

Report No.: SEWM2209000195RG04

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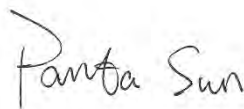
TEST REPORT

Application No.: SEWM2209000195RG
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: Smart Module
Model No.: SC206E-WF
Trade Mark: QUECTEL
FCC ID: XMR2022SC206EWF
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2022/05/07
Date of Test: 2022/05/10 to 2022/05/30 (for original report SEWA2205000012RG05)
2022/10/30 to 2022/12/06 (for new report SEWM2209000195RG04)
Date of Issue: 2022/12/08

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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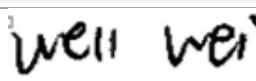
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/12/08		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	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*Ig(EBW)}		
	Band II-C		< 1W		
	Band III	15.407(a)(3)			
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		<30dBm/500KHz		
	Band III	15.407(a)(3)			
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	Band I	15.209 15.407(b)	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.9	PASS
	Band II-A	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
	Band II-C	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
	Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP)		PASS



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			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/§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
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	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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Remark for SEWA2205000012RG05 issue on 2022/06/08:

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.

Remark for SEWM2209000195RG04 issue on 2022/12/08:

This test report (Report No.: SEWM2209000195RG04 issue on 2022/12/08) is based on the original test report (Report No.: SEWA2205000012RG05 issue on 2022/06/08).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report only the items of Power, AC Power Line Conducted Emission and Dynamic Frequency Selection were fully tested, radiated spurious emissions and Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number SEWA2205000012RG05 issue on 2022/06/08 and other test data in this report are based on the previous report with report number SEWA2205000012RG05 issue on 2022/06/08.



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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:	King-p Li, 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.:	SC206E-WF	
Trade Mark:	QUECTEL	
Hardware Version:	LPDDR4X: R1.0	
Software Version:	SC206EWFNAR60A02	
SN:	E1C22HO20000032	
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:	5150MHz to 5250MHz: -0.67dBi(Ant0); 5250MHz to 5350MHz: -0.19dBi(Ant0); 5470MHz to 5725MHz: 1.28dBi(Ant0); 5725MHz to 5850MHz: 1.1dBi(Ant0);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
TPC Function:	☒ Support, ☐ Not Support	
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
DFS Function:	☐ Diversity	802.11a: Tx & Rx
	☐ Master	
RF Cable:	☐ Slave with radar detection	☒ Slave without radar detection
	2.0dB	



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Remark:

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Remark:

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

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

For UNII Band I:

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

For UNII Band II-A:

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



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

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

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
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 and 802.11ac VHT20.
2. The above Frequency and Channel were 802.11n HT40 and 802.11ac VHT40.
3. The above Frequency and Channel were 802.11ac VHT80.



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.8
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.
Mother board*	QUECTEL	SMART-EVB-G2_V1.3
Adapter*	Something High Innovation (B.V.I.) Co., Ltd	P12F050200
Router	ASUS	GT-AXE11000 (FCC ID MSQ-RTAXJF00)
Remark: the information with "*" 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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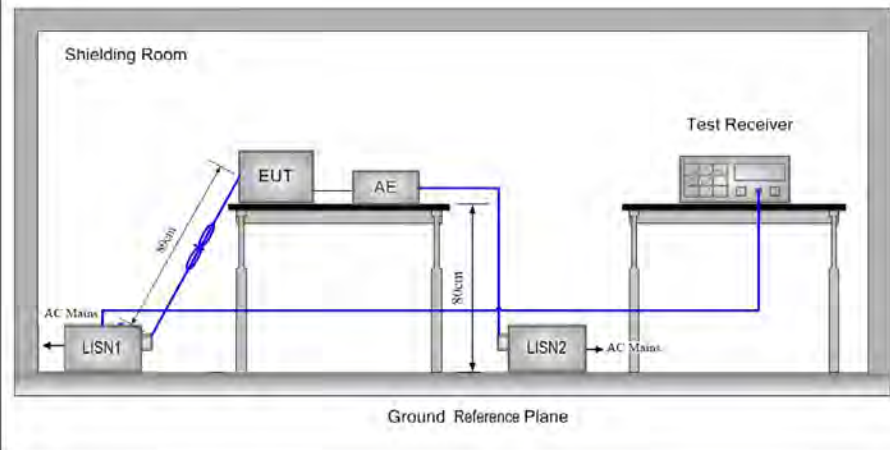
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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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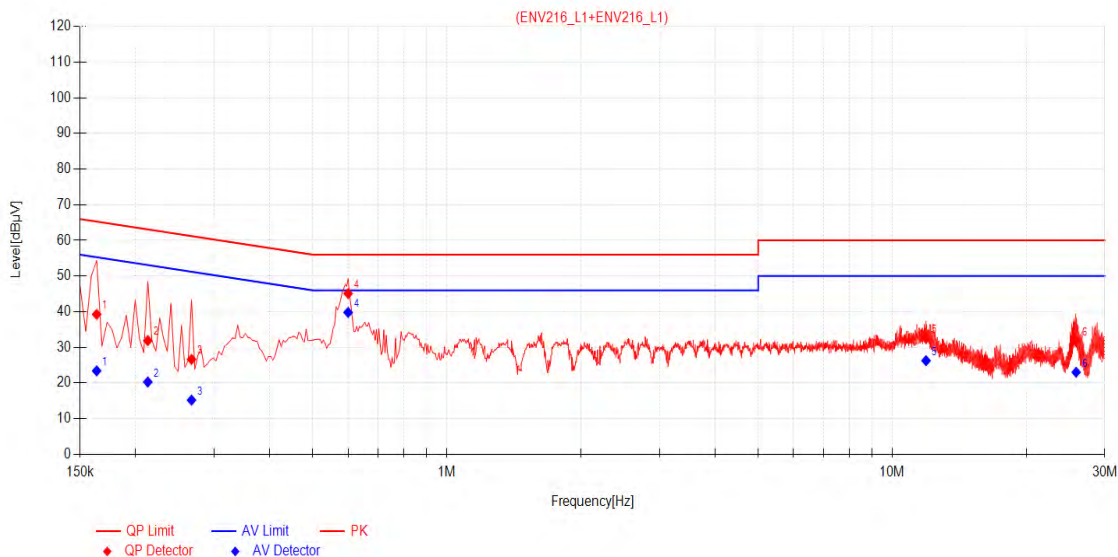
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Measurement Data

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.

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



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1635	10.69	28.57	39.26	65.28	26.02	12.72	23.41	55.28	31.87	PASS
2	0.2130	10.81	21.11	31.92	63.09	31.17	9.47	20.28	53.09	32.81	PASS
3	0.2670	10.74	15.89	26.63	61.21	34.58	4.47	15.21	51.21	36.00	PASS
4	0.6000	10.50	34.59	45.09	56.00	10.91	29.30	39.80	46.00	6.20	PASS
5	11.9085	10.59	21.88	32.47	60.00	27.53	15.67	26.26	50.00	23.74	PASS
6	25.8765	10.29	21.46	31.75	60.00	28.25	12.74	23.03	50.00	26.97	PASS

Remark:

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



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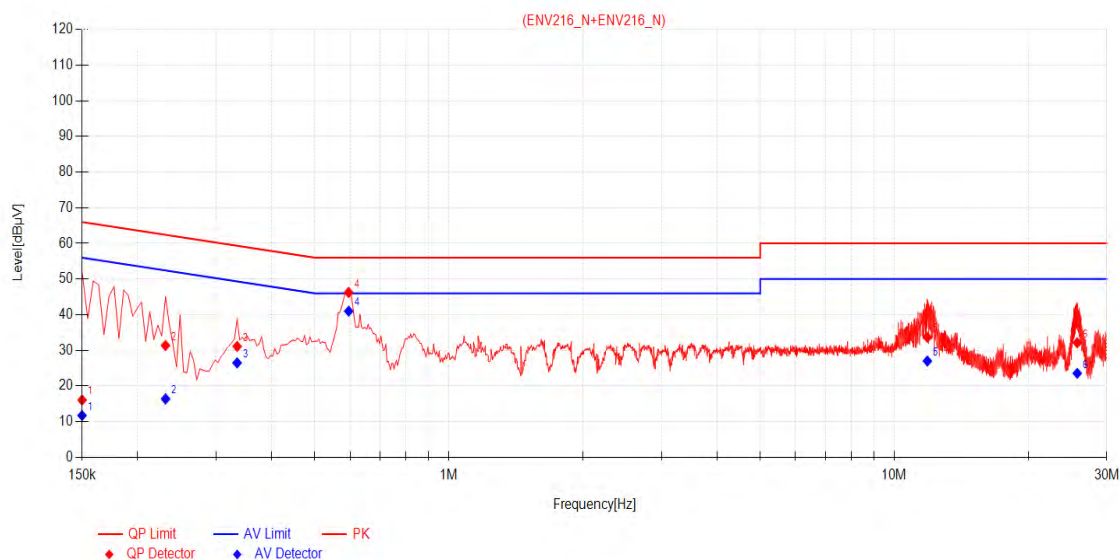
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Phase: Neutral



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	0.1500	10.73	5.34	16.07	66.00	49.93	1.00	11.73	56.00	44.27	PASS
2	0.2310	10.70	20.68	31.38	62.41	31.03	5.69	16.39	52.41	36.02	PASS
3	0.3345	10.79	20.32	31.11	59.34	28.23	15.70	26.49	49.34	22.85	PASS
4	0.5955	10.69	35.54	46.23	56.00	9.77	30.30	40.99	46.00	5.01	PASS
5	11.8680	10.65	23.01	33.66	60.00	26.34	16.36	27.01	50.00	22.99	PASS
6	25.7595	10.52	21.62	32.14	60.00	27.86	13.04	23.56	50.00	26.44	PASS

Remark:

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



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4.3 Duty Cycle

The detailed test data see: **Appendix**



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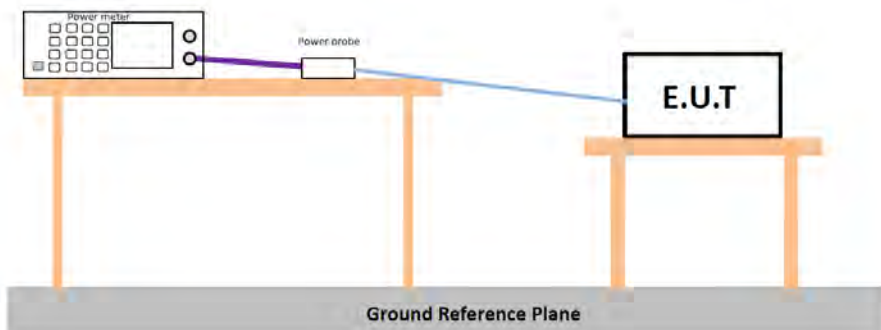
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4.4 Conducted Output Power

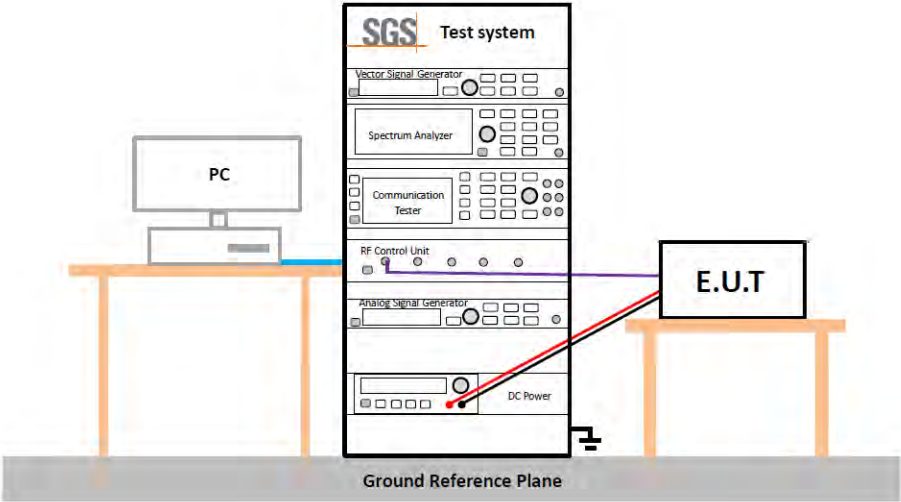
Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013 Section 12.3.3	
Test Setup:	 * Test with power meter (Detector function: Average)	
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final 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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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013 Section 12.4.1
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	



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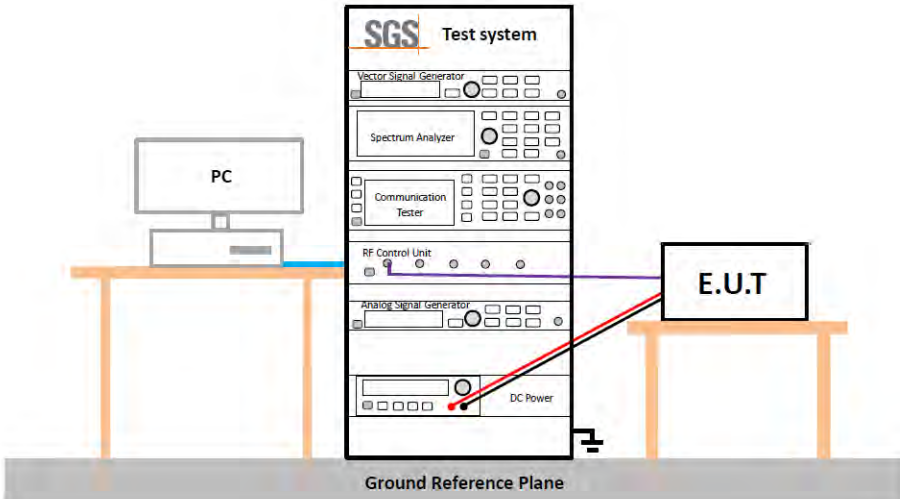
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4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)		
Test Method:	ANSI C63.10: 2013 Section 12.4.1		
Test Setup:			
Test Instruments:	Refer to section 6 for details.		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Refer to section 3.7 for details.		
Limit:	Frequency Band	Limit	
	5725-5850MHz	At lease 500kHz	
Test Results:	Pass		
The detailed test data see: Appendix			



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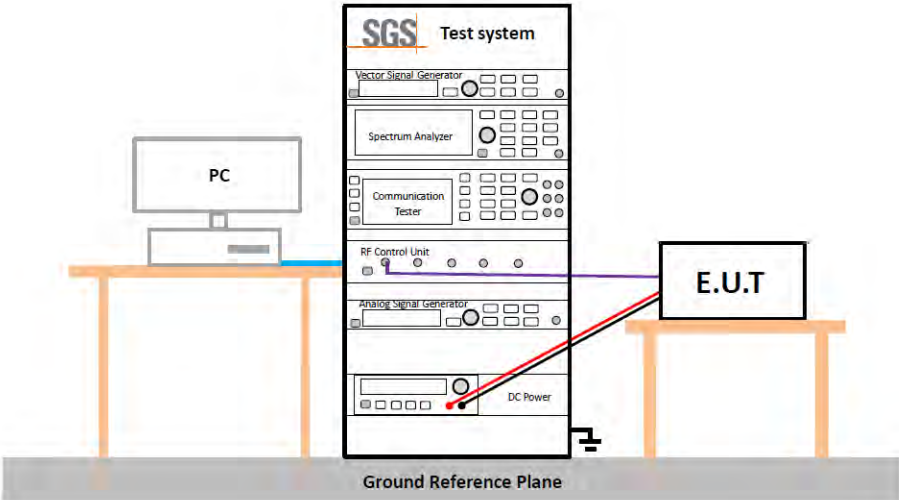
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4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013 Section 12.4.2
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	



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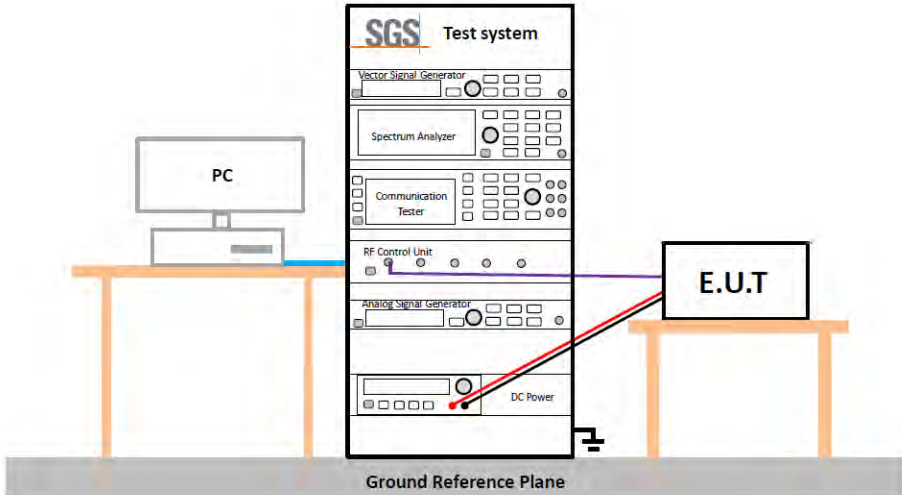
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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 Section 12.5 KDB 789033 D02 v02r01, Section F.	
Test Setup:		
Instruments Used:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 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 frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

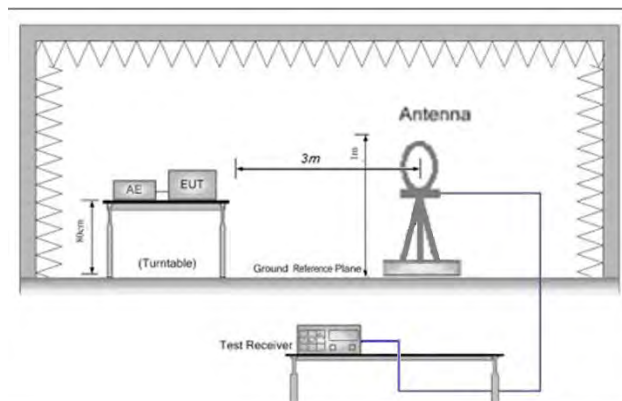


Figure 1. 9kHz to 30MHz

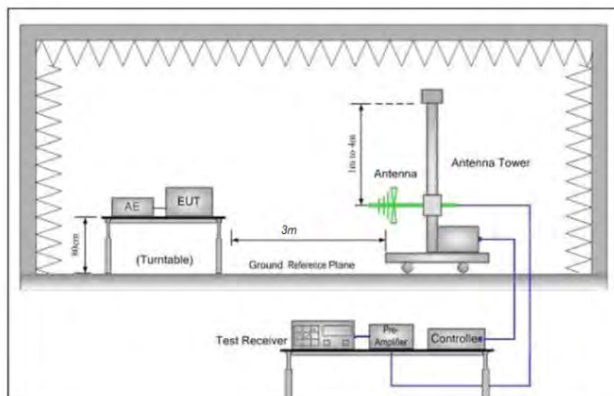


Figure 1. 30MHz to 1GHz

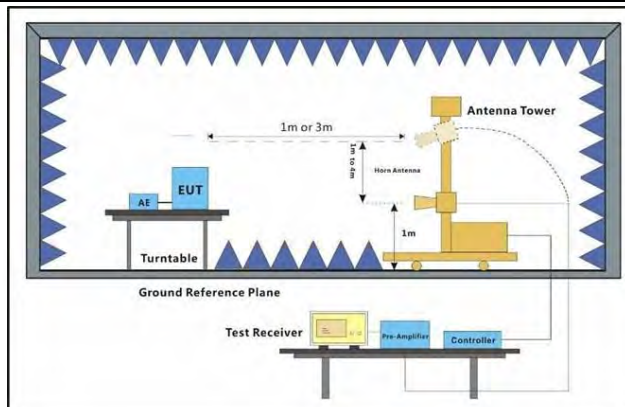


Figure 2. Above 1 GHz

Test Procedure:

