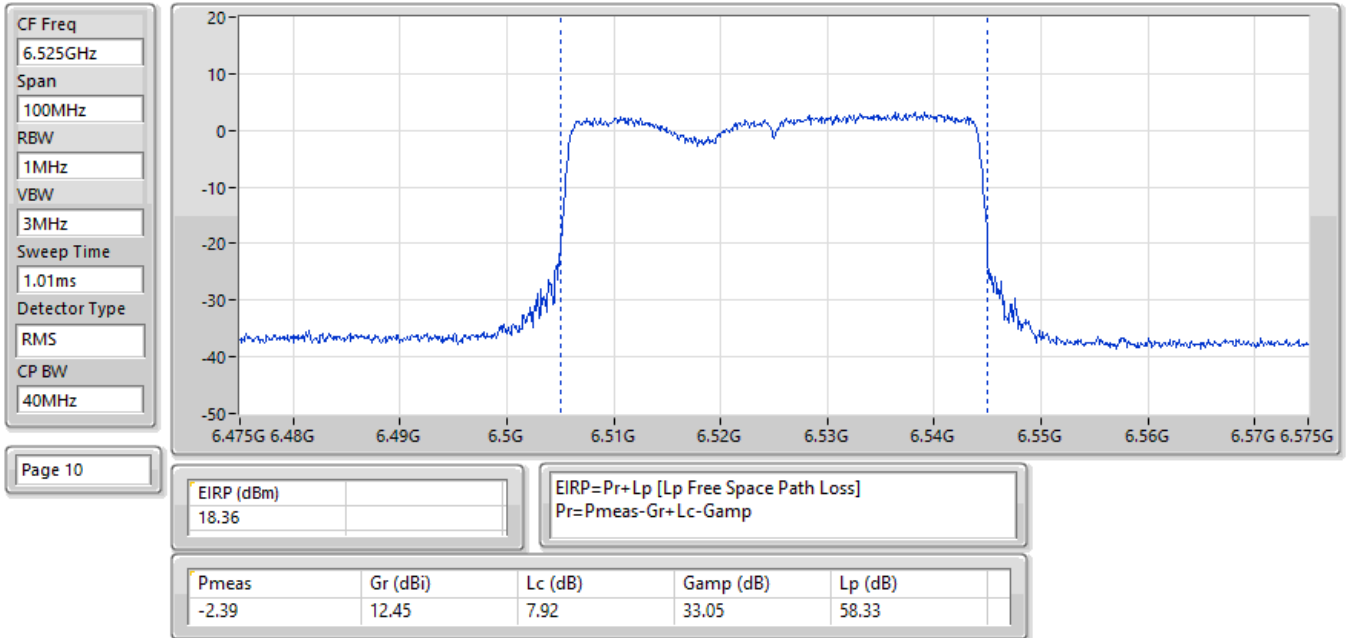
EIRP:Band:6.4G;be40,BF;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:6445MHz;TX



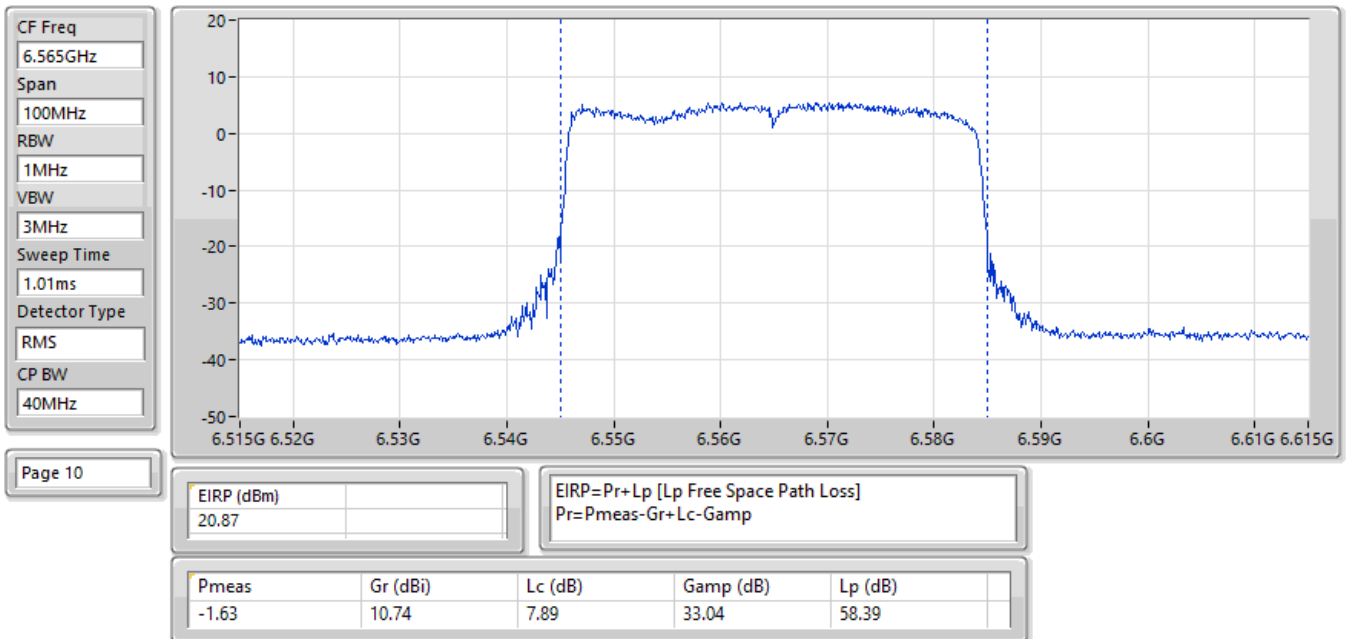
EIRP:Band:6.4G;be40,BF;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:6485MHz;TX



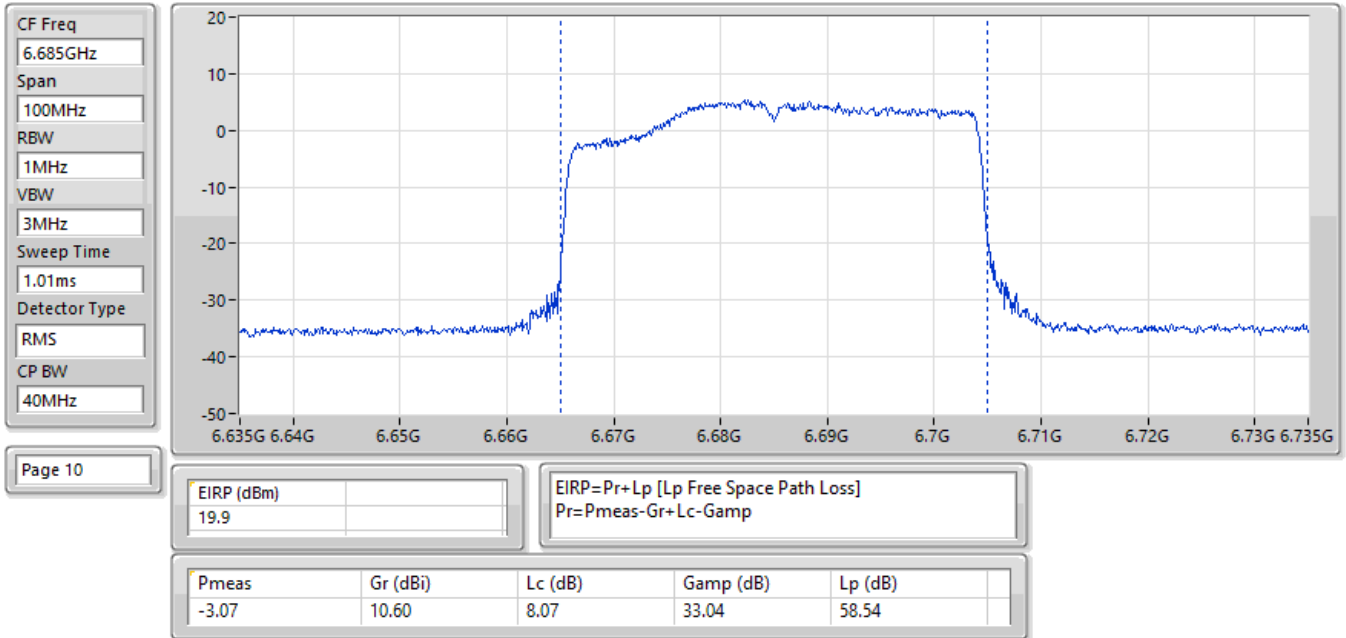
EIRP:Band:6.4G;be40,BF;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:6525MHz;TX



