

Report No.: SEWM2207000107RG06

Rev.: 01

Page: 1 of 533

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 2, Subpart J
 FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2022/07/11
Date of Test: 2022/07/16 to 2022/08/12
Date of Issue: 2022/08/16

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		2022/08/16		Original

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



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2 Test Summary

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement	--	15.203/15.407(a)	--	Clause 4.1	PASS
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 4.5	Reporting only
	Band II-A	15.407(a)(2)			
	Band II-C	15.407(a)(2)			
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99% Occupied Bandwidth	Band I	KDB 789033 D02§ D	No limit.	Clause 4.7	Reporting only
	Band II-A				
	Band II-C				
	Band III				
Duty Cycle	Band I	--	No limit.	Clause 4.3	Reporting only
	Band II-A				
	Band II-C				
	Band III				
Maximum Conducted Output Power	Band I	15.407(a)	< 250mW	Clause 4.4	PASS
	Band II-A	15.407(a)(2)	<MIN{250mW,11dBm+10*Ig(EBW)}		
	Band II-C				
	Band III	15.407(a)(3)	< 1W		
Maximum Power Spectral Density	Band I	15.407(a)	<11dBm/MHz	Clause 4.8	PASS
	Band II-A	15.407(a)(2)	<11dBm/MHz		
	Band II-C				
	Band III	15.407(a)(3)	<30dBm/500KHz		
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	Band I	15.209 15.407(b)	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.9	PASS
	Band II-A	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
	Band II-C	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
	Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz & out-restricted:(QP) a) 27 dBm/MHz at frequencies from		



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			<p>the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;</p> <p>b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;</p> <p>c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and</p> <p>d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.</p> <p>F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).</p>		
Unwanted Emissions in the Restricted Bands (Radiated)	Band I Band II-A Band II-C Band III	15.209	---	Clause 4.10	PASS
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207	---	Clause 4.2	PASS
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A
<p>Note 1: Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz</p>					



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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:

<ul style="list-style-type: none"> • 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	
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
	802.11ax:	20 MHz / 40 MHz / 80 MHz / 160 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ax:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)/ax(HE20)
	40MHz:	802.11n(HT40)/ac(VHT40)/ax(HE40)
	80MHz:	802.11ac(VHT80)/ax(HE80)
	160MHz:	802.11ax(HE160)
Antenna Type:	PIFA Antenna	
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client	
	5150MHz to 5250MHz: -1.58dBi(Ant4)	
	5250MHz to 5350MHz: -1.53dBi(Ant4)	
	5470MHz to 5725MHz: -1.56dBi(Ant4) 5725MHz to 5850MHz: -1.76dBi(Ant4)	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11a/n/ac/ax
	<input type="checkbox"/> MIMO	CDD: 802.11a/n/ac/ax: Tx & Rx
		STBC: 802.11n/ac/ax: Tx & Rx
		TXBF: 802.11n/ac/ax: Tx & Rx
<input type="checkbox"/> Diversity	802.11a: Tx & Rx	
DFS Function:	<input type="checkbox"/> Master	
	<input type="checkbox"/> Slave with radar detection	<input checked="" type="checkbox"/> Slave without radar detection
RF Cable:	2.0dB	

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this



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The EUT only support full RU.

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

For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac/ax 80MHz	The Middle channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac/ax 80MHz	The Middle channel	5290
IEEE 802.11ax 160MHz	The Middle channel	5250



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For UNII Band II-C:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11ac/ax 80MHz	The Lowest channel	5530
	The Highest channel	5610
IEEE 802.11ax 160MHz	The Middle channel	5570

For UNII Band III:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac/ax 80MHz	The Middle channel	5775

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddle Channel	138#	5690	144	5720
	142*	5710		

Note:

1. The above Frequency and Channel in “*” were 802.11n HT40, 802.11ac VHT40 and ax(HE40).
2. The above Frequency and Channel in “#” were 802.11ac VHT80 and ax(HE80).



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.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	/
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	/
802.11ax (HE 20)	MCS0 (8 Mbps)	/
802.11ax (HE 40)	MCS0 (16 Mbps)	/
802.11ax (HE 80)	MCS0 (34 Mbps)	/
802.11ax (HE 160)	MCS0 (68 Mbps)	/



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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 5150MHz to 5250MHz: -1.58dBi(Ant4) 5250MHz to 5350MHz: -1.53dBi(Ant4) 5470MHz to 5725MHz: -1.56dBi(Ant4) 5725MHz to 5850MHz: -1.76dBi(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> 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.</p>	



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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>Refer to section 3.7 for details. 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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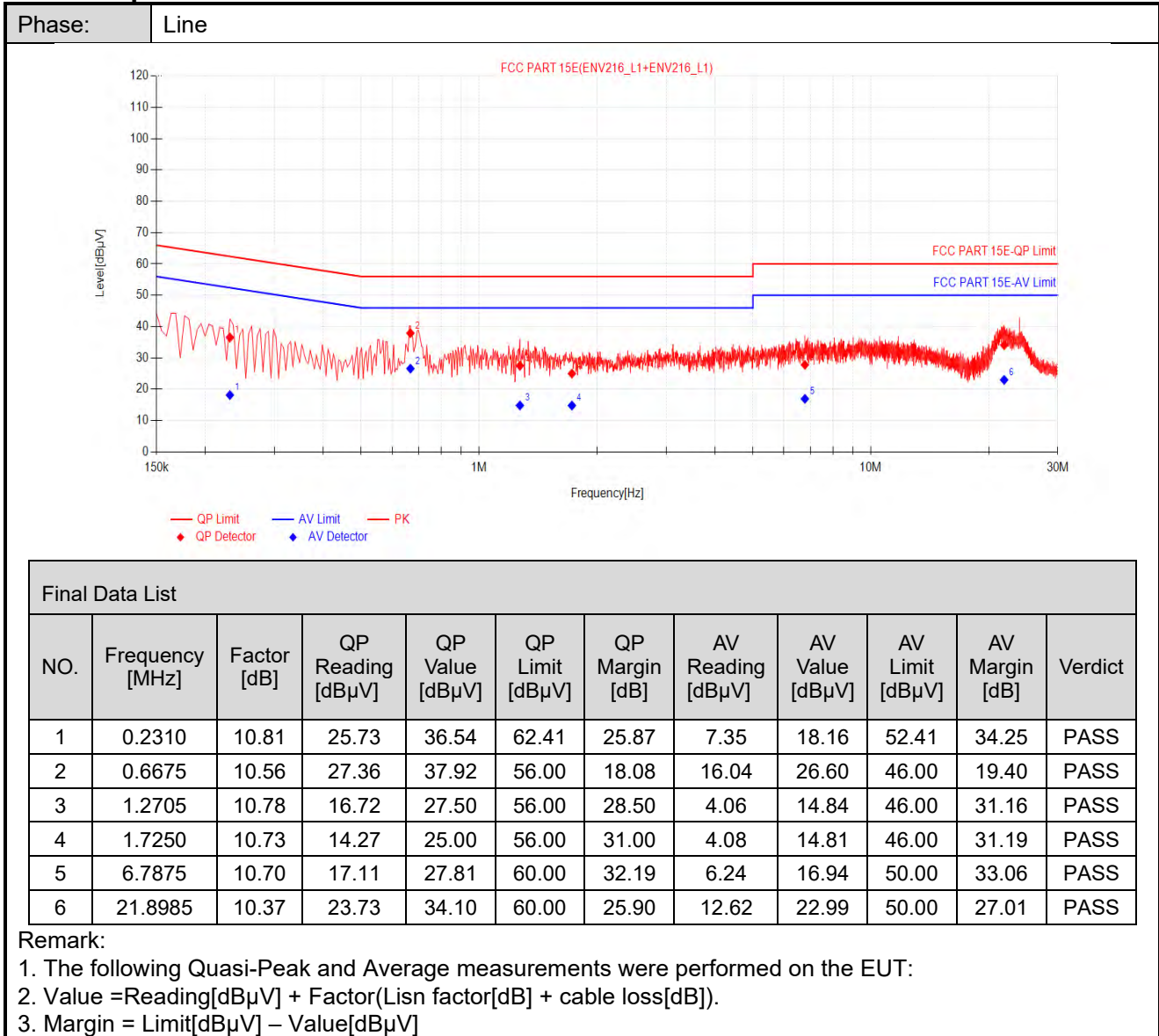
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Measurement Data

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:

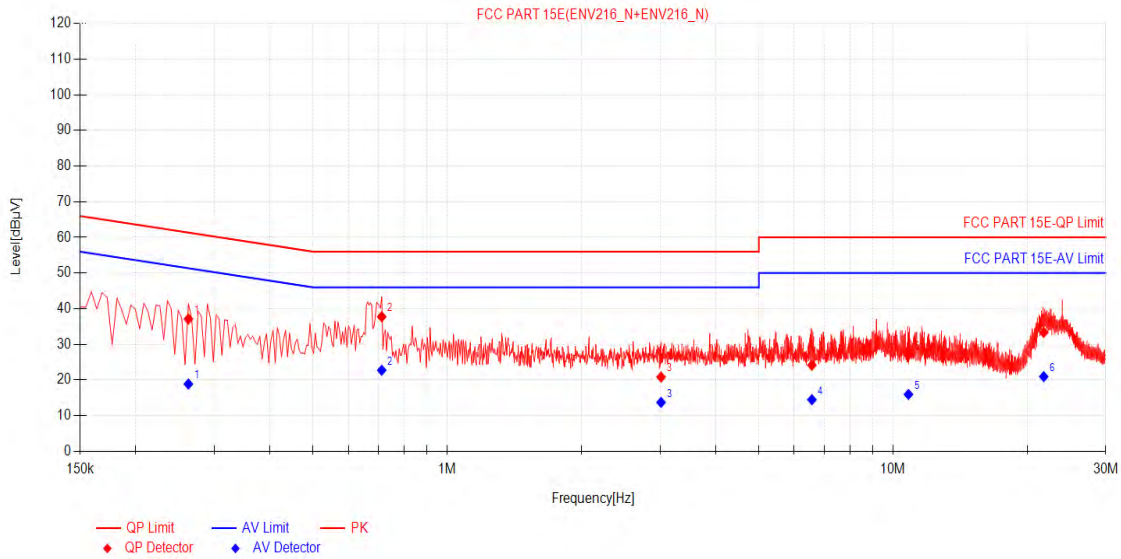


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Phase:	Neutral
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Final Data List

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	0.2625	10.73	26.36	37.09	61.35	24.26	8.14	18.87	51.35	32.48	PASS
2	0.7125	10.81	26.94	37.75	56.00	18.25	11.92	22.73	46.00	23.27	PASS
3	3.0165	10.59	10.24	20.83	56.00	35.17	3.13	13.72	46.00	32.28	PASS
4	6.5760	10.54	13.60	24.14	60.00	35.86	3.94	14.48	50.00	35.52	PASS
5	10.8285	10.66	16.32	26.98	60.00	33.02	5.30	15.96	50.00	34.04	PASS
6	21.7860	10.44	22.87	33.31	60.00	26.69	10.51	20.95	50.00	29.05	PASS

Remark:

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

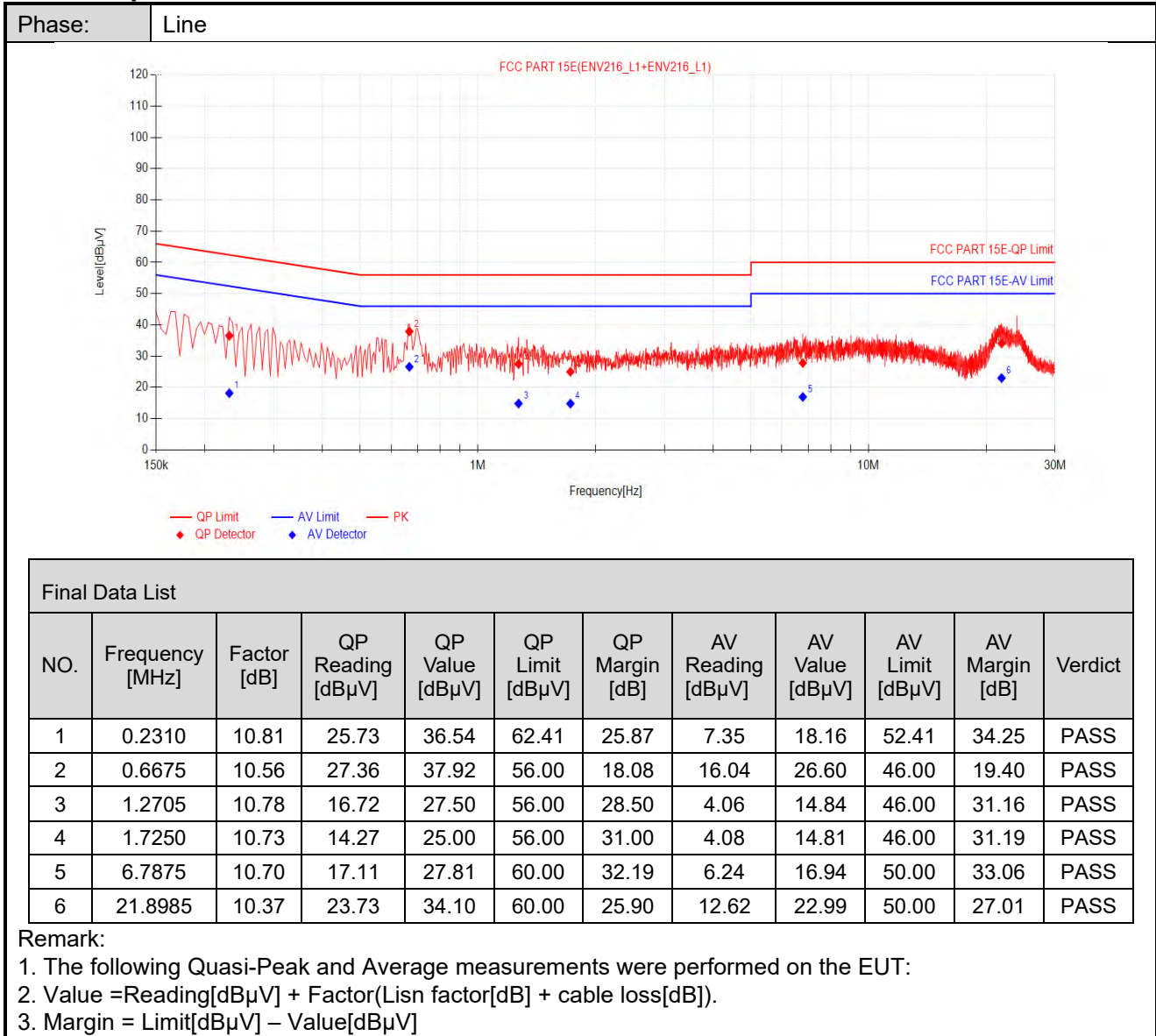


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For Sample #2:

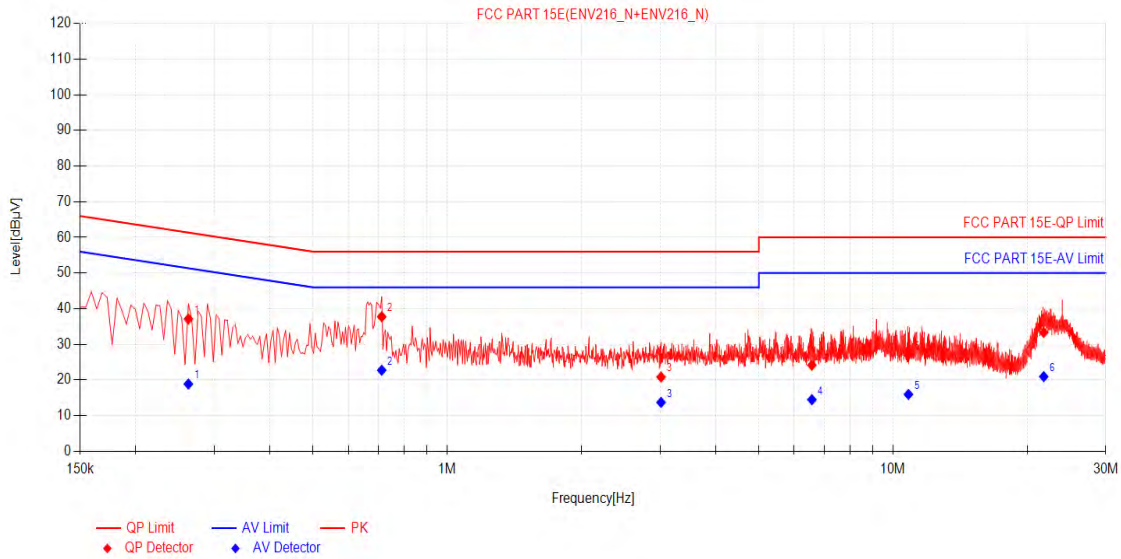


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Phase:	Neutral
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Final Data List

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	0.2625	10.73	26.36	37.09	61.35	24.26	8.14	18.87	51.35	32.48	PASS
2	0.7125	10.81	26.94	37.75	56.00	18.25	11.92	22.73	46.00	23.27	PASS
3	3.0165	10.59	10.24	20.83	56.00	35.17	3.13	13.72	46.00	32.28	PASS
4	6.5760	10.54	13.60	24.14	60.00	35.86	3.94	14.48	50.00	35.52	PASS
5	10.8285	10.66	16.32	26.98	60.00	33.02	5.30	15.96	50.00	34.04	PASS
6	21.7860	10.44	22.87	33.31	60.00	26.69	10.51	20.95	50.00	29.05	PASS

Remark:

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



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4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Conducted Output Power

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:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	
The detailed test data see: Appendix		



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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
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:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	



4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2	
Test Setup:		
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	
The detailed test data see: Appendix		



4.7 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:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	



4.8 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:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	
The detailed test data see: Appendix		



4.9 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:	