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

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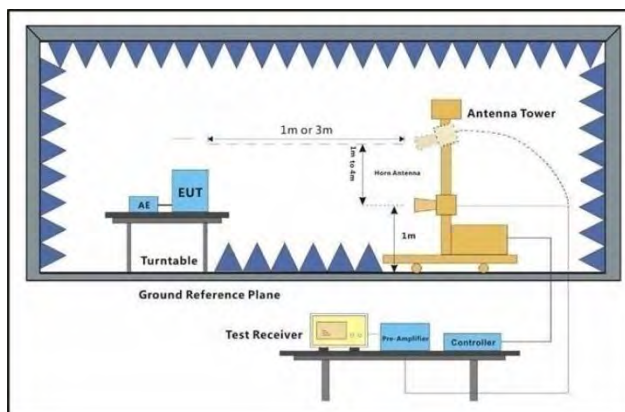
	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified 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 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 span / (# 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.
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	



4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 12.7		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:



Test Procedure:

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

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	Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	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 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW $\geq$ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq$ (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.
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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4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		



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4.11.2 DFS Detection Thresholds

**Table 3: DFS Detection Thresholds for Master Devices
and Client Devices with Radar Detection**

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP $<$ 200 milliwatt and power spectral density $<$ 10 dBm/MHz	-62 dBm
EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	



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4.11.3 RADAR TEST WAVEFORMS

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					



Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60%
3	30	27	90%
4	50	44	88%
Aggregate $(82.9\% + 60\% + 90\% + 88\%) / 4 = 80.2\%$			



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Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

4.11.4 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

The detailed test data see: **Appendix**



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 -30MHz)
		$\pm 4.80\text{dB}$ (30M -1GHz)
		$\pm 4.80\text{dB}$ (1GHz to 18GHz)
		$\pm 4.80\text{dB}$ (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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t (86-512) 62992980 sgs.china@sgs.com

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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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/05/28	2022/05/27
				2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/05/29	2022/05/28
				2022/05/28	2023/05/27
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

CE Test System					
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	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test System					
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-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/05/29	2022/05/28
				2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant0	5180	24.80	5168.20	5193.00	Reporting only
		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	
11n40SISO	Ant0	5190	41.12	5169.92	5211.04	
		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	
		5795	41.20	5774.44	5815.64	
11ac20SISO	Ant0	5180	24.76	5168.24	5193.00	
		5220	24.84	5208.08	5232.92	
		5240	24.24	5228.12	5252.36	
		5260	24.04	5248.32	5272.36	
		5300	24.00	5288.12	5312.12	
		5320	23.76	5308.32	5332.08	
		5500	23.88	5488.04	5511.92	
		5580	23.80	5568.12	5591.92	
		5700	23.72	5688.16	5711.88	
		5745	24.40	5733.24	5757.64	
		5785	23.84	5773.16	5797.00	
		5825	23.96	5813.04	5837.00	
11ac40SISO	Ant0	5190	40.88	5169.92	5210.80	
		5230	41.20	5209.44	5250.64	
		5270	41.68	5249.28	5290.96	
		5310	41.44	5289.20	5330.64	
		5510	41.04	5489.44	5530.48	
		5550	40.80	5529.52	5570.32	
		5670	41.12	5649.52	5690.64	



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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	
		5290	88.32	5247.44	5335.76	
		5530	81.92	5488.88	5570.80	
		5610	82.88	5567.92	5650.80	
		5775	86.08	5729.88	5815.96	



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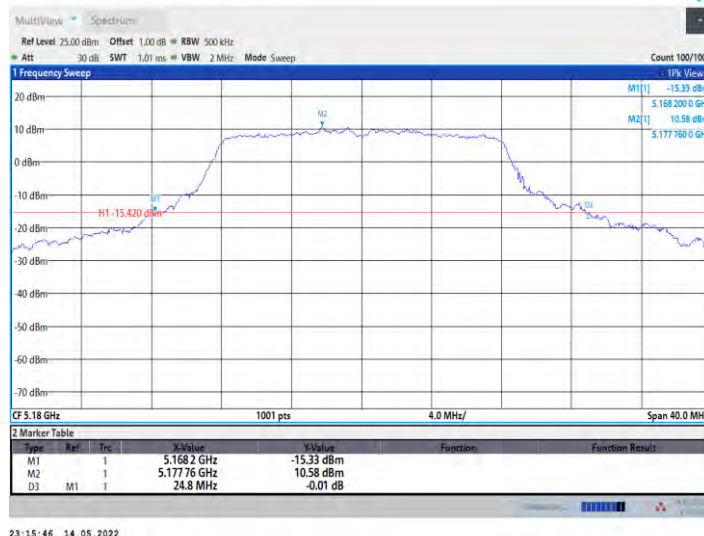
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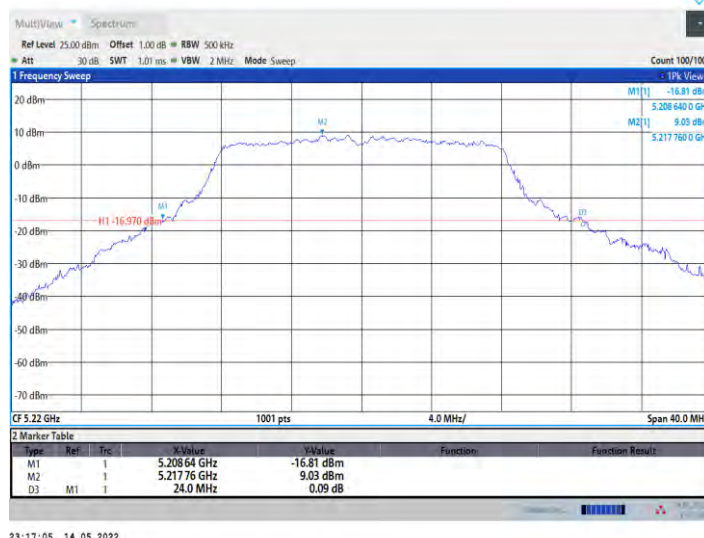
Test Graphs

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23:17:05 14.05.2022



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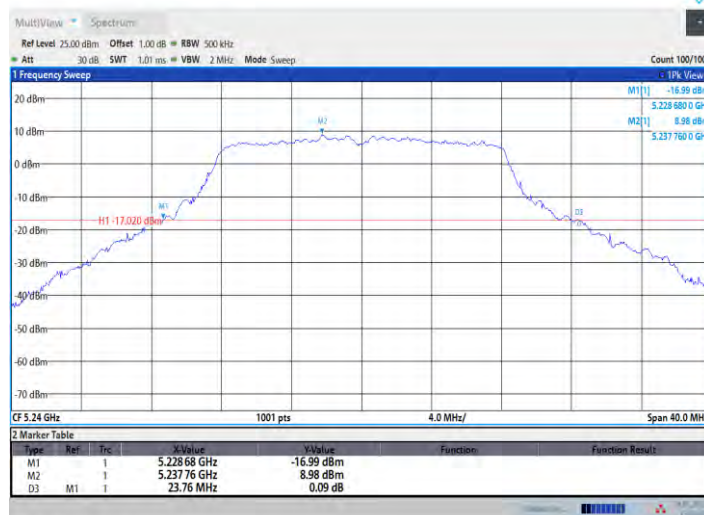
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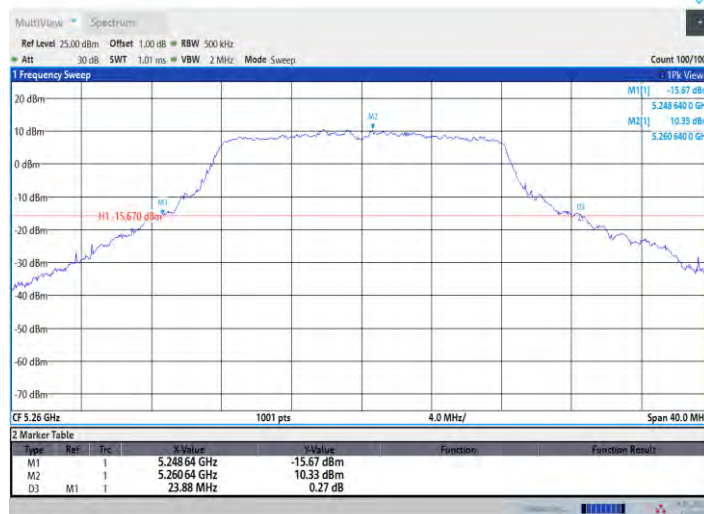
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23:34:27 14.05.2022



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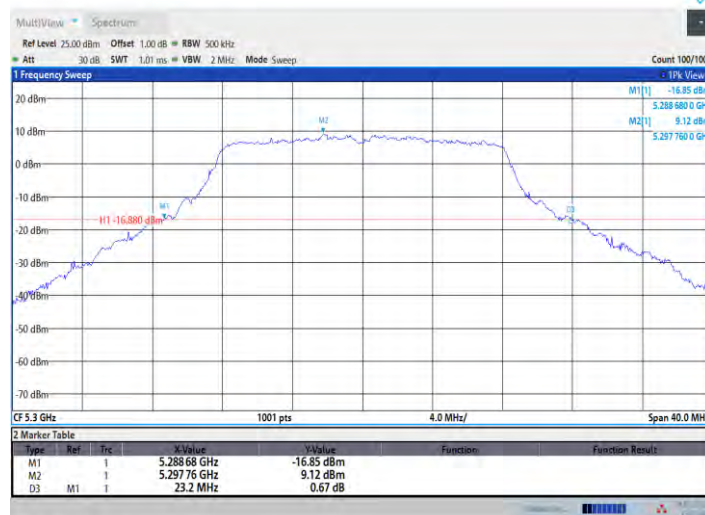
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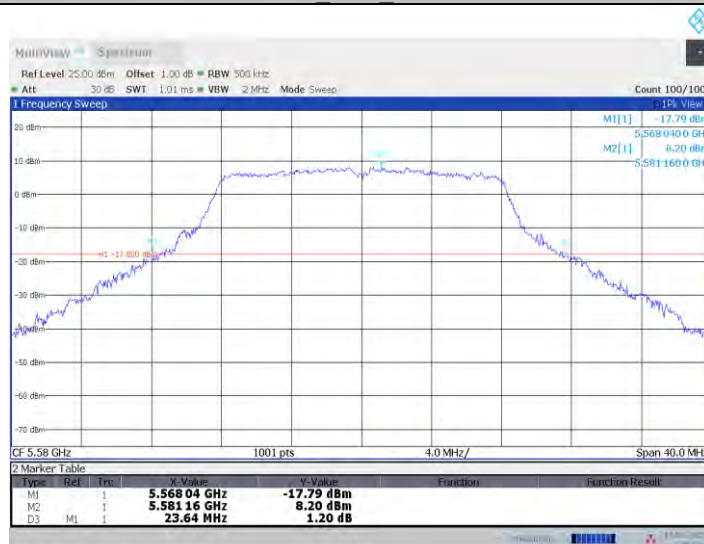
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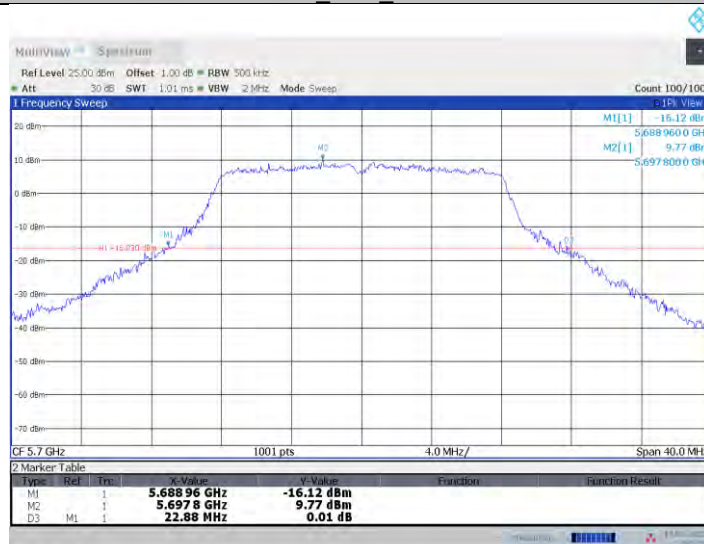
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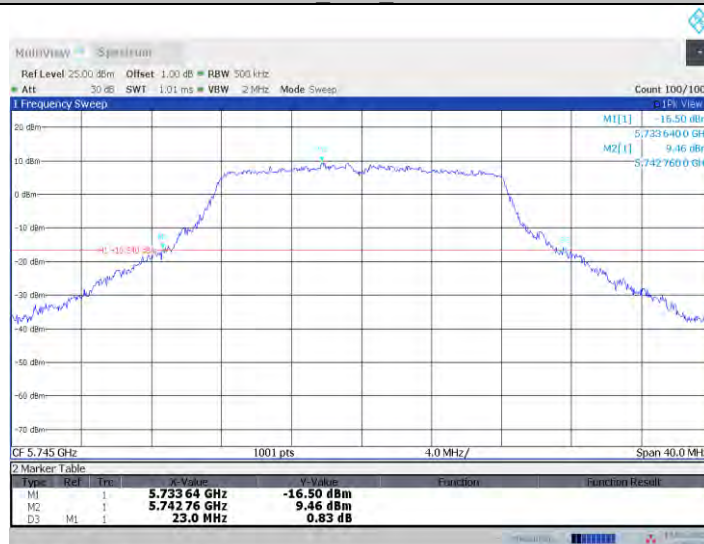
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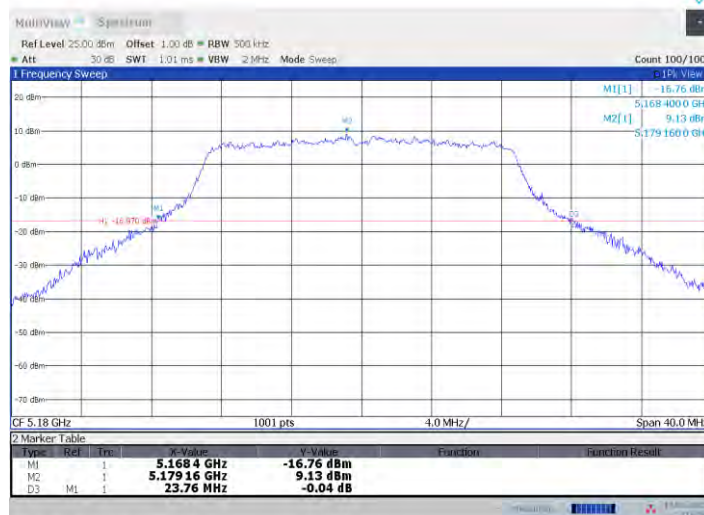
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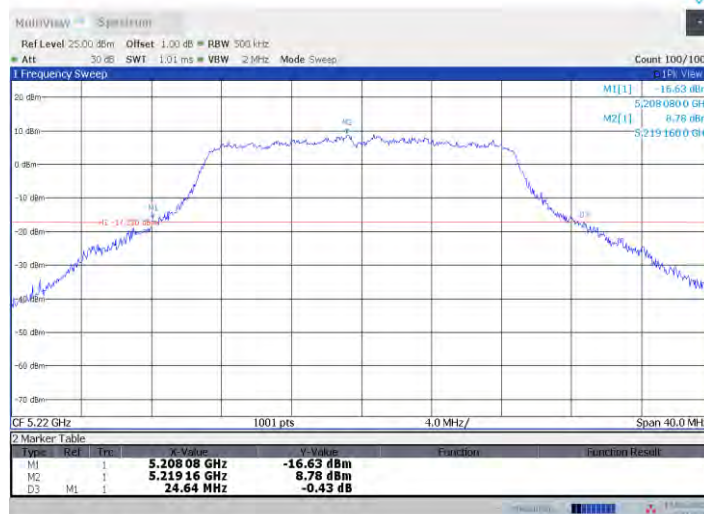
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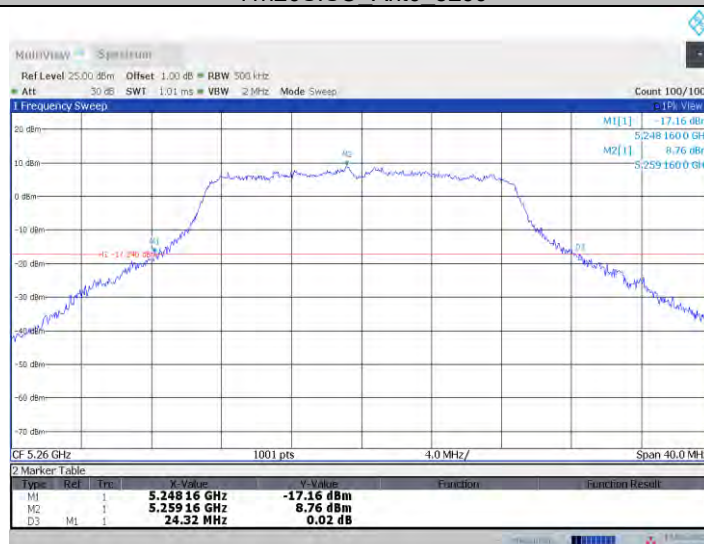
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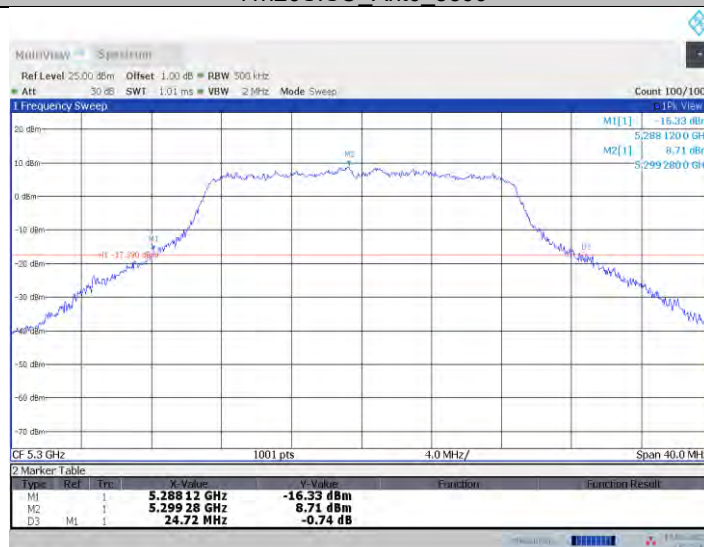
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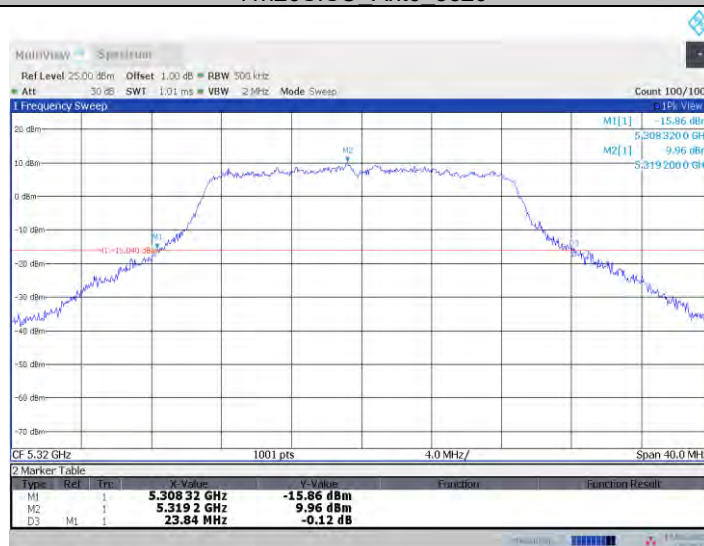
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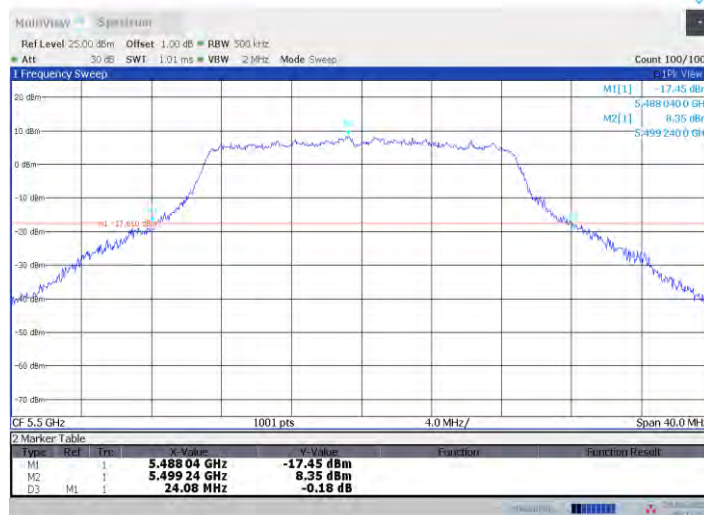
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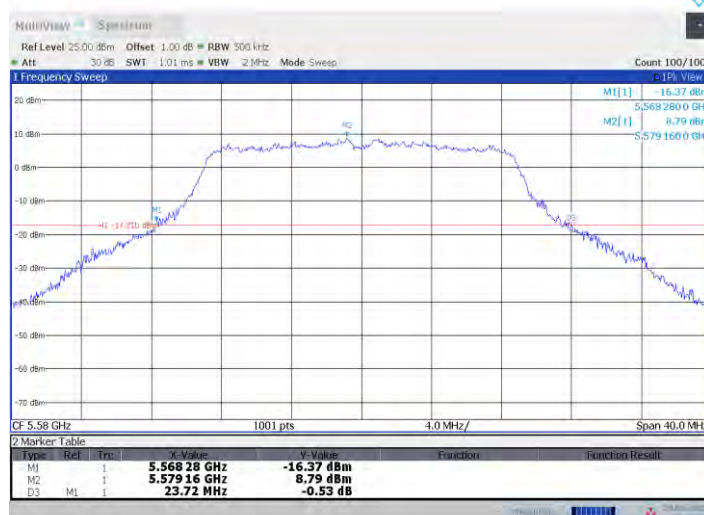
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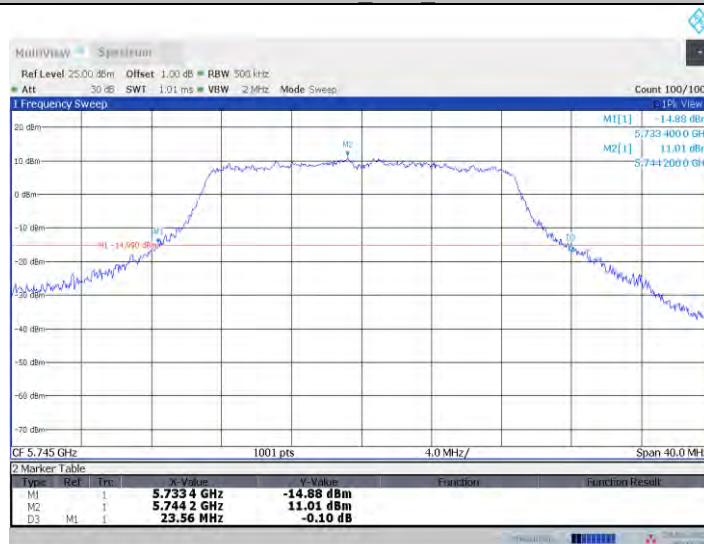
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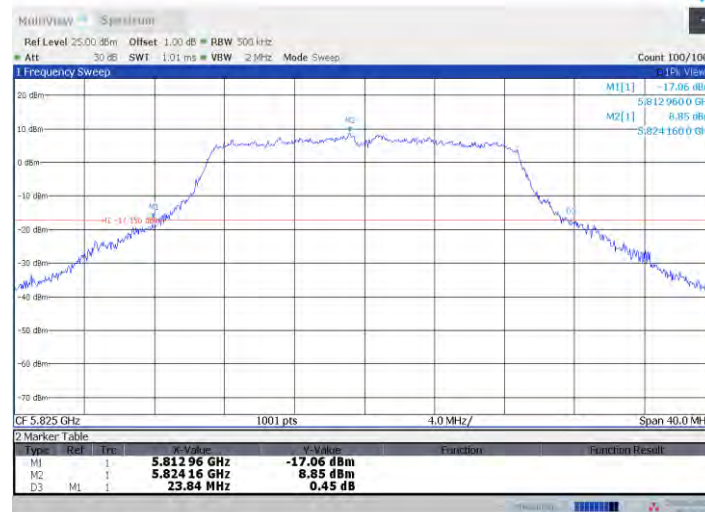
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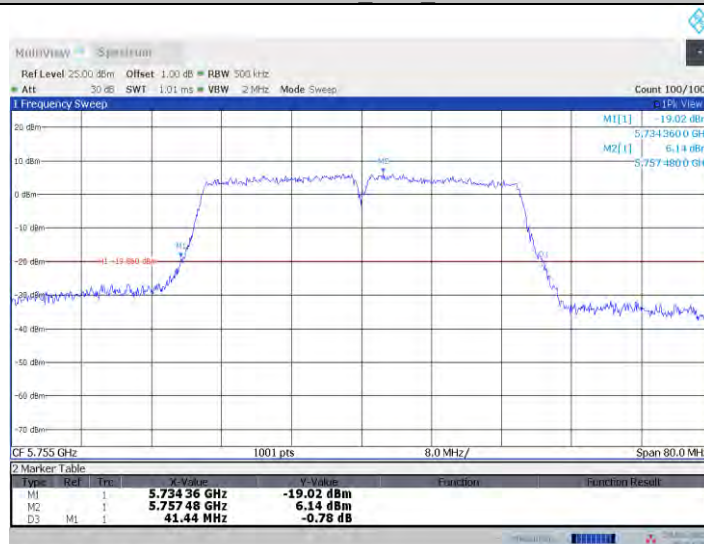
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11n40SISO_Ant0_5670



