




# TEST REPORT

**Application No.:** SEWM2210000221RG  
**Applicant:** NetComm Wireless Pty Ltd  
**Address of Applicant:** Level 5, 18-20 Orion Road, Lane Cove, NSW, Australia  
**Manufacturer:** Casa Systems, Inc.  
**Address of Manufacturer:** 100 Old River Road Andover, MA 01810  
**EUT Description:** 5G Wi-Fi 6 Residential Gateway  
**Model No.:** CFW-4222

**Trade Mark:**   
 casa systems

**FCC ID:** XIA-CFW4222  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart E

**Date of Receipt:** 2022/11/01  
**Date of Test:** 2022/11/21 to 2022/12/15  
**Date of Issue:** 2022/12/15

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

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun  
 Wireless Laboratory Manager


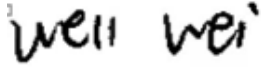


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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/12/15		Original

<b>Prepared By</b>		 <hr/> (Ives Cheng) / Test Engineer
<b>Checked By</b>		 <hr/> (Well Wei) / Reviewer



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## 2 Test Summary

Test Item	Band <sup>[1]</sup>	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 Band II-A Band II-C Band III	--	No limit.	Clause 4.3	Reporting only
Maximum Conducted Output Power	Band I	15.407(a)(ii)	< 1W	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) (ii)	<17dBm/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).		PASS
	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).		PASS
	Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz & out-restricted:(QP)		PASS



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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
<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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**Contents**

1 Version .....2

2 Test Summary .....3

3 General Information .....6

    3.1 Details of Client .....6

    3.2 Test Location .....6

    3.3 Test Facility .....6

    3.4 General Description of EUT .....7

    3.5 Test Environment and Mode .....11

    3.6 Description of Support Units .....11

    3.7 Worst-case configuration and mode .....11

4 Test results and Measurement Data .....12

    4.1 Antenna Requirement .....12

    4.2 AC Power Line Conducted Emissions .....14

    4.3 Duty Cycle .....18

    4.4 Conducted Output Power .....19

    4.5 26dB Emission Bandwidth .....20

    4.6 6dB Emission Bandwidth .....21

    4.7 99% Occupied Bandwidth .....22

    4.8 Power Spectral Density .....23

    4.9 Radiated Spurious Emissions .....24

    4.10 Restricted bands around fundamental frequency .....26

5 Measurement Uncertainty (95% confidence levels, k=2) .....28

6 Equipment List .....29

7 Photographs - Setup Photos .....31



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### 3 General Information

#### 3.1 Details of Client

Applicant:	NetComm Wireless Pty Ltd
Address of Applicant:	Level 5, 18-20 Orion Road, Lane Cove, NSW, Australia
Manufacturer:	Casa Systems, Inc.
Address of Manufacturer:	100 Old River Road Andover, MA 01810

#### 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:	Ives Cheng, Tizzy Song

#### 3.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

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

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

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

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number: 717327




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### 3.4 General Description of EUT

EUT Description:	5G Wi-Fi 6 Residential Gateway	
Model No.:	CFW-4222	
Trade Mark:	 casa systems	
Hardware Version:	V1.1	
Software Version:	CFW4222-CS.NA	
IMEI:	RF Conducted	863109050018212
	RSE & AC power line	863109050015952
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 / 160 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/OFDMA (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:	802.11ac(VHT160)/ax(HE160)
Antenna Type:	PCB Antenna	
Antenna Gain:	5150MHz to 5250MHz: 1.79dBi(Ant3); 1.63dBi(Ant4); 1.49dBi(Ant5); 1.44dBi(Ant6); 5250MHz to 5350MHz: 0.82dBi(Ant3); 1.25dBi(Ant4); 1.63dBi(Ant5); 1.04dBi(Ant6); 5470MHz to 5725MHz: 2.05dBi(Ant3); 1.89dBi(Ant4); 1.64dBi(Ant5); 2.12dBi(Ant6); 5725MHz to 5850MHz: 2.14dBi(Ant3); 2.3dBi(Ant4); 2.33dBi(Ant5); 2.49dBi(Ant6);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
TPC Function:	<input type="checkbox"/> Support, <input checked="" type="checkbox"/> Not Support	
Use Conditions:	Indoor	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11a/n/ac/ax



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Report No.: SEWM2210000221RG06

Rev.: 01

Page: 8 of 824

	<input checked="" type="checkbox"/> MIMO	802.11n/ac/ax: 4Tx & 4Rx
	<input checked="" type="checkbox"/> Diversity	802.11a: 4Tx & 4Rx
RF Cable:	1.5dB	
Remark: 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.		

**Accessory:**

Description	Manufacturer	Model No.	Power Rating
Adapter	Shenzhen Keyu Power Supply Technology Co., Ltd.	KA36B-1203000US	Input:100- 240V~, 50/60Hz, 1.0A Max, Output:12VDC, 3000 mA

**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	36	5180
	40	5200
	48	5240
IEEE 802.11n/ac/ax 40MHz	38	5190
	46	5230
IEEE 802.11ac/ax 80MHz	42	5210



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For UNII Band II-A:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	52	5260
	56	5280
	64	5320
IEEE 802.11n/ac/ax 40MHz	54	5270
	62	5310
IEEE 802.11ac/ax 80MHz	58	5290
IEEE 802.11ax 160MHz	50	5250

For UNII Band II-C:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	100	5500
	116	5580
	140	5700
IEEE 802.11n/ac/ax 40MHz	102	5510
	110	5550
	134	5670
IEEE 802.11ac/ax 80MHz	106	5530
	122	5610
IEEE 802.11ax 160MHz	114	5570

For UNII Band III:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	149	5745
	157	5785
	165	5825
IEEE 802.11n/ac/ax 40MHz	151	5755
	159	5795
IEEE 802.11ac/ax 80MHz	155	5775



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Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddle Channel	144 <sup>[1]</sup>	5720	142 <sup>[2]</sup>	5710
	138 <sup>[3]</sup>	5690		
TDWR Channel	120 <sup>[1]</sup>	5600	124 <sup>[1]</sup>	5620
	128 <sup>[1]</sup>	5640	118 <sup>[2]</sup>	5590
	126 <sup>[2]</sup>	5630	122 <sup>[3]</sup>	5610

Note:

1. The above Frequency and Channel were 802.11a, 802.11n HT20, 802.11ac VHT20 and 802.11ax HE20.
2. The above Frequency and Channel were 802.11n HT40, 802.11ac VHT40 and 802.11ax HE40.
3. The above Frequency and Channel were 802.11ac VHT80 and 802.11ax HE80.



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### 3.5 Test Environment and Mode

<b>Environment Parameter</b>	101.0 kPa Selected Values During Tests	
<b>Relative Humidity</b>	44-46 % RH Ambient	
<b>Value</b>	<b>Temperature(°C)</b>	<b>Voltage(V)</b>
NTNV	22~23	12
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:

<b>Modulation Type</b>	<b>SISO - Data Rate</b>	<b>CDD/MIMO - Data Rate</b>
802.11a	6 Mbps	12 Mbps
802.11n (HT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11n (HT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	MCS0 (58.5 Mbps)
802.11ac (VHT 160)	MCS0 (58.5 Mbps)	MCS0 (117 Mbps)
802.11ax (HE 20)	MCS0 (8 Mbps)	MCS0 (16 Mbps)
802.11ax (HE 40)	MCS0 (16 Mbps)	MCS0 (32 Mbps)
802.11ax (HE 80)	MCS0 (34 Mbps)	MCS0 (68 Mbps)
802.11ax (HE 160)	MCS0 (68 Mbps)	MCS0 (136 Mbps)



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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
<p>The antenna is PCB Antenna and no consideration of replacement.          The best case gain of the antenna is          5150MHz to 5250MHz: 1.79dBi(Ant3); 1.63dBi(Ant4); 1.49dBi(Ant5); 1.44dBi(Ant6);*          5250MHz to 5350MHz: 0.82dBi(Ant3); 1.25dBi(Ant4); 1.63dBi(Ant5); 1.04dBi(Ant6);*          5470MHz to 5725MHz: 2.05dBi(Ant3); 1.89dBi(Ant4); 1.64dBi(Ant5); 2.12dBi(Ant6);*          5725MHz to 5850MHz: 2.14dBi(Ant3); 2.3dBi(Ant4); 2.33dBi(Ant5); 2.49dBi(Ant6);*</p> <p><i>*Note:</i>          The antenna gain are derived from the gain information report provided by the manufacturer.</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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**Cyclic Delay Diversity (CDD) System:**

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,  
 $Array\ Gain = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$ .
- For power measurements on IEEE 802.11 devices:  
 $Array\ Gain = 0 \text{ dB}$  (i.e., no array gain) for  $N_{ANT} \leq 4$ ;  
 $Array\ Gain = 0 \text{ dB}$  (i.e., no array gain) for channel widths  $\geq 40 \text{ MHz}$  for any  $N_{ANT}$ ;  
 $Array\ Gain = 5 \log(N_{ANT}/N_{SS}=1) \text{ dB}$  or  $3 \text{ dB}$ , whichever is less, for  $20\text{-MHz}$  channel widths with  $N_{ANT} \geq 5$ .

Unequal antenna gains, with equal transmit powers. For antenna gains given by  $G_1, G_2, \dots, G_N \text{ dBi}$

- If transmit signals are correlated, then  
 $Directional\ gain = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$  [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- If all transmit signals are completely uncorrelated, then  
 $Directional\ gain = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}] \text{ dBi}$

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

Operation Frequency	ANT Gain1 (dBi)	ANT Gain2 (dBi)	ANT Gain3 (dBi)	ANT Gain4 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	1.79	1.63	1.49	1.44	1.59	7.61	0	1.61
5250MHz to 5350MHz	0.82	1.25	1.63	1.04	1.20	7.21	0	1.21
5470MHz to 5725MHz	2.05	1.89	1.64	2.12	1.93	7.95	0	1.95
5725MHz to 5850MHz	2.14	2.30	2.33	2.49	2.32	8.34	0	2.34

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi ) =7.61 – 6 = 1.61

5250MHz to 5350MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi ) =7.21 – 6 = 1.21

5470MHz to 5725MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi ) =7.95 – 6 = 1.95

5725MHz to 5850MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi ) =8.34 – 6 = 2.34



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## 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207		
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"> <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>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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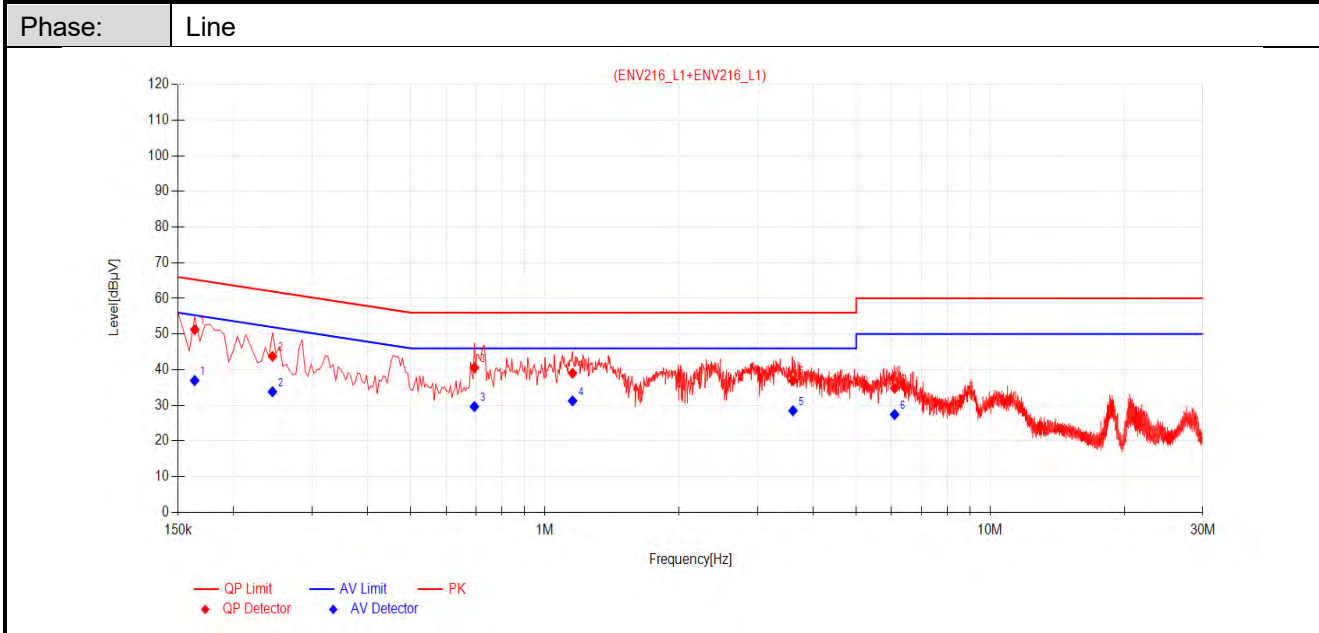
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**Measurement Data**

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.



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	0.1635	10.69	40.55	51.24	65.28	14.04	26.26	36.95	55.28	18.33	PASS
2	0.2445	10.80	32.93	43.73	61.94	18.21	23.03	33.83	51.94	18.11	PASS
3	0.6945	10.58	29.99	40.57	56.00	15.43	19.08	29.66	46.00	16.34	PASS
4	1.1535	10.71	28.28	38.99	56.00	17.01	20.55	31.26	46.00	14.74	PASS
5	3.6060	10.71	26.22	36.93	56.00	19.07	17.78	28.49	46.00	17.51	PASS
6	6.0990	10.68	24.13	34.81	60.00	25.19	16.74	27.42	50.00	22.58	PASS

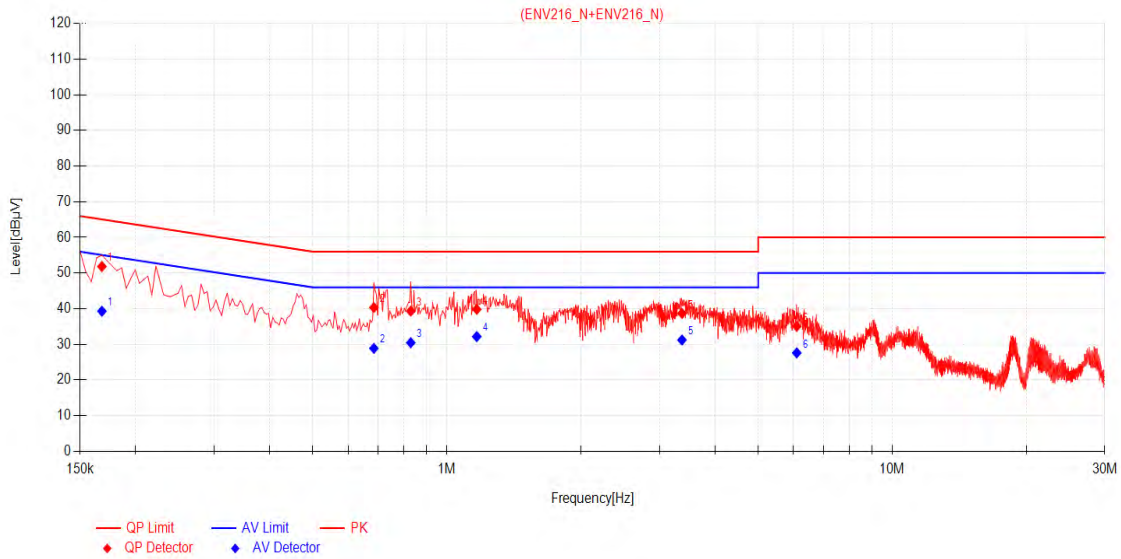
**Remark:**

- 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]





Phase:	Neutral
--------	---------



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1680	10.72	41.11	51.83	65.06	13.23	28.58	39.30	55.06	15.76	PASS
2	0.6855	10.79	29.53	40.32	56.00	15.68	18.09	28.88	46.00	17.12	PASS
3	0.8295	10.79	28.54	39.33	56.00	16.67	19.68	30.47	46.00	15.53	PASS
4	1.1670	10.75	29.08	39.83	56.00	16.17	21.43	32.18	46.00	13.82	PASS
5	3.3720	10.64	28.03	38.67	56.00	17.33	20.59	31.23	46.00	14.77	PASS
6	6.1035	10.57	24.49	35.06	60.00	24.94	17.03	27.60	50.00	22.40	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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Rev.: 01  
Page: 18 of 824

### 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)(ii)	
Test Method:	ANSI C63.10 :2013 Section 12.3.3	
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 1W(30dBm)
	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 Section 12.4.1
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: <b>Appendix</b>	



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### 4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013 Section 12.4.1	
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: <b>Appendix</b>		



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### 4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013 Section 12.4.2
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: <b>Appendix</b>	



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### 4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)(ii)	
Test Method:	ANSI C63.10: 2013 Section 12.5 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 17dBm/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 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

**Test Setup:**

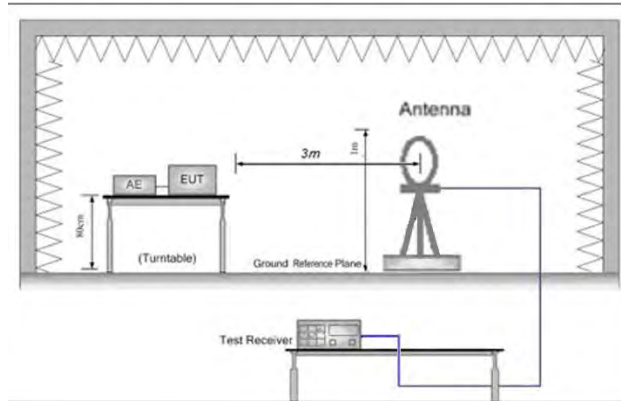


Figure 1. 9kHz to 30MHz

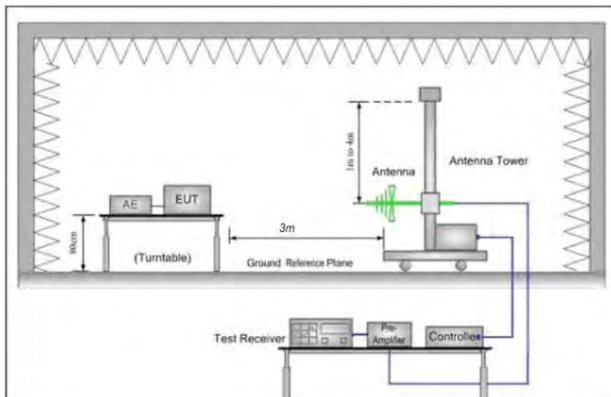


Figure 1. 30MHz to 1GHz

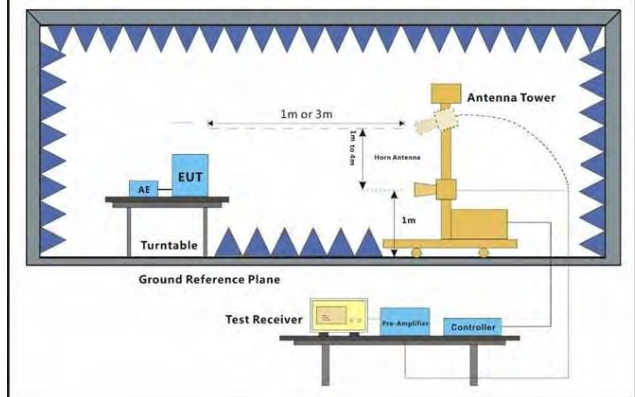


Figure 2. Above 1 GHz

**Test Procedure:**

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



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	<p>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by <math>20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}</math>.</p>
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq 3 \text{ MHz}</math></li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq [3 \cdot \text{RBW}]</math></li> <li>• Detector = RMS (power averaging), if span / (# of points in sweep) <math>\leq (\text{RBW} / 2)</math>. 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.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul>
<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: <b>Appendix</b></p>	



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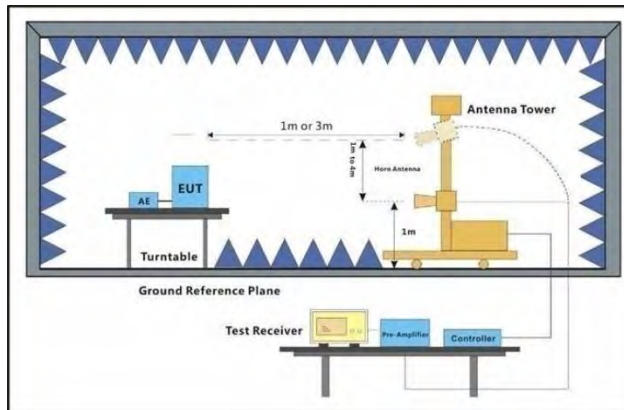
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**4.10 Restricted bands around fundamental frequency**

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 12.7		
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	74.0	Peak Value

Test Setup:



Test Procedure:

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



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	Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ [3 *RBW]</li> <li>• 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.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
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	±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)
<p>Remark:                      The <math>U_{lab}</math> (lab Uncertainty) is less than <math>U_{CISPR/ETSI}</math> (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.</p>		



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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	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
				2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Wideband Radio Communication Tester	ROHDE &SCHWARZ	CMW500	SUWI-01-16-05	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					
Test 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-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-15	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-01-02-06	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-04	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR



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Report No.: SEWM2210000221RG06  
Rev.: 01  
Page: 31 of 824

## 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Report No.: SEWM2210000221RG06

Rev.: 01

Page: 32 of 824

# Appendix



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**Emission Bandwidth  
Test Result**

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a-CDD	Ant3	5180	20.32	5169.92	5190.24	Reporting only
	Ant4	5180	20.52	5169.76	5190.28	
	Ant5	5180	20.52	5169.68	5190.20	
	Ant6	5180	20.40	5169.68	5190.08	
	Ant3	5220	20.56	5209.68	5230.24	
	Ant4	5220	20.40	5209.68	5230.08	
	Ant5	5220	20.24	5209.76	5230.00	
	Ant6	5220	20.28	5209.80	5230.08	
	Ant3	5240	20.44	5229.64	5250.08	
	Ant4	5240	20.40	5229.64	5250.04	
	Ant5	5240	20.20	5229.72	5249.92	
	Ant6	5240	20.60	5229.76	5250.36	
	Ant3	5260	20.32	5249.72	5270.04	
	Ant4	5260	20.28	5249.76	5270.04	
	Ant5	5260	20.56	5249.68	5270.24	
	Ant6	5260	20.44	5249.68	5270.12	
	Ant3	5300	20.56	5289.68	5310.24	
	Ant4	5300	20.60	5289.64	5310.24	
	Ant5	5300	20.68	5289.68	5310.36	
	Ant6	5300	20.64	5289.68	5310.32	
	Ant3	5320	20.24	5309.76	5330.00	
	Ant4	5320	20.28	5309.76	5330.04	
	Ant5	5320	20.28	5309.72	5330.00	
	Ant6	5320	20.72	5309.64	5330.36	
	Ant3	5500	20.56	5489.76	5510.32	
	Ant4	5500	20.56	5489.76	5510.32	
	Ant5	5500	20.60	5489.76	5510.36	
	Ant6	5500	20.48	5489.76	5510.24	
	Ant3	5580	20.52	5569.76	5590.28	
	Ant4	5580	20.64	5569.72	5590.36	
	Ant5	5580	20.52	5569.76	5590.28	
	Ant6	5580	20.32	5569.72	5590.04	
	Ant3	5700	20.56	5689.76	5710.32	
	Ant4	5700	20.60	5689.76	5710.36	
	Ant5	5700	20.52	5689.80	5710.32	
	Ant6	5700	20.56	5689.72	5710.28	
	Ant3	5720	20.60	5709.76	5730.36	
	Ant4	5720	20.24	5709.80	5730.04	
	Ant5	5720	20.60	5709.72	5730.32	
	Ant6	5720	20.24	5709.76	5730.00	
	Ant3	5720 UNII-2C	15.24	5709.76	5725	
	Ant4	5720 UNII-2C	15.2	5709.80	5725	
	Ant5	5720 UNII-2C	15.28	5709.72	5725	
	Ant6	5720 UNII-2C	15.24	5709.76	5725	
	Ant3	5720 UNII-3	5.36	5725	5730.36	
	Ant4	5720 UNII-3	5.04	5725	5730.04	
	Ant5	5720 UNII-3	5.32	5725	5730.32	
	Ant6	5720 UNII-3	5	5725	5730.00	
Ant3	5745	20.60	5734.72	5755.32		
Ant4	5745	20.48	5734.80	5755.28		
Ant5	5745	20.60	5734.76	5755.36		
Ant6	5745	20.60	5734.72	5755.32		



