

Report No.: SEWA2303000041RG04

Rev.: 01

Page: 1 of 851

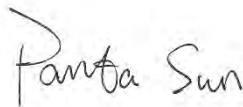
TEST REPORT

Application No: SEWA2303000041RG
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
EUT Description: Smart Module
Model No.: SG560D-WF
Trade Mark: Quectel
FCC ID: XMR2023SG560DWF
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2023/04/06
Date of Test: 2023/04/10 to 2023/05/24
Date of Issue: 2023/05/24

Test Result :	PASS *
----------------------	---------------

* 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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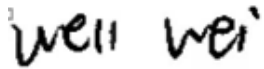
Report No.: SEWA2303000041RG04

Rev.: 01

Page: 2 of 851

1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/05/24		Original

Prepared By	
	(Ives Cheng) / Test Engineer
Checked By	
	(Well Wei) / Reviewer



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2 Test Summary

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement	--	15.203/15.407(a)	--	Clause 4.1	PASS
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 4.5	For Report Purpose
	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	For Report Purpose
	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	For Report Purpose
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		< 1W		
	Band III	15.407(a)(3)			
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 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 limit (AV&PK).	Clause 4.9	PASS
	Band II-A	15.407(b) 15.209	F<1GHz: §15.209 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 limit (AV&PK).		PASS
	Band II-C	15.407(b) 15.209	F<1GHz: §15.209 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 limit (AV&PK).		PASS
	Band III	15.407(b) 15.209	F<1GHz: §15.209 limit (QP) F≥1GHz &out-restricted:(QP)		PASS



Report No.: SEWA2303000041RG04

Rev.: 01

Page: 4 of 851

			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≥1GHz & in-restricted: §15.209 limit (AV&PK).		
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
Note 1: Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz					



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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	10
3.6	Description of Support Units	10
3.7	Worst-case configuration and mode	10
4	Test results and Measurement Data	11
4.1	Antenna Requirement	11
4.2	AC Power Line Conducted Emissions	13
4.3	Duty Cycle	17
4.4	Conducted Output Power	18
4.5	26dB Emission Bandwidth	19
4.6	6dB Emission Bandwidth	20
4.7	99% Occupied Bandwidth	21
4.8	Power Spectral Density	22
4.9	Radiated Spurious Emissions	23
4.10	Restricted bands around fundamental frequency	25
5	Measurement Uncertainty (95% confidence levels, k=2)	27
6	Equipment List	28
7	Photographs - Setup Photos	30



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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 6 of 851

3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, 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:	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:	Smart Module	
Model No.:	SG560D-WF	
Trade Mark:	Quectel	
Hardware Version:	R1.0	
Software Version:	SG560DWFPAR02A03	
SN:	RF Conducted	E1Q23CD11000024
	RSE & AC power line	E1Q23CD11000023
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
	802.11ax:	20 MHz / 40 MHz / 80 MHz / 160 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ax:	OFDM/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:	802.11ax(HE160)
Antenna Type:	External Antenna	
Antenna Gain:	5150MHz to 5250MHz: -0.67dBi (Ant0); -0.67dBi (Ant1); 5250MHz to 5350MHz: -0.19dBi (Ant0); -0.19dBi (Ant1); 5470MHz to 5725MHz: 1.28dBi (Ant0); 1.28dBi (Ant1); 5725MHz to 5850MHz: 1.10dBi (Ant0); 1.10dBi (Ant1);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	☒ SISO	802.11a/n/ac/ax
	☒ MIMO	802.11n/ac/ax: 2Tx & 2Rx
	☒ Diversity	802.11a: 2Tx & 2Rx
TPC Function:	☒ Support, ☐ Not Support	
Use Conditions:	Indoor	



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RF Cable:	1.5dB
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Remark: In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:		
Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

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

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



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

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

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddle Channel	144 ^[1]	5720	142 ^[2]	5710
	138 ^[3]	5690		
TDWR Channel	120 ^[1]	5600	124 ^[1]	5620
	128 ^[1]	5640	118 ^[2]	5590
	126 ^[2]	5630	122 ^[3]	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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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 10 of 851

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	4
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.
SMART-5G-EVB-KIT	Quectel	Q1-C0129
Adapter	DongGuan City GangQi Electronic Co.,Ltd	CQ36-120300-AX
Remark: all above the information of table are provided by client.		

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	CDD/MIMO - Data Rate
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)
802.11ax (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

Standard requirement:	47 CFR Part 15 Section 15.203
The antenna is External Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 5150MHz to 5250MHz: -0.67dBi (Ant0); -0.67dBi (Ant1);* 5250MHz to 5350MHz: -0.19dBi (Ant0); -0.19dBi (Ant1);* 5470MHz to 5725MHz: 1.28dBi (Ant0); 1.28dBi (Ant1);* 5725MHz to 5850MHz: 1.10dBi (Ant0); 1.10dBi (Ant1);* <i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i> <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>	



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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,

$$\text{Array Gain} = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB.}$$

- For power measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for } N_{ANT} \leq 4;$$

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

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

The EUT supports CDD System.

All antennas have the same gain:

Operation Frequency	ANT Gain0 (dBi)	ANT Gain1 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	-0.67	-0.67	-0.67	2.34	0	0
5250MHz to 5350MHz	-0.19	-0.19	-0.19	2.82	0	0
5470MHz to 5725MHz	1.28	1.28	1.28	4.29	0	0
5725MHz to 5850MHz	1.10	1.10	1.10	4.11	0	0

5150MHz to 5250MHz:

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

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

5250MHz to 5350MHz:

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

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

5470MHz to 5725MHz:

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

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

5725MHz to 5850MHz:

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

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



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207		
Test Method:	ANSI C63.10-2020 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:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020 on conducted measurement.		



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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 14 of 851

Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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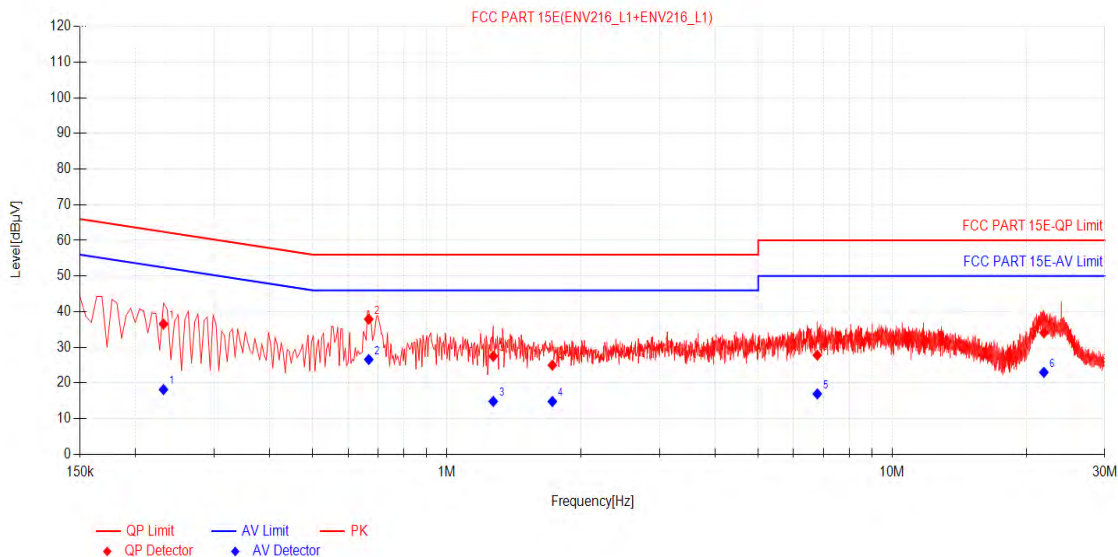
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Measurement Data

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.

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



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	0.2310	10.81	25.73	36.54	62.41	25.87	7.35	18.16	52.41	34.25	PASS
2	0.6675	10.56	27.36	37.92	56.00	18.08	16.04	26.60	46.00	19.40	PASS
3	1.2705	10.78	16.72	27.50	56.00	28.50	4.06	14.84	46.00	31.16	PASS
4	1.7250	10.73	14.27	25.00	56.00	31.00	4.08	14.81	46.00	31.19	PASS
5	6.7875	10.70	17.11	27.81	60.00	32.19	6.24	16.94	50.00	33.06	PASS
6	21.8985	10.37	23.73	34.10	60.00	25.90	12.62	22.99	50.00	27.01	PASS

Remark:

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

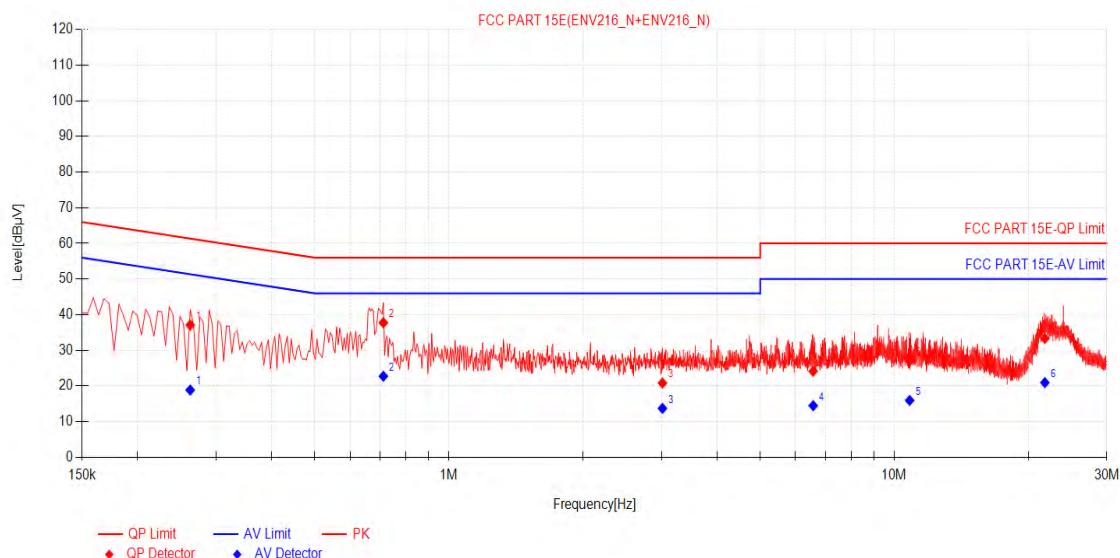


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Phase: Neutral



Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2625	10.73	26.36	37.09	61.35	24.26	8.14	18.87	51.35	32.48	PASS
2	0.7125	10.81	26.94	37.75	56.00	18.25	11.92	22.73	46.00	23.27	PASS
3	3.0165	10.59	10.24	20.83	56.00	35.17	3.13	13.72	46.00	32.28	PASS
4	6.5760	10.54	13.60	24.14	60.00	35.86	3.94	14.48	50.00	35.52	PASS
5	10.8285	10.66	16.32	26.98	60.00	33.02	5.30	15.96	50.00	34.04	PASS
6	21.7860	10.44	22.87	33.31	60.00	26.69	10.51	20.95	50.00	29.05	PASS

Remark:

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



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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 17 of 851

4.3 Duty Cycle

The detailed test data see: **Appendix**



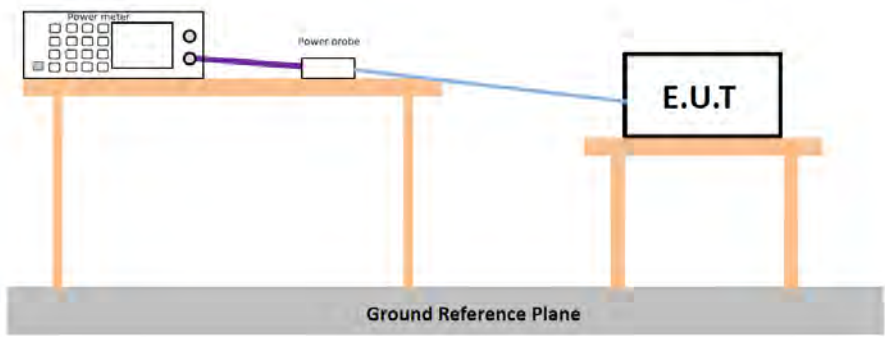
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)(ii)	
Test Method:	ANSI C63.10-2020 Section 12.4.3.2	
Test Setup:	 * Test with power meter (Detector function: Average) Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.	
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: Appendix		



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Report No.: SEWA2303000041RG04
Rev.: 01
Page: 19 of 851

4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C
Test Method:	ANSI C63.10-2020 Section 12.5.2
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	

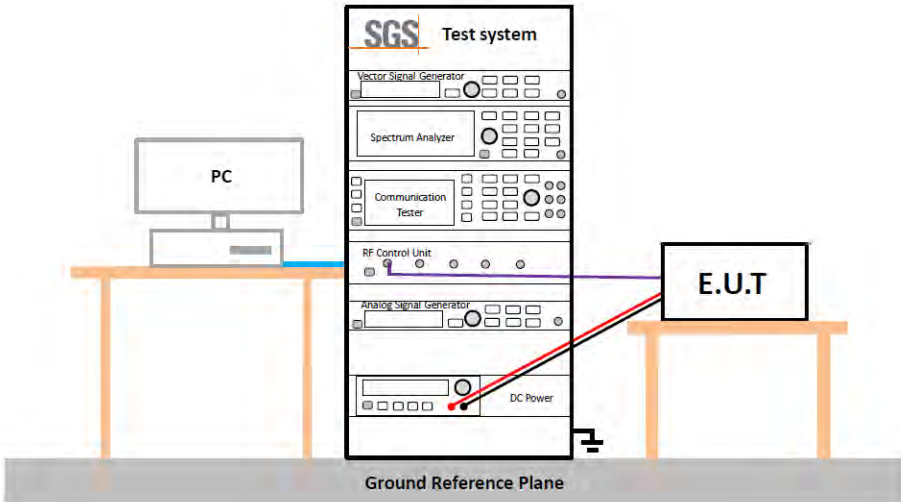


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4.6 6dB Emission Bandwidth

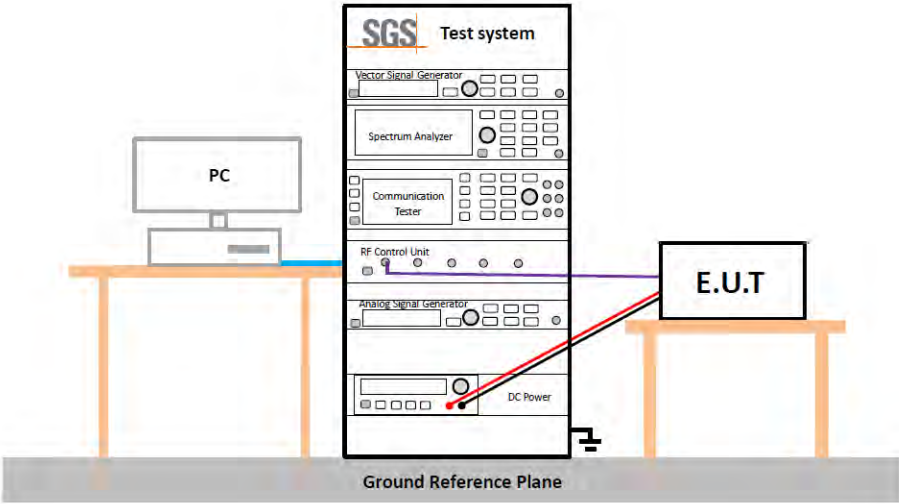
Test Requirement:	47 CFR Part 15 Section 15.407(e)		
Test Method:	ANSI C63.10-2020 Section 12.5.1		
Test Setup:			
Test Instruments:	Refer to section 6 for details.		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Refer to section 3.7 for details.		
Limit:	Frequency Band	Limit	
	5725-5850MHz	At lease 500kHz	
Test Results:	Pass		
The detailed test data see: Appendix			

Report No.: SEWA2303000041RG04

Rev.: 01

Page: 21 of 851

4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10-2020 Section 12.5.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	

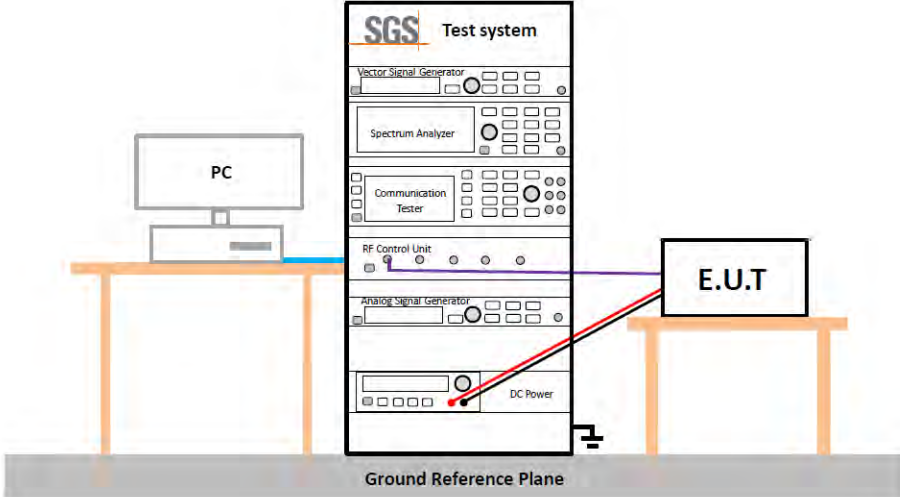


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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)(ii)	
Test Method:	ANSI C63.10-2020 Section 12.6 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: Appendix		

4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10-2020 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:

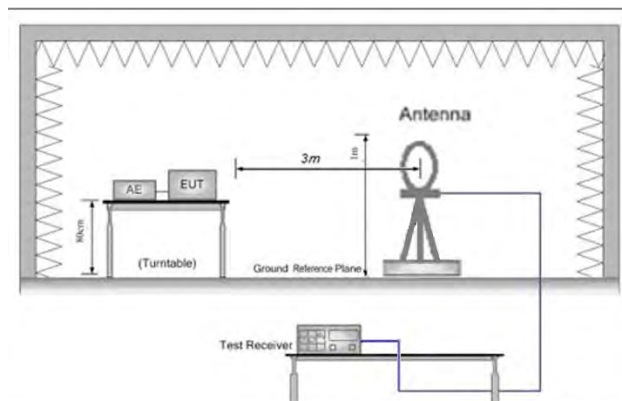


Figure 1. 9kHz to 30MHz

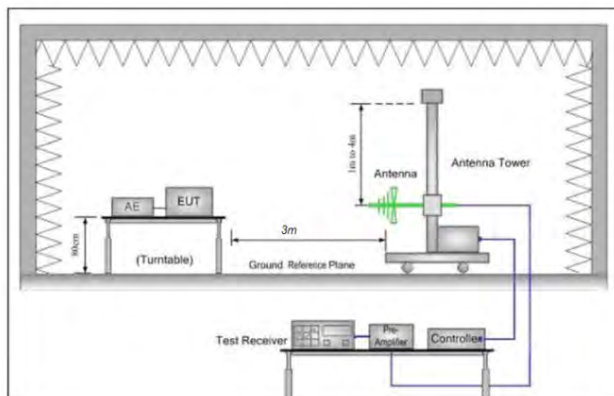


Figure 1. 30MHz to 1GHz

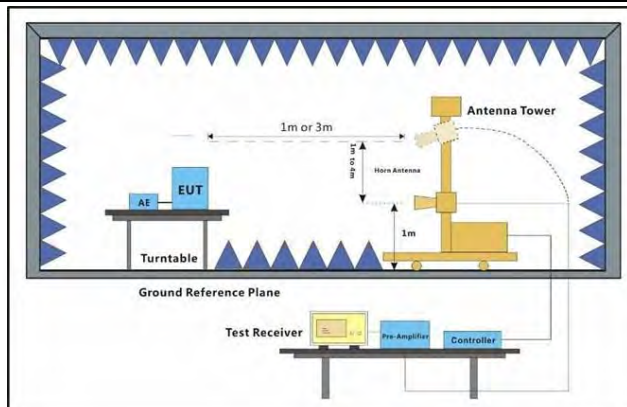


Figure 2. Above 1 GHz

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.

Report No.: SEWA2303000041RG04

Rev.: 01

Page: 24 of 851

	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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. 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. i. Repeat above procedures until all frequencies measured was complete. 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 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. l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
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: Appendix	



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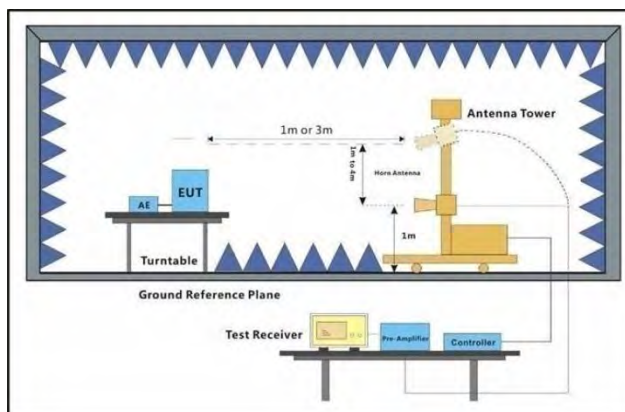
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10-2020 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.
- The radiation measurements are performed in X, Y, Z axis positioning for

Report No.: SEWA2303000041RG04

Rev.: 01

Page: 26 of 851

	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:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
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: Appendix	



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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 27 of 851

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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 1.0\%$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 1.0\%$
7	Conduction Emission	$\pm 2.90\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 3.13\text{dB}$ (9k to 30MHz)
		$\pm 4.88\text{dB}$ (30M to 1GHz)
		$\pm 4.75\text{dB}$ (1GHz to 18GHz)
		$\pm 4.77\text{dB}$ (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 28 of 851

6 Equipment List

RF Test Equipment					
Test 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	2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
				2023/05/11	2024/05/10
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
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN:101716	2023/02/22	2024/02/21

Conduction Test Equipment					
Test 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
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 29 of 851

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-01-01-13	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
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	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Note*:The equipment will not be used after 2023/05/08.



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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 30 of 851

7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 31 of 851

Appendix



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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 32 of 851

Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a-CDD	Ant0	5180	19.56	5170.20	5189.76	For Report Purpose
	Ant1	5180	19.56	5170.20	5189.76	
	Ant0	5220	19.76	5210.00	5229.76	
	Ant1	5220	19.52	5210.28	5229.80	
	Ant0	5240	19.28	5230.28	5249.56	
	Ant1	5240	19.68	5230.12	5249.80	
	Ant0	5260	19.52	5250.20	5269.72	
	Ant1	5260	19.40	5250.40	5269.80	
	Ant0	5300	19.68	5290.12	5309.80	
	Ant1	5300	19.68	5290.12	5309.80	
	Ant0	5320	20.04	5309.92	5329.96	
	Ant1	5320	19.76	5310.08	5329.84	
	Ant0	5500	19.56	5490.12	5509.68	
	Ant1	5500	19.44	5490.24	5509.68	
	Ant0	5580	19.56	5570.16	5589.72	
	Ant1	5580	19.36	5570.28	5589.64	
	Ant0	5700	19.52	5690.20	5709.72	
	Ant1	5700	19.44	5690.24	5709.68	
	Ant0	5720	19.52	5710.20	5729.72	
	Ant1	5720	19.48	5710.24	5729.72	
	Ant0	5720 UNII-2C	14.8	5710.20	5725	
	Ant1	5720 UNII-2C	14.76	5710.24	5725	
	Ant0	5720 UNII-3	4.72	5725	5729.72	
	Ant1	5720 UNII-3	4.72	5725	5729.72	
	Ant0	5745	19.56	5735.16	5754.72	
	Ant1	5745	19.44	5735.36	5754.80	
	Ant0	5785	19.52	5775.20	5794.72	
	Ant1	5785	19.44	5775.36	5794.80	
11ac20MIMO	Ant0	5180	20.56	5169.84	5190.40	
	Ant1	5180	23.28	5169.52	5192.80	
	Ant0	5220	21.12	5209.32	5230.44	
	Ant1	5220	20.92	5209.64	5230.56	
	Ant0	5240	21.04	5229.60	5250.64	
	Ant1	5240	21.12	5229.56	5250.68	
	Ant0	5260	20.56	5249.80	5270.36	
	Ant1	5260	20.84	5249.68	5270.52	
	Ant0	5300	20.84	5289.68	5310.52	
	Ant1	5300	20.92	5289.60	5310.52	
	Ant0	5320	20.72	5309.68	5330.40	
	Ant1	5320	20.56	5309.80	5330.36	
	Ant0	5500	20.76	5489.76	5510.52	
	Ant1	5500	20.56	5489.68	5510.24	
	Ant0	5580	20.68	5569.76	5590.44	
	Ant1	5580	20.56	5569.84	5590.40	
	Ant0	5700	20.56	5689.84	5710.40	
	Ant1	5700	20.40	5689.84	5710.24	
	Ant0	5720	20.60	5709.88	5730.48	
	Ant1	5720	20.56	5709.80	5730.36	



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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 33 of 851

