FCC - TEST REPORT

Report Number	:	**68.950.23.0882.01**	Date of Issue:	**2023-11-06**
Model	:	**NPG-001, HP52A, HP52AX, NPG01ASTB**		
Product Name	:	Playground		
Applicant	:	Shenzhen Skyworth Digital Technology Co., LTD.		
Address	:	14/F, Unit A, Skyworth Building, Gaoxin Ave.1.S., Nanshan District, 518063 Shenzhen, PEOPLE'S REPUBLIC OF CHINA		
Manufacturer	:	Shenzhen Skyworth Digital Technology Co., LTD.		
Address	:	14/F, Unit A, Skyworth Building, Gaoxin Ave.1.S., Nanshan District, 518063 Shenzhen, PEOPLE'S REPUBLIC OF CHINA		
Test Result	:	■ **Positive** ☐ **Negative**		
Total pages including Appendices	:	**428**		

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1 Table of Contents

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2 Details about the Test Laboratory

Details about the Test Laboratory
Test Site 1

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China
Telephone:	86 755 8828 6998
Fax:	86 755 8828 5299
FCC Registration No.:	514049
FCC Designation Number:	CN5009
IC Registration No.:	10320A

3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product:	Playground
Model no.:	NPG-001, HP52A, HP52AX, NPG01ASTB
FCC ID:	WNA-NPG-001
Options and accessories:	Adapter, HDMI Cable, Remote
Rating:	5VDC, 3A supplied by external adapter
Adapter information:	Adapter Model: AD-0150500300US-1 Input: 100-240VAC 50/60Hz, 0.5A, Output: 5VDC, 3.0A 15.0W
Remote information:	Type name: Bluetooth voice remote control Model: NPG-RCU-001 FCC ID: 2A7GQ-NPG-RCU-001
RF Transmission Frequency:	5.150GHz~5.250GHz 5.250GHz~5.350GHz 5.470GHz~5.725GHz 5.725GHz~5.850GHz
Modulation:	802.11a: BPSK, QPSK, 16QAM, 64QAM 802.11n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM
Antenna Type:	PCBA antenna
Antenna 1	1.7dBi
Antenna 2	1.7dBi
Description of the EUT:	The EUT is a playground with Bluetooth Low Energy/Bluetooth BDR+EDR, 2.4G Wi-Fi & 5G Wi-Fi functions. Only 5G Wi-Fi included in this report.

NOTE 1: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
NOTE 2: The device shall not be capable of transmitting in the band 5600-5650MHz.

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4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart E, 10-1-2021 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart E - Unlicensed National Information Infrastructure Devices

Test Method:
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
KDB 905462 D03 Client Without DFS New Rules v01r02
KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

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5 Summary of Test Results

Technical Requirements				
FCC Part 15 Subpart E, FCC Part 15 Subpart C				
Test Condition	Test Site	Test Result		
		Pass	Fail	N/A
15.207 Conducted Emission AC Power Port	Site 1	☒	☐	☐
15.403(a)(5) Emission bandwidth	Site 1	☒	☐	☐
15.407(a)(1) 15.407(a)(3) Maximum Conducted Output Power	Site 1	☒	☐	☐
15.407(a)(1) 15.407(a)(3) Peak Power Spectral Density	Site 1	☒	☐	☐
15.407(b)(1) 15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209 Unwanted Emissions	Site 1	☒	☐	☐
Duty Cycle	Site 1	☒	☐	☐
15.407(g) Frequencies Stability	Site 1	☒	☐	☐
15.407(h) Dynamic Frequency Selection (DFS).	Site 1	☒	☐	☐
15.203 Antenna requirement	See NOTE 2	☒	☐	☐

NOTE 1: The EUT operate as Clients Device without Radar Detection.
NOTE 2: The EUT uses a PCBA antenna, which gain Ant2 = 1.7dBi, Ant2 = 1.7dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.

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6 General Remarks

Remarks
This submittal(s) (test report) is intended for FCC ID: WNA-NPG-001, complies with Section 15.207, 15.209, 15.407 of the FCC Part 15, Subpart E rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

☐ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

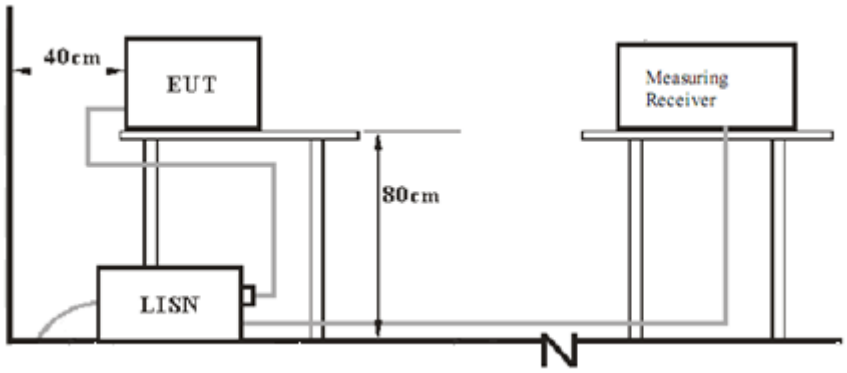
Sample Received Date:	2023-10-23
Testing Start Date:	2023-10-23
Testing End Date:	2023-11-06

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch –

Reviewed by:	Prepared by:	Tested by:
John Zhi	Sanvin Zheng	Carry Cai
Project Manager	Project Engineer	Test Engineer