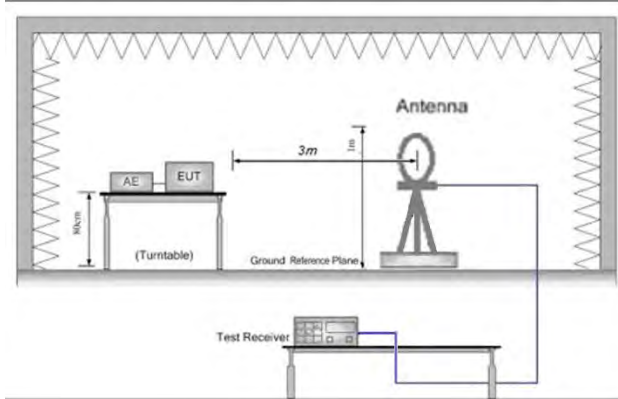


Figure 1. 9kHz to 30MHz

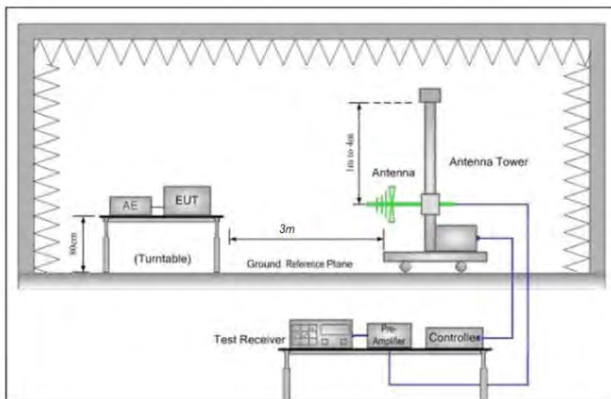


Figure 1. 30MHz to 1GHz

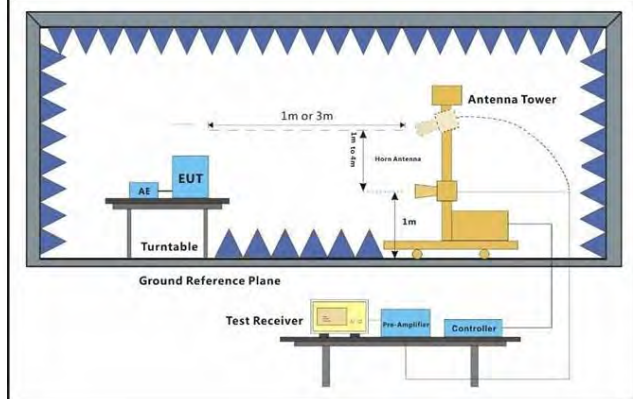


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> 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. For each suspected emission, the EUT was arranged to its worst case and
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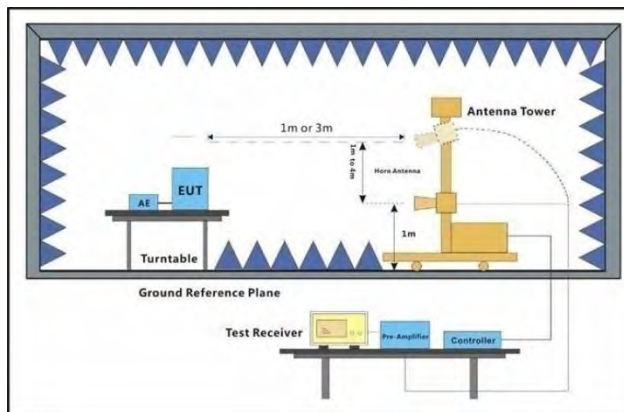
	<p>then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in 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>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>
<p>The detailed test data see: Appendix</p>	



4.10 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 Transmitting mode, And found the X axis positioning which it is worse case.



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<p>Test Configuration:</p>	<p>i. Repeat above procedures until all frequencies measured was complete.</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 ≥ 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>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>
<p>The detailed test data see: Appendix</p>	



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4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<p>Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		



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4.11.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p>Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

4.11.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	

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
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13

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
11a	Ant4	5180	26.88	5166.48	5193.36	Reporting only
		5220	21.04	5209.36	5230.40	
		5240	20.40	5229.76	5250.16	
		5260	20.80	5249.64	5270.44	
		5300	29.00	5284.44	5313.44	
		5320	29.28	5303.72	5333.00	
		5500	29.04	5486.44	5515.48	
		5580	21.84	5568.72	5590.56	
		5700	26.52	5685.92	5712.44	
		5720	22.24	5708.60	5730.84	
		5720 UNII-2C	16.4	5708.60	5725	
		5720 UNII-3	5.84	5725	5730.84	
		5745	25.52	5734.16	5759.68	
		5785	21.52	5774.12	5795.64	
		5825	25.92	5810.60	5836.52	
11n20SISO	Ant4	5180	29.56	5166.52	5196.08	Reporting only
		5220	21.64	5208.96	5230.60	
		5240	20.64	5229.52	5250.16	
		5260	21.96	5248.80	5270.76	
		5300	29.56	5285.00	5314.56	
		5320	29.56	5305.00	5334.56	
		5500	29.20	5486.72	5515.92	
		5580	21.72	5568.76	5590.48	
		5700	27.92	5684.84	5712.76	
		5720	22.56	5708.08	5730.64	
		5720 UNII-2C	16.92	5708.08	5725	
		5720 UNII-3	5.64	5725	5730.64	
		5745	27.44	5733.64	5761.08	
		5785	21.96	5773.72	5795.68	
		5825	27.84	5809.92	5837.76	
11n40SISO	Ant4	5190	61.76	5164.40	5226.16	Reporting only
		5230	40.48	5209.68	5250.16	
		5270	40.40	5249.76	5290.16	
		5310	56.08	5277.84	5333.92	
		5510	57.84	5485.20	5543.04	
		5550	40.56	5529.52	5570.08	
		5670	69.84	5633.76	5703.60	
		5710	40.80	5689.36	5730.16	
		5710 UNII-2C	35.64	5689.36	5725	
		5710 UNII-3	5.16	5725	5730.16	
		5755	54.56	5733.80	5788.36	
		5795	40.96	5774.20	5815.16	
11ac20SISO	Ant4	5180	26.68	5167.24	5193.92	Reporting only
		5220	21.64	5209.08	5230.72	
		5240	20.40	5229.68	5250.08	
		5260	21.96	5248.88	5270.84	
		5300	26.80	5286.56	5313.36	
		5320	26.68	5306.24	5332.92	
		5500	27.08	5486.52	5513.60	
		5580	21.68	5569.16	5590.84	
		5700	25.92	5686.44	5712.36	
		5720	21.36	5709.32	5730.68	



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		5720 UNII-2C	15.68	5709.32	5725		
		5720 UNII-3	5.68	5725	5730.68		
		5745	25.28	5733.92	5759.20		
		5785	21.64	5774.04	5795.68		
		5825	24.20	5811.76	5835.96		
11ac40SISO	Ant4	5190	62.48	5163.04	5225.52		
		5230	41.12	5209.28	5250.40		
		5270	40.56	5249.76	5290.32		
		5310	61.36	5274.32	5335.68		
		5510	57.84	5483.04	5540.88		
		5550	40.72	5529.52	5570.24		
		5670	70.88	5634.80	5705.68		
		5710	40.96	5689.44	5730.40		
		5710 UNII-2C	35.56	5689.44	5725		
		5710 UNII-3	5.4	5725	5730.40		
		5755	57.04	5733.88	5790.92		
		5795	40.48	5774.44	5814.92		
		11ac80SISO	Ant4	5210	108.16	5164.24	5272.40
5290	111.36			5226.48	5337.84		
5530	103.84			5482.96	5586.80		
5610	80.32			5569.68	5650.00		
5690	80.48			5649.68	5730.16		
5690 UNII-2C	75.32			5649.68	5725		
5690 UNII-3	5.16			5725	5730.16		
5775	80.48			5734.68	5815.16		
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		5240	20.04	5229.88	5249.92		
		5260	21.72	5248.92	5270.64		
		5300	21.68	5289.12	5310.80		
		5320	21.60	5309.16	5330.76		
		5500	21.64	5489.24	5510.88		
		5580	21.32	5569.28	5590.60		
		5700	21.20	5689.36	5710.56		
		5720	21.52	5709.08	5730.60		
		5720 UNII-2C	15.92	5709.08	5725		
		5720 UNII-3	5.6	5725	5730.60		
		5745	21.28	5734.28	5755.56		
		5785	21.68	5773.96	5795.64		
		5825	21.52	5814.12	5835.64		
		11ax40SISO	Ant4	5190	40.00	5169.84	5209.84
				5230	39.84	5210.00	5249.84
5270	39.92			5250.00	5289.92		
5310	39.84			5290.00	5329.84		
5510	39.76			5490.00	5529.76		
5550	39.60			5530.08	5569.68		
5670	39.84			5650.00	5689.84		
5710	39.68			5690.08	5729.76		
5710 UNII-2C	34.92			5690.08	5725		
5710 UNII-3	4.76			5725	5729.76		
5755	39.84			5735.00	5774.84		
5795	39.76	5775.00	5814.76				
11ax80SISO	Ant4	5210	80.96	5169.52	5250.48		
		5290	80.96	5249.36	5330.32		
		5530	80.80	5489.52	5570.32		
		5610	80.80	5569.36	5650.16		
		5690	80.64	5649.52	5730.16		



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		5690 UNII-2C	75.48	5649.52	5725
		5690 UNII-3	5.16	5725	5730.16
		5775	80.80	5734.52	5815.32
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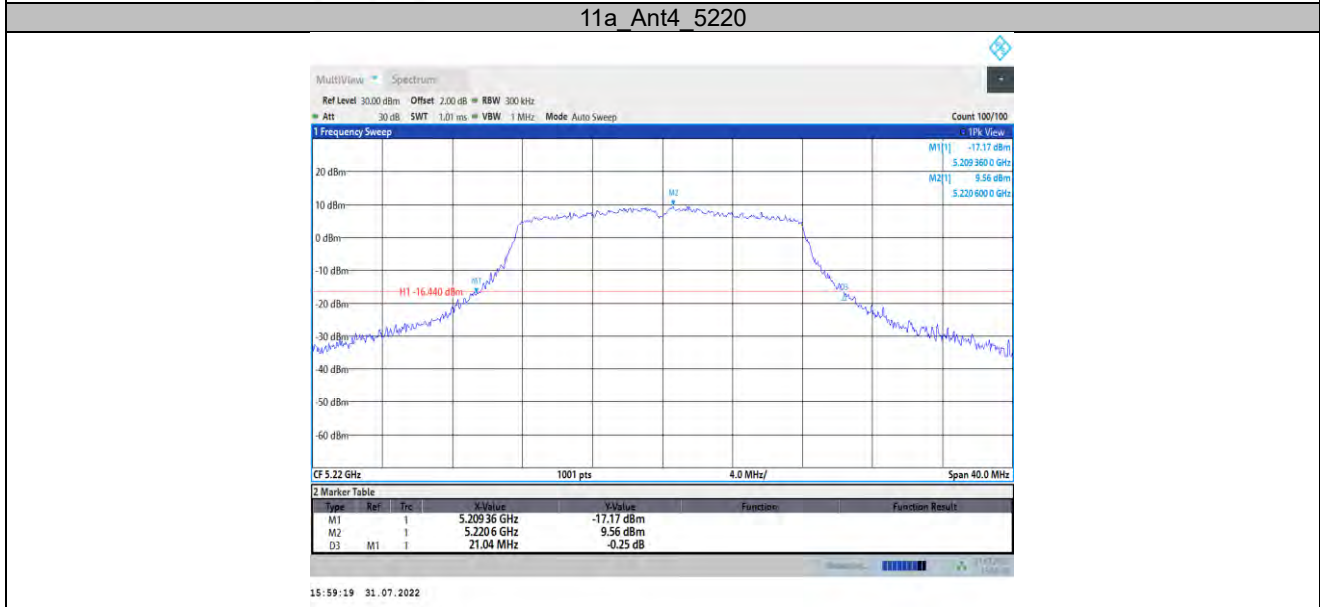
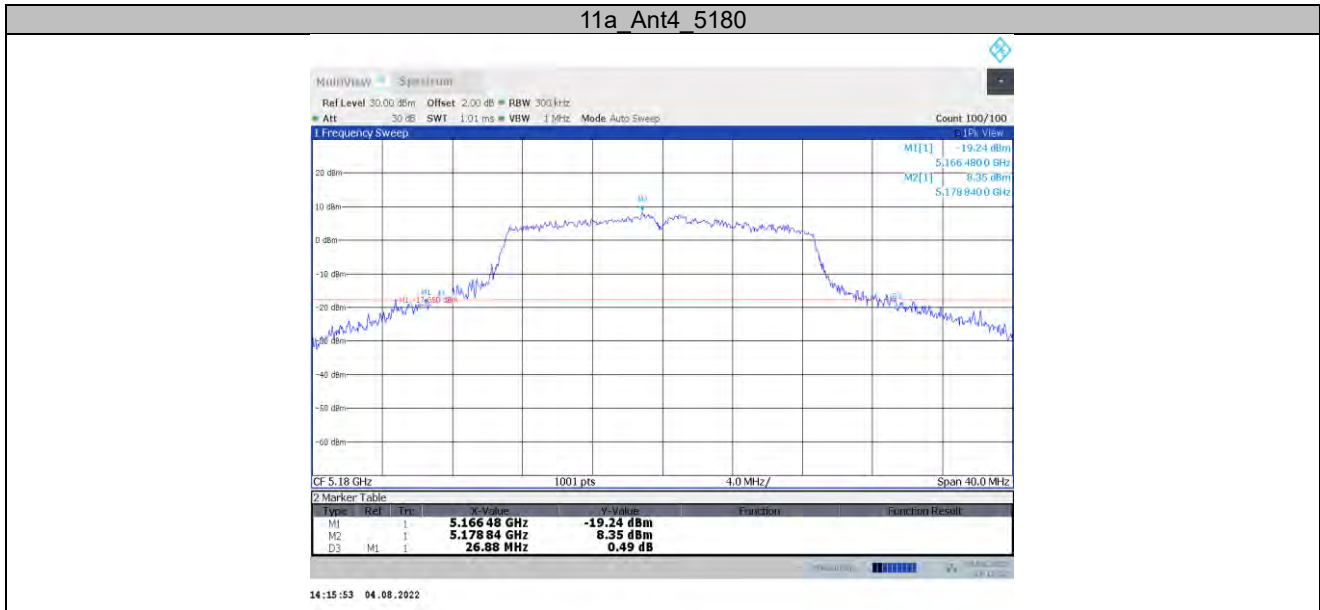


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Test Graphs

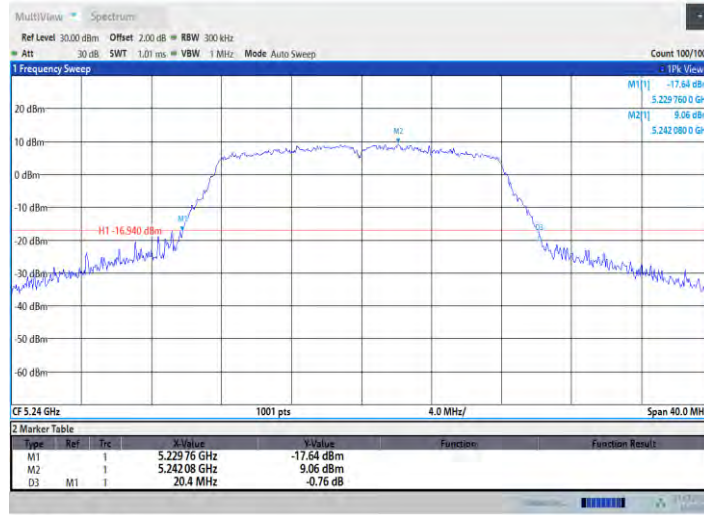


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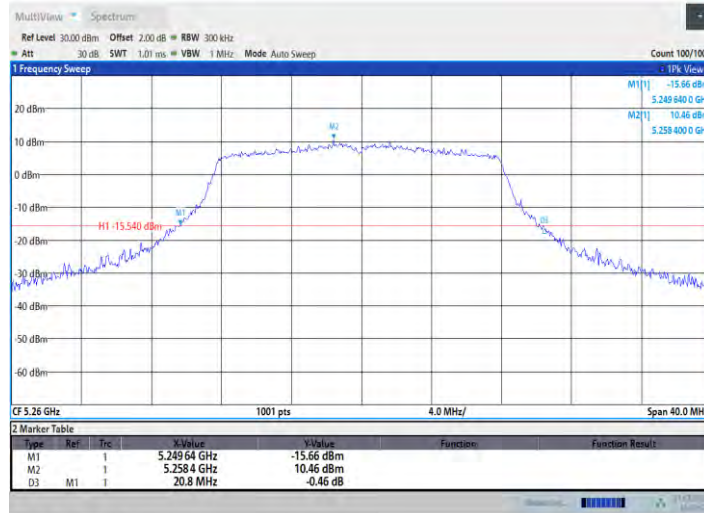
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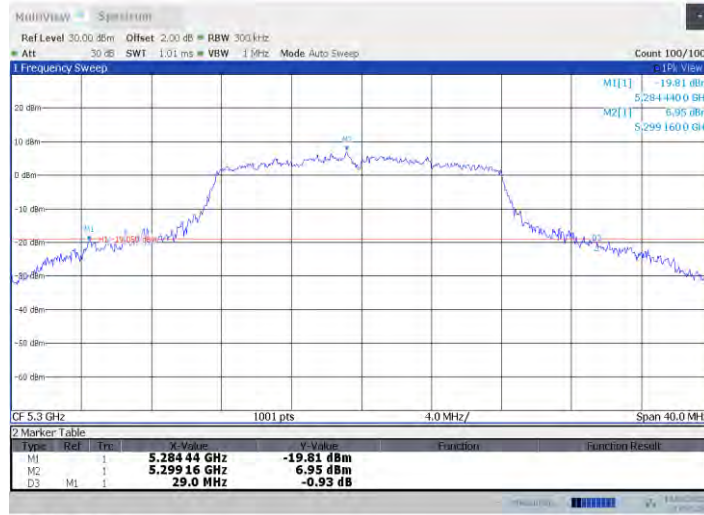