08:52:44 20.05.2022

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08:54:39 20.05.2022



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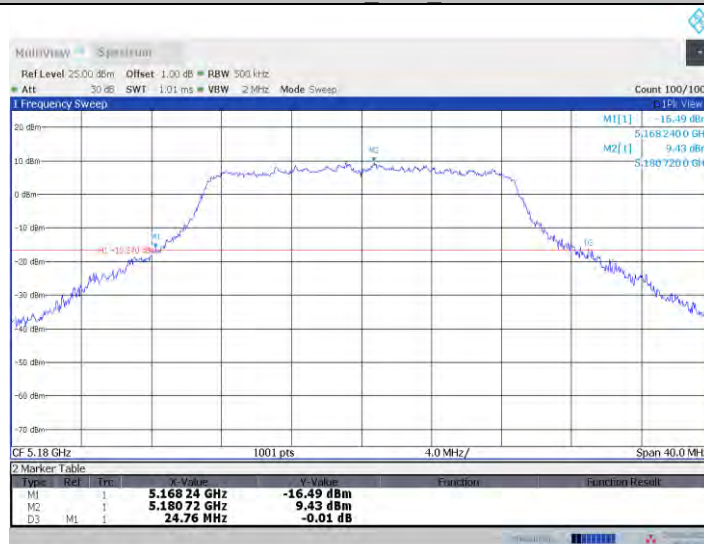
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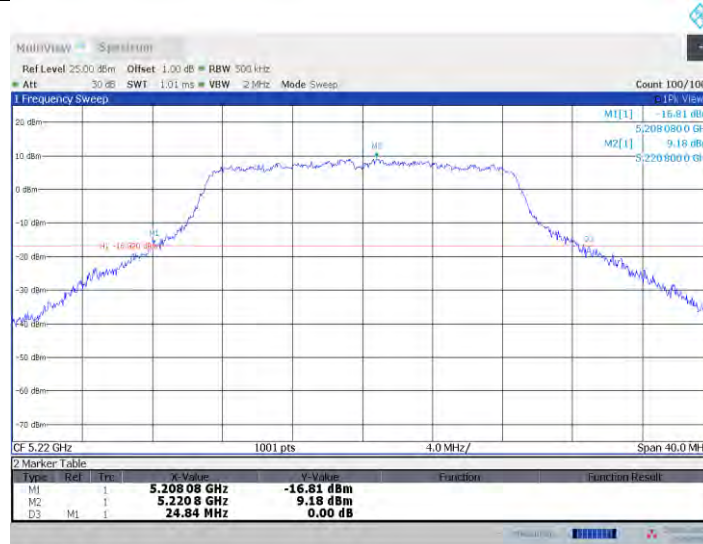
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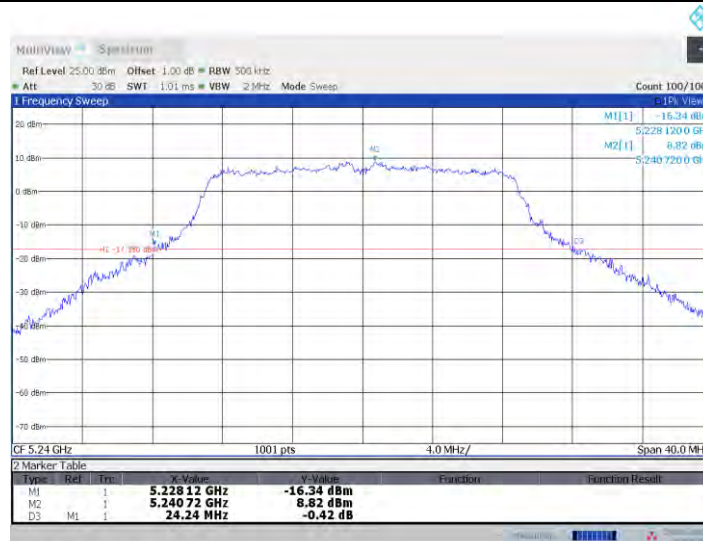
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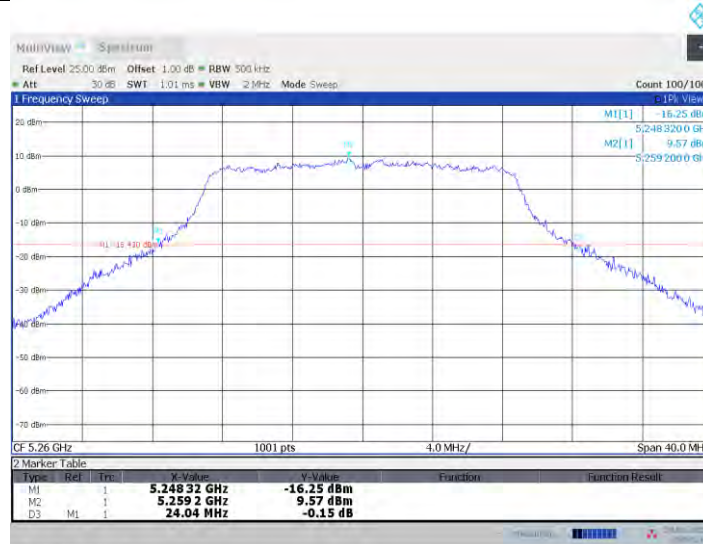
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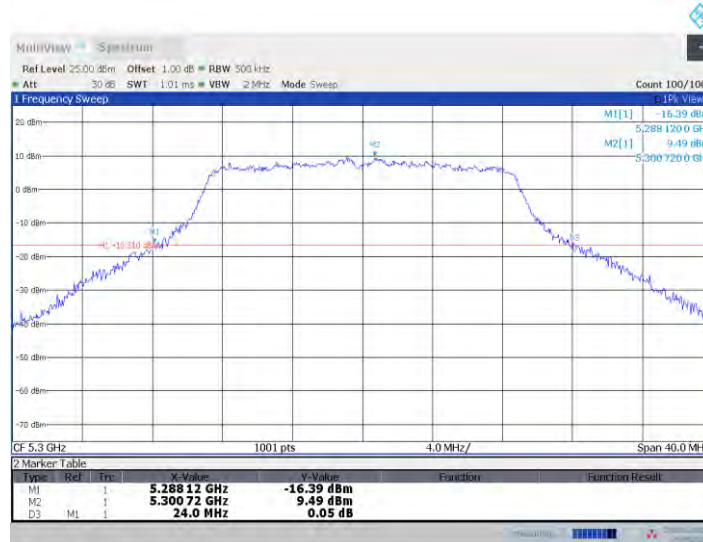
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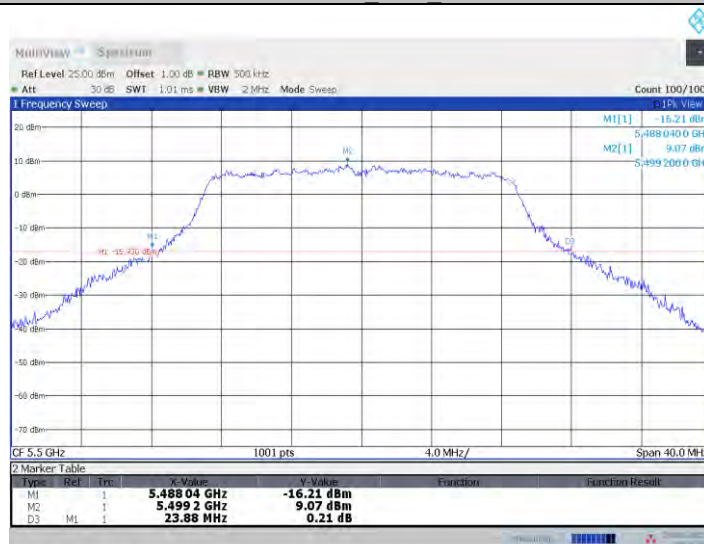
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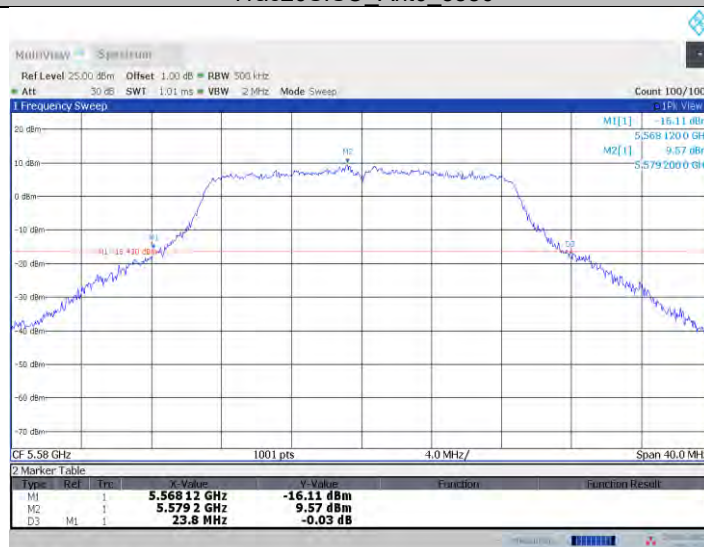
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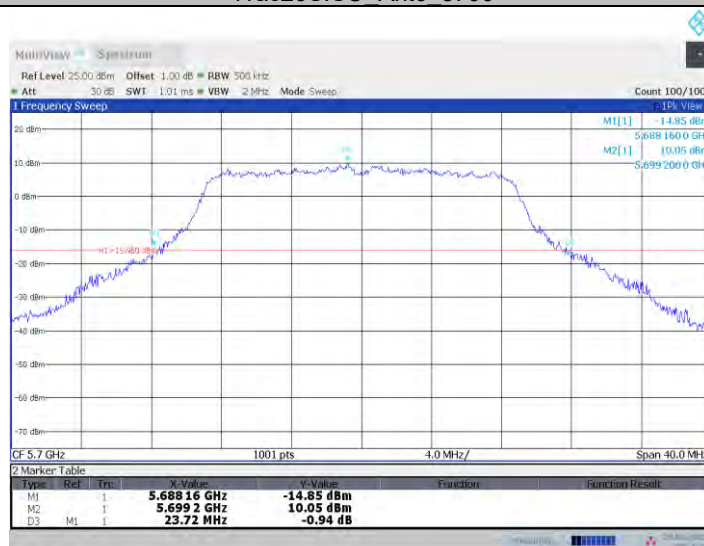
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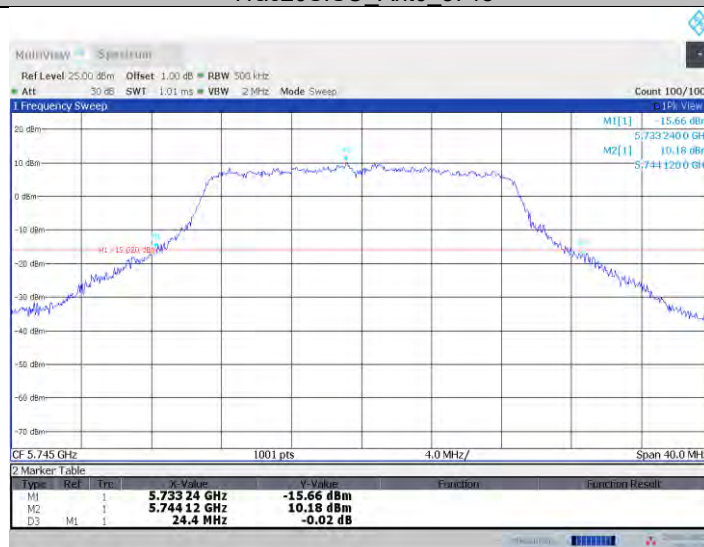
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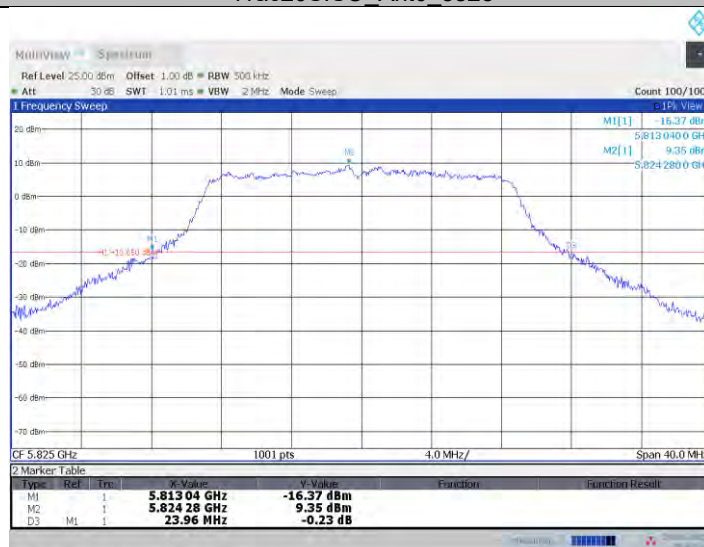
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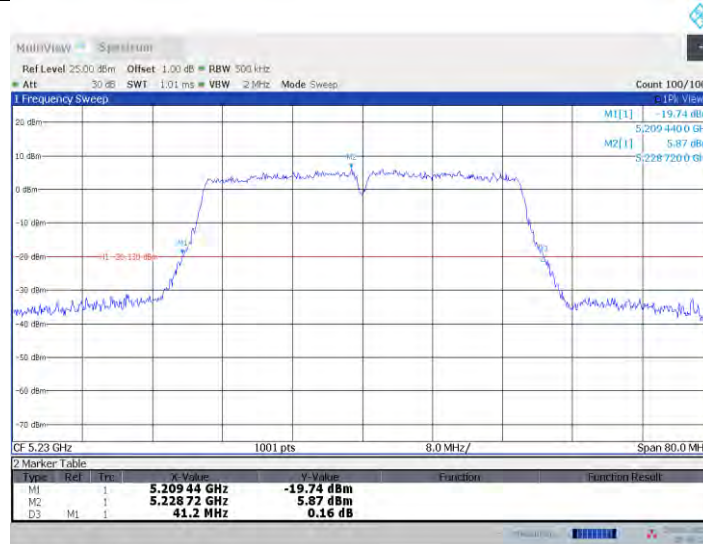
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11ac80SISO Ant0 5530