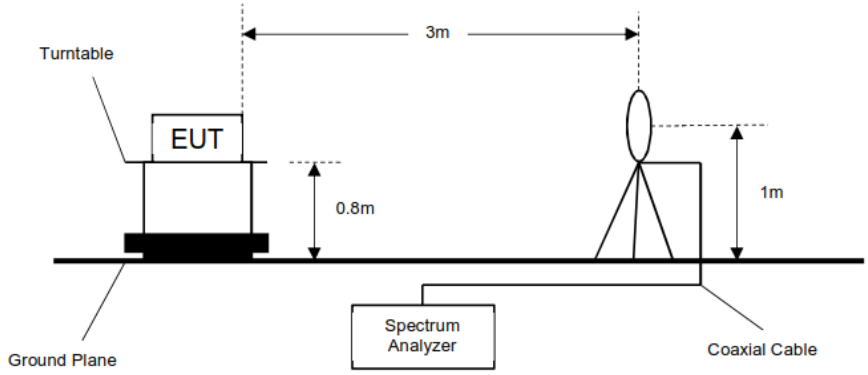
7 Test setups

7.1 AC Power Line Conducted Emission test setups

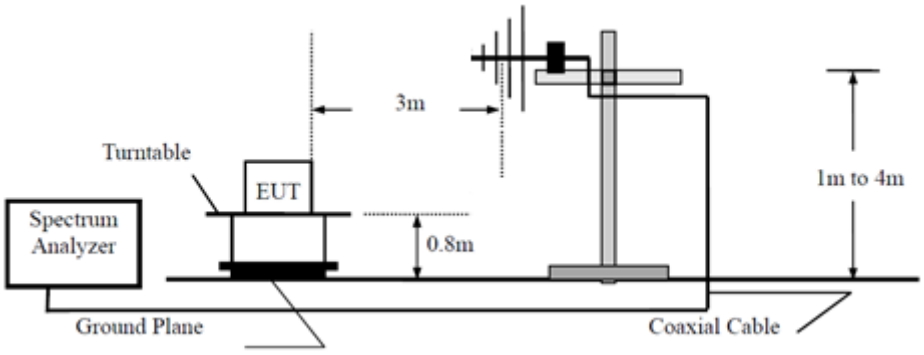


7.2 Radiated test setups

9kHz - 30MHz



30MHz - 1GHz



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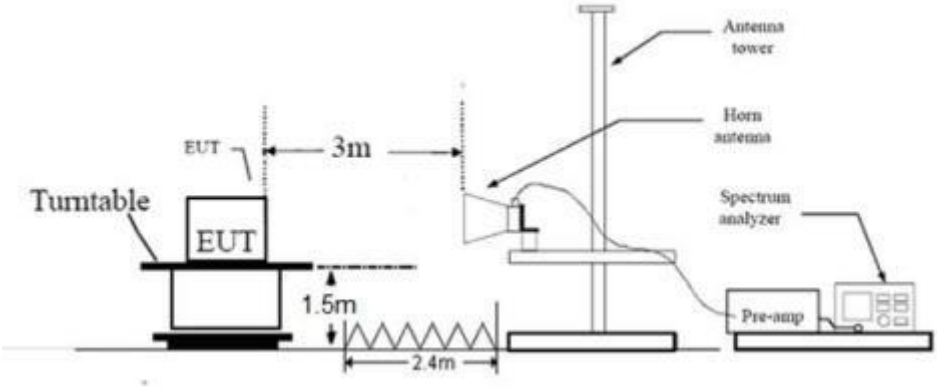
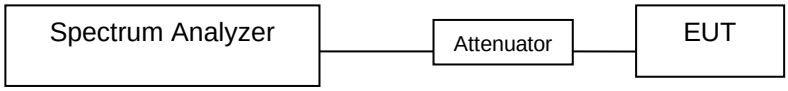
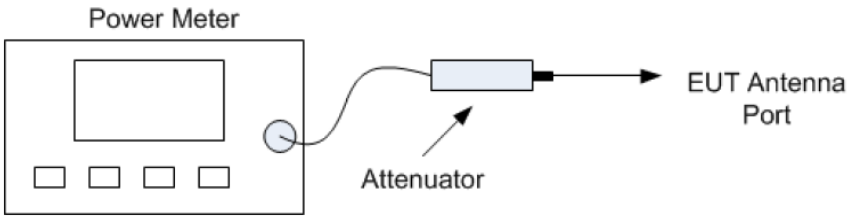
Above 1GHz



7.3 Conducted RF test setups





Power meter conducted test setup

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8. Systems Test Configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model No.	Remark
Notebook	Lenovo	X220	---
Remote	Wuxi Weida Intelligent Electronics	NPG-RCU-001	Type name: Bluetooth voice remote control FCC ID: 2A7GQ-NPG-RCU-001
Router	ZTE	ZXHN F670	---

Cables Used During Test:

Cable	Length	Shielded/unshielded	With / without ferrite
HDMI Cable	150cm	Shielded	Without ferrite
Type-C Cable	100cm	Unshielded	Without ferrite

In order to find the worst case condition, pre-tests are needed at the presence of different date rate. Preliminary tests have been done on all the configuration for confirming worst case. Date rate below means worst-case rate of each test item.

Band	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS8
802.11n HT40	MCS8
802.11ac HT20	MCS0
802.11ac HT40	MCS0
802.11ac HT80	MCS0

The system was configured to channel:

Test Mode	**Channel (MHz)**		
802.11a, 802.11n HT20 802.11ac VHT20	5G WIFI_U-NII-1		
	CH36 (5180MHz)	CH40 (5200MHz)	CH48 (5240MHz)
	5G WIFI_U-NII-2A		
	CH52 (5260MHz)	CH56 (5280MHz)	CH64 (5320MHz)
	5G WIFI_U-NII-2C		
	CH100 (5500MHz)	CH116 (5580MHz)	CH140 (5700MHz)
	CH144 (5720MHz)		
	5G WIFI_U-NII-3		
	CH149 (5745MHz)	CH157(5785MHz)	CH165 (5825MHz)

Test Mode	Channel (MHz)		
802.11n HT40 802.11ac VHT40	5G WIFI_U-NII-1		
	CH38(5190MHz)	CH46 (5230MHz)	
	5G WIFI_U-NII-2A		
	CH54(5270MHz)	CH62(5310MHz)	
	5G WIFI_U-NII-2C		
	CH102(5510MHz)	CH110(5550MHz)	CH134(5670MHz)
	CH 142 (5710MHz)		
	5G WIFI_U-NII-3		
	CH151(5755MHz)	CH159(5795MHz)	

Test Mode	Channel (MHz)	
802.11ac VHT80	5G WIFI_U-NII-1	
	CH42(5210MHz)	
	5G WIFI_U-NII-2A	
	CH58(5290MHz)	
	5G WIFI_U-NII-2C	
	CH106(5530MHz)	CH138(5690MHz)
	5G WIFI_U-NII-3	
	CH155(5775MHz)	

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9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

Limit

According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dBµV	AV Limit dBµV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Remark: “*” Decreasing linearly with logarithm of the frequency

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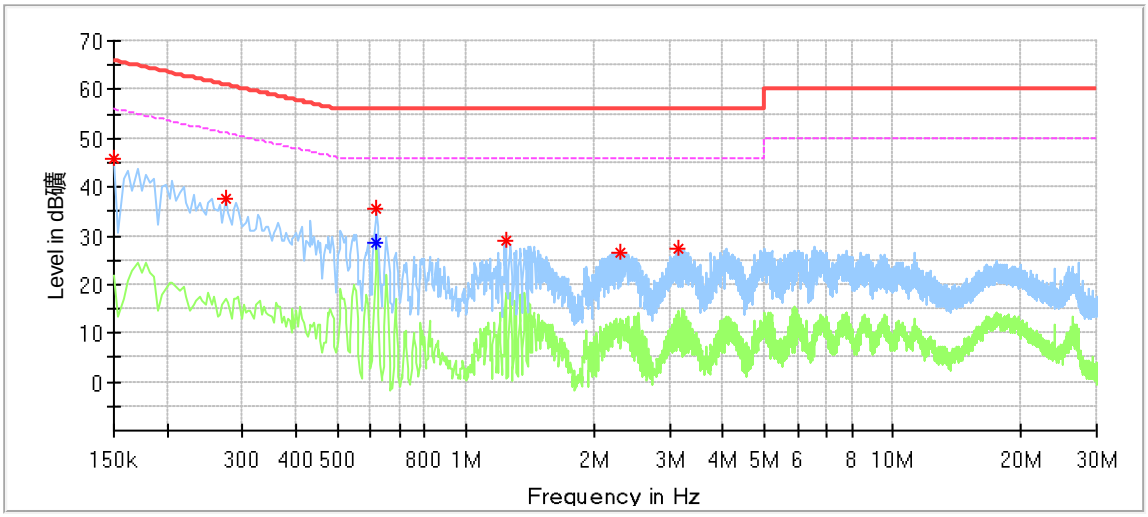
Conducted Emission

