

Report No.: SUZR/2021/C002404

Rev.: 01

Page: 1 of 390

# TEST REPORT

**Application No.:** ZR/2021/C0024

**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.:** TB125FU

**Trade Mark:** Lenovo

**FCC ID:** O57TB125FU

**Standards:** 47 CFR FCC Part 2, Subpart J  
47 CFR FCC Part 15, Subpart E

**Date of Receipt:** 2021/12/29

**Date of Test:** 2021/12/30 to 2022/1/25

**Date of Issue:** 2022/1/26

<b>Test Result :</b>	<b>PASS *</b>
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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




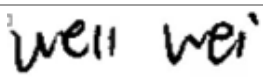
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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/1/26		Original

<b>Prepared By</b>		 <hr/> <b>(Weller Liu) / Engineer</b>
<b>Checked By</b>		 <hr/> <b>(Well Wei) / Reviewer</b>



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## 2 Test Summary

Test Item	Band <sup>[1]</sup>	FCC rules	Test Requirements	Test Result	Result
Antenna Requirement	--	15.203/407(a)	--	Clause 4.1	PASS
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 4.5	PASS
	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	PASS
	Band II-A				
	Band II-C				
	Band III				
Duty Cycle	Band I	--	No limit.	Clause 4.3	PASS
	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)		



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			<p>a) 27 dBm/MHz at frequencies from 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 &amp; in-restricted: §15.209/§7.2.5 limit (AV&amp;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
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



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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:	Weller Liu, King-p Li, Nature Shen, Tizy Song

#### 3.3 Test Facility

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

<ul style="list-style-type: none"> <li> <b>A2LA (Certificate No. 6336.01)</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.         </li> <li> <b>Innovation, Science and Economic Development Canada</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.            CAB identifier: CN0120.            IC#: 27594.         </li> <li> <b>FCC –Designation Number: CN1312</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.            Designation Number: CN1312.            Test Firm Registration Number:717327         </li> </ul>
---



### 3.4 General Description of EUT

EUT Description:	Portable Tablet Computer
Model No.:	TB125FU
Trade Mark:	Lenovo
Hardware Version:	Lenovo TB125FU
Software Version:	TB125FU_RF01_220125
IEEE 802.11 WLAN Mode Supported:	<input checked="" type="checkbox"/> 802.11a (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ac (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac (40 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac (80 MHz channel bandwidth)
Operation Frequency:	IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5150MHz to 5250MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5250MHz to 5350MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5470MHz to 5725MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Ports:	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System:	<input checked="" type="checkbox"/> SISO (for 802.11a/n/ac), <input type="checkbox"/> MIMO (for 802.11n/ac), <input type="checkbox"/> Diversity (for 802.11a).
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by applicant -0.28dBi;
RF Cable*:	<input checked="" type="checkbox"/> Provided by applicant 0.5dB(0.6~1GHz);      0.8dB(1.4~2GHz);      1.0dB(2.1~2.7GHz); 1.5dB(3~4GHz);      1.8dB(4.4~6GHz);
Remark:	<p>*Since the above data and/or information is provided by the applicant 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.</p>



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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

**For UNII Band I:**

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

**For UNII Band II-A:**

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



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

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

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

Note:

1. The above Frequency and Channel in “\*” were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in “#” were 802.11ac VHT80.



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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	3.8
LTNV	0	3.8
HTNV	40	3.8

Remark:  
 NV: Normal Voltage  
 NT: Normal Temperature  
 LT: Low Extreme Test Temperature  
 HT: High Extreme Test Temperature

### 3.6 Description of Support Units

The EUT has been tested independent unit.



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15 Section 15.203
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is -0.28dBi.	



## 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
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"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>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.</li> <li>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,</li> <li>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.</li> <li>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.</li> </ol>		



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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>Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. 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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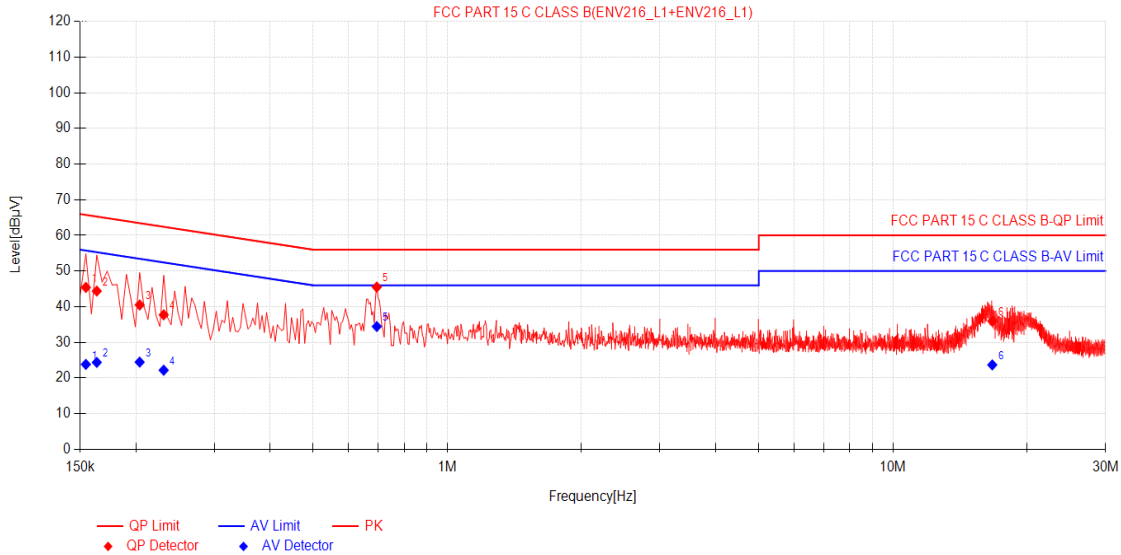
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**Measurement Data**

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.

**Live Line:**



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	10.64	45.41	65.75	20.34	23.83	55.75	31.92	PASS
2	0.1635	10.69	44.39	65.28	20.89	24.38	55.28	30.90	PASS
3	0.2040	10.82	40.49	63.45	22.96	24.46	53.45	28.99	PASS
4	0.2310	10.81	37.73	62.41	24.68	22.19	52.41	30.22	PASS
5	0.6945	10.58	45.51	56.00	10.49	34.45	46.00	11.55	PASS
6	16.7010	10.49	35.94	60.00	24.06	23.68	50.00	26.32	PASS

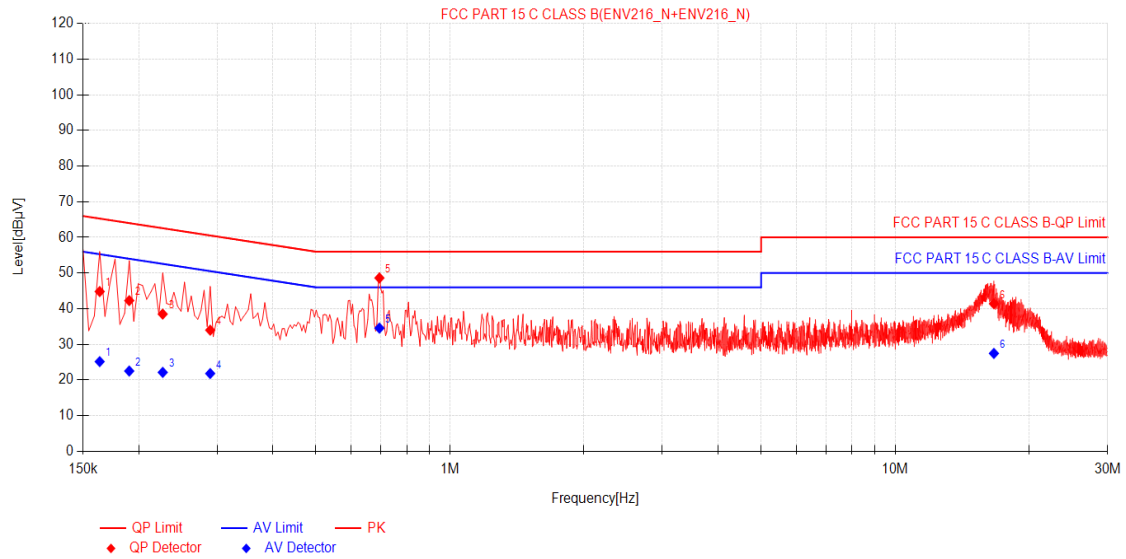
**Remark:**

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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Neutral Line:



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.72	44.81	65.28	20.47	25.16	55.28	30.12	PASS
2	0.1905	10.67	42.27	64.01	21.74	22.52	54.01	31.49	PASS
3	0.2265	10.70	38.49	62.58	24.09	22.14	52.58	30.44	PASS
4	0.2895	10.74	33.98	60.54	26.56	21.82	50.54	28.72	PASS
5	0.6945	10.80	48.62	56.00	7.38	34.55	46.00	11.45	PASS
6	16.6560	10.54	41.40	60.00	18.60	27.46	50.00	22.54	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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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	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20) ;</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT20);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT80);</p> <p>Only the worst case is recorded in the report.</p>	
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: <b>Appendix</b>		



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### 4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C
Test Method:	ANSI C63.10: 2013
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 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	





### 4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20) ;</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT20).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT40).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT80).</p> <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		



### 4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	<p>Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20) ;</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT20).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT40).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT80).</p> <p>Only the worst case is recorded in the report.</p>
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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### 4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 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:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20) ;</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT20).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT40).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT80).</p> <p>Only the worst case is recorded in the report.</p>	
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: <b>Appendix</b>		



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### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	

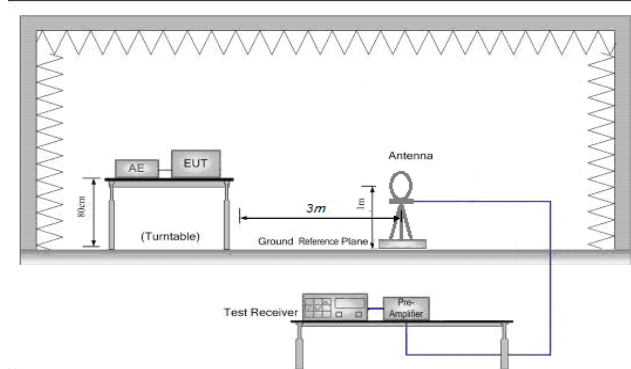


Figure 1. 9kHz to 30MHz

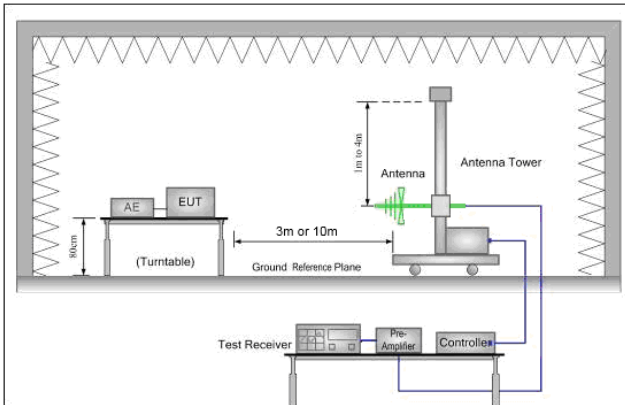


Figure 1. 30MHz to 1GHz

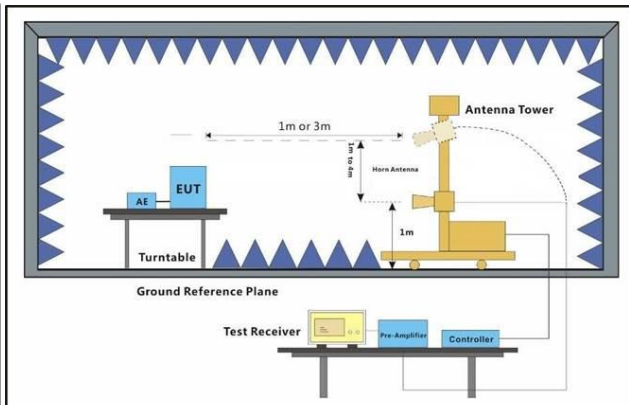


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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</li> </ol>
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	<p>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>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20) ;</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT20).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT40).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT80).</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case.</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: <b>Appendix</b>	



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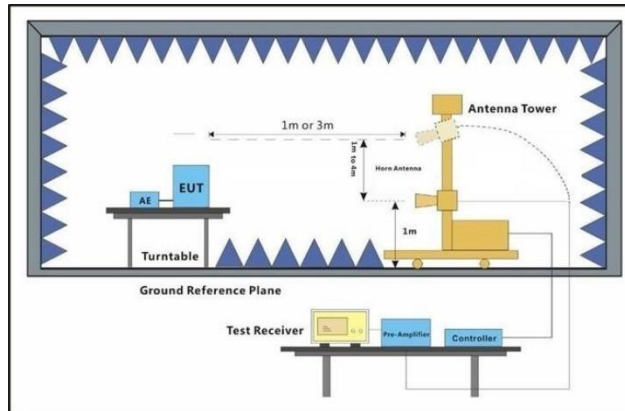
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### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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## 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	±7.25x 10 <sup>-8</sup>
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25x 10 <sup>-8</sup>
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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## 6 Equipment List

Tonscend Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS1120-3 Test System V 3.5.51	SUWI-02-09-09	NCR	NCR

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
Power Meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power Sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3



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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR
Radio Communication Analyzer	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A.1 WLAN Setup Photos.



