

Report No.: SEWM2209000178RG04  
 Rev.: 01  
 Page: 1 of 697

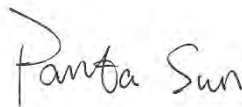
# TEST REPORT

**Application No.:** SEWM2209000178RG  
**Applicant:** Xiamen Four-Faith Communication Technology Co., Ltd.  
**Address of Applicant:** 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.  
**Manufacturer:** Xiamen Four-Faith Communication Technology Co., Ltd.  
**Address of Manufacturer:** 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.  
**EUT Description:** 5G CPE  
**Model No.:** F-NR300  
**Trade Mark:** Four-Faith  
**FCC ID:** 2ALUW-FNR300  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart E  
**Date of Receipt:** 2022/09/26  
**Date of Test:** 2022/10/31 to 2022/12/19  
**Date of Issue:** 2022/12/22

<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:




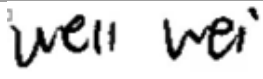
Panta Sun  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/12/22		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	--	No limit.	Clause 4.3	Reporting only
	Band II-A				
	Band II-C				
	Band III				
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).		PASS



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			F $\geq$ 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 $\geq$ 1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F $\geq$ 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 $\geq$ 1GHz & out-restricted:(QP) 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; 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; 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 d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F $\geq$ 1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
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

## Contents



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Applicant:	11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.
Manufacturer:	Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Manufacturer:	11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.

#### 3.2 Test Location

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

#### 3.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**  
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.
- **Innovation, Science and Economic Development Canada**  
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.  
 CAB identifier: CN0120.  
 IC#: 27594.
- **FCC –Designation Number: CN1312**  
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.  
 Designation Number: CN1312.  
 Test Firm Registration Number: 717327



### 3.4 General Description of EUT

EUT Description:	5G CPE	
Model No.:	F-NR300	
Trade Mark:	Four-Faith	
Hardware Version:	V1.5	
Software Version:	FNR300-NA_A311294	
IMEI:	RF Conducted	862424050044030
	RSE & AC power line	862424030041085
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
	802.11ax:	20 MHz / 40 MHz / 80 MHz 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)
Antenna Type:	PCB Antenna	
Antenna Gain:	5150MHz to 5250MHz: 2.58dBi(Ant1); 2.54dBi(Ant2); 2.86dBi(Ant3); 2.68dBi(Ant4)	
	5250MHz to 5350MHz: 3.08dBi(Ant1); 2.13dBi(Ant2); 1.86dBi(Ant3); 3.08dBi(Ant4)	
	5470MHz to 5725MHz: 2.39dBi(Ant1); 3.02dBi(Ant2); 2.79dBi(Ant3); 3.11dBi(Ant4)	
	5725MHz to 5850MHz: 1.51dBi(Ant1); 3.13dBi(Ant2); 2.38dBi(Ant3); 3.05dBi(Ant4)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11a
	<input checked="" type="checkbox"/> MIMO	802.11n/ac/ax:4Tx & 4Rx



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	<input type="checkbox"/> Diversity	CDD:802.11a: 4Tx & 4Rx
TPC Function:	<input checked="" type="checkbox"/> Support	
Use Conditions:	Indoor	
RF Cable:	2dB	
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.		

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

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

**For UNII Band I:**

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

**For UNII Band II-A:**

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

**For UNII Band II-C:**



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Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11ac/ax 80MHz	The Lowest channel	5530
	The Highest channel	5610

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

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

**Note:**

1. The above Frequency and Channel in “\*” were 802.11n HT40 and 802.11ac VHT40 and 802.11ax VHE40.
2. The above Frequency and Channel in “#” were 802.11ac VHT80 and 802.11ax VHE80.



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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	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:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11n (HT 40)	/	MCS0 (27 Mbps)
802.11ac (VHT 20)	/	MCS0 (13 Mbps)
802.11ac (VHT 40)	/	MCS0 (27 Mbps)
802.11ac (VHT 80)	/	MCS0 (58.5 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)
802.11ax (HE 80)	/	MCS0 (68 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 on the main PCB and no consideration of replacement. The best case gain of the antenna is</p> <p>5150MHz to 5250MHz:          2.58dBi(Ant1); 2.54dBi(Ant2); 2.86dBi(Ant3); 2.68dBi(Ant4)*</p> <p>5250MHz to 5350MHz:          3.08dBi(Ant1); 2.13dBi(Ant2); 1.86dBi(Ant3); 3.08dBi(Ant4)*</p> <p>5470MHz to 5725MHz:          2.39dBi(Ant1); 3.02dBi(Ant2); 2.79dBi(Ant3); 3.11dBi(Ant4)*</p> <p>5725MHz to 5850MHz:          1.51dBi(Ant1); 3.13dBi(Ant2); 2.38dBi(Ant3); 3.05dBi(Ant4)*</p> <p><i>*Note:</i>  <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i>  <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.</i></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-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.**

The EUT supports CDD System.

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	2.58	2.54	2.86	2.68	2.67	8.69	0	2.69
5250MHz to 5350MHz	3.08	2.13	1.86	3.08	2.57	8.58	0	2.58
5470MHz to 5725MHz	2.39	3.02	2.79	3.11	2.84	8.85	0	2.85
5725MHz to 5850MHz	1.51	3.13	2.38	3.05	2.56	8.56	0	2.56

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0  
 PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi ) =8.69 - 6 = 2.69

5250MHz to 5350MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0  
 PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi ) =8.58 - 6 = 2.58

5470MHz to 5725MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0  
 PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi ) =8.85 - 6 = 2.85

5725MHz to 5850MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0  
 PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi ) =8.56 - 6 = 2.56



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## 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> <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>



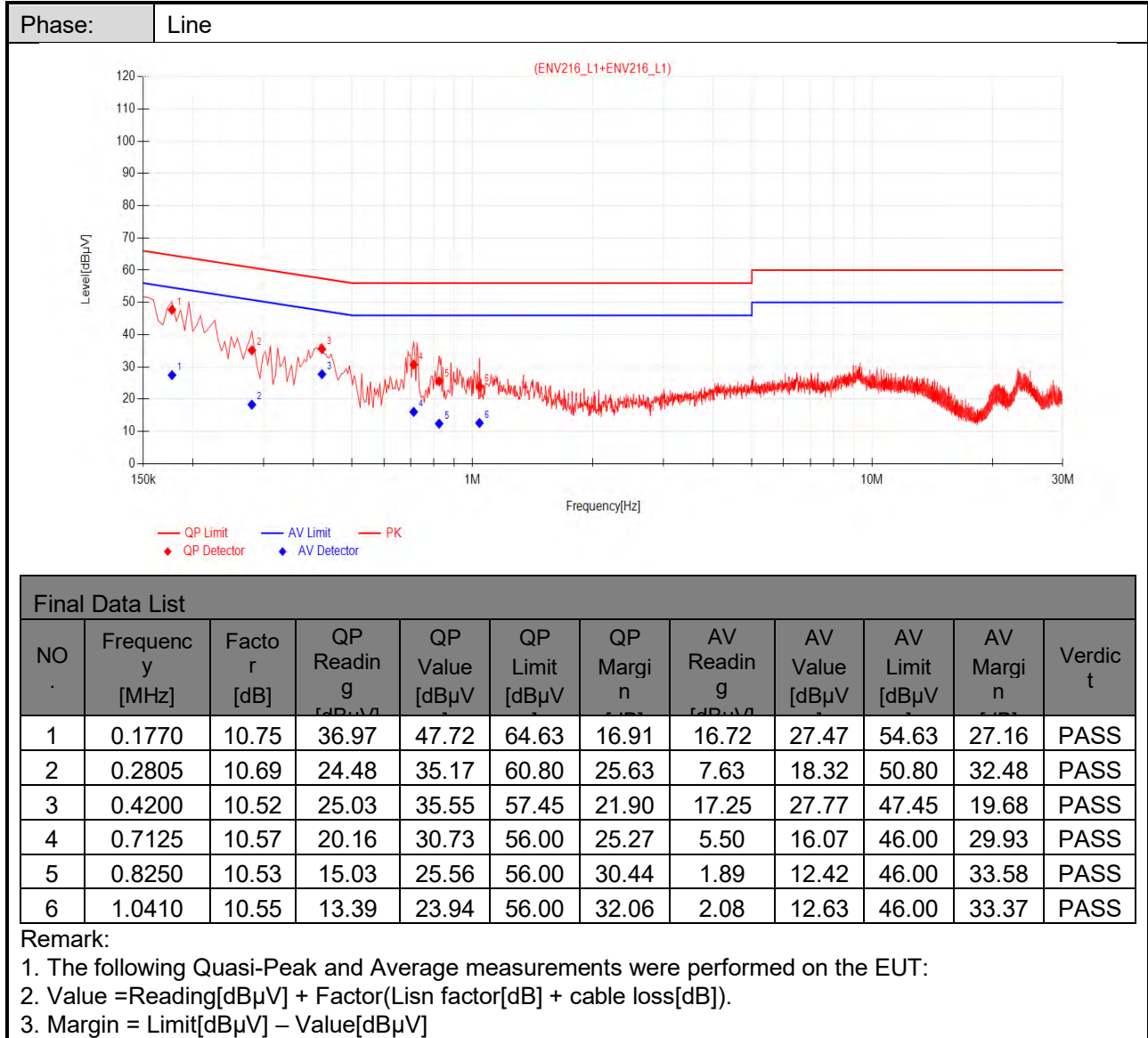
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Measurement Data

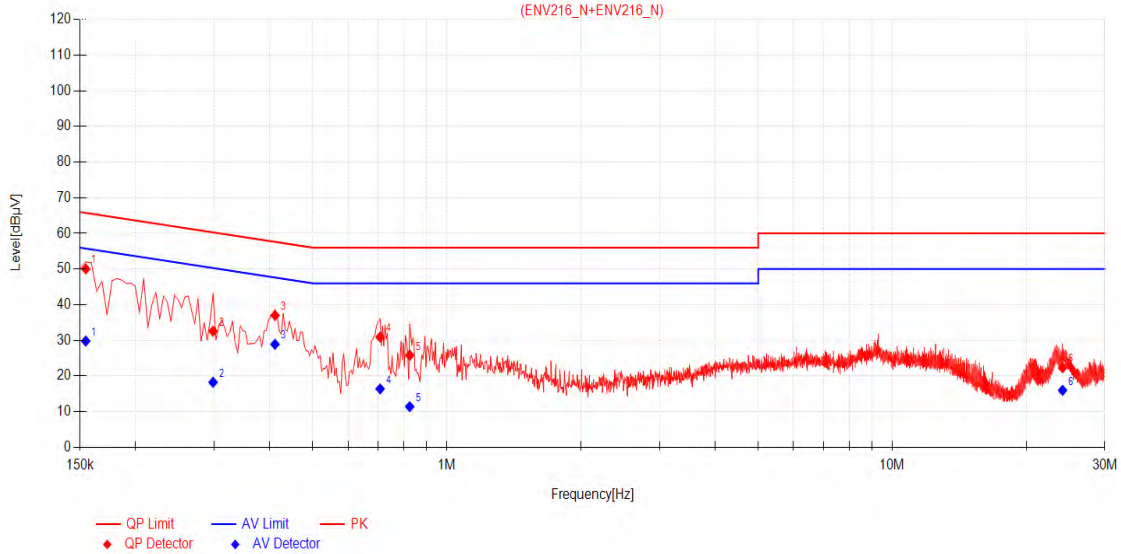
An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Phase: Neutral



Final Data List

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	10.72	39.31	50.03	65.75	15.72	19.09	29.81	55.75	25.94	PASS
2	0.2985	10.76	21.80	32.56	60.28	27.72	7.48	18.24	50.28	32.04	PASS
3	0.4110	10.83	26.18	37.01	57.63	20.62	18.06	28.89	47.63	18.74	PASS
4	0.7080	10.81	20.13	30.94	56.00	25.06	5.57	16.38	46.00	29.62	PASS
5	0.8250	10.80	15.03	25.83	56.00	30.17	0.60	11.40	46.00	34.60	PASS
6	24.1260	10.52	11.81	22.33	60.00	37.67	5.46	15.98	50.00	34.02	PASS

Remark:

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



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### 4.3 Duty Cycle

The detailed test data see: **Appendix**



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### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)(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>		



### 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>	



### 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>		



### 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>	



### 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>		



### 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:

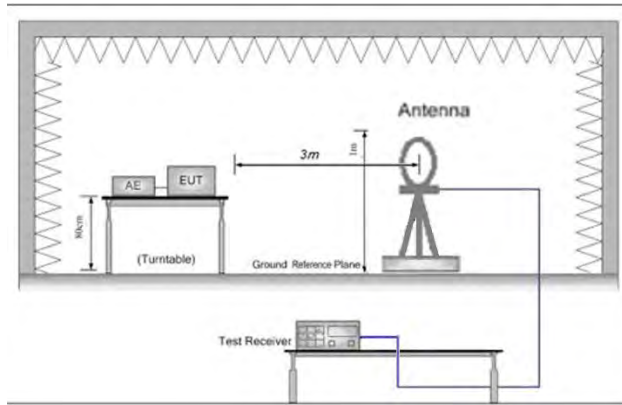


Figure 1. 9kHz to 30MHz

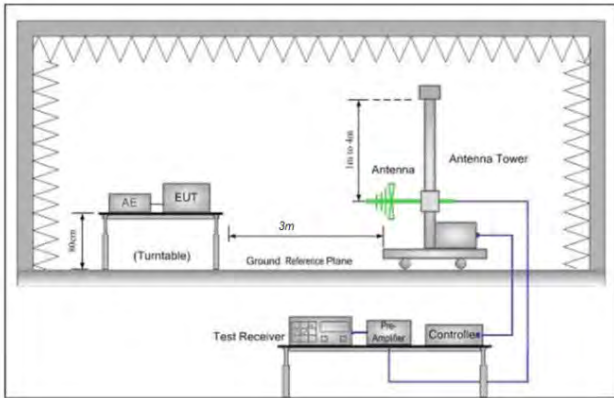


Figure 1. 30MHz to 1GHz

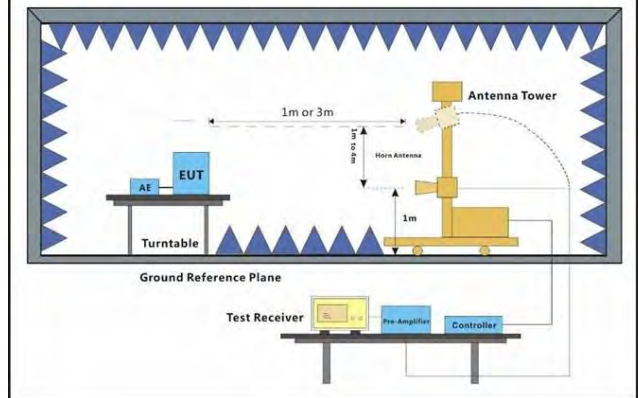


Figure 2. Above 1 GHz

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



	<p>vertical polarizations of the antenna are set to make the measurement.</p> <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</math> 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 <math>\geq</math> [3 *RBW]</li> <li>• Detector = RMS (power averaging), if span / (# of points in sweep) <math>\leq</math> (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>
<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>	

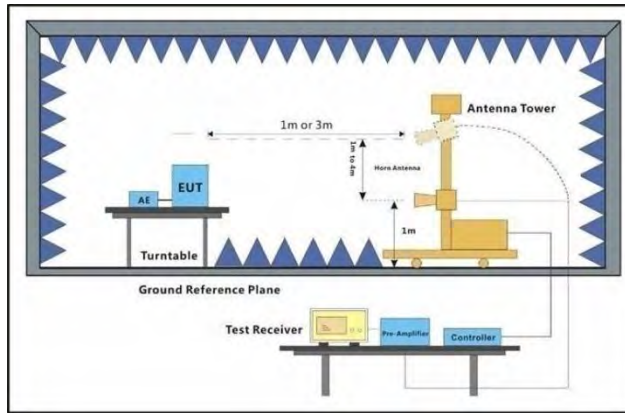




### 4.10 Restricted bands around fundamental frequency

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	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.



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



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## 6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
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
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
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
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
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 4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd )	Cal Due Date (yyyy/mm/dd )
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04 2022/11/23	2022/12/03 2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RE V4.0.0.1	SUWI-02-09-04	NCR	NCR



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## 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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**Emission Bandwidth  
Test Result**

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant4	5180	20.52	5169.76	5190.28	---	---
		5220	20.40	5209.84	5230.24	---	---
		5240	20.20	5229.92	5250.12	---	---
		5260	20.40	5249.84	5270.24	---	---
		5300	20.24	5289.88	5310.12	---	---
		5320	20.32	5309.76	5330.08	---	---
		5500	20.32	5489.88	5510.20	---	---
		5580	20.36	5569.88	5590.24	---	---
		5700	20.20	5689.92	5710.12	---	---
		5745	28.40	5729.12	5757.52	---	---
		5785	21.40	5773.84	5795.24	---	---
	5825	22.24	5813.04	5835.28	---	---	
11ax20MIMO	Ant1	5180	26.20	5167.60	5193.80	---	---
	Ant2	5180	25.08	5167.92	5193.00	---	---
	Ant3	5180	28.00	5167.04	5195.04	---	---
	Ant4	5180	23.52	5168.28	5191.80	---	---
	Ant1	5220	22.24	5208.80	5231.04	---	---
	Ant2	5220	26.80	5206.44	5233.24	---	---
	Ant3	5220	25.00	5207.32	5232.32	---	---
	Ant4	5220	22.12	5208.96	5231.08	---	---
	Ant1	5240	20.08	5230.00	5250.08	---	---
	Ant2	5240	20.00	5230.04	5250.04	---	---
	Ant3	5240	20.12	5230.00	5250.12	---	---
	Ant4	5240	20.04	5230.04	5250.08	---	---
	Ant1	5260	22.76	5248.76	5271.52	---	---
	Ant2	5260	25.60	5247.80	5273.40	---	---
	Ant3	5260	22.28	5248.80	5271.08	---	---
	Ant4	5260	22.88	5248.96	5271.84	---	---
	Ant1	5300	22.20	5288.88	5311.08	---	---
	Ant2	5300	22.76	5288.32	5311.08	---	---
	Ant3	5300	22.96	5288.16	5311.12	---	---
	Ant4	5300	24.00	5288.76	5312.76	---	---
	Ant1	5320	22.96	5308.80	5331.76	---	---
	Ant2	5320	25.00	5308.32	5333.32	---	---
	Ant3	5320	23.44	5307.64	5331.08	---	---
	Ant4	5320	25.84	5306.72	5332.56	---	---
	Ant1	5500	24.04	5488.92	5512.96	---	---
	Ant2	5500	23.28	5489.08	5512.36	---	---
	Ant3	5500	22.12	5488.96	5511.08	---	---
	Ant4	5500	23.48	5487.92	5511.40	---	---
	Ant1	5580	25.48	5568.56	5594.04	---	---
	Ant2	5580	22.12	5569.00	5591.12	---	---
	Ant3	5580	23.60	5568.84	5592.44	---	---
	Ant4	5580	29.24	5569.04	5598.28	---	---
	Ant1	5700	26.80	5688.12	5714.92	---	---
	Ant2	5700	22.52	5688.84	5711.36	---	---
	Ant3	5700	23.88	5687.44	5711.32	---	---
	Ant4	5700	23.56	5687.92	5711.48	---	---
	Ant1	5745	26.24	5731.68	5757.92	---	---
	Ant2	5745	28.60	5730.28	5758.88	---	---



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	Ant3	5745	27.16	5732.60	5759.76	---	---
	Ant4	5745	29.00	5732.08	5761.08	---	---
	Ant1	5785	24.44	5773.08	5797.52	---	---
	Ant2	5785	25.88	5772.92	5798.80	---	---
	Ant3	5785	25.68	5772.00	5797.68	---	---
	Ant4	5785	28.20	5768.76	5796.96	---	---
	Ant1	5825	27.04	5812.32	5839.36	---	---
	Ant2	5825	24.68	5813.08	5837.76	---	---
	Ant3	5825	25.04	5812.60	5837.64	---	---
	Ant4	5825	25.00	5813.84	5838.84	---	---
11ax40MIMO	Ant1	5190	39.76	5170.16	5209.92	---	---
	Ant2	5190	39.68	5170.16	5209.84	---	---
	Ant3	5190	39.76	5170.24	5210.00	---	---
	Ant4	5190	39.68	5170.24	5209.92	---	---
	Ant1	5230	39.68	5210.32	5250.00	---	---
	Ant2	5230	39.76	5210.16	5249.92	---	---
	Ant3	5230	39.76	5210.16	5249.92	---	---
	Ant4	5230	39.68	5210.24	5249.92	---	---
	Ant1	5270	39.68	5250.16	5289.84	---	---
	Ant2	5270	39.60	5250.24	5289.84	---	---
	Ant3	5270	39.76	5250.08	5289.84	---	---
	Ant4	5270	39.68	5250.24	5289.92	---	---
	Ant1	5310	39.84	5290.08	5329.92	---	---
	Ant2	5310	39.60	5290.24	5329.84	---	---
	Ant3	5310	39.76	5290.16	5329.92	---	---
	Ant4	5310	39.68	5290.24	5329.92	---	---
	Ant1	5510	39.60	5490.24	5529.84	---	---
	Ant2	5510	39.76	5490.16	5529.92	---	---
	Ant3	5510	39.84	5490.16	5530.00	---	---
	Ant4	5510	39.68	5490.24	5529.92	---	---
	Ant1	5550	39.68	5530.16	5569.84	---	---
	Ant2	5550	39.68	5530.24	5569.92	---	---
	Ant3	5550	39.76	5530.16	5569.92	---	---
	Ant4	5550	39.92	5530.16	5570.08	---	---
	Ant1	5670	39.76	5650.24	5690.00	---	---
	Ant2	5670	39.84	5650.08	5689.92	---	---
	Ant3	5670	39.76	5650.08	5689.84	---	---
	Ant4	5670	39.84	5650.24	5690.08	---	---
	Ant1	5755	39.84	5735.08	5774.92	---	---
	Ant2	5755	42.16	5732.68	5774.84	---	---
	Ant3	5755	41.92	5732.92	5774.84	---	---
	Ant4	5755	42.24	5732.68	5774.92	---	---
Ant1	5795	42.32	5772.76	5815.08	---	---	
Ant2	5795	39.76	5775.16	5814.92	---	---	
Ant3	5795	39.68	5775.24	5814.92	---	---	
Ant4	5795	42.24	5772.68	5814.92	---	---	
11ax80MIMO	Ant1	5210	80.80	5169.68	5250.48	---	---
	Ant2	5210	80.80	5169.68	5250.48	---	---
	Ant3	5210	80.80	5169.68	5250.48	---	---
	Ant4	5210	80.80	5169.68	5250.48	---	---
	Ant1	5290	80.64	5249.84	5330.48	---	---
	Ant2	5290	80.48	5249.84	5330.32	---	---
	Ant3	5290	80.64	5249.84	5330.48	---	---
	Ant4	5290	80.48	5249.84	5330.32	---	---
	Ant1	5530	80.64	5489.68	5570.32	---	---
	Ant2	5530	80.80	5489.68	5570.48	---	---