Product Type	:	Playground
M/N	:	NPG-001
Operating Condition	:	Transmitting mode
Test Specification	:	Line
Comment	:	AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	45.91	---	66.00	20.09	L1	9.52
0.274000	37.48	---	61.00	23.51	L1	9.56
0.618000	35.55	---	56.00	20.45	L1	9.60
0.618000	---	28.61	46.00	17.39	L1	9.60
1.238000	28.99	---	56.00	27.01	L1	9.60
2.290000	26.62	---	56.00	29.38	L1	9.63
3.162000	27.33	---	56.00	28.67	L1	9.66

Remark:
Max Peak/ Average=Reading Level + Correction Factor
Correction Factor=Cable Loss + LISN Factor
(The Reading Level is recorded by software which is not shown in the sheet)

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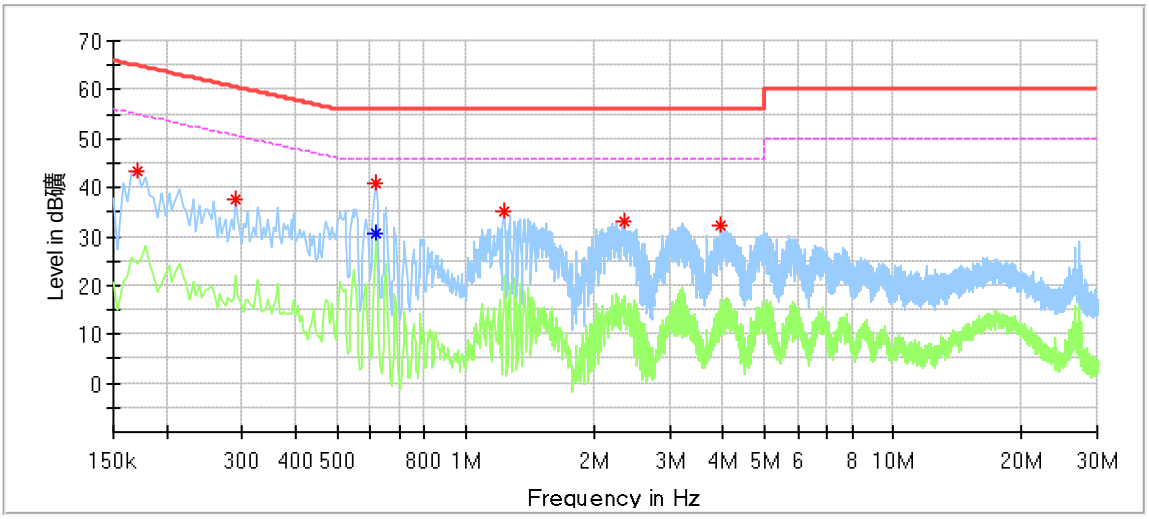
Conducted Emission

Product Type : Playground
M/N : NPG-001
Operating Condition : Transmitting mode
Test Specification : Neutral
Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.170000	43.26	---	64.96	21.70	N	9.57
0.290000	37.69	---	60.52	22.83	N	9.60
0.618000	---	30.49	46.00	15.51	N	9.63
0.618000	40.91	---	56.00	15.09	N	9.63
1.234000	34.97	---	56.00	21.03	N	9.63
2.362000	33.16	---	56.00	22.84	N	9.66
3.946000	32.19	---	56.00	23.81	N	9.73

Remark:
Max Peak/ Average=Reading Level + Correction Factor
Correction Factor=Cable Loss + LISN Factor
(The Reading Level is recorded by software which is not shown in the sheet)

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9.2 Emission Bandwidth

The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.

1、Test Method of 26dB Bandwidth

According to KDB789033 D02
a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Limit: No limit

2、Test Method of 6dB Bandwidth

According to KDB789033 D02
a) Set center frequency to the nominal EUT channel center frequency
b) Set RBW = 100KHz
c) Set the video bandwidth (VBW) ≥ 3 × RBW
d) Detector = Peak.
e) Trace mode = max hold.
f) Sweep = No faster than coupled (auto) time.
g) Allow the trace to stabilize.
h) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Limit: ≥500KHz

3、Test Method of 99% Bandwidth

According to KDB789033 D02
a) Set center frequency to the nominal EUT channel center frequency
b) Set span = 1.5 times to 5.0 times the OBW.
c) Set RBW = 1 % to 5 % of the OBW
d) Set VBW ≥ 3 · RBW
e) Trace mode = max hold.
f) Sweep = auto couple.
g) Allow the trace to stabilize.
h) Use the 99 % power bandwidth function of the instrument.
i) Record the results in the test report.
Limit: No limit

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Test result as below table:

IEEE 802.11a modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)		Measured 26dB Bandwidth (MHz)		Measured 6dB Bandwidth (MHz)	
			Ant1	Ant2	Ant1	Ant2	Ant1	Ant2
U-NII-1	Low	5180	16.623	16.863	18.440	20.480	N/A	N/A
	Middle	5200	17.223	17.782	22.680	27.480	N/A	N/A
	High	5240	17.063	17.463	24.200	27.120	N/A	N/A
U-NII-2A	Low	5260	16.863	17.063	23.040	23.240	N/A	N/A
	Middle	5280	16.983	17.542	22.160	28.360	N/A	N/A
	High	5320	16.743	17.143	18.720	24.760	N/A	N/A
U-NII-2C	Low	5500	16.583	16.543	18.440	18.480	N/A	N/A
	Middle	5580	16.743	16.583	18.960	18.440	N/A	N/A
	High	5700	16.663	16.543	18.480	18.520	N/A	N/A
		5720	16.983	16.623	23.120	18.480	N/A	N/A
		5720_UNII-2C	13.352	13.272	15.76	14.2	N/A	N/A
U-NII-3	Low	5720_UNII-3	3.631	3.352	7.36	4.28	N/A	N/A
	Middle	5745	16.783	16.583	N/A	N/A	16.400	16.400
		5785	16.943	16.623	N/A	N/A	16.400	16.400
	High	5825	17.183	16.663	N/A	N/A	16.400	16.400

IEEE 802.11n-HT20 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)		Measured 26dB Bandwidth (MHz)		Measured 6dB Bandwidth (MHz)	
			Ant1	Ant2	Ant1	Ant2	Ant1	Ant2
U-NII-1	Low	5180	17.822	17.702	19.760	19.400	N/A	N/A
	Middle	5200	17.742	17.742	19.440	19.400	N/A	N/A
	High	5240	17.742	17.782	19.480	19.400	N/A	N/A
U-NII-2A	Low	5260	17.702	17.742	19.480	19.480	N/A	N/A
	Middle	5280	17.782	17.782	19.440	19.560	N/A	N/A
	High	5320	17.742	17.782	19.520	19.400	N/A	N/A
U-NII-2C	Low	5500	17.742	17.662	19.440	19.360	N/A	N/A
	Middle	5580	17.742	17.702	19.360	19.480	N/A	N/A
	High	5700	17.742	17.702	19.400	19.480	N/A	N/A
		5720	17.742	17.702	19.400	19.360	N/A	N/A
		5720_UNII-2C	13.831	13.791	14.68	14.68	N/A	N/A
U-NII-3	Low	5720_UNII-3	3.911	3.911	4.72	4.68	N/A	N/A
	Middle	5745	17.782	17.702	N/A	N/A	17.400	17.640
		5785	17.862	17.742	N/A	N/A	17.640	17.640
	High	5825	17.902	17.782	N/A	N/A	17.640	17.400