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# Appendix



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**Emission Bandwidth  
Test Result**

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant1	5180	29.76	5165.12	5194.88	---	---
		5220	27.28	5206.88	5234.16	---	---
		5240	26.60	5226.56	5253.16	---	---
		5260	25.40	5248.04	5273.44	---	---
		5300	26.08	5287.40	5313.48	---	---
		5320	26.76	5307.52	5334.28	---	---
		5500	27.72	5486.12	5513.84	---	---
		5580	26.64	5567.44	5594.08	---	---
		5700	26.84	5686.32	5713.16	---	---
		5720	25.36	5707.04	5732.40	---	---
		5720_UNII-2C	17.96	5707.04	5725	---	---
		5720_UNII-3	7.40	5725	5732.40	---	---
		5745	25.96	5732.44	5758.40	---	---
		5785	27.36	5770.52	5797.88	---	---
		5825	29.56	5811.40	5840.96	---	---
11n20SISO	Ant1	5180	24.28	5168.24	5192.52	---	---
		5220	23.92	5208.24	5232.16	---	---
		5240	23.84	5228.24	5252.08	---	---
		5260	23.36	5248.32	5271.68	---	---
		5300	25.92	5286.76	5312.68	---	---
		5320	23.76	5308.24	5332.00	---	---
		5500	24.52	5488.24	5512.76	---	---
		5580	24.04	5568.24	5592.28	---	---
		5700	25.32	5687.76	5713.08	---	---
		5720	24.28	5708.20	5732.48	---	---
		5720_UNII-2C	16.80	5708.20	5725	---	---
		5720_UNII-3	7.48	5725	5732.48	---	---
		5745	26.72	5731.36	5758.08	---	---



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		5825	24.08	5812.40	5836.48	---	---		
11n40SISO	Ant1	5190	48.40	5166.16	5214.56	---	---		
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		5270	47.52	5247.20	5294.72	---	---		
		5310	56.72	5282.24	5338.96	---	---		
		5510	43.76	5487.60	5531.36	---	---		
		5550	51.52	5519.76	5571.28	---	---		
		5670	52.40	5642.32	5694.72	---	---		
		5710	60.40	5676.96	5737.36	---	---		
		5710_UNII-2C	48.04	5676.96	5725	---	---		
		5710_UNII-3	12.36	5725	5737.36	---	---		
		5755	53.84	5725.64	5779.48	---	---		
		5795	53.76	5765.88	5819.64	---	---		
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5260	22.08			5249.80	5271.88	---	---		
5300	22.92			5289.60	5312.52	---	---		
5320	22.52			5308.76	5331.28	---	---		
5500	20.56			5489.56	5510.12	---	---		
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5745	23.88			5731.56	5755.44	---	---		
5785	21.32			5773.88	5795.20	---	---		
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		5270	41.28	5249.20	5290.48	---	---		
		5310	47.44	5287.20	5334.64	---	---		



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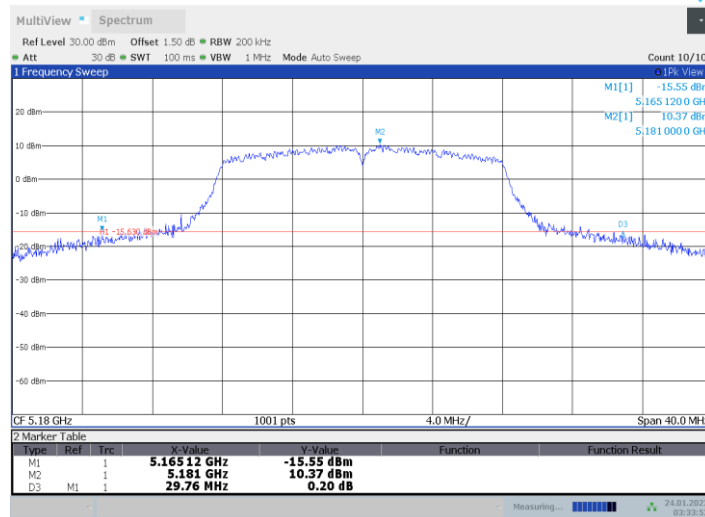
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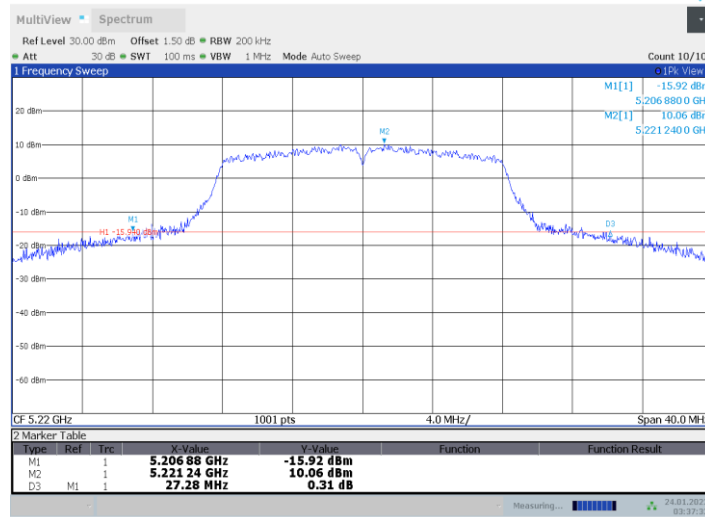
Test Graphs

11a\_Ant1\_5180



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11a\_Ant1\_5220



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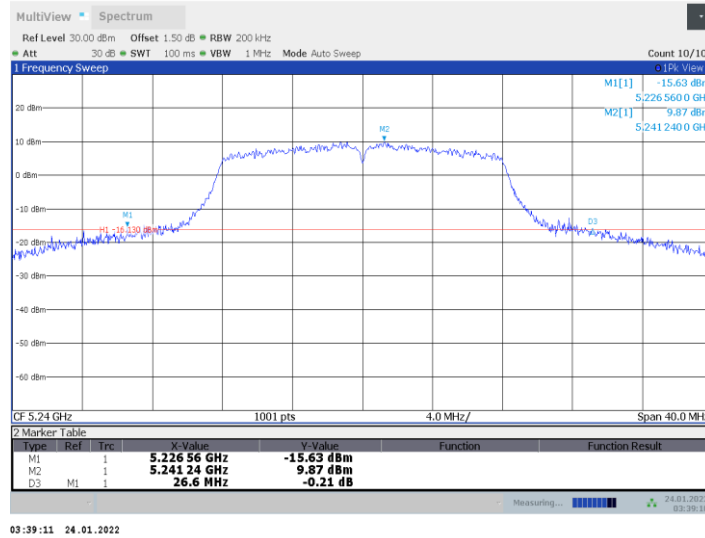
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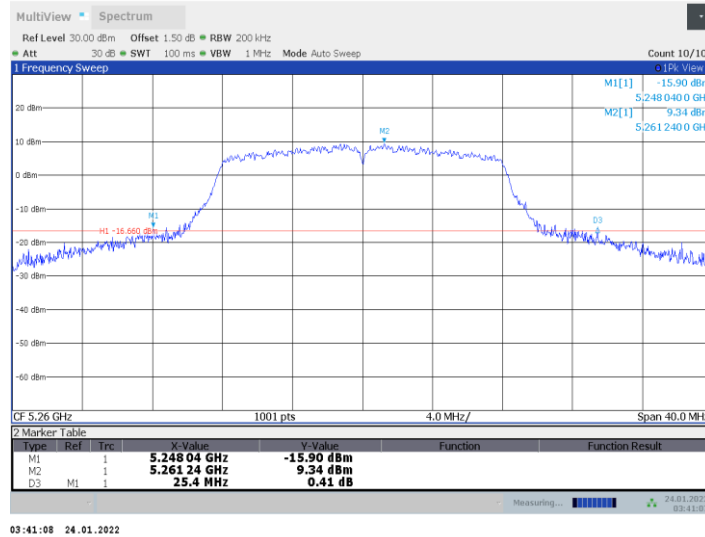
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11a\_Ant1\_5240



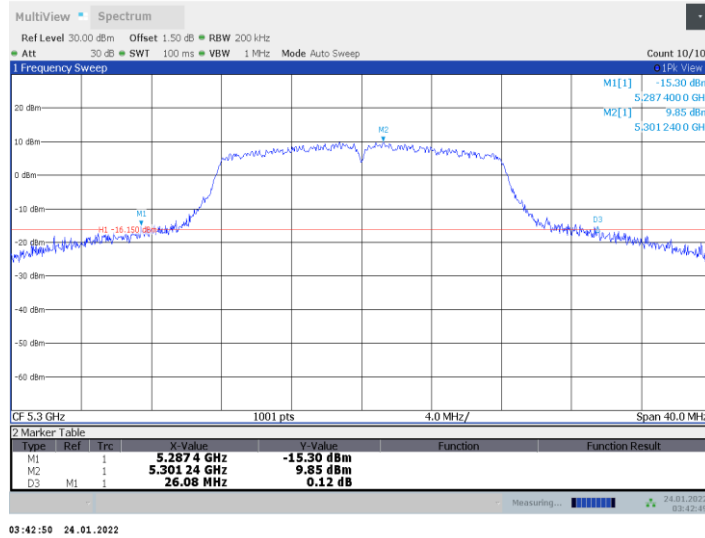
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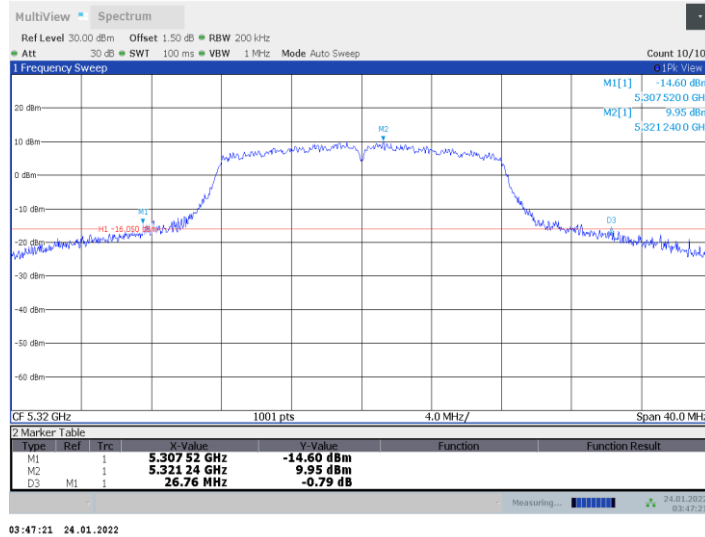
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11a\_Ant1\_5320



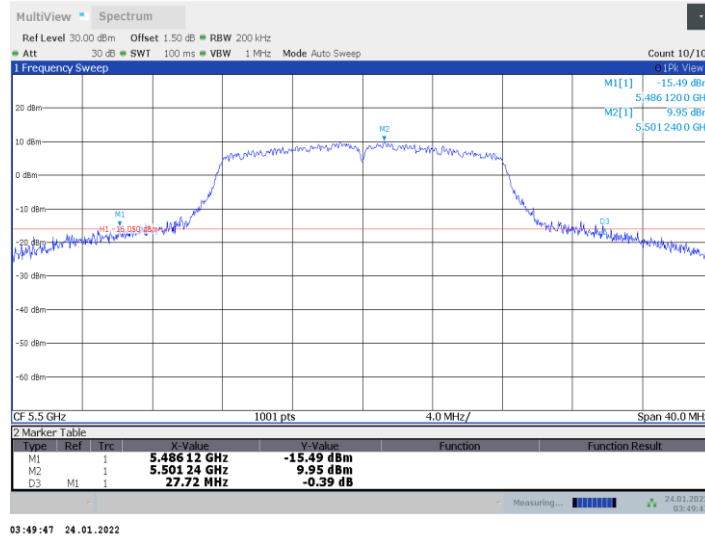
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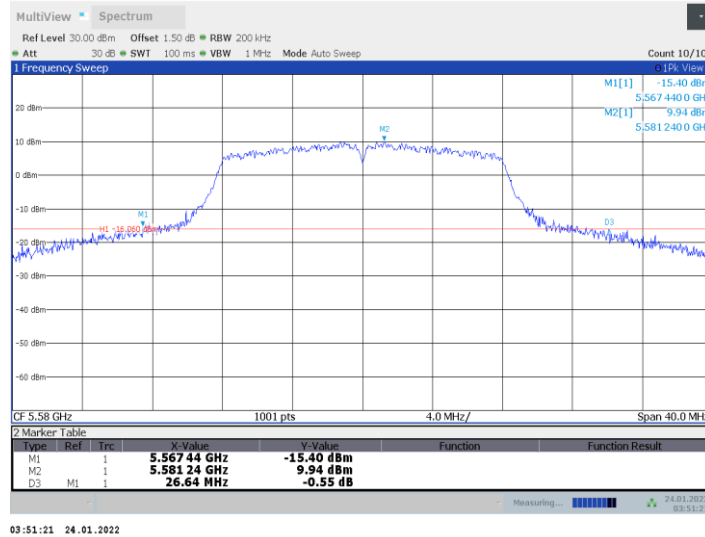
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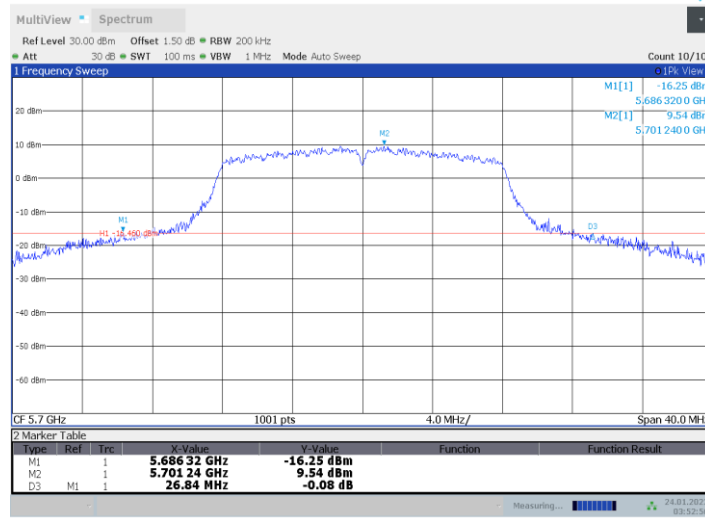


