

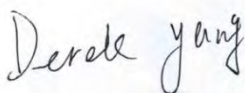
FCC TEST REPORT

Application No.: AR/2021/30015
Applicant: FIH CO., LTD
Address of Applicant: No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
Manufacturer: FIH CO., LTD
Address of Manufacturer: No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
EUT Description: WCDMA/LTE Mobile Phone
Model No.: EA1002, EC1002
Trade Mark: FIH
FCC ID: RYQEC1002
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR FCC Part 15, Subpart E
Date of Receipt: 2020/12/18
Date of Test: 2021/3/18 to 2021/4/15
Date of Issue: 2021/4/29

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:



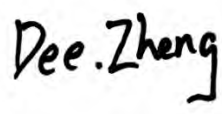
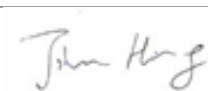
Derek Yang
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/4/29		Original

Authorized for issue by:		
Prepared By		 (Dee Zheng) / Engineer
Checked By		 (Jim Huang) / Reviewer



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2 Test Summary

Test Item	Band	FCC rules	Test Requirements	Test Result	Result	Test Lab*
26dB Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Clause 4.5	PASS	A
	5250-5350	15.403(i) 15.407(a)(2)				
	5470-5725	15.403(i) 15.407(a)(2)				
6dB Emission Bandwidth	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.	Clause 4.6	PASS	A
99% Occupied Bandwidth	5150-5250	KDB 789033 D02§ D	No limit.	Clause 4.7	PASS	A
	5250-5350					
	5470-5725					
	5725-5850					
Duty Cycle	5150-5850	--	No limit.	Clause 4.3	PASS	A
Maximum Conducted Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)	Clause 4.4	PASS	A
	5250-5350	15.407(a)(2) 15.407(a)(4)	<MIN{250mW, 11dBm+10*lg(EBW)} (avg during transmission)			
	5470-5725	15.407(a)(2) 15.407(a)(4)	<MIN{250mW, 11dBm+10*lg(EBW)} (avg during transmission)			
	5725-5850	15.407(a)(3)	< 1W (avg during transmission)			
Maximum Power Spectral Density	5150-5250	15.407(a)(1) 15.407(a)(4)	<11dBm/MHz (avg during transmission)	Clause 4.8	PASS	A
	5250-5350	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)			
	5470-5725	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)			
	5725-5850	15.407(a)(3) 15.407(a)(4)	<30dBm/500KHz (avg during transmission)			
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	5150-5250	15.407(b)(1) 15.407(b)(6) 15.407(b)(7) 15.209	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	B
	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 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:		PASS	



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	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	§15.209/§7.2.5 limit (AV&PK). 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	
	5725-5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz & out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS	
Unwanted Emissions in the Restricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209	---	Clause 4.10	PASS	B
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	---	Clause 4.2	PASS	B
Frequency Stability	5150-5250 5250-5350 5470-5725 5725-	15.209	---	Clause 4.11	PASS	A



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	5850					
Dynamic Frequency Selection	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Clause 4.12	PASS	B

Remark : All test were performed by Lab A and B.

Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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Shenzhen Branch Inspection & Testing Services Laboratory

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Report No.: SAR/2021/3001505

Page: 6 of 189

Remark:

This test report (Report No.: SAR/2021/3001505) is based on the original test report (Report No.: AR/2020/C000805) issued on 2021-03-08.

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

Considering 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 radiated spurious emissions were performed based on the worst case of the original report with report number AR/2020/C000805 and other test data in this report are based on the previous report with report number AR/2020/C000805.



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3 General Information

3.1 Details of Client

Applicant:	FIH CO., LTD
Address of Applicant	No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
Manufacturer:	FIH CO., LTD
Address of Manufacturer	No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan

3.2 Test Location

Lab A:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Dee Zheng, Swing Hu, Habit Zeng

Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Leah Chen, Ken Liu, Andy Yao



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3.3 Test Facility

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

Lab A:

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

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

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

FCC-Designation Number: CN1271.



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3.4 General Description of EUT

EUT Description:	WCDMA/LTE Mobile Phone
Model No.:	EA1002, EC1002
Trade Mark:	FIH
Hardware Version:	HW 3.0
Software Version:	EA1002_01N0_1_180, EC1002_00N0_1_180
IEEE 802.11 WLAN Mode Supported	☒ 802.11a (20 MHz channel bandwidth), ☒ 802.11n (20 MHz channel bandwidth), ☒ 802.11n (40 MHz channel bandwidth), ☒ 802.11ac (20 MHz channel bandwidth) ☒ 802.11ac (40 MHz channel bandwidth) ☒ 802.11ac (80 MHz channel bandwidth) ☐ 802.11ac (160 MHz channel bandwidth)
Operation Frequency:	IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5250MHz to 5350MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5470MHz to 5725MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
DFS mode:	☐ Master ☐ Slave with radar detection ☒ Slave without radar detection
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Smart System	☒ SISO (for 802.11a/n/ac), ☐ MIMO (for 802.11n/ac), ☐ Diversity (for 802.11a).
Antenna Gain:	3.32dBi

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

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

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.



4 Test results and Measurement Data

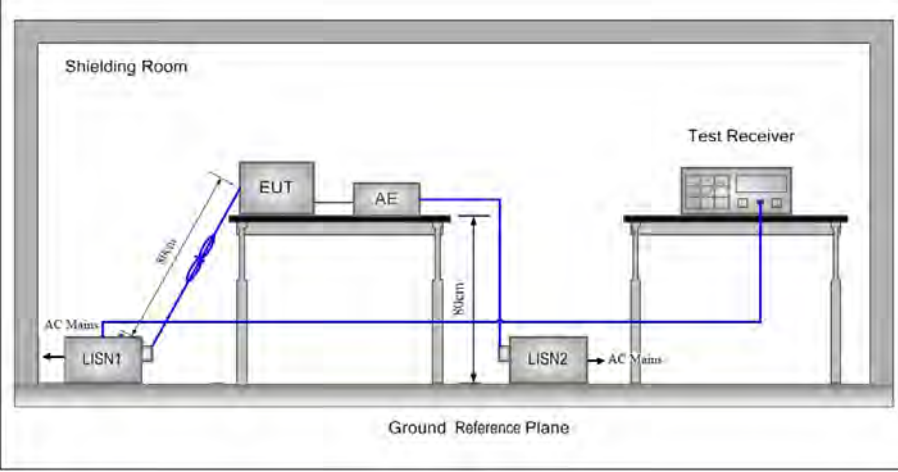
4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is 3.32dBi.	

4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
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.		



Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass



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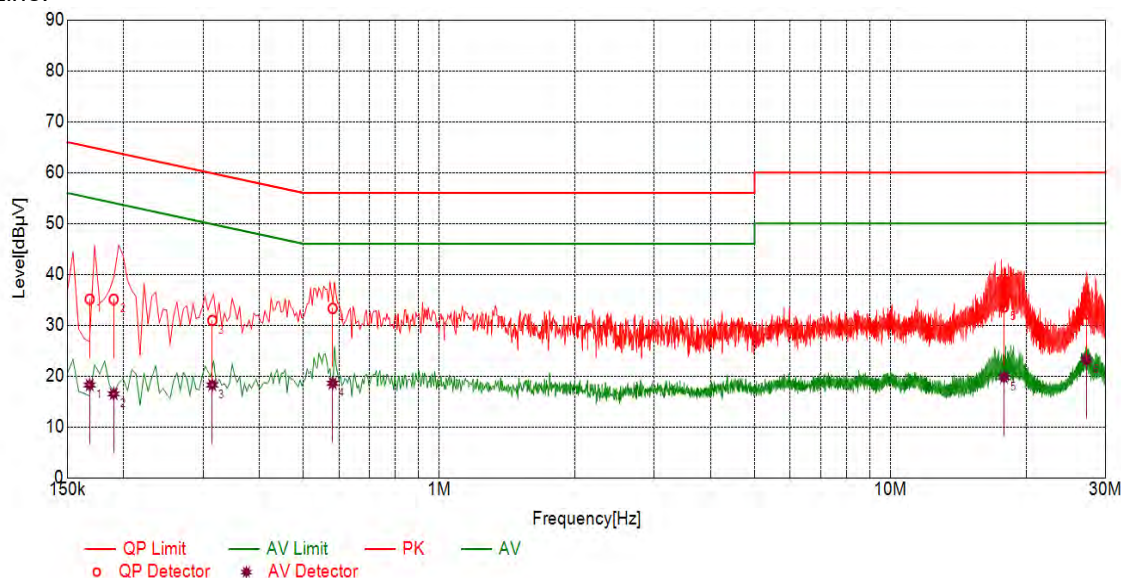
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Measurement Data

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.

Live Line:



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1682	10.10	35.11	65.05	29.94	18.24	55.05	36.81	L
2	0.1901	10.10	35.07	64.03	28.96	16.50	54.03	37.53	L
3	0.3143	10.10	30.94	59.86	28.92	18.25	49.86	31.61	L
4	0.5810	10.10	33.30	56.00	22.70	18.59	46.00	27.41	L
5	17.8603	10.11	33.61	60.00	26.39	19.74	50.00	30.26	L
6	27.1678	10.11	32.26	60.00	27.74	23.17	50.00	26.83	L

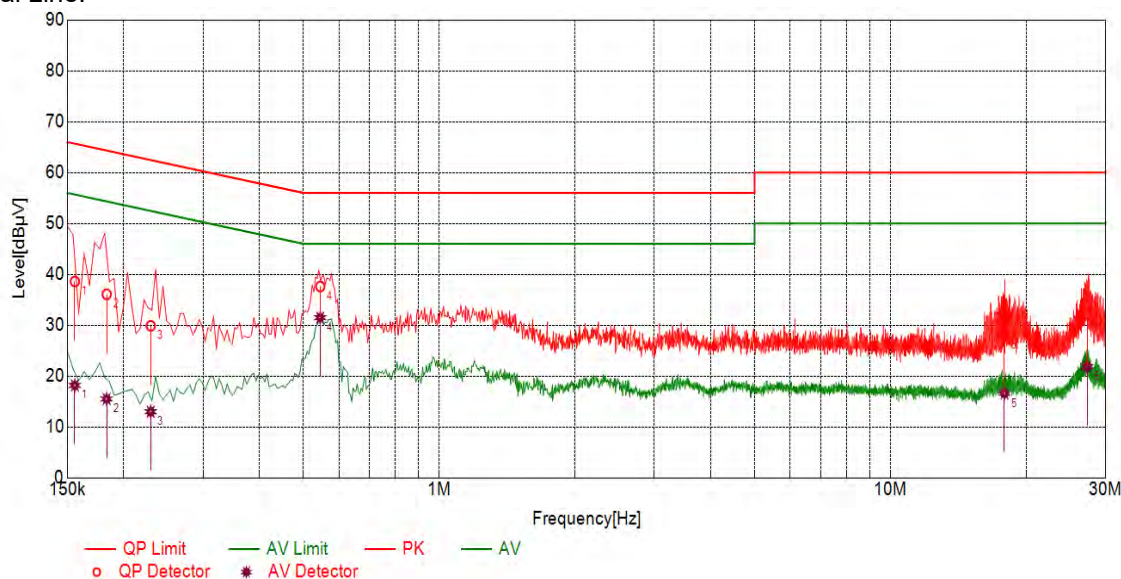


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Neutral Line:



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1559	10.10	38.60	65.68	27.08	18.17	55.68	37.51	N
2	0.1834	10.10	36.08	64.33	28.25	15.49	54.33	38.84	N
3	0.2296	10.10	29.88	62.46	32.58	13.00	52.46	39.46	N
4	0.5453	10.10	37.62	56.00	18.38	31.48	46.00	14.52	N
5	17.8998	10.11	28.08	60.00	31.92	16.59	50.00	33.41	N
6	27.2840	10.11	32.13	60.00	27.87	21.86	50.00	28.14	N

Remarks:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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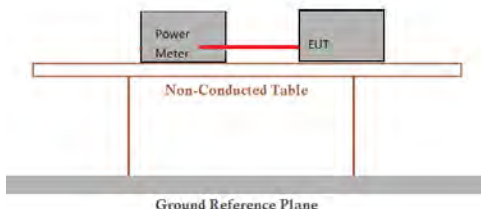
4.3 Duty Cycle

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	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.	
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	

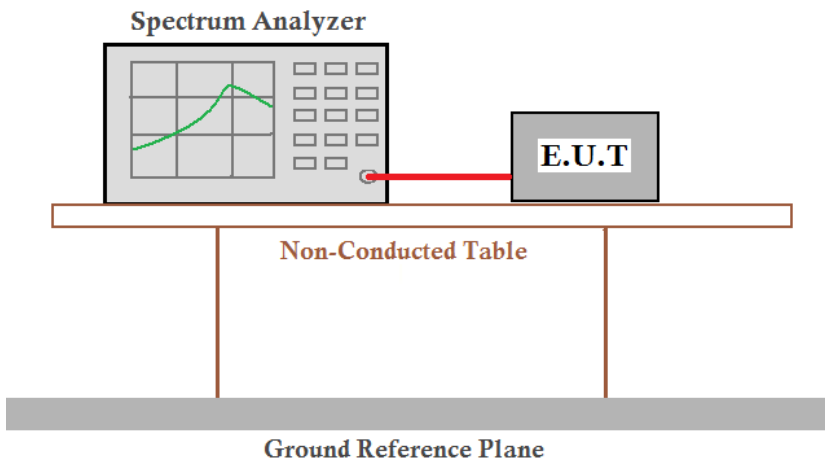
The detailed test data see: **Appendix**



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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
Test Setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass

The detailed test data see: **Appendix**



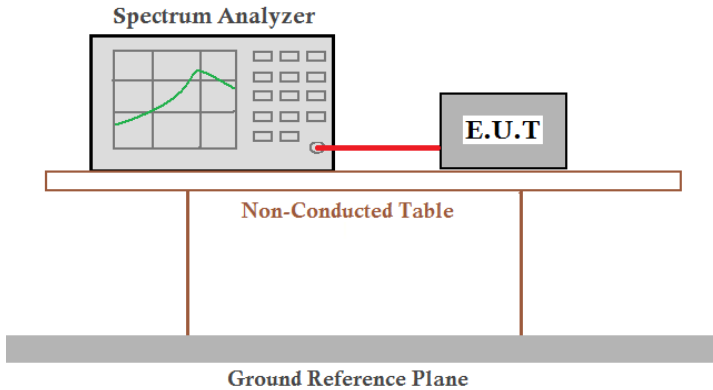
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4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At lease 500kHz
Test Results:	Pass	

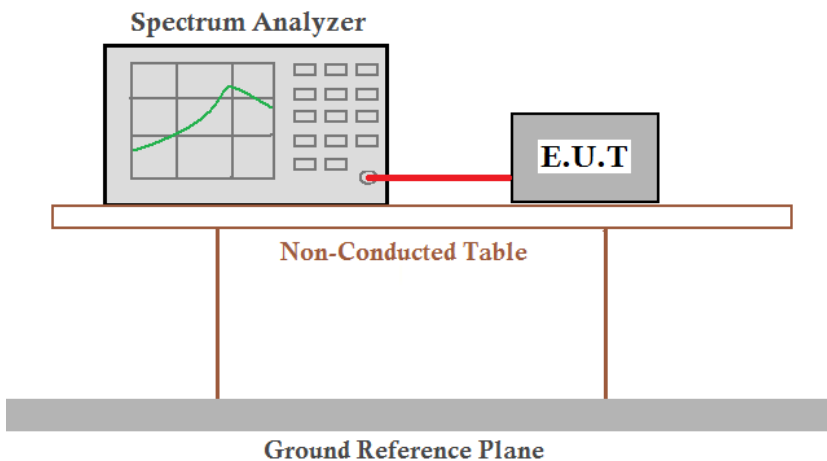
The detailed test data see: **Appendix**



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4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass

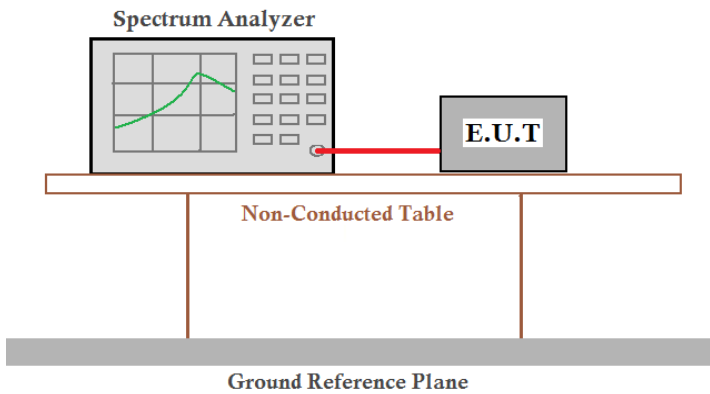
The detailed test data see: **Appendix**



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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 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:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.	
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 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	

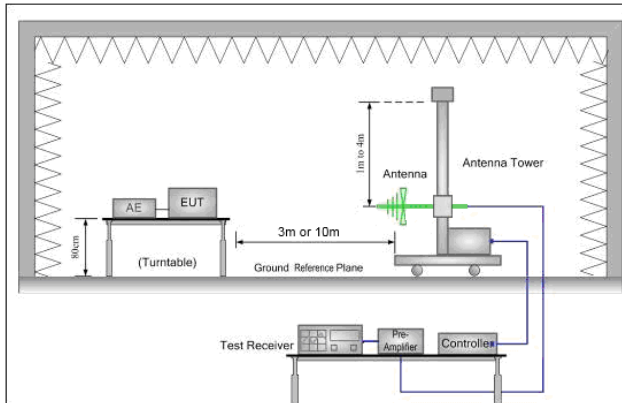


Figure 1. 30MHz to 1GHz

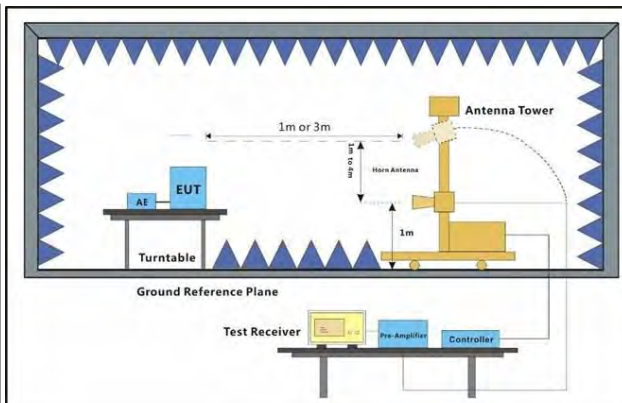


Figure 2. Above 1 GHz

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. - 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. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - 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. - Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40);



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	MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass



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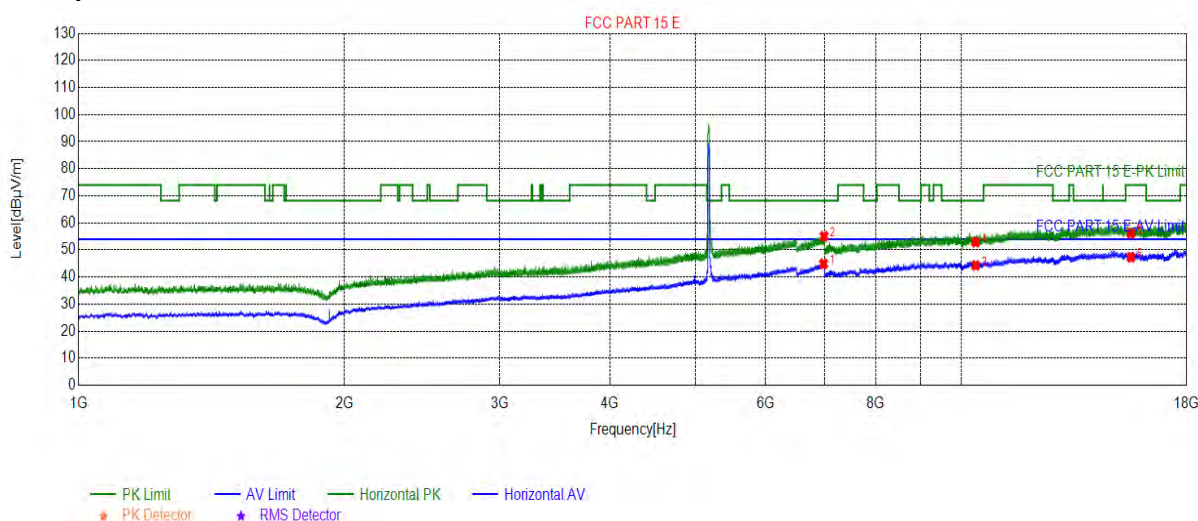
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Test on the worst case:

4.9.1.1 802.11AC40_Channel 38

Test Graph



Suspected List

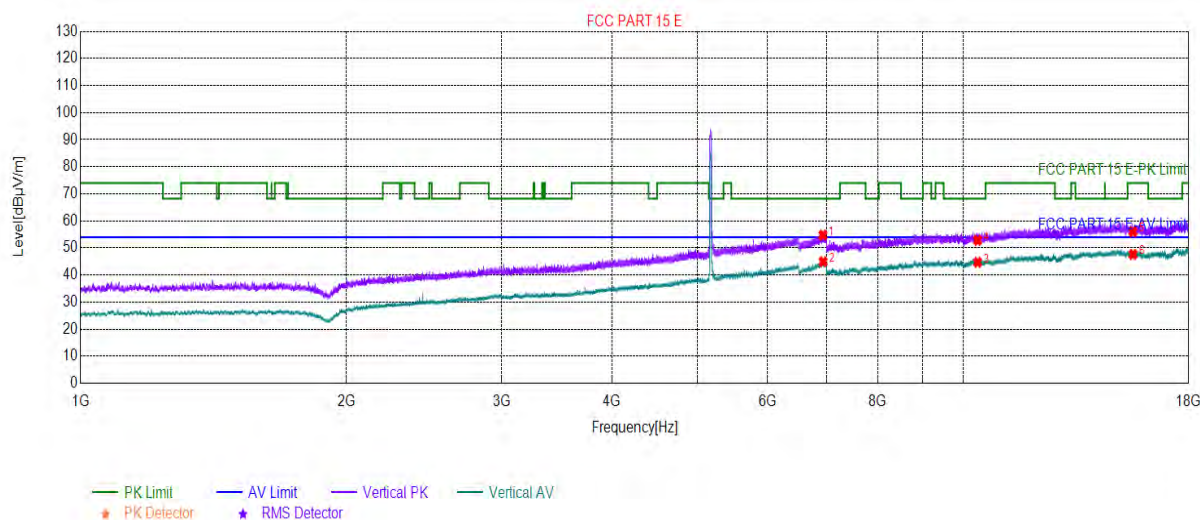
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6982.89	44.88	21.45	54.00	9.12	168	311	Horizontal
2	6990.99	55.02	21.59	68.20	13.18	170	68	Horizontal
3	10380.0	44.29	-1.90	54.00	9.71	210	137	Horizontal
4	10380.0	52.91	-1.90	68.20	15.29	251	93	Horizontal
5	15570.0	56.13	1.91	74.00	17.87	174	32	Horizontal
6	15570.0	47.27	1.91	54.00	6.73	198	177	Horizontal

Final Data List



4.9.1.2 802. 11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6934.29	54.77	21.44	68.20	13.43	178	48	Vertical
2	6937.89	44.92	21.46	54.00	9.08	189	27	Vertical
3	10380.0	44.68	-1.90	54.00	9.32	198	300	Vertical
4	10380.0	52.82	-1.90	68.20	15.38	240	250	Vertical
5	15570.0	56.00	1.91	74.00	18.00	230	155	Vertical
6	15570.0	47.61	1.91	54.00	6.39	220	332	Vertical

Final Data List

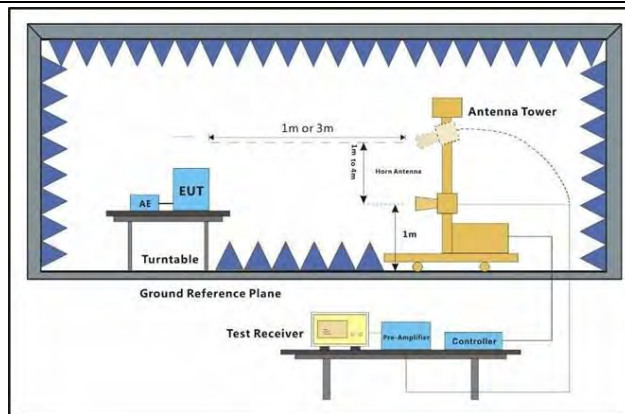
Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All modes have been tested, but only the worst case data displayed in this report.



4.10 Restricted bands around fundamental frequency

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



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Test Procedure:	a. 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. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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 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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass



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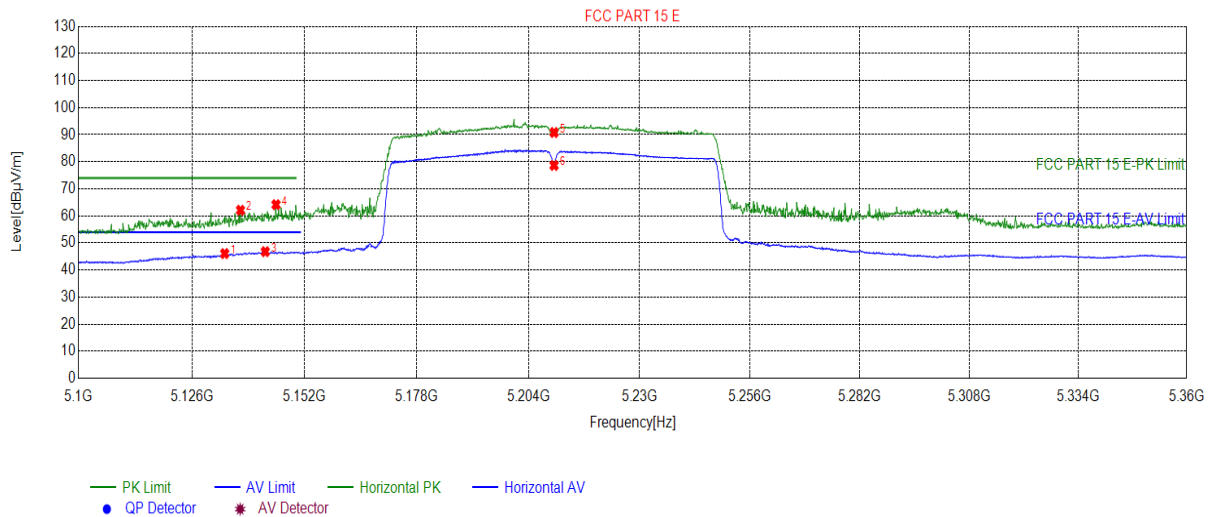
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4.10.1 Test Plots

Test on the worst case:

4.10.1.1 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5133.55	46.07	16.73	54.00	7.93	168	204	Horizontal
2	5137.19	62.09	16.98	74.00	11.91	158	1	Horizontal
3	5142.92	46.79	16.98	54.00	7.21	174	356	Horizontal
4	5145.39	64.14	16.81	74.00	9.86	169	356	Horizontal
5	5210.00	90.80	16.77	0.00	-90.80	178	201	Horizontal
6	5210.00	78.65	16.77	0.00	-78.65	186	356	Horizontal

Final Data List



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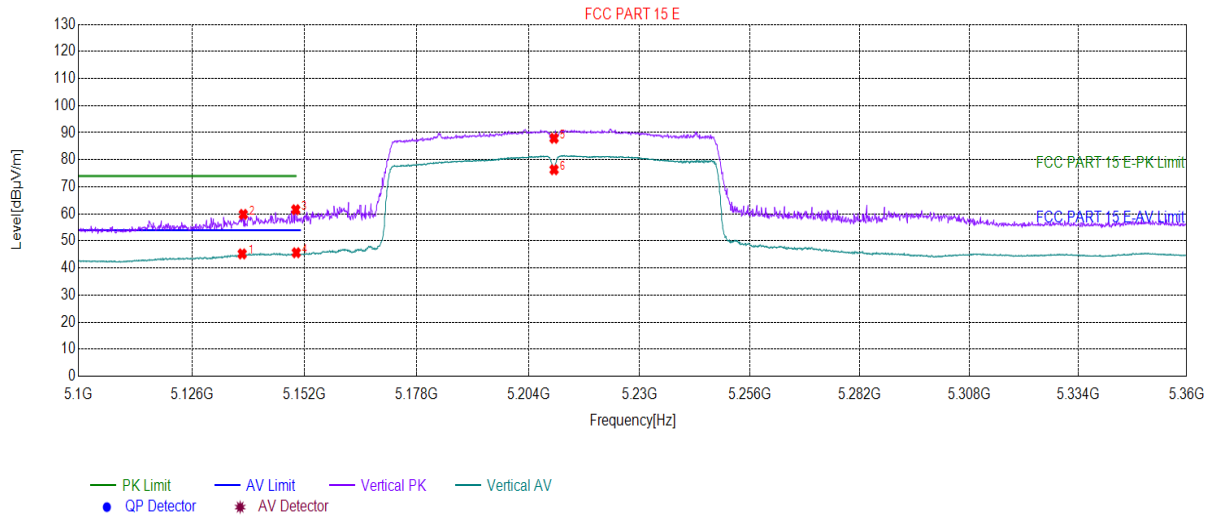
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4.10.1.2 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5137.58	45.22	17.01	54.00	8.78	224	116	Vertical
2	5137.84	59.82	17.02	74.00	14.18	189	118	Vertical
3	5149.94	61.54	16.50	74.00	12.46	248	320	Vertical
4	5150.07	45.65	16.51	54.00	8.35	178	122	Vertical
5	5210.00	87.93	16.77	0.00	-87.93	245	131	Vertical
6	5210.00	76.32	16.77	0.00	-76.32	156	112	Vertical

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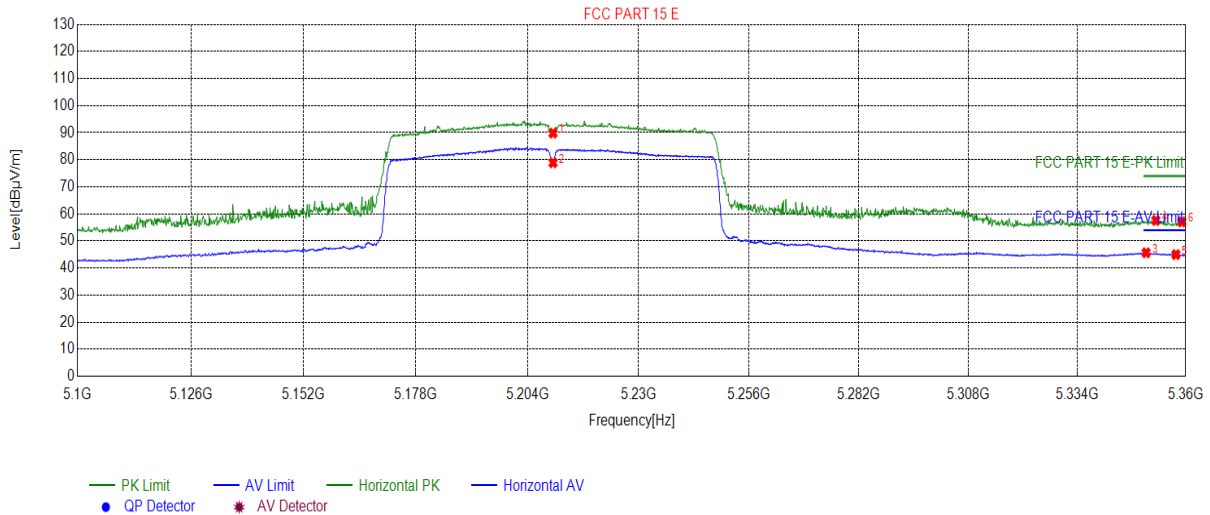
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4.10.1.3 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	89.84	16.77	0.00	-89.84	159	203	Horizontal
2	5210.00	78.88	16.77	0.00	-78.88	178	356	Horizontal
3	5350.50	45.63	17.68	54.00	8.37	165	345	Horizontal
4	5352.84	57.58	17.50	74.00	16.42	174	25	Horizontal
5	5357.65	44.96	17.14	54.00	9.04	168	345	Horizontal
6	5359.08	57.04	17.03	74.00	16.96	158	177	Horizontal

Final Data List



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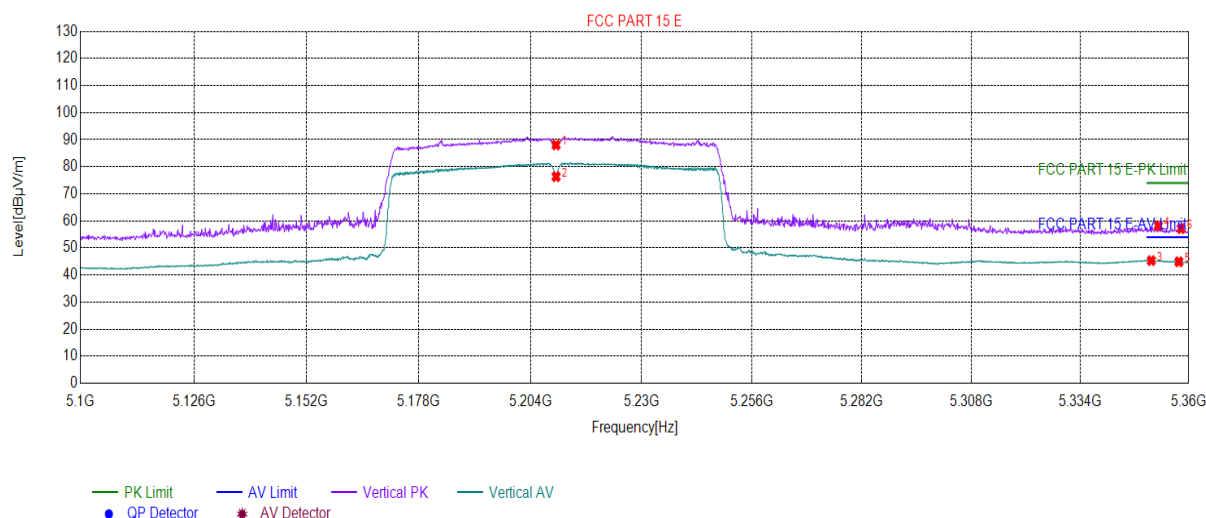
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4.10.1.4 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	88.04	16.77	0.00	-88.04	222	109	Vertical
2	5210.00	76.35	16.77	0.00	-76.35	241	113	Vertical
3	5351.02	45.32	17.64	54.00	8.68	289	79	Vertical
4	5352.71	58.15	17.51	74.00	15.85	246	350	Vertical
5	5357.65	44.90	17.14	54.00	9.10	245	113	Vertical
6	5358.17	57.16	17.10	74.00	16.84	189	79	Vertical

Final Data List

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All modes have been tested, but only the worst case data displayed in this report.



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4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.004799	5825.009473
V max(V)	5180.012786	5825.012520
V min(V)	5180.014745	5825.013545
Max. Deviation Frequency	0.014745	0.013545
Max. Frequency Error (ppm)	2.846545	2.325386

4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency (MHz)	
	5180	5825
-5	5180.003709	5825.004766
5	5180.008301	5825.013779
15	5180.012054	5825.023384
25	5180.021106	5825.029616
35	5180.029322	5825.033119
45	5180.029328	5825.037450
50	5180.030085	5825.043233
Max. Deviation Frequency	0.030085	0.043233
Max. Frequency Error (ppm)	5.807876	7.422005



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4.12 Dynamic Frequency Selection

4.12.1 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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4.12.2 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.	

4.12.3 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: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel move</i> (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 <i>U-NII Detection Bandwidth</i> 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.	



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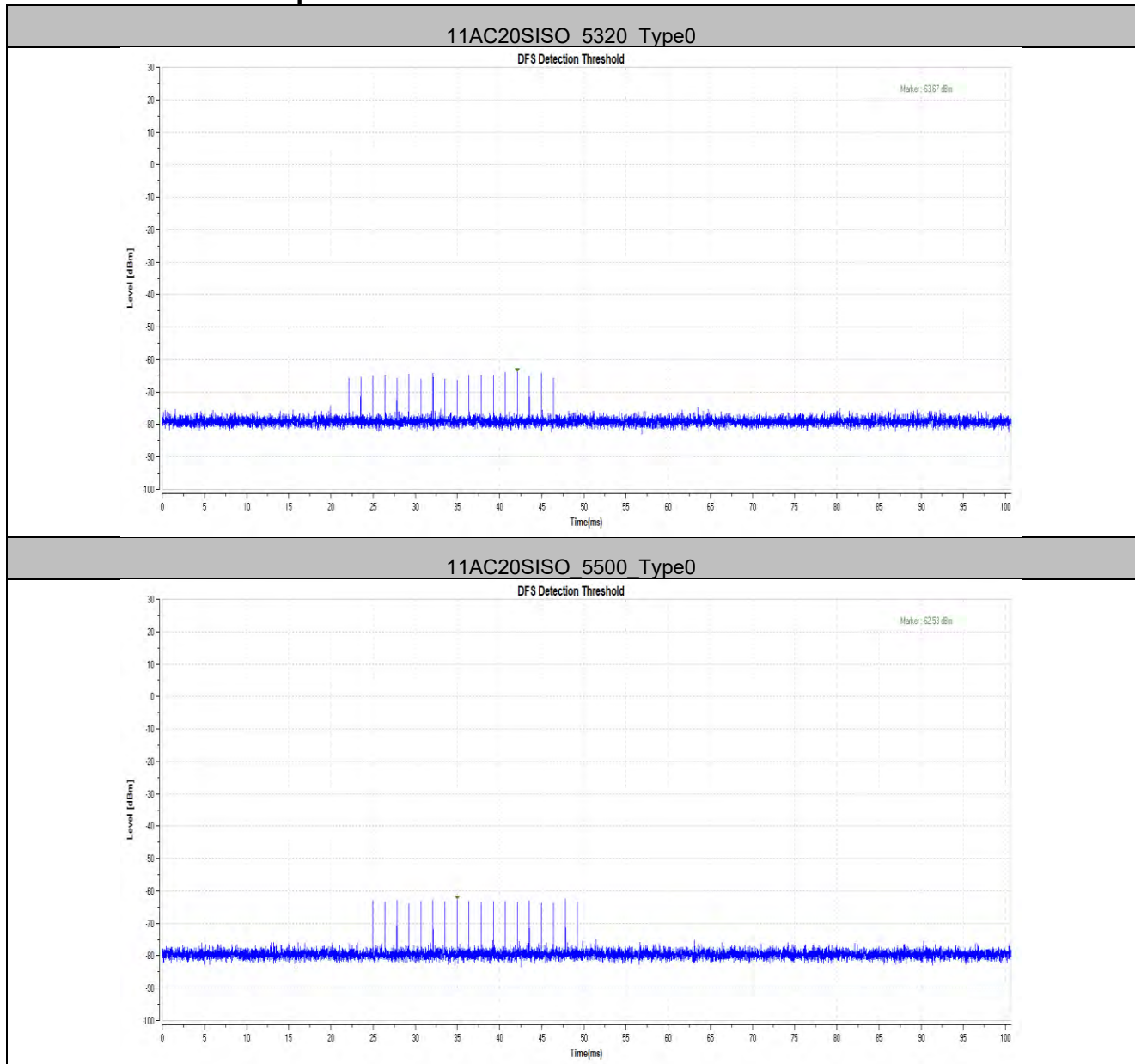
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4.12.4 Test plots
4.12.4.1 DFS Detection Thresholds
4.12.4.1.1 Test Result

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-63.67	-62.00	PASS
	5500	Type0	-62.53	-62.00	PASS
11AC80SISO	5290	Type0	-62.43	-62.00	PASS
	5530	Type0	-62.85	-62.00	PASS



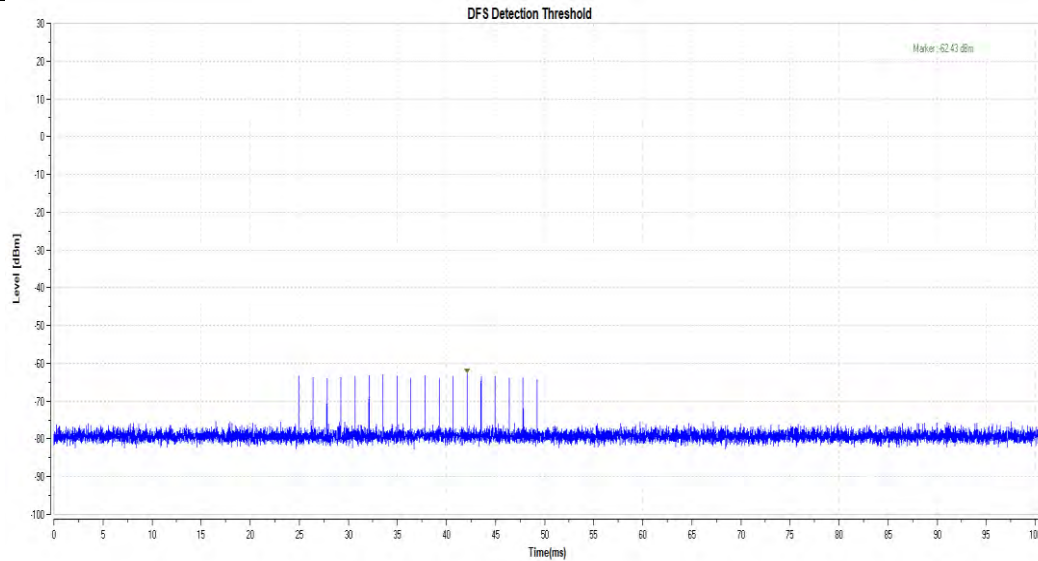
4.12.4.1.2 Test Graphs



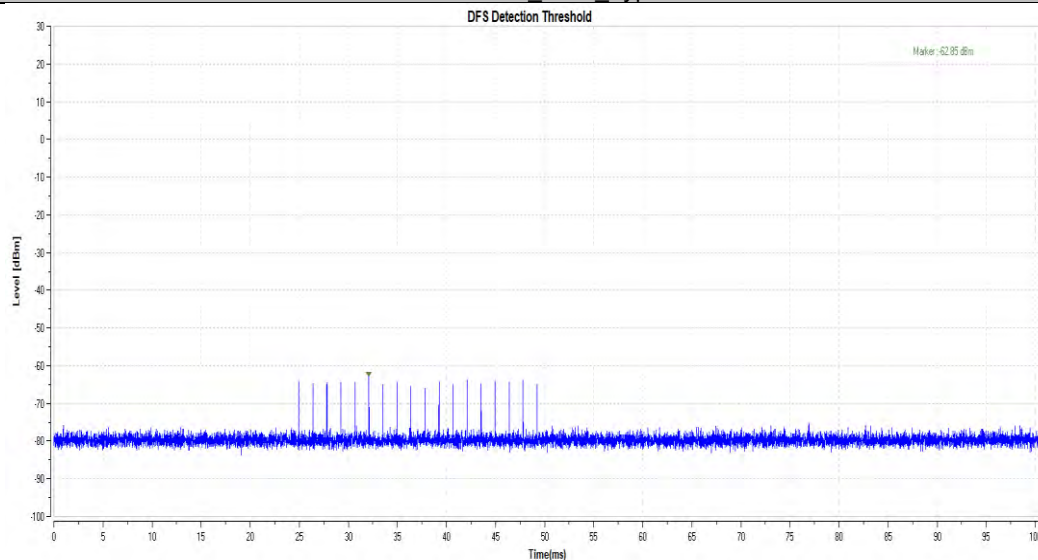
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11AC80SISO 5290 Type0



11AC80SISO 5530 Type0



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4.12.4.2 Channel Move Time and Channel Closing Transmission Time

4.12.4.2.1 Test Result

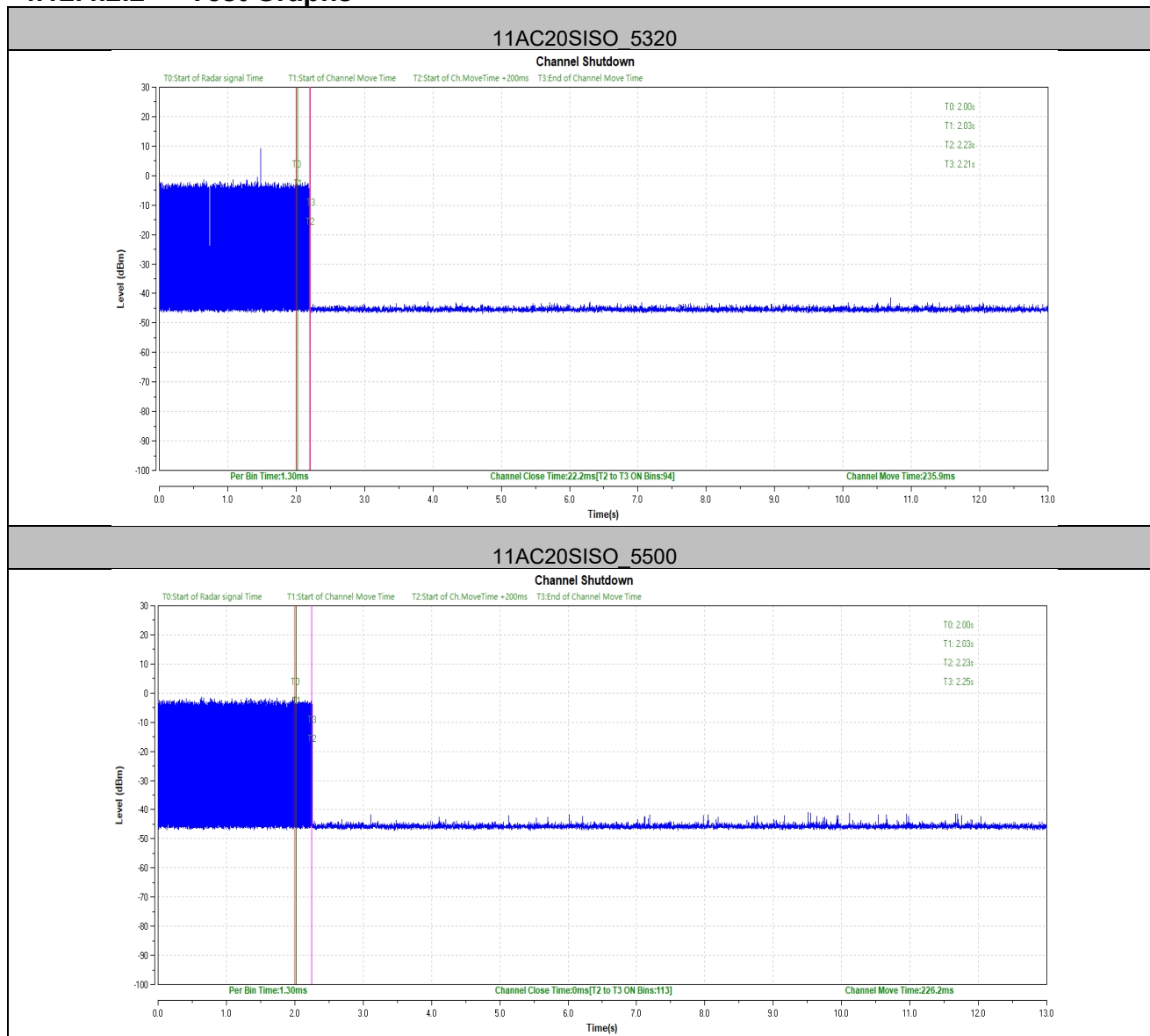
TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	22.2	60	235.9	10000	PASS
	5500	0	60	226.2	10000	PASS
11AC80SISO	5290	52.5	60	245.7	10000	PASS
	5530	0	60	206.7	10000	PASS