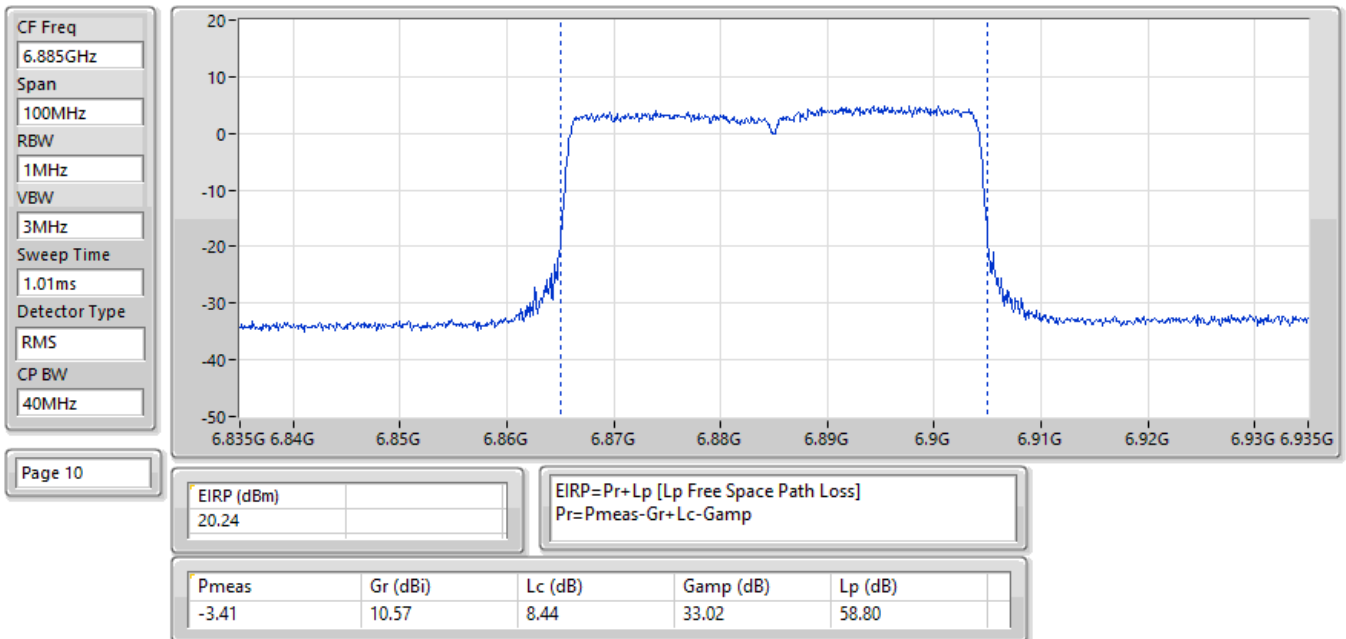
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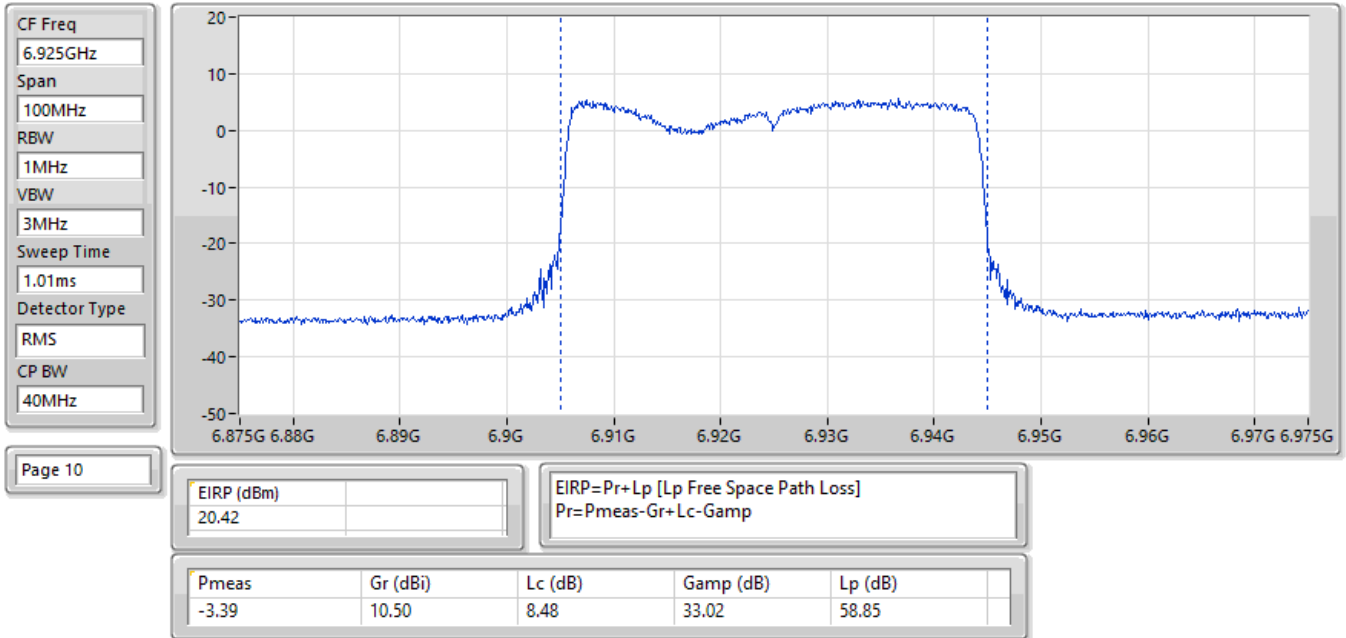
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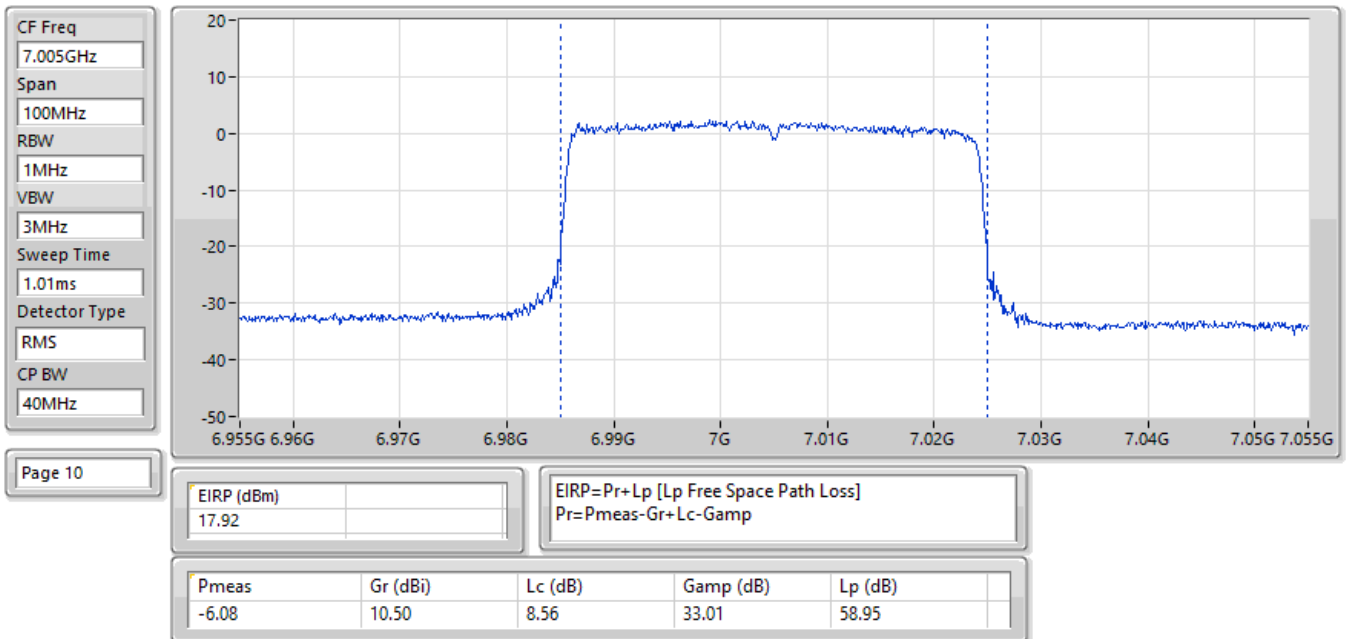
EIRP:Band:6.7G;be40,BF;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:6885MHz;TX



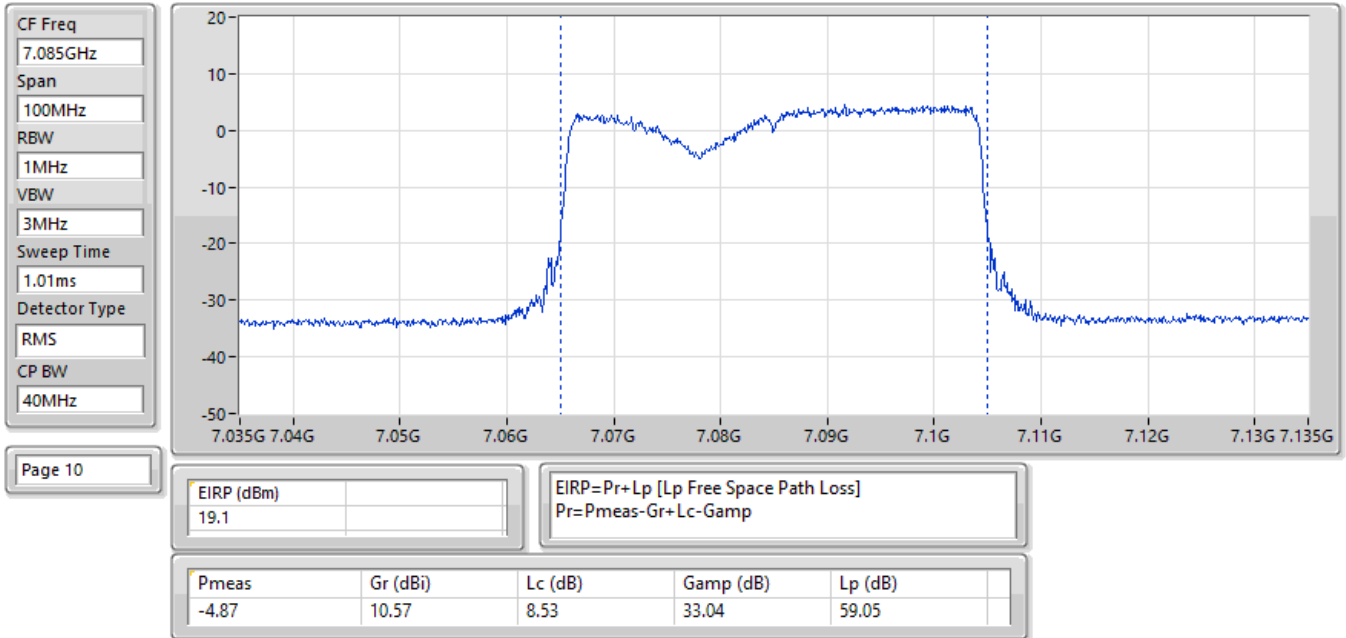
EIRP:Band:7.0G;be40,BF;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:6925MHz;TX



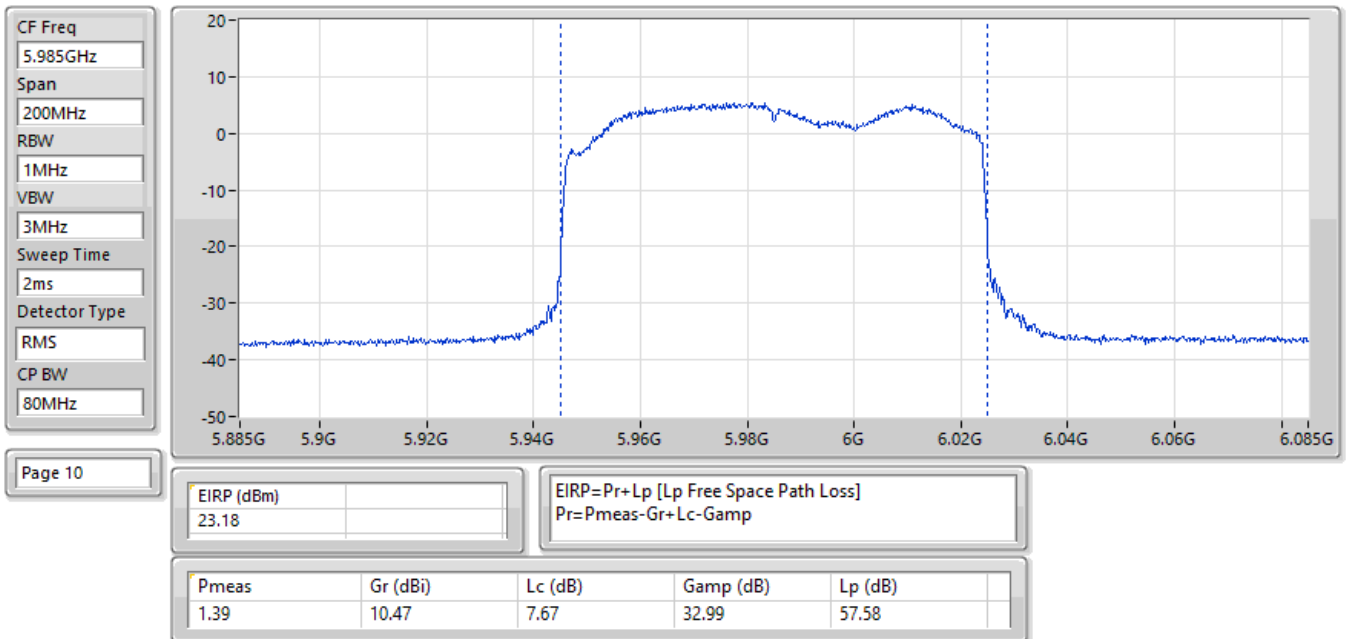
EIRP:Band:7.0G;be40,BF;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:7005MHz;TX