IEEE 802.11n-HT40 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)		Measured 26dB Bandwidth (MHz)		Measured 6dB Bandwidth (MHz)	
			Ant1	Ant2	Ant1	Ant2	Ant1	Ant2
U-NII-1	Low	5190	36.843	36.843	42.080	42.240	N/A	N/A
	High	5230	36.843	36.923	42.080	47.040	N/A	N/A
U-NII-2A	Low	5270	36.843	36.923	42.080	42.000	N/A	N/A
	High	5310	36.763	36.763	42.000	42.080	N/A	N/A
U-NII-2C	Low	5510	36.843	36.763	42.160	42.000	N/A	N/A
	Middle	5550	36.843	36.763	42.160	42.080	N/A	N/A
	High	5670	36.843	36.763	42.160	41.920	N/A	N/A
		5710	36.923	36.763	42.160	42.160	N/A	N/A
		5710_UNII-2C	33.382	33.302	35.88	35.96	N/A	N/A
U-NII-3	Low	5710_UNII-3	3.541	3.462	6.28	6.20	N/A	N/A
	Middle	5755	36.843	36.843	N/A	N/A	35.280	35.280
	High	5795	37.083	36.843	N/A	N/A	35.280	35.280

IEEE 802.11ac-VHT20 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)		Measured 26dB Bandwidth (MHz)		Measured 6dB Bandwidth (MHz)	
			Ant1	Ant2	Ant1	Ant2	Ant1	Ant2
U-NII-1	Low	5180	17.702	17.702	19.440	19.440	N/A	N/A
	Middle	5200	17.702	17.702	19.440	19.440	N/A	N/A
	High	5240	17.742	17.742	19.480	19.640	N/A	N/A
U-NII-2A	Low	5260	17.662	17.742	19.440	19.480	N/A	N/A
	Middle	5280	17.702	17.782	19.480	19.480	N/A	N/A
	High	5320	17.702	17.742	19.400	19.480	N/A	N/A
U-NII-2C	Low	5500	17.702	17.662	19.480	19.400	N/A	N/A
	Middle	5580	17.702	17.662	19.440	19.440	N/A	N/A
	High	5700	17.702	17.662	19.400	19.400	N/A	N/A
		5720	17.662	17.662	19.440	19.480	N/A	N/A
		5720_UNII-2C	13.791	13.791	14.68	14.72	N/A	N/A
U-NII-3	Low	5720_UNII-3	3.871	3.871	4.76	4.76	N/A	N/A
	Middle	5745	17.742	17.662	N/A	N/A	17.640	17.640
		5785	17.822	17.662	N/A	N/A	17.360	17.360
	High	5825	17.862	17.702	N/A	N/A	17.360	17.320

IEEE 802.11ac-VHT40 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)		Measured 26dB Bandwidth (MHz)		Measured 6dB Bandwidth (MHz)	
			Ant1	Ant2	Ant1	Ant2	Ant1	Ant2
U-NII-1	Low	5190	36.444	36.603	41.760	41.840	N/A	N/A
	High	5230	36.523	36.763	41.760	47.920	N/A	N/A
U-NII-2A	Low	5270	36.523	36.843	41.920	48.080	N/A	N/A
	High	5310	36.444	36.523	41.760	41.840	N/A	N/A
U-NII-2C	Low	5510	36.523	36.523	41.920	41.920	N/A	N/A
	Middle	5550	36.523	36.523	41.840	41.840	N/A	N/A
	High	5670	36.523	36.444	41.840	41.680	N/A	N/A
		5710	36.603	36.523	42.000	41.840	N/A	N/A
		5710_UNII-2C	33.222	33.222	36.04	35.96	N/A	N/A
U-NII-3	Low	5710_UNII-3	3.382	3.302	5.96	5.88	N/A	N/A
	Middle	5755	36.683	36.523	N/A	N/A	35.280	35.280
	High	5795	36.763	36.603	N/A	N/A	35.360	35.360

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IEEE 802.1ac-VHT80 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)		Measured 26dB Bandwidth (MHz)		Measured 6dB Bandwidth (MHz)	
			Ant1	Ant2	Ant1	Ant2	Ant1	Ant2
U-NII-1	Low	5210	74.805	74.805	81.600	81.760	N/A	N/A
U-NII-2A	High	5290	74.805	74.965	81.920	81.600	N/A	N/A
U-NII-2C	Low	5530	74.965	74.965	81.760	81.920	N/A	N/A
	Middle	5610	74.965	74.965	81.920	81.920	N/A	N/A
	High	5690	74.965	74.965	82.080	82.080	N/A	N/A
		5690_UNII-2C	72.403	72.403	75.8	75.8	N/A	N/A
U-NII-3	Low	5690_UNII-3	2.562	2.562	6.28	6.28	N/A	N/A
	High	5775	74.965	74.965	N/A	N/A	74.240	74.240

Remark: “N/A” means “Not Applicable”

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26dB Bandwidth:

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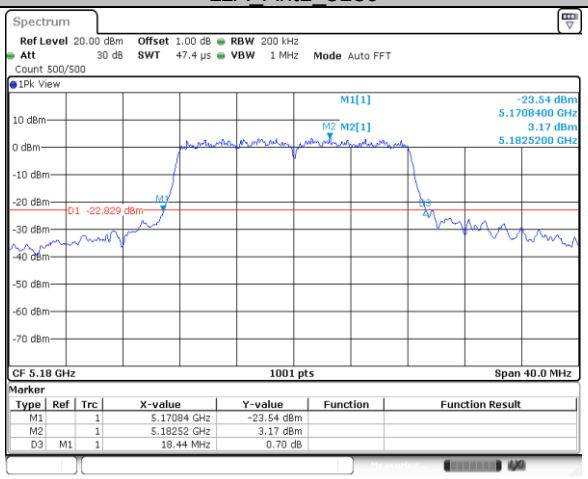

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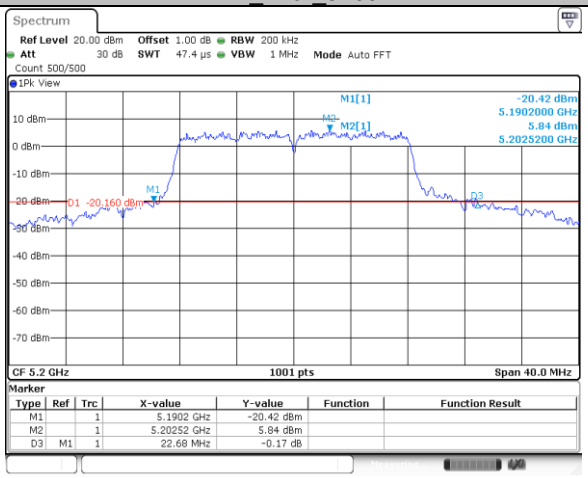

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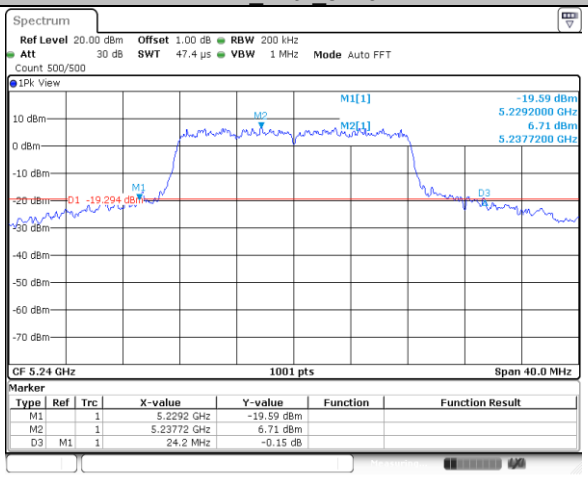