11:04:57 20.05.2022

11ac80SISO Ant0 5610



11:05:53 20.05.2022



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11ac80SISO_Ant0_5775



11:08:50 20.05.2022



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Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant0	5180	17.19	5171.424	5188.613	Reporting only
		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	
		5825	16.944	5816.468	5833.412	
11n20SISO	Ant0	5180	18.115	5170.952	5189.067	Reporting only
		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	
		5785	18.138	5775.902	5794.040	
		5825	18.122	5815.894	5834.017	
11n40SISO	Ant0	5190	36.612	5171.755	5208.366	Reporting only
		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	Reporting only
		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	
		5825	18.132	5815.885	5834.018	
11ac40SISO	Ant0	5190	36.461	5171.774	5208.235	Reporting only
		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	
		5670	36.42	5651.747	5688.167	



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11ac80SISO	Ant0	5755	36.468	5736.696	5773.164
		5795	36.483	5776.704	5813.187
		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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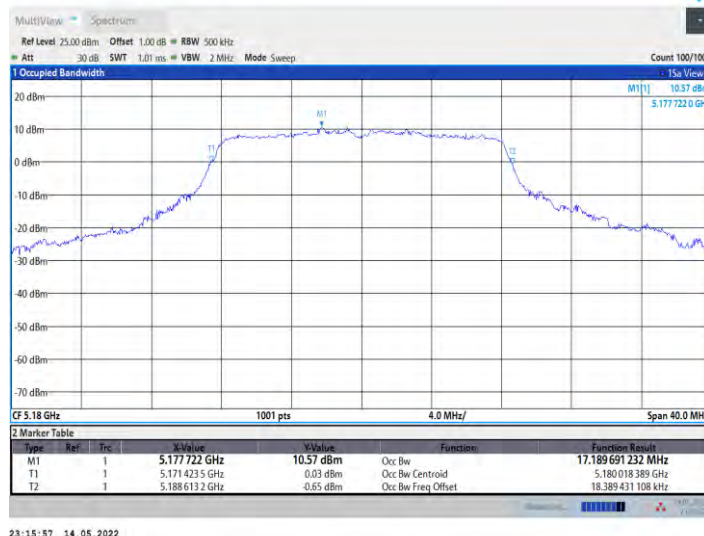
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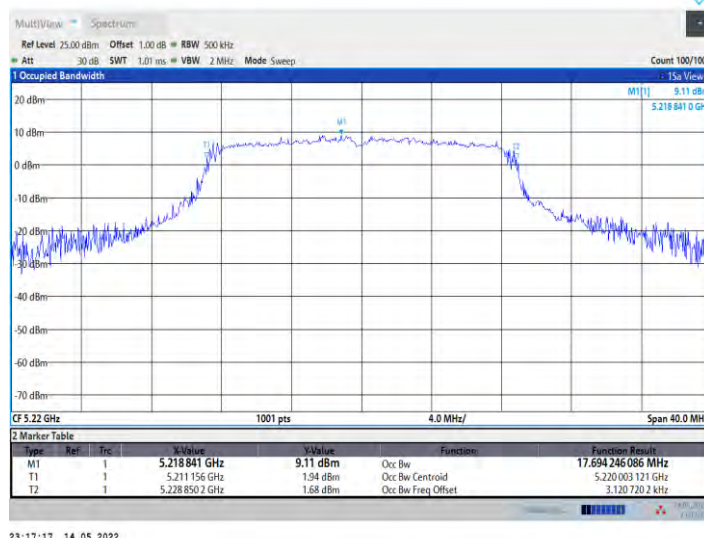
Test Graphs

11a_Ant0_5180



23:15:57 14.05.2022

11a_Ant0_5220



23:17:17 14.05.2022



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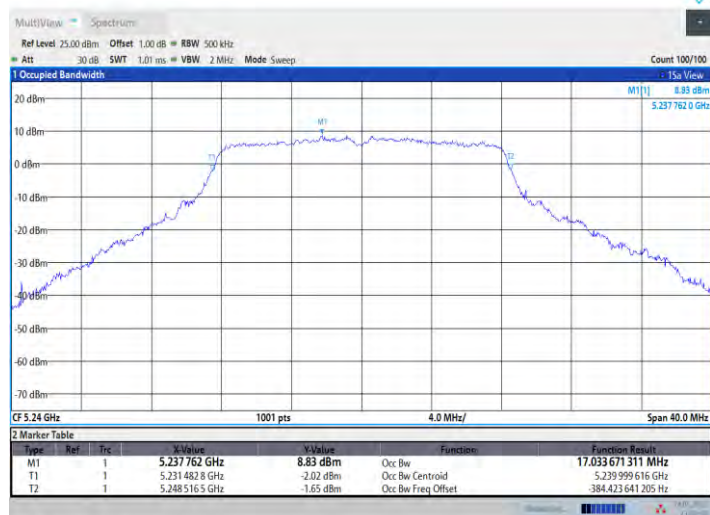
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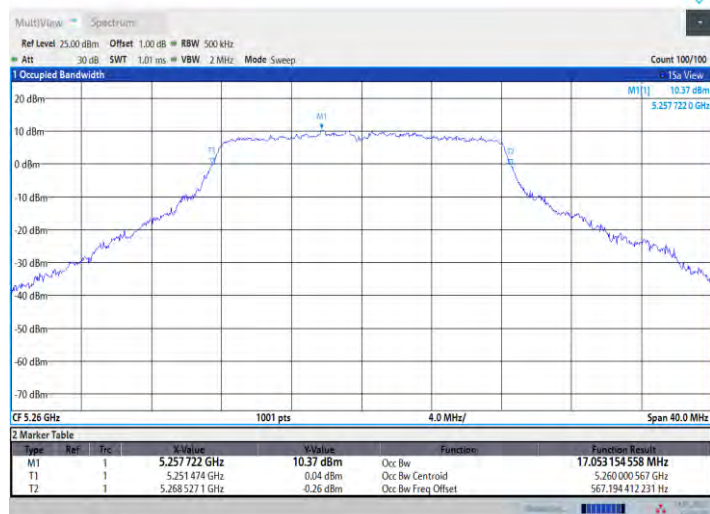
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11a_Ant0_5240



23:31:00 14.05.2022

11a_Ant0_5260



23:34:39 14.05.2022



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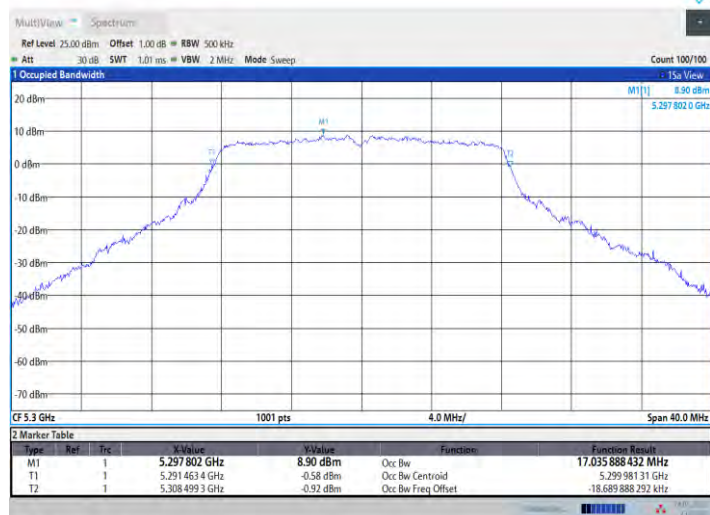
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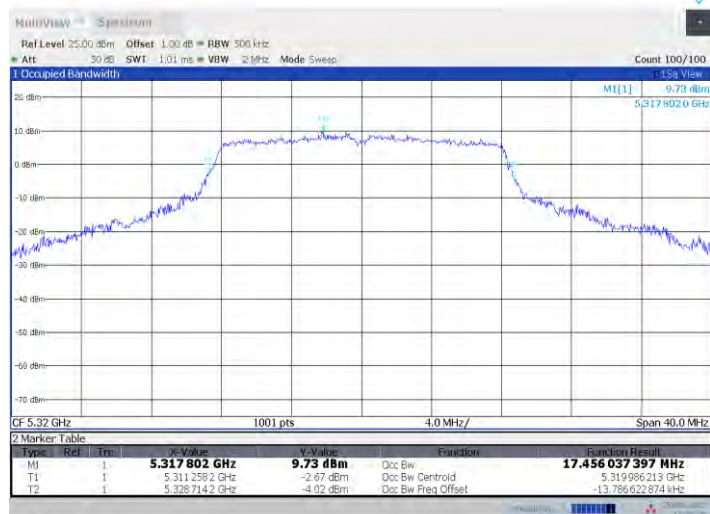
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11a_Ant0_5300



23:37:20 14.05.2022

11a_Ant0_5320



12:45:37 26.05.2022



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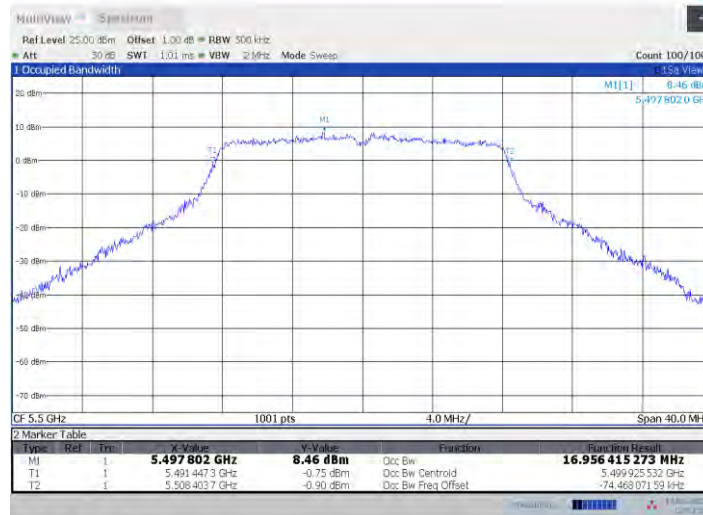
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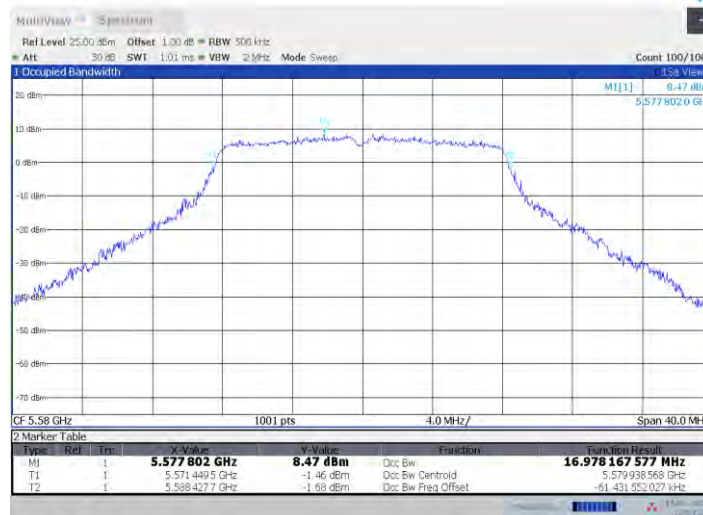
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13:03:17 19.05.2022

11a_Ant0_5580



13:04:26 19.05.2022



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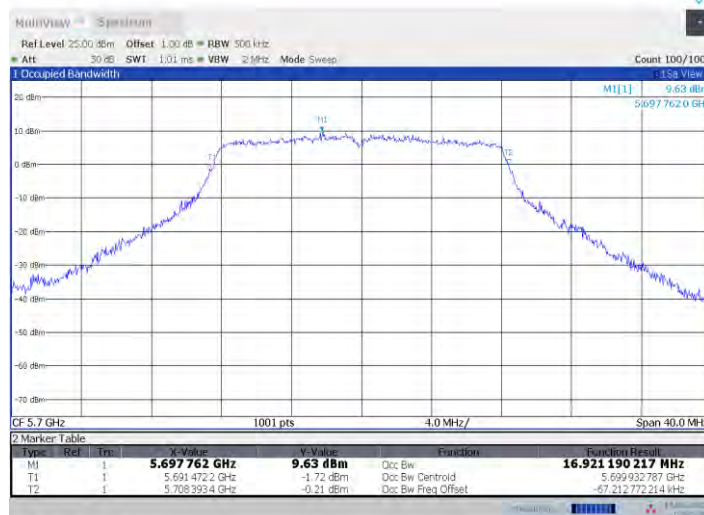
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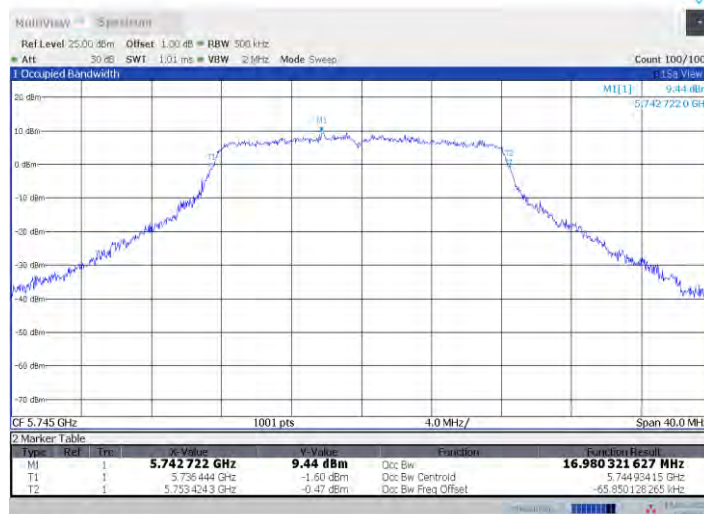
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11a_Ant0_5700