	Ant0	5720 UNII-2C	15.12	5709.88	5725
	Ant1	5720 UNII-2C	15.2	5709.80	5725
	Ant0	5720 UNII-3	5.48	5725	5730.48
	Ant1	5720 UNII-3	5.36	5725	5730.36
	Ant0	5745	20.52	5734.84	5755.36
	Ant1	5745	20.84	5734.68	5755.52
	Ant0	5785	20.76	5774.80	5795.56
	Ant1	5785	20.68	5774.76	5795.44
	Ant0	5825	20.76	5814.68	5835.44
11ac40MIMO	Ant1	5825	20.68	5814.76	5835.44
	Ant0	5190	40.00	5170.16	5210.16
	Ant1	5190	40.16	5170.08	5210.24
	Ant0	5230	39.68	5210.24	5249.92
	Ant1	5230	39.84	5210.24	5250.08
	Ant0	5270	40.16	5249.92	5290.08
	Ant1	5270	40.00	5250.08	5290.08
	Ant0	5310	39.84	5290.08	5329.92
	Ant1	5310	40.00	5290.08	5330.08
	Ant0	5510	40.08	5490.00	5530.08
	Ant1	5510	40.08	5490.00	5530.08
	Ant0	5550	40.32	5529.84	5570.16
	Ant1	5550	40.00	5530.16	5570.16
	Ant0	5670	40.08	5650.08	5690.16
	Ant1	5670	39.92	5650.08	5690.00
	Ant0	5710	40.16	5690.00	5730.16
	Ant1	5710	39.92	5690.16	5730.08
	Ant0	5710 UNII-2C	35	5690.00	5725
	Ant1	5710 UNII-2C	34.84	5690.16	5725
	Ant0	5710 UNII-3	5.16	5725	5730.16
	Ant1	5710 UNII-3	5.08	5725	5730.08
	Ant0	5755	40.08	5735.16	5775.24
	Ant1	5755	40.24	5734.92	5775.16
	Ant0	5795	40.08	5775.08	5815.16
	Ant1	5795	40.16	5775.00	5815.16
11ac80MIMO	Ant0	5210	82.88	5169.04	5251.92
	Ant1	5210	83.20	5168.88	5252.08
	Ant0	5290	82.72	5248.72	5331.44
	Ant1	5290	82.24	5248.88	5331.12
	Ant0	5530	83.04	5488.72	5571.76
	Ant1	5530	81.92	5489.20	5571.12
	Ant0	5610	83.20	5568.56	5651.76
	Ant1	5610	82.72	5568.88	5651.60
	Ant0	5690	82.56	5648.88	5731.44
	Ant1	5690	82.40	5649.04	5731.44
	Ant0	5690 UNII-2C	76.12	5648.88	5725
	Ant1	5690 UNII-2C	75.96	5649.04	5725
	Ant0	5690 UNII-3	6.44	5725	5731.44
	Ant1	5690 UNII-3	6.44	5725	5731.44
	Ant0	5775	82.88	5733.72	5816.60
	Ant1	5775	82.88	5733.88	5816.76
11ax20MIMO	Ant0	5180	21.20	5169.44	5190.64
	Ant1	5180	21.00	5169.52	5190.52
	Ant0	5220	21.40	5209.36	5230.76
	Ant1	5220	21.56	5209.32	5230.88
	Ant0	5240	21.20	5229.36	5250.56
	Ant1	5240	21.28	5229.52	5250.80
	Ant0	5260	21.40	5249.40	5270.80



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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 34 of 851

	Ant1	5260	21.52	5249.24	5270.76
	Ant0	5300	21.40	5289.28	5310.68
	Ant1	5300	21.40	5289.32	5310.72
	Ant0	5320	21.76	5309.16	5330.92
	Ant1	5320	21.28	5309.40	5330.68
	Ant0	5500	20.92	5489.60	5510.52
	Ant1	5500	21.12	5489.56	5510.68
	Ant0	5580	21.16	5569.52	5590.68
	Ant1	5580	21.28	5569.52	5590.80
	Ant0	5700	20.88	5689.64	5710.52
	Ant1	5700	21.28	5689.52	5710.80
	Ant0	5720	20.88	5709.68	5730.56
	Ant1	5720	21.12	5709.60	5730.72
	Ant0	5720 UNII-2C	15.32	5709.68	5725
	Ant1	5720 UNII-2C	15.4	5709.60	5725
	Ant0	5720 UNII-3	5.56	5725	5730.56
	Ant1	5720 UNII-3	5.72	5725	5730.72
	Ant0	5745	21.16	5734.48	5755.64
	Ant1	5745	21.24	5734.40	5755.64
	Ant0	5785	21.32	5774.56	5795.88
	Ant1	5785	21.20	5774.56	5795.76
	Ant0	5825	21.48	5814.44	5835.92
	Ant1	5825	21.44	5814.40	5835.84
11ax40MIMO	Ant0	5190	40.56	5169.68	5210.24
	Ant1	5190	40.64	5169.76	5210.40
	Ant0	5230	40.56	5209.68	5250.24
	Ant1	5230	40.88	5209.52	5250.40
	Ant0	5270	40.16	5249.92	5290.08
	Ant1	5270	40.72	5249.76	5290.48
	Ant0	5310	40.80	5289.60	5330.40
	Ant1	5310	40.80	5289.68	5330.48
	Ant0	5510	40.48	5489.76	5530.24
	Ant1	5510	40.72	5489.68	5530.40
	Ant0	5550	40.72	5529.76	5570.48
	Ant1	5550	40.56	5529.68	5570.24
	Ant0	5670	40.72	5649.76	5690.48
	Ant1	5670	40.48	5649.76	5690.24
	Ant0	5710	40.56	5689.76	5730.32
	Ant1	5710	40.48	5689.84	5730.32
	Ant0	5710 UNII-2C	35.24	5689.76	5725
	Ant1	5710 UNII-2C	35.16	5689.84	5725
	Ant0	5710 UNII-3	5.32	5725	5730.32
	Ant1	5710 UNII-3	5.32	5725	5730.32
	Ant0	5755	40.72	5734.68	5775.40
	Ant1	5755	40.48	5734.76	5775.24
	Ant0	5795	41.04	5774.68	5815.72
	Ant1	5795	41.04	5774.52	5815.56
11ax80MIMO	Ant0	5210	83.04	5168.72	5251.76
	Ant1	5210	83.04	5169.04	5252.08
	Ant0	5290	83.52	5248.40	5331.92
	Ant1	5290	83.04	5248.88	5331.92
	Ant0	5530	83.20	5488.72	5571.92
	Ant1	5530	83.36	5488.56	5571.92
	Ant0	5610	82.40	5569.04	5651.44
	Ant1	5610	82.72	5568.88	5651.60
	Ant0	5690	82.72	5648.88	5731.60
	Ant1	5690	82.56	5648.88	5731.44



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Report No.: SEWA2303000041RG04

Rev.: 01

Page: 35 of 851

	Ant0	5690_UNII-2C	76.12	5648.88	5725
	Ant1	5690_UNII-2C	76.12	5648.88	5725
	Ant0	5690_UNII-3	6.6	5725	5731.60
	Ant1	5690_UNII-3	6.44	5725	5731.44
	Ant0	5775	82.88	5733.88	5816.76
	Ant1	5775	82.72	5734.04	5816.76
11ax160MIMO	Ant0	5250	165.76	5168.08	5333.84
	Ant1	5250	166.08	5167.76	5333.84
	Ant0	5250_UNII-1	81.92	5168.08	5250
	Ant1	5250_UNII-1	82.24	5167.76	5250
	Ant0	5250_UNII-2A	83.84	5250	5333.84
	Ant1	5250_UNII-2A	83.84	5250	5333.84
	Ant0	5570	166.40	5486.80	5653.20
	Ant1	5570	166.08	5487.44	5653.52

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11ac VHT20/40 by referring to their higher output power.



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

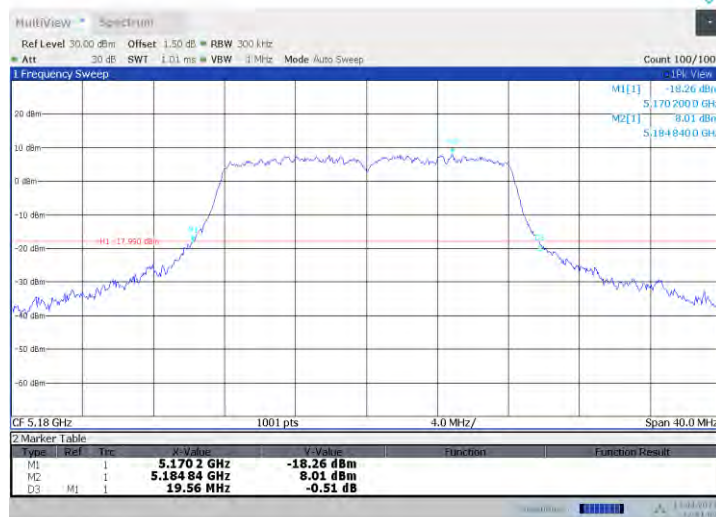
Test Graphs

11a-CDD Ant0 5180



12:40:14 13.04.2023

11a-CDD Ant1 5180



12:41:09 13.04.2023



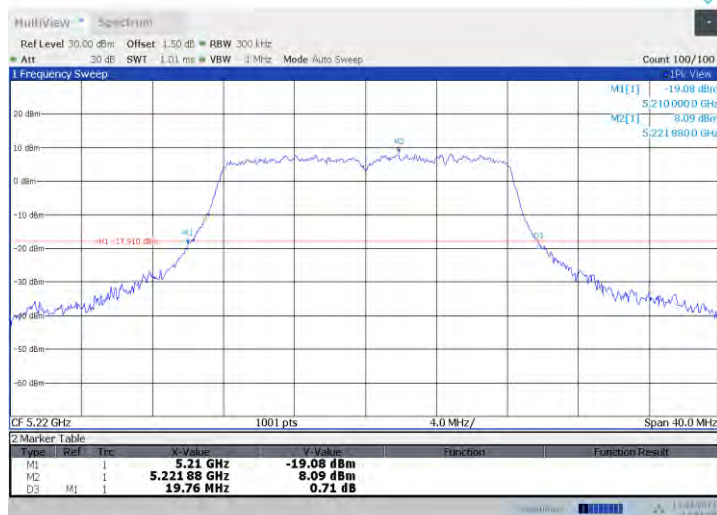
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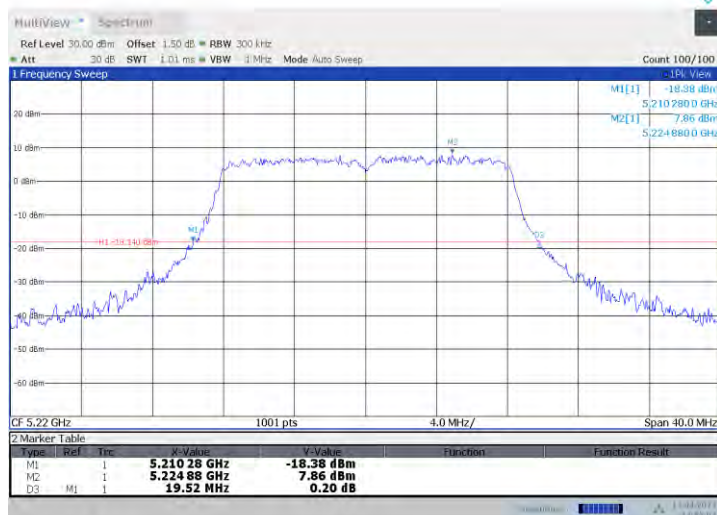
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11a-CDD Ant0 5220



12:44:08 13.04.2023

11a-CDD Ant1 5220



12:45:03 13.04.2023



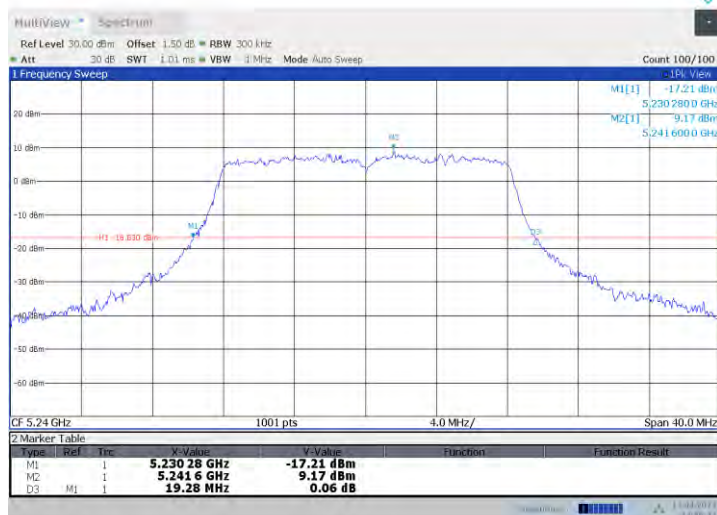
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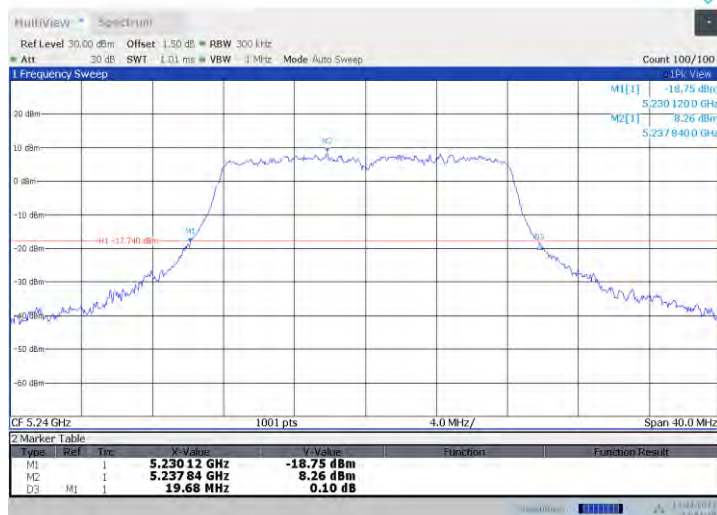
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11a-CDD Ant0 5240



12:46:33 13.04.2023

11a-CDD Ant1 5240



12:47:28 13.04.2023



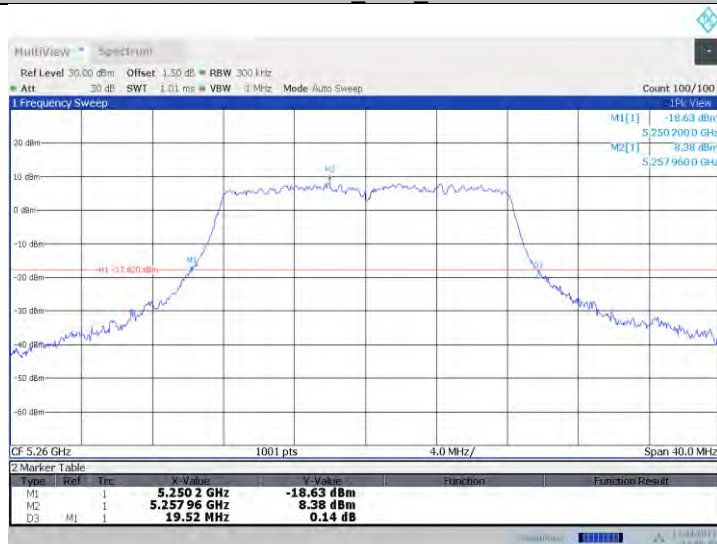
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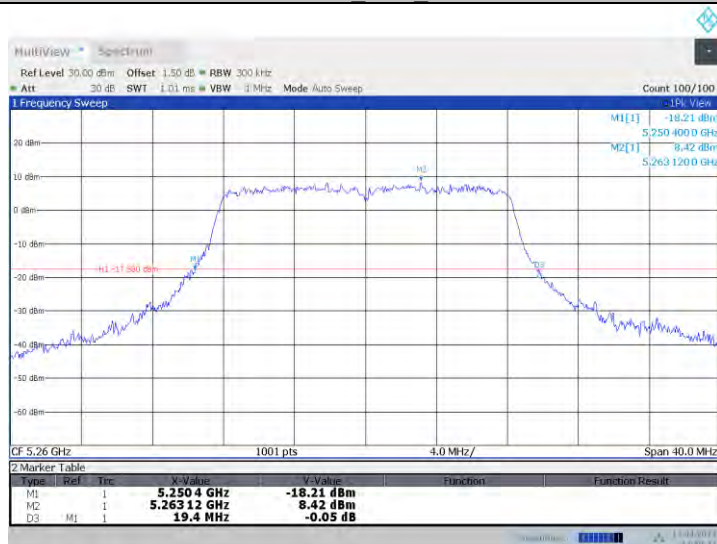
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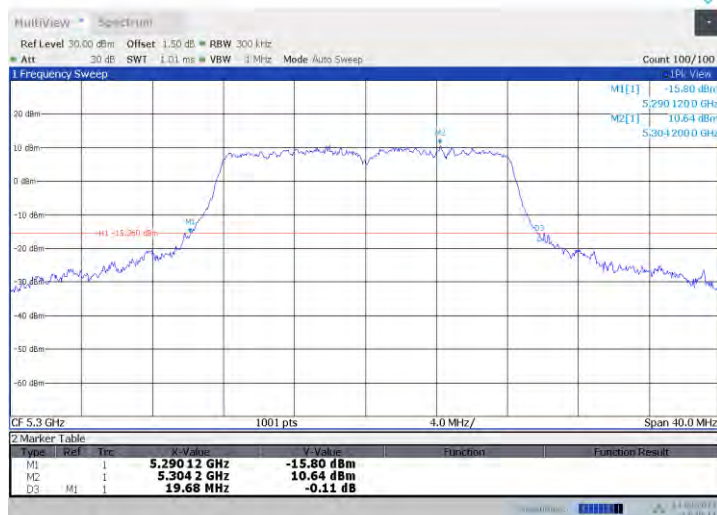
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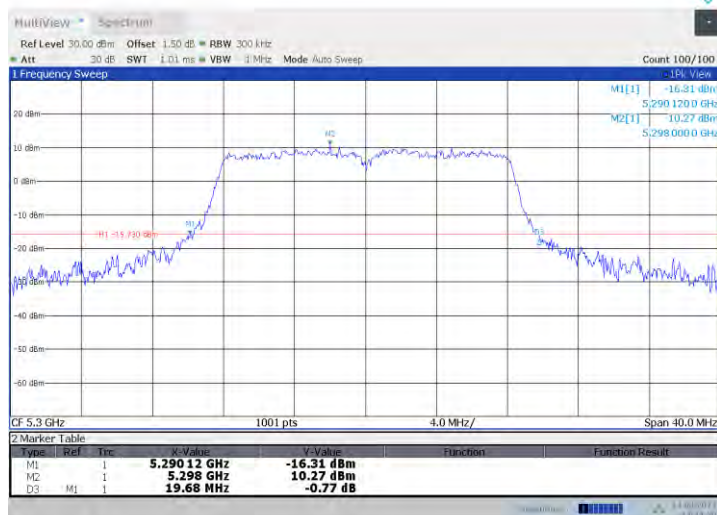
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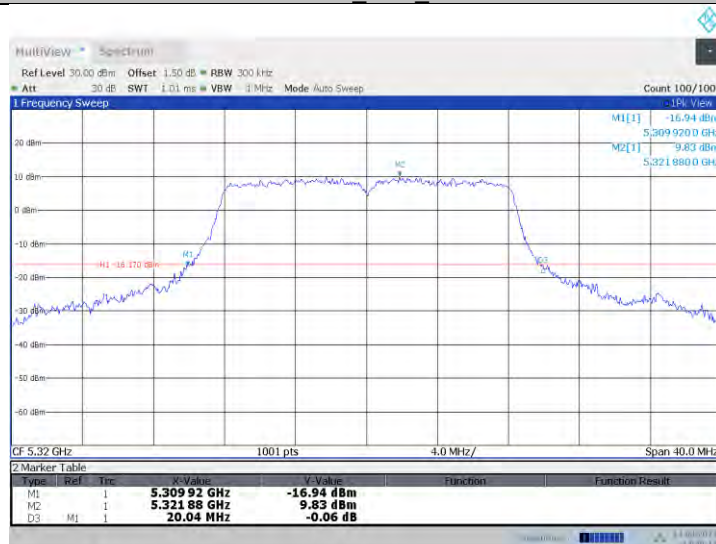
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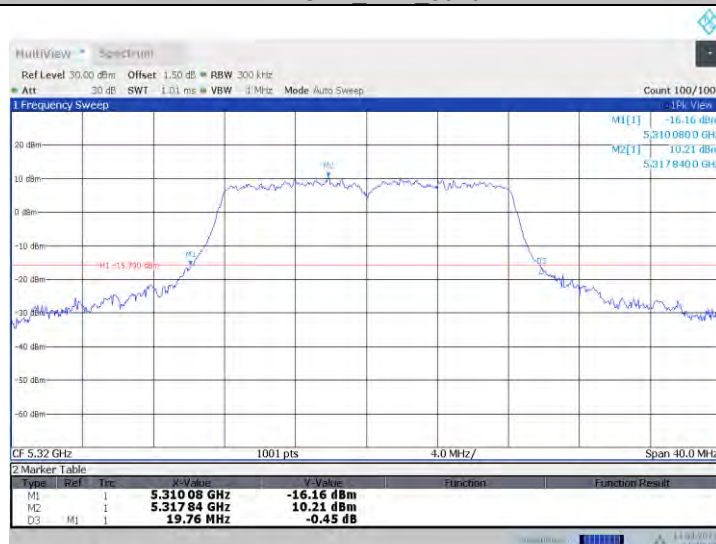
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11a-CDD Ant1 5320



14:00:58 14.04.2023



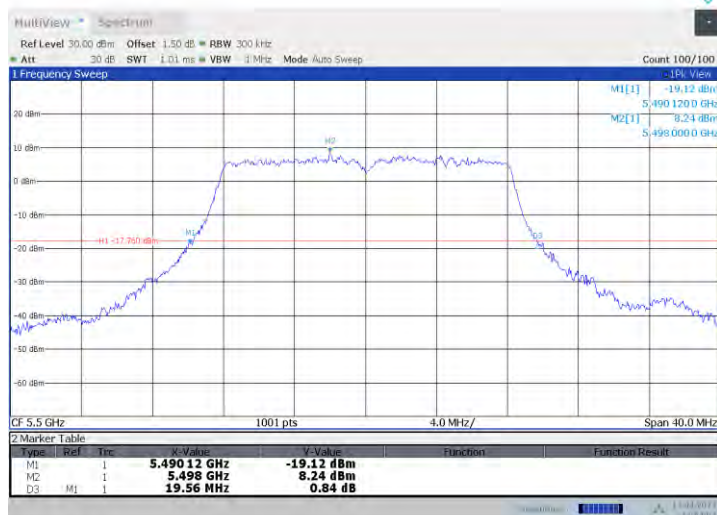
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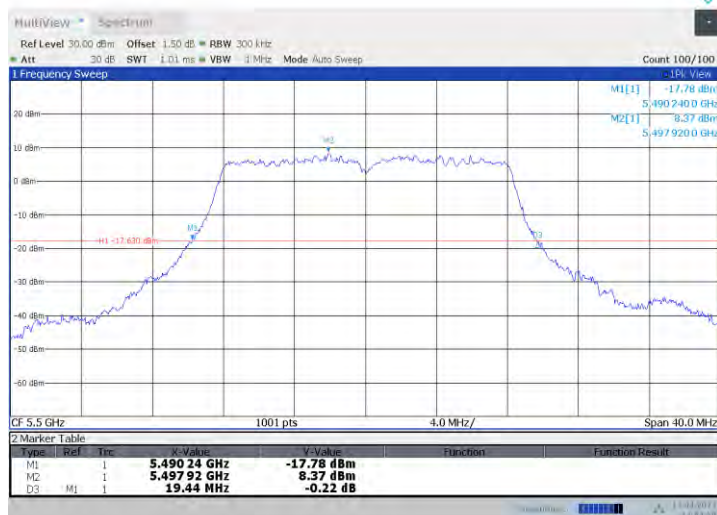
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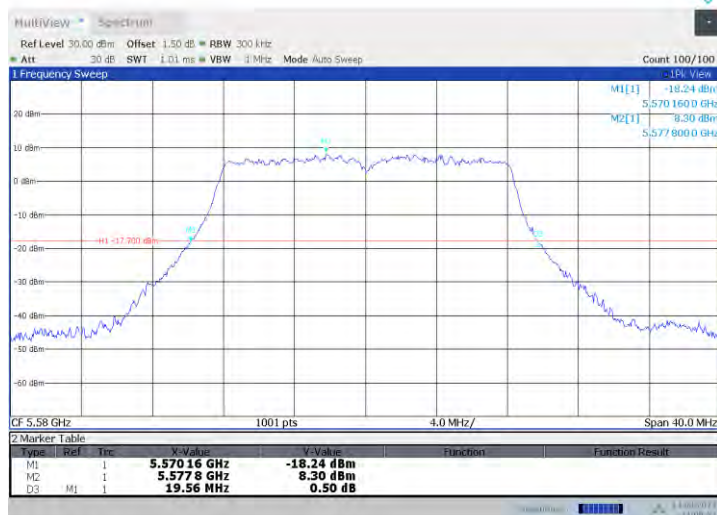
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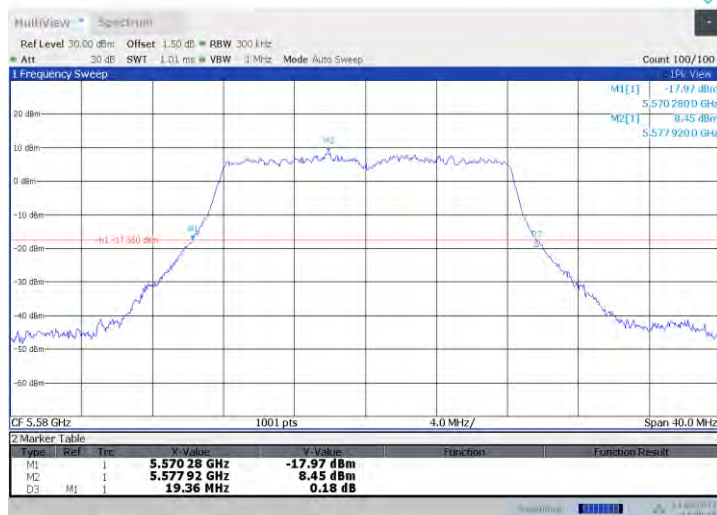
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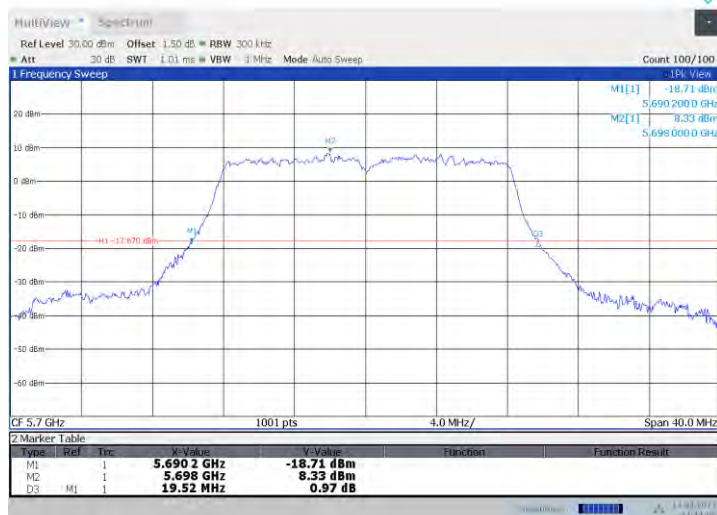
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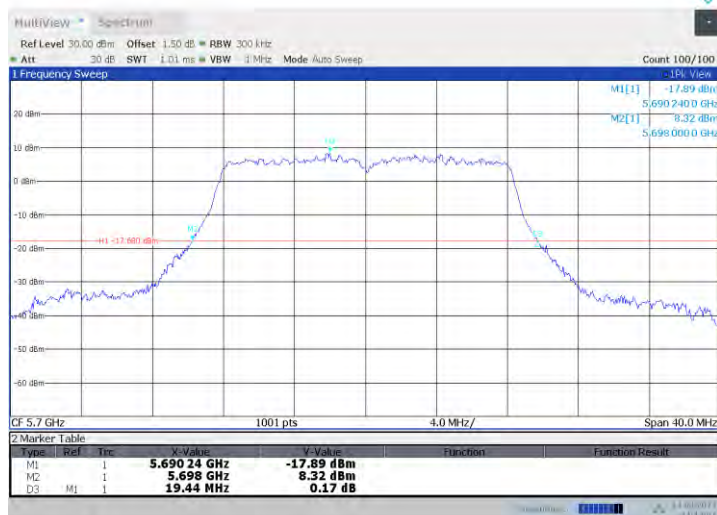
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11a-CDD Ant1 5700



