

Report No.: SEWA2205000012RG05

Rev.: 01

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TEST REPORT

Application No.: SEWA2205000012RG
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, China 200233
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, China 200233
EUT Description: Multi-mode Smart LTE Module
Model No.: SC200E-NA
Trade Mark: Quectel
FCC ID: XMR2022SC200ENA
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2022/5/7
Date of Test: 2022/5/10 to 2022/5/30
Date of Issue: 2022/6/8

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun

Panta Sun
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/6/8		Original

Prepared By	Weller Liu (Weller Liu) / Test Supervisor
Checked By	Well Wei (Well Wei) / Reviewer



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2 Test Summary

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



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			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/§7.2.5 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					

Remark:

According to customer statement, SC200E-NA has two versions of samples, full test LPDDR4X version, LPDDR3 version to check LPDDR4X worse mode, the final report only presents the worst data of the two versions.



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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, China 200233
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, China 200233

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



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3.4 General Description of EUT

EUT Description:	Multi-mode Smart LTE Module	
Model No.:	SC200E-NA	
Trade Mark:	Quectel	
Hardware Version:	LPDDR4X: R1.0 LPDDR3: R1.1	
Software Version:	LPDDR4X: SC200ENANAR01A03 LPDDR3: SC200ENATAR02A01	
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
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)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)
	40MHz:	802.11n(HT40)/ac(VHT40)
	80MHz:	802.11ac(VHT80)
Antenna Type:	☒ External, ☐ Integrated	
Antenna Gain*:	☒ Provided by client	
	5150MHz to 5250MHz: -0.67dBi(Ant0); 5250MHz to 5350MHz: -0.19dBi(Ant0); 5470MHz to 5725MHz: 1.28dBi(Ant0); 5725MHz to 5850MHz: 1.1dBi(Ant0);	
Smart System:	☒ SISO	802.11a/n/ac
	☐ MIMO	CDD: 802.11a/n/ac: Tx & Rx
		STBC: 802.11n/ac: Tx & Rx
		TXBF: 802.11n/ac: Tx & Rx
RF Cable*:	☐ Diversity	802.11b/g: Tx & Rx
	☒ Provided by client	
	0.5dB	

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

For UNII Band I:

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

For UNII Band II-A:

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



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

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



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44~60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.8
LTNV	-35	3.8
HTNV	75	3.8
Remark: NV: Normal Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.
Mother board	Quectel	EVB-G2_V1.3
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	MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	/
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	/



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
Non-standard antenna connector is used. The antenna peak gain of EUT is less than 6 dBi, Therefore, it is not necessary to reduce maximum peak output power limit.	



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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:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		



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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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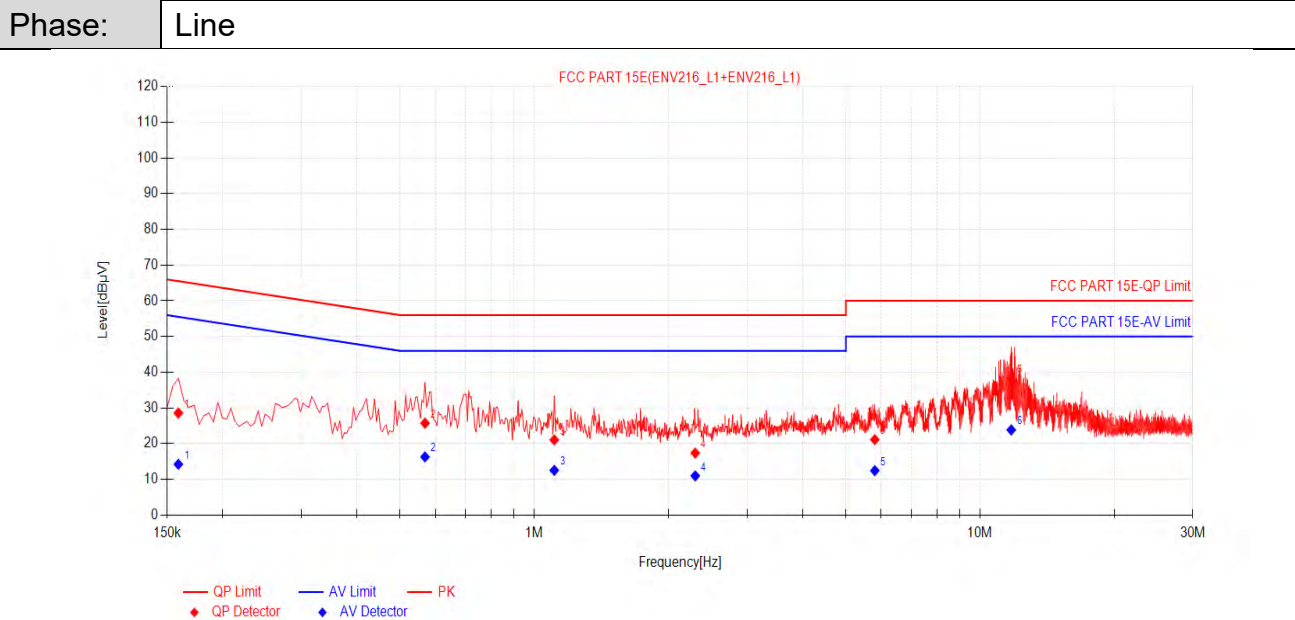
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Measurement Data

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.



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	0.1590	10.67	17.90	28.57	65.52	36.95	3.57	14.24	55.52	41.28	PASS
2	0.5685	10.53	15.22	25.75	56.00	30.25	5.76	16.29	46.00	29.71	PASS
3	1.1085	10.64	10.41	21.05	56.00	34.95	1.89	12.53	46.00	33.47	PASS
4	2.2965	10.66	6.72	17.38	56.00	38.62	0.32	10.98	46.00	35.02	PASS
5	5.8065	10.67	10.47	21.14	60.00	38.86	1.79	12.46	50.00	37.54	PASS
6	11.7510	10.59	27.64	38.23	60.00	21.77	13.27	23.86	50.00	26.14	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Reading + Factor (Lisn factor + cable loss).



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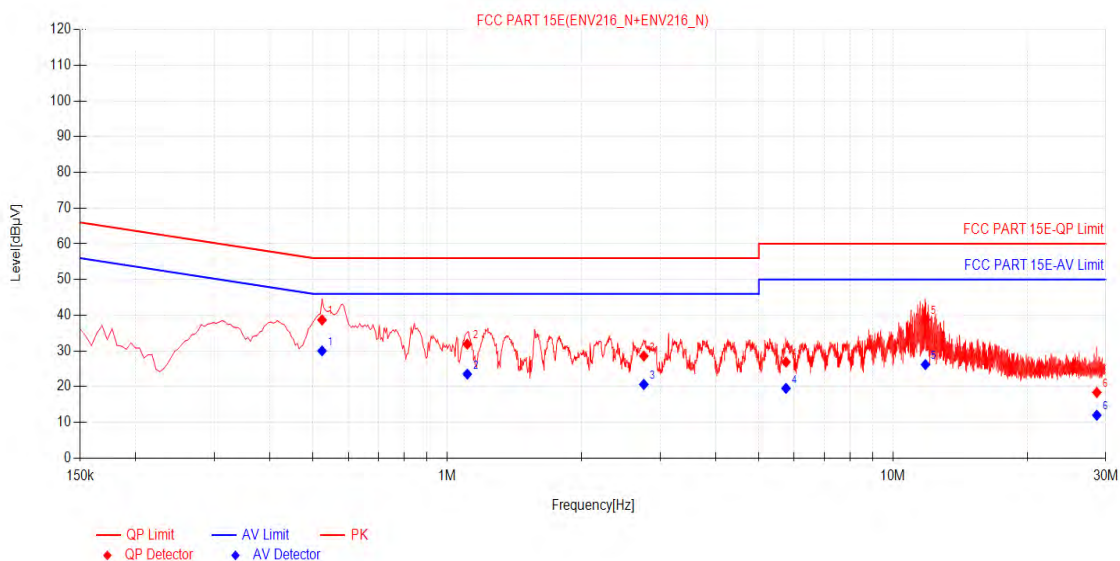
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Phase: Neutral



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	0.5235	10.78	27.92	38.70	56.00	17.30	19.24	30.02	46.00	15.98	PASS
2	1.1085	10.71	21.21	31.92	56.00	24.08	12.82	23.53	46.00	22.47	PASS
3	2.7600	10.68	17.93	28.61	56.00	27.39	9.95	20.63	46.00	25.37	PASS
4	5.7525	10.59	16.31	26.90	60.00	33.10	8.94	19.53	50.00	30.47	PASS
5	11.8230	10.64	28.16	38.80	60.00	21.20	15.54	26.18	50.00	23.82	PASS
6	28.6575	10.45	7.94	18.39	60.00	41.61	1.56	12.01	50.00	37.99	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Reading + Factor (Lisn factor + cable loss).



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4.3 Duty Cycle

The detailed test data see: **Appendix**



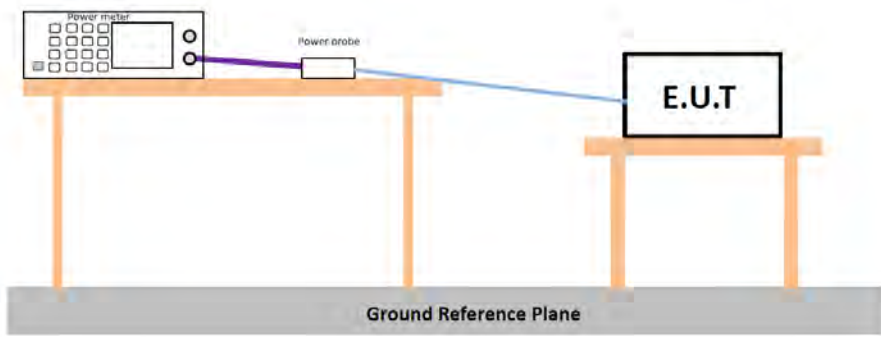
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013 Section11.9.2.3	
Test Setup:	 * Test with power meter (Detector function: Peak)	
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	
The detailed test data see: Appendix		



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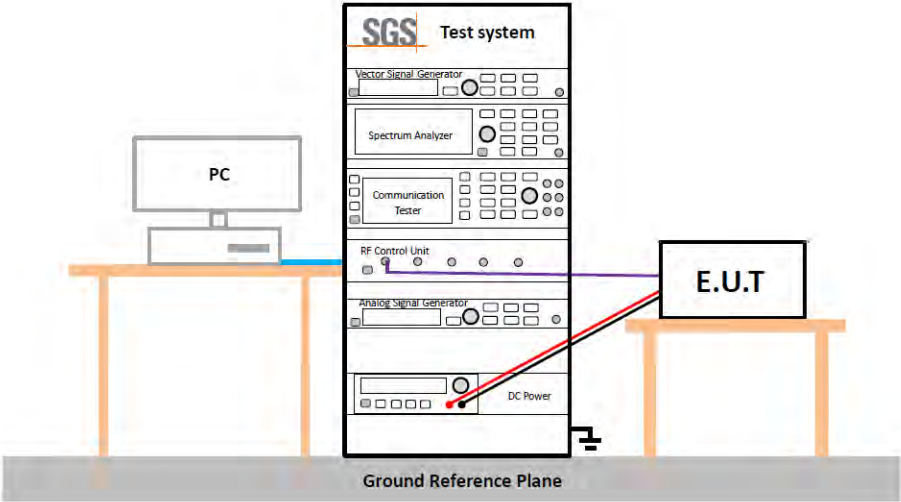
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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	



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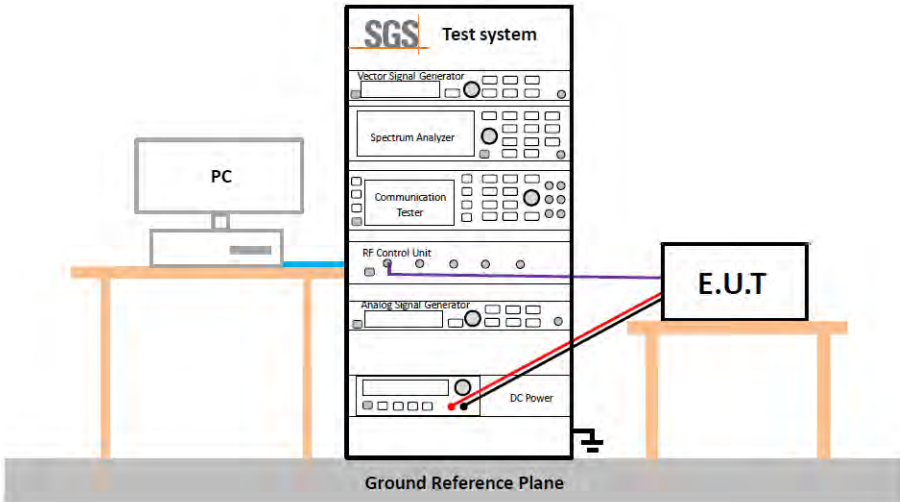
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4.6 6dB Emission Bandwidth

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



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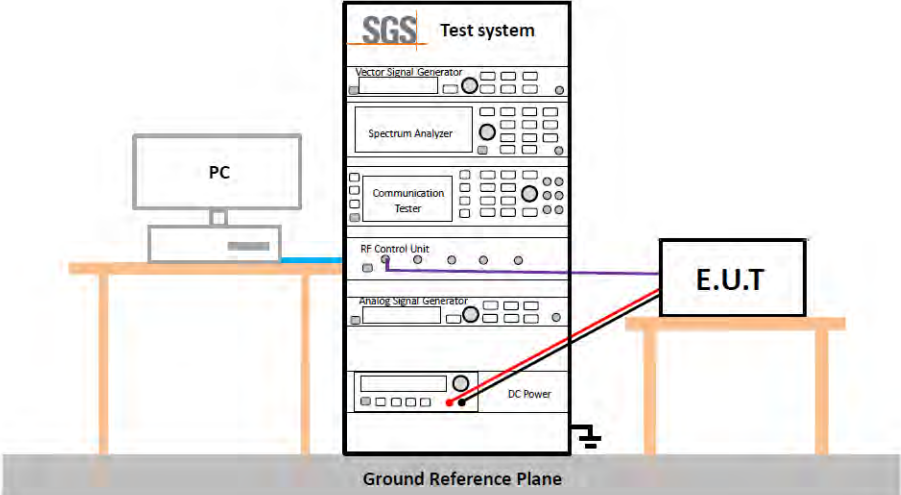
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4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013 Section 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	



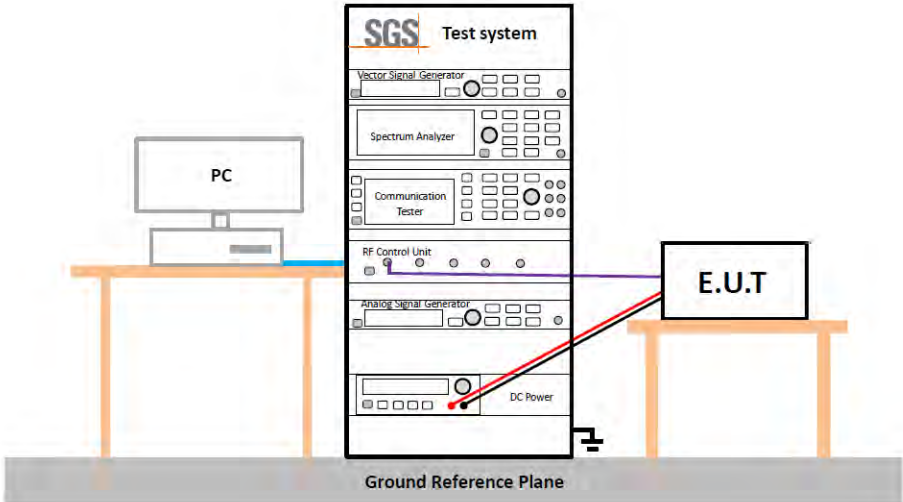
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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 Section 11.10.2 KDB 789033 D02 v02r01, Section F.	
Test Setup:		
Instruments Used:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	
The detailed test data see: Appendix		



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	

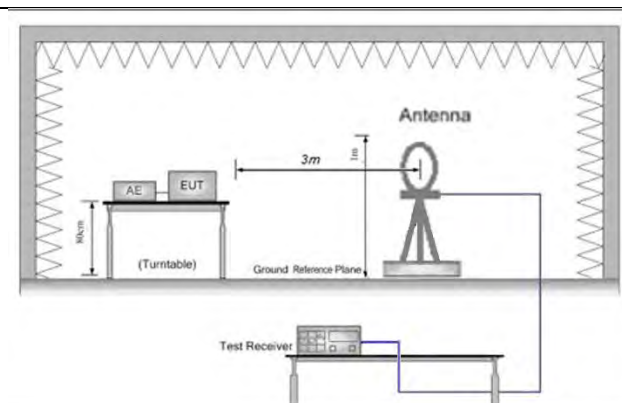


Figure 1. 9kHz to 30MHz

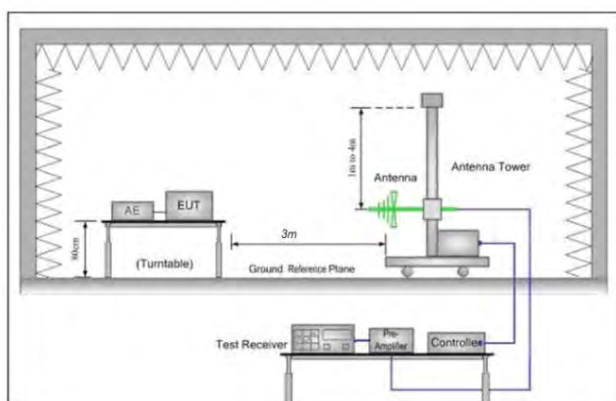


Figure 1. 30MHz to 1GHz

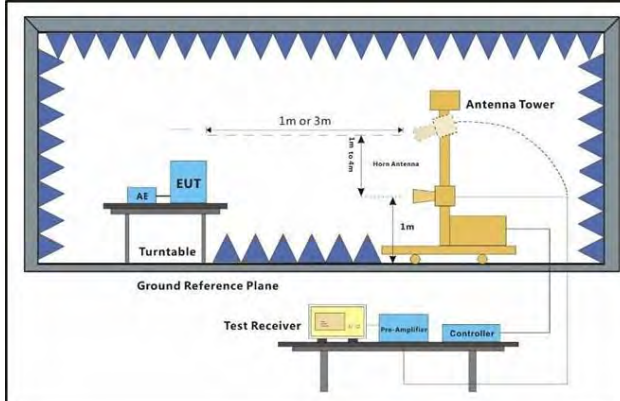


Figure 2. Above 1 GHz

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. - 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 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = 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 $\geq [3 \cdot \text{RBW}]$ • Detector = RMS (power averaging), if $\text{span} / (\# \text{ of points in sweep}) \leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).
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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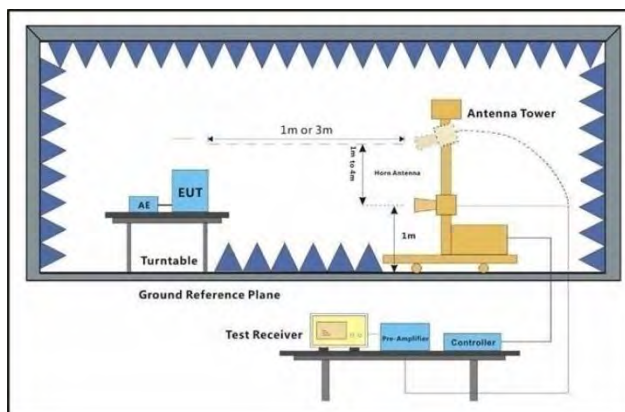
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:



Test Procedure:

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

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	i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss).
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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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)



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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	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
				2022/5/17	2023/5/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15



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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer*	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
				2022/5/28	2023/5/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR

*Note: This equipment was not used for testing on 2022/5/27.



