

Report No.: SEWM2207000107RG07

Rev.: 01

Page: 1 of 337

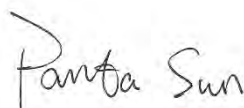
TEST REPORT

Application No.: SEWM2207000107RG
Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant: Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer: Lenovo PC HK Limited
Address of Manufacturer: 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China
EUT Description: Portable Tablet Computer
Model No.: TB350FU
Trade Mark: Lenovo
FCC ID: O57TB350FU
Standards: FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2022/07/11
Date of Test: 2022/07/16 to 2022/09/19
Date of Issue: 2022/09/19

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Panta Sun
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/09/19		Original

Prepared By		 <hr/> (Tizy Song) / Test Engineer
Checked By		 <hr/> (Well Wei) / Reviewer



2 Test Summary

Test Item	FCC Rule No.	Test Requirements	Test Result	Result
Antenna Requirement	15.203/15.407(a)	--	Clause 4.1	PASS
AC Power Line Conducted Emissions	15.407(b)(8)	< FCC 15.207 limits	Clause 4.2	PASS
Duty Cycle	--	No limit.	Clause 4.3	Reporting only
Maximum e.i.r.p.	15.407(a)(8)	< 24dBm over the frequency band of Operation, e.i.r.p.	Clause 4.4	PASS
26dB Emission Bandwidth	15.407(a)(10)	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.	Clause 4.5	PASS
99% Occupied Bandwidth	2.1049	No limit.	Clause 4.6	Reporting only
Maximum Power Spectral Density	15.407(a)(8)	< -1dBm/MHz e.i.r.p.	Clause 4.7	PASS
In-Band Emissions	15.407(b)(6)	EUT must meet the limits detailed in 15.407(b)(6)	Clause 4.8	PASS
Contention Based Protocol	15.407(d)(6)	EUT must detect AWGN signal with 90% (or better) certainty	Clause 4.9	PASS
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	15.407(b)(5)	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band	Clause 4.10	PASS
Unwanted Emissions in the Restricted Bands (Radiated)	15.205, 15.209	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Clause 4.11	PASS



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Report No.: SEWM2207000107RG07
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3 General Information

3.1 Details of Client

Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Lves Cheng, Tizzy Song

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Portable Tablet Computer	
Model No.:	TB350FU	
Trade Mark:	Lenovo	
Hardware Version:	TB350FU	
Software Version:	TB350FU_RF01_220729	
IEEE 802.11 WLAN Mode Supported:	<input checked="" type="checkbox"/> 802.11ax (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax (40 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax (80 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax (160 MHz channel bandwidth)	
Operation Frequency:	IEEE 802.11 ax(HE20/40/80/160): 5925 MHz ~ 6425 MHz IEEE 802.11 ax(HE20/40/80/160): 6425 MHz ~ 6525 MHz IEEE 802.11 ax(HE20/40/80/160): 6525 MHz ~ 6875 MHz IEEE 802.11 ax(HE20/40/80/160): 6875 MHz ~ 7125 MHz	
Type of Modulation:	OFDM	
FCC Classification:	6GHz Low Power Indoor Client (6XD)	
Antenna Type:	PIFA Antenna	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11ax
	<input type="checkbox"/> MIMO	CDD: 802.11ax: Tx & Rx
		STBC: 802.11ax: Tx & Rx
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client	
	UNII-5:-0.76dBi(Ant4)	
	UNII-6:-1.01dBi(Ant4)	
	UNII-7:-0.65dBi(Ant4)	
RF Cable:	2.0dB	
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Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre, 1 near low end

For UNII-5:

Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	The Lowest channel	5955
	The Middle channel	6175
	The Highest channel	6415
IEEE 802.11ax 40MHz	The Lowest channel	5965
	The Middle channel	6165
	The Highest channel	6405
IEEE 802.11ax 80MHz	The Lowest channel	5985
	The Highest channel	6145
IEEE 802.11ax160MHz	The Lowest channel	6025
	The Middle channel	6185
	The Highest channel	6345

For UNII-6:

Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	The Lowest channel	6435
	The Middle channel	6475
	The Highest channel	6515
IEEE 802.11ax 40MHz	The Lowest channel	6445
	The Middle channel	6485
	The Highest channel	6525
IEEE 802.11ax 80MHz	The Lowest channel	6385
	The Highest channel	6465
IEEE 802.11ax160MHz	The Middle channel	6505



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For UNII-7:		
Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	The Lowest channel	6535
	The Middle channel	6695
	The Highest channel	6855
IEEE 802.11ax 40MHz	The Lowest channel	6565
	The Middle channel	6685
	The Highest channel	6845
IEEE 802.11ax 80MHz	Straddle	6545
	The Lowest channel	6625
	The Middle channel	6705
	The Highest channel	6785
	Straddle	6865
IEEE 802.11ax160MHz	The Lowest channel	6665
	The Highest channel	6825

For UNII-8:		
Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	The Lowest channel	6895
	The Highest channel	7115
IEEE 802.11n/ax 40MHz	Straddle	6885
	The Lowest channel	6925
	The Middle channel	6965
	The Highest channel	7085
IEEE 802.11ax 80MHz	The Lowest channel	6945
	The Highest channel	7025
IEEE 802.11ax160MHz	The Middle channel	6985



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44~46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.86
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.



4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
<p>The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is UNII-5:-0.76dBi(Ant4) UNII-6:-1.01dBi(Ant4) UNII-7:-0.65dBi(Ant4) UNII-8:-0.85dBi(Ant4) (Provided by client)*.</p> <p><i>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</i></p> <p><i>Remark:</i></p> <ol style="list-style-type: none"> As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information. This RF cable is used for RF conducted testing has been calibrated, which are already included in system losses. 	



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 		



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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p>
<p>Final Test Mode:</p>	<p>Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>



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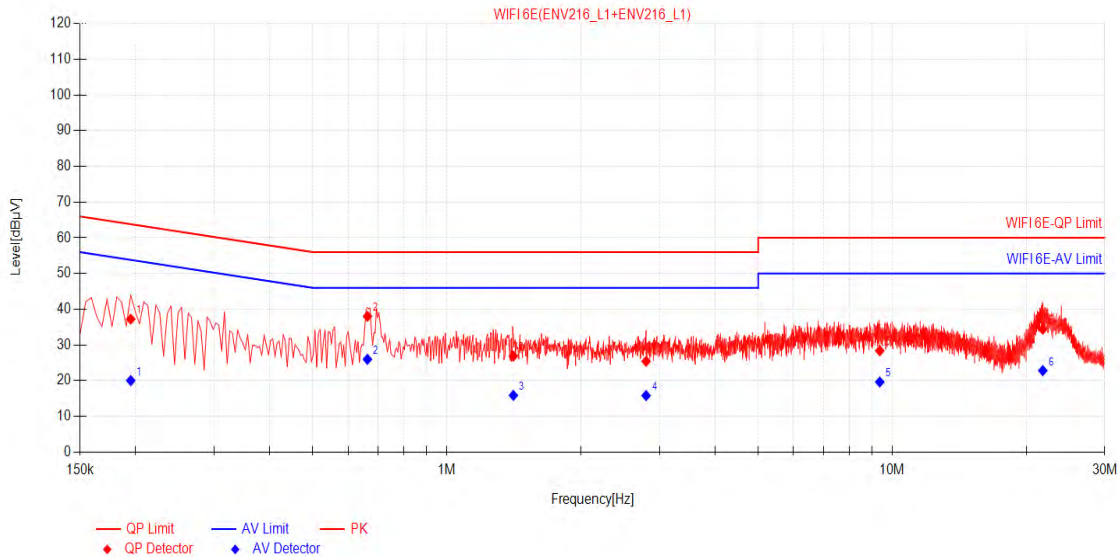
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

For Sample #1:

Phase:	Line
--------	------



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1950	10.81	26.42	37.23	63.82	26.59	9.22	20.03	53.82	33.79	PASS
2	0.6630	10.56	27.47	38.03	56.00	17.97	15.42	25.98	46.00	20.02	PASS
3	1.4100	10.79	16.10	26.89	56.00	29.11	5.09	15.88	46.00	30.12	PASS
4	2.8005	10.67	14.76	25.43	56.00	30.57	5.16	15.83	46.00	30.17	PASS
5	9.3750	10.65	17.74	28.39	60.00	31.61	8.98	19.63	50.00	30.37	PASS
6	21.7725	10.36	24.05	34.41	60.00	25.59	12.46	22.82	50.00	27.18	PASS

Remark:

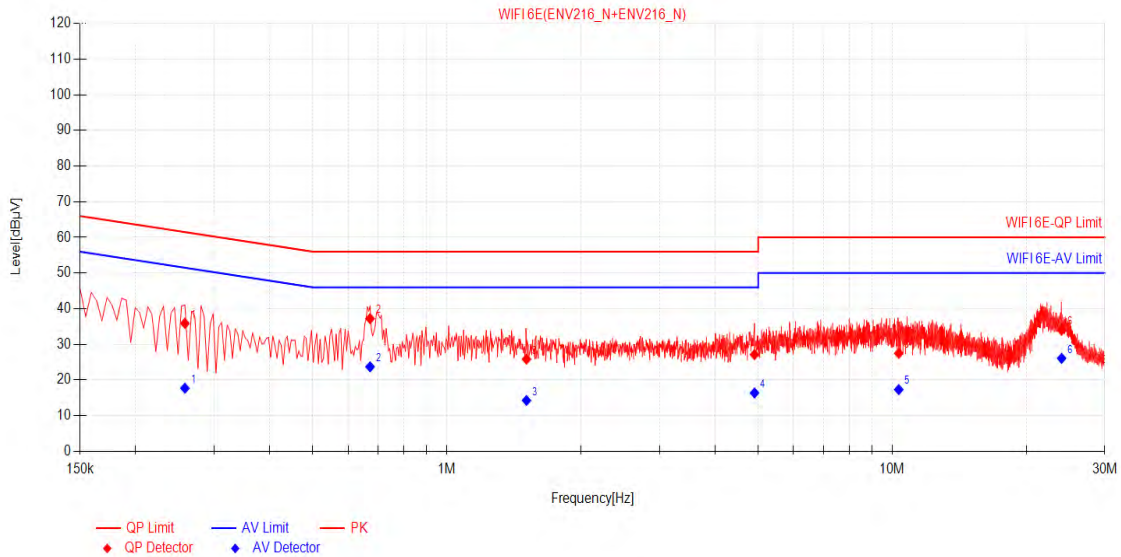
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2580	10.72	25.17	35.89	61.50	25.61	6.98	17.70	51.50	33.80	PASS
2	0.6720	10.78	26.43	37.21	56.00	18.79	12.94	23.72	46.00	22.28	PASS
3	1.5090	10.78	15.06	25.84	56.00	30.16	3.48	14.26	46.00	31.74	PASS
4	4.9065	10.64	16.49	27.13	56.00	28.87	5.72	16.36	46.00	29.64	PASS
5	10.3425	10.66	16.82	27.48	60.00	32.52	6.64	17.30	50.00	32.70	PASS
6	24.0045	10.51	23.45	33.96	60.00	26.04	15.57	26.08	50.00	23.92	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading [dBµV] + Factor (Lisn factor [dB] + cable loss [dB]).
3. Margin = Limit [dBµV] – Value [dBµV]



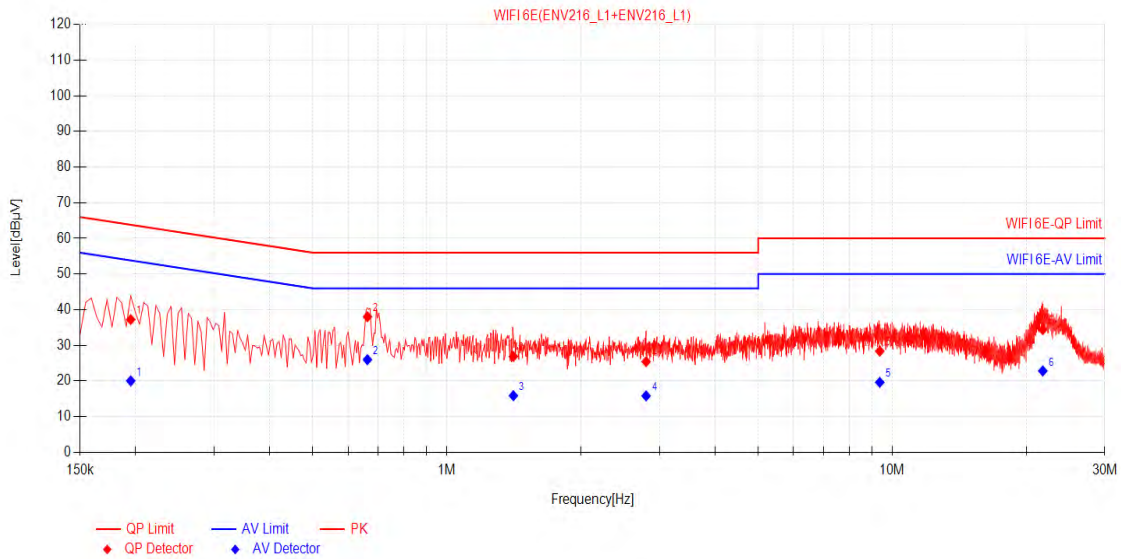
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For Sample #2:

Phase:	Line
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Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1950	10.81	26.42	37.23	63.82	26.59	9.22	20.03	53.82	33.79	PASS
2	0.6630	10.56	27.47	38.03	56.00	17.97	15.42	25.98	46.00	20.02	PASS
3	1.4100	10.79	16.10	26.89	56.00	29.11	5.09	15.88	46.00	30.12	PASS
4	2.8005	10.67	14.76	25.43	56.00	30.57	5.16	15.83	46.00	30.17	PASS
5	9.3750	10.65	17.74	28.39	60.00	31.61	8.98	19.63	50.00	30.37	PASS
6	21.7725	10.36	24.05	34.41	60.00	25.59	12.46	22.82	50.00	27.18	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]

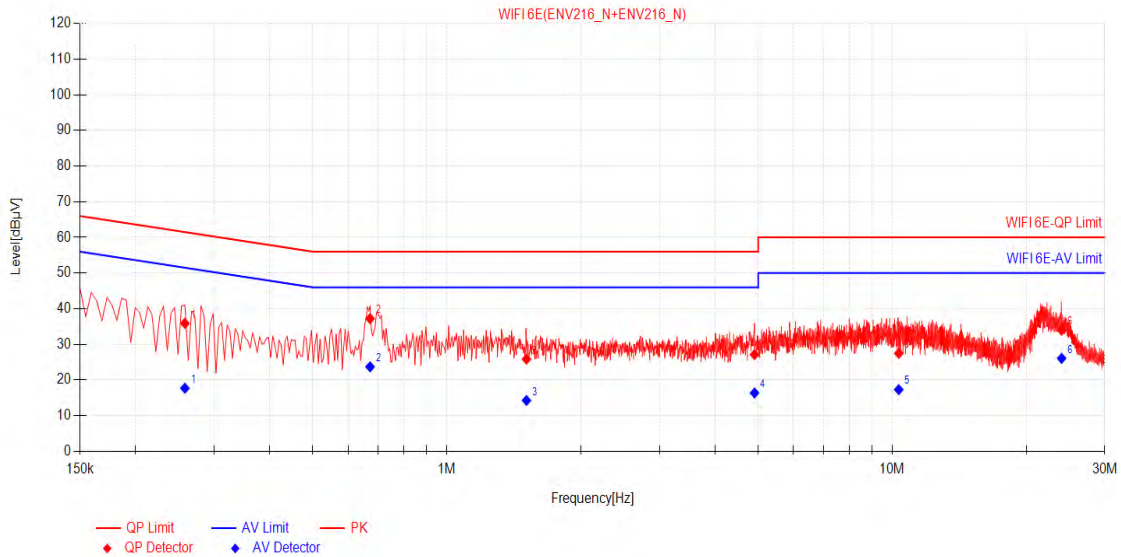


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Phase:	Neutral
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Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2580	10.72	25.17	35.89	61.50	25.61	6.98	17.70	51.50	33.80	PASS
2	0.6720	10.78	26.43	37.21	56.00	18.79	12.94	23.72	46.00	22.28	PASS
3	1.5090	10.78	15.06	25.84	56.00	30.16	3.48	14.26	46.00	31.74	PASS
4	4.9065	10.64	16.49	27.13	56.00	28.87	5.72	16.36	46.00	29.64	PASS
5	10.3425	10.66	16.82	27.48	60.00	32.52	6.64	17.30	50.00	32.70	PASS
6	24.0045	10.51	23.45	33.96	60.00	26.04	15.57	26.08	50.00	23.92	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]



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Rev.: 01
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4.3 Duty Cycle

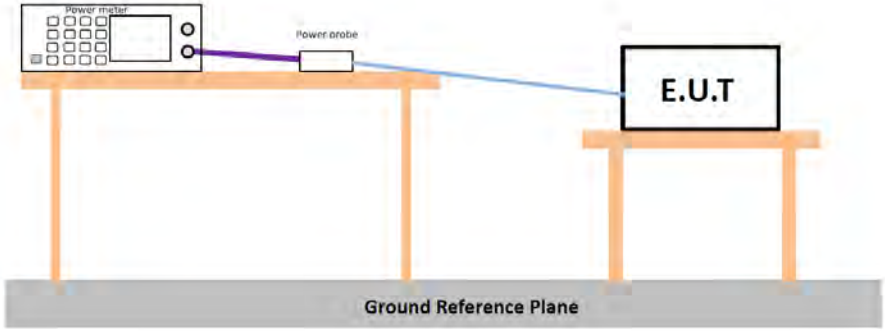
The detailed test data see: **Appendix**



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4.4 Maximum e.i.r.p.

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
Test Setup:	 <p>* Test with power meter (Detector function: Average)</p>
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the MCS0 of rate is the worst case of 802.11ax(HE20). MCS0 of rate is the worst case of 802.11ax(HE40). MCS0 of rate is the worst case of 802.11ax(HE80). MCS0 of rate is the worst case of 802.11ax(HE160). Only the worst case is recorded in the report.
Limit:	For client devices operating under the control of an indoor access point in the 5.925-7.125GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.
Test Results:	Pass
The detailed test data see: Appendix	



4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the MCS0 of rate is the worst case of 802.11ax(HE20). MCS0 of rate is the worst case of 802.11ax(HE40). MCS0 of rate is the worst case of 802.11ax(HE80). MCS0 of rate is the worst case of 802.11ax(HE160). Only the worst case is recorded in the report.
Limit:	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.
Test Results:	Pass
The detailed test data see: Appendix	



4.6 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013 Section 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the MCS0 of rate is the worst case of 802.11ax(HE20). MCS0 of rate is the worst case of 802.11ax(HE40). MCS0 of rate is the worst case of 802.11ax(HE80). MCS0 of rate is the worst case of 802.11ax(HE160). Only the worst case is recorded in the report.
Limit:	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.
Test Results:	Pass
The detailed test data see: Appendix	



4.7 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013 Section 11.10.2 KDB 789033 D02 v02r01, Section F.
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the MCS0 of rate is the worst case of 802.11ax(HE20). MCS0 of rate is the worst case of 802.11ax(HE40). MCS0 of rate is the worst case of 802.11ax(HE80). MCS0 of rate is the worst case of 802.11ax(HE160). Only the worst case is recorded in the report.
Limit:	For client devices operating under the control of an indoor access point in the 5.925-7.125GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band.
Test Results:	Pass
The detailed test data see: Appendix	



4.8 In-Band Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)(6)
Test Method:	KDB 987594 D02 U-NII 6GHz EMC Measurement v01
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the MCS0 of rate is the worst case of 802.11ax(HE20). MCS0 of rate is the worst case of 802.11ax(HE40). MCS0 of rate is the worst case of 802.11ax(HE80). MCS0 of rate is the worst case of 802.11ax(HE160). Only the worst case is recorded in the report.
Limit:	For transmitters operating within the 5.925-7.125 GHz bands: 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.
Test Results:	Pass
The detailed test data see: Appendix	



4.9 Contention Based Protocol

Test Requirement:	47 CFR Part 15 Section 15.407(d)
Test Method:	ANSI C63.10: 2013 KDB 987594 D02 U-NII 6GHz EMC Measurement v01
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Test Procedure:	<ol style="list-style-type: none"> 1) Configure the EUT to transmit with a constant duty cycle. 2) Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth. 3) Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver. 4) Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two. 5) Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10MHz AWGN signal relative to the EUT's channel bandwidth and center frequency. 6) Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2. 7) Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1. 8) Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting. 9) (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty. 10) Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.