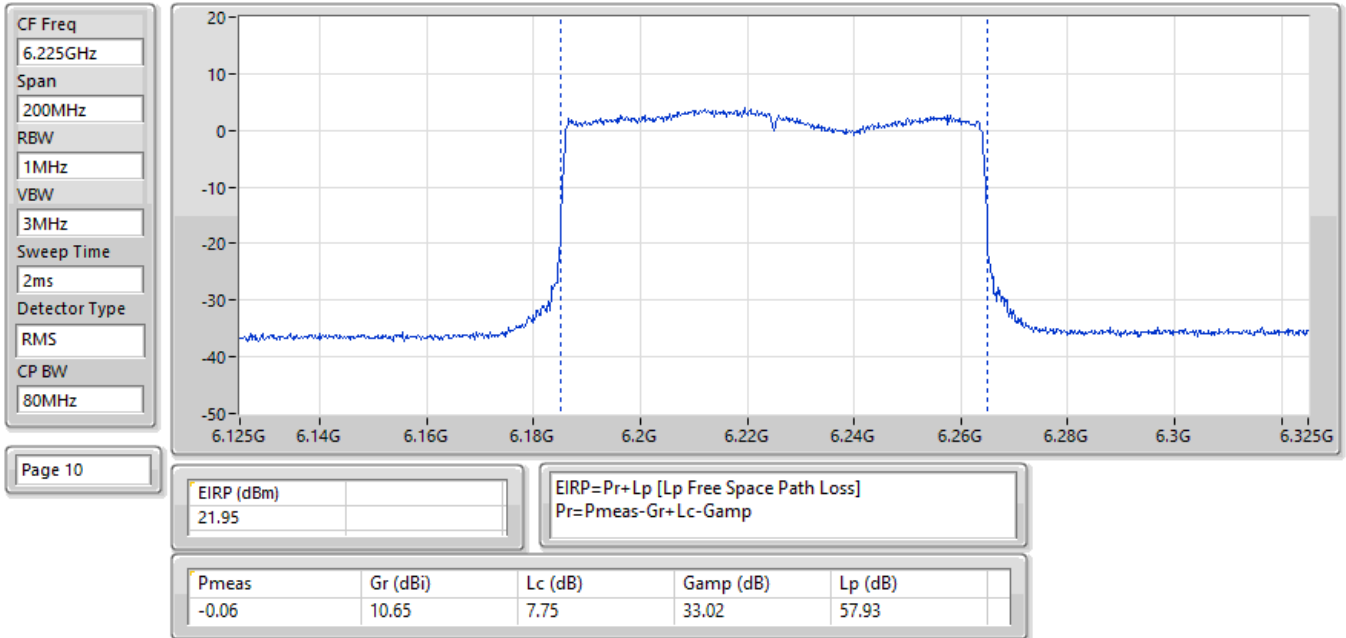
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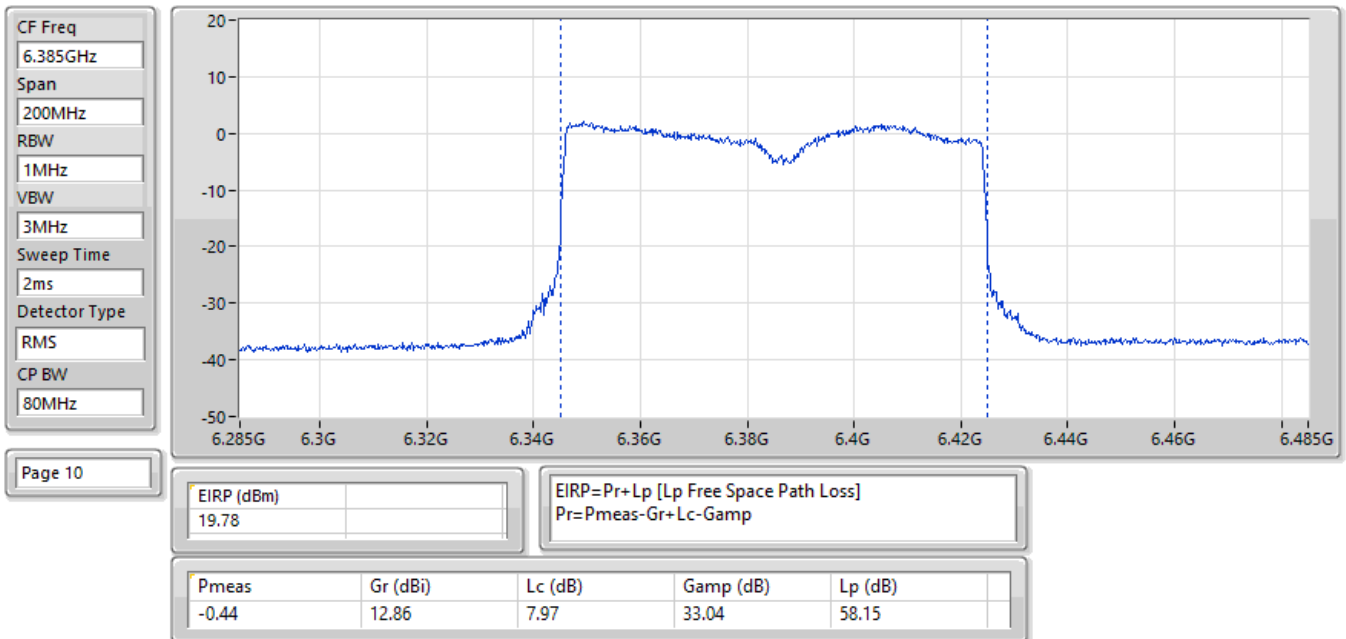
EIRP:Band:6.2G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:5985MHz;TX



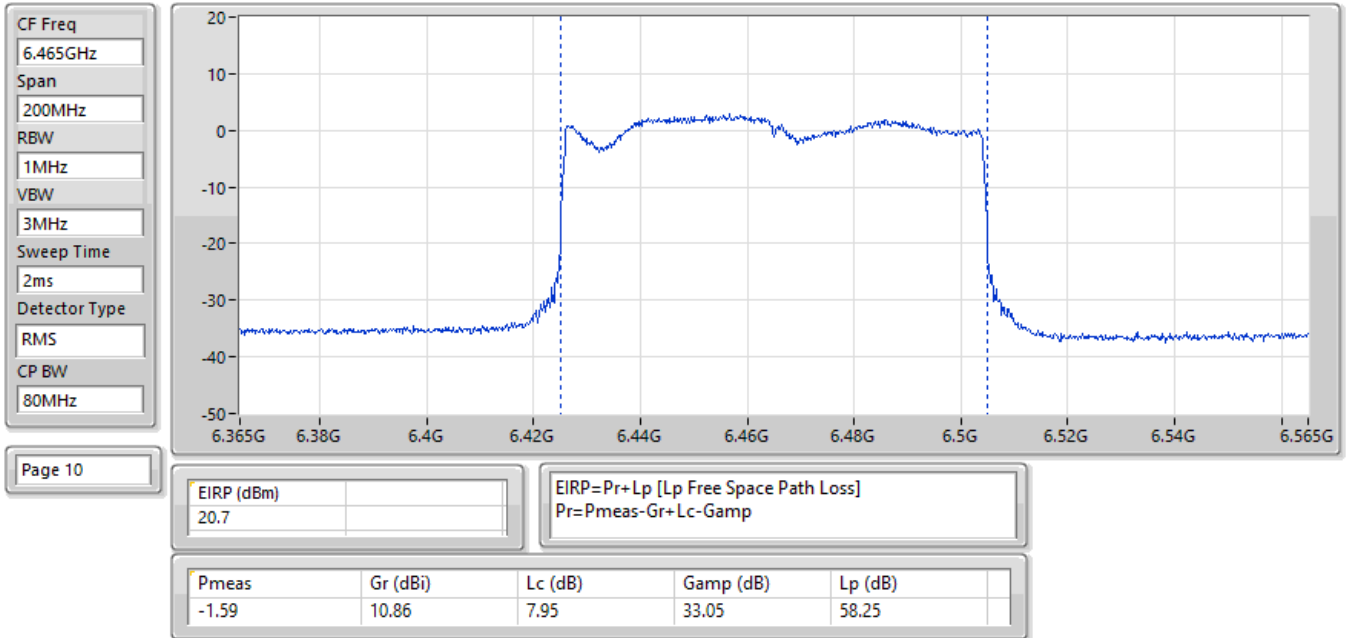
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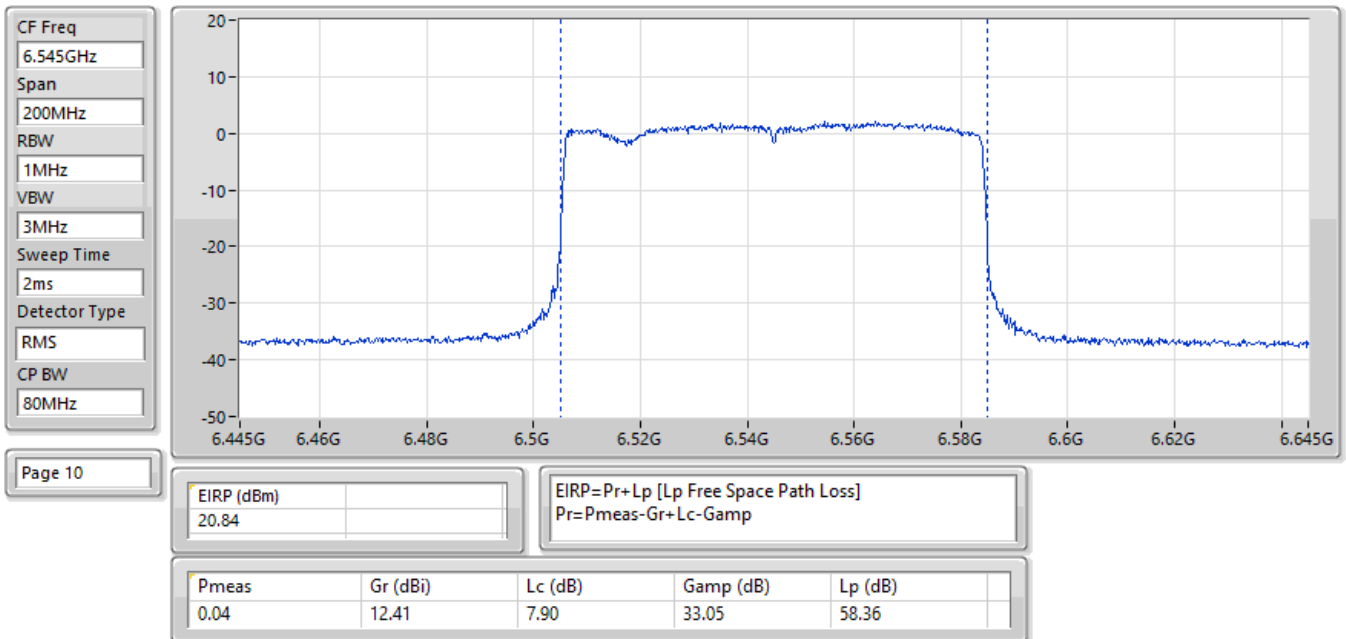
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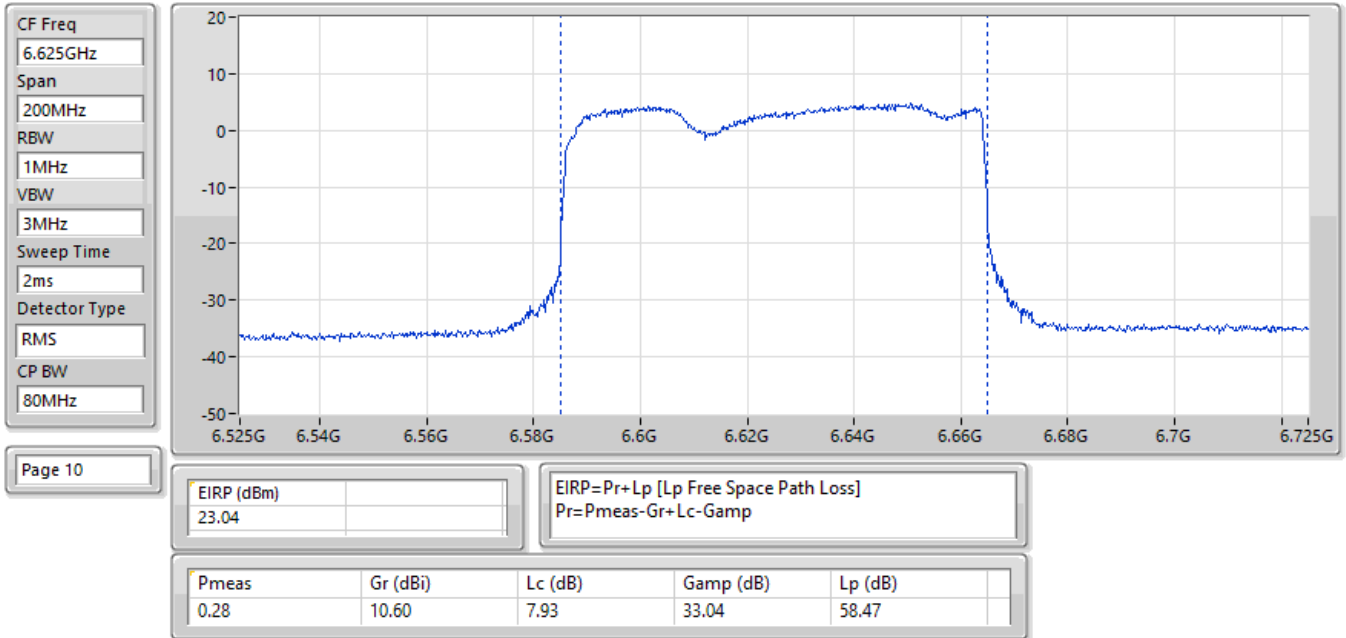
EIRP:Band:6.4G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:6465MHz;TX