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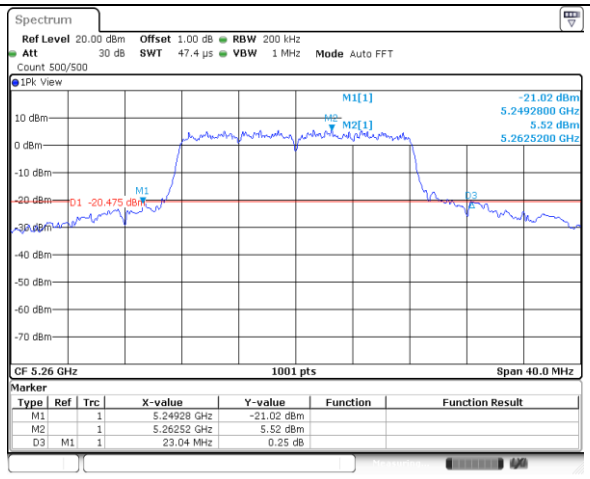

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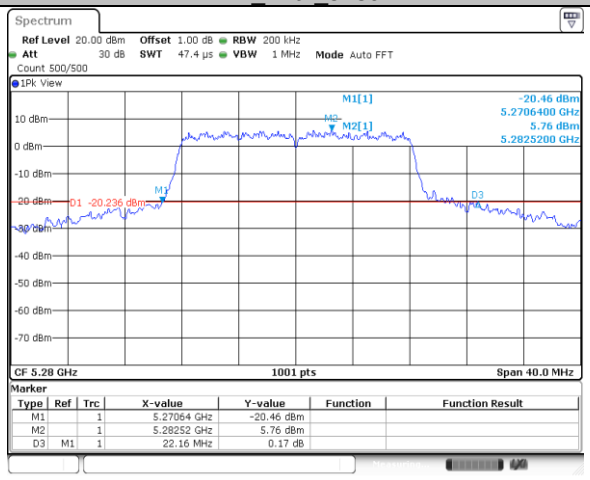

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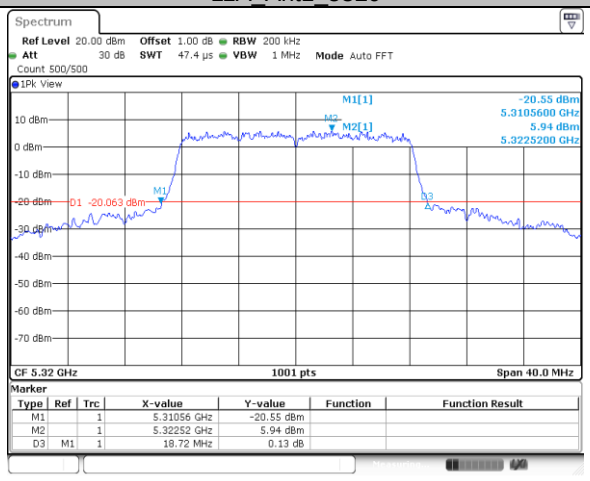

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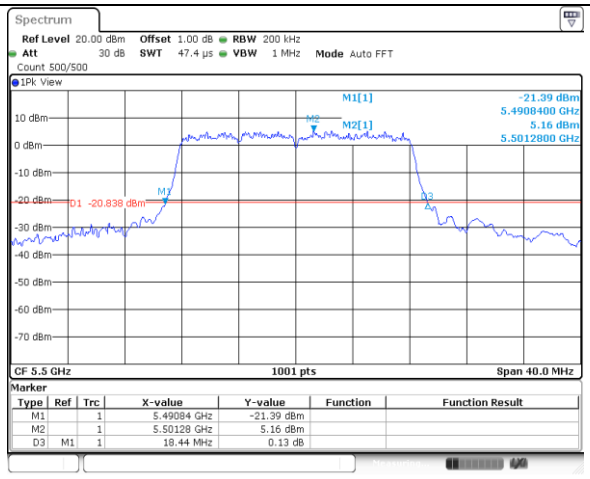

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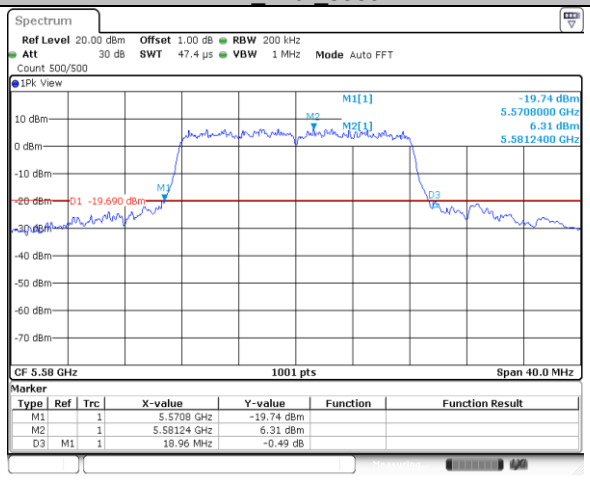

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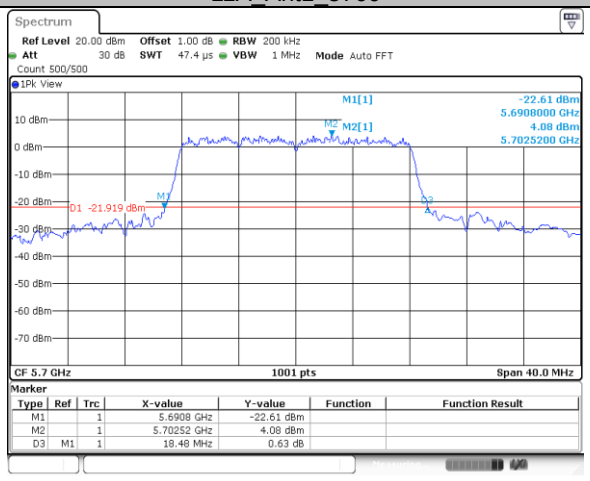

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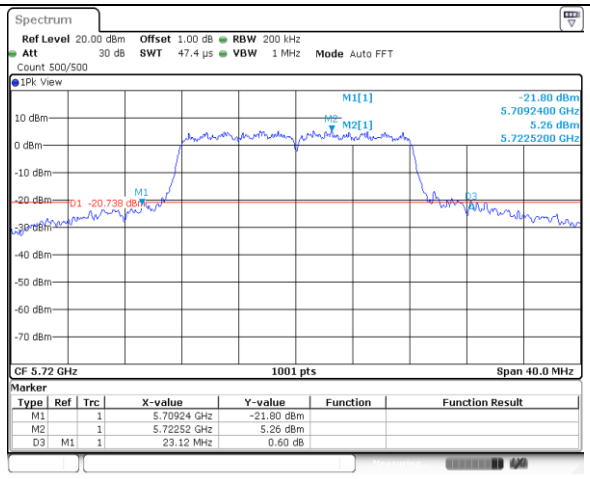