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4.12.4.2.2 Test Graphs



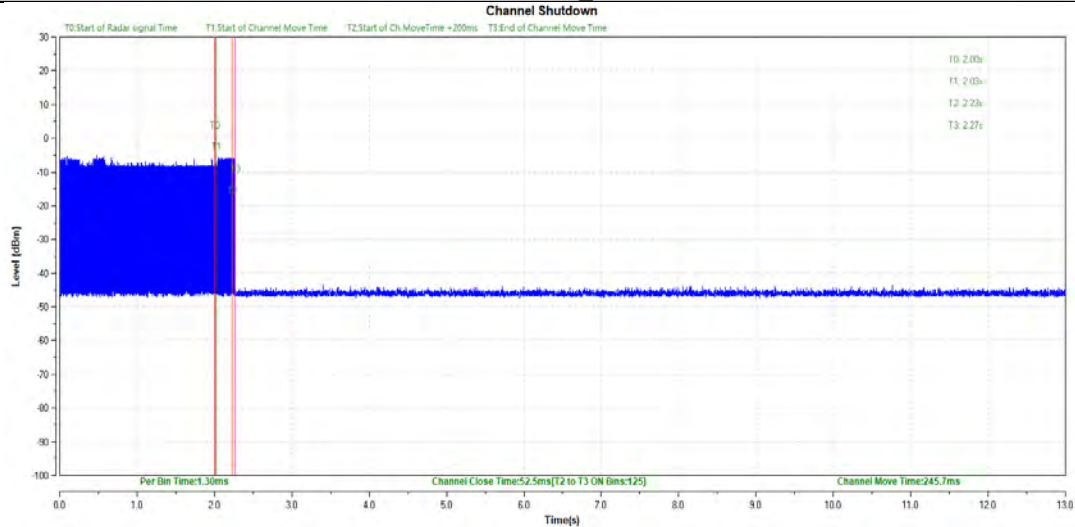
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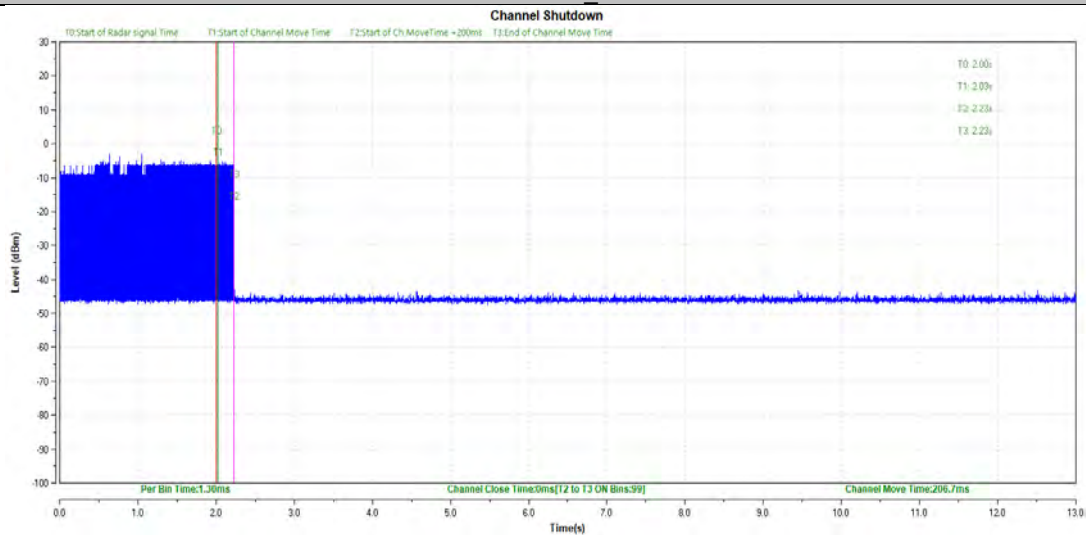
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11AC80SISO_5290



11AC80SISO_5530



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4.12.4.3 Non-Occupancy Period

4.12.4.3.1 Test Result

TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	>=1800	PASS
	5500	see test graph	>=1800	PASS
11AC80SISO	5290	see test graph	>=1800	PASS
	5530	see test graph	>=1800	PASS



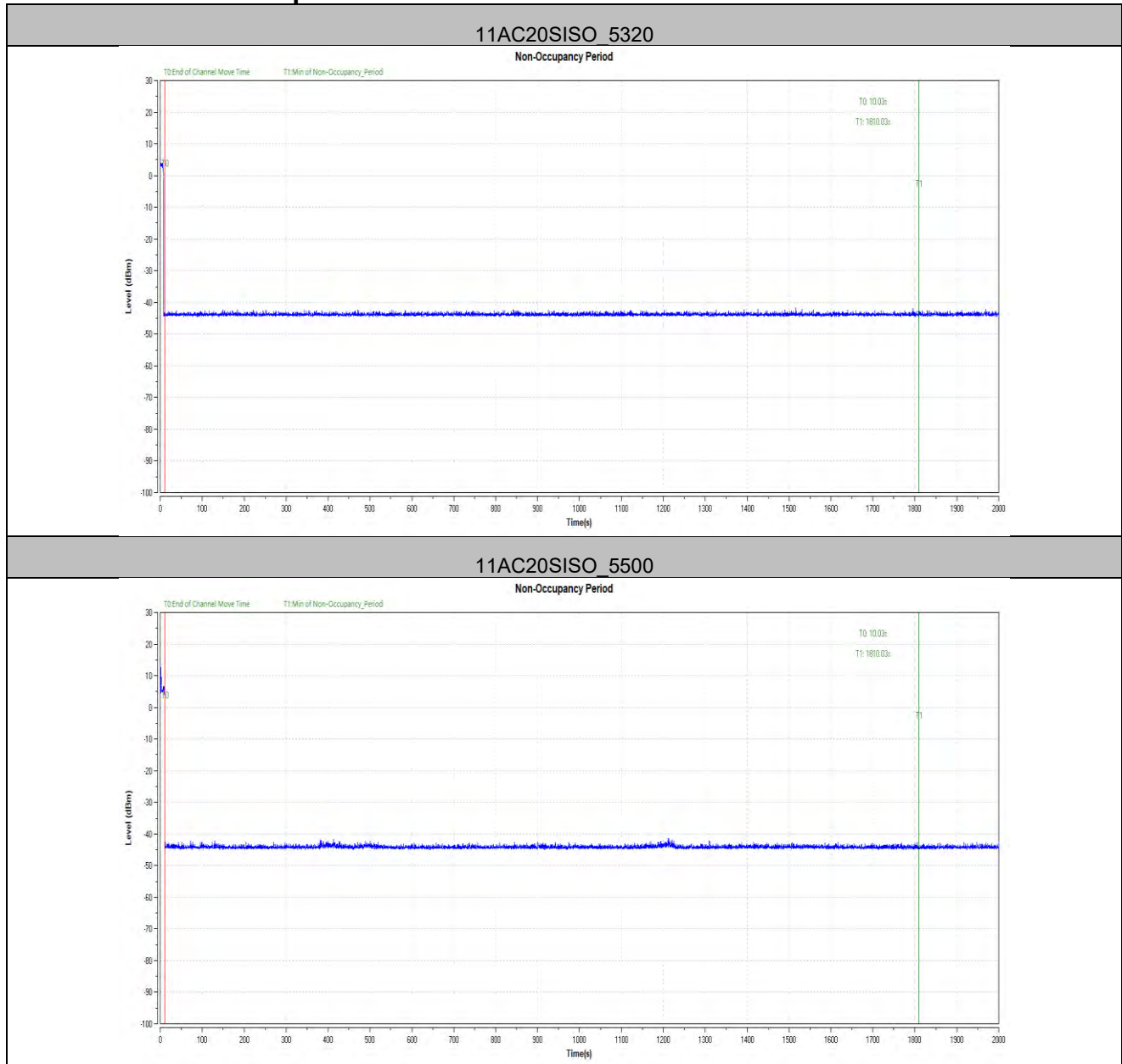
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4.12.4.3.2 Test Graphs



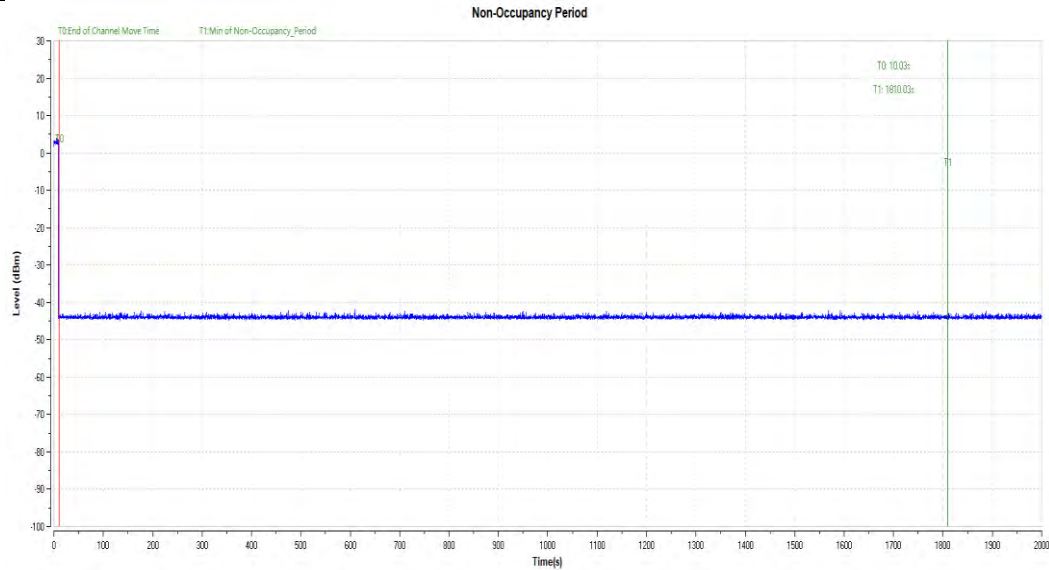
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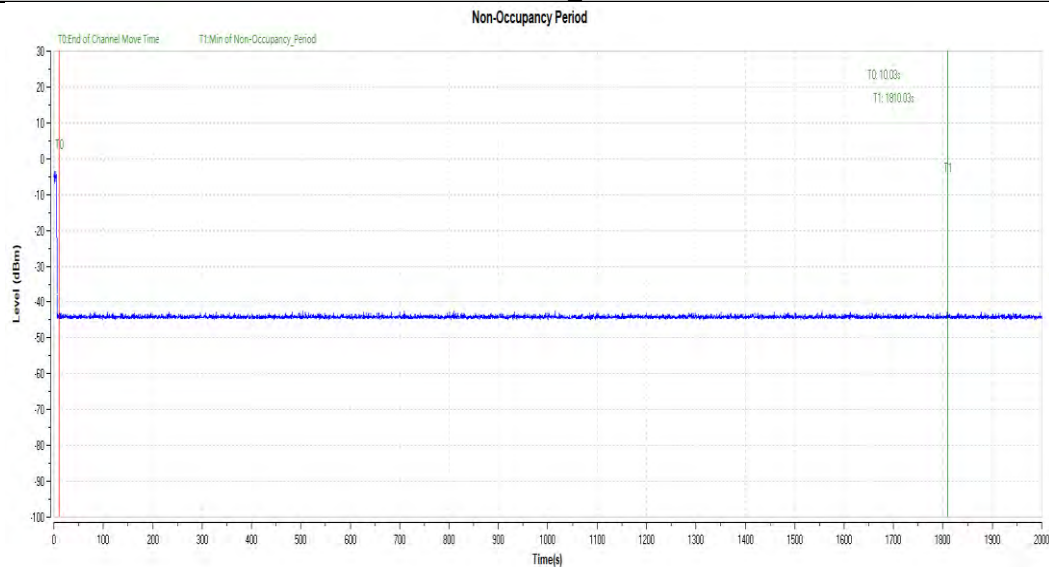
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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.41dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 ⁻⁸
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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6 Equipment List

RF conducted					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/4/16	2021/4/15
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2020/7/15	2021/7/15
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/13
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2020/4/21	2021/4/20

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR

DFS					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A
MXA signal analyzer	Angilent	N9020A	XAW01-06-07	2020/4/16 2021/4/1	2021/4/15 2022/3/31
MXG vector signal Generator	Angilent	N5182B	XAW01-07-16	2021/4/1 2020/4/16	2022/3/31 2021/4/15
MXG vector signal Generator	Angilent	N5182A	XAW01-07-17	2021/4/1 2020/4/16	2022/03/31 2021/4/15



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
				2021-04-01	2022-03-31
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2019-06-28	2020-06-27
				2020-04-15	2021-04-14
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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7 Photographs - EUT Constructional Details

Refer to Appendix A PCE Setup Photos.



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**Emission Bandwidth
Test Result**

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.310	5169.830	5190.140	---	PASS
		5200	20.340	5189.770	5210.110	---	PASS
		5240	20.190	5229.920	5250.110	---	PASS
		5260	20.310	5249.890	5270.200	---	PASS
		5300	20.310	5289.830	5310.140	---	PASS
		5320	20.280	5309.770	5330.050	---	PASS
		5500	20.520	5489.590	5510.110	---	PASS
		5580	22.230	5569.890	5592.120	---	PASS
		5700	20.220	5689.830	5710.050	---	PASS
		5745	20.790	5734.350	5755.140	---	PASS
		5785	20.520	5774.590	5795.110	---	PASS
		5825	20.310	5814.860	5835.170	---	PASS
11N20SISO	Ant1	5180	20.580	5169.740	5190.320	---	PASS
		5200	20.640	5189.650	5210.290	---	PASS
		5240	20.640	5229.620	5250.260	---	PASS
		5260	20.550	5249.740	5270.290	---	PASS
		5300	20.580	5289.710	5310.290	---	PASS
		5320	20.610	5309.650	5330.260	---	PASS
		5500	20.550	5489.680	5510.230	---	PASS
		5580	20.610	5569.680	5590.290	---	PASS
		5700	20.580	5689.710	5710.290	---	PASS
		5745	20.760	5734.590	5755.350	---	PASS
		5785	20.910	5774.710	5795.620	---	PASS
		5825	20.640	5814.680	5835.320	---	PASS
11N40SISO	Ant1	5190	41.040	5169.540	5210.580	---	PASS
		5230	41.340	5209.300	5250.640	---	PASS
		5270	41.220	5249.480	5290.700	---	PASS
		5310	40.800	5289.540	5330.340	---	PASS
		5510	40.920	5489.360	5530.280	---	PASS



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		5550	41.040	5529.480	5570.520	---	PASS
		5670	40.920	5649.540	5690.460	---	PASS
		5755	41.100	5734.420	5775.520	---	PASS
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11AC20SISO	Ant1	5180	20.610	5169.650	5190.260	---	PASS
		5200	20.520	5189.740	5210.260	---	PASS
		5240	20.580	5229.770	5250.350	---	PASS
		5260	20.550	5249.710	5270.260	---	PASS
		5300	20.490	5289.770	5310.260	---	PASS
		5320	20.610	5309.680	5330.290	---	PASS
		5500	20.640	5489.680	5510.320	---	PASS
		5580	20.580	5569.710	5590.290	---	PASS
		5700	20.490	5689.710	5710.200	---	PASS
		5745	20.550	5734.650	5755.200	---	PASS
		5785	20.610	5774.680	5795.290	---	PASS
		5825	20.610	5814.710	5835.320	---	PASS
11AC40SISO	Ant1	5190	41.040	5169.420	5210.460	---	PASS
		5230	41.100	5209.420	5250.520	---	PASS
		5270	41.040	5249.600	5290.640	---	PASS
		5310	40.800	5289.540	5330.340	---	PASS
		5510	41.100	5489.360	5530.460	---	PASS
		5550	41.220	5529.360	5570.580	---	PASS
		5670	40.980	5649.480	5690.460	---	PASS
		5755	41.160	5734.300	5775.460	---	PASS
		5795	41.220	5774.360	5815.580	---	PASS
11AC80SISO	Ant1	5210	81.840	5169.080	5250.920	---	PASS
		5290	81.000	5249.440	5330.440	---	PASS
		5530	81.480	5489.080	5570.560	---	PASS
		5610	81.600	5569.200	5650.800	---	PASS
		5775	81.720	5733.960	5815.680	---	PASS



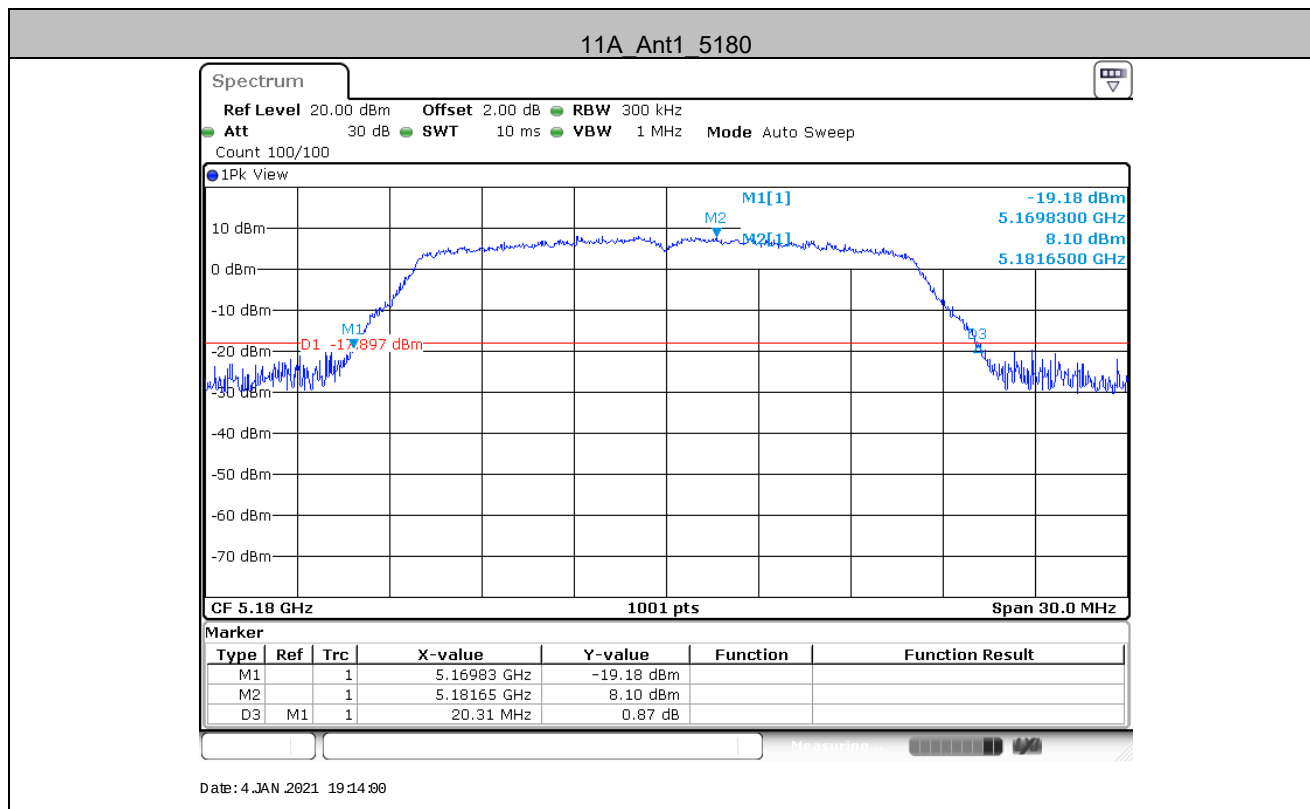
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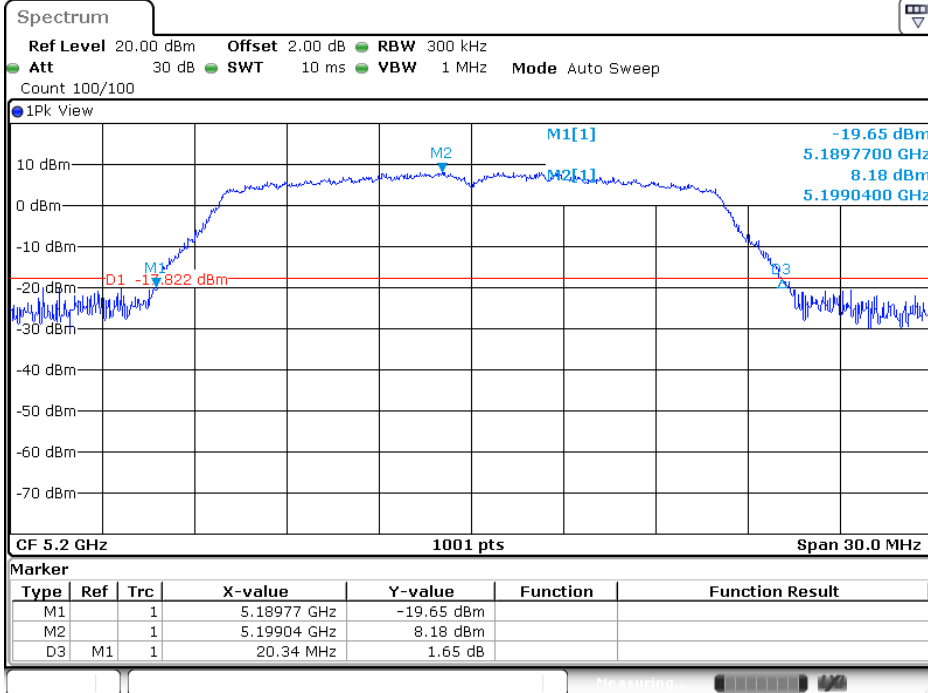
Test Graphs



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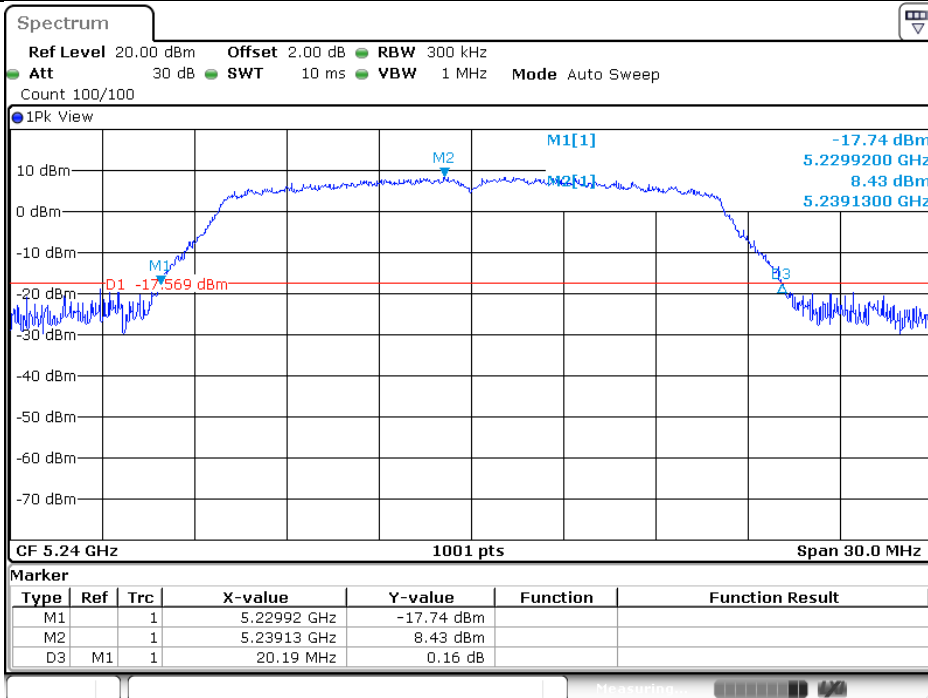
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11A Ant1 5200



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11A Ant1 5240



Date: 4 JAN 2021 19:16:50



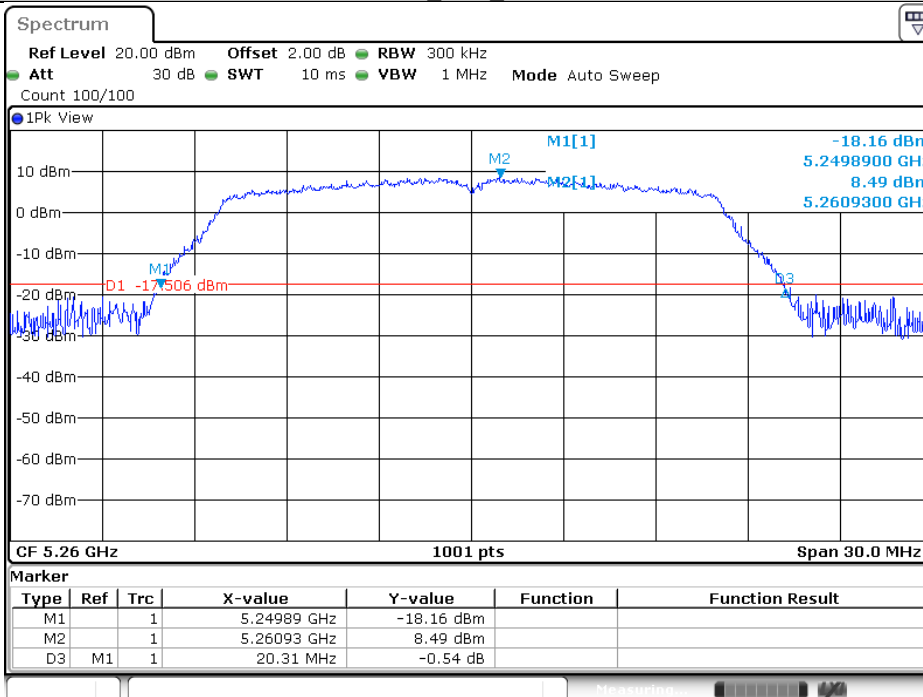
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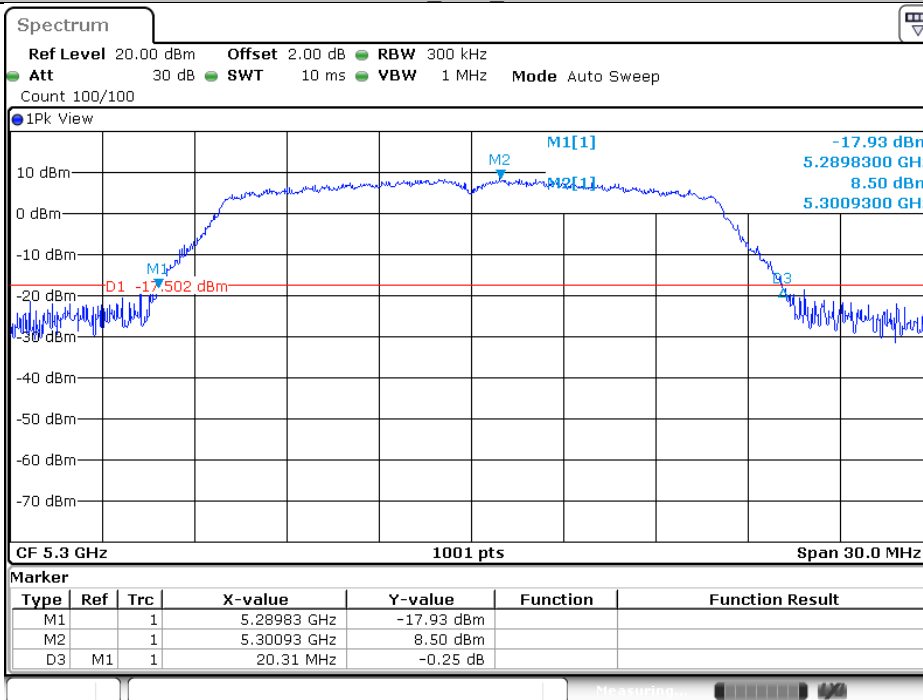
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11A Ant1 5260



Date: 4 JAN 2021 19:18:21

11A Ant1 5300



Date: 4 JAN 2021 19:20:00



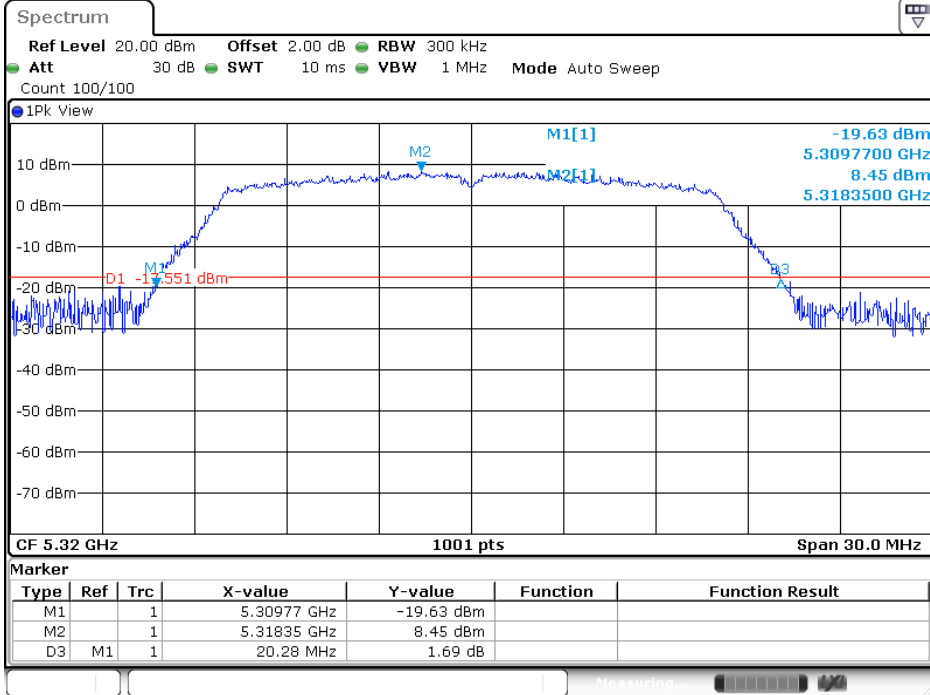
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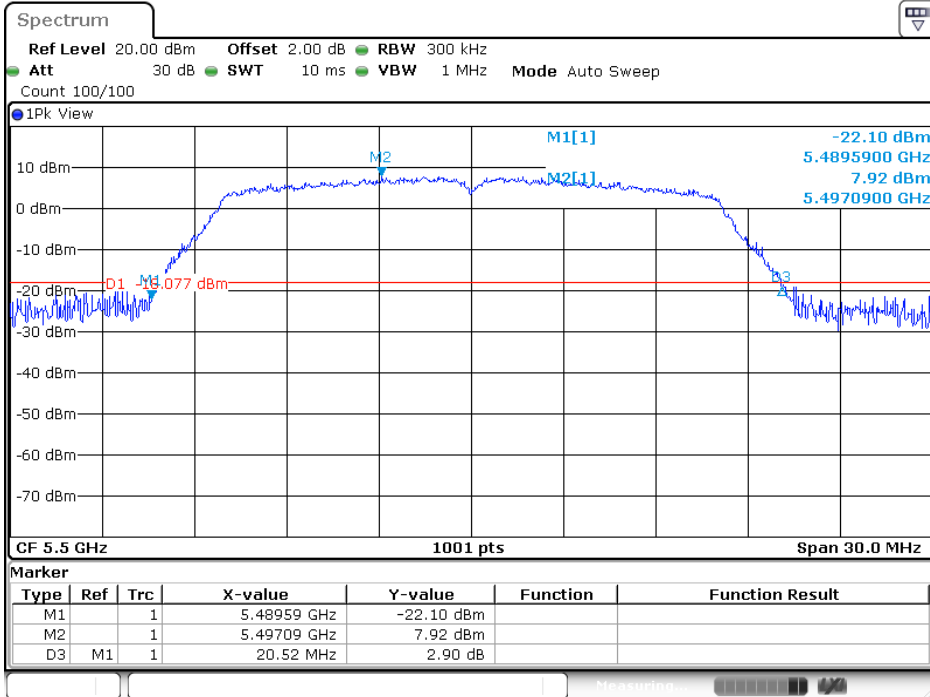
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11A Ant1 5320



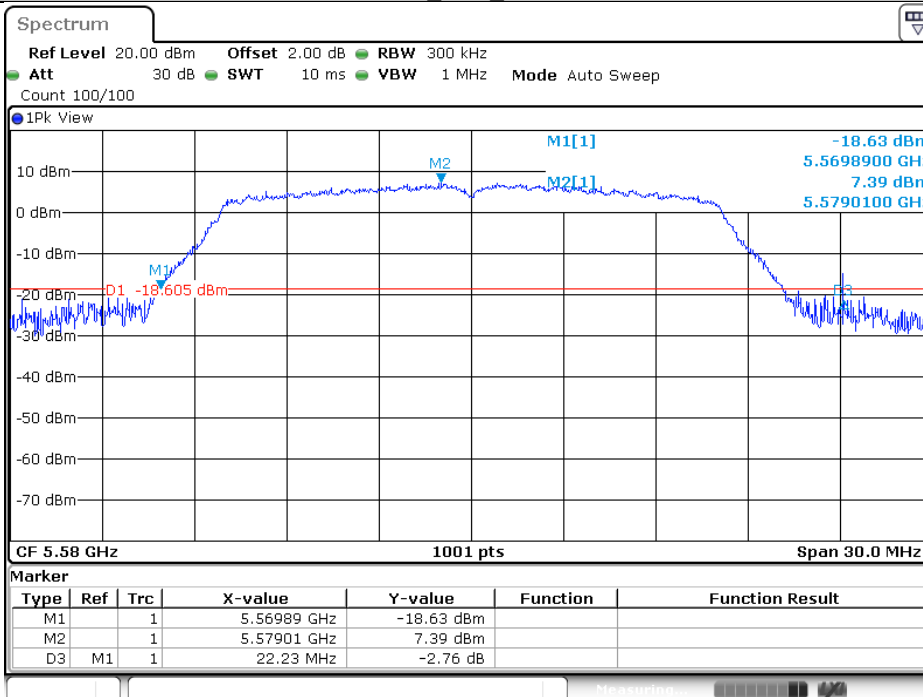
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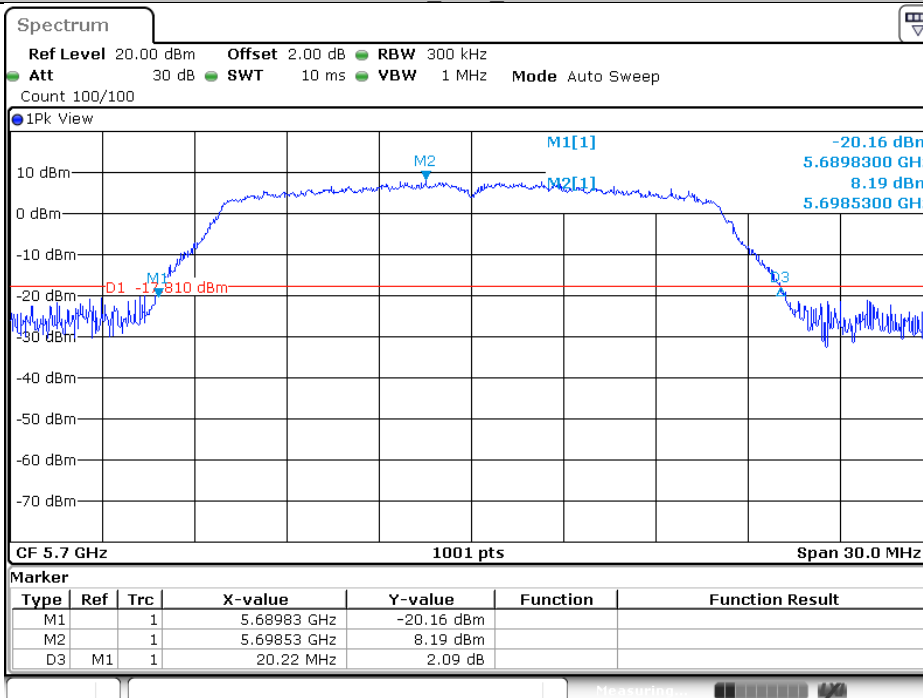
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11A Ant1 5580



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11A Ant1 5700



Date: 4 JAN 2021 19:27:07



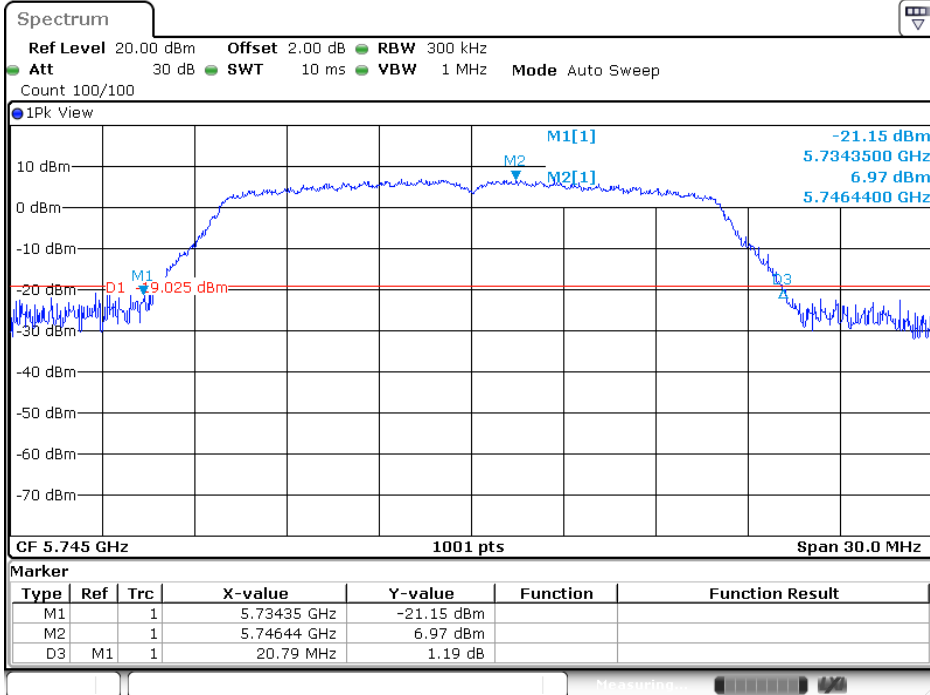
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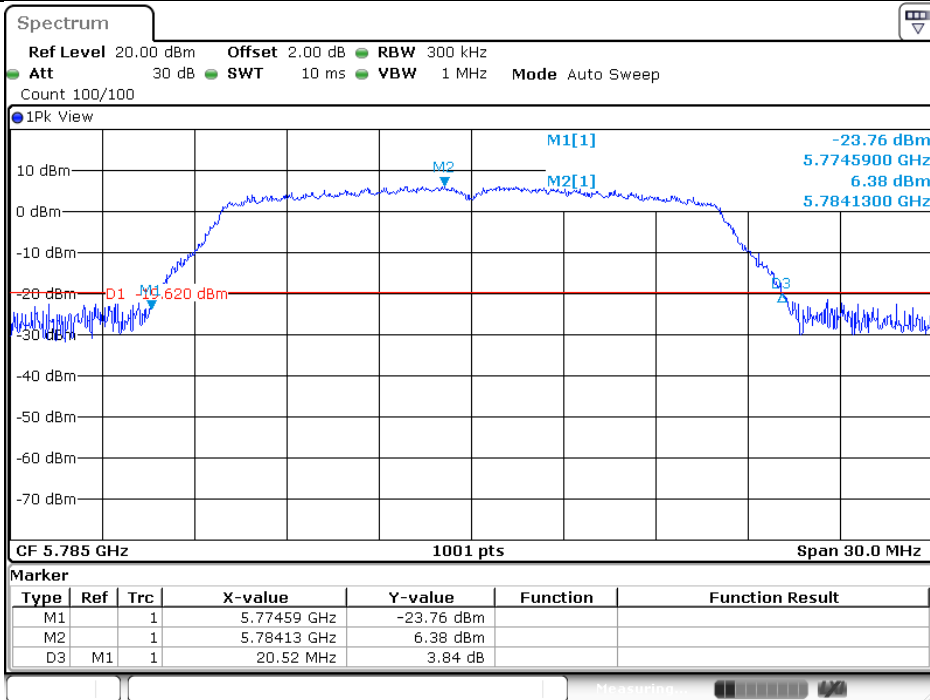
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11A Ant1 5745



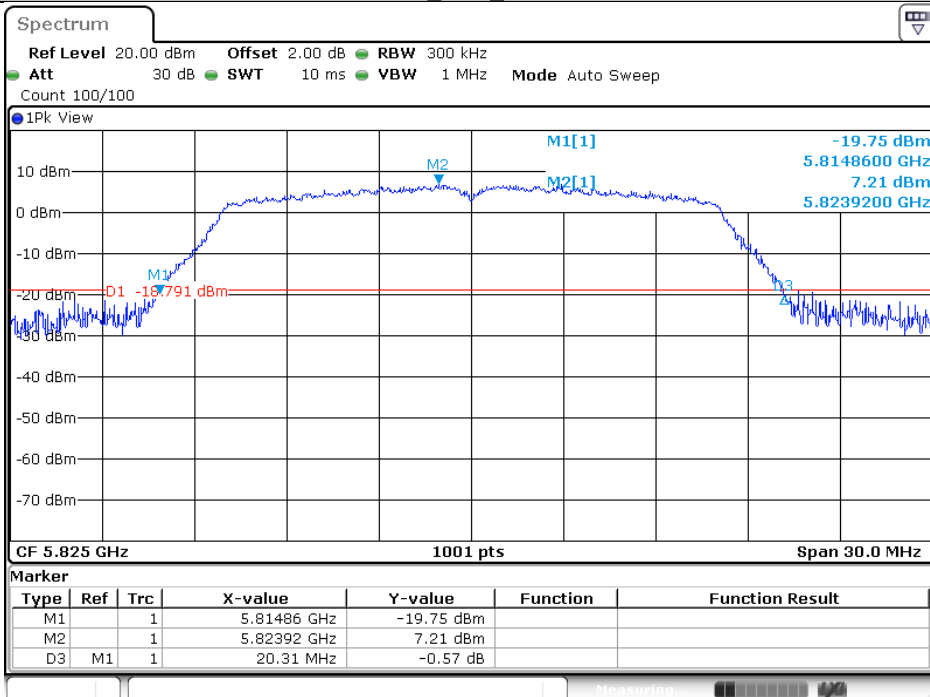
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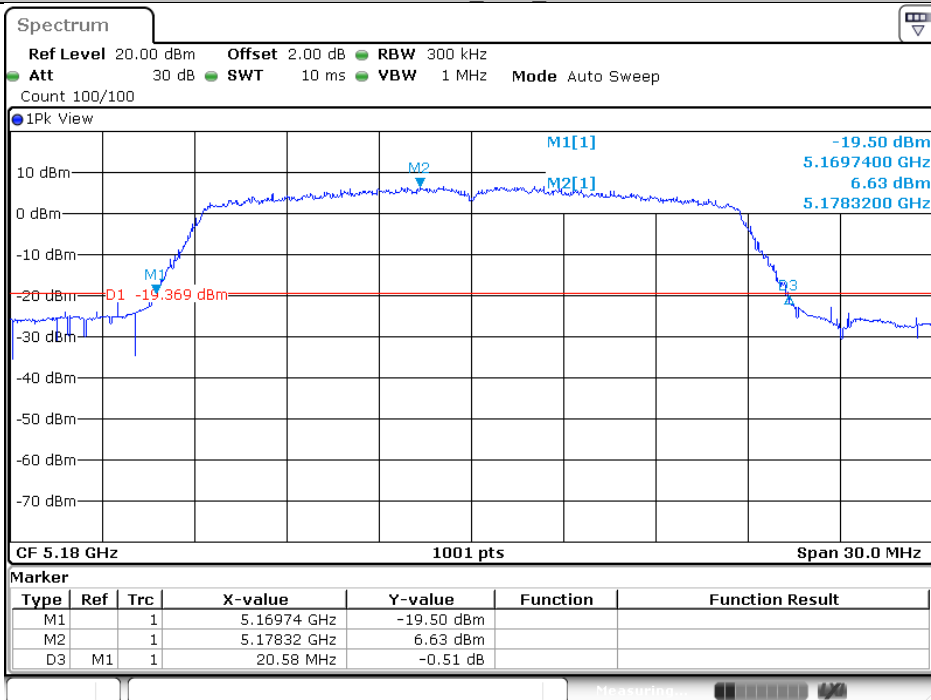
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11A Ant1 5825