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11a_Ant4_5320



16:56:29 31.07.2022

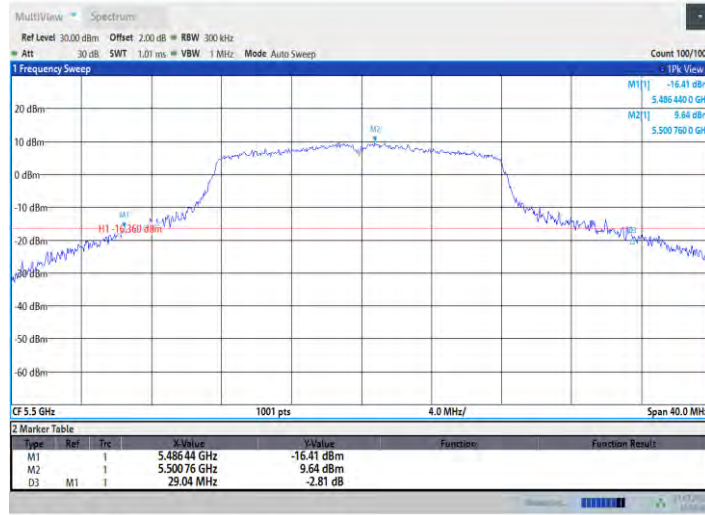


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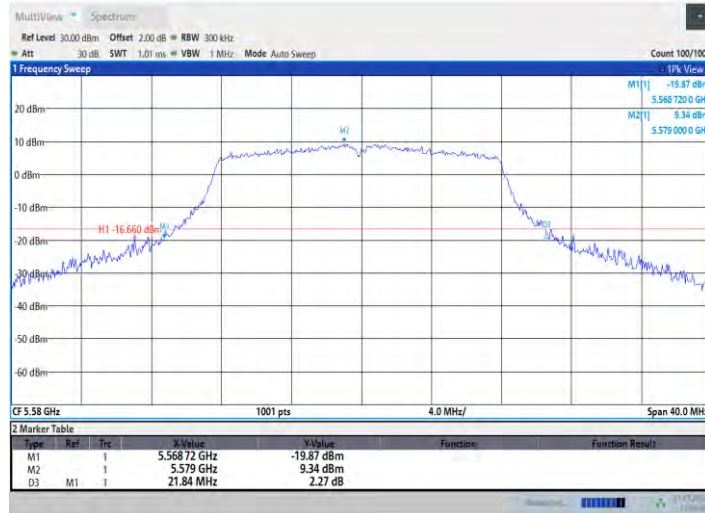
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11a Ant4 5500



16:59:07 31.07.2022

11a Ant4 5580



17:00:07 31.07.2022

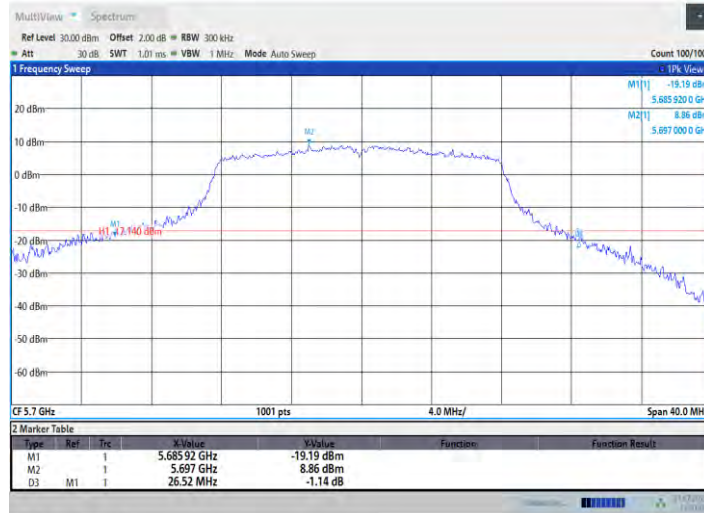


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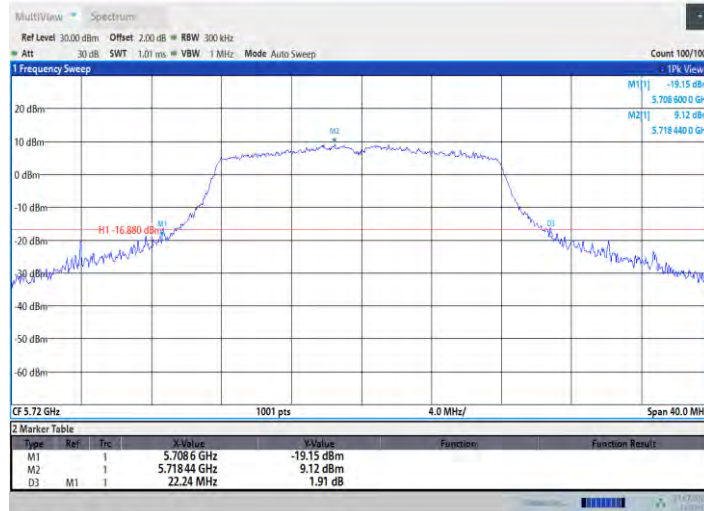
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11a_Ant4_5720



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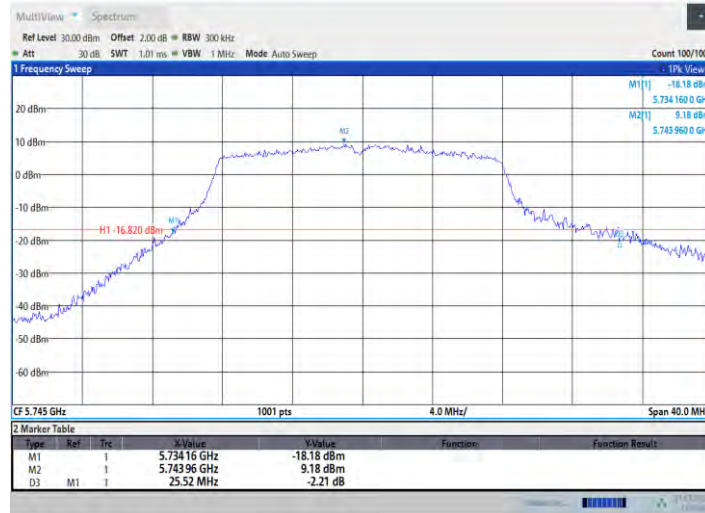


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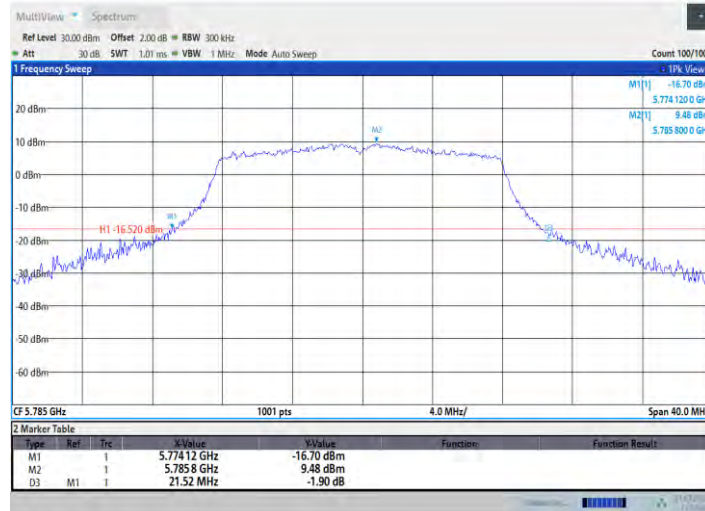
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11a_Ant4_5785



17:10:49 31.07.2022



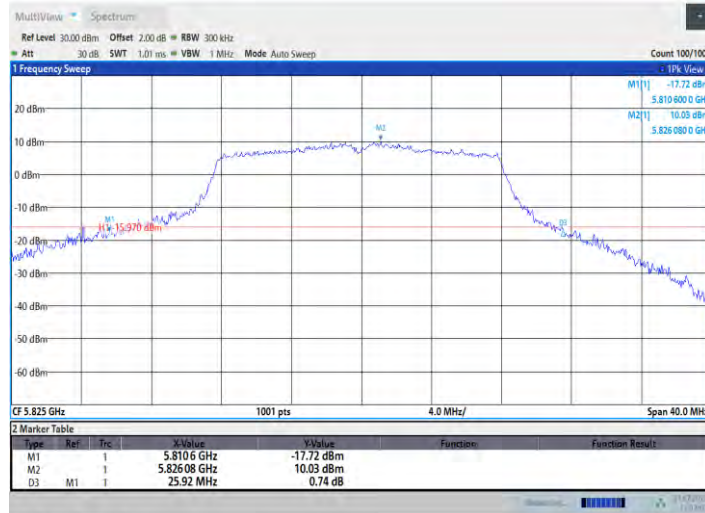
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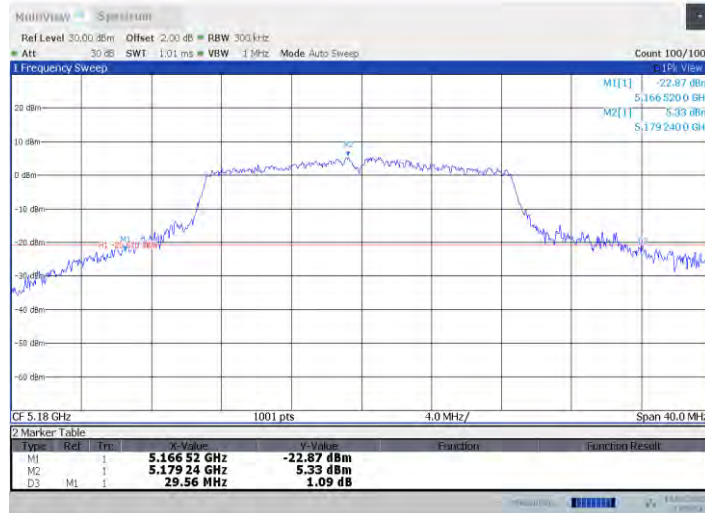
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11n20SISO_Ant4_5180



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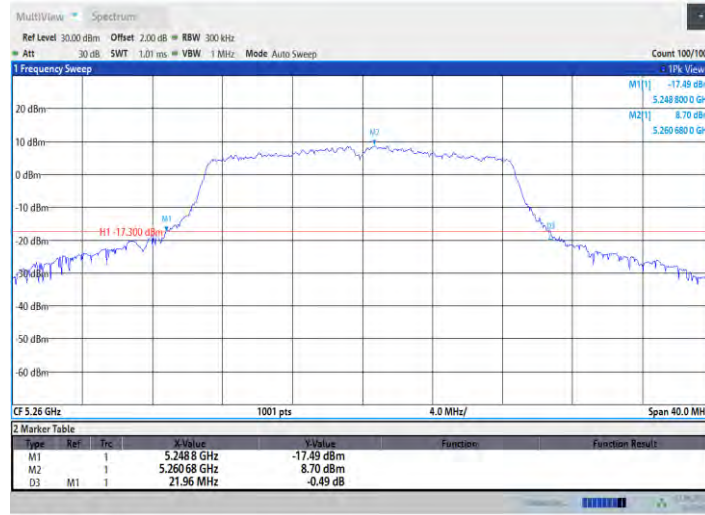


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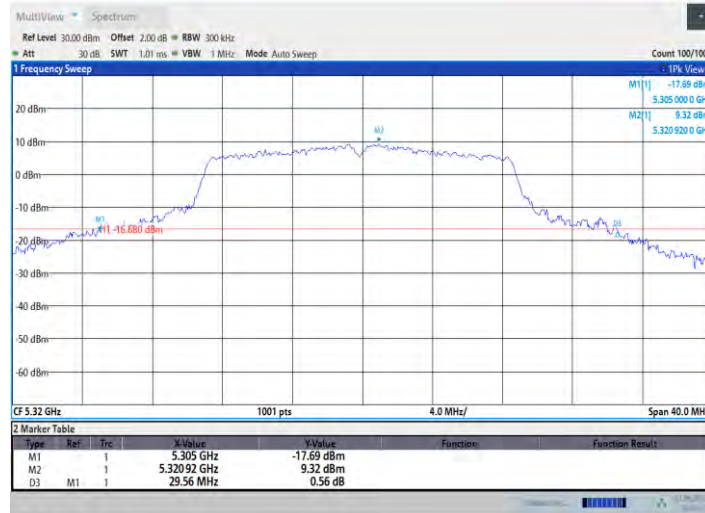


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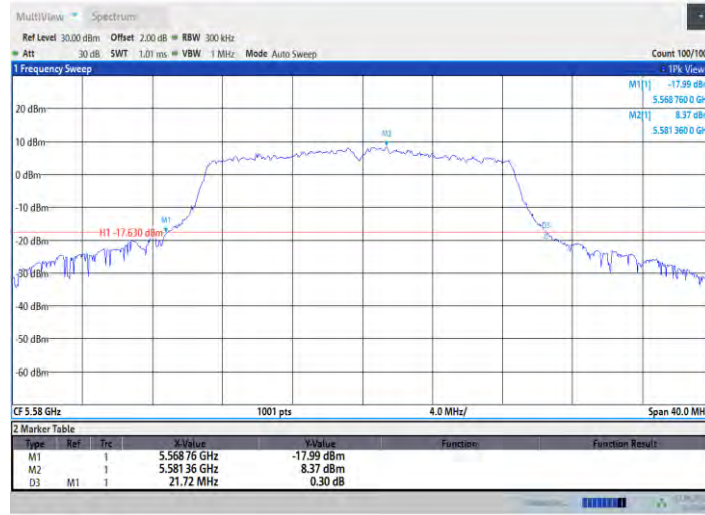


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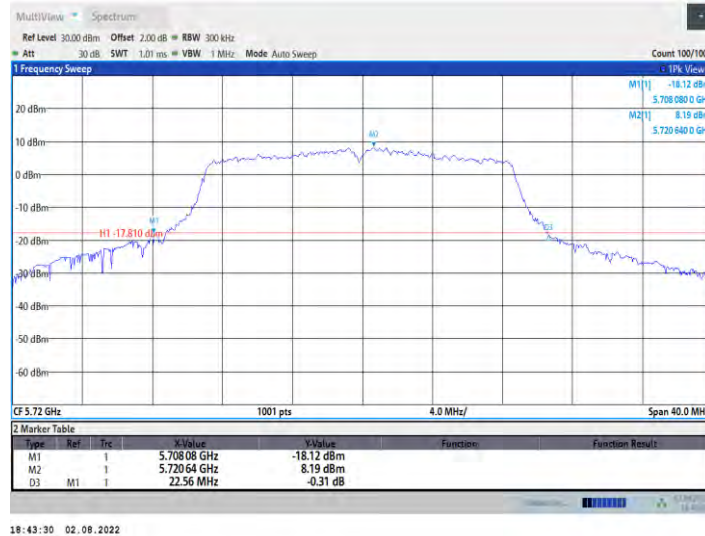
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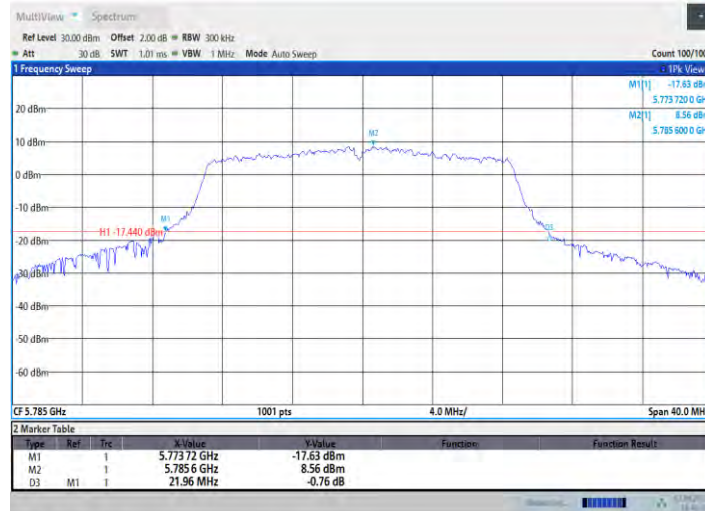


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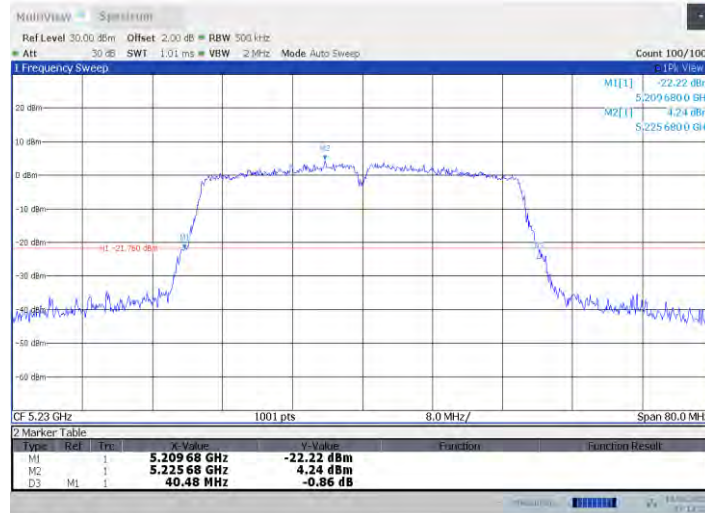
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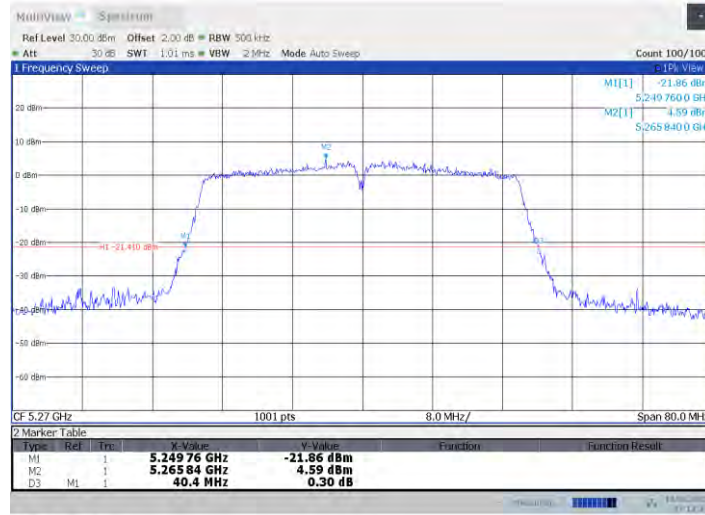
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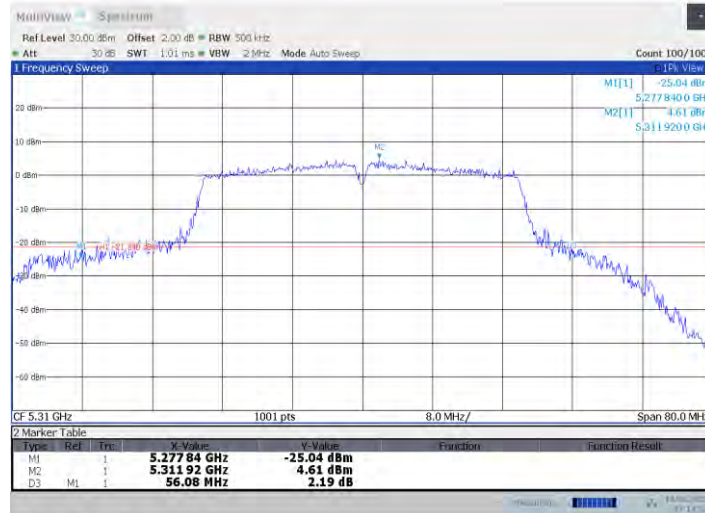
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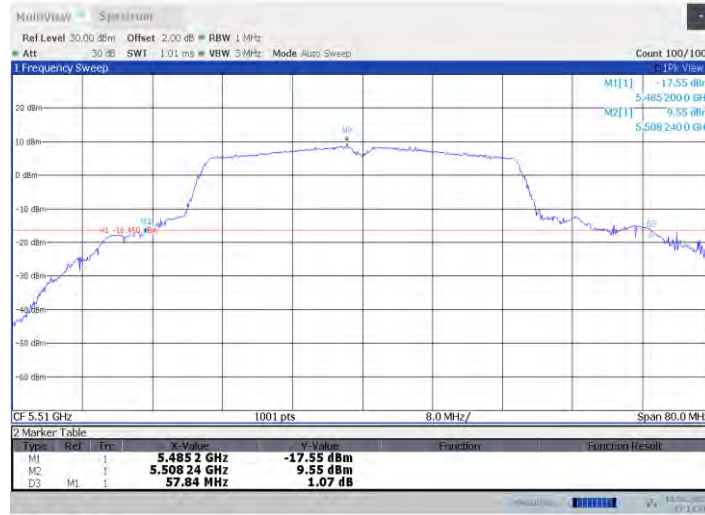