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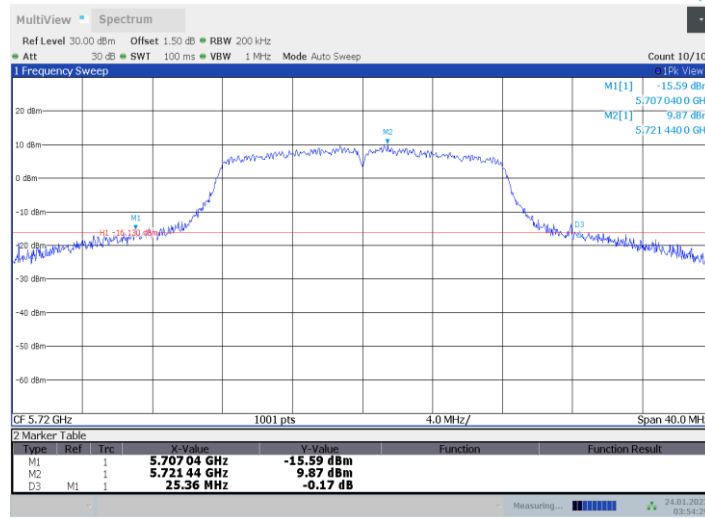
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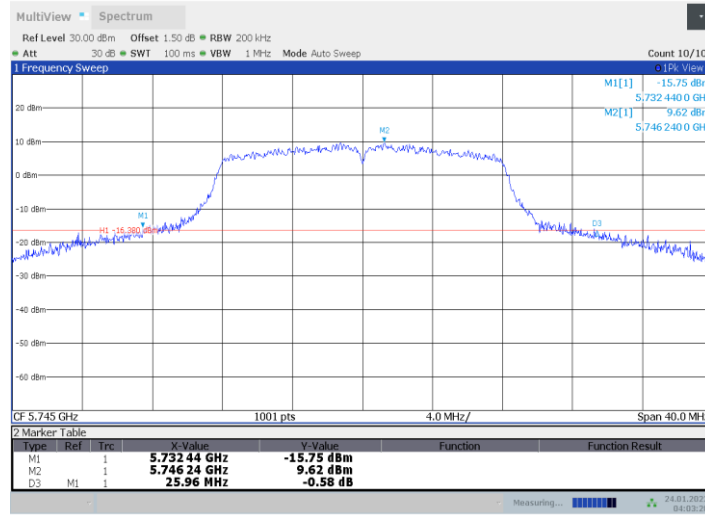
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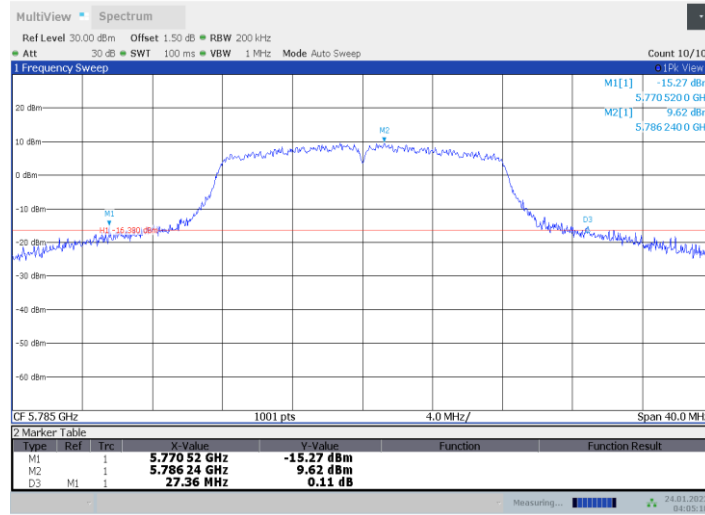


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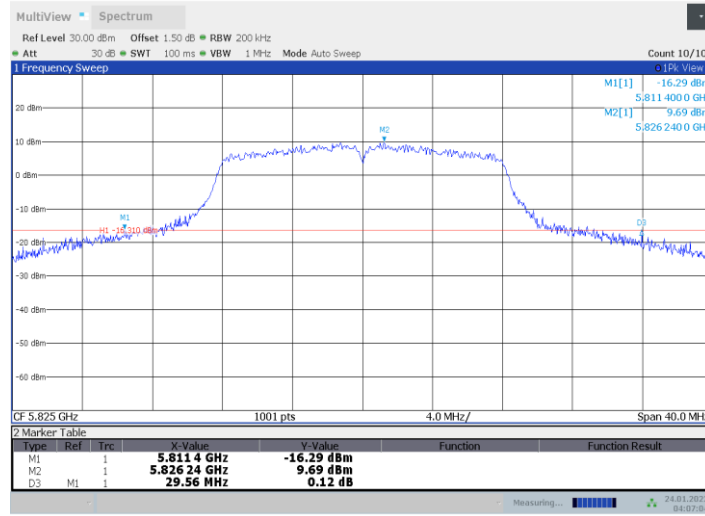
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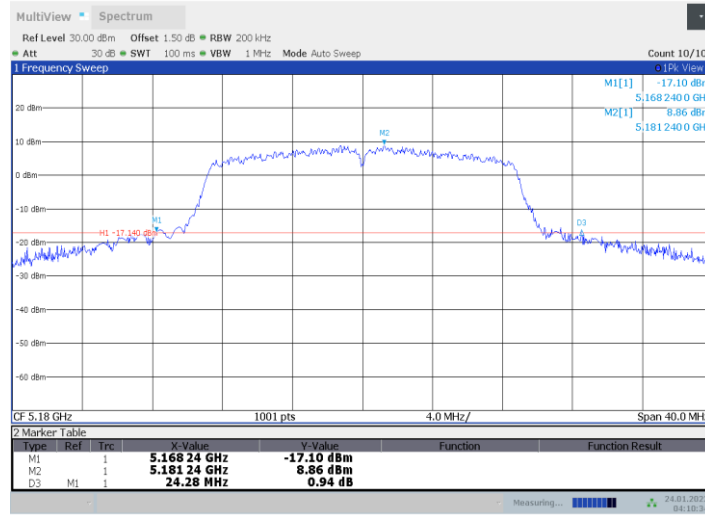
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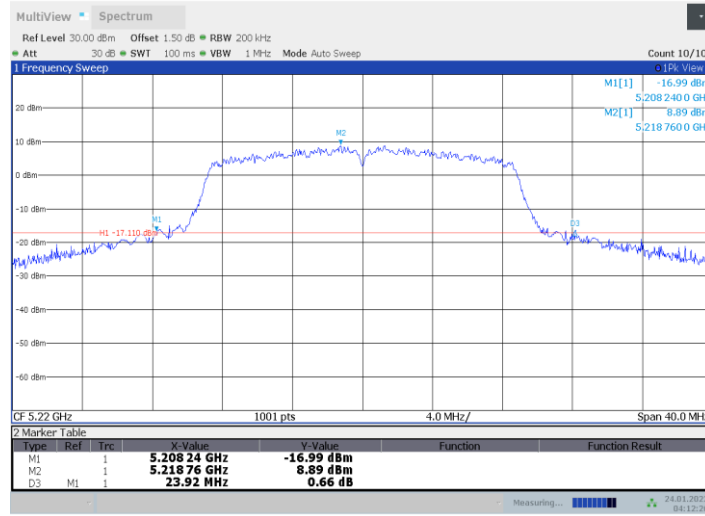
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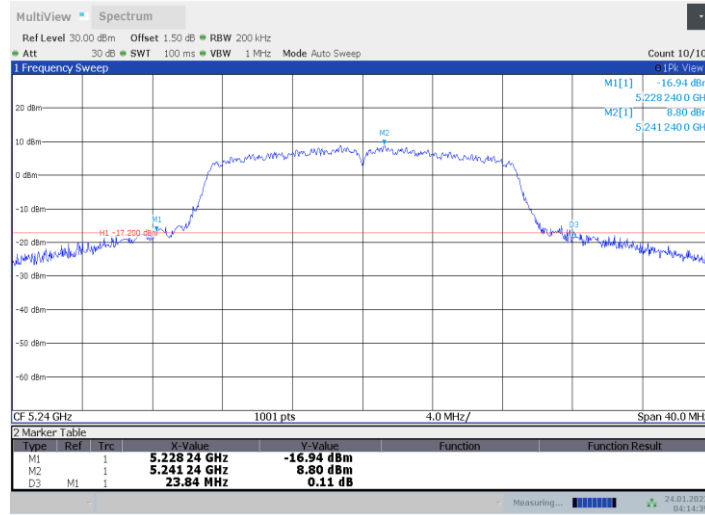
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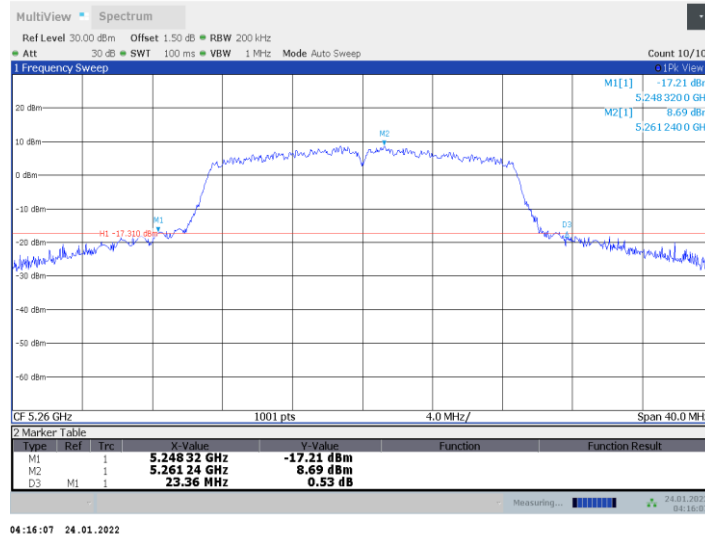
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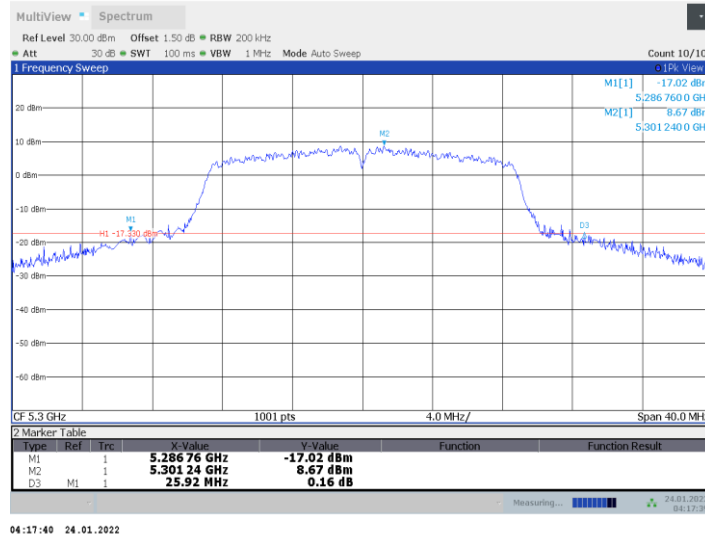
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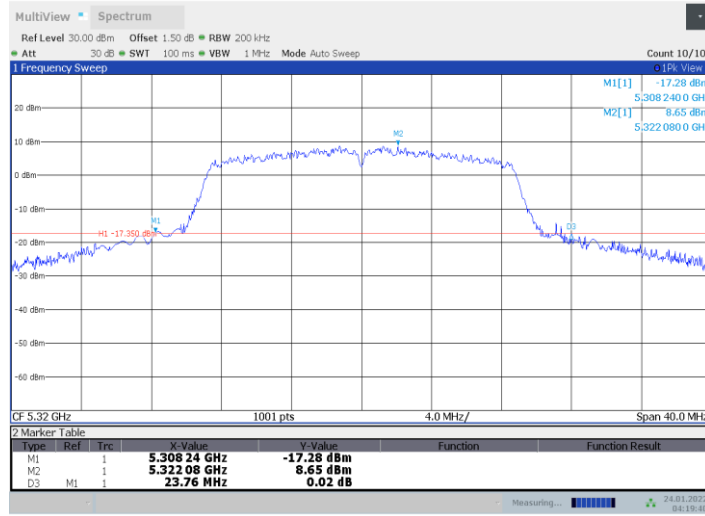
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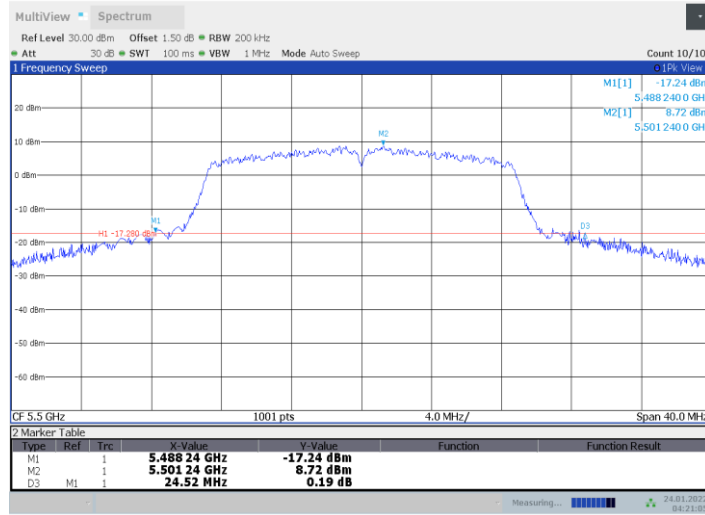
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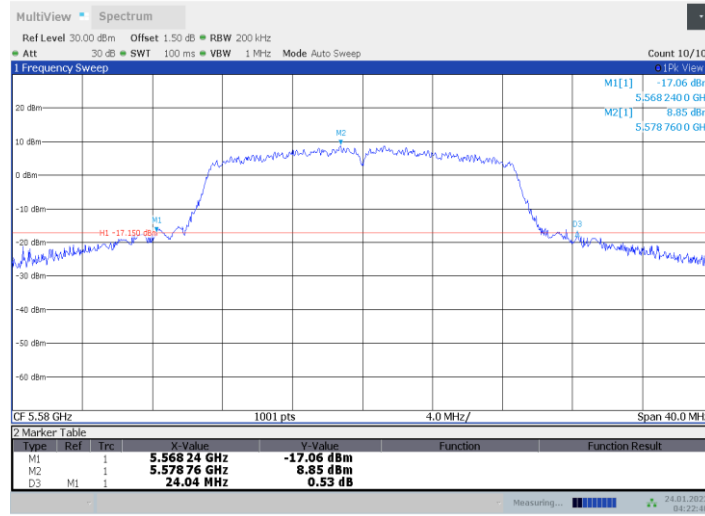
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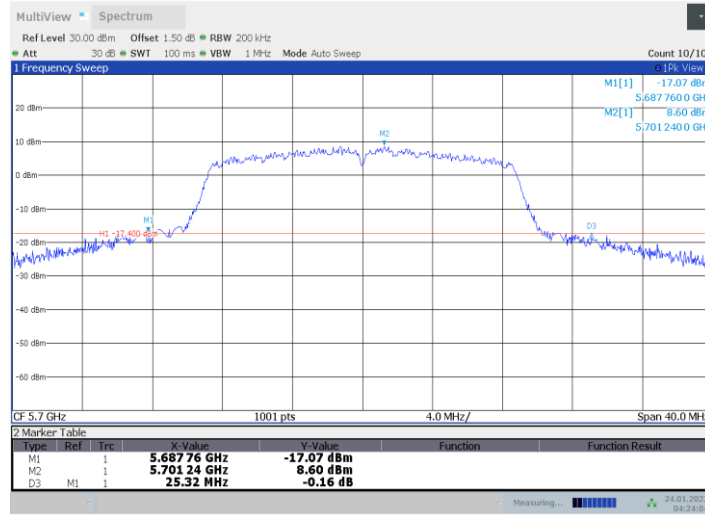