Limit:	<p>Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.</p>
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

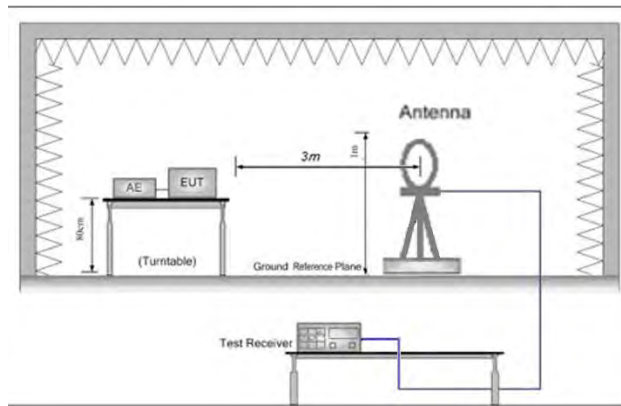


Figure 1. 9kHz to 30MHz

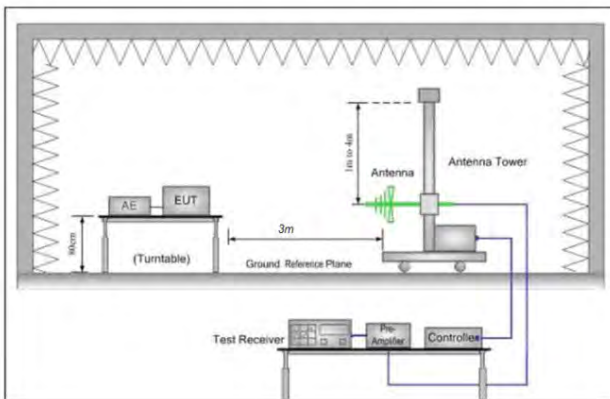


Figure 1. 30MHz to 1GHz

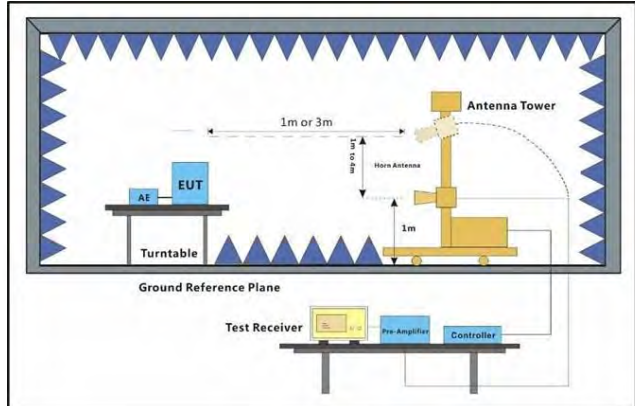


Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



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	<p>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.</p>
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq [3 \cdot \text{RBW}]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. <p>Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</p>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the MCS0 of rate is the worst case of 802.11ax(HE20). MCS0 of rate is the worst case of 802.11ax(HE40). MCS0 of rate is the worst case of 802.11ax(HE80). MCS0 of rate is the worst case of 802.11ax(HE160). Only the worst case is recorded in the report.</p>



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Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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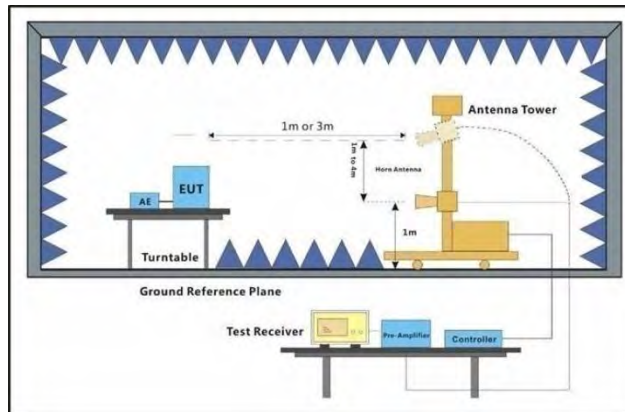
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4.11 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:



Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- Test the EUT in the outermost channels.
- The radiation measurements are performed in X, Y, Z axis positioning for



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	Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. <p>Value = Reading + Factor(Antenna Factor + Cable loss).</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>MCS0 of rate is the worst case of 802.11ax(HE20).</p> <p>MCS0 of rate is the worst case of 802.11ax(HE40).</p> <p>MCS0 of rate is the worst case of 802.11ax(HE80).</p> <p>MCS0 of rate is the worst case of 802.11ax(HE160).</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2021/12/22	2022/12/21
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
Pulse power sensor	Anritsu	MA2411b	SUWI-01-32-01	2021/12/04	2022/12/03
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RSE V4.0.0.0	SUWI-02-09-06	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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**Emission Bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11ax20SISO	Ant4	5955	20.92	5944.48	5965.40	Reporting only
		6175	21.28	6164.28	6185.56	
		6415	21.44	6404.12	6425.56	
		6435	21.24	6424.12	6445.36	
		6475	21.68	6463.88	6485.56	
		6515	20.96	6504.36	6525.32	
		6535	21.28	6524.12	6545.40	
		6695	21.48	6684.08	6705.56	
		6855	21.44	6844.24	6865.68	
		6895	21.20	6884.20	6905.40	
		6995	21.44	6984.24	7005.68	
		7095	21.40	7084.28	7105.68	
11ax40SISO	Ant4	7115	21.28	7104.24	7125.52	Reporting only
		5965	39.92	5944.84	5984.76	
		6165	39.84	6145.00	6184.84	
		6405	39.76	6384.92	6424.68	
		6445	39.52	6425.08	6464.60	
		6485	39.84	6464.92	6504.76	
		6525	39.84	6504.92	6544.76	
		6565	39.68	6545.00	6584.68	
		6685	39.76	6665.00	6704.76	
		6845	39.68	6825.00	6864.68	
		6885	39.84	6864.84	6904.68	
		6925	39.84	6904.92	6944.76	
11ax80SISO	Ant4	6965	39.76	6944.92	6984.68	Reporting only
		7085	39.84	7064.92	7104.76	
		5985	81.12	5944.36	6025.48	
		6145	80.64	6104.52	6185.16	
		6385	80.80	6344.36	6425.16	
		6465	80.80	6424.36	6505.16	
		6545	80.80	6504.36	6585.16	
		6625	80.64	6584.52	6665.16	
		6705	80.80	6664.36	6745.16	
		6785	80.80	6744.52	6825.32	
		6865	80.64	6824.52	6905.16	
		11ax160SISO	Ant4	6945	80.80	
7025	80.80			6984.52	7065.32	
6025	162.56			5943.72	6106.28	
6185	162.88			6103.40	6266.28	
6345	162.56			6263.40	6425.96	
6505	162.56			6423.72	6586.28	
6665	162.56			6583.72	6746.28	
6825	162.24			6743.72	6905.96	
		6985	162.88	6903.40	7066.28	

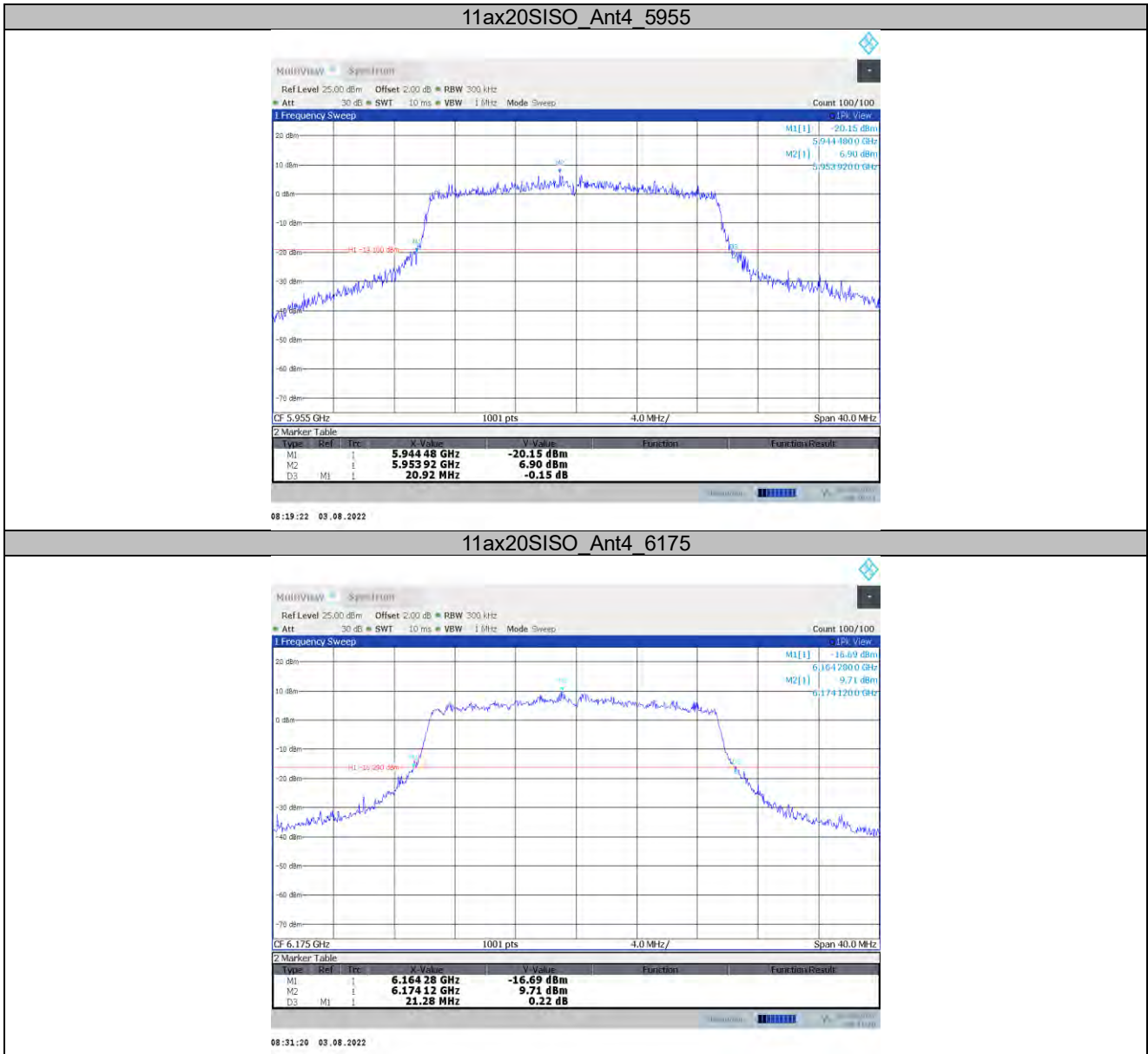


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Test Graphs



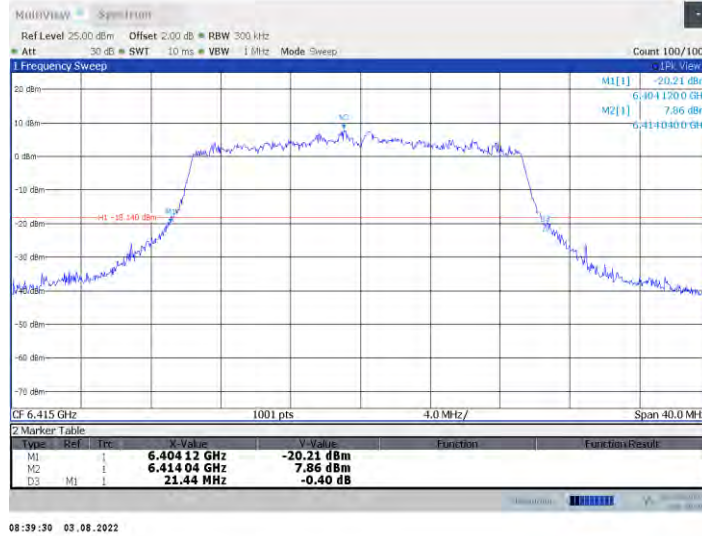
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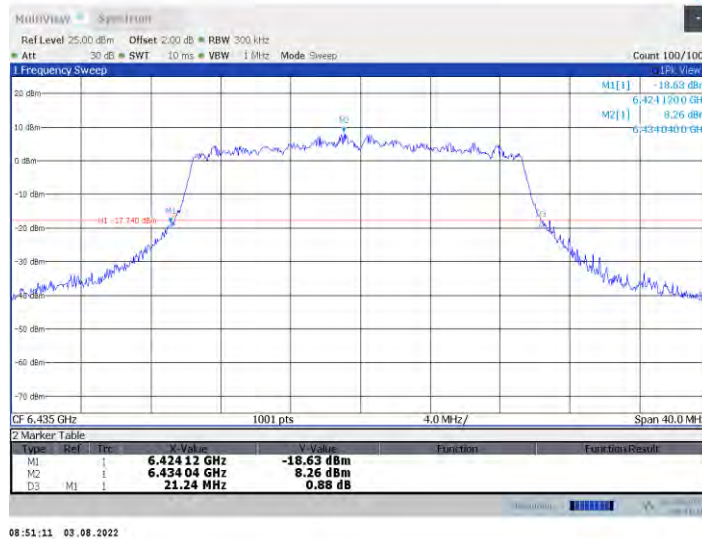
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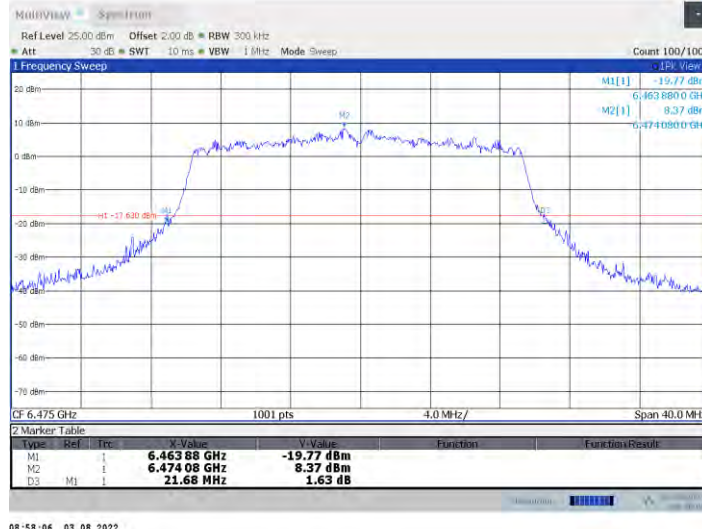
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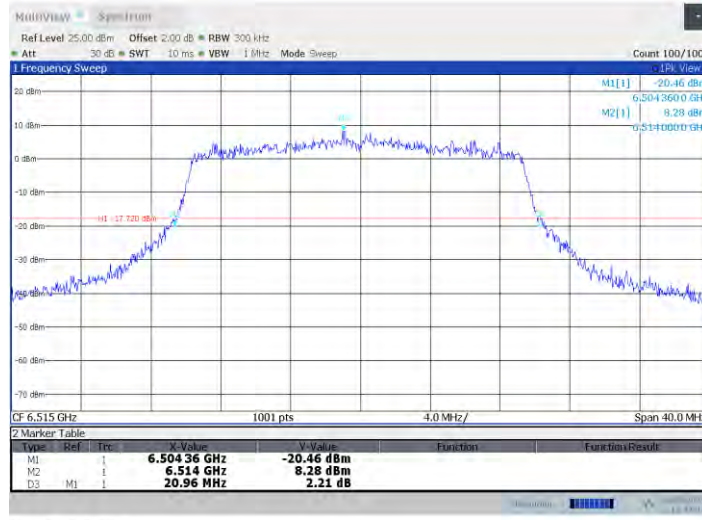
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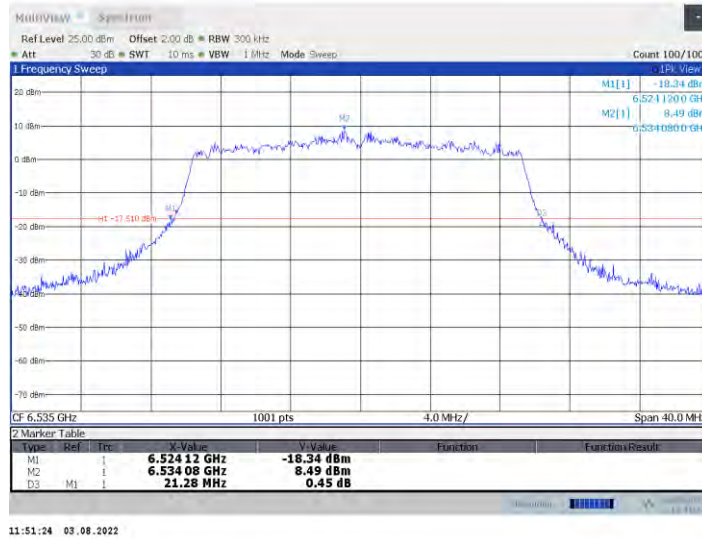
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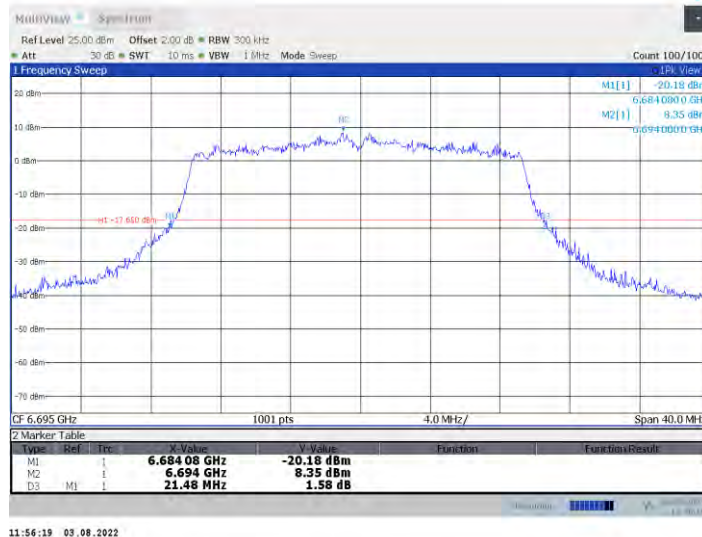
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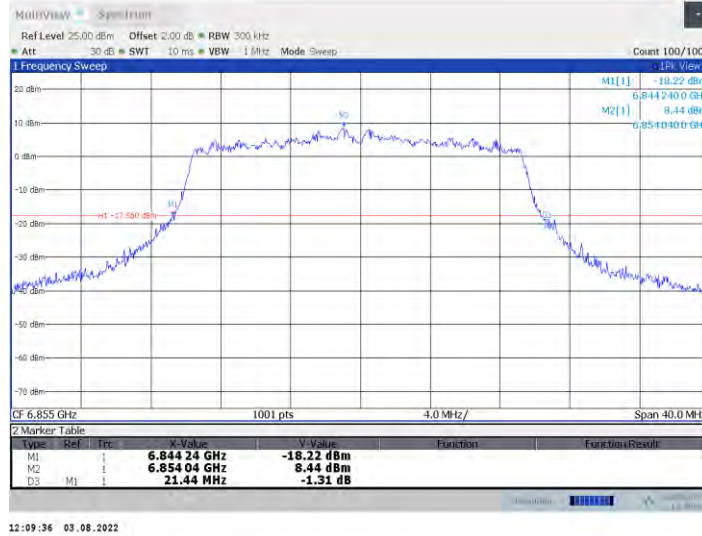
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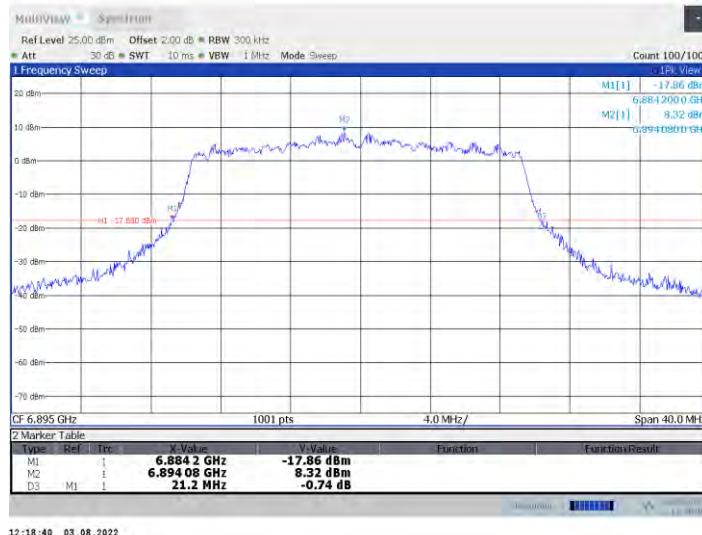
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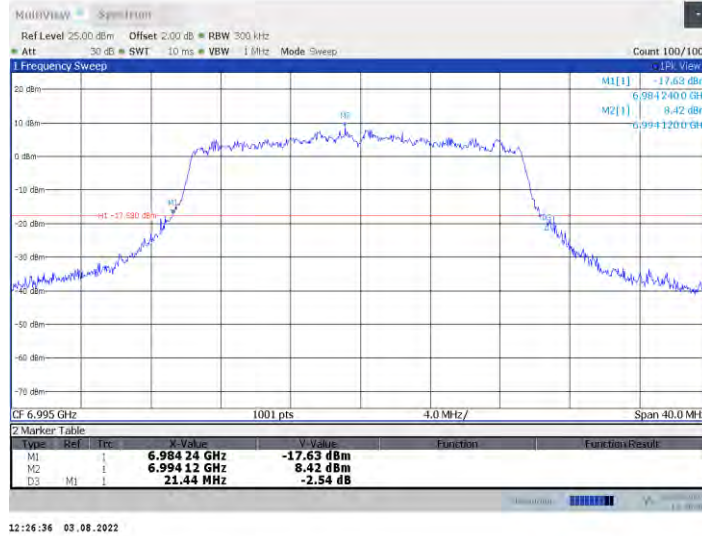
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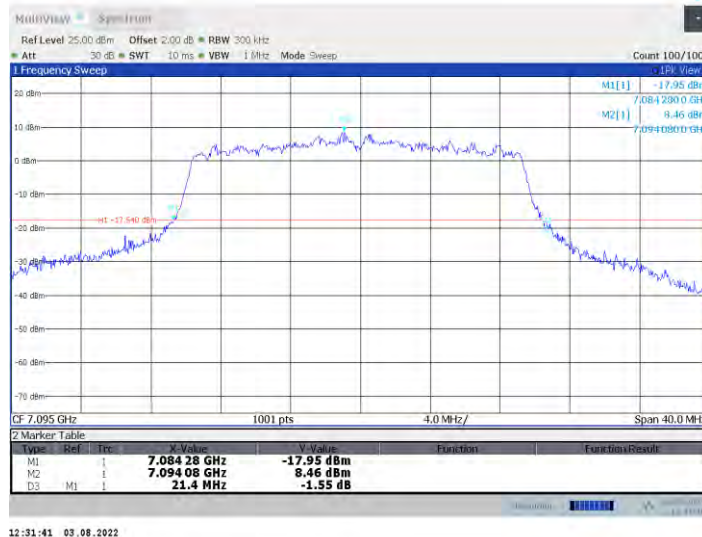
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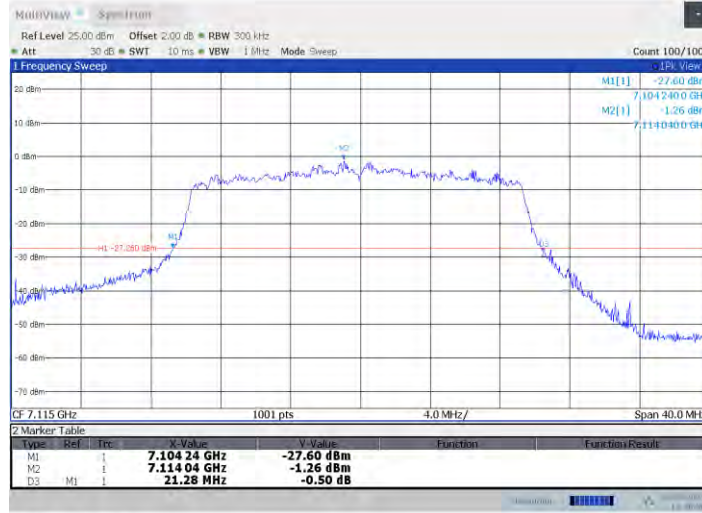
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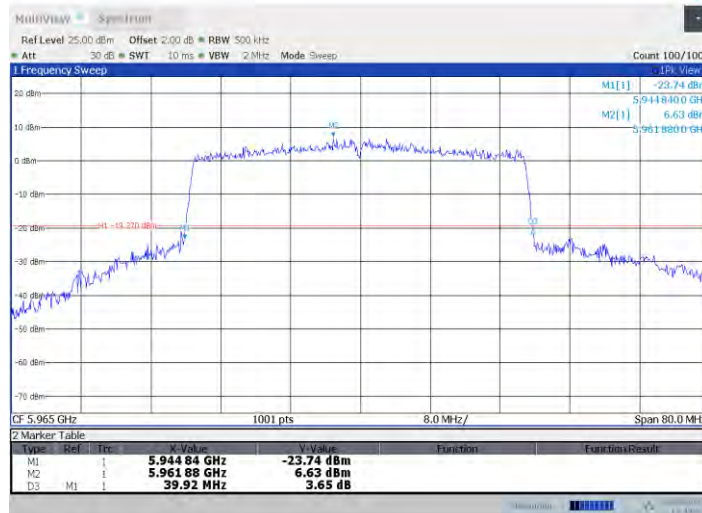
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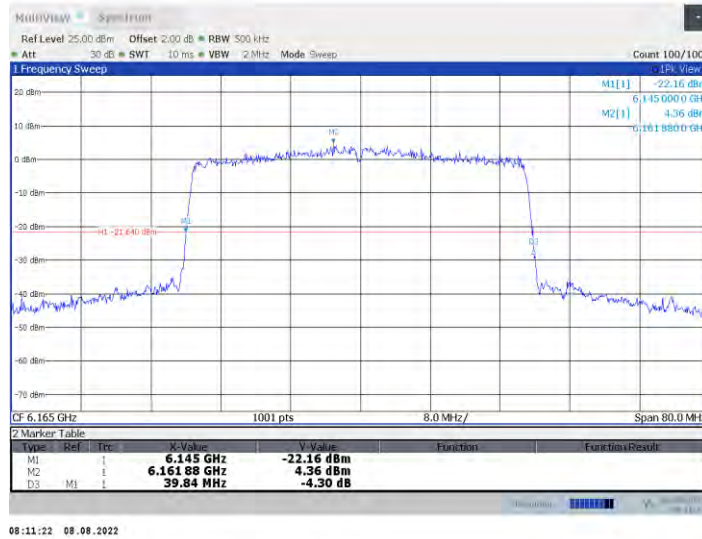