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Report No.: SEWM2209000178RG04  
 Rev.: 01  
 Page: 34 of 697

	Ant3	5530	80.64	5489.68	5570.32	---	---
	Ant4	5530	80.64	5489.84	5570.48	---	---
	Ant1	5610	80.48	5569.84	5650.32	---	---
	Ant2	5610	80.64	5569.84	5650.48	---	---
	Ant3	5610	80.80	5569.68	5650.48	---	---
	Ant4	5610	80.64	5569.68	5650.32	---	---
	Ant1	5775	80.64	5734.84	5815.48	---	---
	Ant2	5775	80.80	5734.84	5815.64	---	---
	Ant3	5775	80.80	5734.84	5815.64	---	---
	Ant4	5775	80.64	5734.84	5815.48	---	---

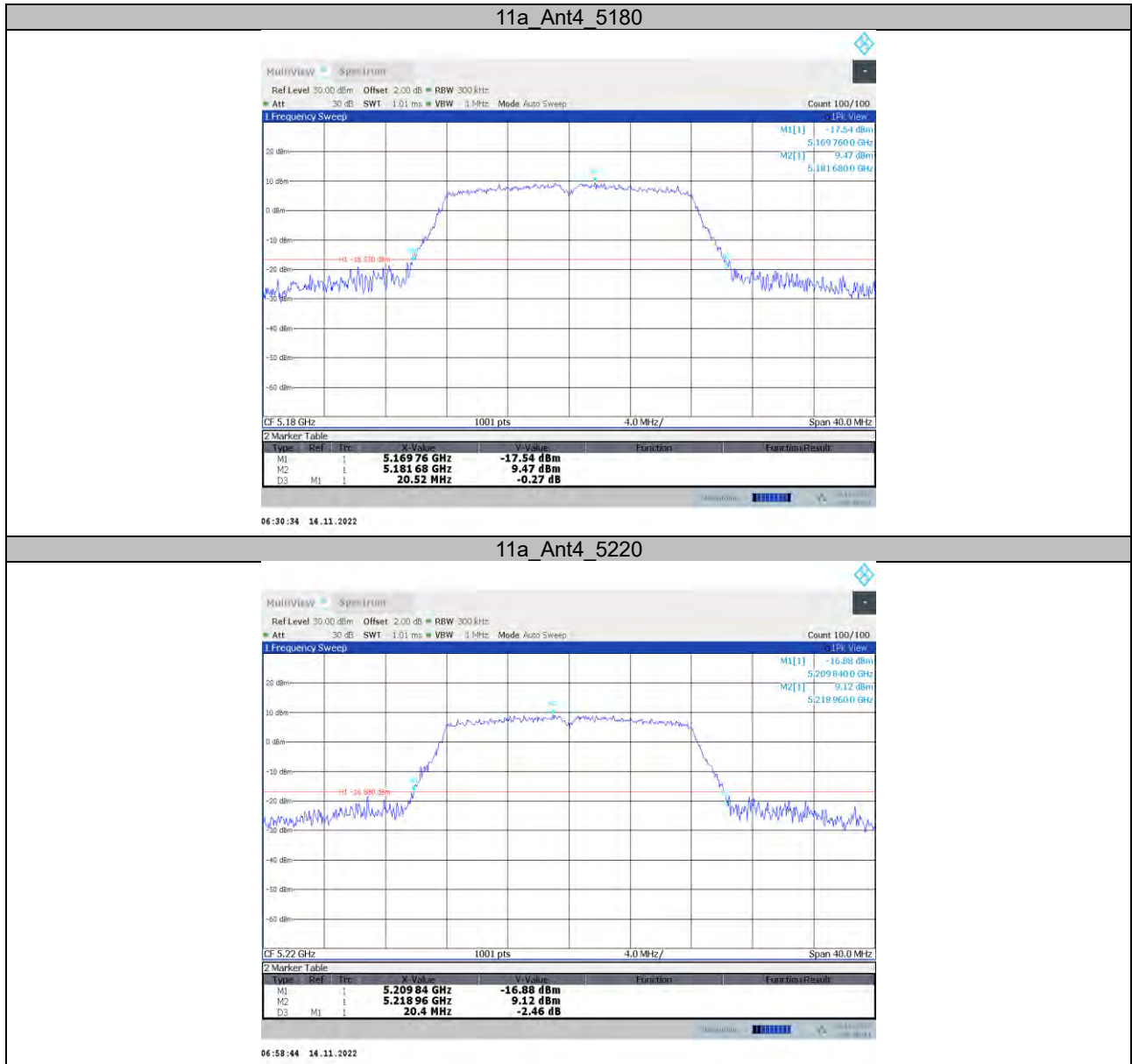
Remark: For 802.11n/ac/ax mode, the whole testing have assesd only 802.11ax HE20/HE40/HE80 by referring to the higher output power.



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Test Graphs

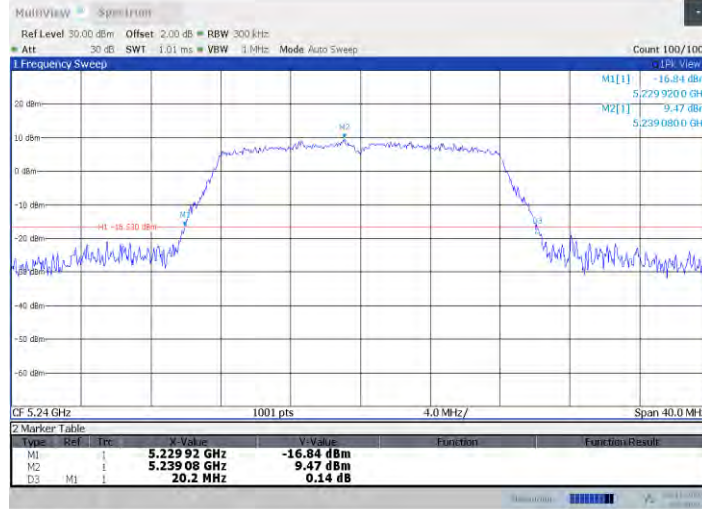


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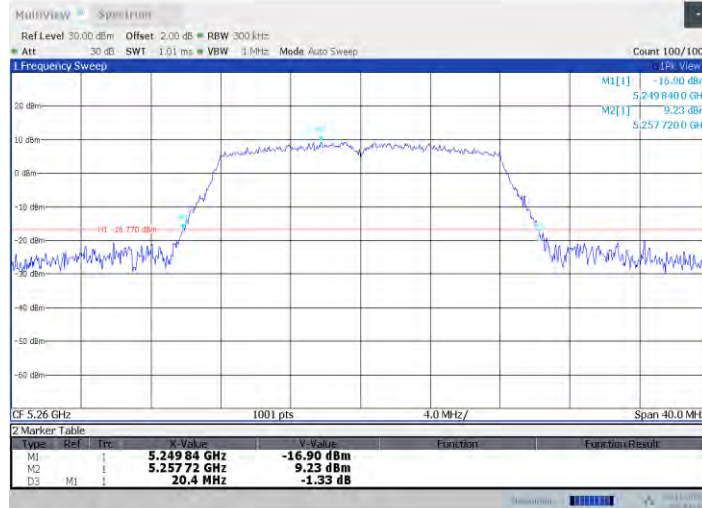
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11a Ant4 5240



07:00:24 14.11.2022

11a Ant4 5260



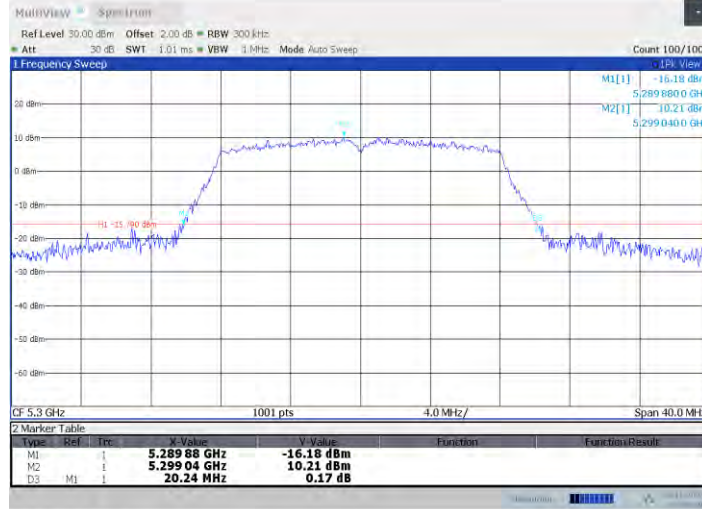
07:01:35 14.11.2022



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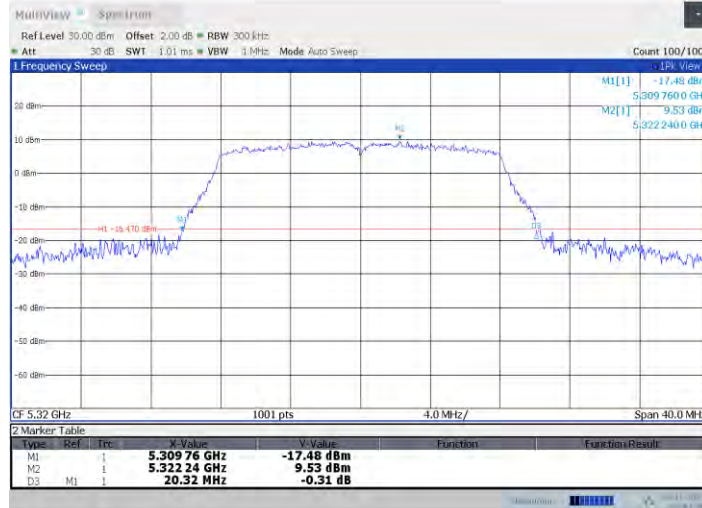
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11a Ant4 5300



07:03:28 14.11.2022

11a Ant4 5320



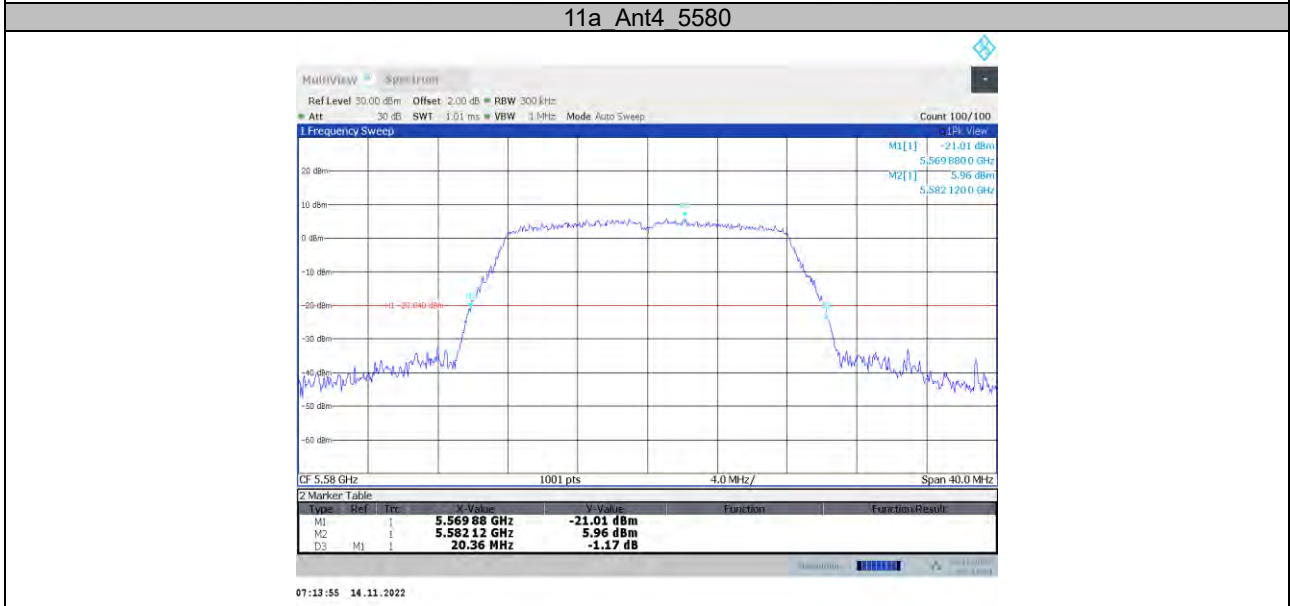
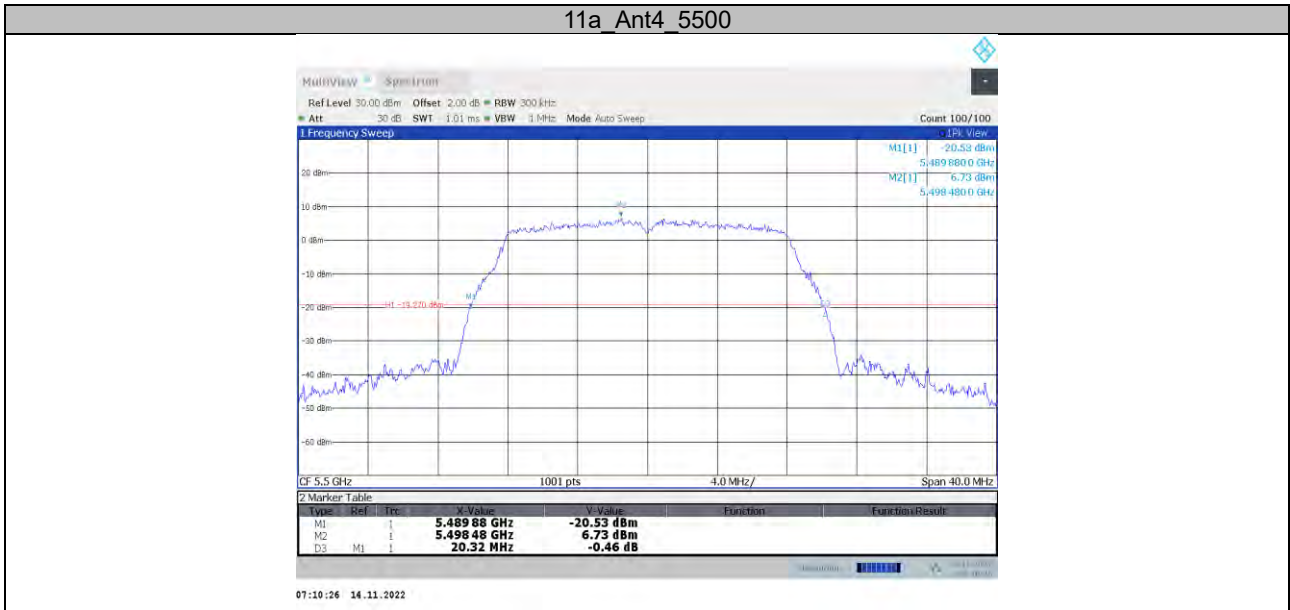
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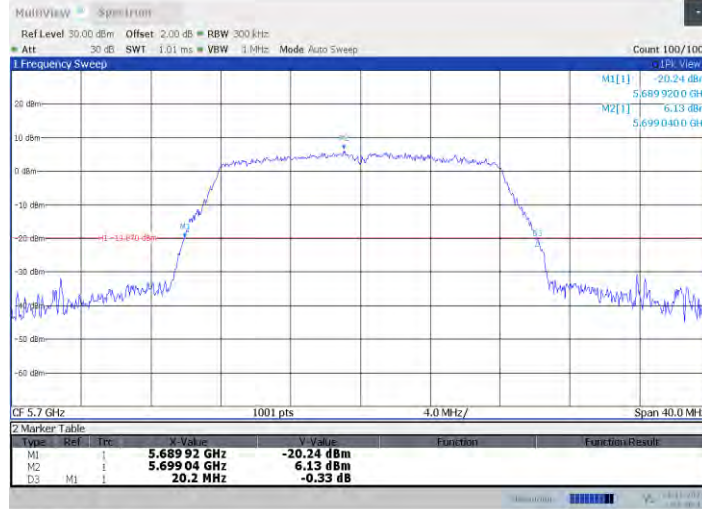


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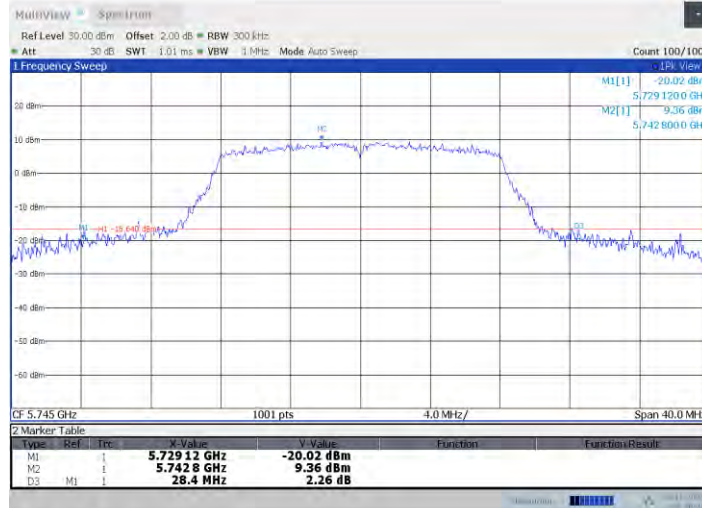
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11a Ant4 5700



07:18:47 14.11.2022

11a Ant4 5745



07:20:25 14.11.2022



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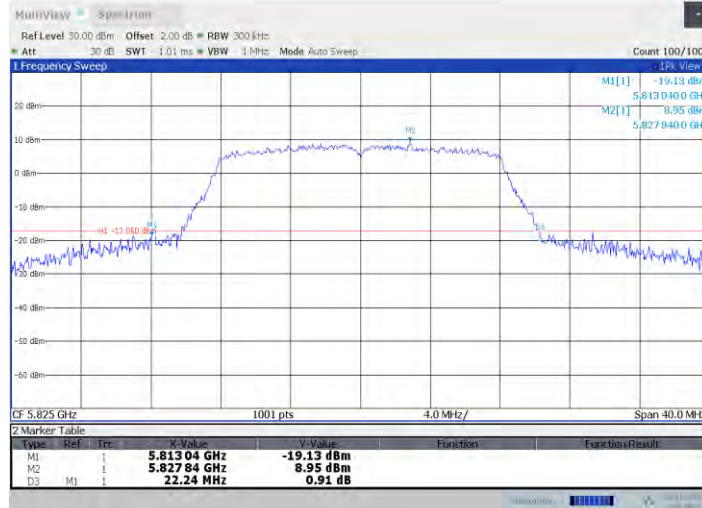
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11a Ant4 5785



07:23:43 14.11.2022

11a Ant4 5825



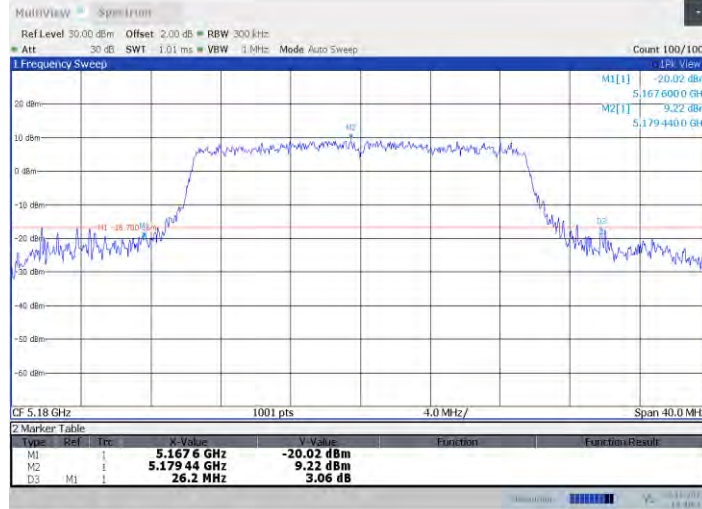
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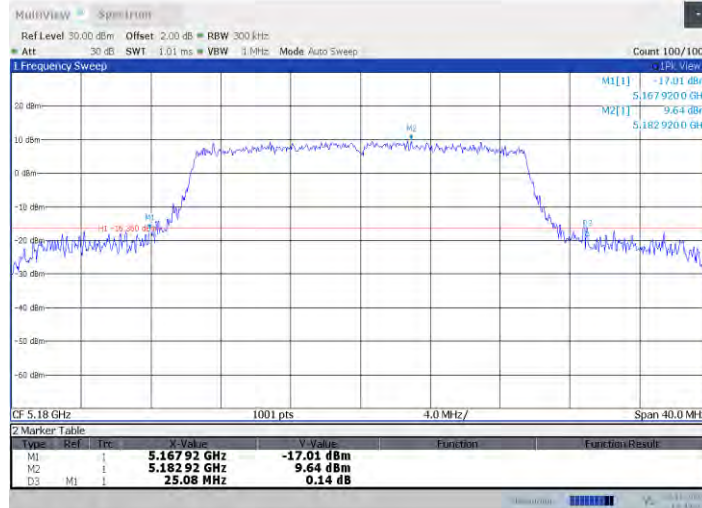


11ax20MIMO Ant1 5180



14:40:47 10.11.2022

11ax20MIMO Ant2 5180



14:42:22 10.11.2022



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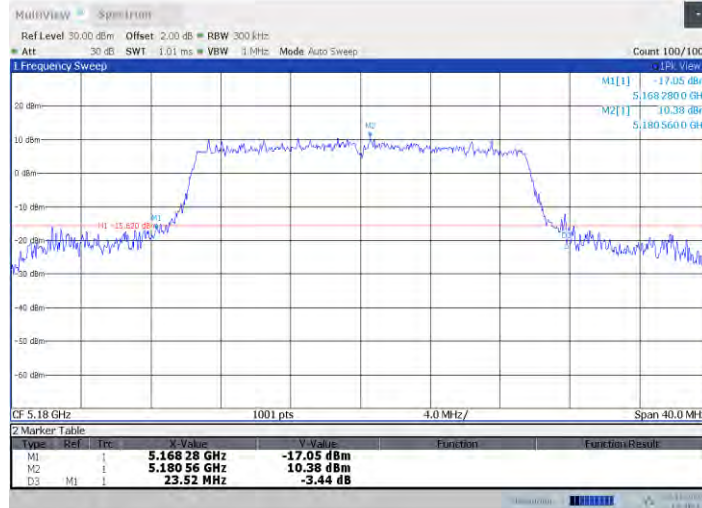
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11ax20MIMO Ant3 5180