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11N20SISO Ant1 5180



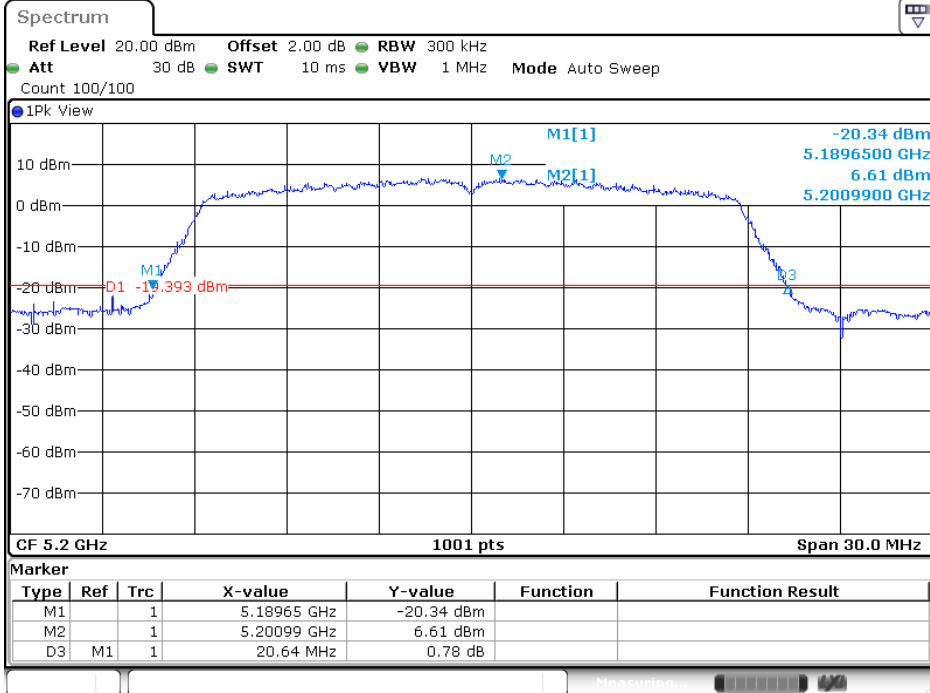
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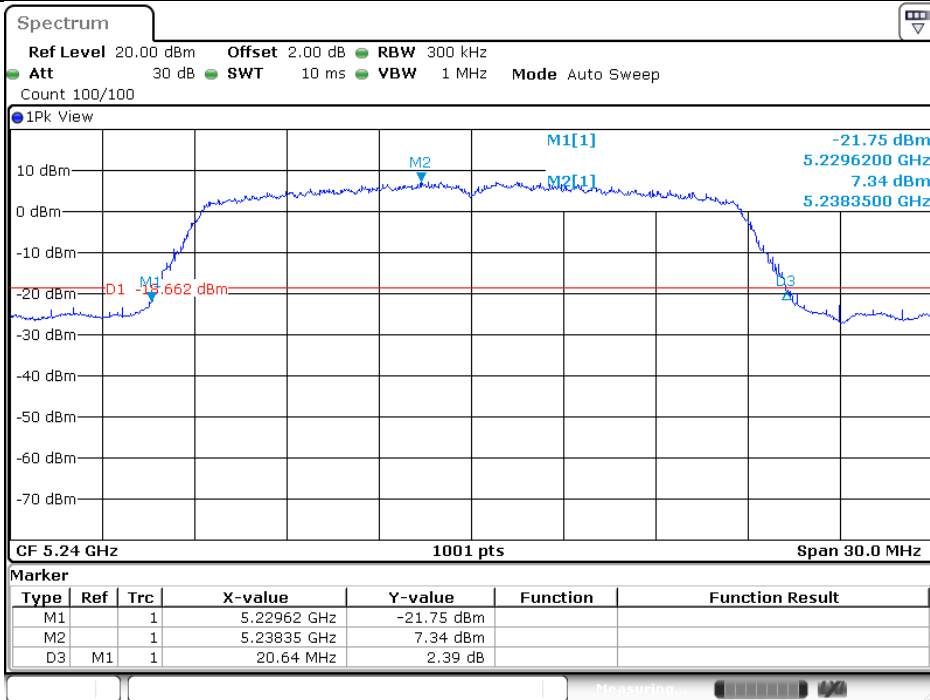
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11N20SISO Ant1 5200



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11N20SISO Ant1 5240



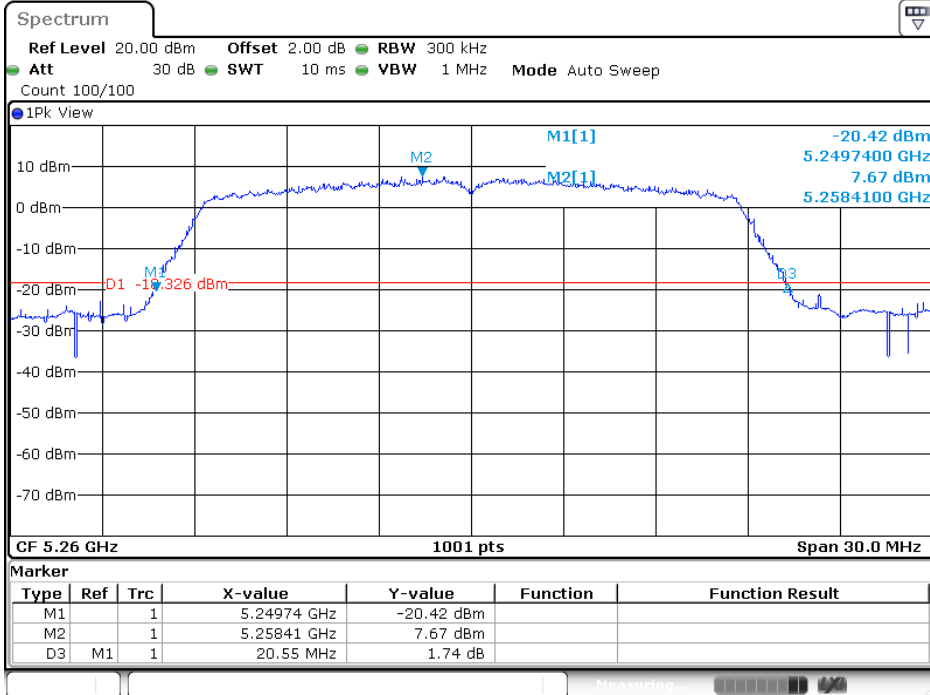
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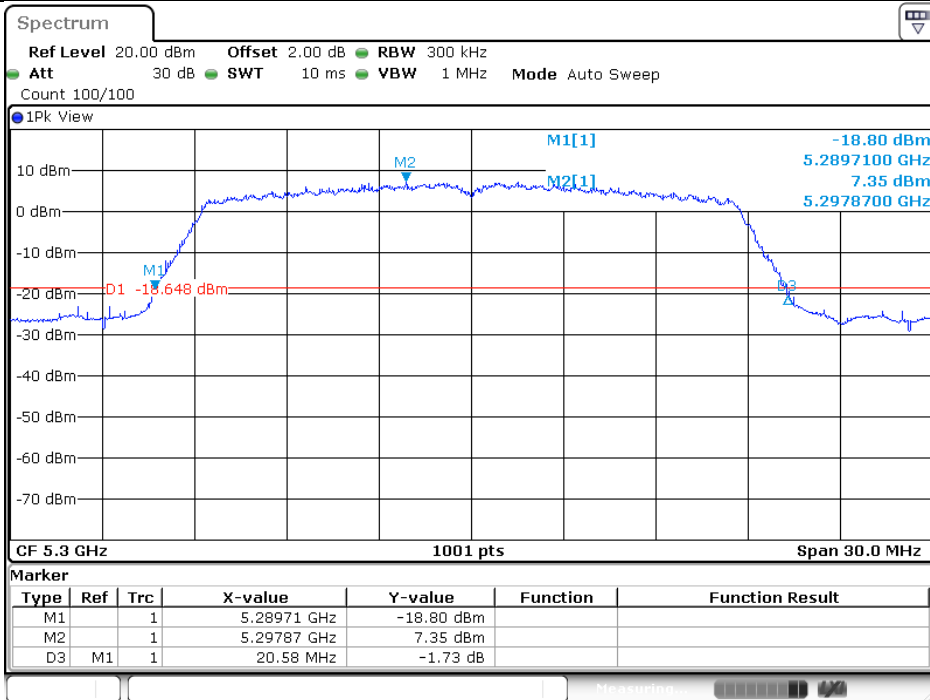
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11N20SISO Ant1 5260



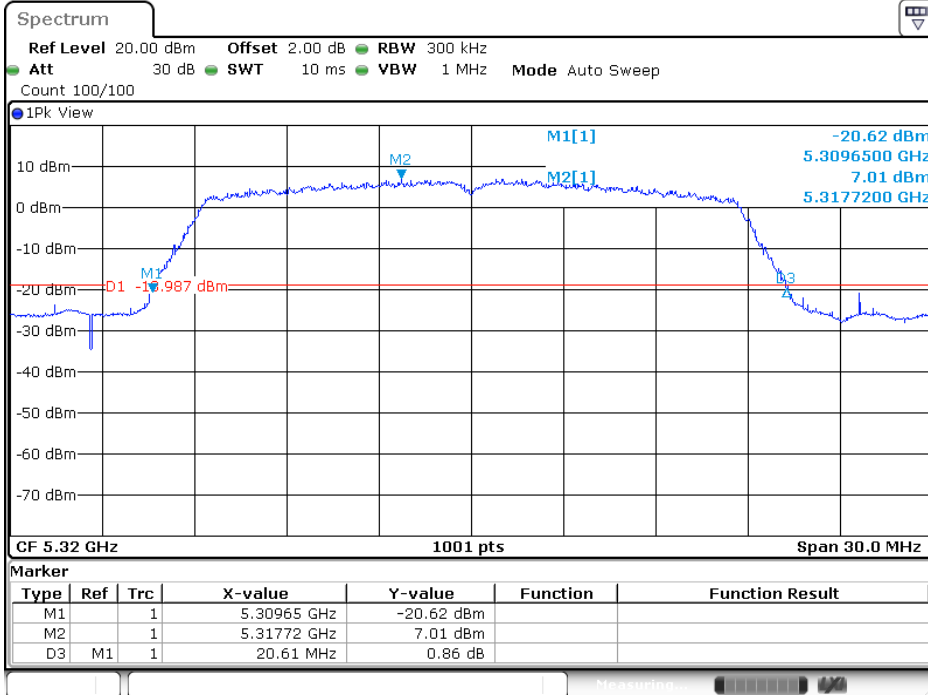
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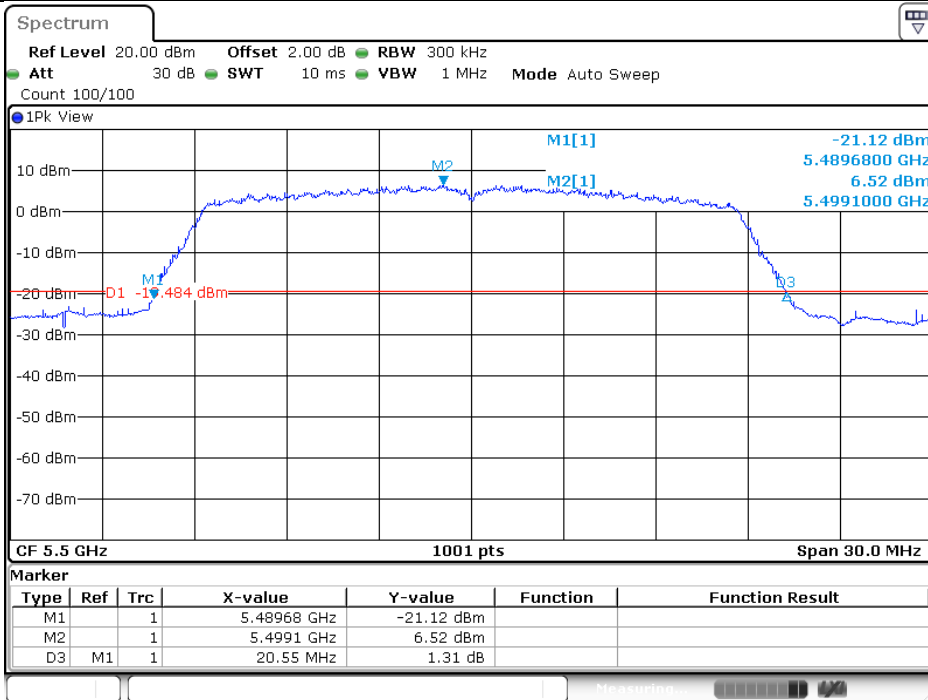
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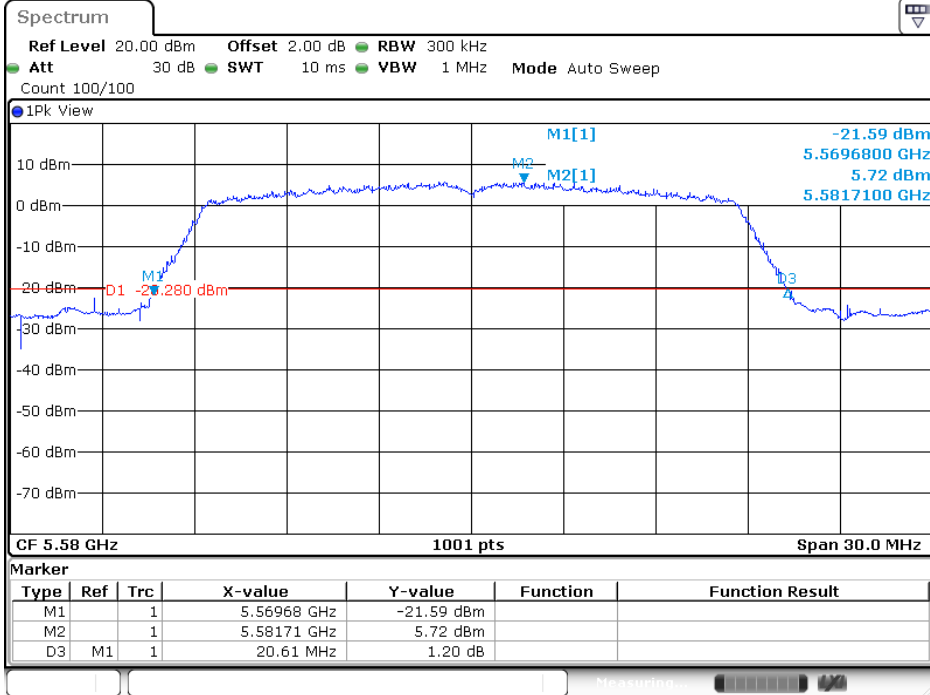
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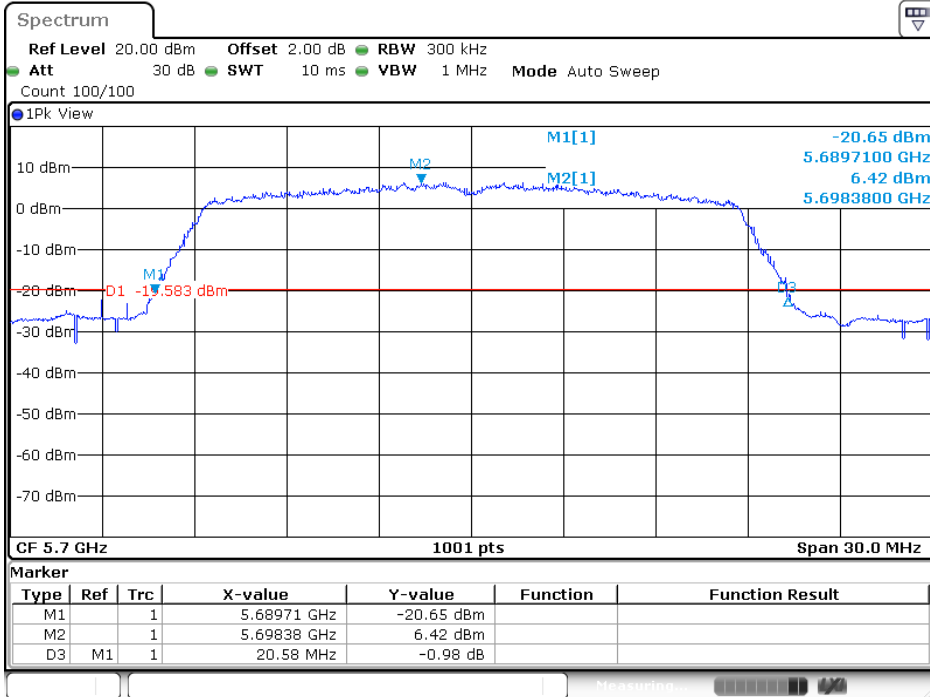
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11N20SISO Ant1 5700



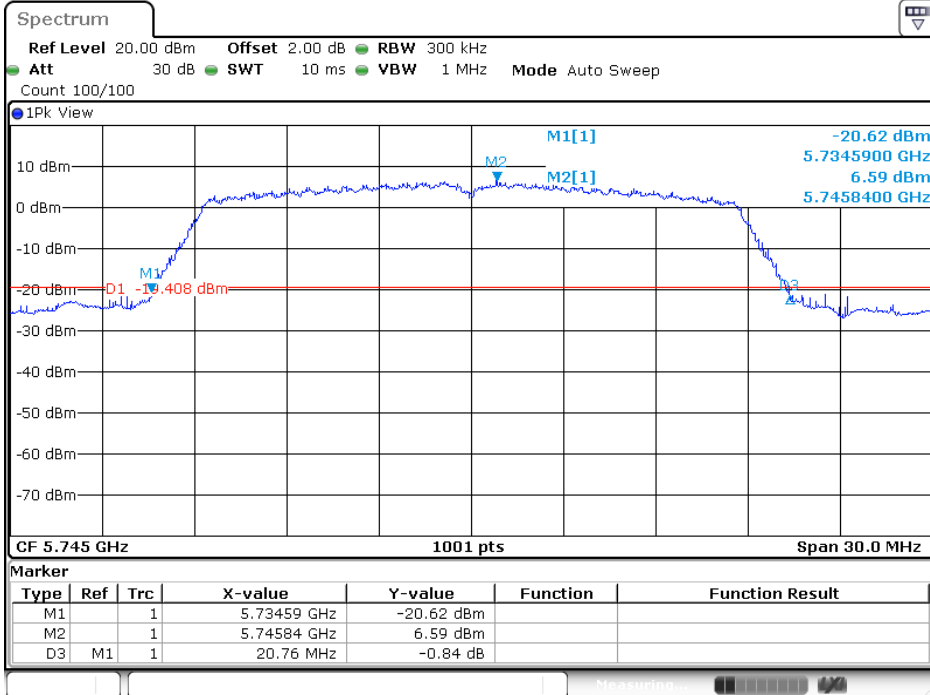
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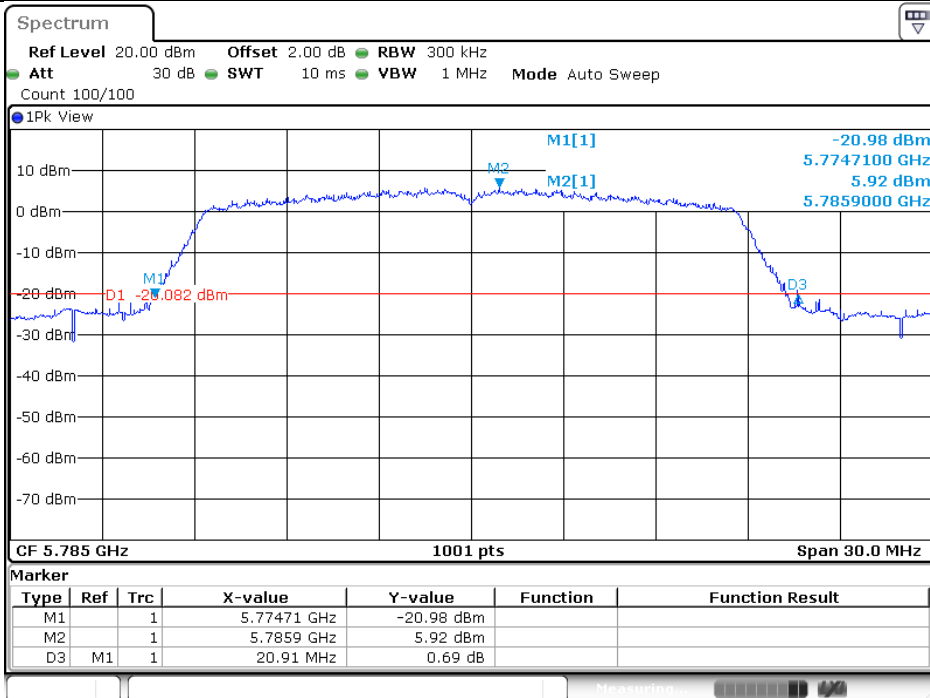
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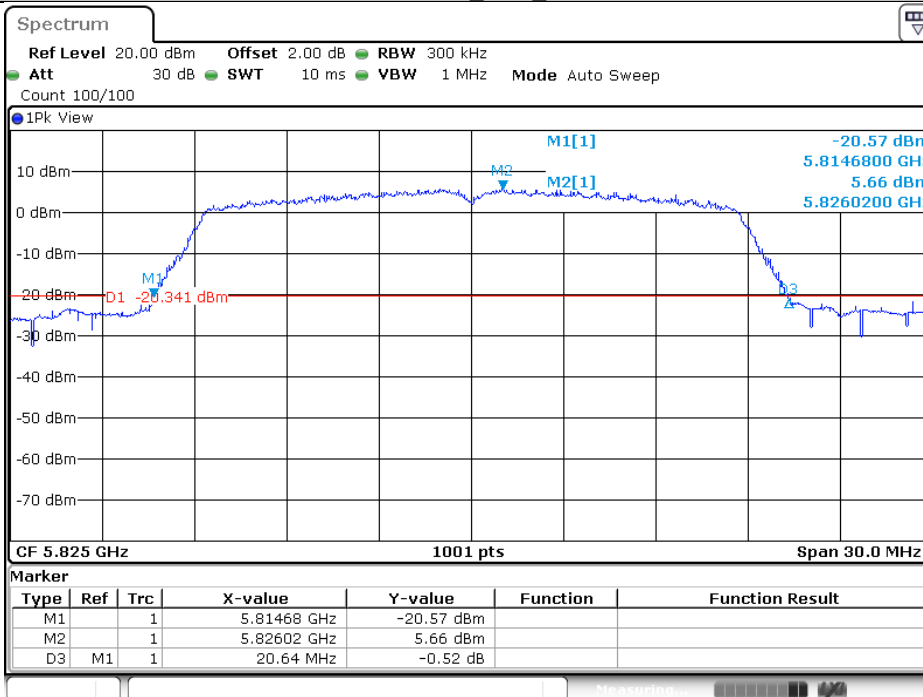
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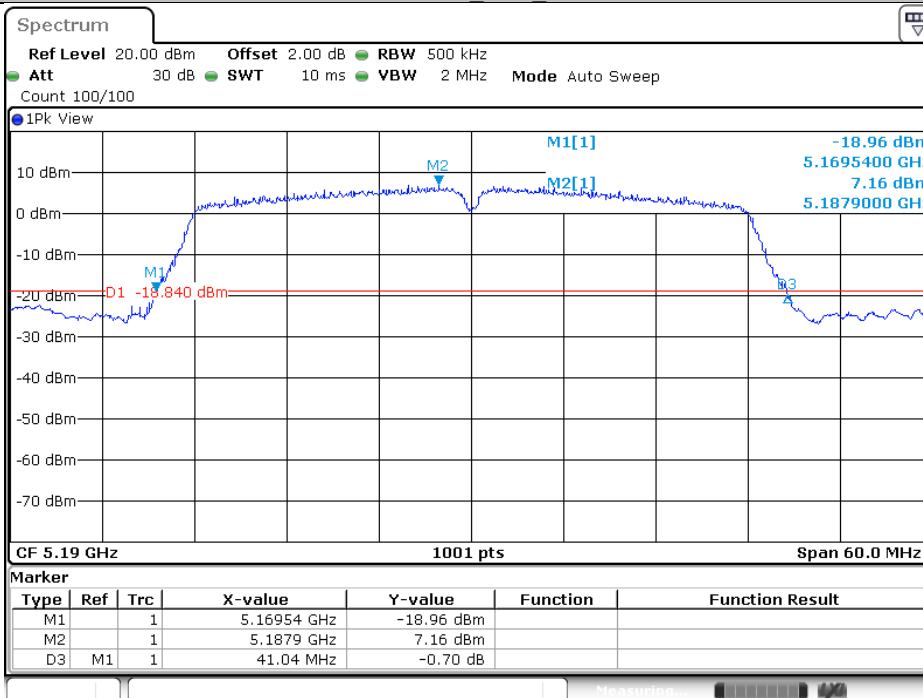
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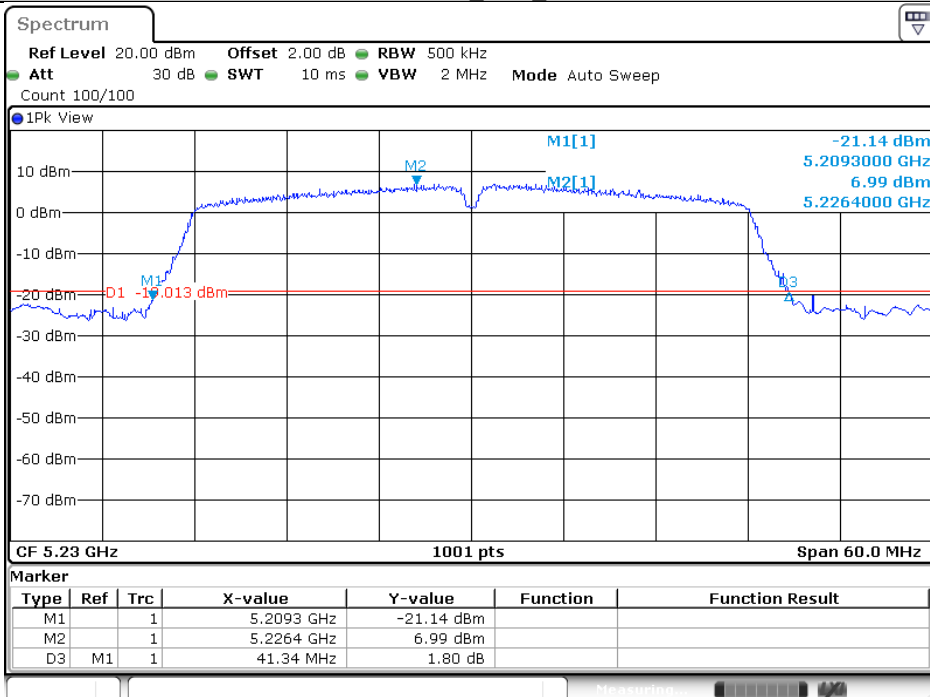


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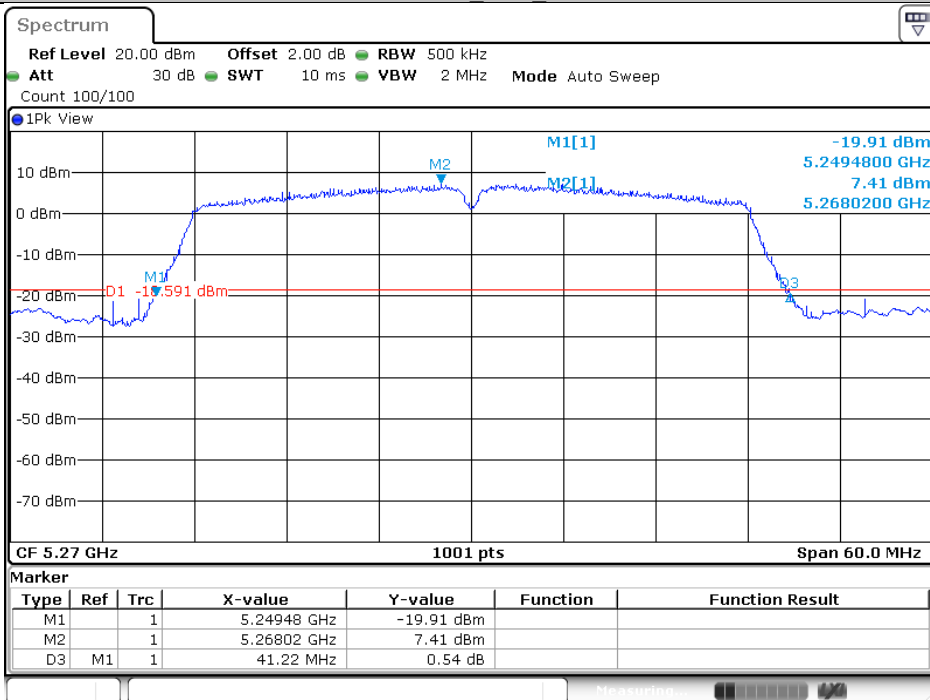
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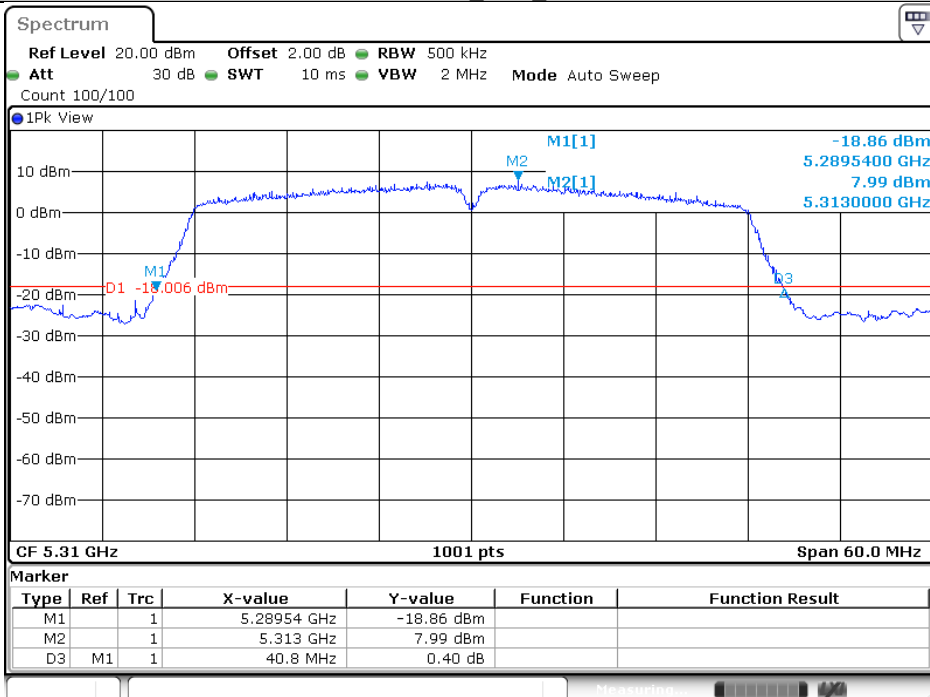
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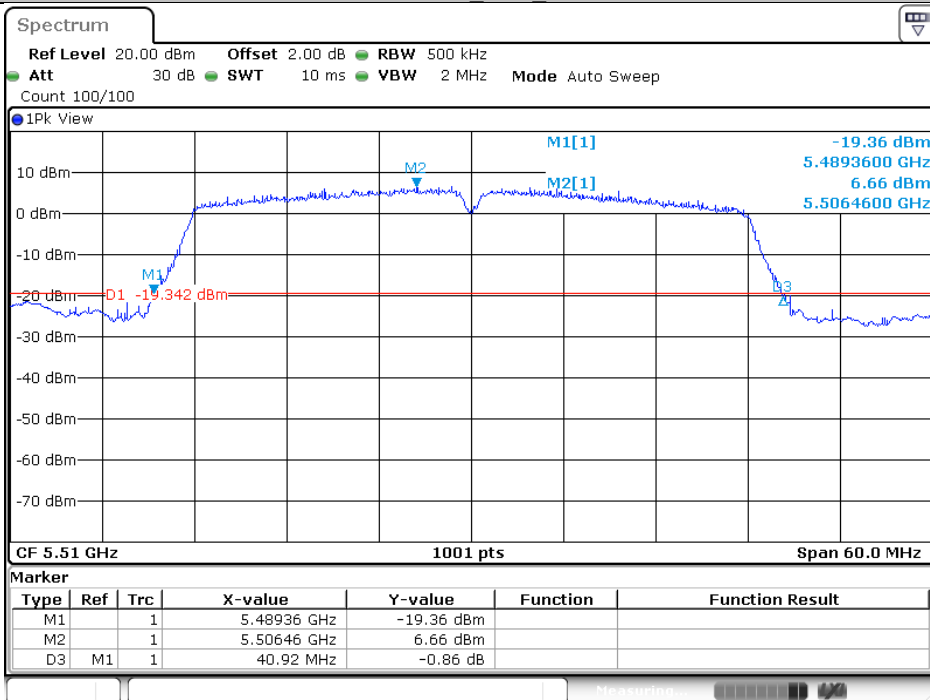
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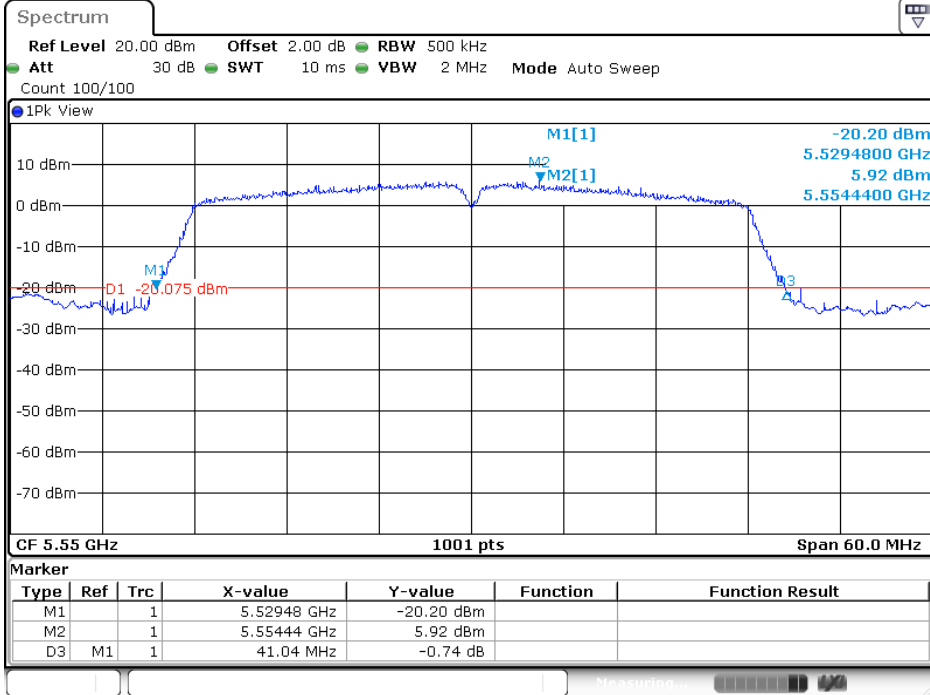
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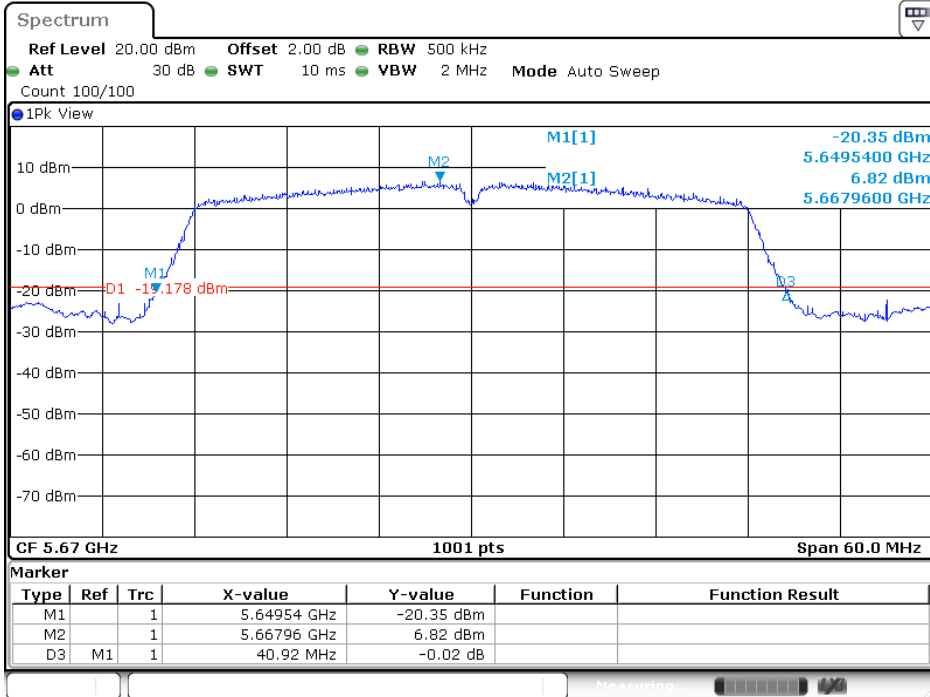
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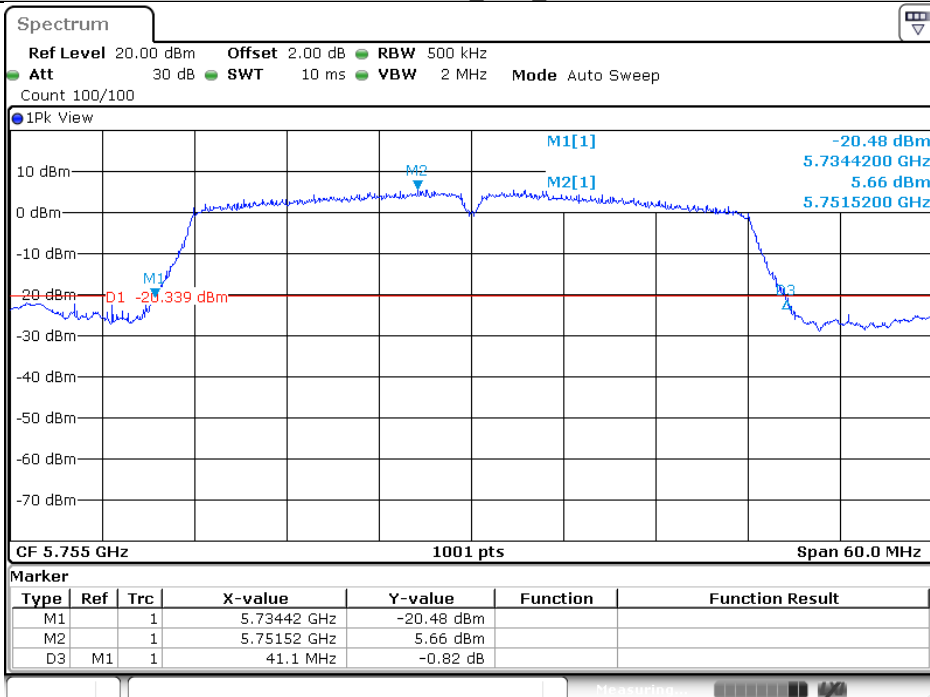