13:05:31 19.05.2022

11a_Ant0_5745



13:06:43 19.05.2022



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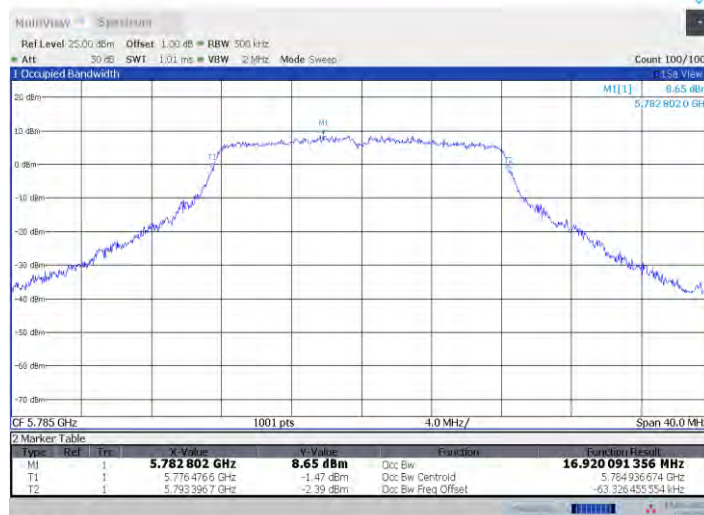
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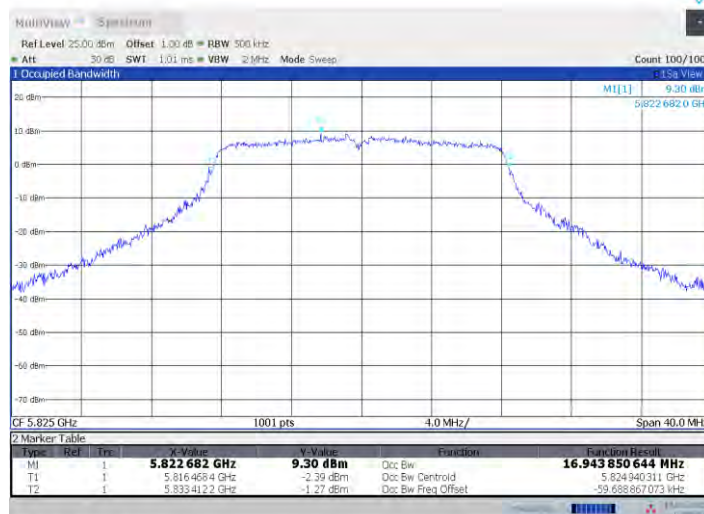
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13:07:54 19.05.2022