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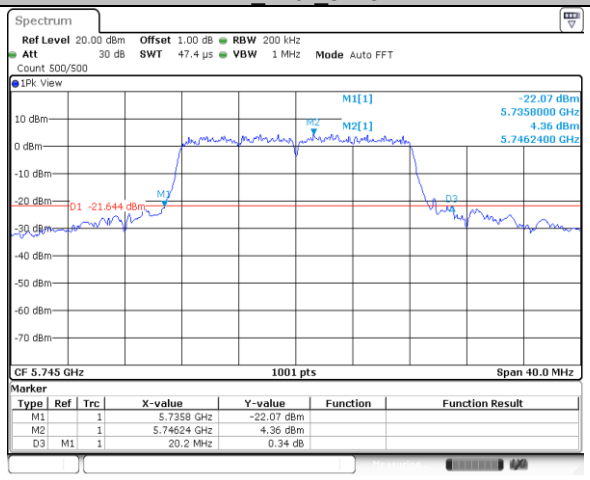

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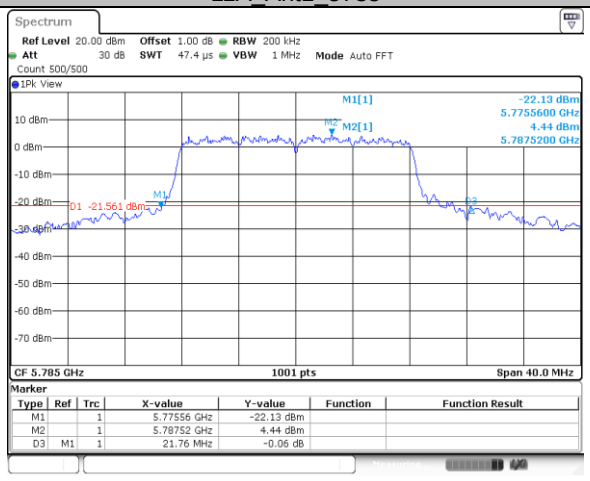

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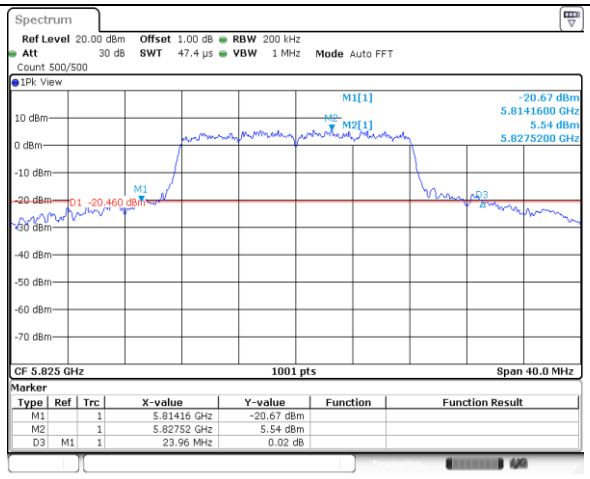

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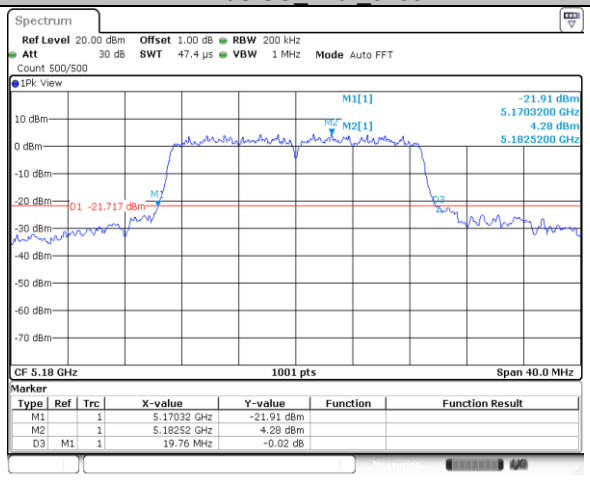

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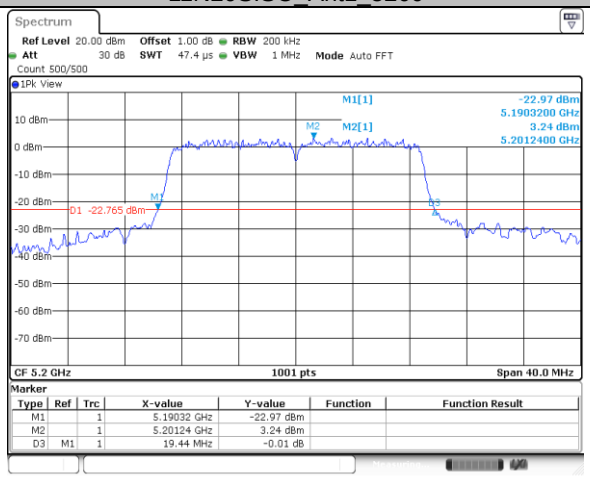

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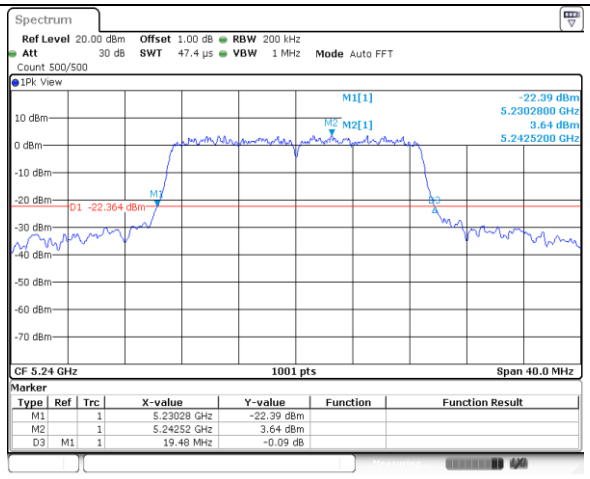

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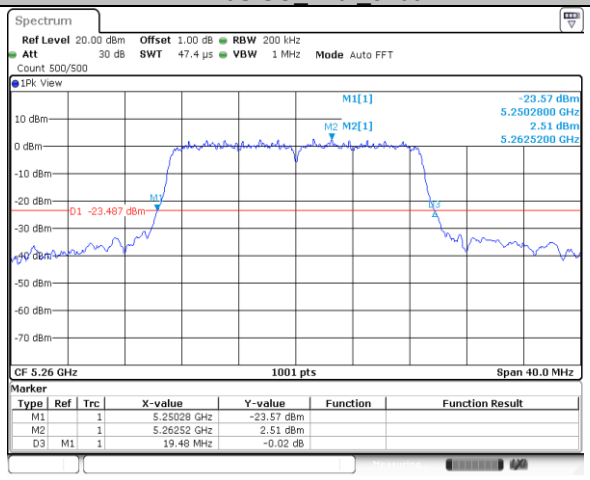