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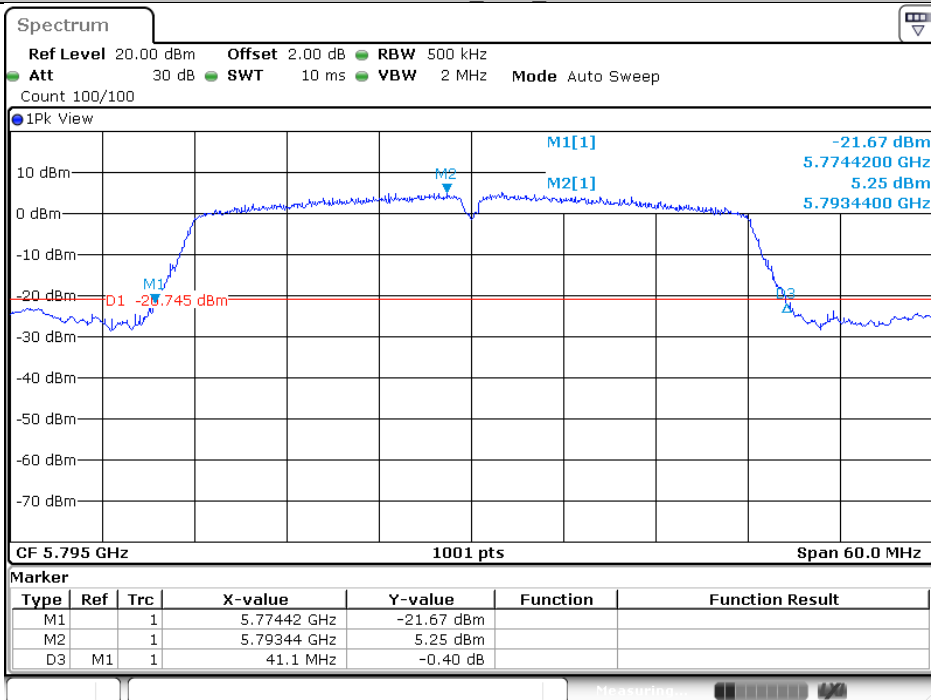
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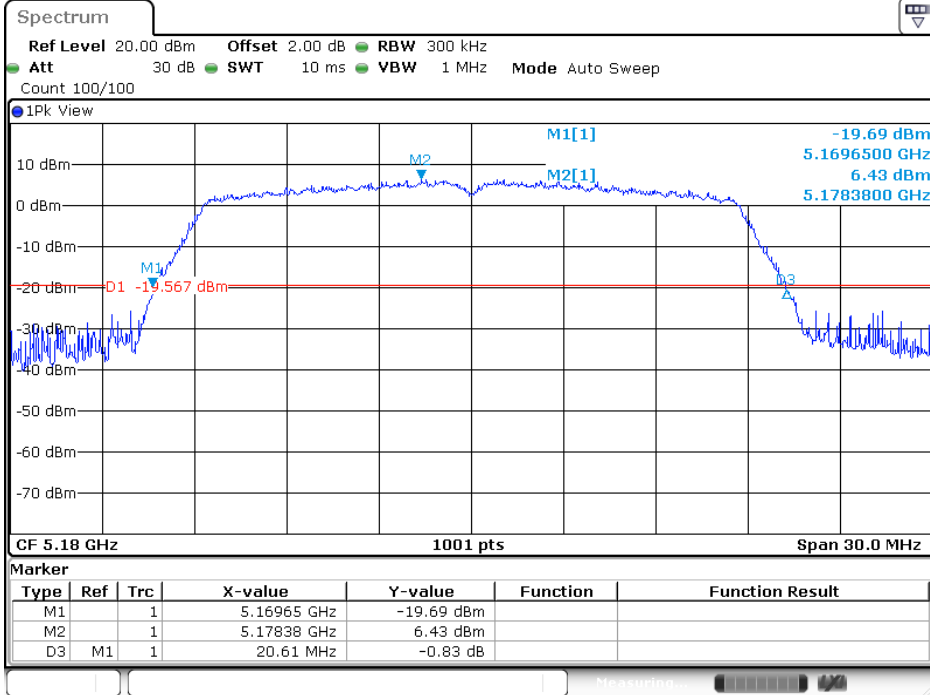
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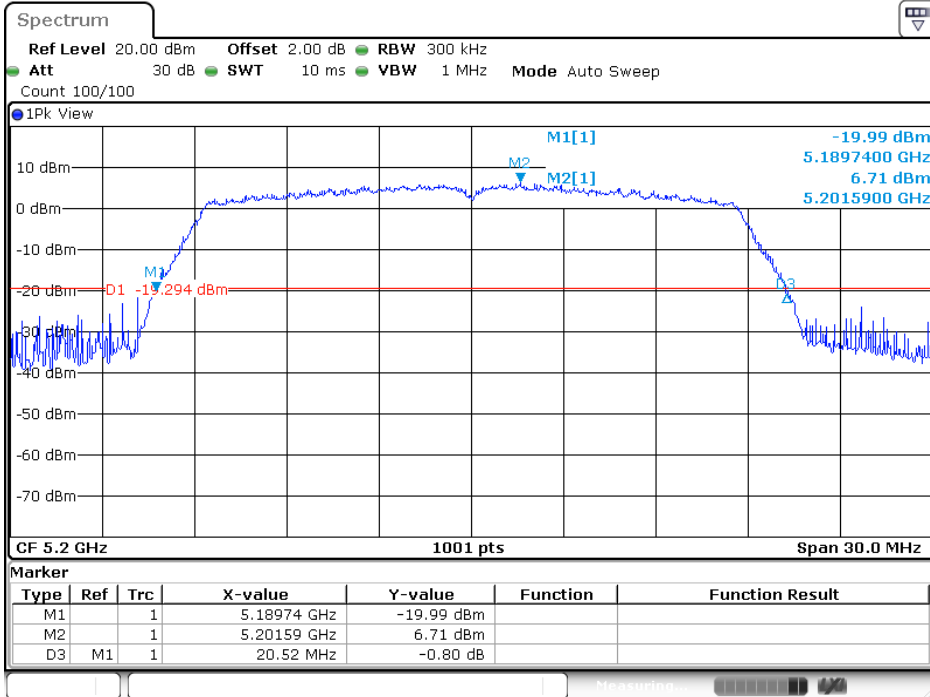
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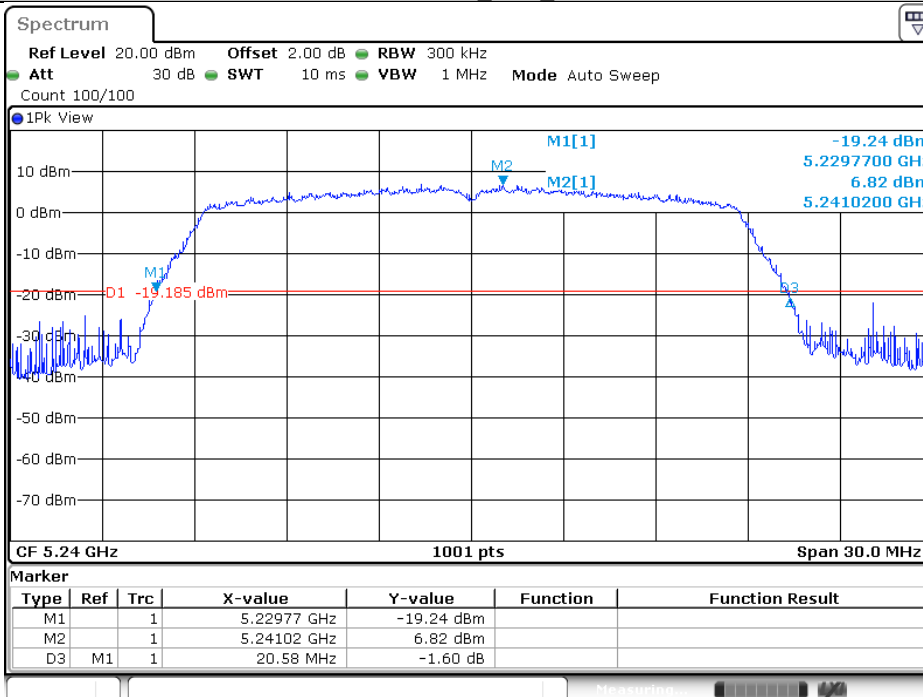
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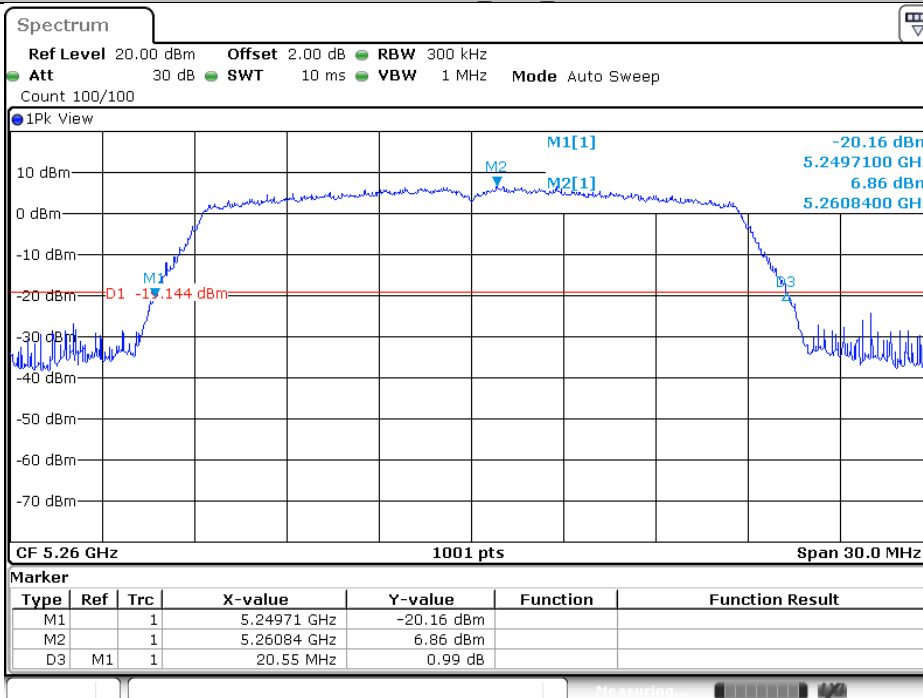
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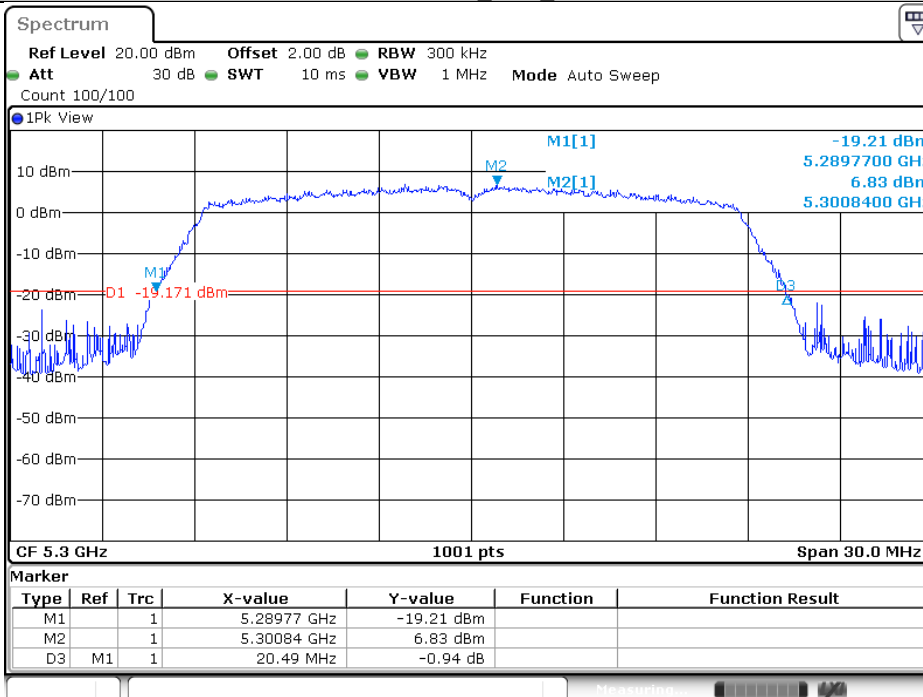
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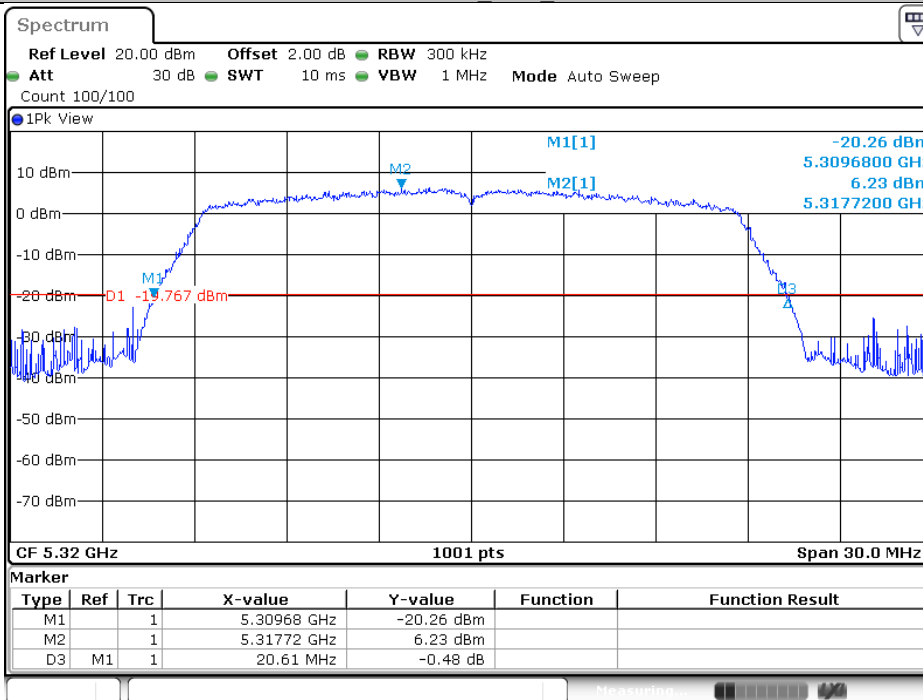
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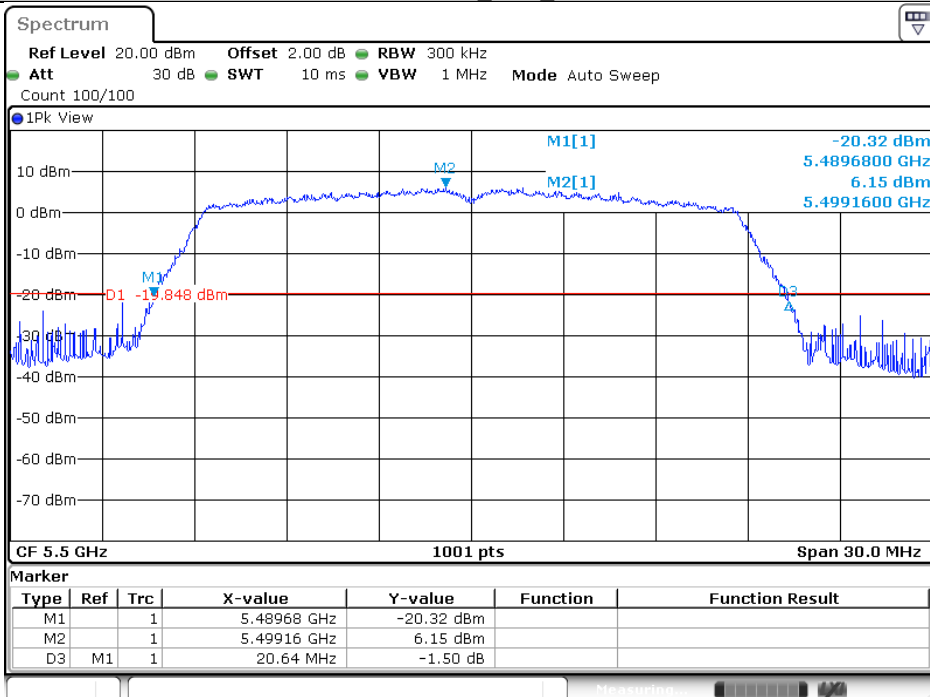
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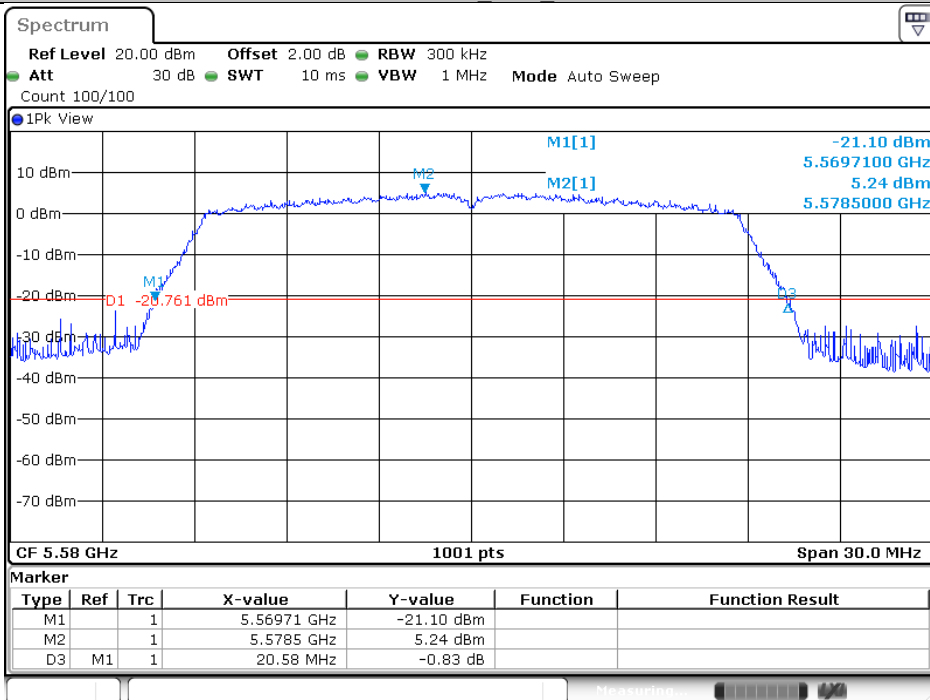
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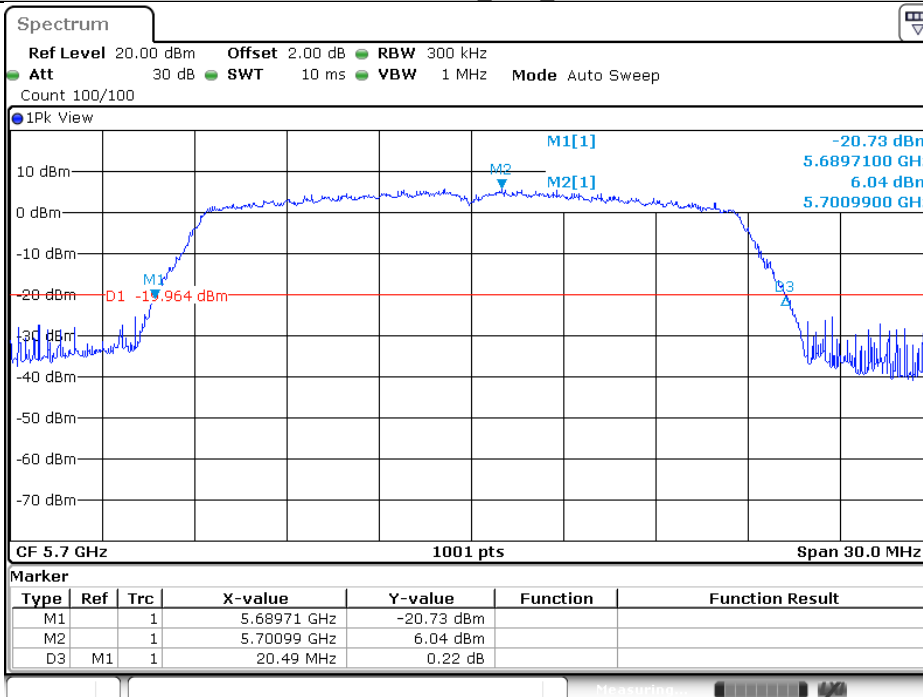
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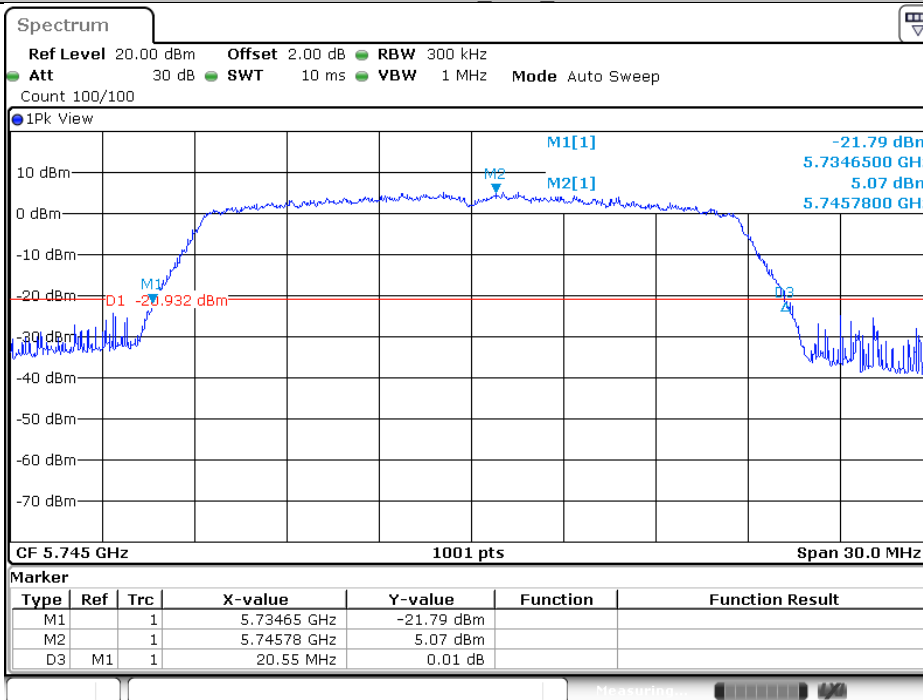
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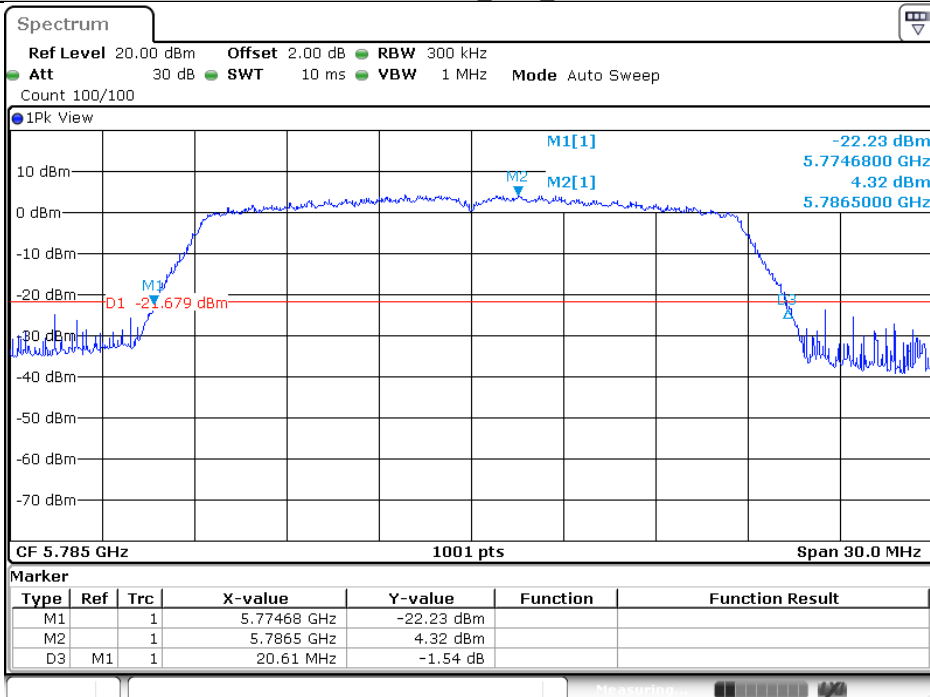
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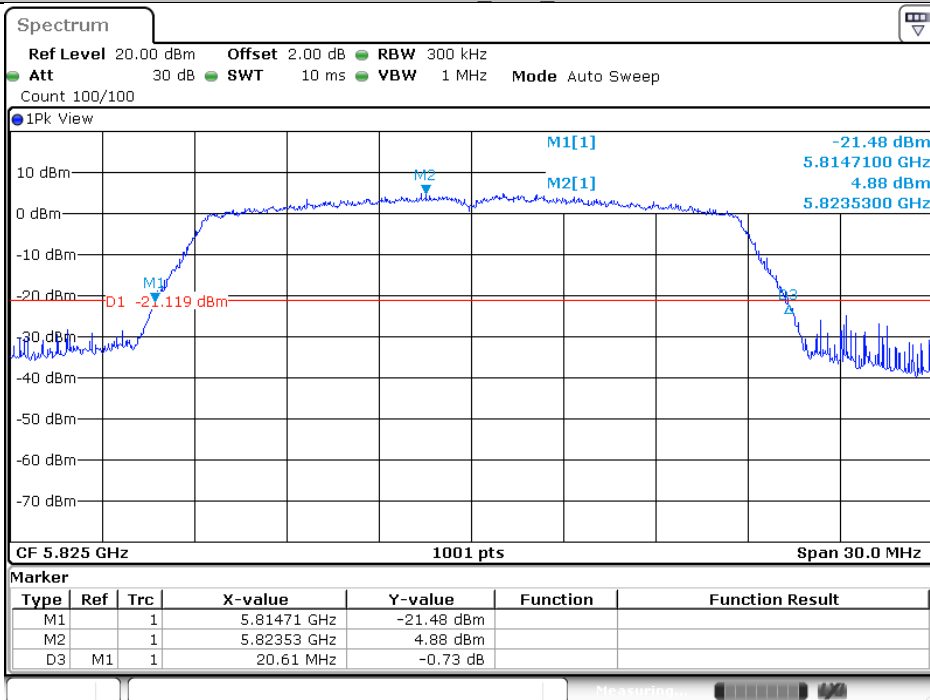
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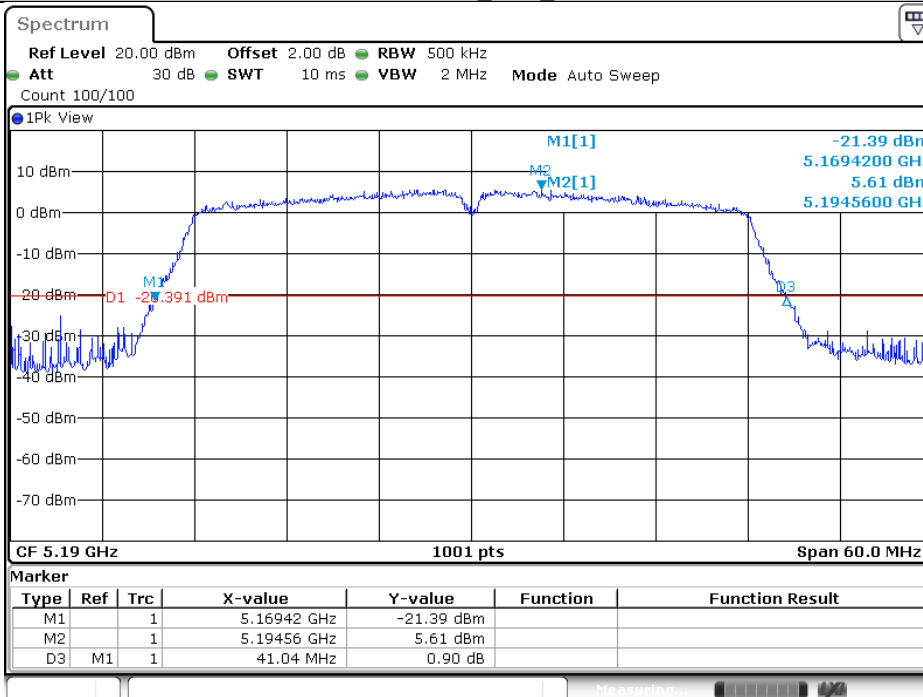
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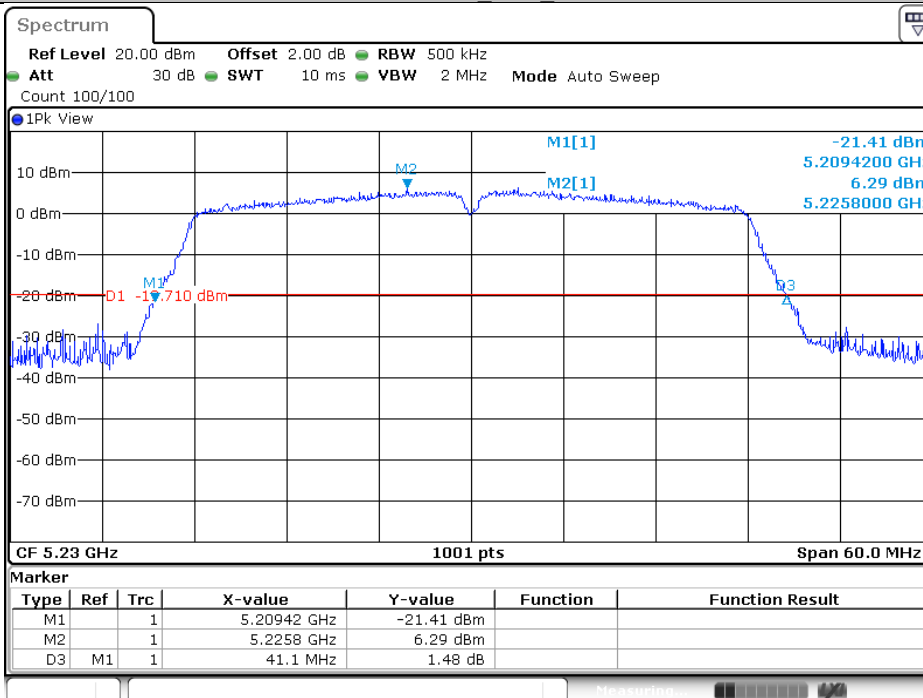
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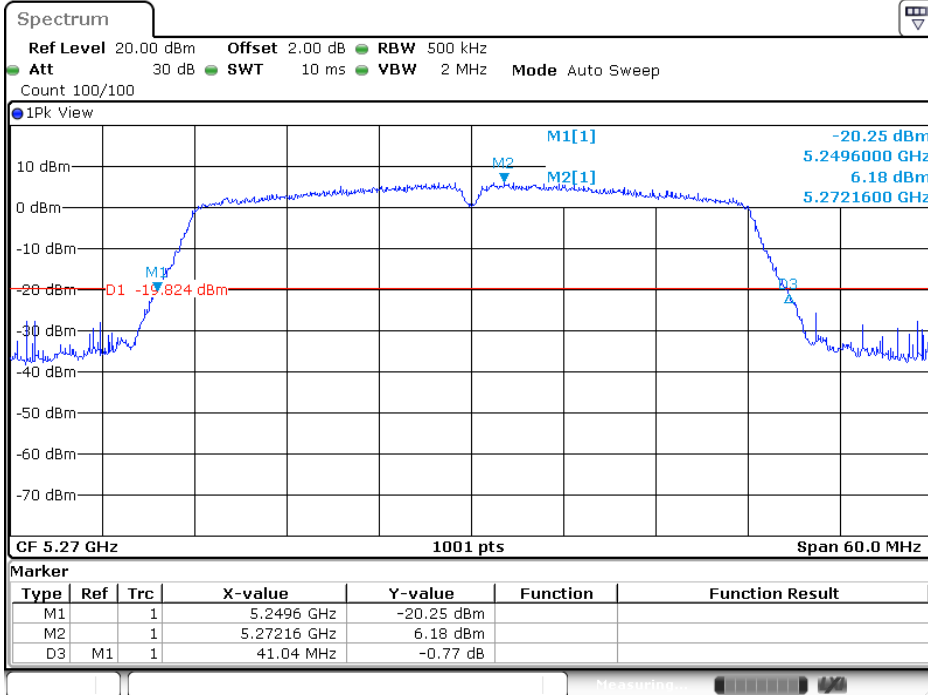
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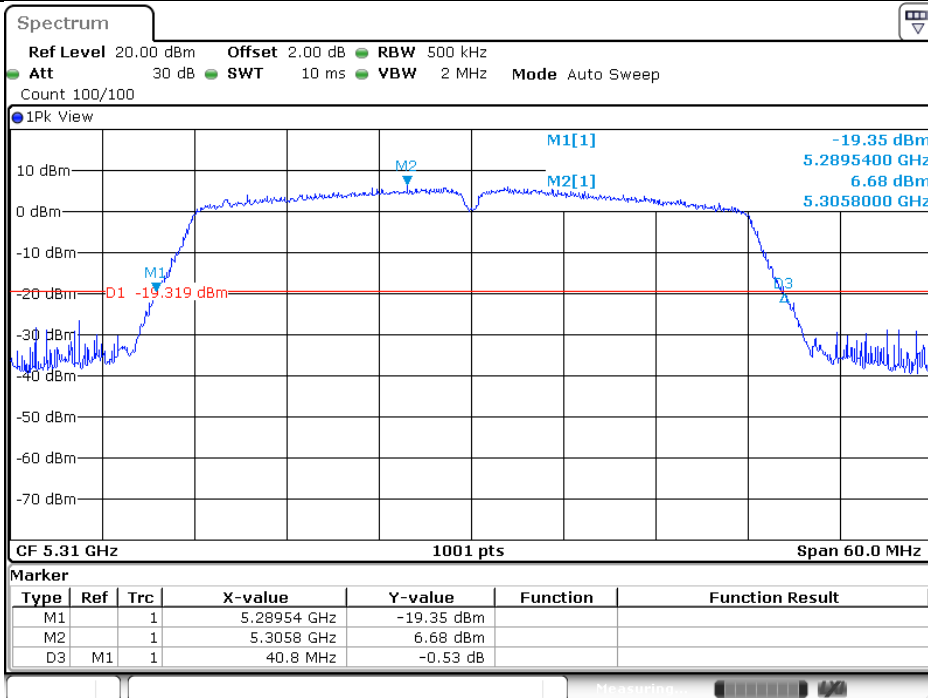
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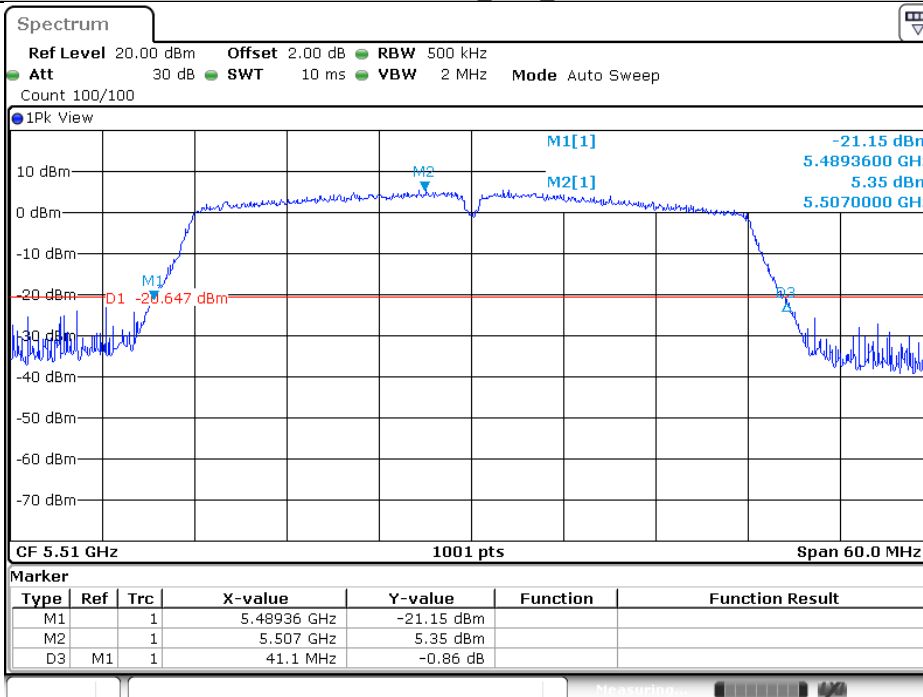
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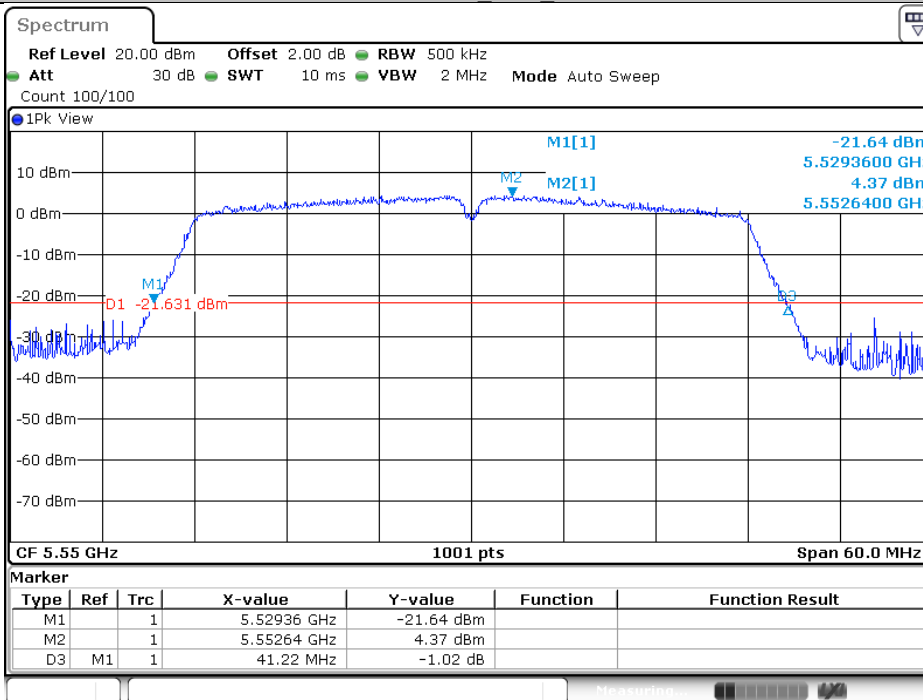
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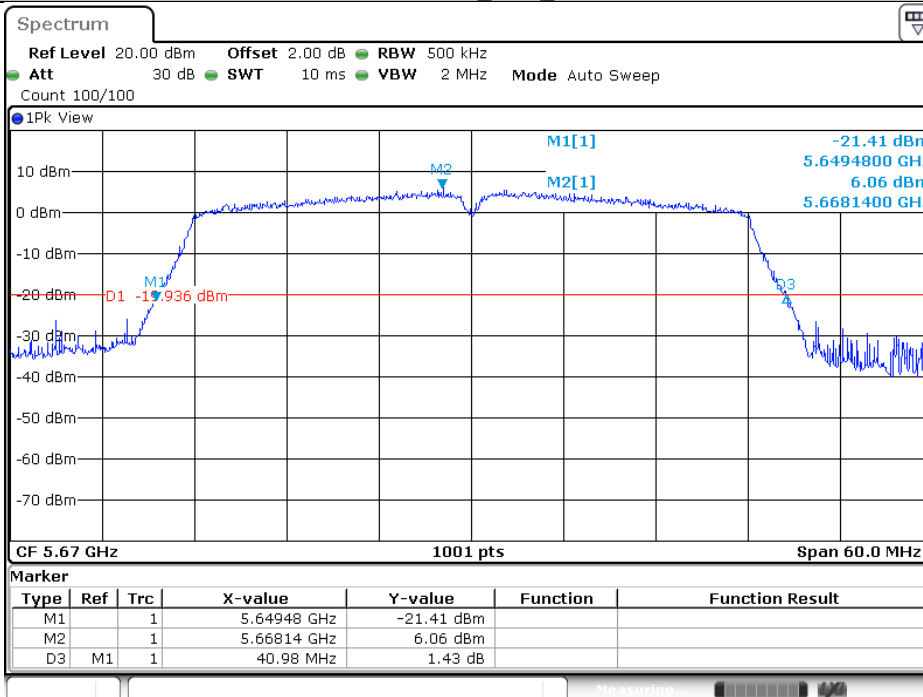
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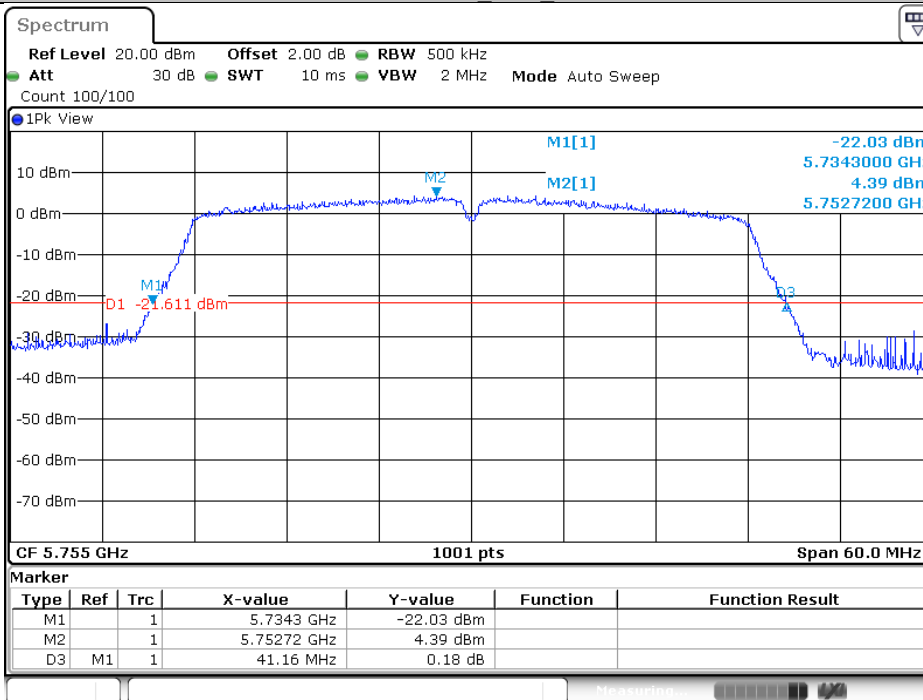
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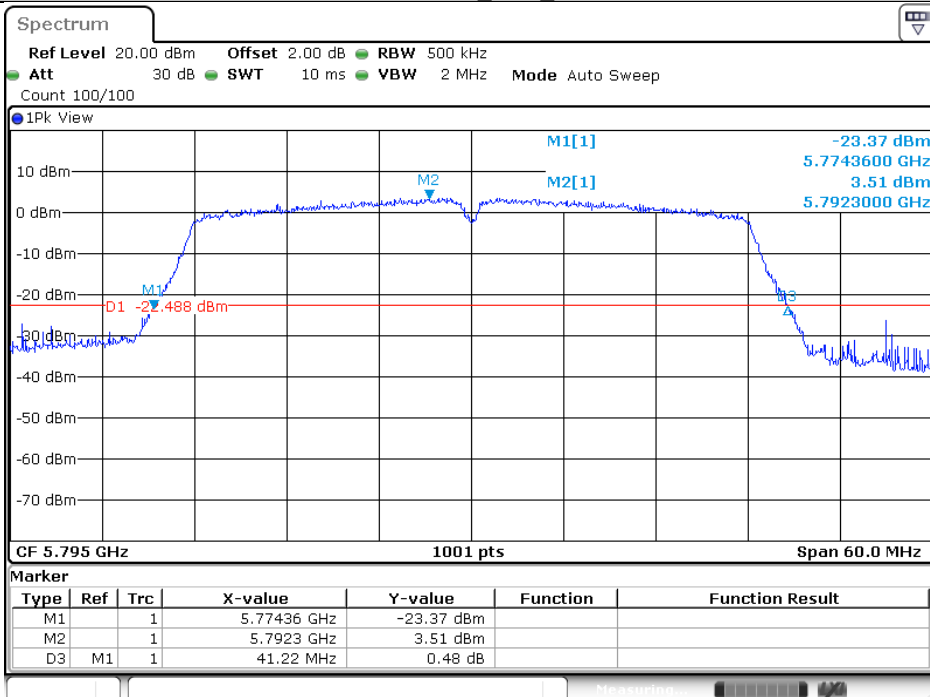
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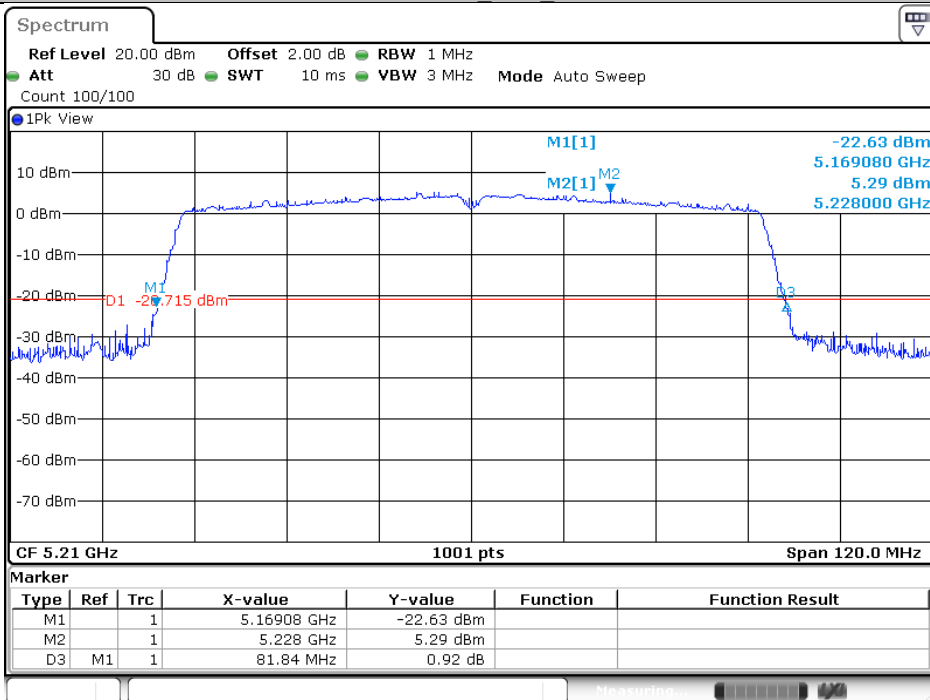
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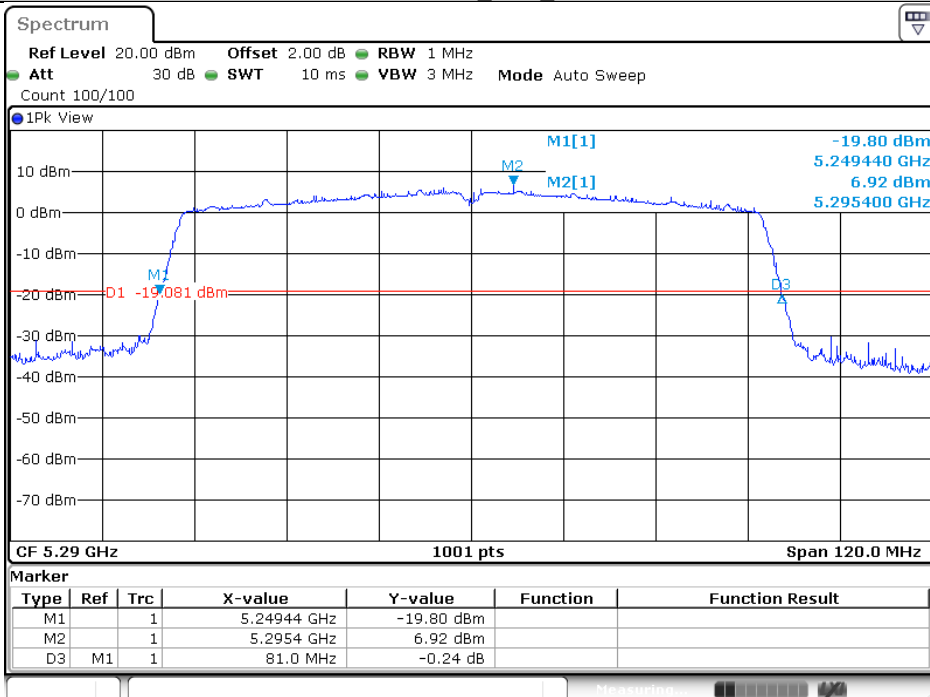
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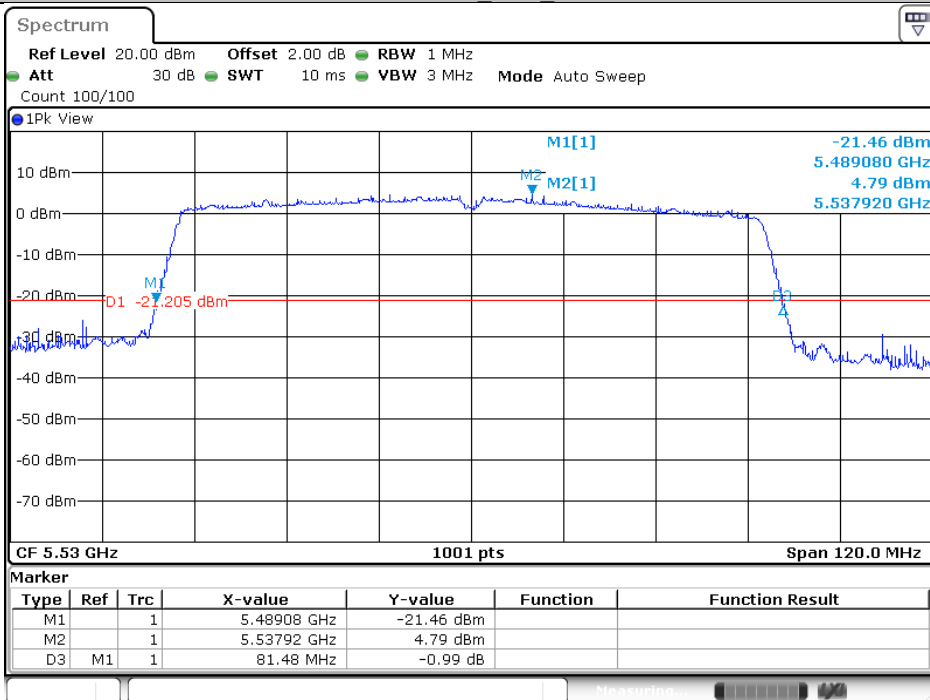
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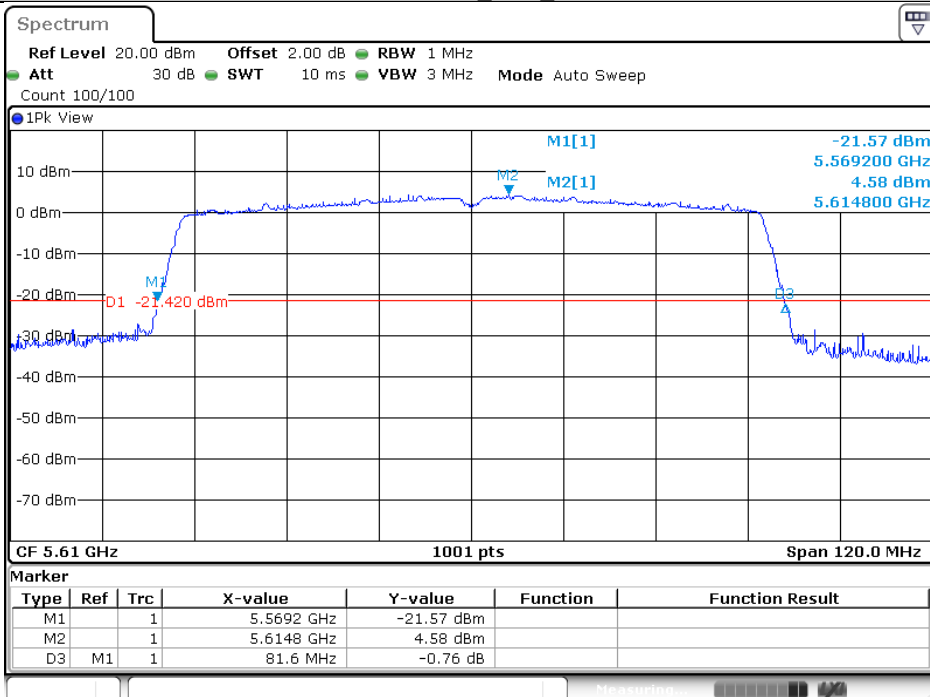
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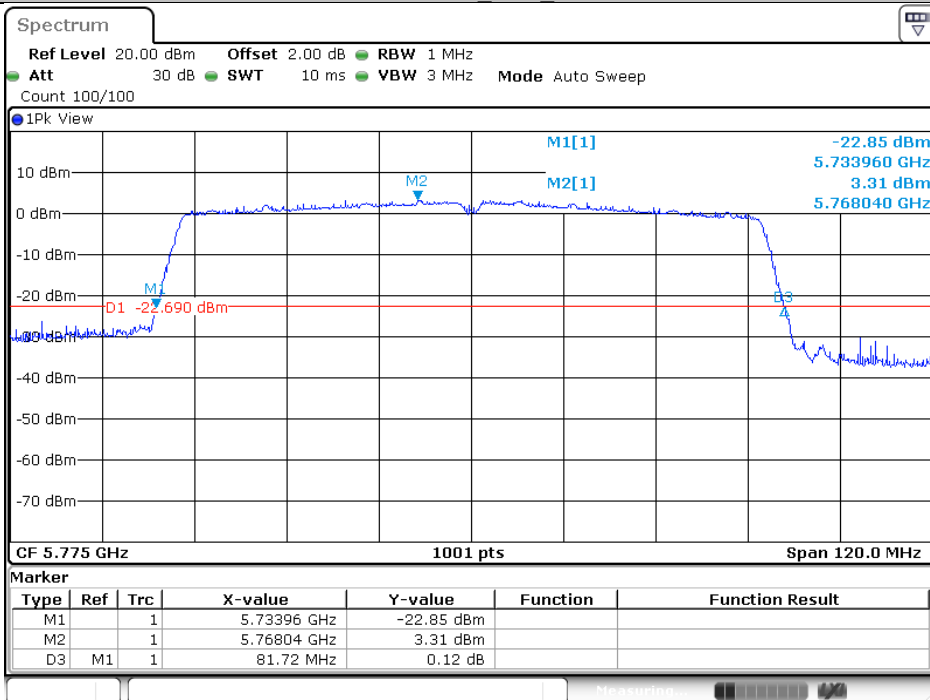
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Occupied channel bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.753	5171.608	5188.362	---	PASS
		5200	16.753	5191.608	5208.362	---	PASS
		5240	16.753	5231.608	5248.362	---	PASS
		5260	16.753	5251.638	5268.392	---	PASS
		5300	16.753	5291.608	5308.362	---	PASS
		5320	16.753	5311.578	5328.332	---	PASS
		5500	16.723	5491.578	5508.302	---	PASS
		5580	16.813	5571.578	5588.392	---	PASS
		5700	16.723	5691.608	5708.332	---	PASS
		5745	16.783	5736.548	5753.332	---	PASS
		5785	16.753	5776.608	5793.362	---	PASS
		5825	16.813	5816.608	5833.422	---	PASS
11N20SISO	Ant1	5180	17.772	5171.099	5188.871	---	PASS
		5200	17.712	5191.129	5208.841	---	PASS
		5240	17.742	5231.129	5248.871	---	PASS
		5260	17.742	5251.129	5268.871	---	PASS
		5300	17.742	5291.099	5308.841	---	PASS
		5320	17.742	5311.099	5328.841	---	PASS
		5500	17.742	5491.069	5508.811	---	PASS
		5580	17.772	5571.099	5588.871	---	PASS
		5700	17.712	5691.129	5708.841	---	PASS
		5745	17.772	5736.069	5753.841	---	PASS
		5785	17.772	5776.099	5793.871	---	PASS
		5825	17.772	5816.129	5833.901	---	PASS
11N40SISO	Ant1	5190	36.144	5171.898	5208.042	---	PASS
		5230	36.144	5211.958	5248.102	---	PASS
		5270	36.144	5251.958	5288.102	---	PASS
		5310	36.204	5291.838	5328.042	---	PASS
		5510	36.204	5491.778	5527.982	---	PASS