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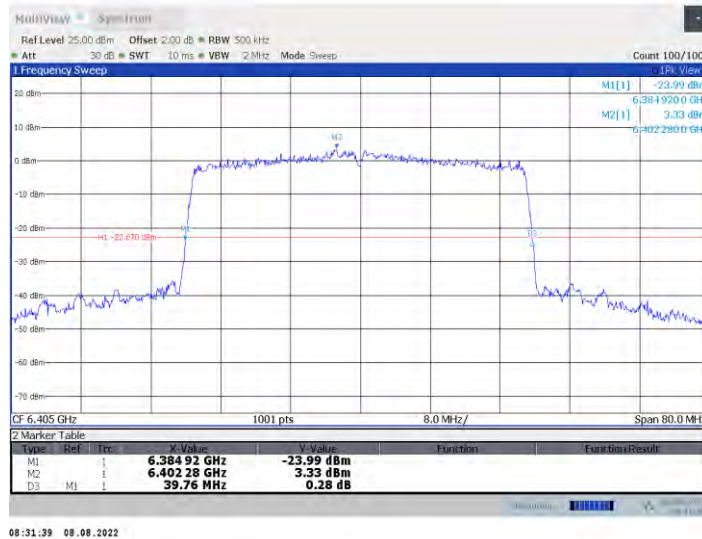
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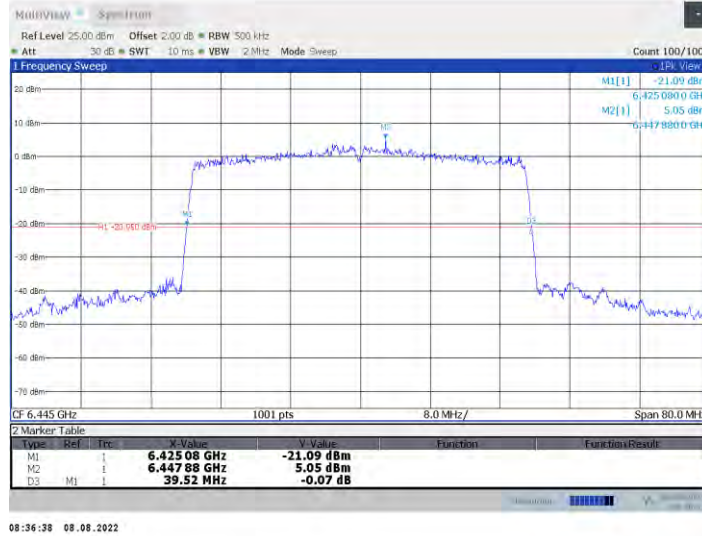


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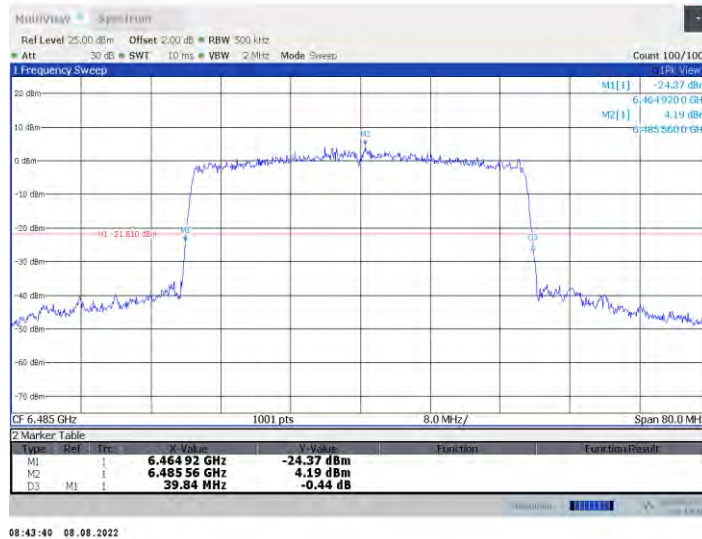
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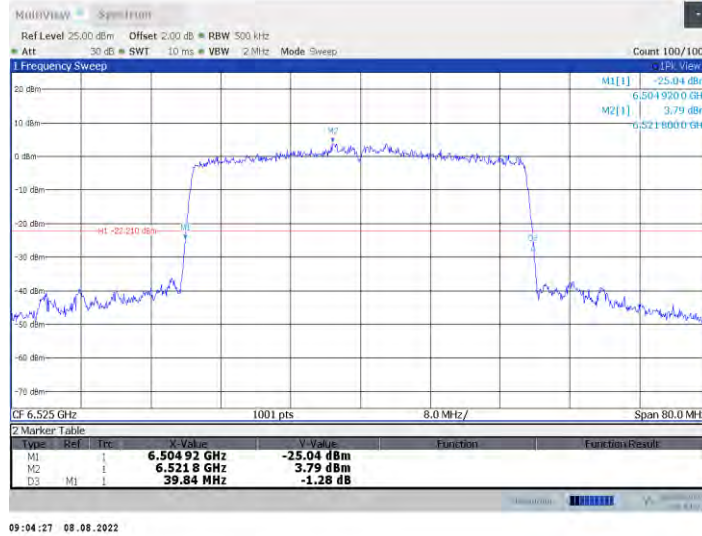
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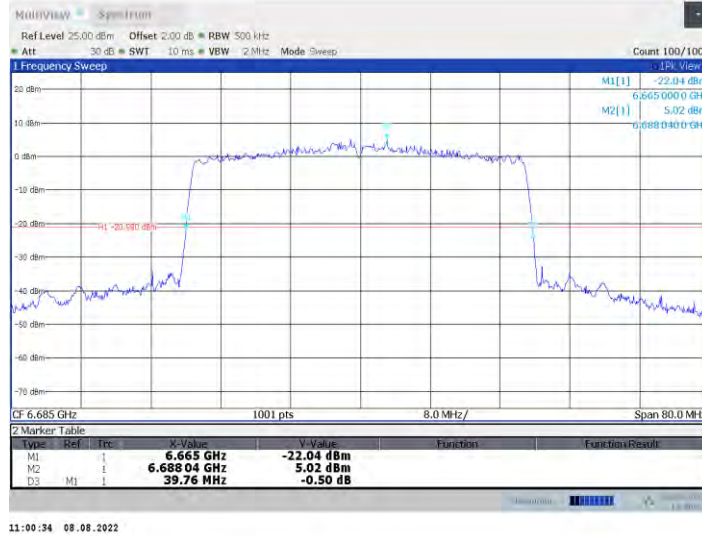
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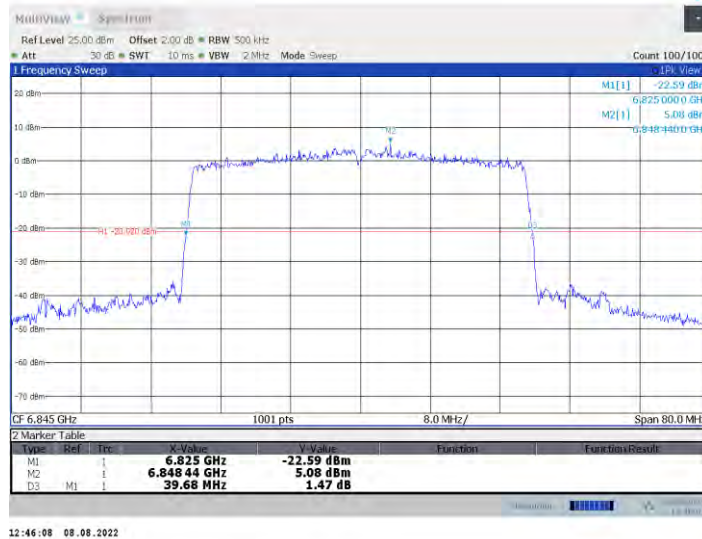
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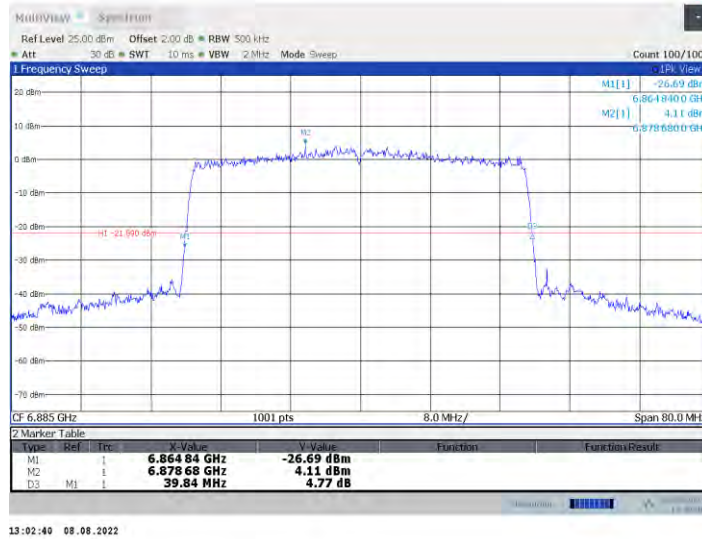
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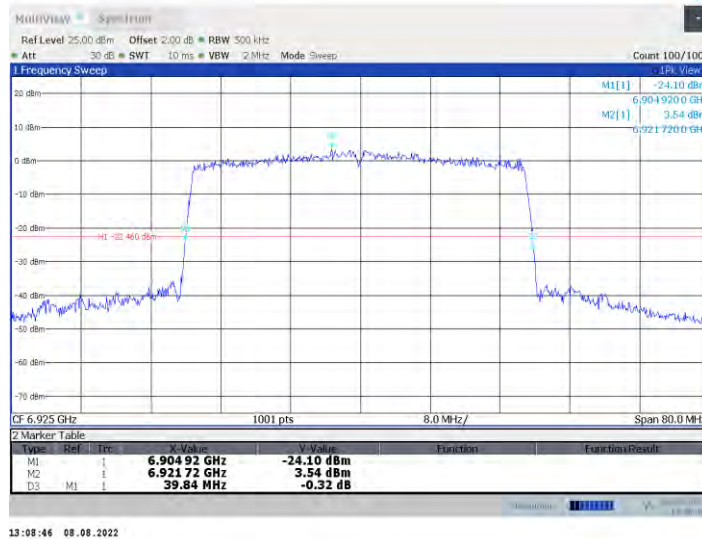
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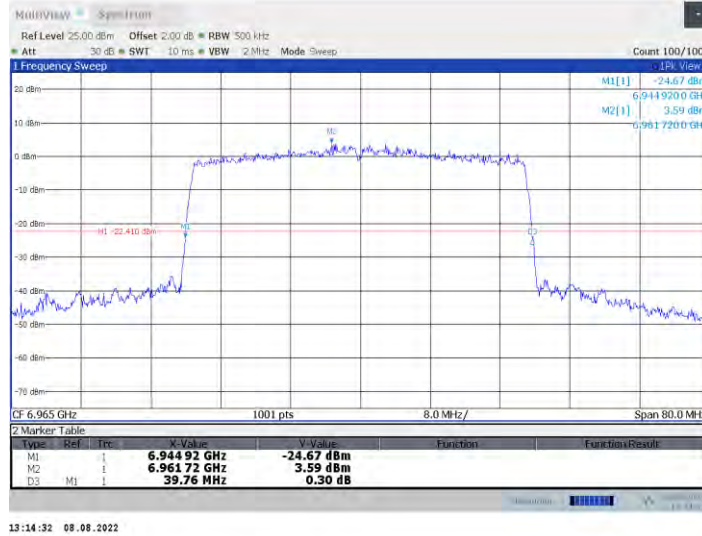
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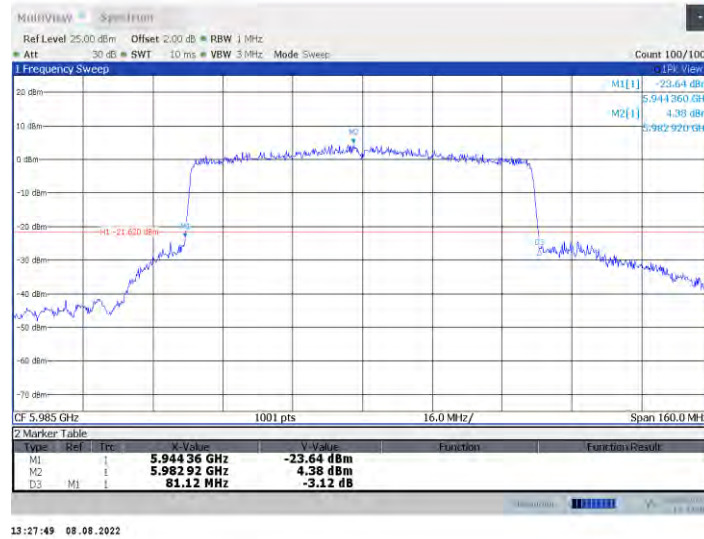