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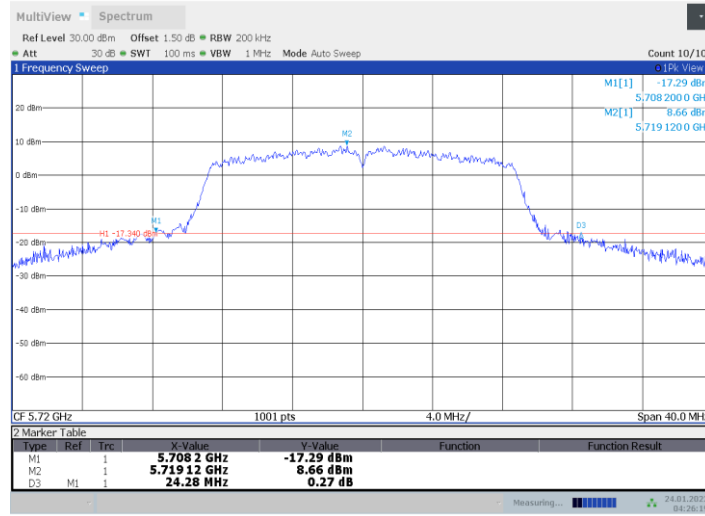
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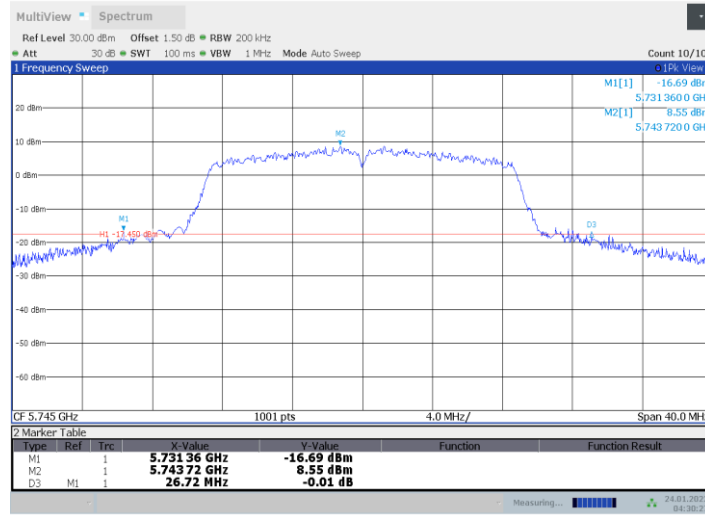
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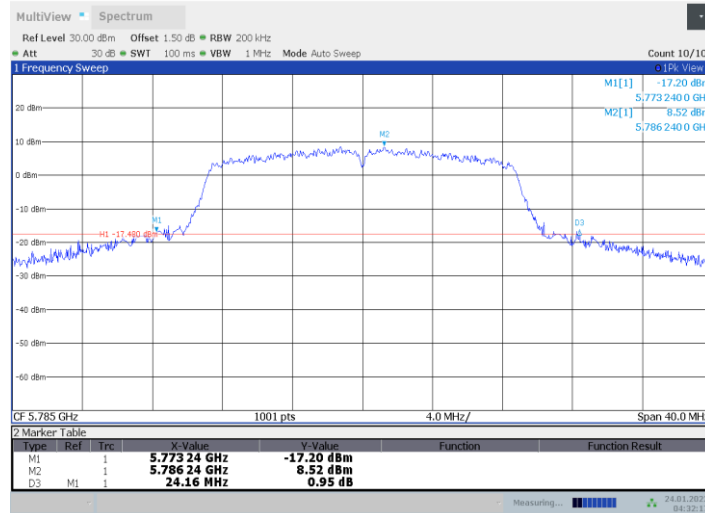
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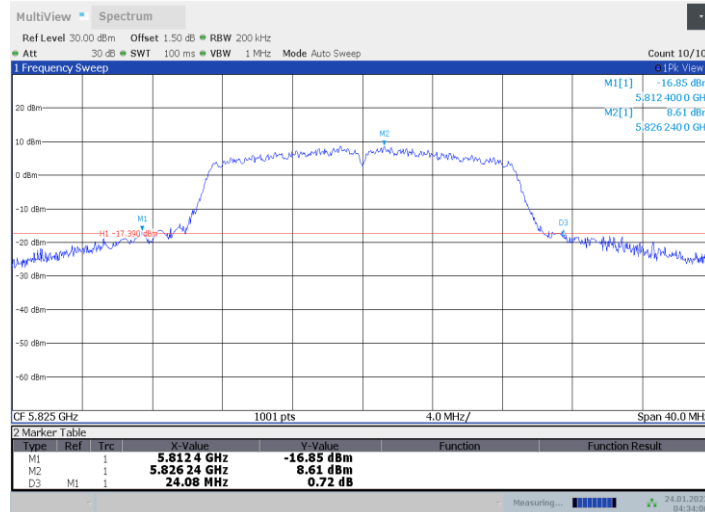
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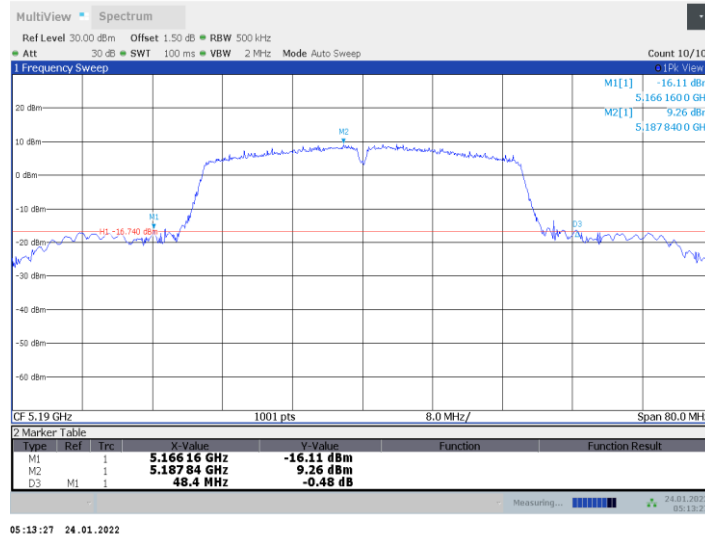
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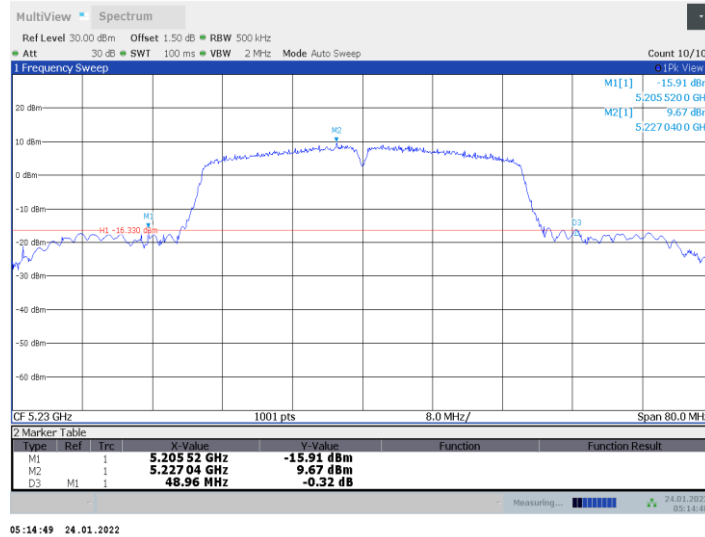
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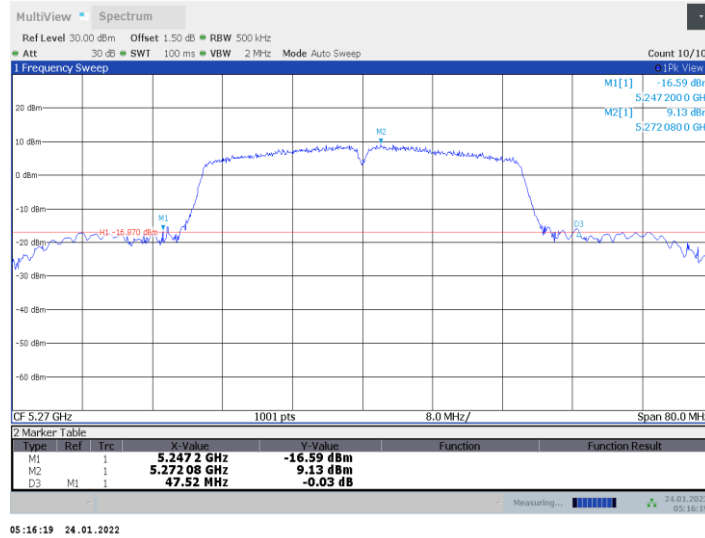


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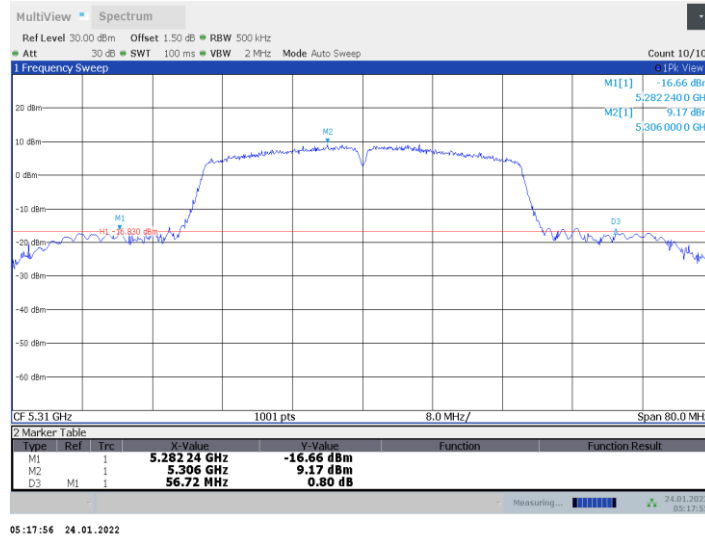
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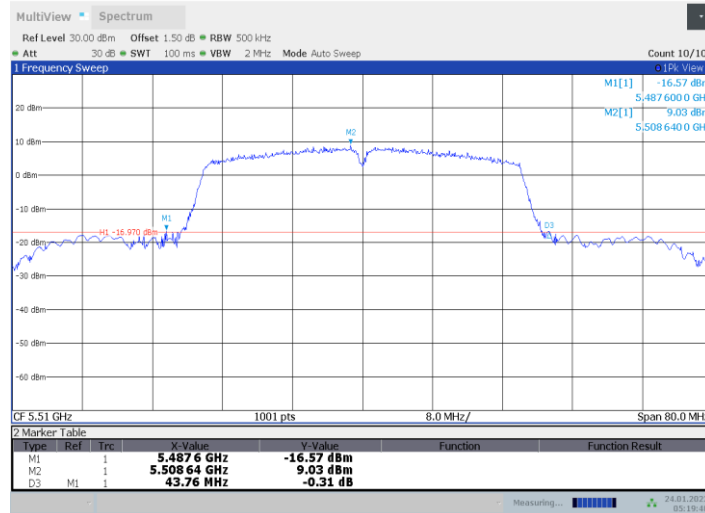
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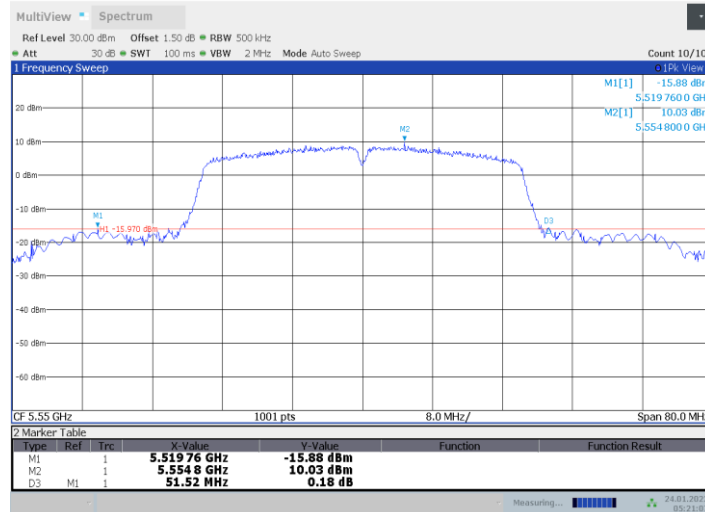


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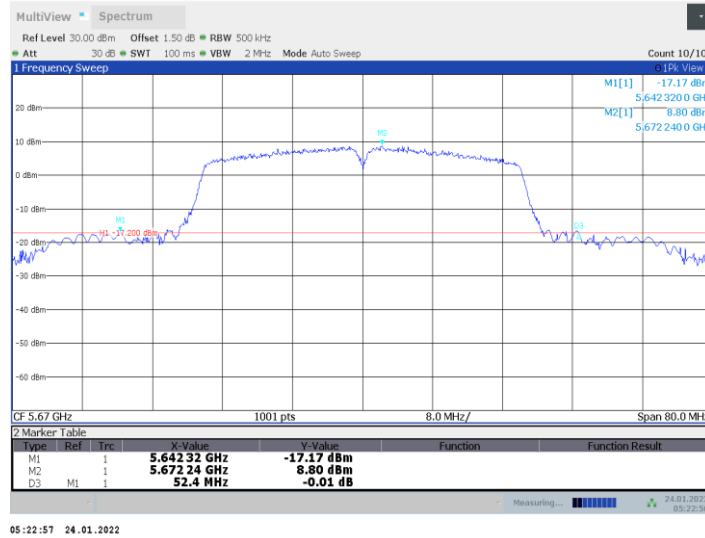
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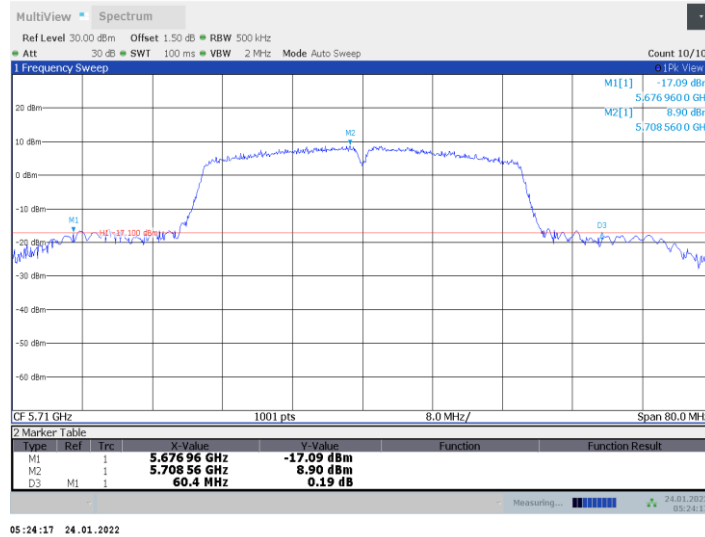
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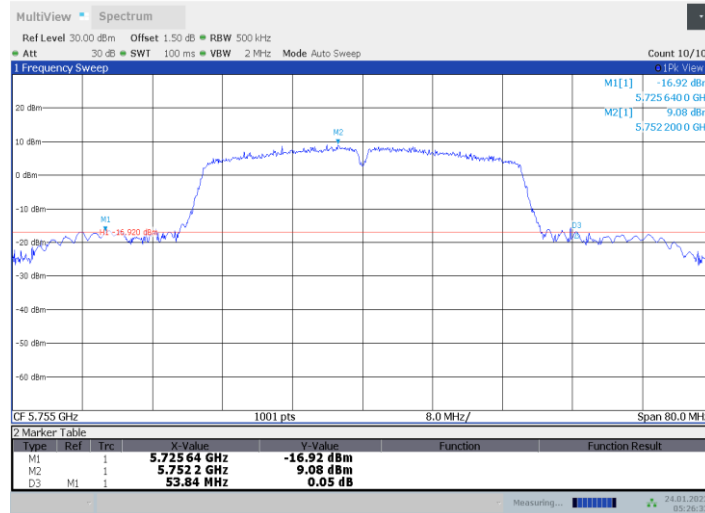