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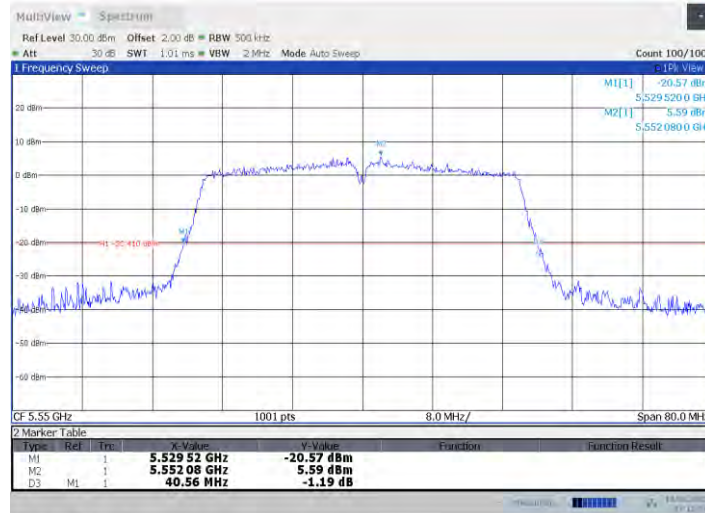
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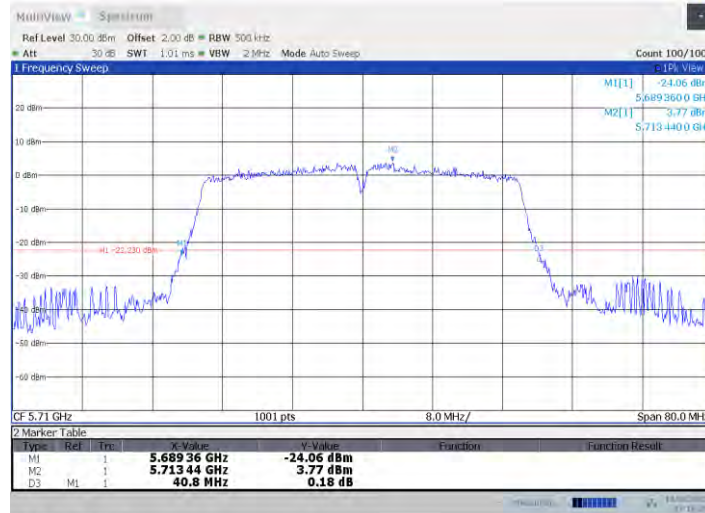
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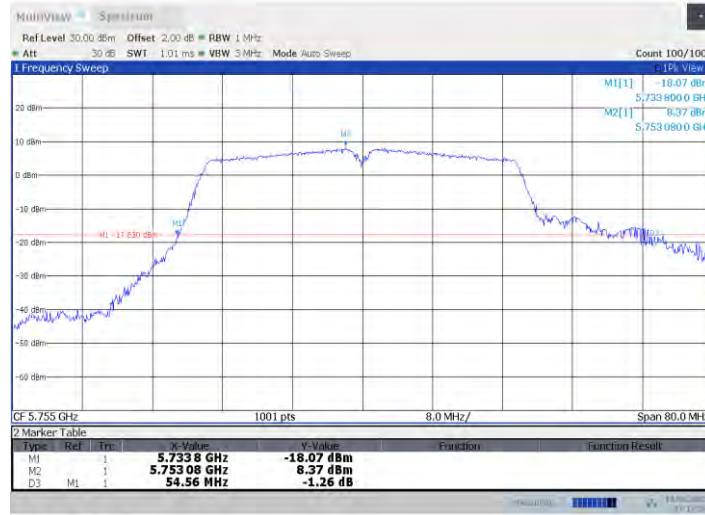
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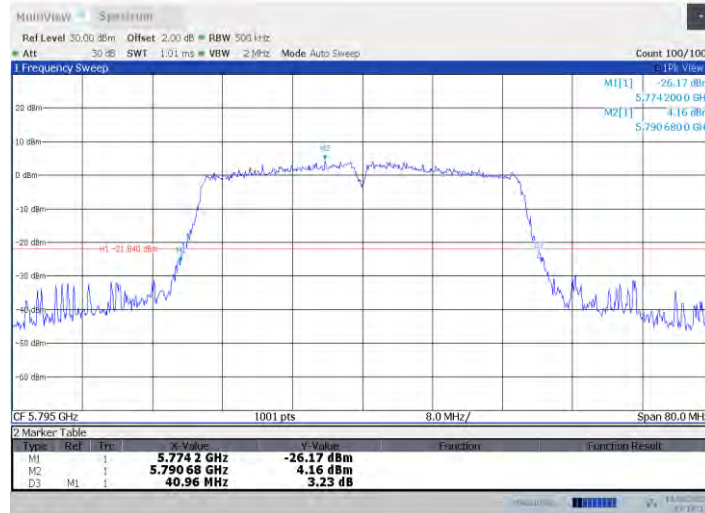
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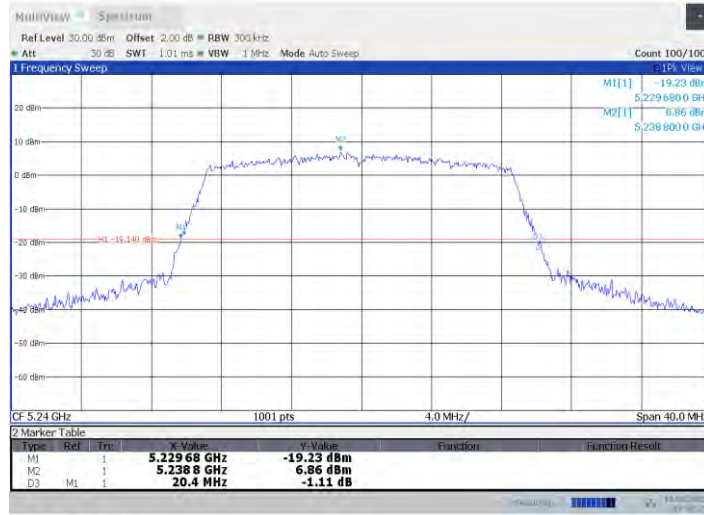


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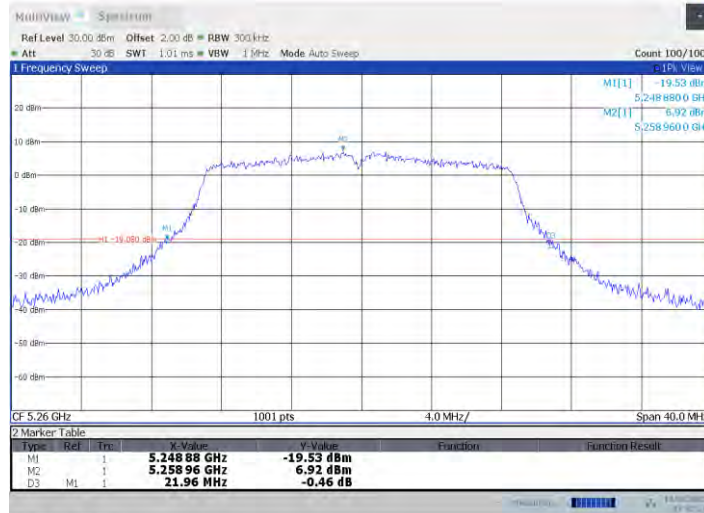
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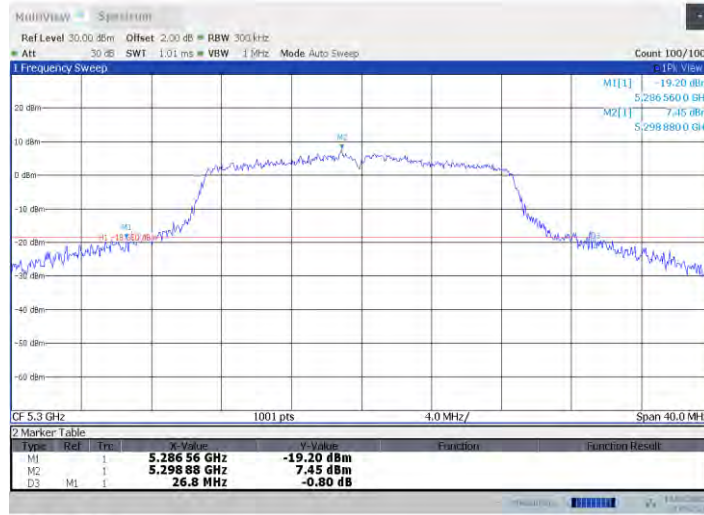
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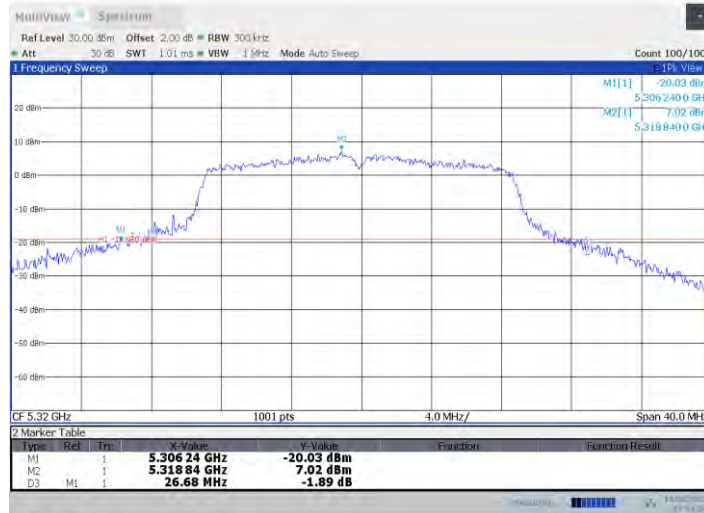
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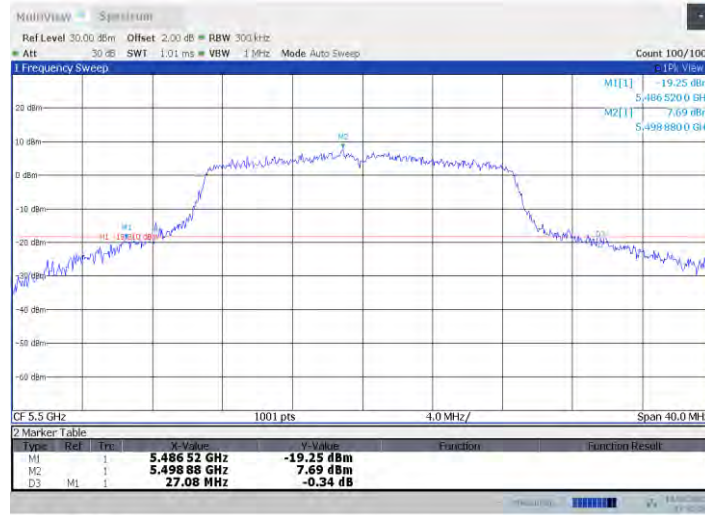


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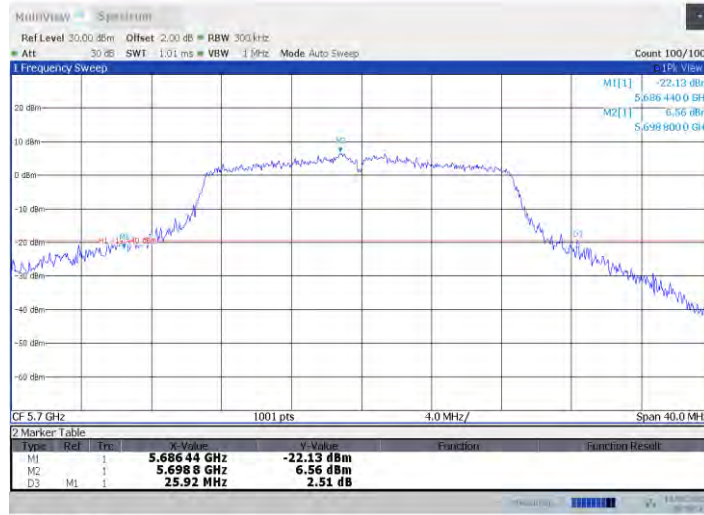
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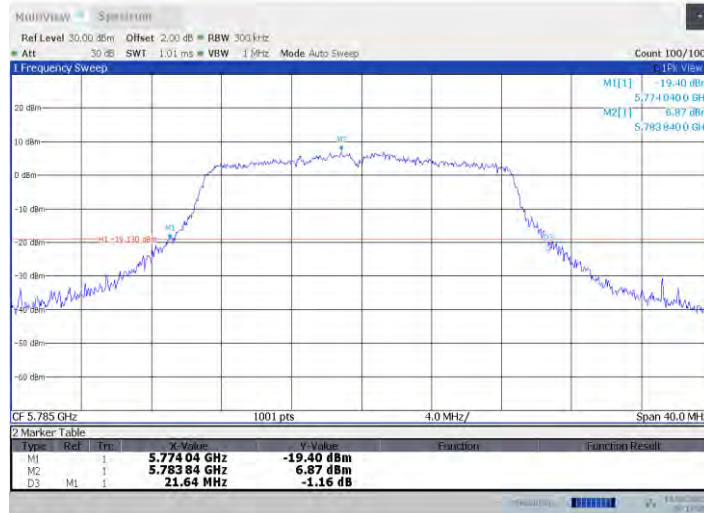
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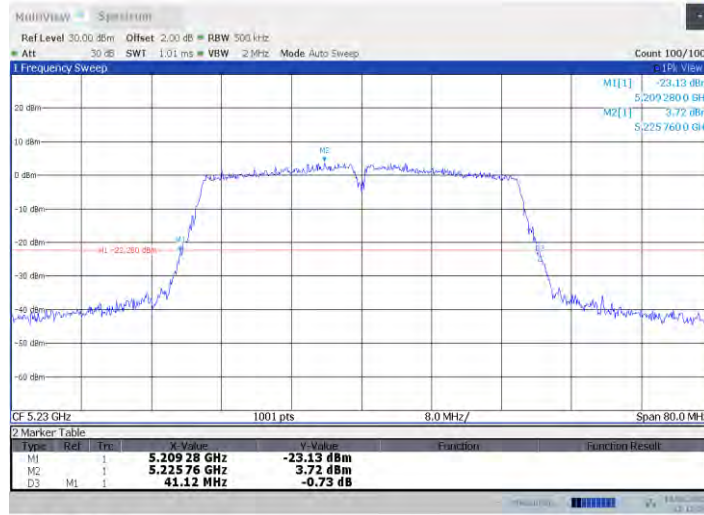


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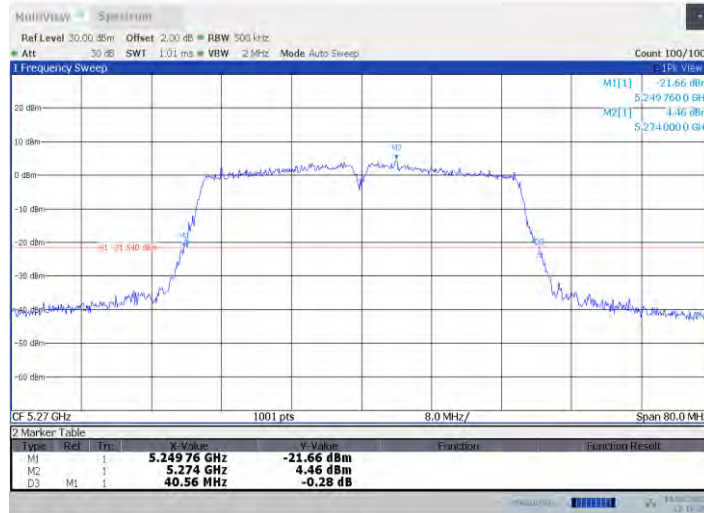
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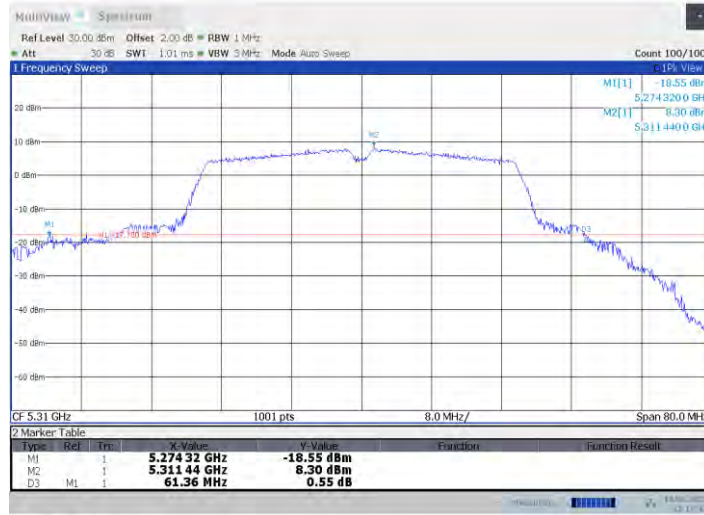