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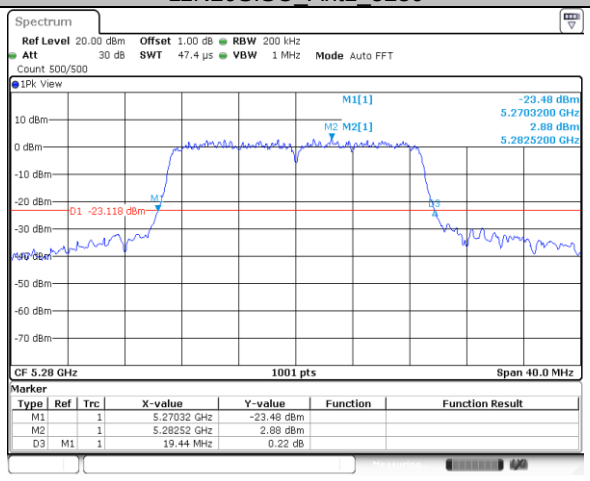

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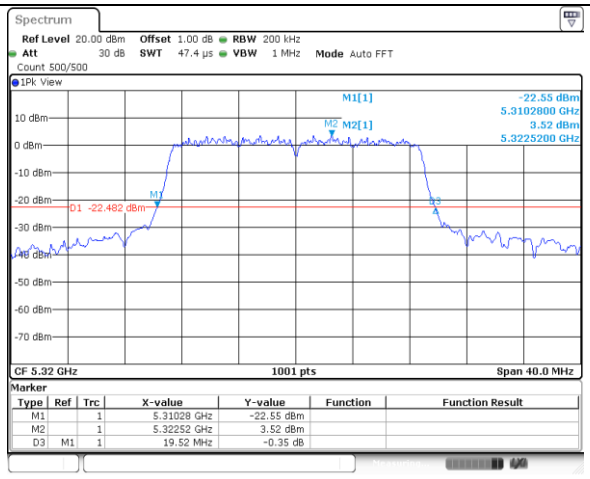

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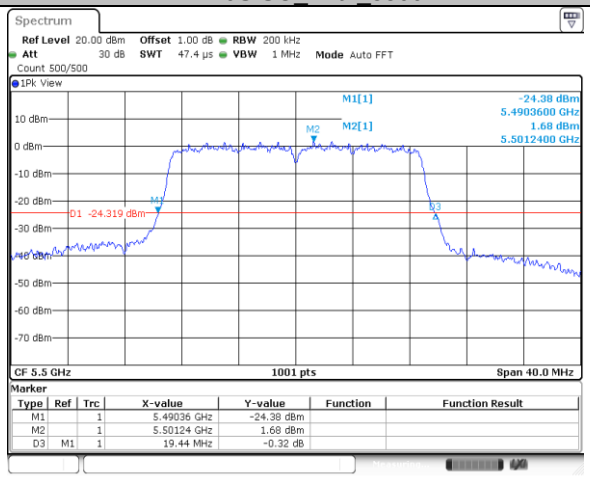

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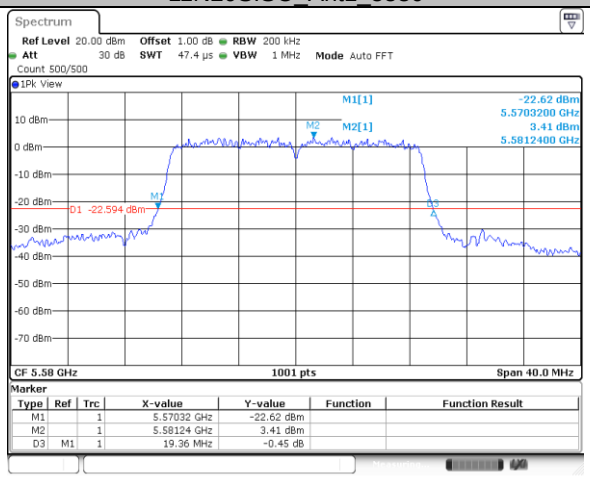

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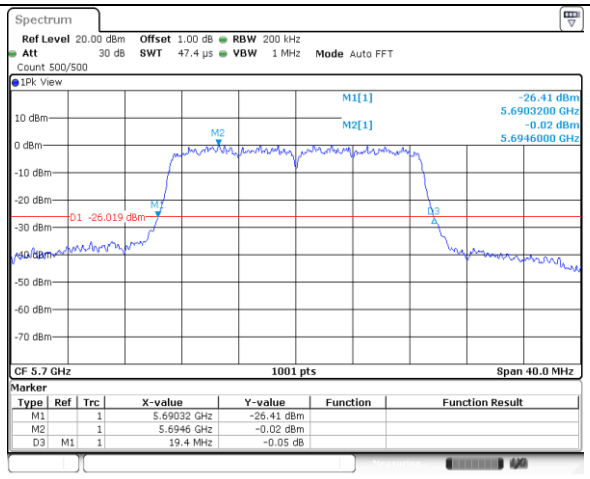

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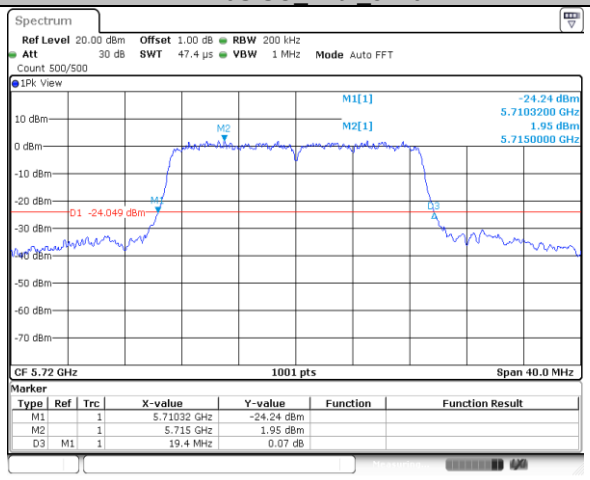

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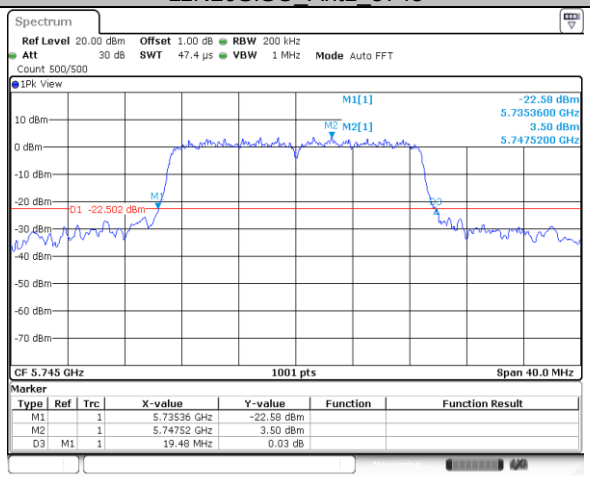

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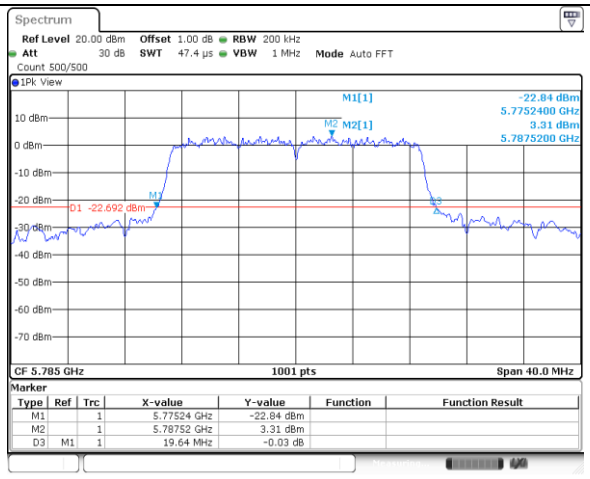