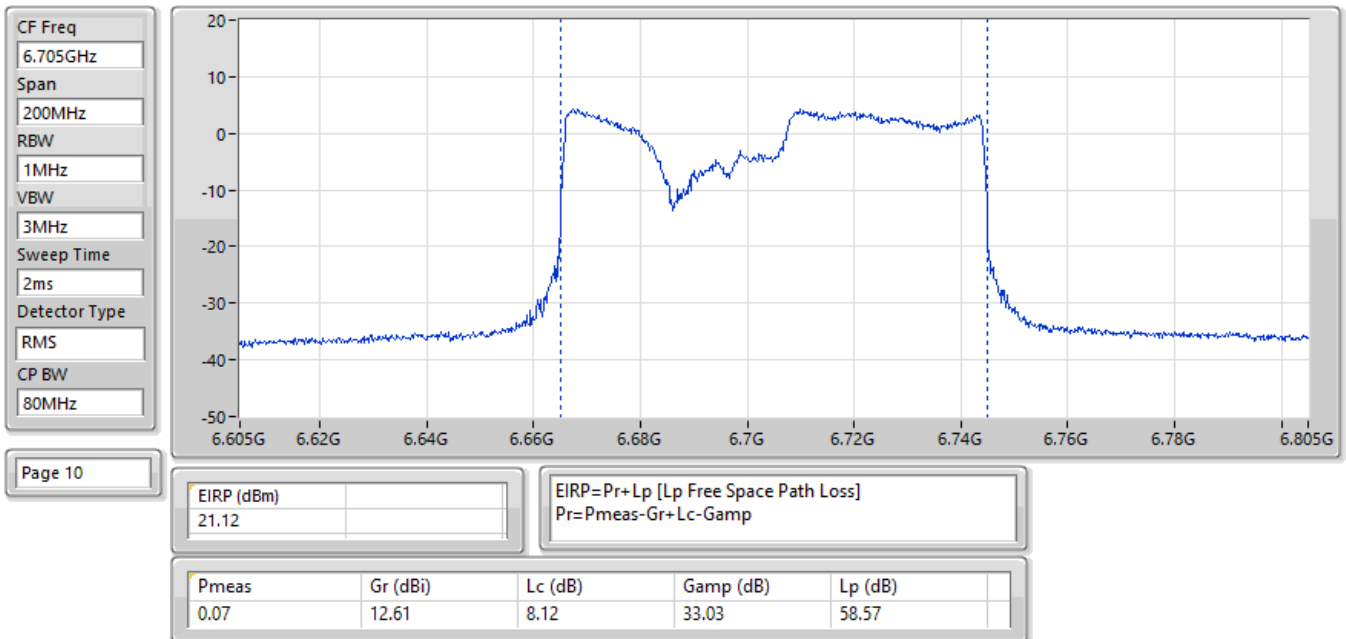
EIRP:Band:6.4G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:6545MHz;TX



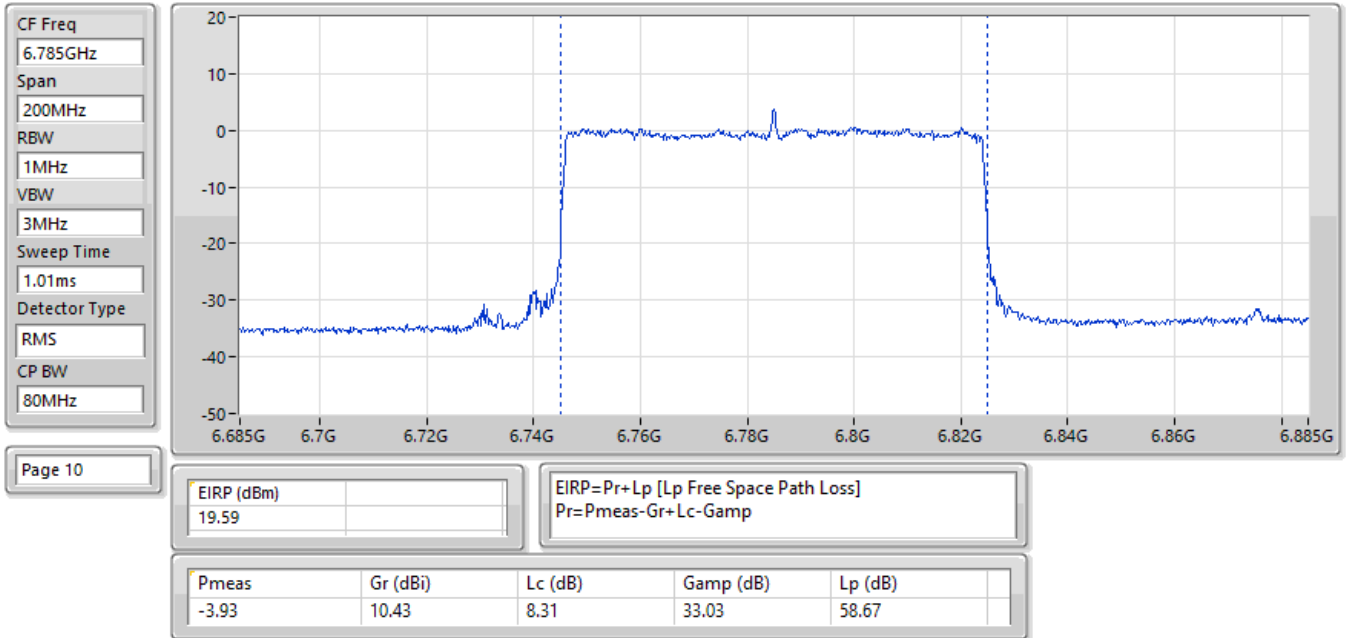
EIRP:Band:6.7G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:6625MHz;TX



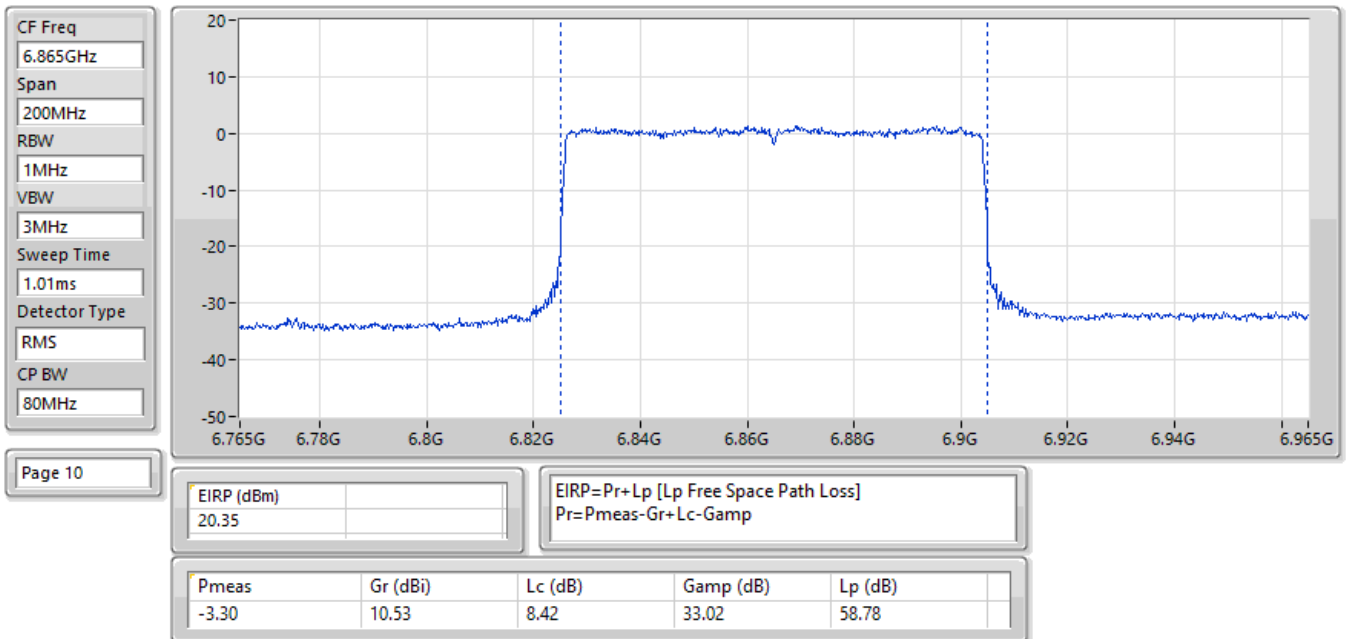
EIRP:Band:6.7G;be80,BF;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:6705MHz;TX