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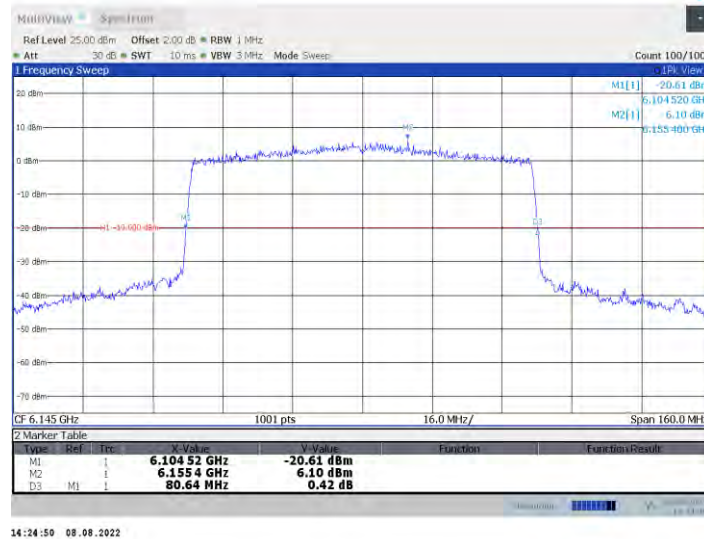
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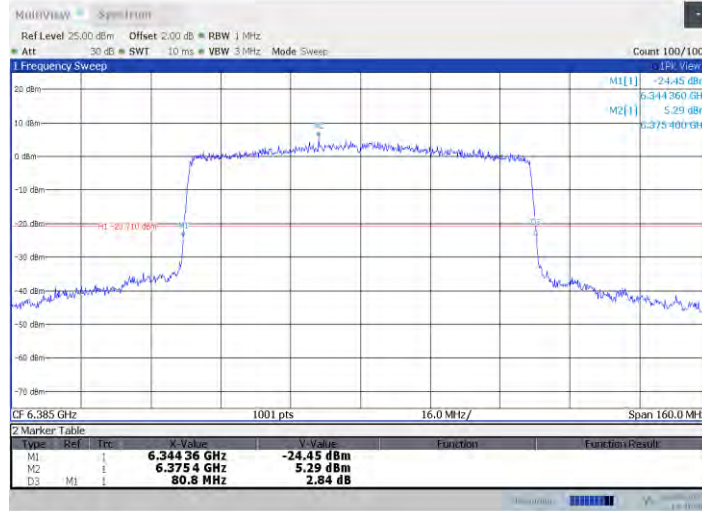


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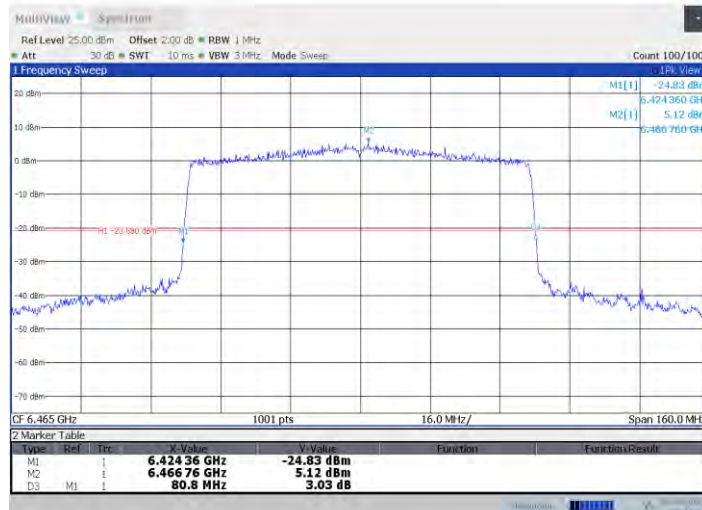
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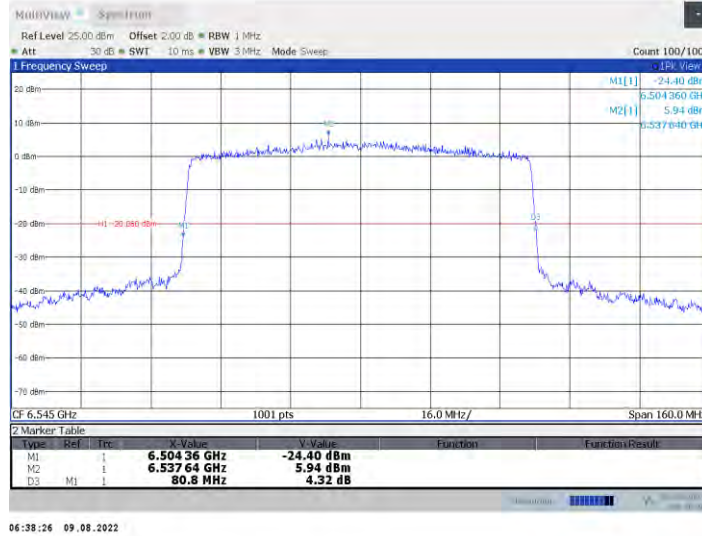
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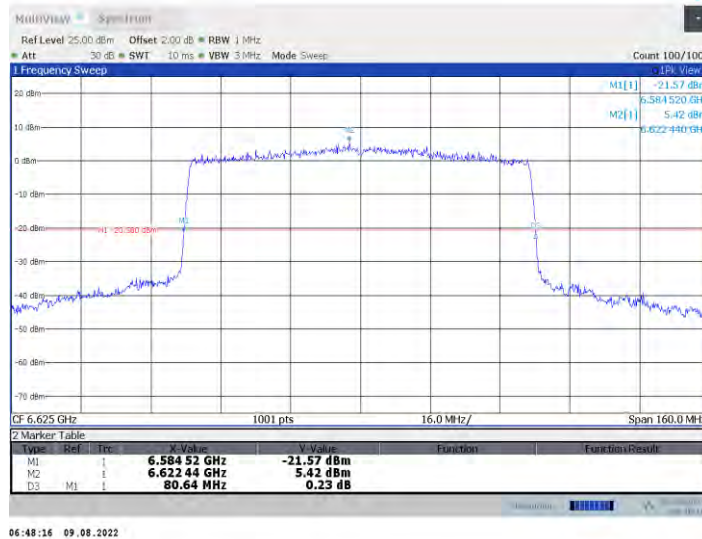
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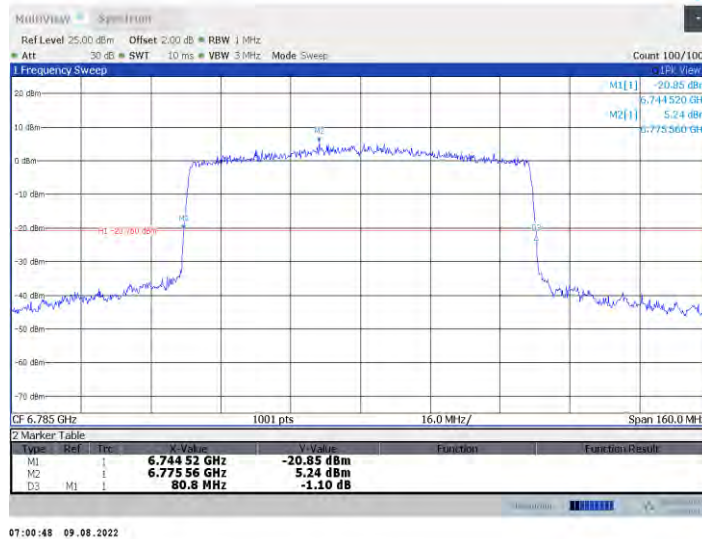
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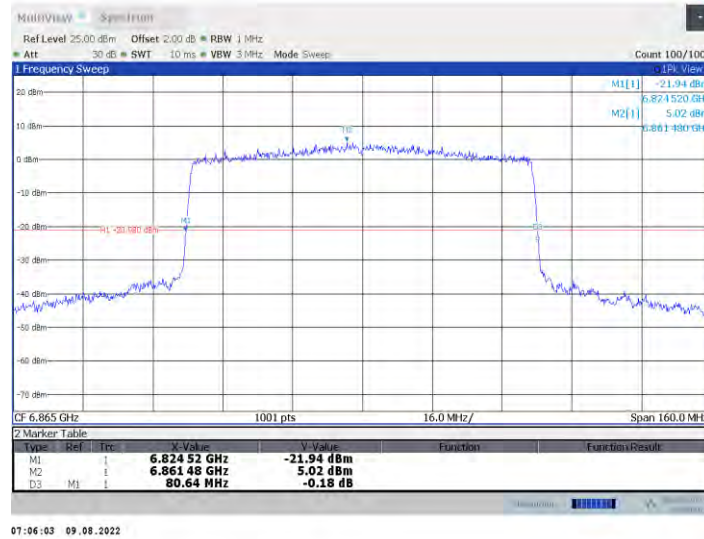
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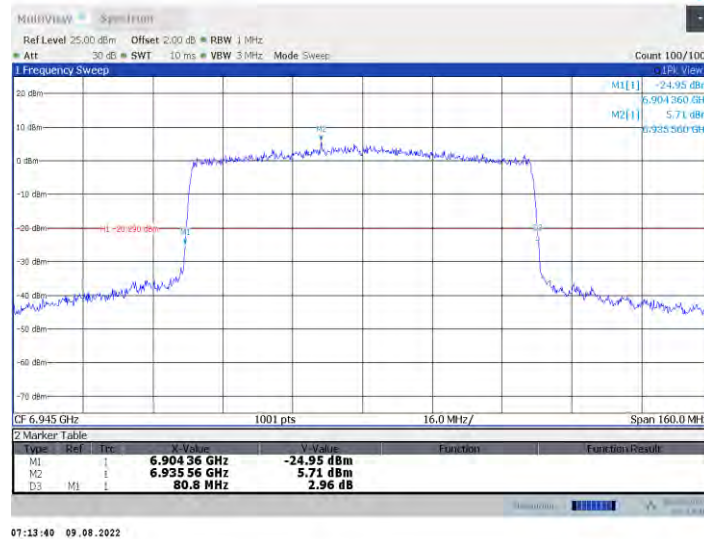
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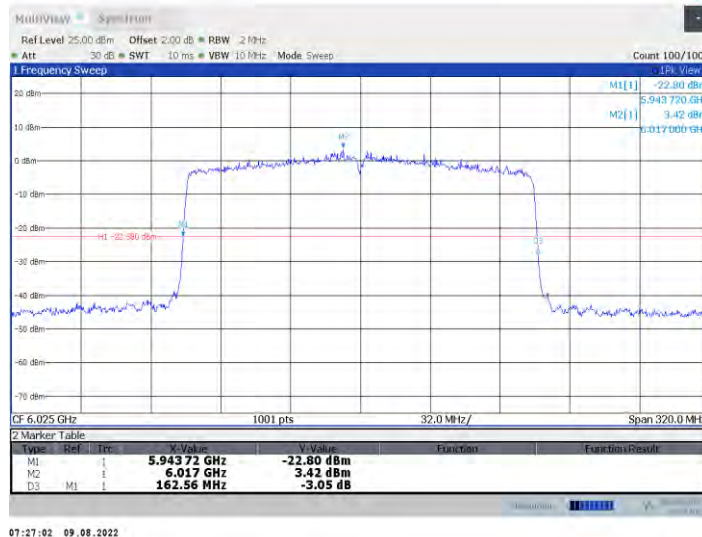
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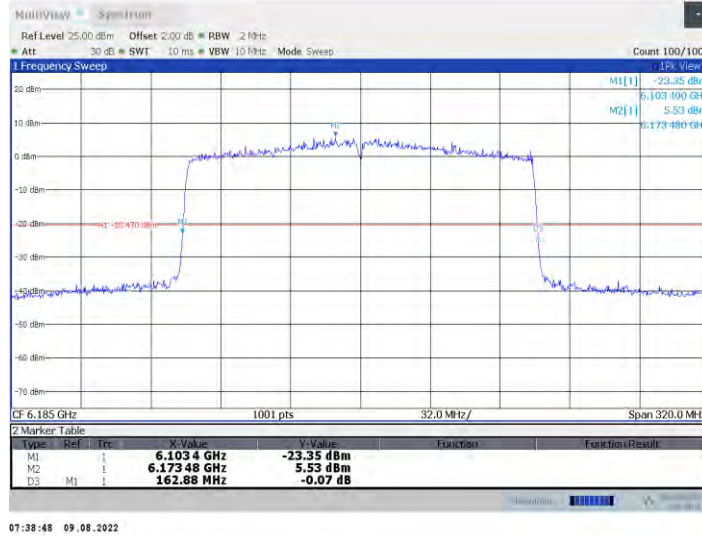
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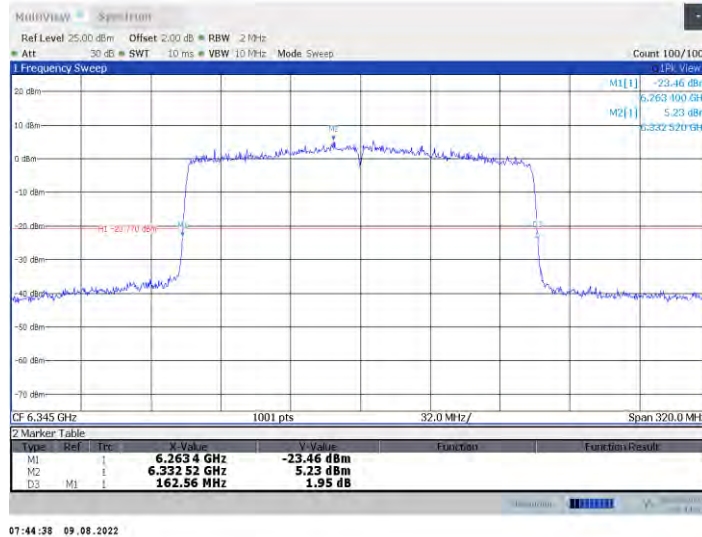
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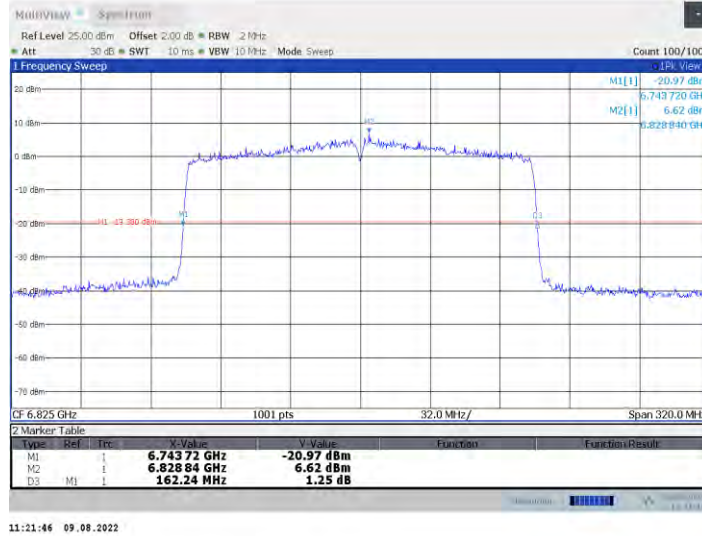
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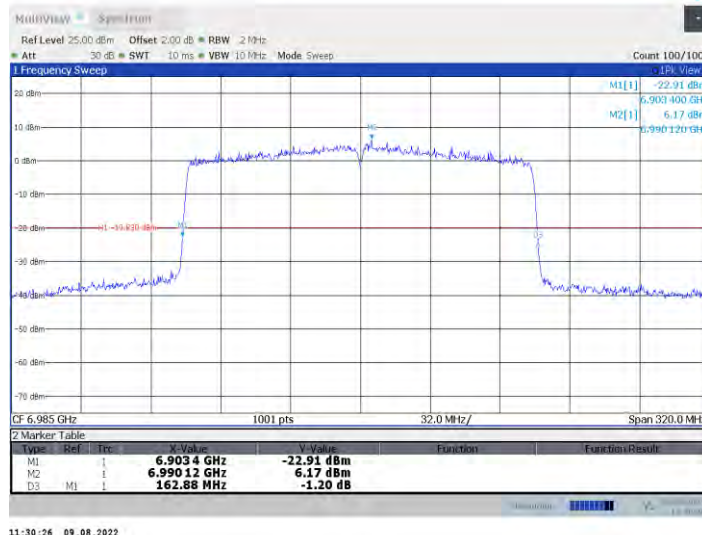
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**Occupied channel bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11ax20SISO	Ant4	5955	18.958	5945.369	5964.327	Reporting only
		6175	18.929	6165.372	6184.301	
		6415	18.948	6405.356	6424.304	
		6435	18.932	6425.359	6444.290	
		6475	18.951	6465.350	6484.301	
		6515	18.934	6505.357	6524.291	
		6535	18.943	6525.342	6544.285	
		6695	18.931	6685.351	6704.282	
		6855	18.923	6845.353	6864.275	
		6895	18.959	6885.328	6904.286	
		6995	18.942	6985.335	7004.277	
		7095	18.956	7085.322	7104.279	
11ax40SISO	Ant4	7115	18.959	7105.330	7124.289	Reporting only
		5965	37.744	5945.987	5983.730	
		6165	37.656	6146.017	6183.674	
		6405	37.659	6385.988	6423.647	
		6445	37.649	6426.011	6463.660	
		6485	37.628	6466.027	6503.655	
		6525	37.661	6505.988	6543.649	
		6565	37.664	6545.989	6583.653	
		6685	37.643	6665.986	6703.629	
		6845	37.702	6825.967	6863.669	
		6885	37.672	6865.987	6903.659	
		6925	37.74	6905.912	6943.652	
11ax80SISO	Ant4	6965	37.676	6945.978	6983.654	Reporting only
		7085	37.772	7065.932	7103.703	
		5985	77.189	5946.270	6023.459	
		6145	76.742	6106.473	6183.216	
		6385	77.031	6346.263	6423.294	
		6465	76.826	6426.440	6503.267	
		6545	77.061	6506.350	6583.411	
		6625	77.109	6586.276	6663.386	
		6705	76.984	6666.328	6743.313	
		6785	77.008	6746.273	6823.281	
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11ax160SISO	Ant4	7025	77.43	6986.075	7063.505	Reporting only
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		6185	155.072	6107.339	6262.411	
		6345	155.119	6266.989	6422.108	
		6505	155.242	6427.269	6582.512	
		6665	155.09	6587.157	6742.247	
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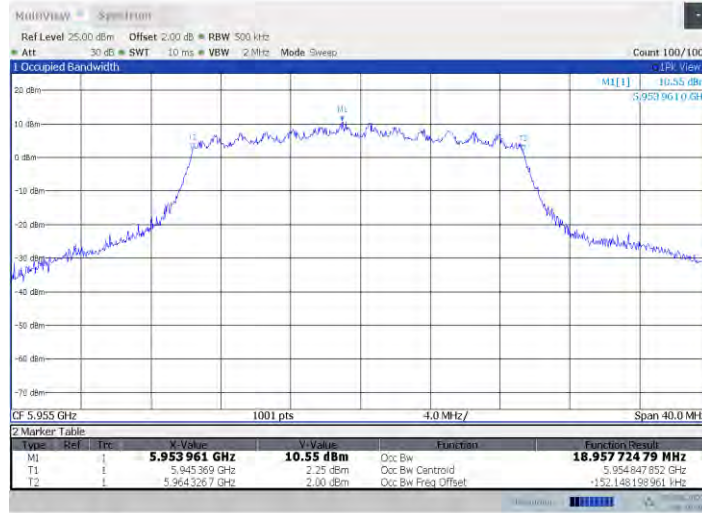
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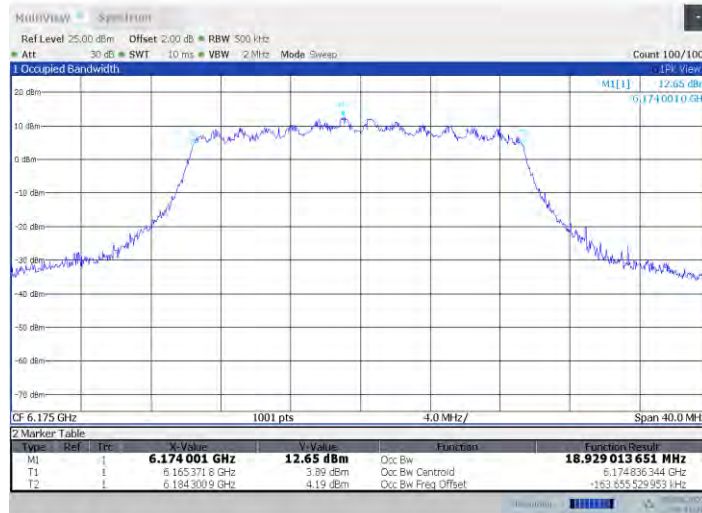
Test Graphs