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		5550	36.204	5531.838	5568.042	---	PASS
		5670	36.144	5651.898	5688.042	---	PASS
		5755	36.204	5736.838	5773.042	---	PASS
		5795	36.204	5776.898	5813.102	---	PASS
11AC20SISO	Ant1	5180	17.712	5171.129	5188.841	---	PASS
		5200	17.712	5191.129	5208.841	---	PASS
		5240	17.712	5231.159	5248.871	---	PASS
		5260	17.682	5251.159	5268.841	---	PASS
		5300	17.682	5291.129	5308.811	---	PASS
		5320	17.712	5311.099	5328.811	---	PASS
		5500	17.712	5491.099	5508.811	---	PASS
		5580	17.712	5571.129	5588.841	---	PASS
		5700	17.682	5691.129	5708.811	---	PASS
		5745	17.712	5736.099	5753.811	---	PASS
		5785	17.712	5776.129	5793.841	---	PASS
		5825	17.742	5816.129	5833.871	---	PASS
11AC40SISO	Ant1	5190	36.144	5171.898	5208.042	---	PASS
		5230	36.084	5211.958	5248.042	---	PASS
		5270	36.144	5251.958	5288.102	---	PASS
		5310	36.084	5291.898	5327.982	---	PASS
		5510	36.144	5491.838	5527.982	---	PASS
		5550	36.204	5531.838	5568.042	---	PASS
		5670	36.144	5651.898	5688.042	---	PASS
		5755	36.144	5736.838	5772.982	---	PASS
		5795	36.144	5776.898	5813.042	---	PASS
11AC80SISO	Ant1	5210	75.285	5172.358	5247.642	---	PASS
		5290	75.045	5252.478	5327.522	---	PASS
		5530	75.285	5492.118	5567.403	---	PASS
		5610	75.165	5572.478	5647.642	---	PASS
		5775	75.405	5737.238	5812.642	---	PASS



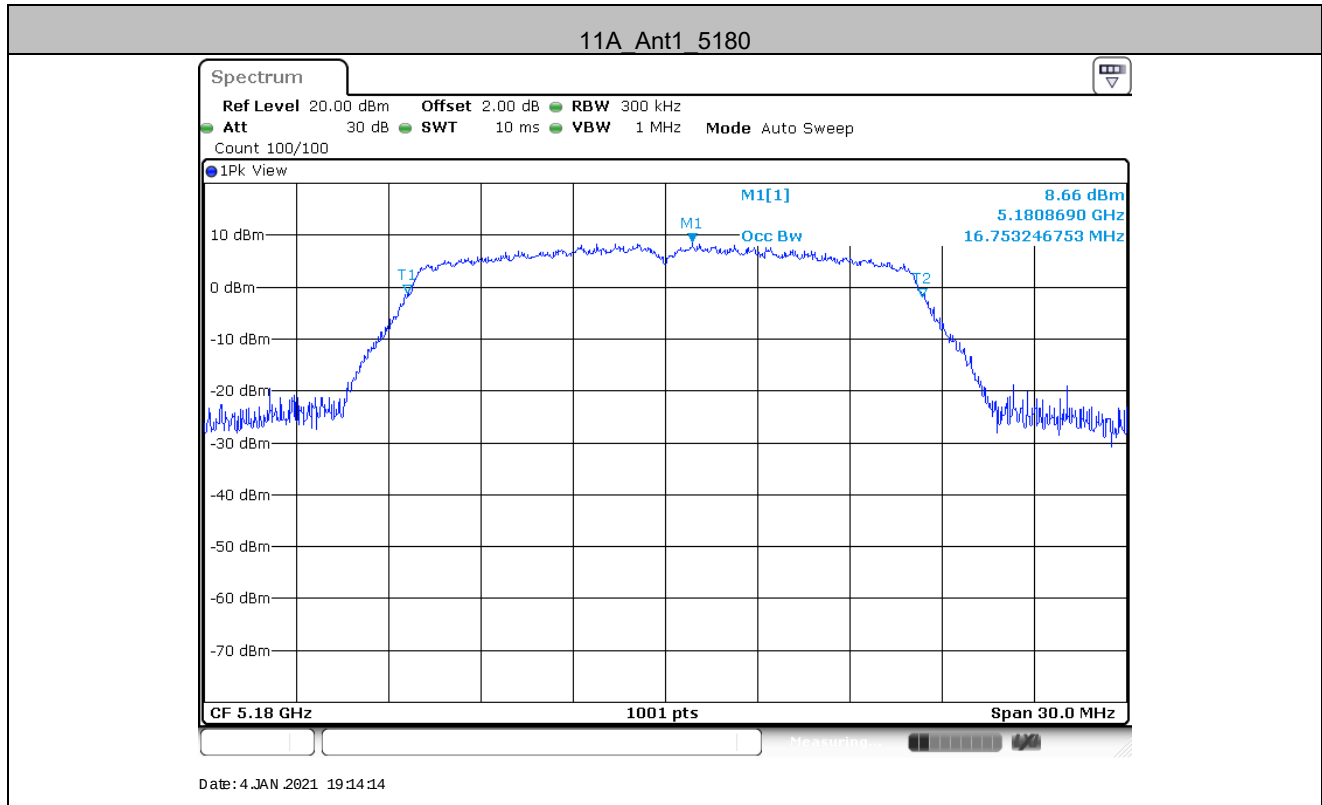
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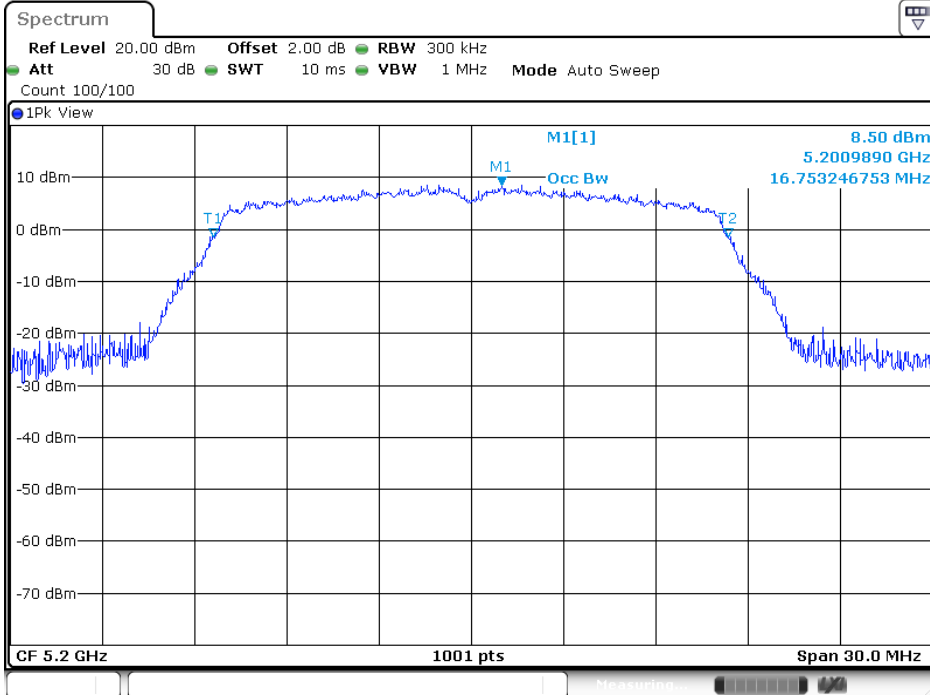
Test Graphs



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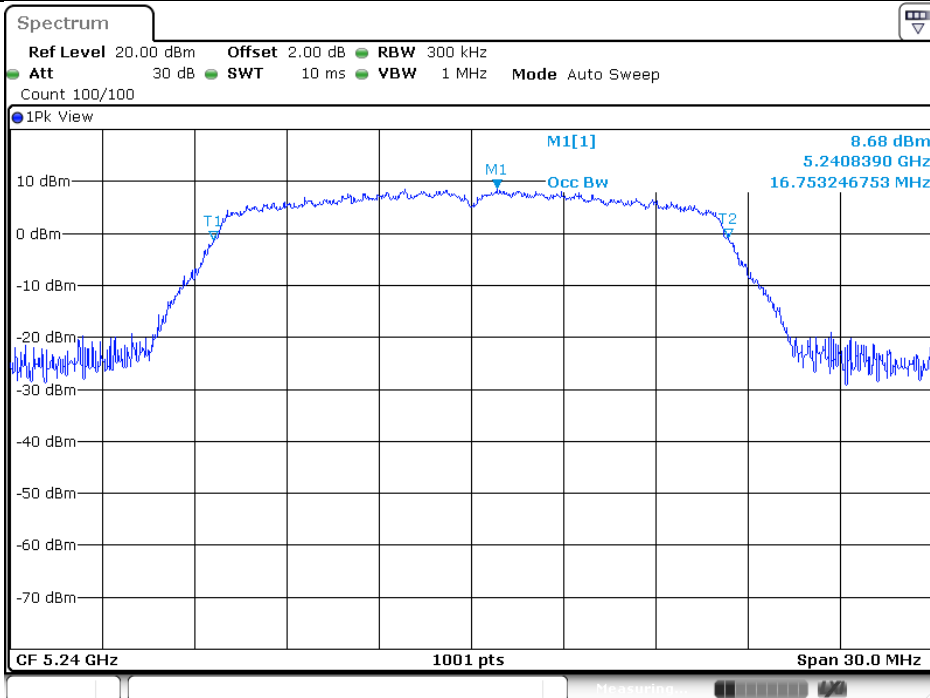
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11A Ant1 5240