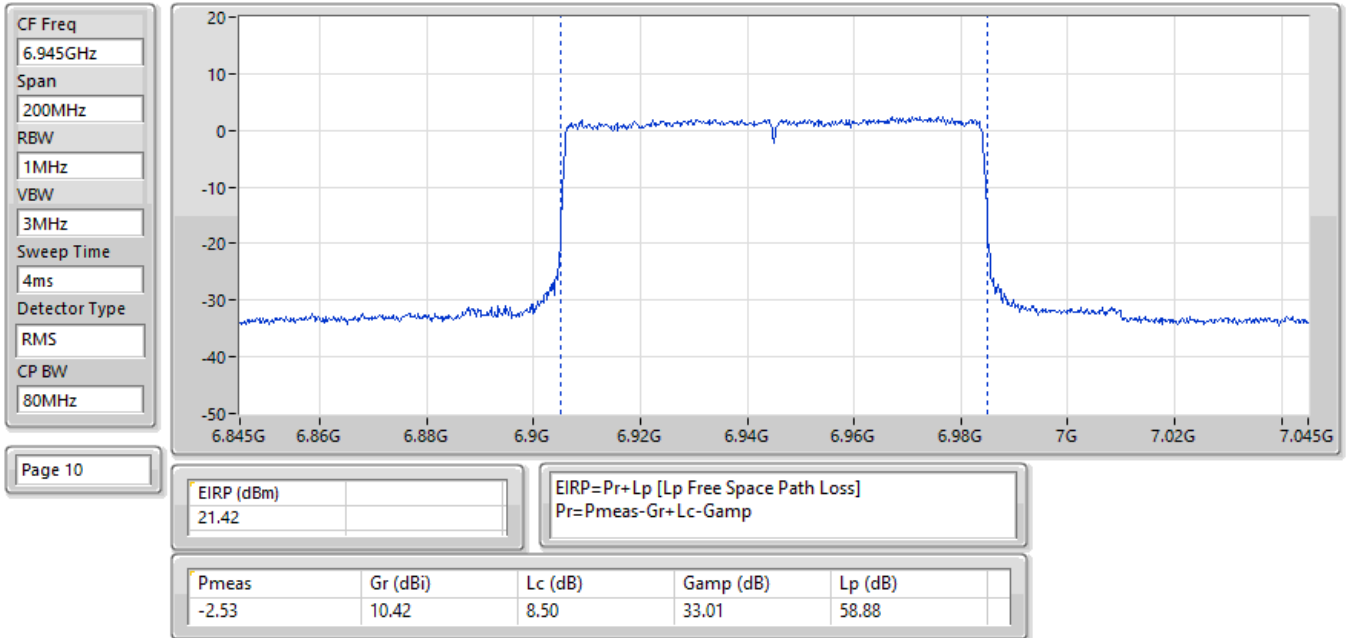
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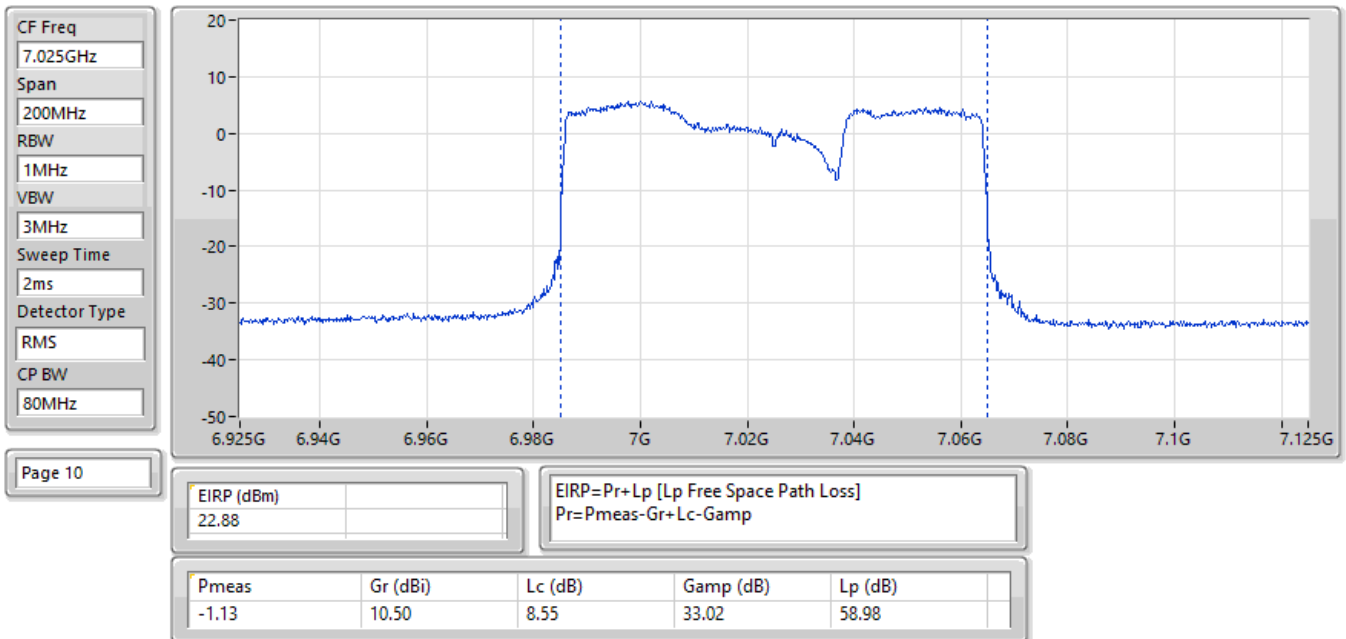
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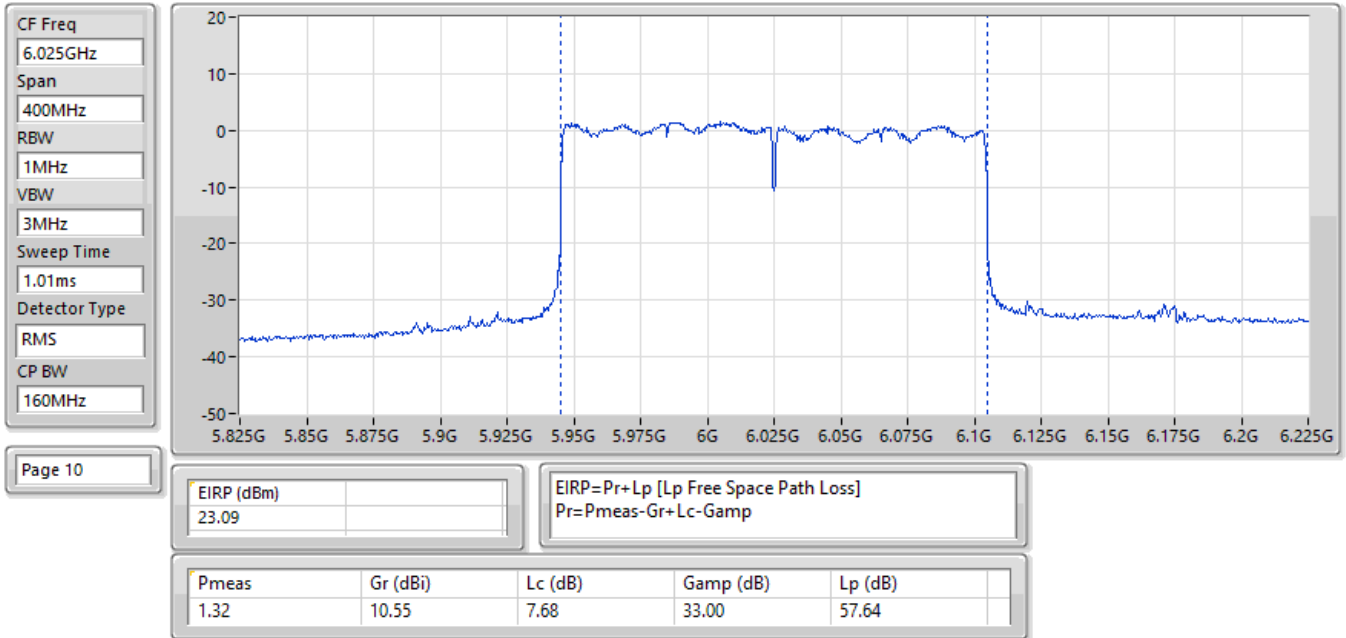
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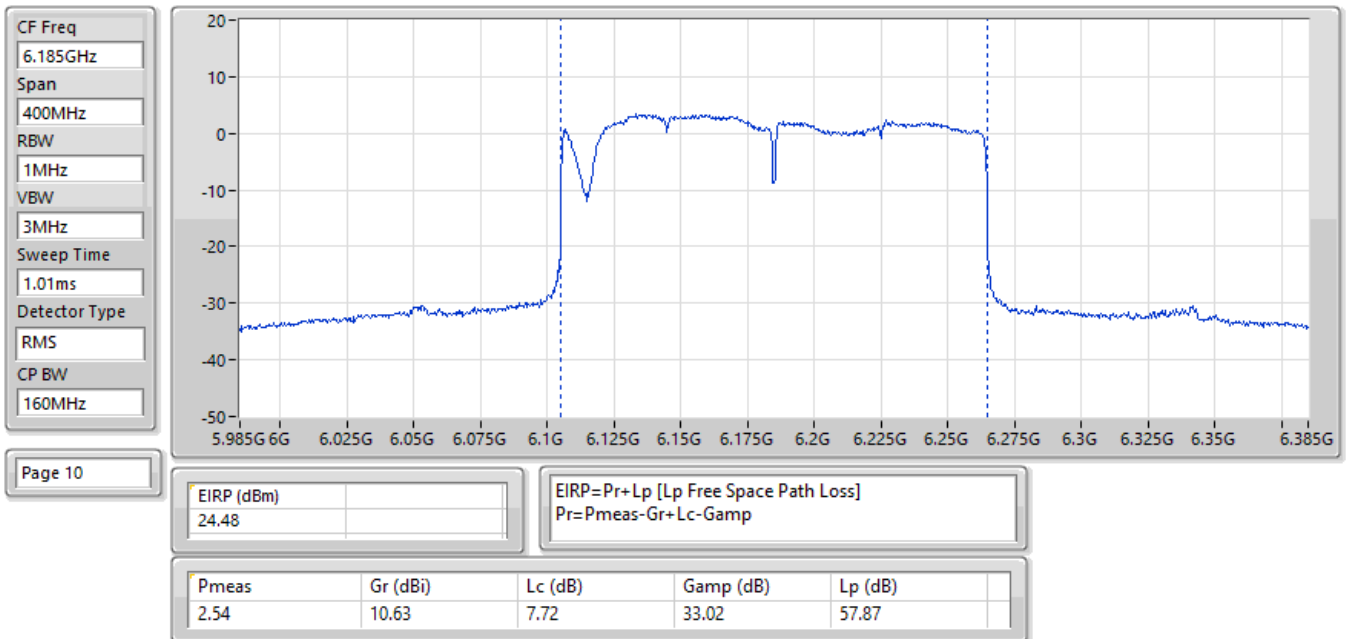
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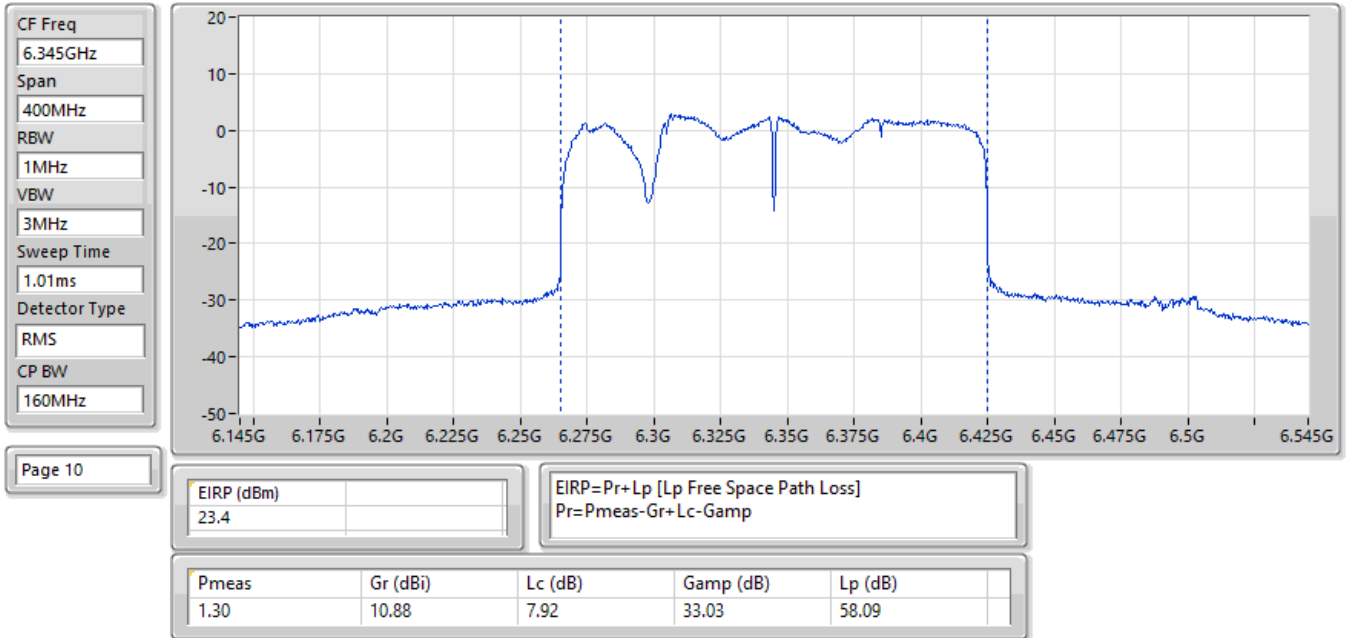
EIRP;Band:6.2G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:2;Ch:6025MHz;TX