14:44:13 10.11.2022

11ax20MIMO Ant4 5180



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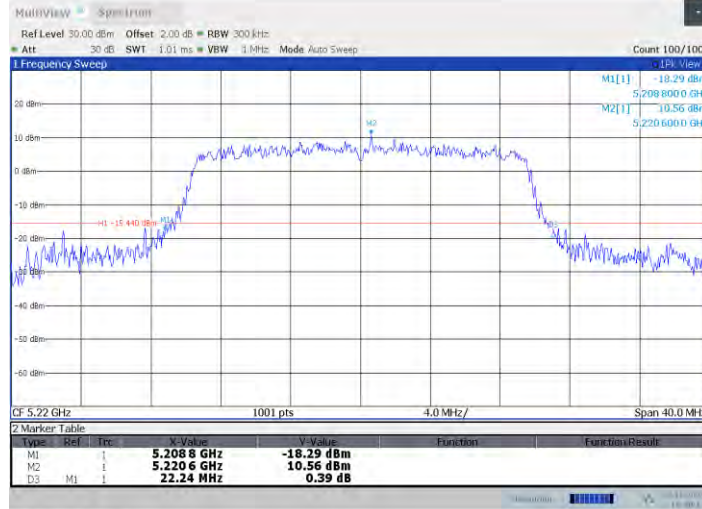


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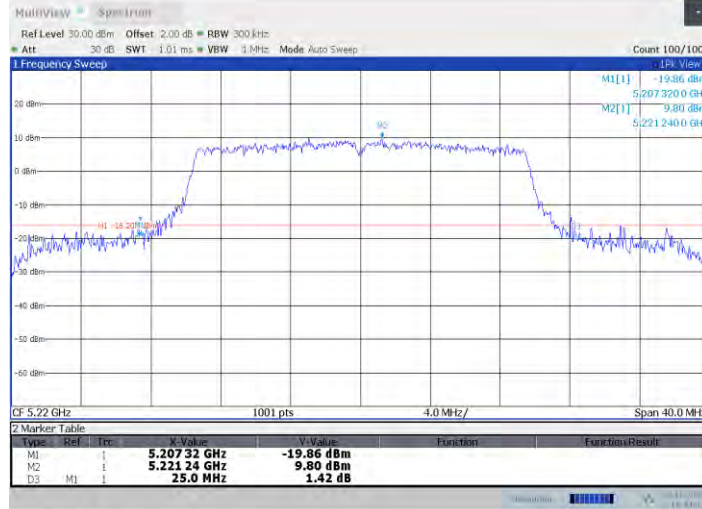


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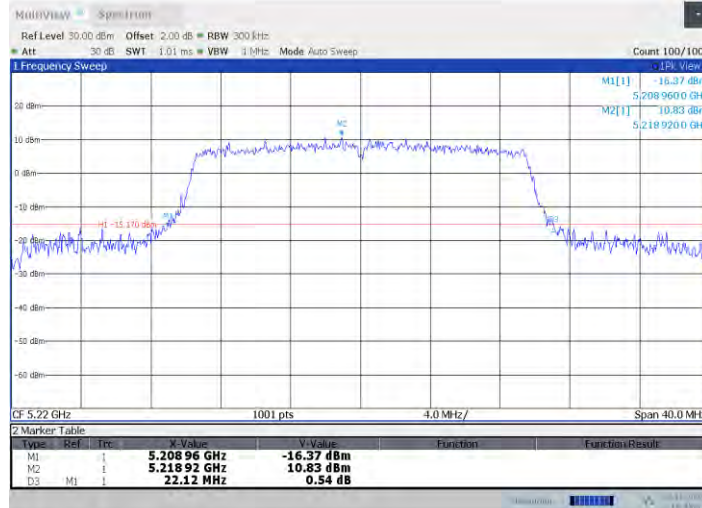
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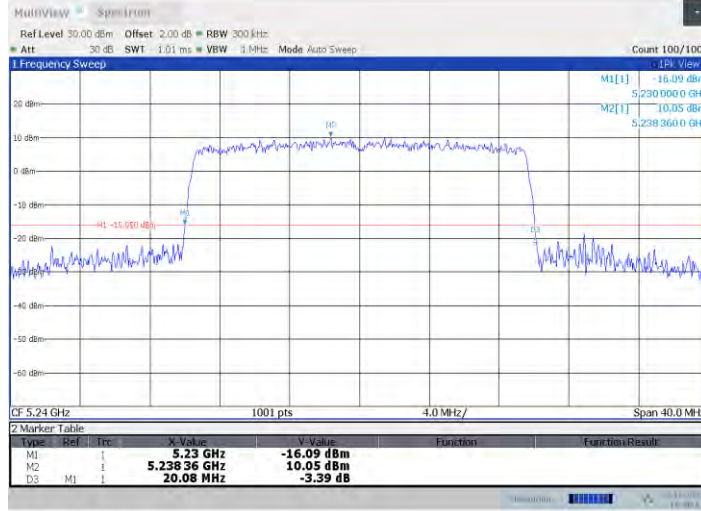


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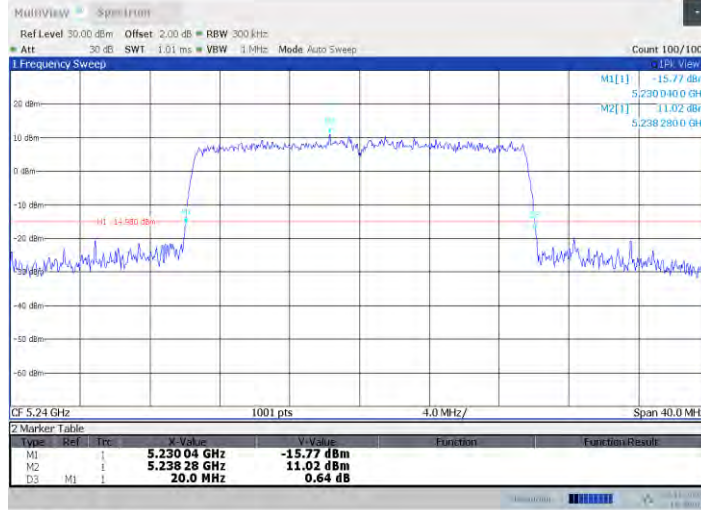
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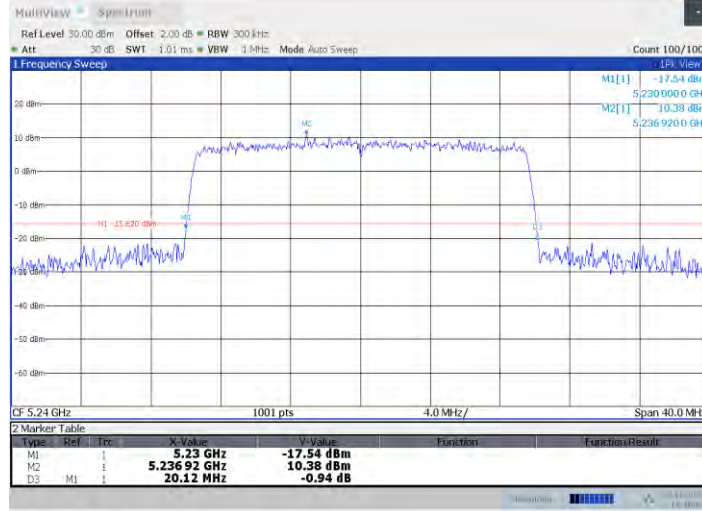


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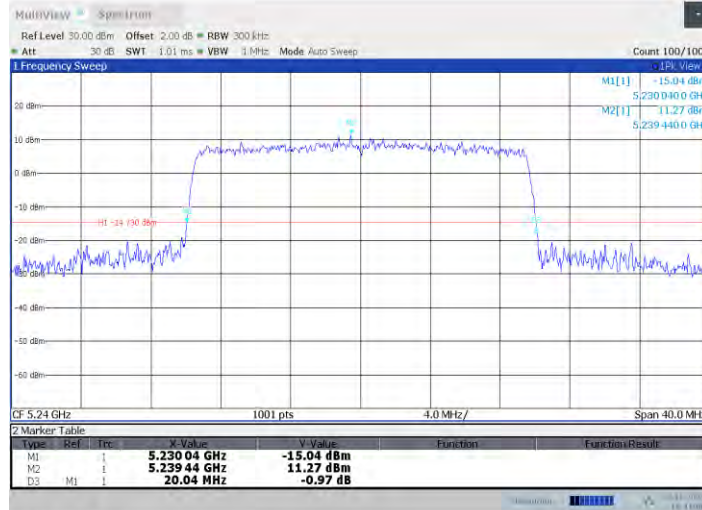
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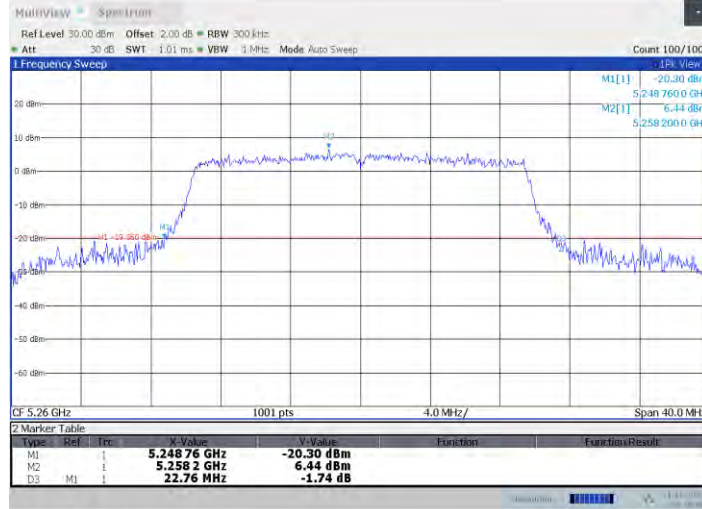


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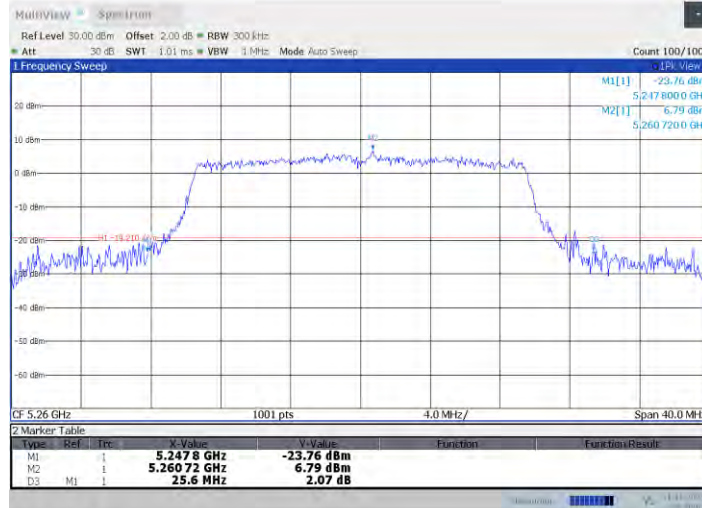
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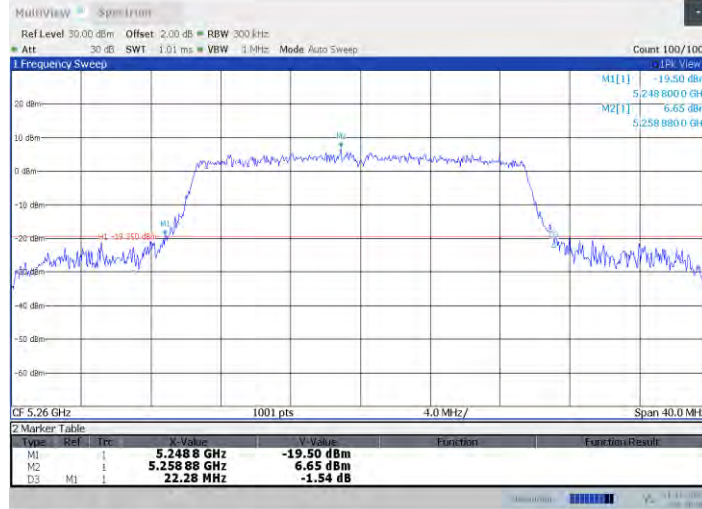


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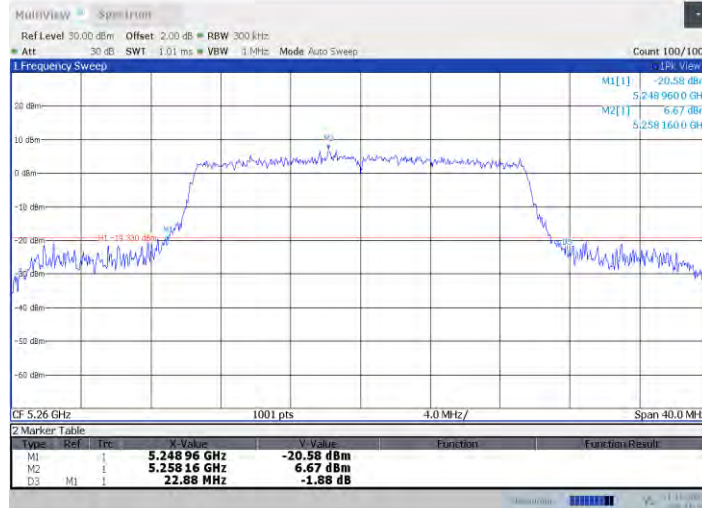
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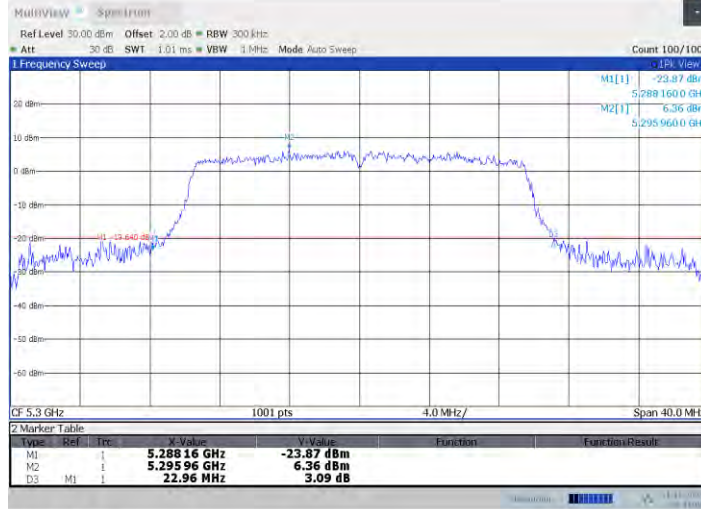


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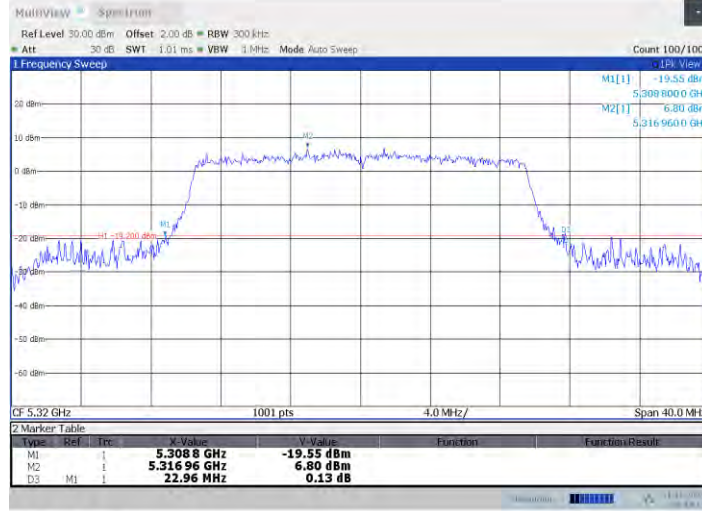


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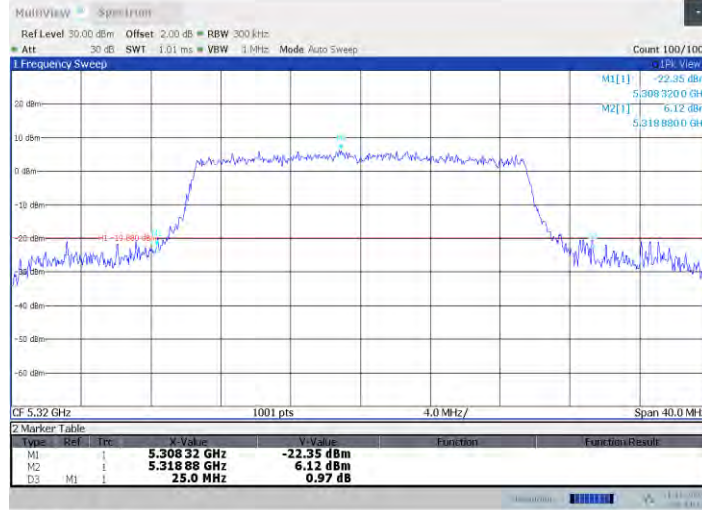
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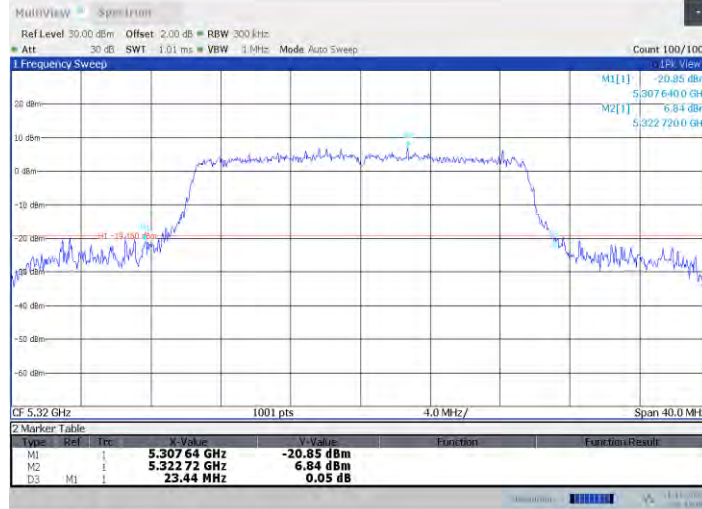
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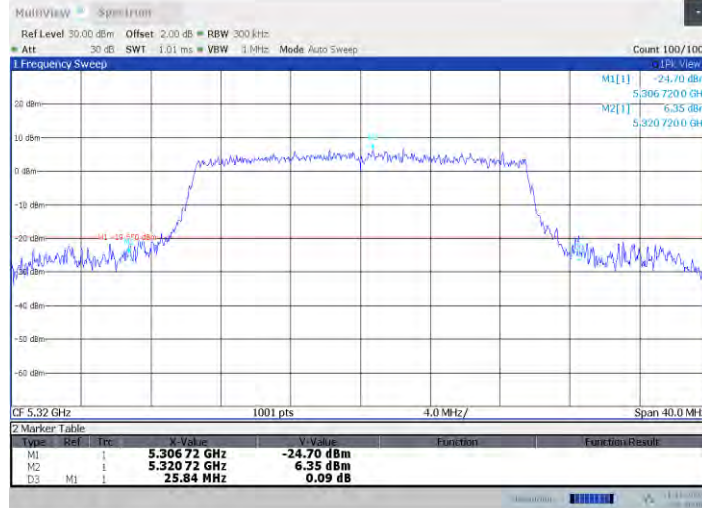
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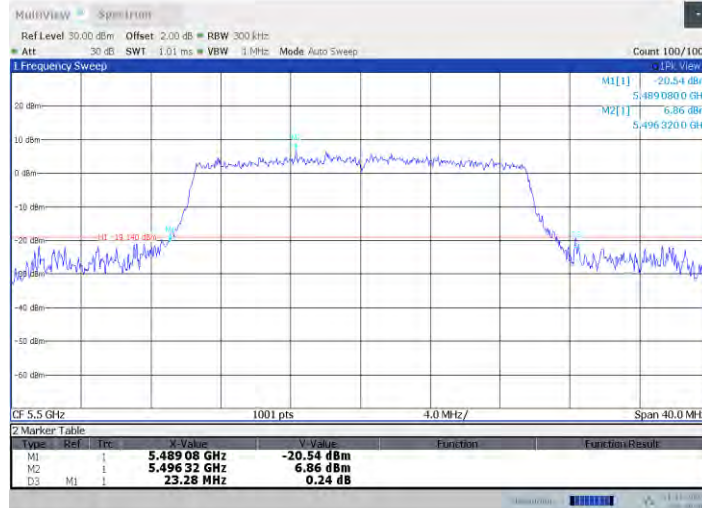
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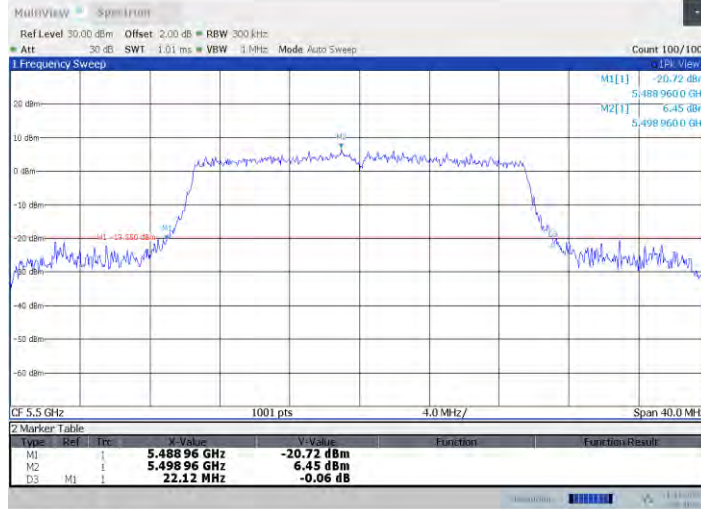