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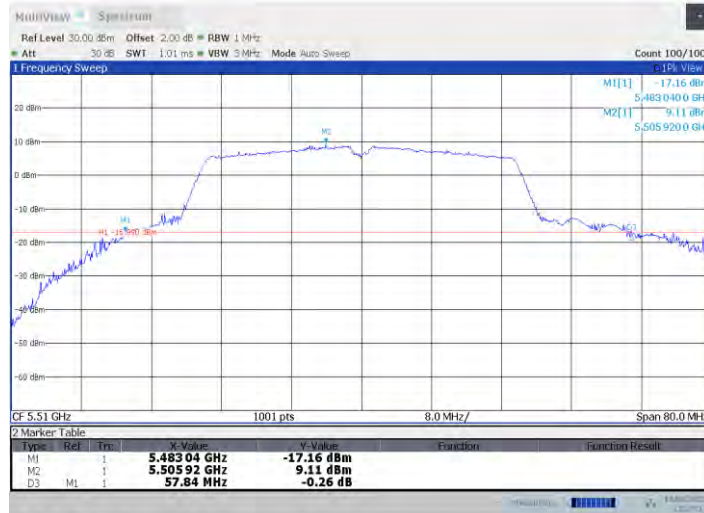
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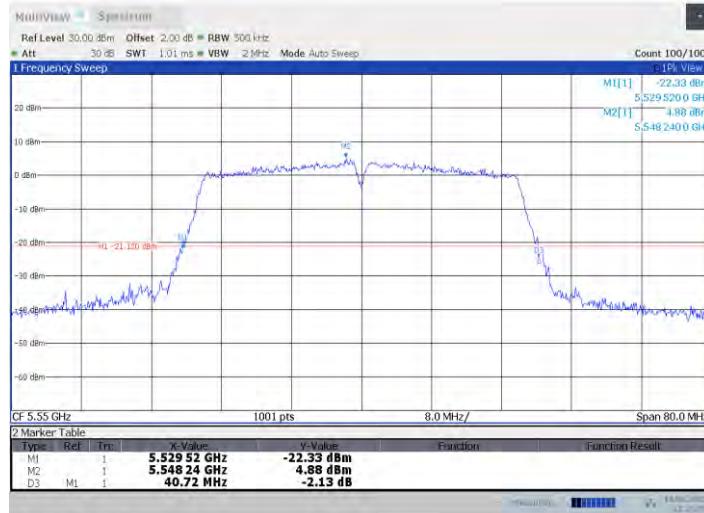


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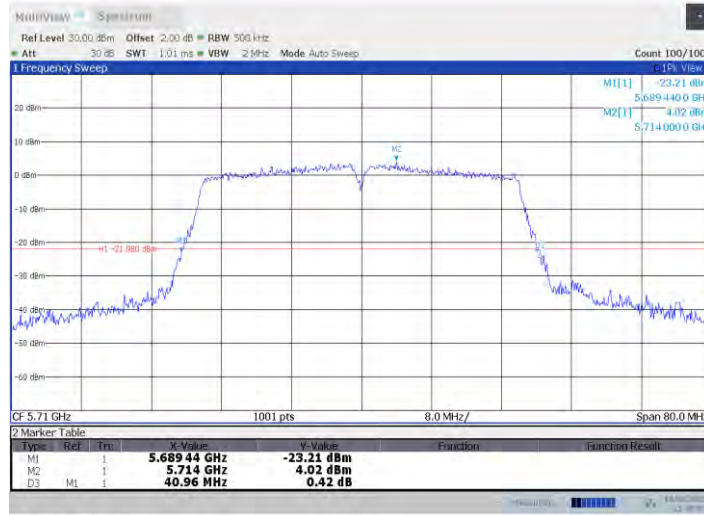


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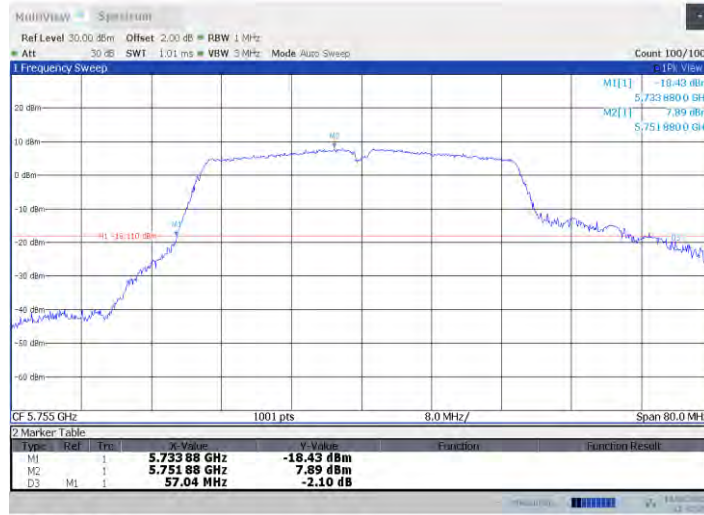
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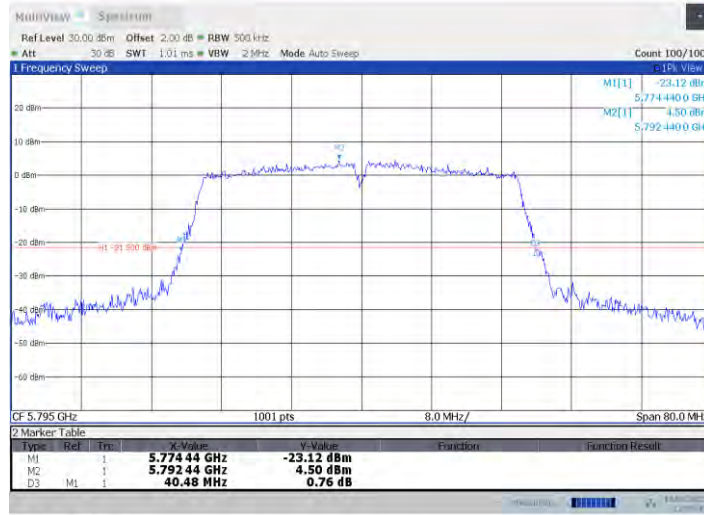


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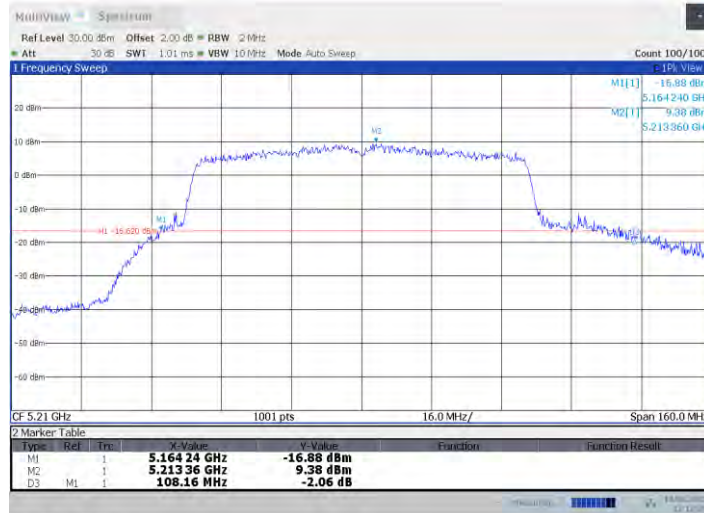
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12:24:21 10.08.2022

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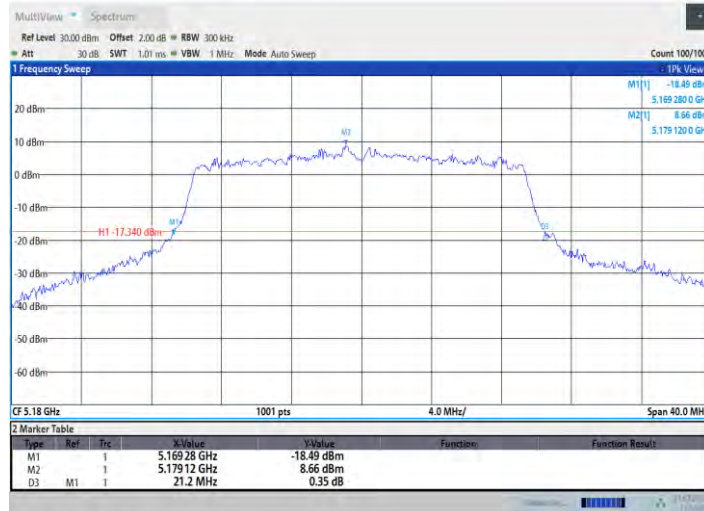
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13:40:08 10.08.2022

11ax20SISO Ant4 5180



17:56:47 31.07.2022

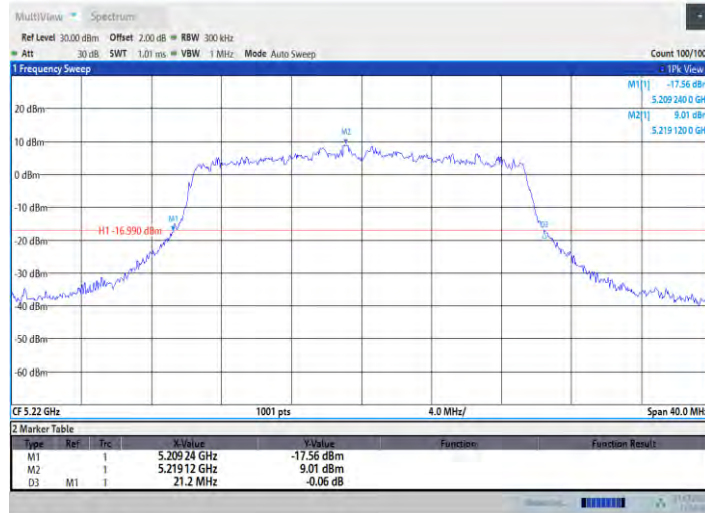


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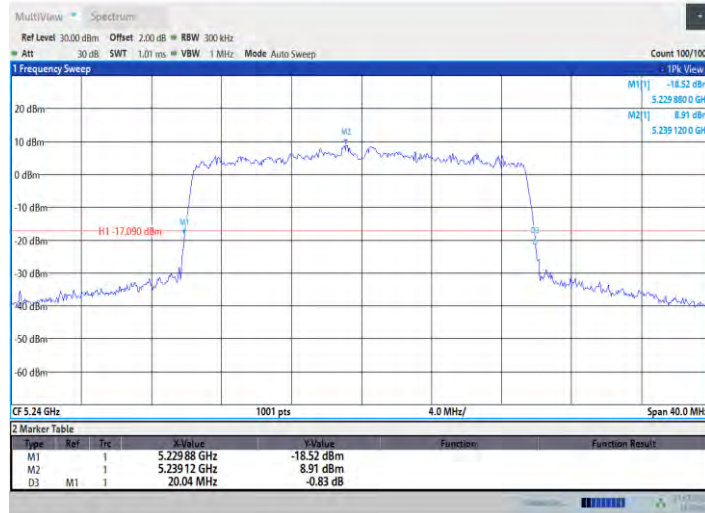
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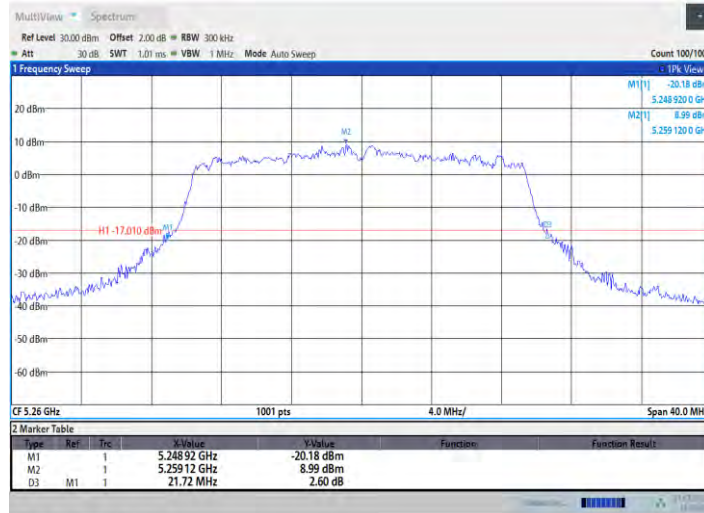


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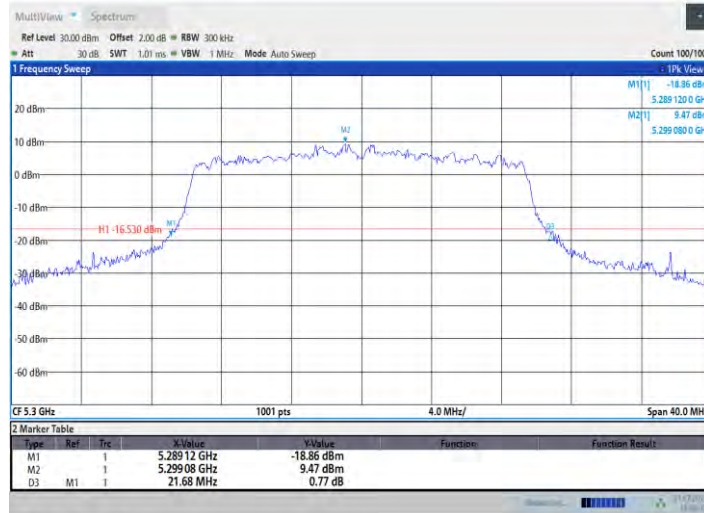
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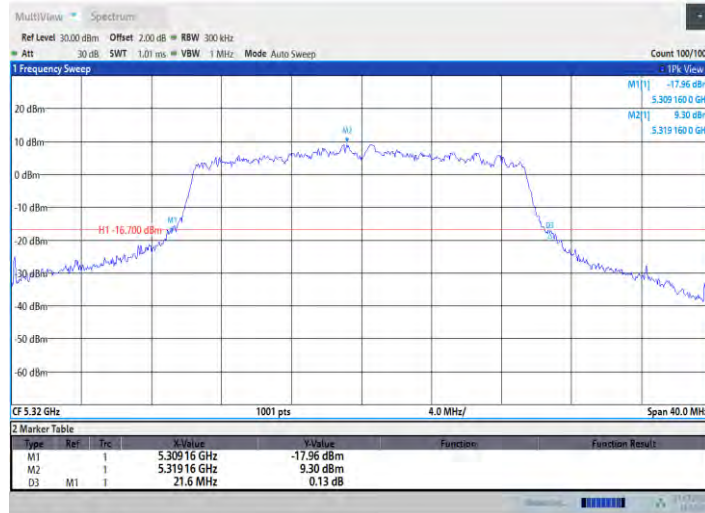


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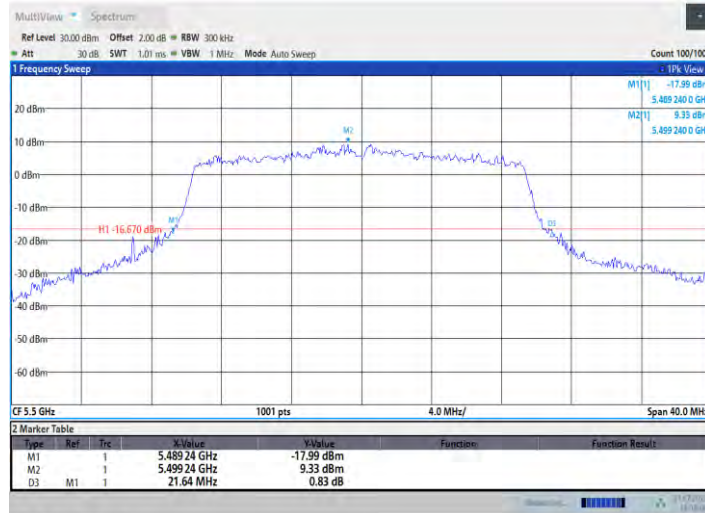
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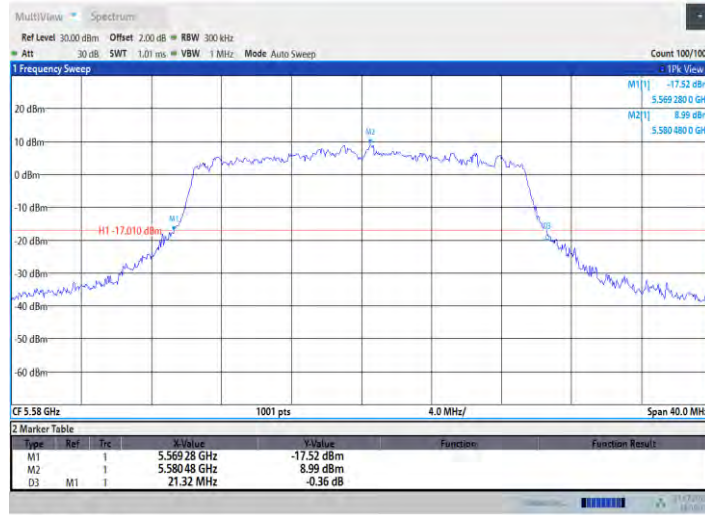


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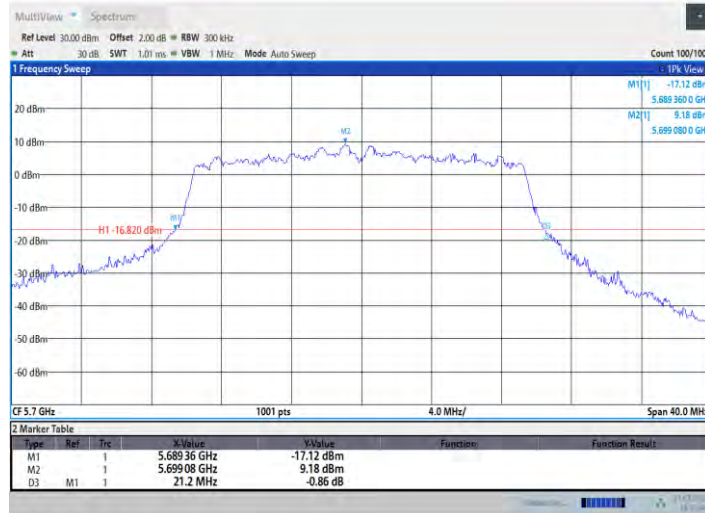
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18:19:14 31.07.2022

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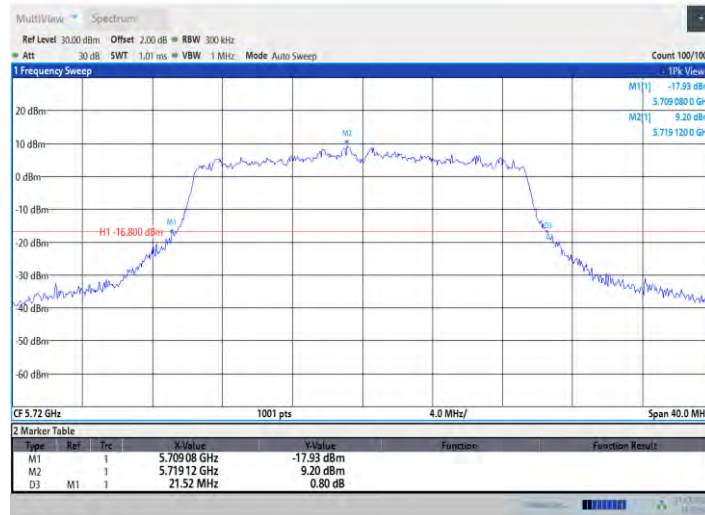