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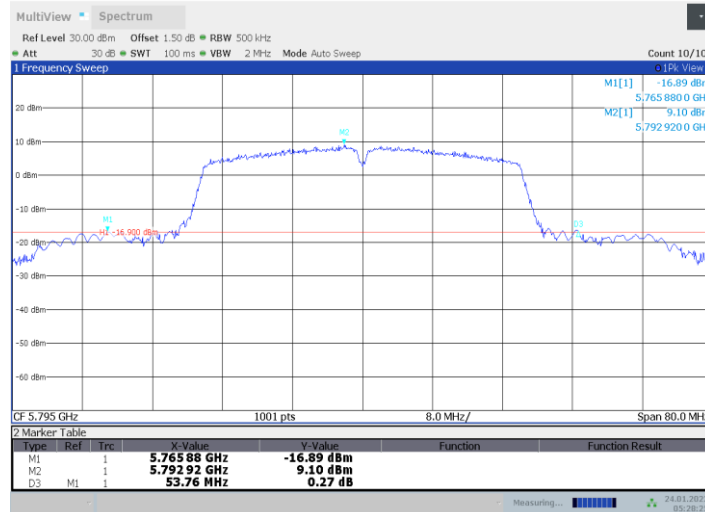
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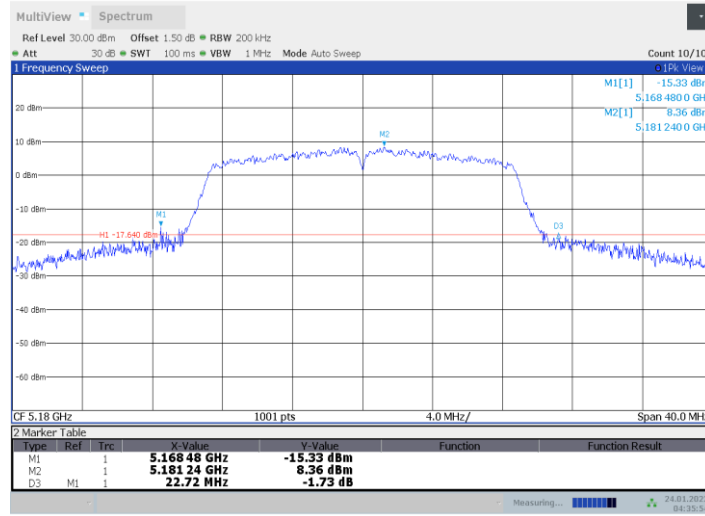


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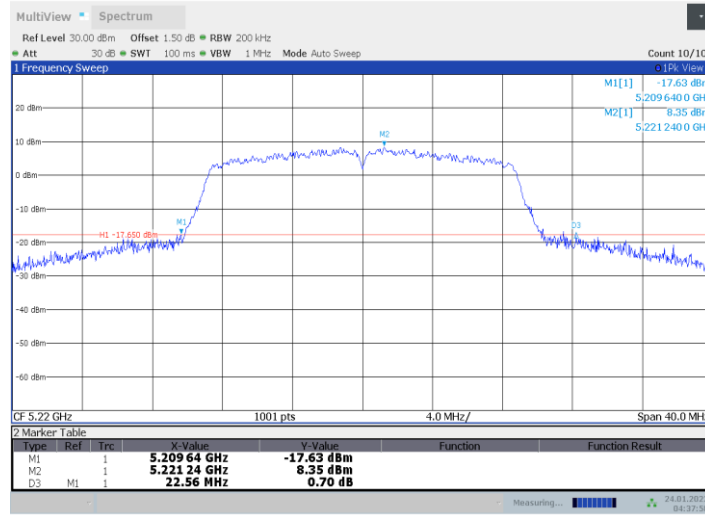
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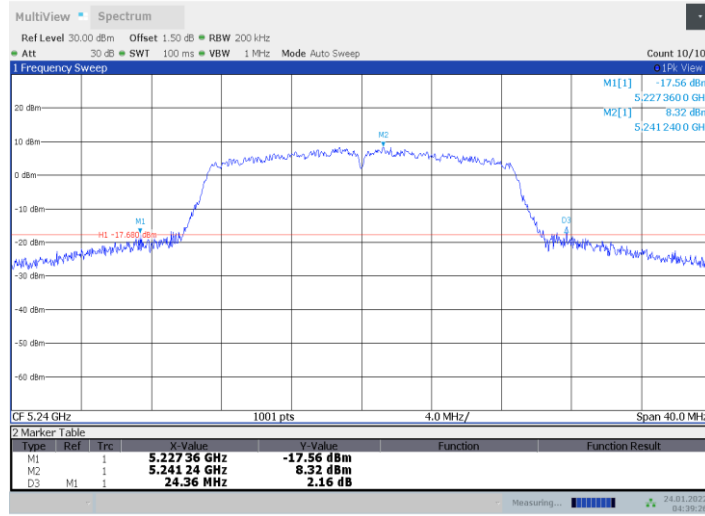


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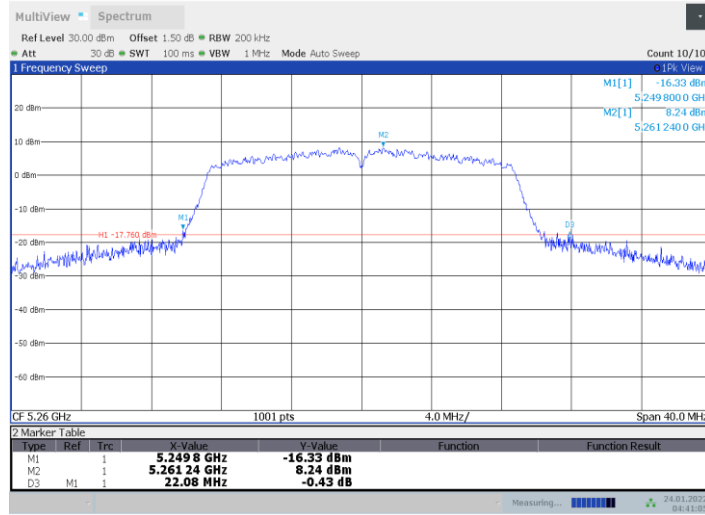
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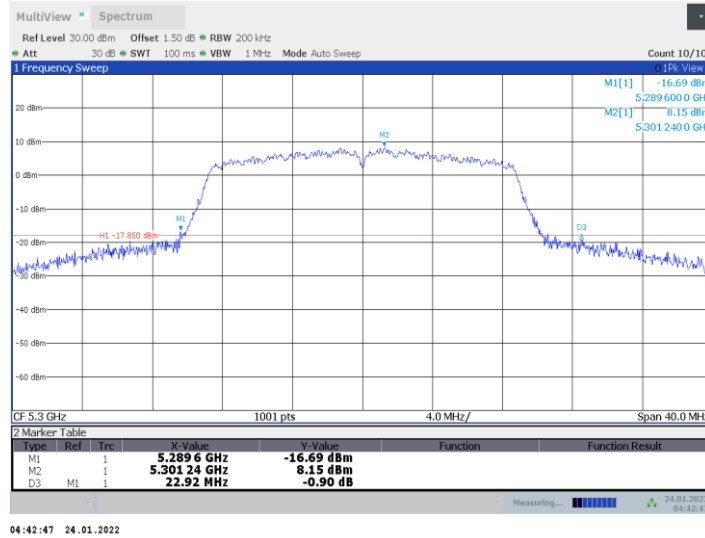
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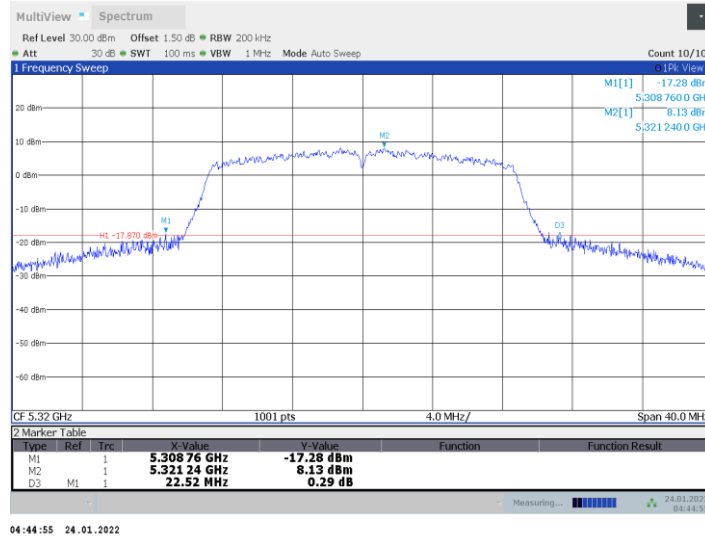