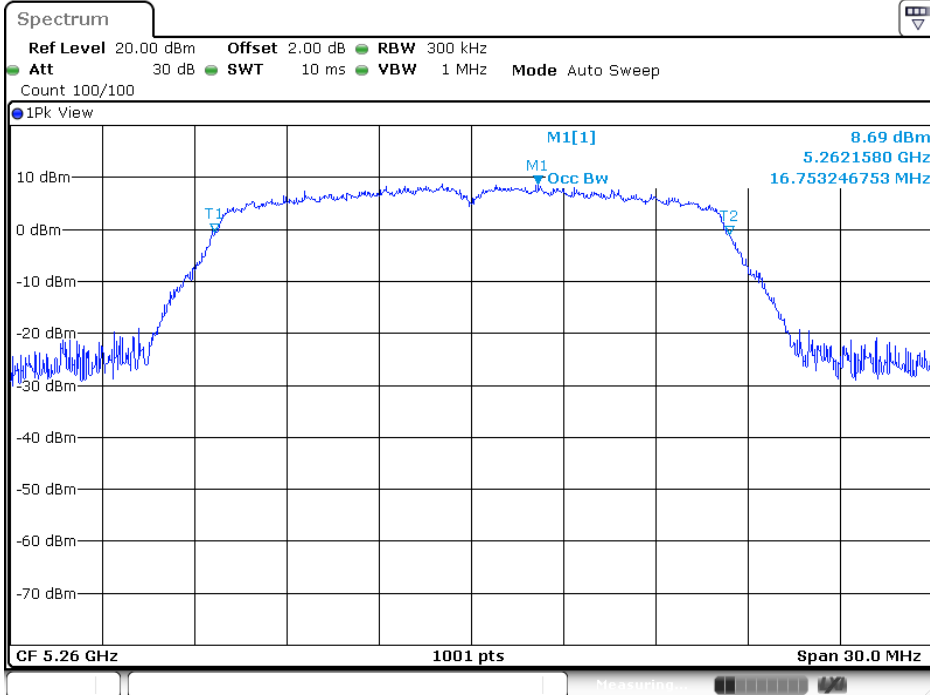
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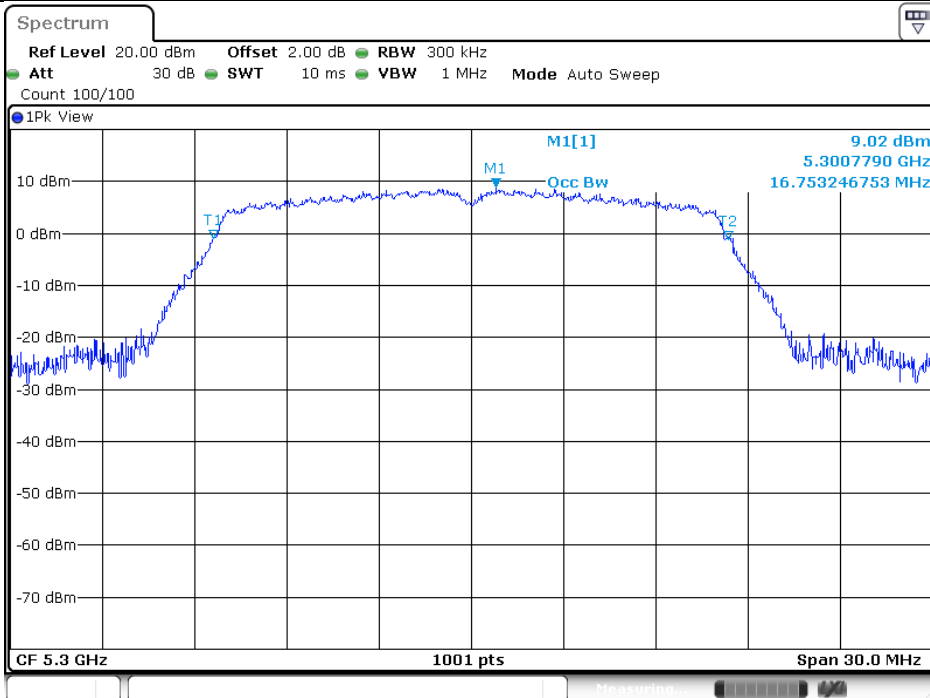
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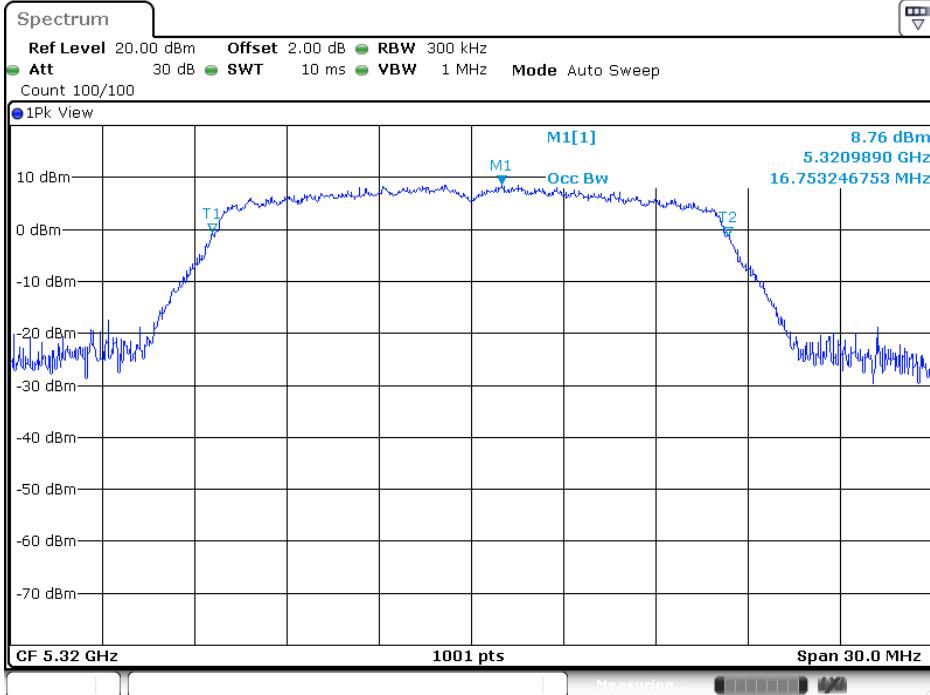
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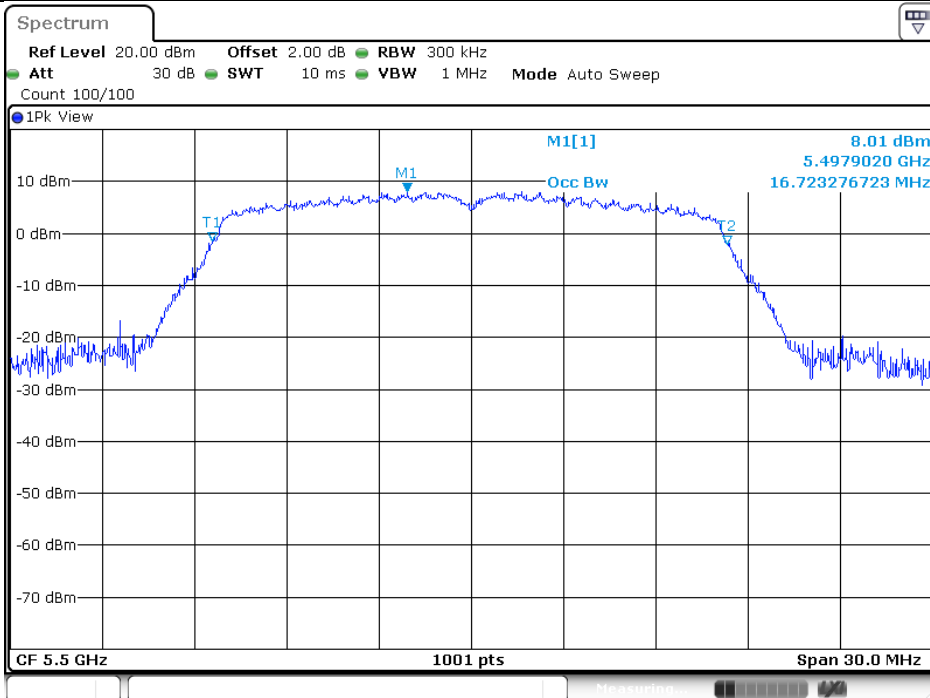
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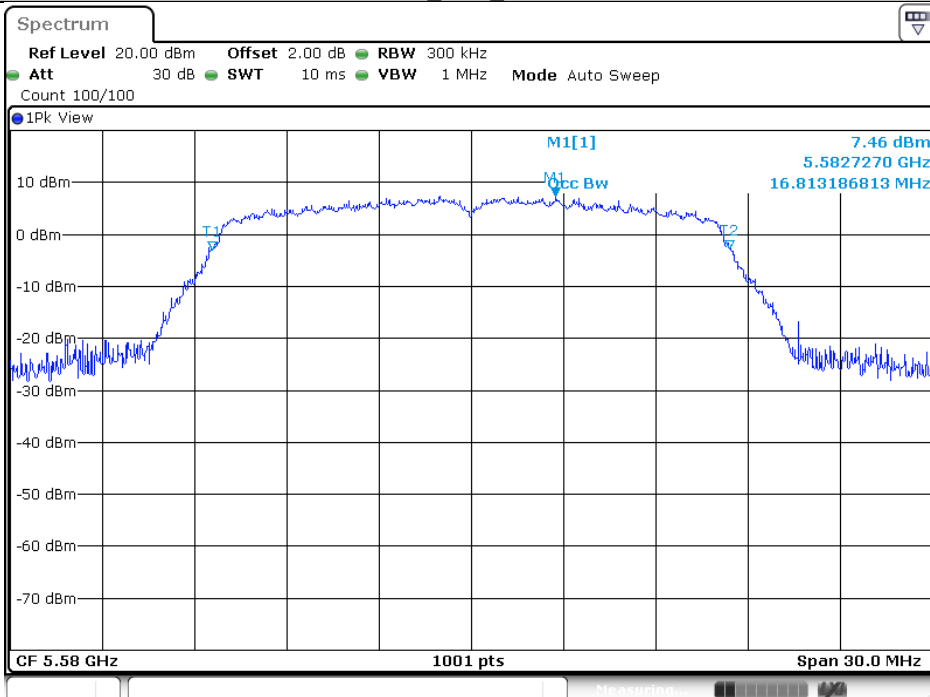
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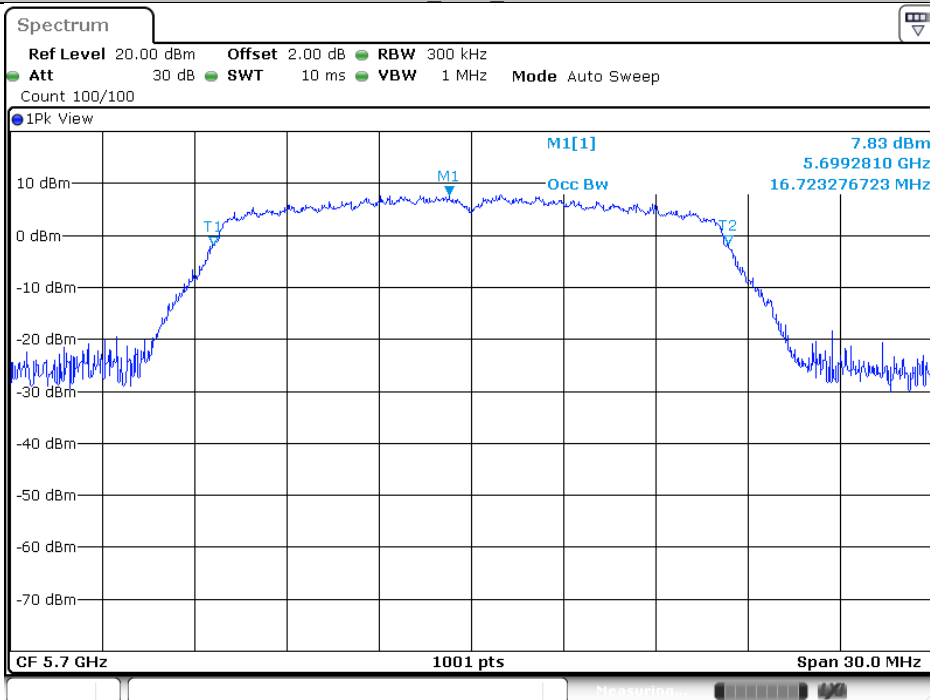
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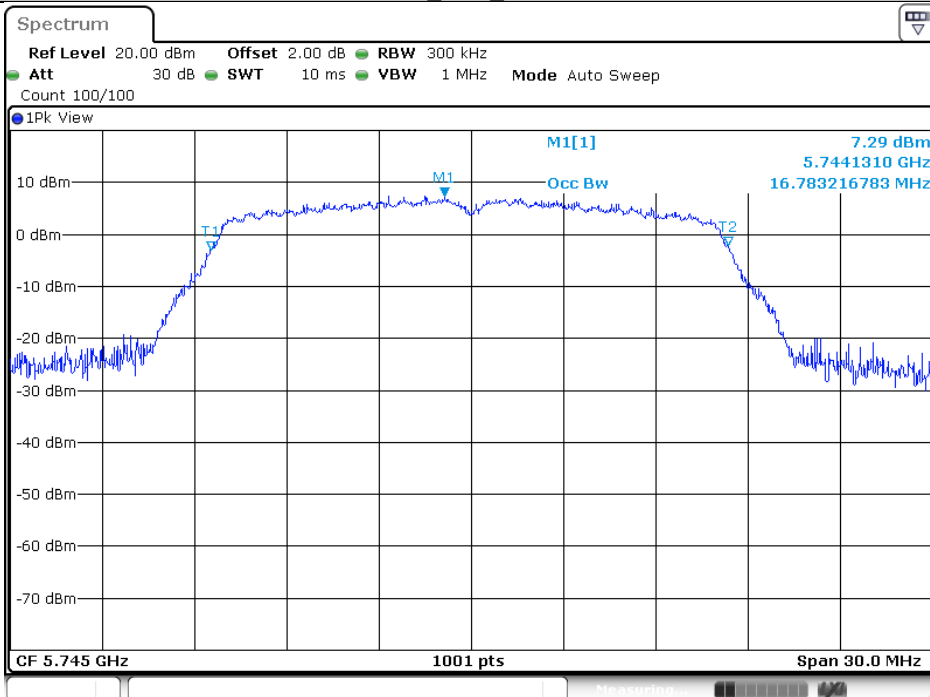
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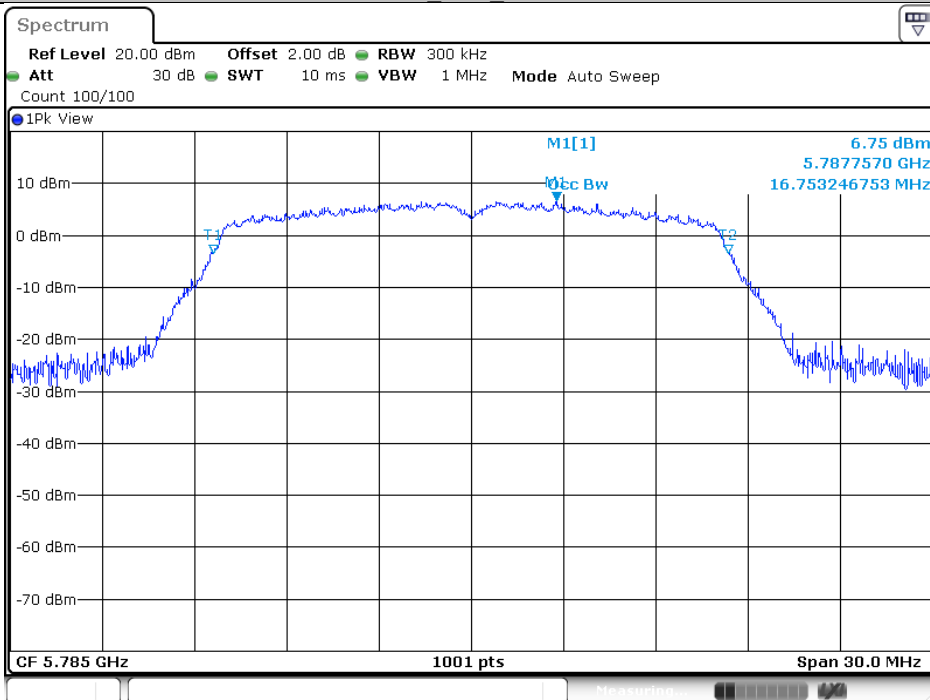
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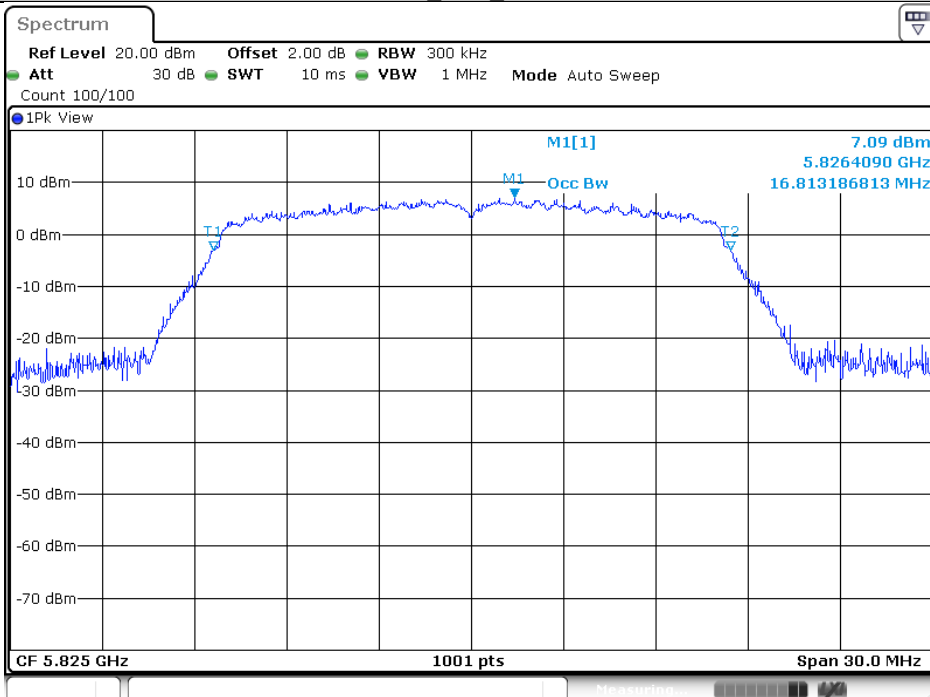
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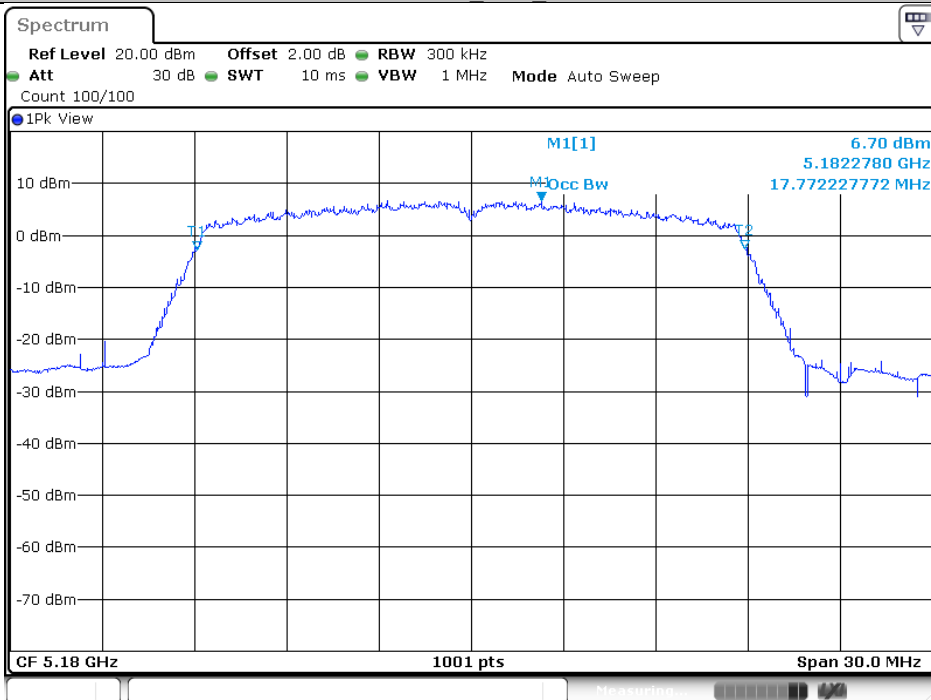
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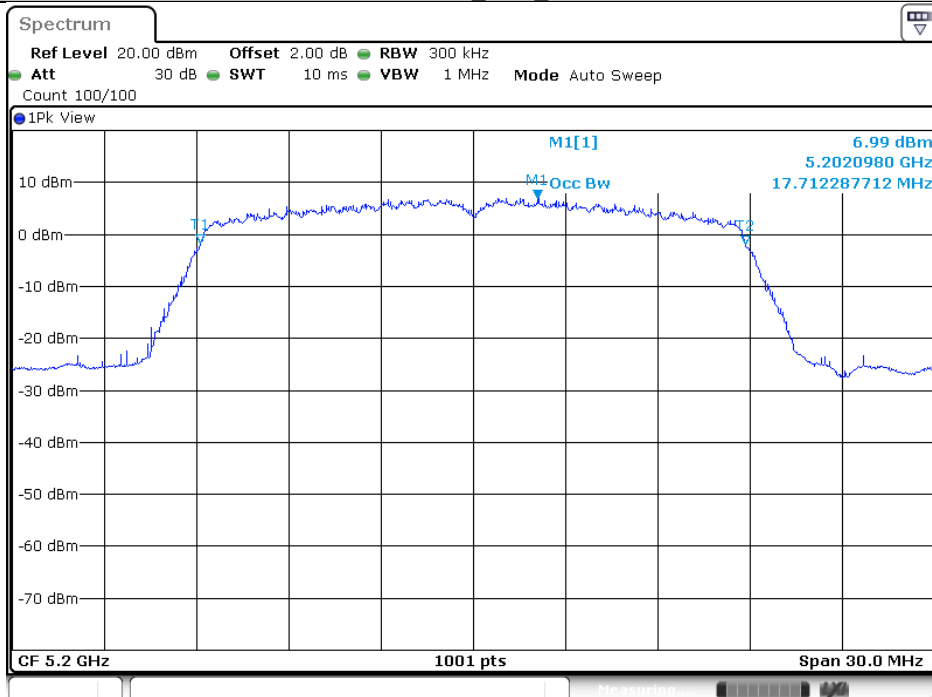
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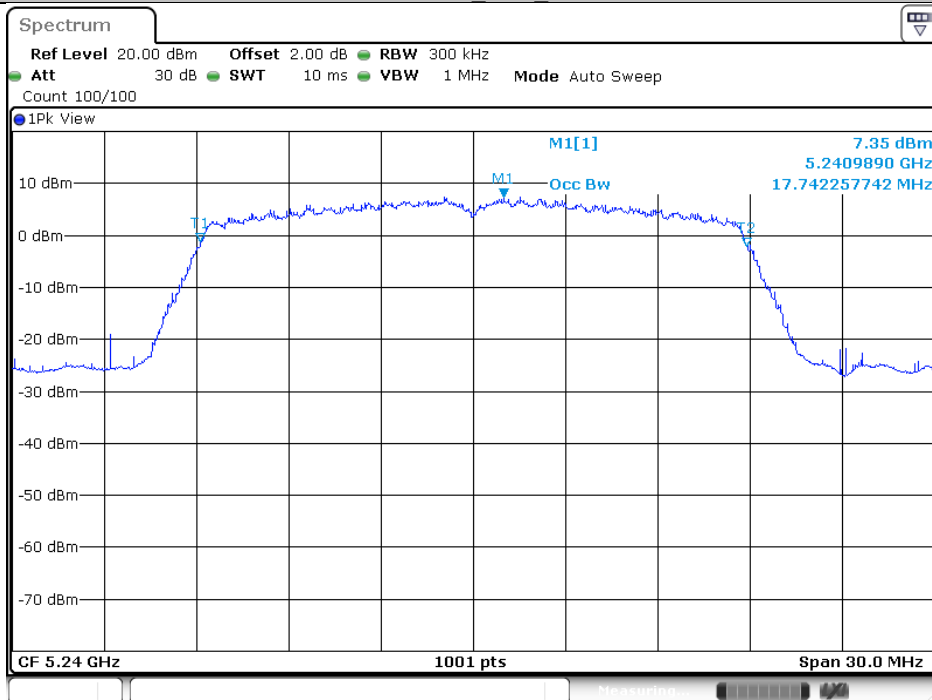
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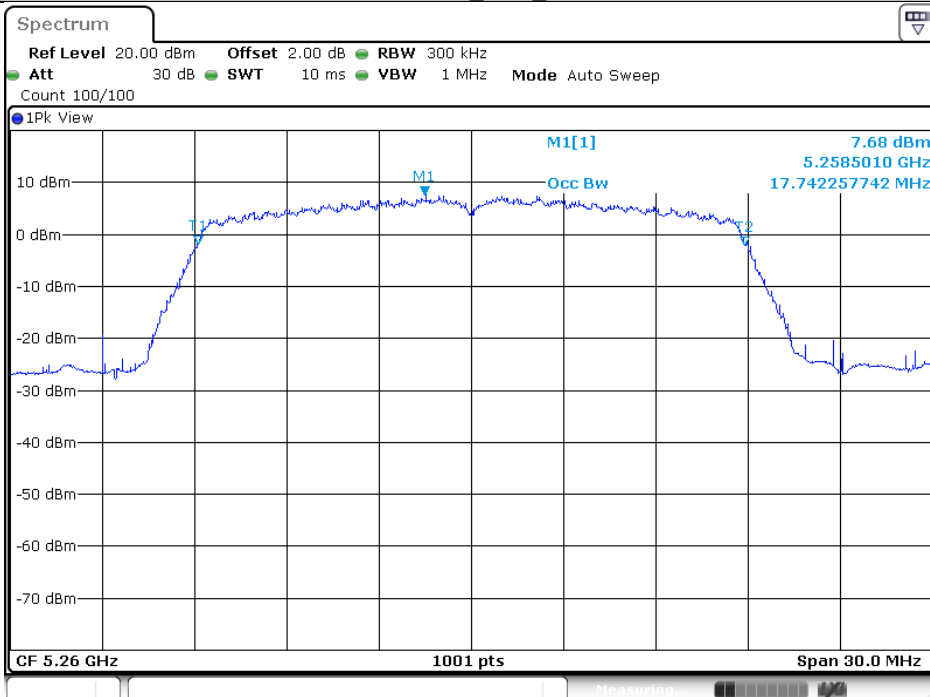
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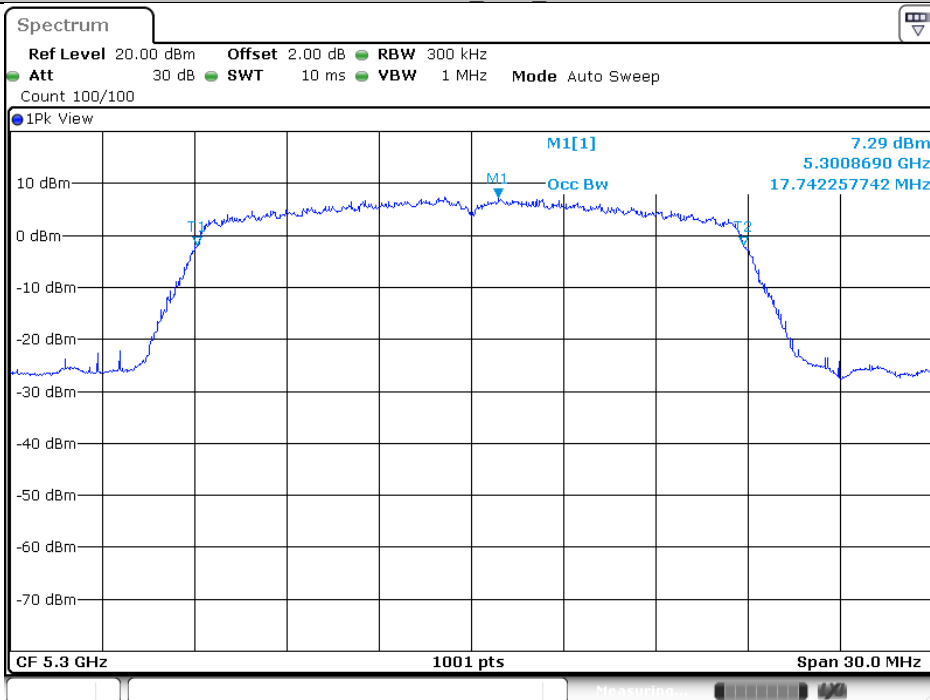
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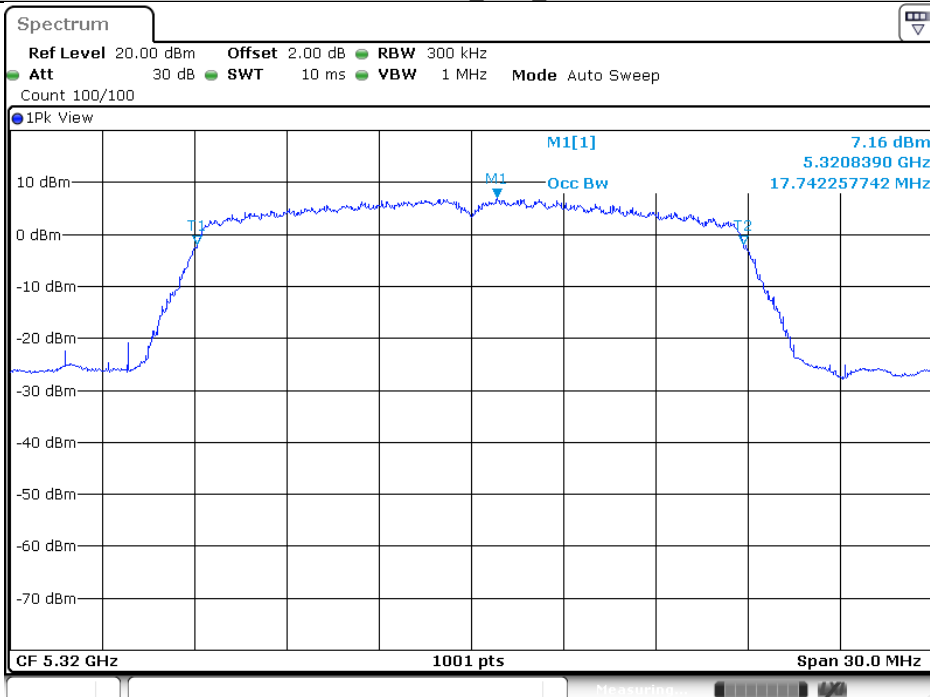
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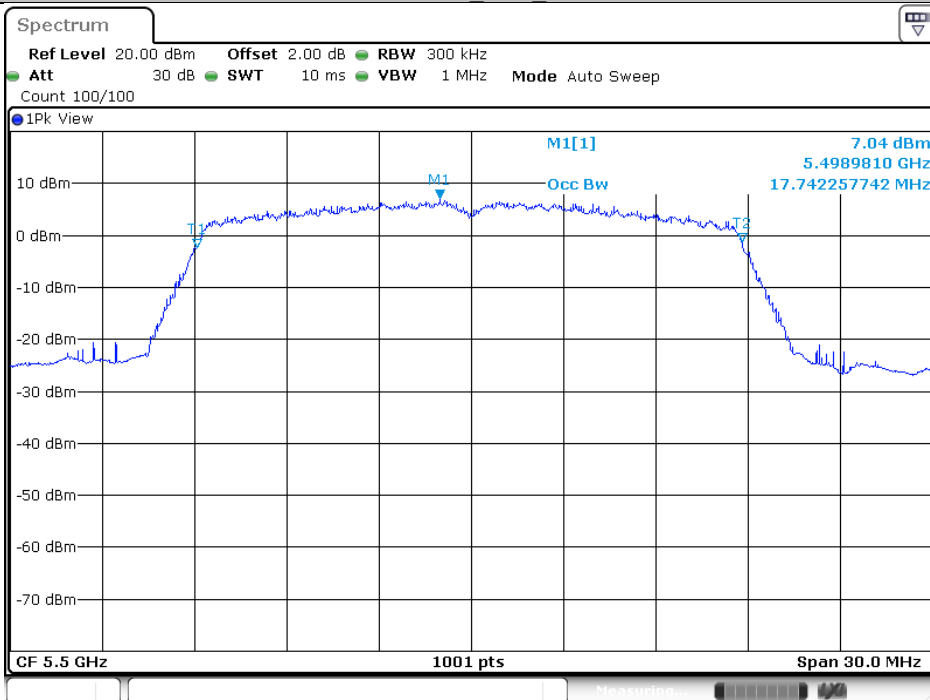
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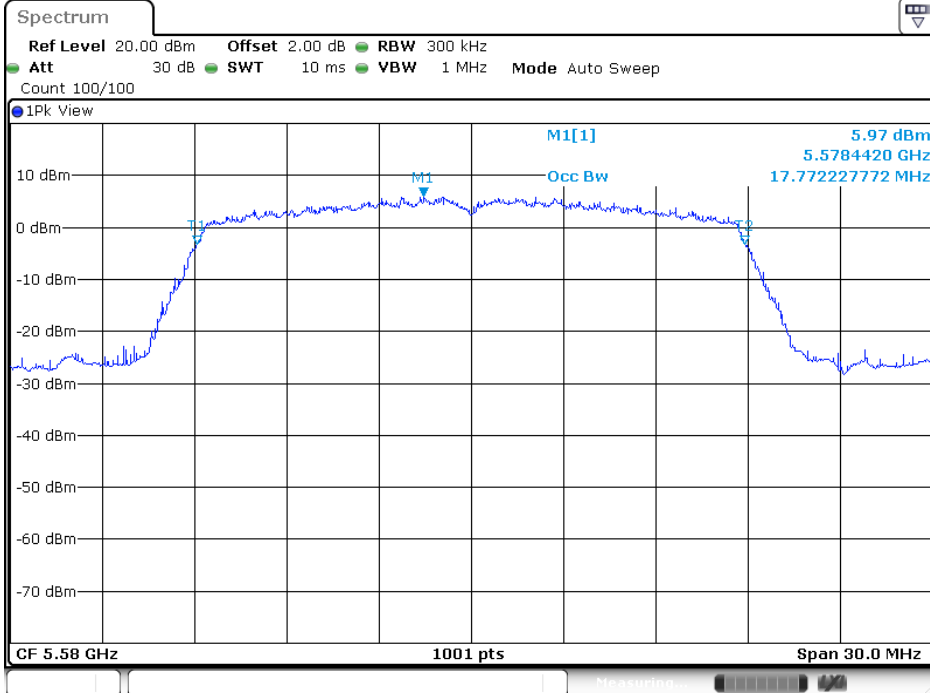
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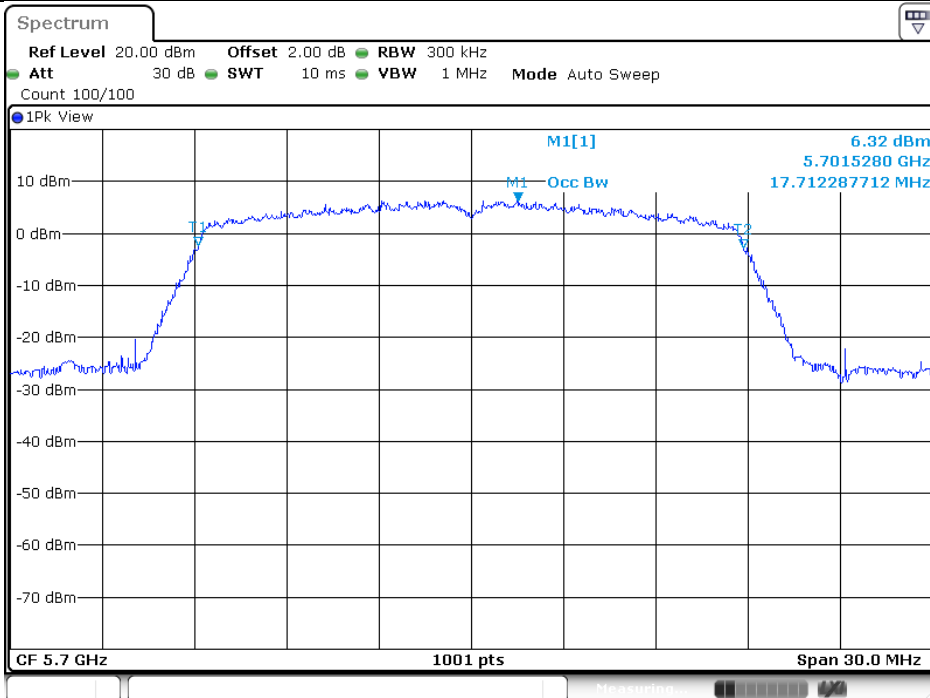
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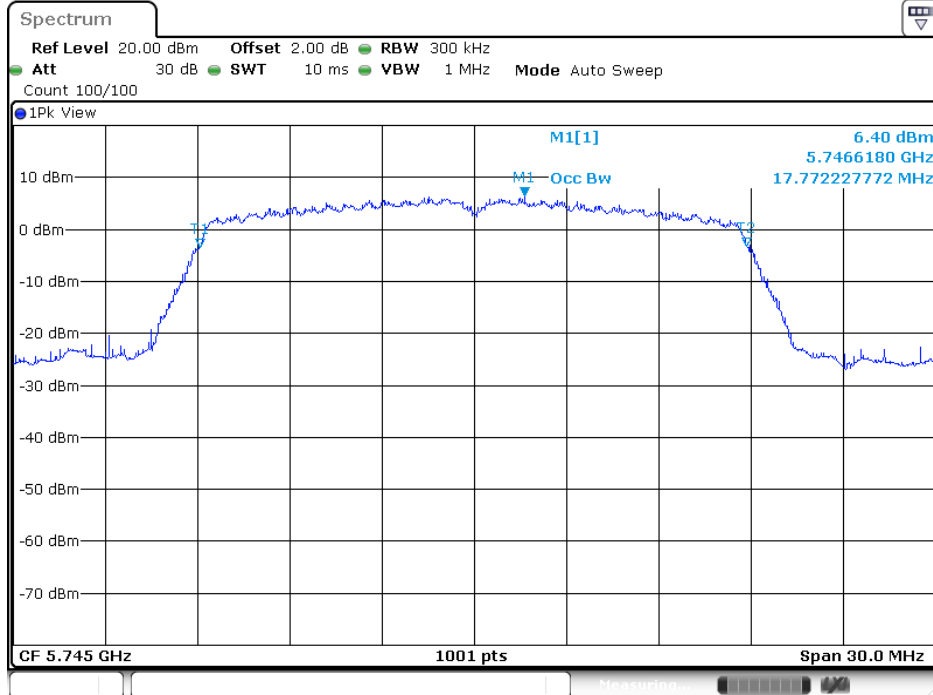
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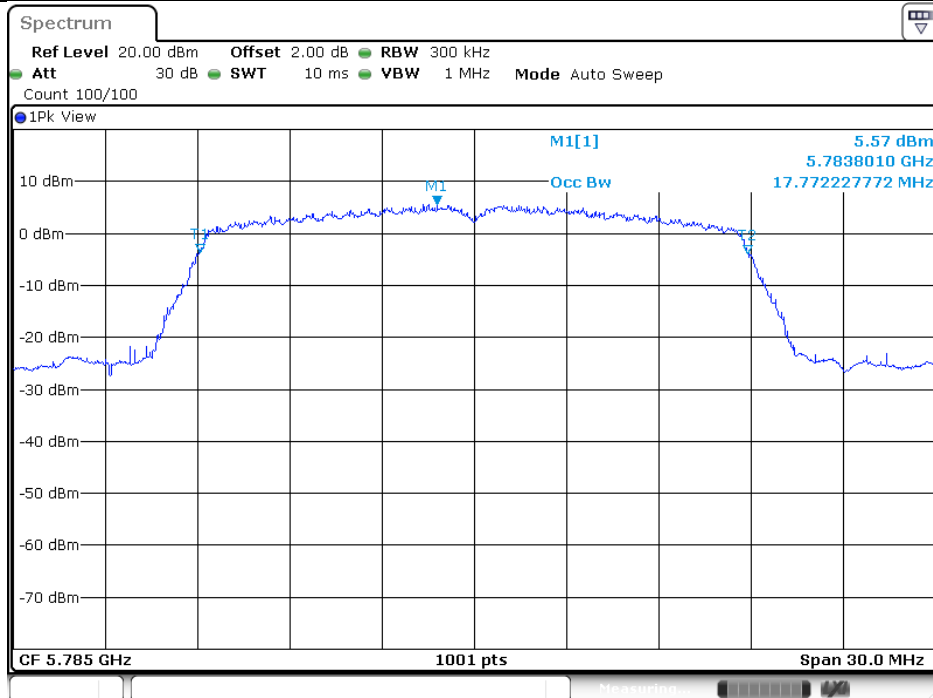
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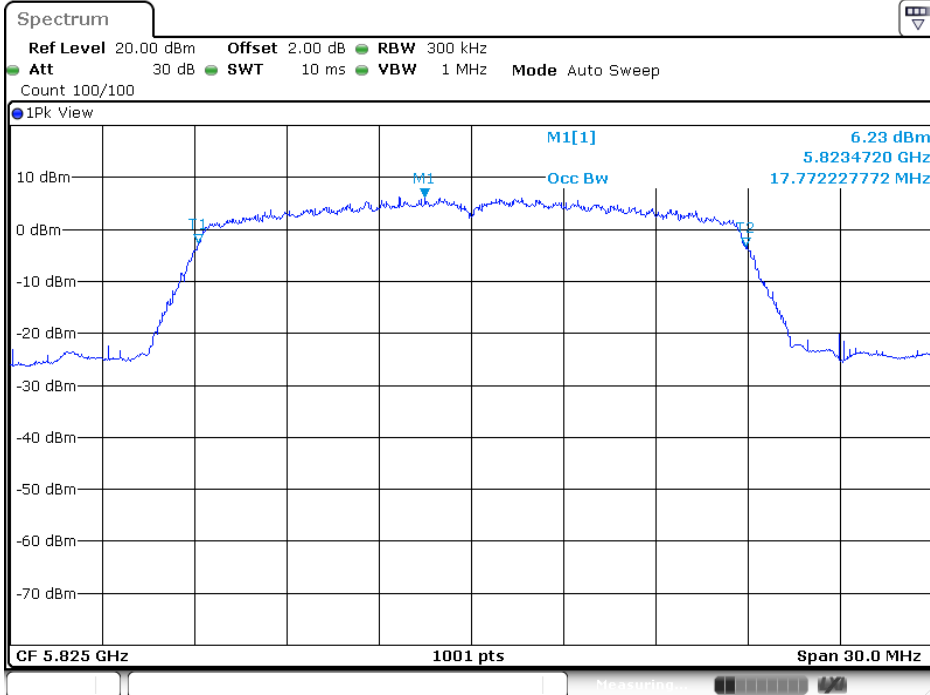
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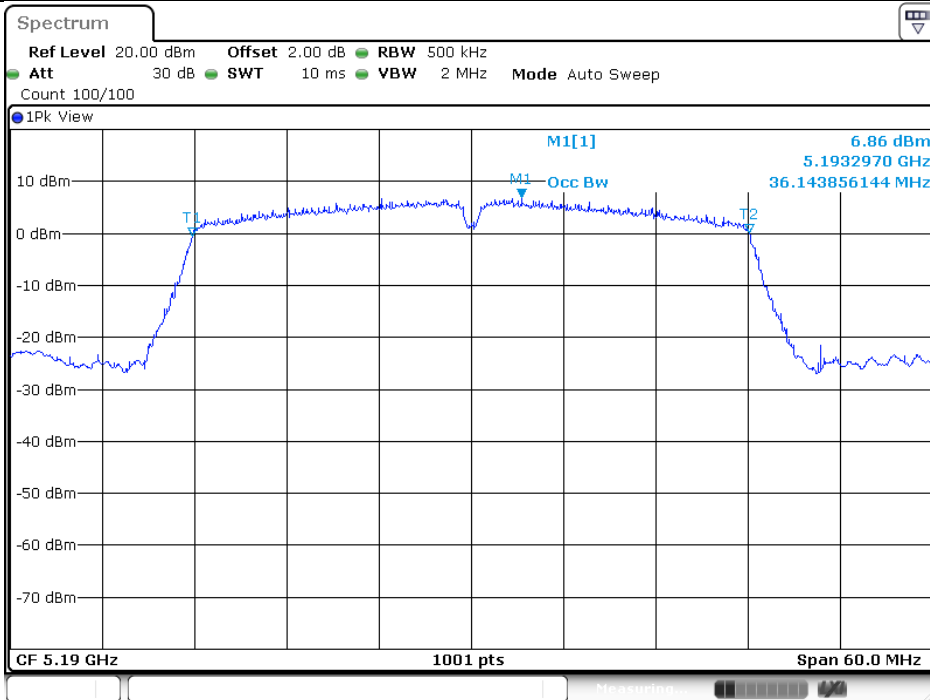
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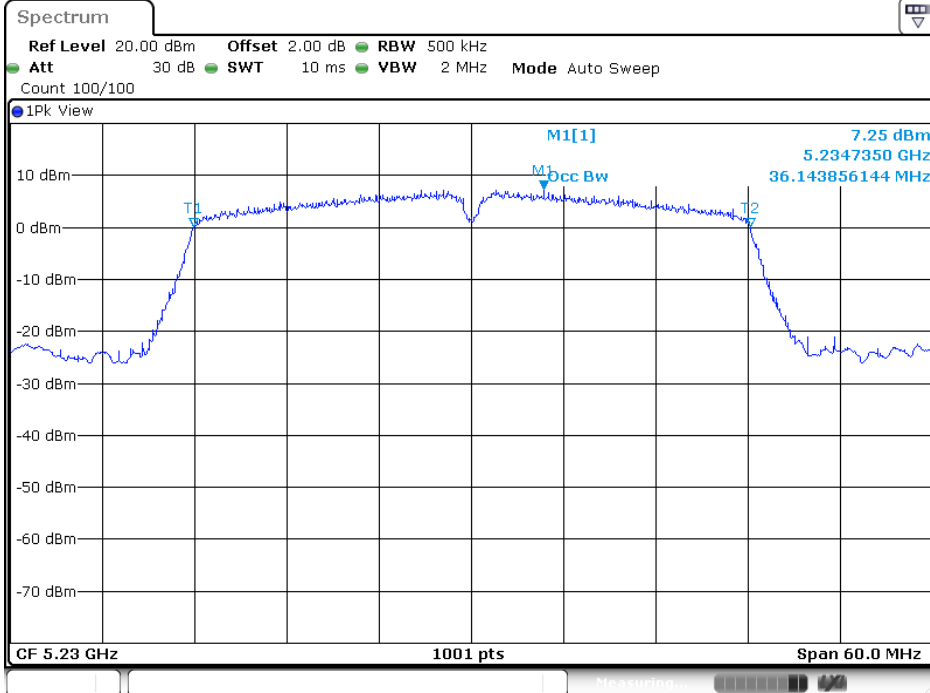
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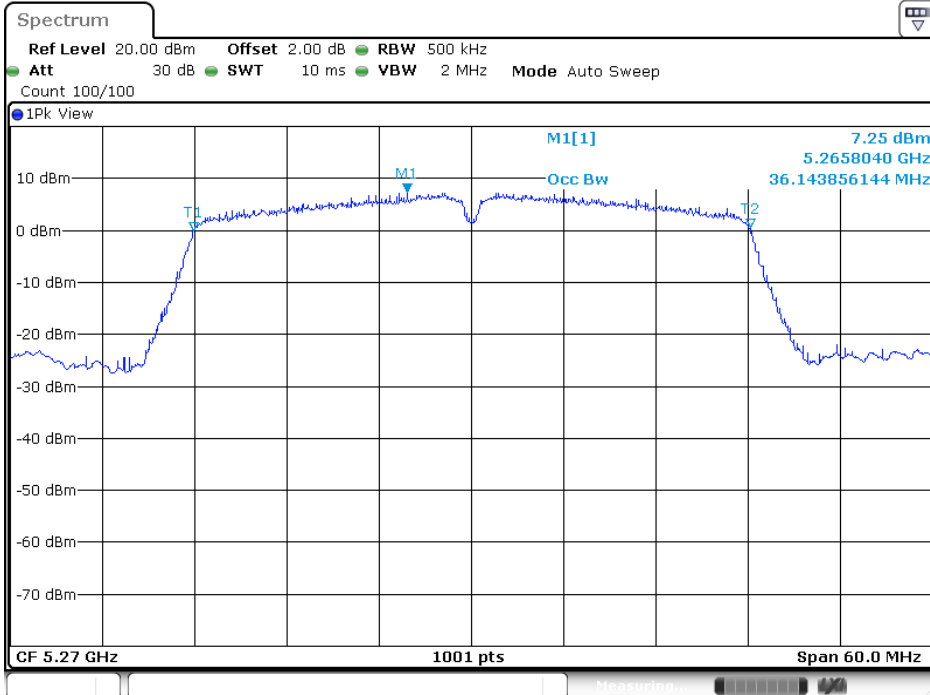
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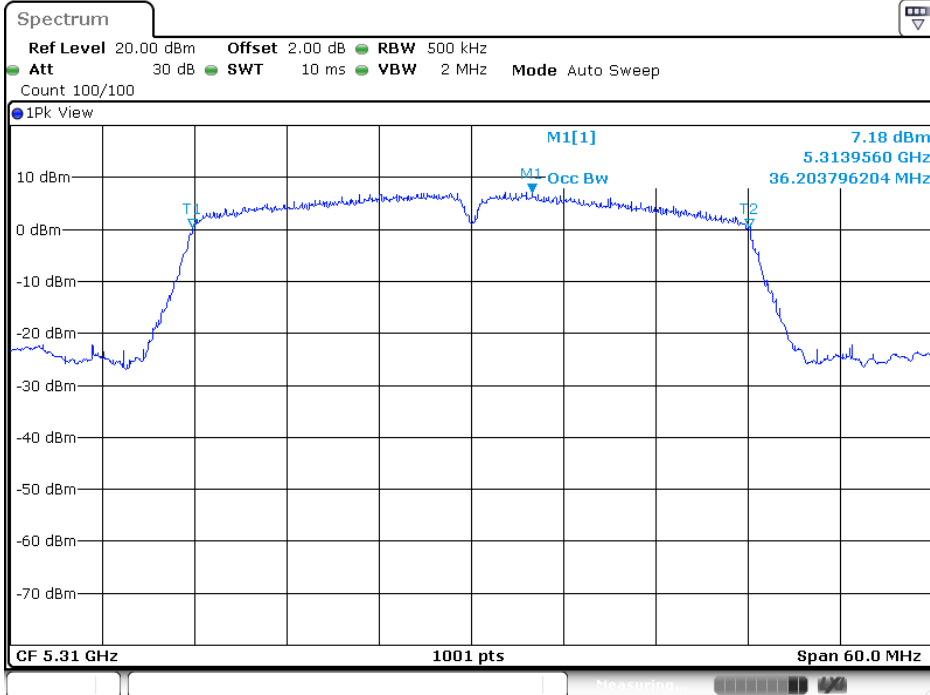
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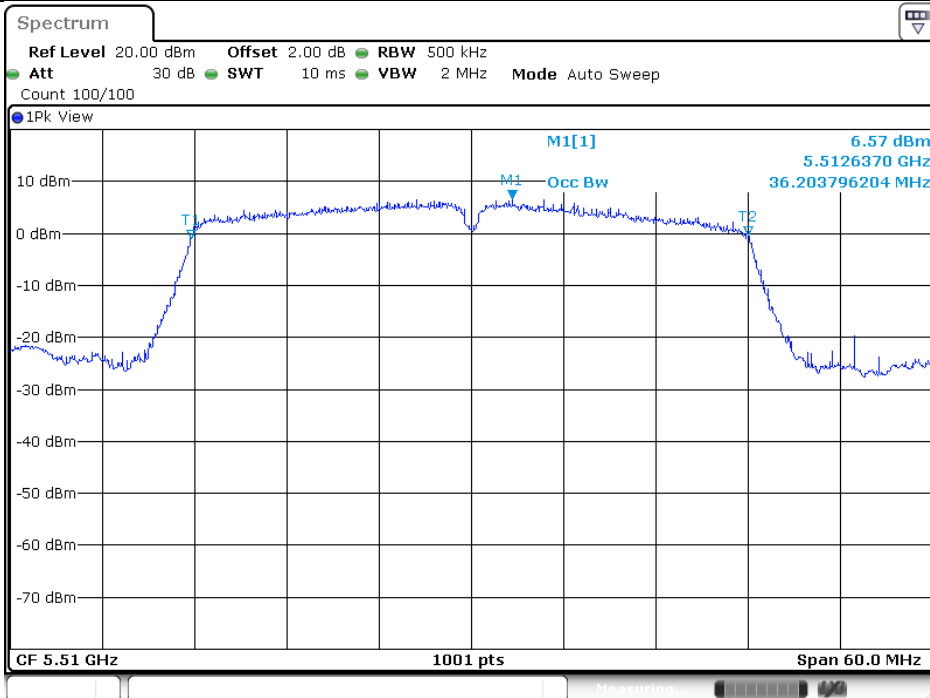
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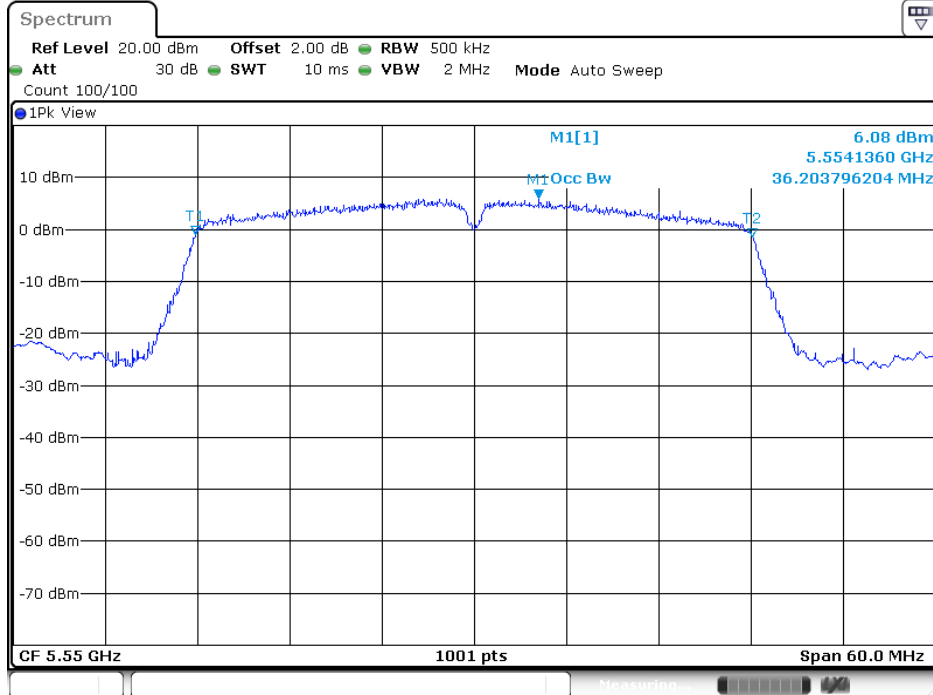
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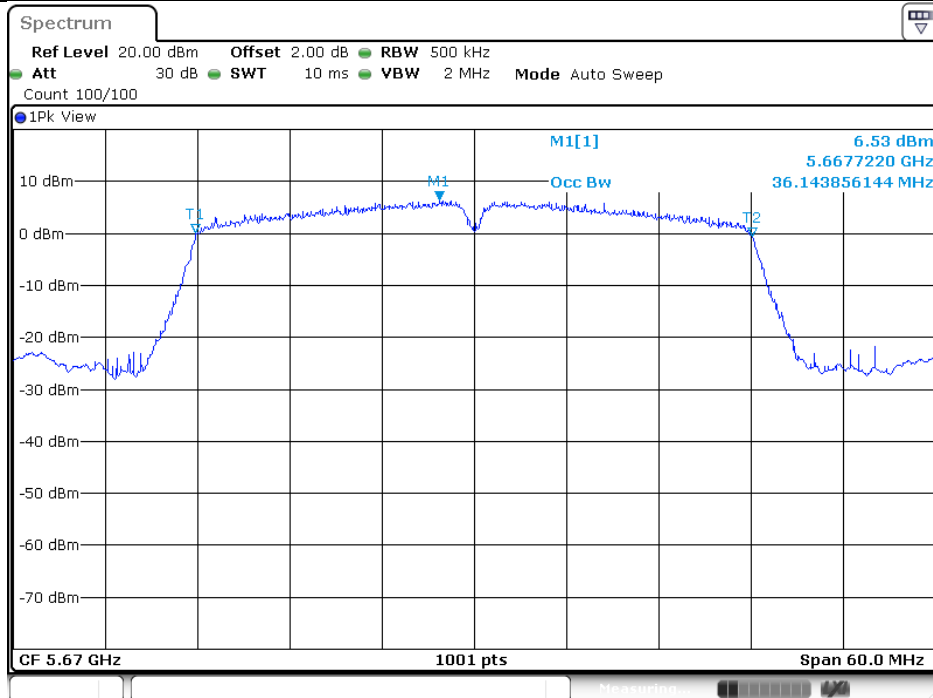
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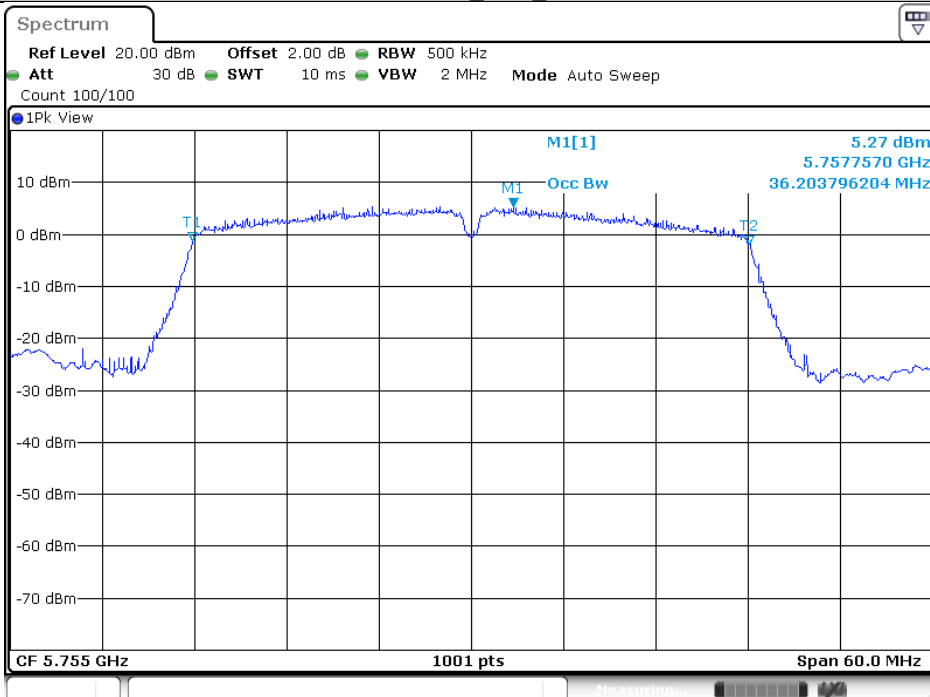
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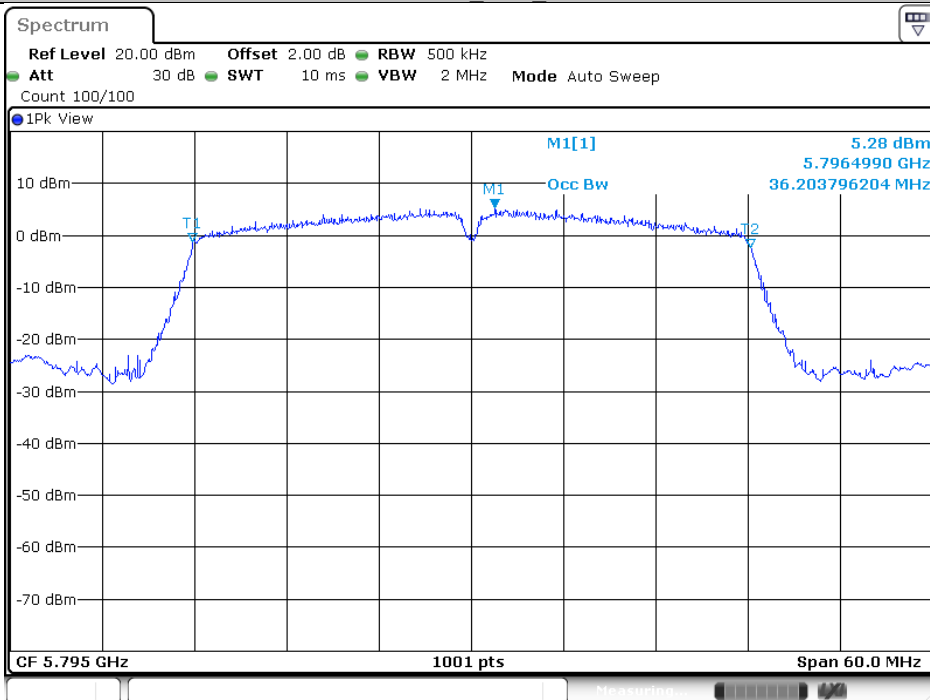
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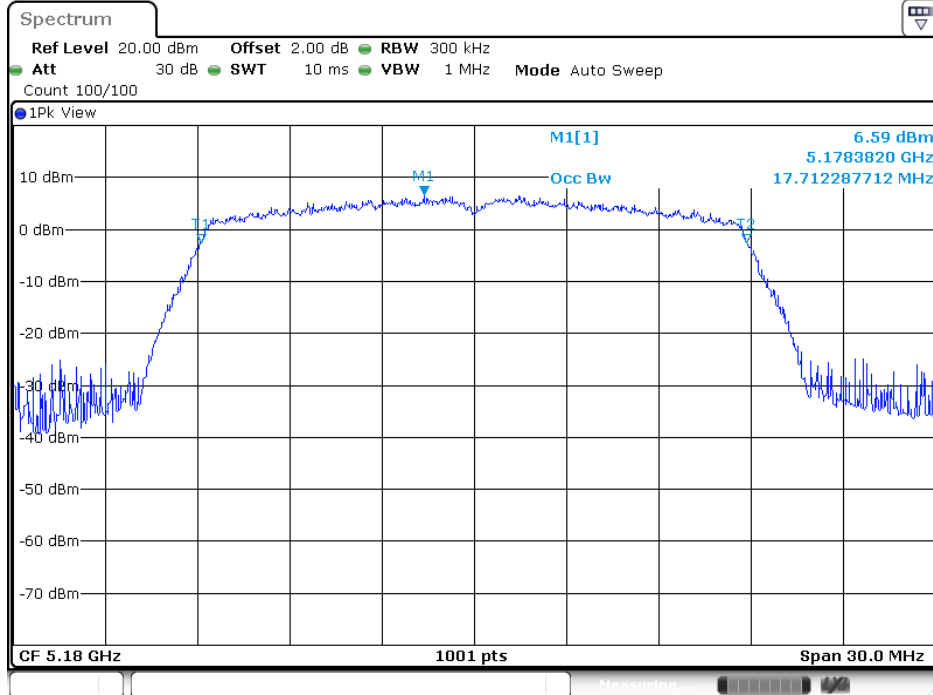
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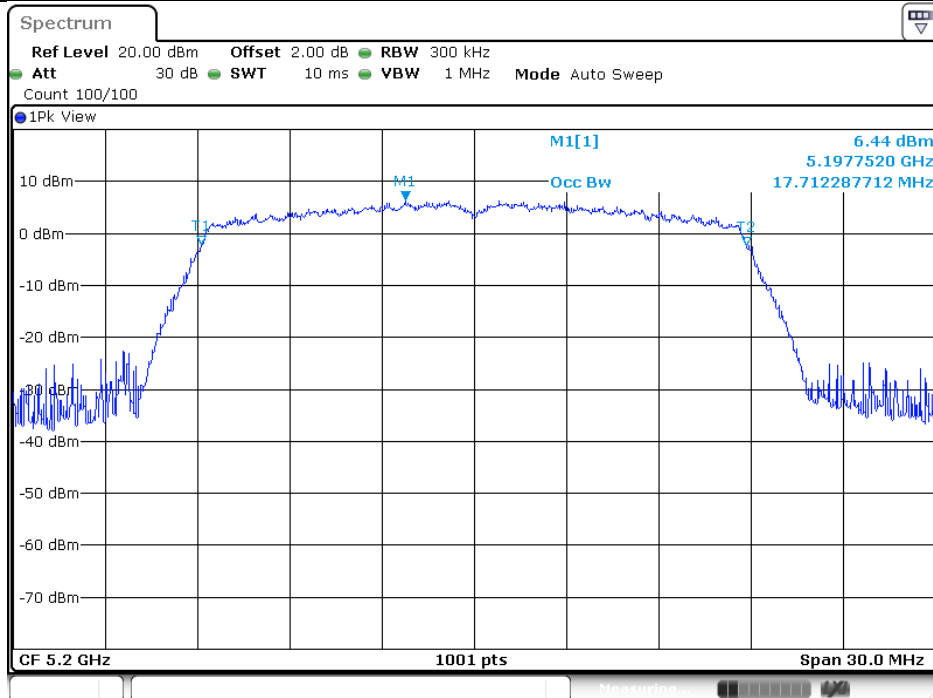
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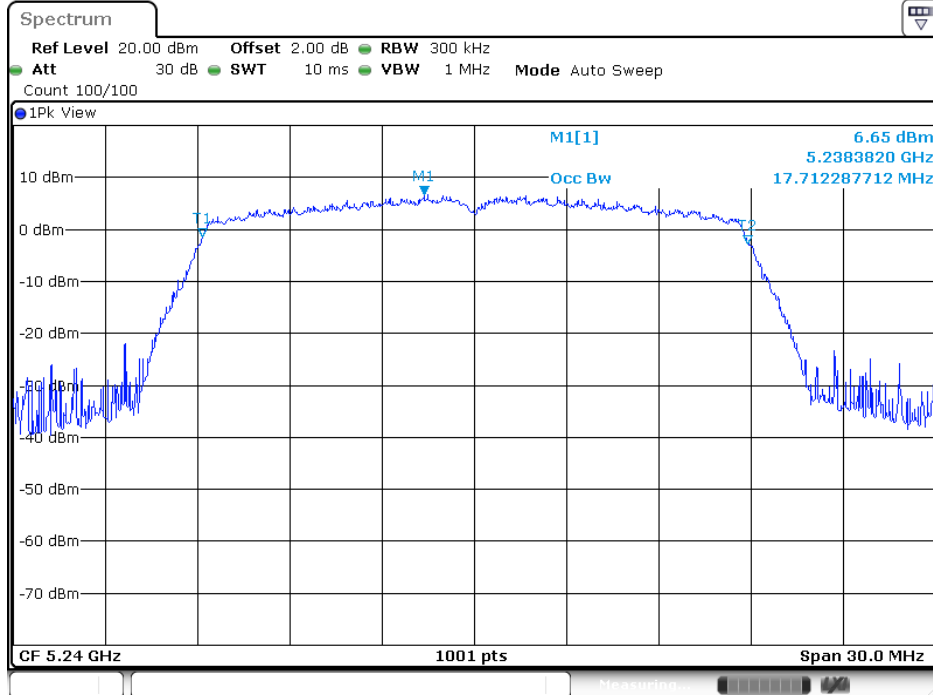
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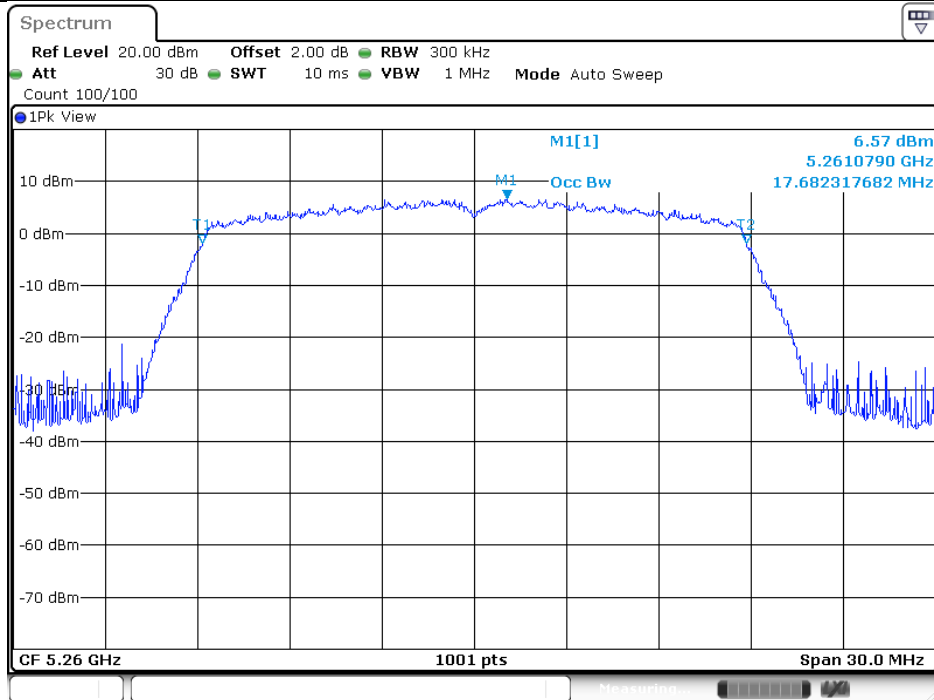
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11AC20SISO Ant1 5240



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11AC20SISO Ant1 5260



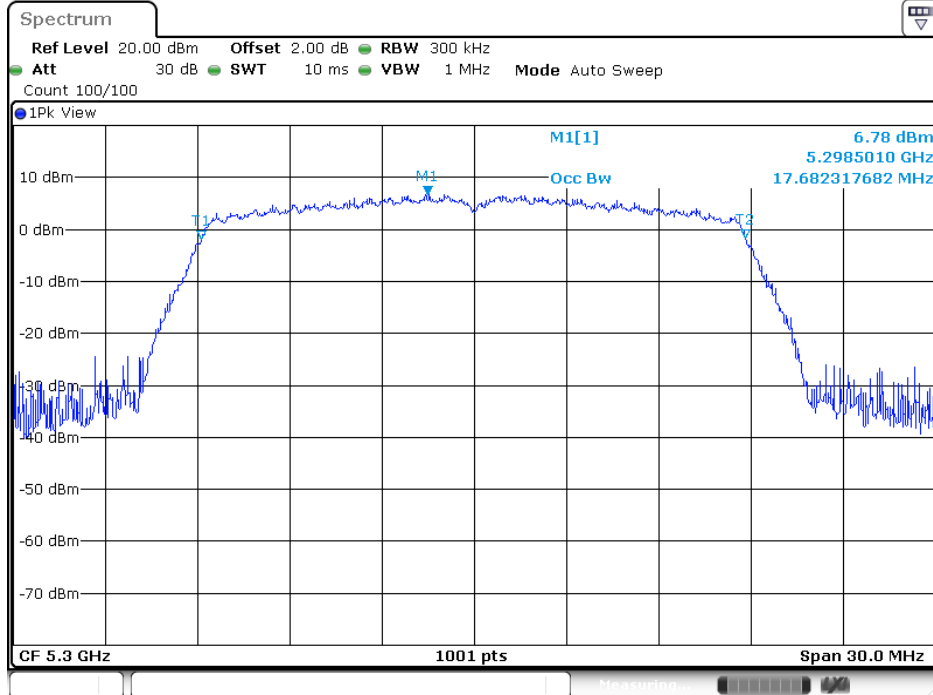
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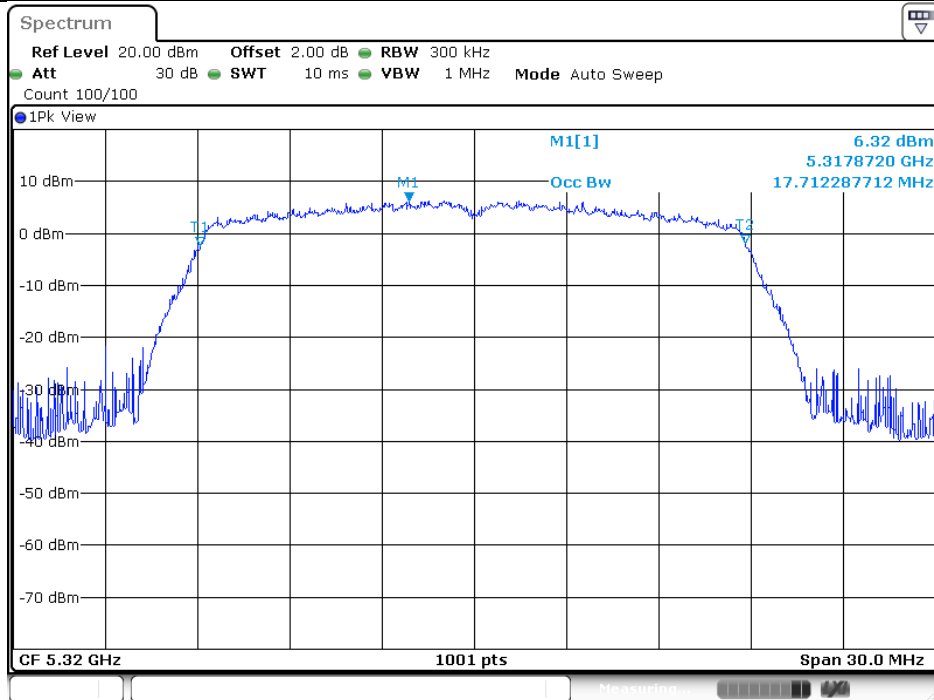
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11AC20SISO Ant1 5300



Date: 4 JAN 2021 20:18:03

11AC20SISO Ant1 5320



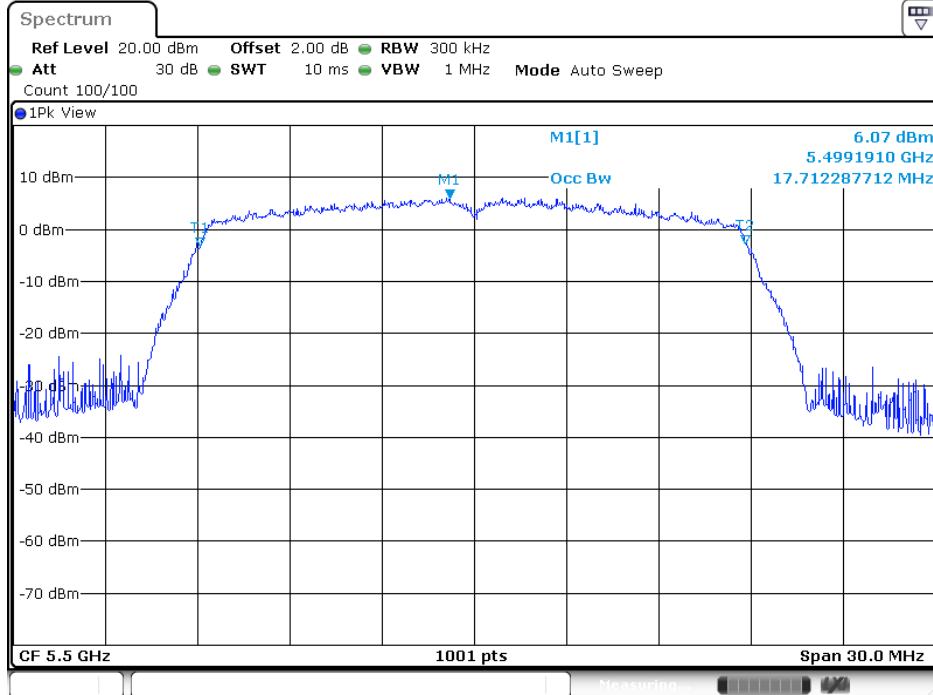
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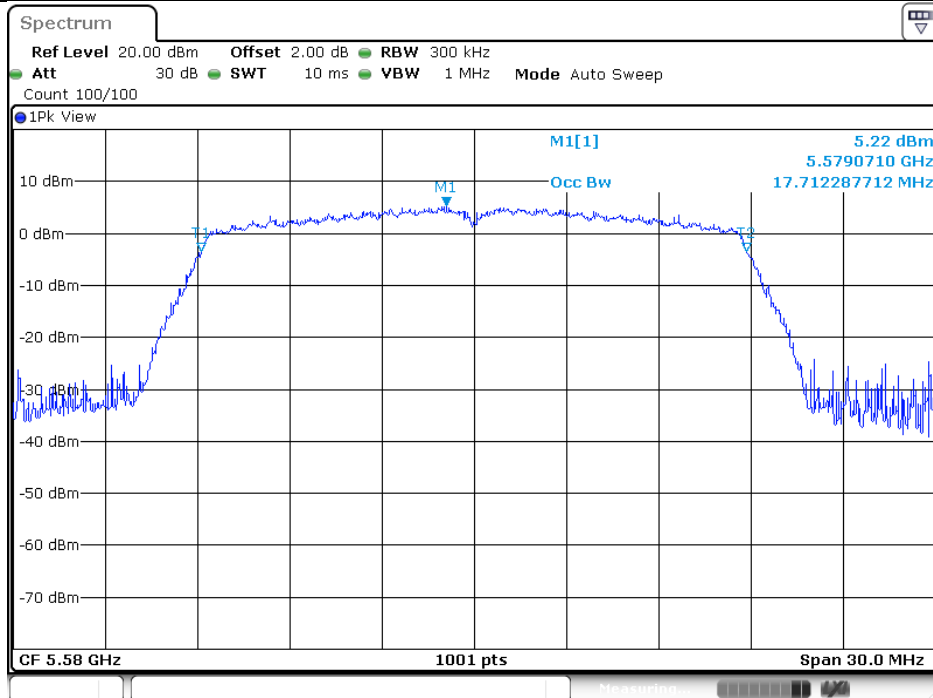
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11AC20SISO Ant1 5580