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	Ant3	5785	20.60	5774.72	5795.32
	Ant4	5785	20.60	5774.72	5795.32
	Ant5	5785	20.56	5774.76	5795.32
	Ant6	5785	20.60	5774.72	5795.32
	Ant3	5825	20.56	5814.76	5835.32
	Ant4	5825	20.44	5814.84	5835.28
	Ant5	5825	20.64	5814.68	5835.32
	Ant6	5825	20.56	5814.76	5835.32
11ax20MIMO	Ant3	5180	22.04	5169.04	5191.08
	Ant4	5180	21.92	5168.84	5190.76
	Ant5	5180	21.52	5169.24	5190.76
	Ant6	5180	21.72	5169.32	5191.04
	Ant3	5220	21.92	5208.96	5230.88
	Ant4	5220	21.88	5209.08	5230.96
	Ant5	5220	22.00	5208.84	5230.84
	Ant6	5220	21.84	5209.24	5231.08
	Ant3	5240	22.24	5228.96	5251.20
	Ant4	5240	21.56	5229.20	5250.76
	Ant5	5240	21.72	5229.20	5250.92
	Ant6	5240	21.96	5229.04	5251.00
	Ant3	5260	21.56	5249.24	5270.80
	Ant4	5260	22.16	5249.08	5271.24
	Ant5	5260	21.80	5249.04	5270.84
	Ant6	5260	22.12	5248.88	5271.00
	Ant3	5300	22.04	5288.96	5311.00
	Ant4	5300	22.32	5288.92	5311.24
	Ant5	5300	22.08	5288.84	5310.92
	Ant6	5300	21.92	5289.00	5310.92
	Ant3	5320	21.68	5309.20	5330.88
	Ant4	5320	22.04	5308.76	5330.80
	Ant5	5320	22.04	5309.04	5331.08
	Ant6	5320	22.24	5308.76	5331.00
	Ant3	5500	21.80	5489.32	5511.12
	Ant4	5500	22.08	5488.92	5511.00
	Ant5	5500	21.80	5489.04	5510.84
	Ant6	5500	22.16	5489.04	5511.20
	Ant3	5580	22.20	5569.04	5591.24
	Ant4	5580	21.88	5569.28	5591.16
	Ant5	5580	21.76	5569.12	5590.88
	Ant6	5580	21.92	5569.16	5591.08
	Ant3	5700	21.64	5689.12	5710.76
	Ant4	5700	21.68	5689.00	5710.68
	Ant5	5700	21.96	5688.84	5710.80
	Ant6	5700	21.68	5689.24	5710.92
	Ant3	5720	21.76	5709.20	5730.96
	Ant4	5720	21.84	5709.20	5731.04
	Ant5	5720	21.52	5709.16	5730.68
	Ant6	5720	21.72	5709.12	5730.84
	Ant3	5720 UNII-2C	15.8	5709.20	5725
	Ant4	5720 UNII-2C	15.8	5709.20	5725
Ant5	5720 UNII-2C	15.84	5709.16	5725	
Ant6	5720 UNII-2C	15.88	5709.12	5725	
Ant3	5720 UNII-3	5.96	5725	5730.96	
Ant4	5720 UNII-3	6.04	5725	5731.04	
Ant5	5720 UNII-3	5.68	5725	5730.68	
Ant6	5720 UNII-3	5.84	5725	5730.84	
Ant3	5745	21.96	5733.92	5755.88	



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	Ant4	5745	21.40	5734.32	5755.72
	Ant5	5745	21.80	5734.24	5756.04
	Ant6	5745	22.16	5733.88	5756.04
	Ant3	5785	21.68	5774.16	5795.84
	Ant4	5785	21.68	5774.04	5795.72
	Ant5	5785	22.16	5773.96	5796.12
	Ant6	5785	21.68	5774.32	5796.00
	Ant3	5825	21.56	5814.16	5835.72
	Ant4	5825	21.60	5814.20	5835.80
	Ant5	5825	22.00	5814.12	5836.12
	Ant6	5825	22.16	5814.00	5836.16
11ax40MIMO	Ant3	5190	40.32	5169.84	5210.16
	Ant4	5190	40.32	5169.76	5210.08
	Ant5	5190	40.40	5169.84	5210.24
	Ant6	5190	40.56	5169.76	5210.32
	Ant3	5230	40.48	5209.76	5250.24
	Ant4	5230	40.32	5209.76	5250.08
	Ant5	5230	40.32	5209.84	5250.16
	Ant6	5230	40.40	5209.76	5250.16
	Ant3	5270	40.40	5249.84	5290.24
	Ant4	5270	40.40	5249.76	5290.16
	Ant5	5270	40.64	5249.68	5290.32
	Ant6	5270	40.48	5249.92	5290.40
	Ant3	5310	40.64	5289.68	5330.32
	Ant4	5310	40.24	5289.92	5330.16
	Ant5	5310	40.56	5289.76	5330.32
	Ant6	5310	40.64	5289.60	5330.24
	Ant3	5510	40.32	5489.68	5530.00
	Ant4	5510	40.40	5489.84	5530.24
	Ant5	5510	40.40	5489.84	5530.24
	Ant6	5510	40.32	5489.84	5530.16
	Ant3	5550	40.16	5529.92	5570.08
	Ant4	5550	40.80	5529.68	5570.48
	Ant5	5550	40.88	5529.44	5570.32
	Ant6	5550	40.64	5529.68	5570.32
	Ant3	5670	40.32	5649.68	5690.00
	Ant4	5670	40.24	5649.92	5690.16
	Ant5	5670	40.40	5649.84	5690.24
	Ant6	5670	40.40	5649.68	5690.08
	Ant3	5710	40.48	5689.76	5730.24
	Ant4	5710	40.48	5689.76	5730.24
	Ant5	5710	40.16	5690.00	5730.16
	Ant6	5710	40.16	5689.92	5730.08
	Ant3	5710 UNII-2C	35.24	5689.76	5725
	Ant4	5710 UNII-2C	35.24	5689.76	5725
	Ant5	5710 UNII-2C	35	5690.00	5725
	Ant6	5710 UNII-2C	35.08	5689.92	5725
	Ant3	5710 UNII-3	5.24	5725	5730.24
	Ant4	5710 UNII-3	5.24	5725	5730.24
	Ant5	5710 UNII-3	5.16	5725	5730.16
	Ant6	5710 UNII-3	5.08	5725	5730.08
Ant3	5755	40.48	5734.76	5775.24	
Ant4	5755	40.32	5734.92	5775.24	
Ant5	5755	40.48	5734.68	5775.16	
Ant6	5755	40.40	5734.68	5775.08	
Ant3	5795	40.48	5774.76	5815.24	
Ant4	5795	40.48	5774.84	5815.32	



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 t (86-512) 62992980 sgs.china@sgs.com

	Ant5	5795	40.48	5774.76	5815.24
	Ant6	5795	40.40	5774.76	5815.16
11ax80MIMO	Ant3	5210	82.72	5168.88	5251.60
	Ant4	5210	82.56	5168.88	5251.44
	Ant5	5210	83.04	5168.40	5251.44
	Ant6	5210	82.72	5168.72	5251.44
	Ant3	5290	82.40	5248.72	5331.12
	Ant4	5290	82.56	5248.72	5331.28
	Ant5	5290	82.24	5248.88	5331.12
	Ant6	5290	82.88	5248.56	5331.44
	Ant3	5530	82.40	5488.88	5571.28
	Ant4	5530	82.56	5488.88	5571.44
	Ant5	5530	82.56	5488.72	5571.28
	Ant6	5530	82.56	5488.72	5571.28
	Ant3	5610	83.04	5568.40	5651.44
	Ant4	5610	82.40	5568.72	5651.12
	Ant5	5610	82.72	5568.72	5651.44
	Ant6	5610	82.88	5568.72	5651.60
	Ant3	5690	82.88	5648.72	5731.60
	Ant4	5690	82.40	5648.88	5731.28
	Ant5	5690	82.72	5648.72	5731.44
	Ant6	5690	83.04	5648.56	5731.60
	Ant3	5690_UNII-2C	76.28	5648.72	5725
	Ant4	5690_UNII-2C	76.12	5648.88	5725
	Ant5	5690_UNII-2C	76.28	5648.72	5725
	Ant6	5690_UNII-2C	76.44	5648.56	5725
	Ant3	5690_UNII-3	6.6	5725	5731.60
	Ant4	5690_UNII-3	6.28	5725	5731.28
	Ant5	5690_UNII-3	6.44	5725	5731.44
	Ant6	5690_UNII-3	6.6	5725	5731.60
	Ant3	5775	82.88	5733.56	5816.44
	Ant4	5775	82.56	5733.72	5816.28
	Ant5	5775	82.72	5733.72	5816.44
	Ant6	5775	82.88	5733.72	5816.60
11ax160MIMO	Ant3	5250	165.12	5167.44	5332.56
	Ant4	5250	165.44	5167.44	5332.88
	Ant5	5250	164.48	5167.76	5332.24
	Ant6	5250	165.76	5167.12	5332.88
	Ant3	5570	165.12	5487.44	5652.56
	Ant4	5570	165.76	5487.12	5652.88
	Ant5	5570	165.12	5487.44	5652.56
Ant6	5570	165.76	5487.12	5652.88	

**Remark:**

For 802.11n HT20/ac VHT20/ax HE20, 802.11n HT40/ac VHT40/ax HE40, ac VHT80/ax HE80 and ac VHT160/ax HE160 mode, the whole testing have assessed only, 802.11ax HT20/40/80/160 by referring to their higher output power.



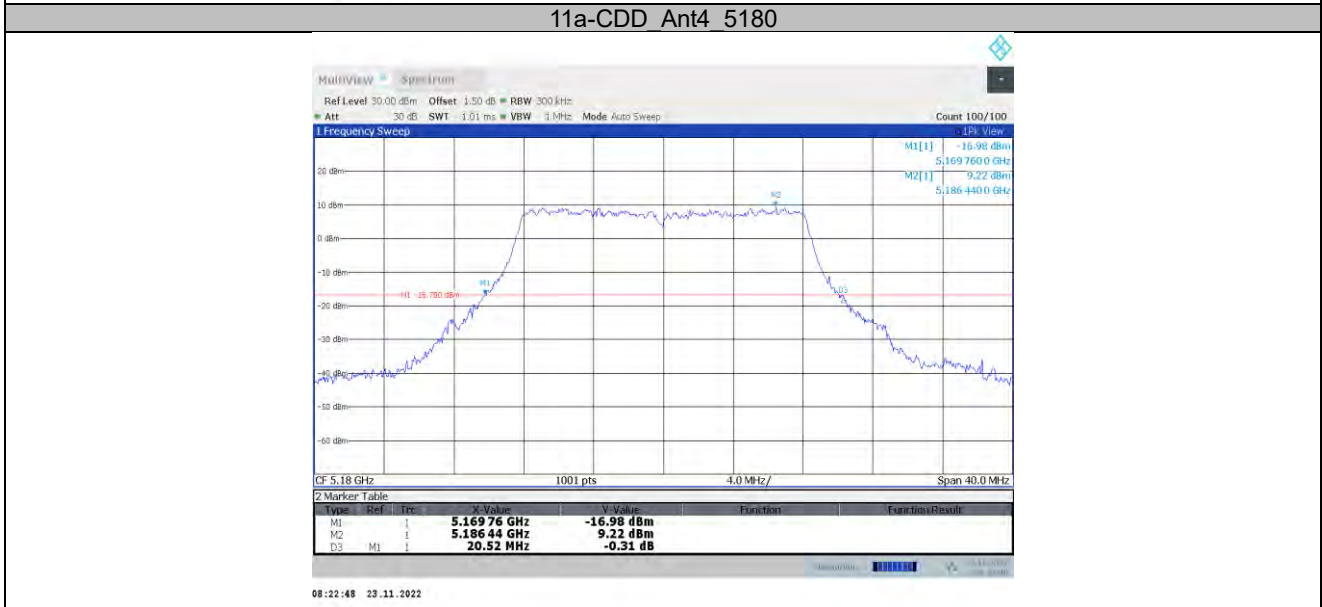
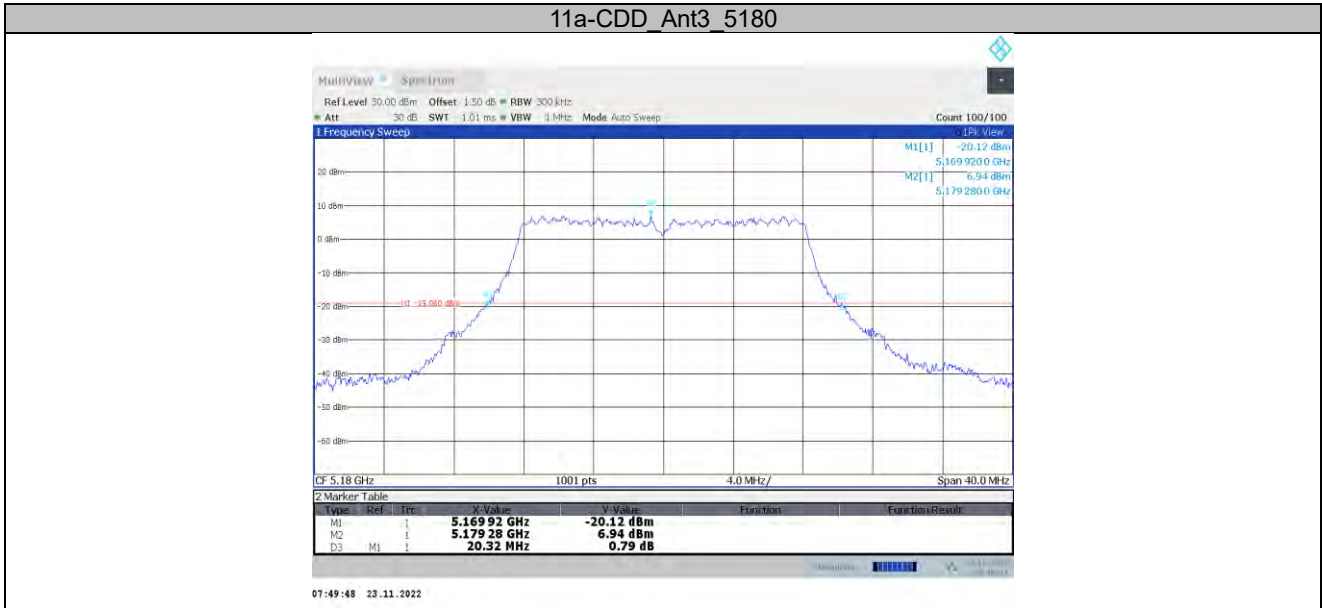
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Test Graphs

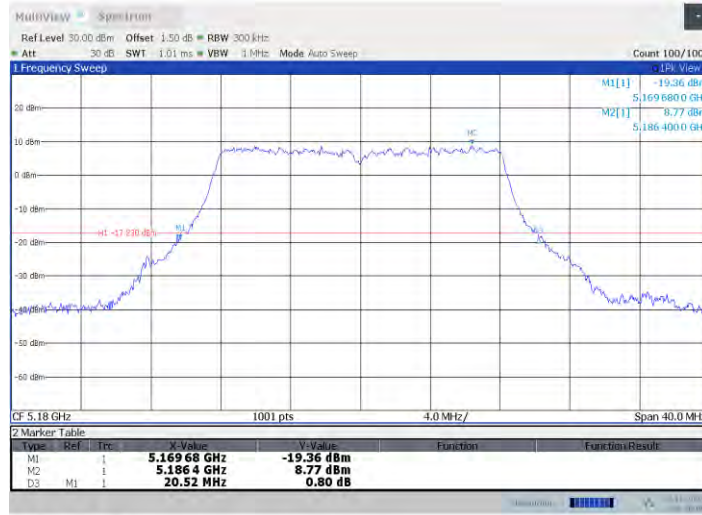


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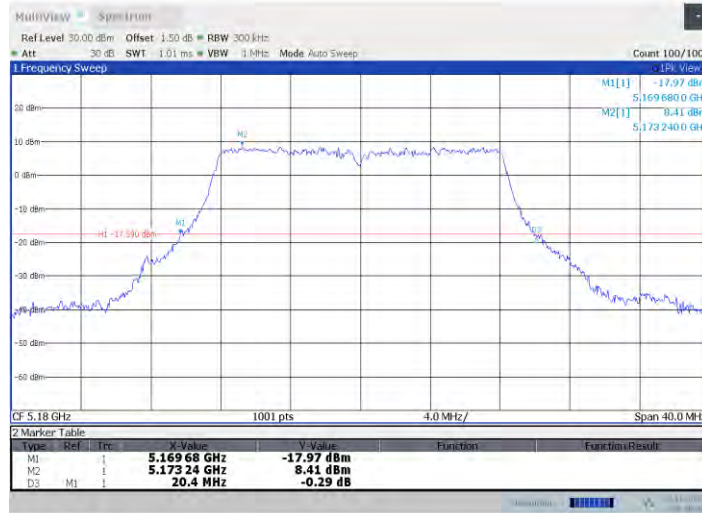
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11a-CDD Ant5 5180



08:28:09 23.11.2022

11a-CDD Ant6 5180



08:38:27 23.11.2022

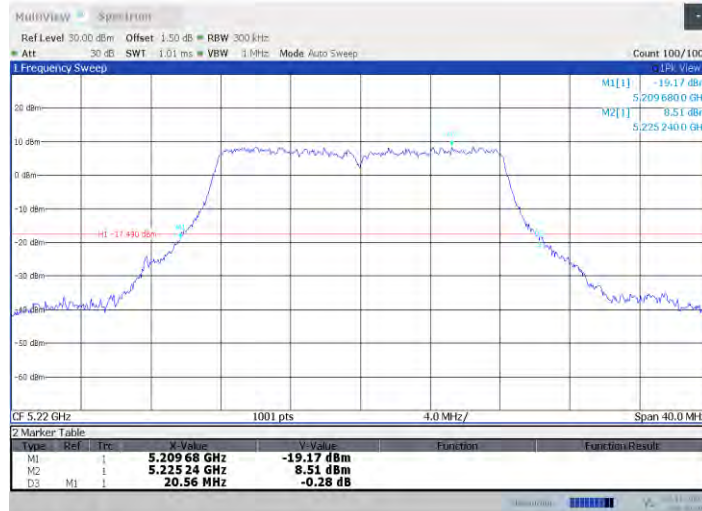


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11a-CDD Ant3 5220



08:52:29 23.11.2022

11a-CDD Ant4 5220



08:53:23 23.11.2022

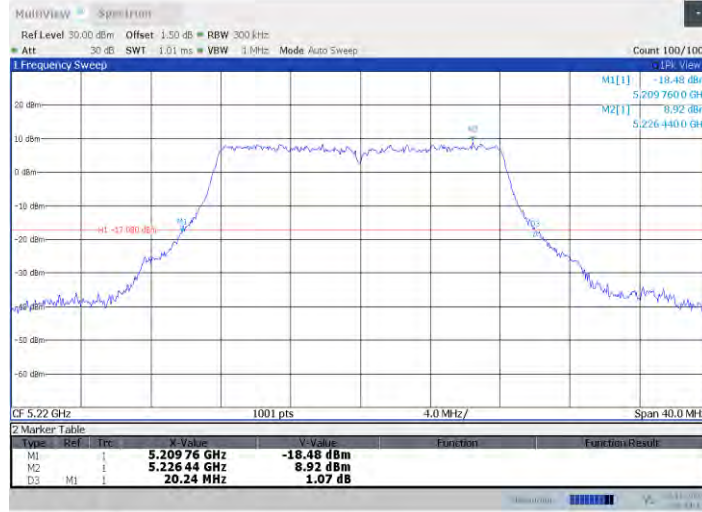


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11a-CDD Ant5 5220



08:54:17 23.11.2022

11a-CDD Ant6 5220



08:55:11 23.11.2022



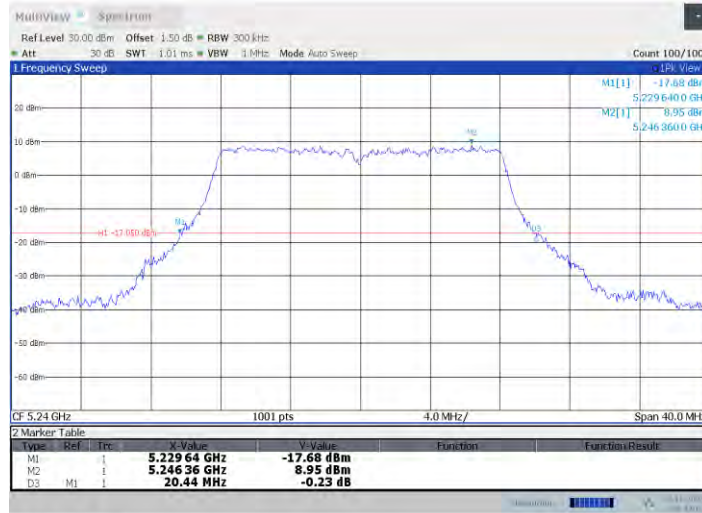
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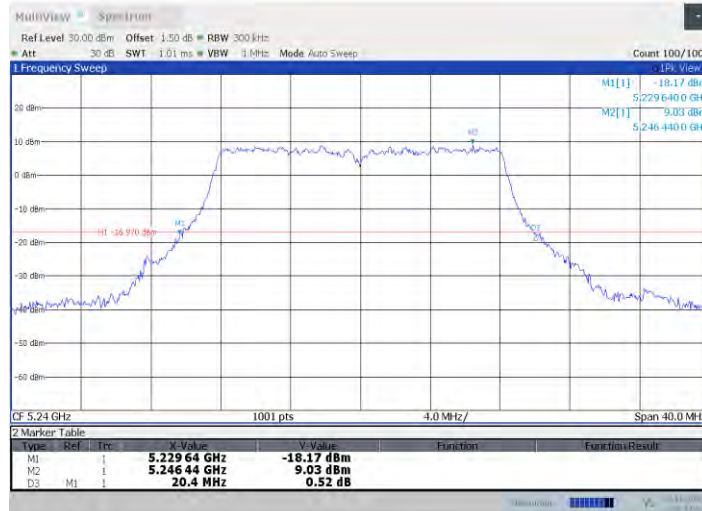


11a-CDD Ant3 5240



08:57:02 23.11.2022

11a-CDD Ant4 5240



08:57:55 23.11.2022



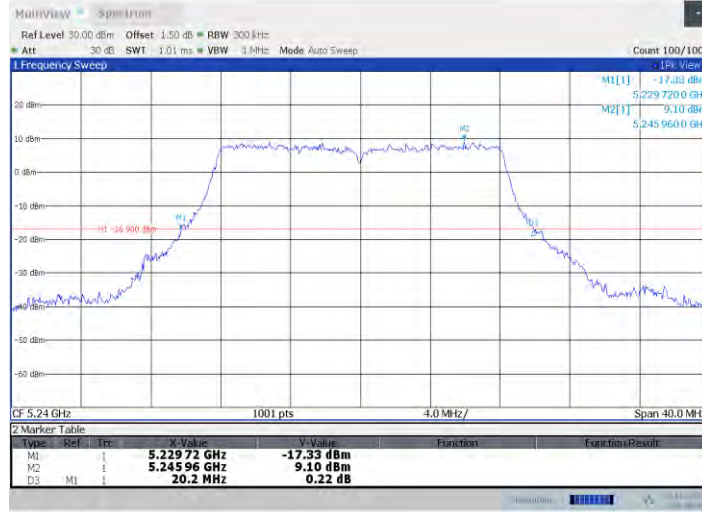
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11a-CDD Ant5 5240