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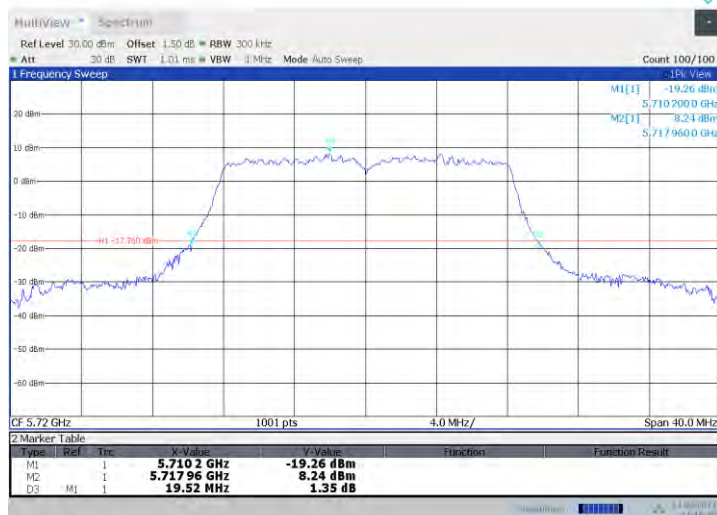
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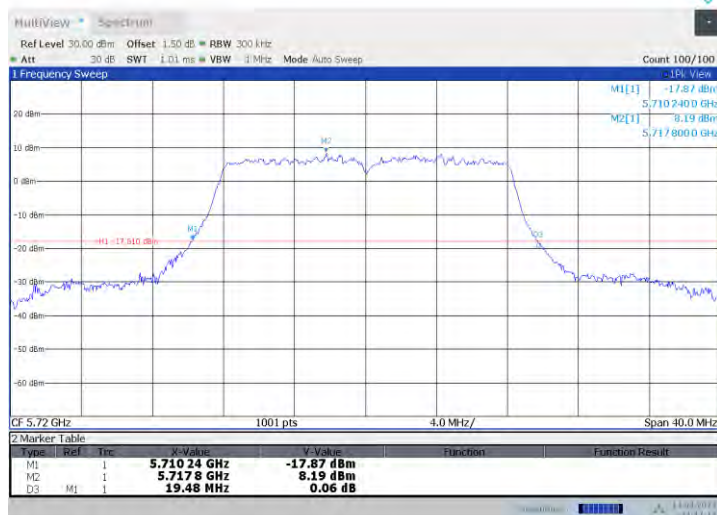
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14:17:14 14.04.2023



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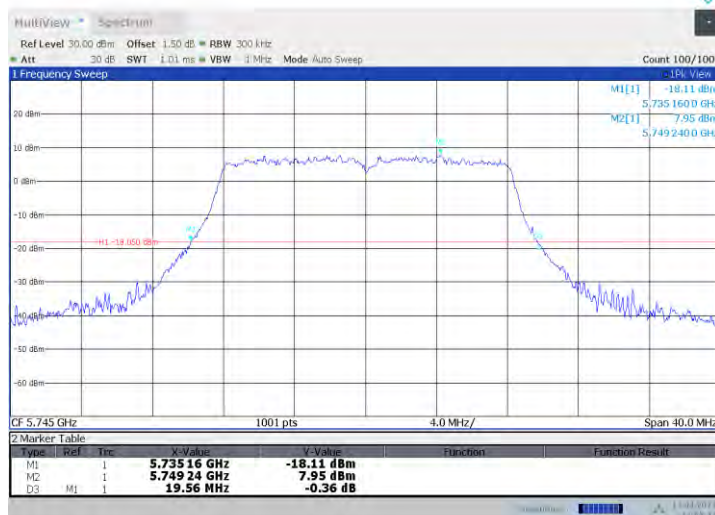
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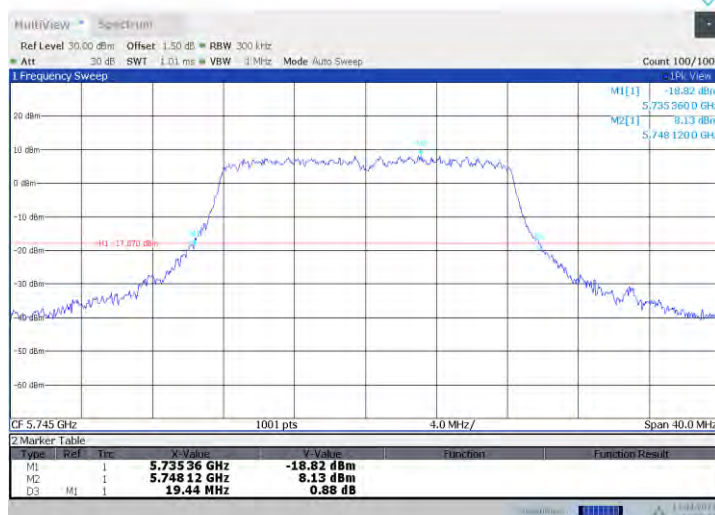
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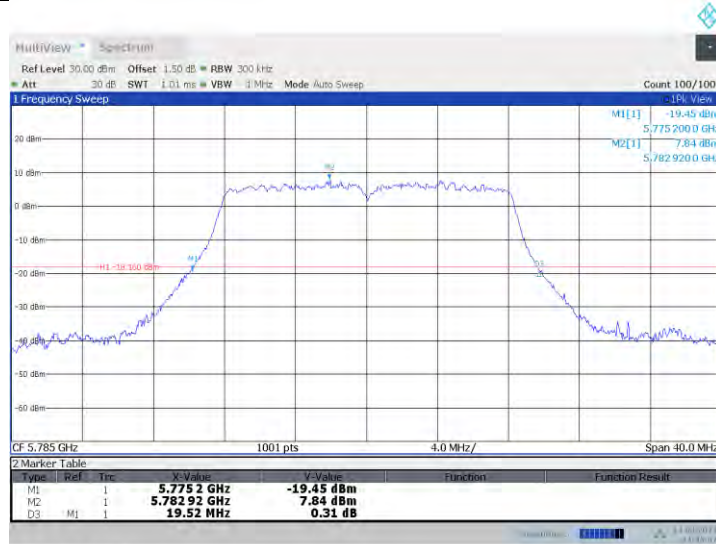
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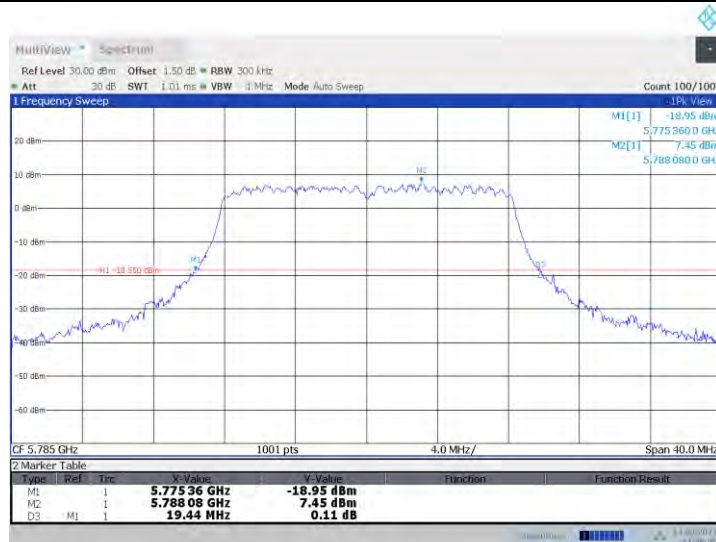
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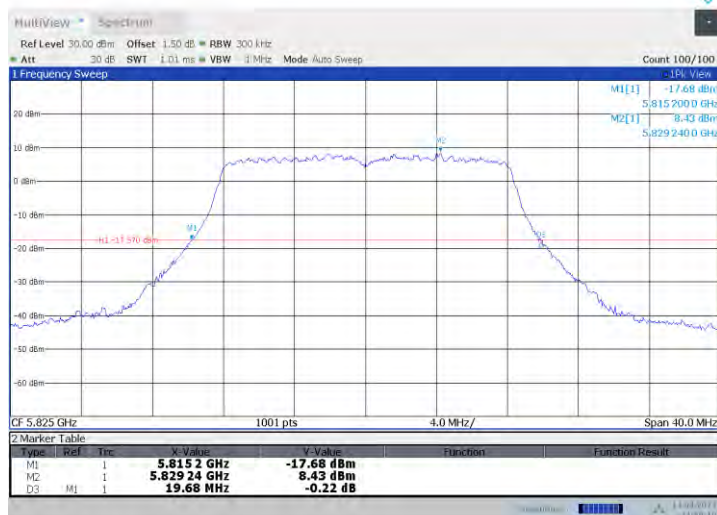
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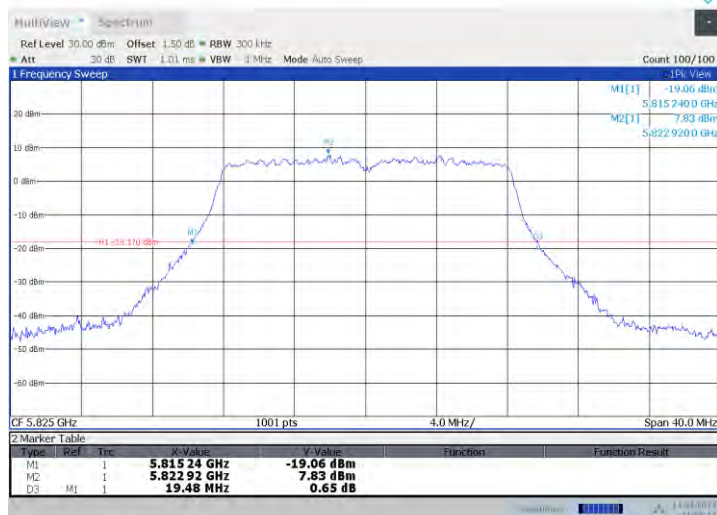
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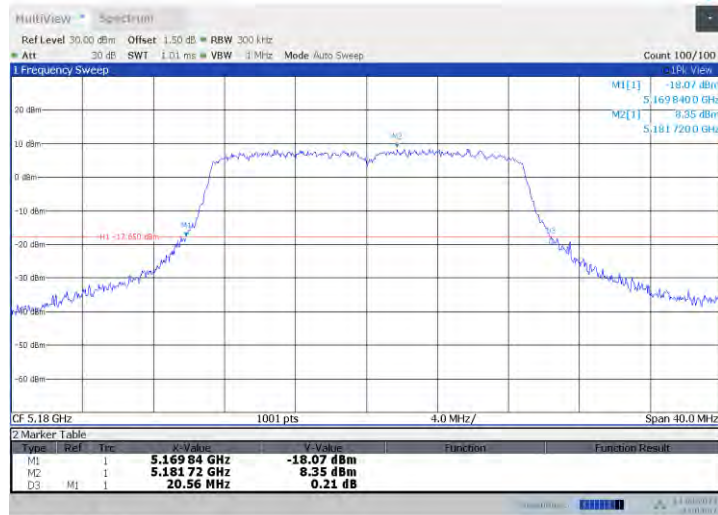
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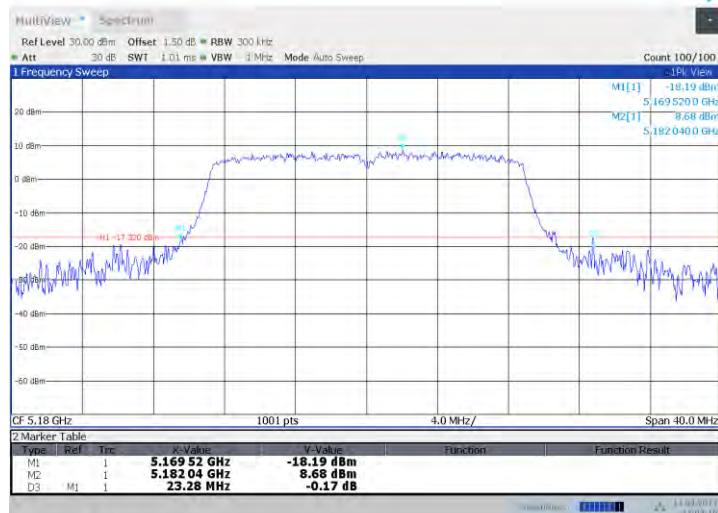
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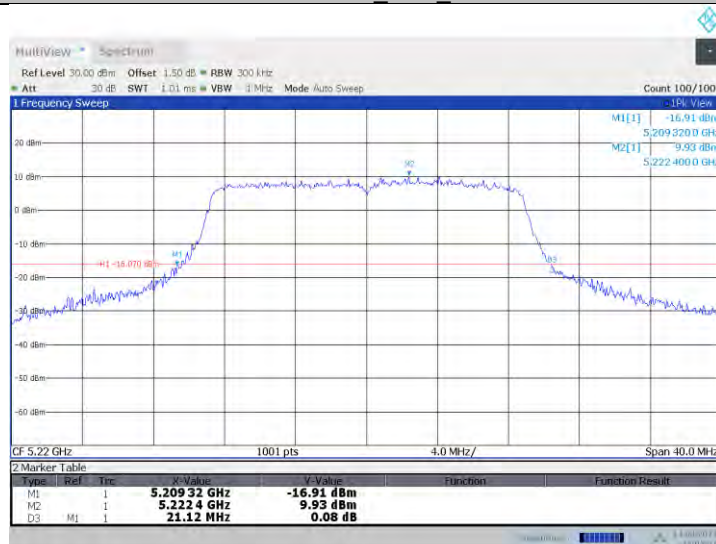
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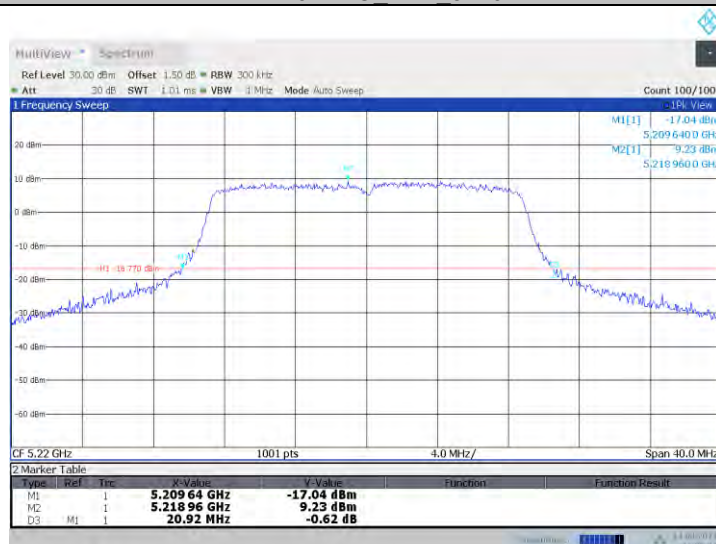
Page: 50 of 851