11a_Ant0_5825



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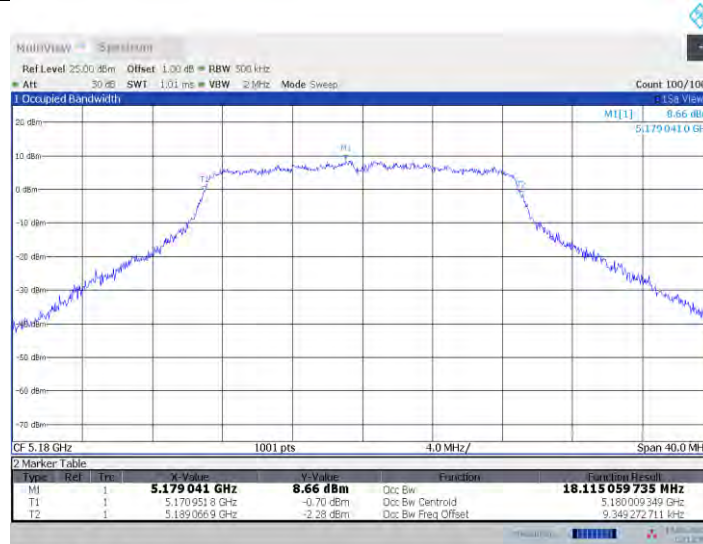
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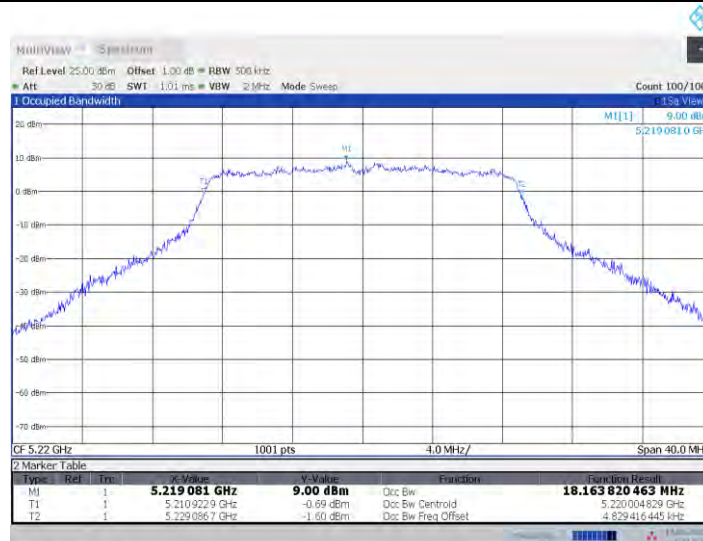
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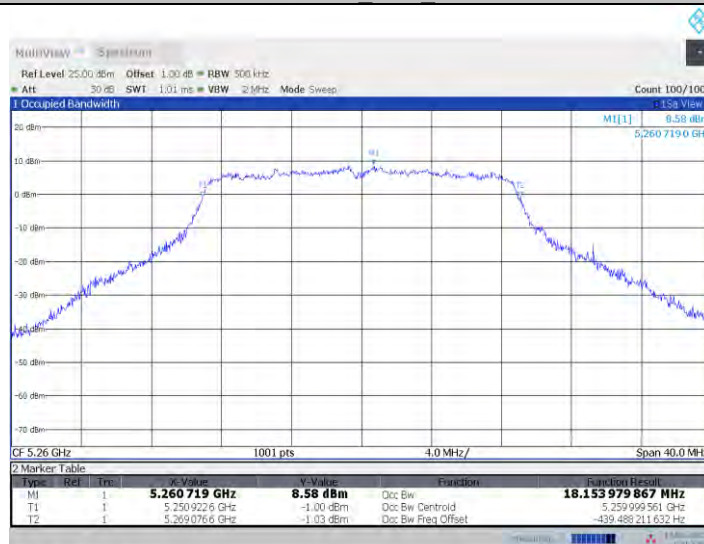
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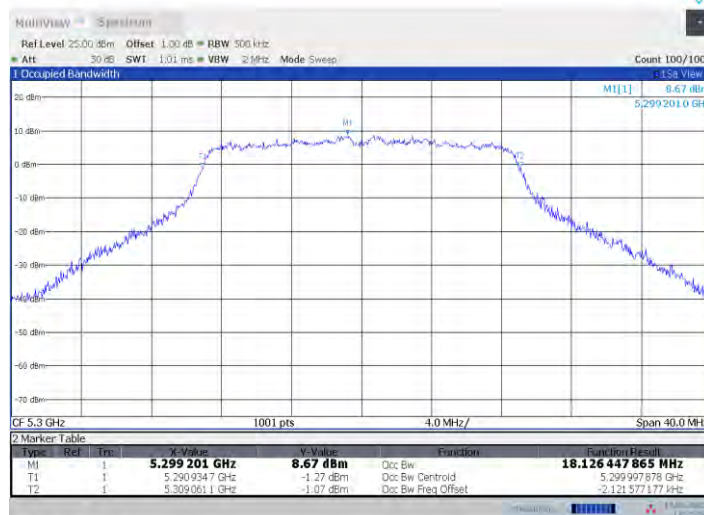
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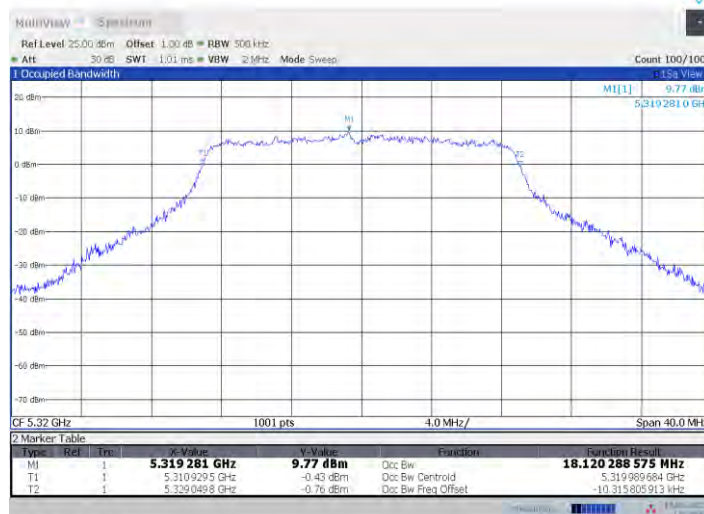
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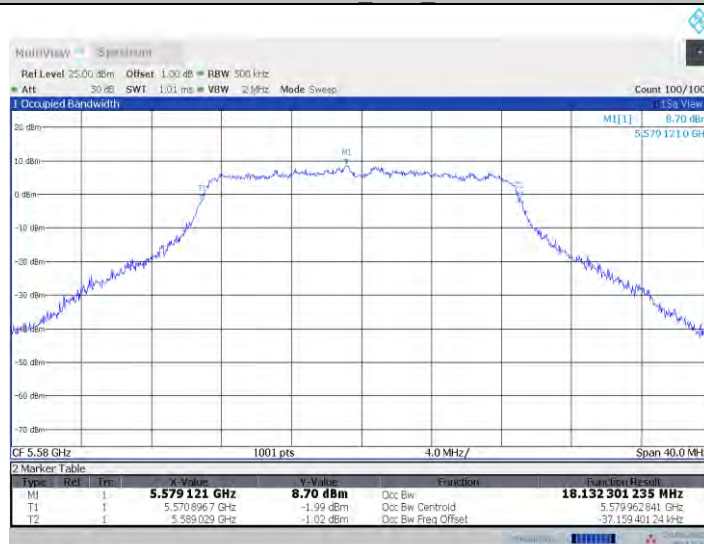
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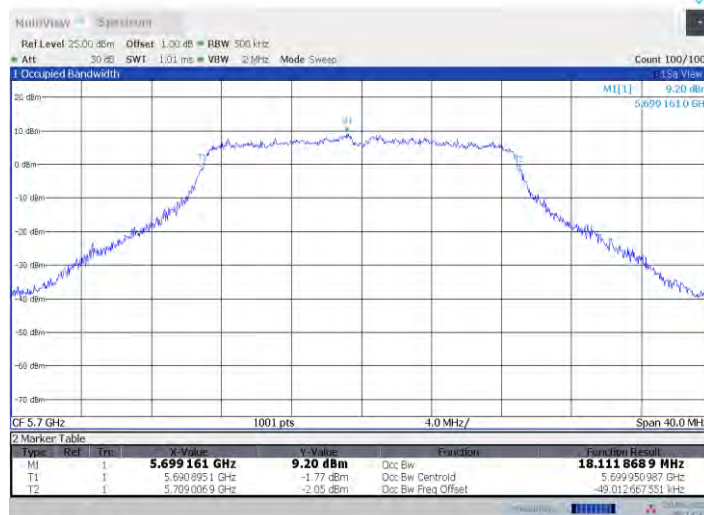
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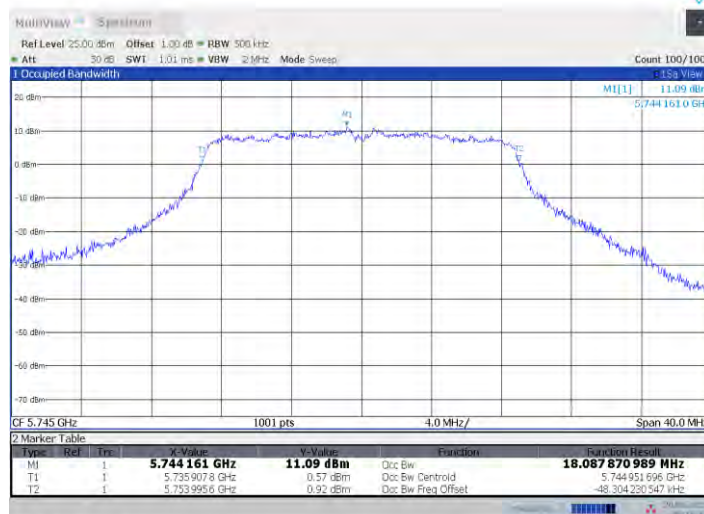
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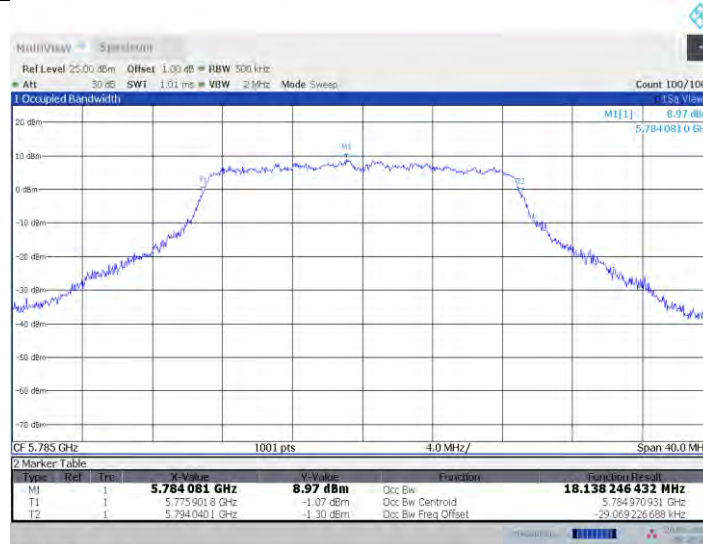
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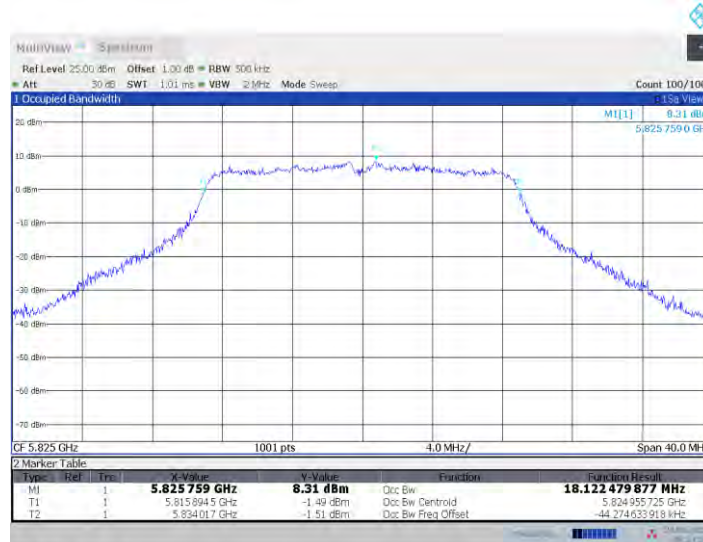
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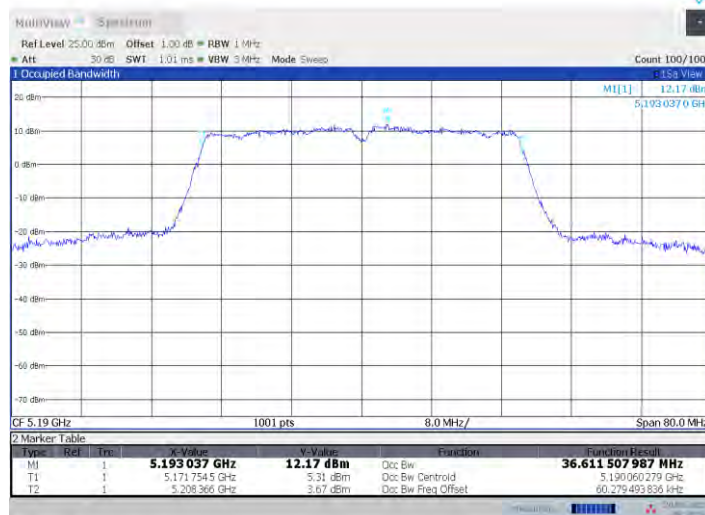
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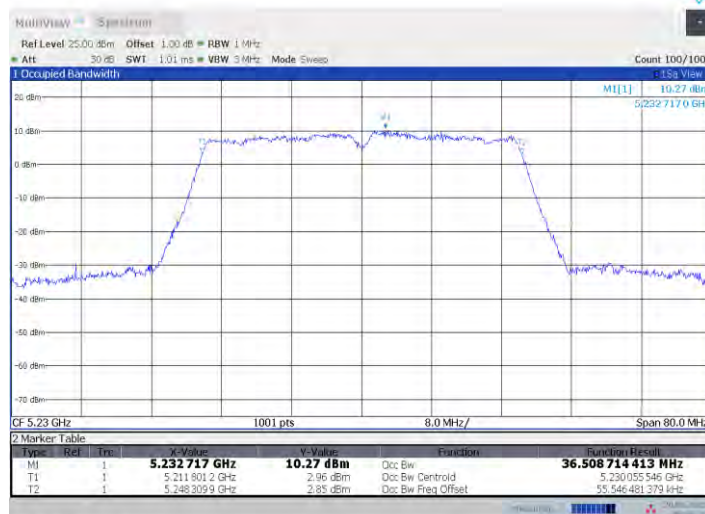
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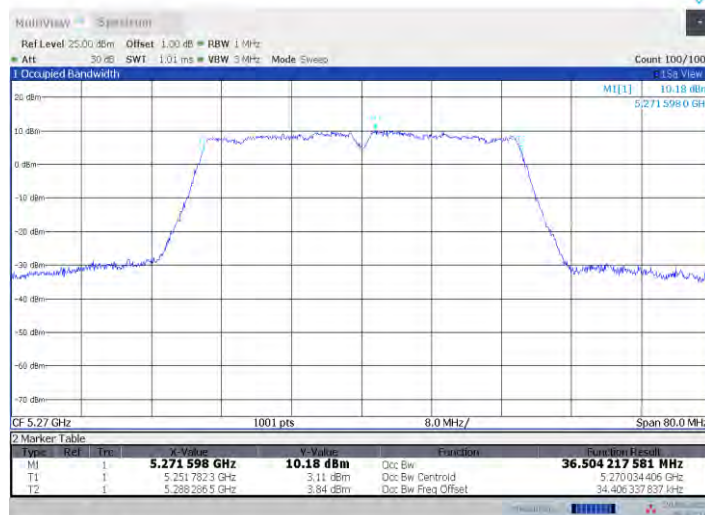
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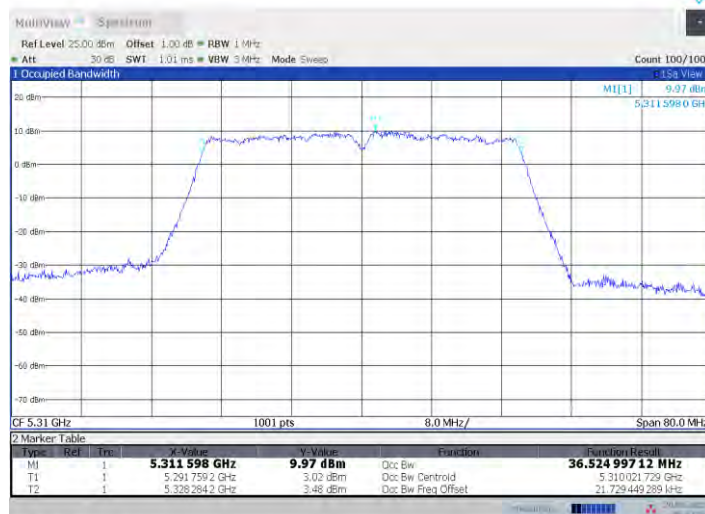
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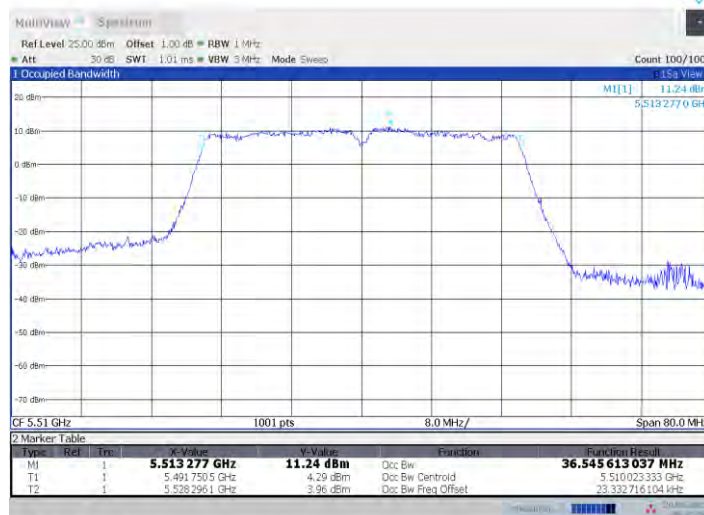
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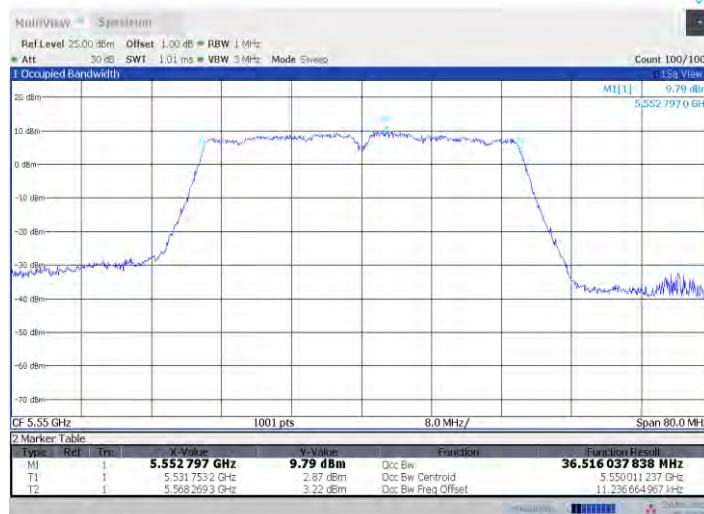
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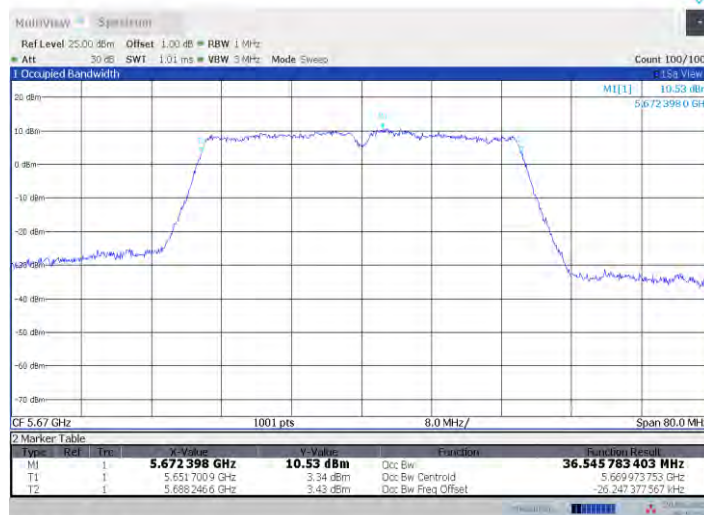
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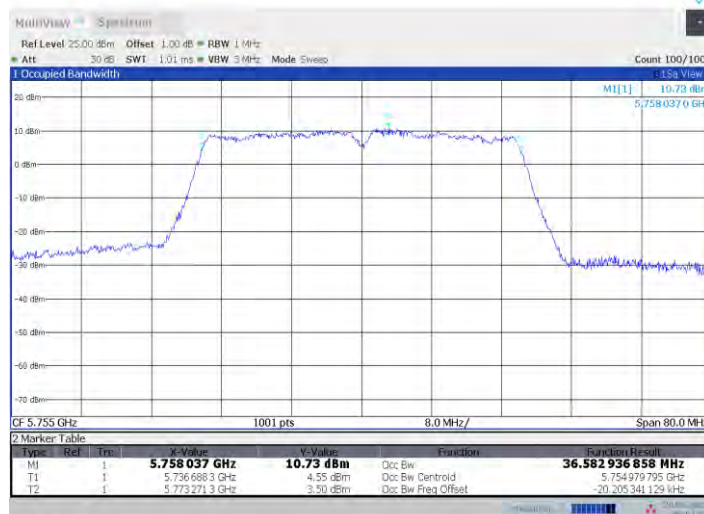
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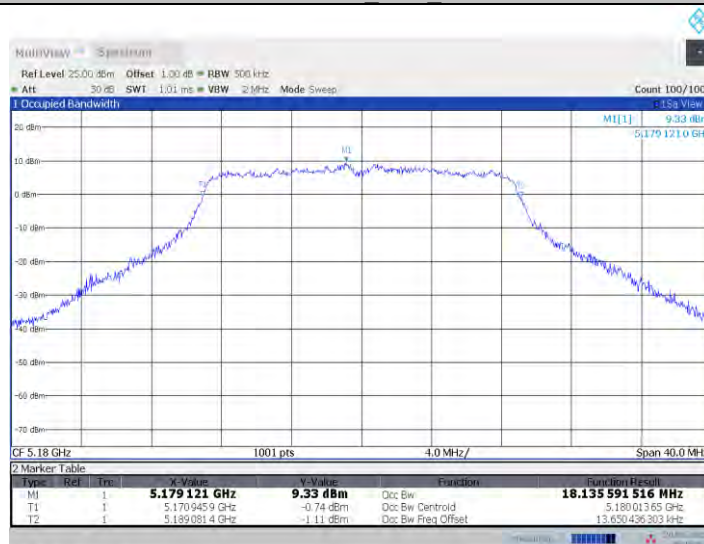
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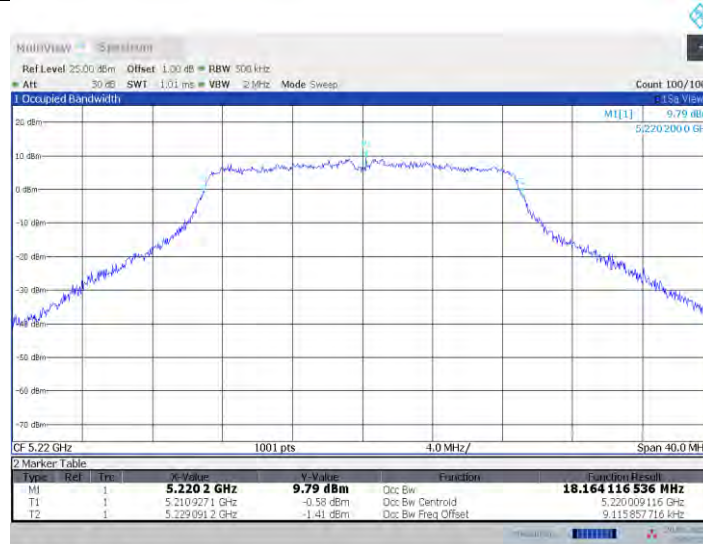
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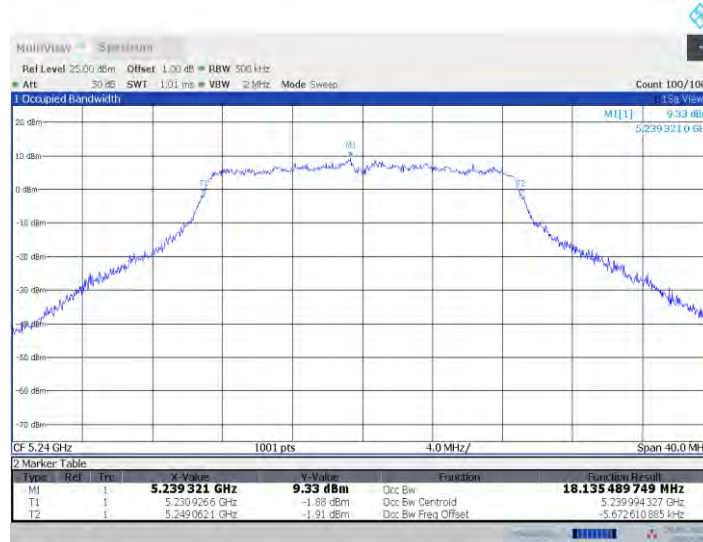
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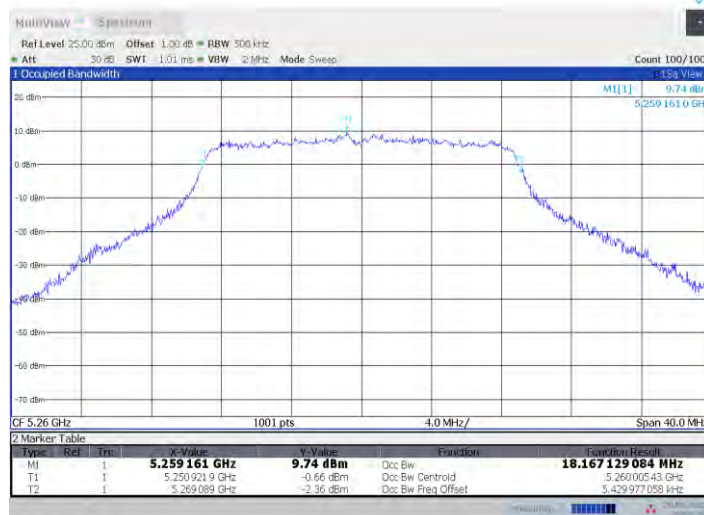
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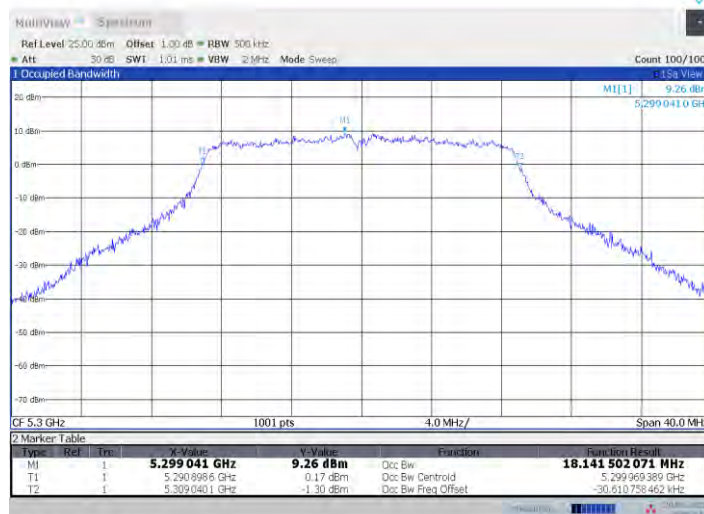
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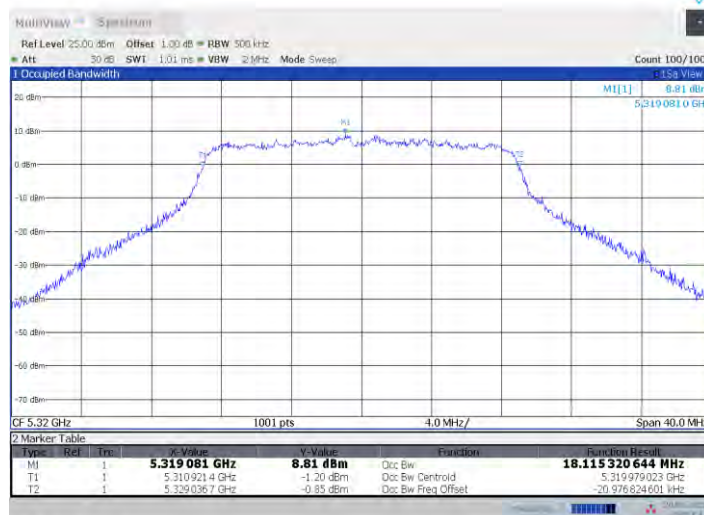
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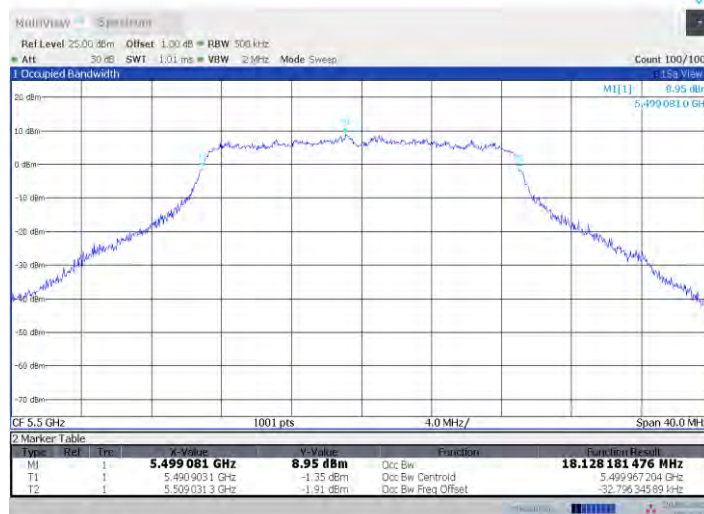
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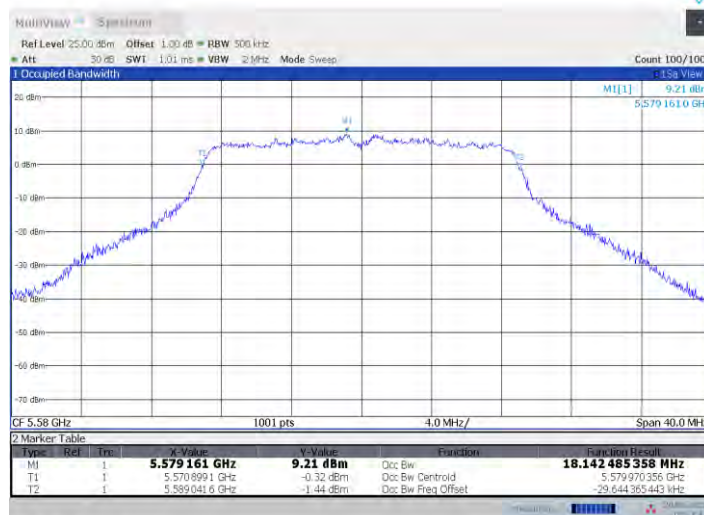
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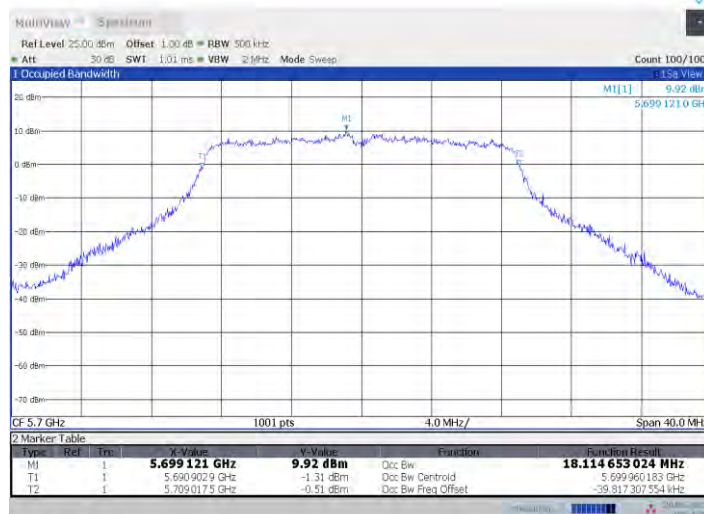
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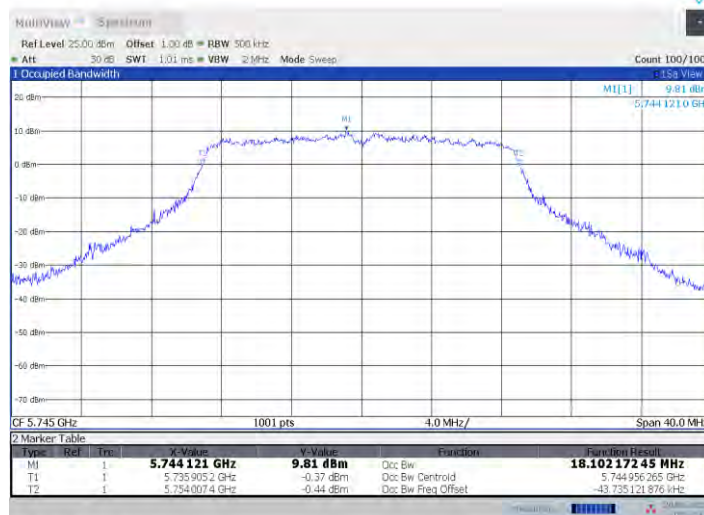
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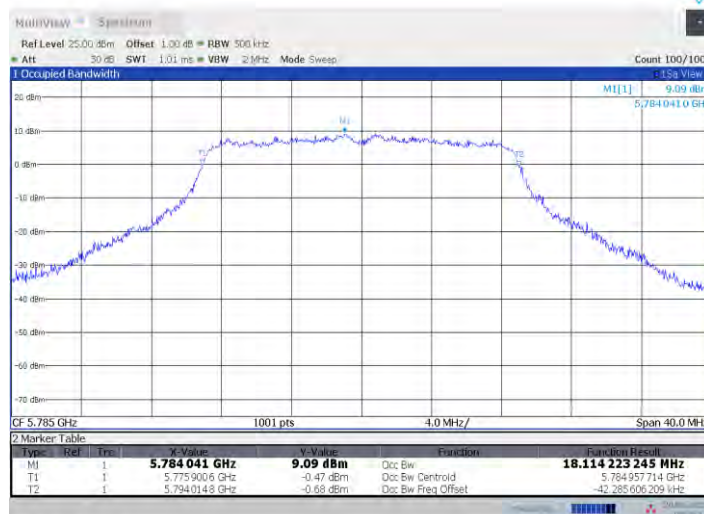
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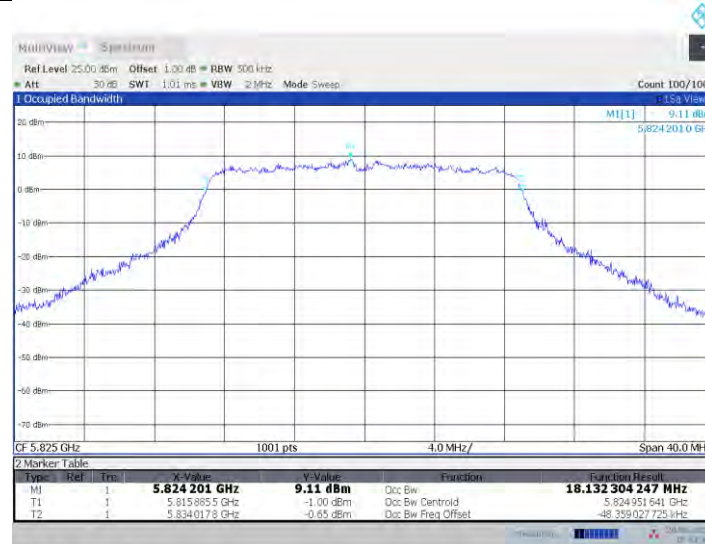
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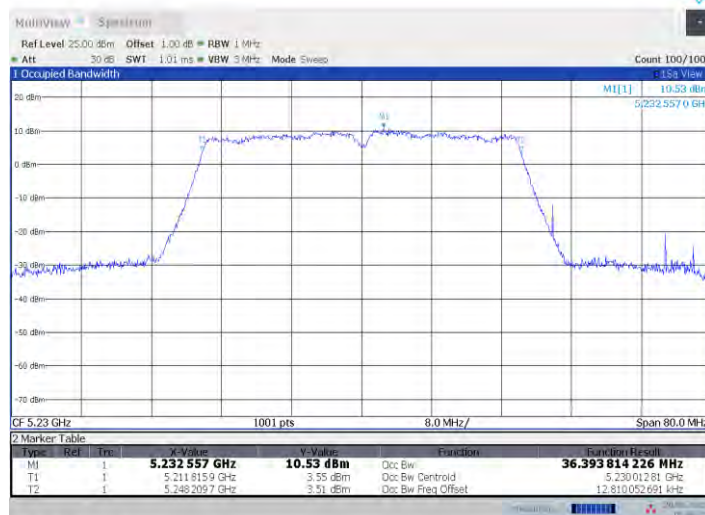
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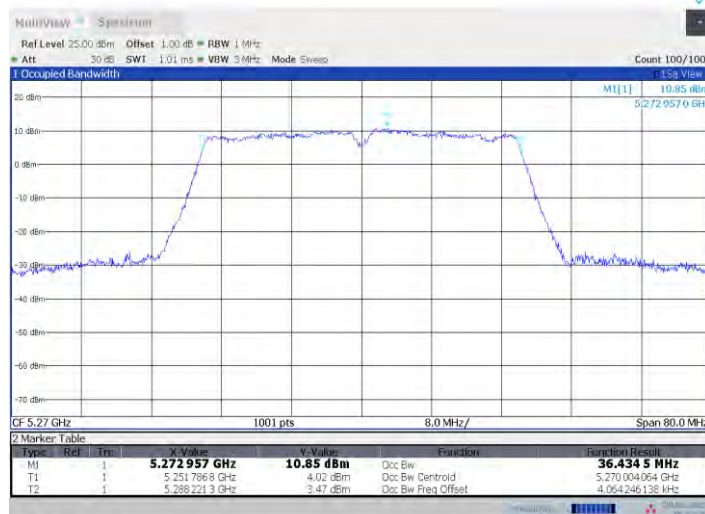
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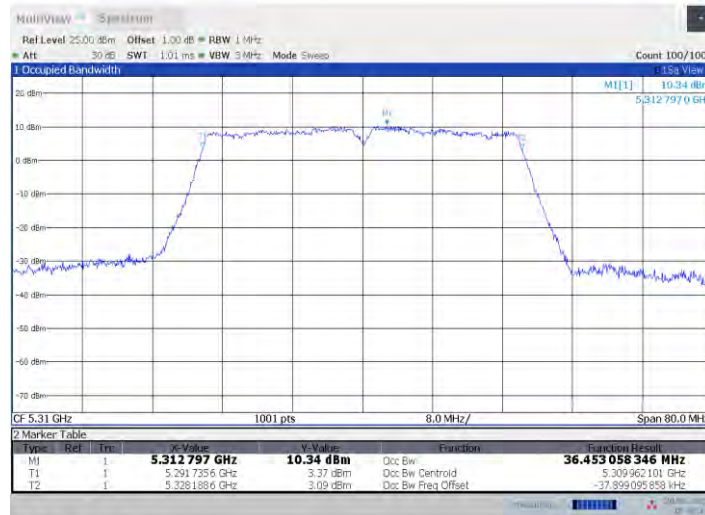
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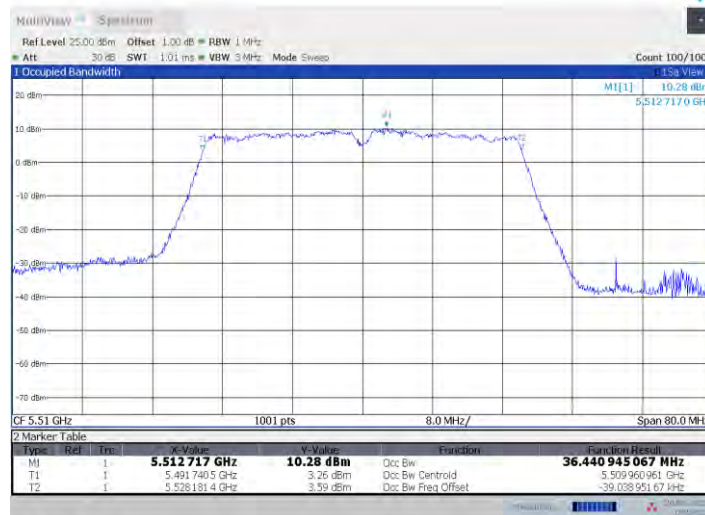
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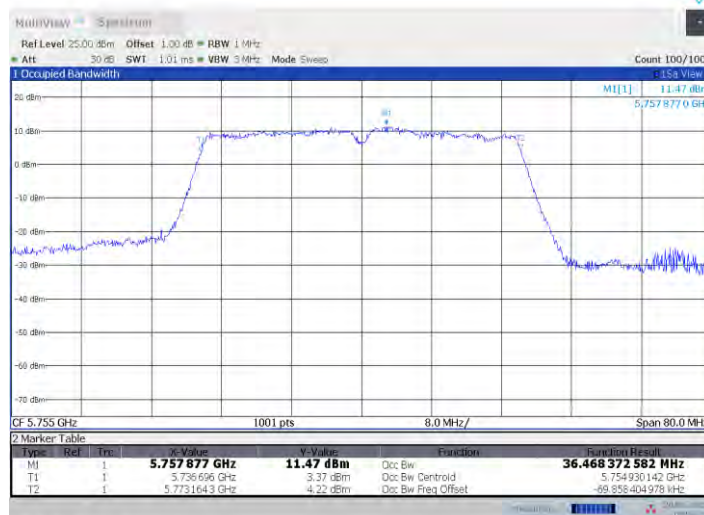
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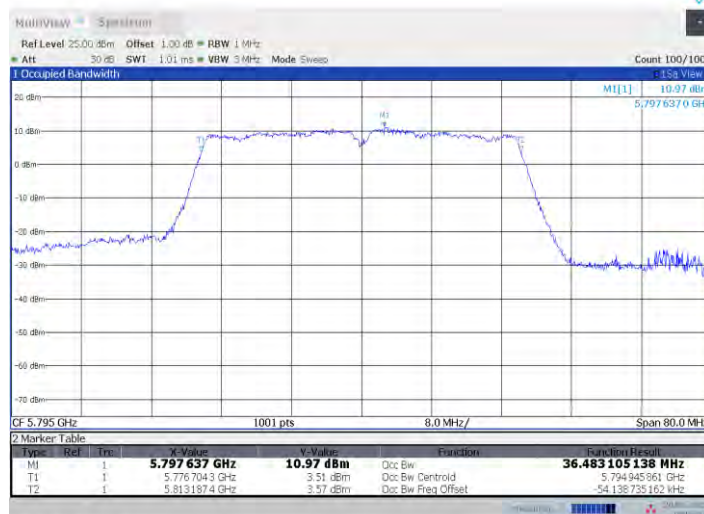
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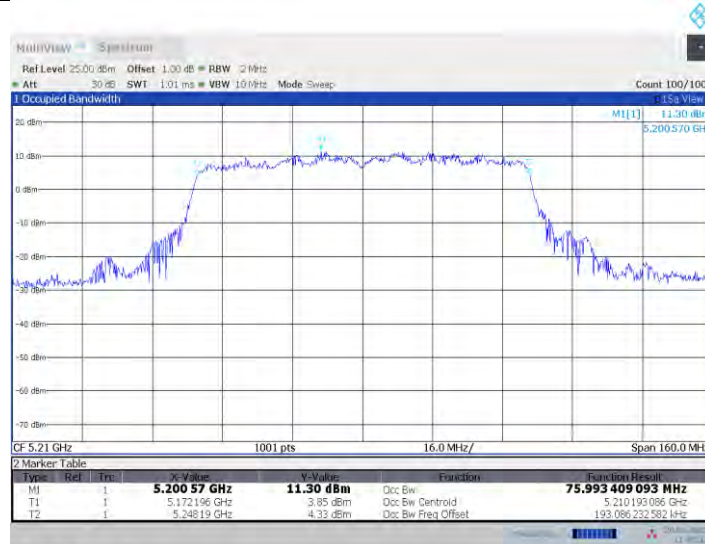
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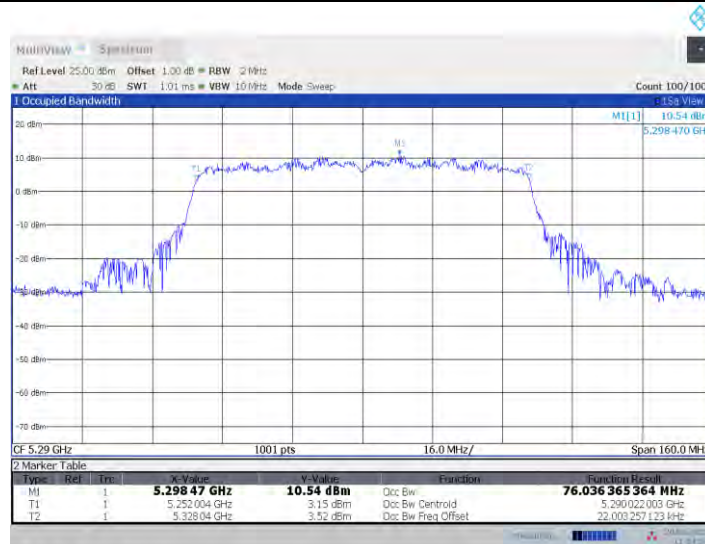
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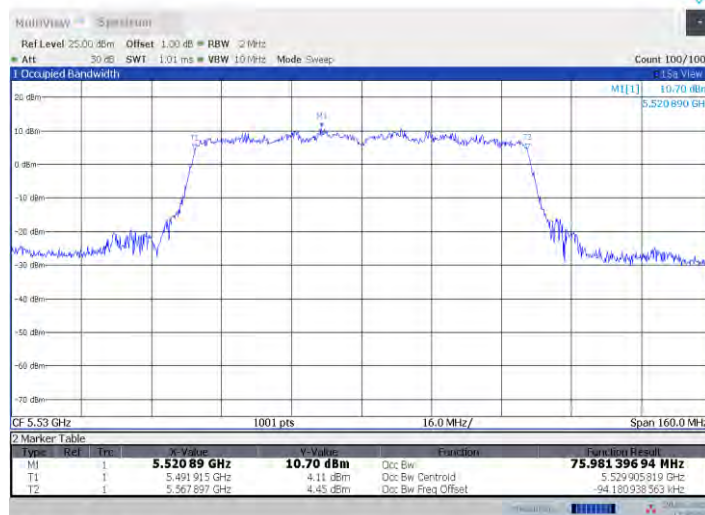
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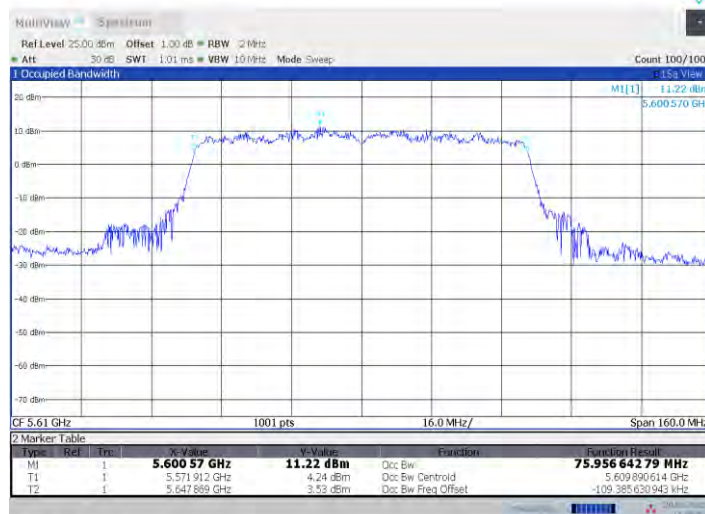
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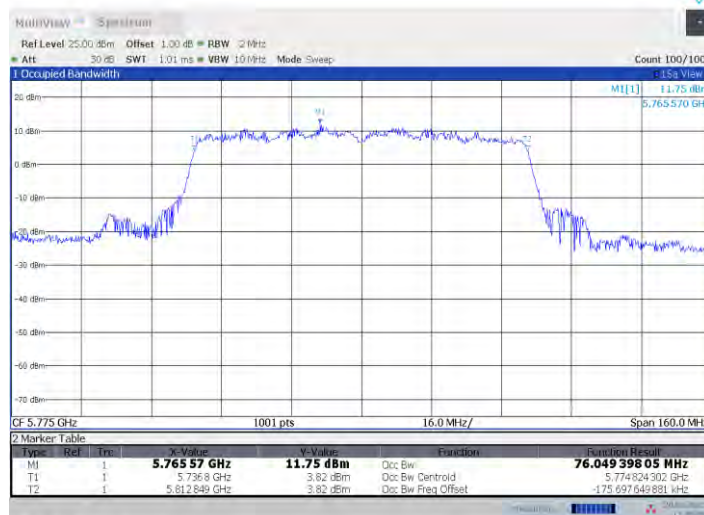
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11ac80SISO_Ant0_5775