08:58:49 23.11.2022

11a-CDD Ant6 5240



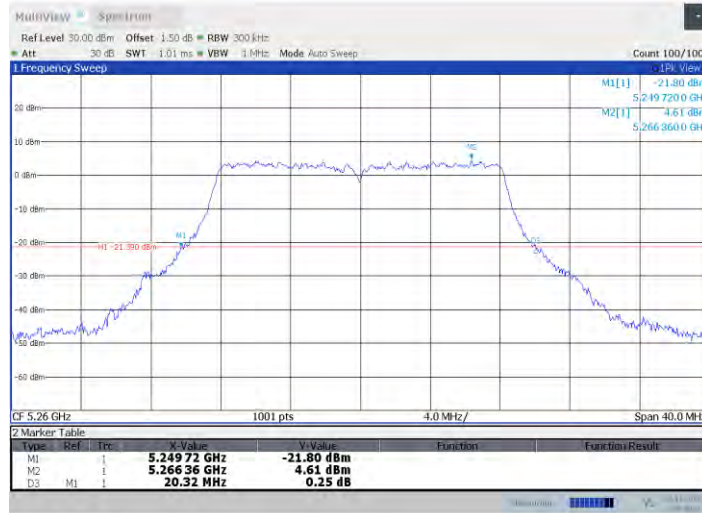
08:59:43 23.11.2022



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11a-CDD Ant3 5260



09:02:22 23.11.2022

11a-CDD Ant4 5260



09:03:15 23.11.2022

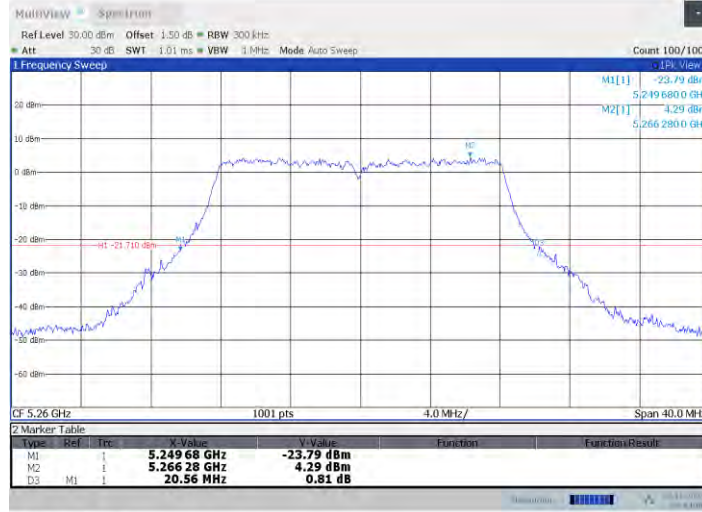


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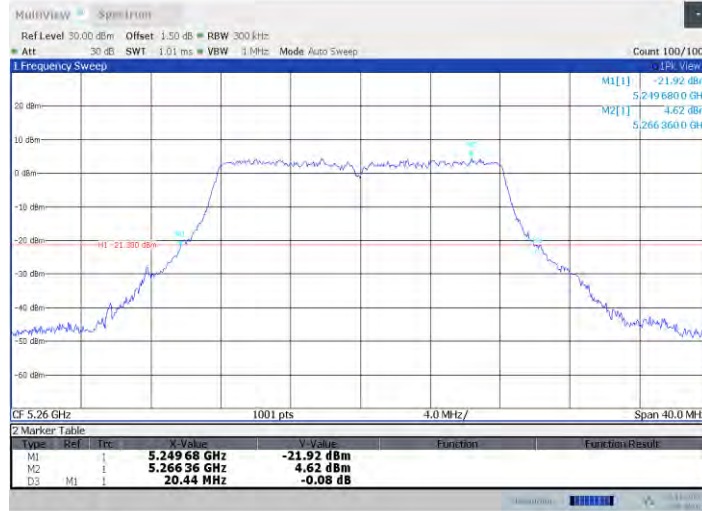
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11a-CDD Ant5 5260



09:04:09 23.11.2022

11a-CDD Ant6 5260



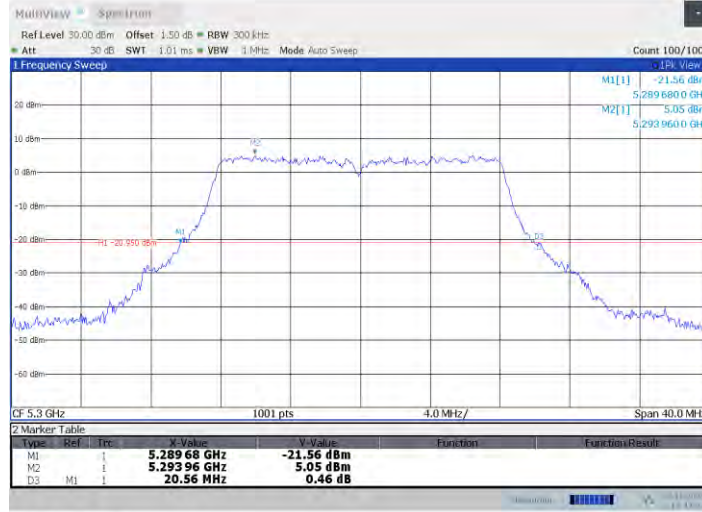
09:05:03 23.11.2022



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11a-CDD Ant3 5300



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11a-CDD Ant4 5300



12:48:18 23.11.2022

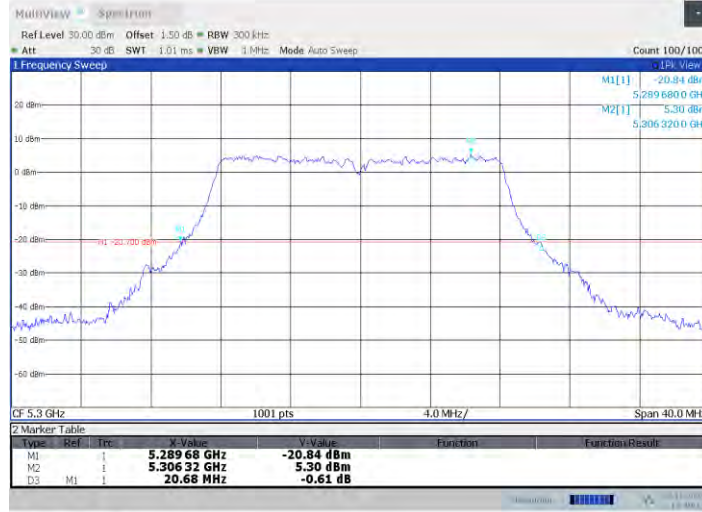


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11a-CDD Ant5 5300



12:49:12 23.11.2022

11a-CDD Ant6 5300



12:50:07 23.11.2022

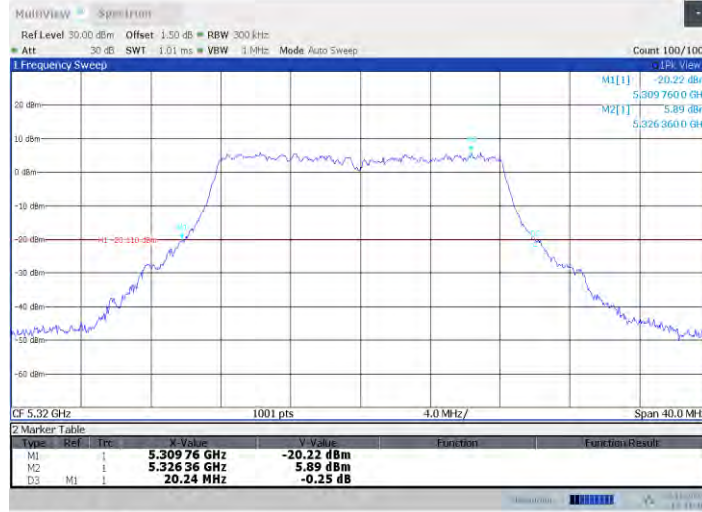


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11a-CDD Ant3 5320



12:51:46 23.11.2022

11a-CDD Ant4 5320



12:52:39 23.11.2022



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11a-CDD Ant5 5320



12:53:34 23.11.2022

11a-CDD Ant6 5320



12:54:28 23.11.2022



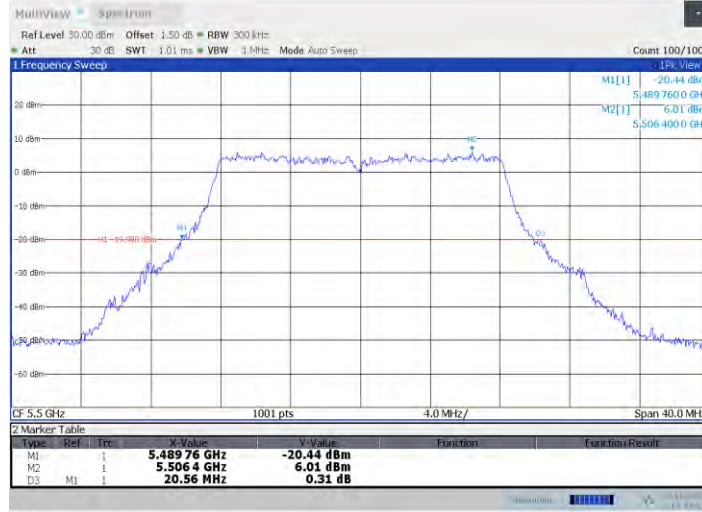
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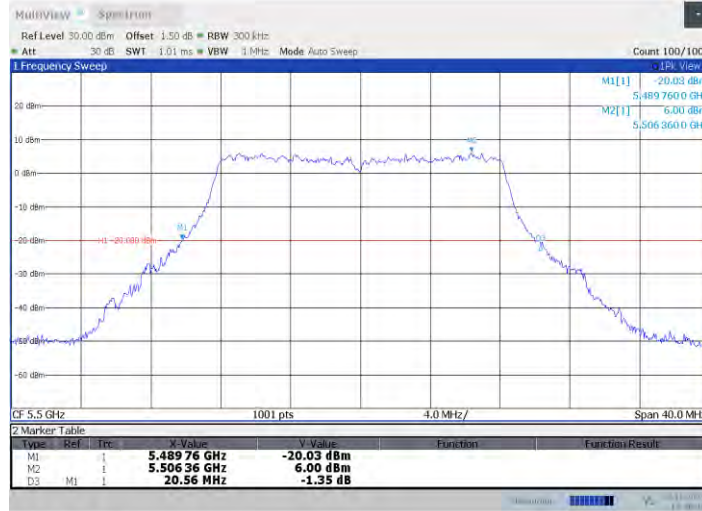


11a-CDD Ant3 5500



12:57:52 23.11.2022

11a-CDD Ant4 5500



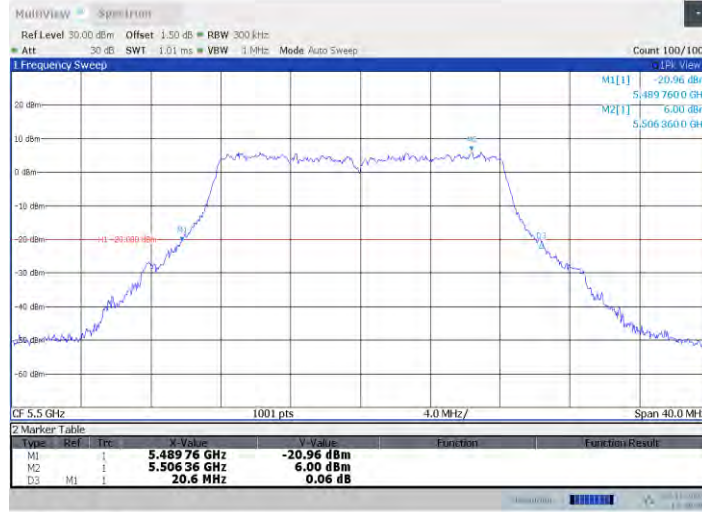
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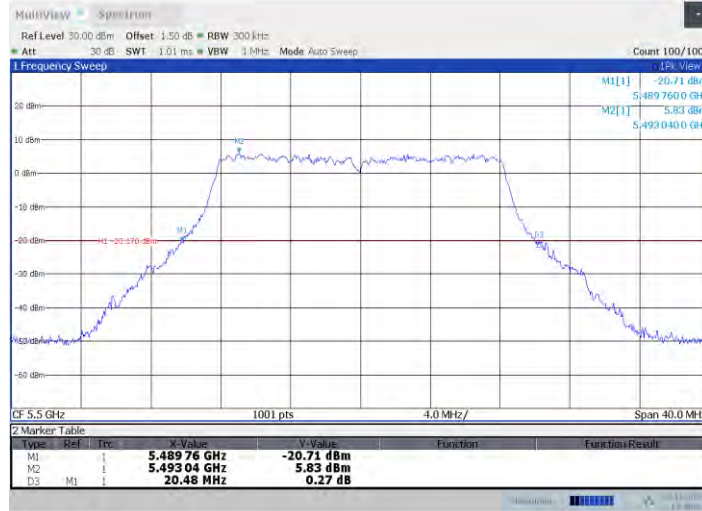
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11a-CDD Ant5 5500



12:59:49 23.11.2022

11a-CDD Ant6 5500



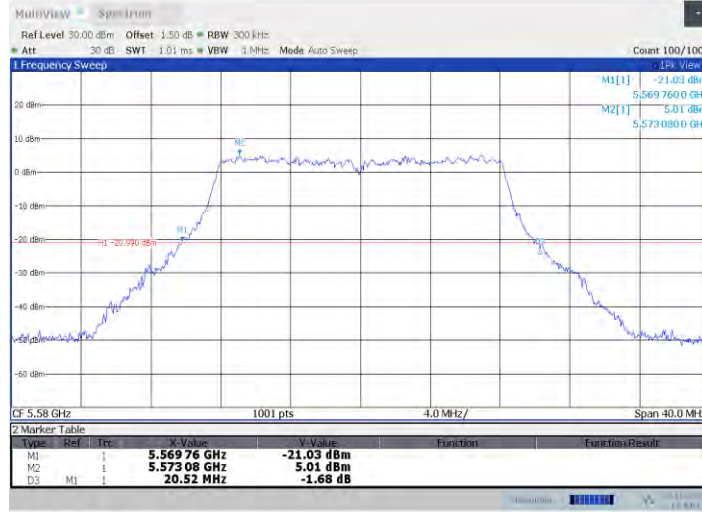
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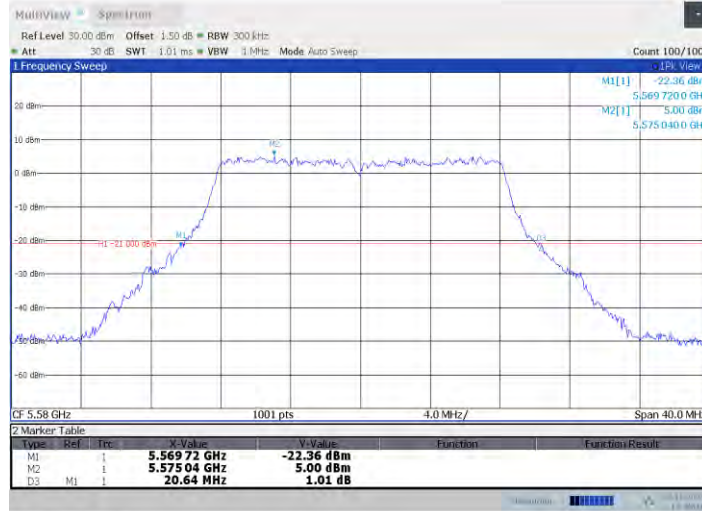
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11a-CDD Ant3 5580



13:04:18 23.11.2022

11a-CDD Ant4 5580



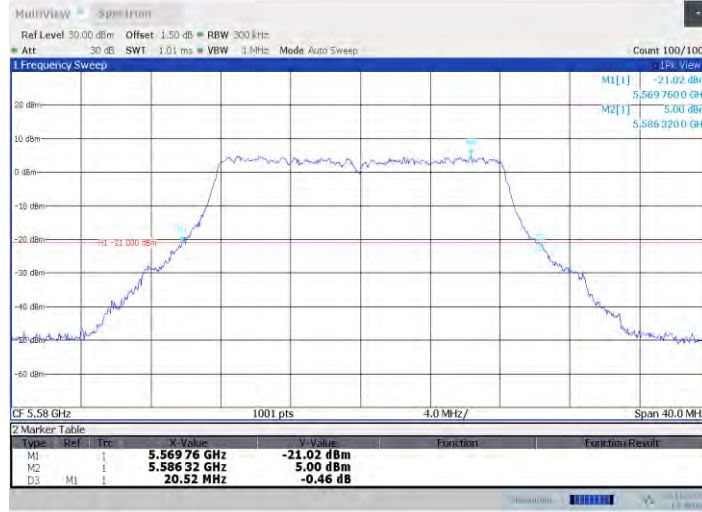
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11a-CDD Ant5 5580



13:06:05 23.11.2022

11a-CDD Ant6 5580



13:07:00 23.11.2022



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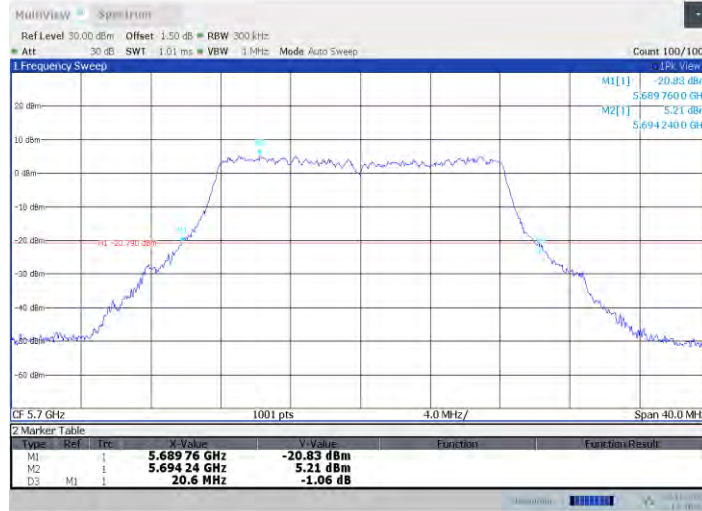
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11a-CDD Ant3 5700



13:09:31 23.11.2022

11a-CDD Ant4 5700



13:10:24 23.11.2022

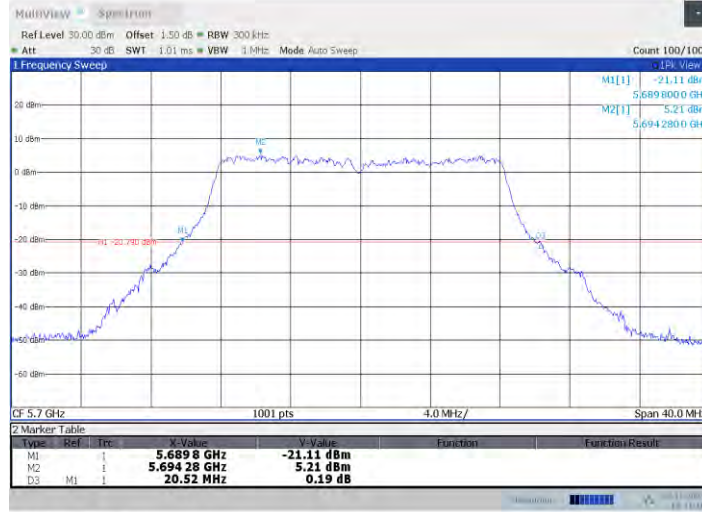


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11a-CDD Ant5 5700



13:11:19 23.11.2022

11a-CDD Ant6 5700



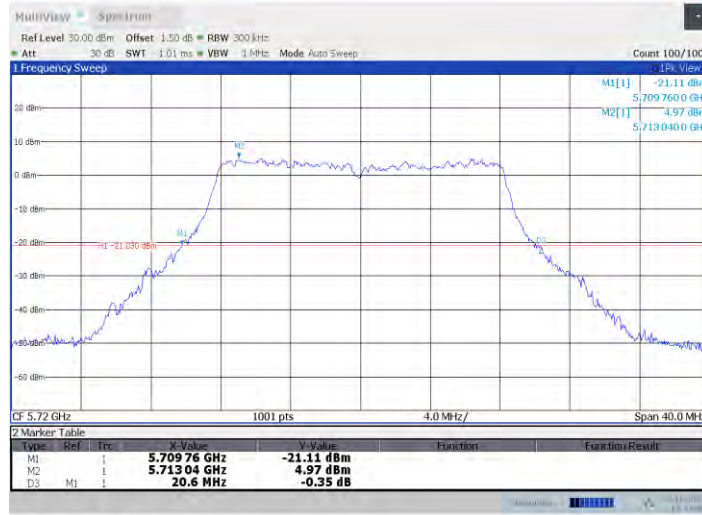
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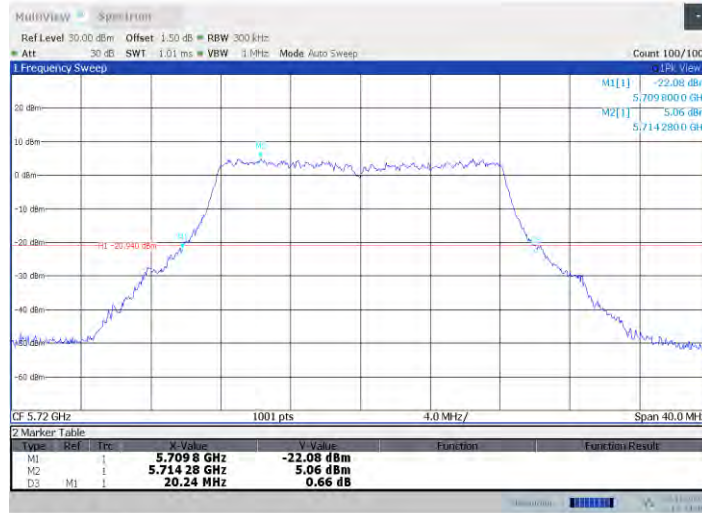
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11a-CDD Ant3 5720



13:13:38 23.11.2022

11a-CDD Ant4 5720



13:14:49 23.11.2022

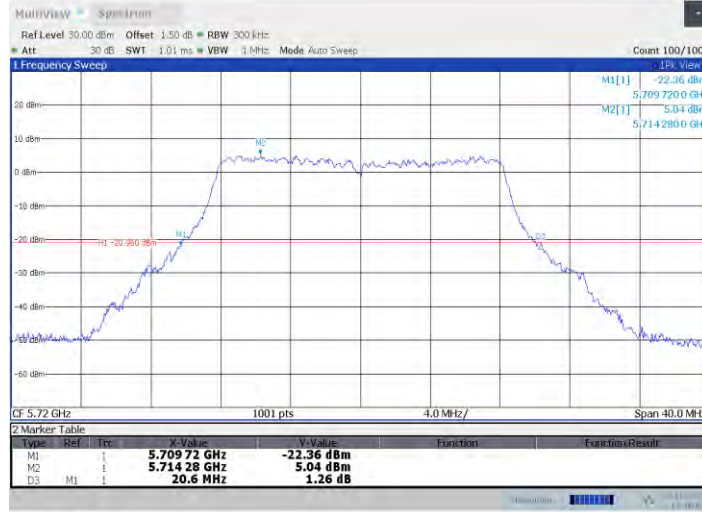


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11a-CDD Ant5 5720



13:16:01 23.11.2022

11a-CDD Ant6 5720



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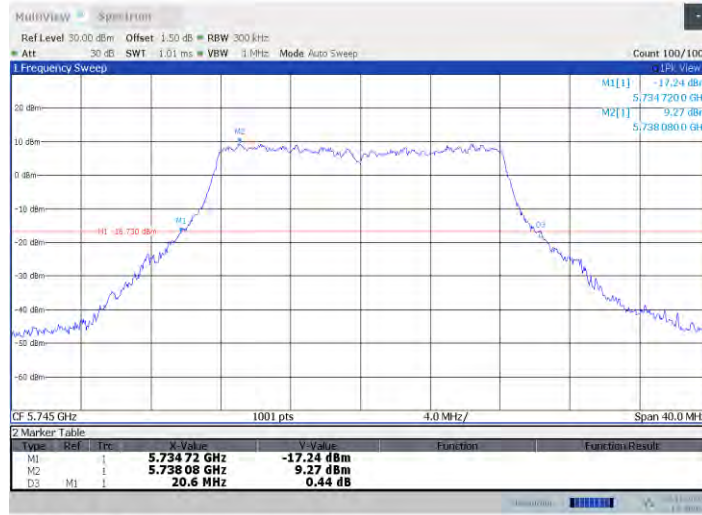


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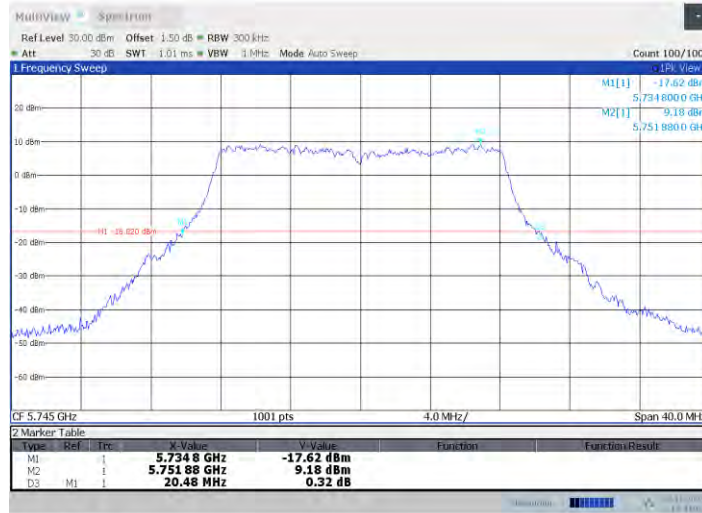