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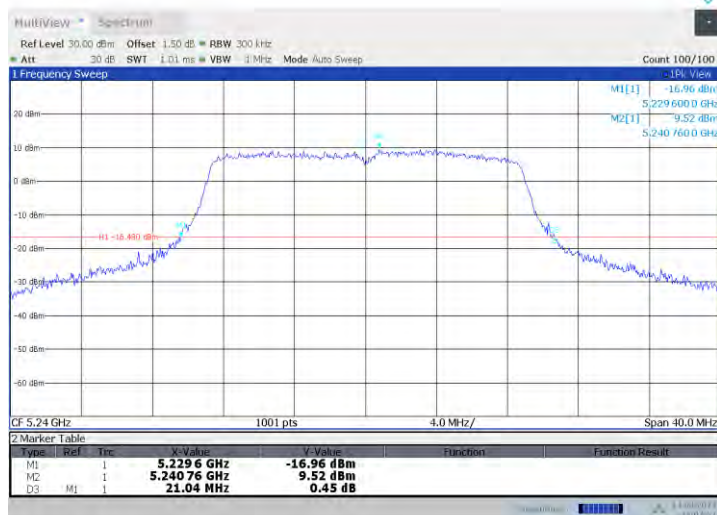
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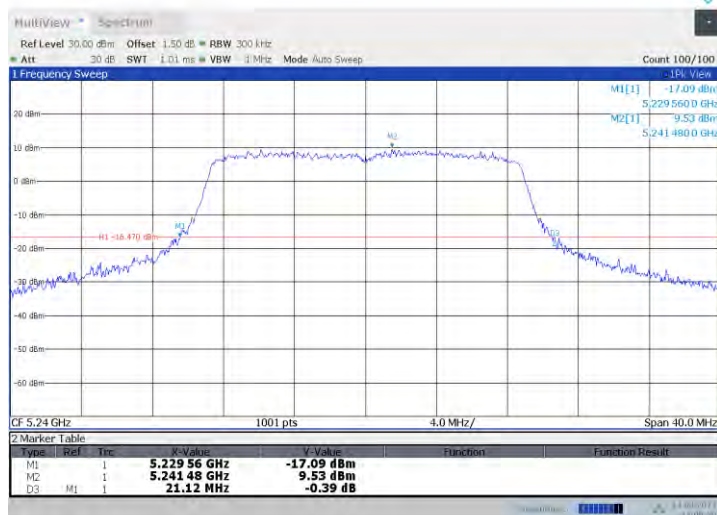
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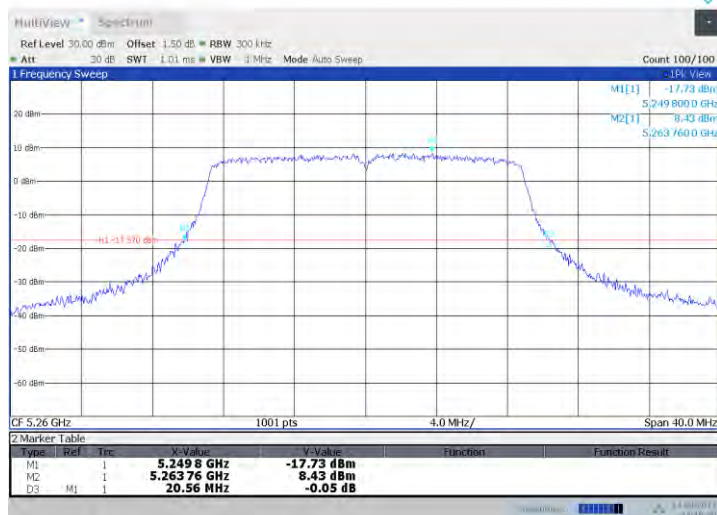
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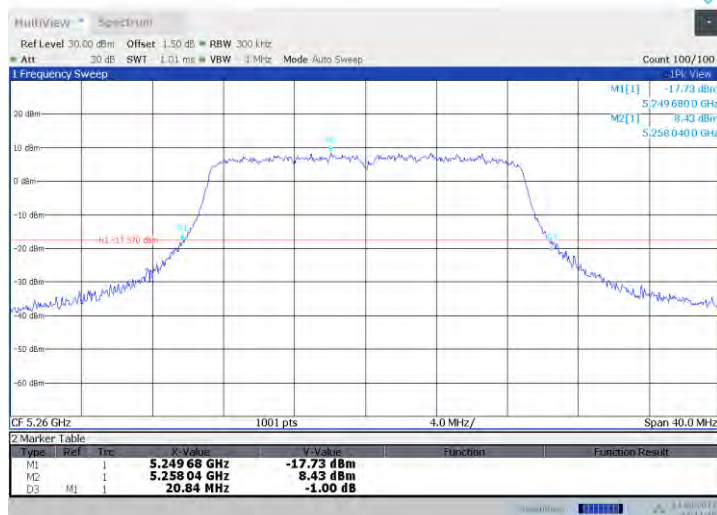
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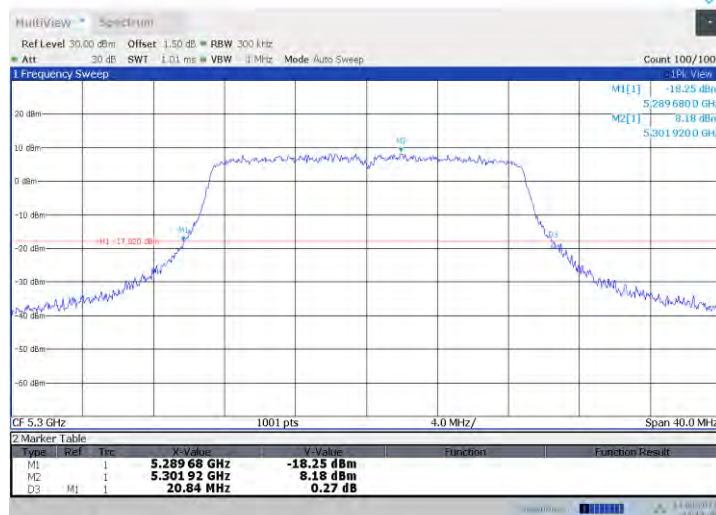
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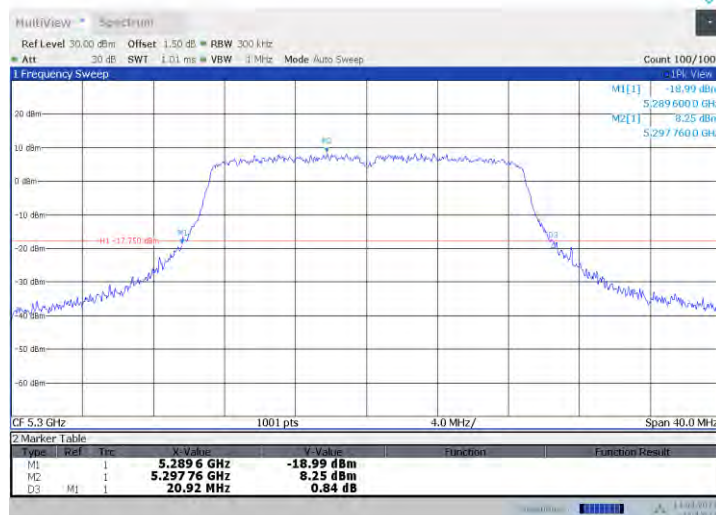
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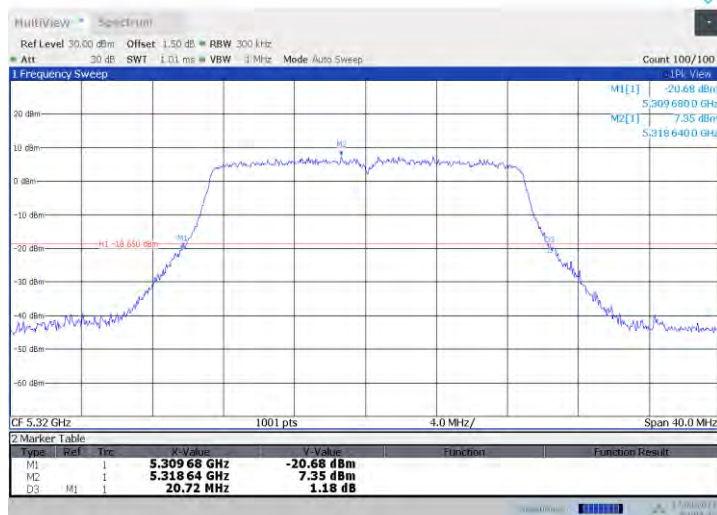
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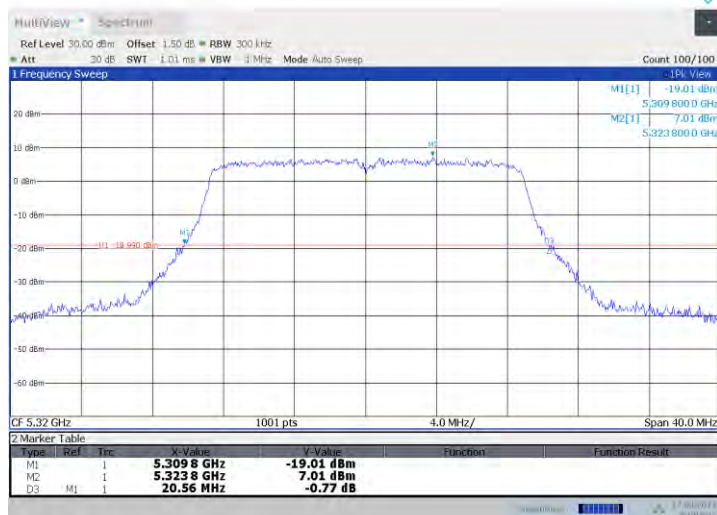
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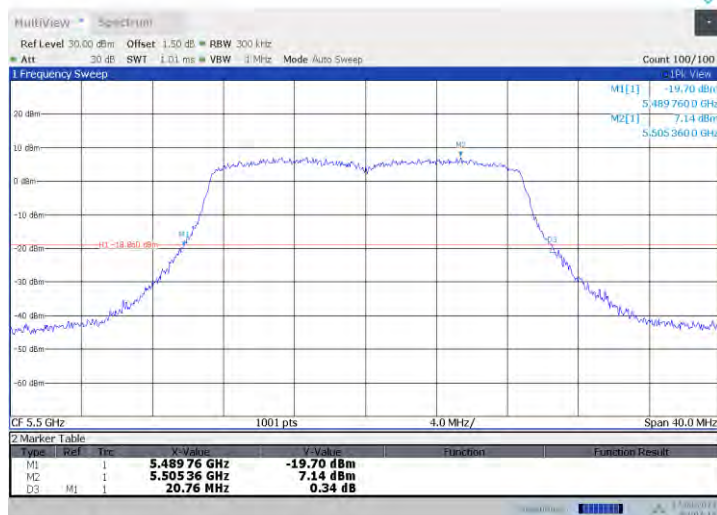
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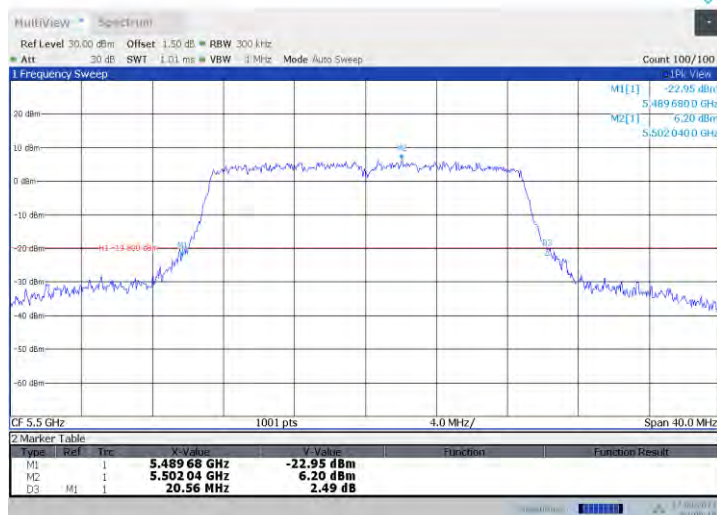
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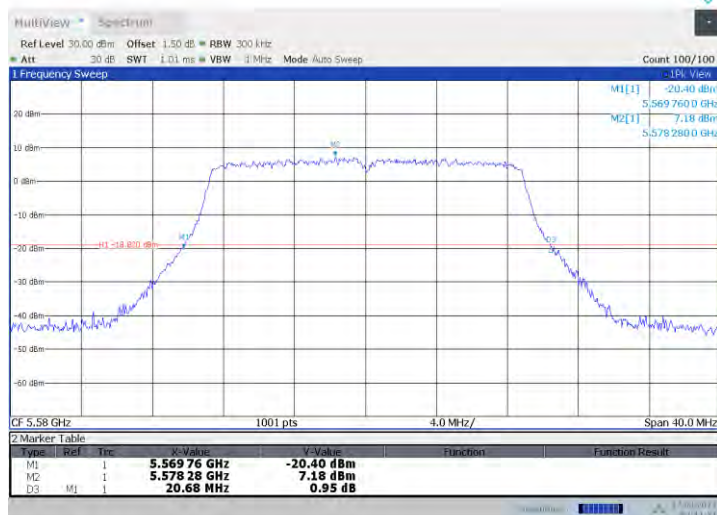
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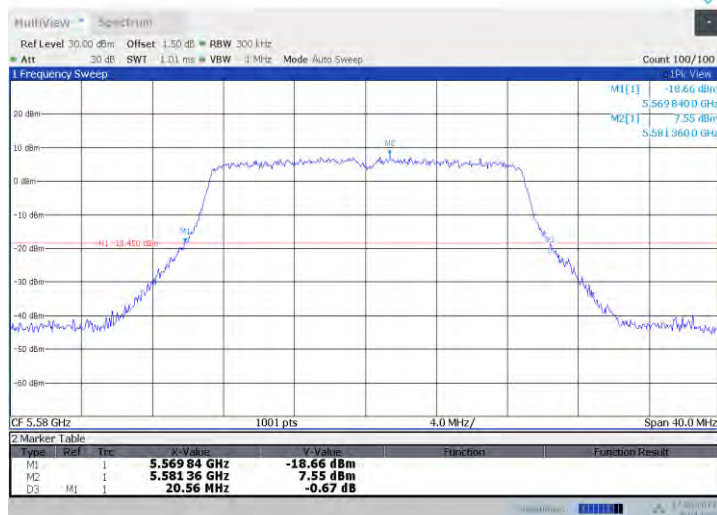
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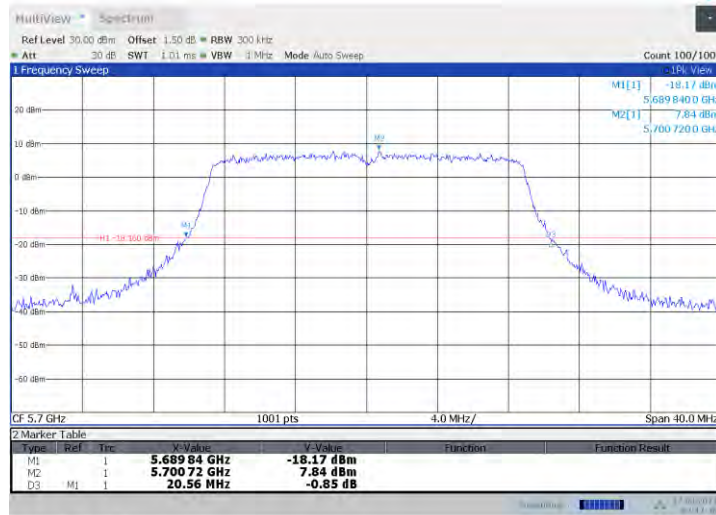
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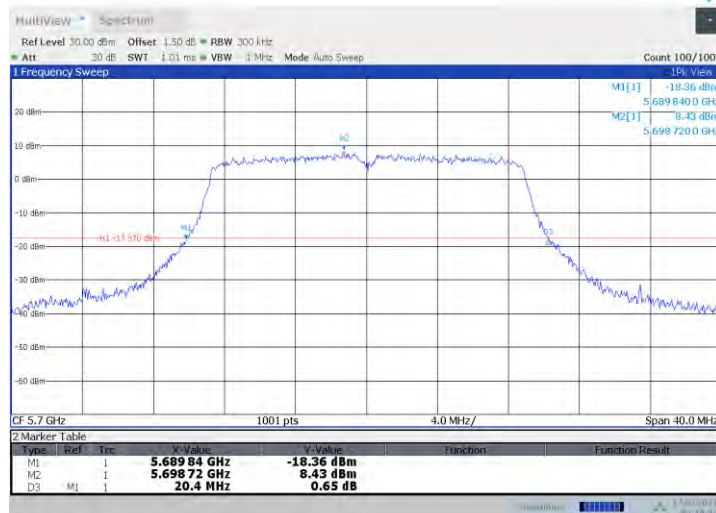
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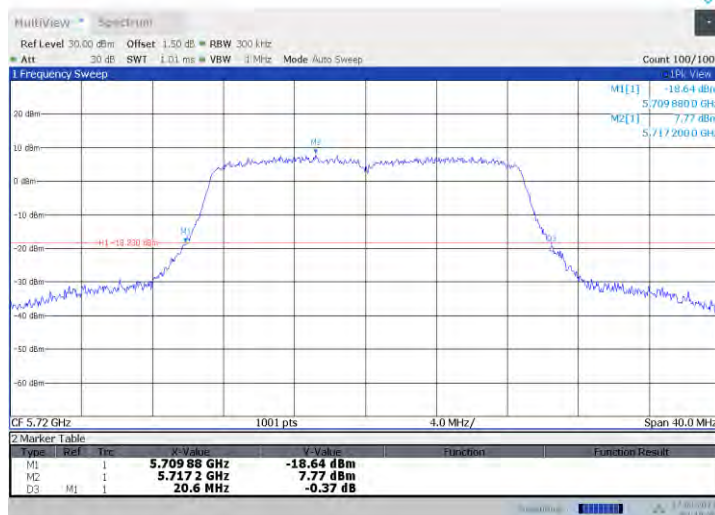
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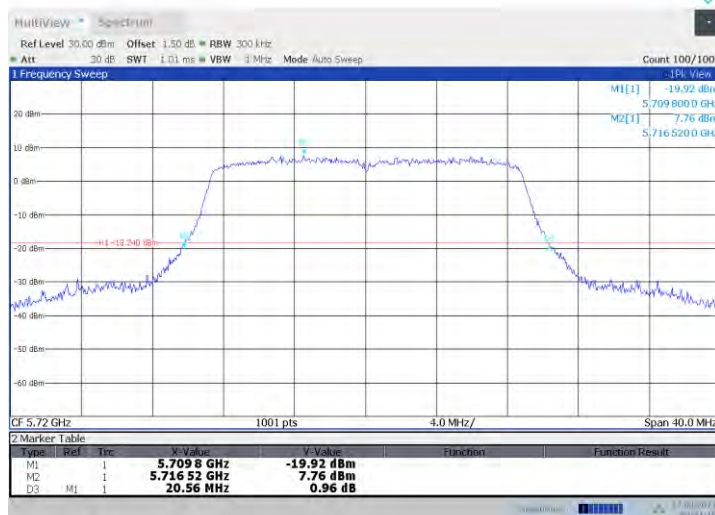
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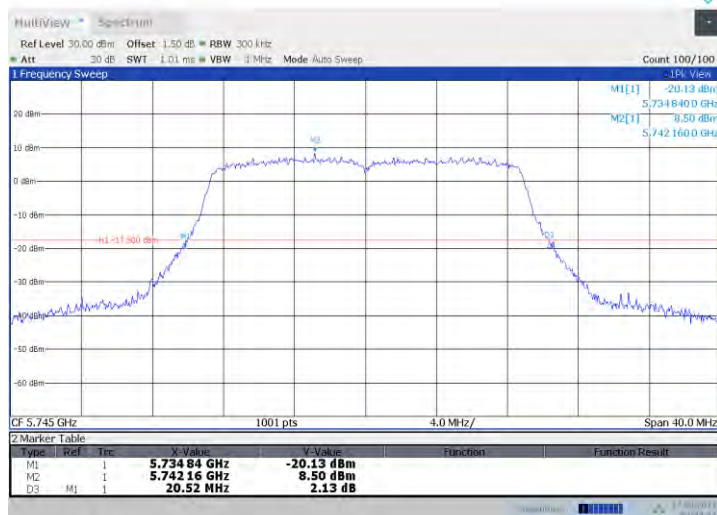
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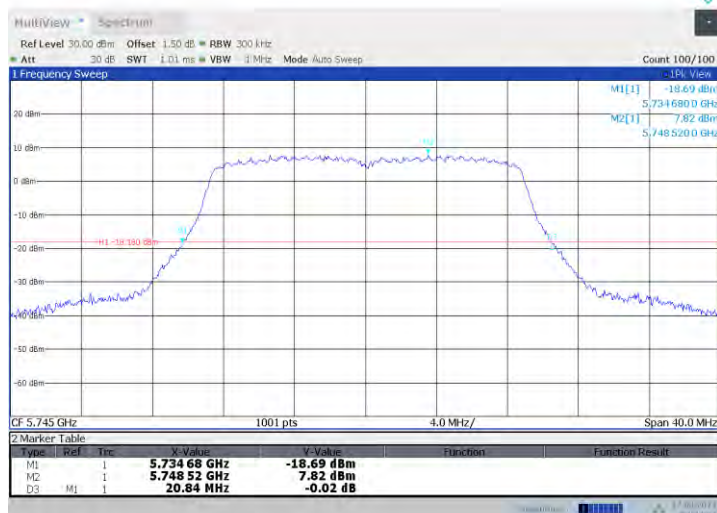
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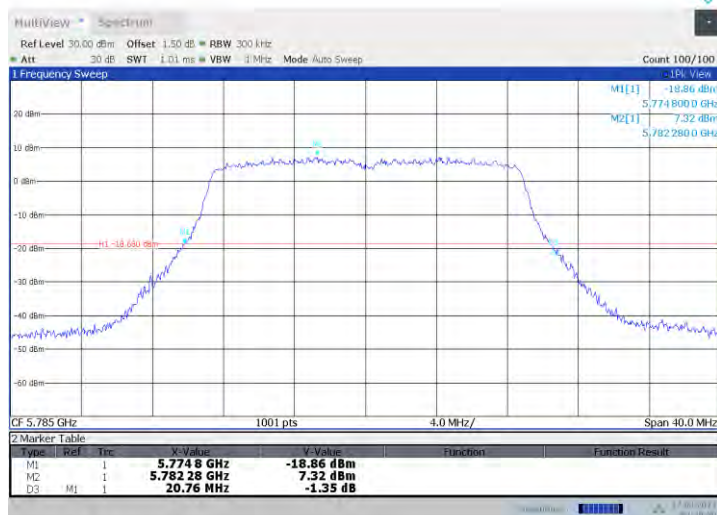
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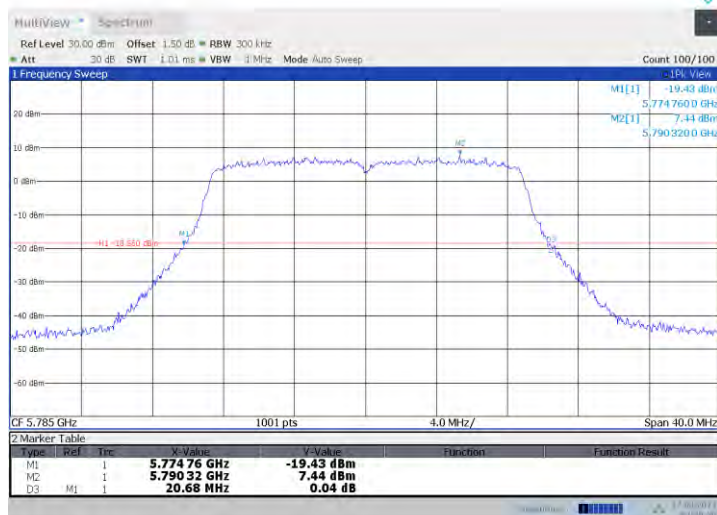
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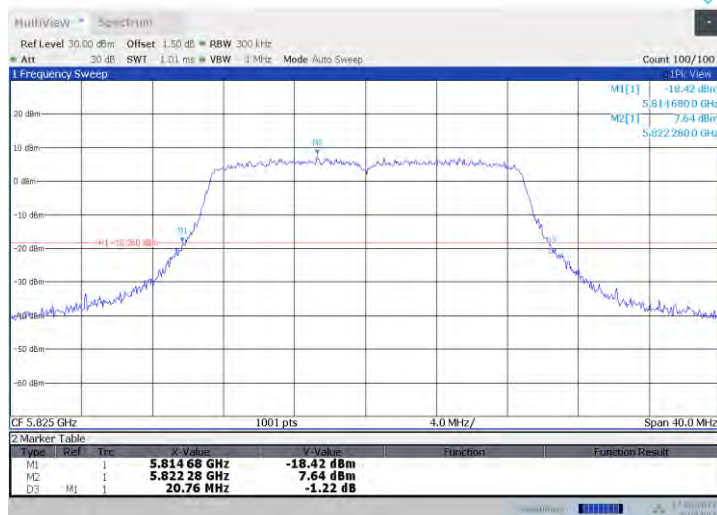
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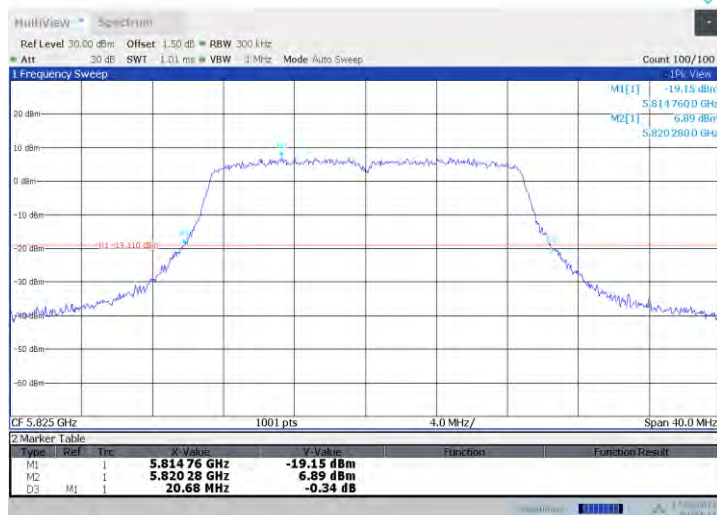
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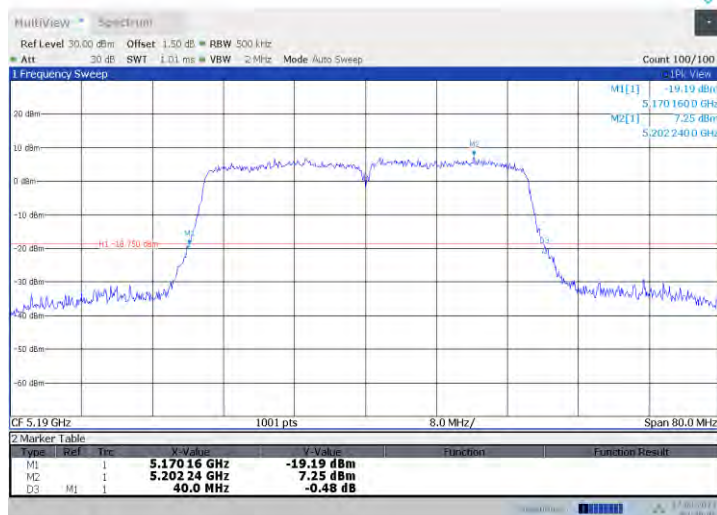
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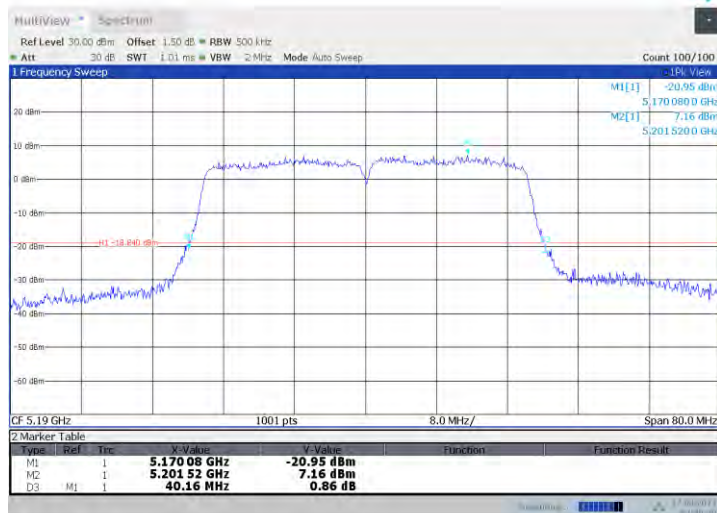
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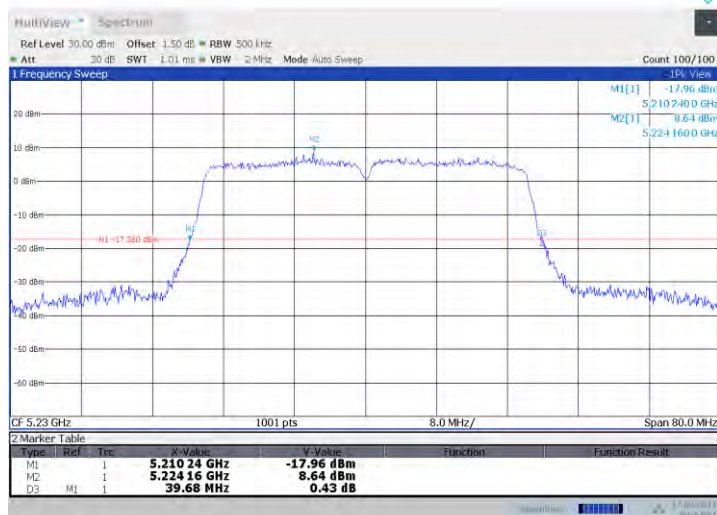
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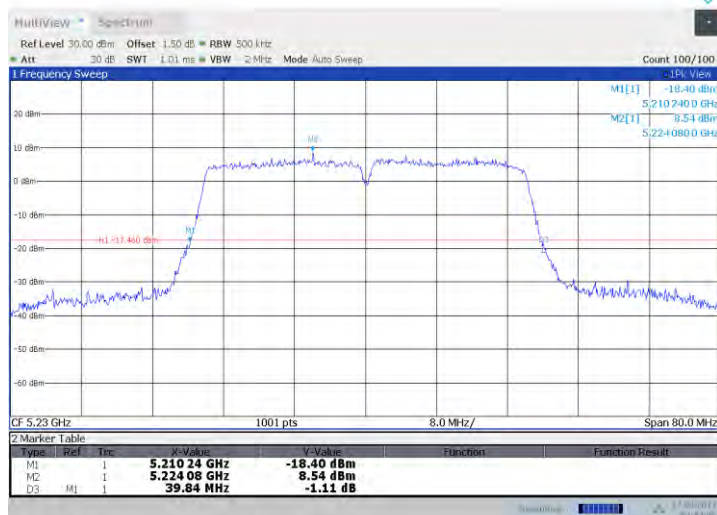
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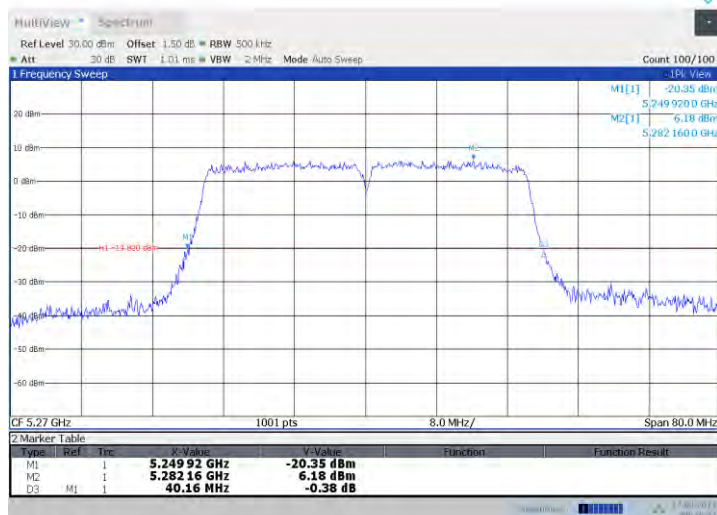
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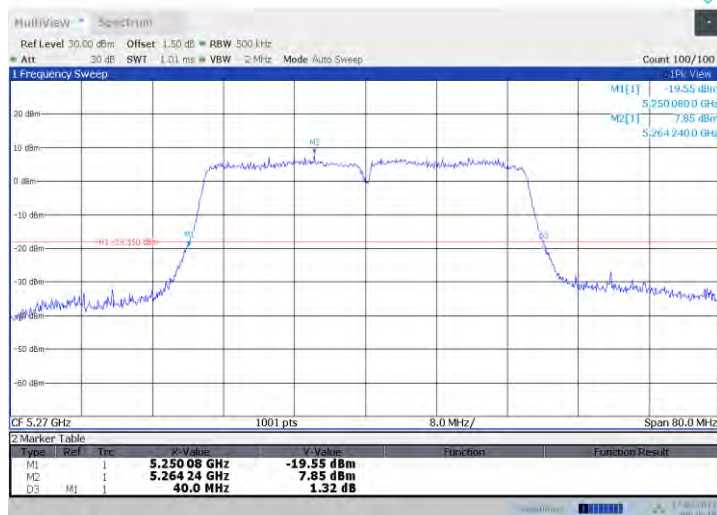
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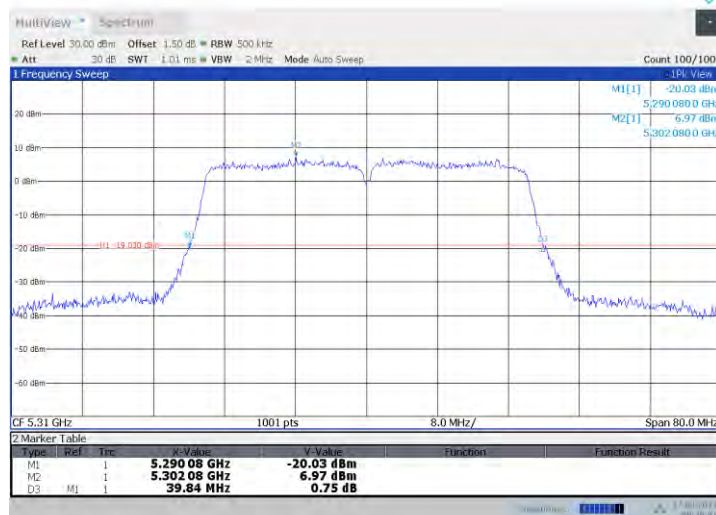
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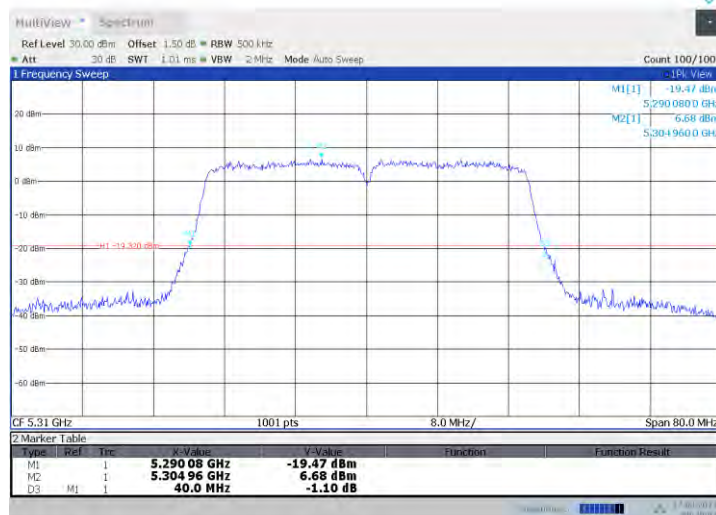
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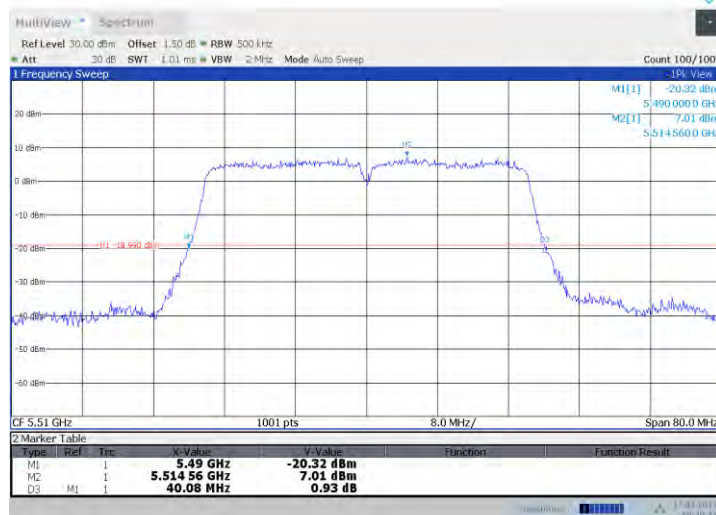