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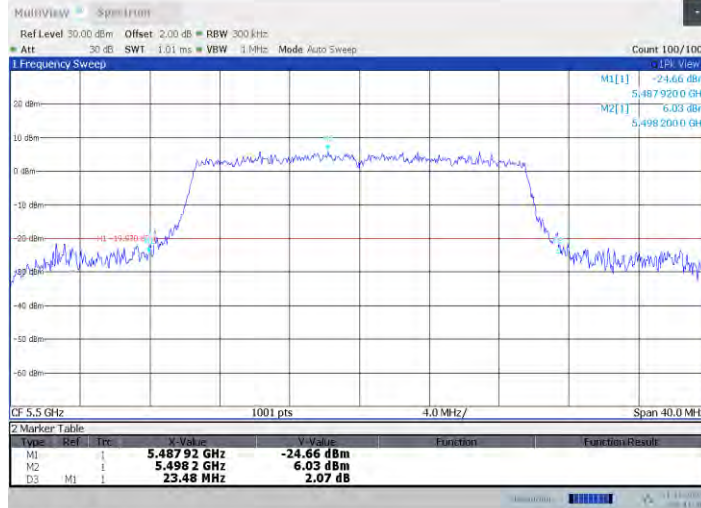
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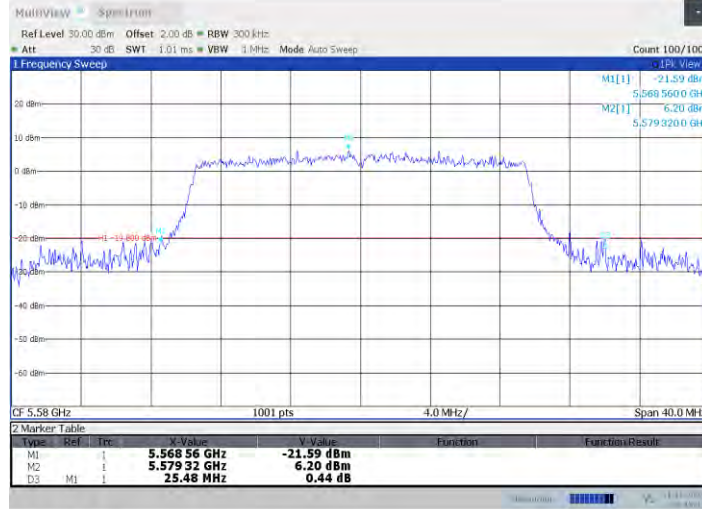


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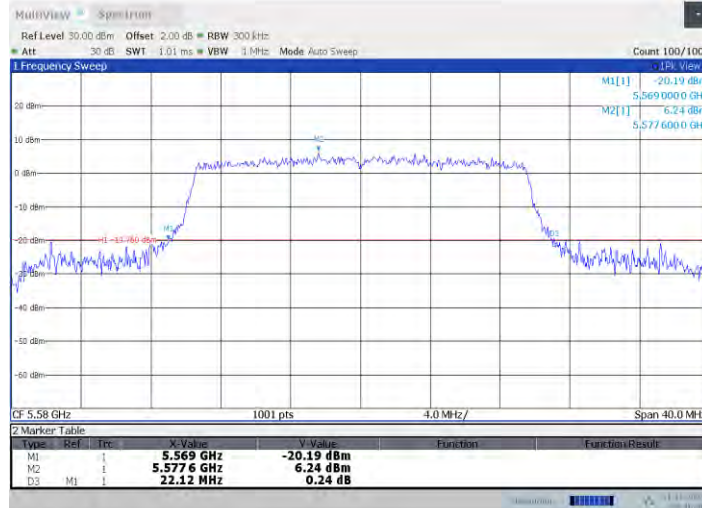
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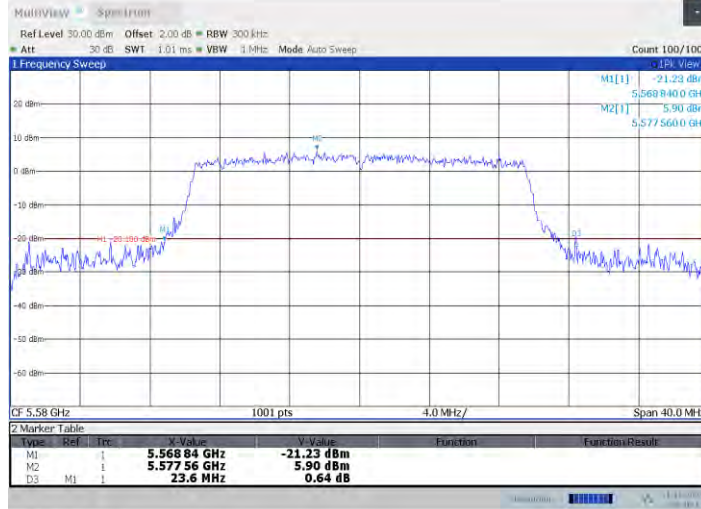


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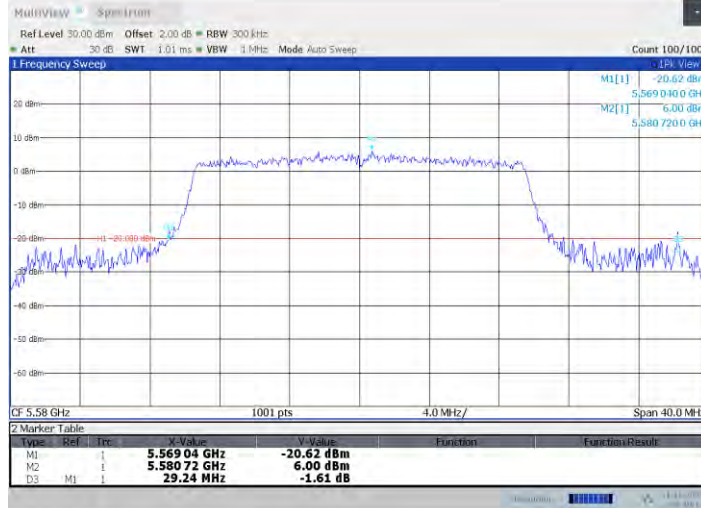
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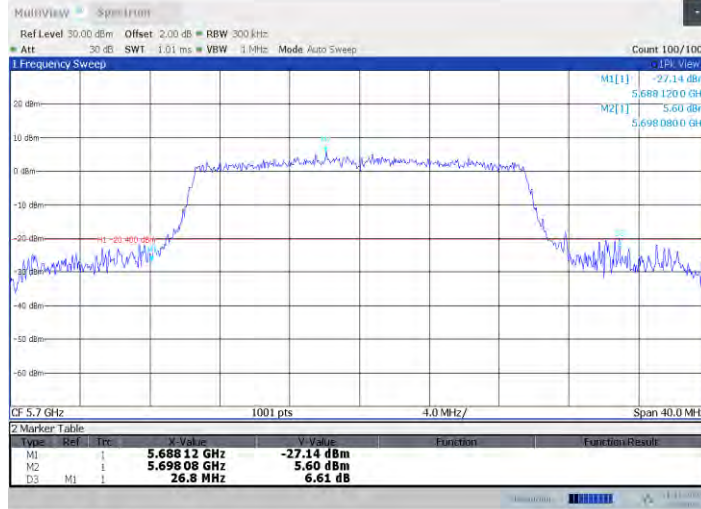
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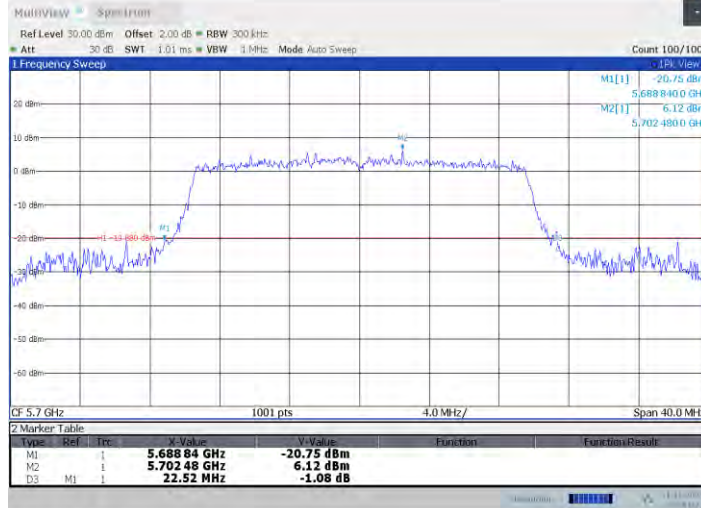


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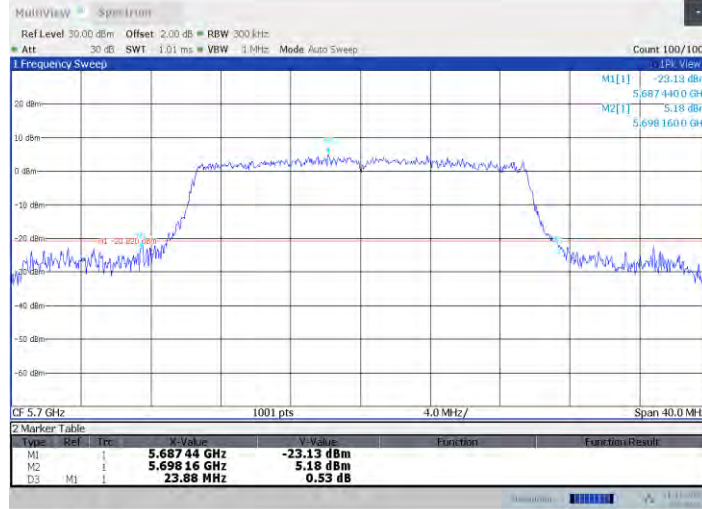


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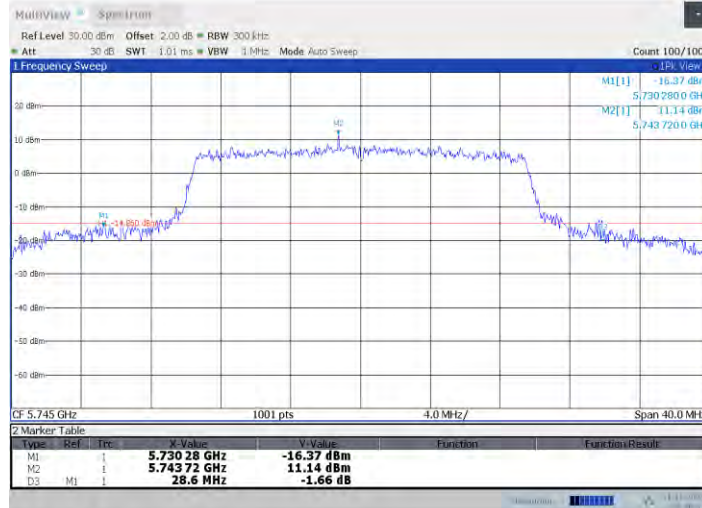
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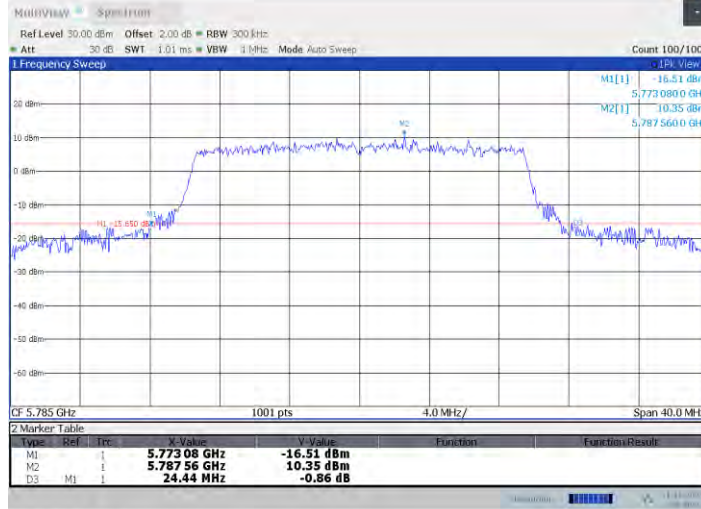
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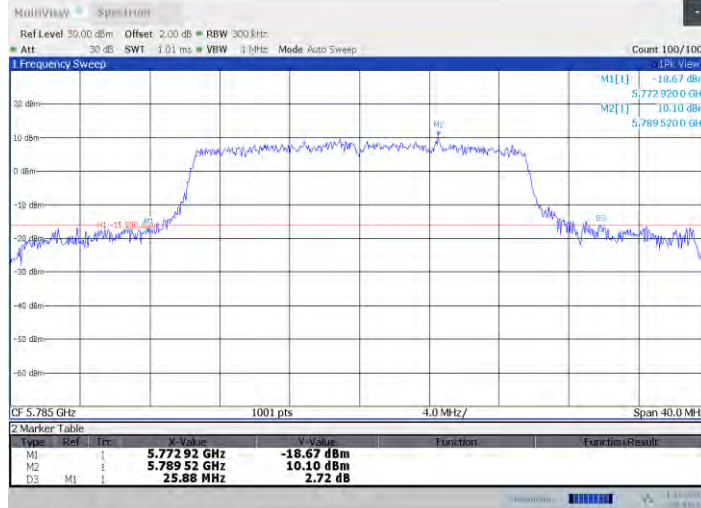
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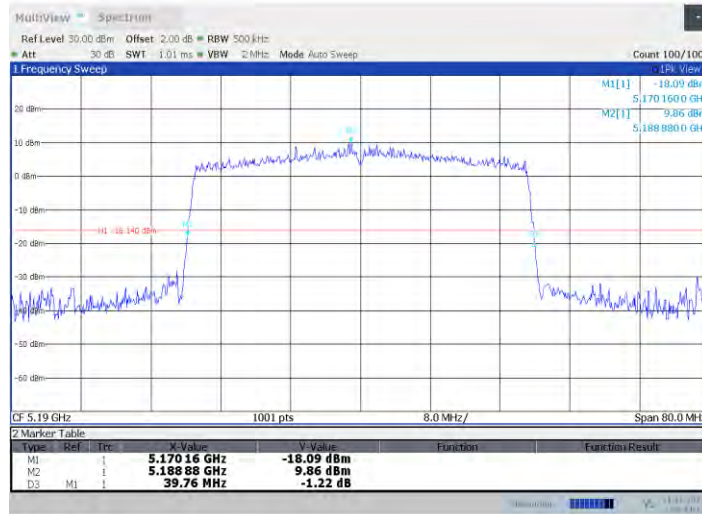
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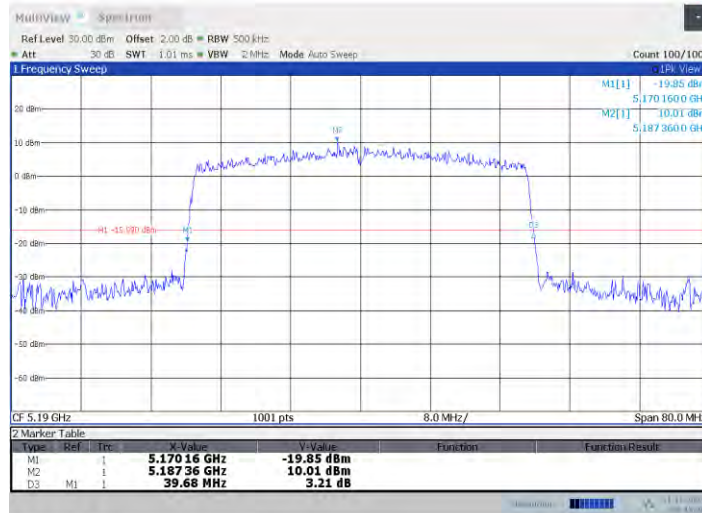


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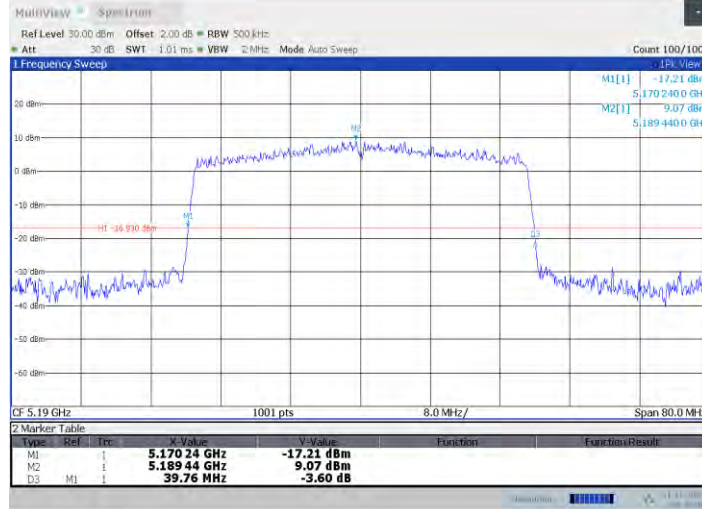


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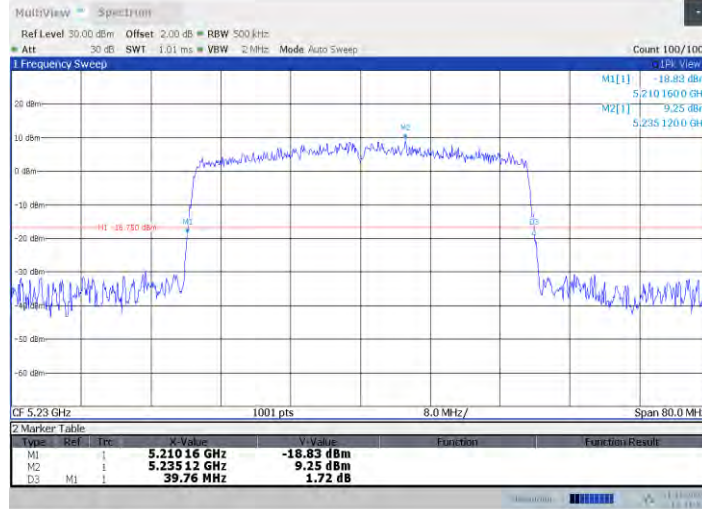


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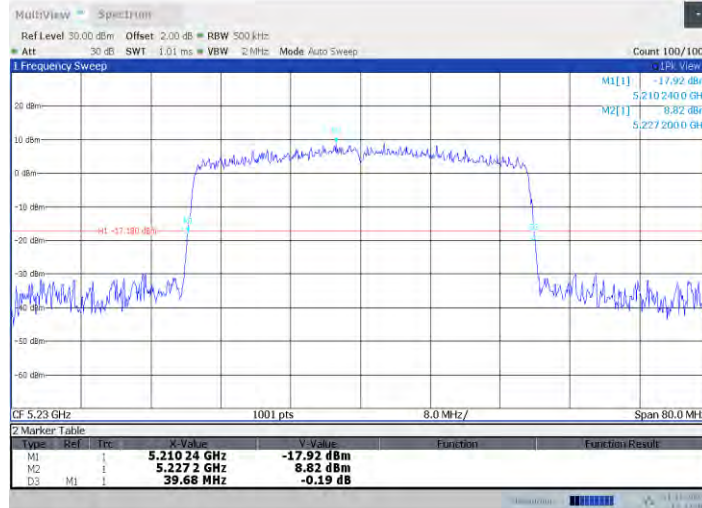
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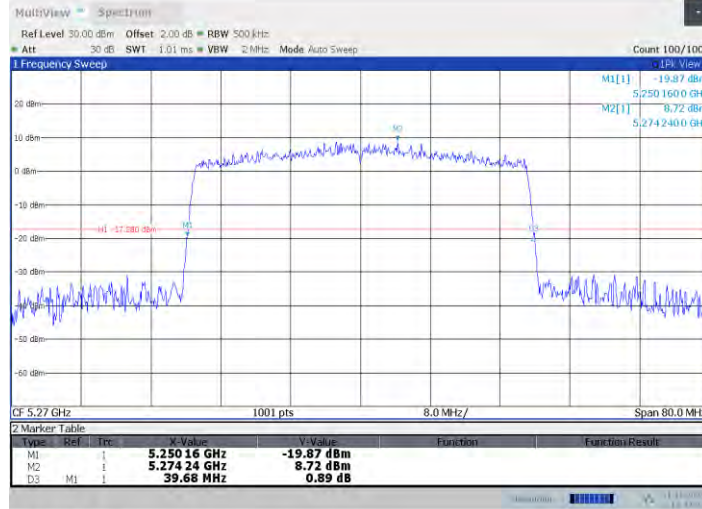
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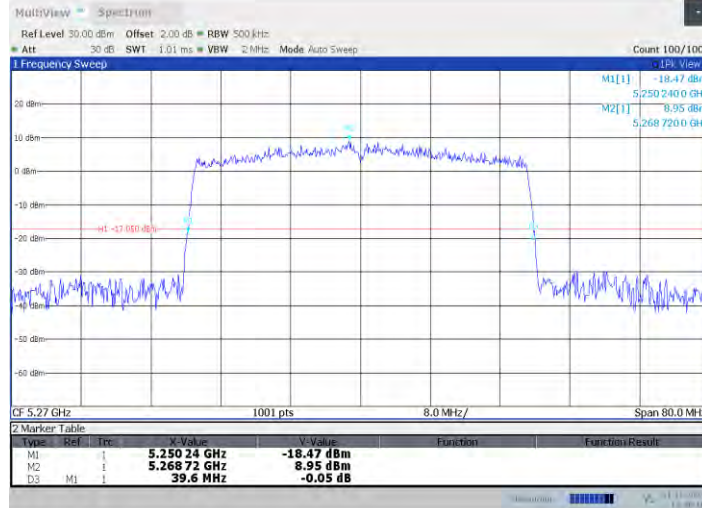
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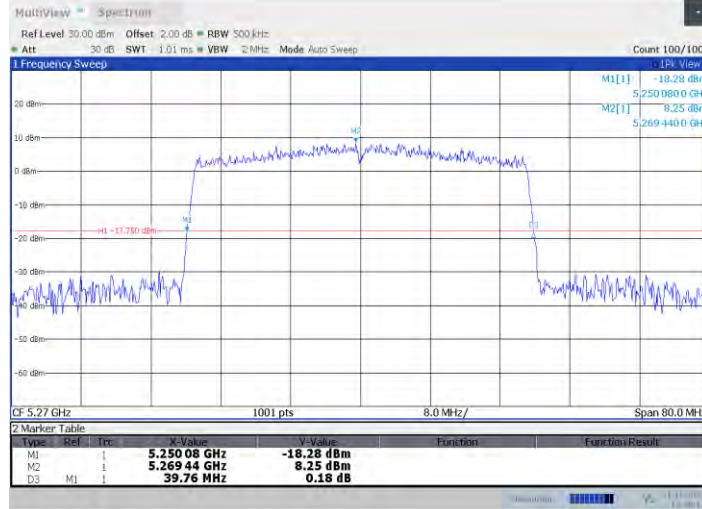