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13:30:04 23.11.2022

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13:31:03 23.11.2022

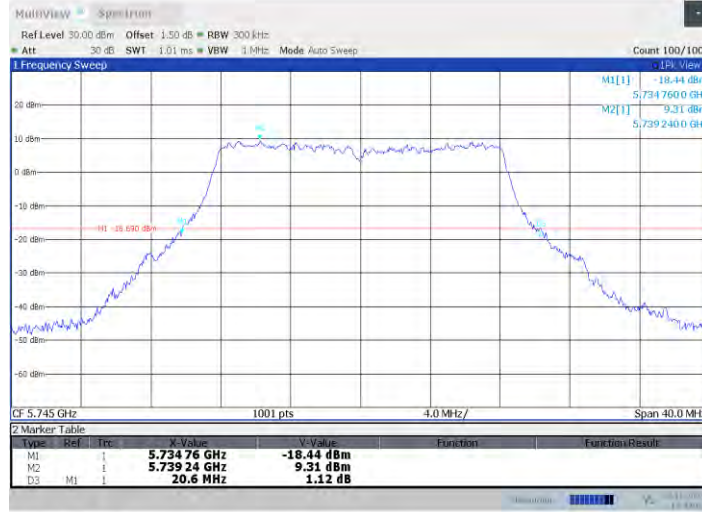


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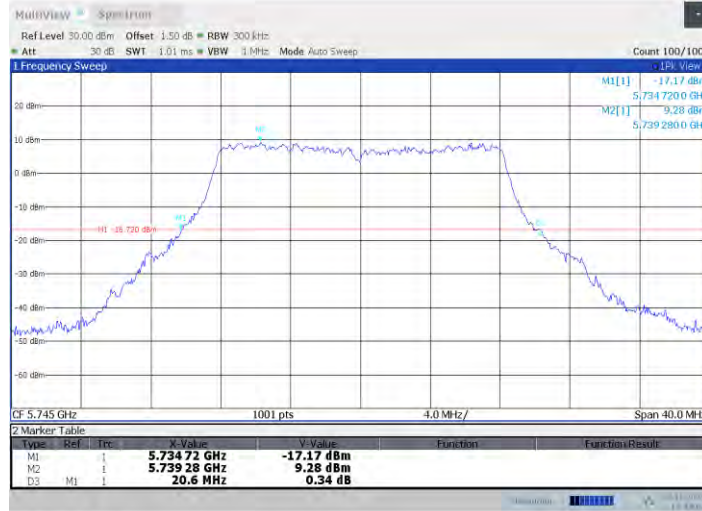
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11a-CDD Ant5 5745



13:32:03 23.11.2022

11a-CDD Ant6 5745



13:33:04 23.11.2022

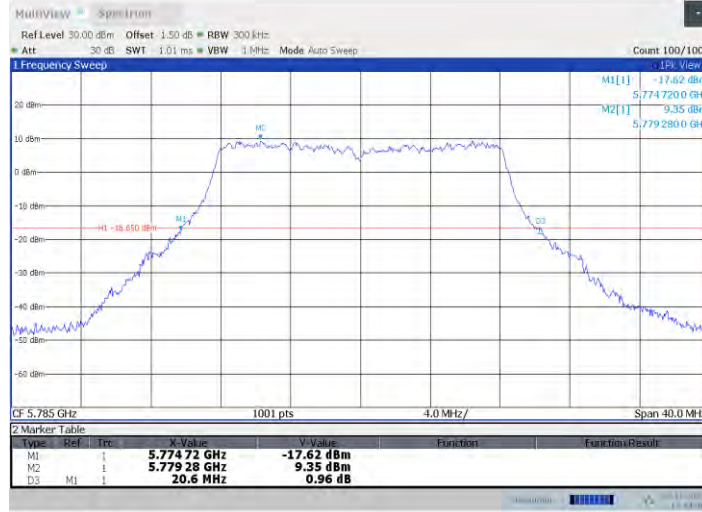


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11a-CDD Ant3 5785



13:54:41 23.11.2022

11a-CDD Ant4 5785



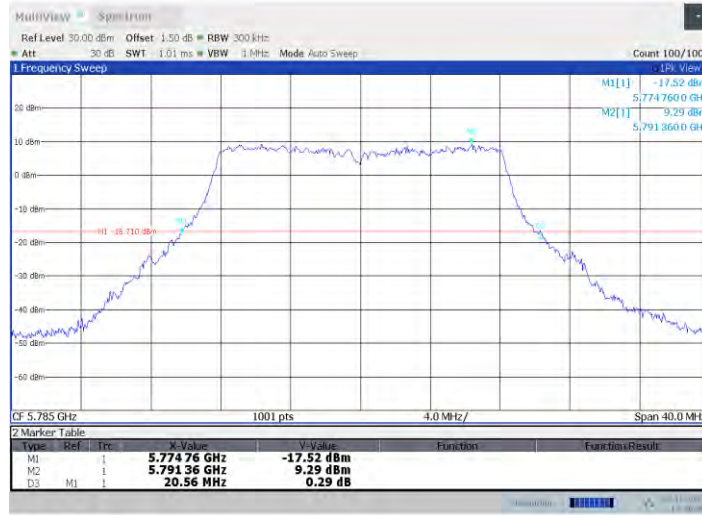
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11a-CDD Ant5 5785



13:56:40 23.11.2022

11a-CDD Ant6 5785



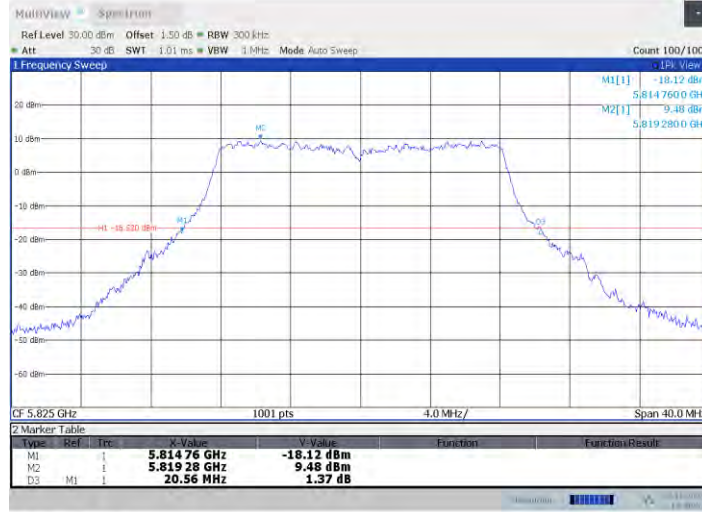
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11a-CDD Ant3 5825



14:00:54 23.11.2022

11a-CDD Ant4 5825



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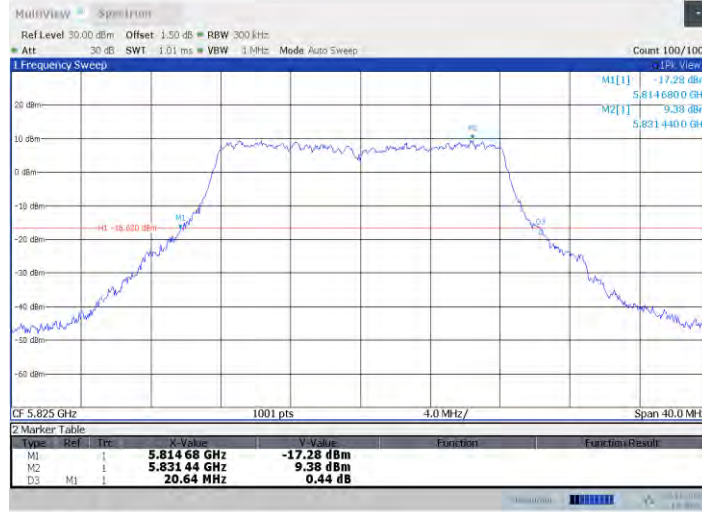


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11a-CDD Ant5 5825



14:02:54 23.11.2022

11a-CDD Ant6 5825



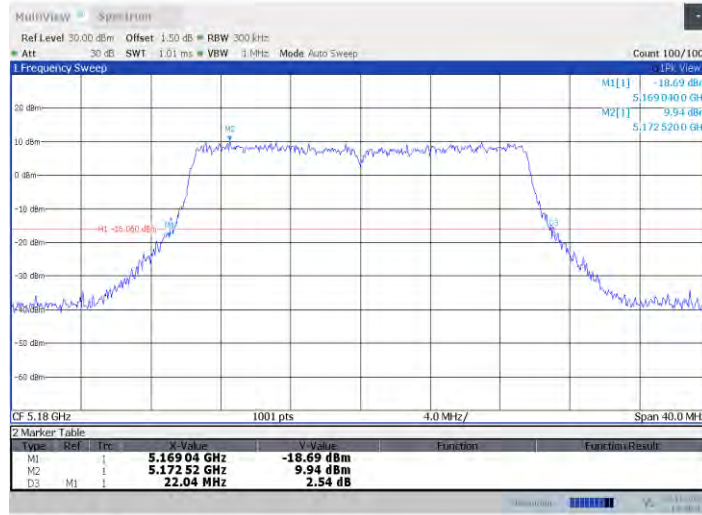
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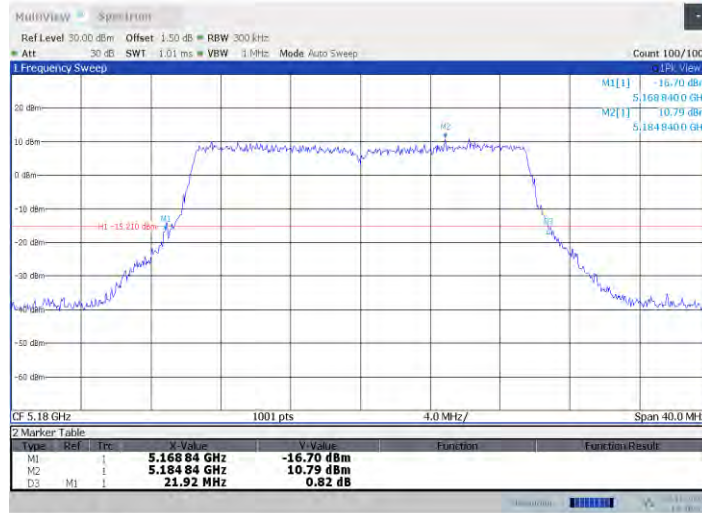
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11x20MIMO Ant3 5180



14:06:43 23.11.2022

11x20MIMO Ant4 5180



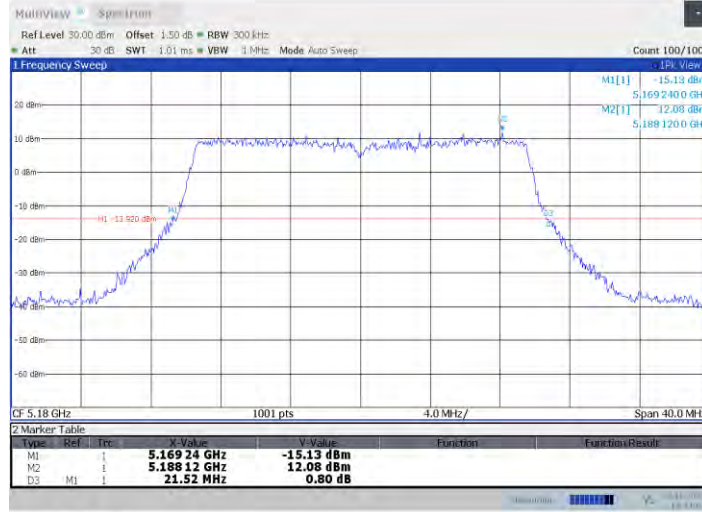
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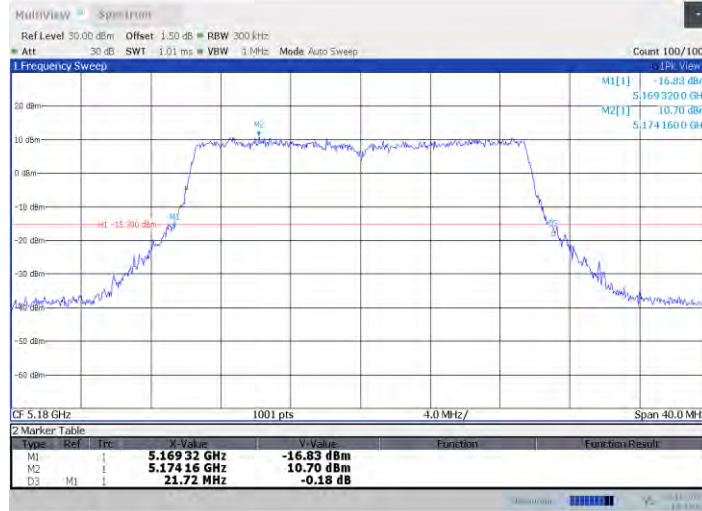
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14:14:04 23.11.2022

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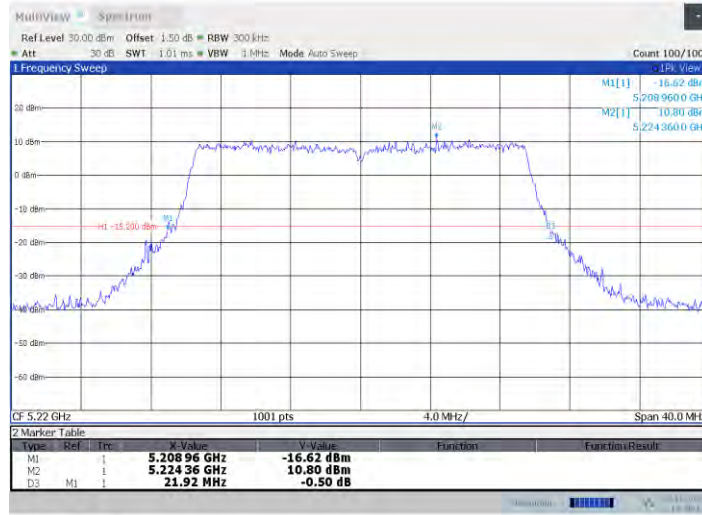


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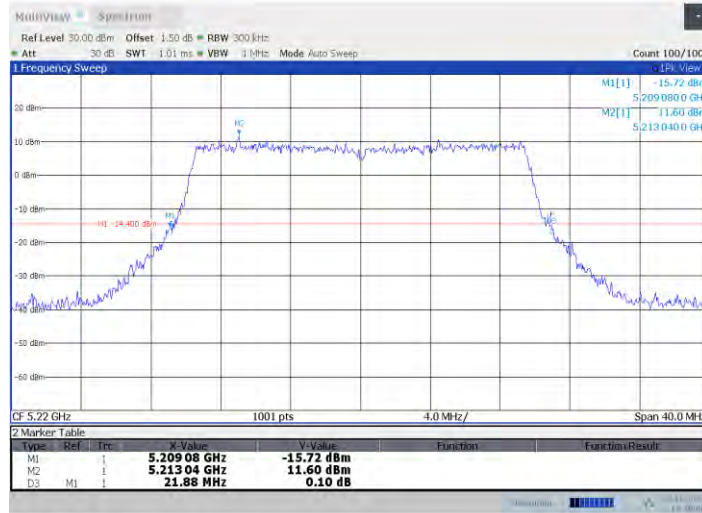


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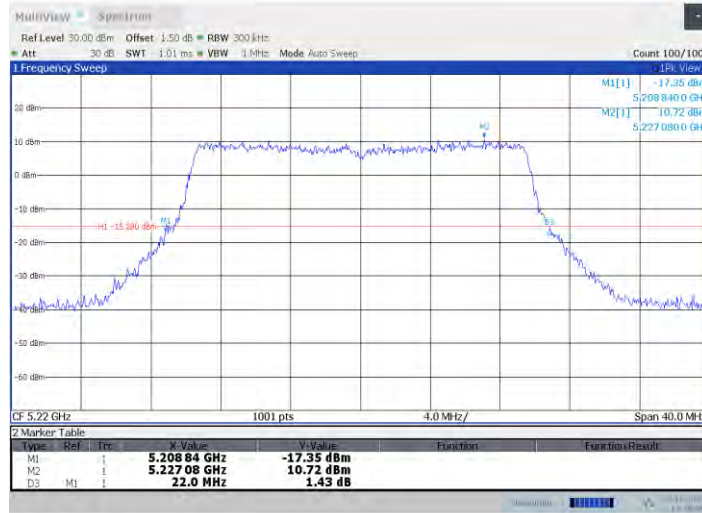


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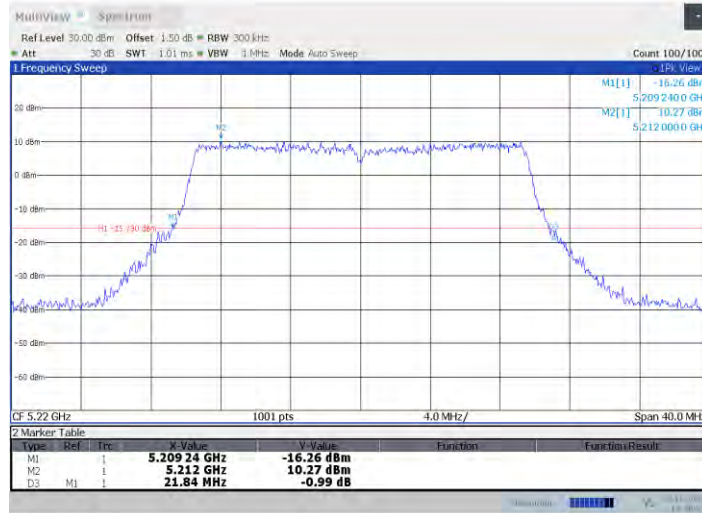
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14:19:59 23.11.2022

### 11ax20MIMO Ant6 5220



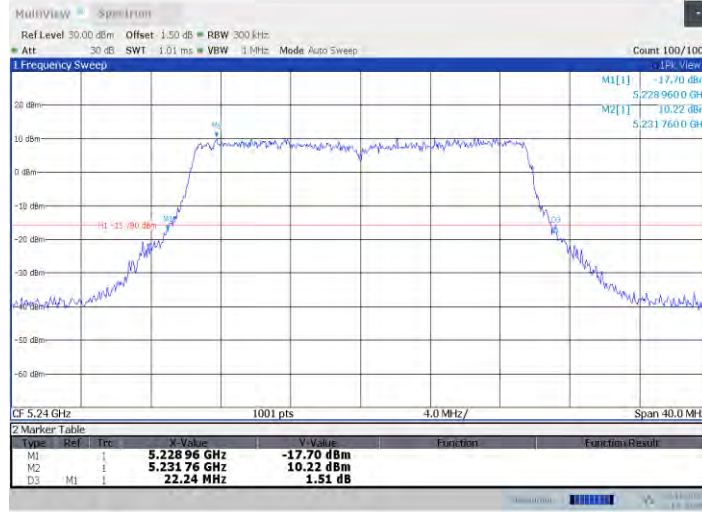
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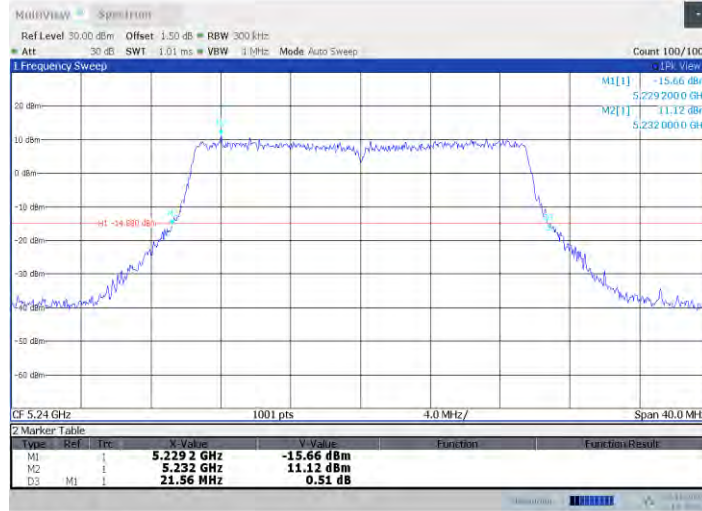
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11ax20MIMO Ant3 5240



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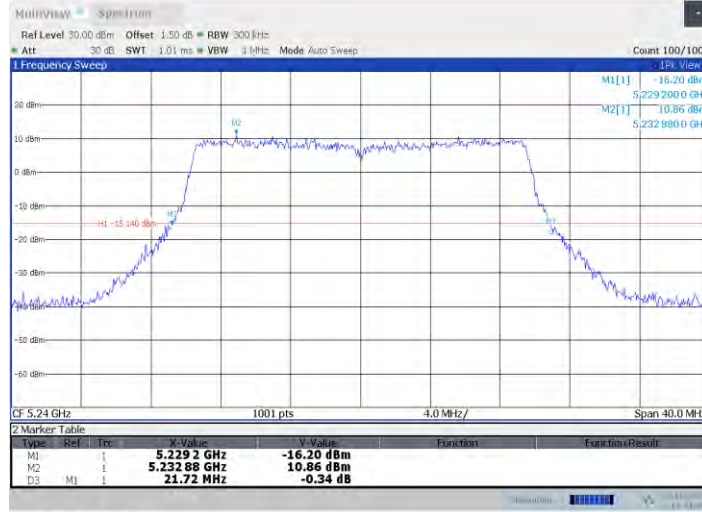
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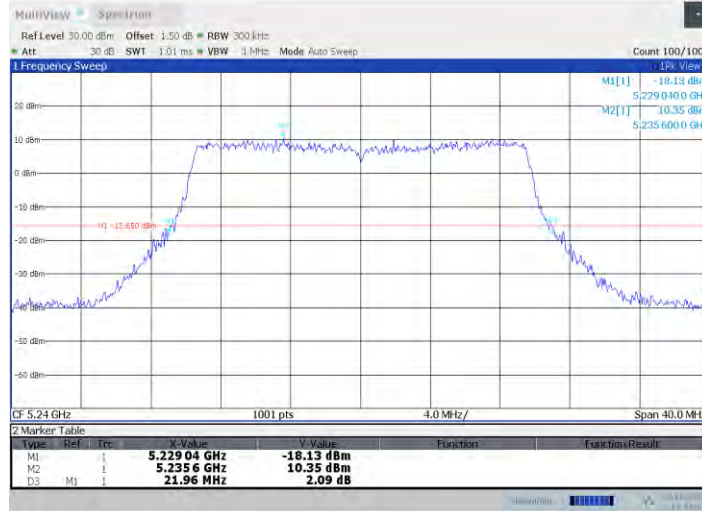
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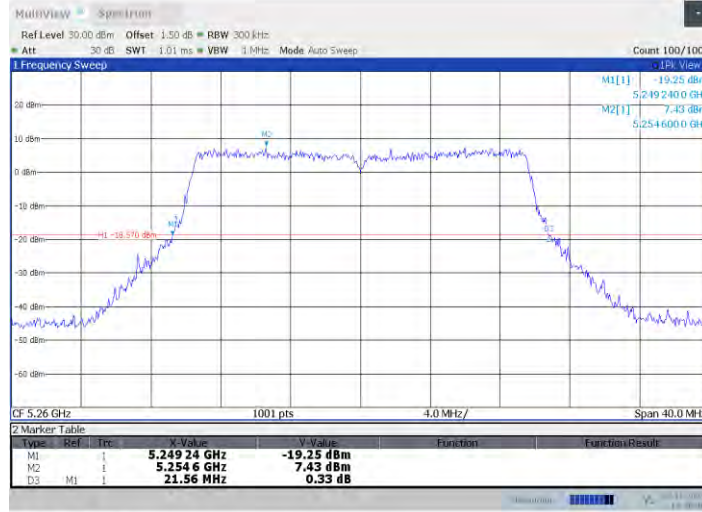
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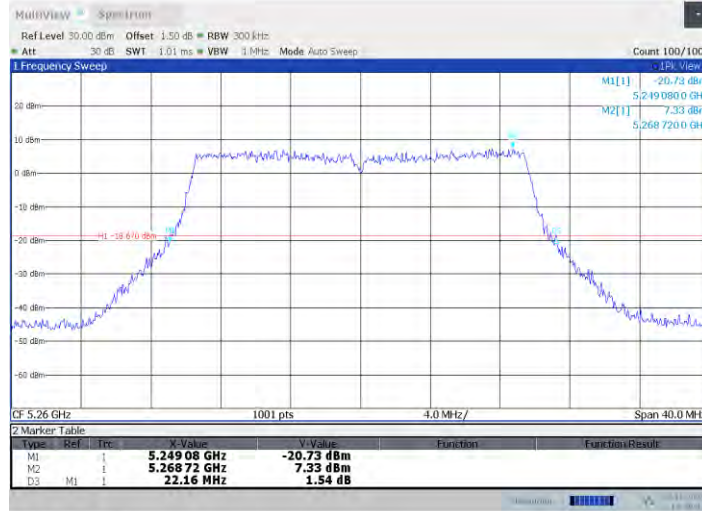
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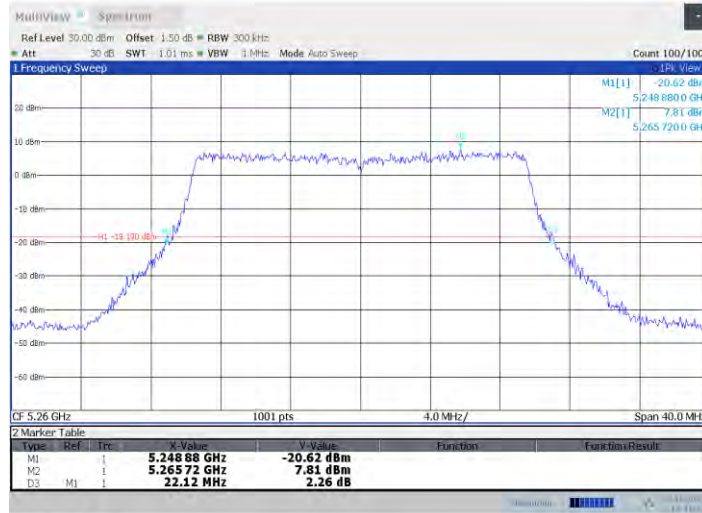
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11x20MIMO Ant5 5260