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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	Ant0	5180	24.80	5168.20	5193.00	---	---
		5220	24.00	5208.64	5232.64	---	---
		5240	23.76	5228.68	5252.44	---	---
		5260	23.88	5248.64	5272.52	---	---
		5300	23.20	5288.68	5311.88	---	---
		5320	28.48	5305.56	5334.04	---	---
		5500	23.24	5488.52	5511.76	---	---
		5580	23.64	5568.04	5591.68	---	---
		5700	22.88	5688.96	5711.84	---	---
		5745	23.00	5733.64	5756.64	---	---
		5785	22.36	5773.68	5796.04	---	---
		5825	23.24	5813.68	5836.92	---	---
11N20SISO	Ant0	5180	23.76	5168.40	5192.16	---	---
		5220	24.64	5208.08	5232.72	---	---
		5240	23.88	5228.24	5252.12	---	---
		5260	24.32	5248.16	5272.48	---	---
		5300	24.72	5288.12	5312.84	---	---
		5320	23.84	5308.32	5332.16	---	---
		5500	24.08	5488.04	5512.12	---	---
		5580	23.72	5568.28	5592.00	---	---
		5700	23.72	5688.28	5712.00	---	---
		5745	23.56	5733.40	5756.96	---	---
		5785	23.80	5773.08	5796.88	---	---
		5825	23.84	5812.96	5836.80	---	---
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		5230	41.20	5209.52	5250.72	---	---
		5270	40.96	5249.60	5290.56	---	---
		5310	41.36	5289.44	5330.80	---	---
		5510	41.44	5489.36	5530.80	---	---
		5550	40.96	5529.52	5570.48	---	---
		5670	40.88	5649.60	5690.48	---	---
		5755	41.44	5734.36	5775.80	---	---
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		5180	24.76	5168.24	5193.00	---	---
		5220	24.84	5208.08	5232.92	---	---
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11AC80SISO	Ant0	5755	41.44	5734.12	5775.56	---	---
		5795	41.20	5774.36	5815.56	---	---
		5210	90.72	5166.96	5257.68	---	---
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		5775	86.08	5729.88	5815.96	---	---



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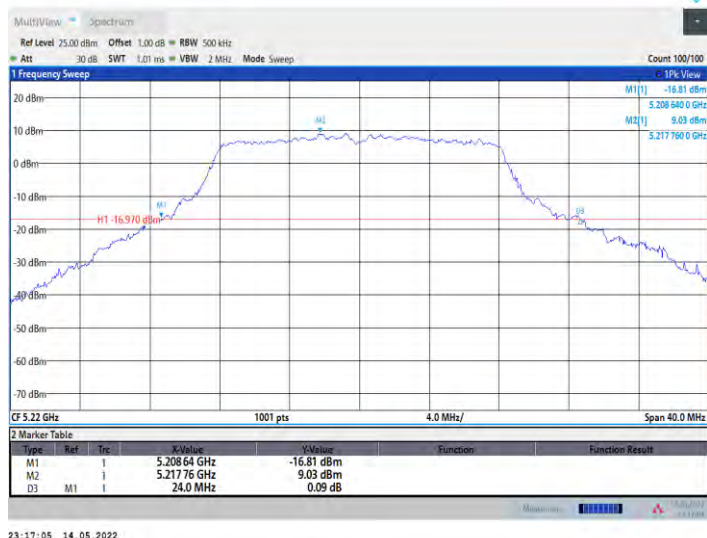
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Test Graphs