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11ax20SISO Ant4 6175



08:31:27 03.08.2022



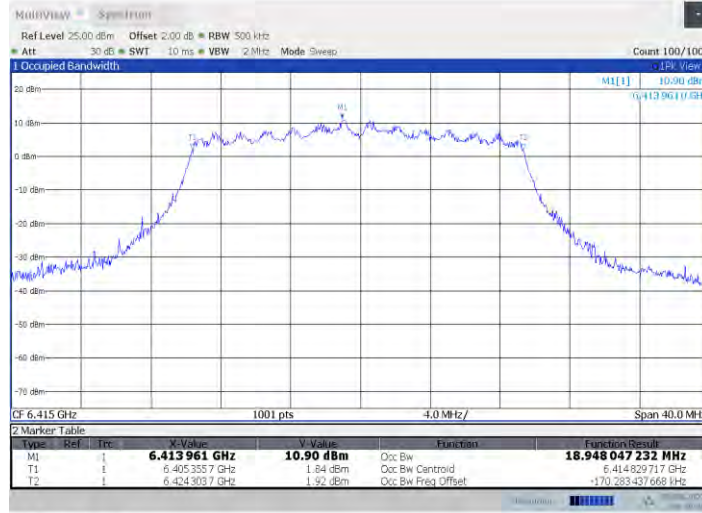
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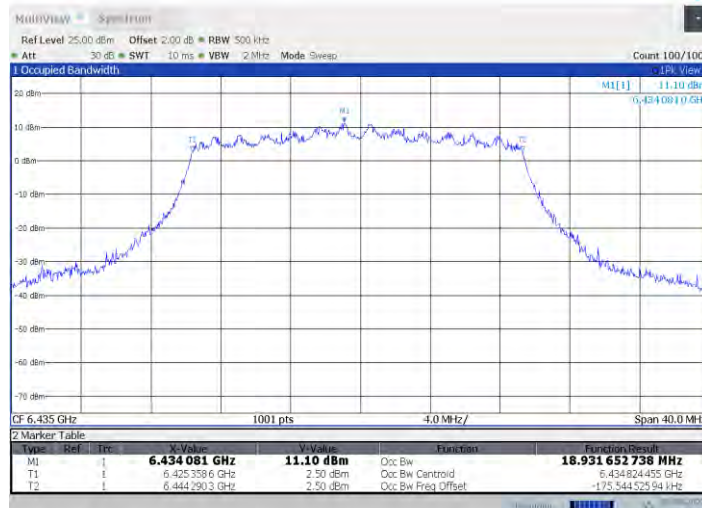
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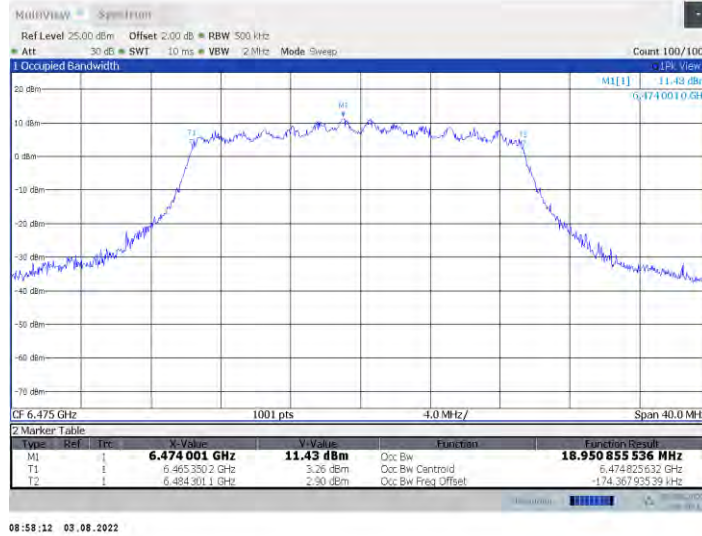
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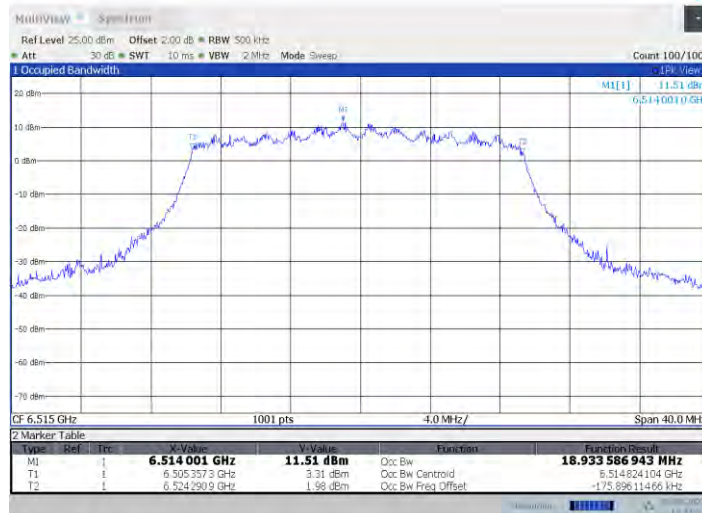
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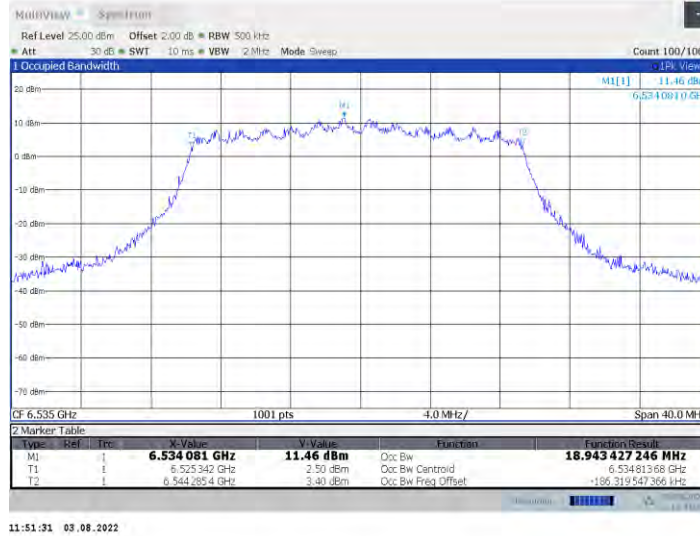
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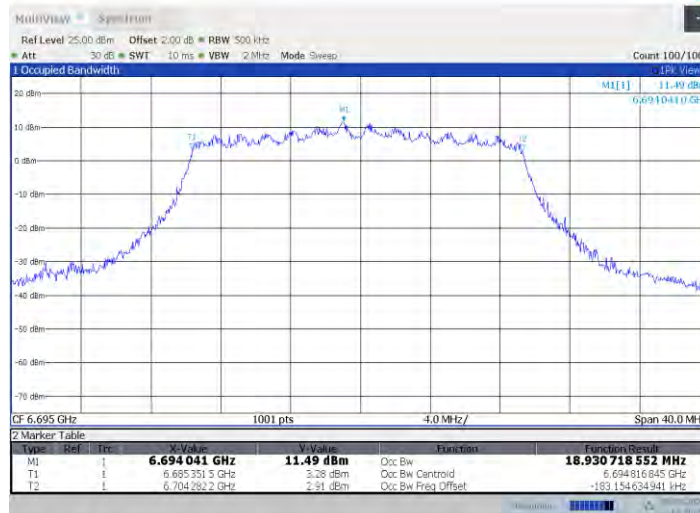
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11:56:25 03.08.2022



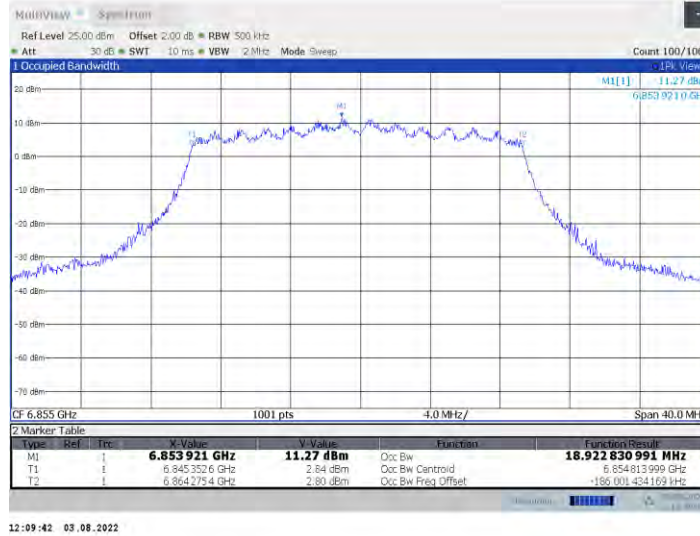
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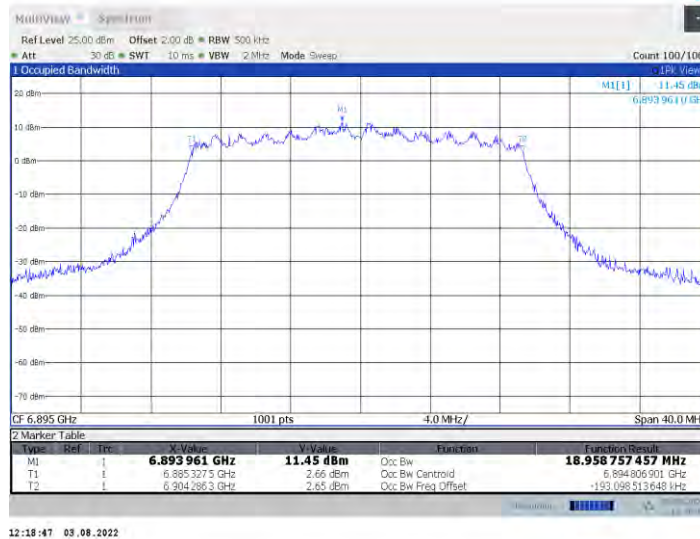
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11ax20SISO Ant4 6895



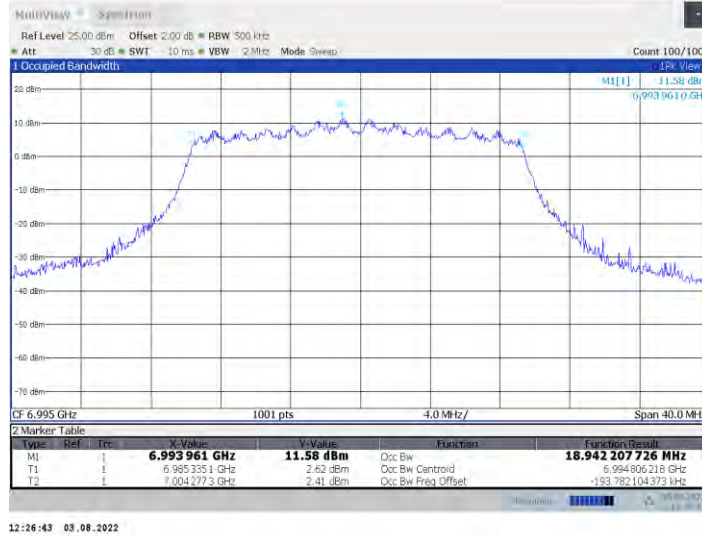
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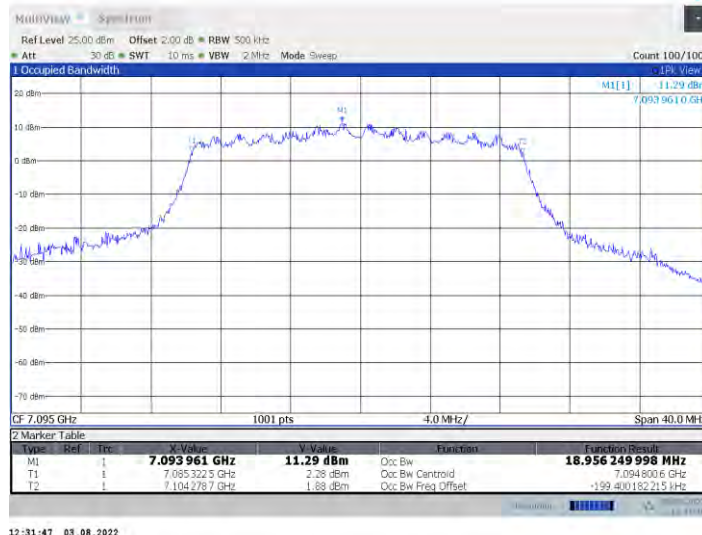
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12:31:47 03.08.2022