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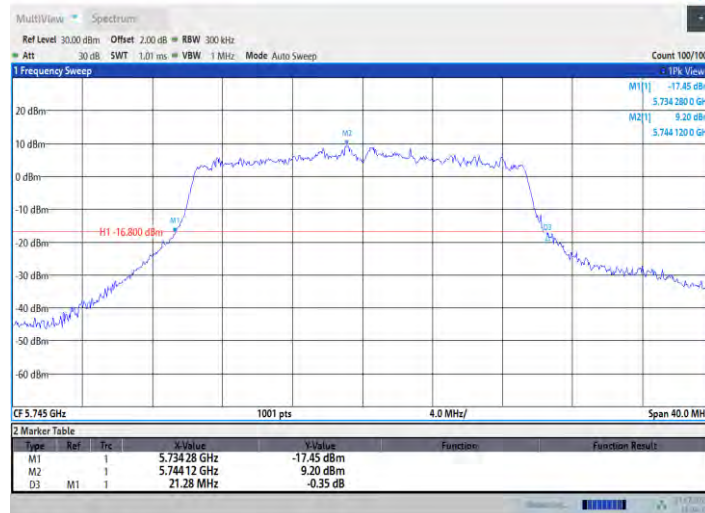
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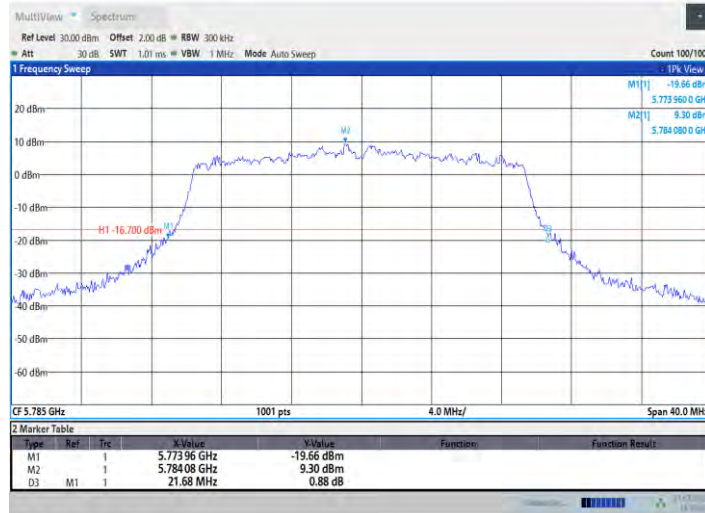


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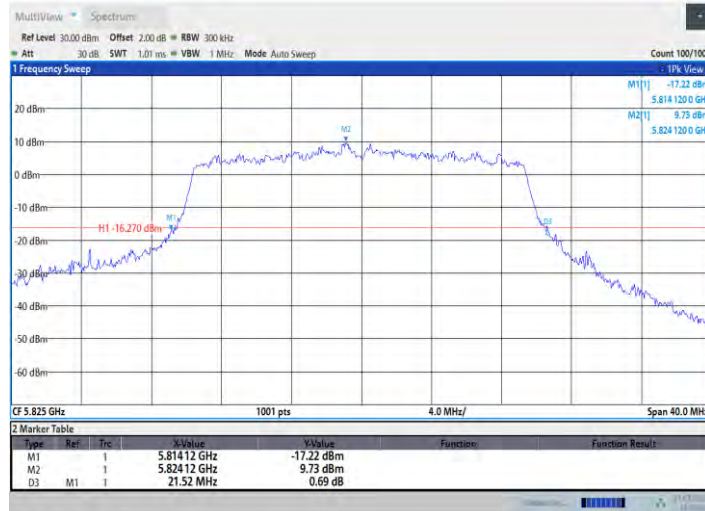
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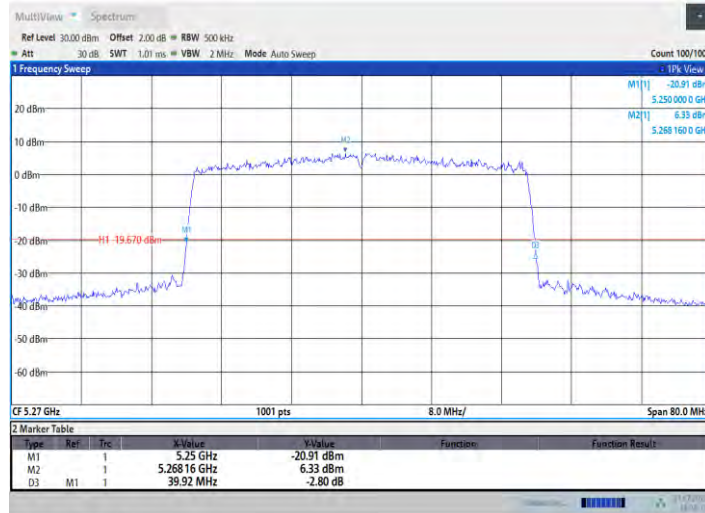


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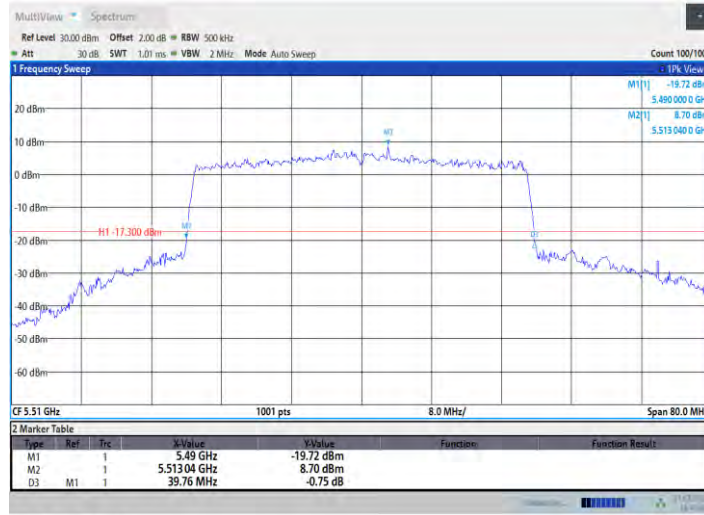


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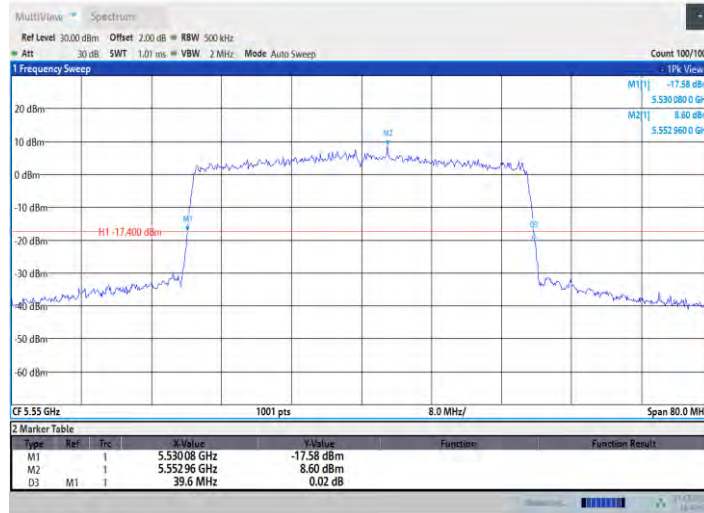
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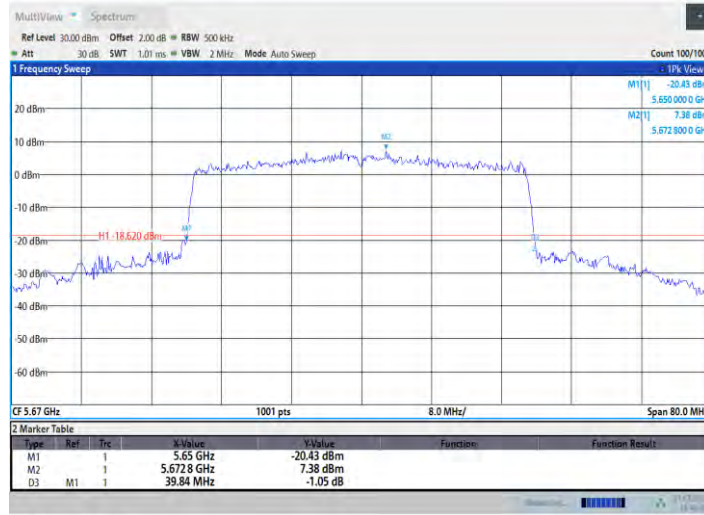


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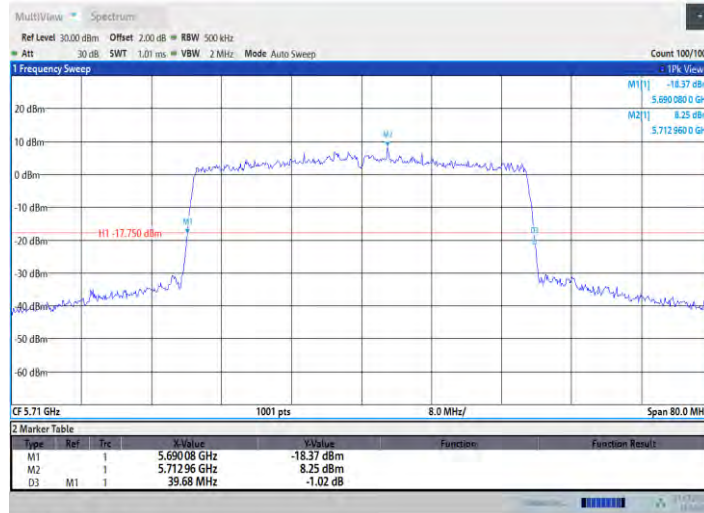
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18:53:40 31.07.2022

11ax40SISO Ant4 5795



18:55:16 31.07.2022

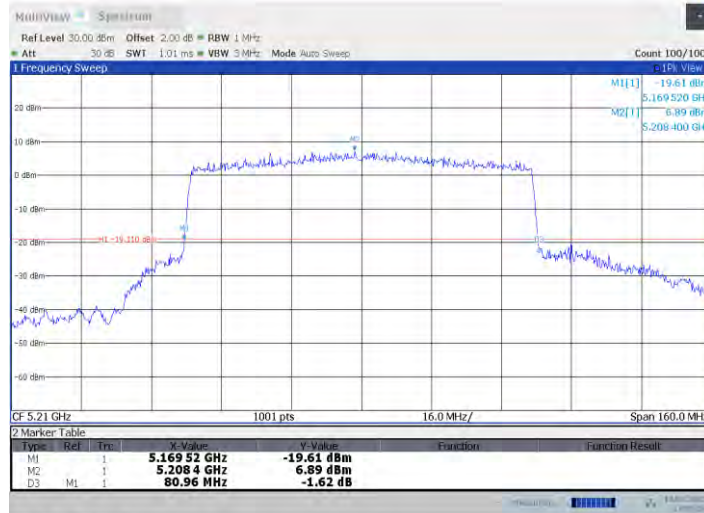


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11ax80SISO Ant4 5210



14:00:55 10.08.2022

11ax80SISO Ant4 5290



14:01:53 10.08.2022



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11ax80SISO Ant4 5530



14:02:44 10.08.2022

11ax80SISO Ant4 5610



14:03:33 10.08.2022



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14:04:22 10.08.2022

11ax80SISO Ant4 5775



14:06:10 10.08.2022



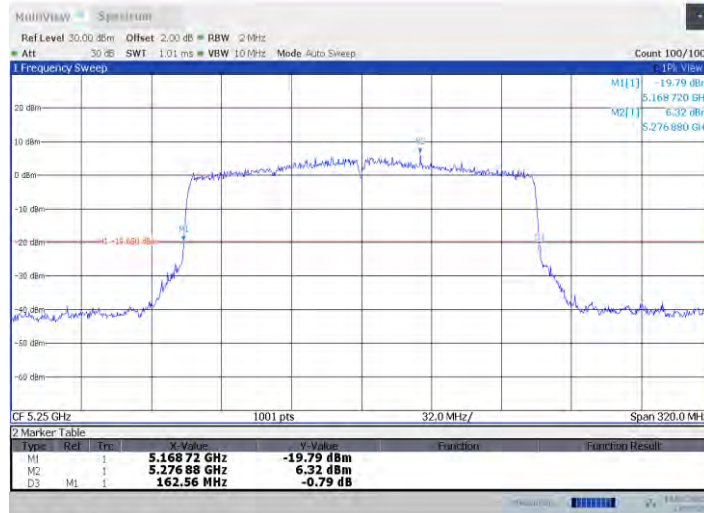
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11ax160SISO Ant4 5250



14:09:27 10.08.2022

11ax160SISO Ant4 5570



14:10:02 10.08.2022



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**Occupied channel bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant4	5180	17.706	5171.112	5188.818	Reporting only
		5220	17.064	5211.337	5228.401	
		5240	17.236	5231.277	5248.513	
		5260	17.075	5251.341	5268.415	
		5300	17.815	5290.968	5308.783	
		5320	17.725	5310.949	5328.673	
		5500	17.733	5491.125	5508.858	
		5580	17.104	5571.313	5588.417	
		5700	17.453	5691.012	5708.465	
		5720	17.114	5711.297	5728.411	
		5720_UNII-2C	13.703	5711.297	5725	
		5720_UNII-3	3.411	5725	5728.411	
		5745	17.41	5736.265	5753.675	
		5785	17.111	5776.295	5793.406	
5825	17.437	5816.025	5833.462			
11n20SISO	Ant4	5180	19.144	5170.558	5189.701	Reporting only
		5220	18.076	5210.812	5228.888	
		5240	18.144	5230.782	5248.925	
		5260	18.08	5250.798	5268.878	
		5300	19.217	5290.368	5309.585	
		5320	18.9	5310.330	5329.229	
		5500	18.966	5490.557	5509.523	
		5580	18.063	5570.800	5588.863	
		5700	18.571	5690.405	5708.977	
		5720	18.113	5710.775	5728.888	
		5720_UNII-2C	14.225	5710.775	5725	
		5720_UNII-3	3.888	5725	5728.888	
		5745	18.61	5735.813	5754.423	
		5785	18.078	5775.792	5793.870	
5825	18.648	5815.313	5833.962			
11n40SISO	Ant4	5190	37.033	5171.508	5208.541	Reporting only
		5230	36.361	5211.702	5248.064	
		5270	36.369	5251.687	5288.056	
		5310	37.127	5291.105	5328.232	
		5510	37.106	5491.428	5528.535	
		5550	36.423	5531.654	5568.078	
		5670	37.526	5651.084	5688.609	
		5710	36.597	5691.601	5728.198	
		5710_UNII-2C	33.399	5691.601	5725	
		5710_UNII-3	3.198	5725	5728.198	
		5755	37.136	5736.596	5773.732	
		5795	36.482	5776.616	5813.099	
		5180	18.499	5170.635	5189.133	
		5220	18.069	5210.829	5228.898	
5240	18.015	5230.868	5248.883			
5260	18.097	5250.820	5268.916			
5300	18.461	5290.675	5309.136			
5320	18.455	5310.576	5329.031			
5500	18.468	5490.661	5509.130			
5580	18.091	5570.777	5588.869			
5700	18.38	5690.586	5708.966			
5720	18.18	5710.807	5728.987			



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		5720 UNII-2C	14.193	5710.807	5725
		5720 UNII-3	3.987	5725	5728.987
		5745	18.312	5735.765	5754.077
		5785	18.096	5775.794	5793.891
		5825	18.37	5815.570	5833.941
11ac40SISO	Ant4	5190	37.158	5171.400	5208.558
		5230	36.429	5211.695	5248.125
		5270	36.453	5251.714	5288.167
		5310	37.089	5291.256	5328.345
		5510	37.155	5491.427	5528.582
		5550	36.441	5531.684	5568.125
		5670	37.533	5651.135	5688.667
		5710	36.446	5691.672	5728.117
		5710 UNII-2C	33.328	5691.672	5725
		5710 UNII-3	3.117	5725	5728.117
		5755	37.11	5736.563	5773.673
		5795	36.457	5776.710	5813.166
		11ac80SISO	Ant4	5210	75.977
5290	76.082			5251.717	5327.799
5530	75.911			5492.068	5567.979
5610	75.315			5572.226	5647.541
5690	75.379			5652.220	5727.599
5690 UNII-2C	72.78			5652.220	5725
5690 UNII-3	2.599			5725	5727.599
5775	75.362			5737.284	5812.646
11ax20SISO	Ant4	5180	18.989	5170.410	5189.399
		5220	18.962	5210.422	5229.383
		5240	18.81	5230.473	5249.283
		5260	18.958	5250.408	5269.366
		5300	18.947	5290.400	5309.347
		5320	18.951	5310.406	5329.357
		5500	18.948	5490.399	5509.347
		5580	18.977	5570.389	5589.366
		5700	18.966	5690.389	5709.355
		5720	18.952	5710.393	5729.345
		5720 UNII-2C	14.607	5710.393	5725
		5720 UNII-3	4.345	5725	5729.345
		5745	18.968	5735.400	5754.367
		5785	18.959	5775.393	5794.353
		5825	18.973	5815.382	5834.355
		11ax40SISO	Ant4	5190	37.83
5230	37.697			5211.051	5248.748
5270	37.716			5251.026	5288.742
5310	37.748			5291.046	5328.794
5510	37.81			5490.959	5528.769
5550	37.719			5531.029	5568.747
5670	37.803			5650.999	5688.802
5710	37.759			5690.974	5728.733
5710 UNII-2C	34.026			5690.974	5725
5710 UNII-3	3.733			5725	5728.733
5755	37.799			5736.007	5773.806
5795	37.685			5776.044	5813.729
11ax80SISO	Ant4	5210	77.147	5171.465	5248.613
		5290	77.162	5251.285	5328.447
		5530	77.103	5491.344	5568.447
		5610	77.086	5571.321	5648.406
		5690	77.156	5651.365	5728.521