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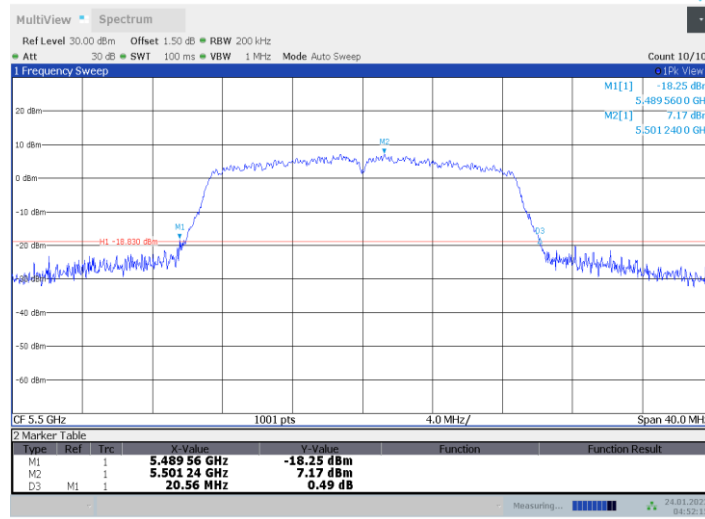
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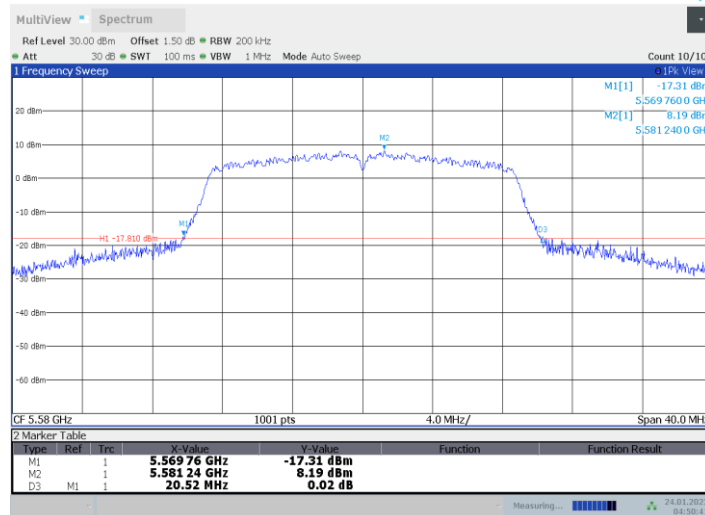
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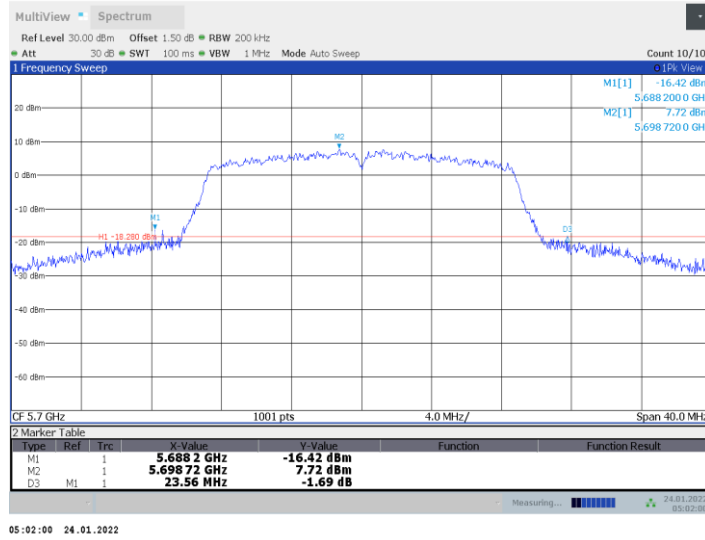
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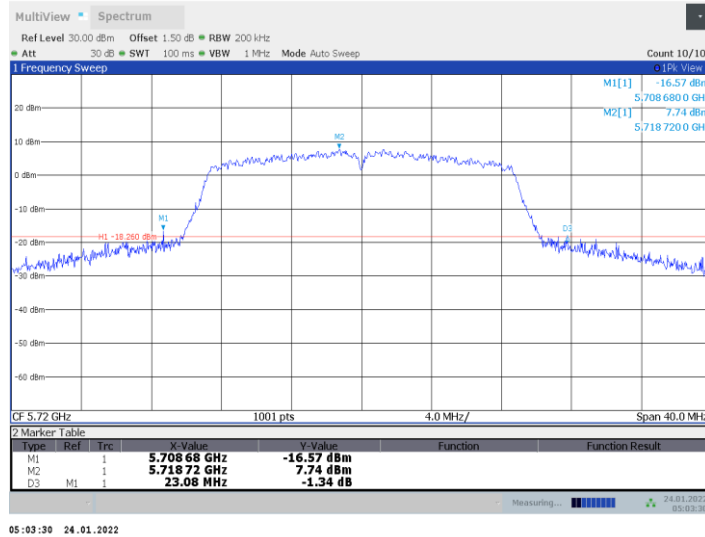
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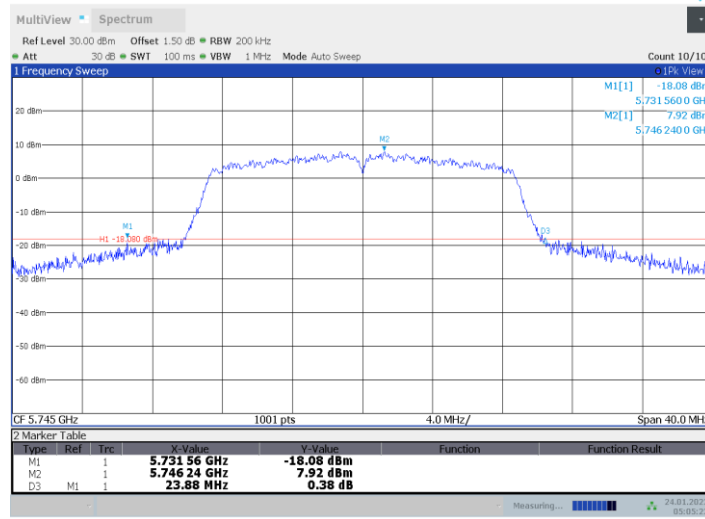
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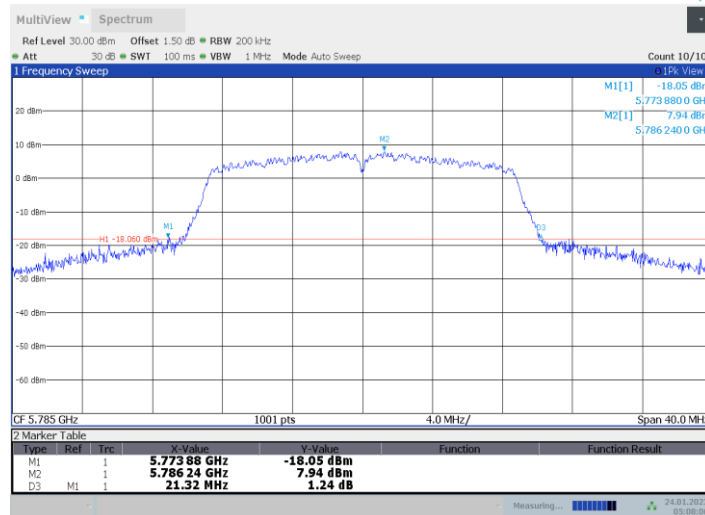
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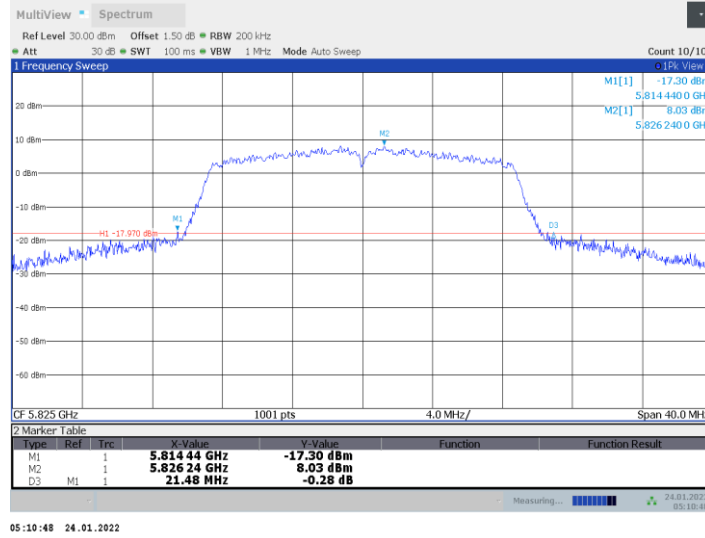
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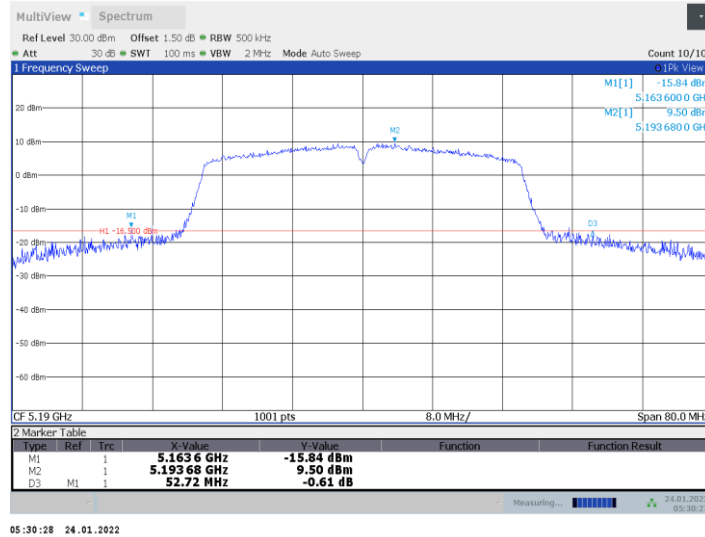
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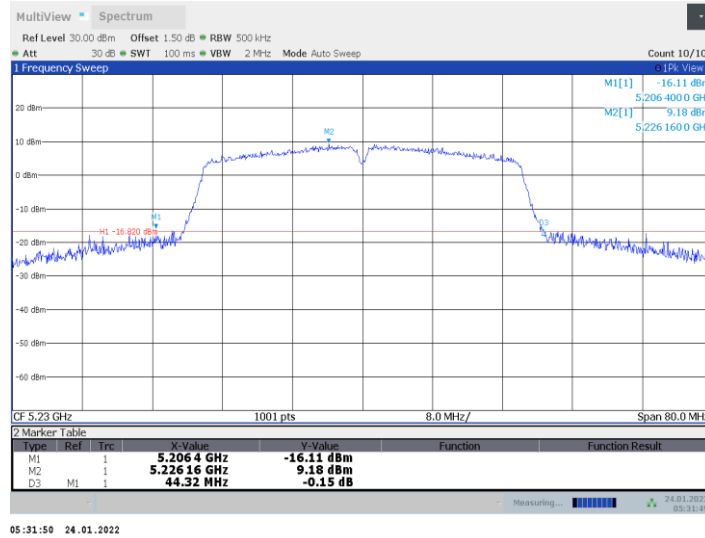