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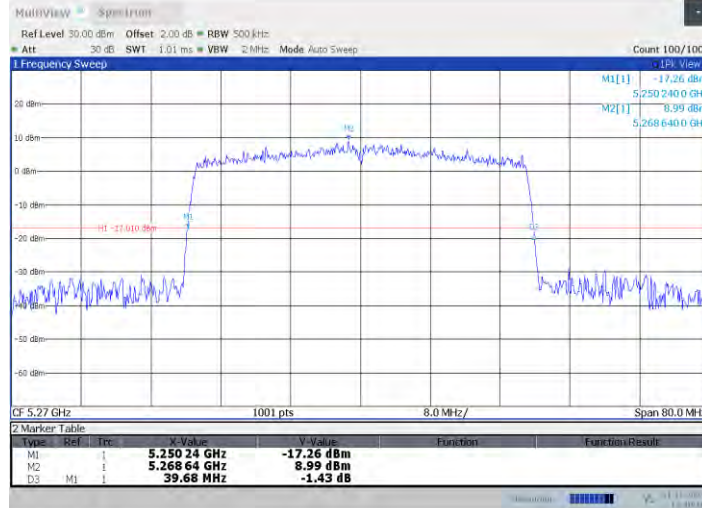
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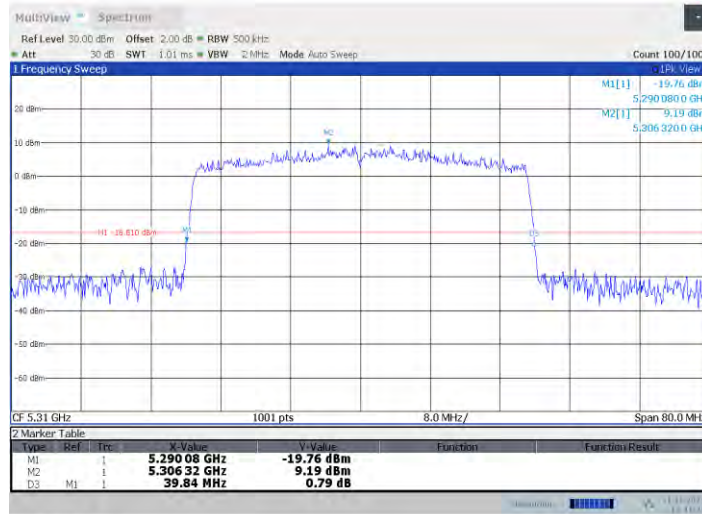


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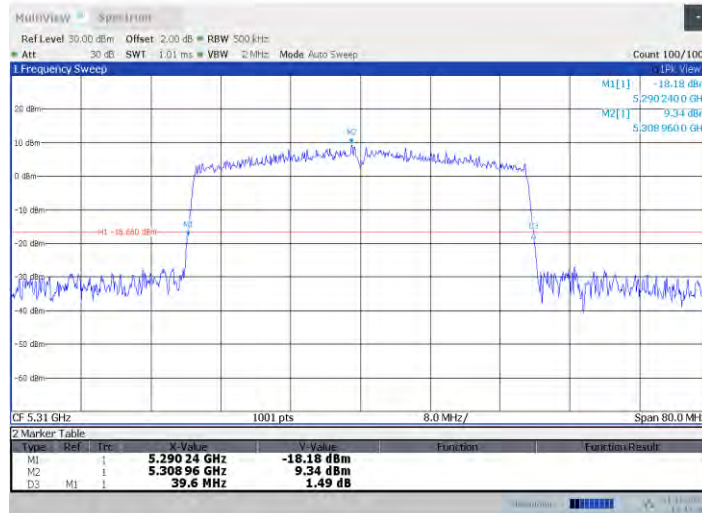
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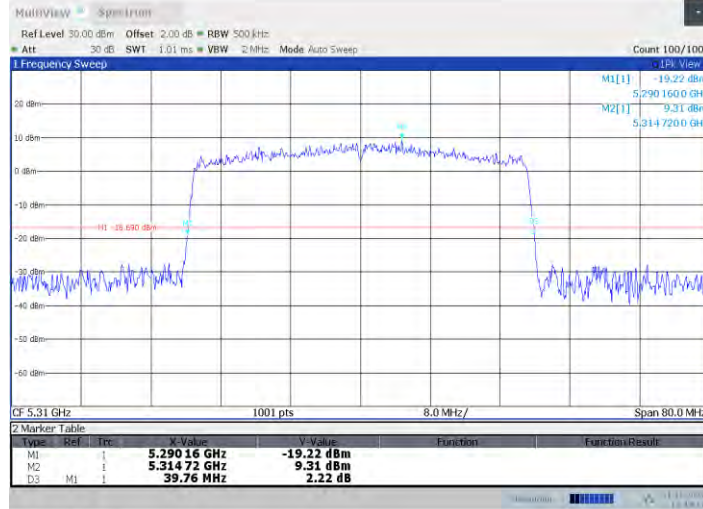


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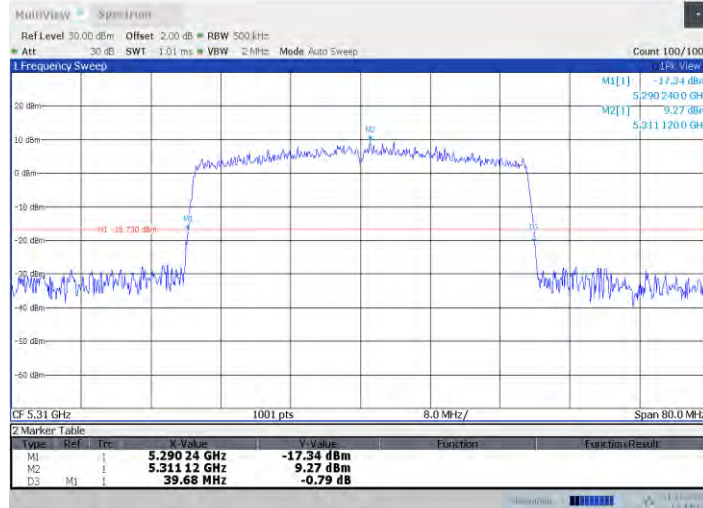
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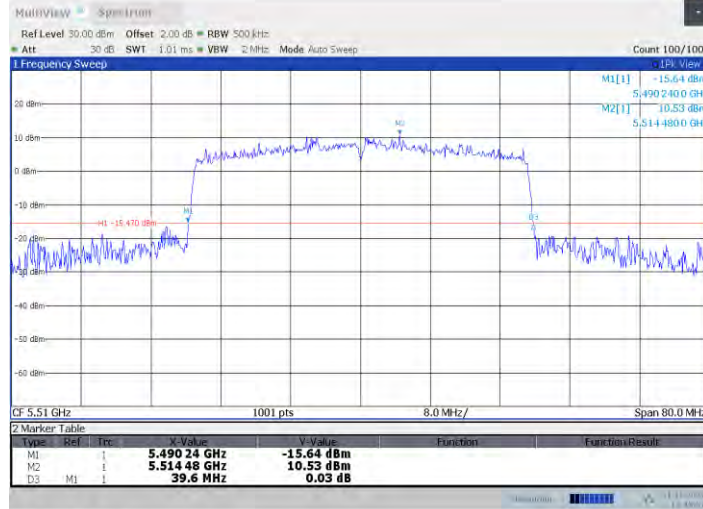
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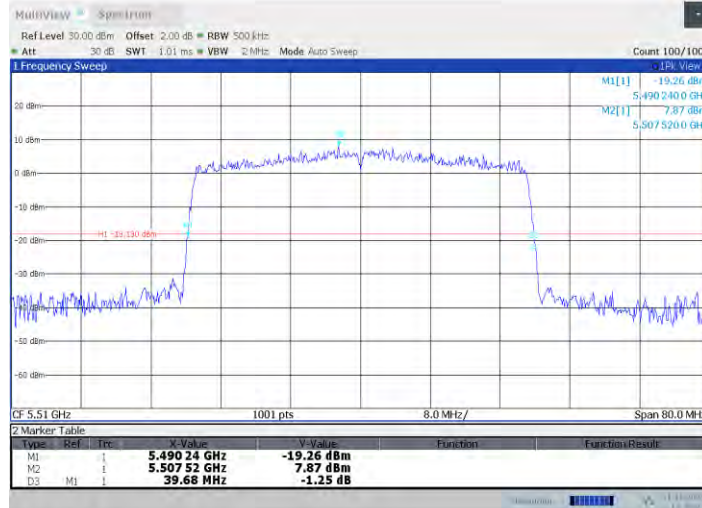
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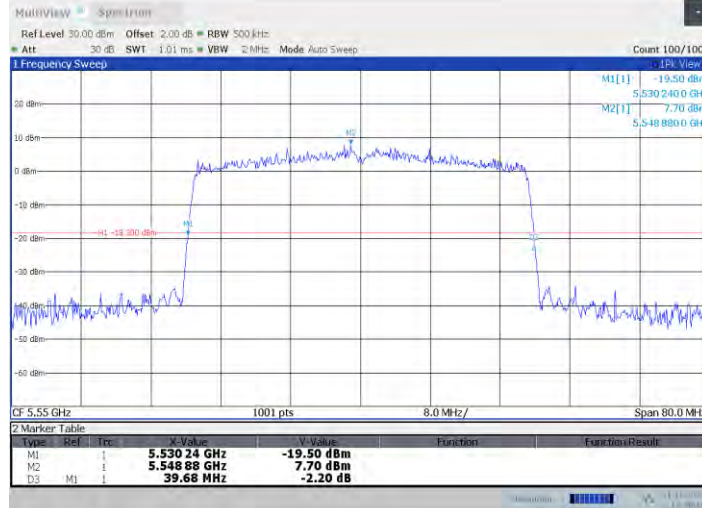
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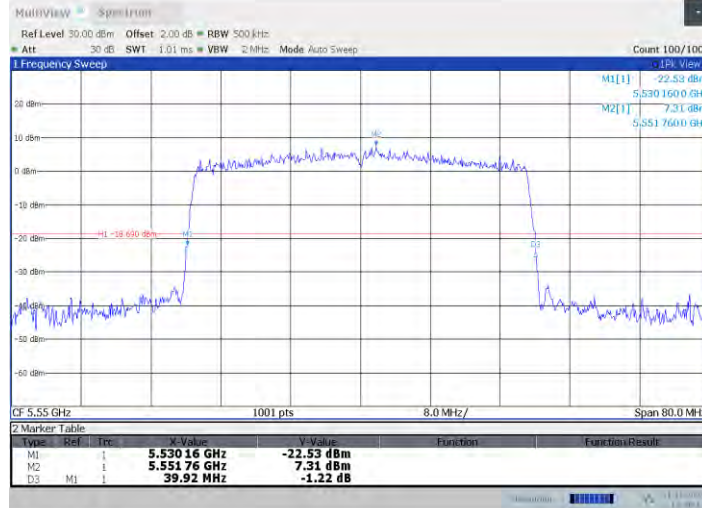
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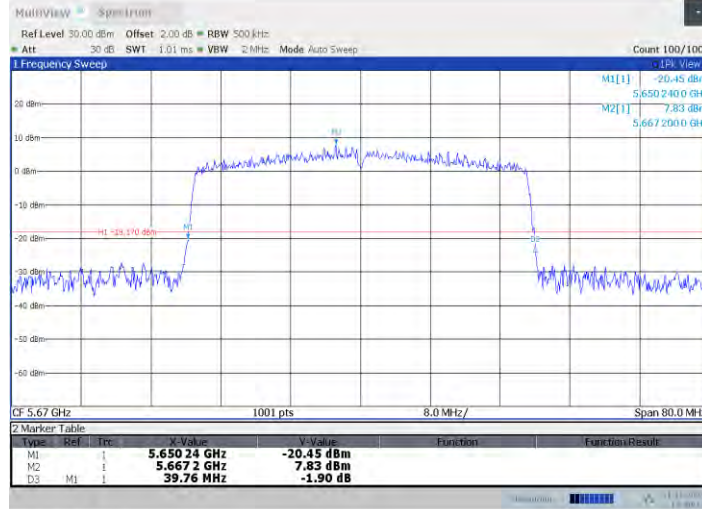


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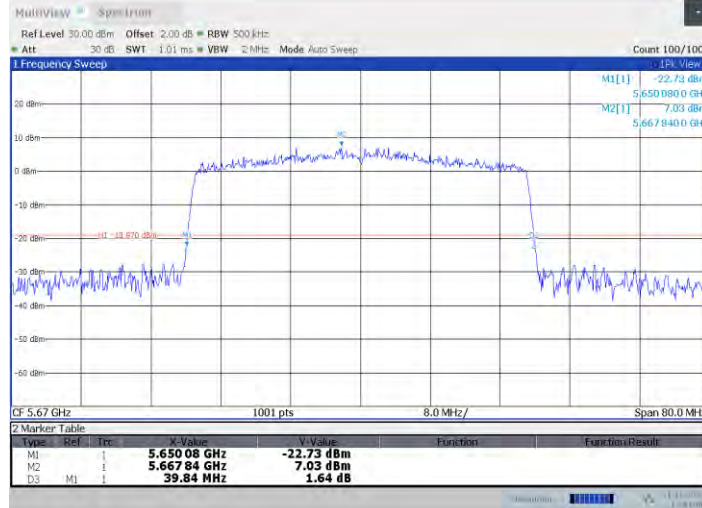
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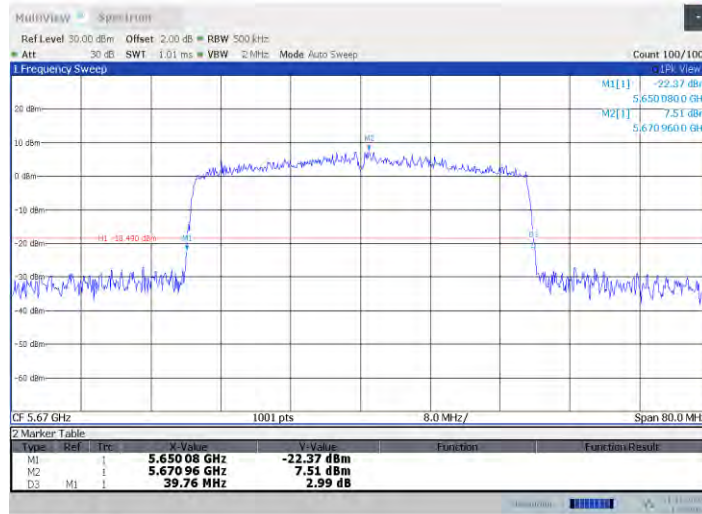


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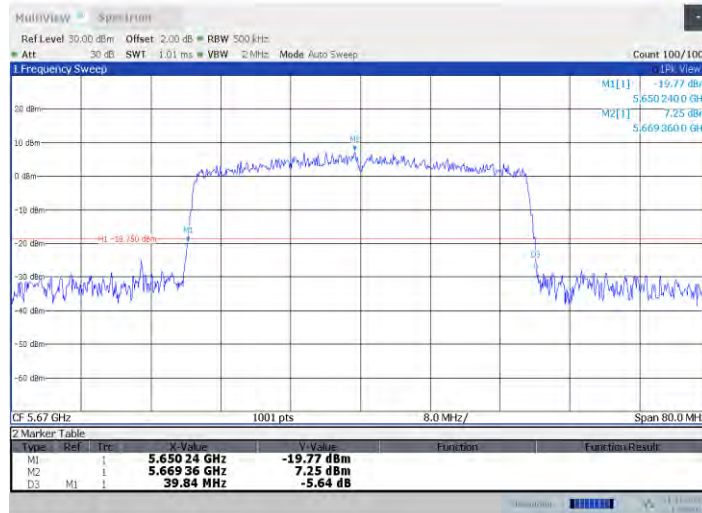
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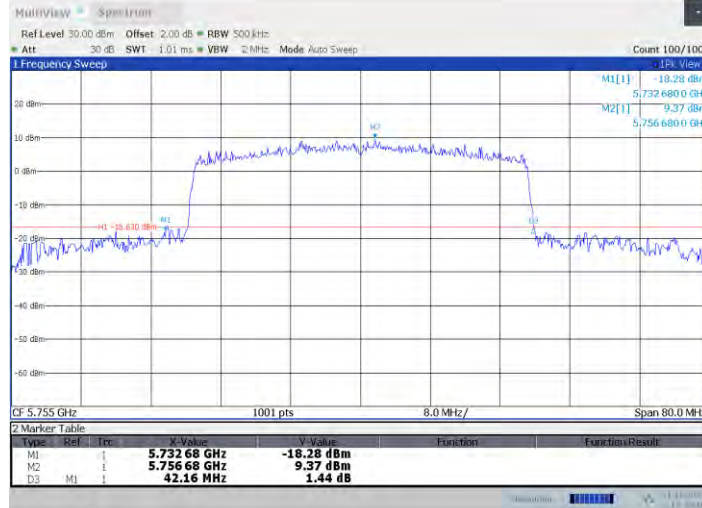
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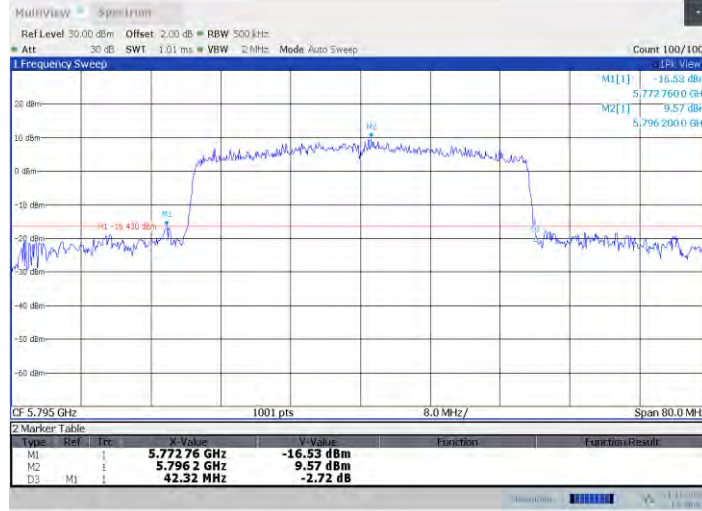
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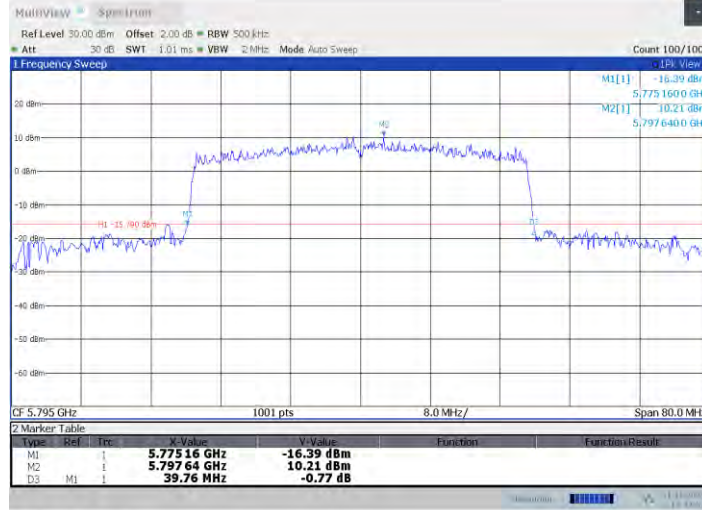


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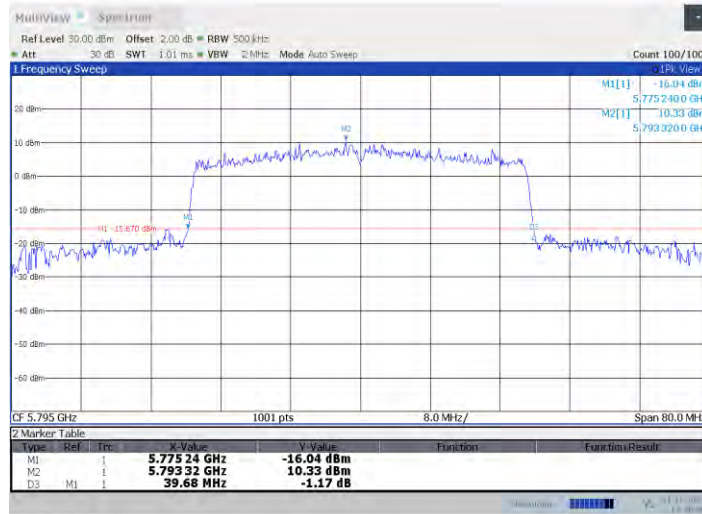


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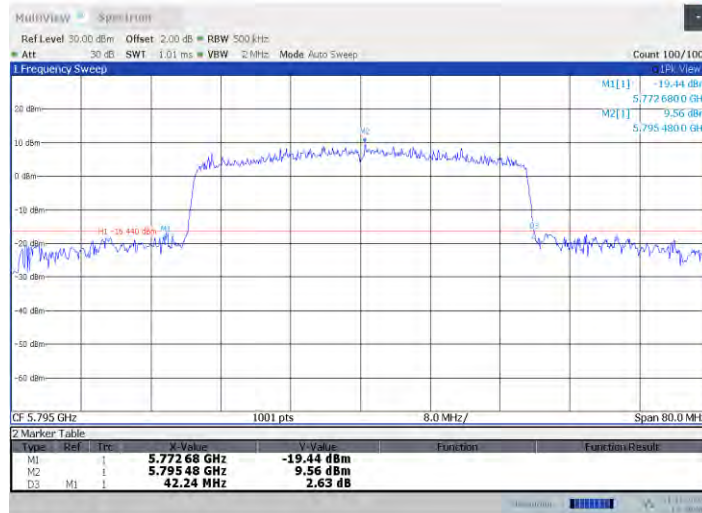
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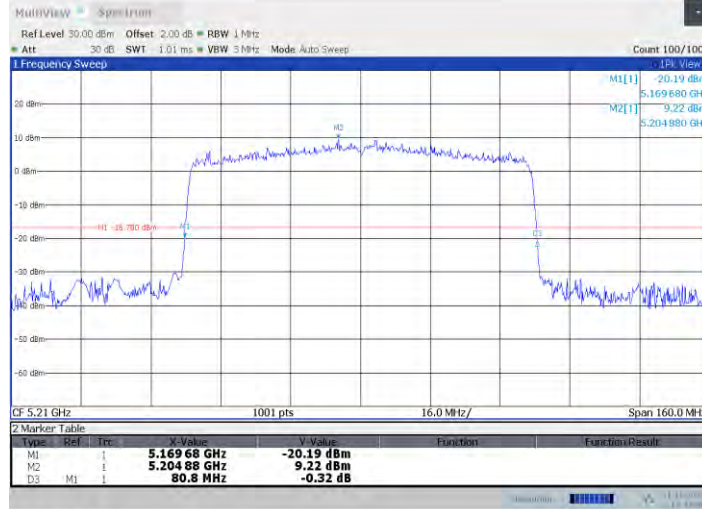


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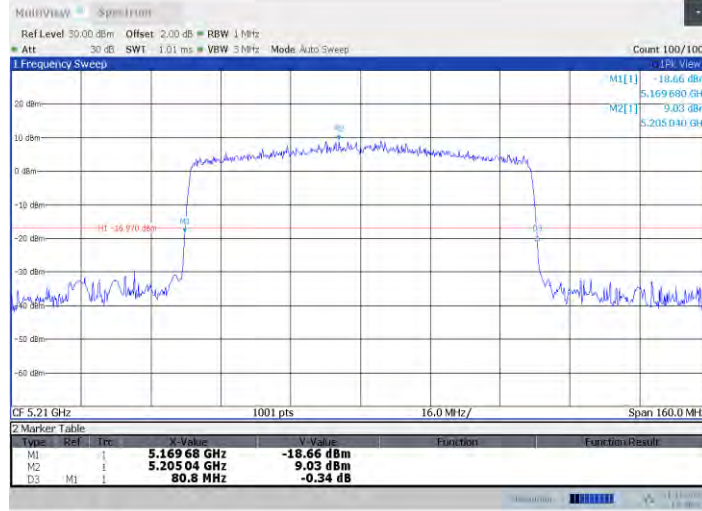