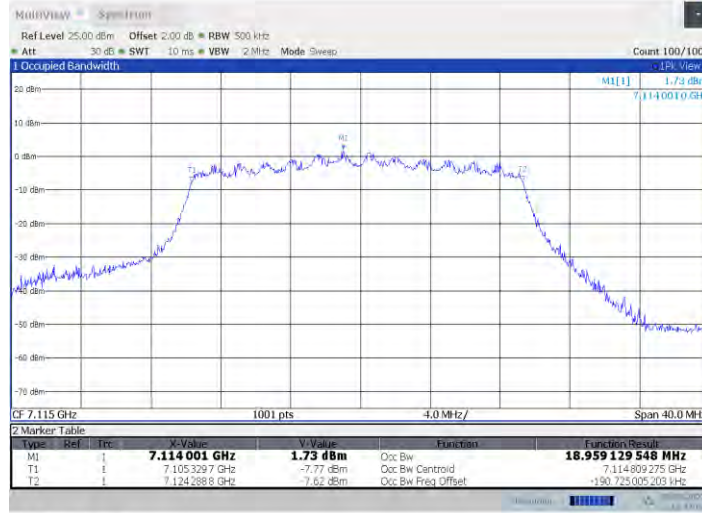
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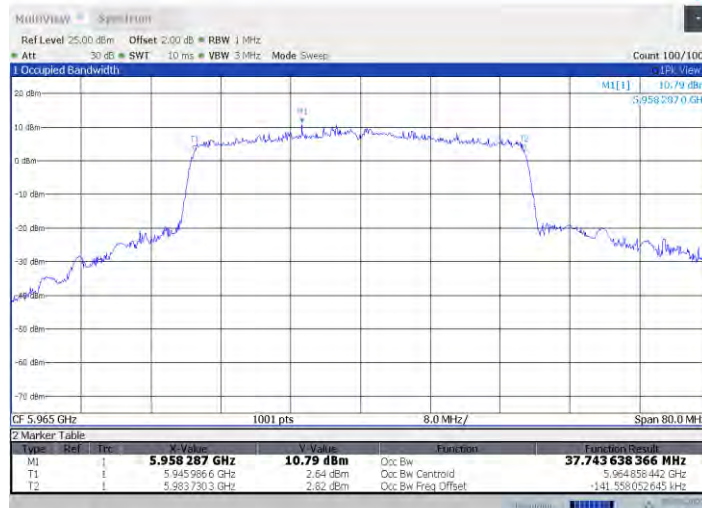
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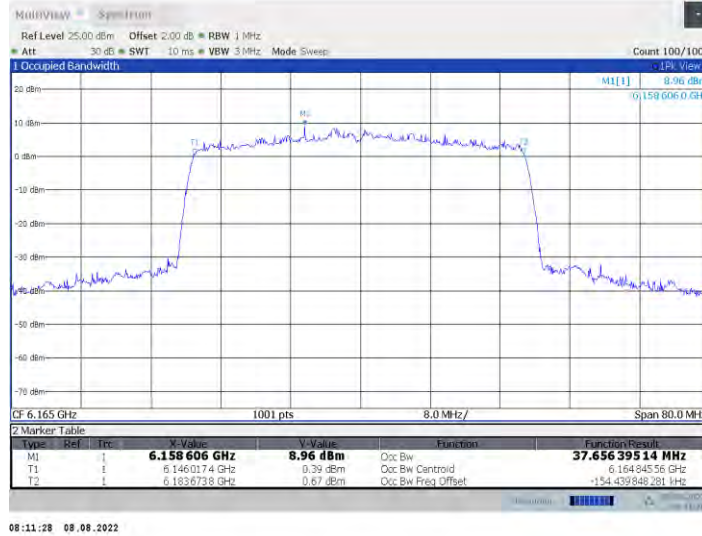
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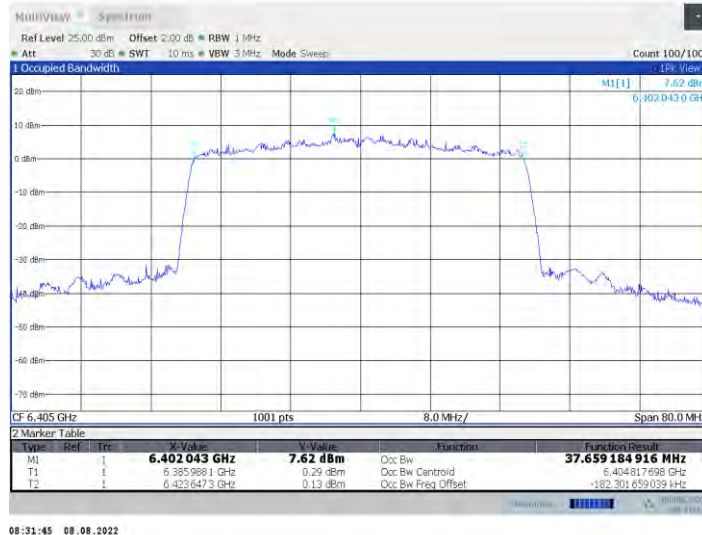
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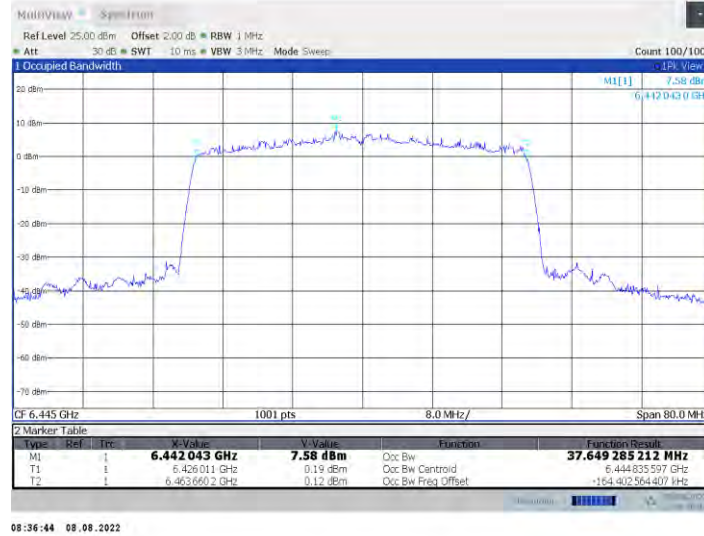
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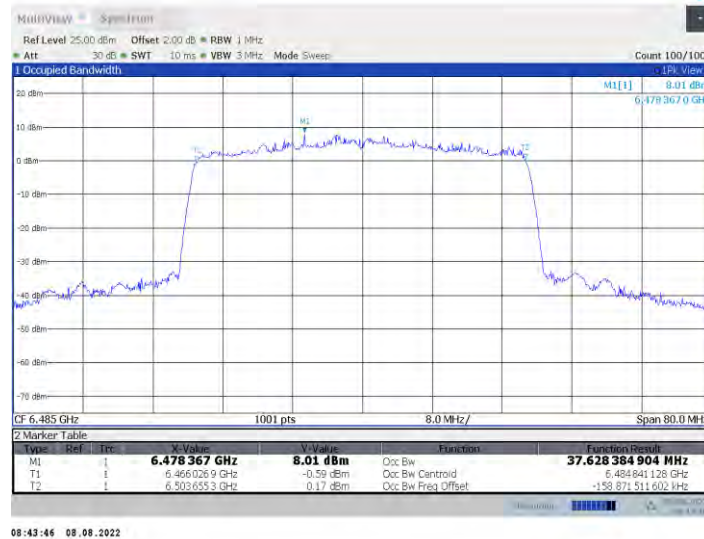
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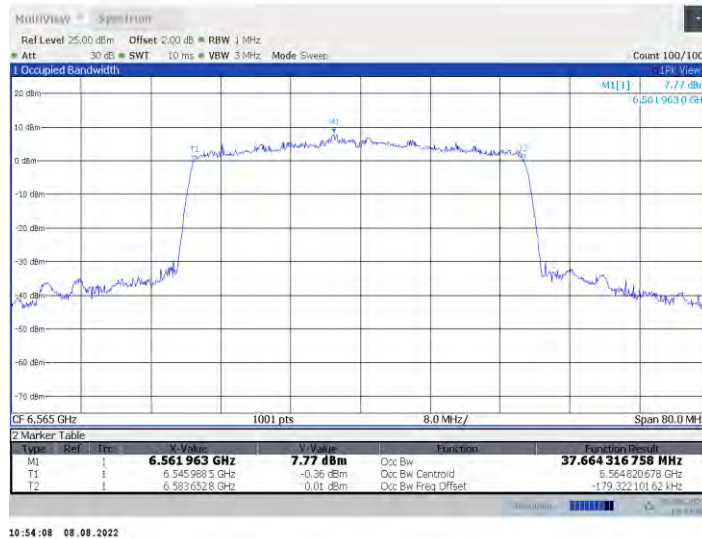
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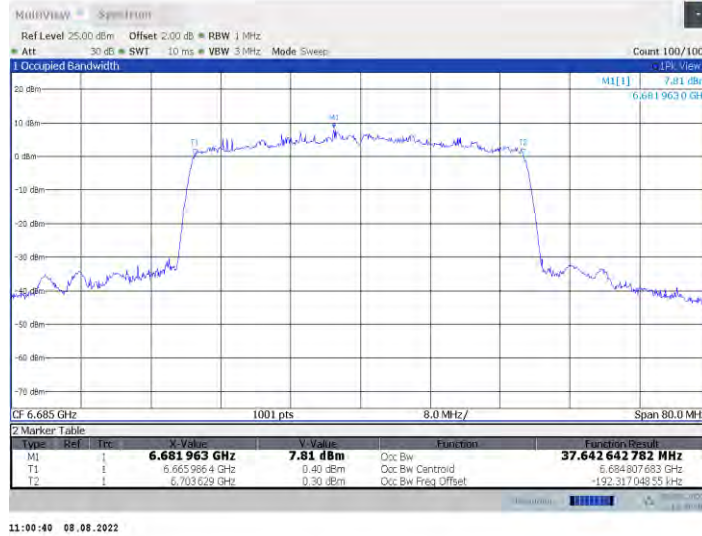
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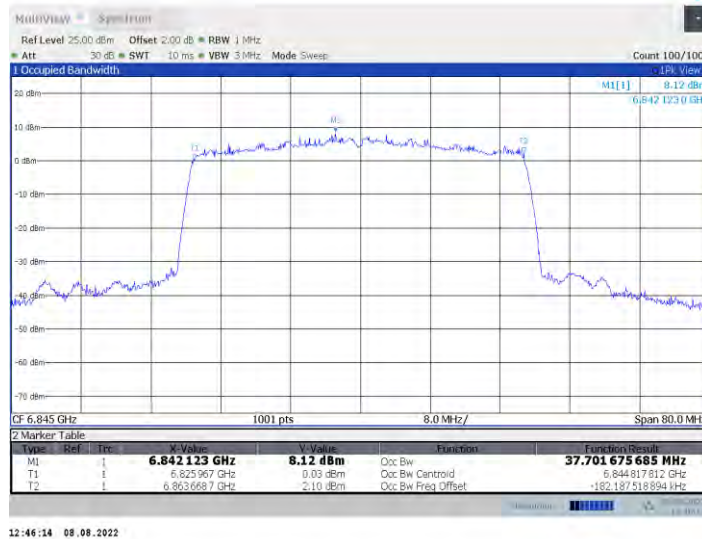
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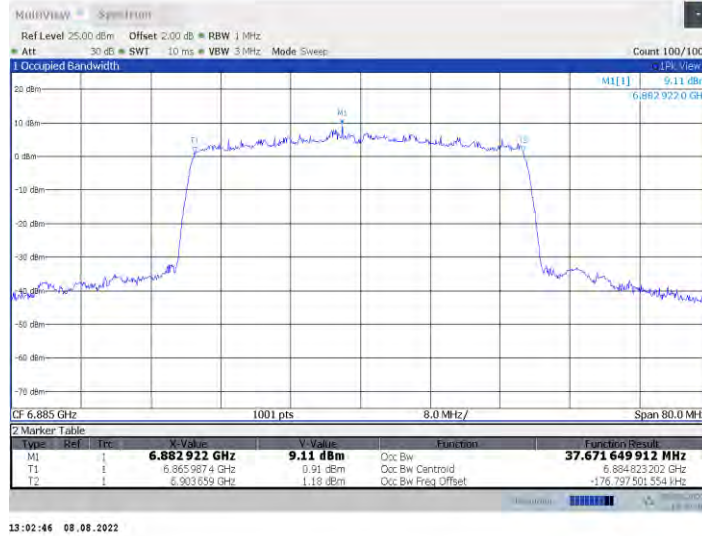


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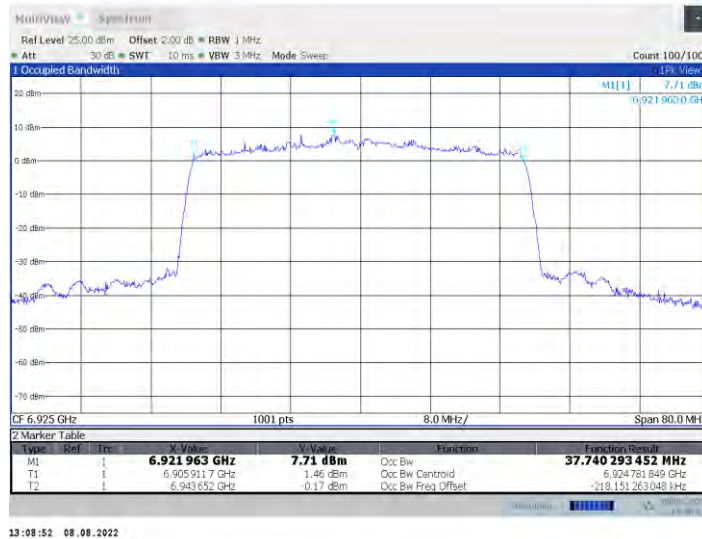
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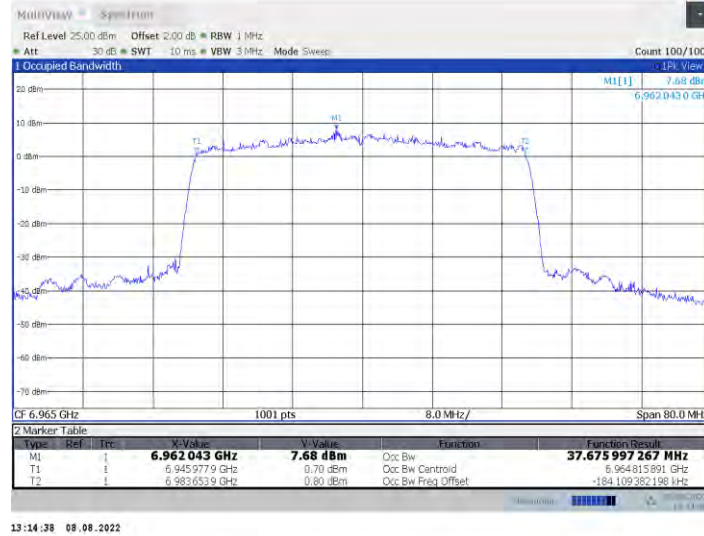


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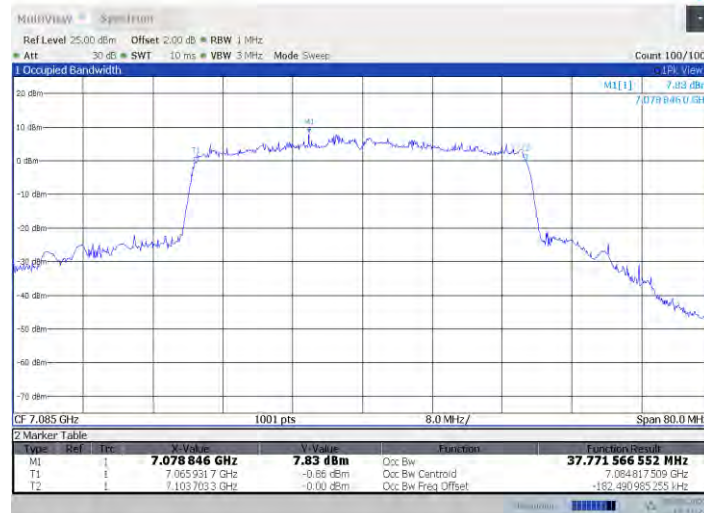
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13:14:38 08.08.2022

11ax40SISO Ant4 7085



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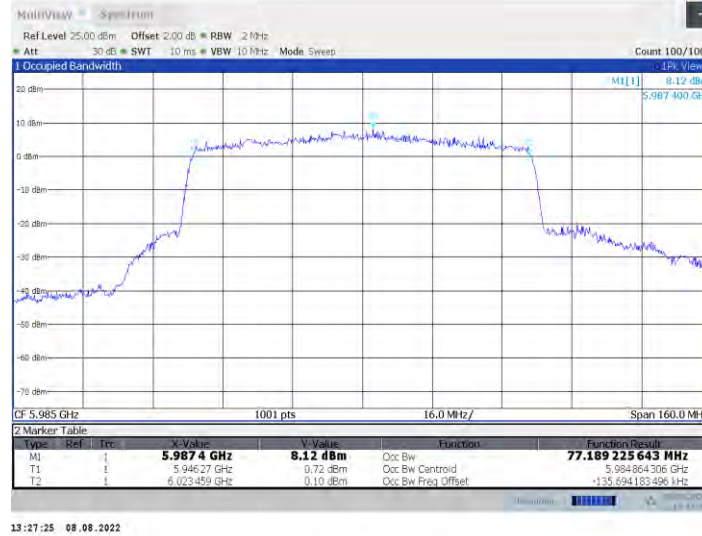
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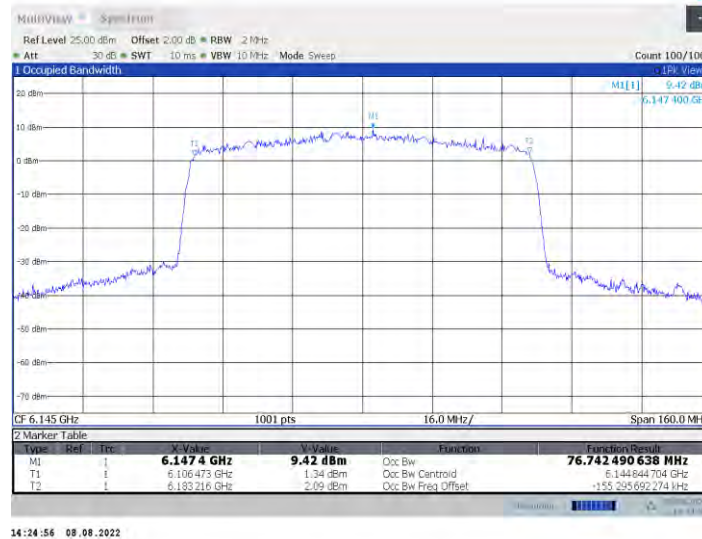
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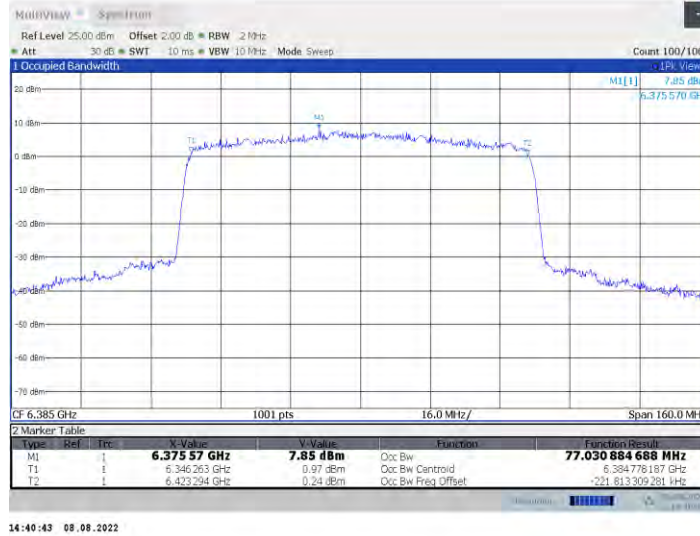


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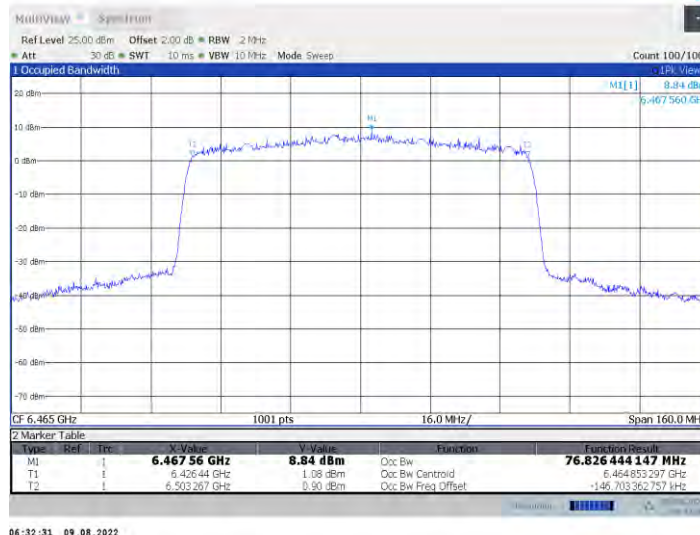
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14:40:43 08.08.2022

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06:32:31 09.08.2022

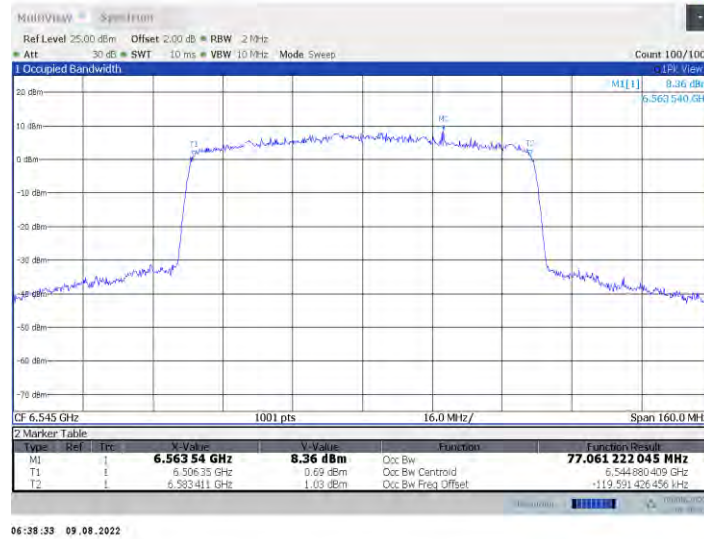


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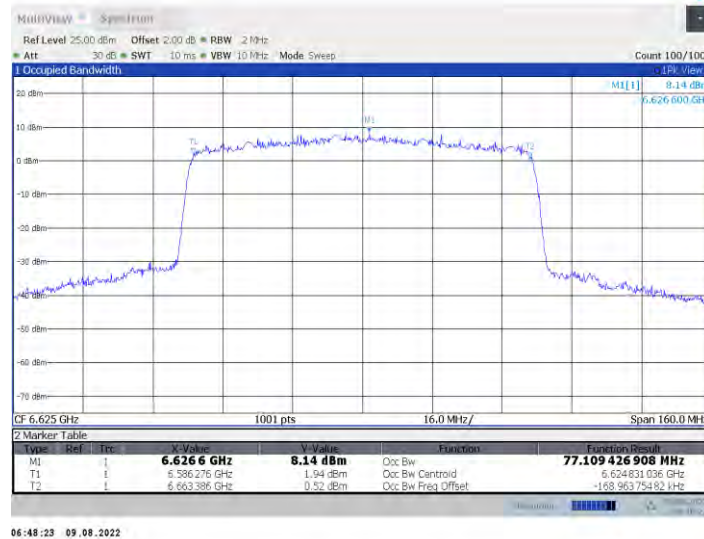
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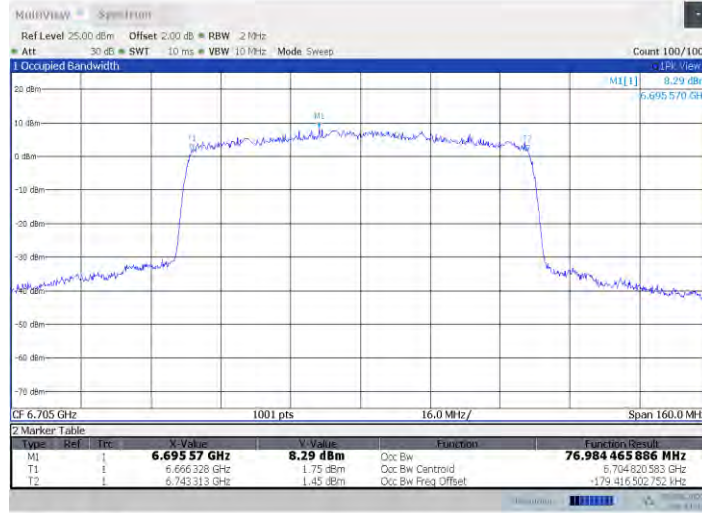