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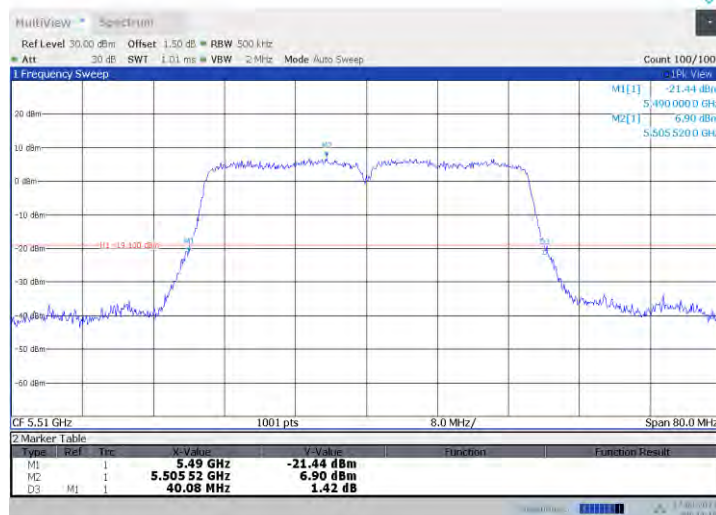
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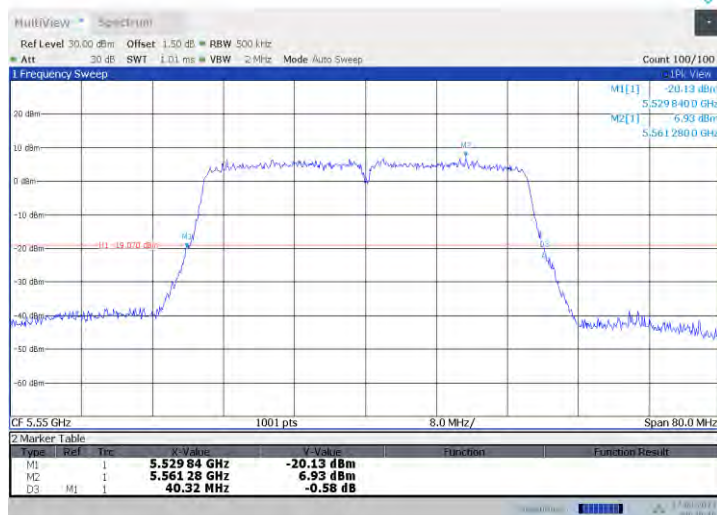
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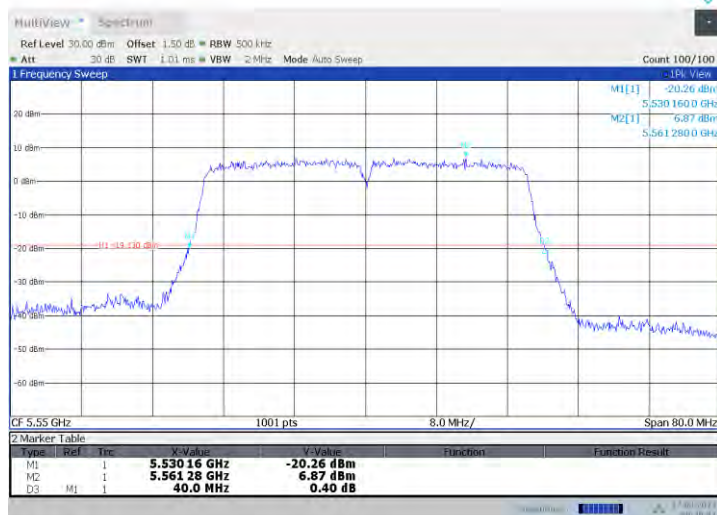
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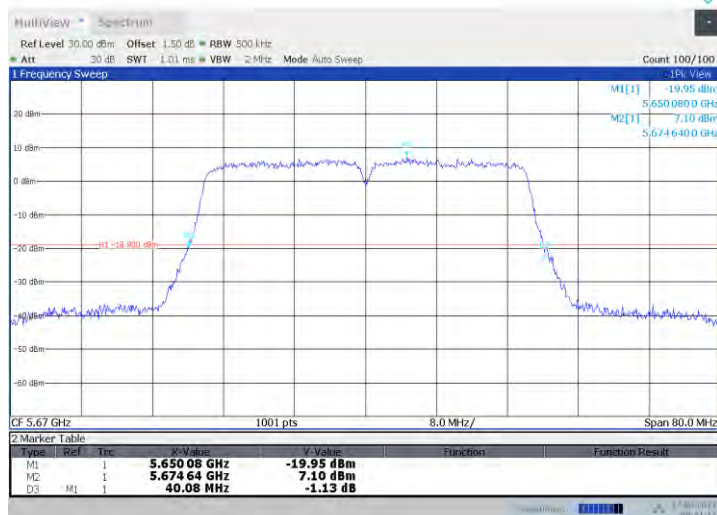
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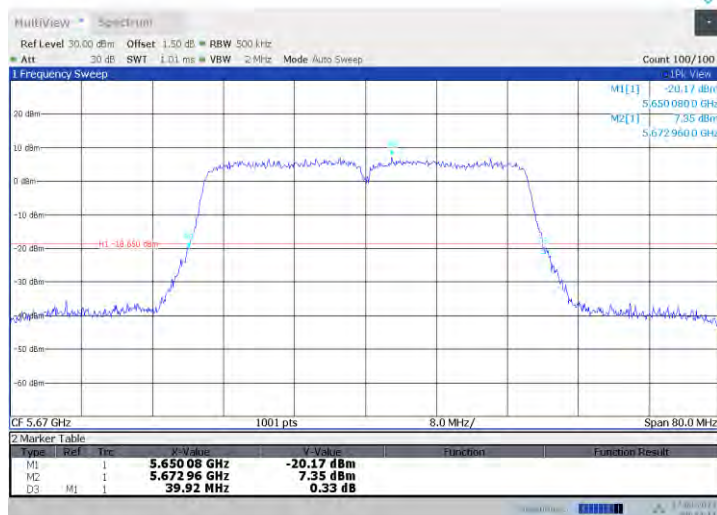
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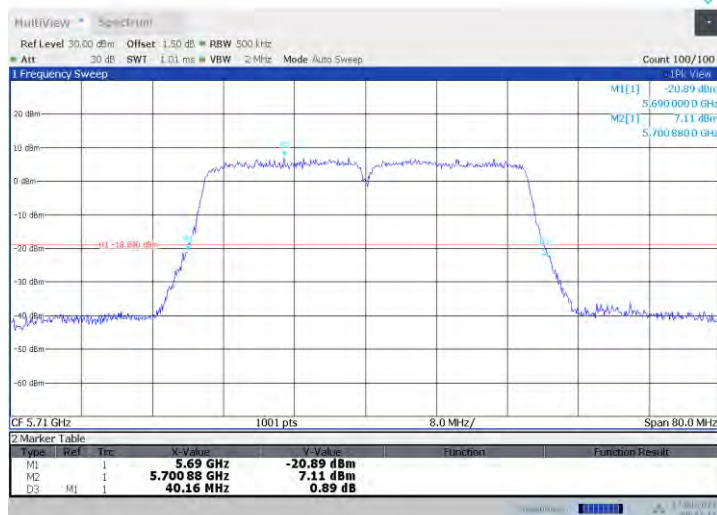
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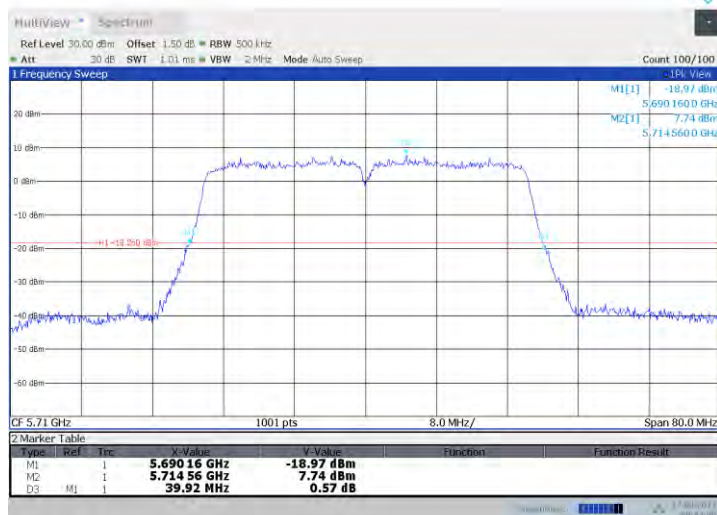
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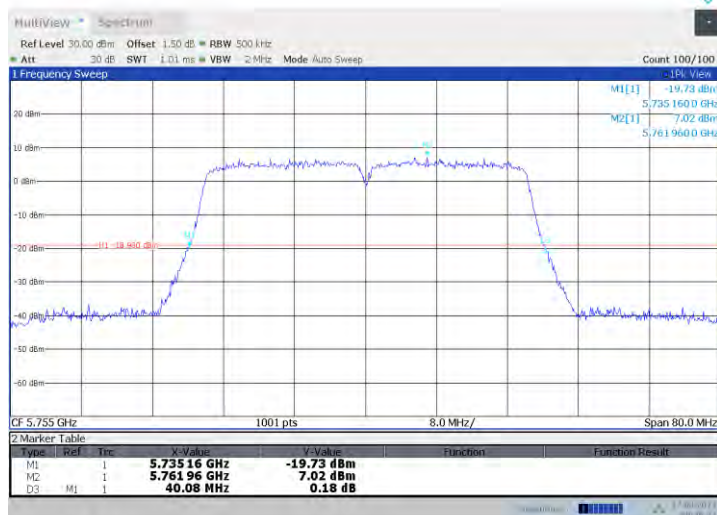
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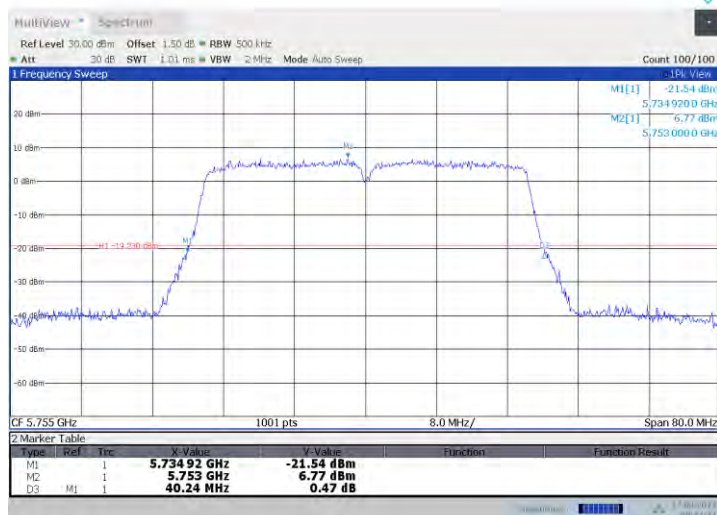
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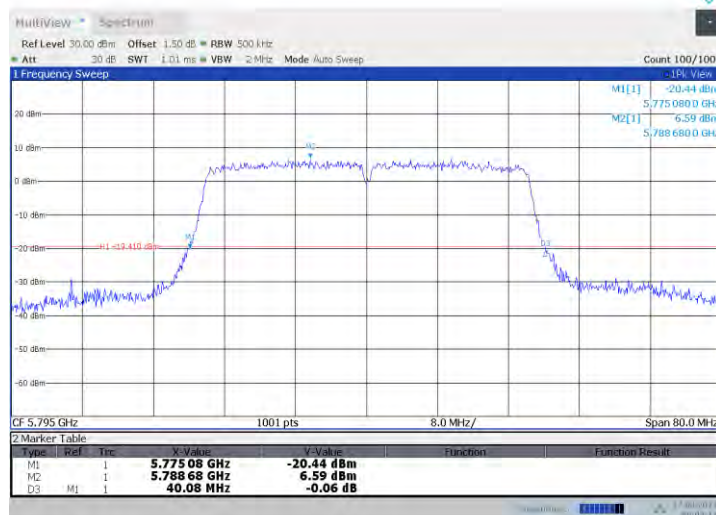
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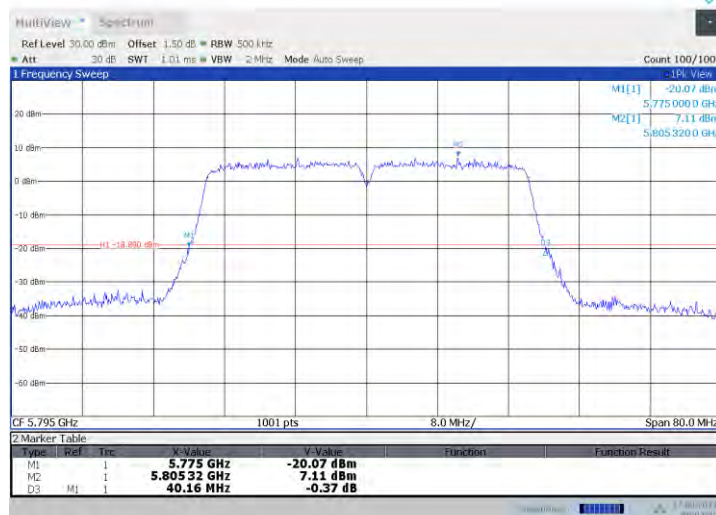
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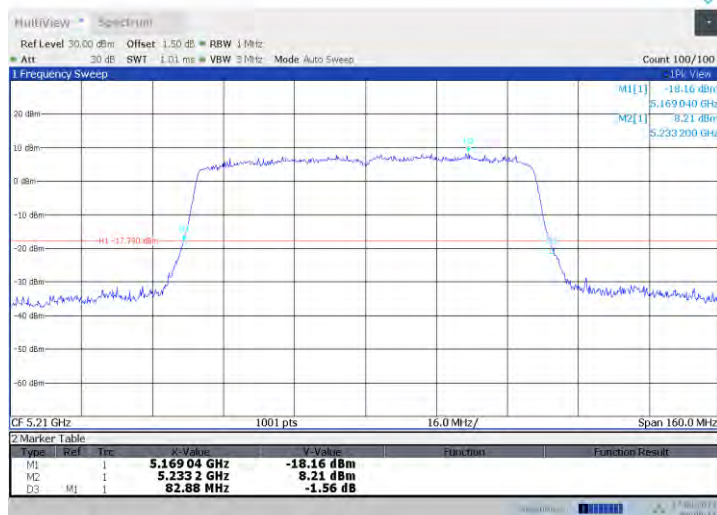
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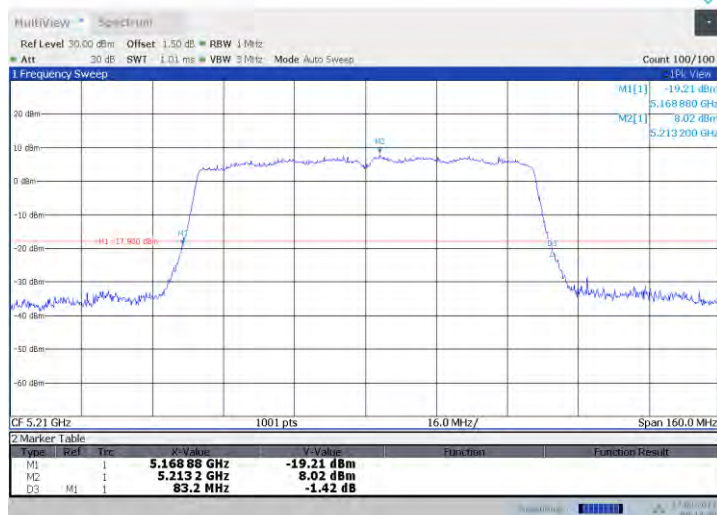
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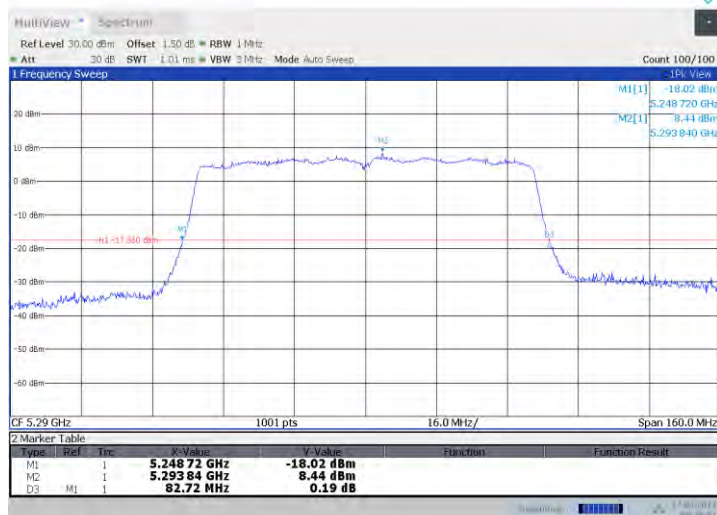
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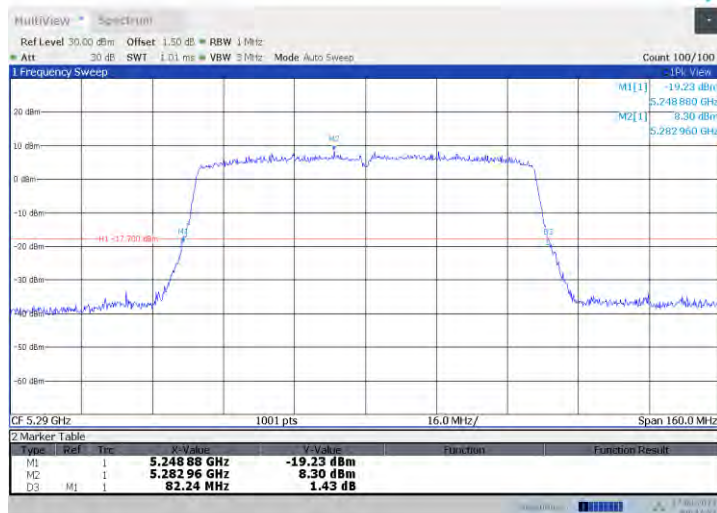
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09:37:53 17.04.2023



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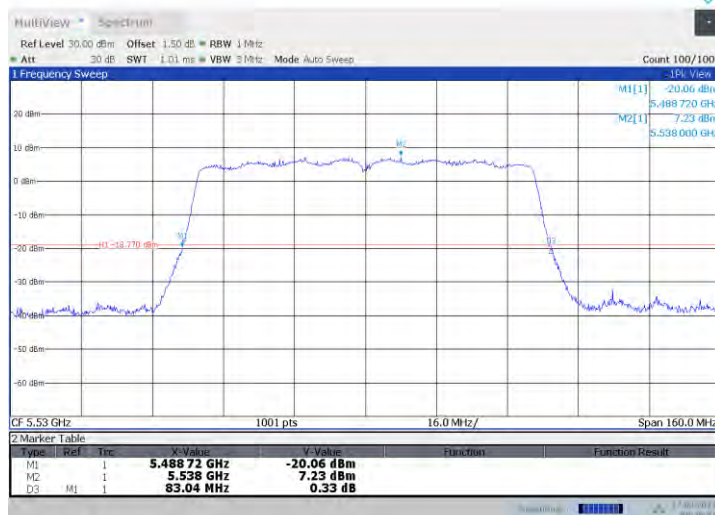
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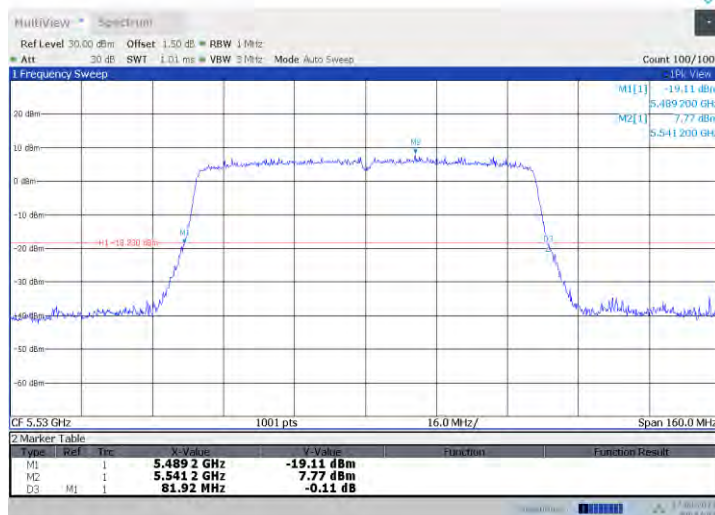
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09:47:03 17.04.2023



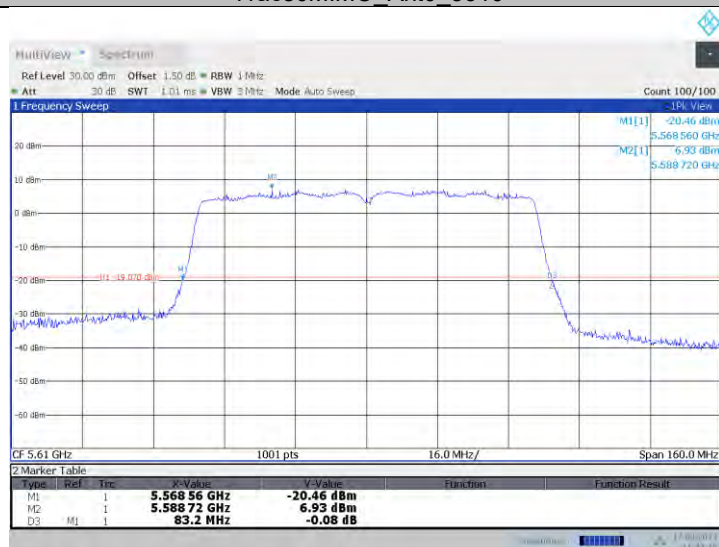
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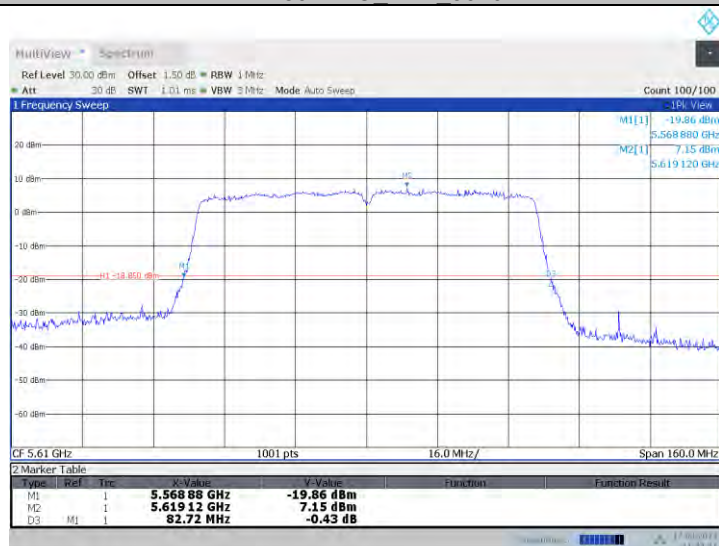
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11:32:47 17.04.2023