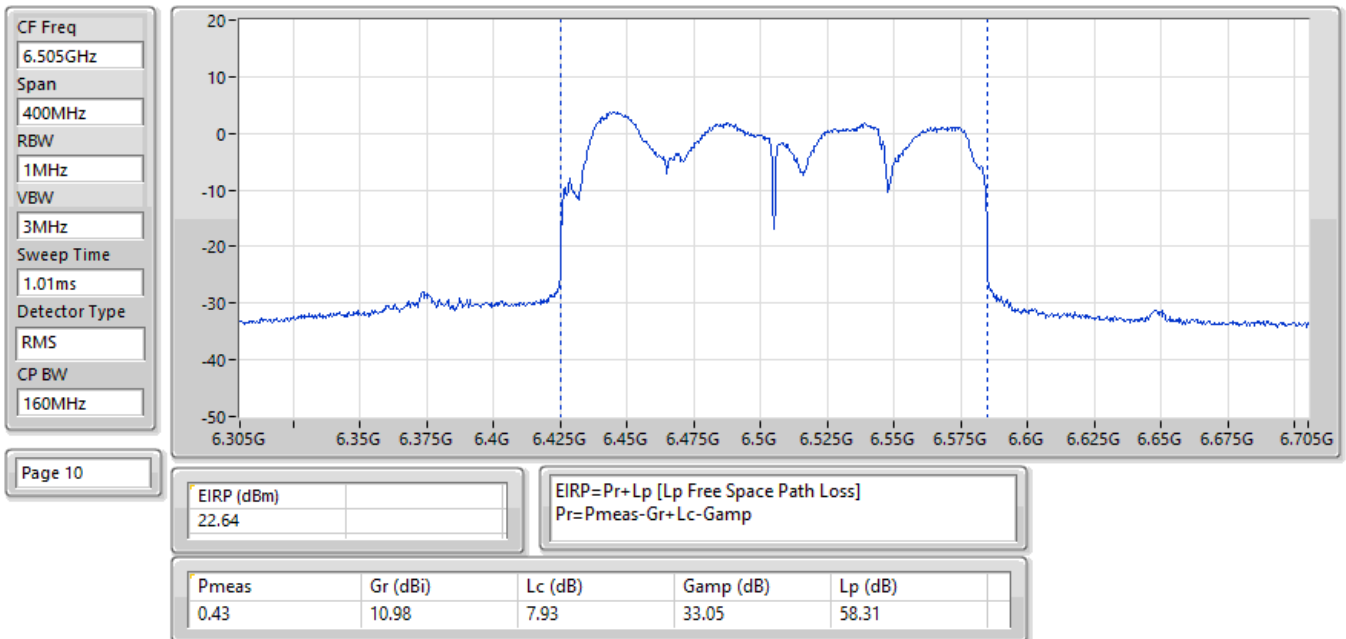
EIRP;Band:6.2G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:2;Ch:6185MHz;TX



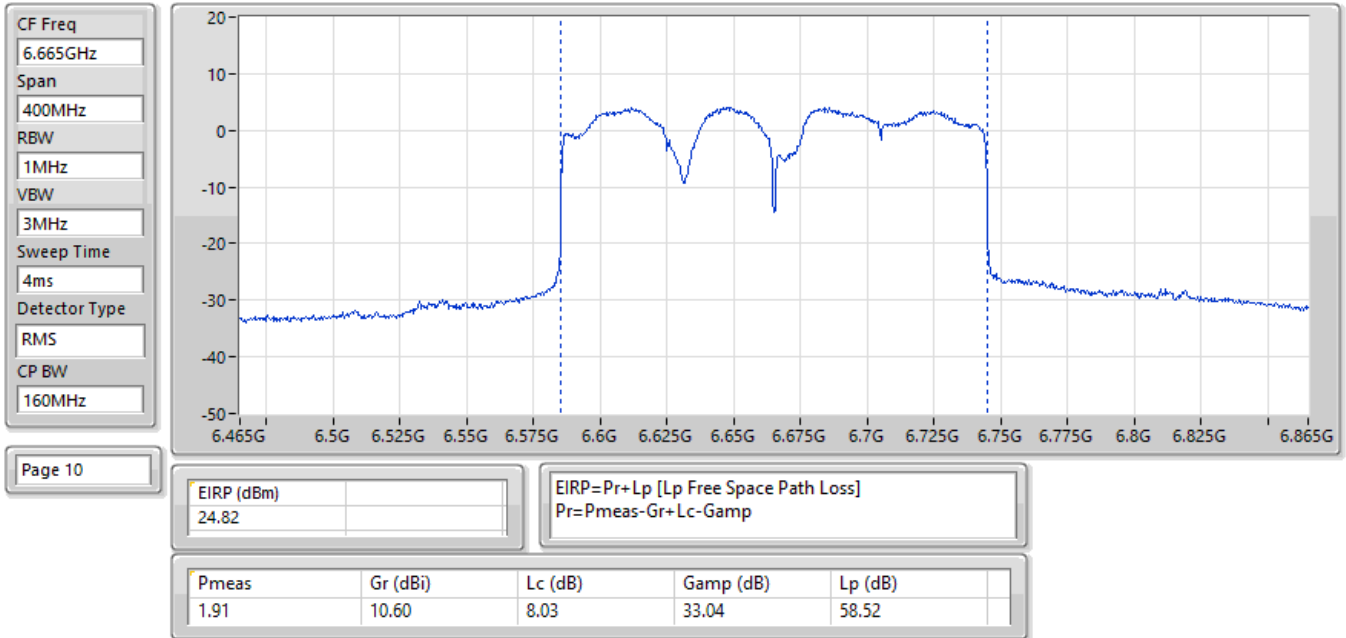
EIRP;Band:6.2G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:2;Ch:6345MHz;TX



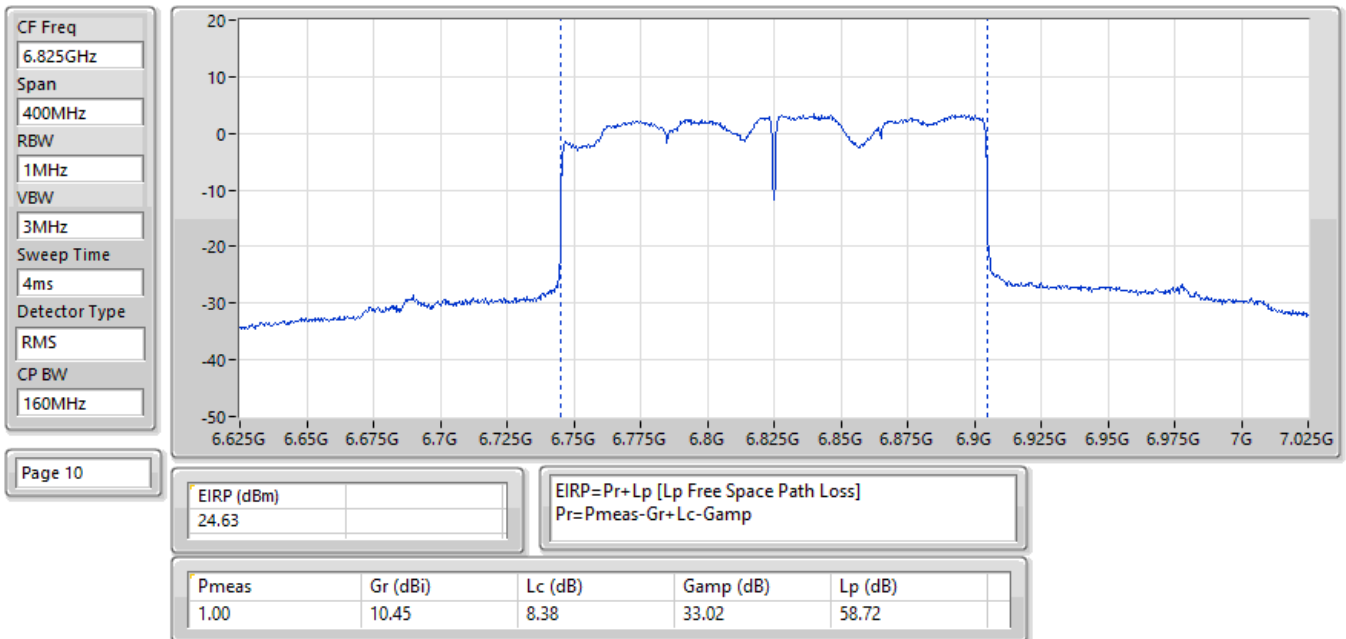
EIRP;Band:6.4G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:2;Ch:6505MHz;TX



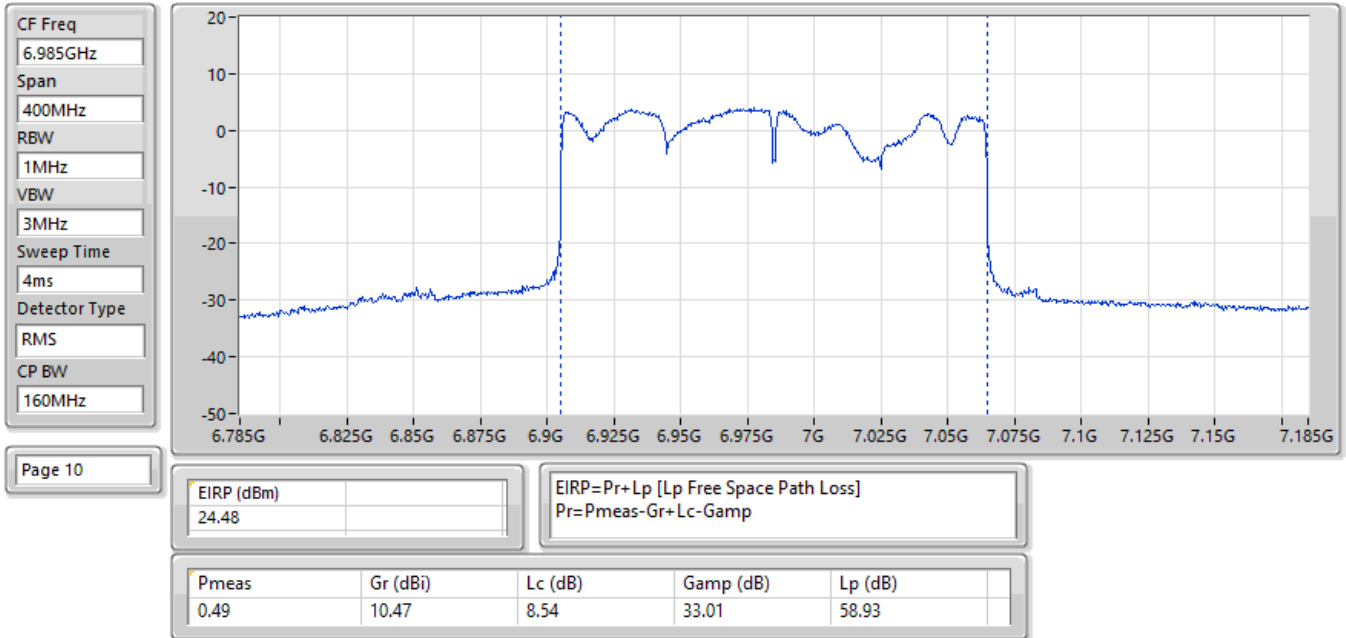
EIRP;Band:6.7G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:2;Ch:6665MHz;TX



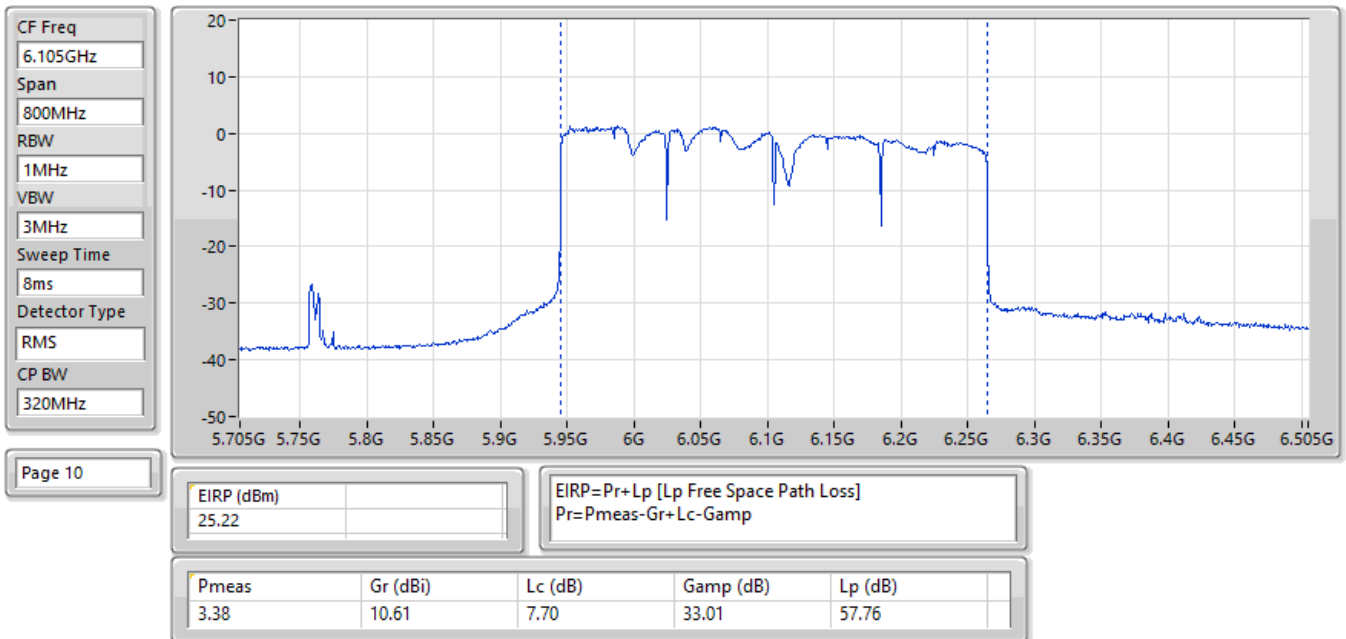
EIRP;Band:6.7G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:2;Ch:6825MHz;TX