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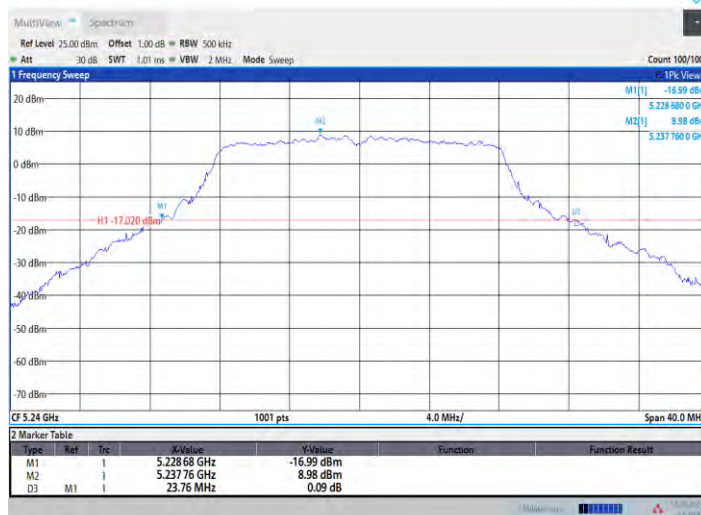
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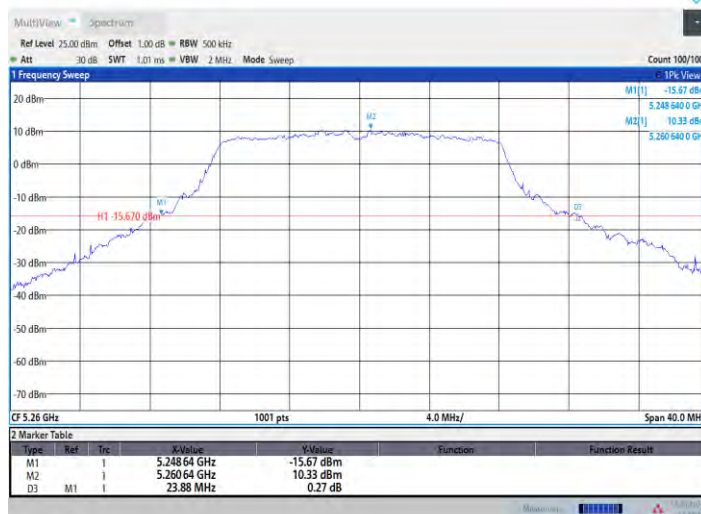
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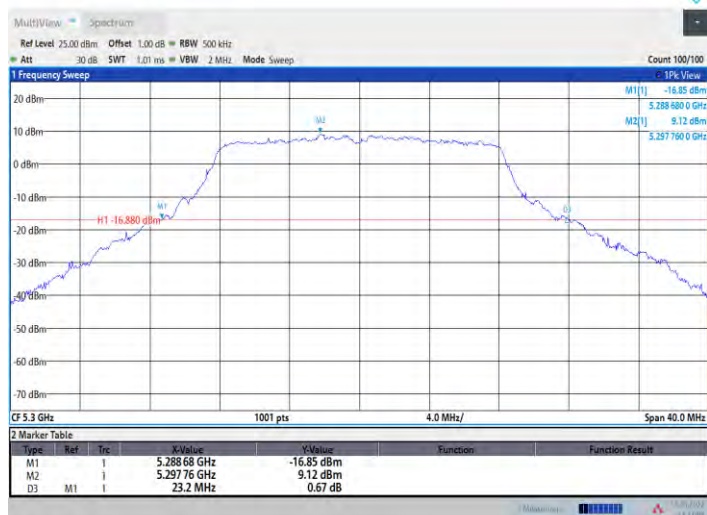
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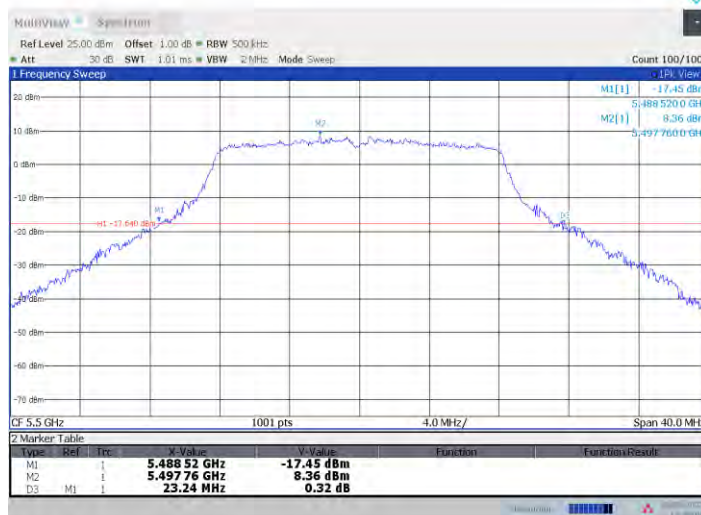
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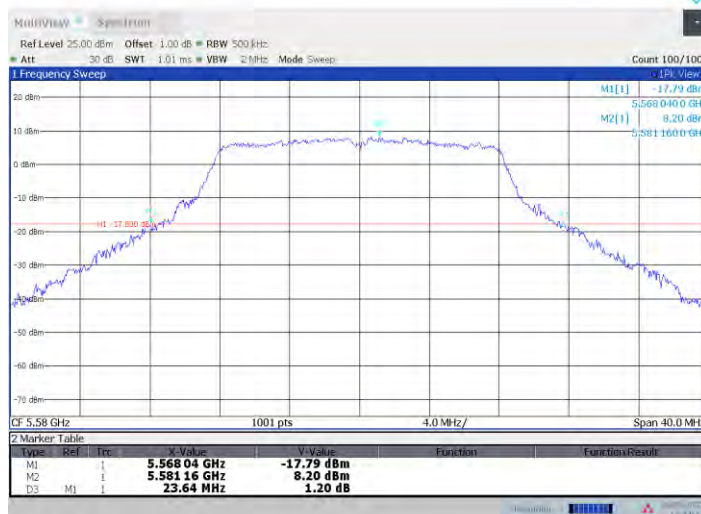
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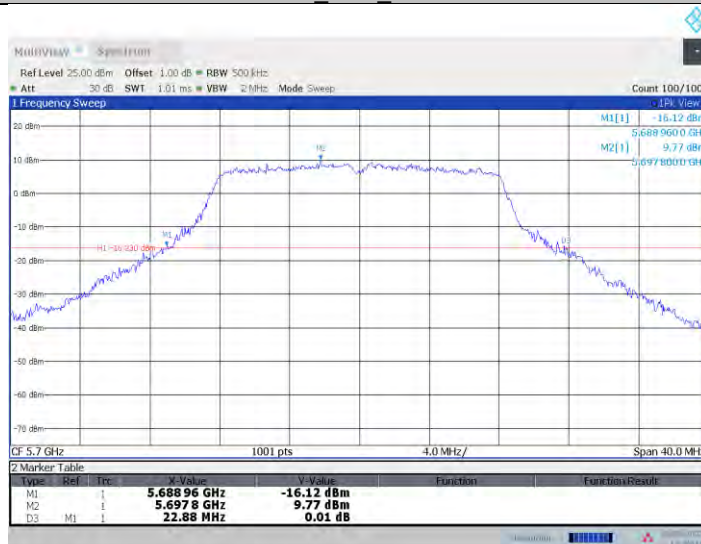
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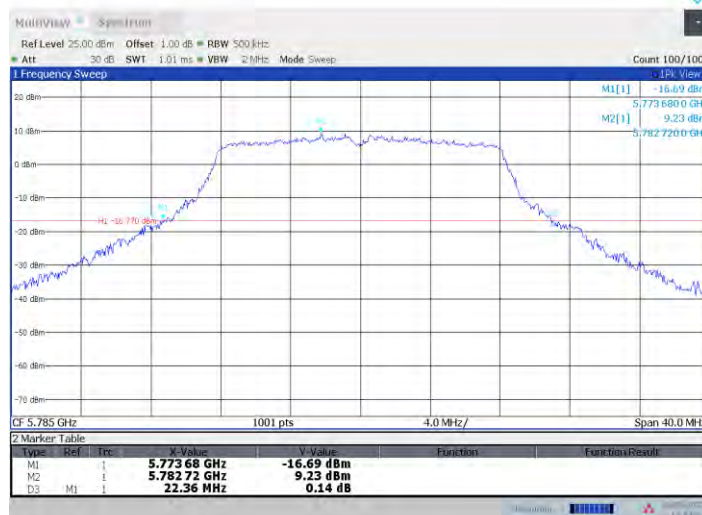
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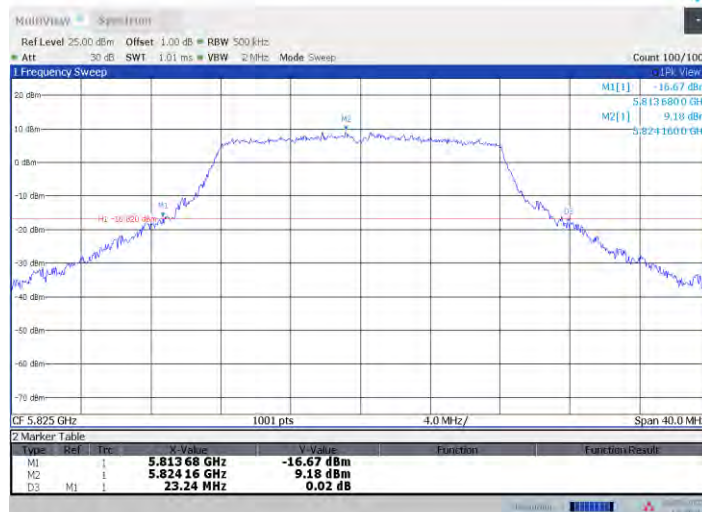
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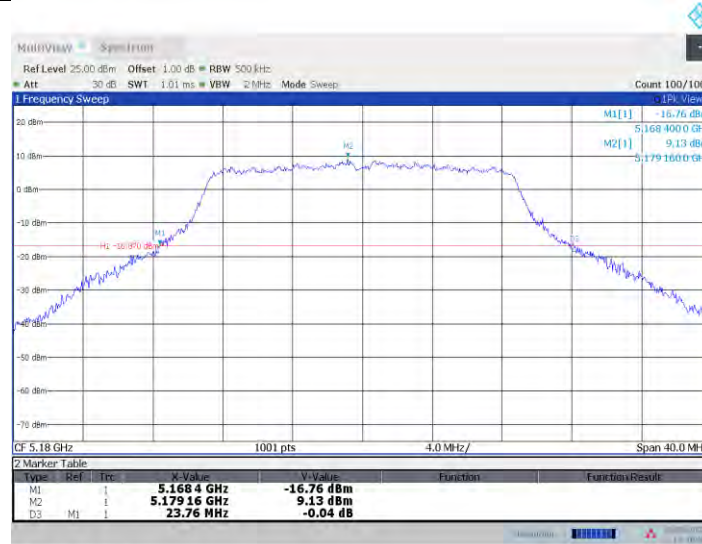
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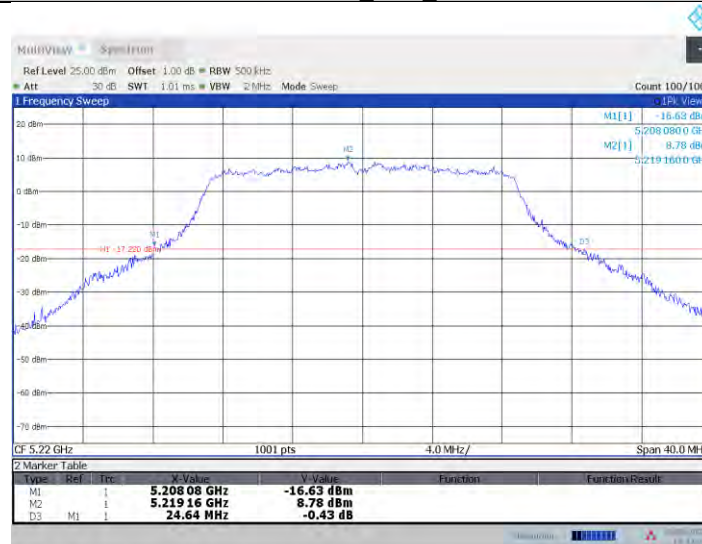
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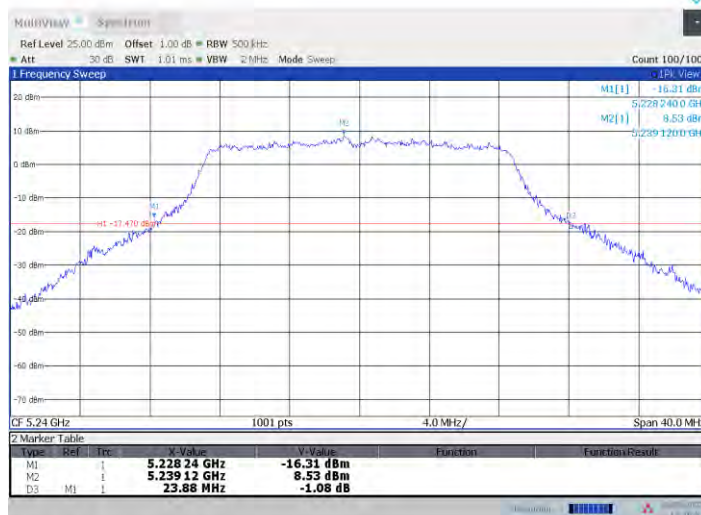
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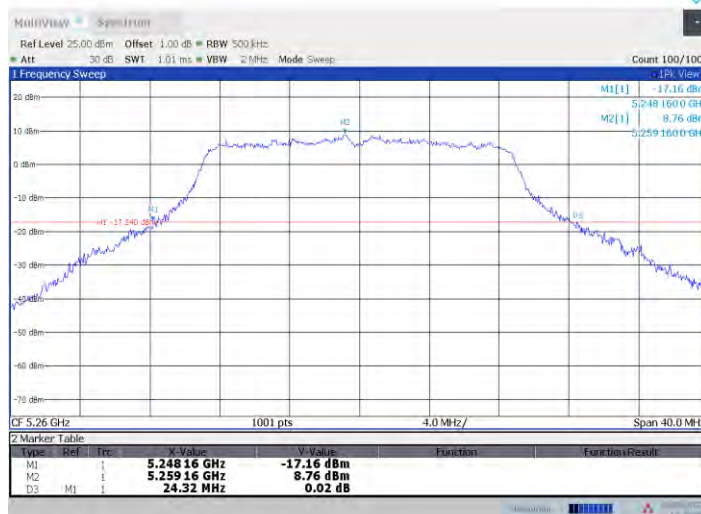
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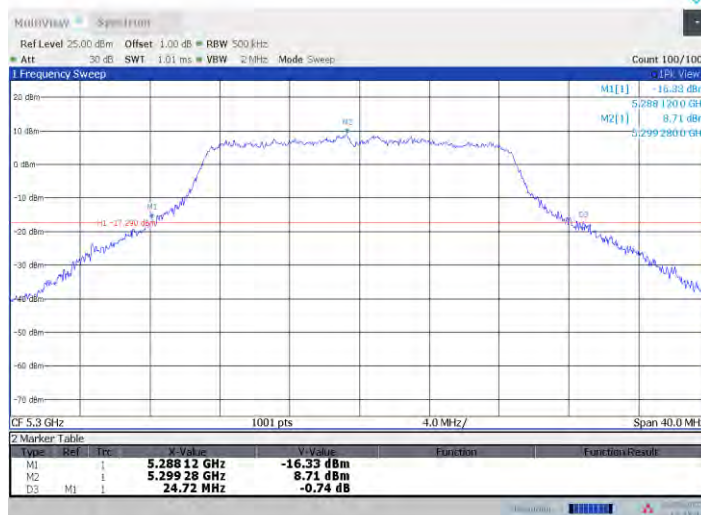
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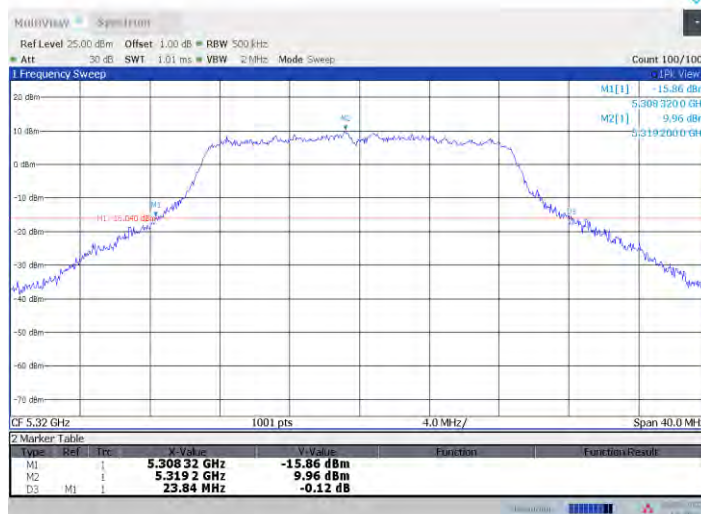
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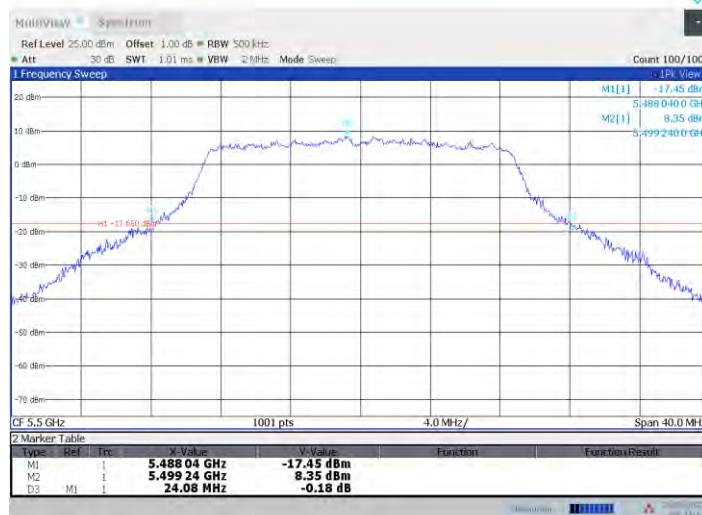
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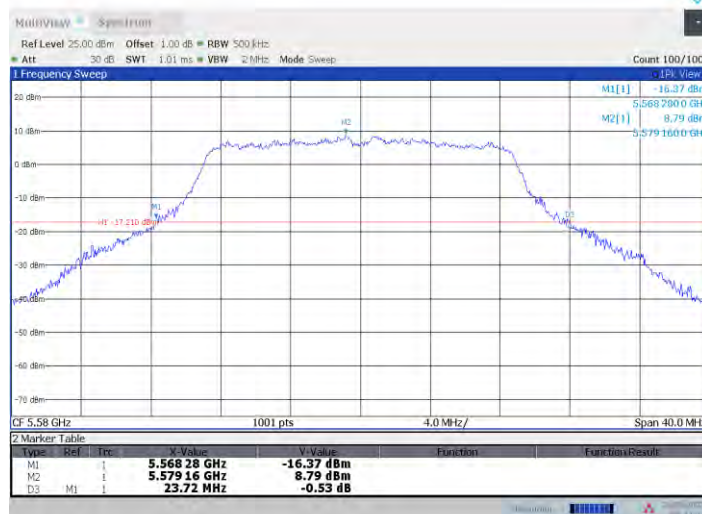
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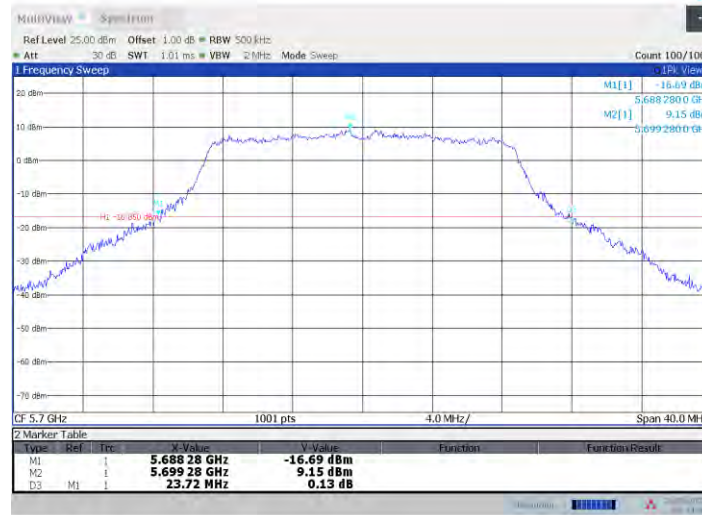