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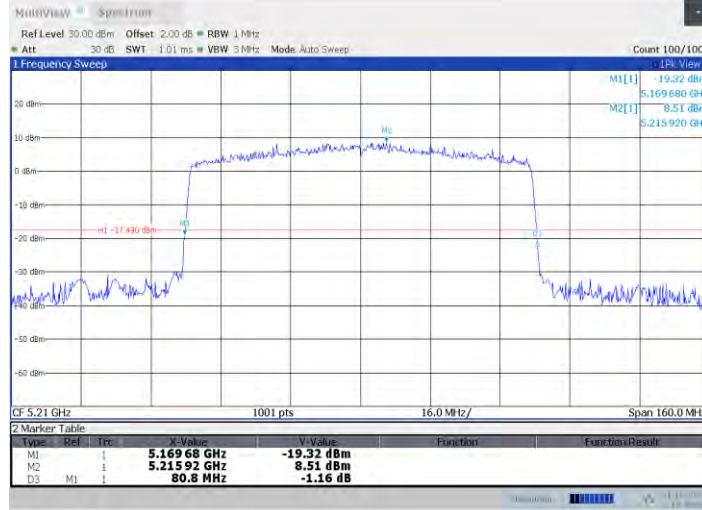
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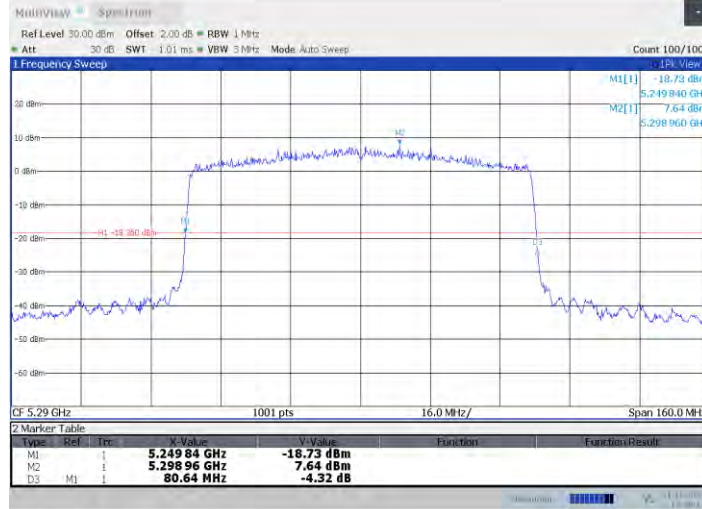
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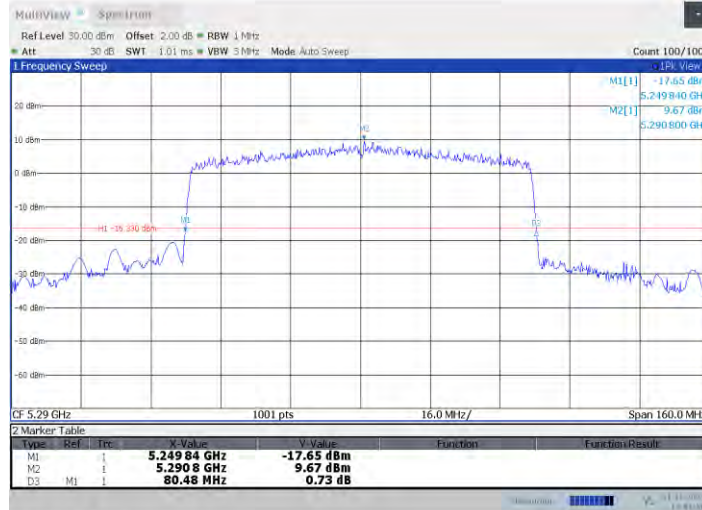
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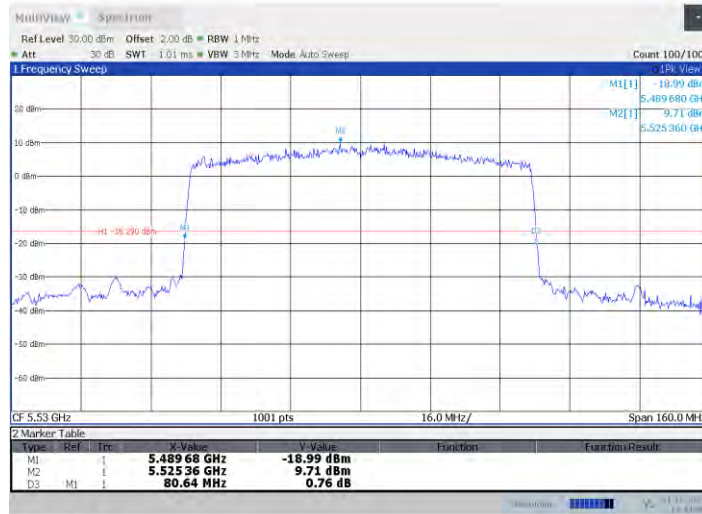


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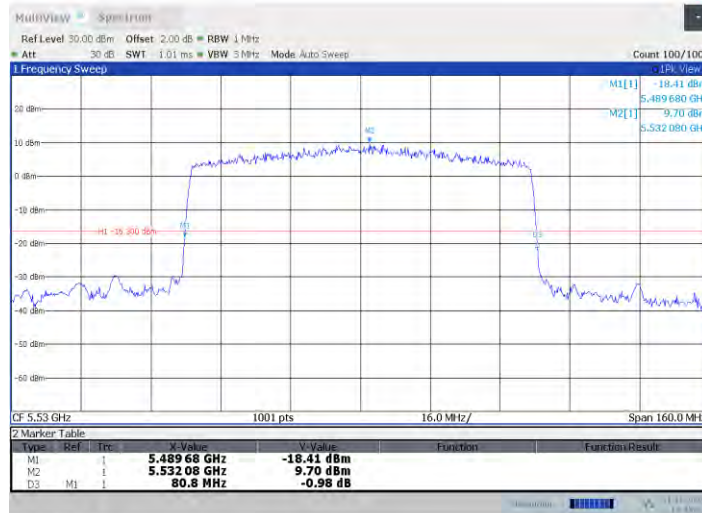
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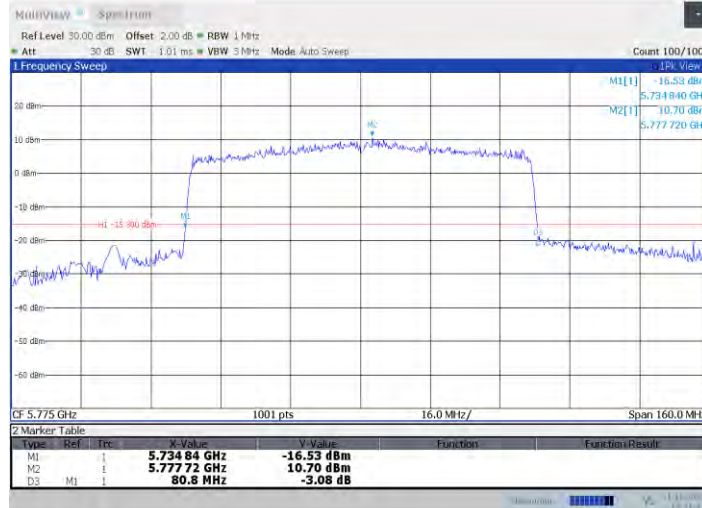
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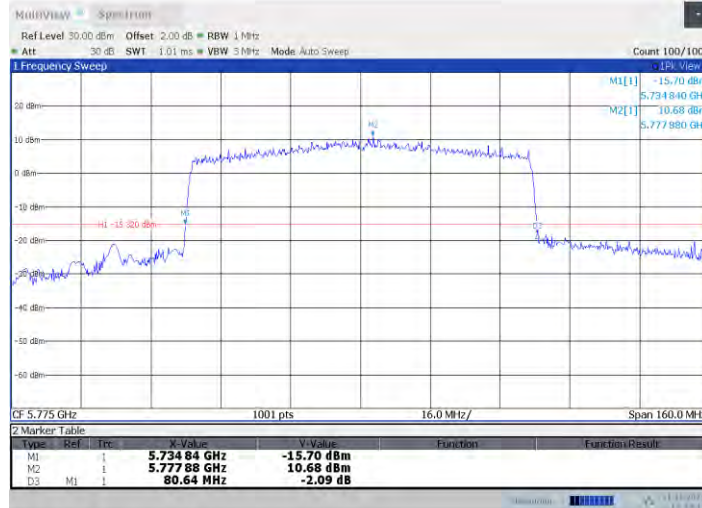
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11ax80MIMO Ant4 5775



15:23:43 11.11.2022



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**Occupied channel bandwidth  
 Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant4	5180	17.301	5171.3445	5188.6457	---	---
		5220	17.317	5211.3162	5228.6332	---	---
		5240	17.247	5231.4120	5248.6592	---	---
		5260	17.276	5251.3635	5268.6396	---	---
		5300	17.345	5291.3153	5308.6600	---	---
		5320	17.32	5311.3304	5328.6501	---	---
		5500	17.209	5491.3965	5508.6057	---	---
		5580	17.234	5571.4104	5588.6443	---	---
		5700	17.251	5691.3691	5708.6201	---	---
		5745	17.587	5736.1697	5753.7569	---	---
		5785	17.496	5776.2663	5793.7618	---	---
		5825	17.32	5816.3537	5833.6741	---	---
11ax20MIMO	Ant1	5180	19.281	5170.3307	5189.6119	---	---
	Ant2	5180	19.358	5170.2894	5189.6470	---	---
	Ant3	5180	19.355	5170.3387	5189.6933	---	---
	Ant4	5180	19.409	5170.3351	5189.7445	---	---
	Ant1	5220	19.242	5210.3816	5229.6233	---	---
	Ant2	5220	19.356	5210.3576	5229.7135	---	---
	Ant3	5220	19.344	5210.3625	5229.7064	---	---
	Ant4	5220	19.294	5210.3927	5229.6863	---	---
	Ant1	5240	18.965	5230.5619	5249.5269	---	---
	Ant2	5240	18.968	5230.5611	5249.5289	---	---
	Ant3	5240	19	5230.5501	5249.5499	---	---
	Ant4	5240	18.976	5230.5667	5249.5430	---	---
	Ant1	5260	19.294	5250.3401	5269.6337	---	---
	Ant2	5260	19.267	5250.3817	5269.6483	---	---
	Ant3	5260	19.35	5250.3604	5269.7104	---	---
	Ant4	5260	19.356	5250.2890	5269.6454	---	---
	Ant1	5300	19.348	5290.3199	5309.6677	---	---
	Ant2	5300	19.305	5290.3467	5309.6513	---	---
	Ant3	5300	19.306	5290.3371	5309.6430	---	---
	Ant4	5300	19.236	5290.3960	5309.6324	---	---
	Ant1	5320	19.281	5310.3773	5329.6585	---	---
	Ant2	5320	19.271	5310.3746	5329.6461	---	---
	Ant3	5320	19.236	5310.3809	5329.6173	---	---
	Ant4	5320	19.292	5310.3701	5329.6621	---	---
	Ant1	5500	19.33	5490.3467	5509.6769	---	---
	Ant2	5500	19.274	5490.3974	5509.6710	---	---
	Ant3	5500	19.27	5490.3994	5509.6692	---	---
	Ant4	5500	19.247	5490.3757	5509.6228	---	---
	Ant1	5580	19.267	5570.3997	5589.6665	---	---
	Ant2	5580	19.246	5570.4115	5589.6572	---	---
	Ant3	5580	19.272	5570.4267	5589.6983	---	---
	Ant4	5580	19.277	5570.3932	5589.6704	---	---
	Ant1	5700	19.253	5690.4152	5709.6682	---	---
	Ant2	5700	19.284	5690.4202	5709.7044	---	---
	Ant3	5700	19.326	5690.3386	5709.6645	---	---
	Ant4	5700	19.279	5690.4073	5709.6861	---	---
	Ant1	5745	19.527	5735.2647	5754.7916	---	---
	Ant2	5745	19.787	5735.1295	5754.9162	---	---



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	Ant3	5745	19.472	5735.2718	5754.7437	---	---
	Ant4	5745	19.612	5735.2531	5754.8656	---	---
	Ant1	5785	19.463	5775.3315	5794.7944	---	---
	Ant2	5785	19.426	5775.3555	5794.7816	---	---
	Ant3	5785	19.418	5775.3378	5794.7560	---	---
	Ant4	5785	19.426	5775.3418	5794.7679	---	---
	Ant1	5825	19.41	5815.3308	5834.7410	---	---
	Ant2	5825	19.407	5815.3221	5834.7288	---	---
	Ant3	5825	19.459	5815.3355	5834.7941	---	---
	Ant4	5825	19.492	5815.3196	5834.8112	---	---
11ax40MIMO	Ant1	5190	37.67	5171.2443	5208.9145	---	---
	Ant2	5190	37.525	5171.3427	5208.8675	---	---
	Ant3	5190	37.616	5171.2832	5208.8996	---	---
	Ant4	5190	37.585	5171.3347	5208.9202	---	---
	Ant1	5230	37.526	5211.3041	5248.8299	---	---
	Ant2	5230	37.661	5211.2676	5248.9289	---	---
	Ant3	5230	37.627	5211.2621	5248.8891	---	---
	Ant4	5230	37.516	5211.3432	5248.8588	---	---
	Ant1	5270	37.566	5251.2546	5288.8205	---	---
	Ant2	5270	37.657	5251.2301	5288.8874	---	---
	Ant3	5270	37.641	5251.2586	5288.8996	---	---
	Ant4	5270	37.598	5251.2738	5288.8717	---	---
	Ant1	5310	37.613	5291.2599	5328.8725	---	---
	Ant2	5310	37.627	5291.2603	5328.8878	---	---
	Ant3	5310	37.616	5291.2614	5328.8773	---	---
	Ant4	5310	37.519	5291.3255	5328.8440	---	---
	Ant1	5510	37.577	5491.2646	5528.8413	---	---
	Ant2	5510	37.55	5491.3125	5528.8623	---	---
	Ant3	5510	37.585	5491.2737	5528.8588	---	---
	Ant4	5510	37.565	5491.3146	5528.8800	---	---
	Ant1	5550	37.596	5531.2755	5568.8717	---	---
	Ant2	5550	37.629	5531.2427	5568.8714	---	---
	Ant3	5550	37.587	5531.3024	5568.8891	---	---
	Ant4	5550	37.62	5531.2787	5568.8987	---	---
	Ant1	5670	37.62	5651.2540	5688.8742	---	---
	Ant2	5670	37.611	5651.2536	5688.8647	---	---
	Ant3	5670	37.571	5651.3239	5688.8948	---	---
	Ant4	5670	37.601	5651.3042	5688.9050	---	---
	Ant1	5755	37.762	5736.1323	5773.8948	---	---
	Ant2	5755	37.845	5736.1043	5773.9493	---	---
	Ant3	5755	37.858	5736.1185	5773.9766	---	---
	Ant4	5755	37.82	5736.1520	5773.9721	---	---
Ant1	5795	37.833	5776.1352	5813.9686	---	---	
Ant2	5795	37.865	5776.1427	5814.0072	---	---	
Ant3	5795	37.869	5776.1349	5814.0035	---	---	
Ant4	5795	37.784	5776.1981	5813.9820	---	---	
11ax80MIMO	Ant1	5210	76.632	5171.8082	5248.4400	---	---
	Ant2	5210	76.775	5171.6385	5248.4135	---	---
	Ant3	5210	76.997	5171.6123	5248.6091	---	---
	Ant4	5210	76.811	5171.7021	5248.5133	---	---
	Ant1	5290	76.805	5251.7052	5328.5097	---	---
	Ant2	5290	76.812	5251.7141	5328.5262	---	---
	Ant3	5290	76.966	5251.6568	5328.6223	---	---
	Ant4	5290	76.828	5251.7232	5328.5516	---	---
	Ant1	5530	76.978	5491.5866	5568.5646	---	---
	Ant2	5530	76.881	5491.6349	5568.5159	---	---



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Report No.: SEWM2209000178RG04  
 Rev.: 01  
 Page: 95 of 697

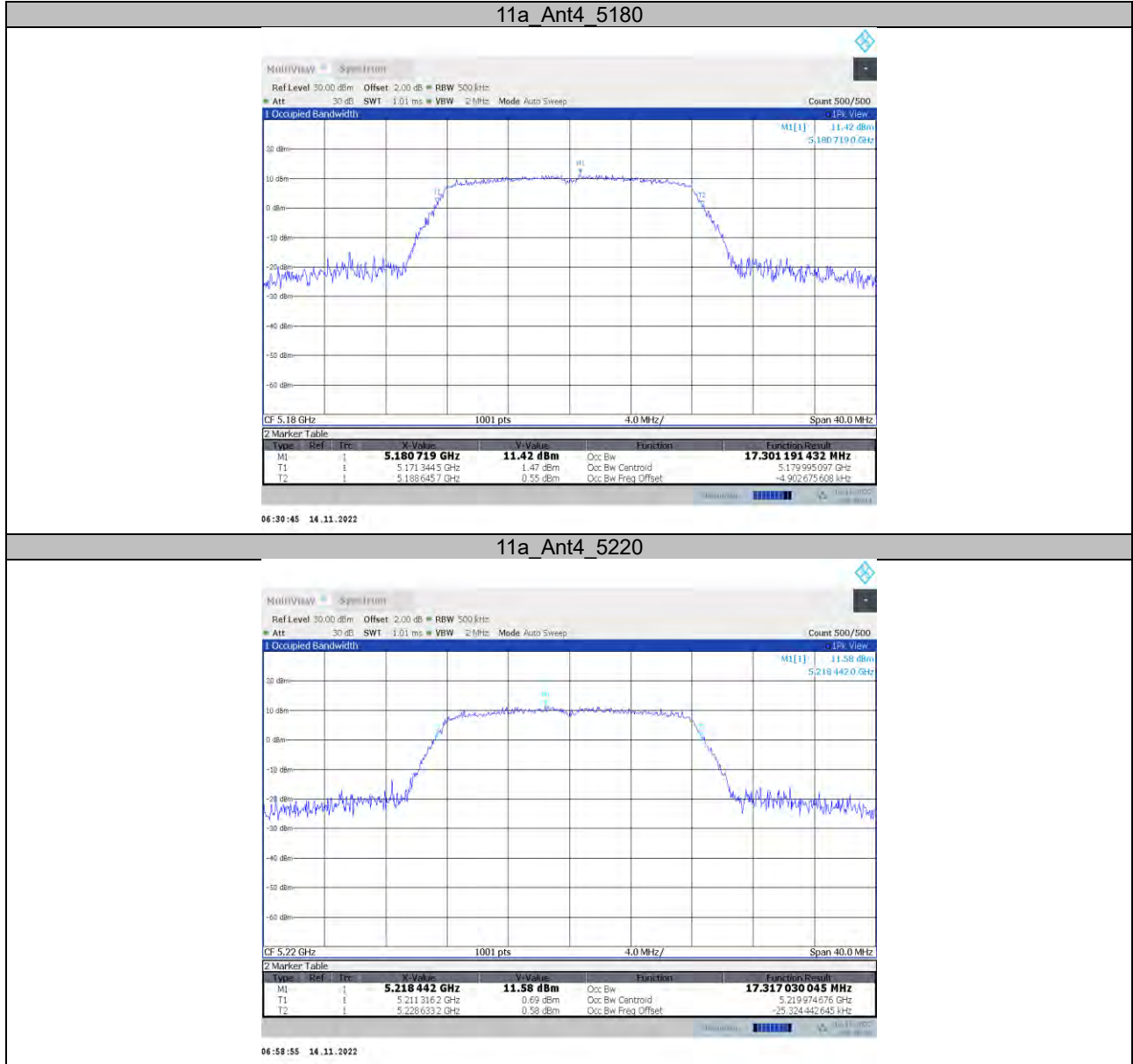
	Ant3	5530	76.836	5491.6283	5568.4645	---	---
	Ant4	5530	76.896	5491.6527	5568.5482	---	---
	Ant1	5610	76.818	5571.7065	5648.5248	---	---
	Ant2	5610	76.699	5571.7521	5648.4507	---	---
	Ant3	5610	76.769	5571.6747	5648.4441	---	---
	Ant4	5610	76.783	5571.6758	5648.4589	---	---
	Ant1	5775	77.035	5736.7854	5813.8203	---	---
	Ant2	5775	77.063	5736.7346	5813.7978	---	---
	Ant3	5775	77.068	5736.8030	5813.8712	---	---
	Ant4	5775	77.067	5736.8081	5813.8748	---	---

Remark: For 802.11n/ac/ax mode, the whole testing have assesd only 802.11ax HE20/HE40/HE80 by referring to the higher output power.