11:09:10 20.05.2022



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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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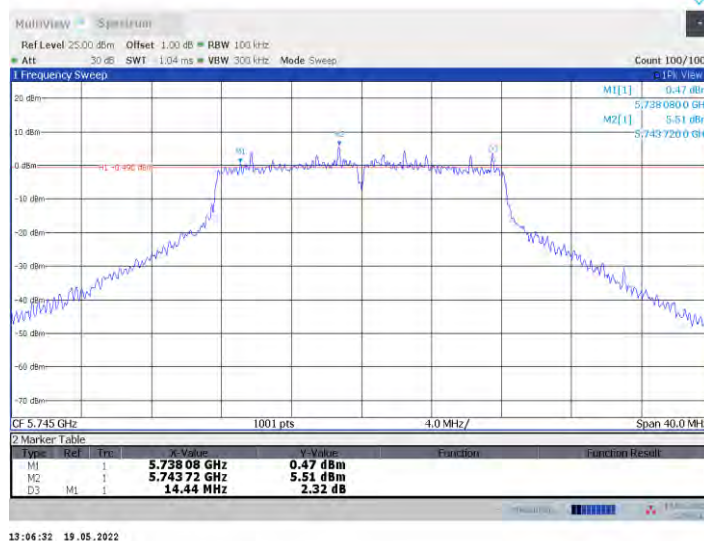
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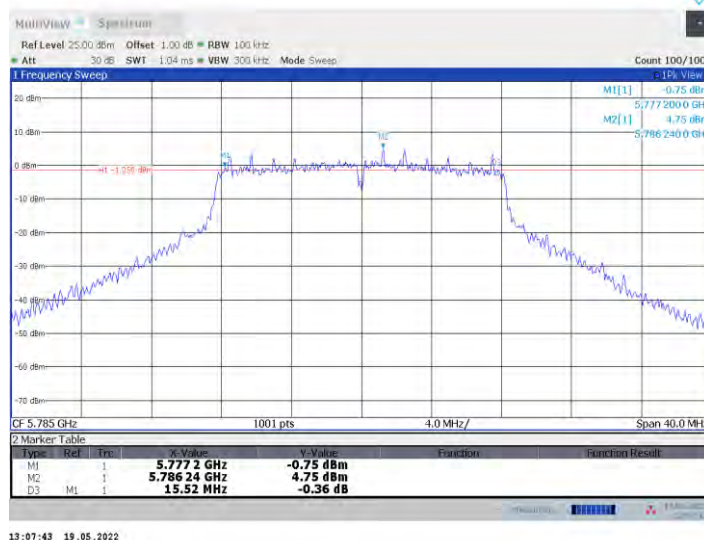
Test Graphs B4