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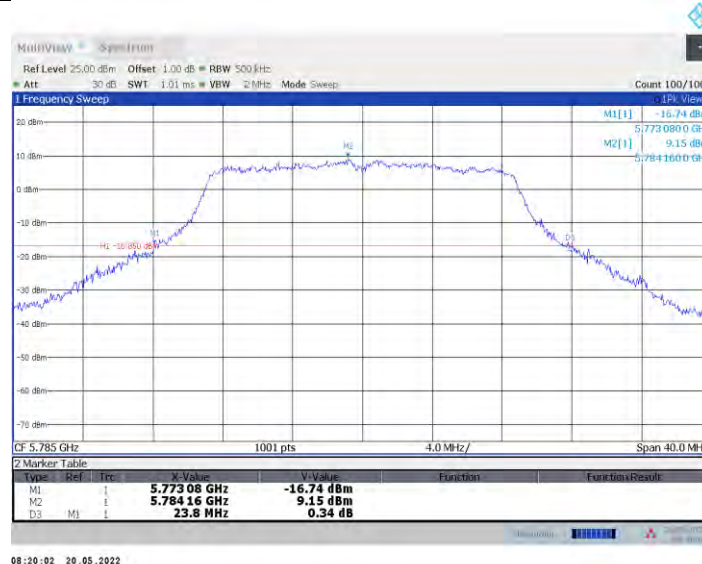
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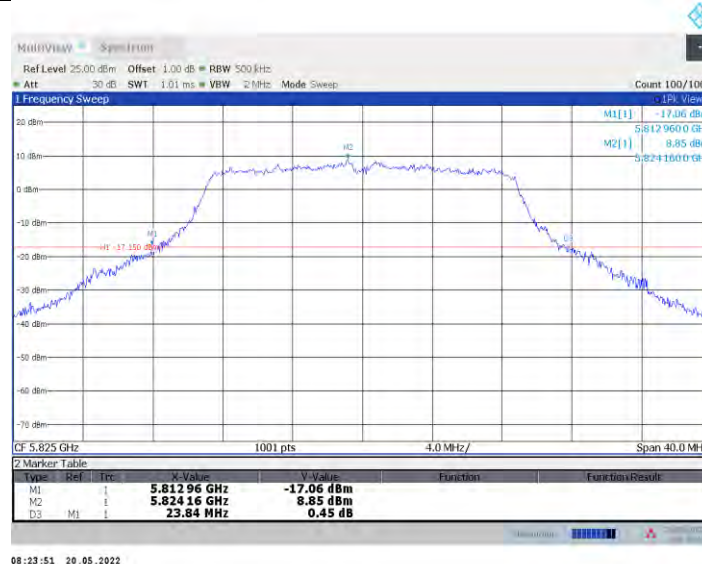
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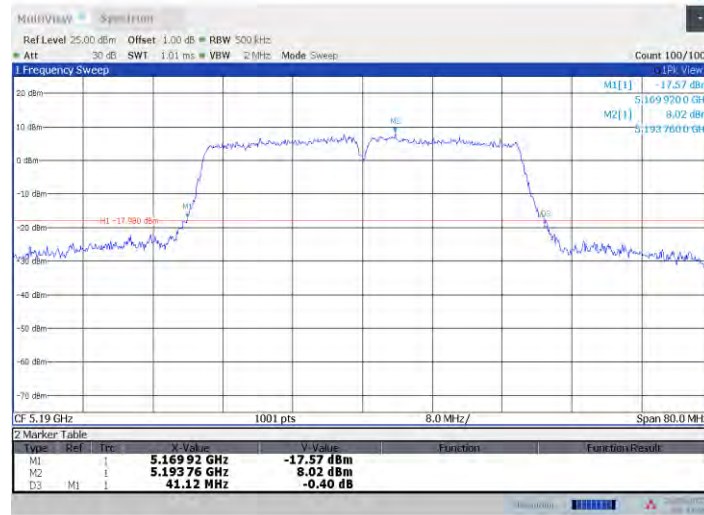
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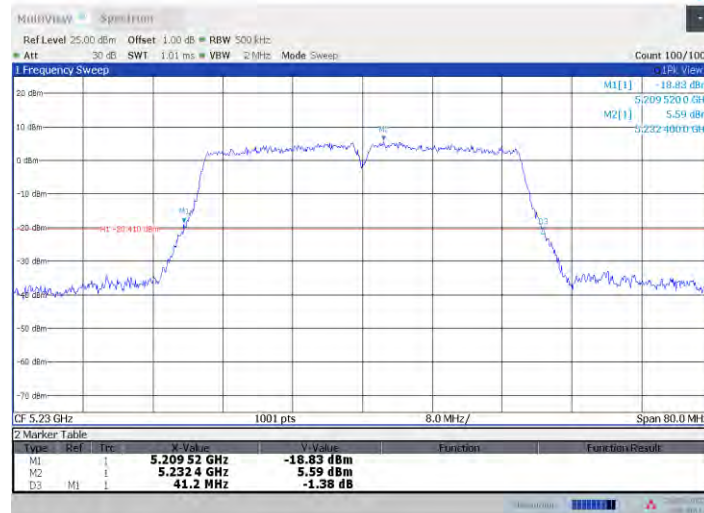
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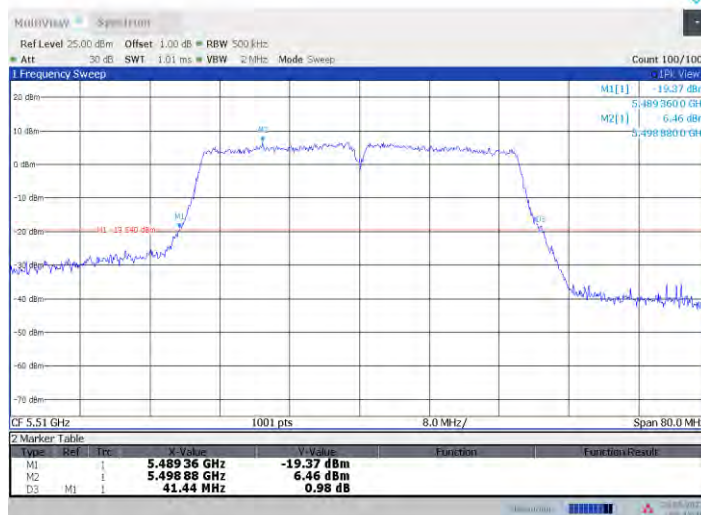
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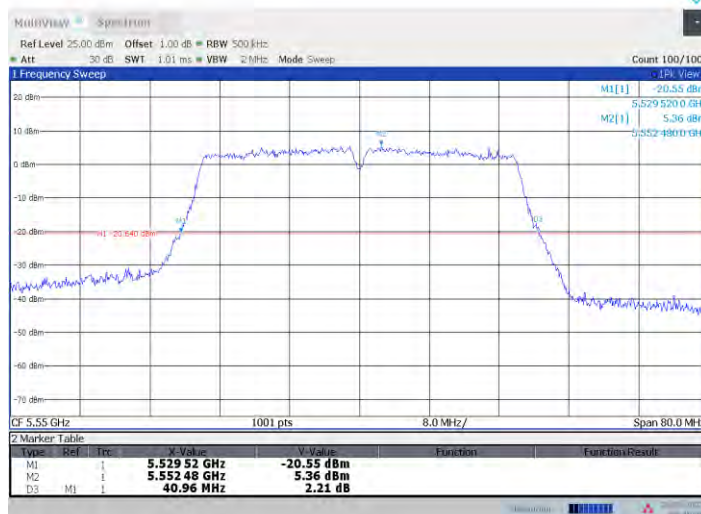
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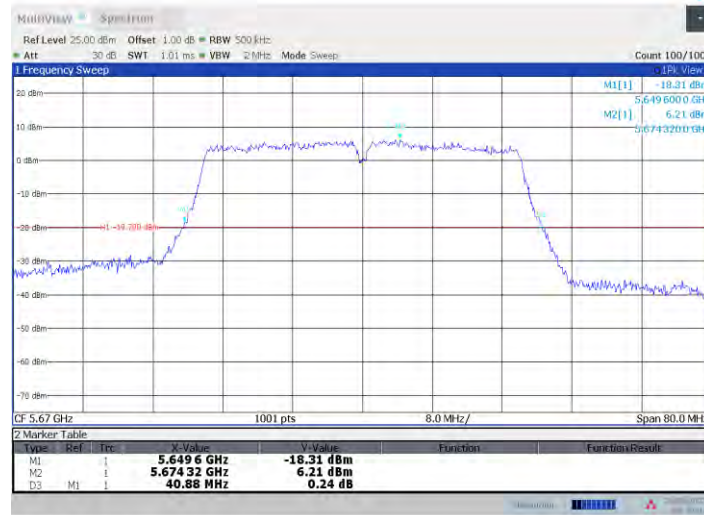
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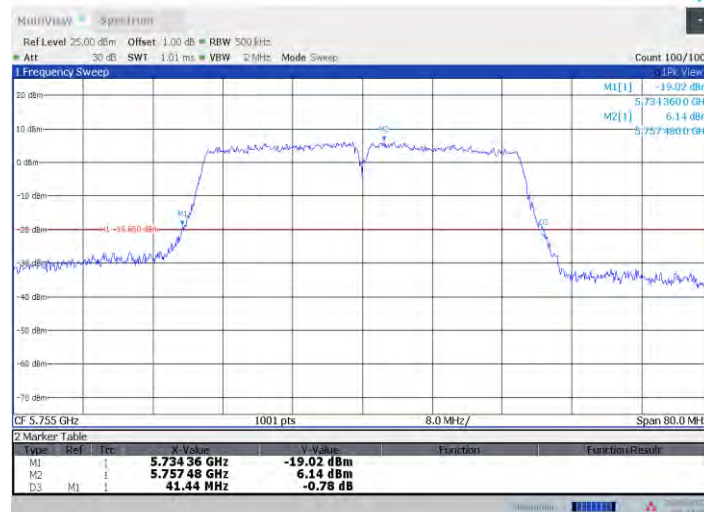
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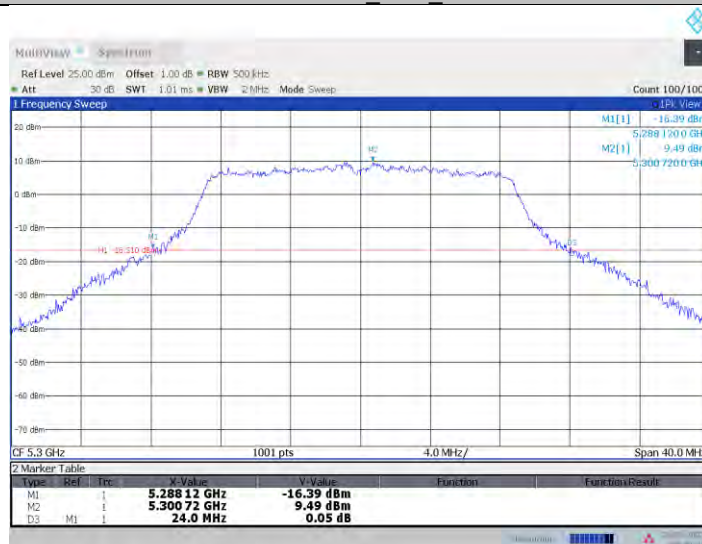
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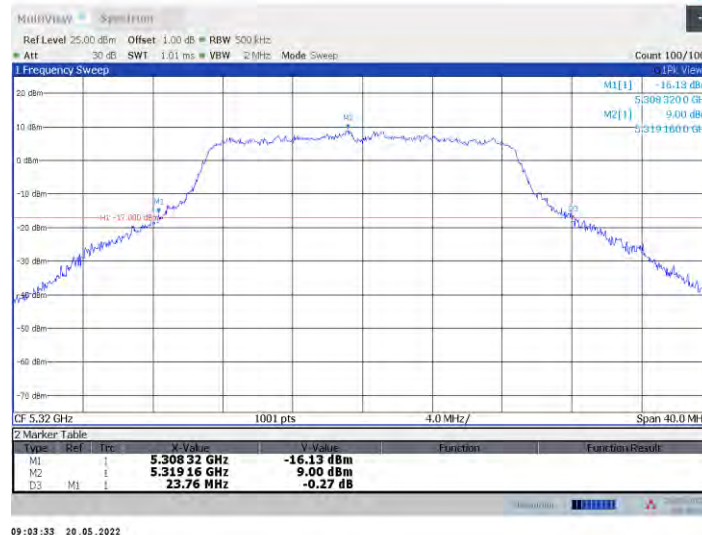
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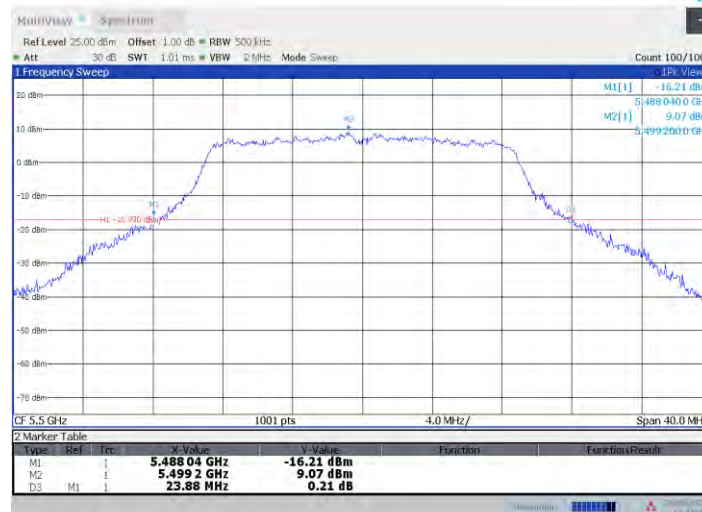
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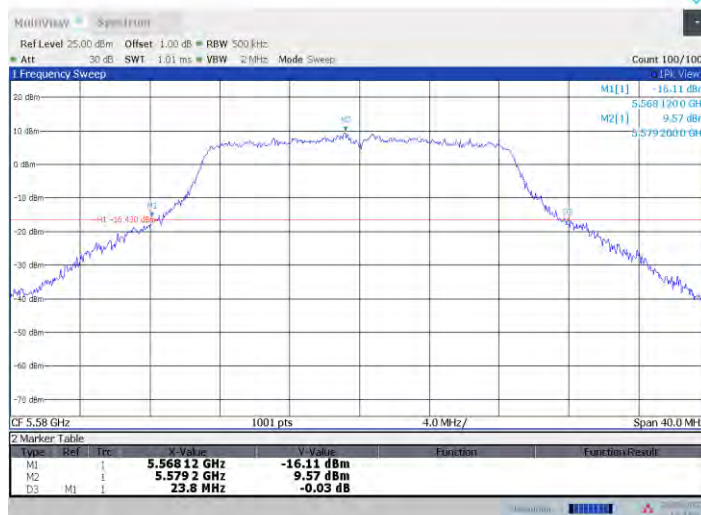
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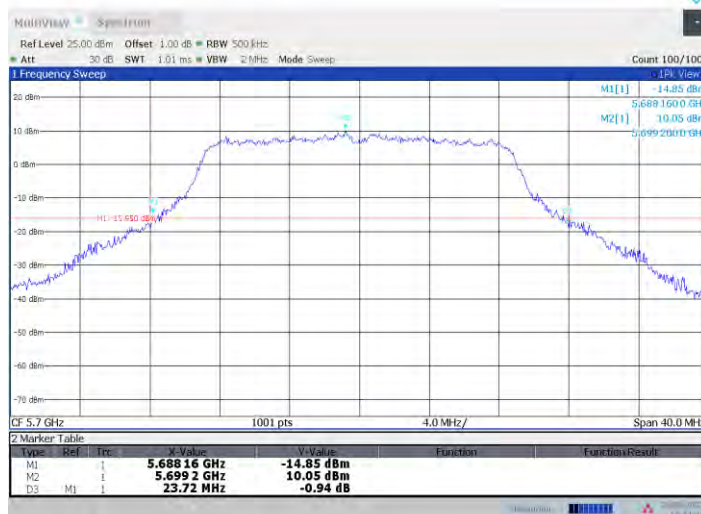
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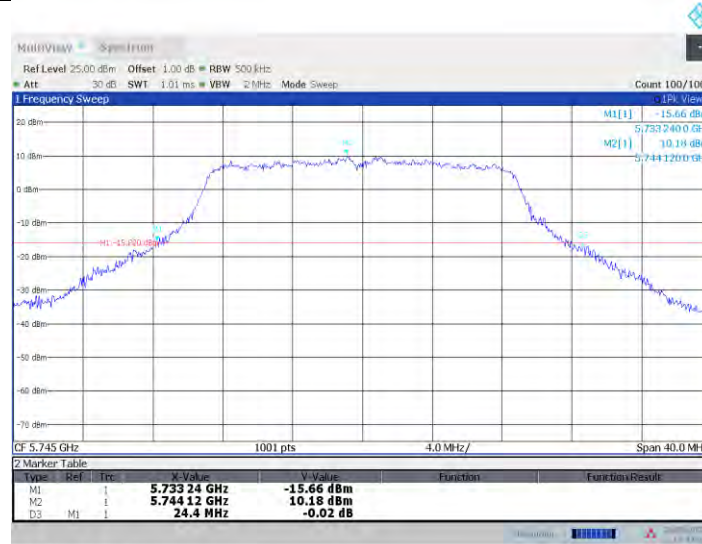
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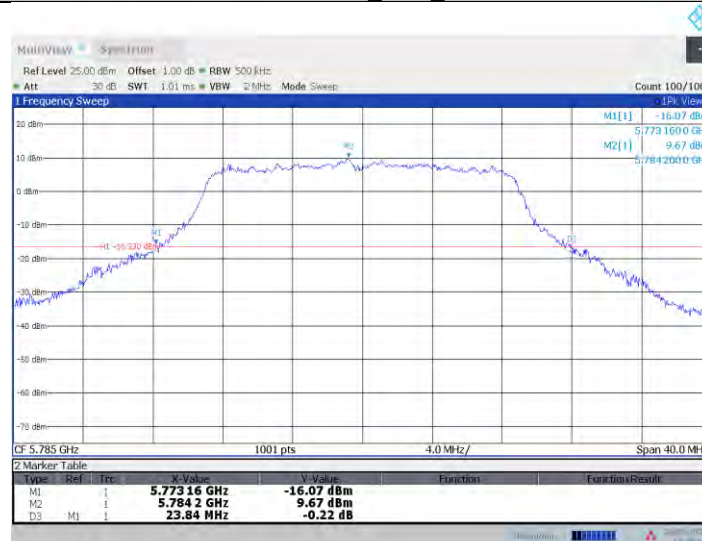
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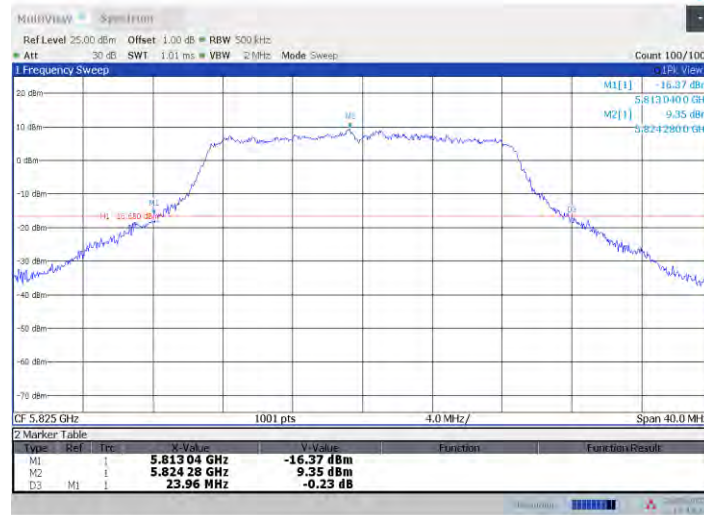
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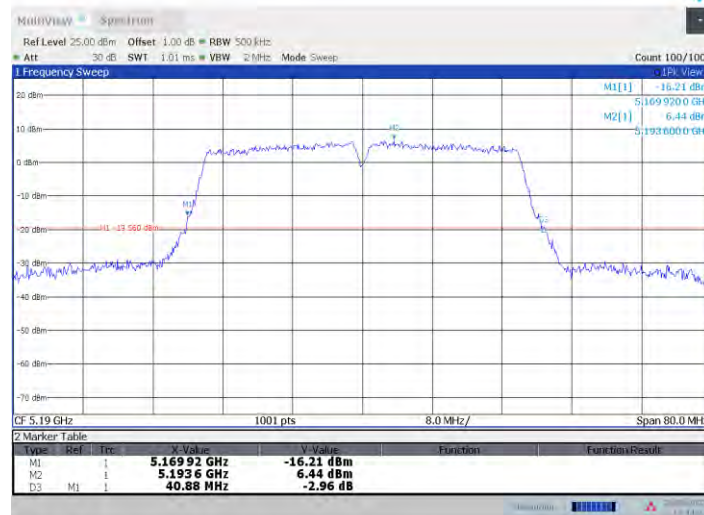
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11AC20SISO_Ant0_5825