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06:54:44 09.08.2022

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07:00:54 09.08.2022

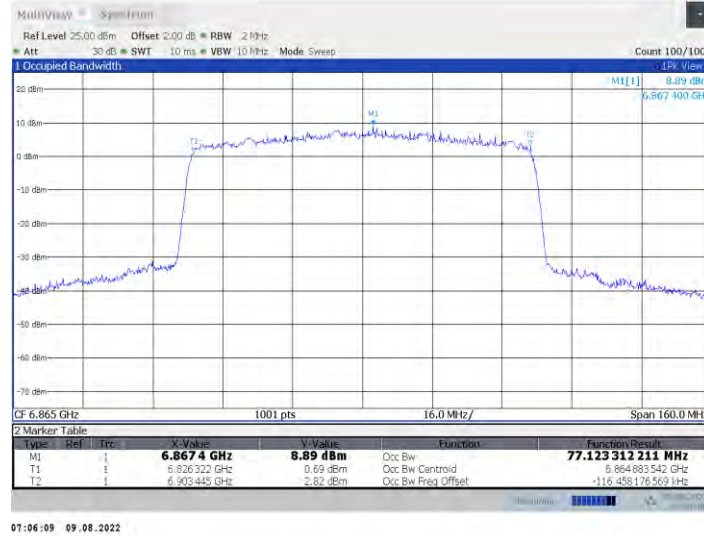


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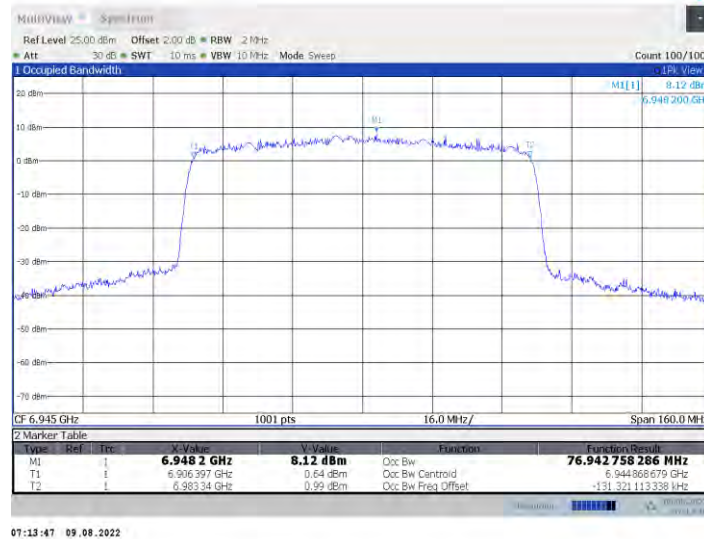
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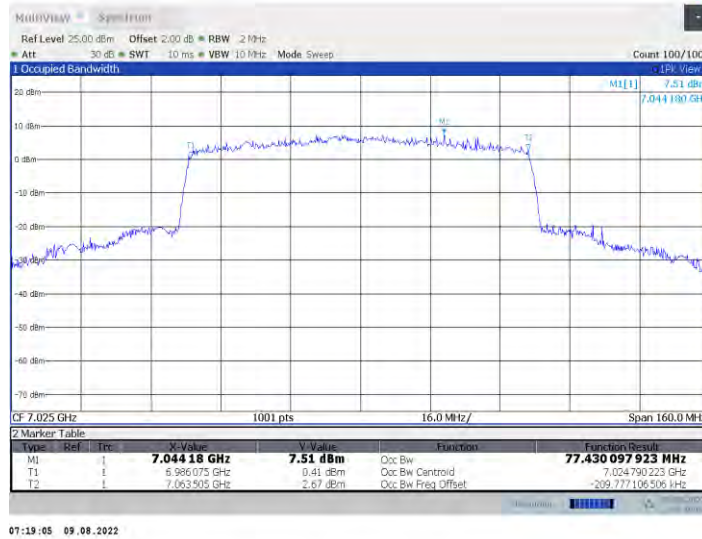
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07:59:58 09.09.2022



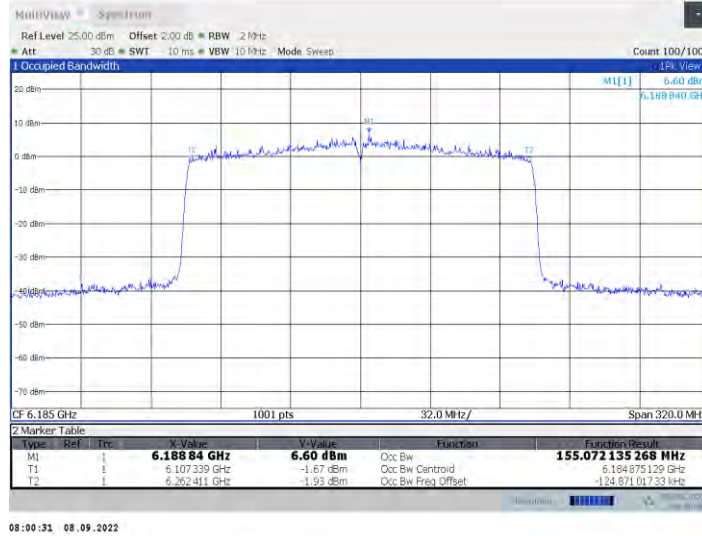
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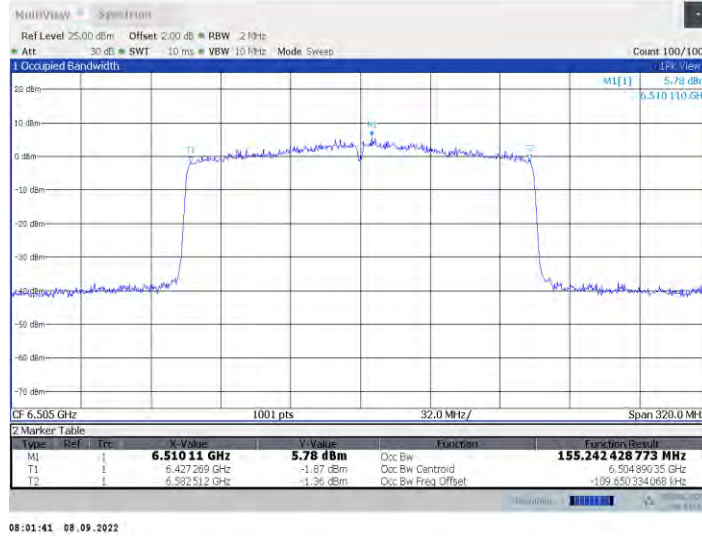
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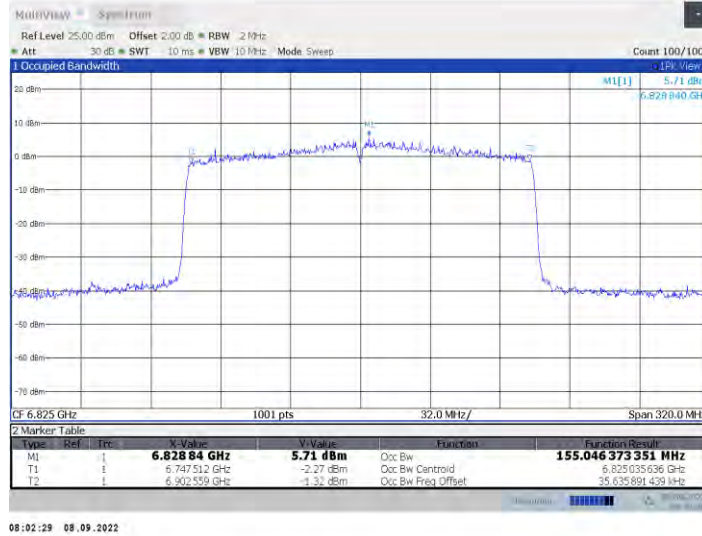
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Report No.: SEWM2207000107RG07

Rev.: 01

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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Verdict
11ax20SISO	Ant4	5955	1.01	1.05	96.19	Reporting only
11ax40SISO	Ant4	5965	0.53	0.57	92.98	
11ax80SISO	Ant4	5985	0.51	0.55	92.73	
11ax160SISO	Ant4	6025	0.39	0.43	90.70	



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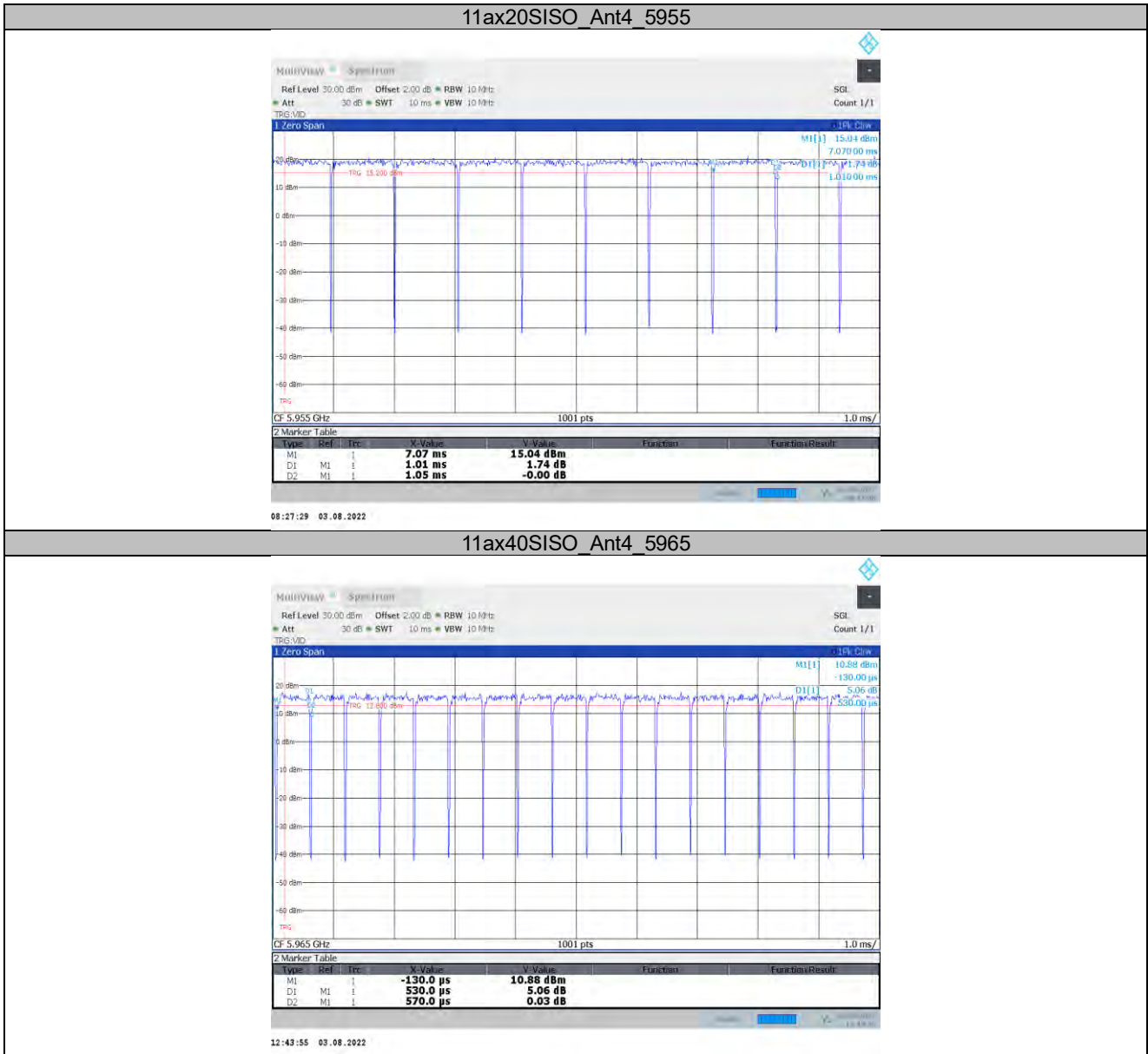
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Test Graphs



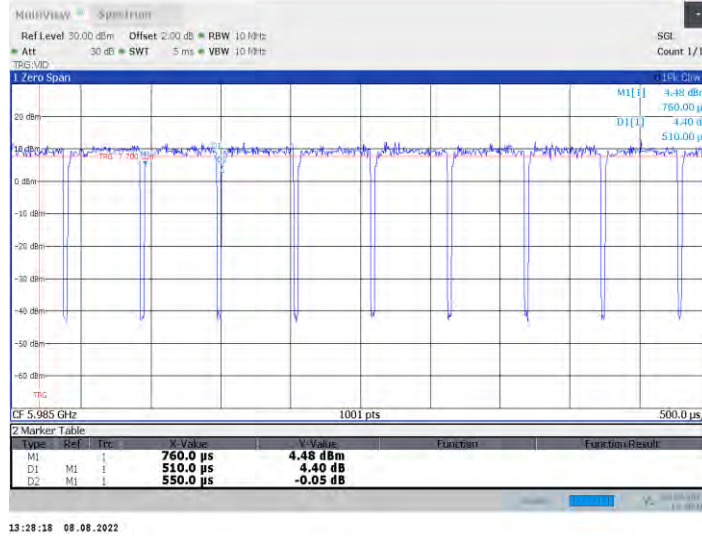
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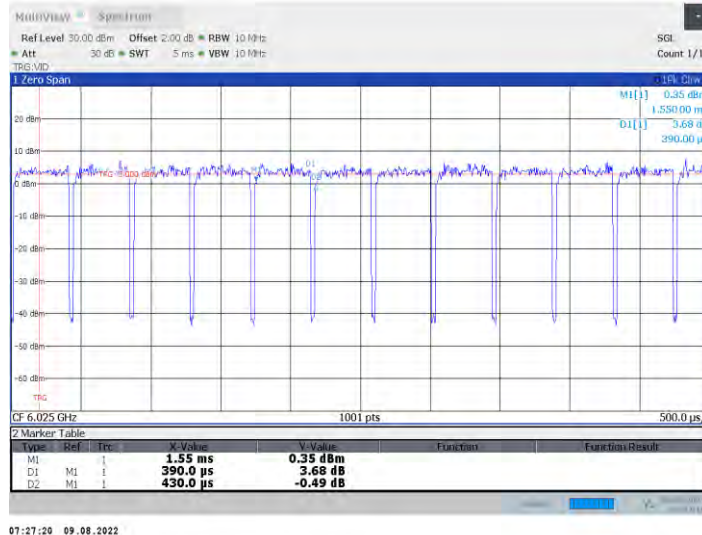
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11ax80SISO_Ant4_5985



13:28:18 08.08.2022

11ax160SISO_Ant4_6025



07:27:20 09.08.2022



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**Contention Based Protocol
Test Result**

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)				
UNII Band 5	6135	20	6135	-74.66	100	-62	-73.9	-0.76	11.9				
				Result: Stop Transmission									
				-78.66	<90	-62	-77.9	-0.76	15.9				
				Result: Minimal Operation									
				-79.66	0	-62	-78.9	-0.76	16.9				
				Result: Normal Operation									
	6145	80	6110	-75.92	100	-62	-75.16	-0.76	13.16				
				Result: Stop Transmission									
				-79.92	<90	-62	-79.16	-0.76	17.16				
				Result: Minimal Operation									
				-80.92	0	-62	-80.16	-0.76	18.16				
				Result: Normal Operation									
	6180	80	6145	-75.33	100	-62	-74.57	-0.76	12.57				
				Result: Stop Transmission									
				-79.33	<90	-62	-78.57	-0.76	16.57				
				Result: Minimal Operation									
				-80.33	0	-62	-79.57	-0.76	17.57				
				Result: Normal Operation									
	6180	80	6180	-75.75	100	-62	-74.99	-0.76	12.99				
				Result: Stop Transmission									
				-79.75	<90	-62	-78.99	-0.76	16.99				
				Result: Minimal Operation									
				-80.75	0	-62	-79.99	-0.76	17.99				
				Result: Normal Operation									
6185	160	6110	-74.97	100	-62	-74.21	-0.76	12.21					
			Result: Stop Transmission										
			-79.97	<90	-62	-79.21	-0.76	17.21					
			Result: Minimal Operation										
			-80.97	0	-62	-80.21	-0.76	18.21					
			Result: Normal Operation										
	6185	160	6185	-75.04	100	-62	-74.28	-0.76	12.28				
				Result: Stop Transmission									
				-79.04	<90	-62	-78.28	-0.76	16.28				
				Result: Minimal Operation									
				-80.04	0	-62	-79.28	-0.76	17.28				
				Result: Normal Operation									
6260	160	6260	-75.03	100	-62	-74.27	-0.76	12.27					
			Result: Stop Transmission										
			-79.03	<90	-62	-78.27	-0.76	16.27					
			Result: Minimal Operation										
			-80.03	0	-62	-79.27	-0.76	17.27					
			Result: Normal Operation										

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)



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Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)		
UNII Band 6	6455	20	6455	-75.01	100	-62	-74	-1.01	12		
				Result: Stop Transmission							
				-79.01	<90	-62	-78	-1.01	16		
				Result: Minimal Operation							
				-80.01	0	-62	-79	-1.01	17		
				Result: Normal Operation							
	6465	80	6430	-74.37	100	-62	-73.36	-1.01	11.36		
				Result: Stop Transmission							
				-78.37	<90	-62	-77.36	-1.01	15.36		
				Result: Minimal Operation							
				-79.37	0	-62	-78.36	-1.01	16.36		
				Result: Normal Operation							
			6465	80	6465	-75.54	100	-62	-74.53	-1.01	12.53
						Result: Stop Transmission					
						-79.54	<90	-62	-78.53	-1.01	16.53
						Result: Minimal Operation					
						-80.54	0	-62	-79.53	-1.01	17.53
						Result: Normal Operation					
	6500	80	6500	-76.80	100	-62	-75.79	-1.01	13.79		
				Result: Stop Transmission							
				-80.80	<90	-62	-79.79	-1.01	17.79		
				Result: Minimal Operation							
				-81.80	0	-62	-80.79	-1.01	18.79		
				Result: Normal Operation							
6505	160	6430	-74.94	100	-62	-73.93	-1.01	11.93			
			Result: Stop Transmission								
			-79.94	<90	-62	-78.93	-1.01	16.93			
			Result: Minimal Operation								
			-80.94	0	-62	-79.93	-1.01	17.93			
			Result: Normal Operation								
		6505	160	6505	-74.96	100	-62	-73.95	-1.01	11.95	
					Result: Stop Transmission						
					-79.96	<90	-62	-78.95	-1.01	16.95	
					Result: Minimal Operation						
					-80.96	0	-62	-79.95	-1.01	17.95	
					Result: Normal Operation						
6580	160	6580	-74.81	100	-62	-73.8	-1.01	11.8			
			Result: Stop Transmission								
			-79.81	<90	-62	-78.8	-1.01	16.8			
			Result: Minimal Operation								
			-80.81	0	-62	-79.8	-1.01	17.8			
			Result: Normal Operation								

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)