14:30:35 23.11.2022

11x20MIMO Ant6 5260



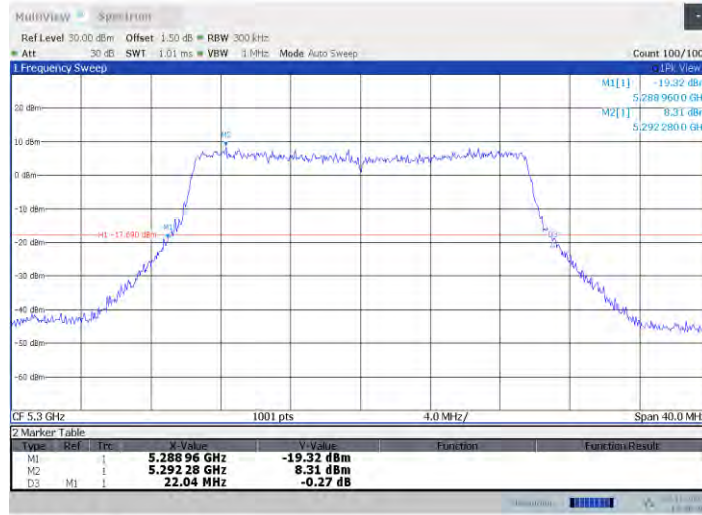
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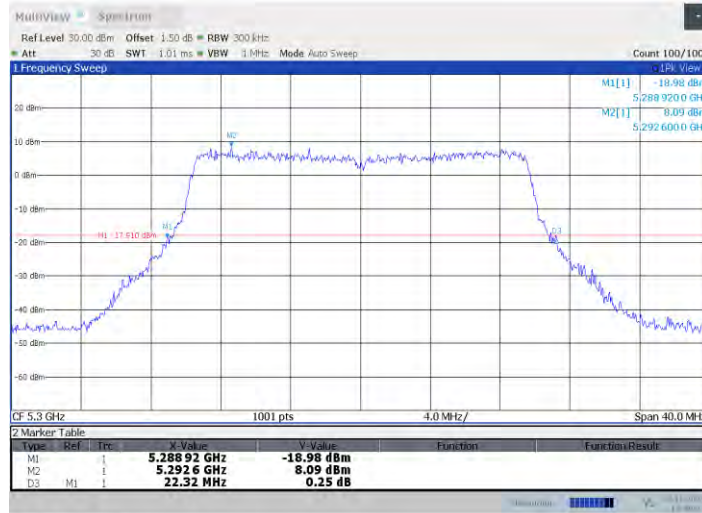
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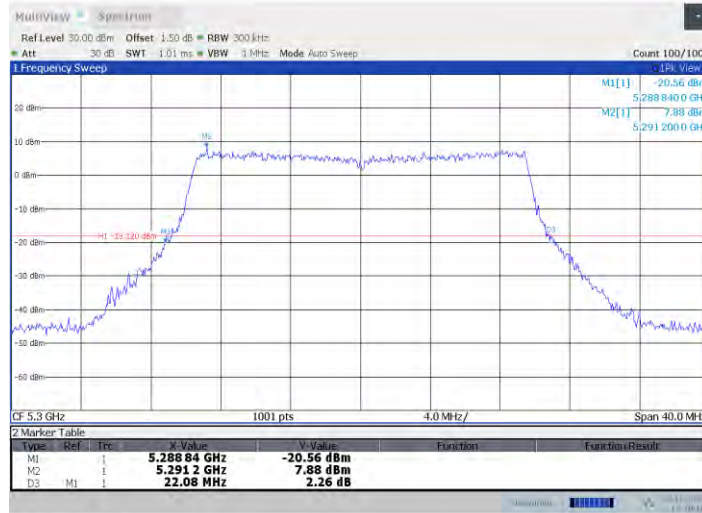


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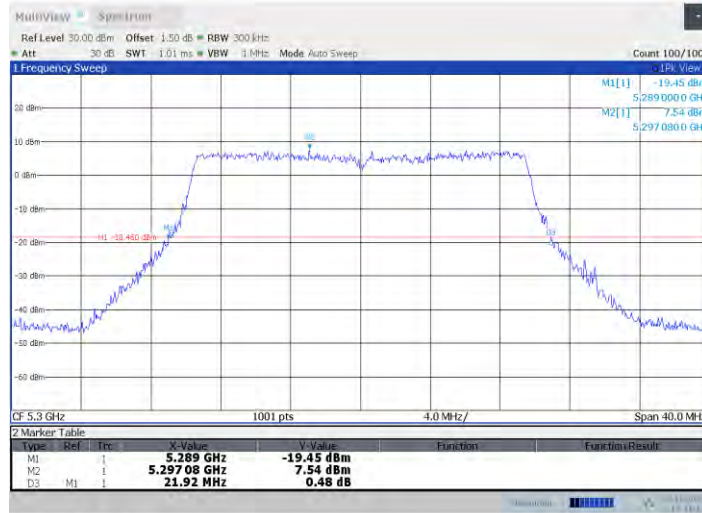
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15:10:16 23.11.2022

11ax20MIMO Ant6 5300



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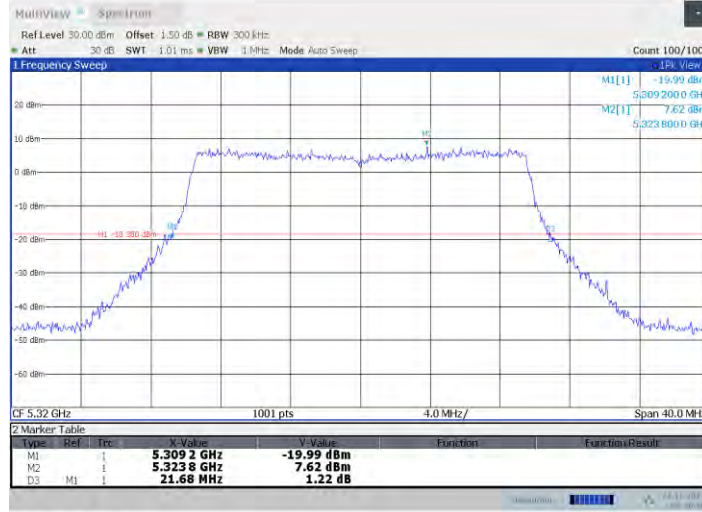
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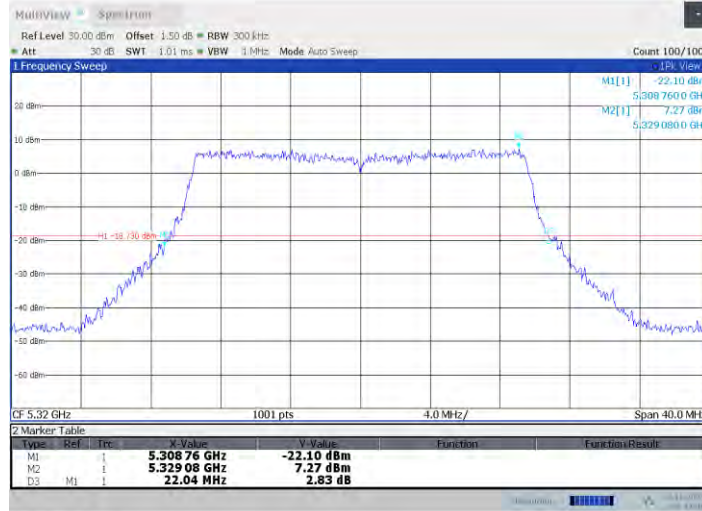


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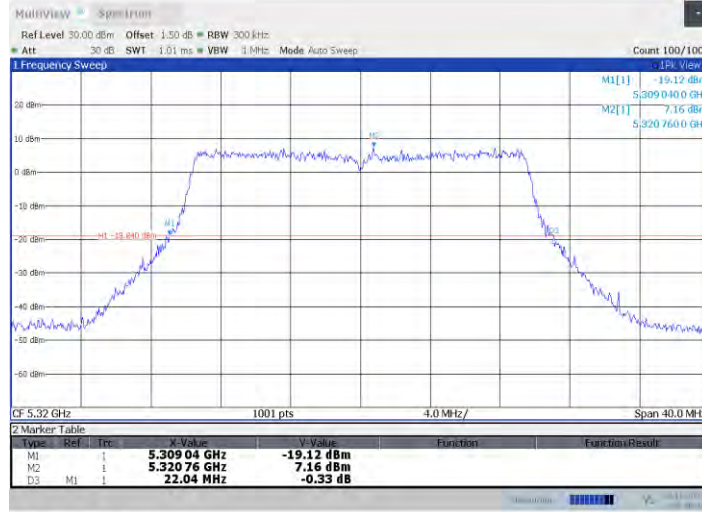
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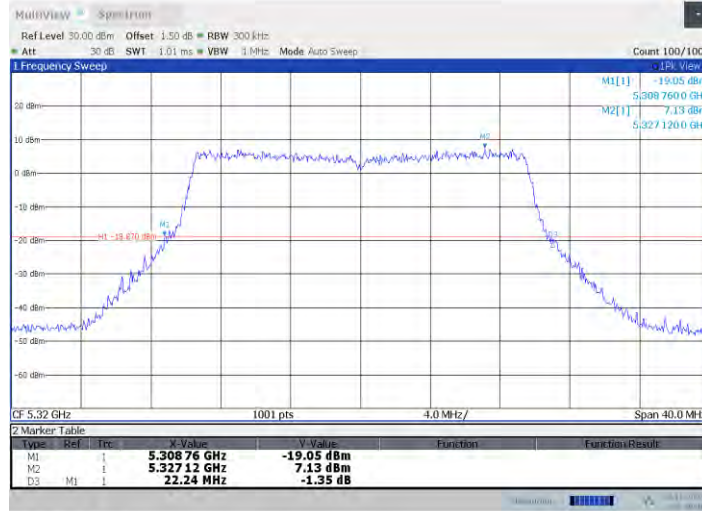
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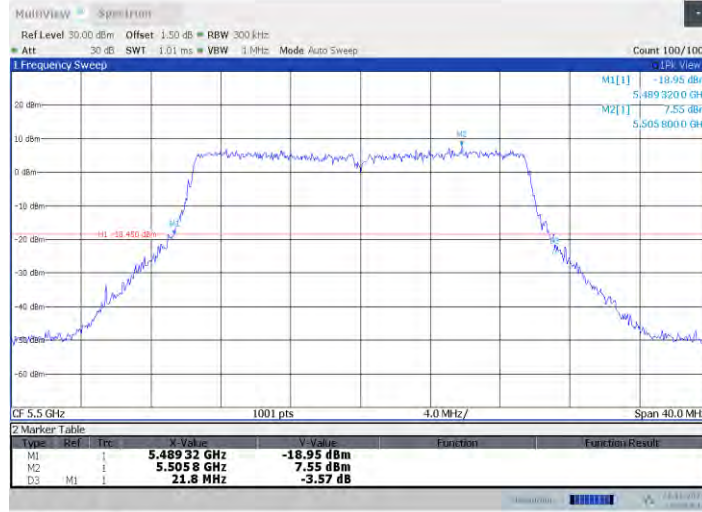


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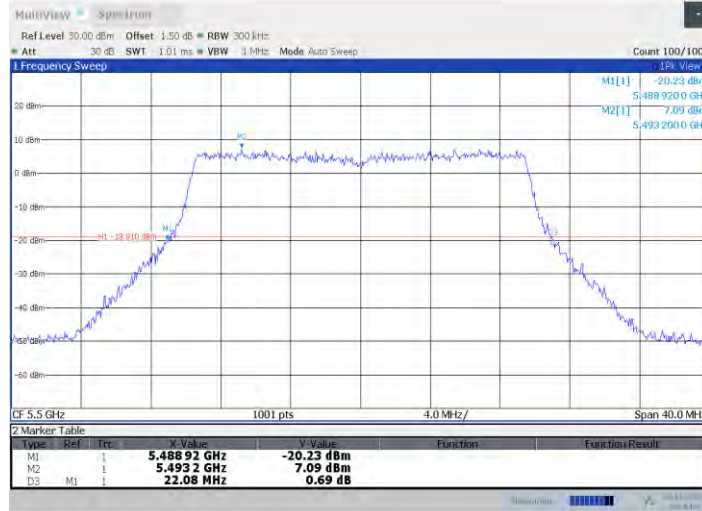
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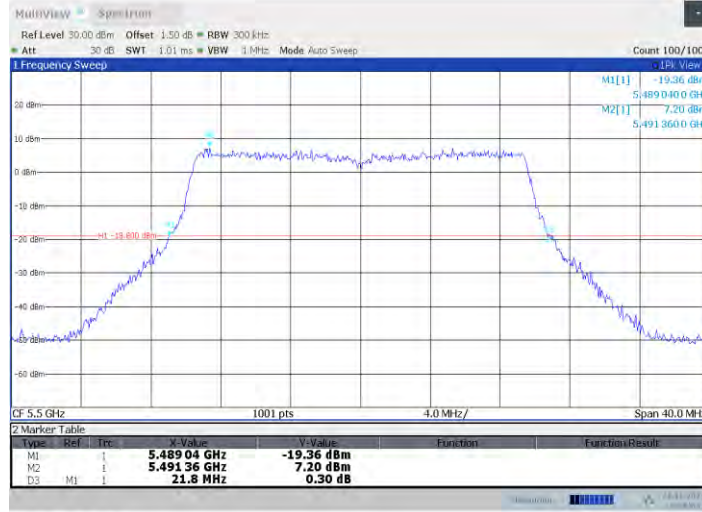
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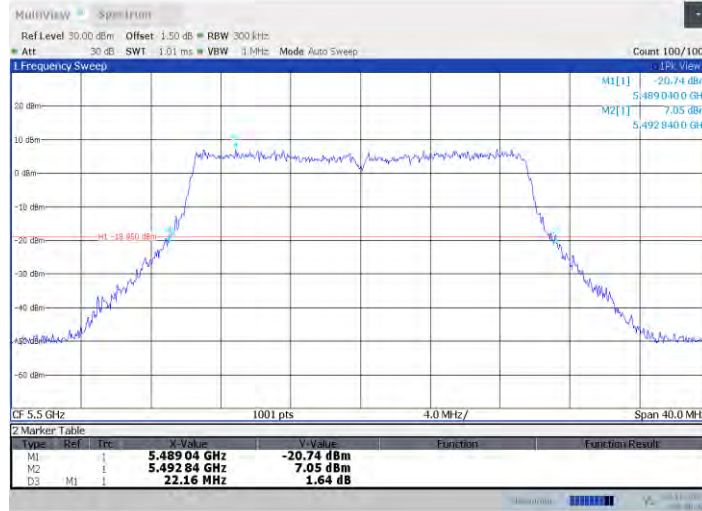
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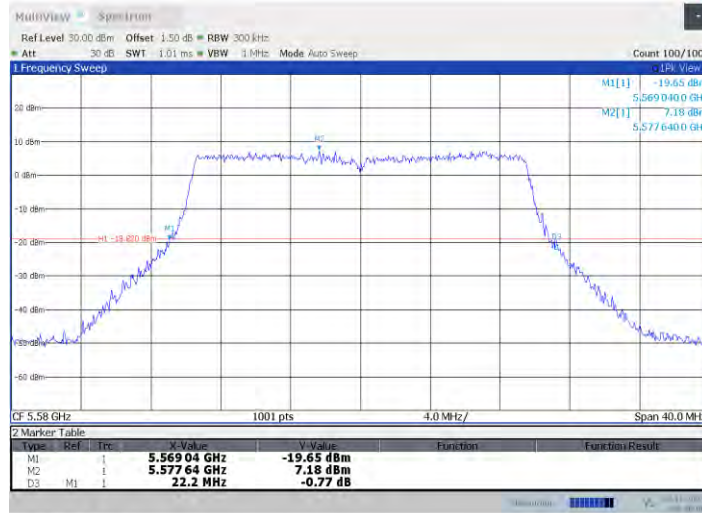


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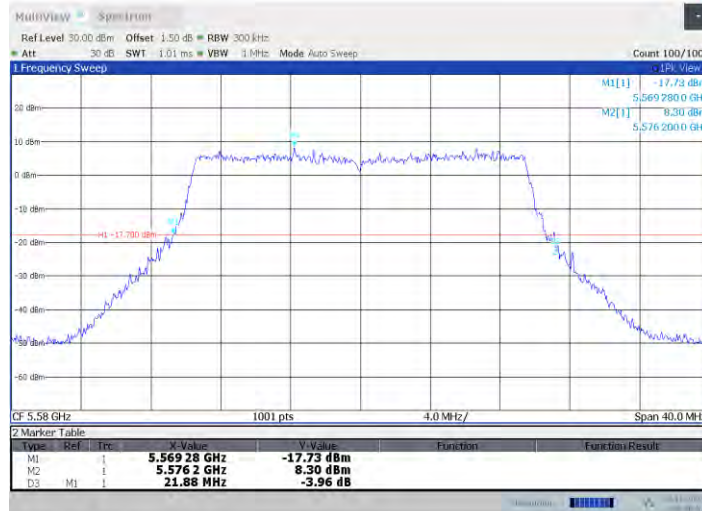
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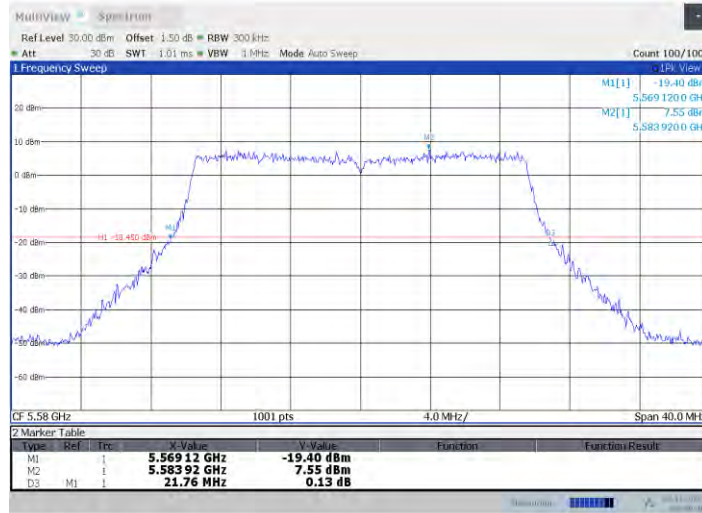


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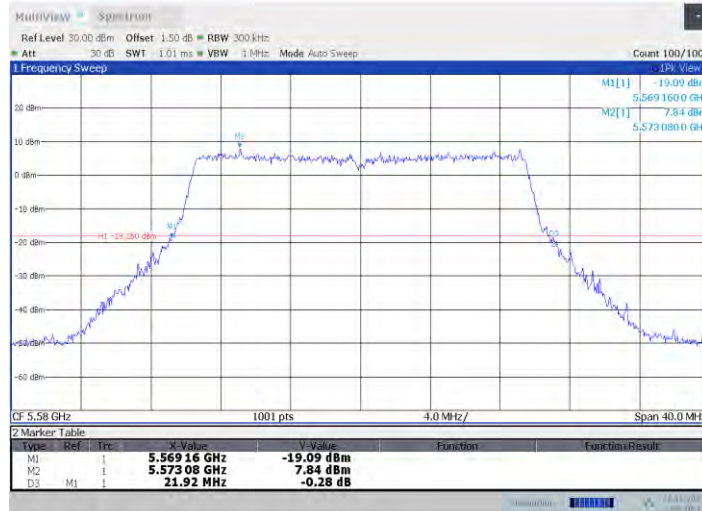
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### 11x20MIMO Ant5 5580



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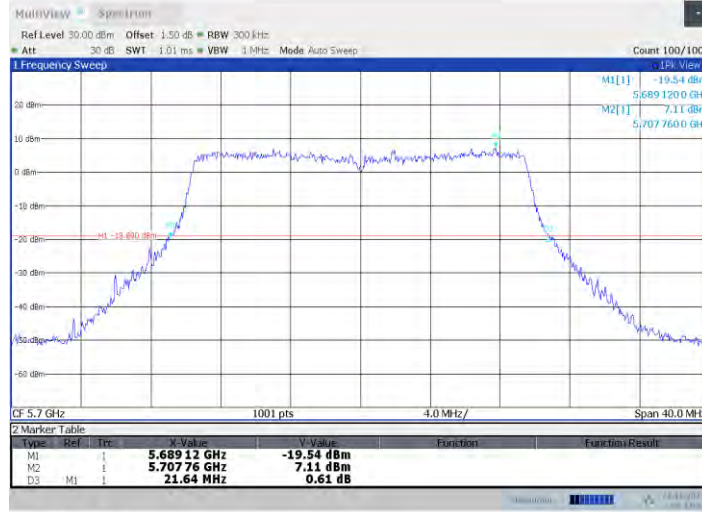