11a_Ant0_5745



13:06:32 19.05.2022

11a_Ant0_5785



13:07:43 19.05.2022



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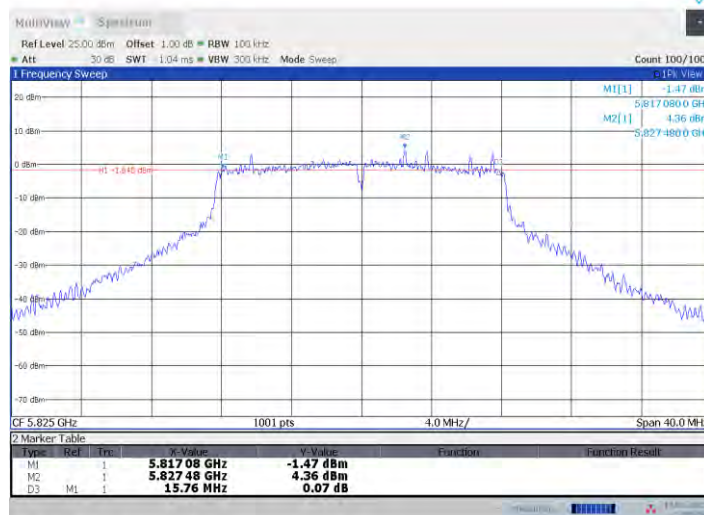
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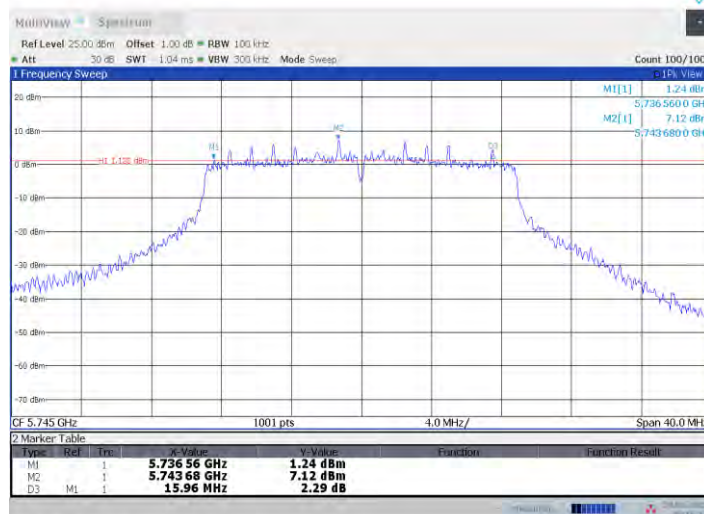
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11a_Ant0_5825



13:08:51 19.05.2022

11n20SISO_Ant0_5745



08:16:37 20.05.2022



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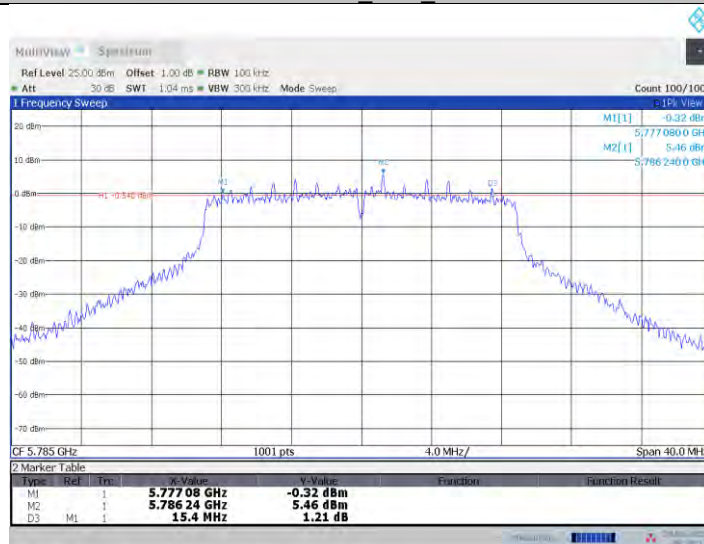
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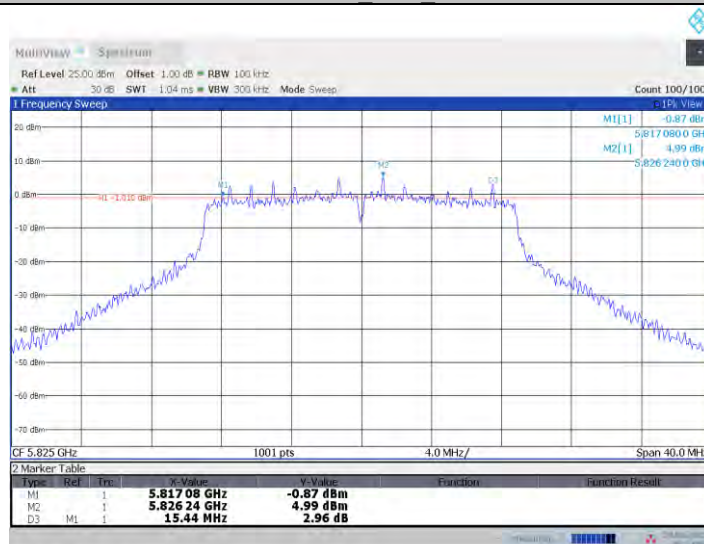
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11n20SISO_Ant0_5785



08:20:11 20.05.2022

11n20SISO_Ant0_5825



08:24:00 20.05.2022



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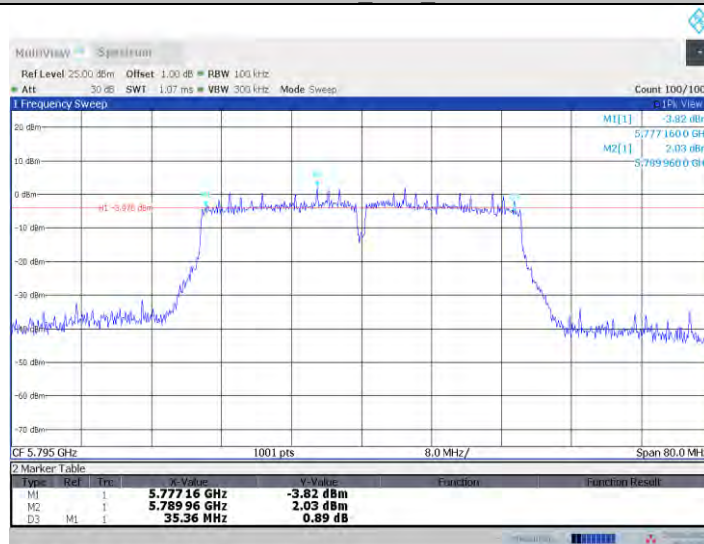
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11n40SISO_Ant0_5755



08:54:48 20.05.2022

11n40SISO_Ant0_5795



08:54:00 20.05.2022



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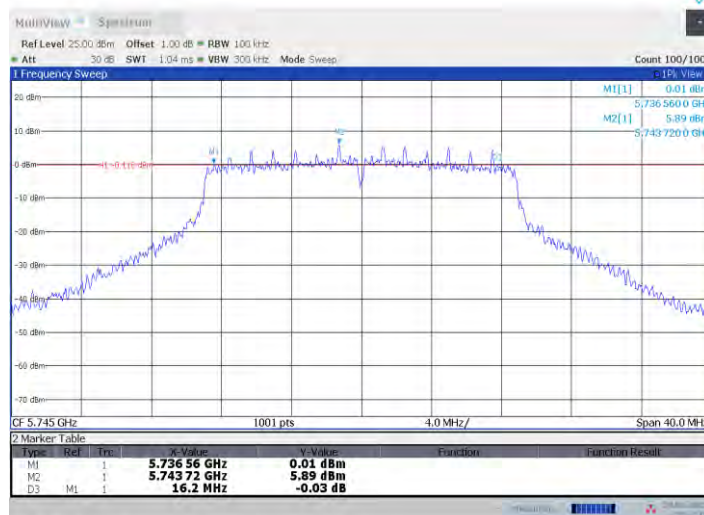
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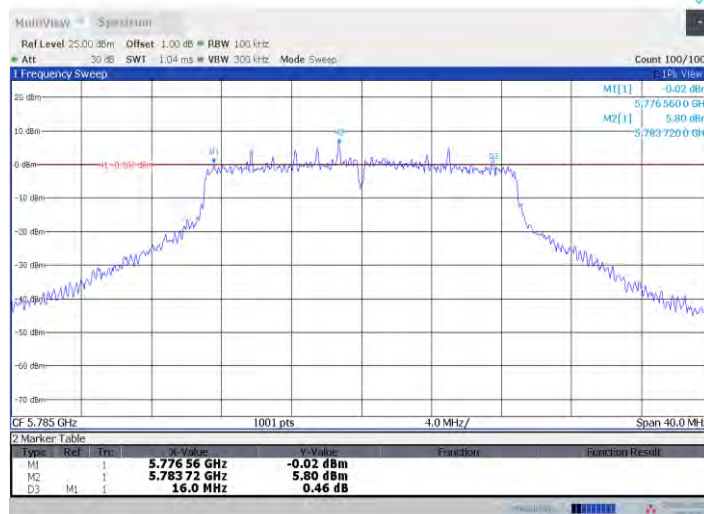
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10:37:31 20.05.2022

11ac20SISO Ant0 5785



10:39:02 20.05.2022



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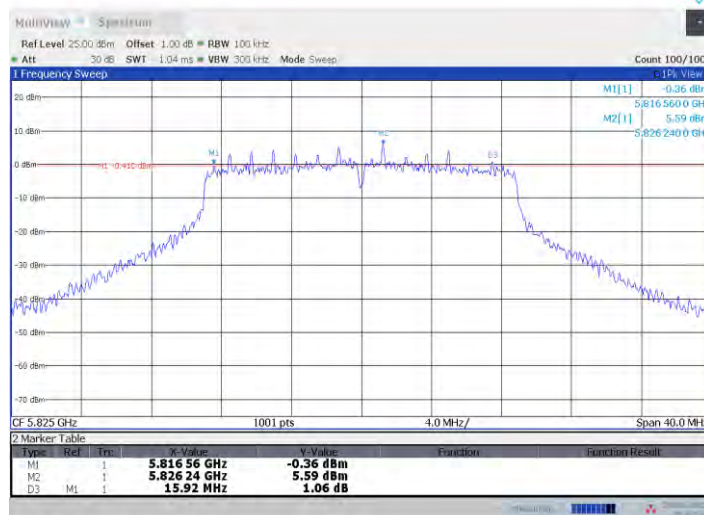
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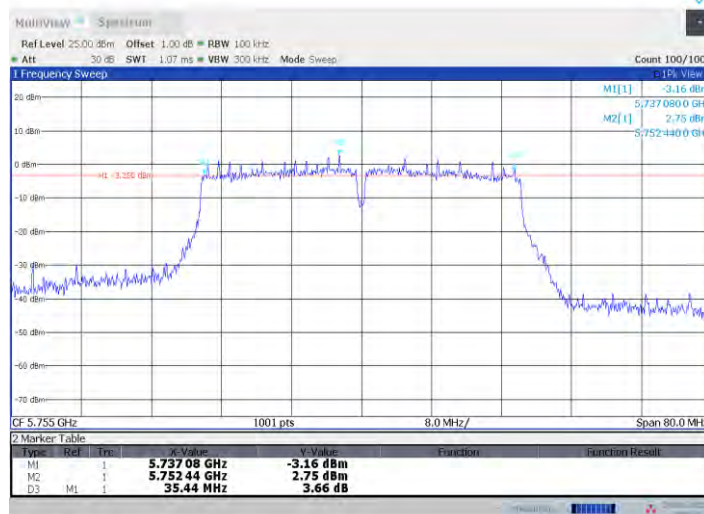
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11ac20SISO Ant0 5825



10:43:34 20.05.2022

11ac40SISO Ant0 5755



10:54:13 20.05.2022



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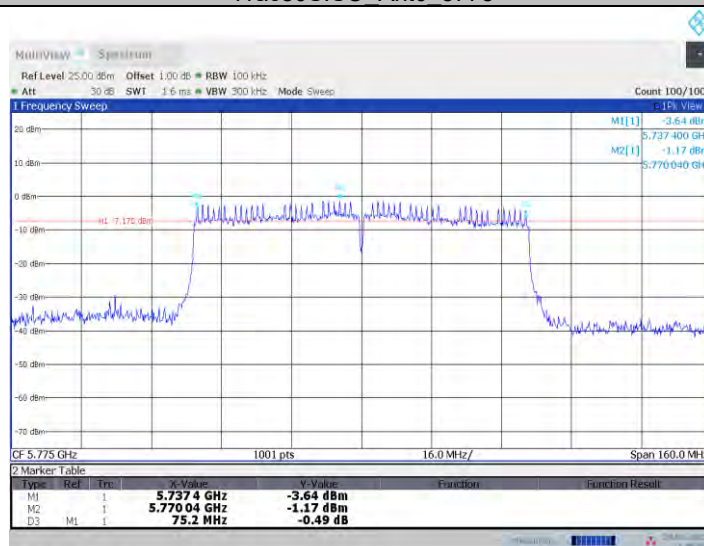
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11ac40SISO Ant0 5795



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

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11a	Ant0	5180	14.22	≤23.98	PASS
		5220	14.18	≤23.98	PASS
		5240	14.12	≤23.98	PASS
		5260	14.16	≤23.98	PASS
		5300	14.10	≤23.98	PASS
		5320	14.13	≤23.98	PASS
		5500	14.13	≤23.98	PASS
		5580	14.34	≤23.98	PASS
		5700	14.79	≤23.98	PASS
		5745	14.72	≤30.00	PASS
		5785	14.20	≤30.00	PASS
		5825	14.32	≤30.00	PASS
11n20SISO	Ant0	5180	14.03	≤23.98	PASS
		5220	14.21	≤23.98	PASS
		5240	14.11	≤23.98	PASS
		5260	14.01	≤23.98	PASS
		5300	14.21	≤23.98	PASS
		5320	13.90	≤23.98	PASS
		5500	14.21	≤23.98	PASS
		5580	14.23	≤23.98	PASS
		5700	13.65	≤23.98	PASS
		5745	14.69	≤30.00	PASS
		5785	14.62	≤30.00	PASS
		5825	14.21	≤30.00	PASS
11n40SISO	Ant0	5190	13.03	≤23.98	PASS
		5230	14.72	≤23.98	PASS
		5270	15.11	≤23.98	PASS
		5310	15.03	≤23.98	PASS
		5510	15.13	≤23.98	PASS
		5550	14.23	≤23.98	PASS
		5670	15.32	≤23.98	PASS
		5755	14.98	≤30.00	PASS
11ac20SISO	Ant0	5795	14.91	≤30.00	PASS
		5180	14.88	≤23.98	PASS
		5220	14.91	≤23.98	PASS
		5240	14.32	≤23.98	PASS
		5260	14.99	≤23.98	PASS
		5300	15.01	≤23.98	PASS
		5320	14.56	≤23.98	PASS
		5500	14.52	≤23.98	PASS
		5580	14.32	≤23.98	PASS
		5700	15.21	≤23.98	PASS
		5745	15.55	≤30.00	PASS
		5785	15.32	≤30.00	PASS
11ac40SISO	Ant0	5825	14.69	≤30.00	PASS
		5190	13.03	≤23.98	PASS
		5230	15.03	≤23.98	PASS
		5270	15.32	≤23.98	PASS
		5310	14.90	≤23.98	PASS
		5510	15.29	≤23.98	PASS
		5550	15.39	≤23.98	PASS
	Ant0	5670	15.69	≤23.98	PASS



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11ac80SISO	Ant0	5755	16.16	≤30.00	PASS
		5795	15.73	≤30.00	PASS
		5210	11.63	≤23.98	PASS
		5290	13.36	≤23.98	PASS
		5530	13.56	≤23.98	PASS
		5610	13.89	≤23.98	PASS
		5775	14.98	≤30.00	PASS



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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海胜路1号的6号厂房南座 邮编: 215000

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

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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11a	Ant0	5180	3.75	≤11.00	PASS
		5220	3.75	≤11.00	PASS
		5240	3.54	≤11.00	PASS
		5260	3.71	≤11.00	PASS
		5300	3.81	≤11.00	PASS
		5320	3.9	≤11.00	PASS
		5500	3.48	≤11.00	PASS
		5580	3.55	≤11.00	PASS
		5700	4.58	≤11.00	PASS
		5745	1.8	≤30.00	PASS
		5785	1.84	≤30.00	PASS
		5825	1.36	≤30.00	PASS
11n20SISO	Ant0	5180	3.64	≤11.00	PASS
		5220	3.66	≤11.00	PASS
		5240	3.02	≤11.00	PASS
		5260	3.6	≤11.00	PASS
		5300	3.66	≤11.00	PASS
		5320	2.85	≤11.00	PASS
		5500	3.16	≤11.00	PASS
		5580	3.4	≤11.00	PASS
		5700	3.81	≤11.00	PASS
		5745	1.39	≤30.00	PASS
		5785	1.09	≤30.00	PASS
		5825	0.51	≤30.00	PASS
11n40SISO	Ant0	5190	-0.98	≤11.00	PASS
		5230	1.13	≤11.00	PASS
		5270	1.47	≤11.00	PASS
		5310	1.15	≤11.00	PASS
		5510	2.37	≤11.00	PASS
		5550	0.95	≤11.00	PASS
		5670	1.69	≤11.00	PASS
		5755	-0.98	≤30.00	PASS
11ac20SISO	Ant0	5795	-1.55	≤30.00	PASS
		5180	4.14	≤11.00	PASS
		5220	4.24	≤11.00	PASS
		5240	3.57	≤11.00	PASS
		5260	1.6	≤11.00	PASS
		5300	4.28	≤11.00	PASS
		5320	3.52	≤11.00	PASS
		5500	3.63	≤11.00	PASS
		5580	3.86	≤11.00	PASS
		5700	4.36	≤11.00	PASS
		5745	1.89	≤30.00	PASS
		5785	1.61	≤30.00	PASS
11ac40SISO	Ant0	5825	1.06	≤30.00	PASS
		5190	-0.75	≤11.00	PASS
		5230	1.87	≤11.00	PASS
		5270	1.79	≤11.00	PASS
		5310	0.63	≤11.00	PASS
		5510	1.28	≤11.00	PASS
		5550	1.54	≤11.00	PASS
		5670	2.25	≤11.00	PASS



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t (86-512) 62992980 www.sgs.com.cn
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11ac80SISO	Ant0	5755	-0.62	≤30.00	PASS
		5795	-0.75	≤30.00	PASS
		5210	-3.35	≤11.00	PASS
		5290	-3.69	≤11.00	PASS
		5530	-3.01	≤11.00	PASS
		5610	-2.38	≤11.00	PASS
		5775	-4.83	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



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