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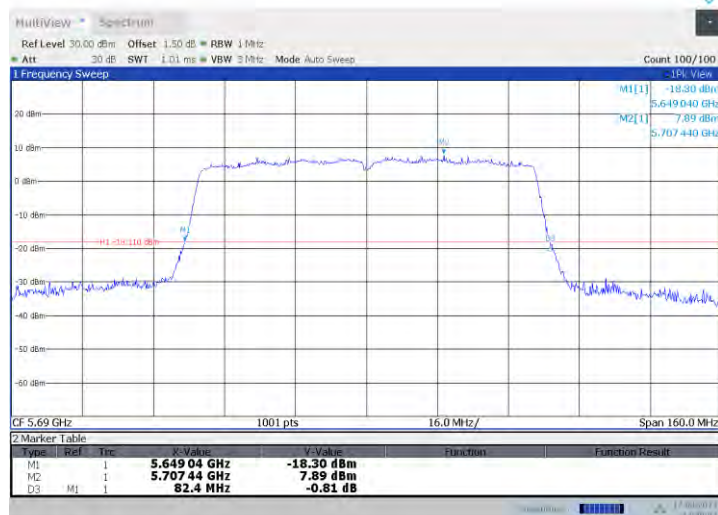
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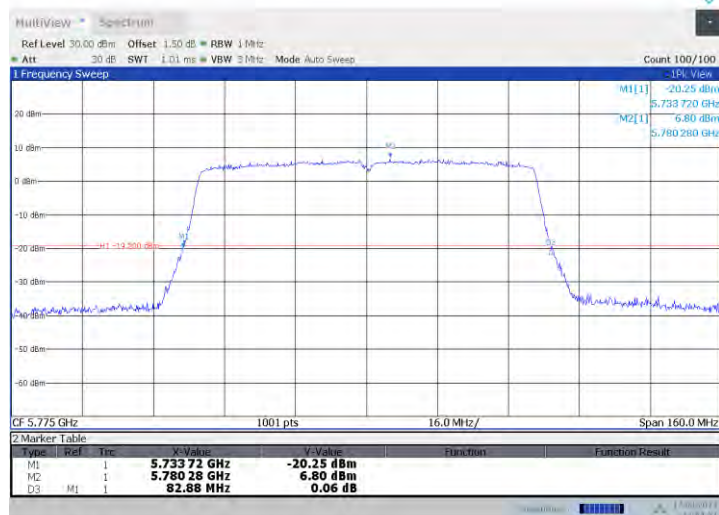
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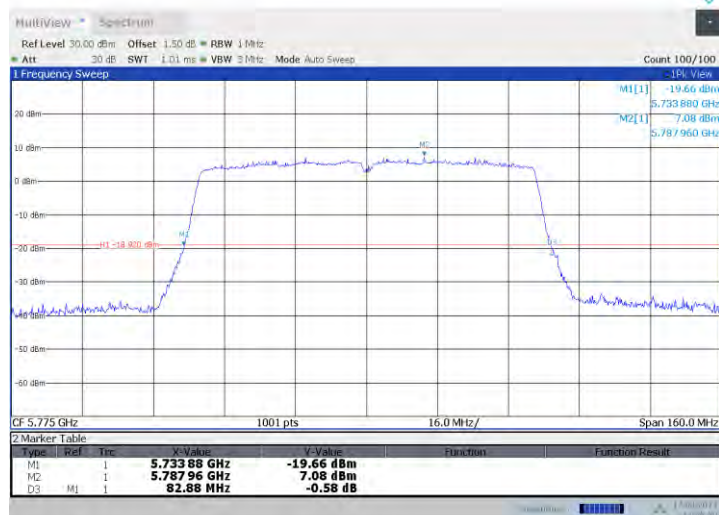
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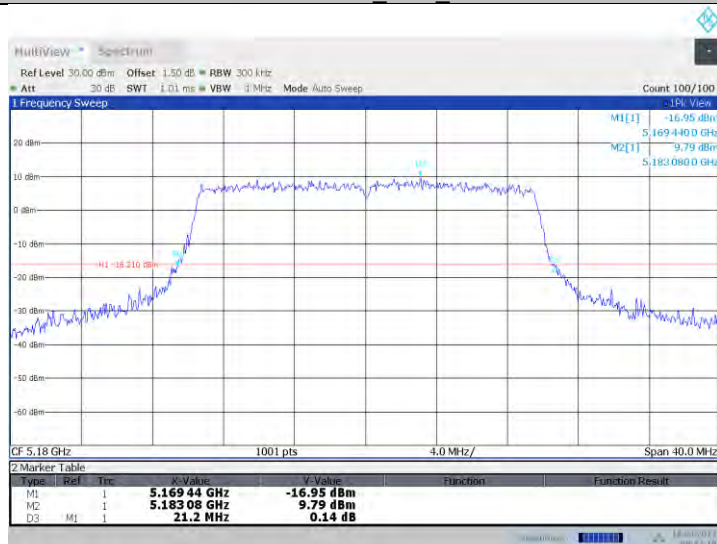
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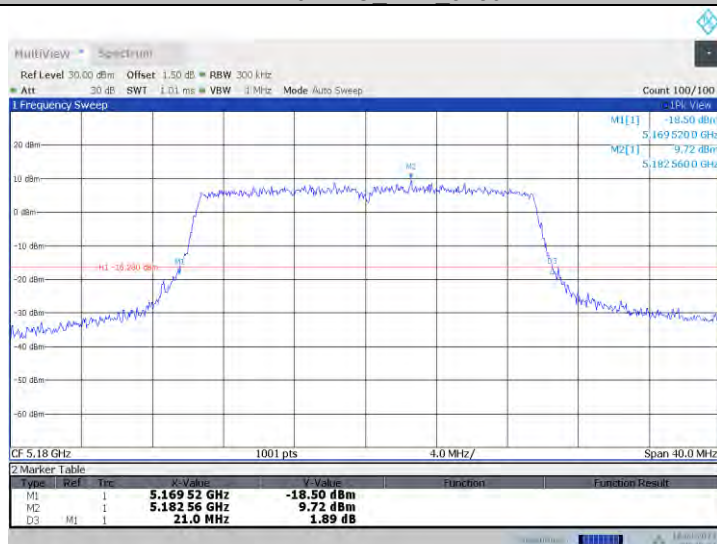
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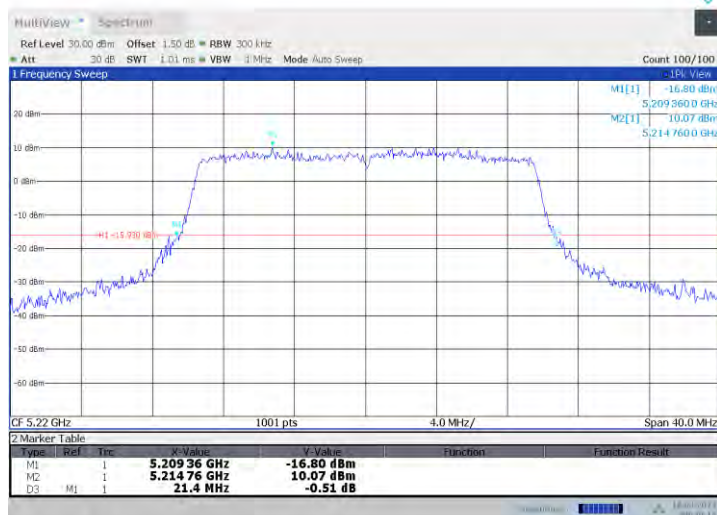
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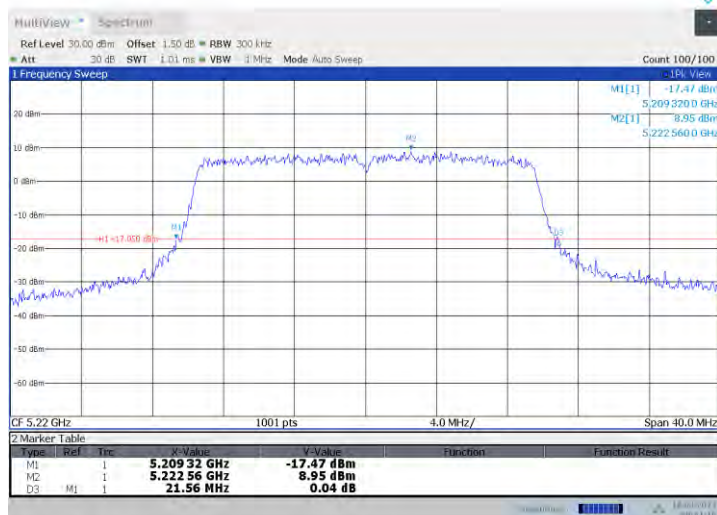
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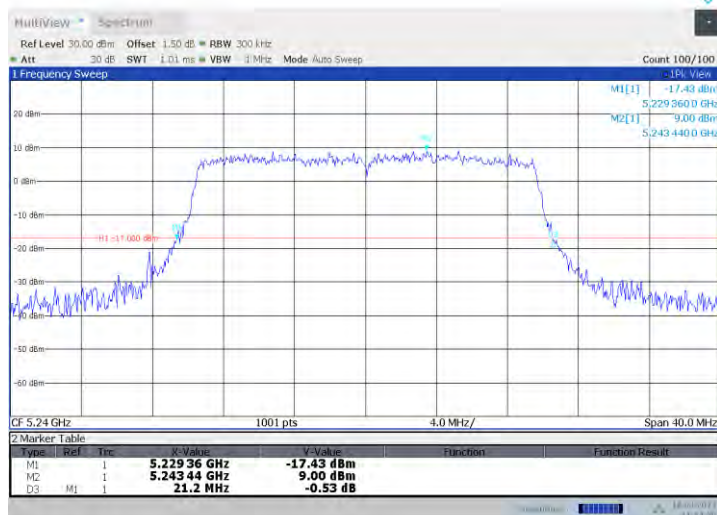
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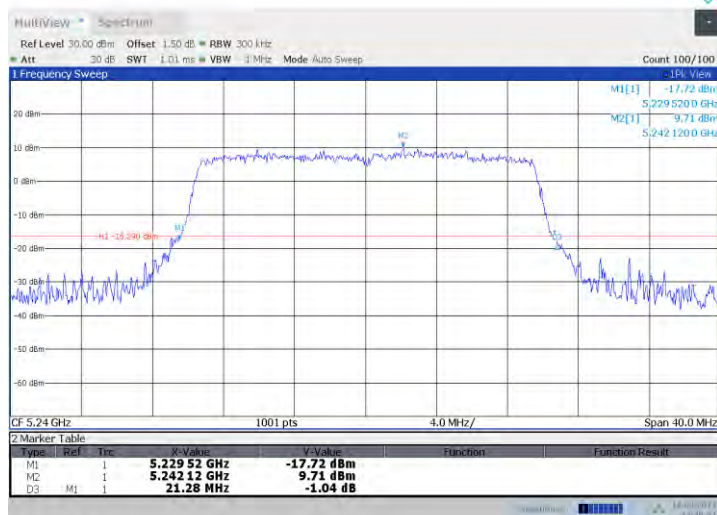
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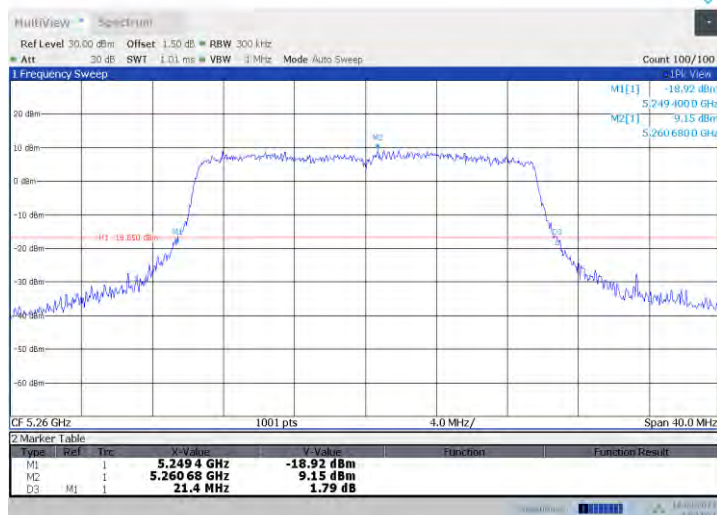
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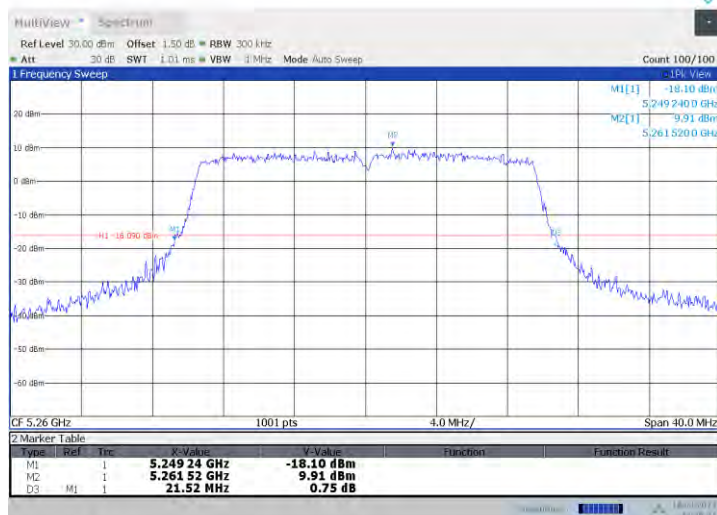
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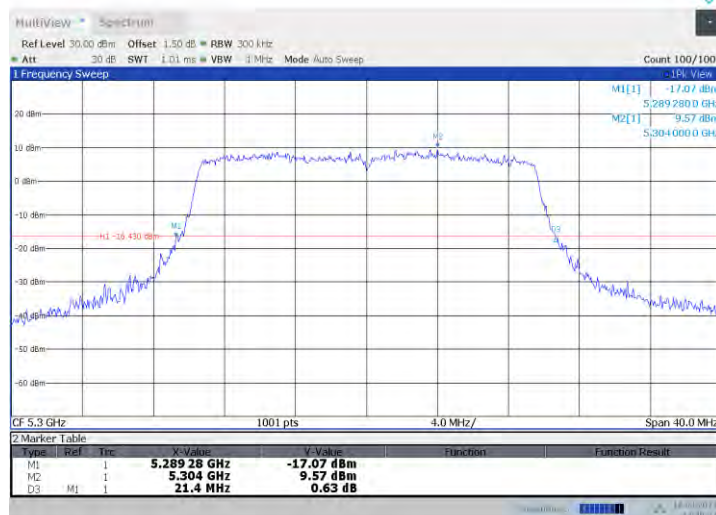
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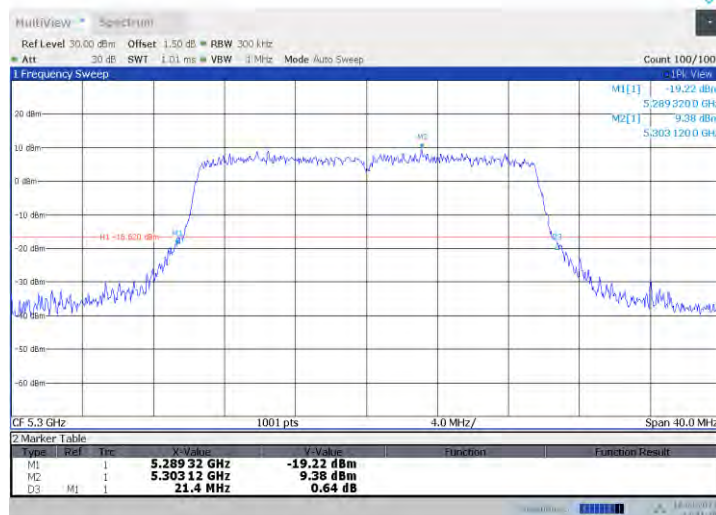
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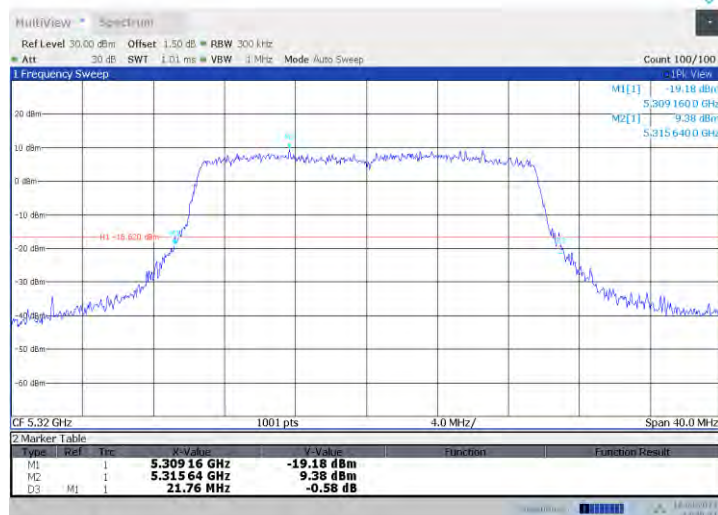
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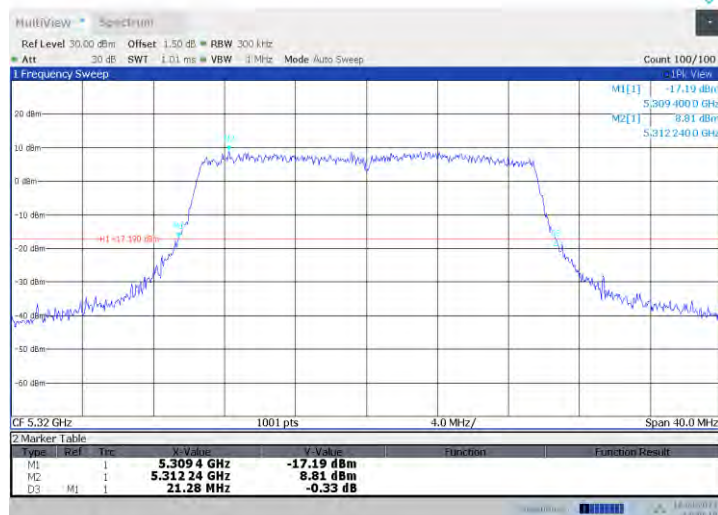
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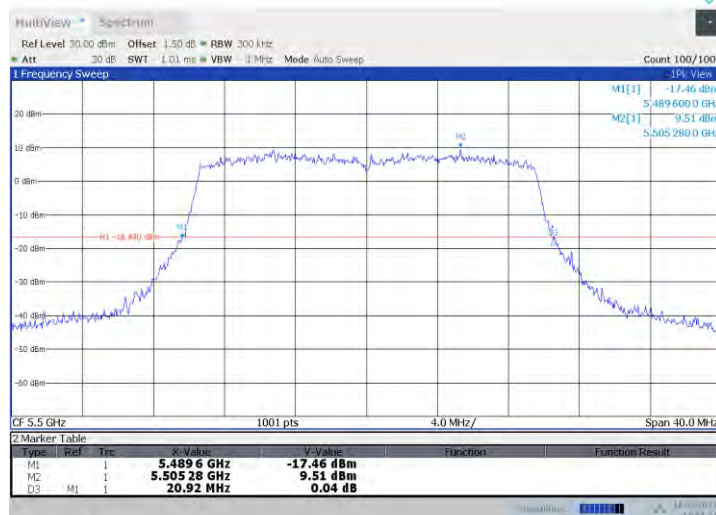
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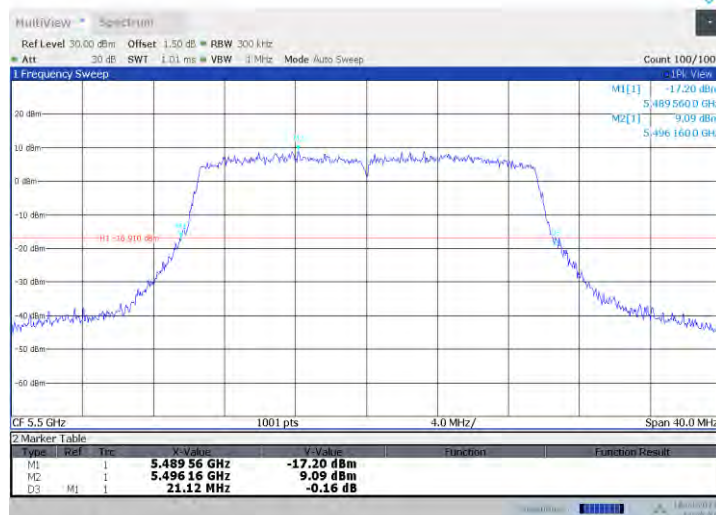
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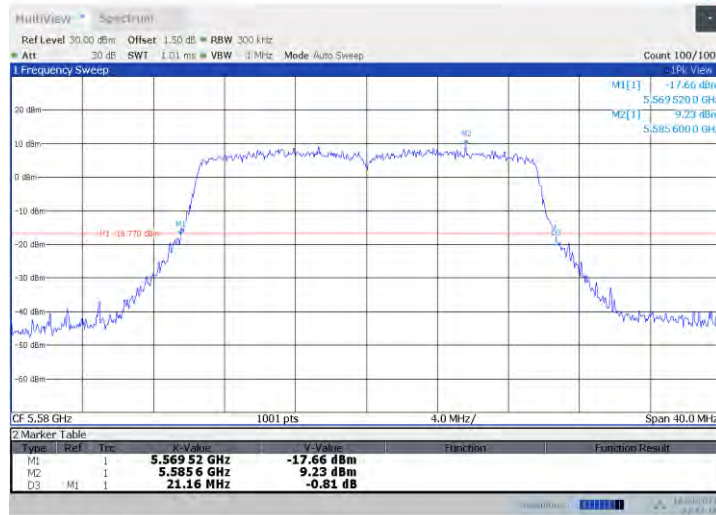
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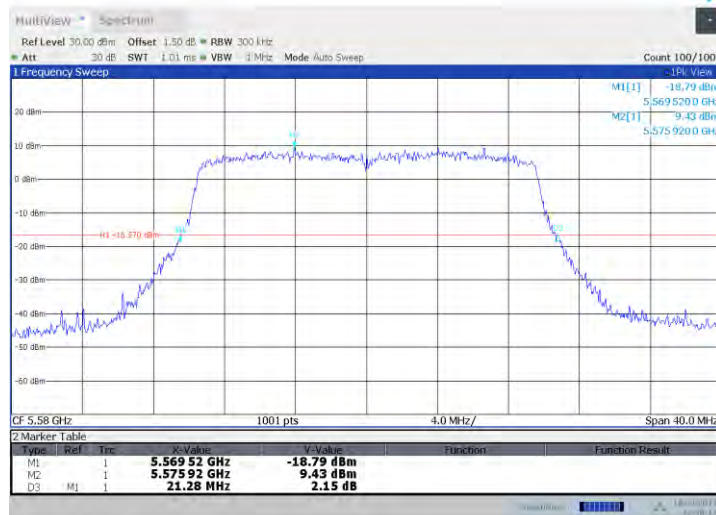
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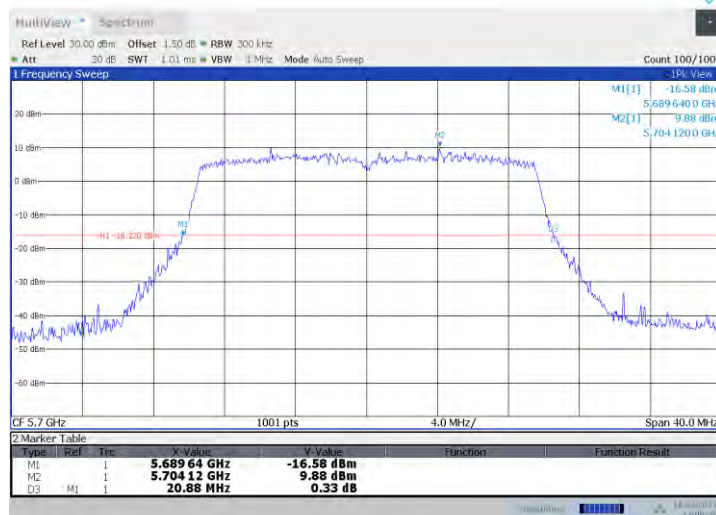
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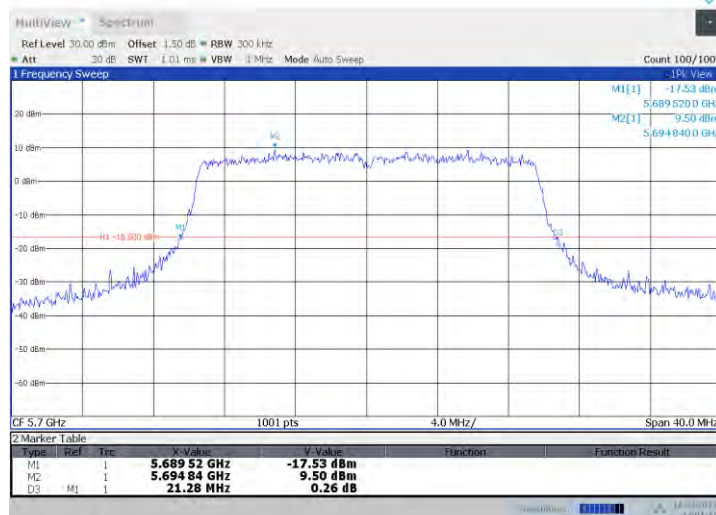
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13:00:37 18.04.2023