10:43:25 20.05.2022

11AC40SISO_Ant0_5190



10:44:23 20.05.2022



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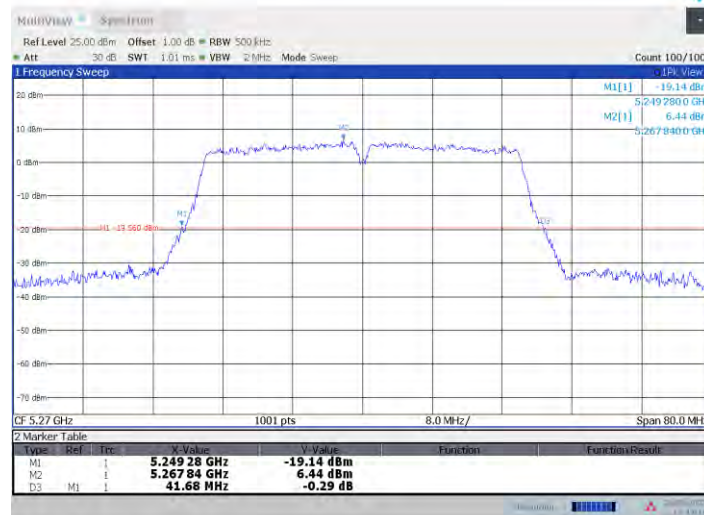
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10:46:12 20.05.2022

11AC40SISO_Ant0_5270



10:47:19 20.05.2022



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11AC40SISO_Ant0_5310



10:48:23 20.05.2022

11AC40SISO_Ant0_5510



10:50:05 20.05.2022



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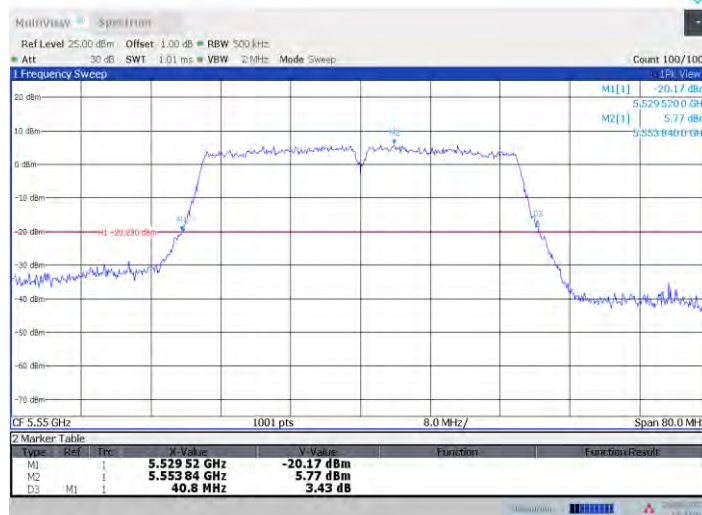
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10:51:02 20.05.2022

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10:54:00 20.05.2022



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10:56:04 20.05.2022

11AC40SISO_Ant0_5795



10:58:37 20.05.2022



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11:01:22 20.05.2022

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11:04:08 20.05.2022



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11AC80SISO_Ant0_5775



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Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	17.19	5171.424	5188.613	---	---
		5220	17.694	5211.156	5228.850	---	---
		5240	17.034	5231.483	5248.516	---	---
		5260	17.053	5251.474	5268.527	---	---
		5300	17.036	5291.463	5308.499	---	---
		5320	17.456	5311.258	5328.714	---	---
		5500	16.956	5491.447	5508.404	---	---
		5580	16.978	5571.449	5588.428	---	---
		5700	16.921	5691.472	5708.393	---	---
		5745	16.98	5736.444	5753.424	---	---
		5785	16.92	5776.477	5793.397	---	---
11N20SISO	Ant0	5825	16.944	5816.468	5833.412	---	---
		5180	18.115	5170.952	5189.067	---	---
		5220	18.164	5210.923	5229.087	---	---
		5240	18.192	5230.906	5249.099	---	---
		5260	18.154	5250.923	5269.077	---	---
		5300	18.126	5290.935	5309.061	---	---
		5320	18.12	5310.930	5329.050	---	---
		5500	18.108	5490.900	5509.008	---	---
		5580	18.132	5570.897	5589.029	---	---
		5700	18.112	5690.895	5709.007	---	---
		5745	18.088	5735.908	5753.996	---	---
11N40SISO	Ant0	5785	18.138	5775.902	5794.040	---	---
		5825	18.122	5815.894	5834.017	---	---
		5190	36.612	5171.755	5208.366	---	---
		5230	36.509	5211.801	5248.310	---	---
		5270	36.504	5251.782	5288.287	---	---
		5310	36.525	5291.759	5328.284	---	---
		5510	36.546	5491.751	5528.296	---	---
		5550	36.516	5531.753	5568.269	---	---
		5670	36.546	5651.701	5688.247	---	---
		5755	36.583	5736.688	5773.271	---	---
		5795	36.513	5776.738	5813.251	---	---
11AC20SISO	Ant0	5180	18.136	5170.946	5189.081	---	---
		5220	18.164	5210.927	5229.091	---	---
		5240	18.135	5230.927	5249.062	---	---
		5260	18.167	5250.922	5269.089	---	---
		5300	18.142	5290.899	5309.040	---	---
		5320	18.115	5310.921	5329.037	---	---
		5500	18.128	5490.903	5509.031	---	---
		5580	18.142	5570.899	5589.042	---	---
		5700	18.115	5690.903	5709.018	---	---
		5745	18.102	5735.905	5754.007	---	---
		5785	18.114	5775.901	5794.015	---	---
11AC40SISO	Ant0	5825	18.132	5815.885	5834.018	---	---
		5190	36.461	5171.774	5208.235	---	---
		5230	36.394	5211.816	5248.210	---	---
		5270	36.434	5251.787	5288.221	---	---
		5310	36.453	5291.736	5328.189	---	---
		5510	36.441	5491.740	5528.181	---	---
		5550	36.444	5531.758	5568.202	---	---
	Ant0	5670	36.42	5651.747	5688.167	---	---



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		5755	36.468	5736.696	5773.164	---	---
		5795	36.483	5776.704	5813.187	---	---
11AC80SISO	Ant0	5210	75.993	5172.196	5248.190	---	---
		5290	76.036	5252.004	5328.040	---	---
		5530	75.981	5491.915	5567.897	---	---
		5610	75.957	5571.912	5647.869	---	---
		5775	76.049	5736.800	5812.849	---	---



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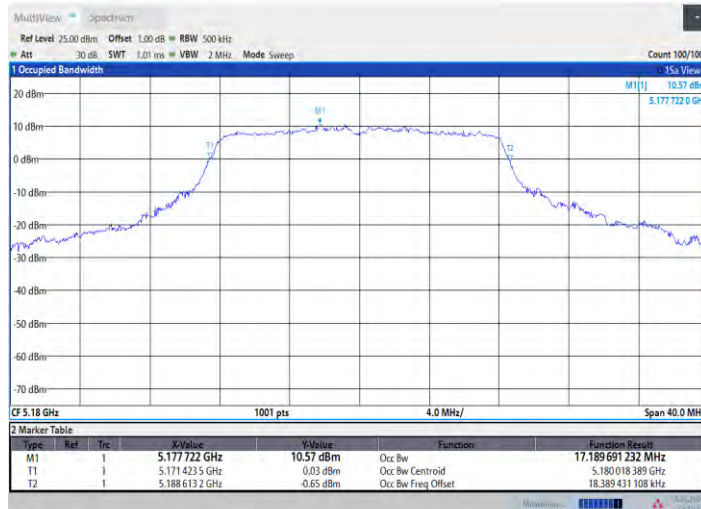
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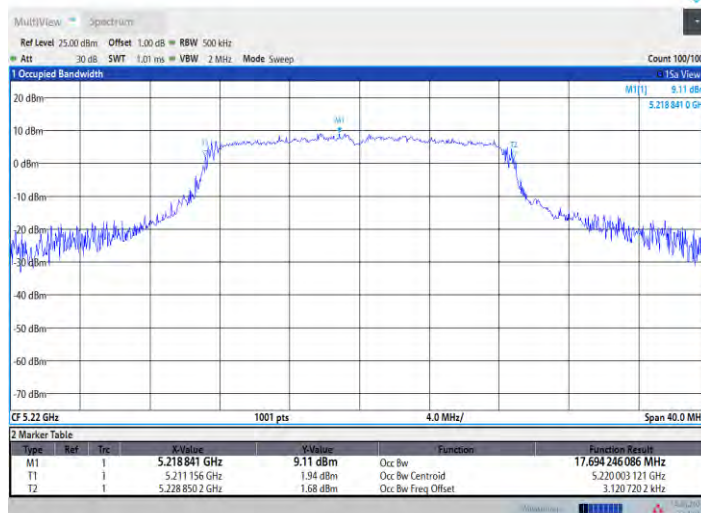
Test Graphs