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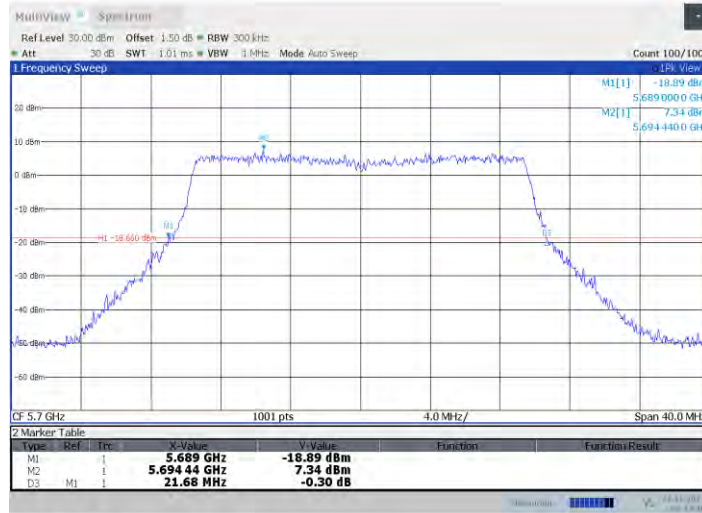
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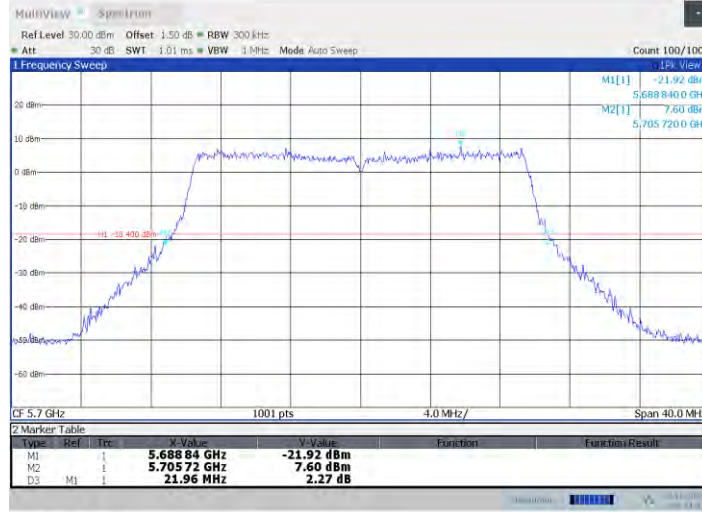
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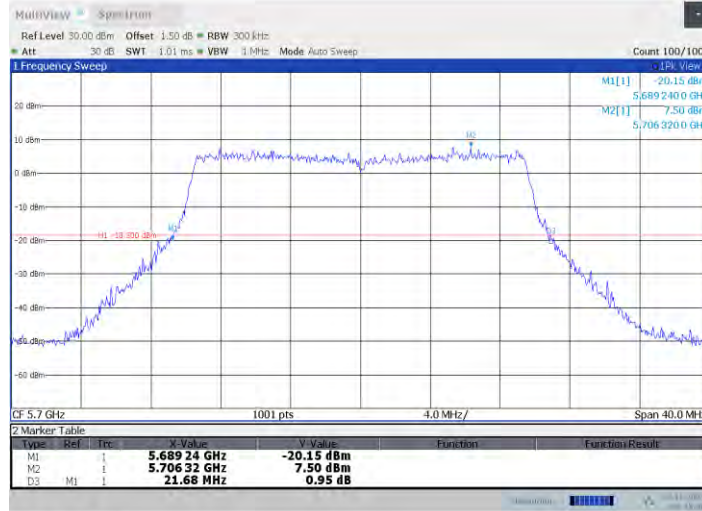
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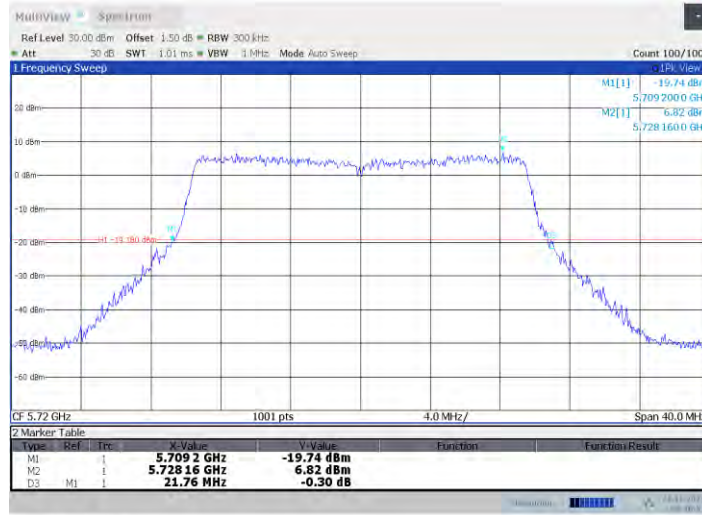
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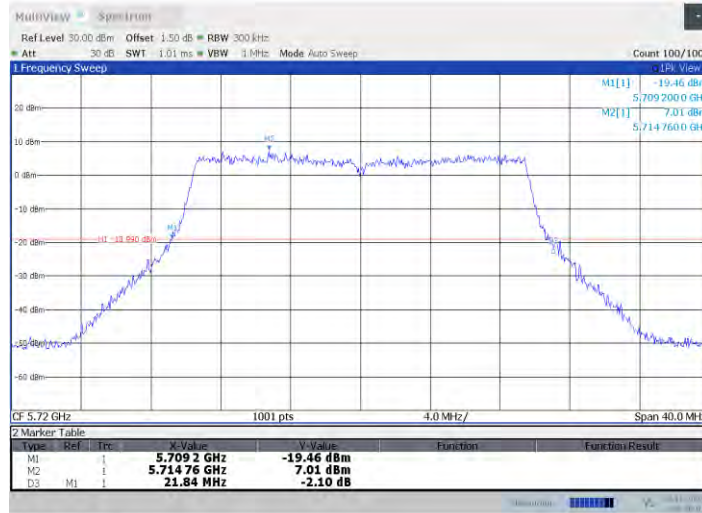


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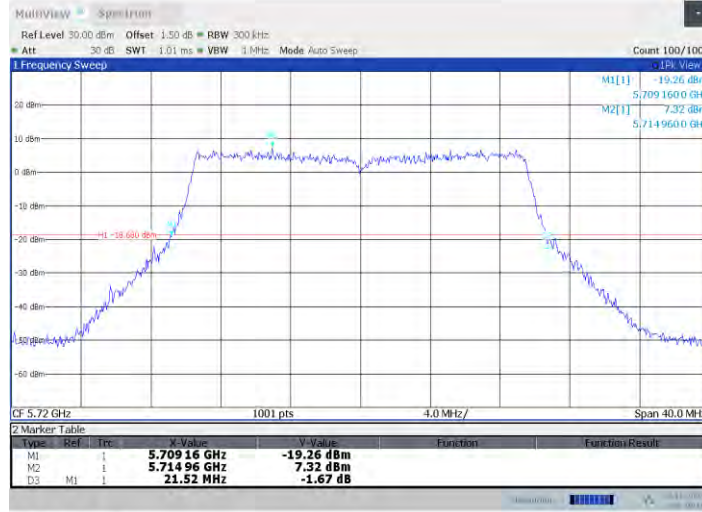
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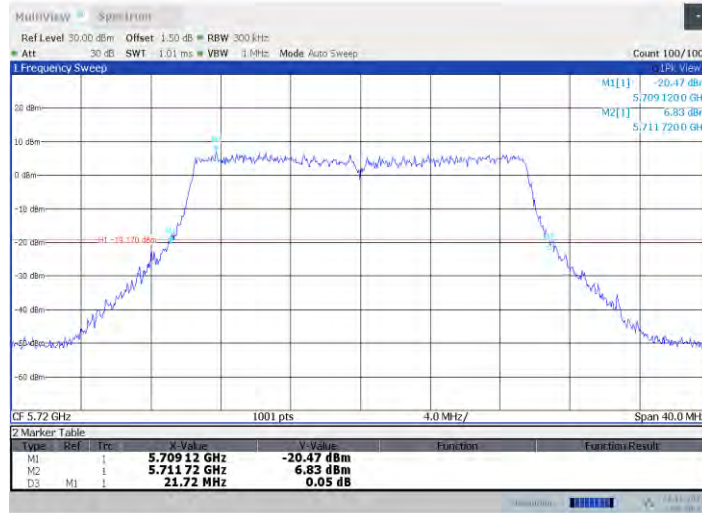
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11ax20MIMO Ant5 5720



06:19:29 24.11.2022

11ax20MIMO Ant6 5720



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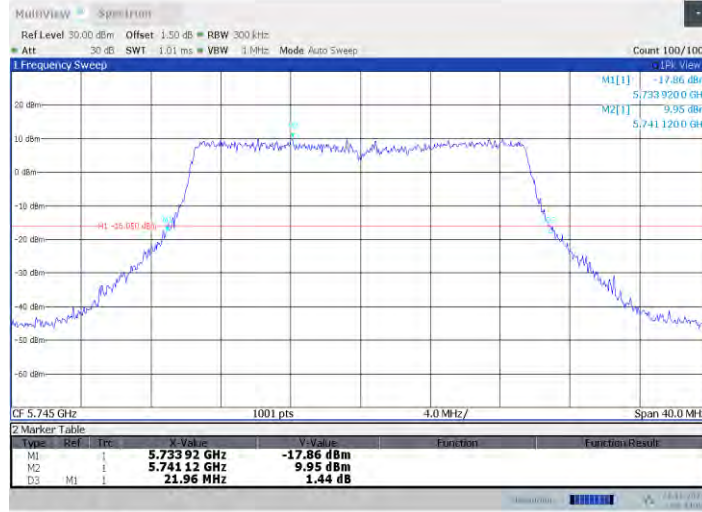


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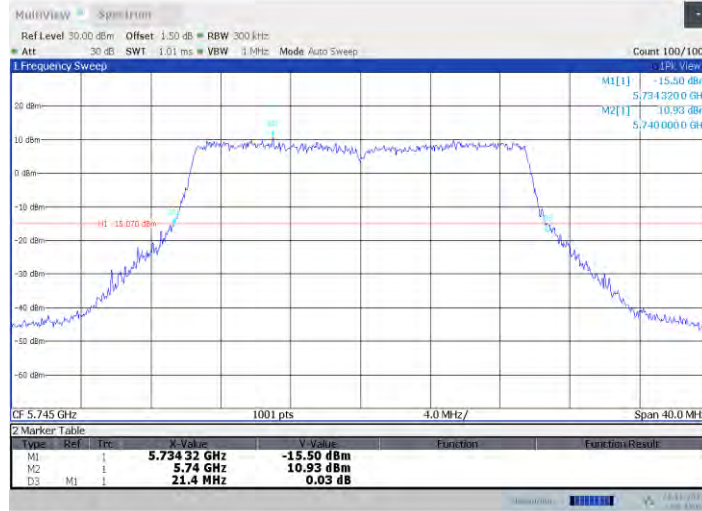
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11x20MIMO Ant3 5745



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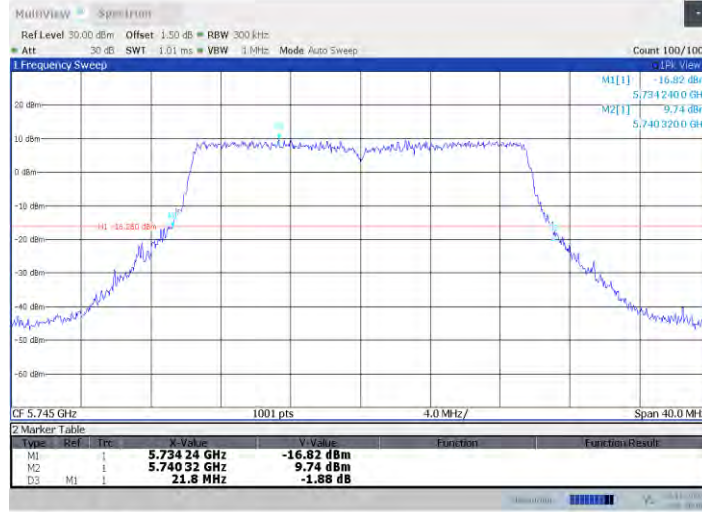


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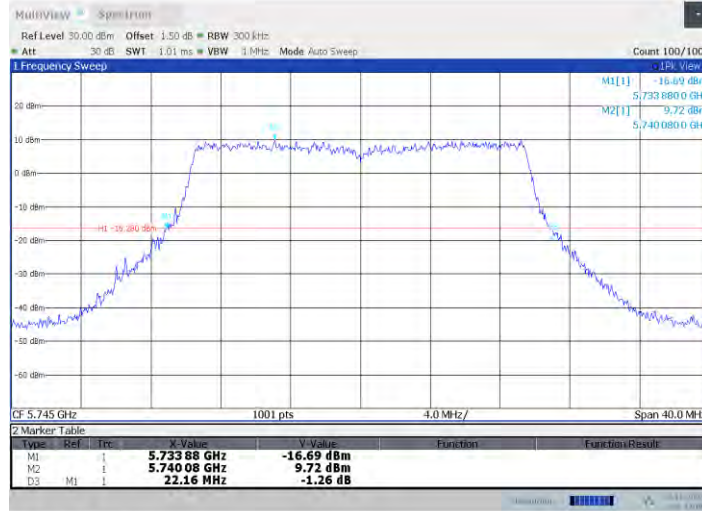
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11ax20MIMO Ant6 5745



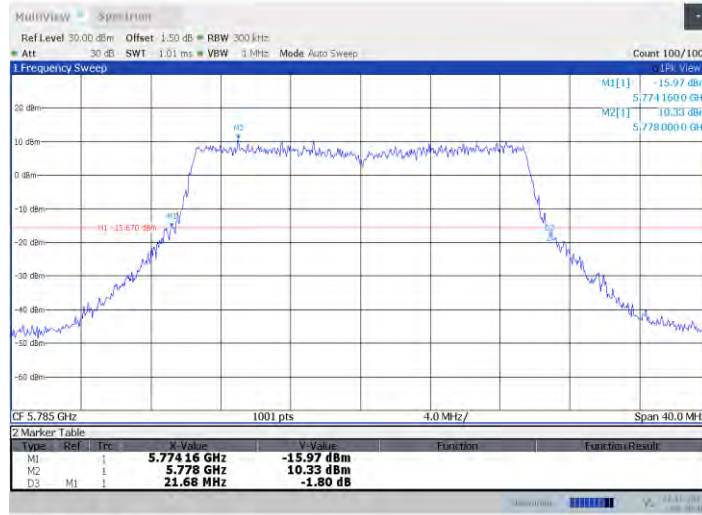
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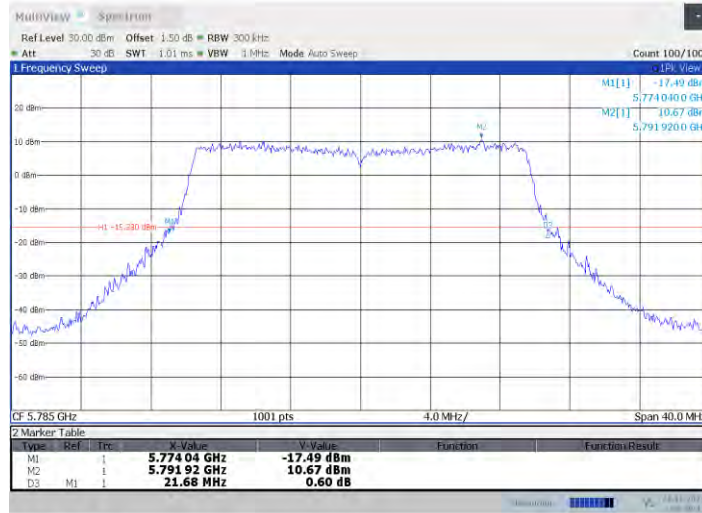
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11x20MIMO Ant3 5785



06:28:48 24.11.2022

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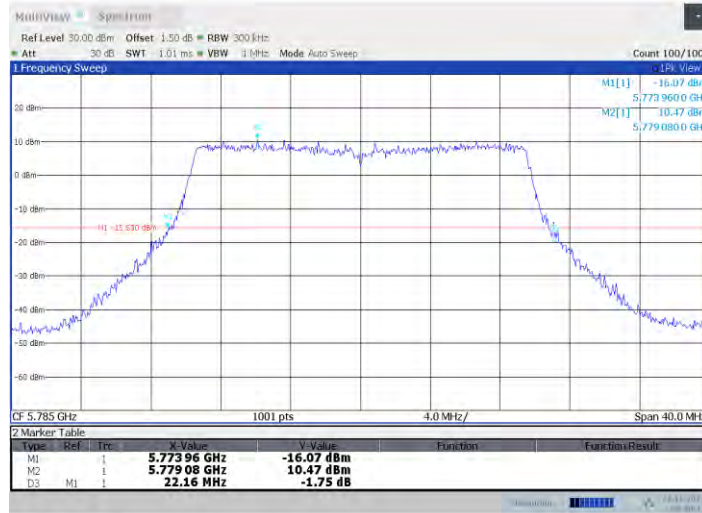


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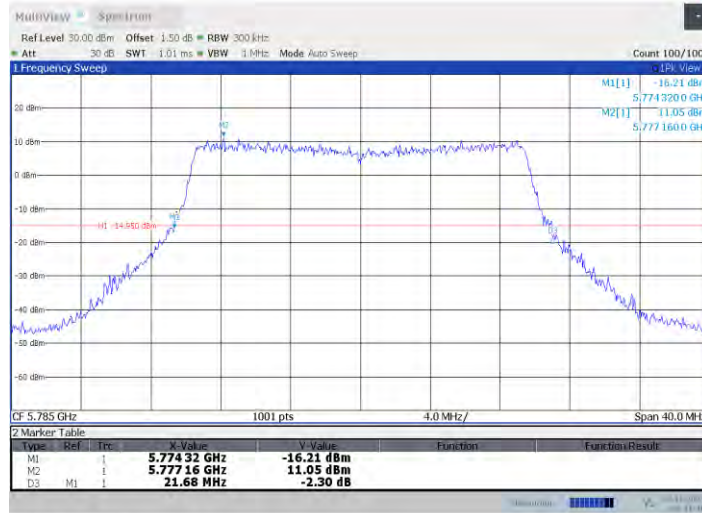
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06:30:47 24.11.2022

### 11x20MIMO Ant6 5785



06:31:48 24.11.2022

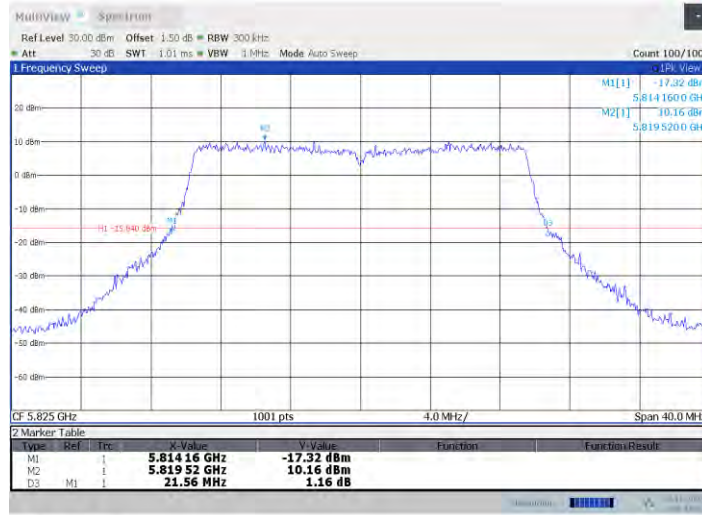


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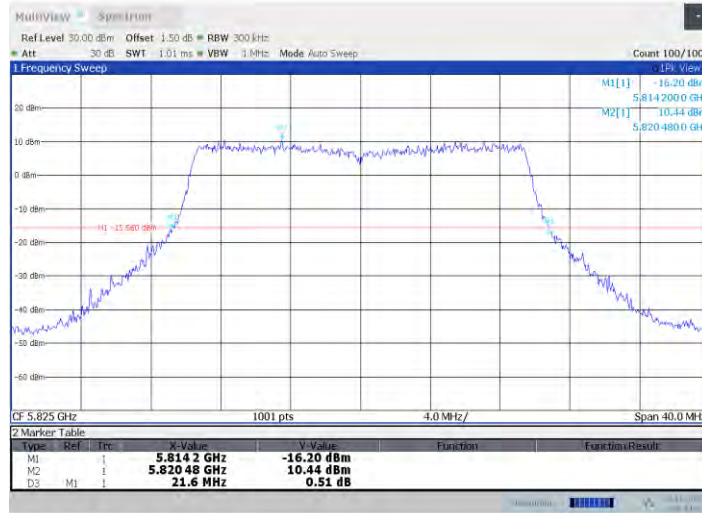
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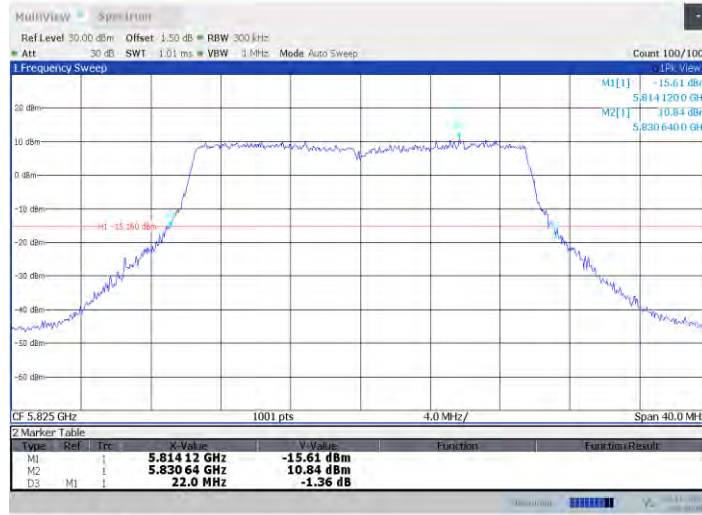


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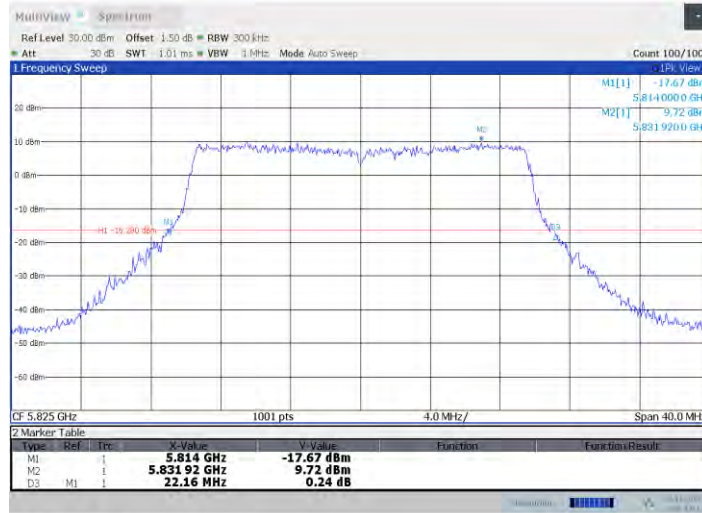
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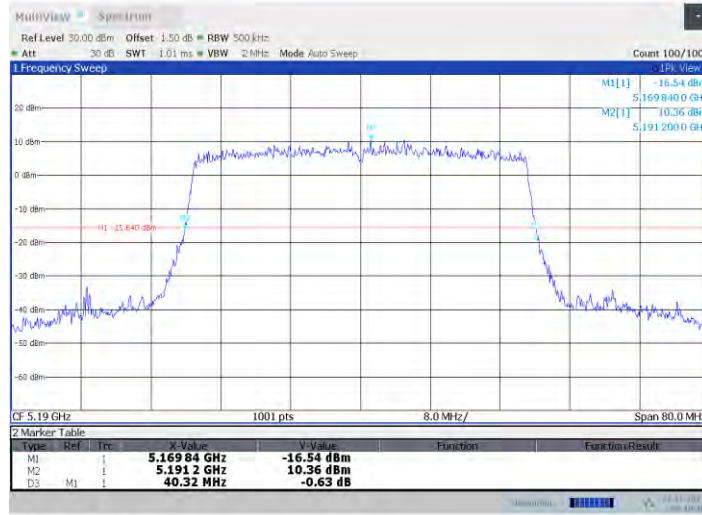
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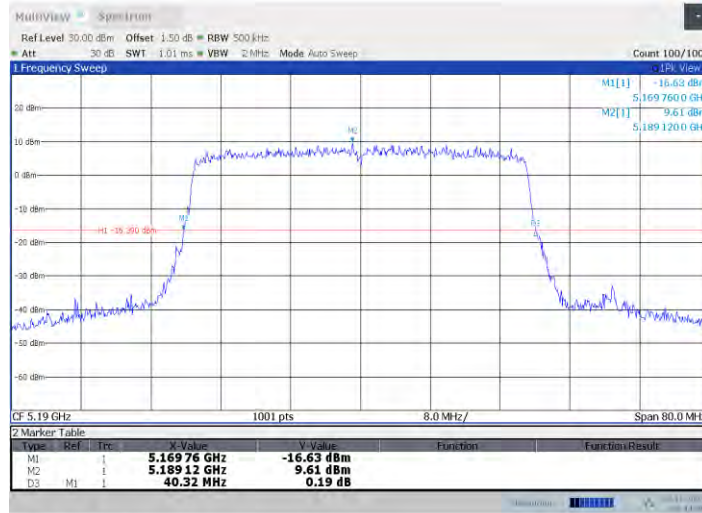


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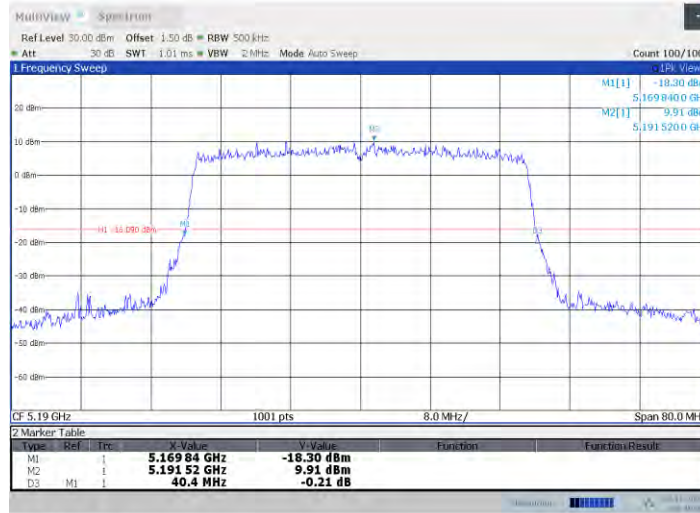
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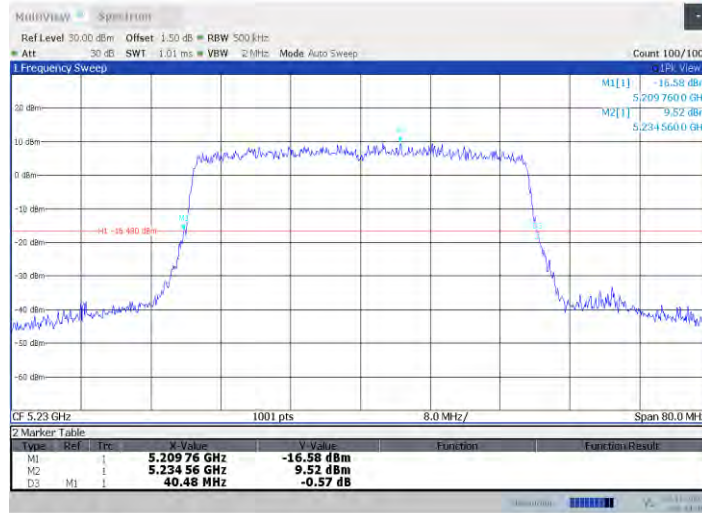