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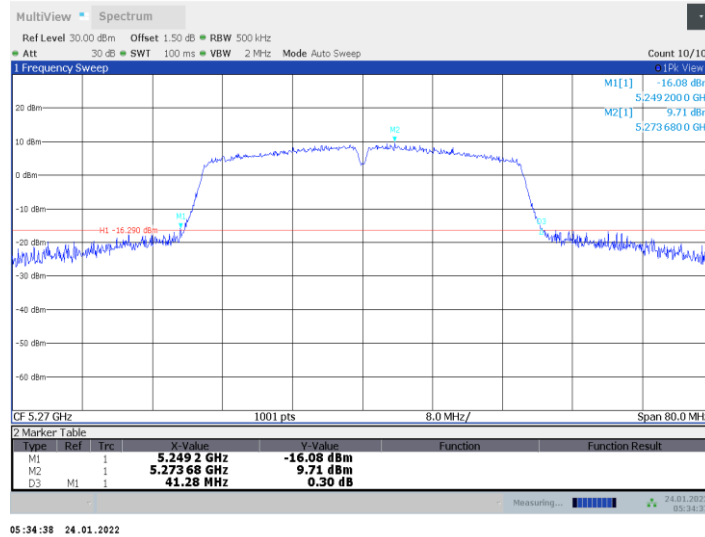
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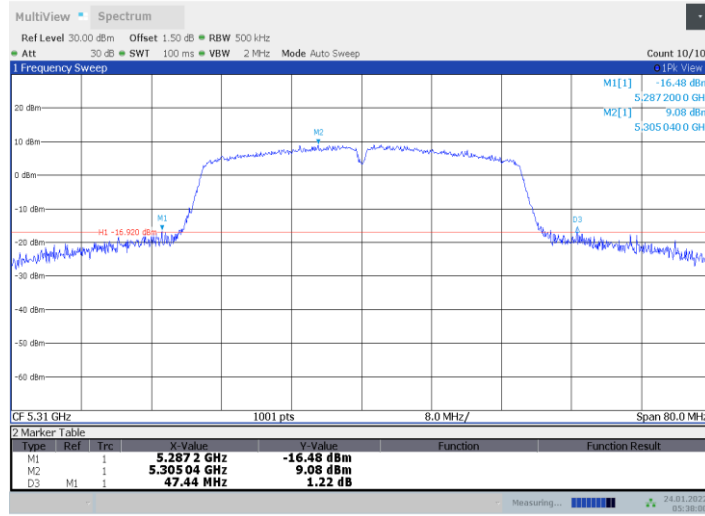
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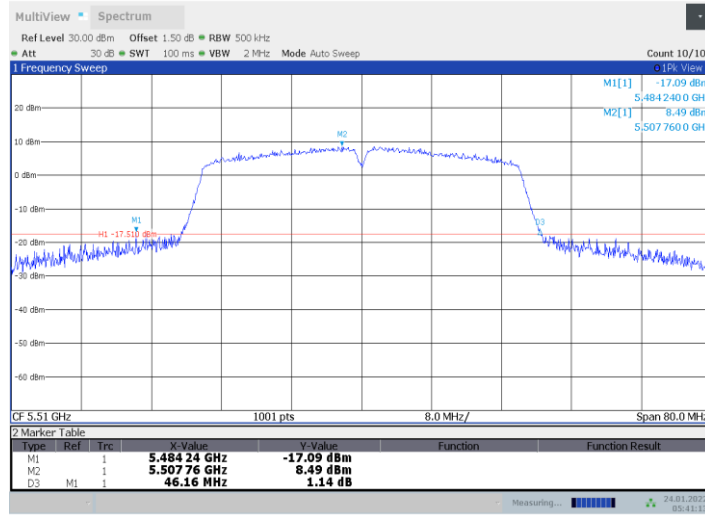
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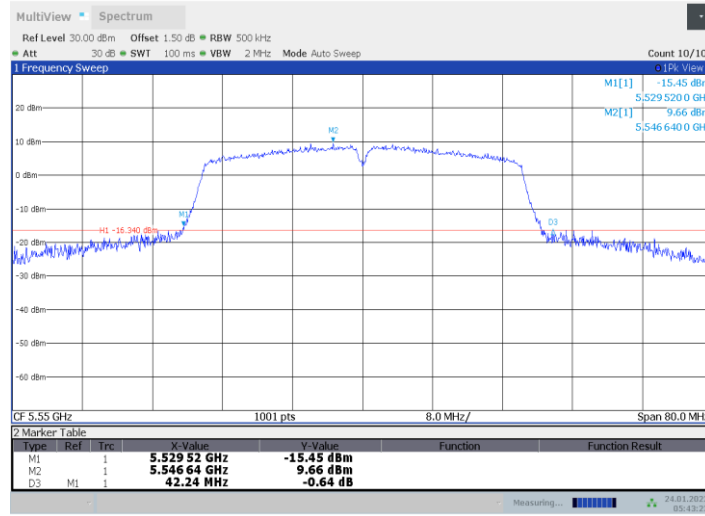
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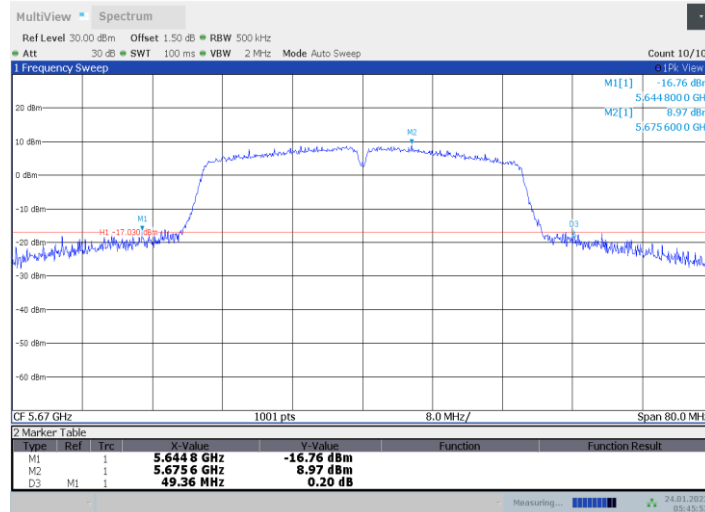
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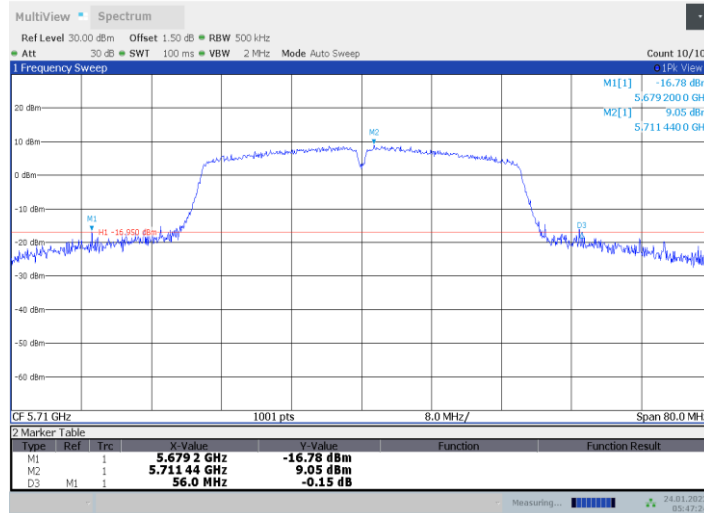
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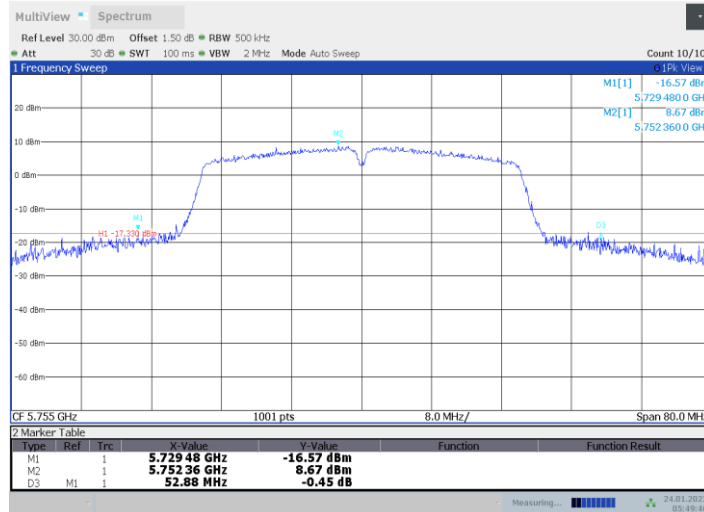
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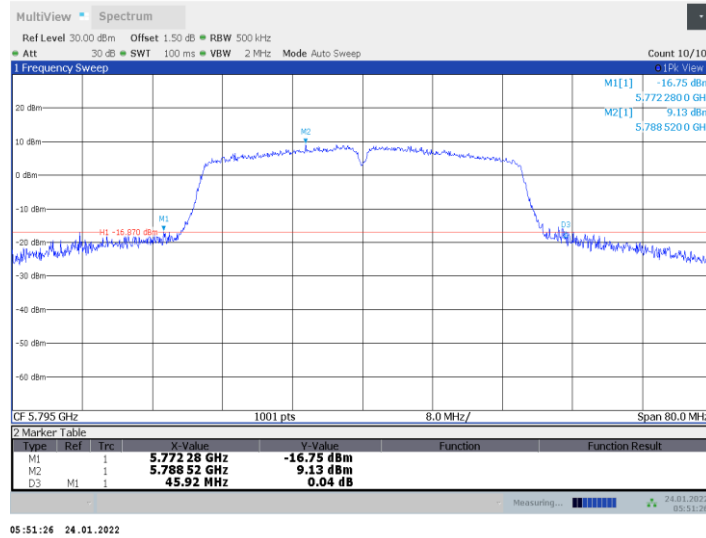
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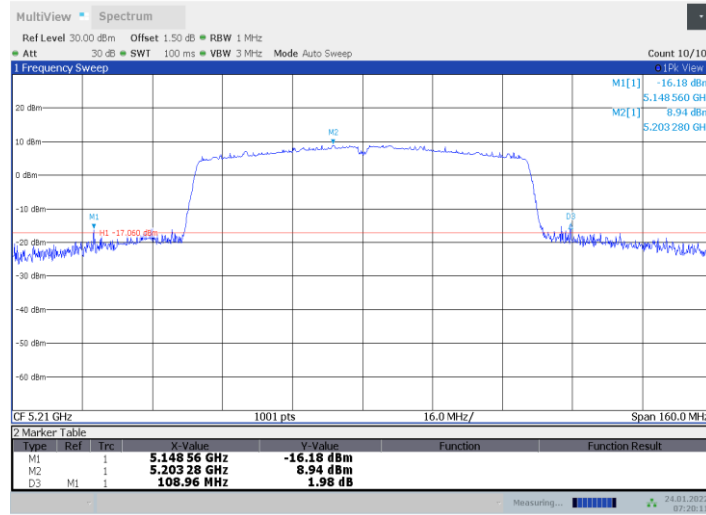
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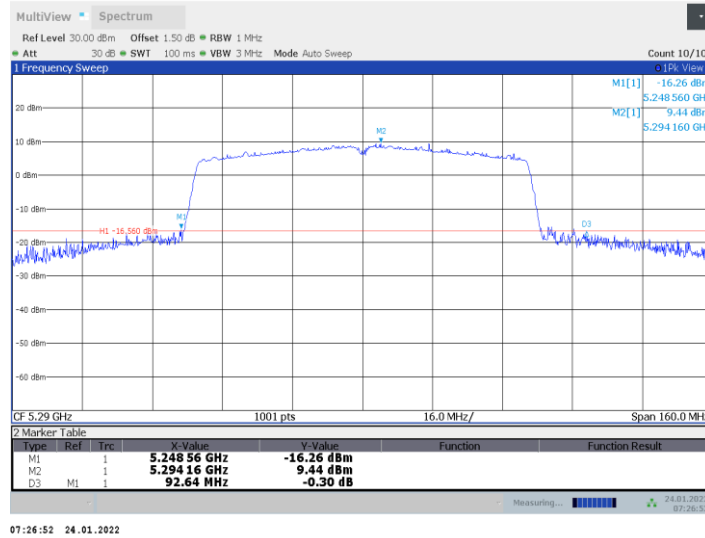
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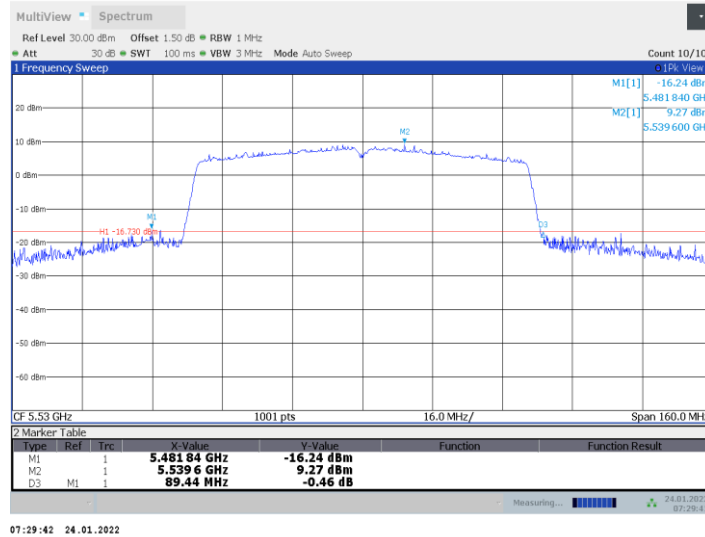
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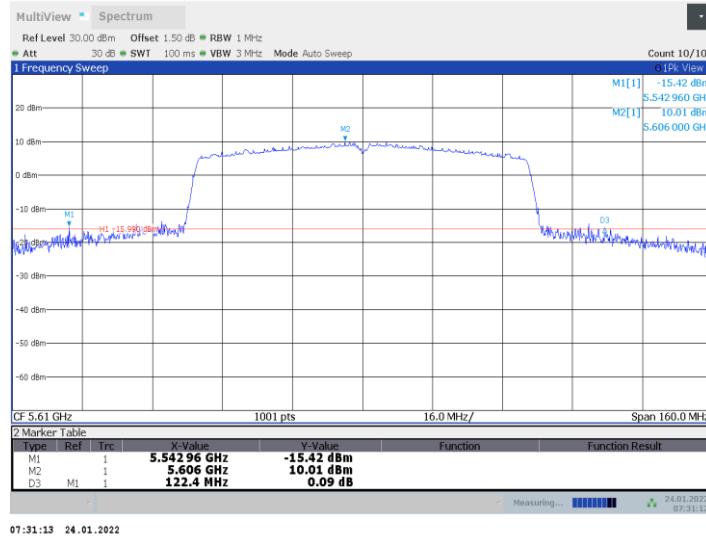
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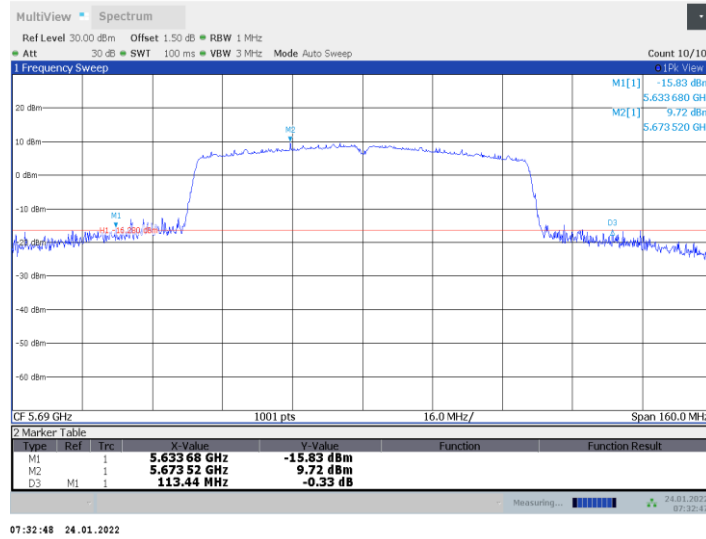
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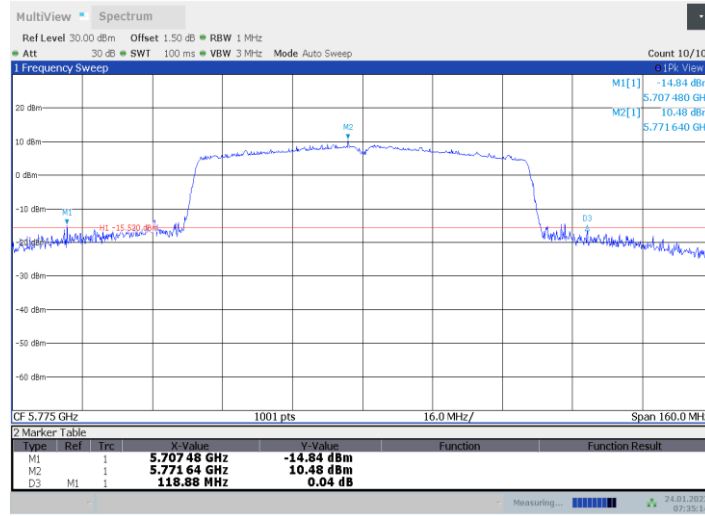
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11ac80SISO\_Ant1\_5775



07:35:15 24.01.2022



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**Occupied channel bandwidth  
Test Result**

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant1	5180	17.177	5171.405	5188.582	---	---
		5220	17.216	5211.418	5228.635	---	---
		5240	17.157	5231.438	5248.595	---	---
		5260	16.996	5251.437	5268.433	---	---
		5300	17.054	5291.503	5308.557	---	---
		5320	17.019	5311.446	5328.465	---	---
		5500	17.078	5491.386	5508.464	---	---
		5580	17.055	5571.479	5588.534	---	---
		5700	17.001	5691.499	5708.501	---	---
		5720	17.444	5711.372	5728.817	---	---
		5720_UNII-2C	13.628	5711.372	5725	---	---
		5720_UNII-3	3.817	5725	5728.817	---	---
		5745	17.117	5736.395	5753.512	---	---
		5785	17.097	5776.404	5793.501	---	---
		5825	16.983	5816.588	5833.571	---	---
11n20SISO	Ant1	5180	18.113	5170.919	5189.032	---	---
		5220	18.007	5211.023	5229.030	---	---
		5240	17.753	5231.120	5248.873	---	---
		5260	17.937	5251.046	5268.983	---	---
		5300	18.071	5291.062	5309.133	---	---
		5320	18.464	5310.687	5329.151	---	---
		5500	18.028	5490.875	5508.904	---	---
		5580	17.898	5571.115	5589.013	---	---
		5700	18.079	5690.970	5709.049	---	---
		5720	18.02	5710.863	5728.883	---	---
		5720_UNII-2C	14.137	5710.863	5725	---	---
		5720_UNII-3	3.883	5725	5728.883	---	---
		5745	18.304	5735.702	5754.006	---	---
		5785	17.939	5776.030	5793.969	---	---



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		5825	17.822	5816.018	5833.841	---	---
11n40SISO	Ant1	5190	36.519	5171.913	5208.432	---	---
		5230	37.147	5211.520	5248.667	---	---
		5270	36.128	5252.005	5288.133	---	---
		5310	36.079	5291.885	5327.964	---	---
		5510	36.495	5491.913	5528.409	---	---
		5550	36.206	5531.853	5568.059	---	---
		5670	36.256	5651.905	5688.162	---	---
		5710	36.38	5691.667	5728.047	---	---
		5710_UNII-2C	33.333	5691.667	5725	---	---
		5710_UNII-3	3.047	5725	5728.047	---	---
		5755	36.338	5736.899	5773.237	---	---
		5795	36.091	5777.070	5813.161	---	---
11ac20SISO	Ant1	5180	17.917	5170.964	5188.881	---	---
		5220	18.026	5211.102	5229.128	---	---
		5240	17.979	5230.934	5248.913	---	---
		5260	18.193	5250.795	5268.989	---	---
		5300	17.886	5290.983	5308.870	---	---
		5320	17.871	5310.951	5328.822	---	---
		5500	17.879	5490.955	5508.835	---	---
		5580	17.967	5570.887	5588.855	---	---
		5700	17.803	5691.061	5708.864	---	---
		5720	18.081	5710.763	5728.845	---	---
		5720_UNII-2C	14.237	5710.763	5725	---	---
		5720_UNII-3	3.845	5725	5728.845	---	---
		5745	18.016	5736.053	5754.069	---	---
		5785	17.912	5776.033	5793.946	---	---
		5825	17.775	5816.112	5833.887	---	---
		11ac40SISO	Ant1	5190	36.056	5171.993	5208.050
5230	36.503			5211.823	5248.327	---	---
5270	36.114			5251.972	5288.086	---	---
5310	36.045			5291.919	5327.965	---	---
5510	36.016			5491.984	5528.000	---	---



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		5550	36.118	5531.954	5568.073	---	---
		5670	36.556	5651.860	5688.416	---	---
		5710	36.335	5691.911	5728.246	---	---
		5710_UNII-2C	33.089	5691.911	5725	---	---
		5710_UNII-3	3.246	5725	5728.246	---	---
		5755	36.122	5736.869	5772.991	---	---
		5795	36.264	5776.839	5813.103	---	---
11ac80SISO	Ant1	5210	75.649	5172.199	5247.849	---	---
		5290	75.565	5252.225	5327.790	---	---
		5530	75.682	5492.049	5567.730	---	---
		5610	75.798	5572.017	5647.815	---	---
		5690	75.775	5651.912	5727.687	---	---
		5690_UNII-2C	73.088	5651.912	5725	---	---
		5690_UNII-3	2.687	5725	5727.687	---	---
		5775	75.783	5737.003	5812.785	---	---