11A_Ant0_5180



23:15:57 14.05.2022

11A_Ant0_5220



23:17:17 14.05.2022



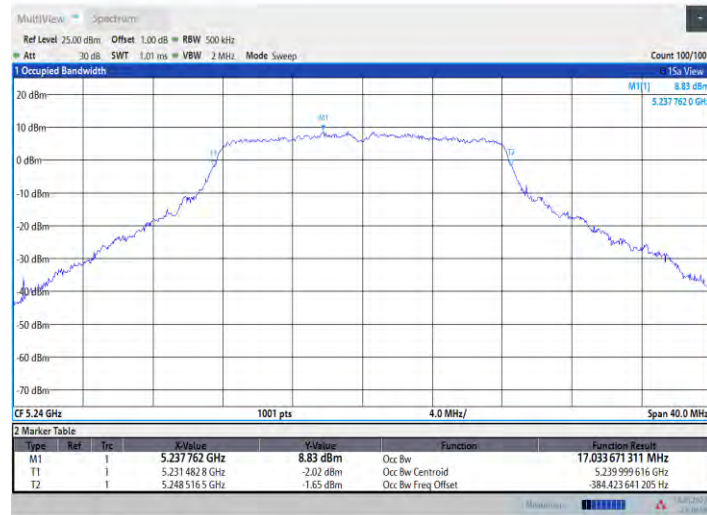
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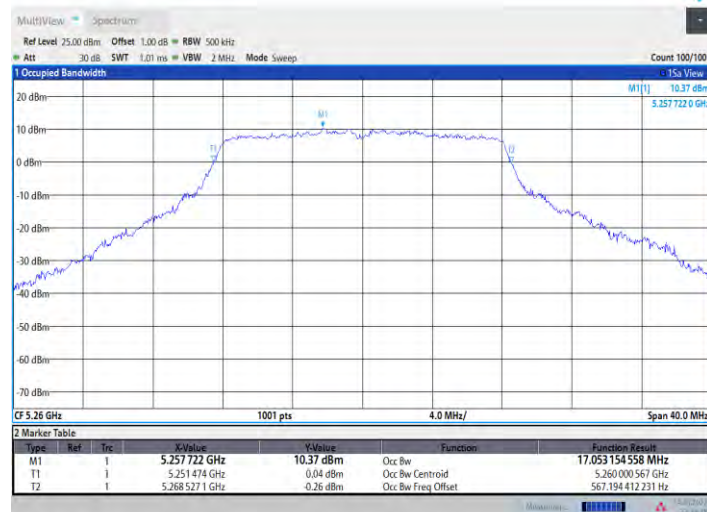
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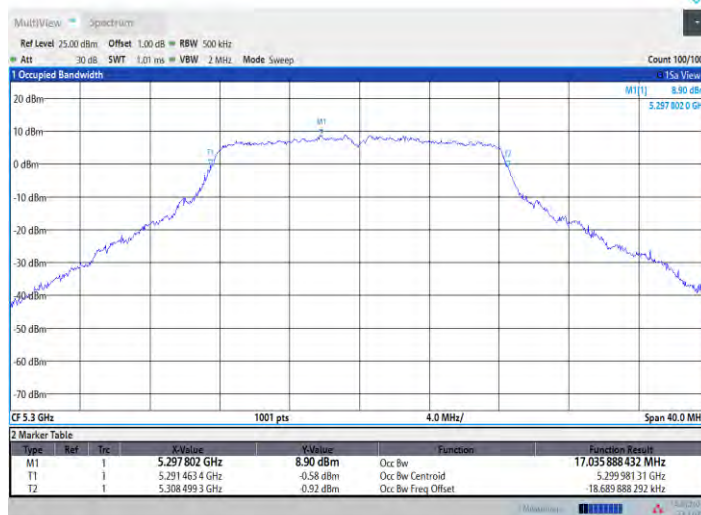
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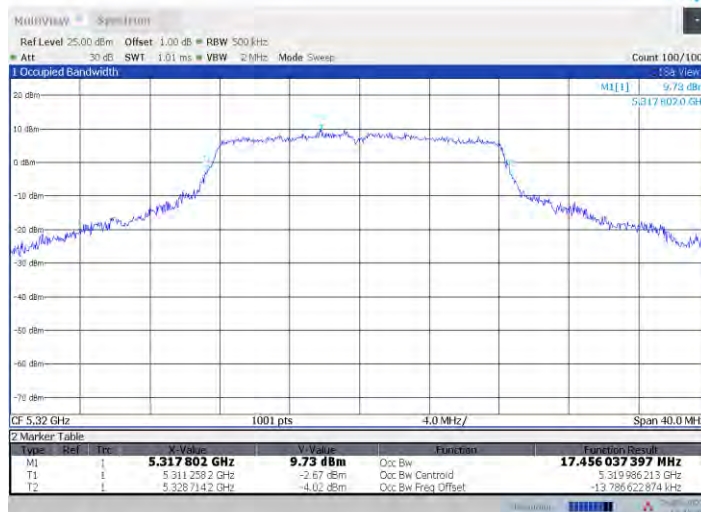
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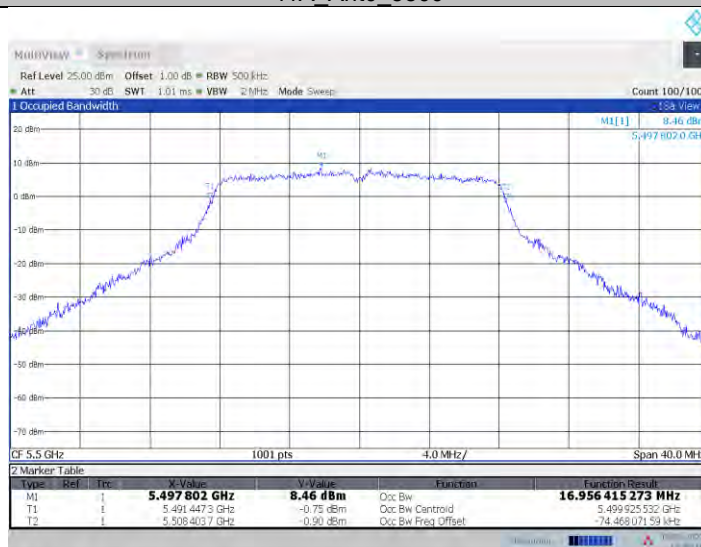
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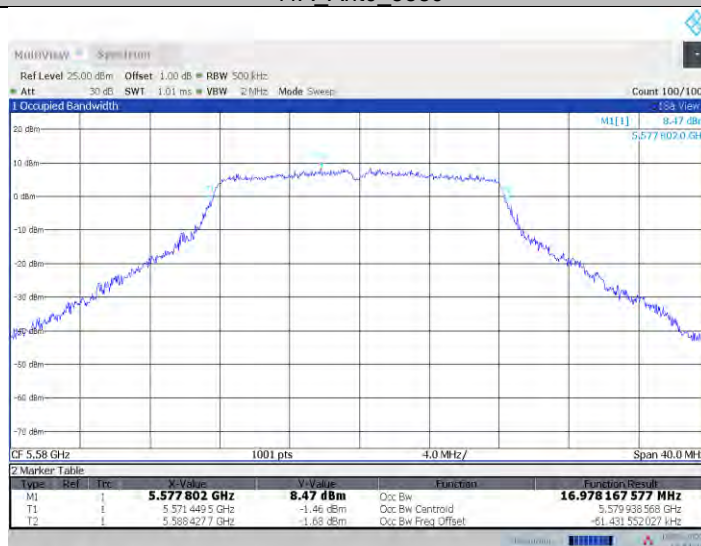
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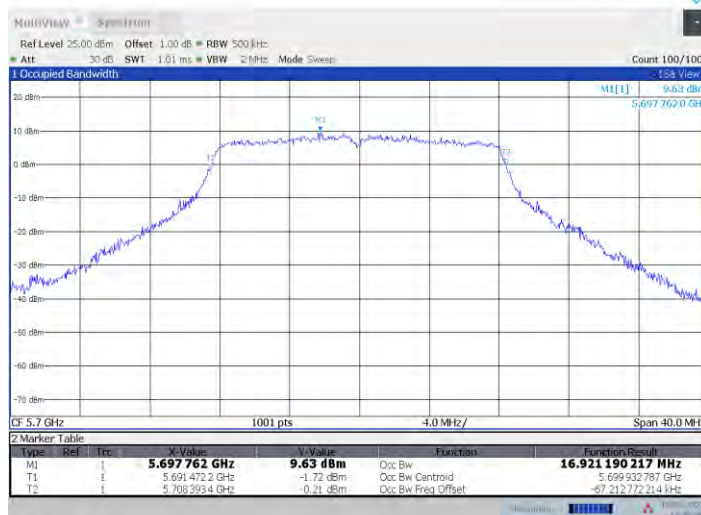
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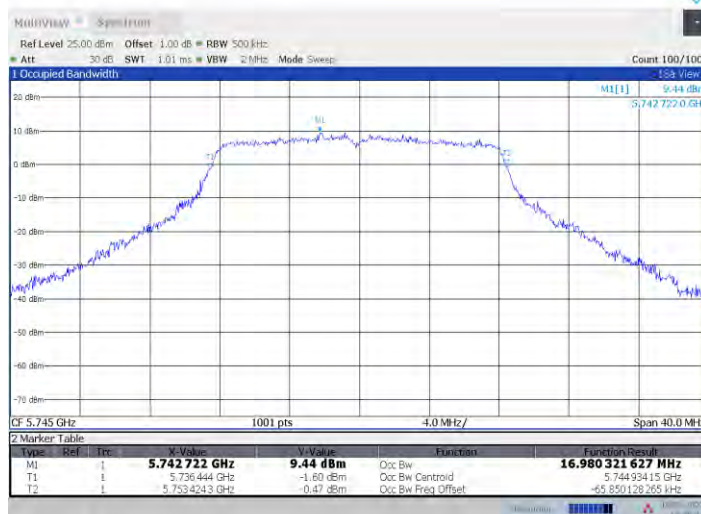
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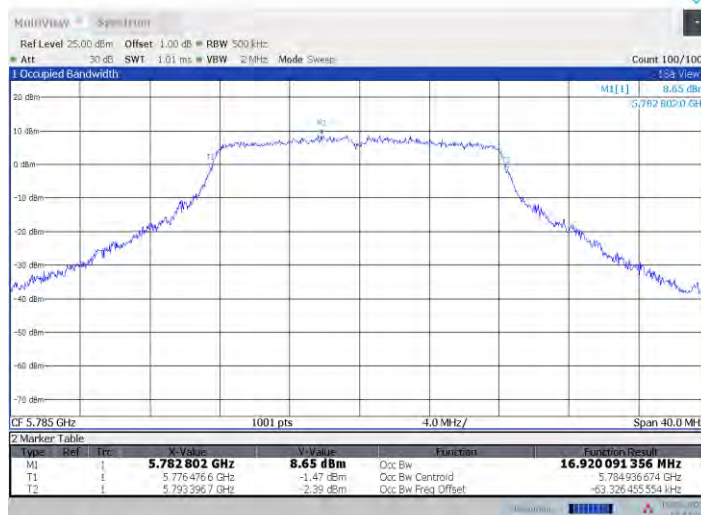
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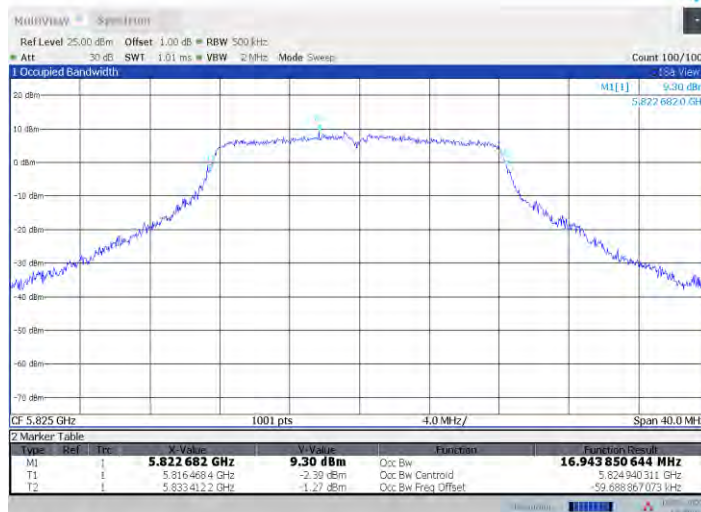
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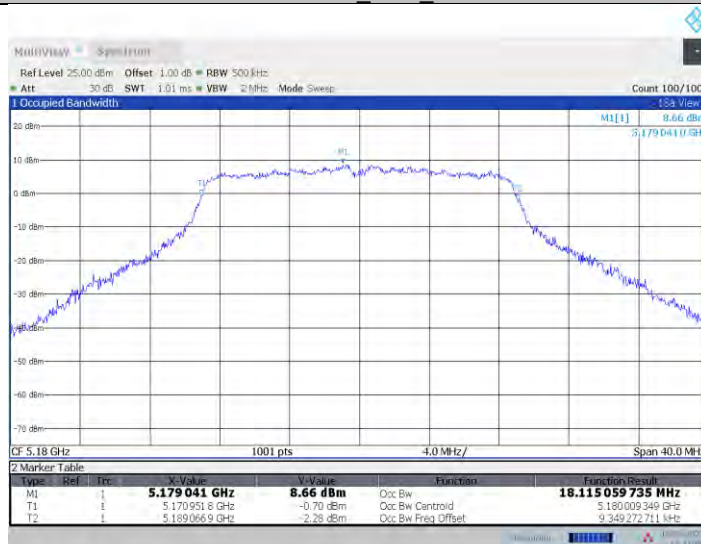
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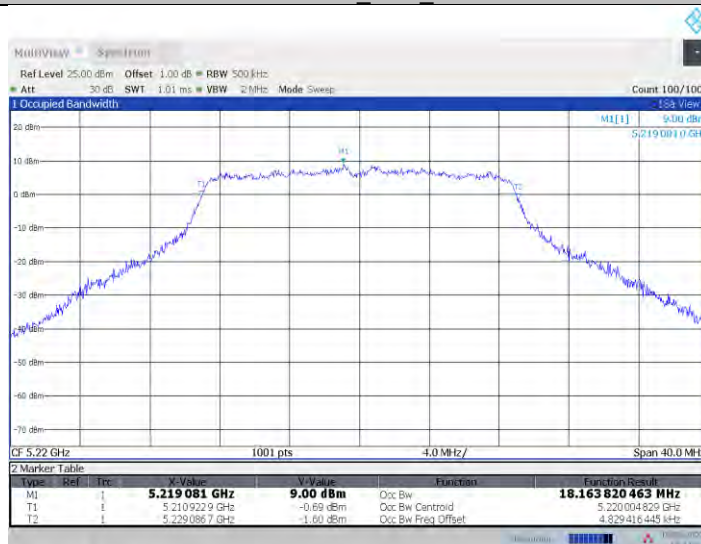
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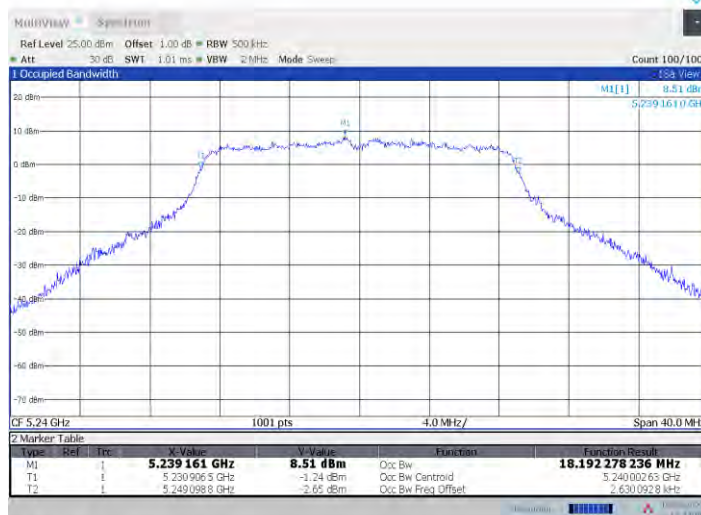
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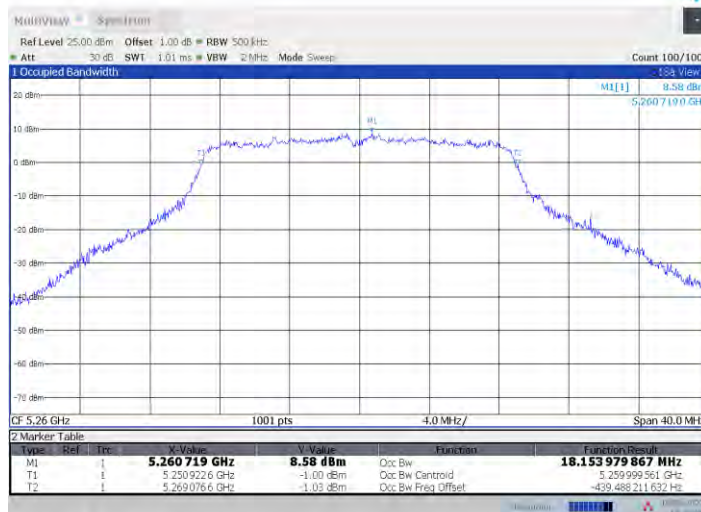
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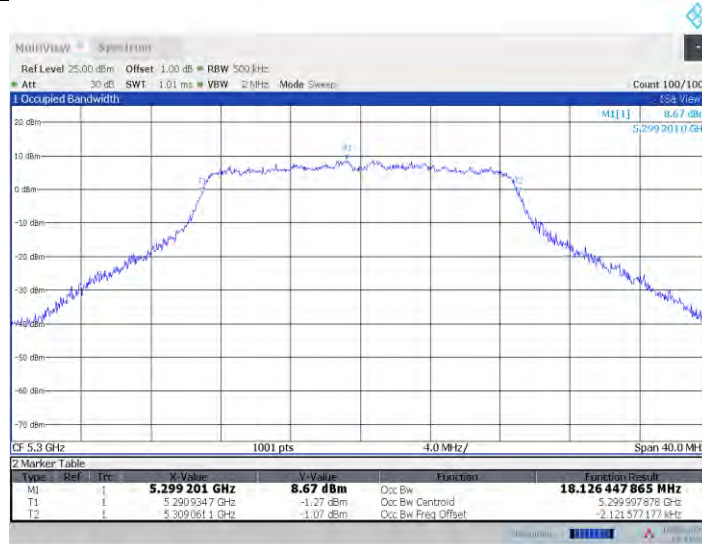
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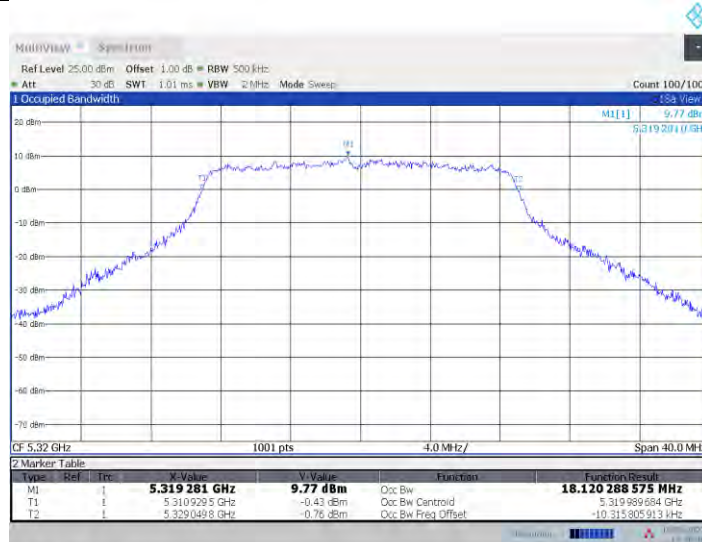
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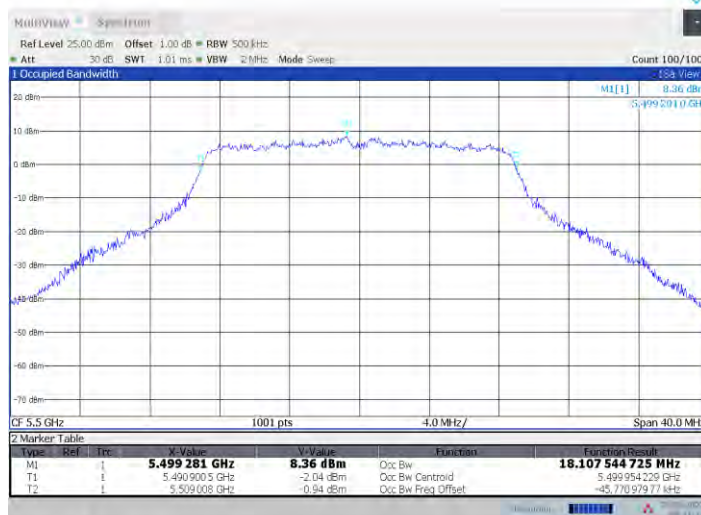
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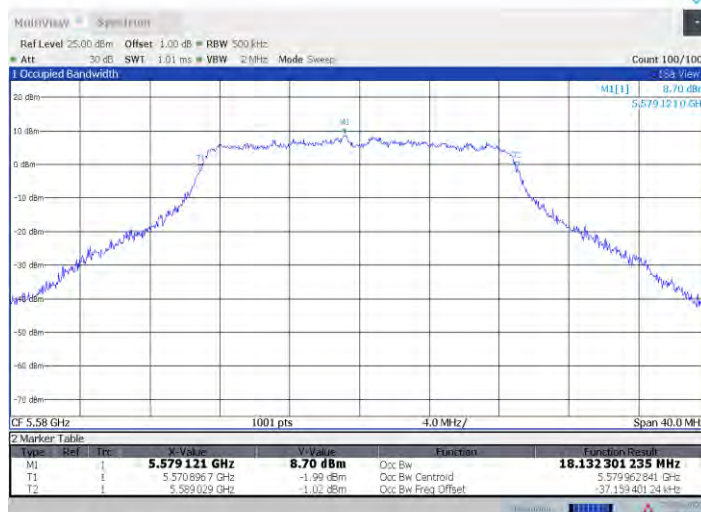
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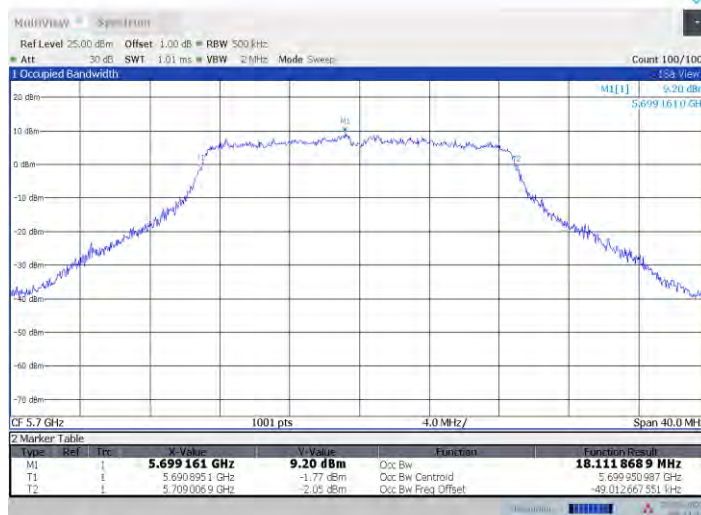
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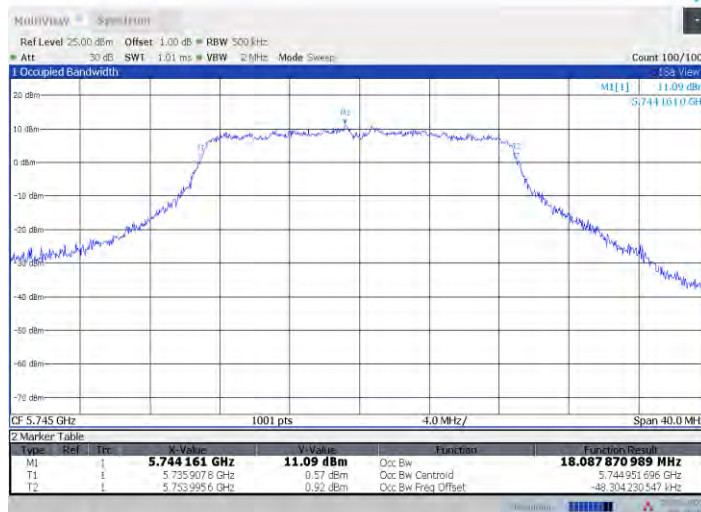
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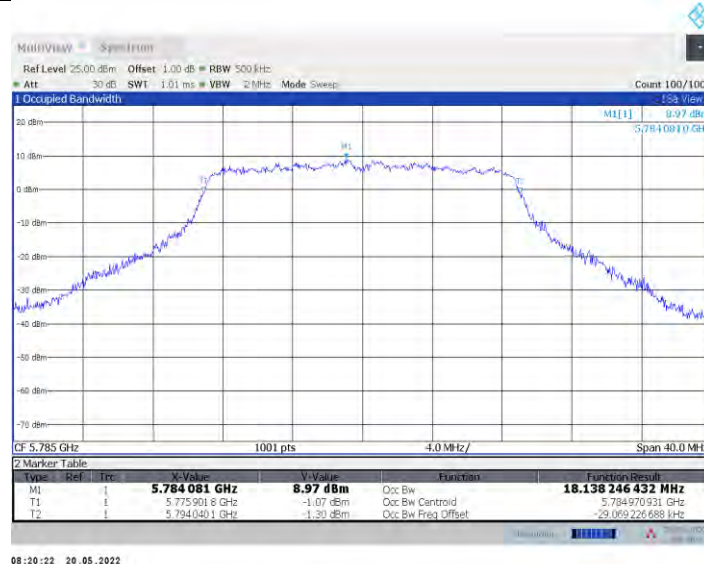
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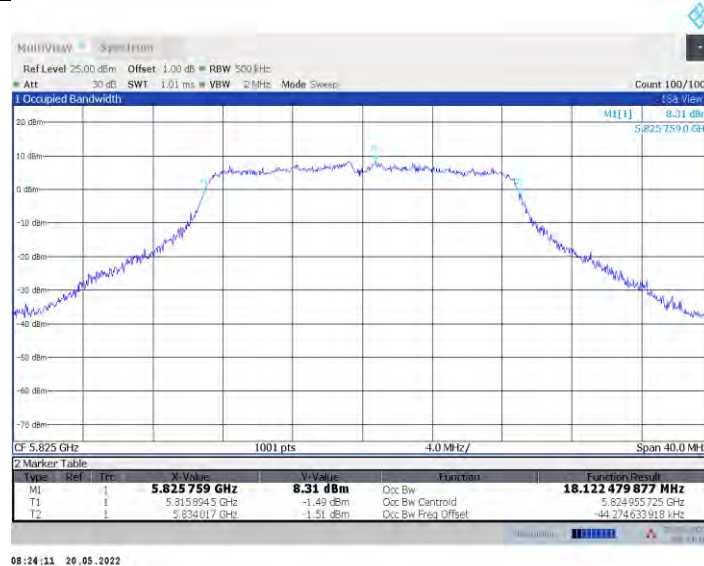
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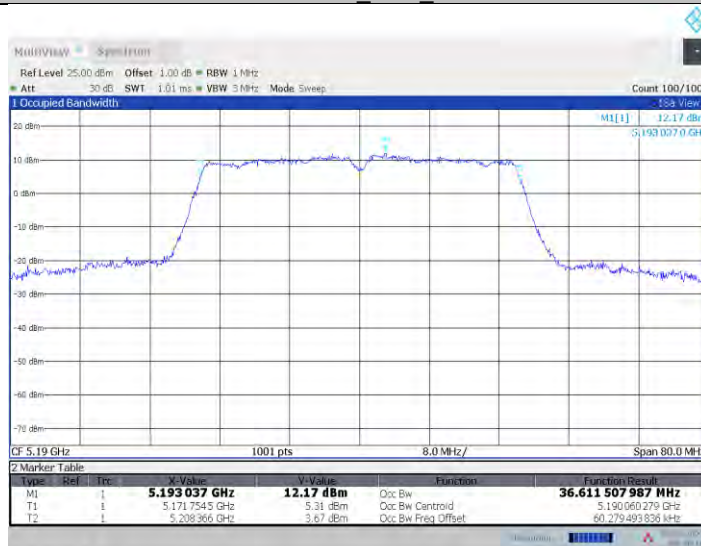
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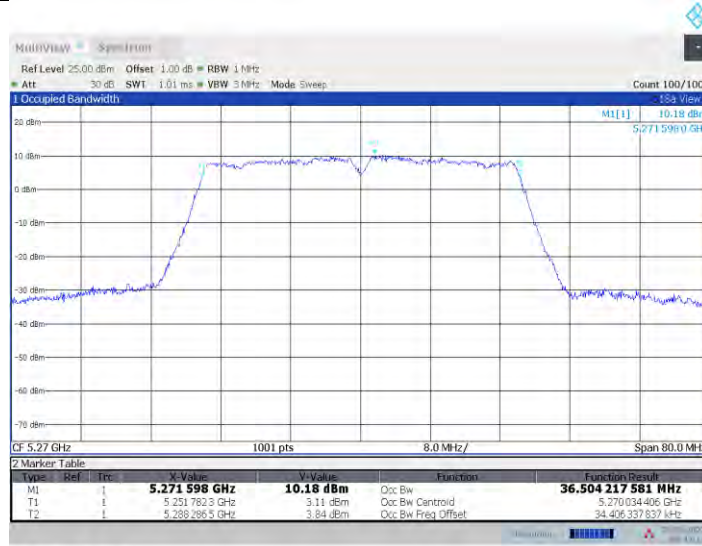
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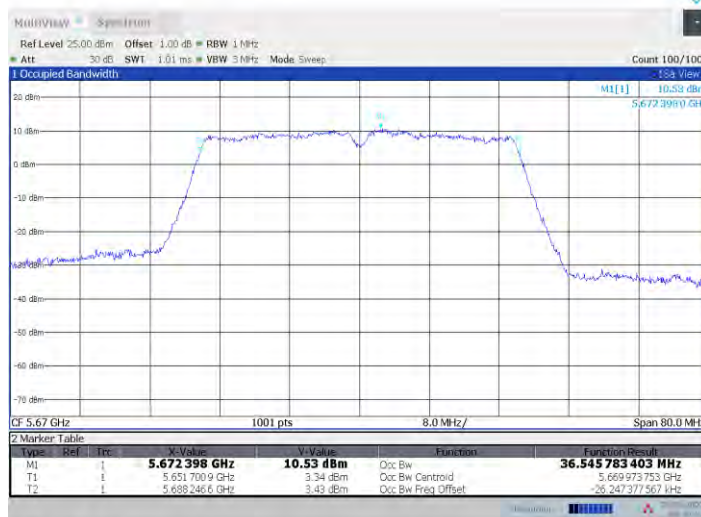