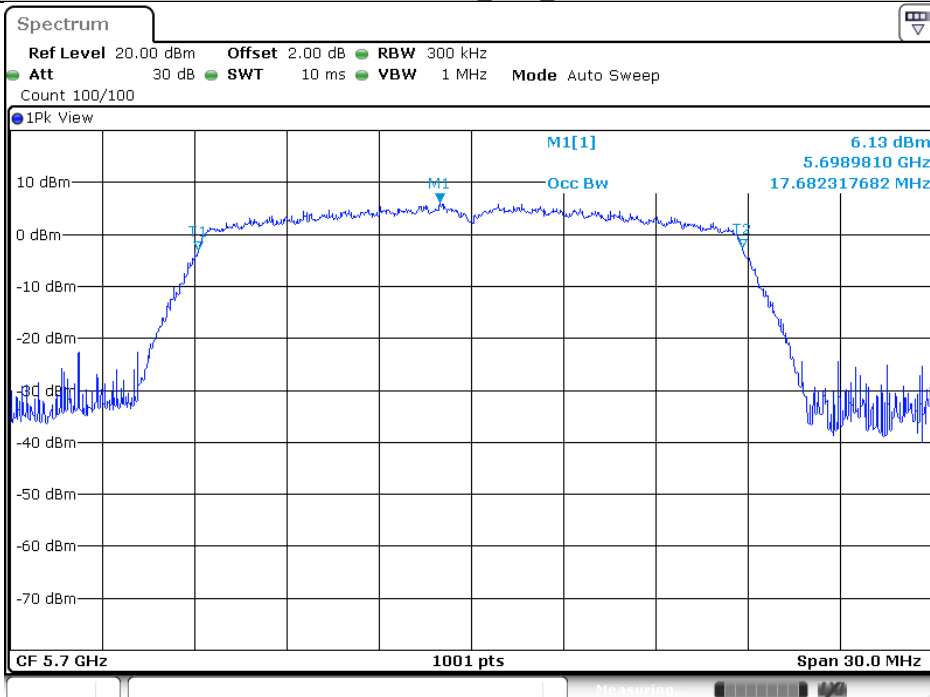
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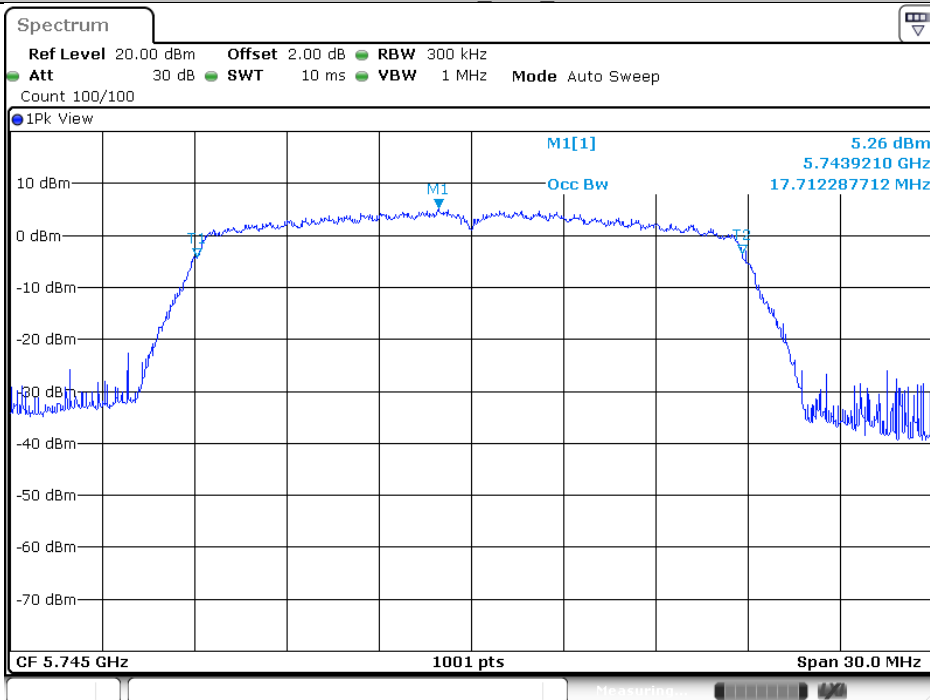
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11AC20SISO Ant1 5745



Date: 4 JAN 2021 20:27:00



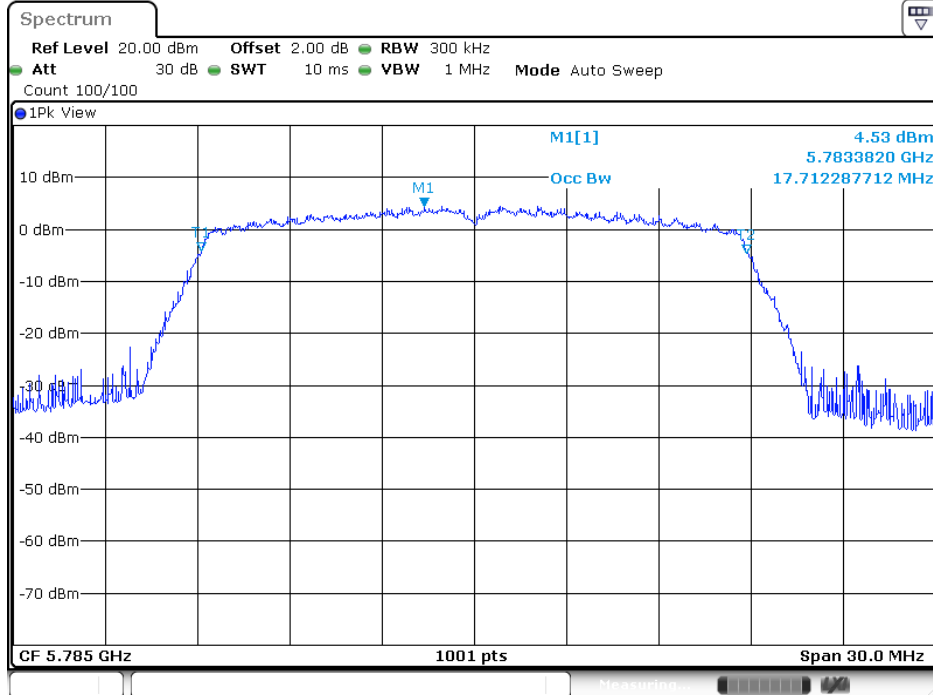
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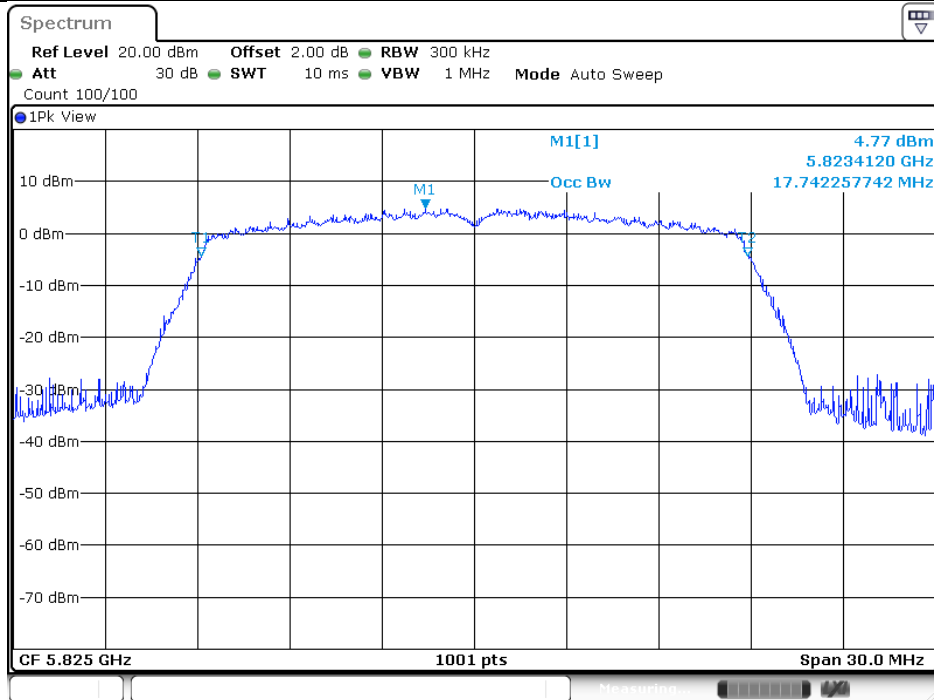
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11AC20SISO Ant1 5825



Date: 4 JAN 2021 20:30:05



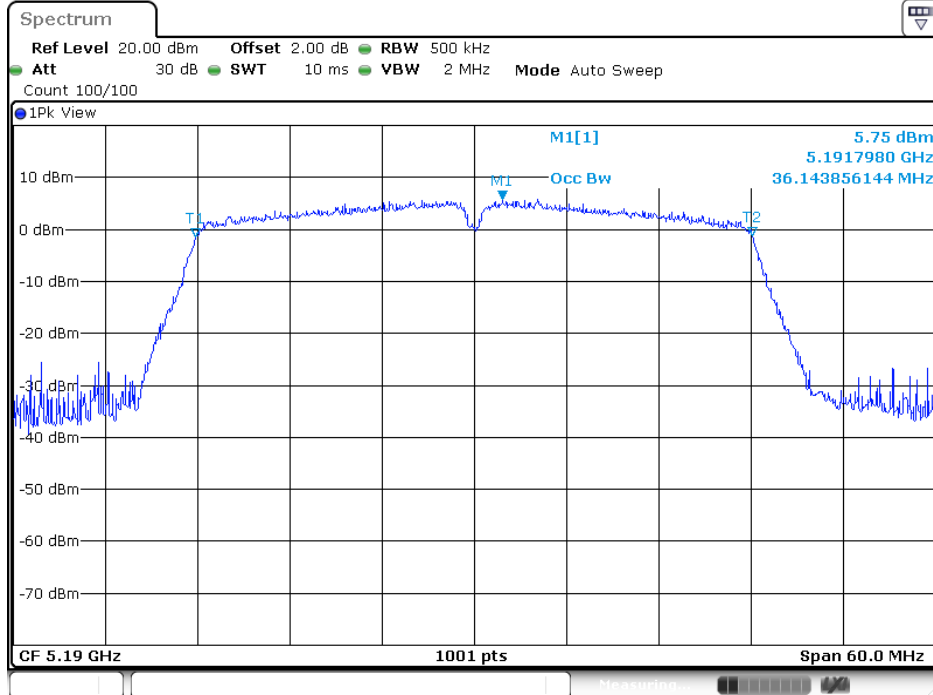
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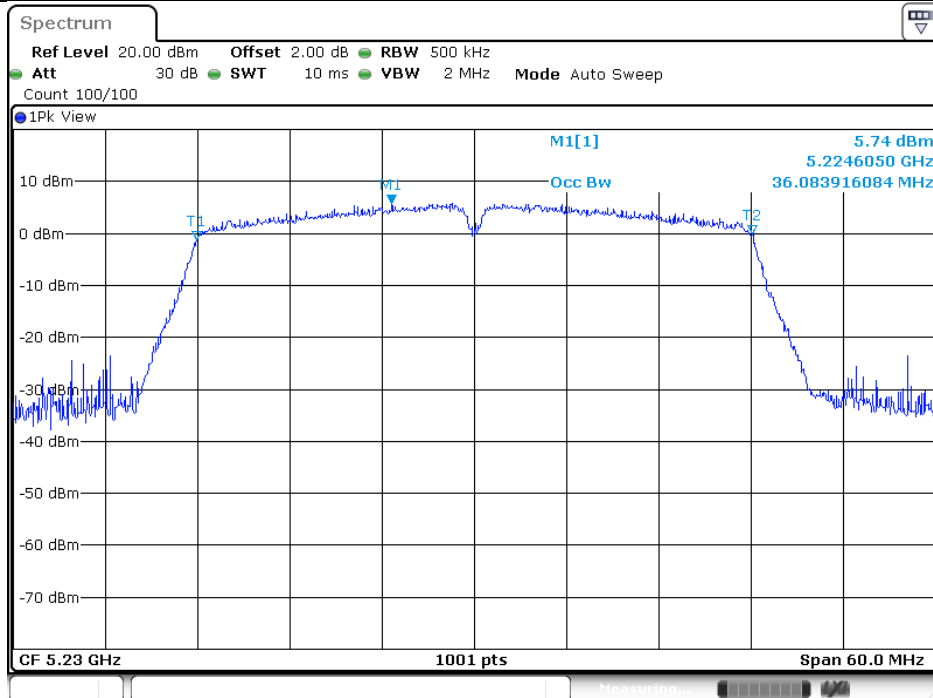
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11AC40SISO Ant1 5190



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11AC40SISO Ant1 5230



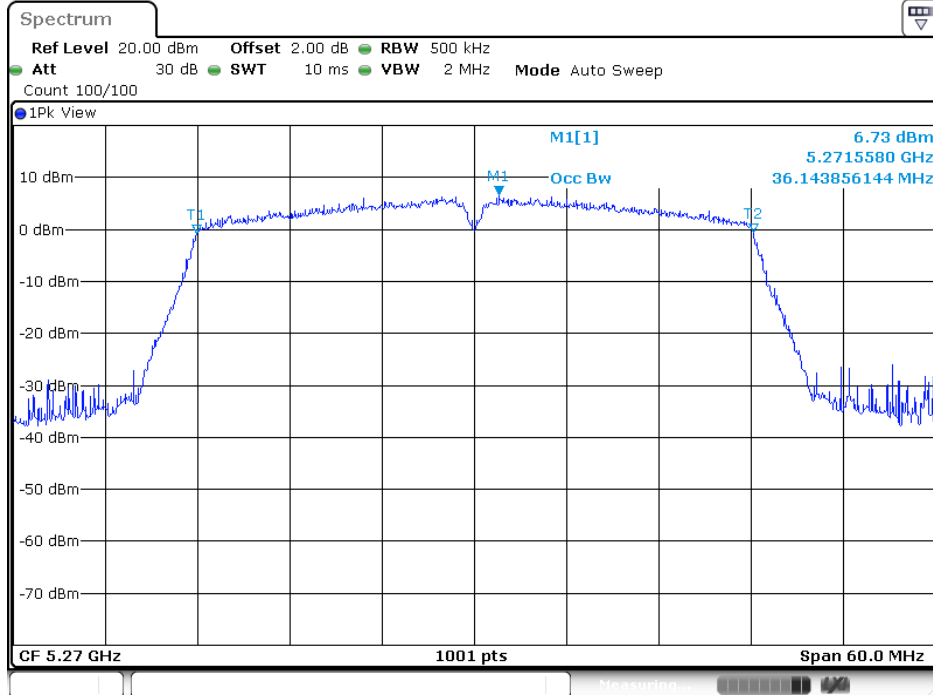
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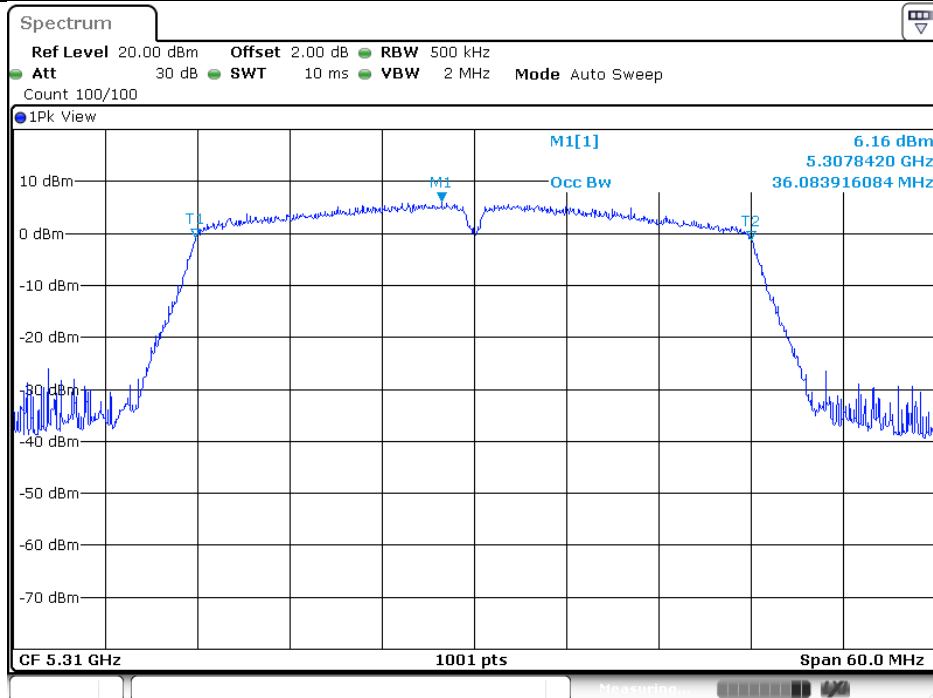
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11AC40SISO Ant1 5310

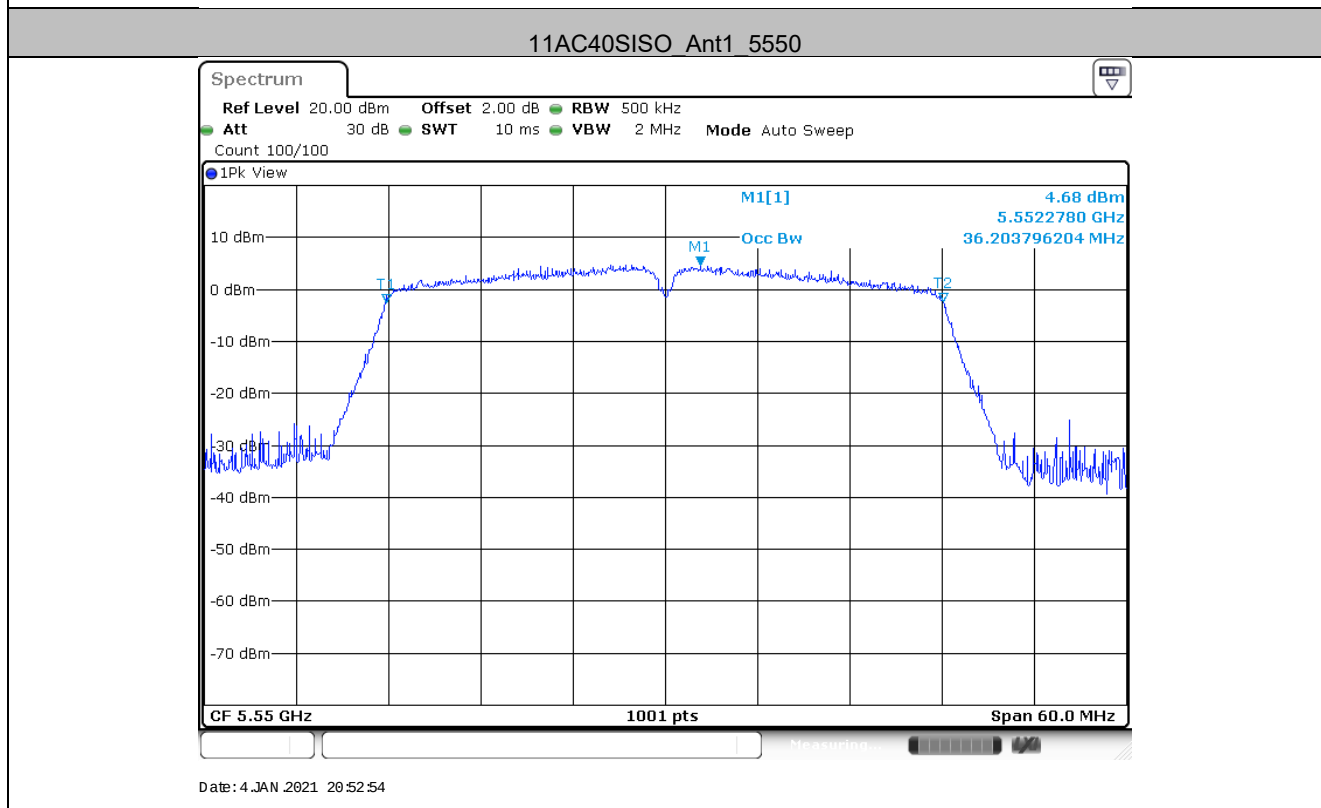
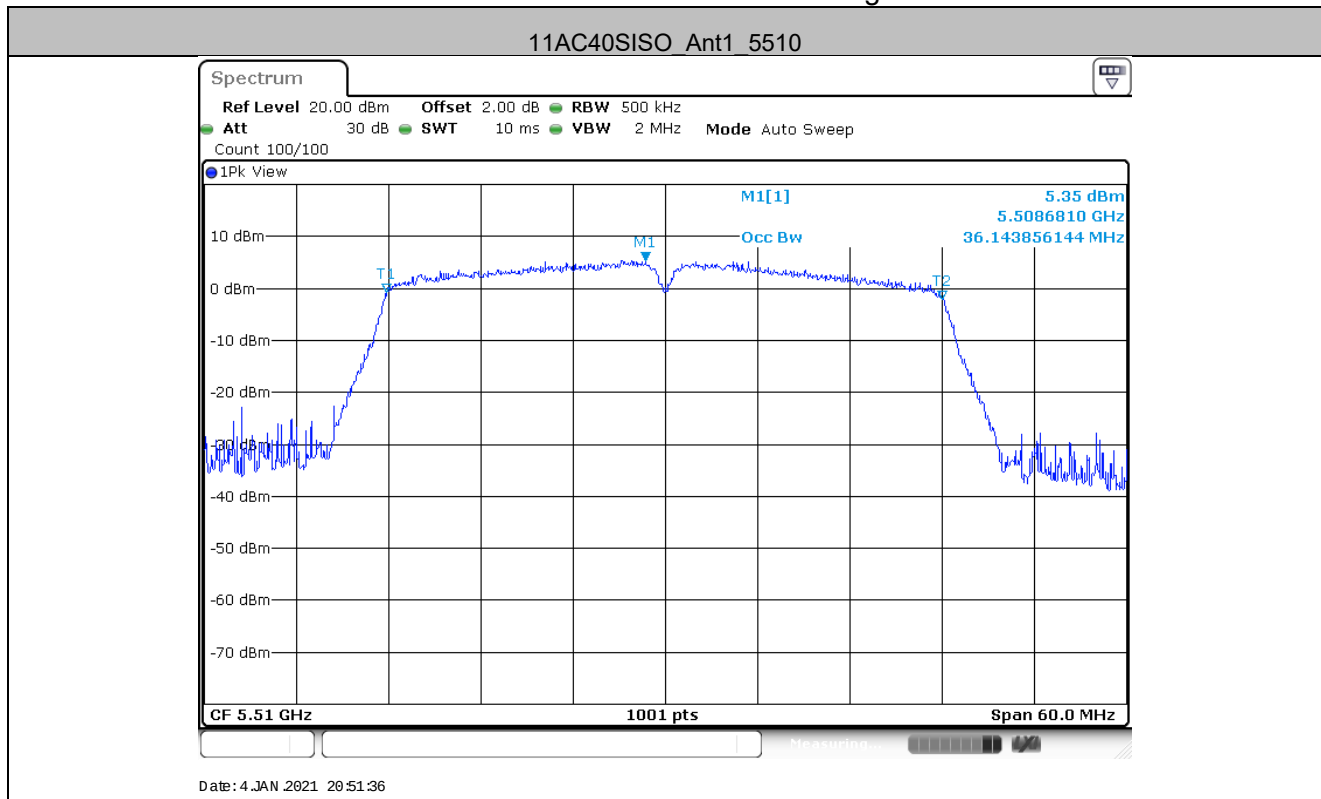


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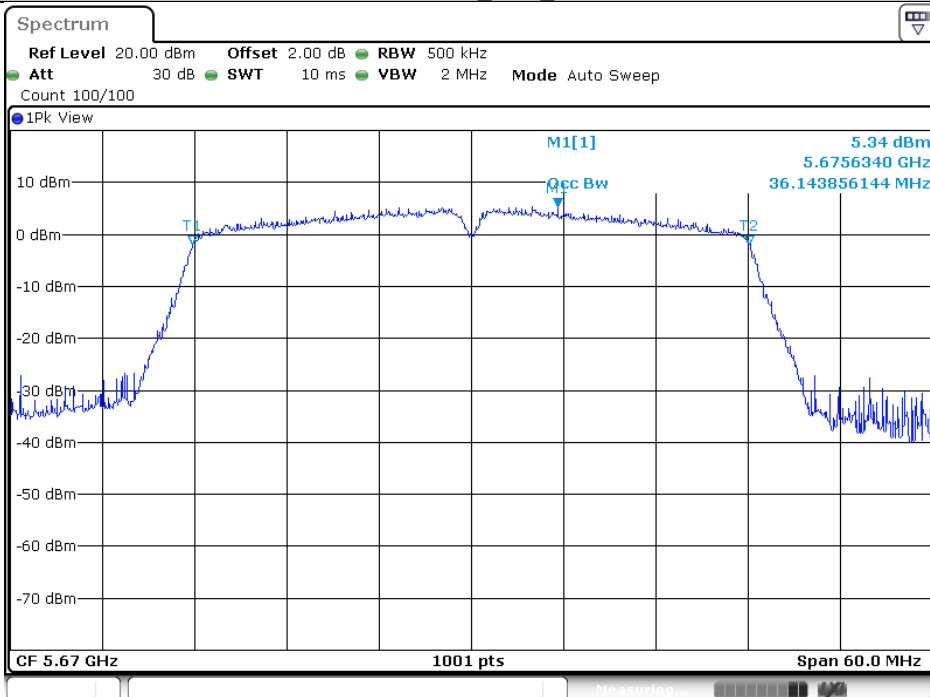
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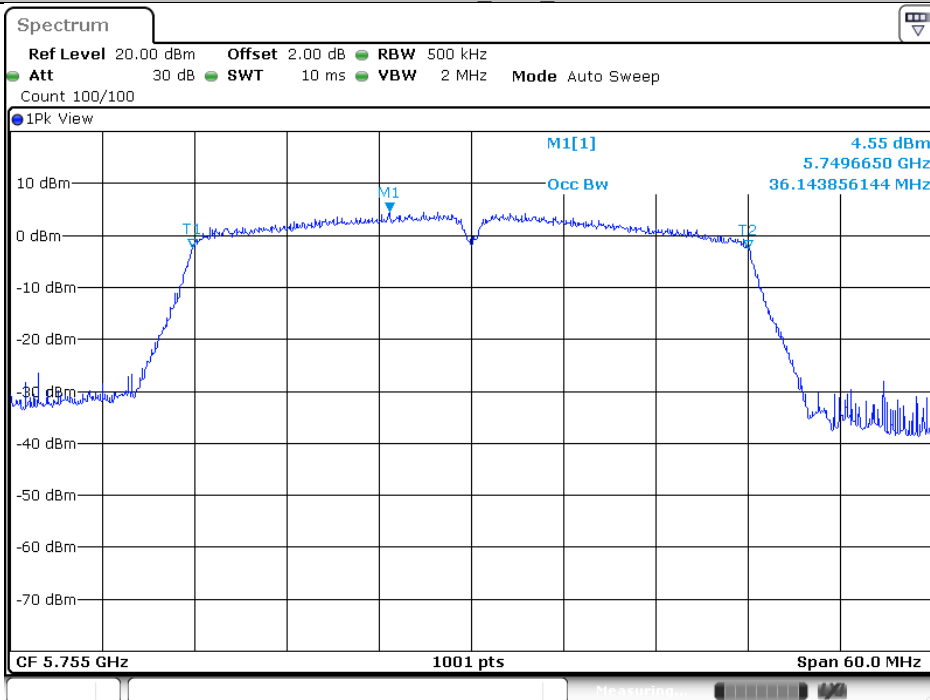
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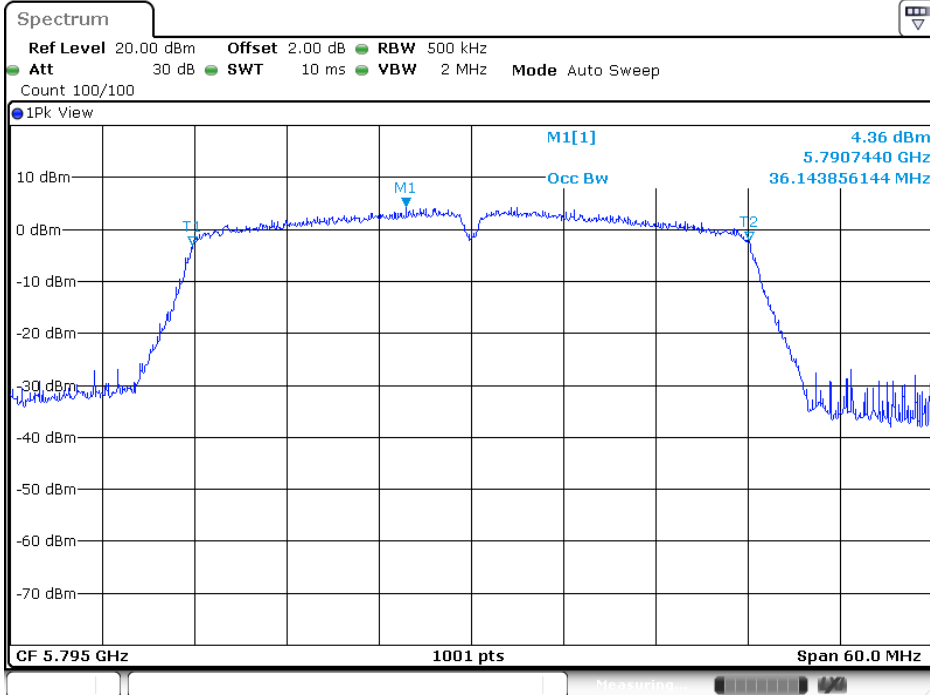
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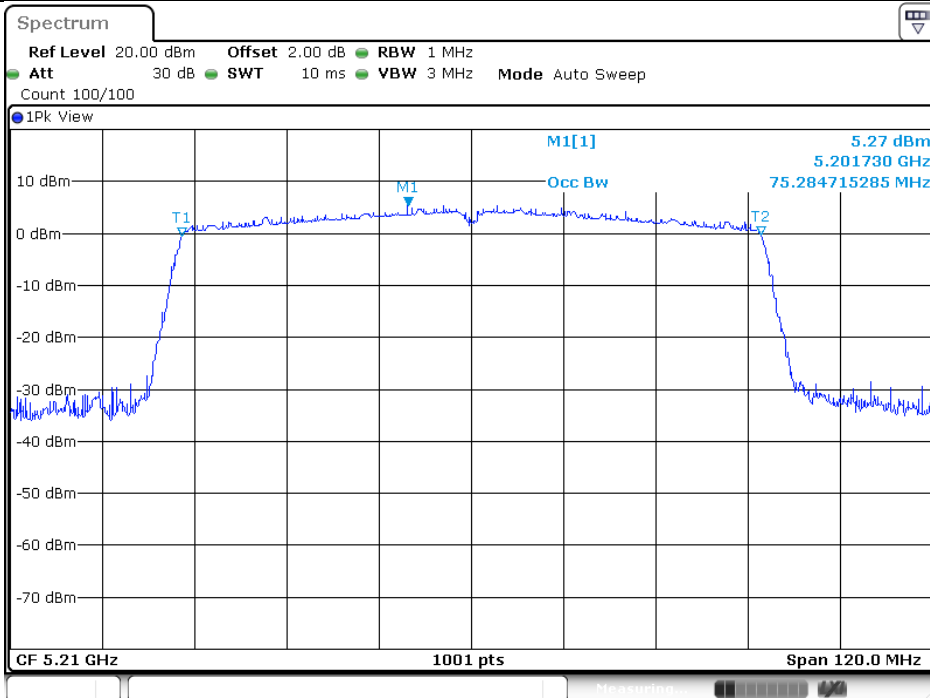
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11AC80SISO Ant1 5210



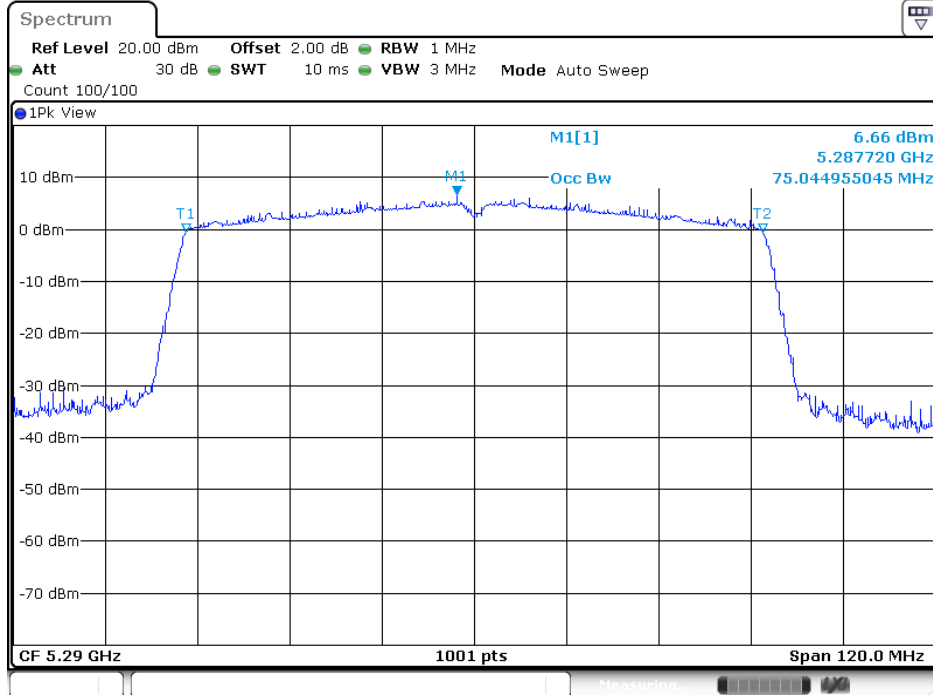
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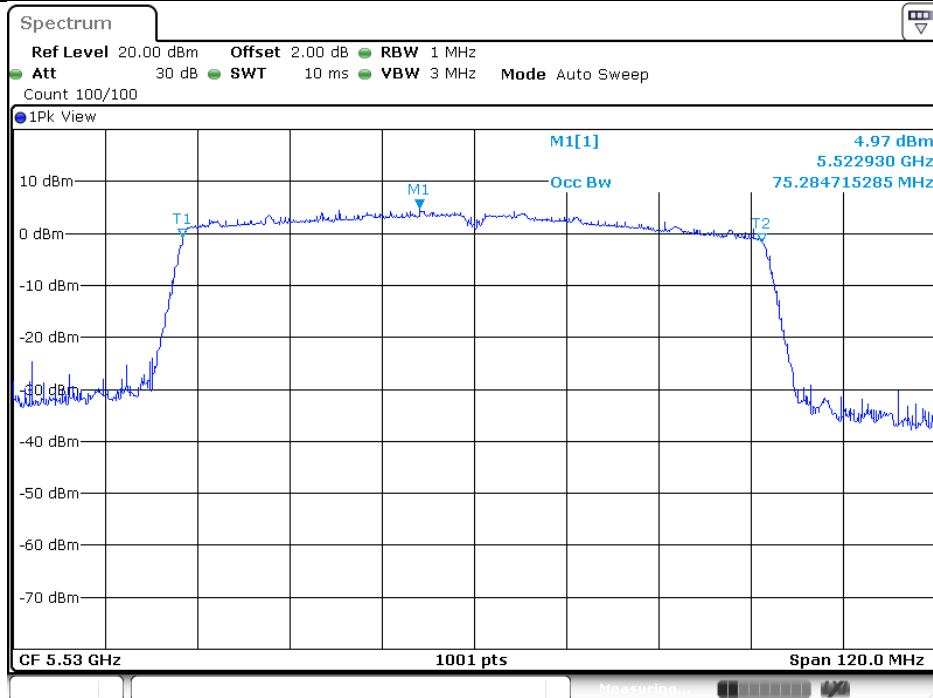
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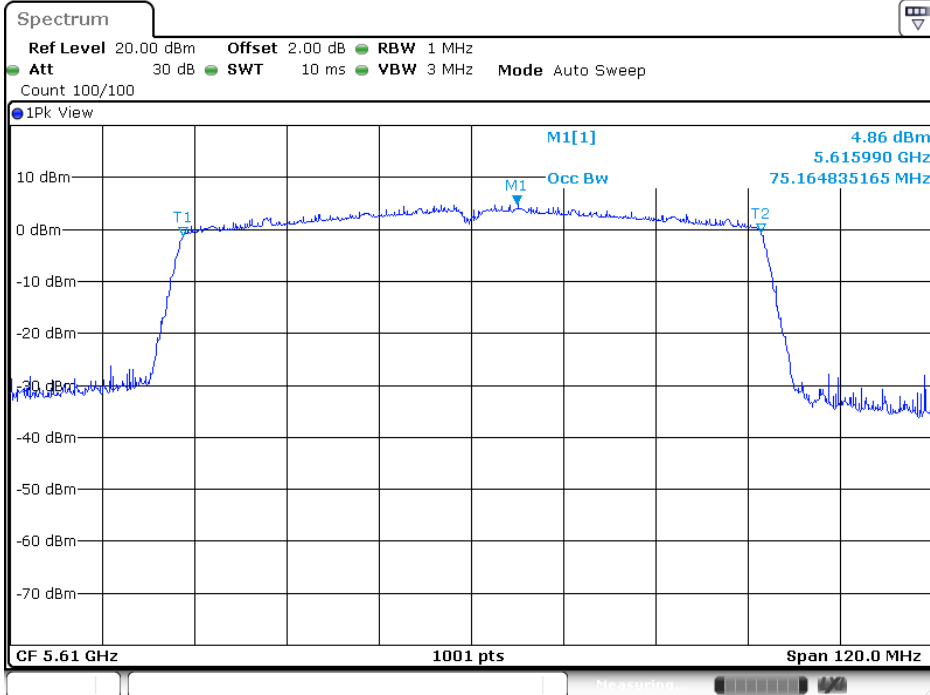
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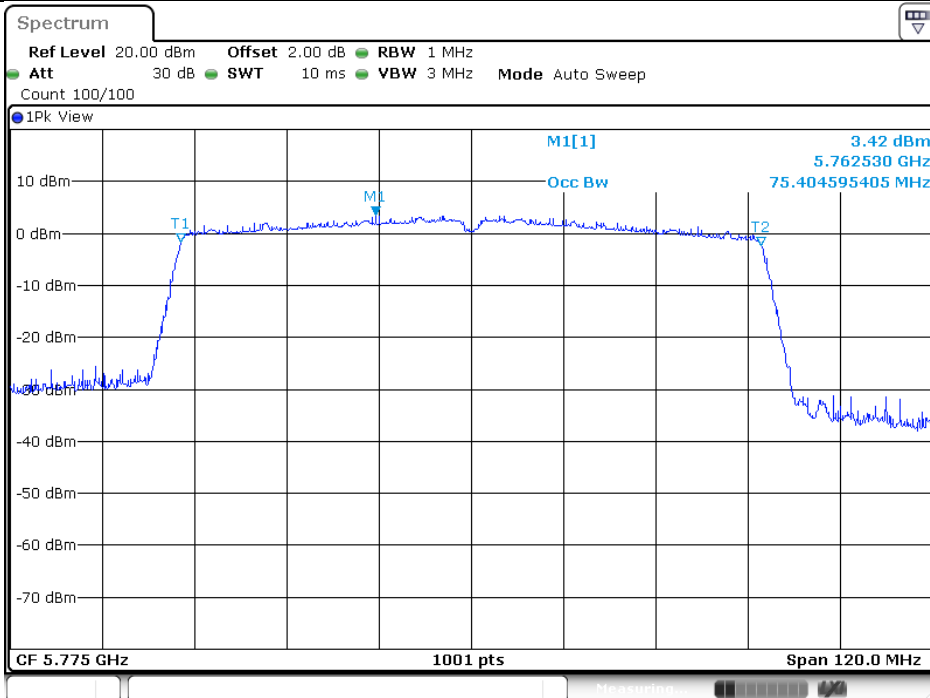
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6dB Emission Bandwidth Test Result

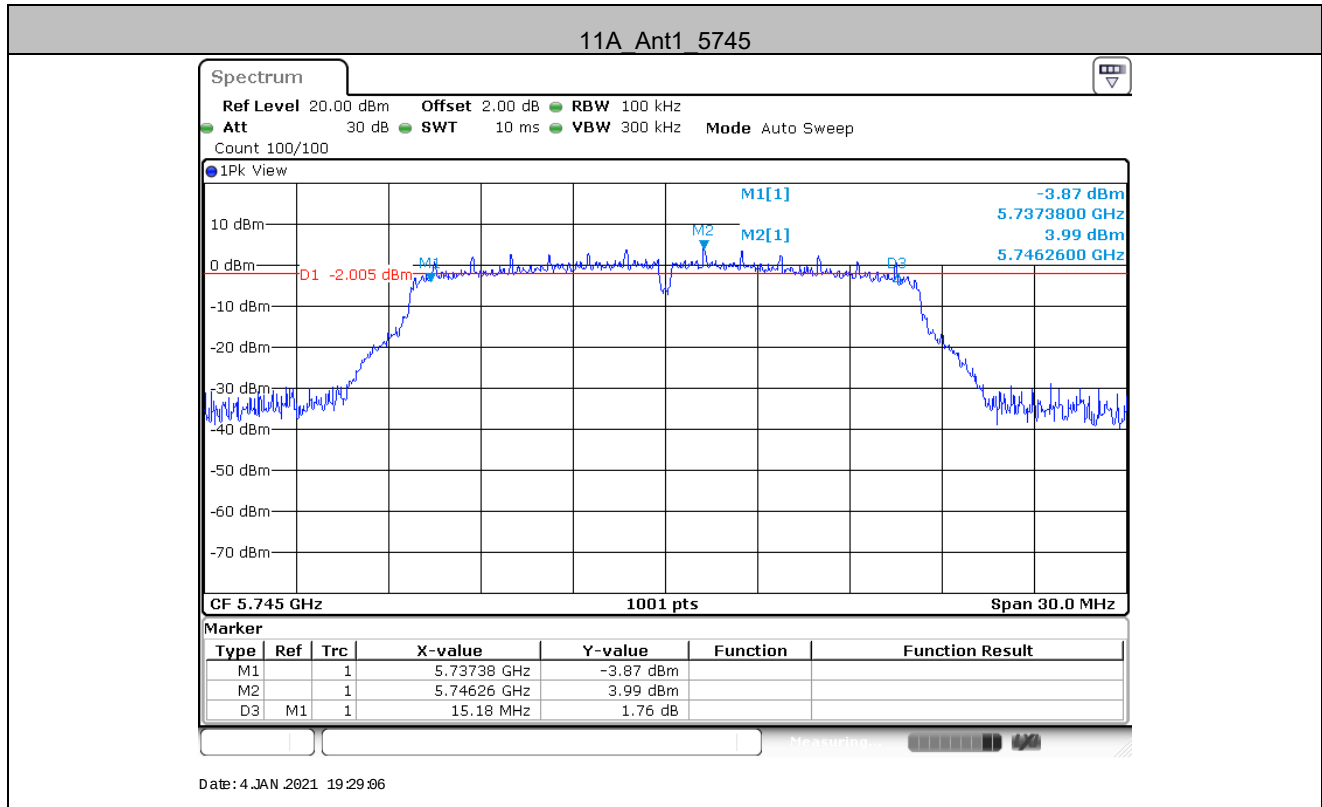
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.180	5737.380	5752.560	0.5	PASS
		5785	15.180	5777.410	5792.590	0.5	PASS
		5825	15.150	5817.410	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.360	5737.200	5752.560	0.5	PASS
		5785	15.180	5777.380	5792.560	0.5	PASS
		5825	15.180	5817.410	5832.590	0.5	PASS
11N40SISO	Ant1	5755	35.220	5737.360	5772.580	0.5	PASS
		5795	35.280	5777.360	5812.640	0.5	PASS
11AC20SISO	Ant1	5745	15.180	5737.380	5752.560	0.5	PASS
		5785	15.150	5777.410	5792.560	0.5	PASS
		5825	15.180	5817.410	5832.590	0.5	PASS
11AC40SISO	Ant1	5755	35.220	5737.360	5772.580	0.5	PASS
		5795	35.220	5777.360	5812.580	0.5	PASS
11AC80SISO	Ant1	5775	75.360	5737.320	5812.680	0.5	PASS



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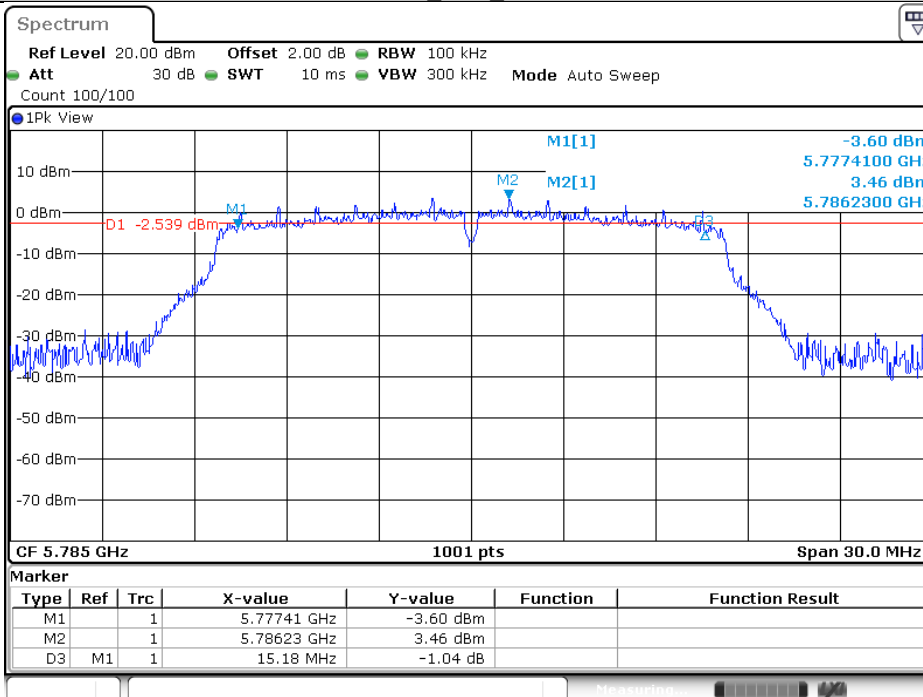
Test Graphs