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Rev.: 01

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11ax160SISO	Ant4	5690 UNII-2C	73.635	5651.365	5725
		5690 UNII-3	3.521	5725	5728.521
		5775	77.119	5736.475	5813.594
		5250	156.064	5172.092	5328.156
		5570	156.09	5491.722	5647.812

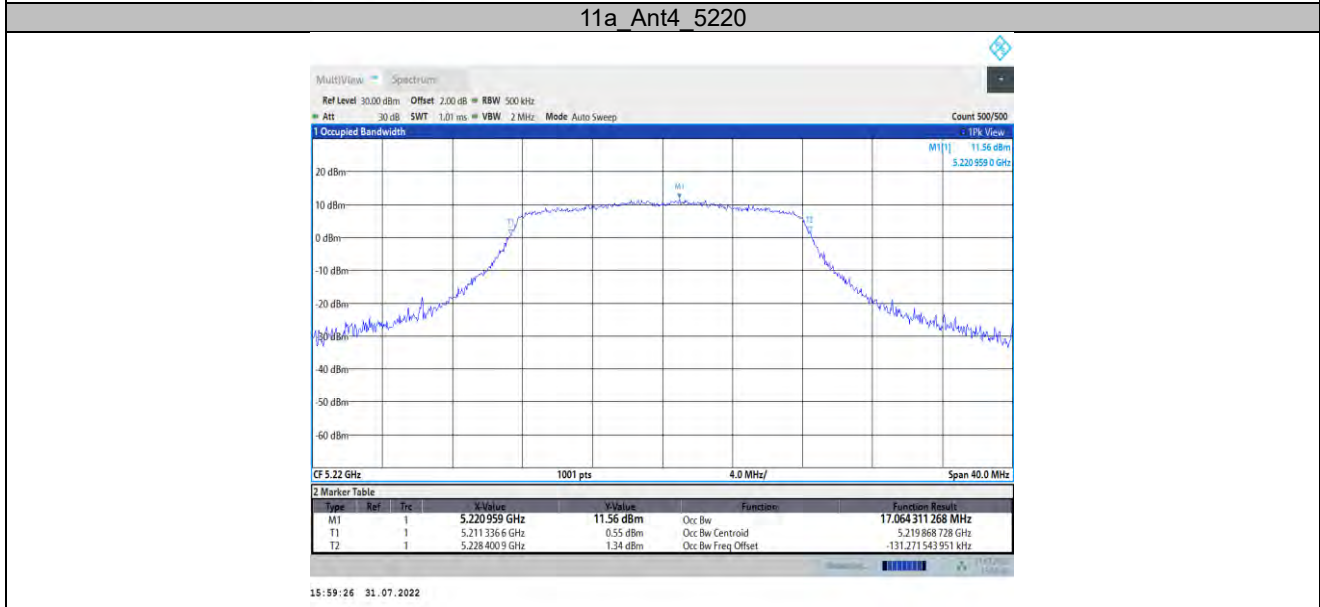
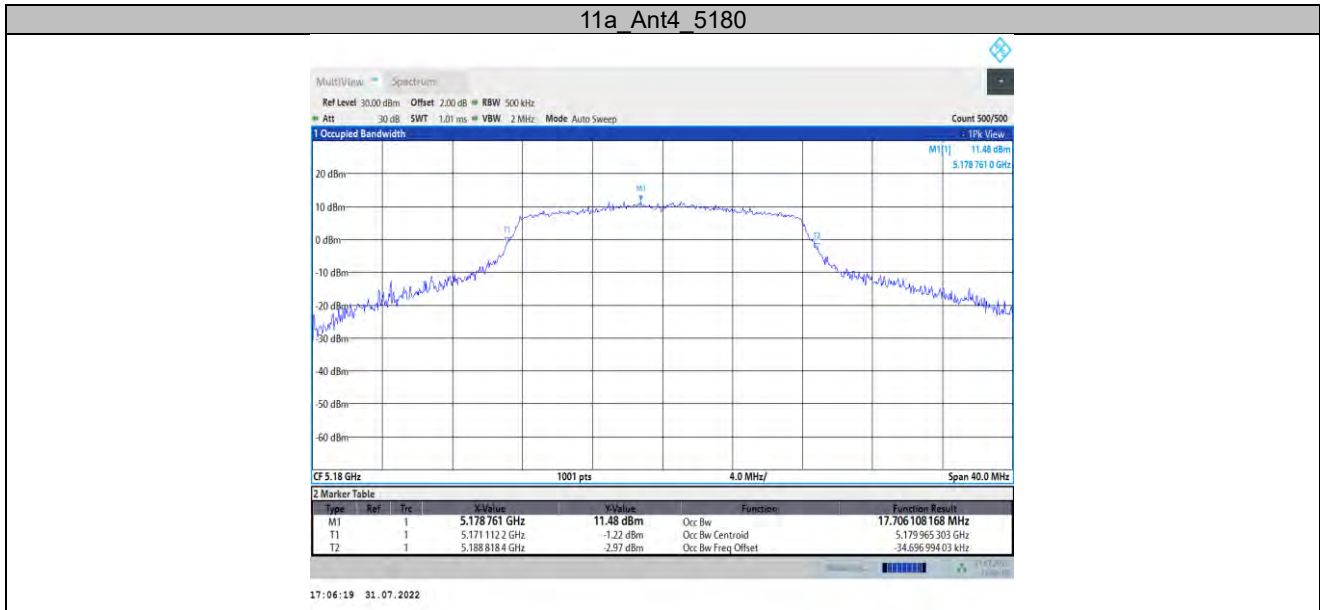


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Test Graphs

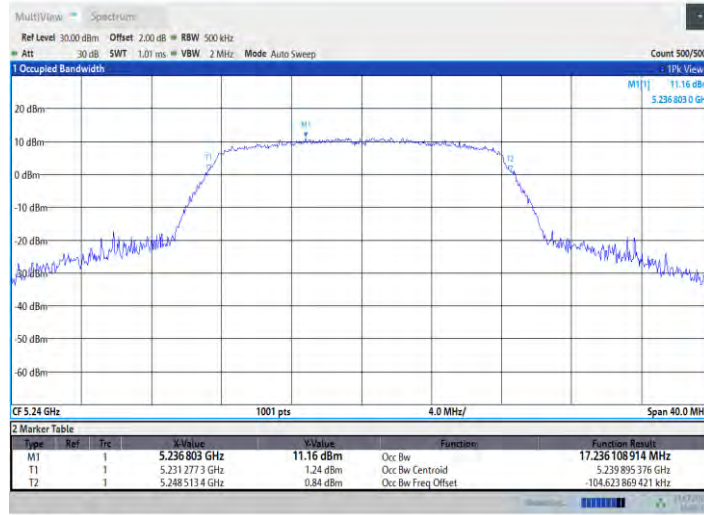


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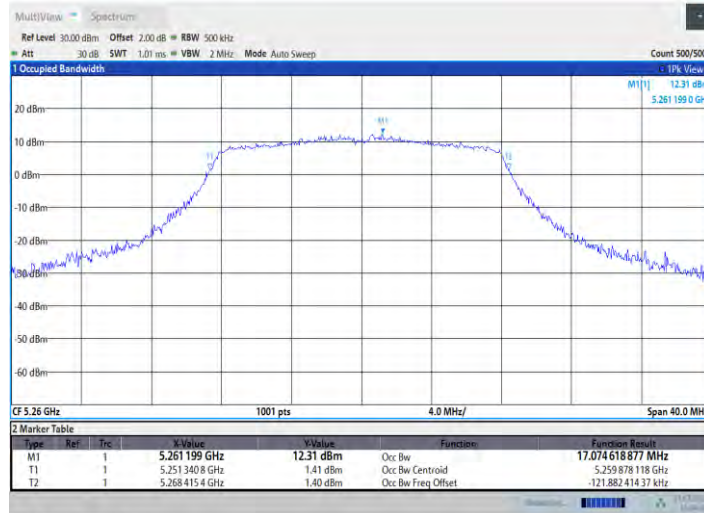
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11a_Ant4_5240



16:00:17 31.07.2022

11a_Ant4_5260



16:04:05 31.07.2022

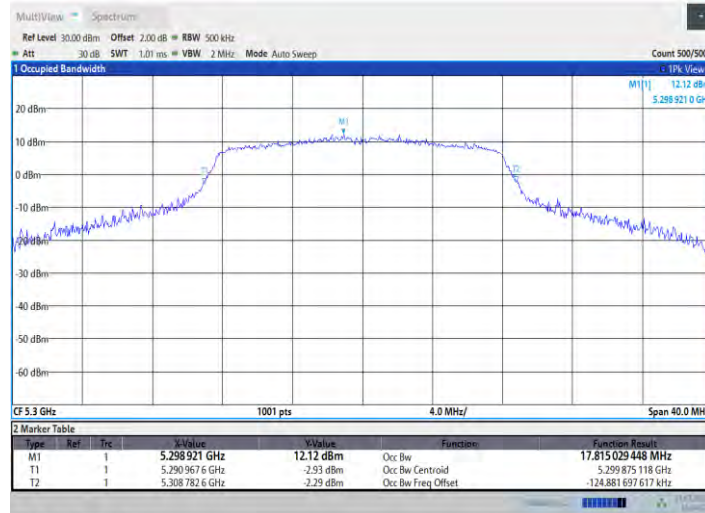


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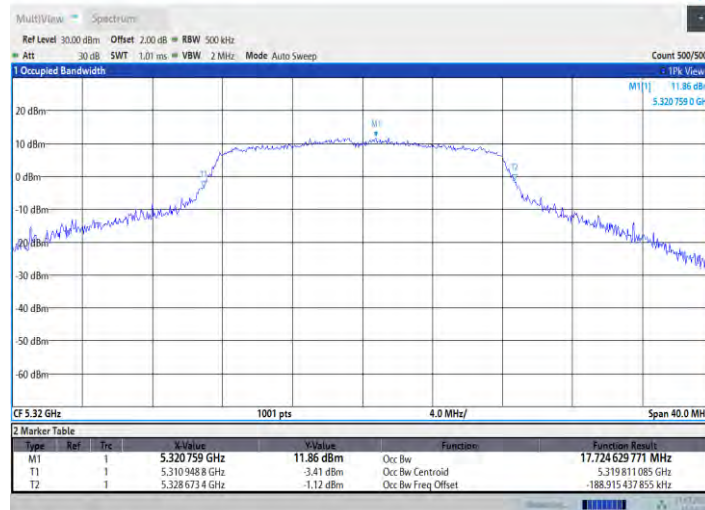
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11a_Ant4_5300



16:04:59 31.07.2022

11a_Ant4_5320



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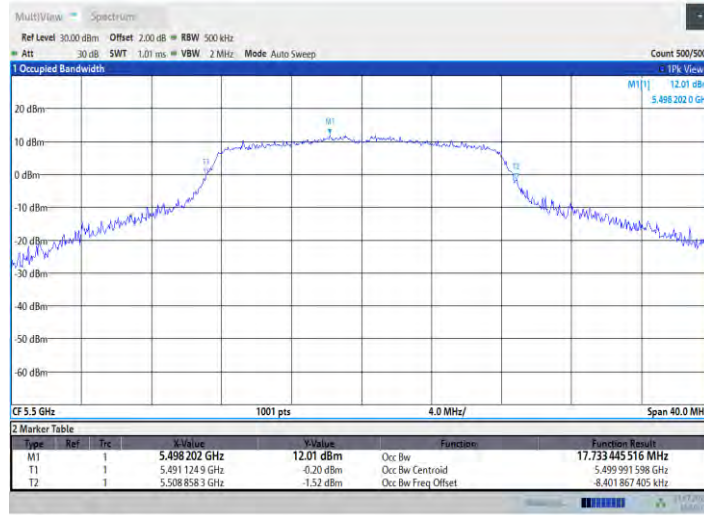


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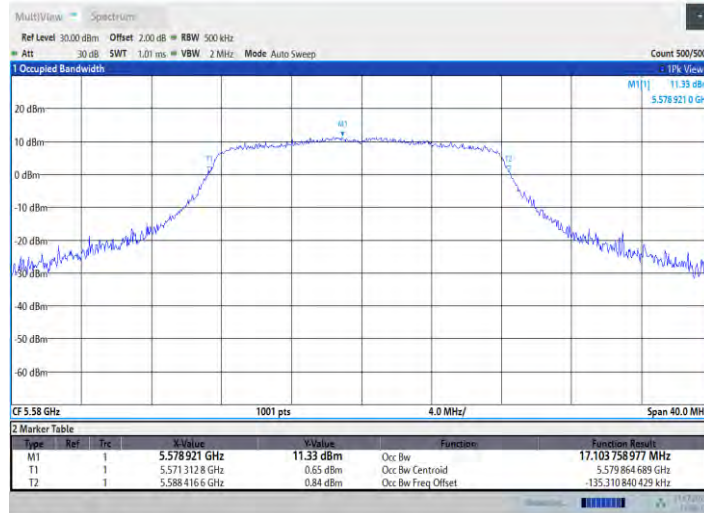
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11a_Ant4_5580



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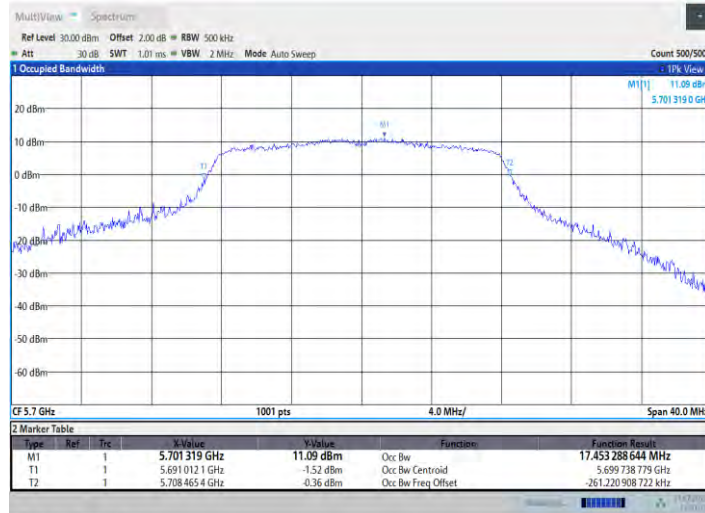


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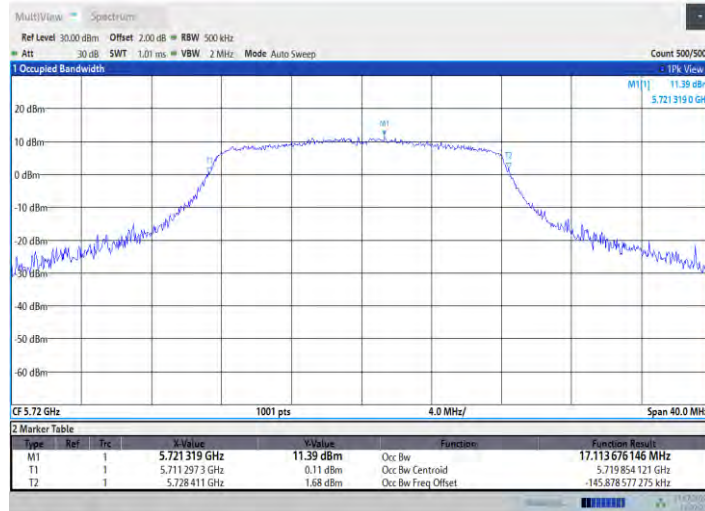
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11a_Ant4_5720



17:02:22 31.07.2022

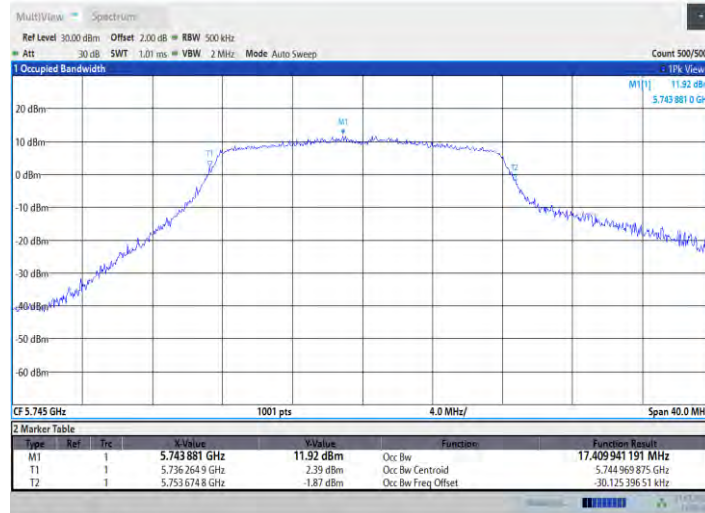


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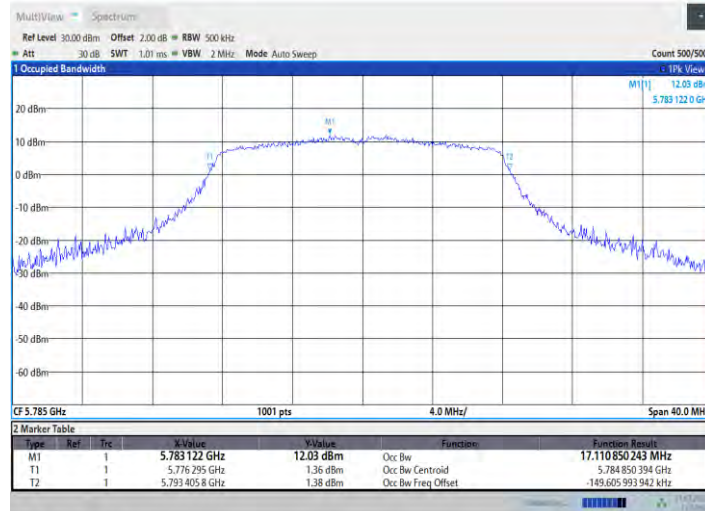
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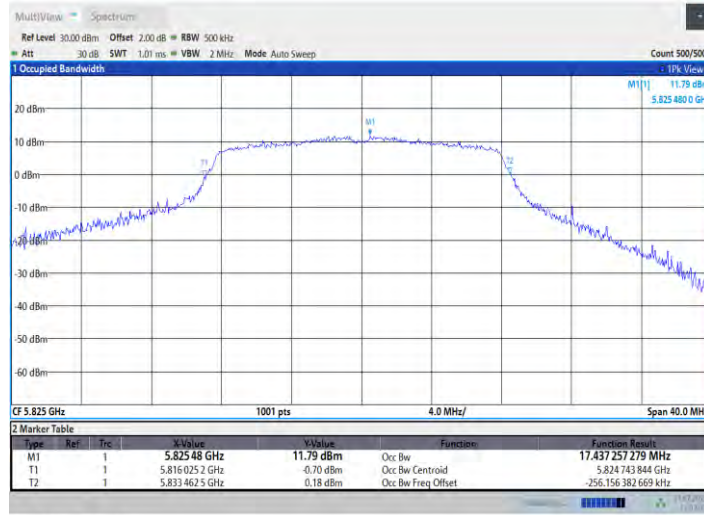