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Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)		
UNII Band 7	6695	20	6695	-76.01	100	-62	-75.36	-0.65	13.36		
				Result: Stop Transmission							
				-80.01	<90	-62	-79.36	-0.65	17.36		
				Result: Minimal Operation							
				-81.01	0	-62	-80.36	-0.65	18.36		
				Result: Normal Operation							
	6705	80	6670	-76.12	100	-62	-75.47	-0.65	13.47		
				Result: Stop Transmission							
				-80.12	<90	-62	-79.47	-0.65	17.47		
				Result: Minimal Operation							
				-81.12	0	-62	-80.47	-0.65	18.47		
				Result: Normal Operation							
			6705	80	6705	-74.66	100	-62	-74.01	-0.65	12.01
						Result: Stop Transmission					
						-79.66	<90	-62	-79.01	-0.65	17.01
						Result: Minimal Operation					
						-80.66	0	-62	-80.01	-0.65	18.01
						Result: Normal Operation					
	6740	80	6740	-73.74	100	-62	-73.09	-0.65	11.09		
				Result: Stop Transmission							
				-77.74	<90	-62	-77.09	-0.65	15.09		
				Result: Minimal Operation							
				-78.74	0	-62	-78.09	-0.65	16.09		
				Result: Normal Operation							
	6825	160	6750	-74.71	100	-62	-74.06	-0.65	12.06		
				Result: Stop Transmission							
				-79.71	<90	-62	-79.06	-0.65	17.06		
				Result: Minimal Operation							
				-80.71	0	-62	-80.06	-0.65	18.06		
				Result: Normal Operation							
			6825	160	6825	-74.83	100	-62	-74.18	-0.65	12.18
						Result: Stop Transmission					
						-79.83	<90	-62	-79.18	-0.65	17.18
						Result: Minimal Operation					
						-80.83	0	-62	-80.18	-0.65	18.18
						Result: Normal Operation					
6900	160	6900	-74.76	100	-62	-74.11	-0.65	12.11			
			Result: Stop Transmission								
			-79.76	<90	-62	-79.11	-0.65	17.11			
			Result: Minimal Operation								
			-80.76	0	-62	-80.11	-0.65	18.11			
			Result: Normal Operation								

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)



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UNII Band 8	7015	20	7015	-74.39	100	-62	-73.54	-0.85	11.54					
				Result: Stop Transmission										
				-78.39	<90	-62	-77.54	-0.85	15.54					
				Result: Minimal Operation										
				-79.39	0	-62	-78.54	-0.85	16.54					
				Result: Normal Operation										
				7025	80	6990	-75.38	100	-62	-74.53	-0.85	12.53		
							Result: Stop Transmission							
							-79.38	<90	-62	-78.53	-0.85	16.53		
	Result: Minimal Operation													
	-80.38	0	-62				-79.53	-0.85	17.53					
	Result: Normal Operation													
	7025	80	7025				-73.85	100	-62	-73	-0.85	11		
							Result: Stop Transmission							
							-77.85	<90	-62	-77	-0.85	15		
	Result: Minimal Operation													
	-78.85	0	-62	-78	-0.85	16								
	Result: Normal Operation													
	7060	80	7060	-74.71	100	-62	-73.86	-0.85	11.86					
				Result: Stop Transmission										
				-78.71	<90	-62	-77.86	-0.85	15.86					
	Result: Minimal Operation													
	-79.71	0	-62	-78.86	-0.85	16.86								
	Result: Normal Operation													
	6985	160	6910	-75.04	100	-62	-74.19	-0.85	12.19					
				Result: Stop Transmission										
				-79.04	<90	-62	-78.19	-0.85	16.19					
				Result: Minimal Operation										
				-80.04	0	-62	-79.19	-0.85	17.19					
				Result: Normal Operation										
				6985	160	6985	-74.94	100	-62	-74.09	-0.85	12.09		
							Result: Stop Transmission							
							-79.94	<90	-62	-79.09	-0.85	17.09		
	Result: Minimal Operation													
	-80.94	0	-62	-80.09	-0.85	18.09								
	Result: Normal Operation													
7060	160	7060	-74.98	100	-62	-74.13	-0.85	12.13						
			Result: Stop Transmission											
			-79.98	<90	-62	-79.13	-0.85	17.13						
Result: Minimal Operation														
-80.98	0	-62	-80.13	-0.85	18.13									
Result: Normal Operation														

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)

Remark:

This product does not support channel puncturing and/or bandwidth reduction mechanisms.



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Test Graphs

Contention Based Protocol Result on U-NII 5 (AWGN Interference)	
802.11 ax (HE20) /6135MHz Threshold Level (TL)	802.11 ax (HE20) /6135MHz Test Result is pass due to no transmission occur.
802.11 ax (HE20) /6135MHz Threshold Level (TL)	802.11 ax (HE20) /6135MHz Transmission when the interferer is 1dB lower



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Contention Based Protocol Result on U-NII 5 (AWGN Interference)	
<p>802.11 ax (HE80) /6110MHz Threshold Level (TL)</p>	<p>802.11 ax (HE80) /6110MHz Test Result is pass due to no transmission occur.</p>
<p>802.11 ax (HE80) /6110MHz Threshold Level (TL)</p>	<p>802.11 ax (HE80) /6110MHz Transmission when the interferer is 1dB lower</p>



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Contention Based Protocol Result on U-NII 5 (AWGN Interference)	
802.11 ax (HE80) /6145MHz Threshold Level (TL)	802.11 ax (HE80) /6145MHz Test Result is pass due to no transmission occur.
802.11 ax (HE80) /6145MHz Threshold Level (TL)	802.11 ax (HE80) /6145MHz Transmission when the interferer is 1dB lower



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Contention Based Protocol Result on U-NII 5 (AWGN Interference)	
<p>802.11 ax (HE80) /6180MHz Threshold Level (TL)</p>	<p>802.11 ax (HE80) /6180MHz Test Result is pass due to no transmission occur.</p>
<p>802.11 ax (HE80) /6180MHz Threshold Level (TL)</p>	<p>802.11 ax (HE80) /6180MHz Transmission when the interferer is 1dB lower</p>



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Contention Based Protocol Result on U-NII 5 (AWGN Interference)

<p>802.11 ax (HE160) /6110MHz Threshold Level (TL)</p>	<p>802.11 ax (HE160) /6110MHz Test Result is pass due to no transmission occur.</p>
<p>802.11 ax (HE160) /6110MHz Threshold Level (TL)</p>	<p>802.11 ax (HE160) /6110MHz Transmission when the interferer is 1dB lower</p>



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Contention Based Protocol Result on U-NII 5 (AWGN Interference)	
802.11 ax (HE160) /6185MHz Threshold Level (TL)	802.11 ax (HE160) /6185MHz Test Result is pass due to no transmission occur.
802.11 ax (HE160) /6185MHz Threshold Level (TL)	802.11 ax (HE160) /6185MHz Transmission when the interferer is 1dB lower



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Contention Based Protocol Result on U-NII 5 (AWGN Interference)	
802.11 ax (HE160) /6260MHz Threshold Level (TL)	802.11 ax (HE160) /6260MHz Test Result is pass due to no transmission occur.
802.11 ax (HE160) /6260MHz Threshold Level (TL)	802.11 ax (HE160) /6260MHz Transmission when the interferer is 1dB lower



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Contention Based Protocol Result on U-NII 6 (AWGN Interference)	
802.11 ax (HE20) /6455MHz Threshold Level (TL)	802.11 ax (HE20) /6455MHz Test Result is pass due to no transmission occur.
802.11 ax (HE20) /6455MHz Threshold Level (TL)	802.11 ax (HE20) /6455MHz Transmission when the interferer is 1dB lower



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Contention Based Protocol Result on U-NII 6 (AWGN Interference)	
802.11 ax (HE80) /6430MHz Threshold Level (TL)	802.11 ax (HE80) /6430MHz Test Result is pass due to no transmission occur.
802.11 ax (HE80) /6430MHz Threshold Level (TL)	802.11 ax (HE80) /6430MHz Transmission when the interferer is 1dB lower



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Contention Based Protocol Result on U-NII 6 (AWGN Interference)	
<p>802.11 ax (HE80) /6465MHz Threshold Level (TL)</p>	<p>802.11 ax (HE80) /6465MHz Test Result is pass due to no transmission occur.</p>
<p>802.11 ax (HE80) /6465MHz Threshold Level (TL)</p>	<p>802.11 ax (HE80) /6465MHz Transmission when the interferer is 1dB lower</p>



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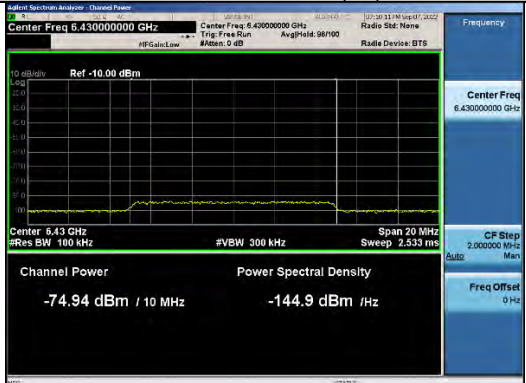
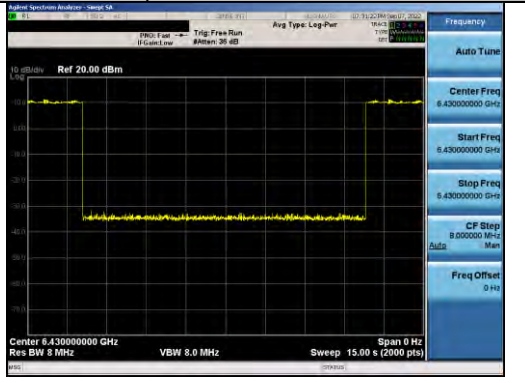

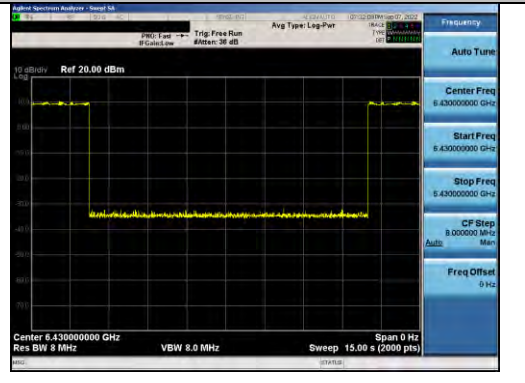
Contention Based Protocol Result on U-NII 6 (AWGN Interference)	
802.11 ax (HE80) /6500MHz Threshold Level (TL)	802.11 ax (HE80) /6500MHz Test Result is pass due to no transmission occur.
802.11 ax (HE80) /6500MHz Threshold Level (TL)	802.11 ax (HE80) /6500MHz Transmission when the interferer is 1dB lower



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Contention Based Protocol Result on U-NII 6 (AWGN Interference)

<p>802.11 ax (HE160) /6430MHz Threshold Level (TL)</p> 	<p>802.11 ax (HE160) /6430MHz Test Result is pass due to no transmission occur.</p> 
<p>802.11 ax (HE160) /6430MHz Threshold Level (TL)</p> 	<p>802.11 ax (HE160) /6430MHz Transmission when the interferer is 1dB lower</p> 



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Contention Based Protocol Result on U-NII 6 (AWGN Interference)	
802.11 ax (HE160) /6505MHz Threshold Level (TL)	802.11 ax (HE160) /6505MHz Test Result is pass due to no transmission occur.
802.11 ax (HE160) /6505MHz Threshold Level (TL)	802.11 ax (HE160) /6505MHz Transmission when the interferer is 1dB lower



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Contention Based Protocol Result on U-NII 6 (AWGN Interference)	
<p>802.11 ax (HE160) /6580MHz Threshold Level (TL)</p>	<p>802.11 ax (HE160) /6580MHz Test Result is pass due to no transmission occur.</p>
<p>802.11 ax (HE160) /6580MHz Threshold Level (TL)</p>	<p>802.11 ax (HE160) /6580MHz Transmission when the interferer is 1dB lower</p>



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Contention Based Protocol Result on U-NII 7 (AWGN Interference)	
<p>802.11 ax (HE20) /6695MHz Threshold Level (TL)</p>	<p>802.11 ax (HE20) /6695MHz Test Result is pass due to no transmission occur.</p>
<p>802.11 ax (HE20) /6695MHz Threshold Level (TL)</p>	<p>802.11 ax (HE20) /6695MHz Transmission when the interferer is 1dB lower</p>



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Contention Based Protocol Result on U-NII 7 (AWGN Interference)	
<p>802.11 ax (HE80) /6670MHz Threshold Level (TL)</p>	<p>802.11 ax (HE80) /6670MHz Test Result is pass due to no transmission occur.</p>
<p>802.11 ax (HE80) /6670MHz Threshold Level (TL)</p>	<p>802.11 ax (HE80) /6670MHz Transmission when the interferer is 1dB lower</p>



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Contention Based Protocol Result on U-NII 7 (AWGN Interference)	
<p>802.11 ax (HE80) /6705MHz Threshold Level (TL)</p>	<p>802.11 ax (HE80) /6705MHz Test Result is pass due to no transmission occur.</p>
<p>802.11 ax (HE80) /6705MHz Threshold Level (TL)</p>	<p>802.11 ax (HE80) /6705MHz Transmission when the interferer is 1dB lower</p>



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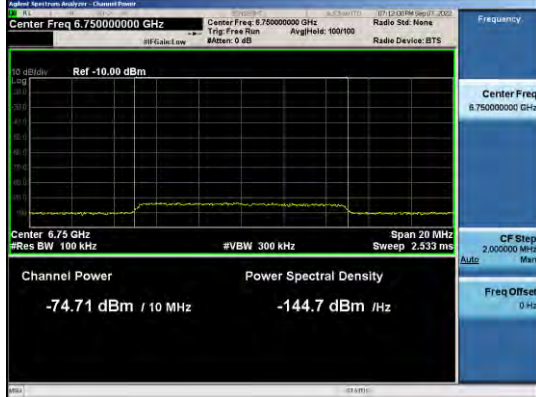
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Contention Based Protocol Result on U-NII 7 (AWGN Interference)	
802.11 ax (HE80) /6740MHz Threshold Level (TL)	802.11 ax (HE80) /6740MHz Test Result is pass due to no transmission occur.
802.11 ax (HE80) /6740MHz Threshold Level (TL)	802.11 ax (HE80) /6740MHz Transmission when the interferer is 1dB lower

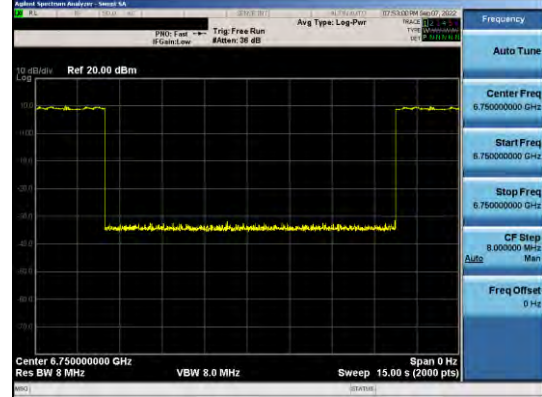


Contention Based Protocol Result on U-NII 7 (AWGN Interference)

802.11 ax (HE160) /6750MHz
Threshold Level (TL)

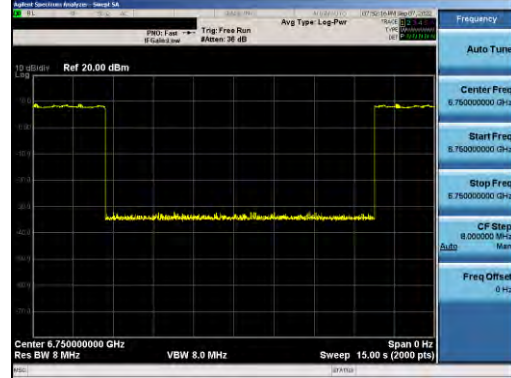


802.11 ax (HE160) /6750MHz
Test Result is pass due to no transmission occur.



802.11 ax (HE160) /6750MHz
Threshold Level (TL)

802.11 ax (HE160) /6750MHz
Transmission when the interferer is 1dB lower



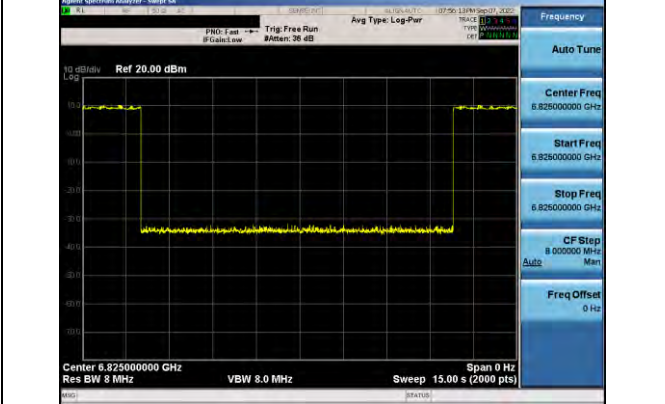
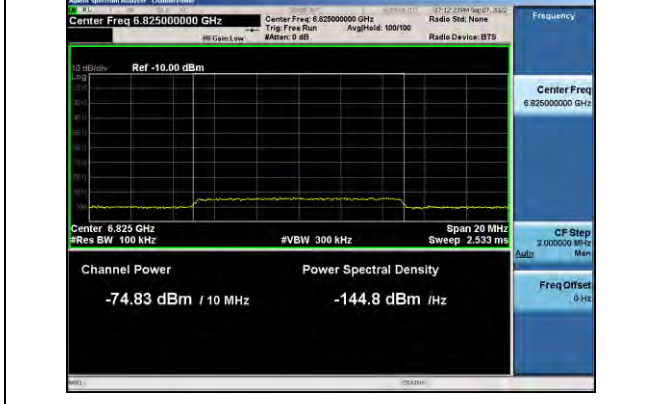
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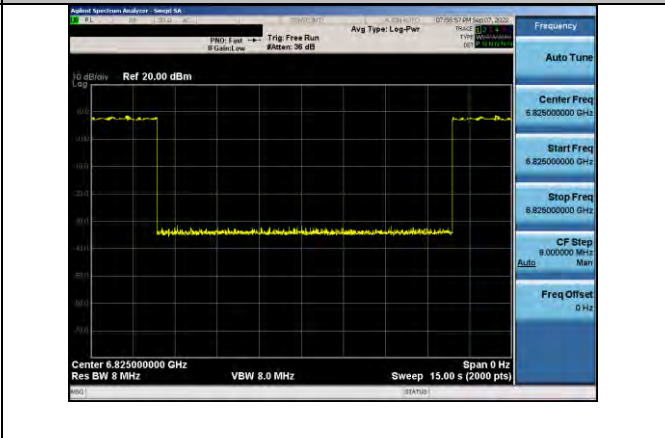
Contention Based Protocol Result on U-NII 7 (AWGN Interference)

802.11 ax (HE160) /6825MHz Threshold Level (TL)	802.11 ax (HE160) /6825MHz Test Result is pass due to no transmission occur.
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802.11 ax (HE160) /6825MHz
 Threshold Level (TL)

802.11 ax (HE160) /6825MHz
 Transmission when the interferer is 1dB lower



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Contention Based Protocol Result on U-NII 7 (AWGN Interference)	
802.11 ax (HE160) /6900MHz Threshold Level (TL)	802.11 ax (HE160) /6900MHz Test Result is pass due to no transmission occur.
802.11 ax (HE160) /6900MHz Threshold Level (TL)	802.11 ax (HE160) /6900MHz Transmission when the interferer is 1dB lower



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Contention Based Protocol Result on U-NII 8 (AWGN Interference)

<p>802.11 ax (HE20) /7015MHz Threshold Level (TL)</p>	<p>802.11 ax (HE20) /7015MHz Test Result is pass due to no transmission occur.</p>
<p>802.11 ax (HE20) /7015MHz Threshold Level (TL)</p>	<p>802.11 ax (HE20) /7015MHz Transmission when the interferer is 1dB lower</p>



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Contention Based Protocol Result on U-NII 8 (AWGN Interference)	
802.11 ax (HE80) /6990MHz Threshold Level (TL)	802.11 ax (HE80) /6990MHz Test Result is pass due to no transmission occur.
802.11 ax (HE80) /6990MHz Threshold Level (TL)	802.11 ax (HE80) /6990MHz Transmission when the interferer is 1dB lower



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