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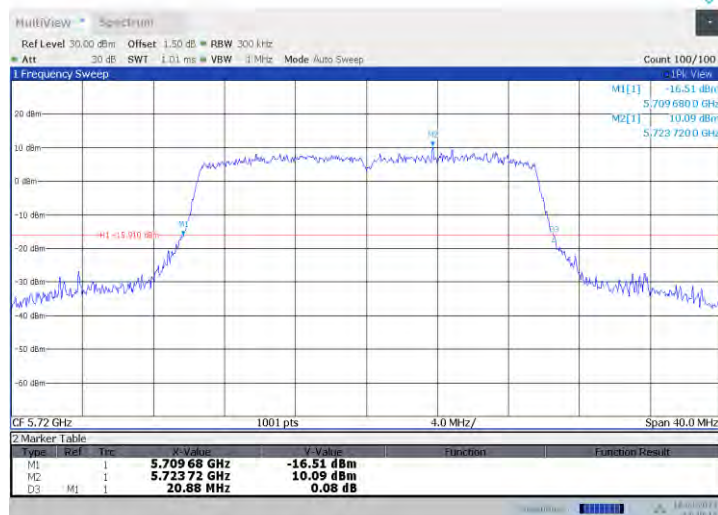
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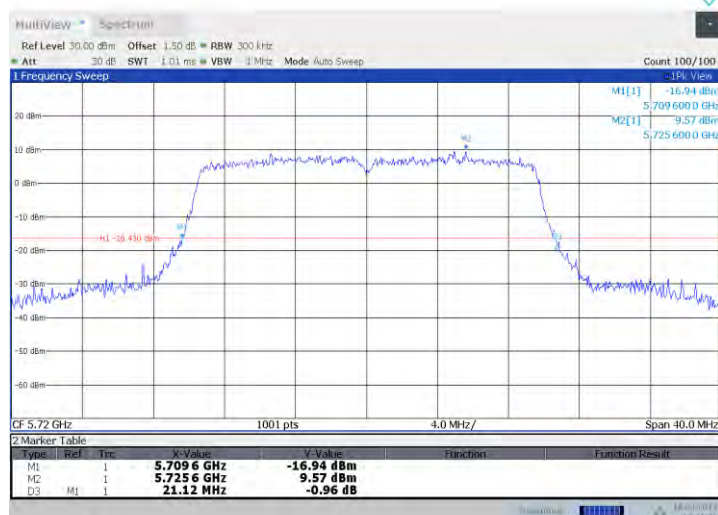
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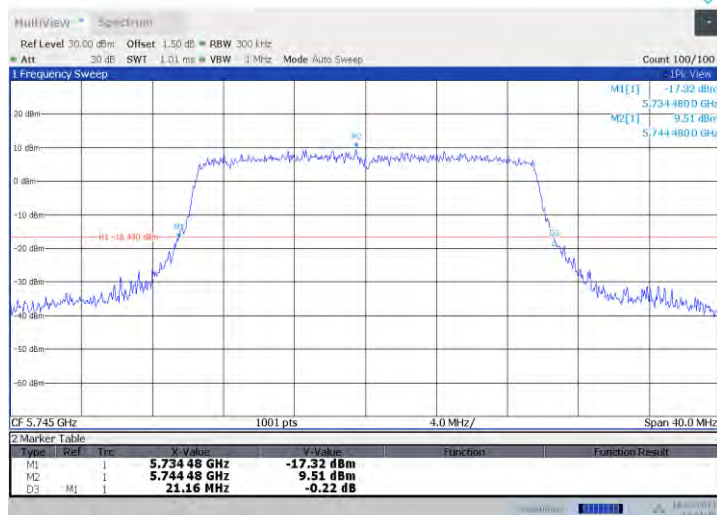
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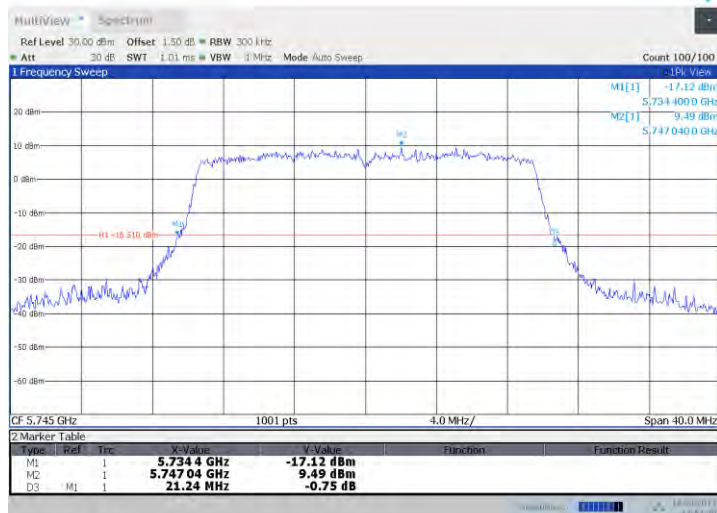
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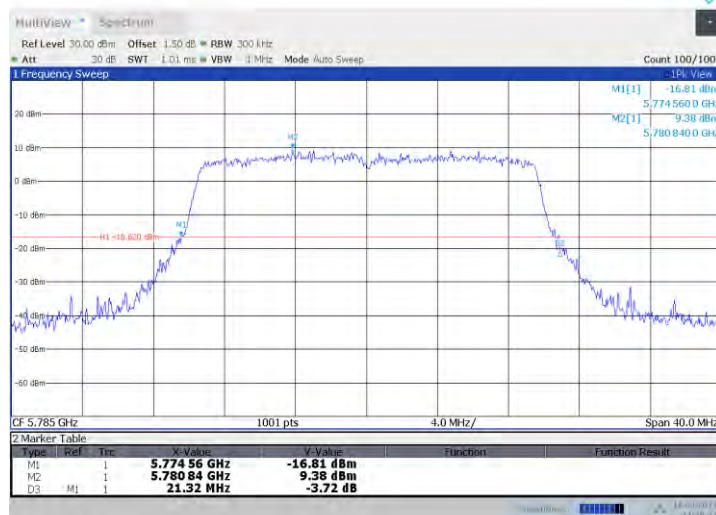
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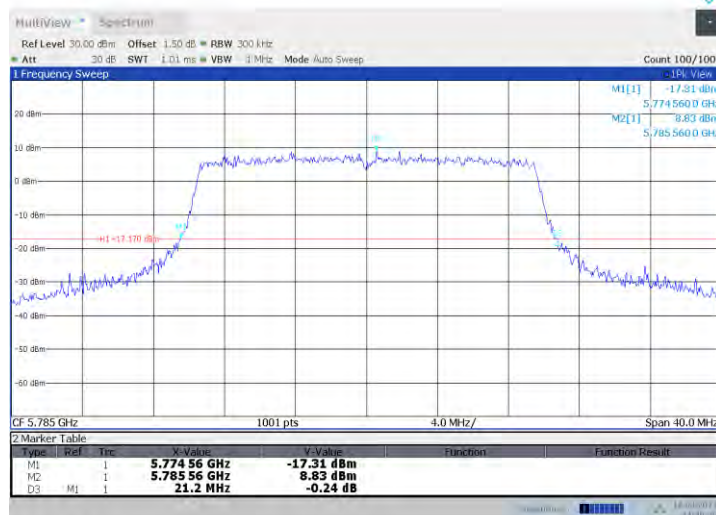
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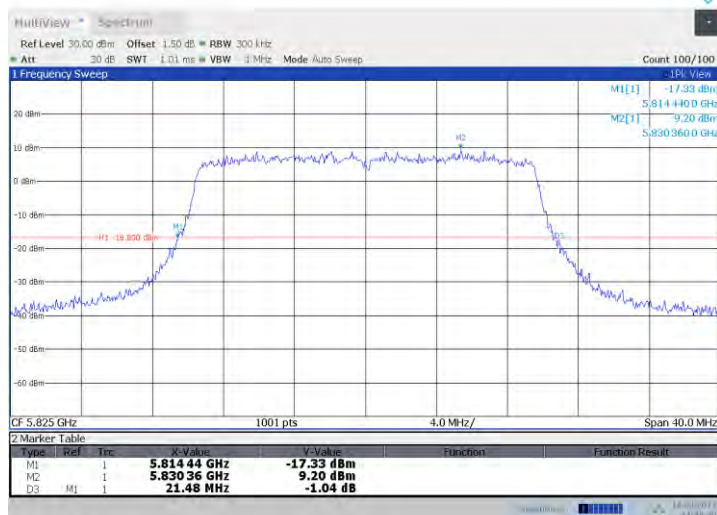
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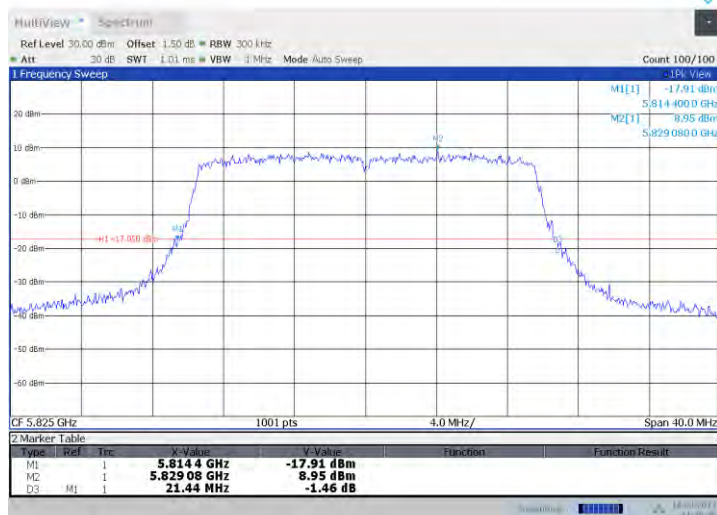
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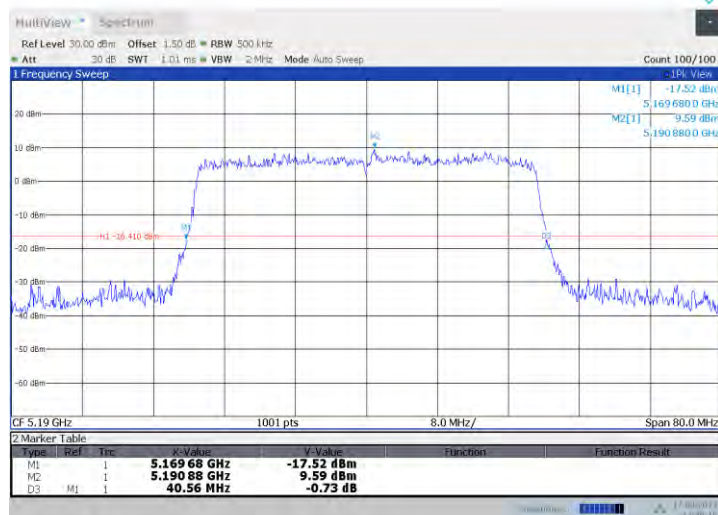
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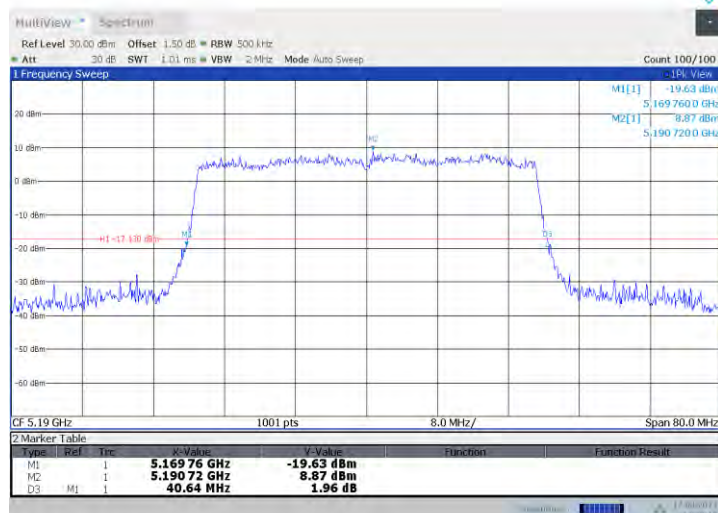
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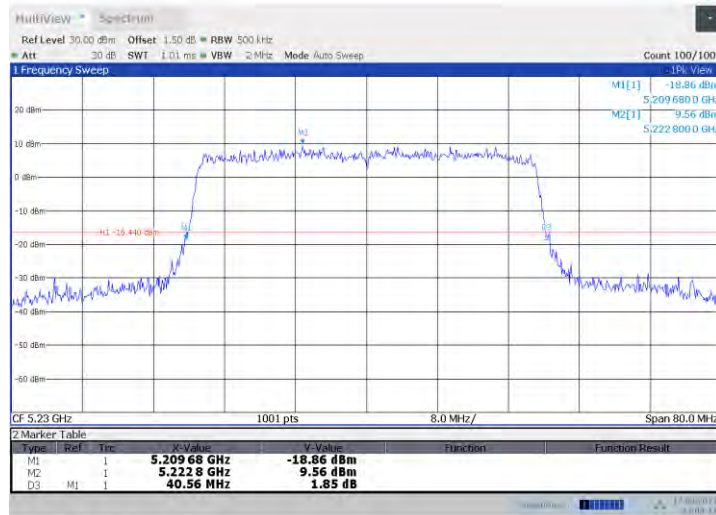
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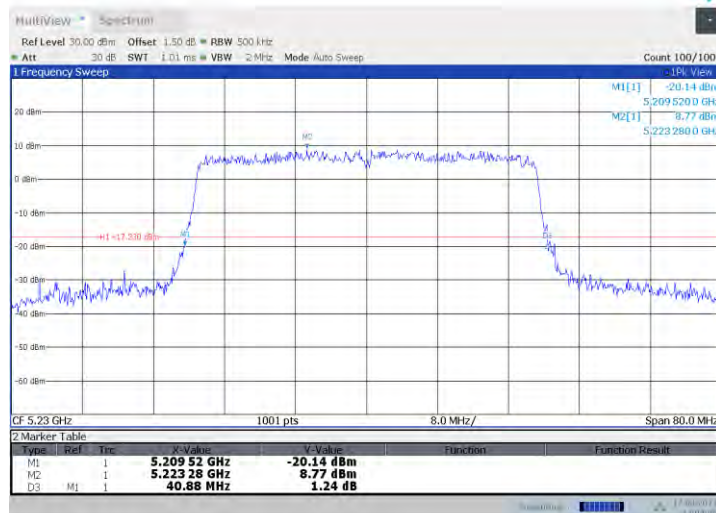
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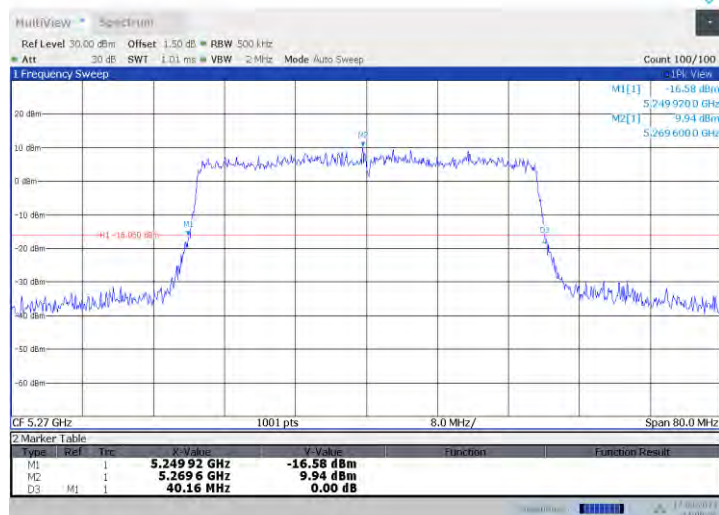
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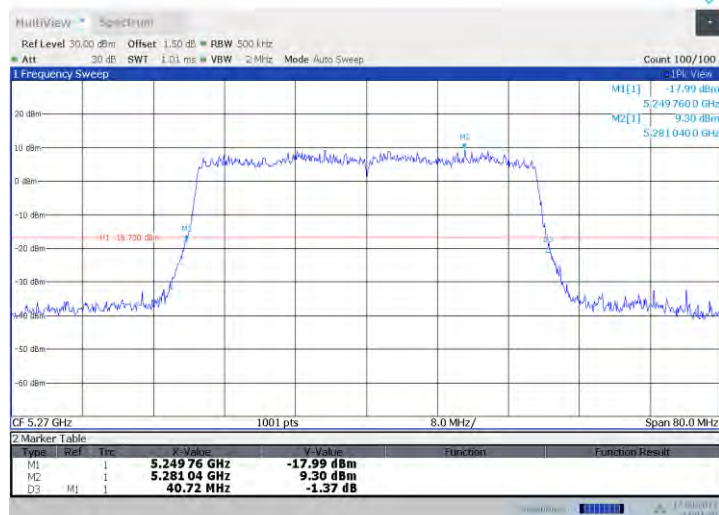
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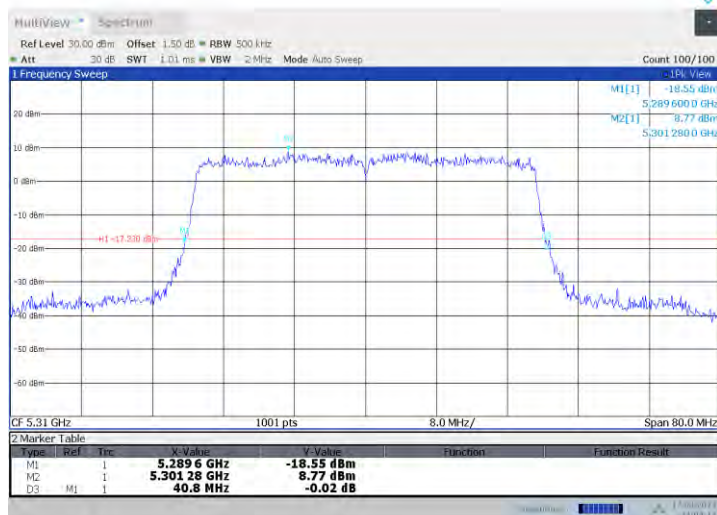
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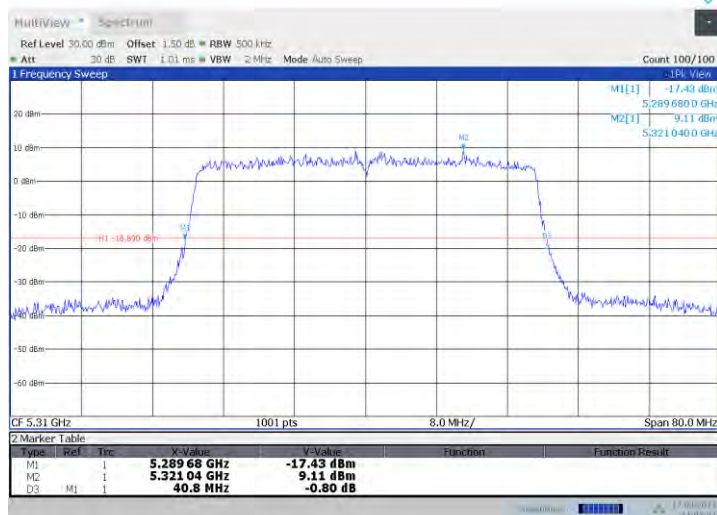
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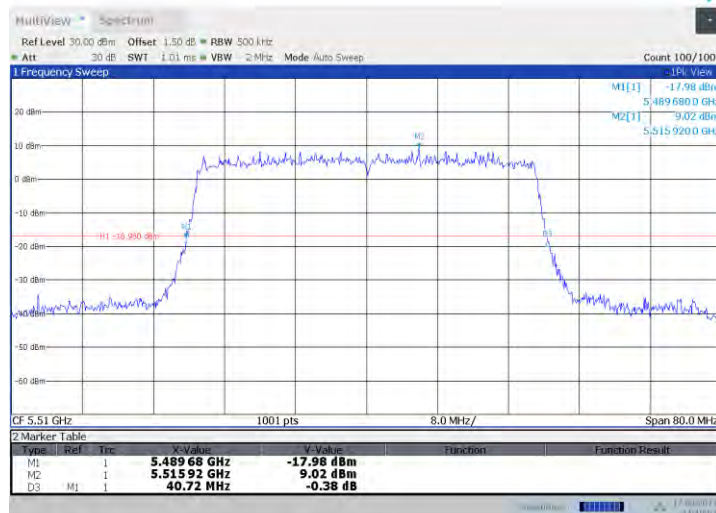
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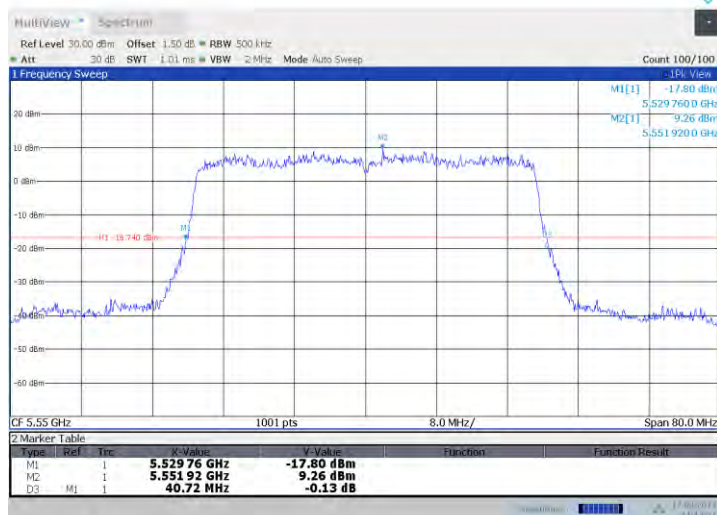
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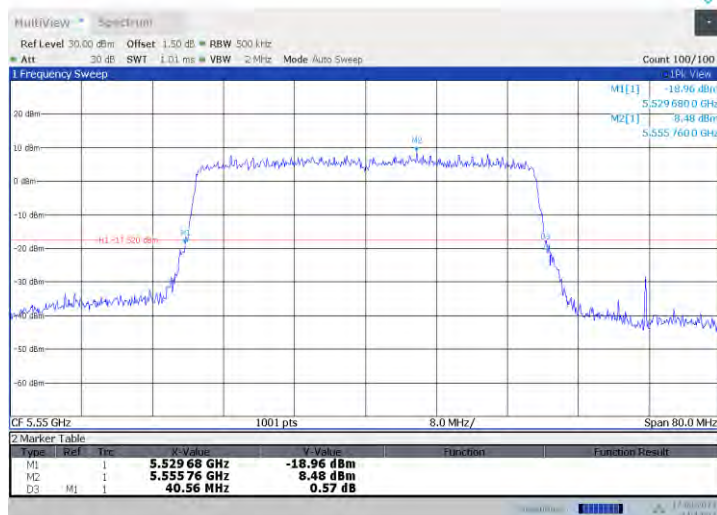
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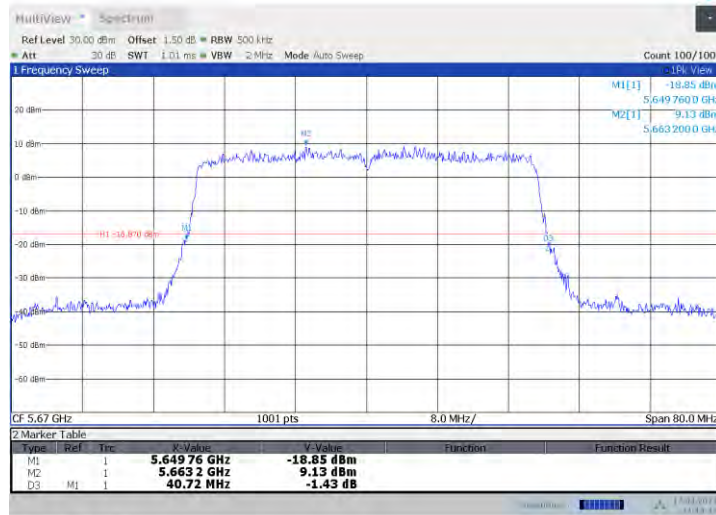
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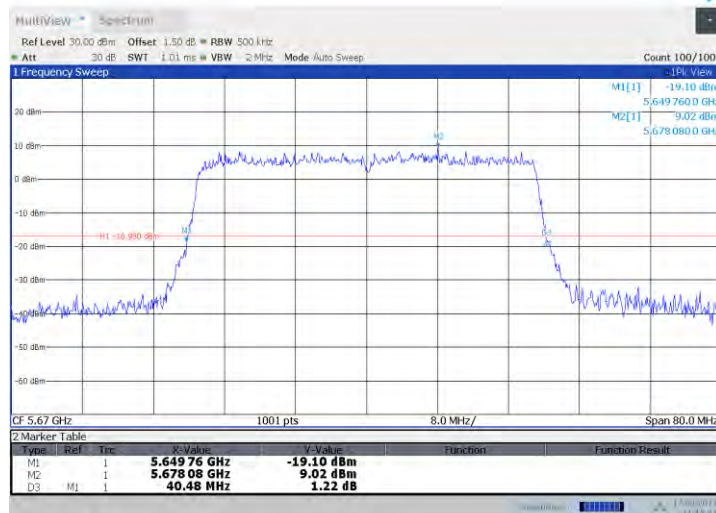
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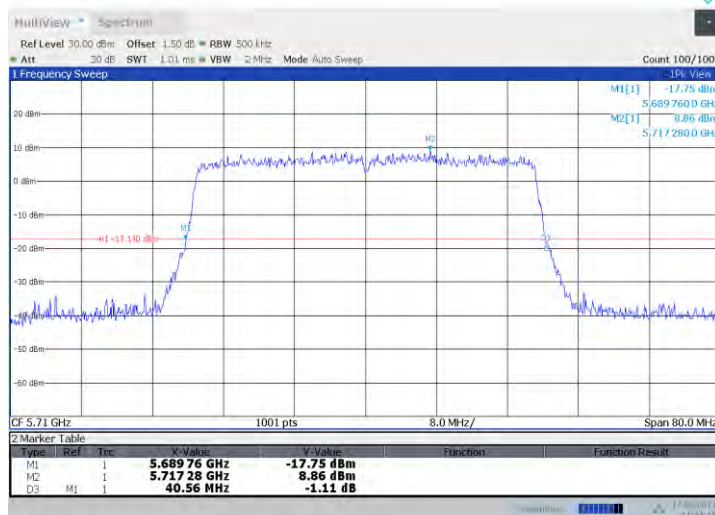
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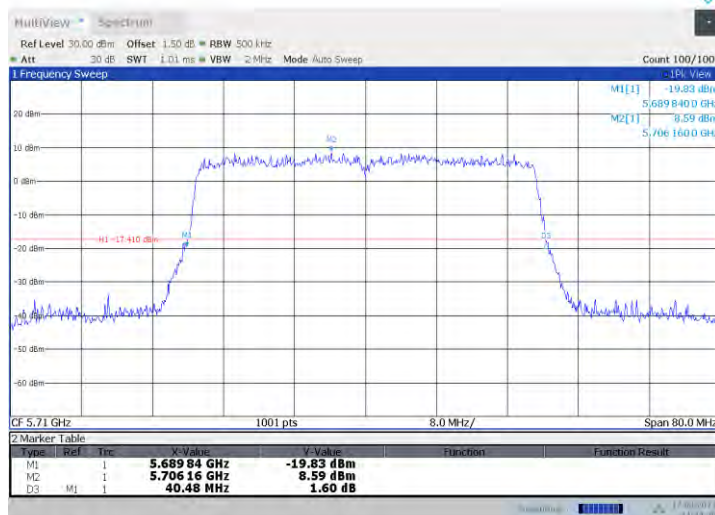
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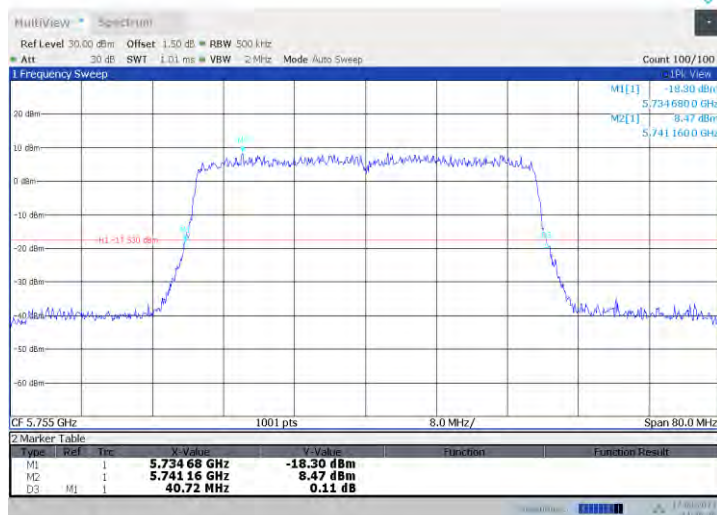
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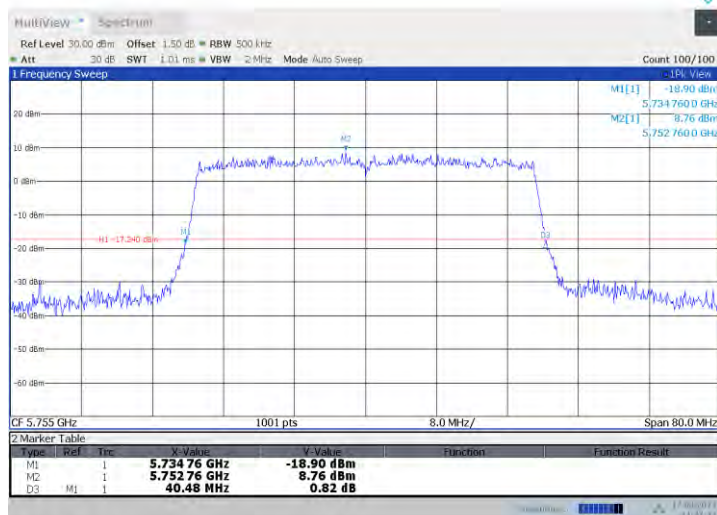
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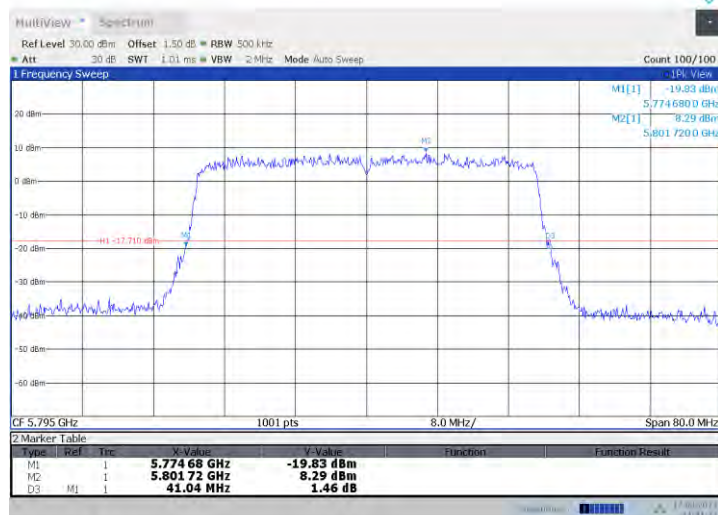
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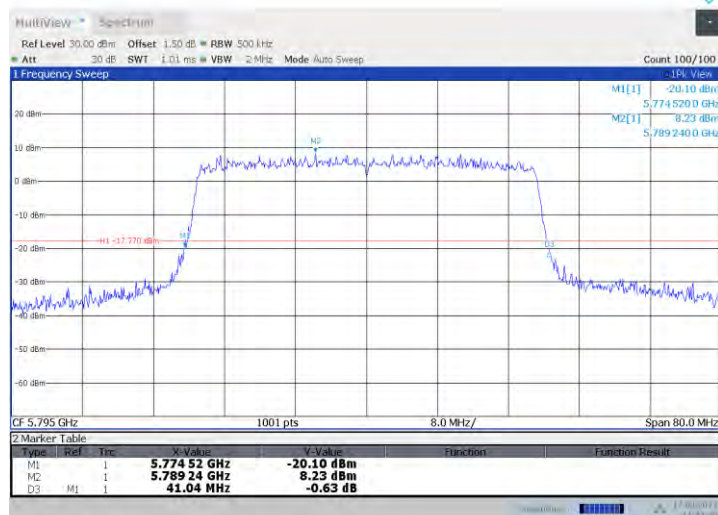
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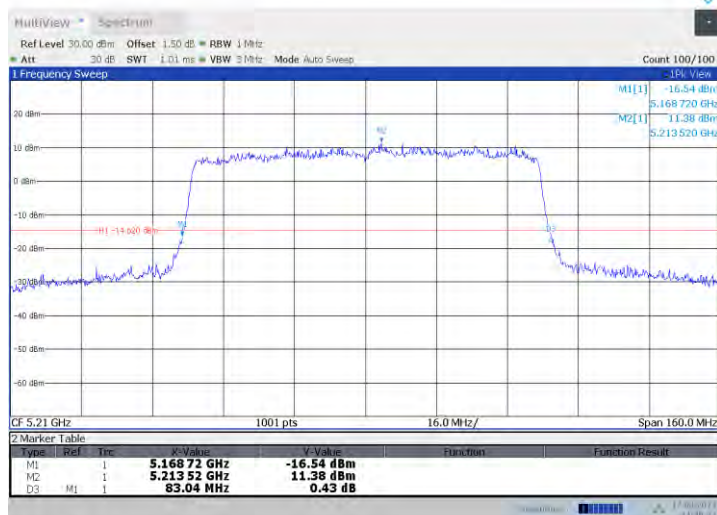
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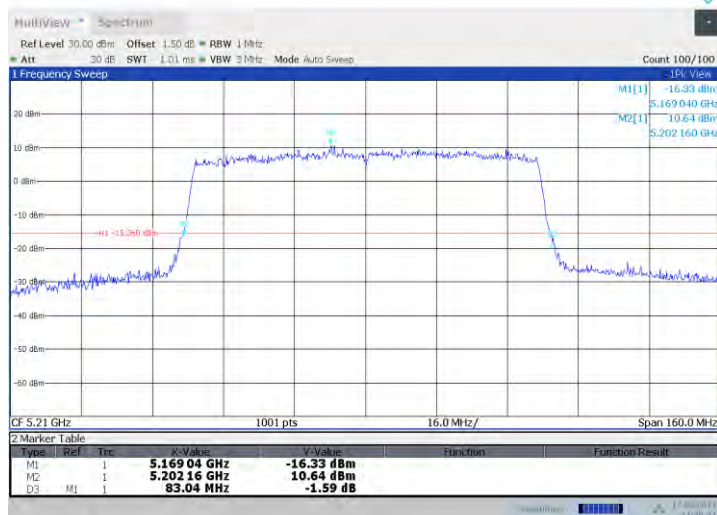
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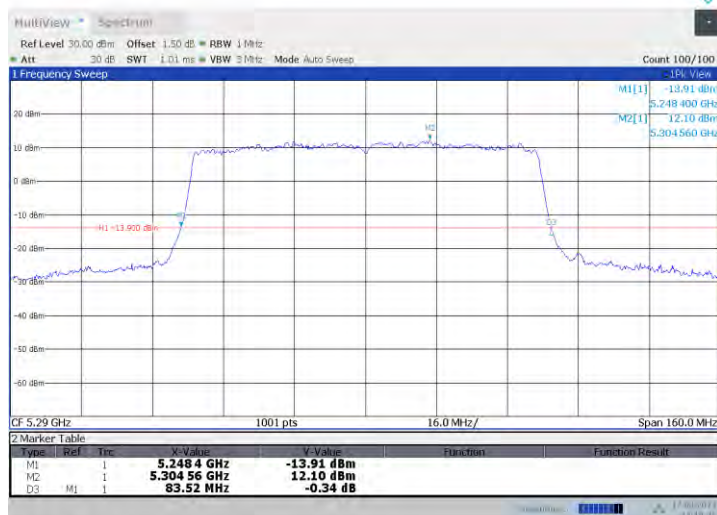
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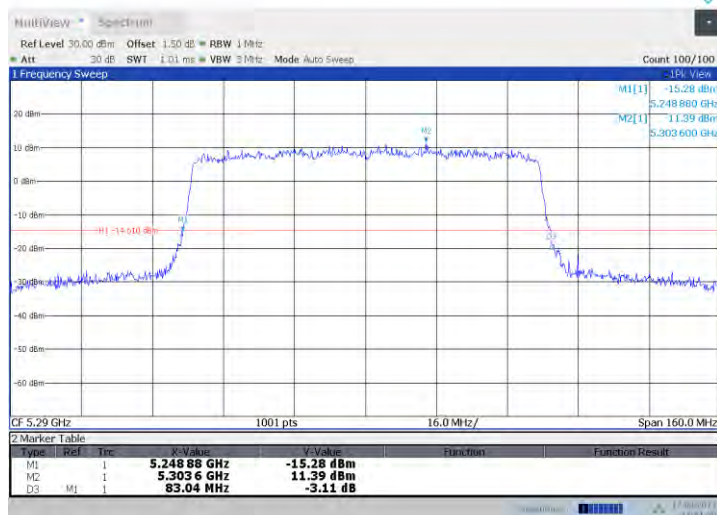
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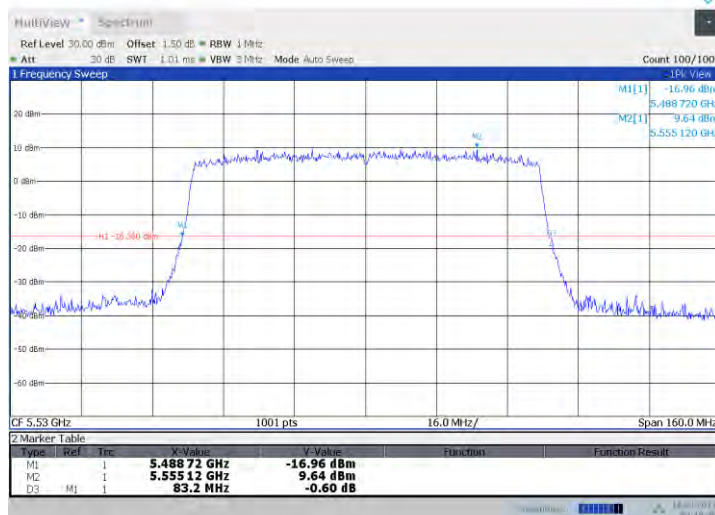
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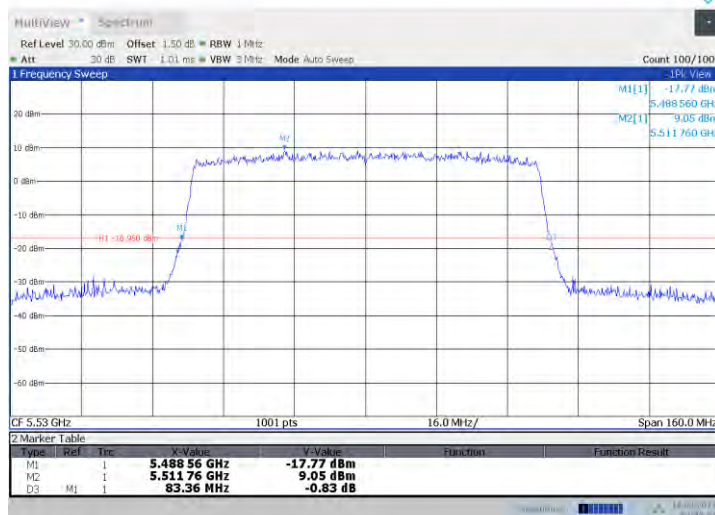
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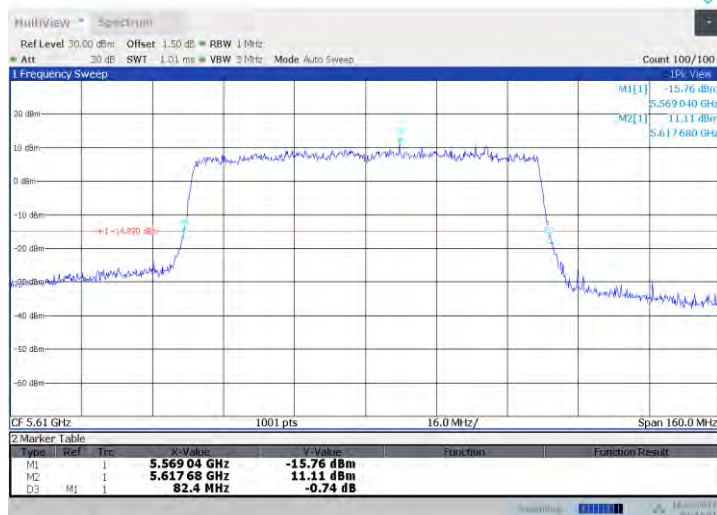
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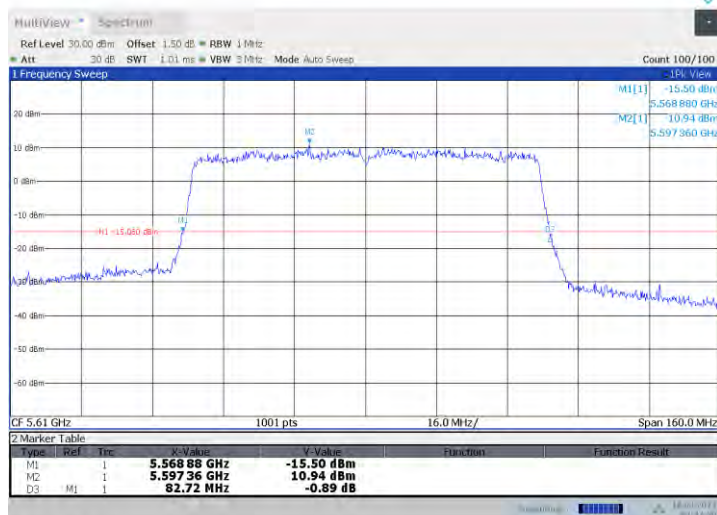
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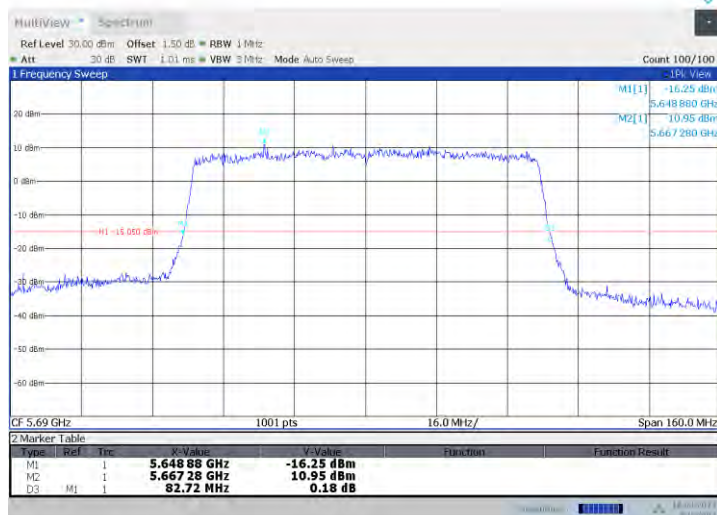
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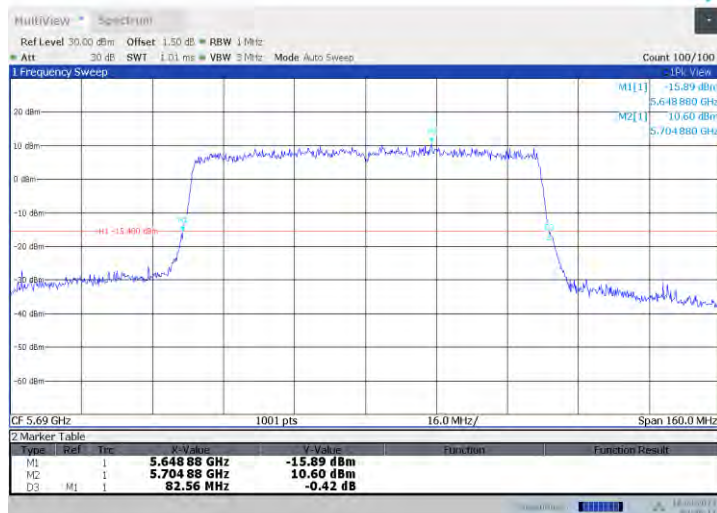
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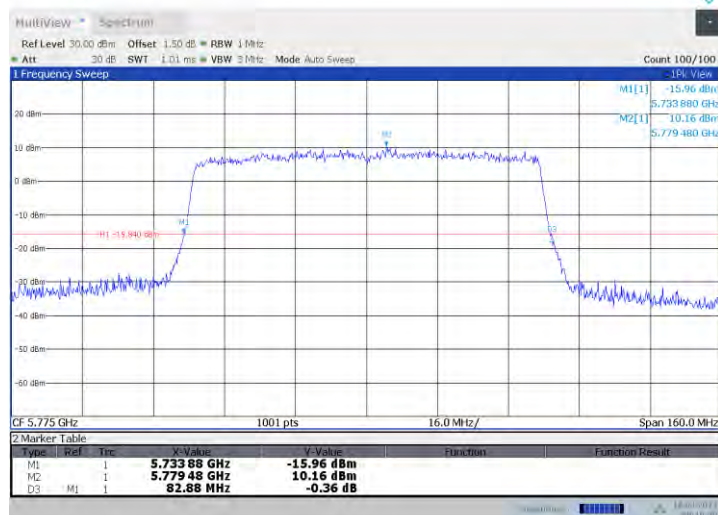
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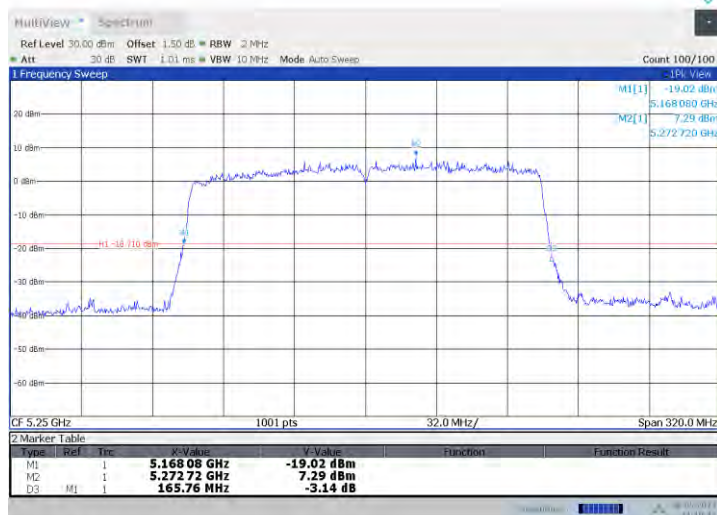
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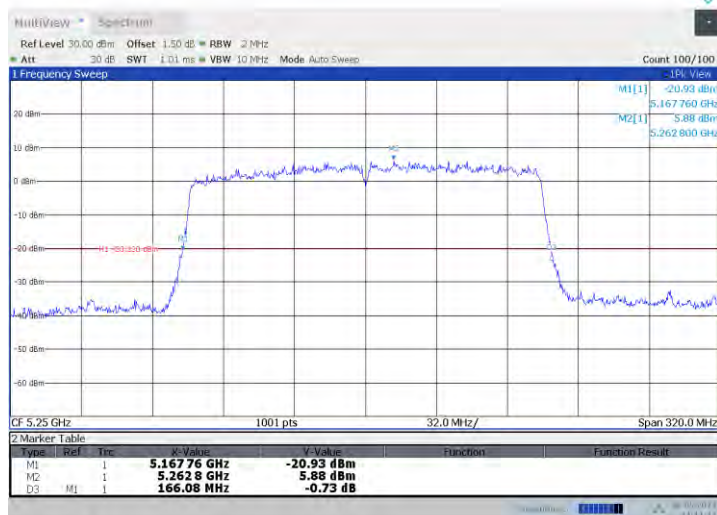
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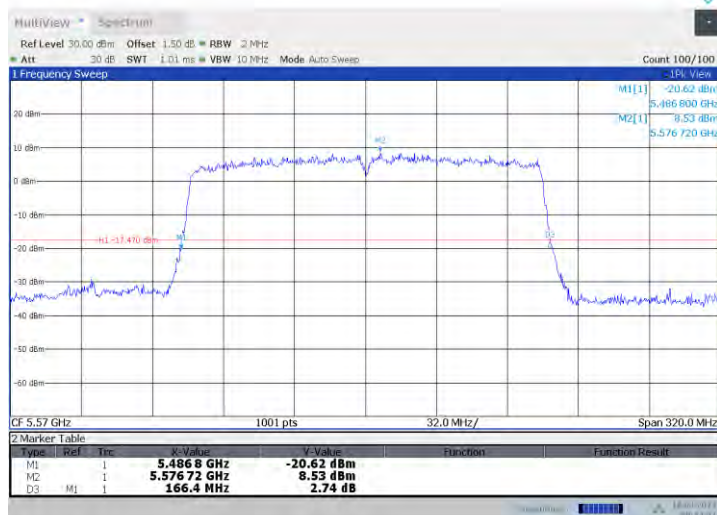
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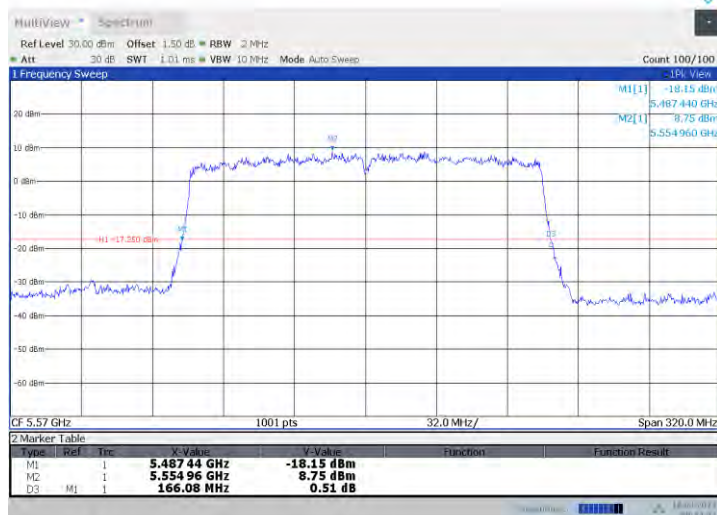
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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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

Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a-CDD	Ant0	5180	16.724	5171.6731	5188.3969	For Report Purpose
	Ant1	5180	16.725	5171.6630	5188.3882	
	Ant0	5220	16.737	5211.6448	5228.3817	
	Ant1	5220	16.623	5211.7586	5228.3818	
	Ant0	5240	16.752	5231.6284	5248.3807	
	Ant1	5240	16.672	5231.6915	5248.3638	
	Ant0	5260	16.777	5251.6197	5268.3964	
	Ant1	5260	16.617	5251.7562	5268.3735	
	Ant0	5300	16.812	5291.6194	5308.4314	
	Ant1	5300	17.343	5291.4622	5308.8054	
	Ant0	5320	16.806	5311.6034	5328.4097	
	Ant1	5320	16.814	5311.6057	5328.4199	
	Ant0	5500	16.775	5491.6245	5508.3990	
	Ant1	5500	16.627	5491.7385	5508.3652	
	Ant0	5580	16.775	5571.6332	5588.4083	
	Ant1	5580	16.738	5571.6577	5588.3961	
	Ant0	5700	16.757	5691.6454	5708.4021	
	Ant1	5700	16.592	5691.7776	5708.3692	
	Ant0	5720	16.788	5711.6249	5728.4134	
	Ant1	5720	16.803	5711.6130	5728.4156	
	Ant0	5720 UNII-2C	13.375	5711.6249	5725	
	Ant1	5720 UNII-2C	13.387	5711.6130	5725	
	Ant0	5720 UNII-3	3.413	5725	5728.4134	
	Ant1	5720 UNII-3	3.416	5725	5728.4156	
	Ant0	5745	16.755	5736.6455	5753.4008	
	Ant1	5745	16.593	5736.7796	5753.3721	
	Ant0	5785	16.736	5776.6671	5793.4030	
	Ant1	5785	16.615	5776.7654	5793.3805	
	Ant0	5825	16.741	5816.6428	5833.3834	
	Ant1	5825	16.661	5816.7231	5833.3842	
11ac20MIMO	Ant0	5180	17.8	5171.1660	5188.9664	
	Ant1	5180	18.034	5171.0428	5189.0771	
	Ant0	5220	17.894	5211.1046	5228.9982	
	Ant1	5220	17.867	5211.1034	5228.9706	
	Ant0	5240	17.851	5231.1130	5248.9637	
	Ant1	5240	17.831	5231.1403	5248.9712	
	Ant0	5260	17.817	5251.1327	5268.9493	
	Ant1	5260	17.816	5251.1501	5268.9662	
	Ant0	5300	17.815	5291.1596	5308.9745	
	Ant1	5300	17.817	5291.1346	5308.9516	
	Ant0	5320	17.829	5311.1706	5328.9995	
	Ant1	5320	17.798	5311.1677	5328.9658	
	Ant0	5500	17.763	5491.1821	5508.9448	
	Ant1	5500	17.816	5491.1615	5508.9773	
	Ant0	5580	17.852	5571.1538	5589.0056	
	Ant1	5580	17.817	5571.1637	5588.9810	
	Ant0	5700	17.82	5691.1961	5709.0158	
	Ant1	5700	17.807	5691.1754	5708.9825	
	Ant0	5720	17.805	5711.1982	5729.0034	
	Ant1	5720	17.814	5711.1811	5728.9948	
	Ant0	5720 UNII-2C	13.802	5711.1982	5725	
	Ant1	5720 UNII-2C	13.819	5711.1811	5725	



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