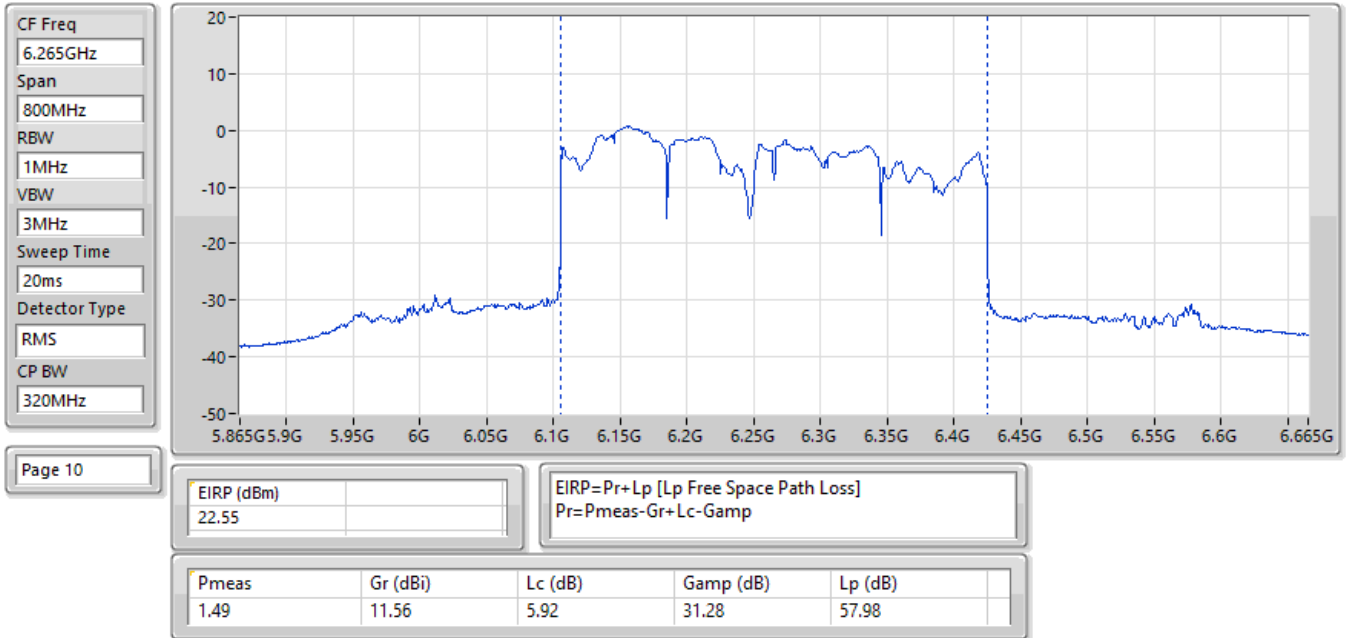
EIRP;Band:7.0G;be160,BF;BWch:160MHz;Nss:1,(M0);Nant:2;Ch:6985MHz;TX



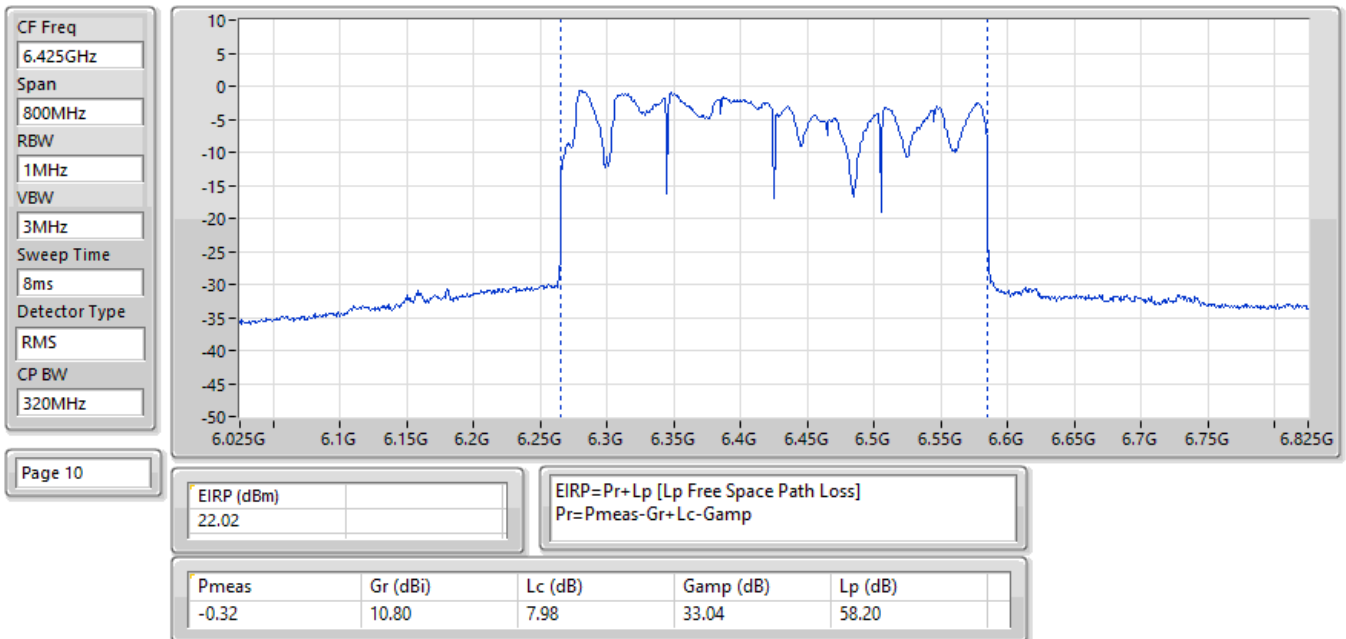
EIRP;Band:6.2G;be320,BF;BWch:320MHz;Nss:1,(M0);Nant:2;Ch:6105MHz;TX



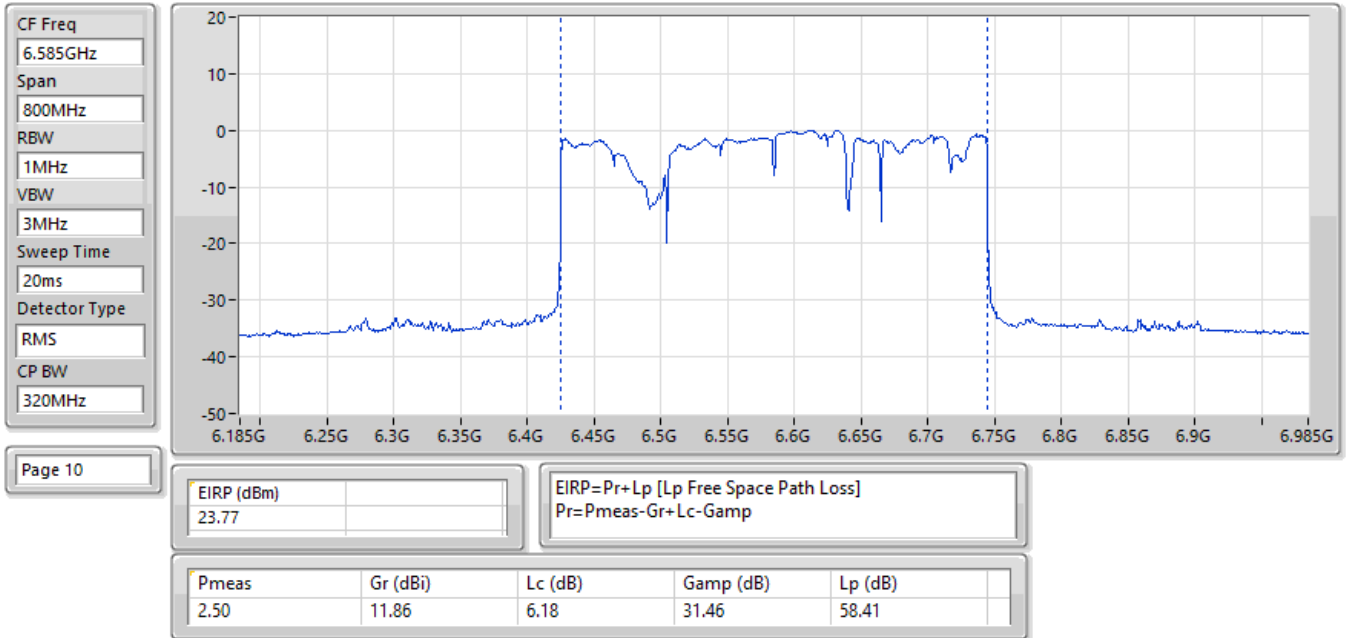
EIRP;Band:6.2G;be320,BF;BWch:320MHz;Nss:1,(M0);Nant:2;Ch:6265MHz;TX



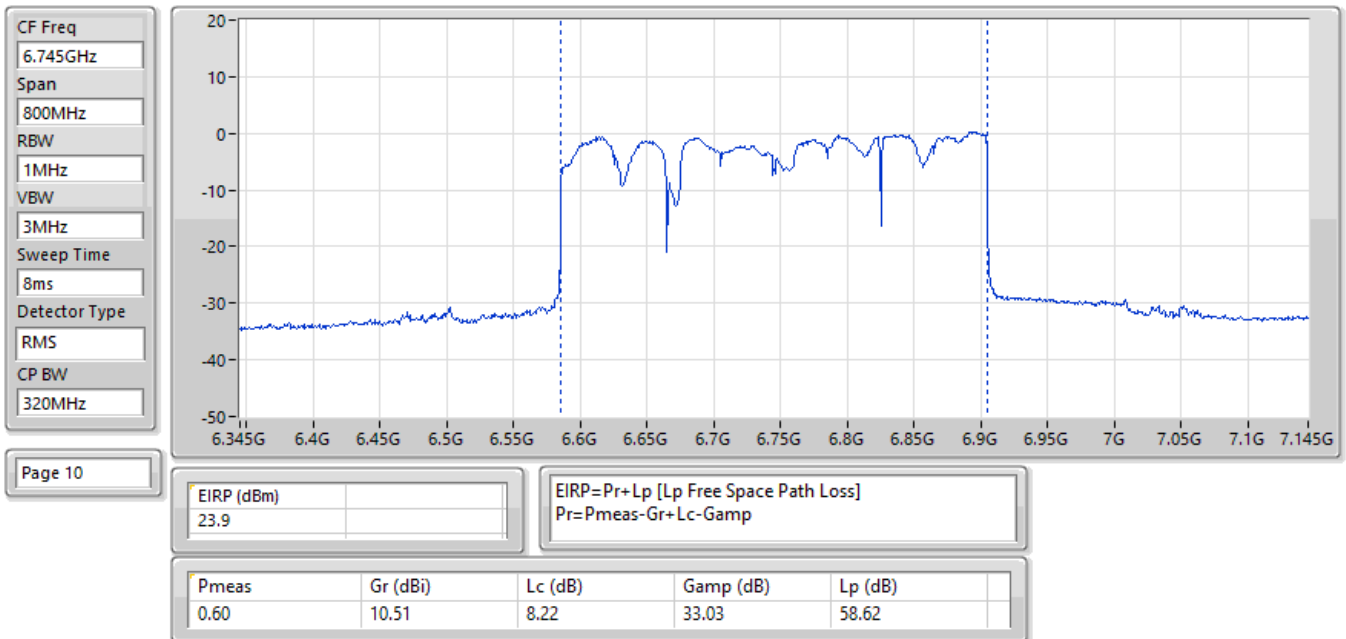
EIRP;Band:6.2G;be320,BF;BWch:320MHz;Nss:1,(M0);Nant:2;Ch:6425MHz;TX