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Test Graphs

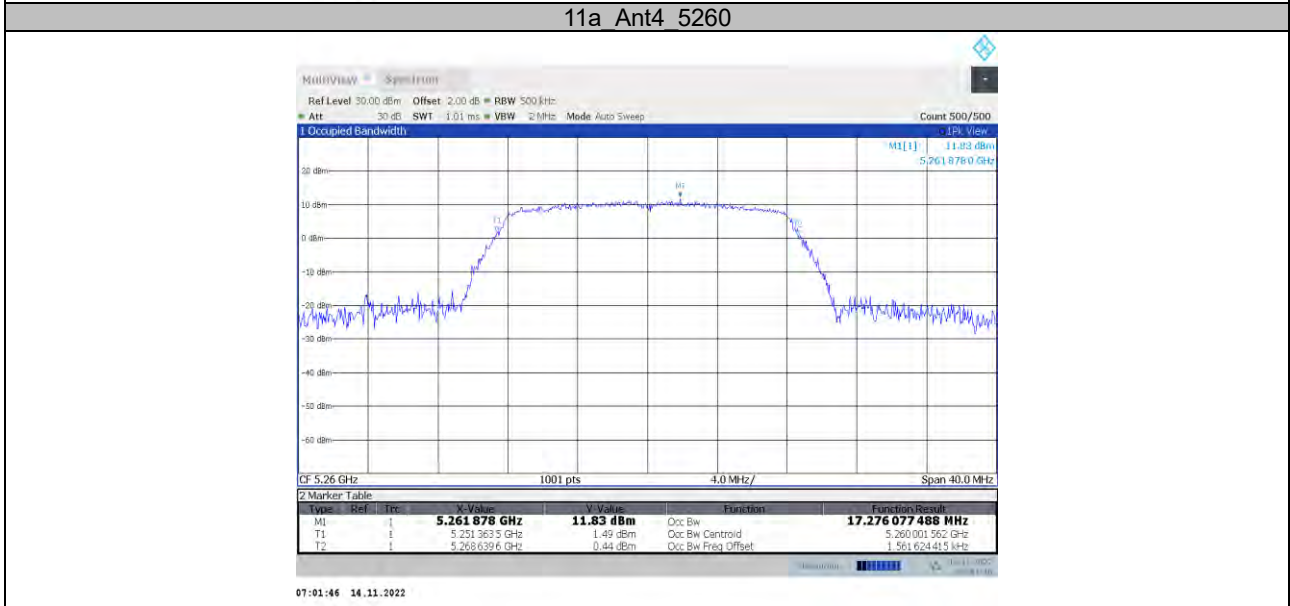
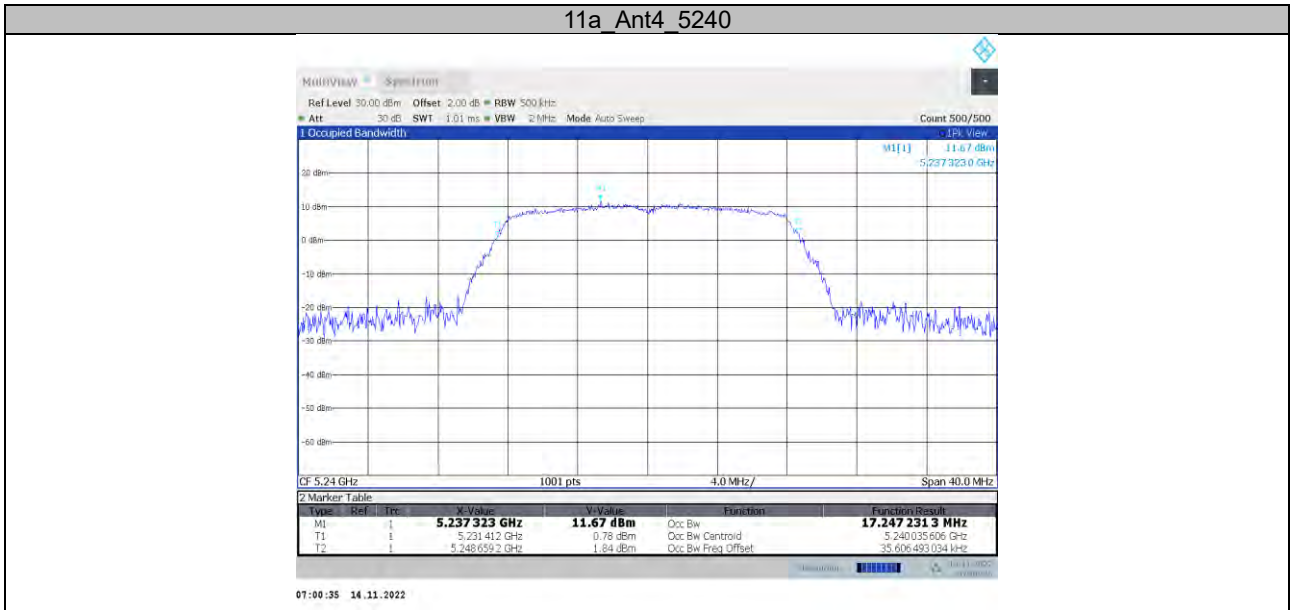


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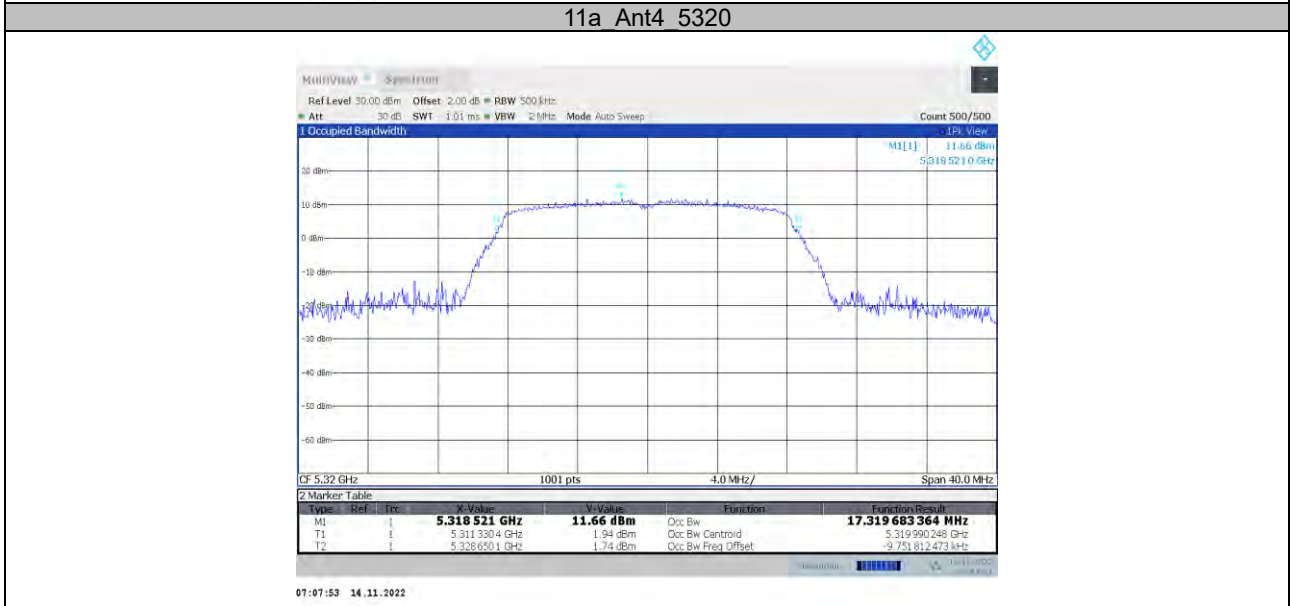
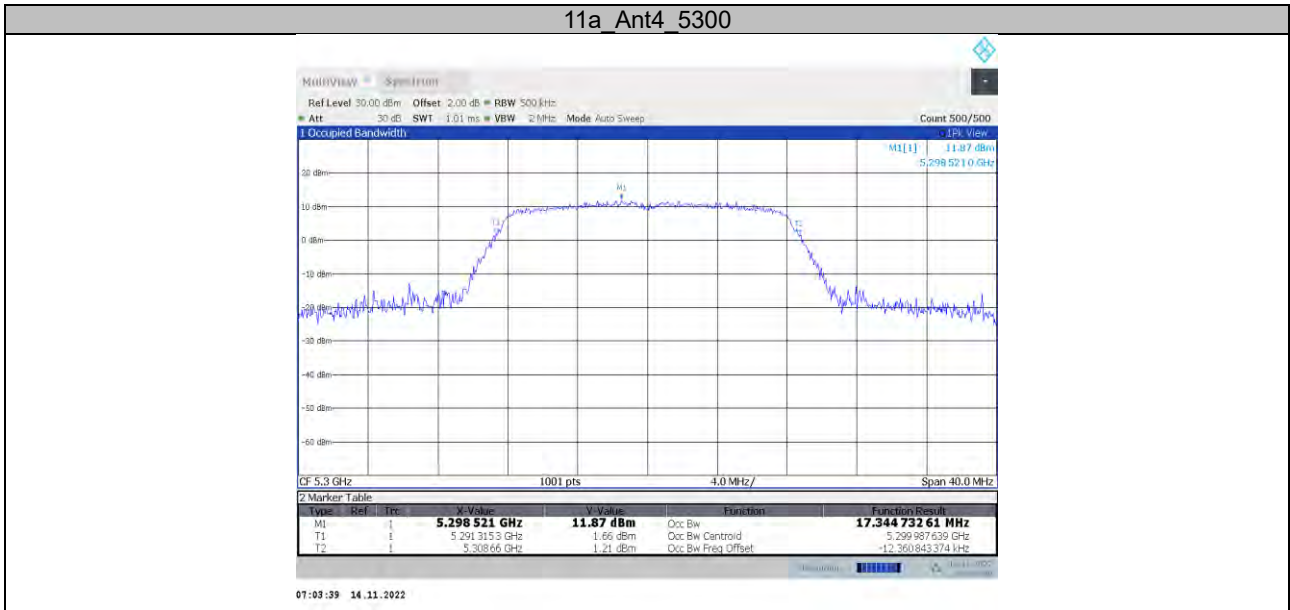




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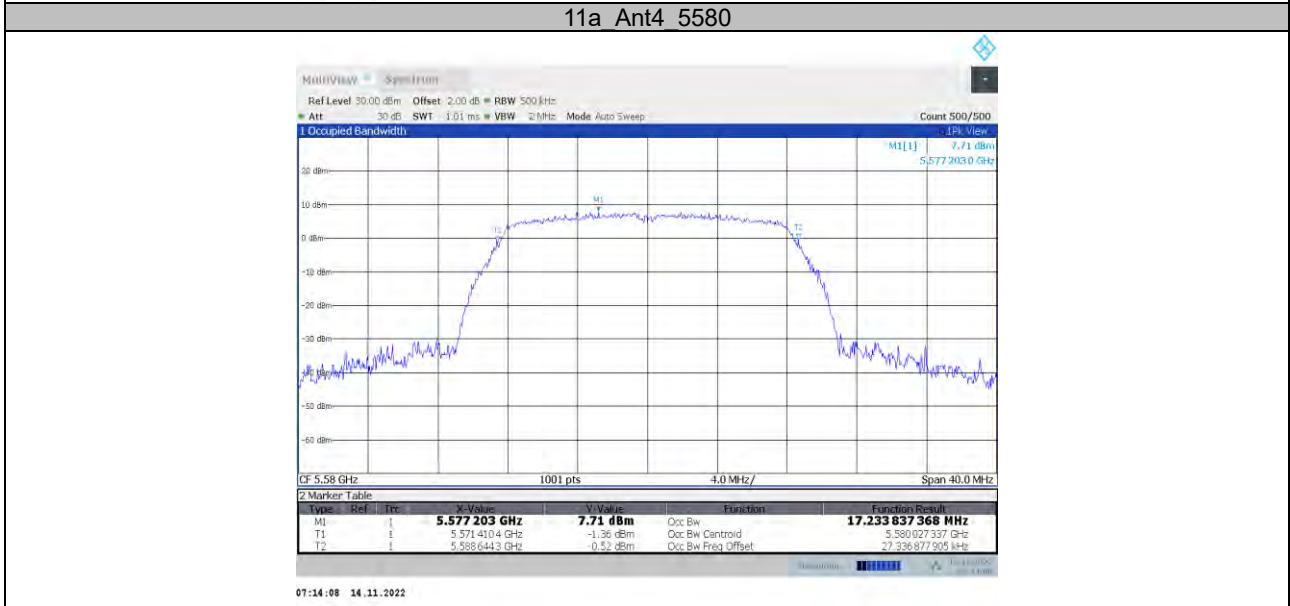
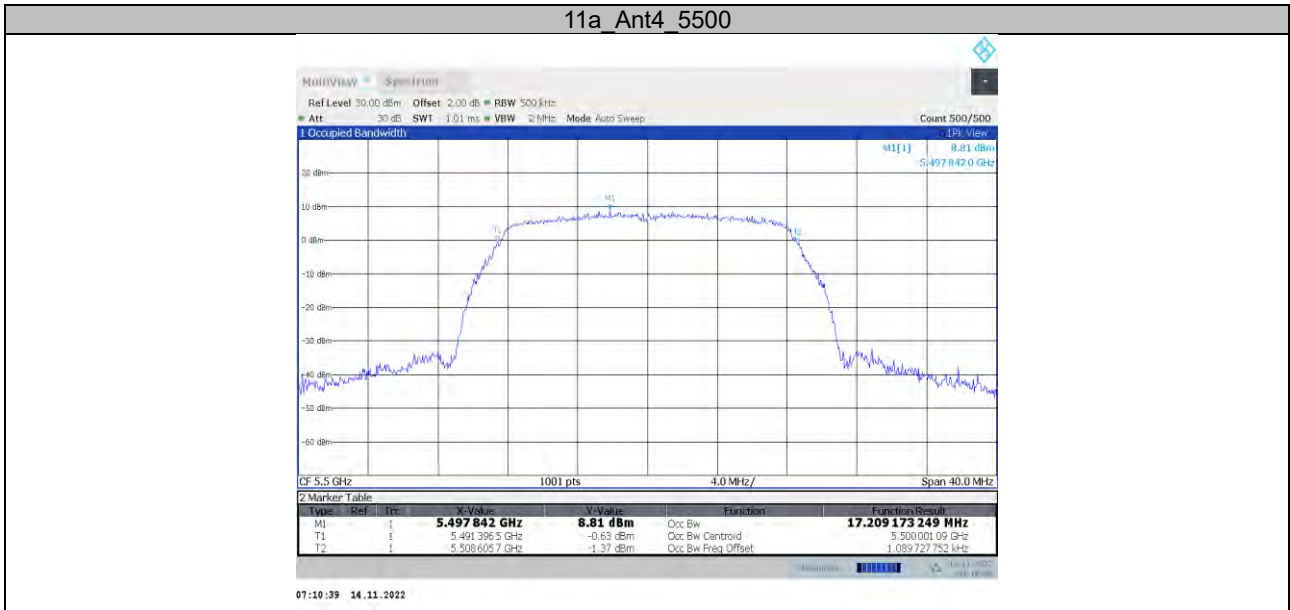
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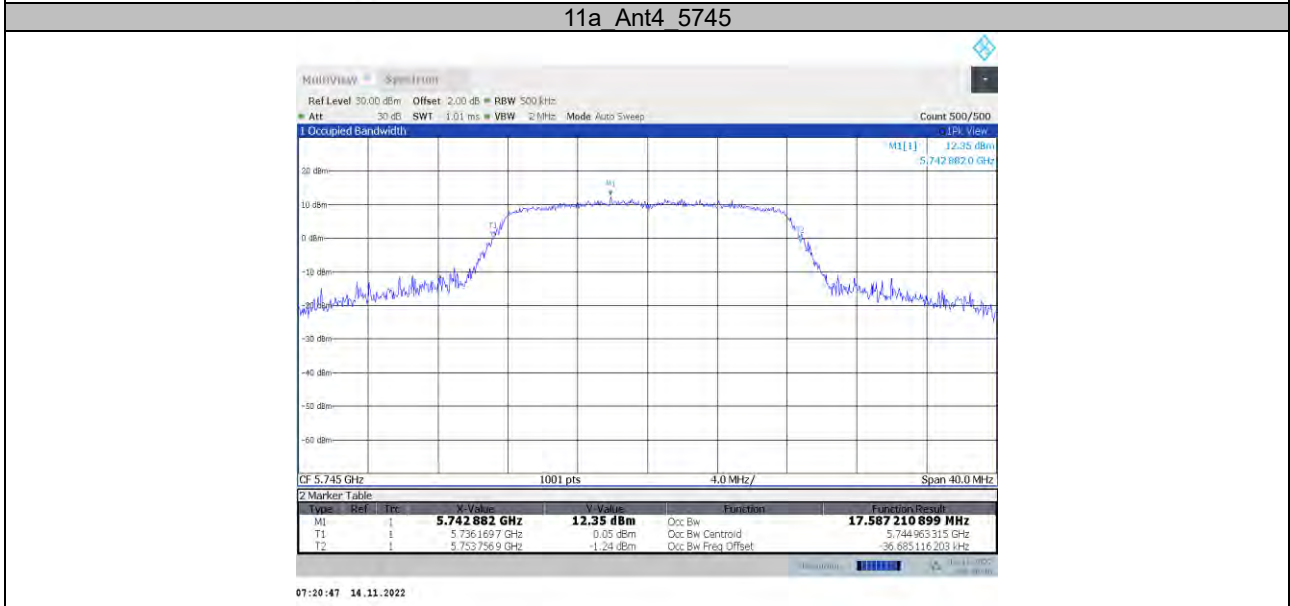
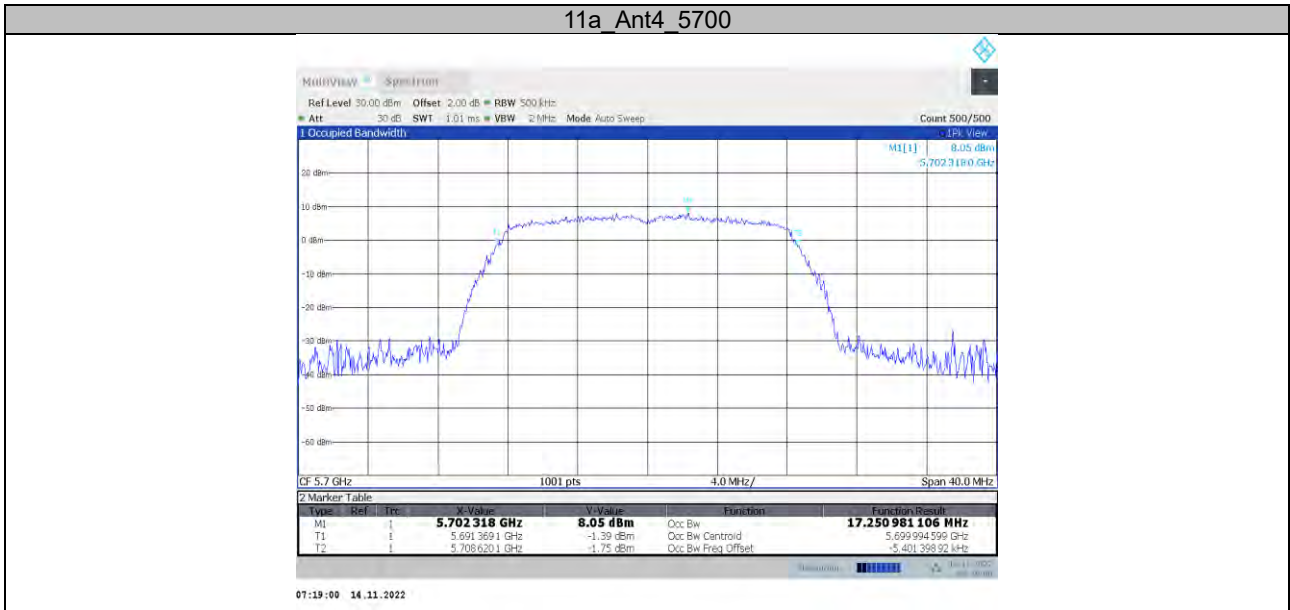
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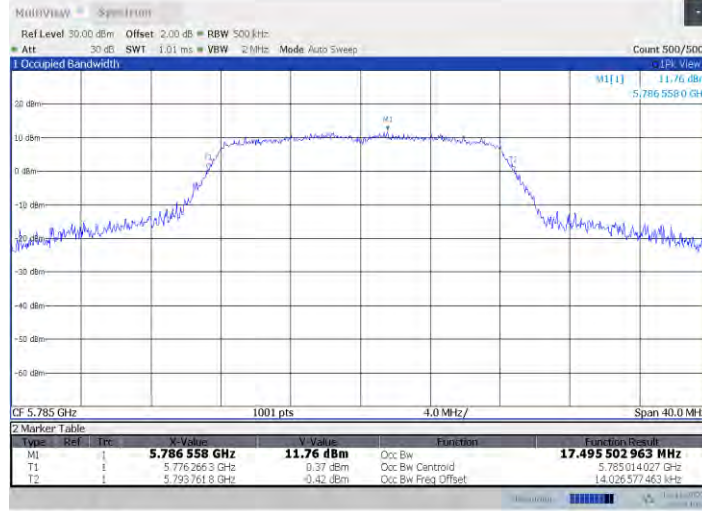


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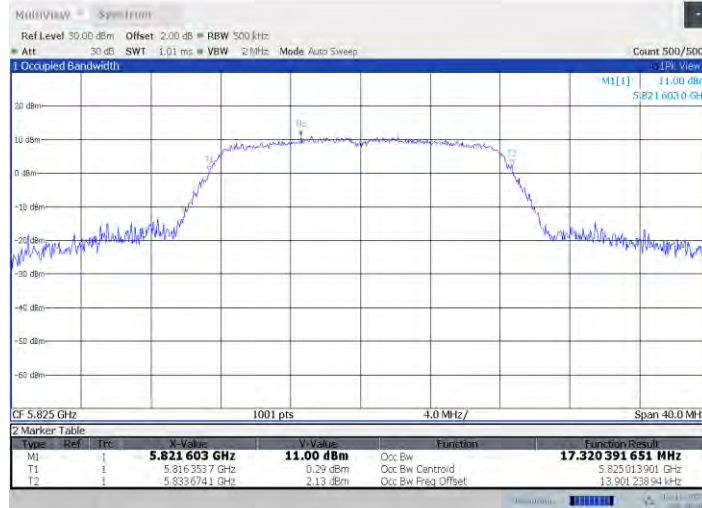
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11a Ant4 5785



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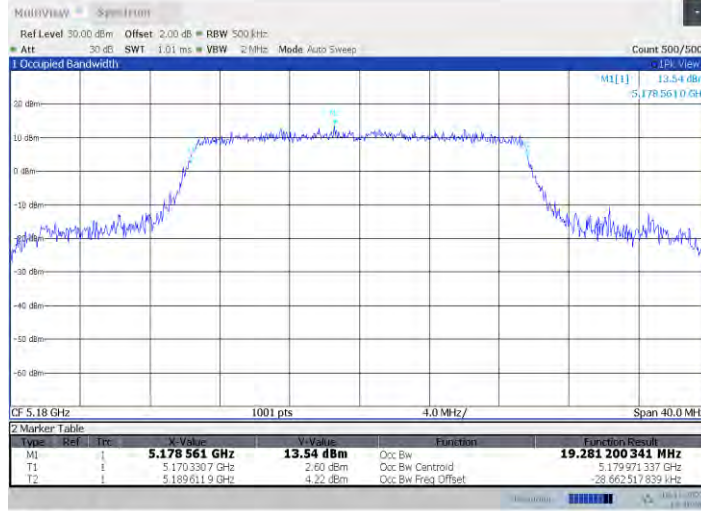
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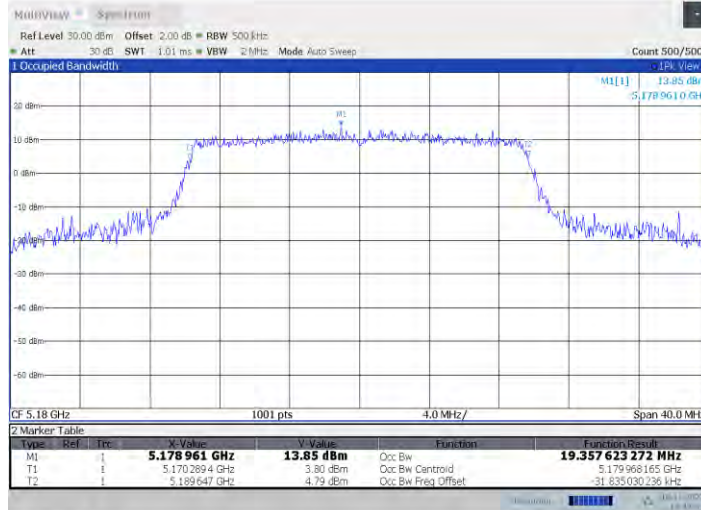
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14:40:58 10.11.2022