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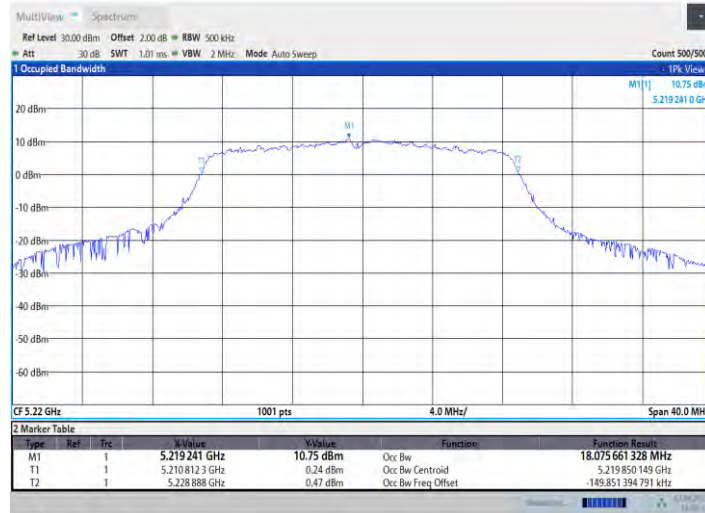


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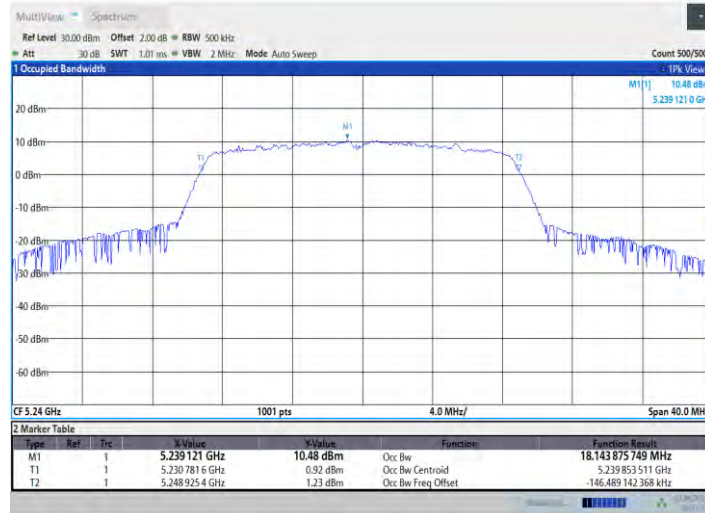
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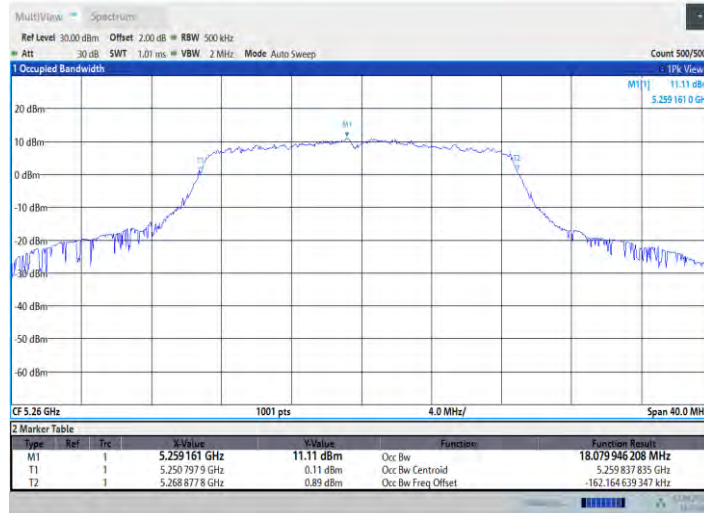


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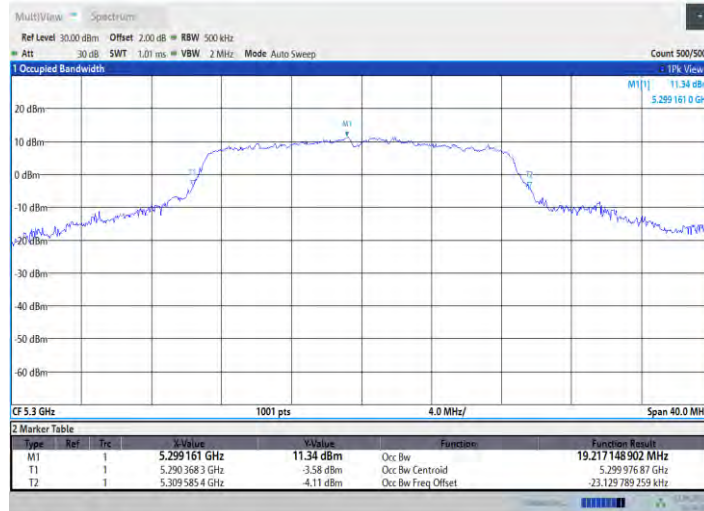
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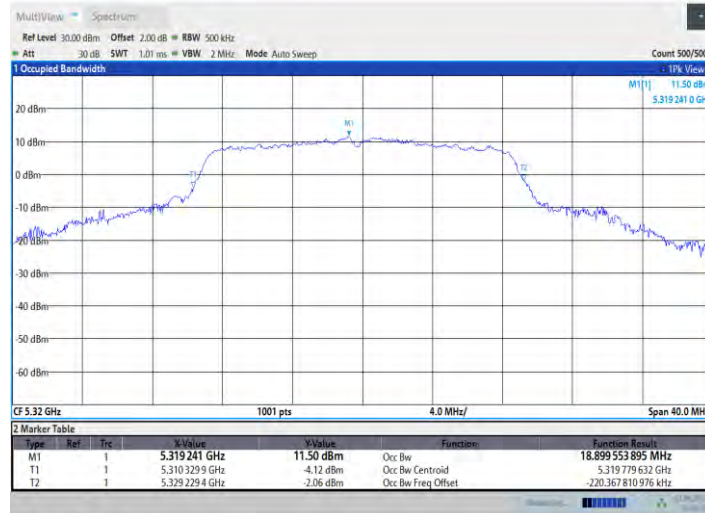


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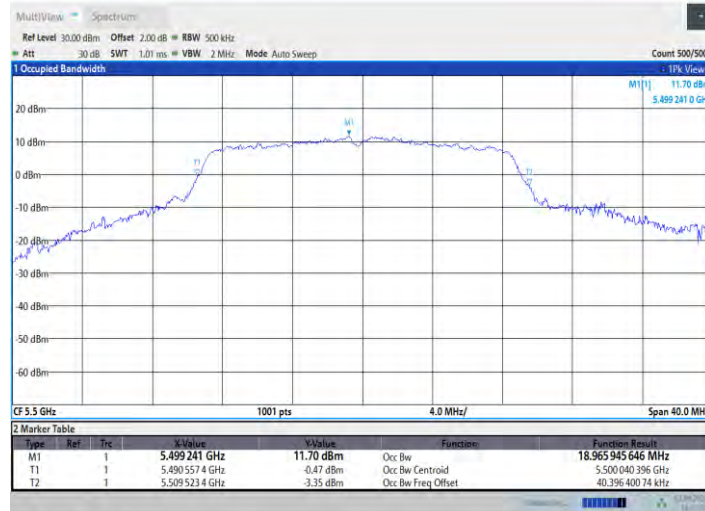
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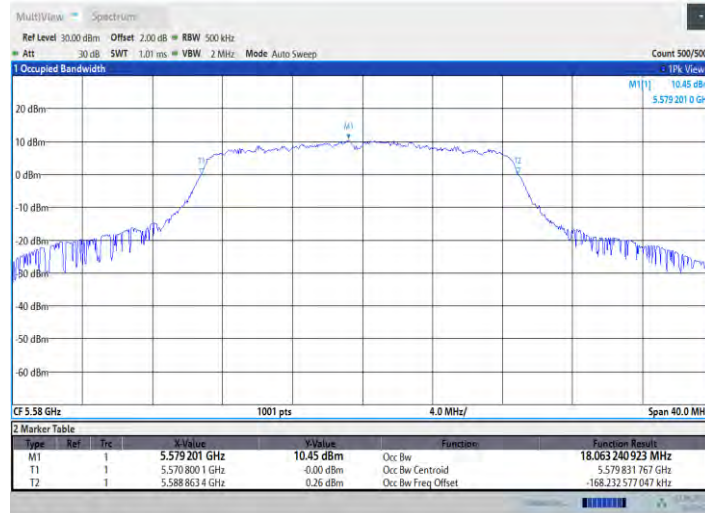


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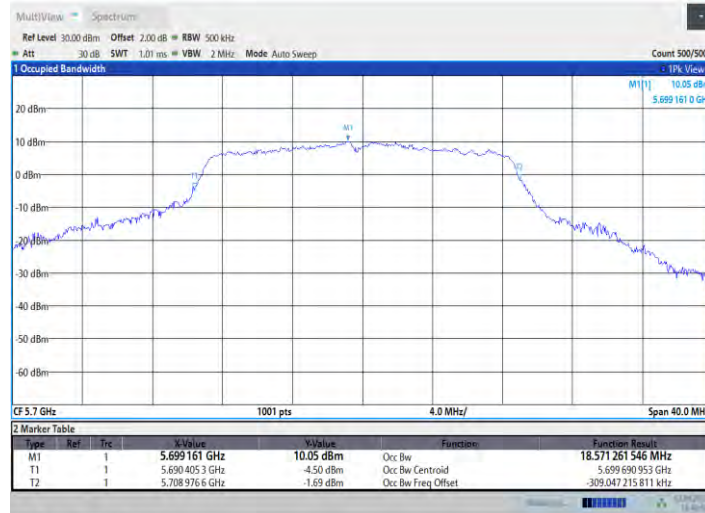
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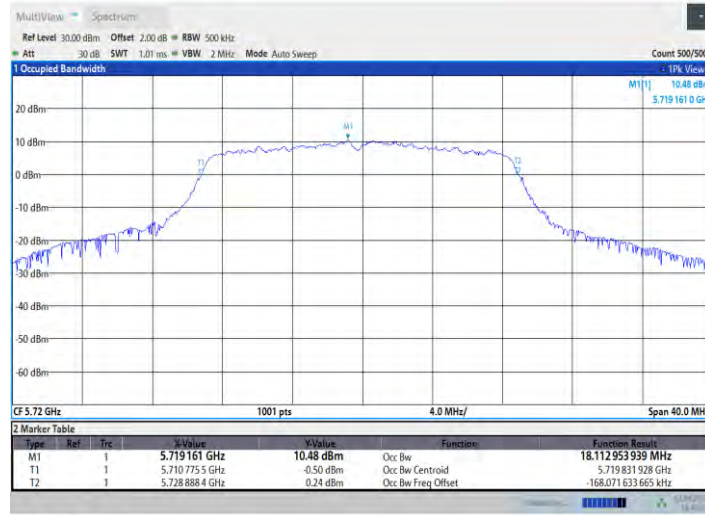
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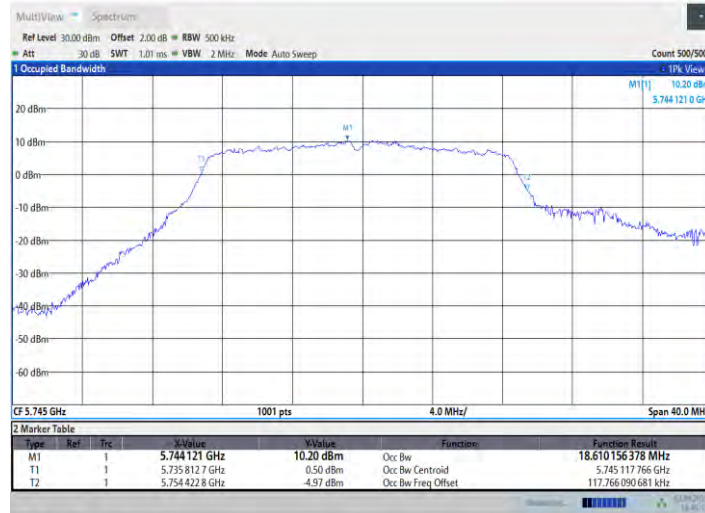
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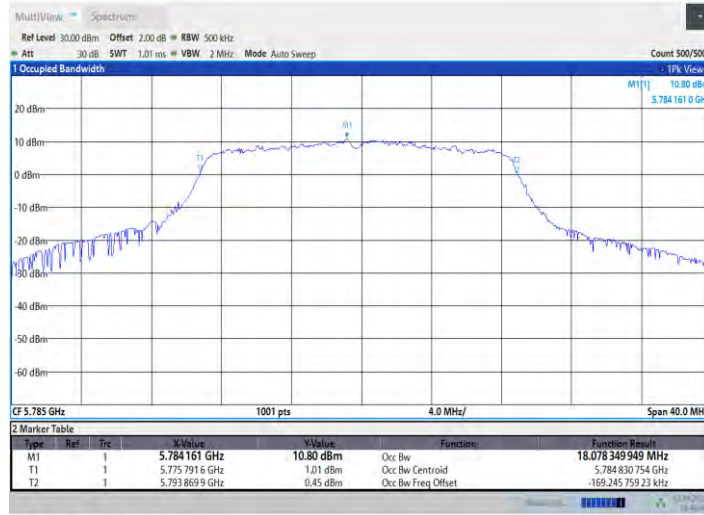
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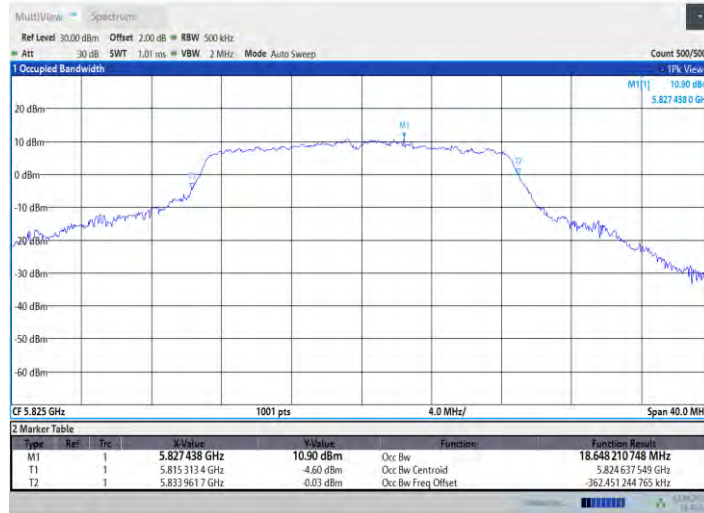
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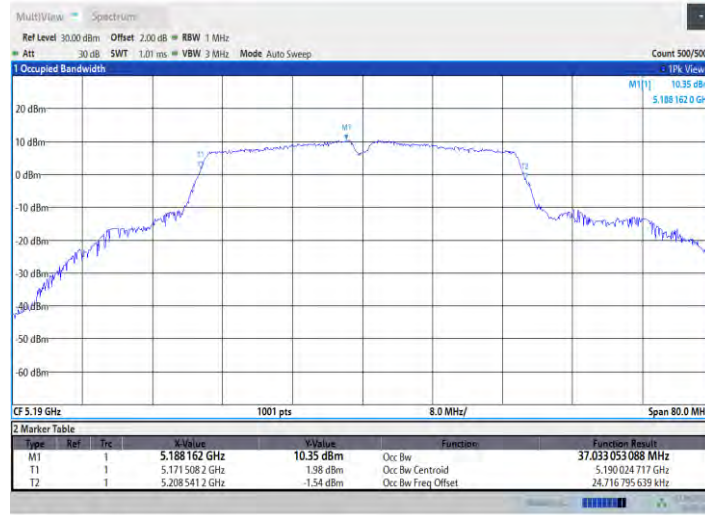


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20:05:27 02.08.2022

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20:08:20 02.08.2022



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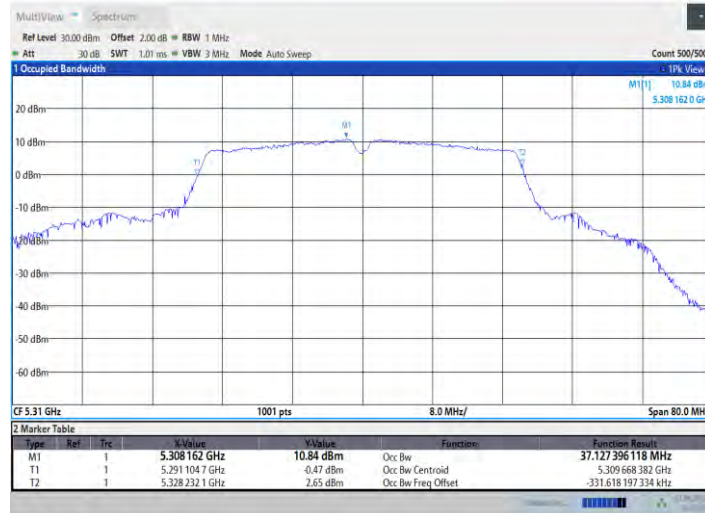
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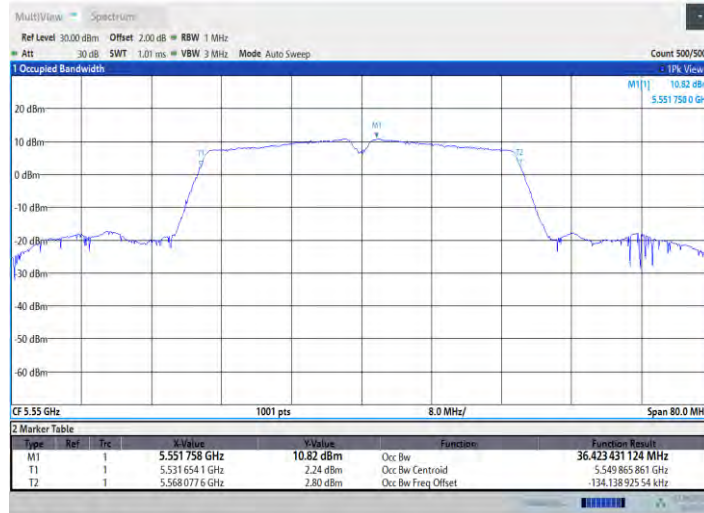
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