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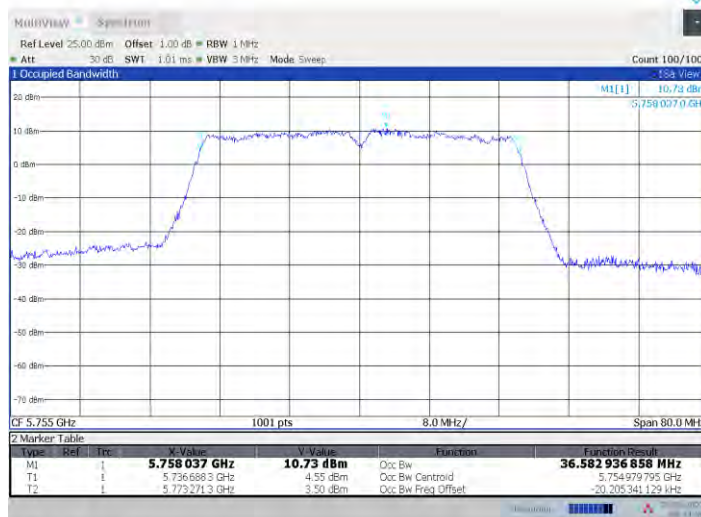
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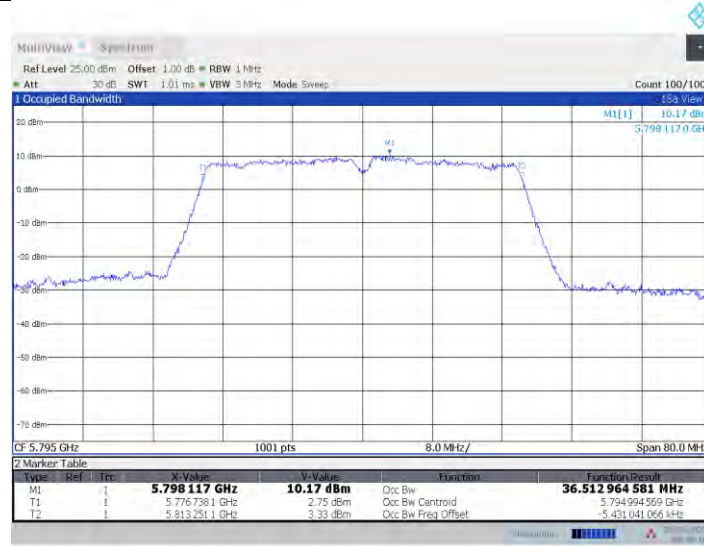
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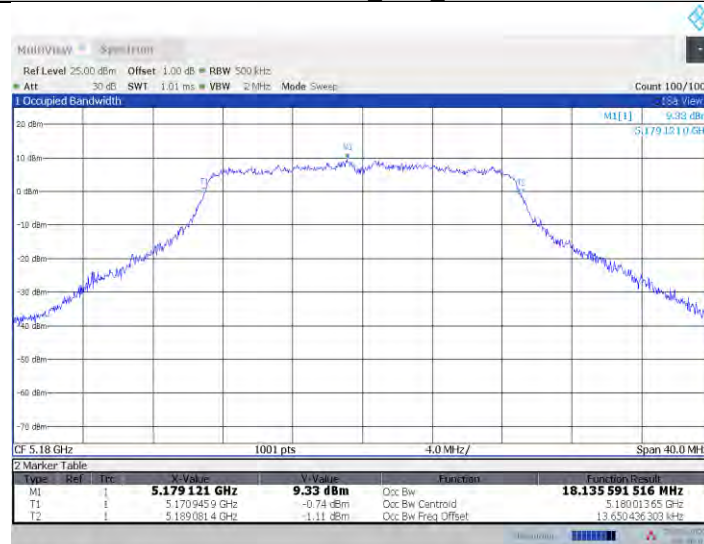
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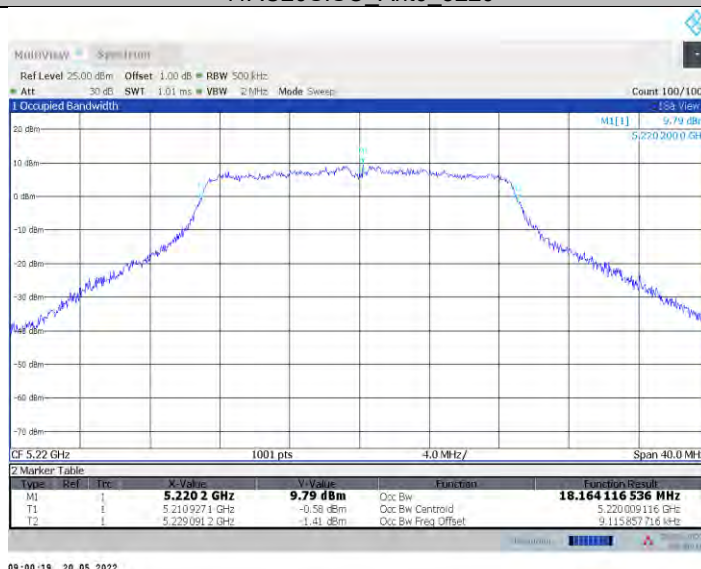
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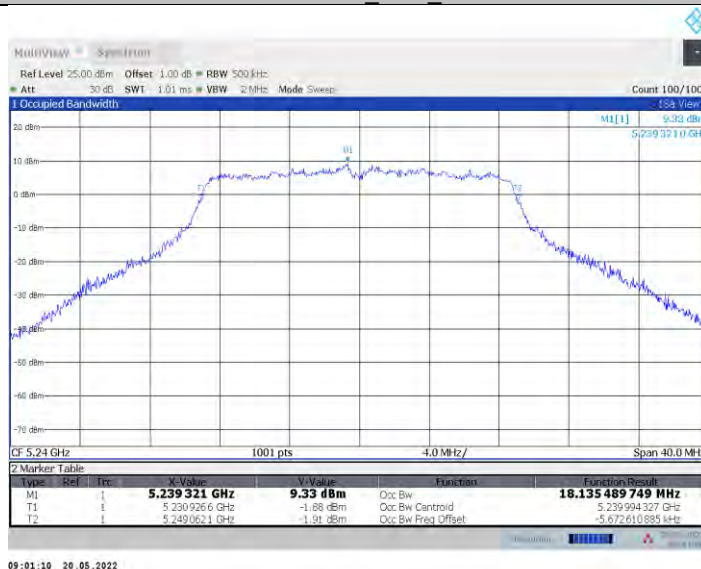
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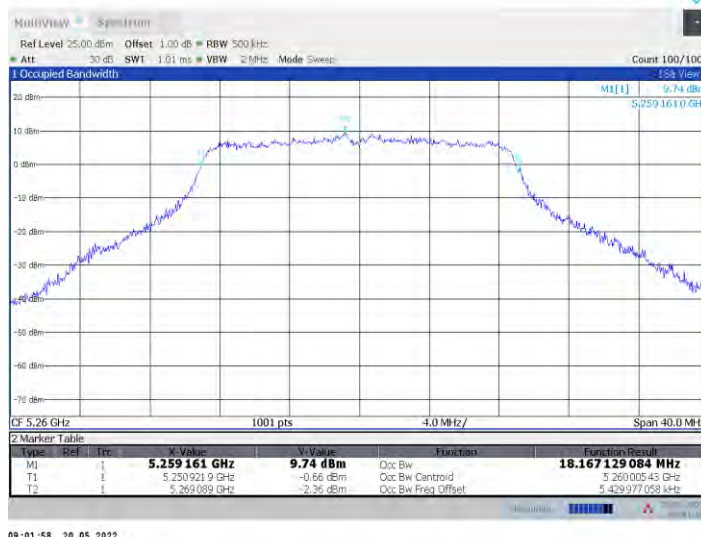
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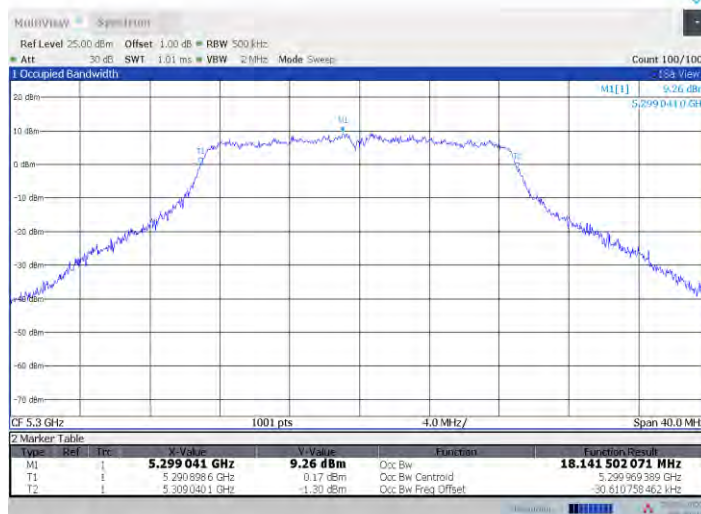
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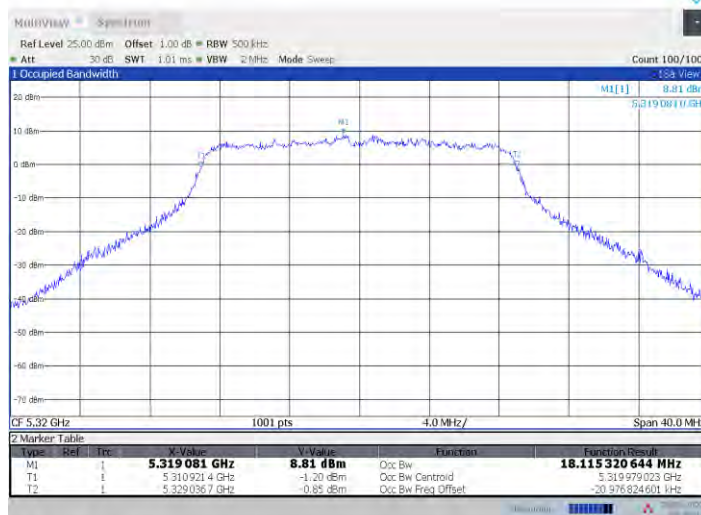
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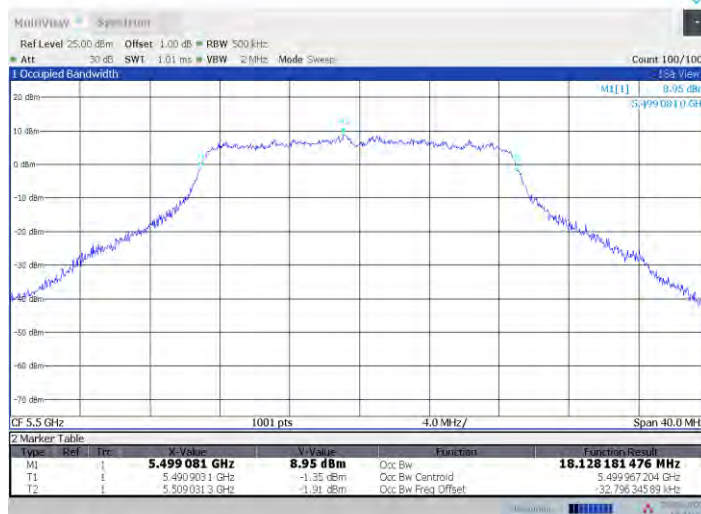
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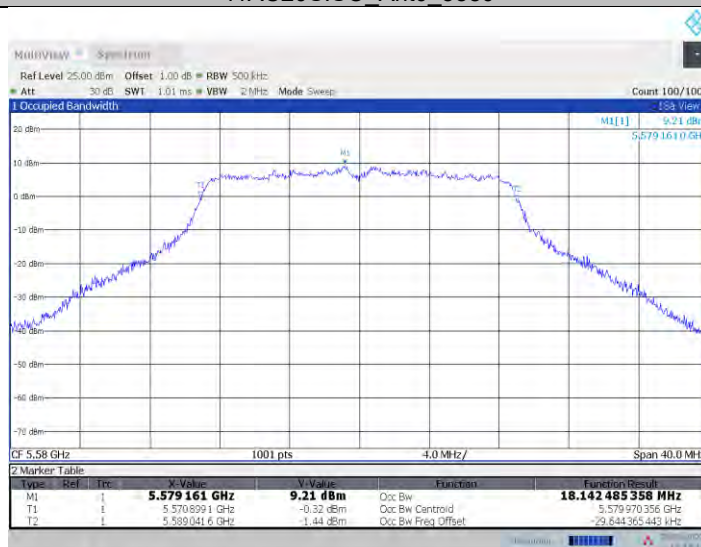
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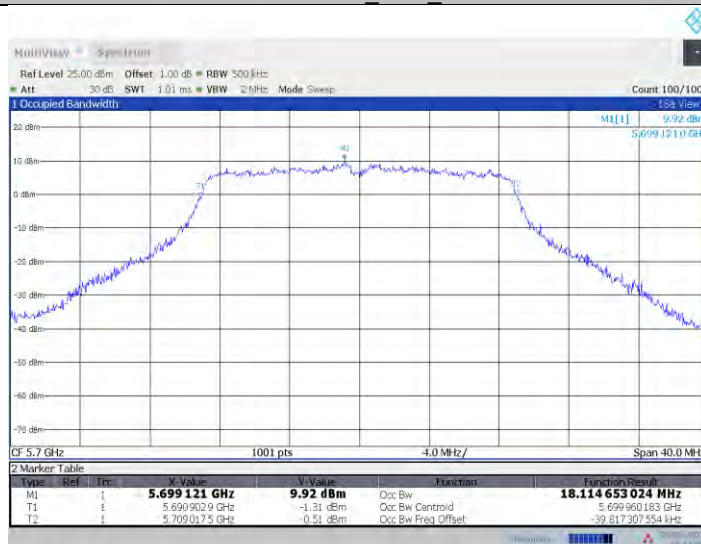
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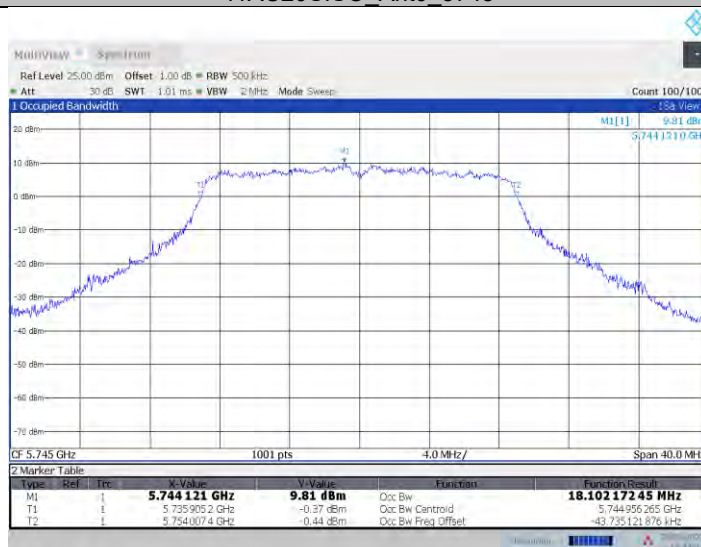
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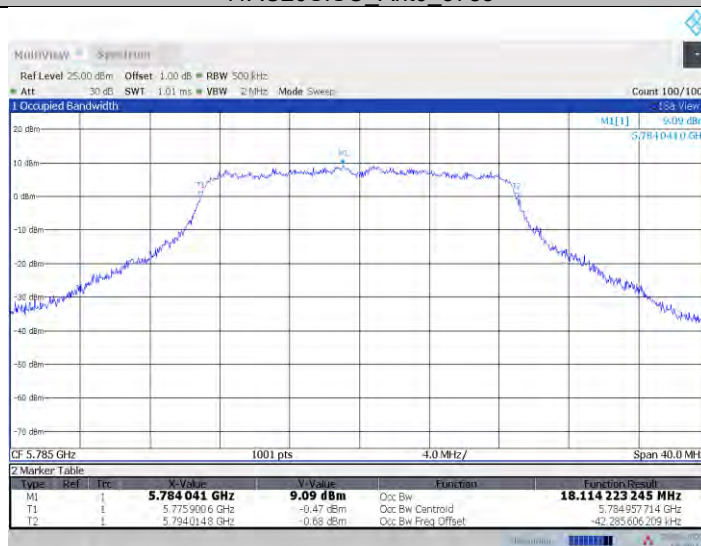
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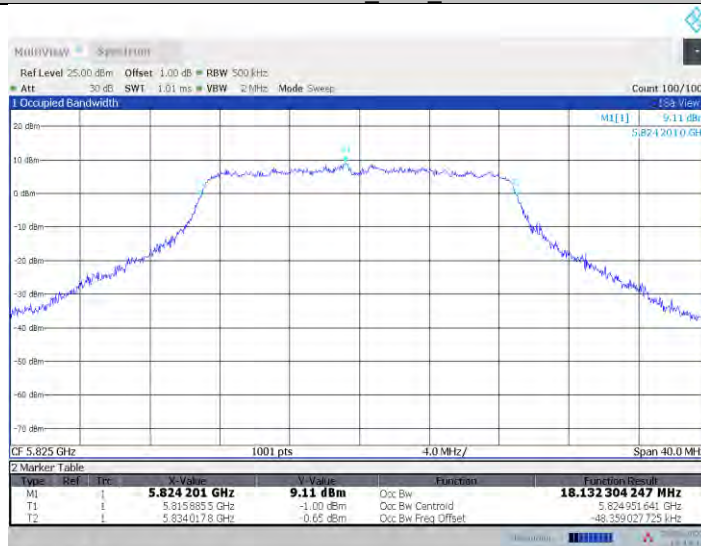
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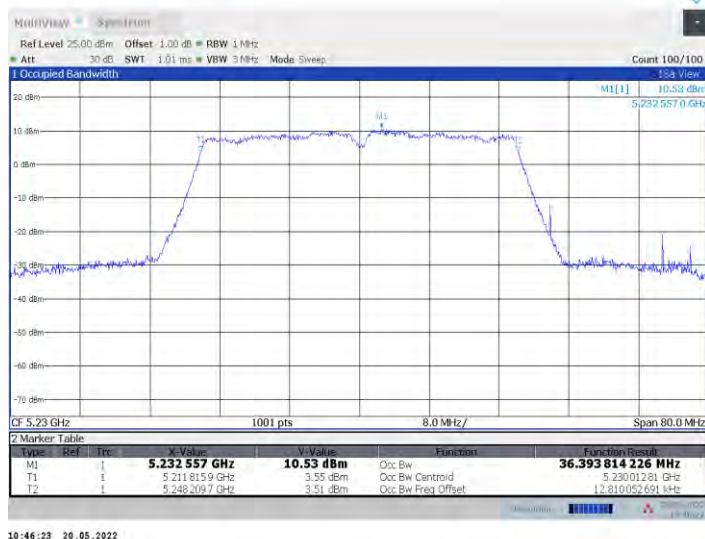
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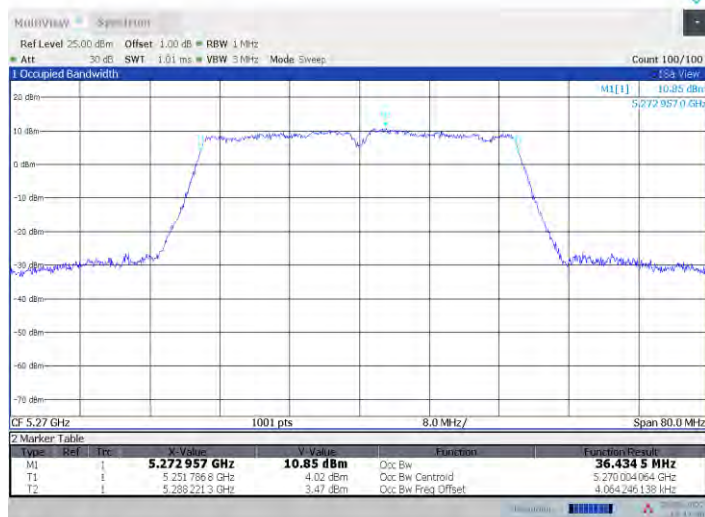
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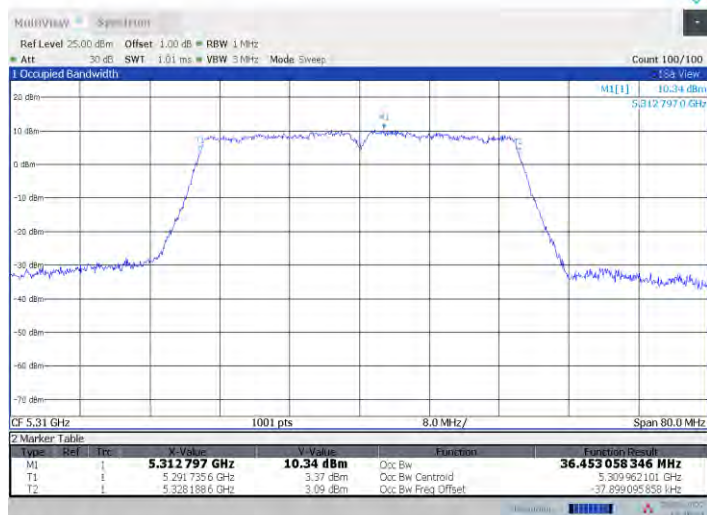
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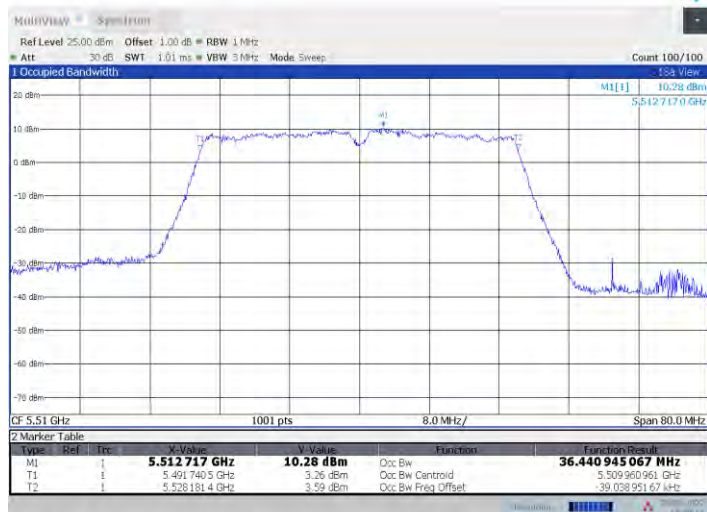
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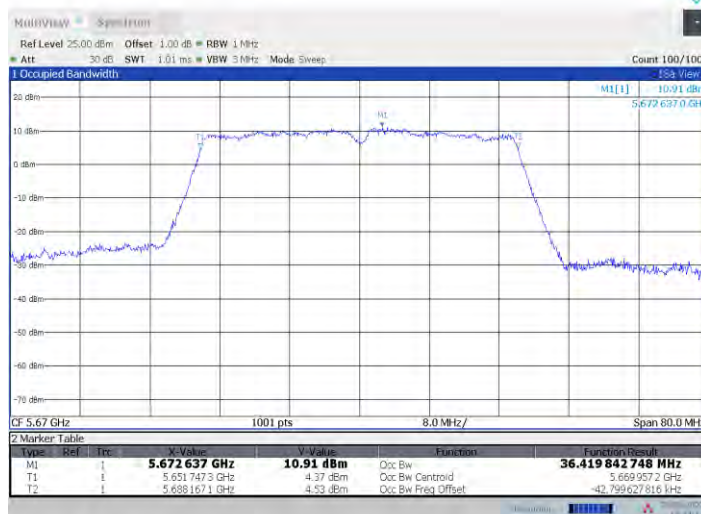
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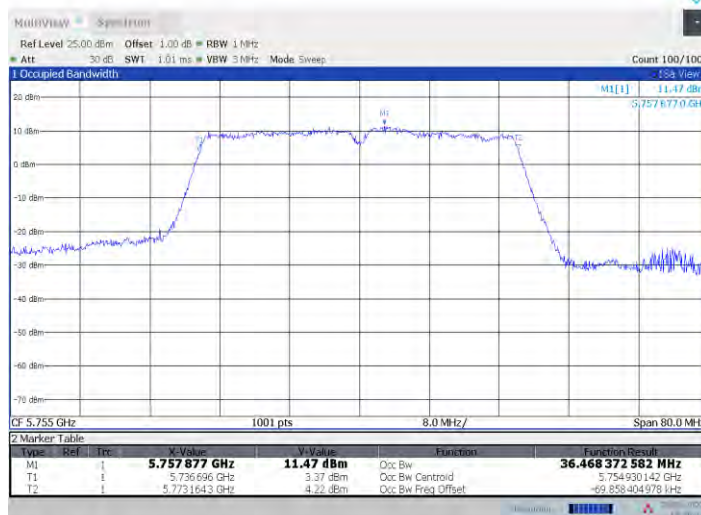
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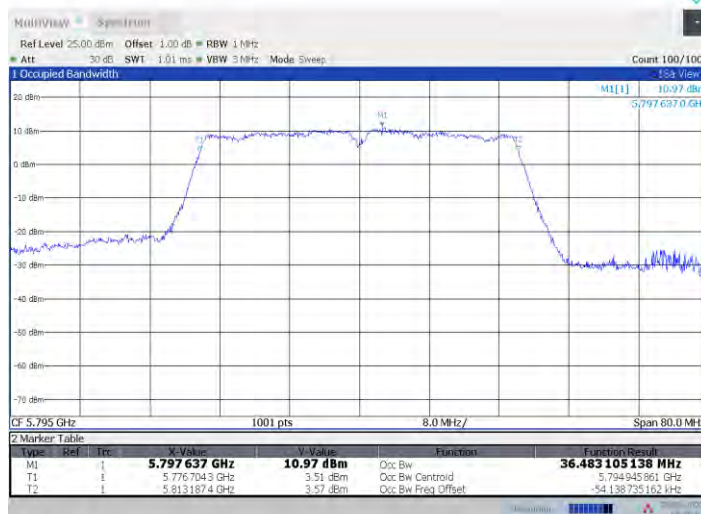
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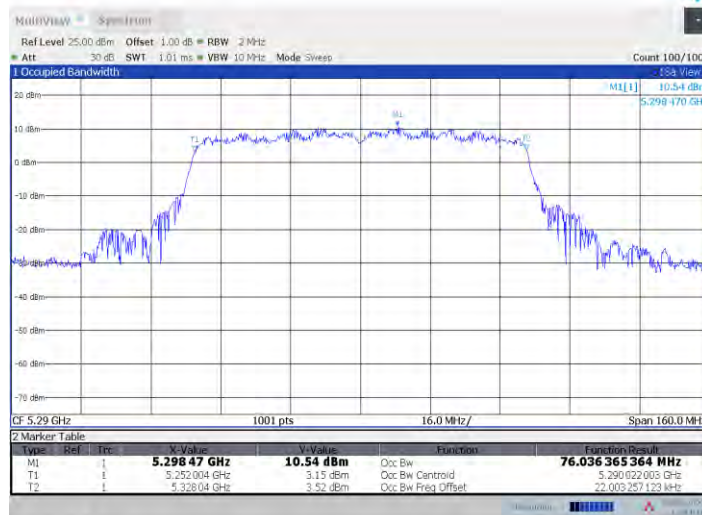
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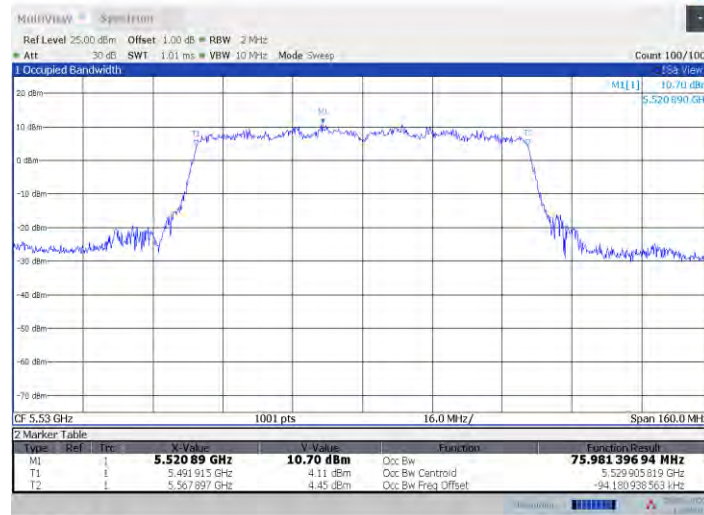
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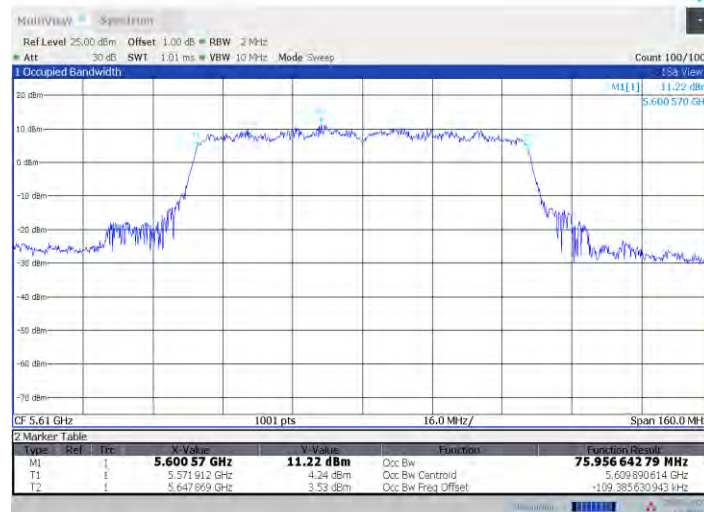
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6dB emission bandwidth Test Result B4