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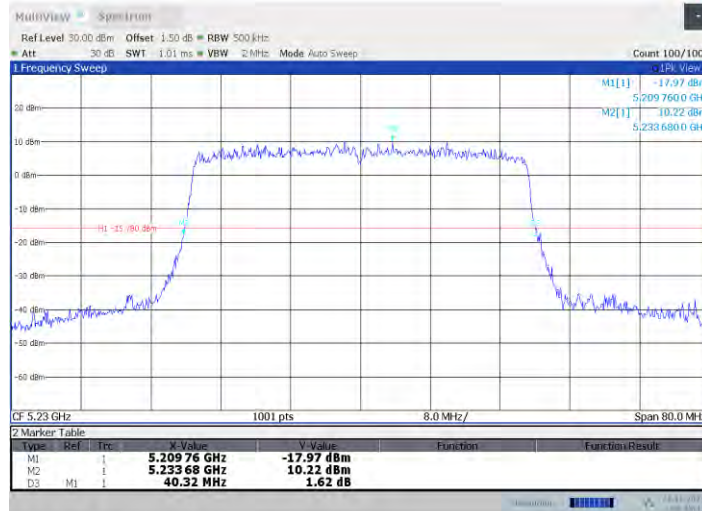
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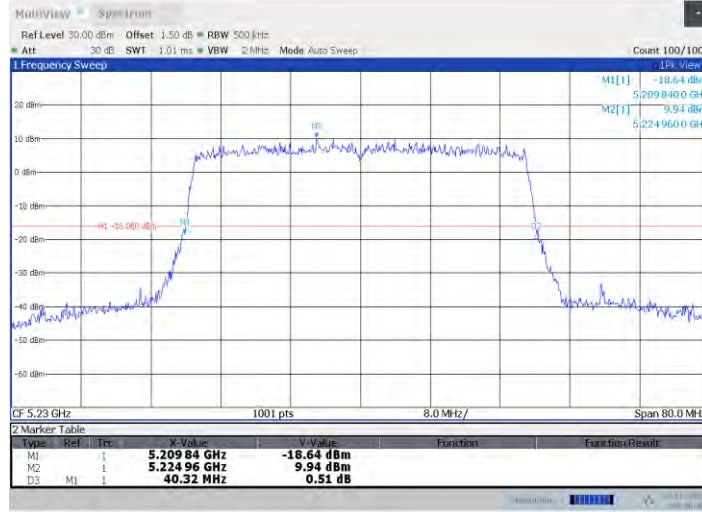


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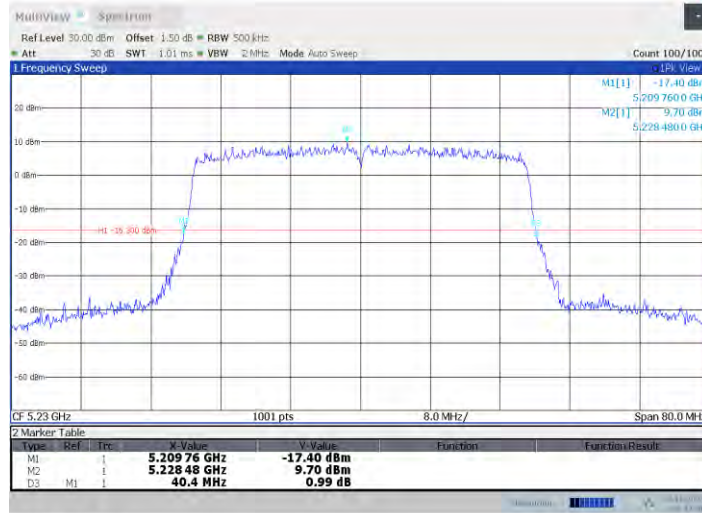
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11x40MIMO Ant6 5230



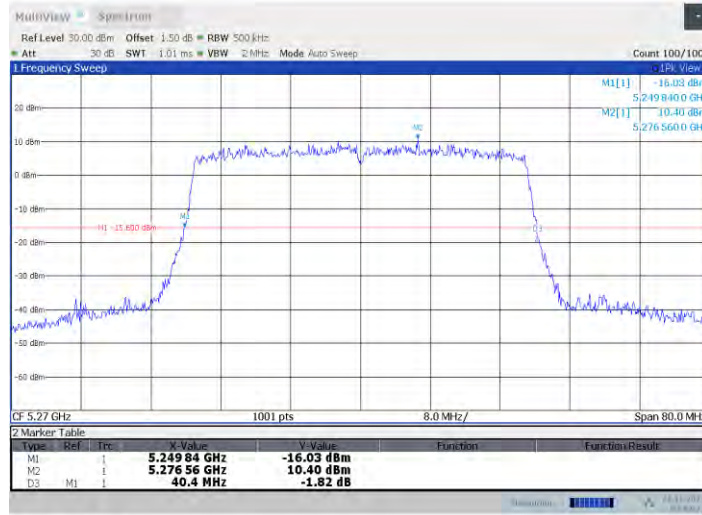
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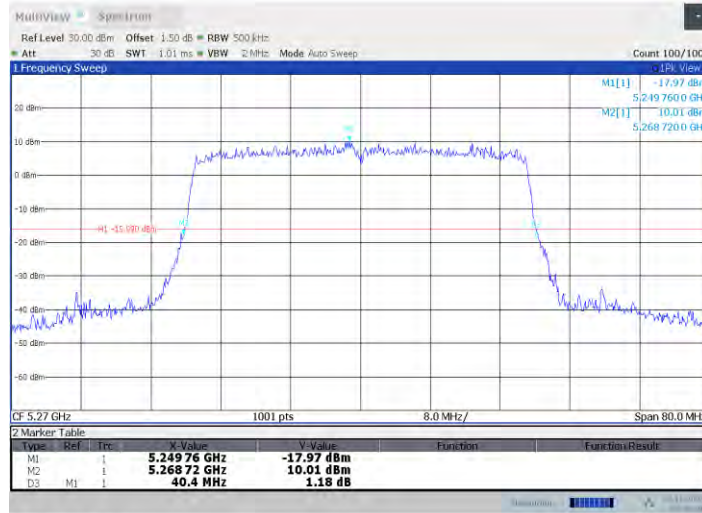
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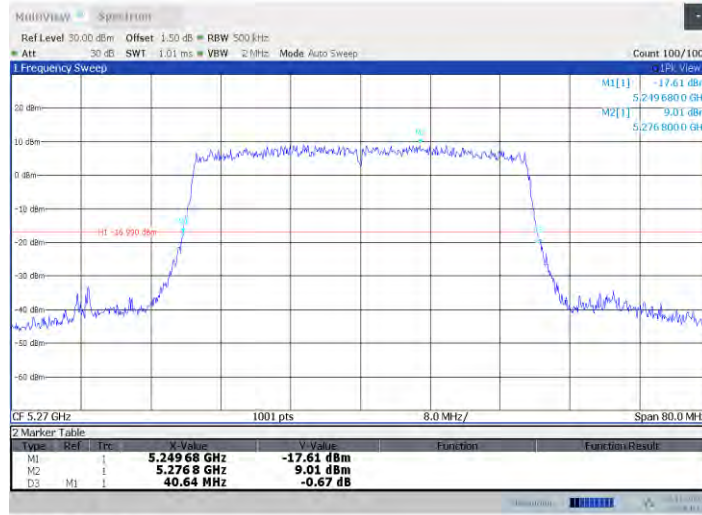


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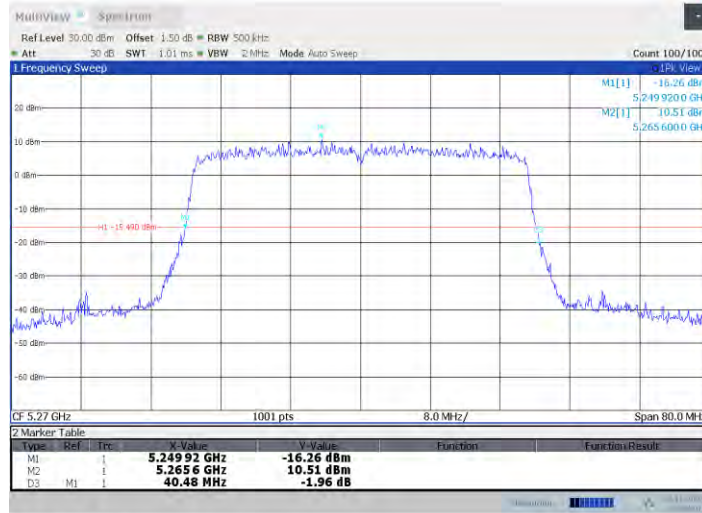
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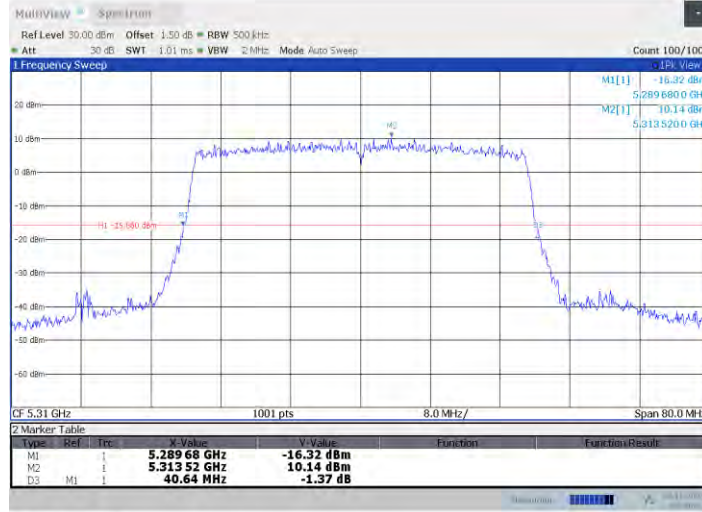
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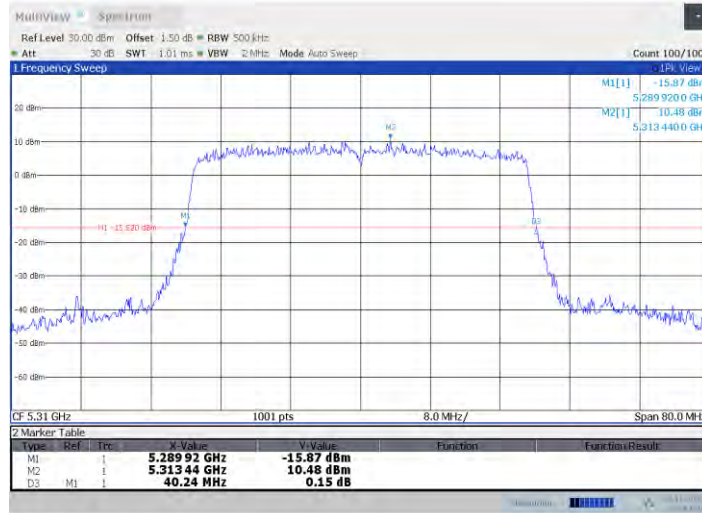
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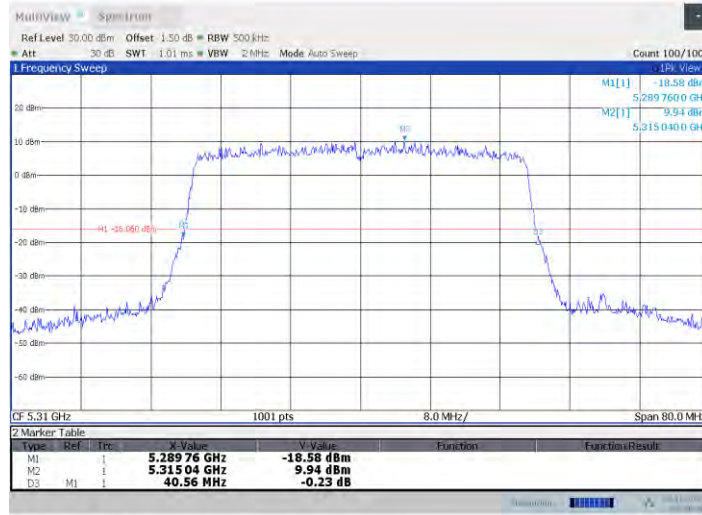
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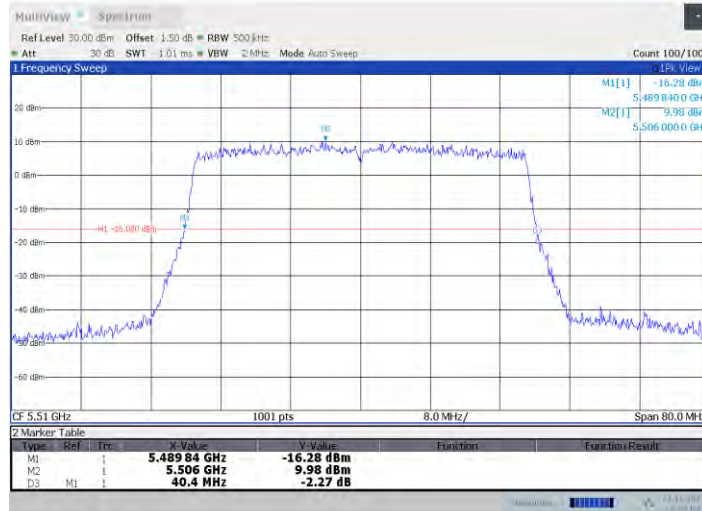


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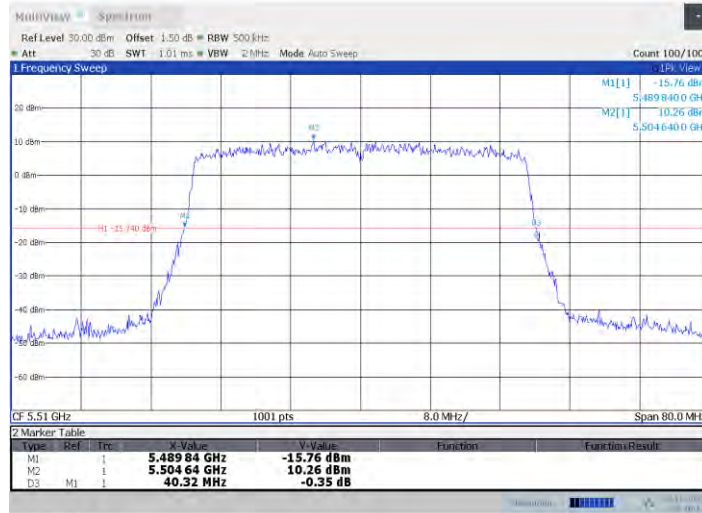
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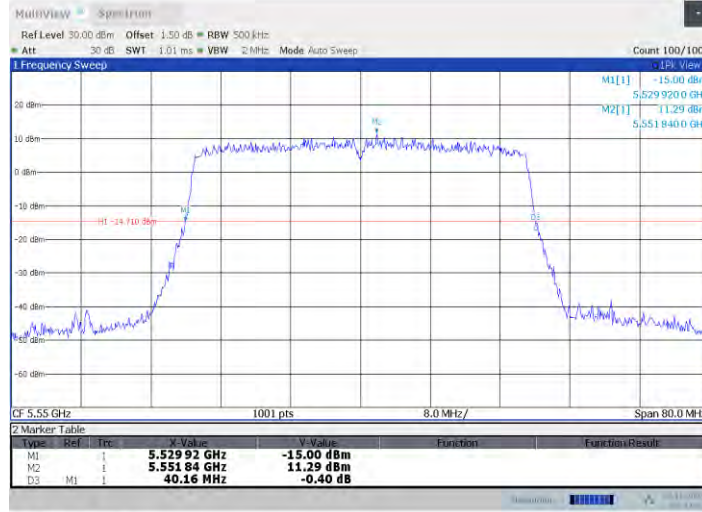


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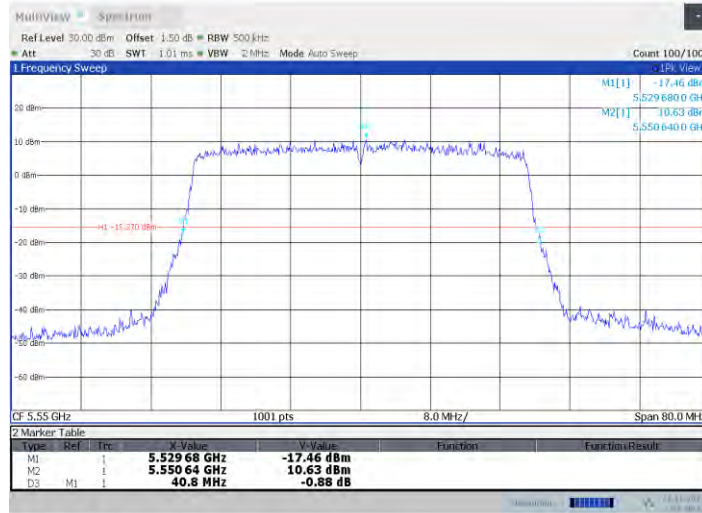
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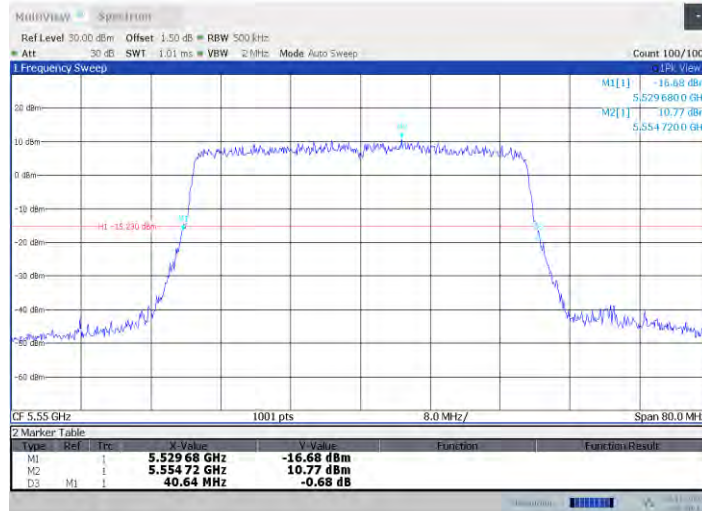
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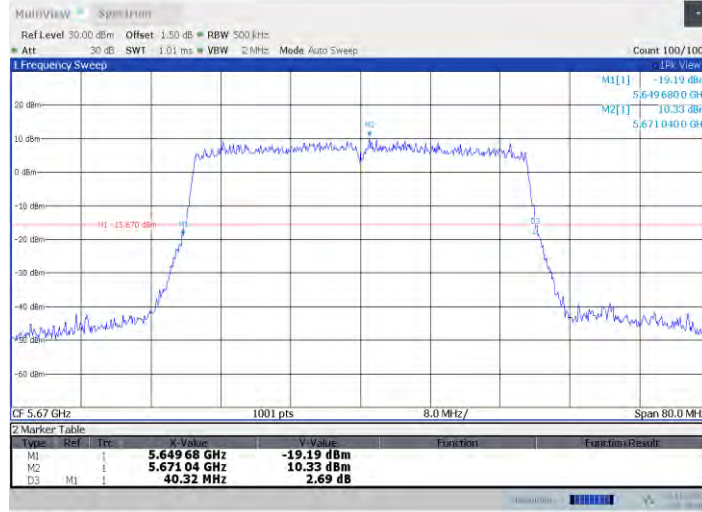
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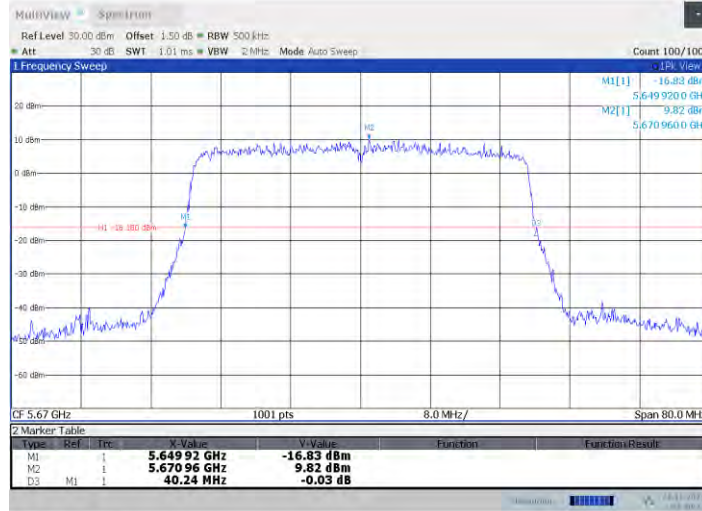
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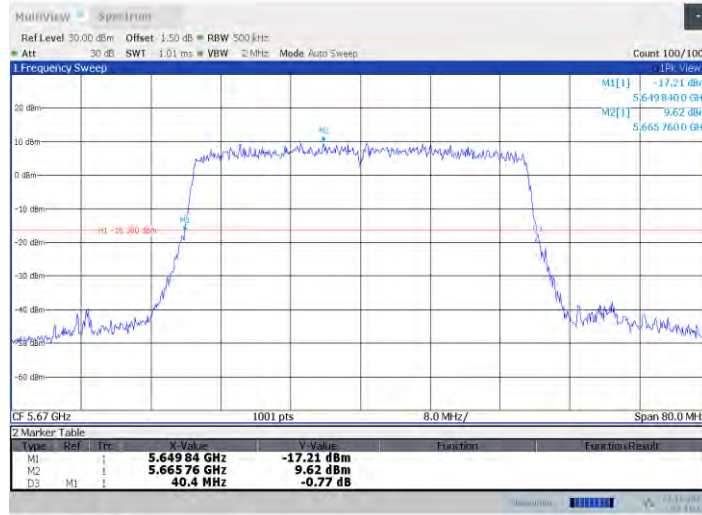
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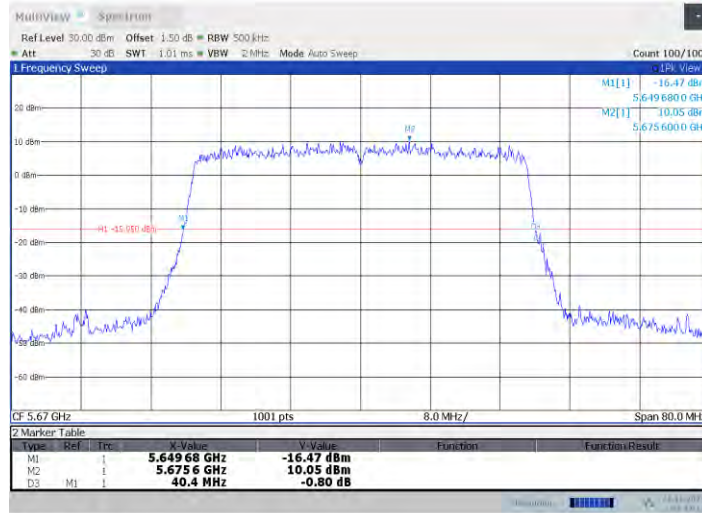
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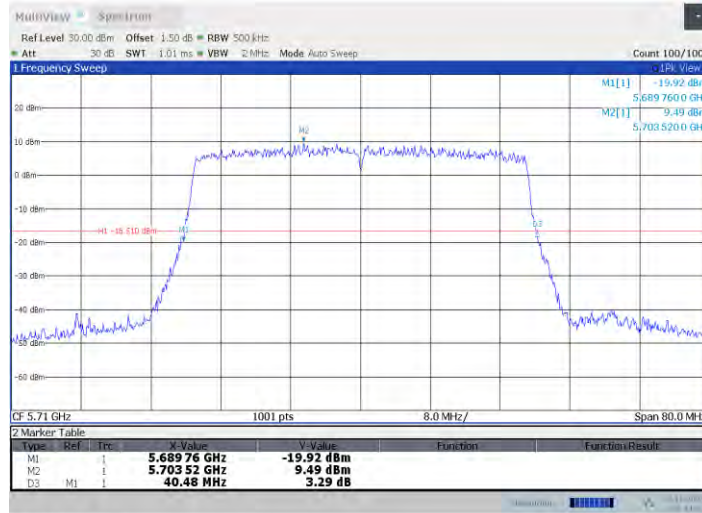
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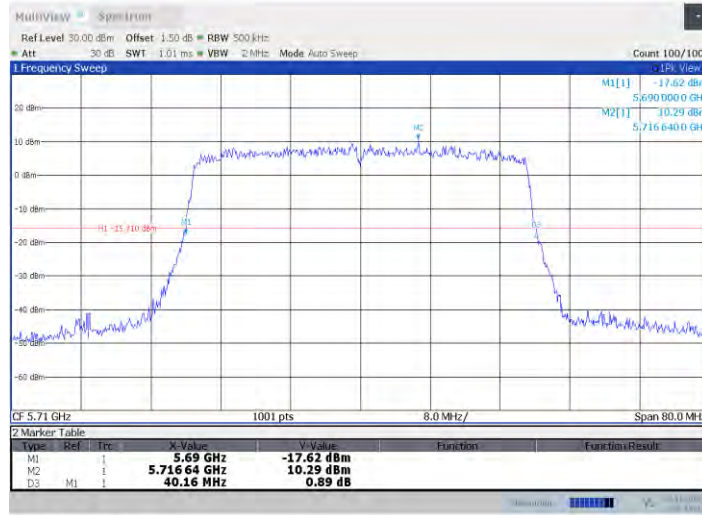
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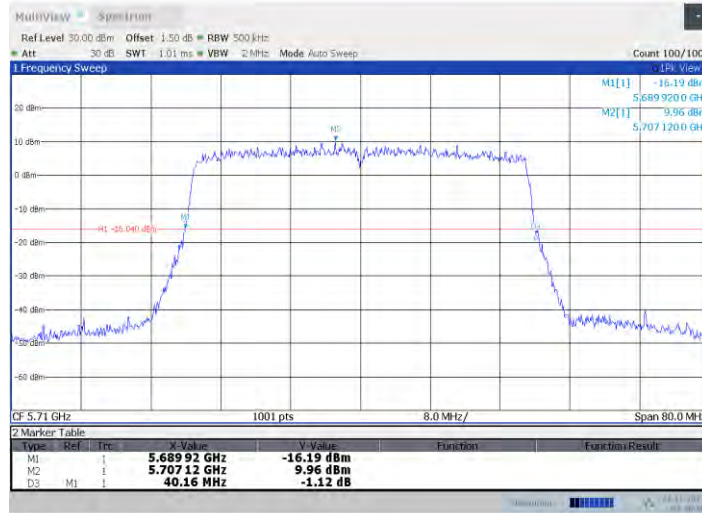
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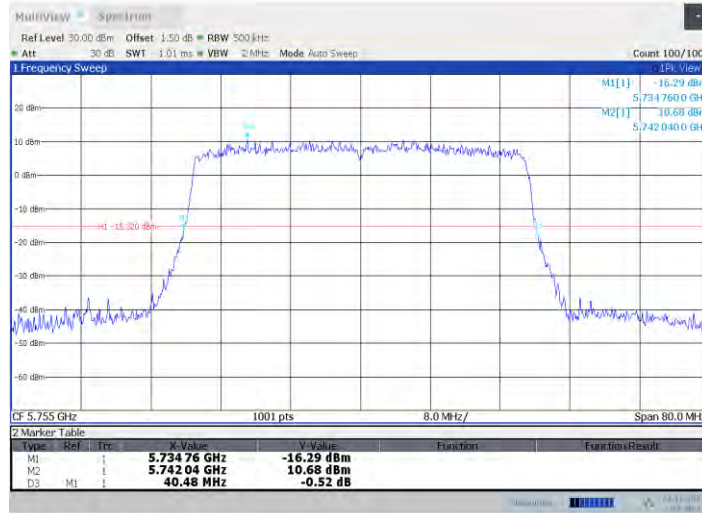