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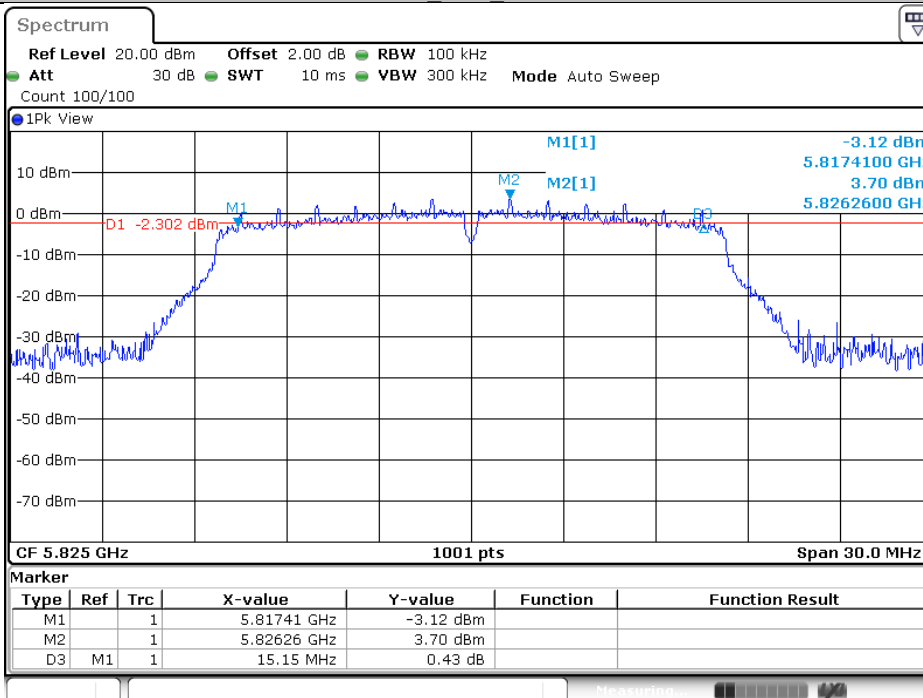
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11A Ant1 5785



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11A Ant1 5825



Date: 4 JAN 2021 19:32:20



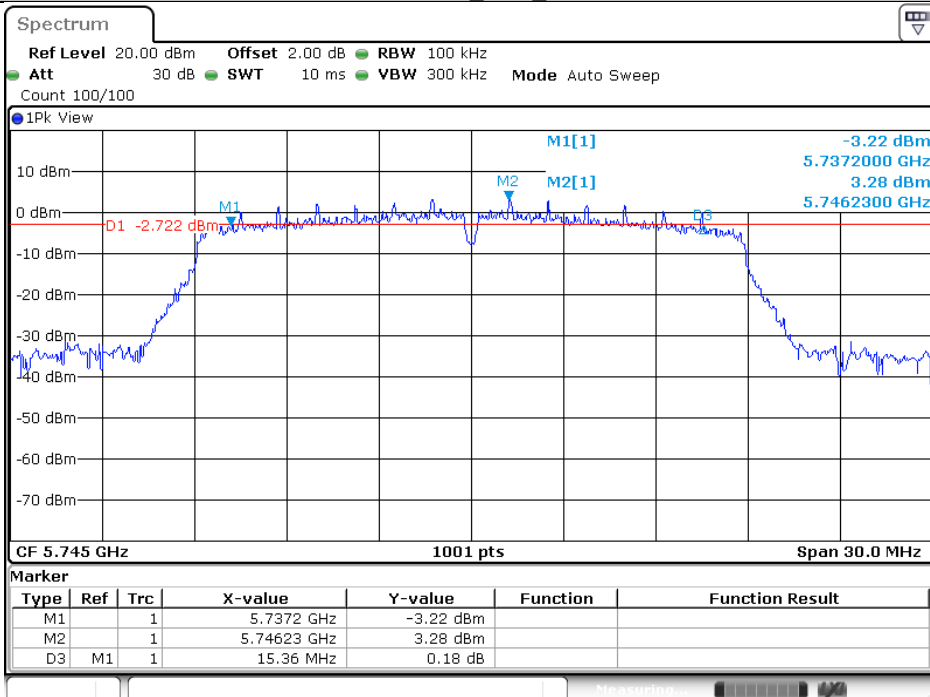
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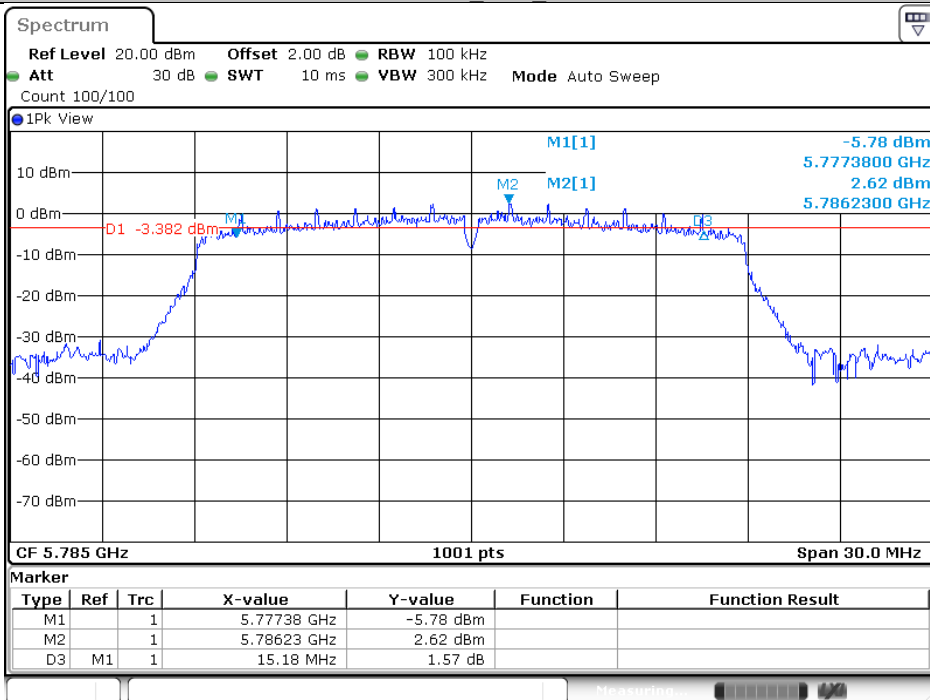
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11N20SISO Ant1 5745



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11N20SISO Ant1 5785



Date: 4 JAN 2021 20:57:53



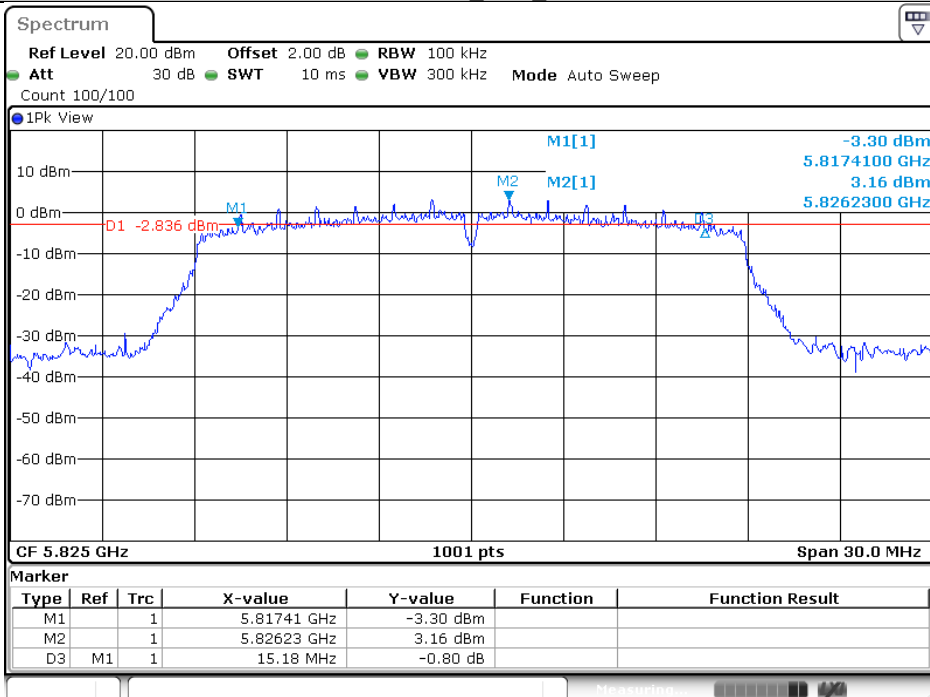
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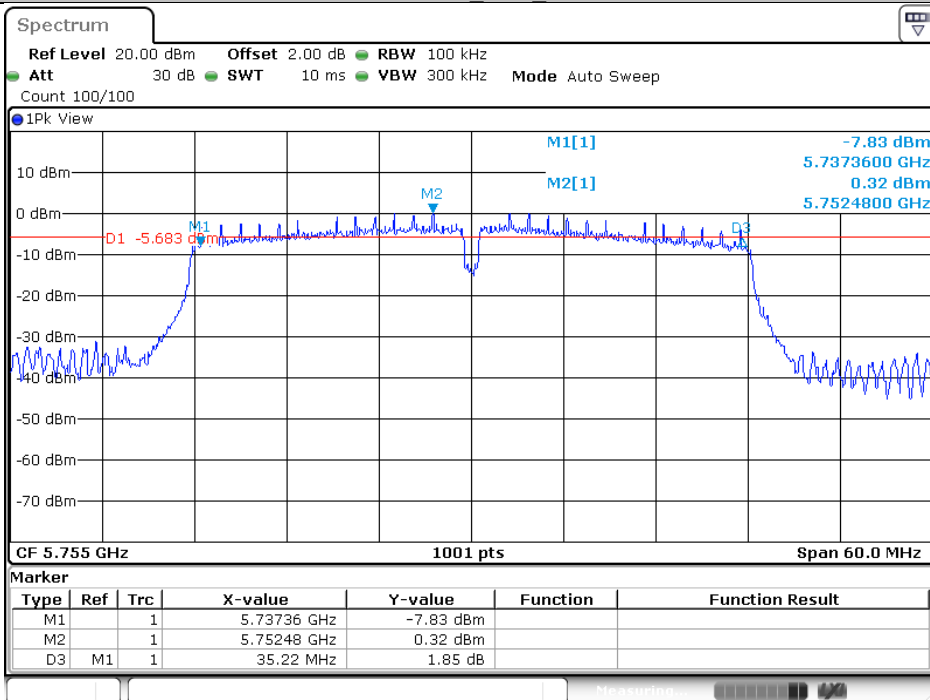
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Date: 4 JAN 2021 20:10:46

11N40SISO Ant1 5755



Date: 4 JAN 2021 20:42:53



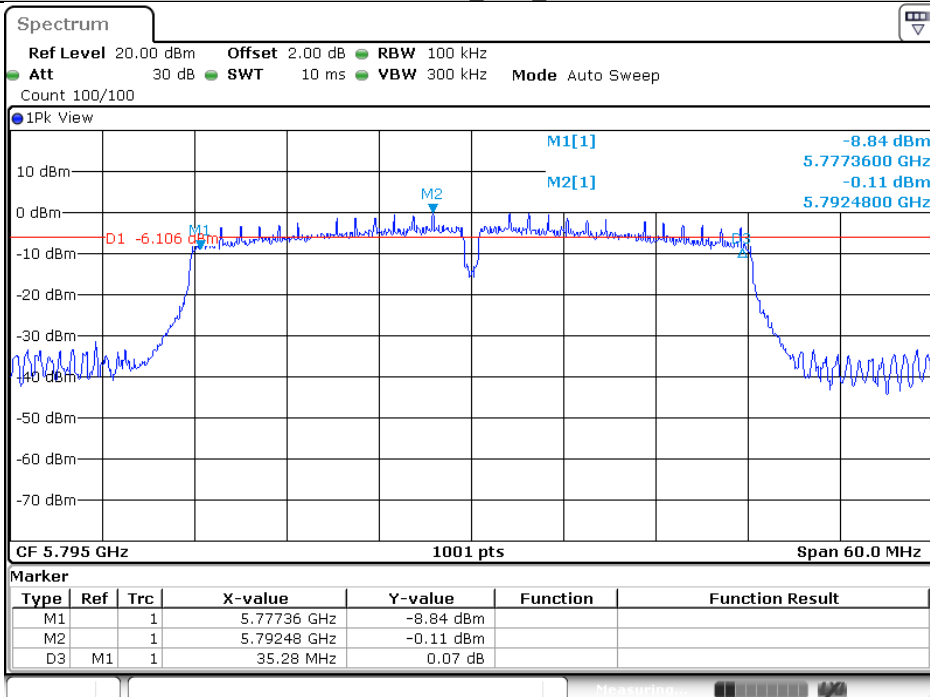
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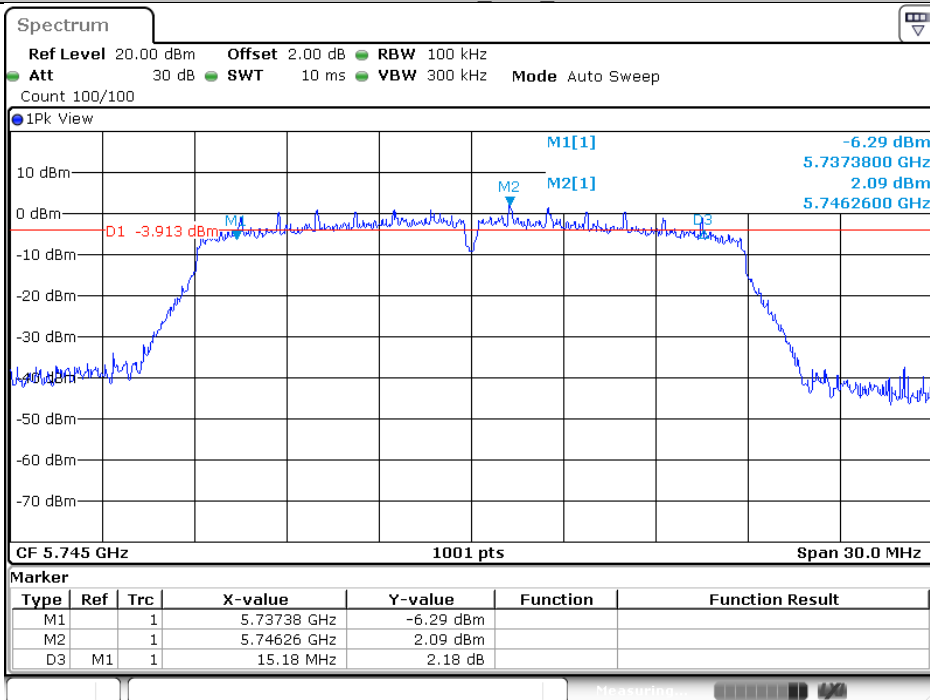
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11N40SISO Ant1 5795



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11AC20SISO Ant1 5745



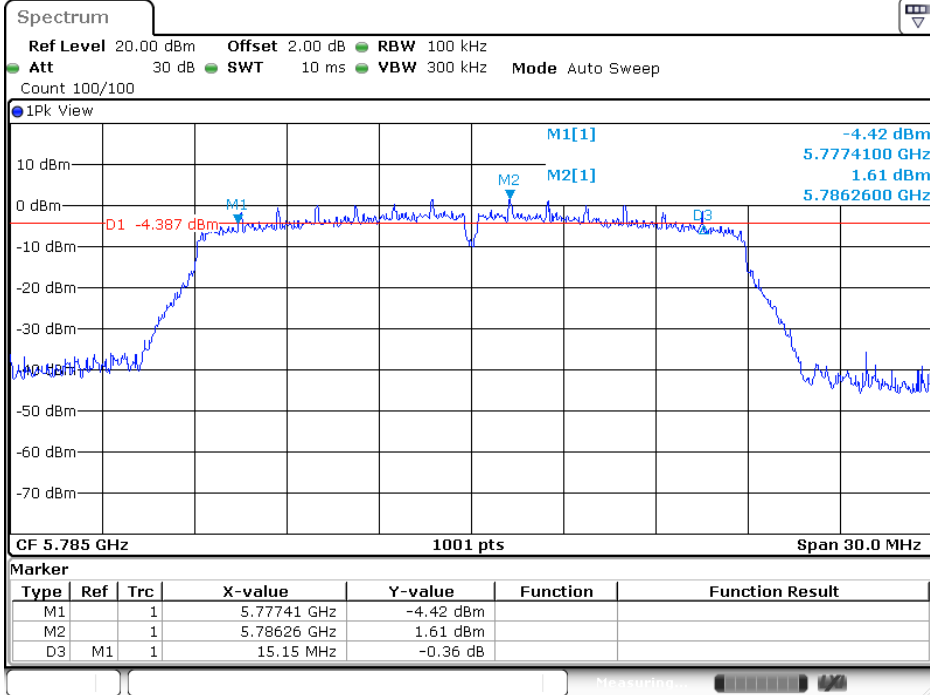
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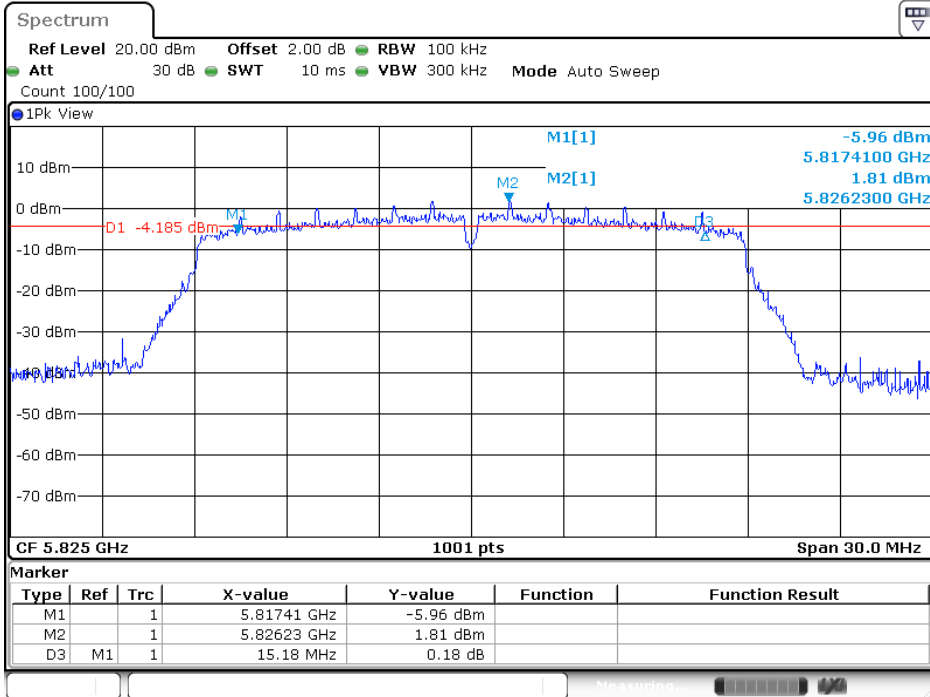
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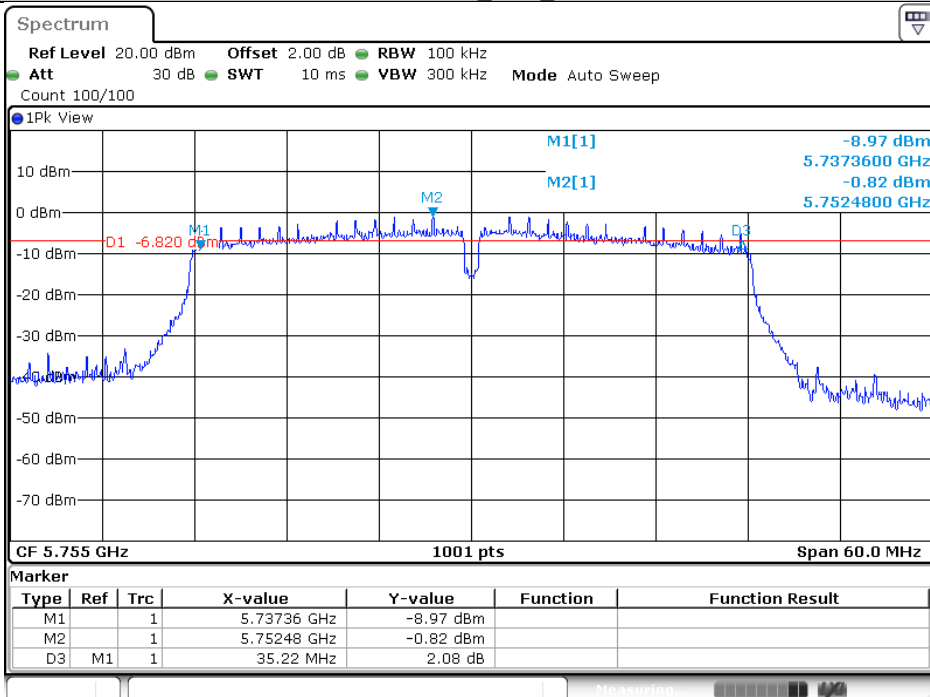
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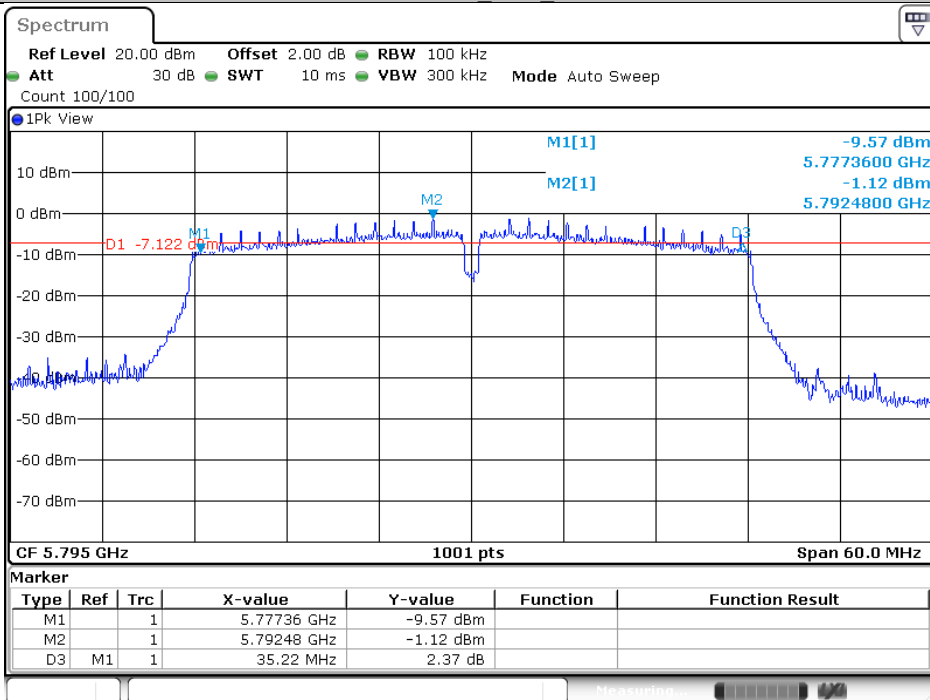
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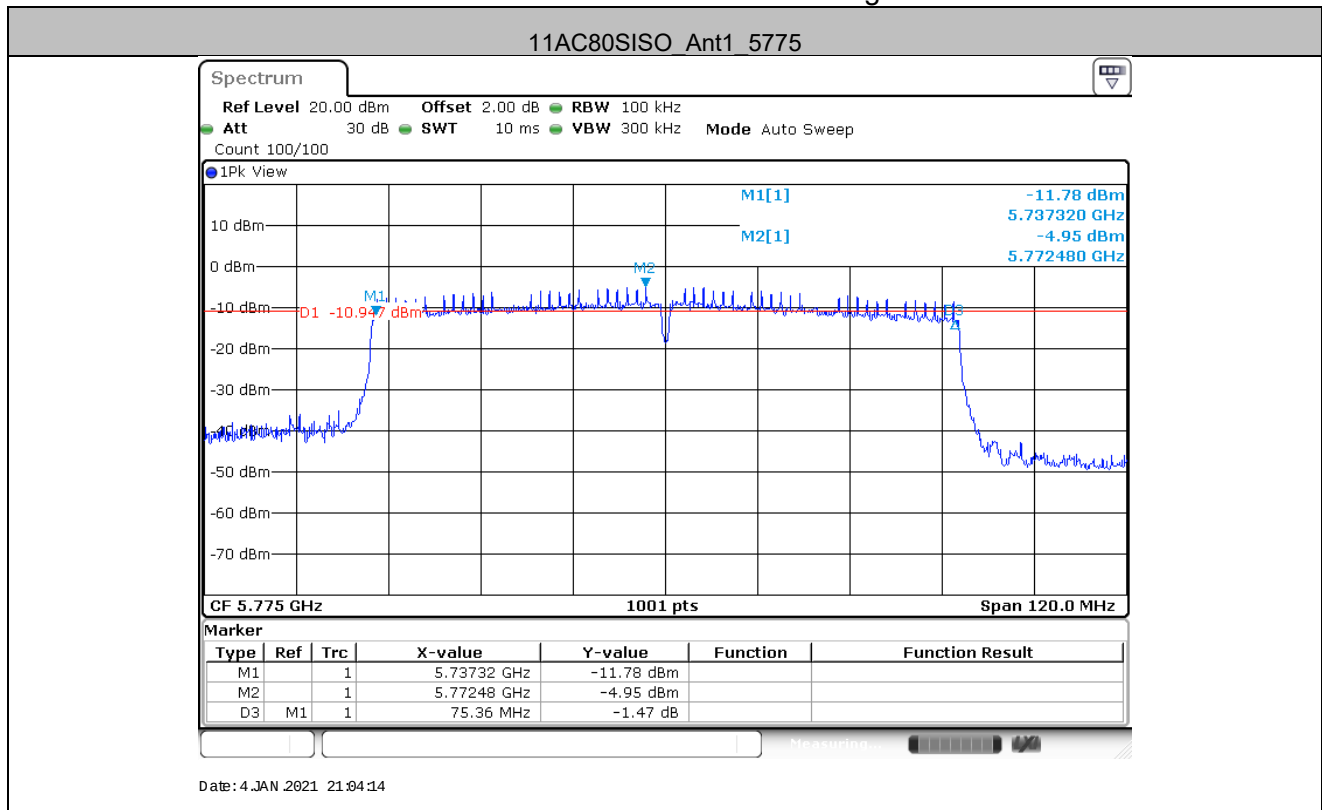


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Maximum conducted output power
Test Result

TestMode	Antenna	Channel	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP.) [dBm]	Verdict
11A	Ant1	5180	15.67	18.99	PASS
		5200	15.63	18.95	PASS
		5240	15.98	19.3	PASS
		5260	16.15	19.47	PASS
		5300	16.19	19.51	PASS
		5320	15.91	19.23	PASS
		5500	15.49	18.81	PASS
		5580	14.76	18.08	PASS
		5700	15.23	18.55	PASS
		5745	14.55	17.87	PASS
		5785	14.12	17.44	PASS
		5825	14.36	17.68	PASS
11N20SISO	Ant1	5180	14.42	17.74	PASS
		5200	14.48	17.8	PASS
		5240	14.86	18.18	PASS
		5260	15.00	18.32	PASS
		5300	14.80	18.12	PASS
		5320	14.56	17.88	PASS
		5500	14.46	17.78	PASS
		5580	13.48	16.8	PASS
		5700	13.98	17.3	PASS
		5745	13.98	17.3	PASS
		5785	13.25	16.57	PASS
		5825	13.70	17.02	PASS
11N40SISO	Ant1	5190	15.05	18.37	PASS
		5230	15.17	18.49	PASS
		5270	15.42	18.74	PASS
		5310	15.26	18.58	PASS



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		5510	14.71	18.03	PASS
		5550	14.05	17.37	PASS
		5670	14.59	17.91	PASS
		5755	13.48	16.8	PASS
		5795	13.22	16.54	PASS
11AC20SISO	Ant1	5180	13.94	17.26	PASS
		5200	13.93	17.25	PASS
		5240	14.18	17.5	PASS
		5260	14.34	17.66	PASS
		5300	14.32	17.64	PASS
		5320	13.98	17.3	PASS
		5500	13.70	17.02	PASS
		5580	12.86	16.18	PASS
		5700	13.44	16.76	PASS
		5745	12.54	15.86	PASS
		5785	12.10	15.42	PASS
		5825	12.35	15.67	PASS
11AC40SISO	Ant1	5190	12.76	16.08	PASS
		5230	12.94	16.26	PASS
		5270	12.20	15.52	PASS
		5310	13.03	16.35	PASS
		5510	12.35	15.67	PASS
		5550	11.83	15.15	PASS
		5670	12.40	15.72	PASS
		5755	12.31	15.63	PASS
		5795	12.14	15.46	PASS
11AC80SISO	Ant1	5210	12.84	16.16	PASS
		5290	13.19	16.51	PASS
		5530	12.10	15.42	PASS
		5610	12.21	15.53	PASS
		5775	11.26	14.58	PASS

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



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Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Verdict
11A	Ant1	5180	5.15	PASS
		5200	5.13	PASS
		5240	5.39	PASS
		5260	5.53	PASS
		5300	5.62	PASS
		5320	5.46	PASS
		5500	4.87	PASS
		5580	4.2	PASS
		5700	4.63	PASS
		5745	1.2	PASS
		5785	0.72	PASS
		5825	0.92	PASS
11N20SISO	Ant1	5180	3.75	PASS
		5200	3.8	PASS
		5240	4.04	PASS
		5260	4.23	PASS
		5300	4.09	PASS
		5320	3.91	PASS
		5500	3.68	PASS
		5580	2.74	PASS
		5700	3.35	PASS
		5745	0.4	PASS
		5785	-0.4	PASS
		5825	0.05	PASS
11N40SISO	Ant1	5190	1.58	PASS
		5230	1.73	PASS
		5270	2.01	PASS
		5310	1.89	PASS
		5510	1.37	PASS



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		5550	0.53	PASS
		5670	1.12	PASS
		5755	-2.95	PASS
		5795	-3.33	PASS
11AC20SISO	Ant1	5180	3.29	PASS
		5200	3.28	PASS
		5240	3.46	PASS
		5260	3.57	PASS
		5300	3.6	PASS
		5320	3.33	PASS
		5500	2.91	PASS
		5580	2.14	PASS
		5700	2.67	PASS
		5745	-1.02	PASS
		5785	-1.49	PASS
		5825	-1.21	PASS
11AC40SISO	Ant1	5190	-0.69	PASS
		5230	-0.56	PASS
		5270	-1.33	PASS
		5310	-0.32	PASS
		5510	-1.15	PASS
		5550	-1.65	PASS
		5670	-0.98	PASS
		5755	-4.11	PASS
		5795	-4.37	PASS
11AC80SISO	Ant1	5210	-3.81	PASS
		5290	-3.16	PASS
		5530	-4.41	PASS
		5610	-4.29	PASS
		5775	-8.41	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.



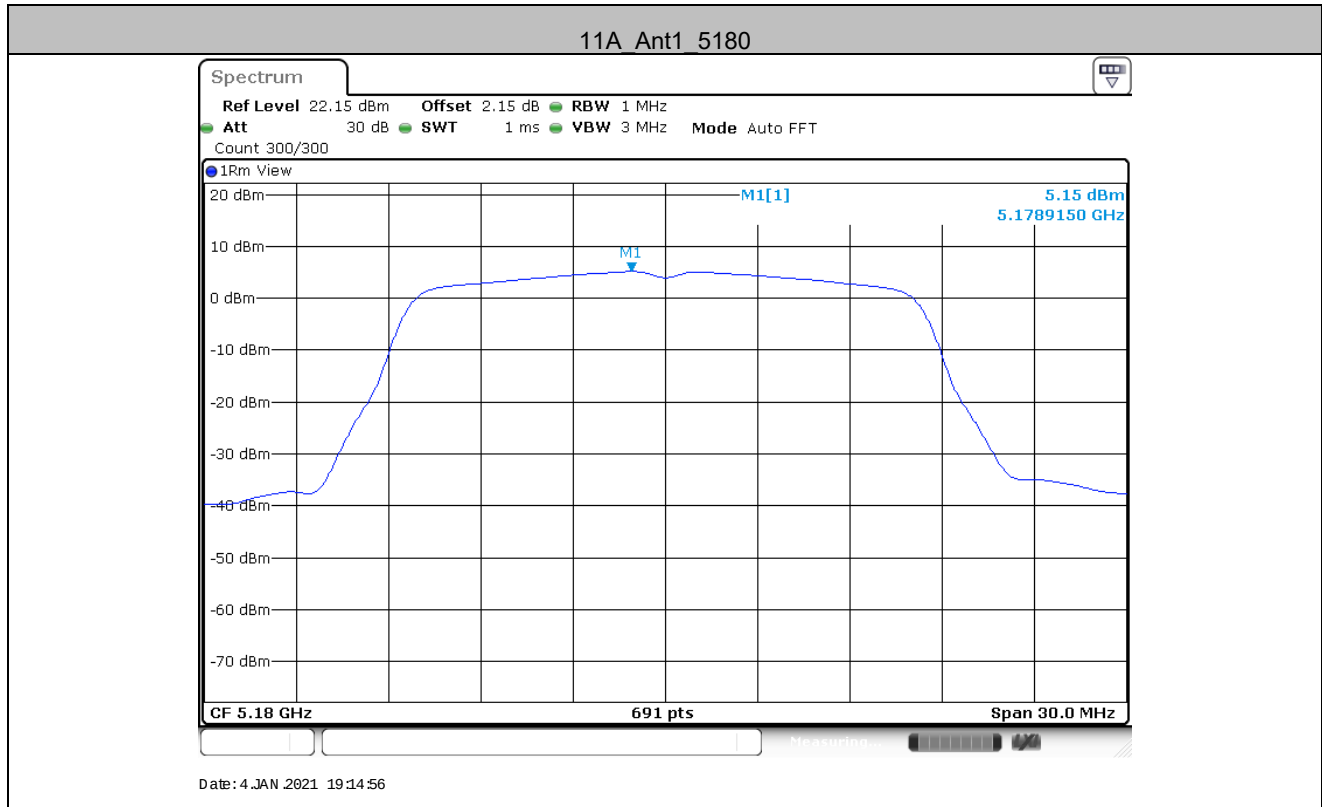
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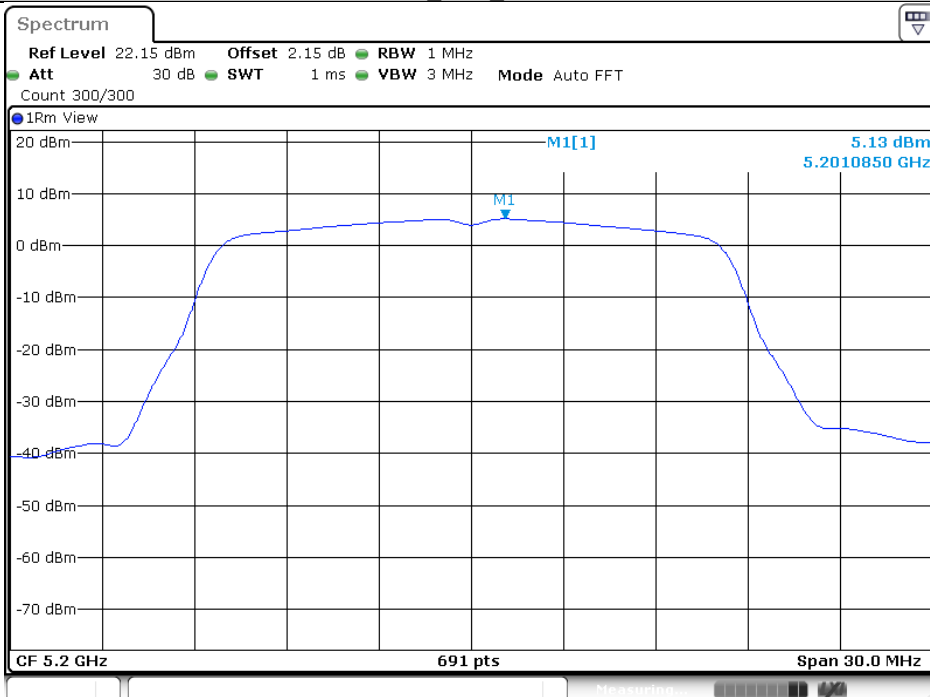
Test Graphs



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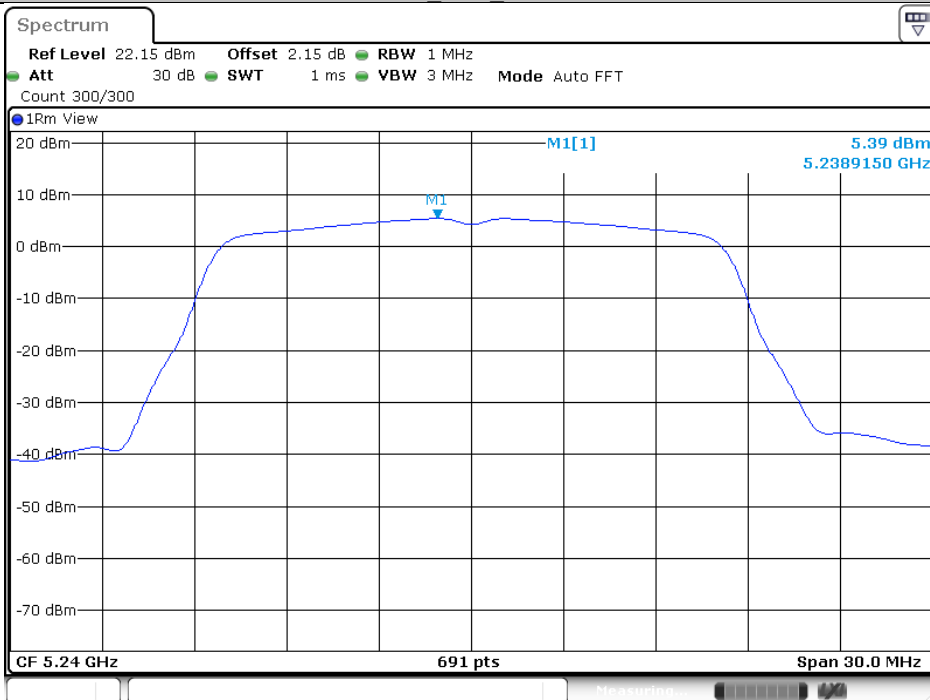
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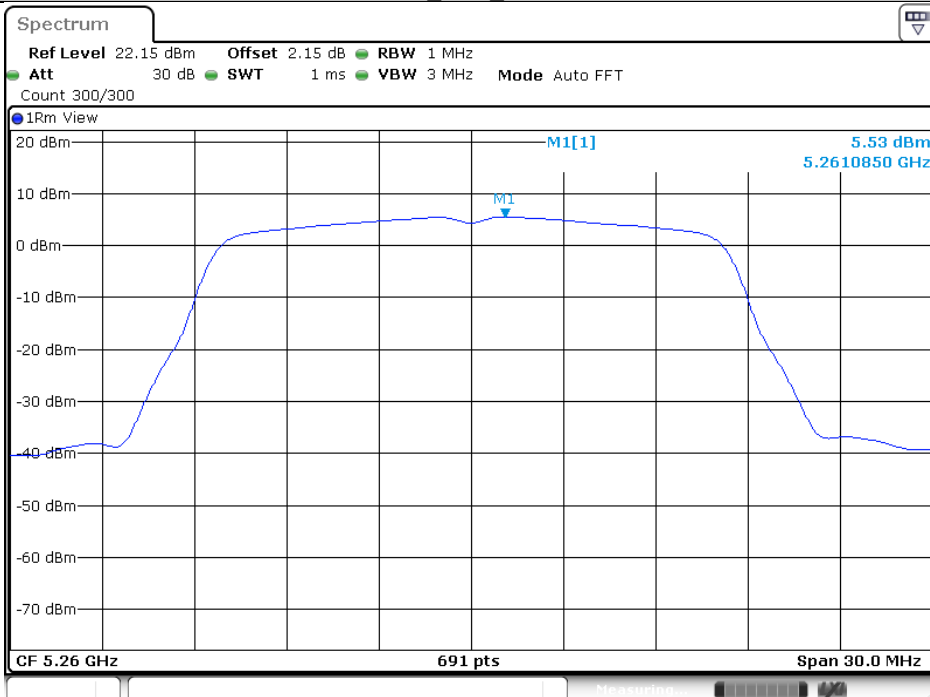
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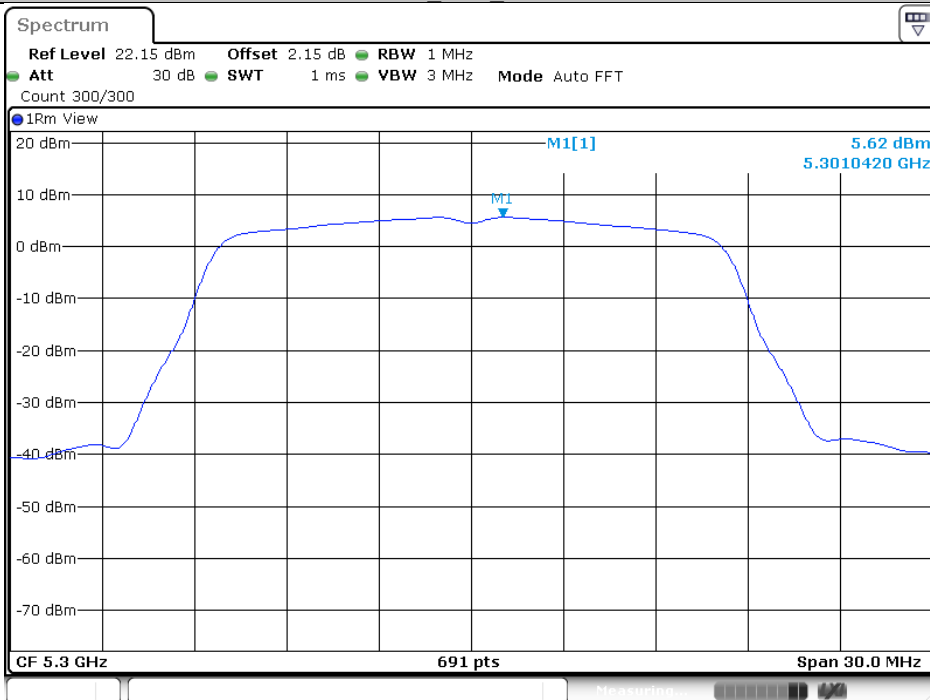
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11A Ant1 5260



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11A Ant1 5300



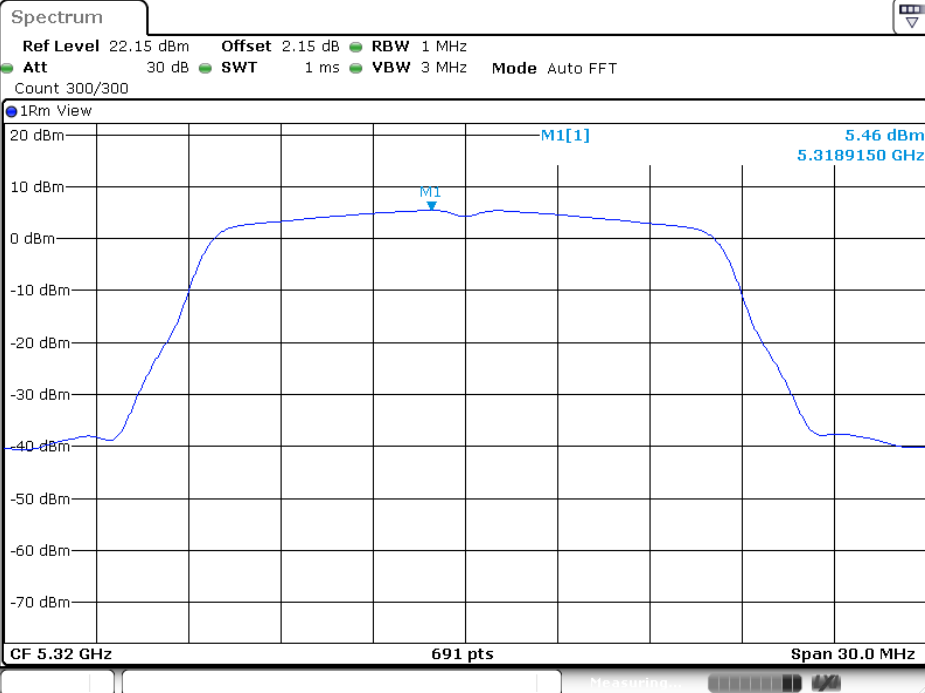
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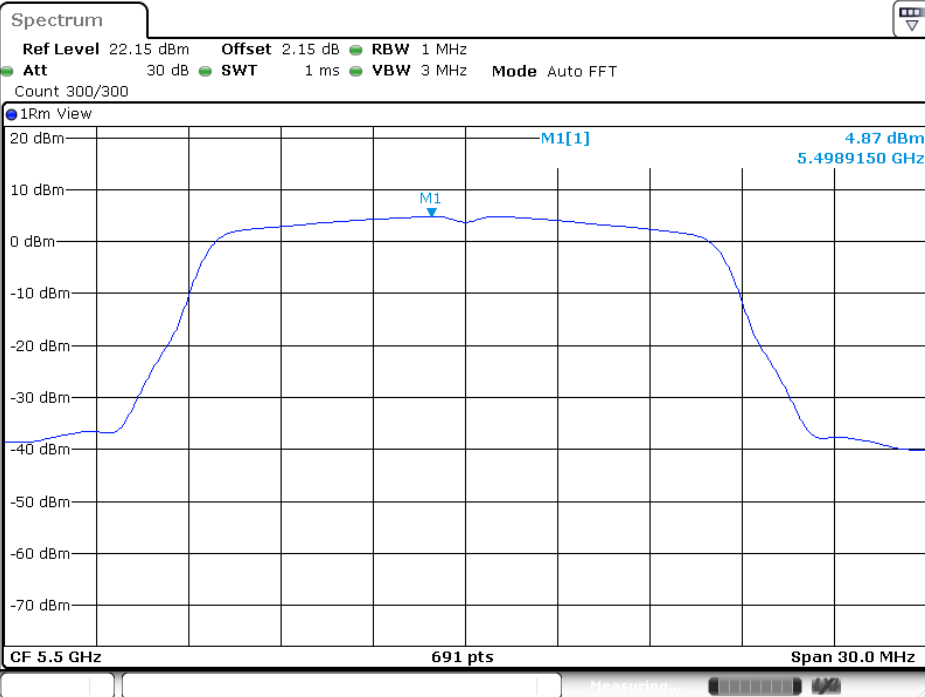
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