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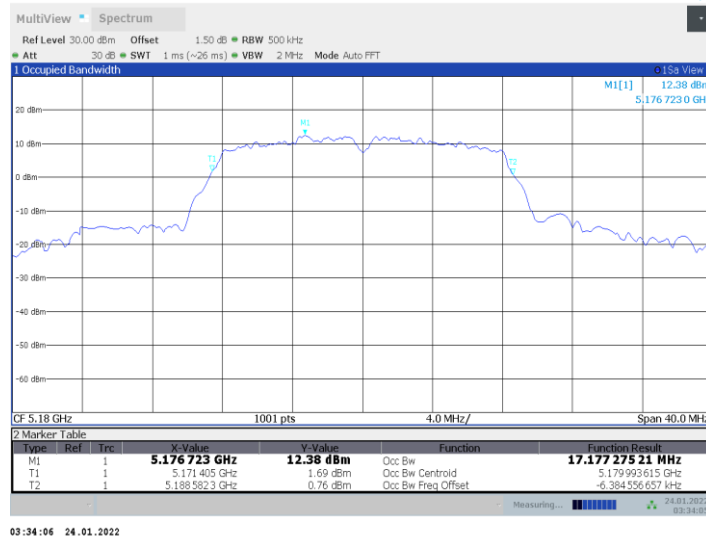
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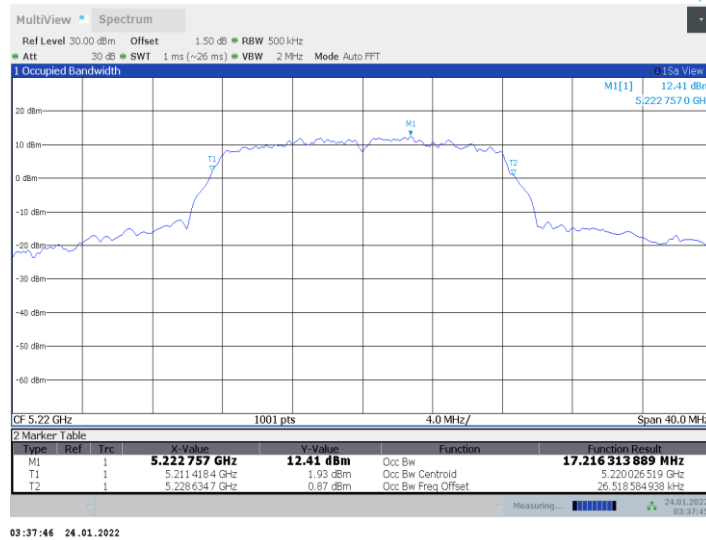
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Test Graphs

11a\_Ant1\_5180



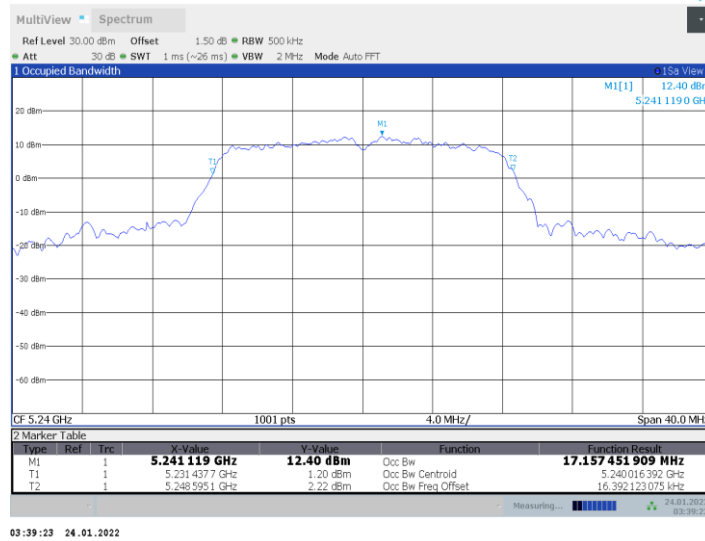
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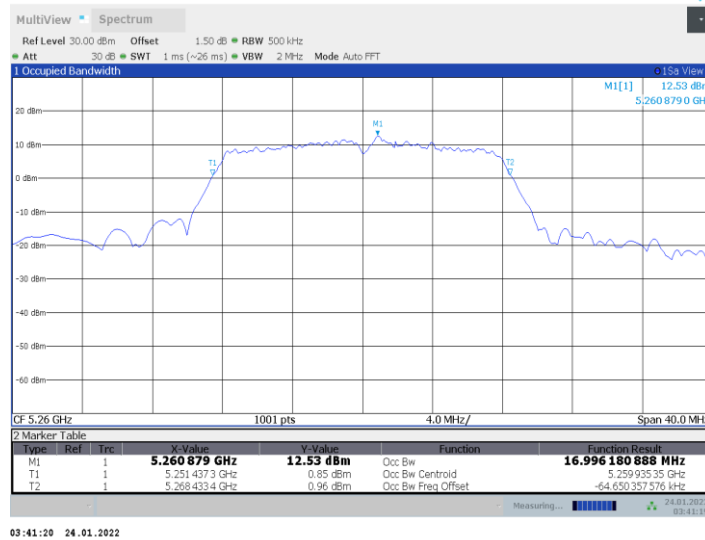
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11a\_Ant1\_5240



11a\_Ant1\_5260

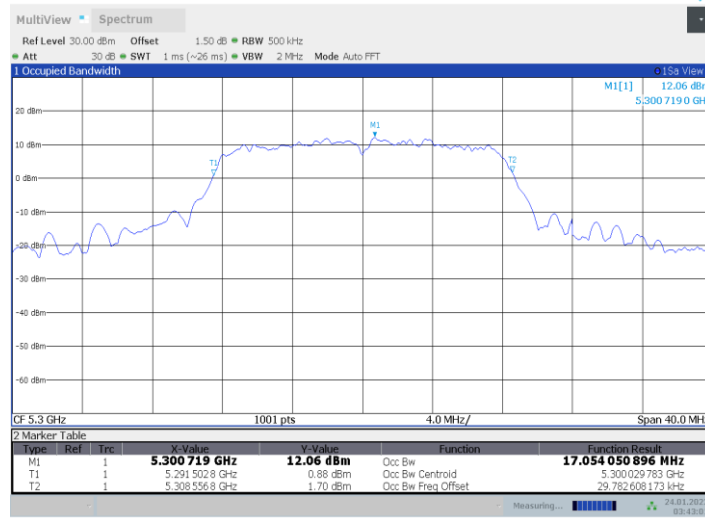


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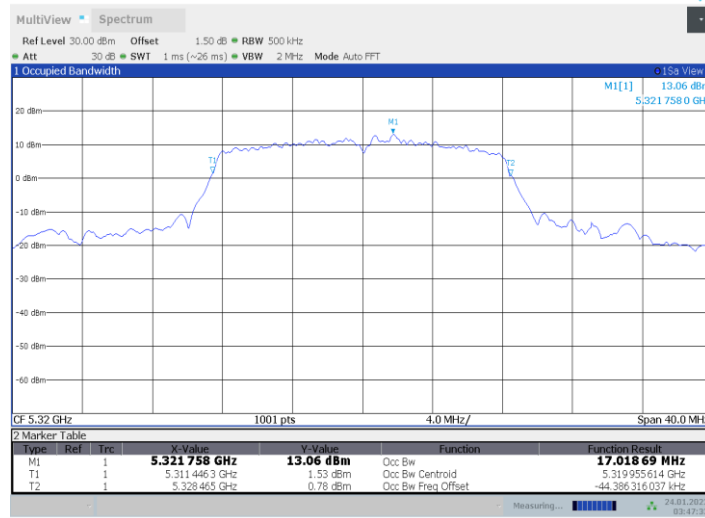
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11a\_Ant1\_5300



03:43:02 24.01.2022

11a\_Ant1\_5320



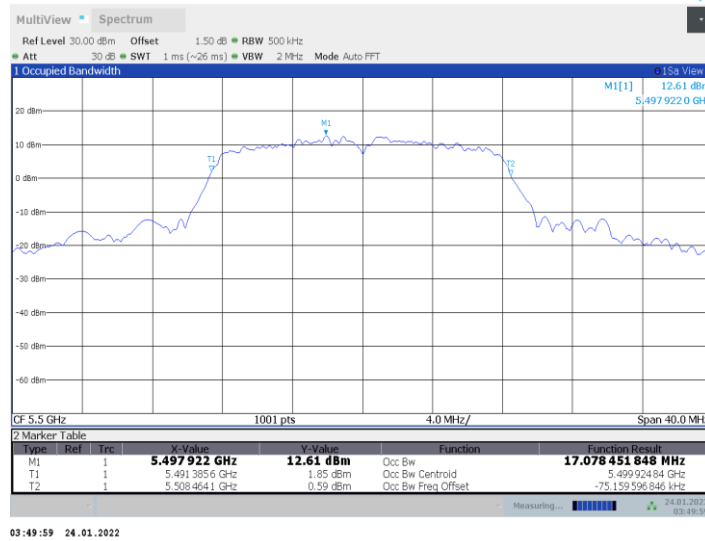
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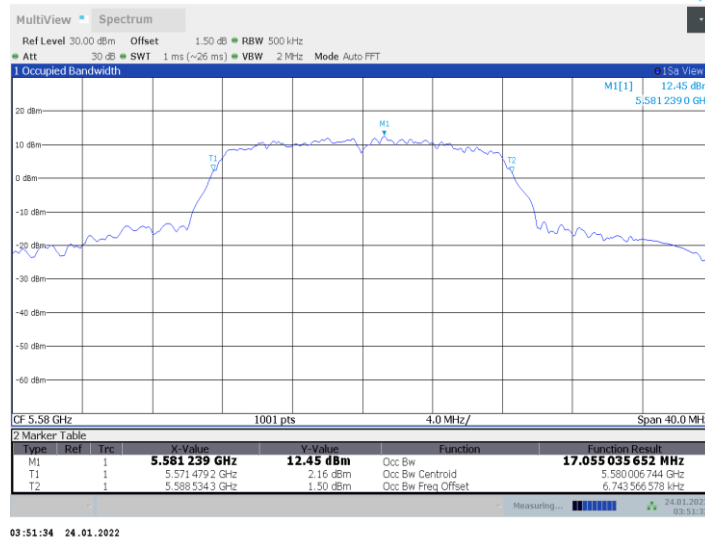
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03:49:59 24.01.2022

11a\_Ant1\_5580



03:51:34 24.01.2022



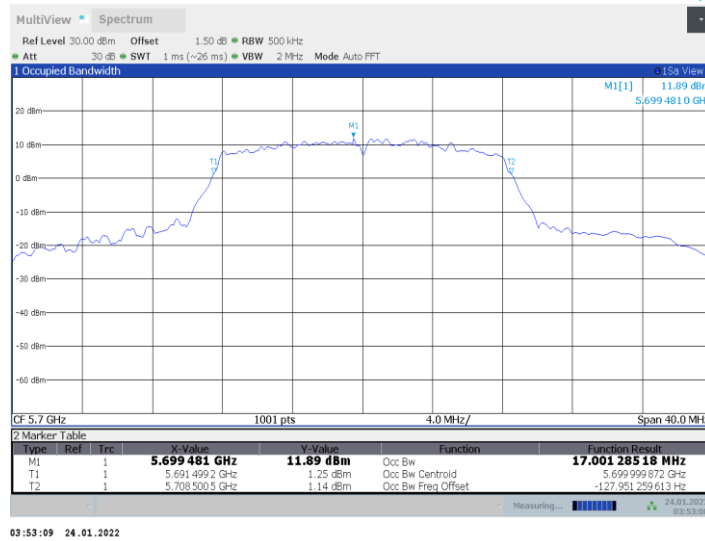
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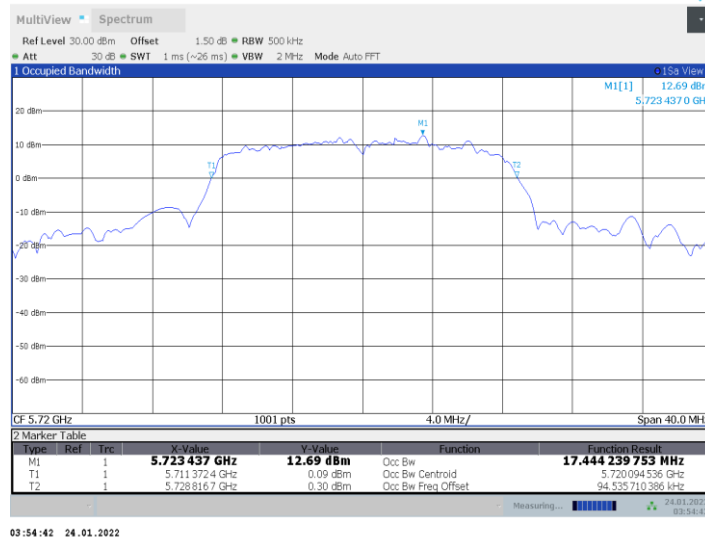


11a\_Ant1\_5700



03:53:09 24.01.2022

11a\_Ant1\_5720



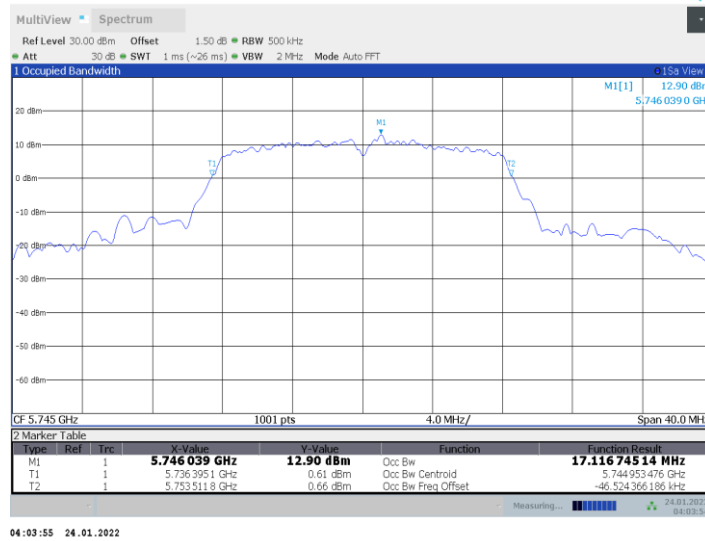
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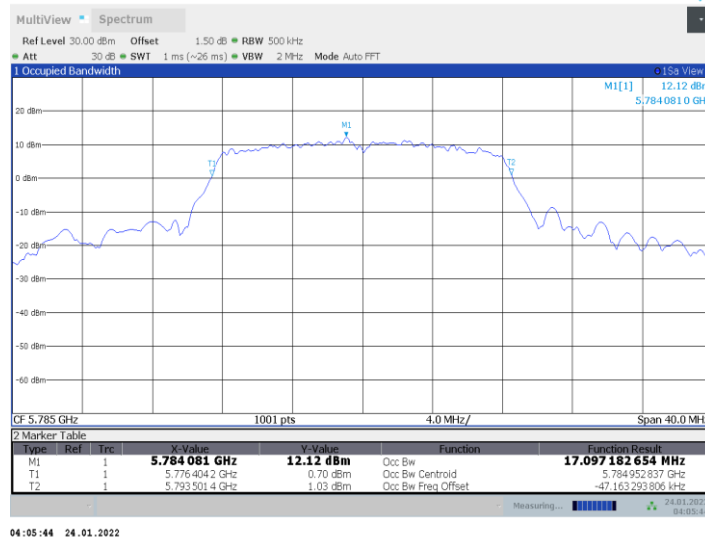
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11a\_Ant1\_5745



04:03:55 24.01.2022

11a\_Ant1\_5785



04:05:44 24.01.2022



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