11ax20MIMO Ant2 5180

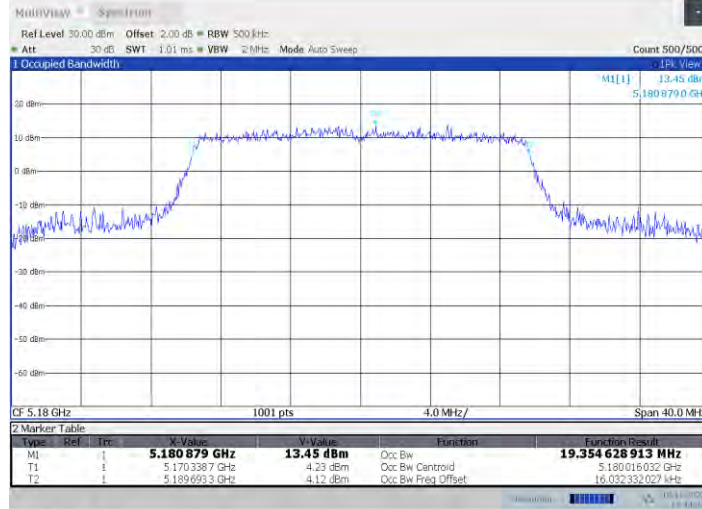


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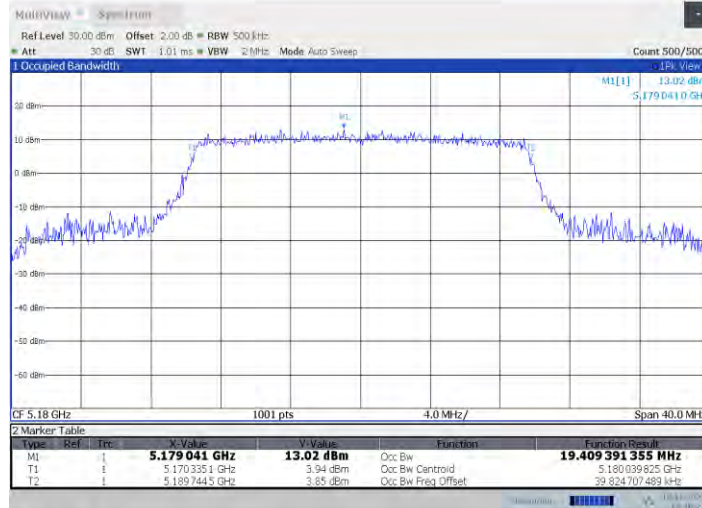
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14:44:25 10.11.2022

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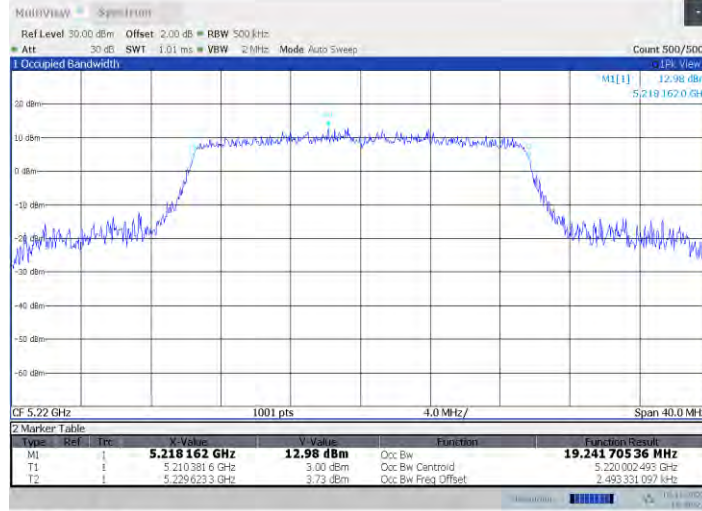
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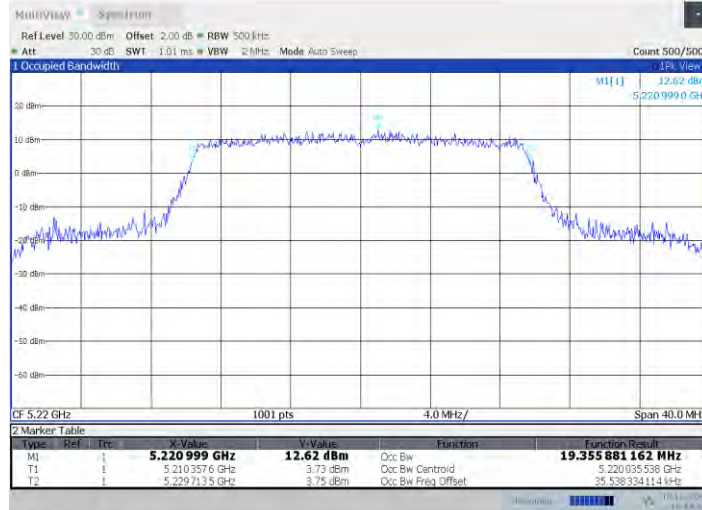
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16:30:23 10.11.2022

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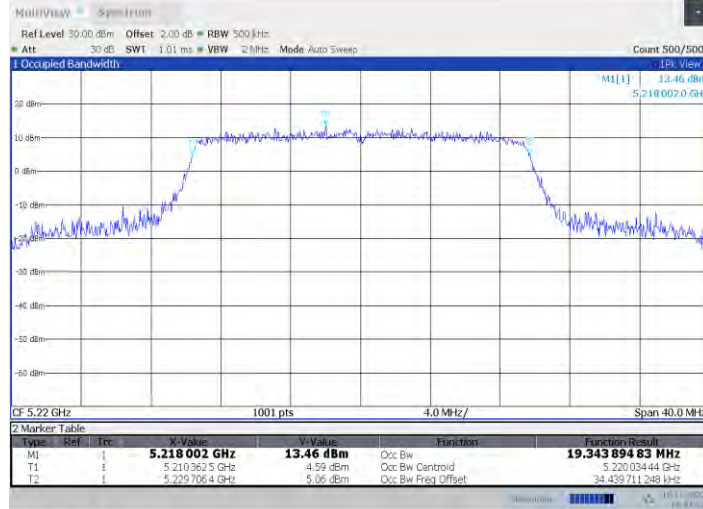


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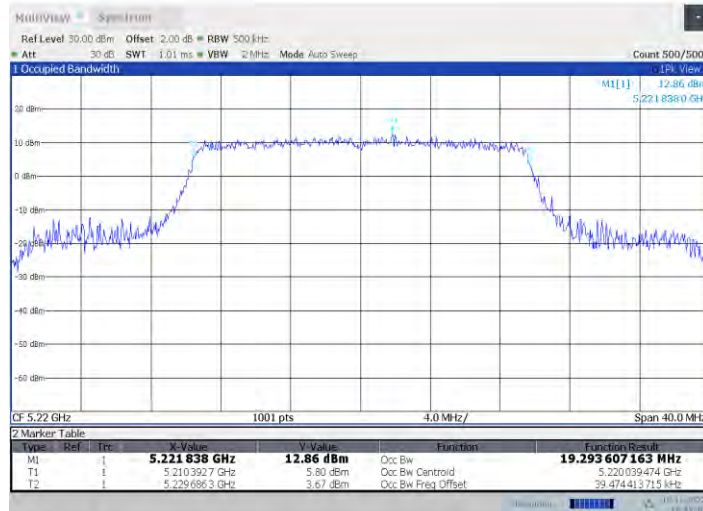


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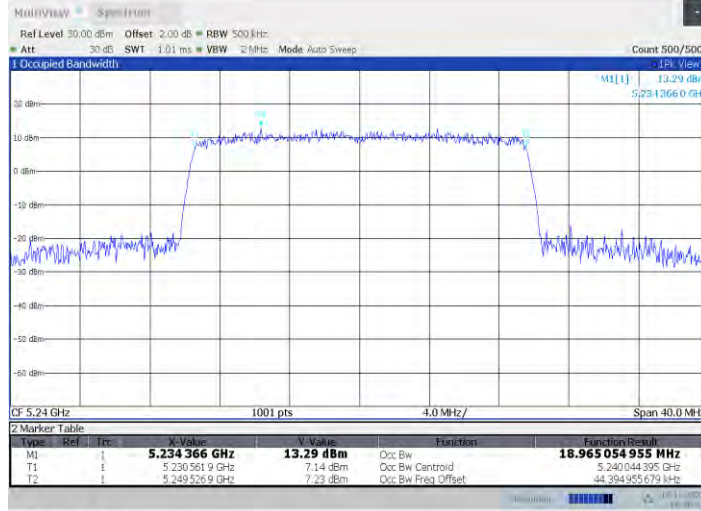
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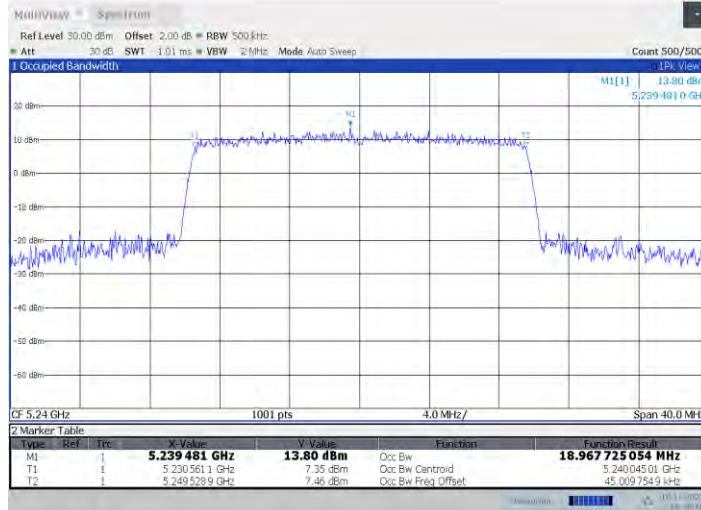
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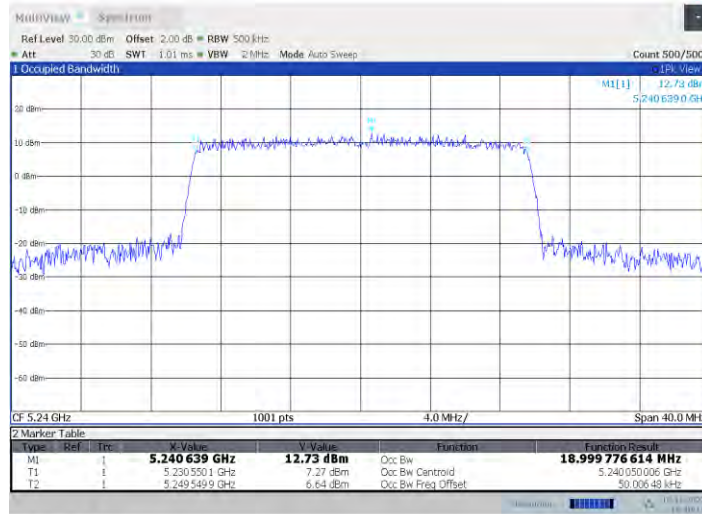


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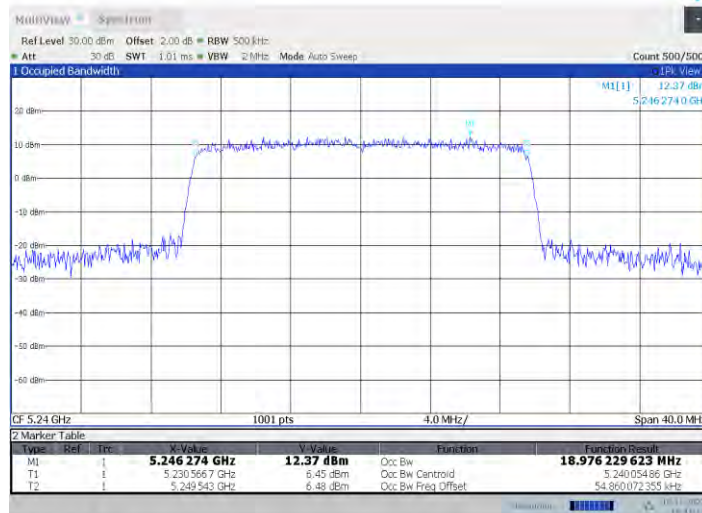
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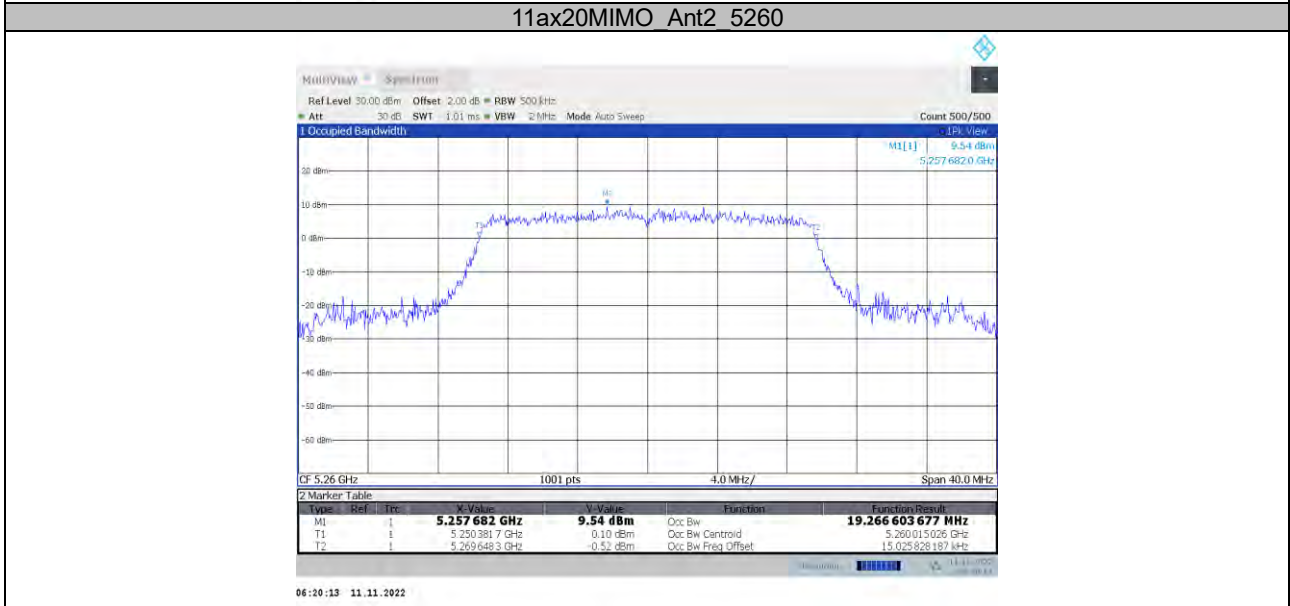
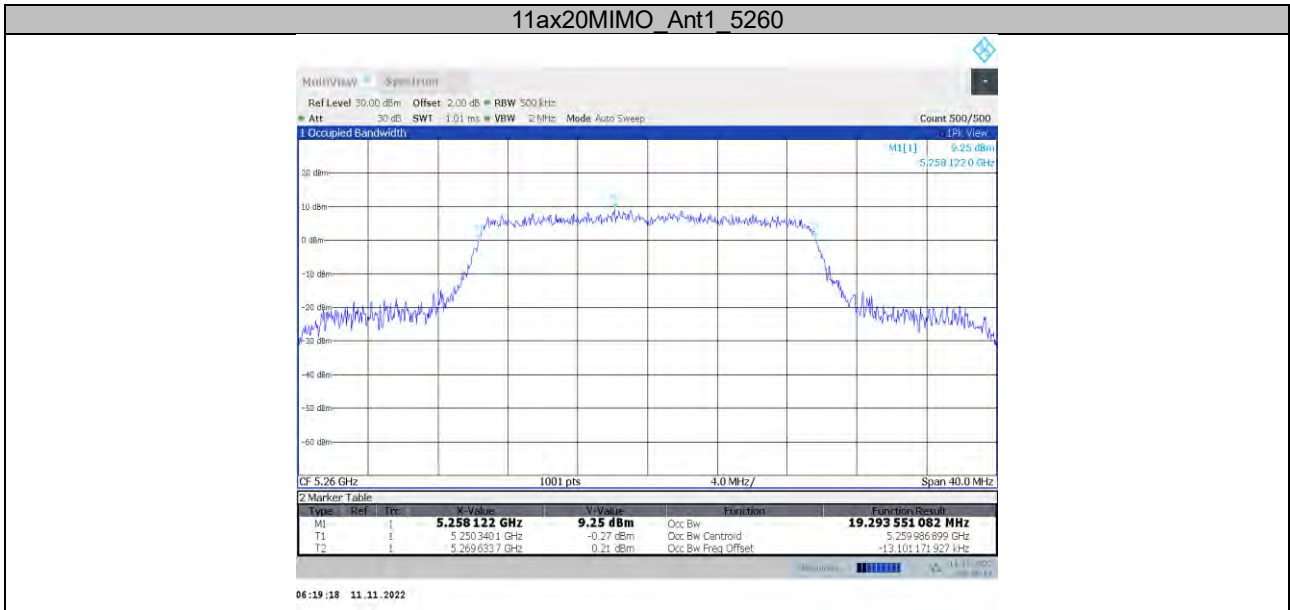


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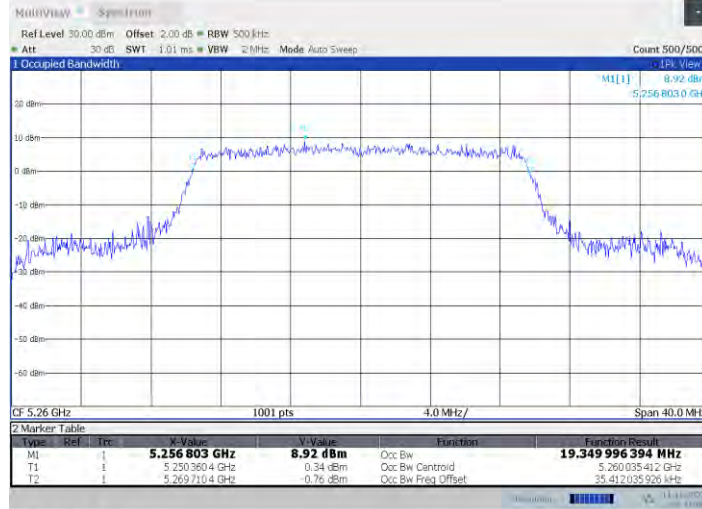
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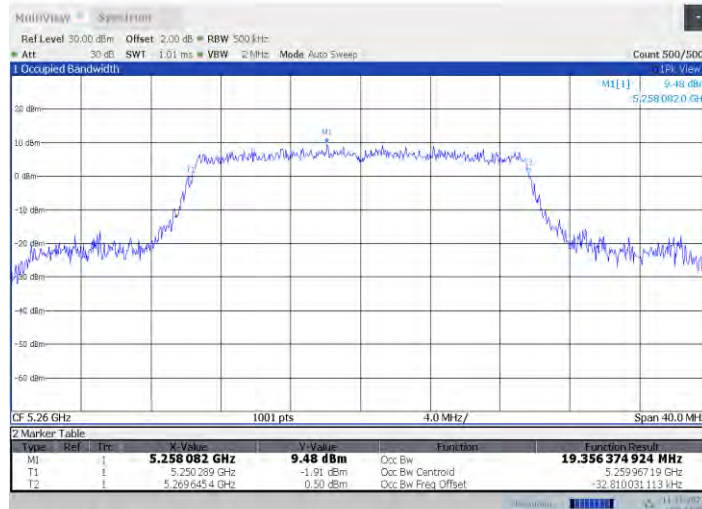
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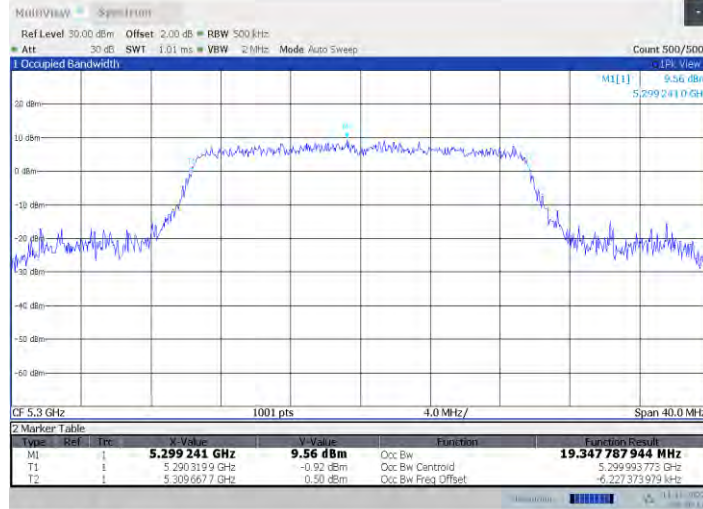
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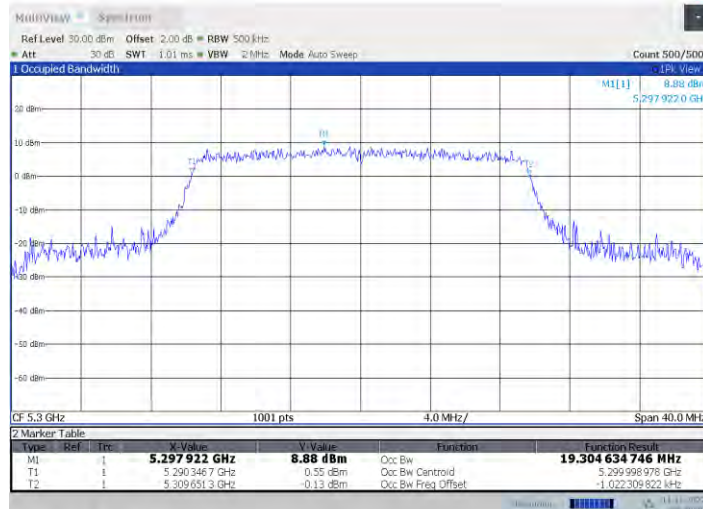
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06:28:13 11.11.2022

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