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5745	14.44	5738.08	5752.52	≥ 0.5	PASS
		5785	15.52	5777.20	5792.72	≥ 0.5	PASS
		5825	15.76	5817.08	5832.84	≥ 0.5	PASS
11N20SISO	Ant0	5745	15.96	5736.56	5752.52	≥ 0.5	PASS
		5785	15.40	5777.08	5792.48	≥ 0.5	PASS
		5825	15.44	5817.08	5832.52	≥ 0.5	PASS
11N40SISO	Ant0	5755	35.68	5736.84	5772.52	≥ 0.5	PASS
		5795	35.36	5777.16	5812.52	≥ 0.5	PASS
11AC20SISO	Ant0	5745	16.20	5736.56	5752.76	≥ 0.5	PASS
		5785	16.00	5776.56	5792.56	≥ 0.5	PASS
		5825	15.92	5816.56	5832.48	≥ 0.5	PASS
11AC40SISO	Ant0	5755	35.44	5737.08	5772.52	≥ 0.5	PASS
		5795	35.12	5777.40	5812.52	≥ 0.5	PASS
11AC80SISO	Ant0	5775	75.20	5737.40	5812.60	≥ 0.5	PASS



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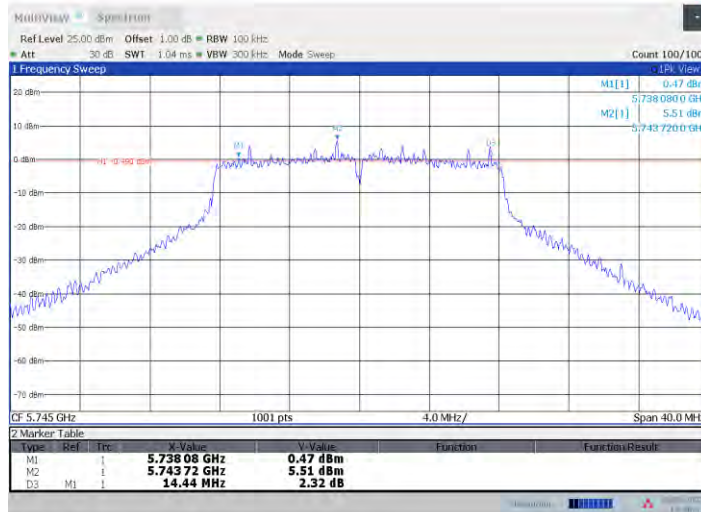
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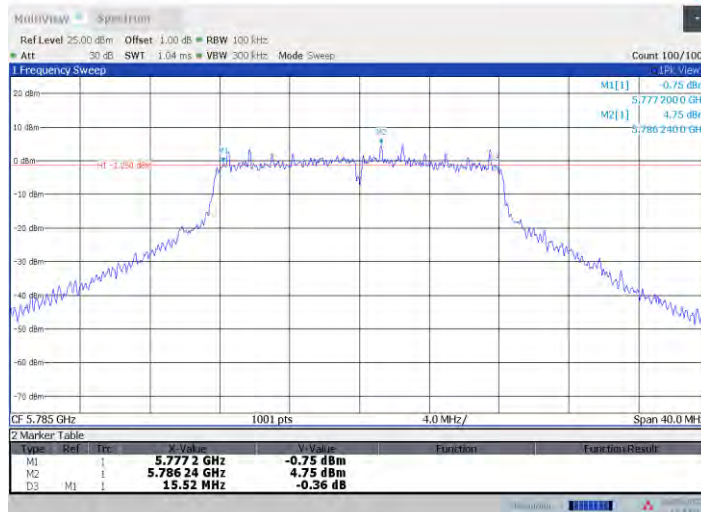
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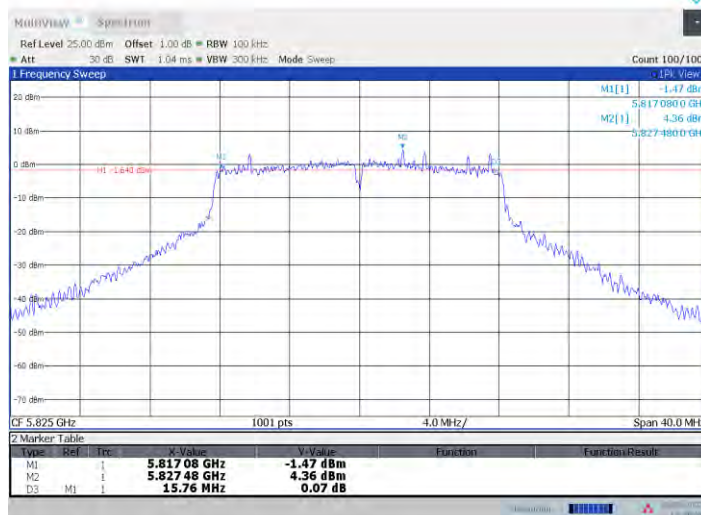
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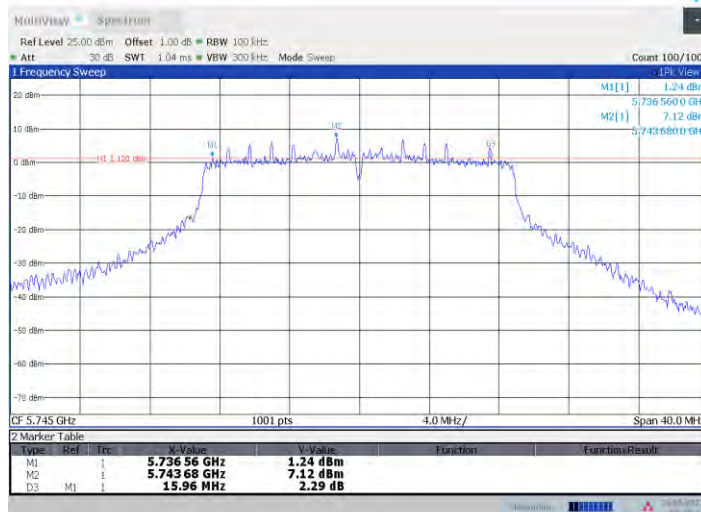
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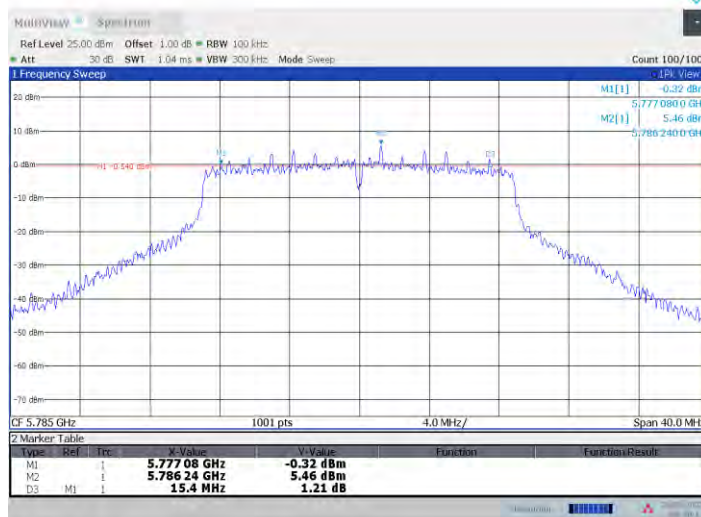
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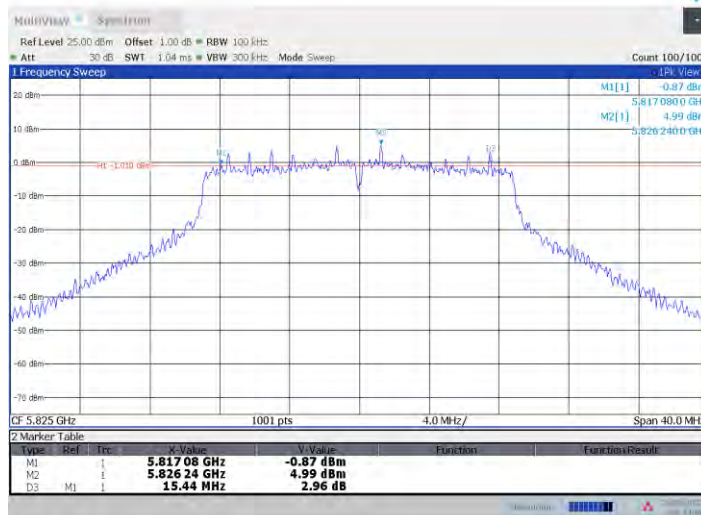
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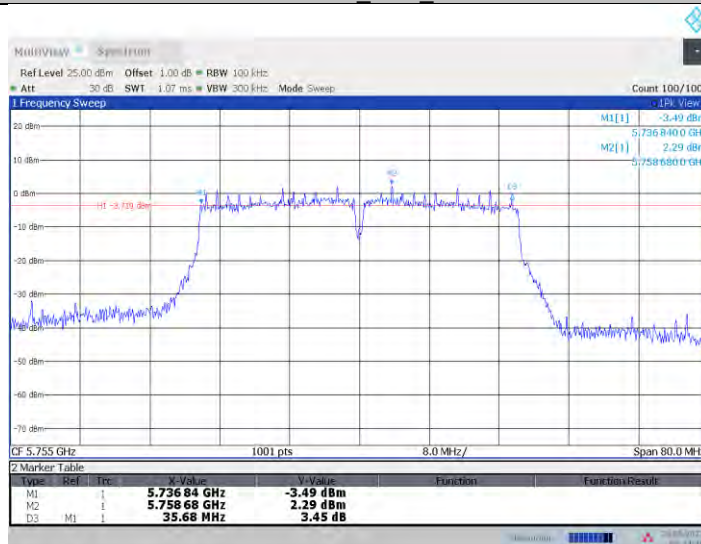
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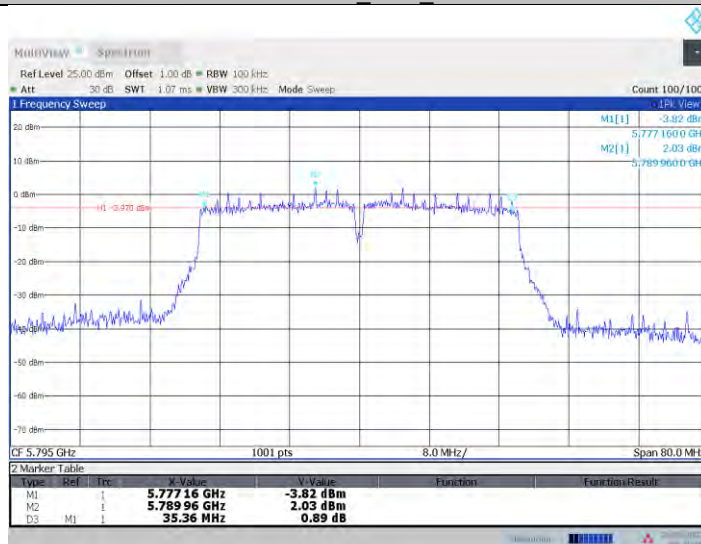
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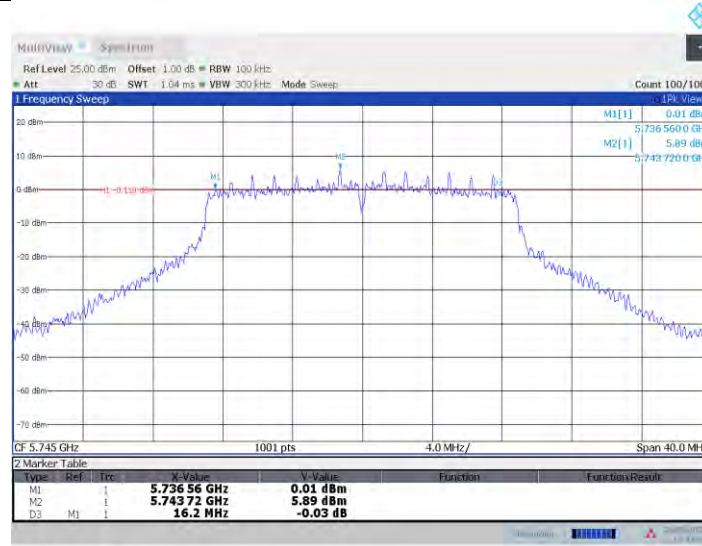
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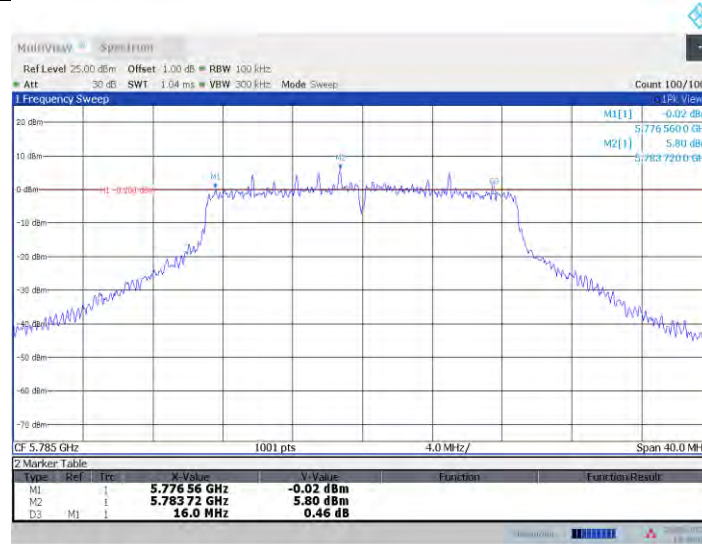
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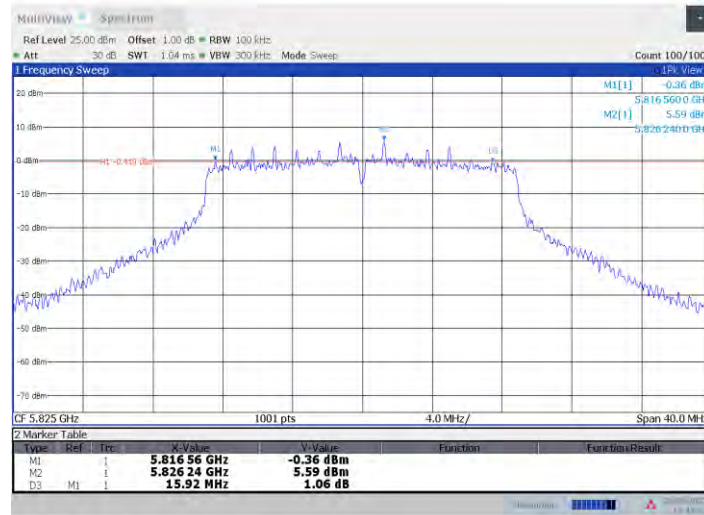
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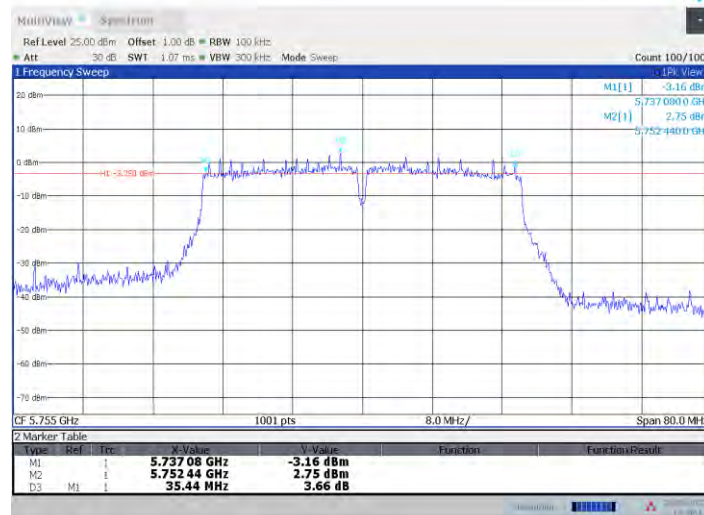
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11AC20SISO_Ant0_5825



10:43:34 20.05.2022

11AC40SISO_Ant0_5755



10:56:13 20.05.2022



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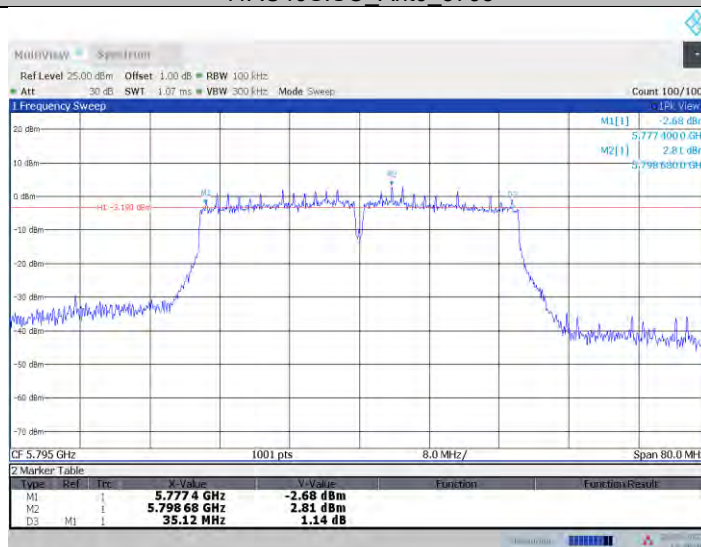
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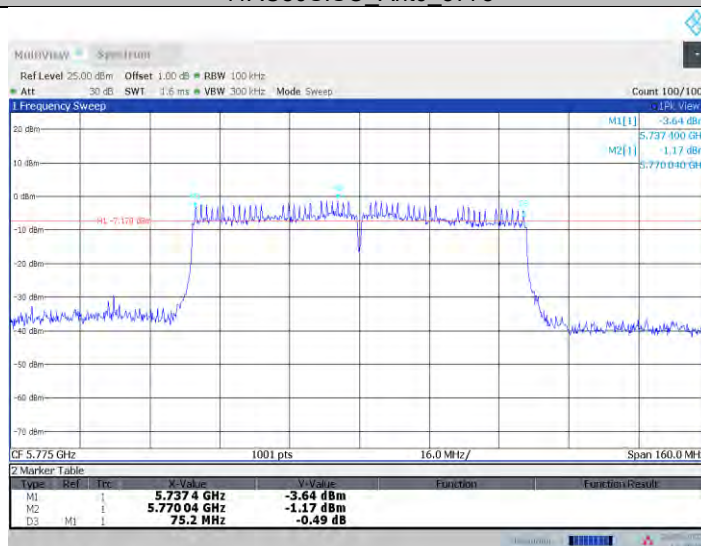
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11AC40SISO_Ant0_5795



10:58:46 20.05.2022

11AC80SISO_Ant0_5775



11:08:59 20.05.2022



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Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Conducted power [dBm]	Limit [dBm]	Verdict
11A	Ant0	5180	14.42	≤23.98	PASS
		5220	14.61	≤23.98	PASS
		5240	14.39	≤23.98	PASS
		5260	14.57	≤23.98	PASS
		5300	14.64	≤23.98	PASS
		5320	14.62	≤23.98	PASS
		5500	14.2	≤23.98	PASS
		5580	14.45	≤23.98	PASS
		5700	15.35	≤23.98	PASS
		5745	15.21	≤30.00	PASS
		5785	14.87	≤30.00	PASS
11N20SISO	Ant0	5825	14.84	≤30.00	PASS
		5180	14.64	≤23.98	PASS
		5220	14.68	≤23.98	PASS
		5240	14.1	≤23.98	PASS
		5260	14.62	≤23.98	PASS
		5300	14.7	≤23.98	PASS
		5320	13.92	≤23.98	PASS
		5500	14.23	≤23.98	PASS
		5580	14.49	≤23.98	PASS
		5700	14.01	≤23.98	PASS
		5745	15.28	≤30.00	PASS
11N40SISO	Ant0	5785	14.9	≤30.00	PASS
		5825	14.33	≤30.00	PASS
		5190	13.23	≤23.98	PASS
		5230	15.18	≤23.98	PASS
		5270	15.52	≤23.98	PASS
		5310	15.26	≤23.98	PASS
		5510	15.77	≤23.98	PASS
		5550	15.04	≤23.98	PASS
11AC20SISO	Ant0	5670	15.75	≤23.98	PASS
		5755	15.41	≤30.00	PASS
		5795	15.34	≤30.00	PASS
		5180	15.17	≤23.98	PASS
		5220	15.26	≤23.98	PASS
		5240	14.63	≤23.98	PASS
		5260	15.1	≤23.98	PASS
		5300	15.22	≤23.98	PASS
		5320	14.6	≤23.98	PASS
		5500	14.66	≤23.98	PASS
		5580	14.96	≤23.98	PASS
11AC40SISO	Ant0	5700	15.42	≤23.98	PASS
		5745	15.75	≤30.00	PASS
		5785	15.4	≤30.00	PASS
		5825	14.92	≤30.00	PASS
		5190	13.43	≤23.98	PASS
		5230	15.57	≤23.98	PASS
		5270	15.91	≤23.98	PASS
		5310	14.92	≤23.98	PASS
		5510	15.36	≤23.98	PASS
		5550	15.63	≤23.98	PASS
		5670	16.24	≤23.98	PASS



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		5755	16.36	≤30.00	PASS
		5795	16.21	≤30.00	PASS
11AC80SISO	Ant0	5210	13.68	≤23.98	PASS
		5290	13.88	≤23.98	PASS
		5530	13.87	≤23.98	PASS
		5610	14.24	≤23.98	PASS
		5775	15.12	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.



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