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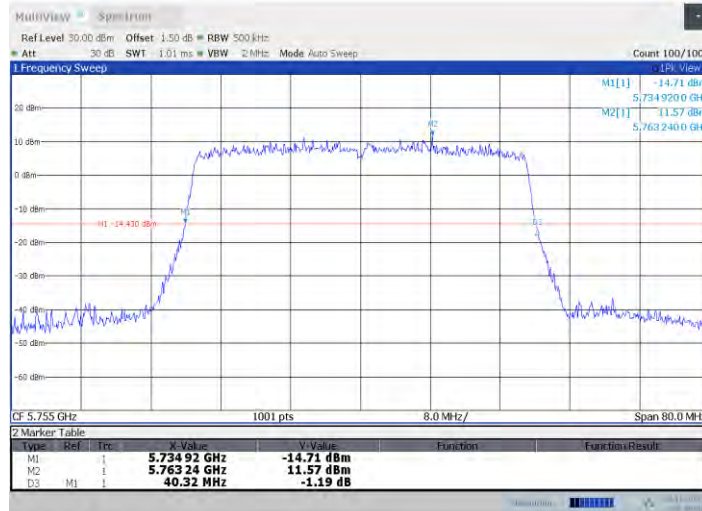


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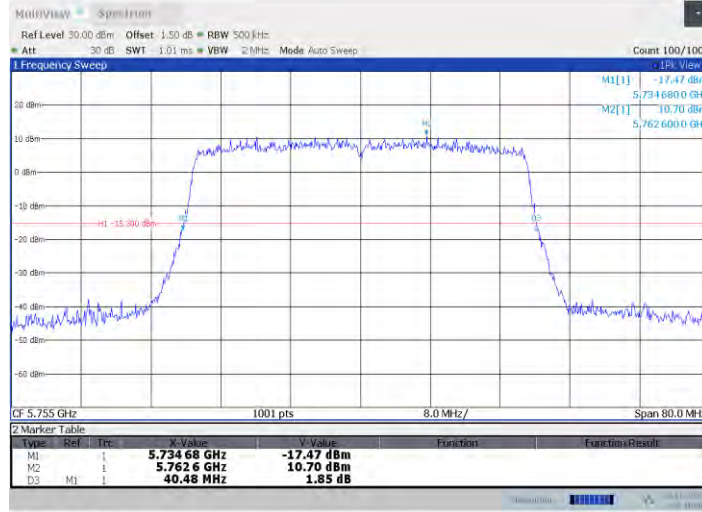


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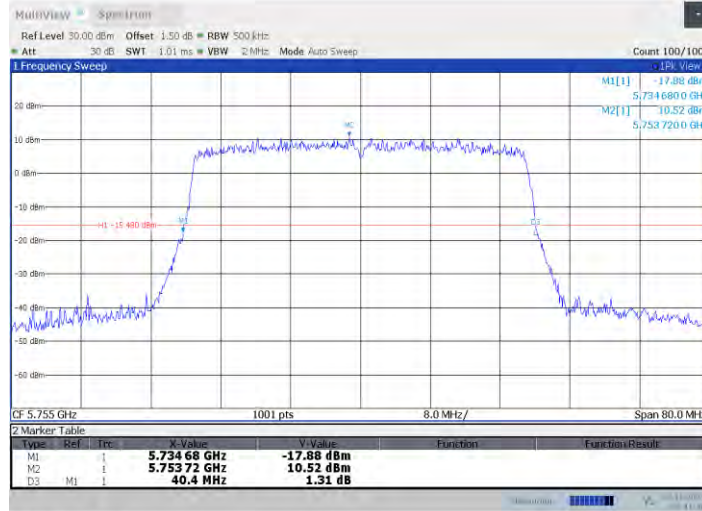
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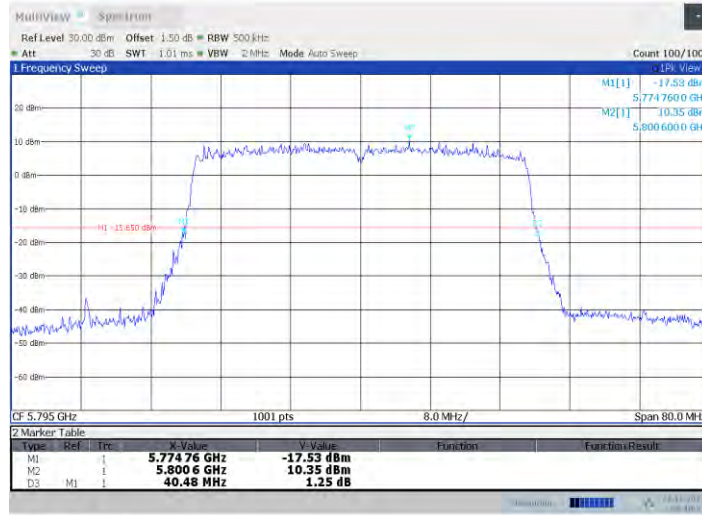
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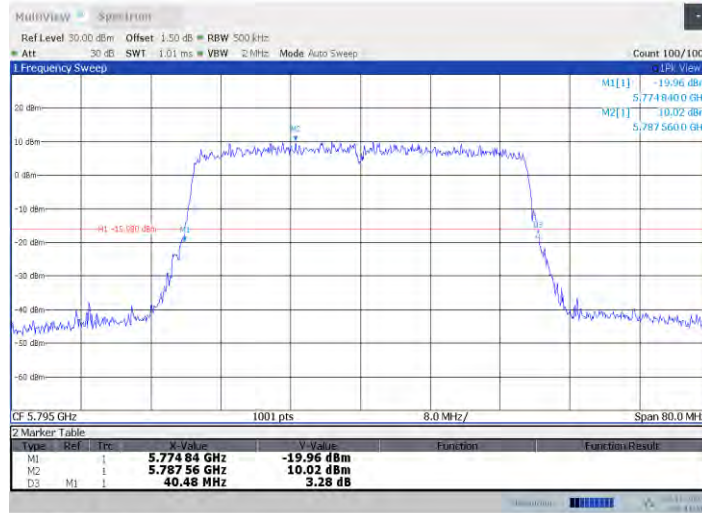
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11x40MIMO Ant3 5795



08:40:58 24.11.2022

11x40MIMO Ant4 5795



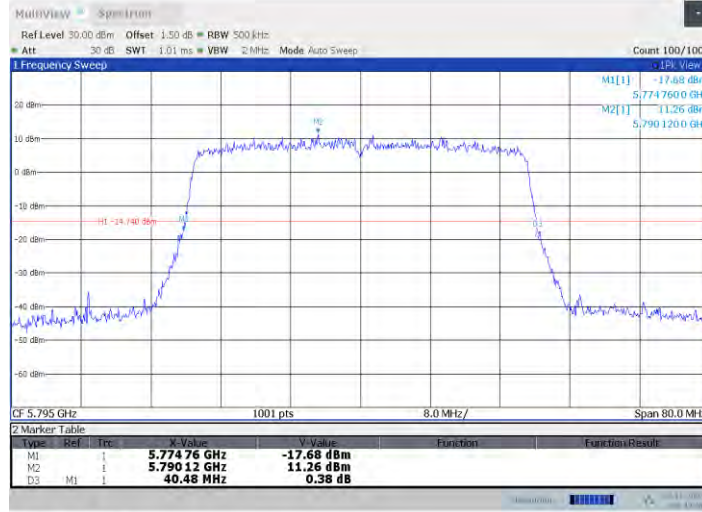
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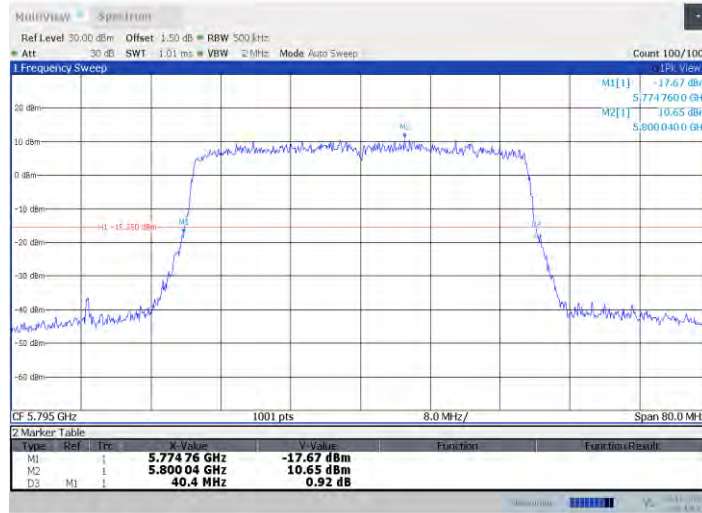
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11x40MIMO Ant5 5795



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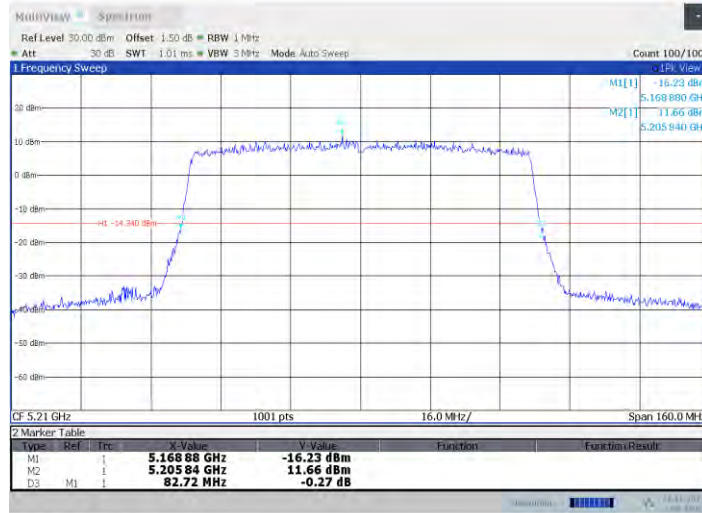
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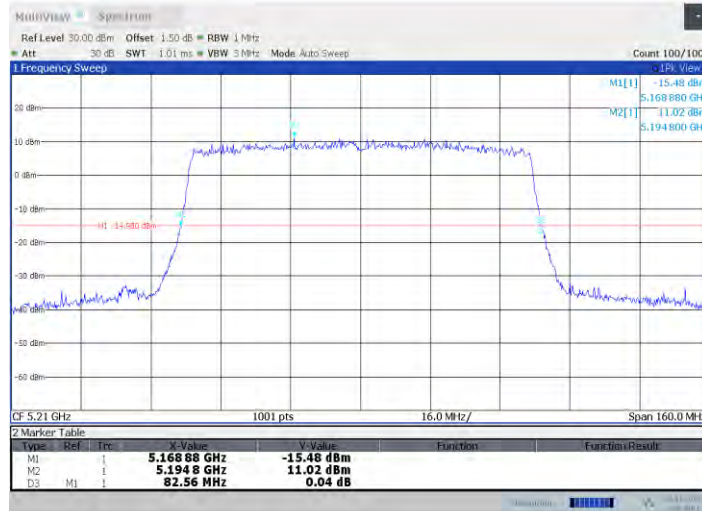
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11x80MIMO Ant3 5210



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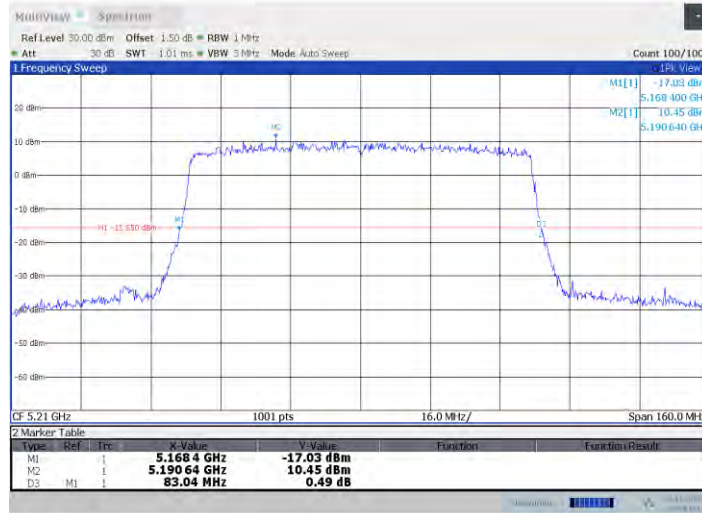


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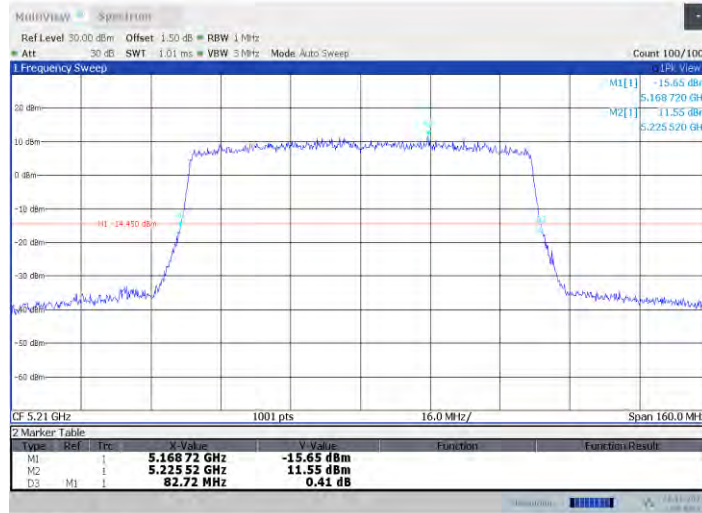
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09:01:45 24.11.2022

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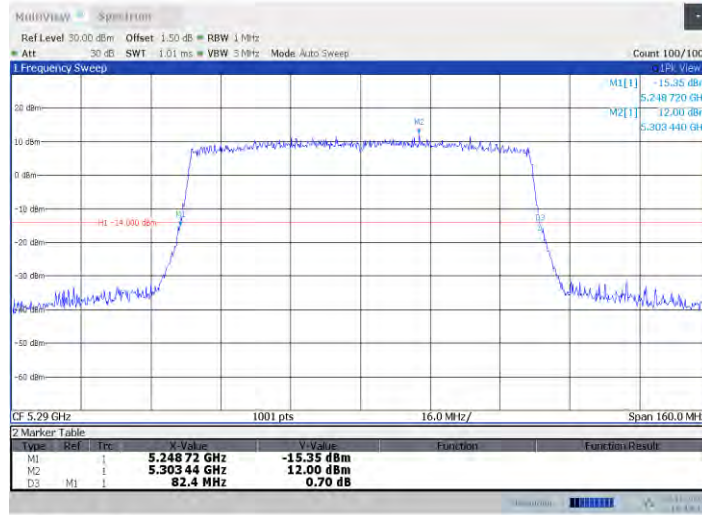


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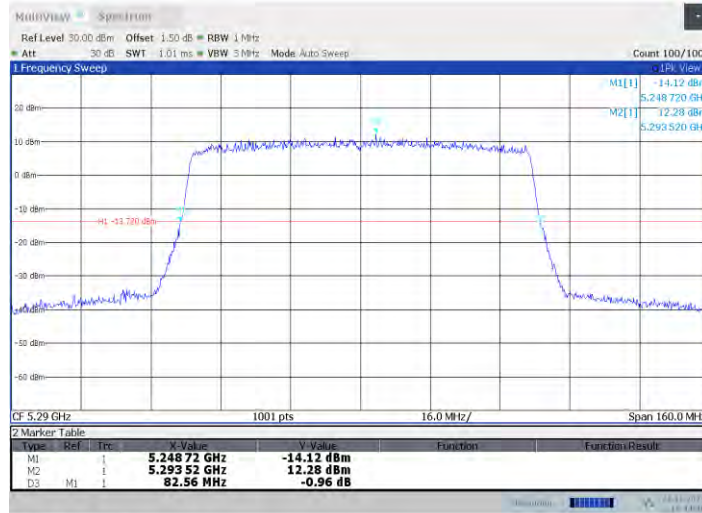
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10:43:48 24.11.2022

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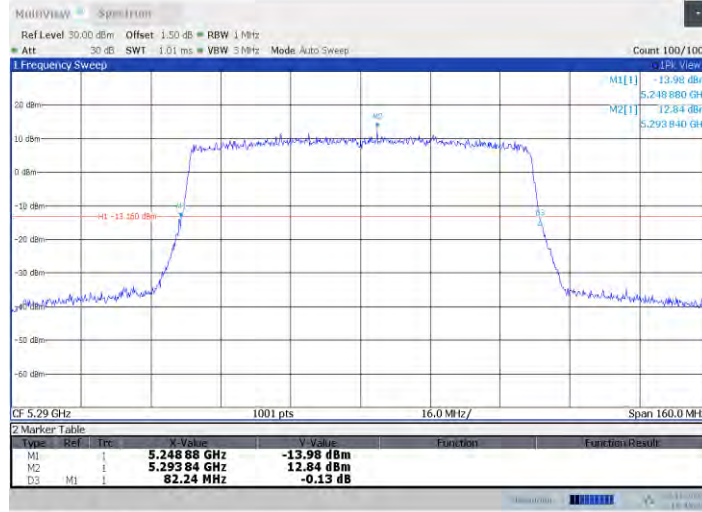


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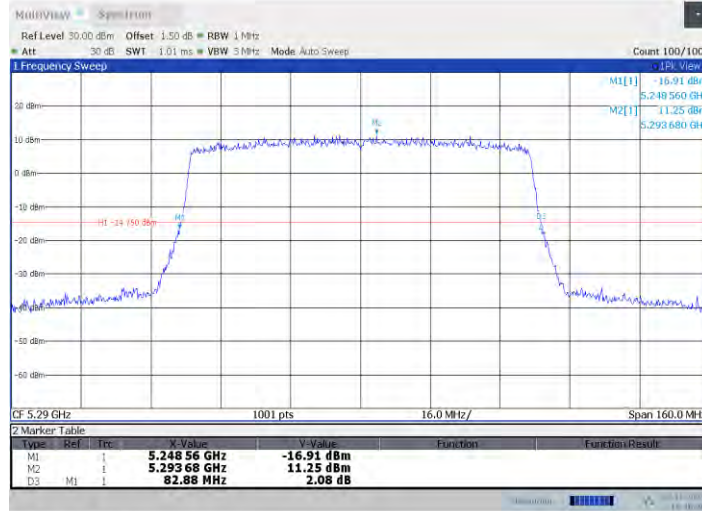
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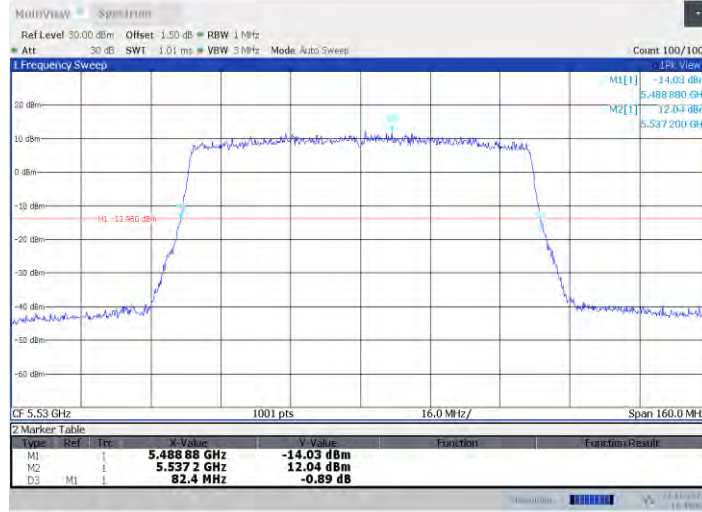


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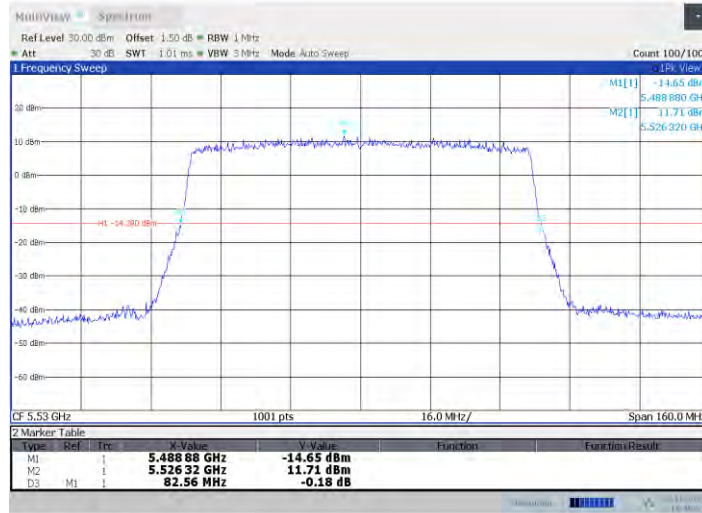


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