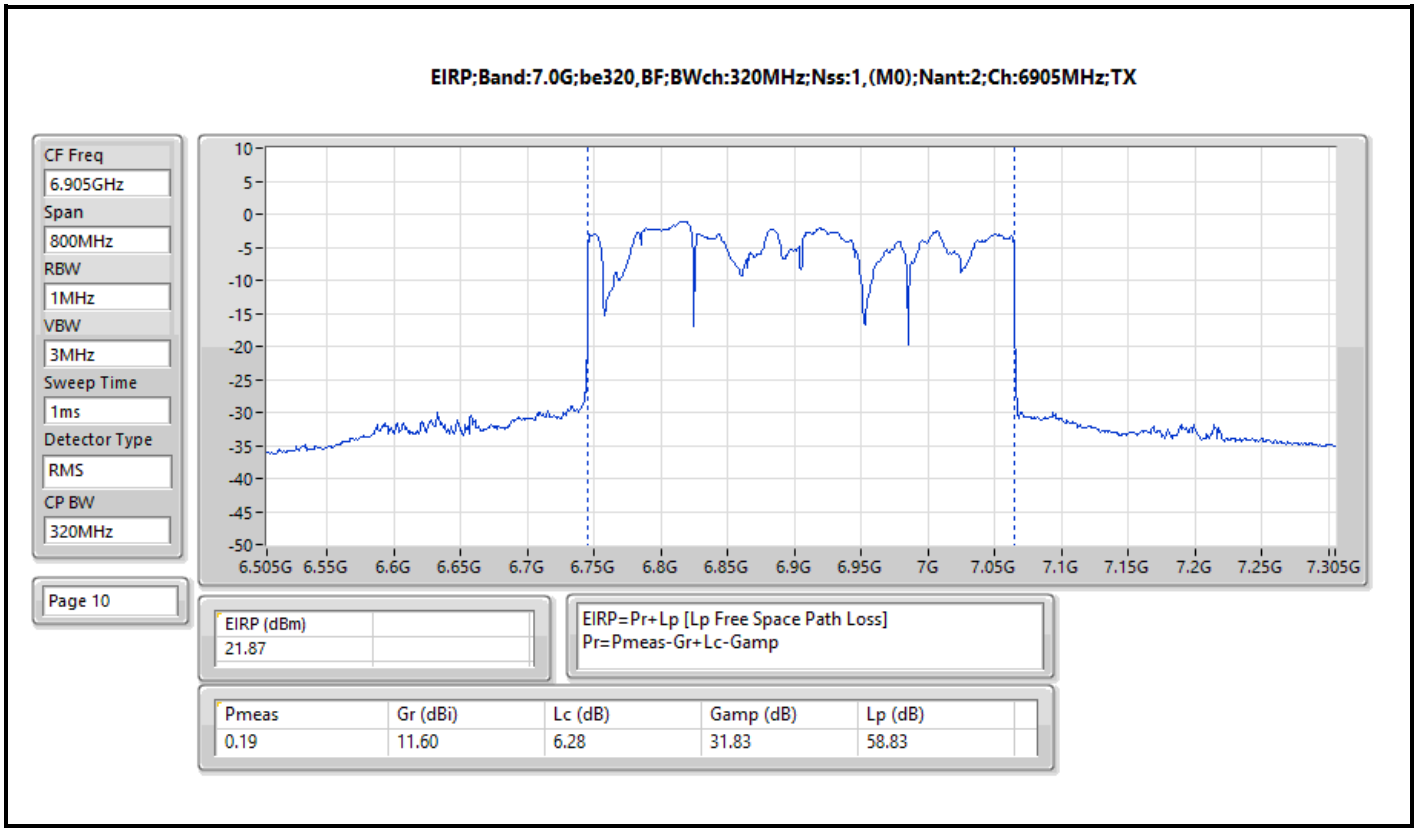


EIRP;Band:6.4G;be320,BF;BWch:320MHz;Nss:1,(M0);Nant:2;Ch:6585MHz;TX



EIRP;Band:6.7G;be320,BF;BWch:320MHz;Nss:1,(M0);Nant:2;Ch:6745MHz;TX





Summary

Mode	EIRP PD (dBm/RBW)
5.925-6.425GHz	-
802.11be EHT20_Nss1,(MCS0)_2TX	4.68
802.11be EHT40_Nss1,(MCS0)_2TX	4.86
802.11be EHT80_Nss1,(MCS0)_2TX	4.93
802.11be EHT160_Nss1,(MCS0)_2TX	4.94
802.11be EHT320_Nss1,(MCS0)_2TX	4.78
6.425-6.525GHz	-
802.11be EHT20_Nss1,(MCS0)_2TX	4.98
802.11be EHT40_Nss1,(MCS0)_2TX	4.71
802.11be EHT80_Nss1,(MCS0)_2TX	4.95
802.11be EHT160_Nss1,(MCS0)_2TX	4.94
802.11be EHT320_Nss1,(MCS0)_2TX	4.45
6.525-6.875GHz	-
802.11be EHT20_Nss1,(MCS0)_2TX	4.93
802.11be EHT40_Nss1,(MCS0)_2TX	4.90
802.11be EHT80_Nss1,(MCS0)_2TX	4.75
802.11be EHT160_Nss1,(MCS0)_2TX	4.84
802.11be EHT320_Nss1,(MCS0)_2TX	4.29
6.875-7.125GHz	-
802.11be EHT20_Nss1,(MCS0)_2TX	4.79
802.11be EHT40_Nss1,(MCS0)_2TX	4.93
802.11be EHT80_Nss1,(MCS0)_2TX	4.91
802.11be EHT160_Nss1,(MCS0)_2TX	4.77

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



Radiated PSD For Non-beamforming mode

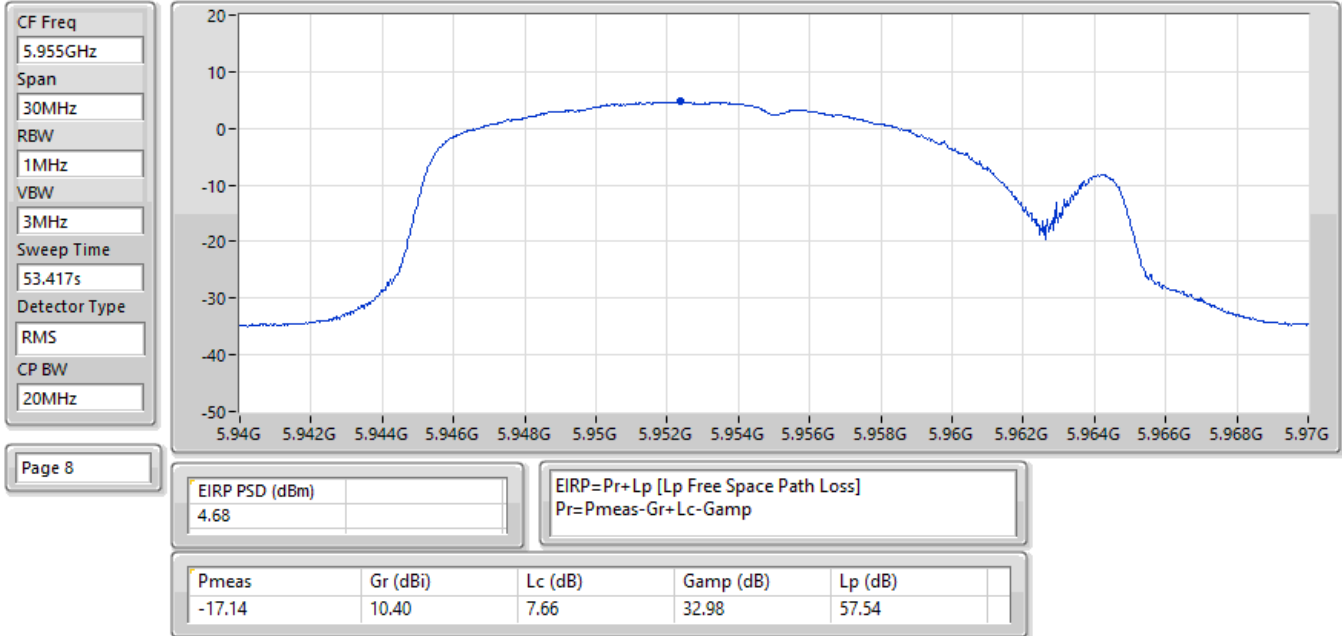
Appendix D.1

Result

Mode	Result	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-
5955MHz	Pass	4.68	5.00
6195MHz	Pass	4.53	5.00
6415MHz	Pass	4.64	5.00
6435MHz	Pass	4.58	5.00
6475MHz	Pass	4.98	5.00
6515MHz	Pass	4.57	5.00
6535MHz	Pass	4.78	5.00
6695MHz	Pass	4.88	5.00
6875MHz Straddle 6.525-6.875GHz	Pass	4.93	5.00
6895MHz	Pass	4.70	5.00
6995MHz	Pass	4.69	5.00
7095MHz	Pass	4.62	5.00
7115MHz	Pass	4.79	5.00
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-
5965MHz	Pass	4.60	5.00
6205MHz	Pass	4.86	5.00
6405MHz	Pass	4.79	5.00
6445MHz	Pass	4.64	5.00
6485MHz	Pass	4.71	5.00
6525MHz Straddle 6.425-6.525GHz	Pass	4.64	5.00
6565MHz	Pass	4.83	5.00
6685MHz	Pass	4.53	5.00
6885MHz Straddle 6.525-6.875GHz	Pass	4.90	5.00
6925MHz	Pass	4.61	5.00
7005MHz	Pass	4.91	5.00
7085MHz	Pass	4.93	5.00
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-
5985MHz	Pass	4.51	5.00
6225MHz	Pass	4.53	5.00
6385MHz	Pass	4.93	5.00
6465MHz	Pass	4.95	5.00
6545MHz Straddle 6.425-6.525GHz	Pass	4.95	5.00
6625MHz	Pass	4.70	5.00
6705MHz	Pass	4.75	5.00
6785MHz	Pass	4.67	5.00
6865MHz Straddle 6.525-6.875GHz	Pass	4.65	5.00
6945MHz	Pass	4.91	5.00
7025MHz	Pass	4.81	5.00
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-
6025MHz	Pass	4.88	5.00
6185MHz	Pass	4.94	5.00
6345MHz	Pass	4.81	5.00
6505MHz Straddle 6.425-6.525GHz	Pass	4.94	5.00
6665MHz	Pass	4.84	5.00
6825MHz Straddle 6.525-6.875GHz	Pass	4.66	5.00
6985MHz	Pass	4.77	5.00
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-
6105MHz	Pass	4.78	5.00
6265MHz	Pass	4.55	5.00
6425MHz Straddle 5.925-6.425GHz	Pass	4.54	5.00
6585MHz	Pass	4.45	5.00
6745MHz Straddle 6.525-6.875GHz	Pass	4.29	5.00
6905MHz	Pass	1.40	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;

EIRP PSD;Band:6.2G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:5955MHz;TX



EIRP PSD;Band:6.2G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6195MHz;TX