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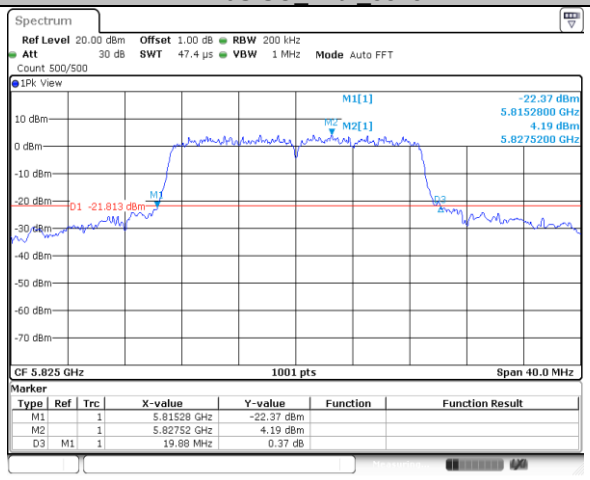

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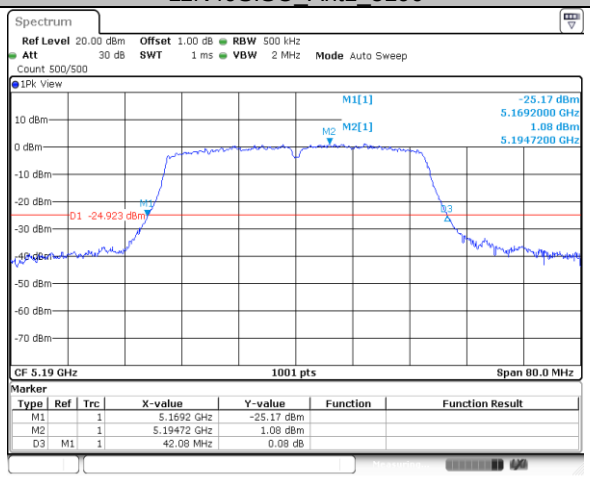

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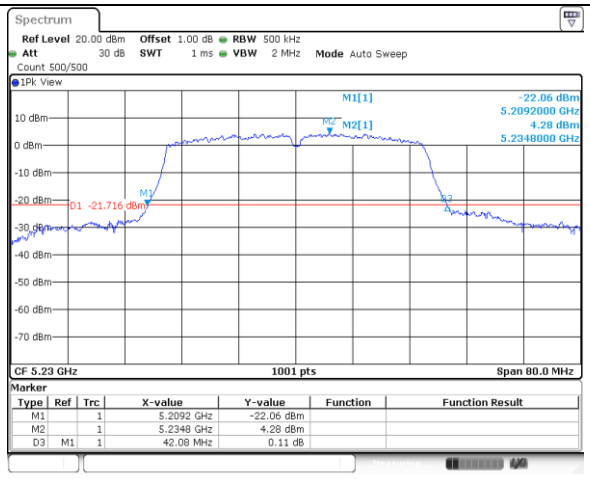

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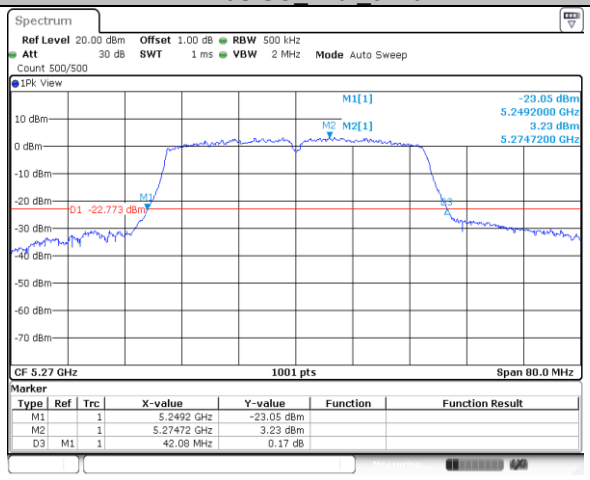

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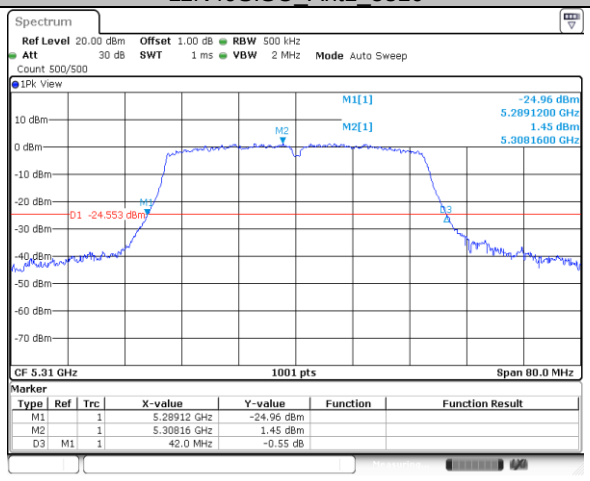

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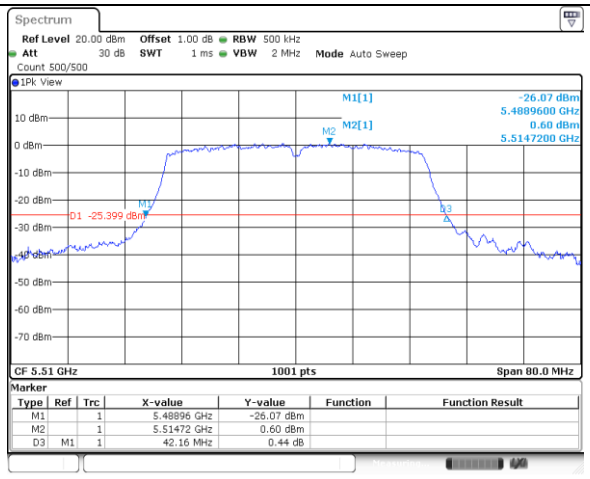

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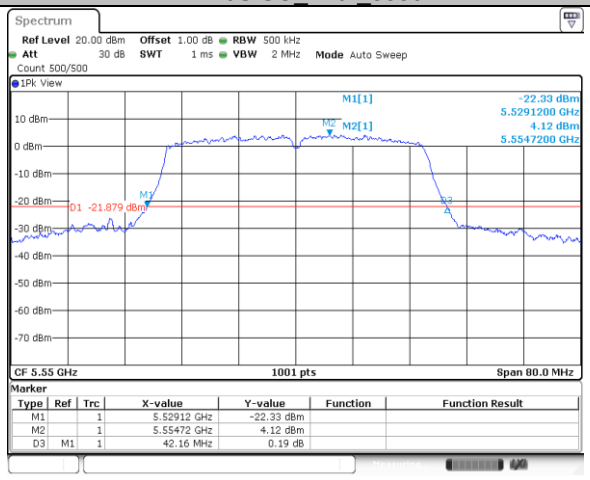

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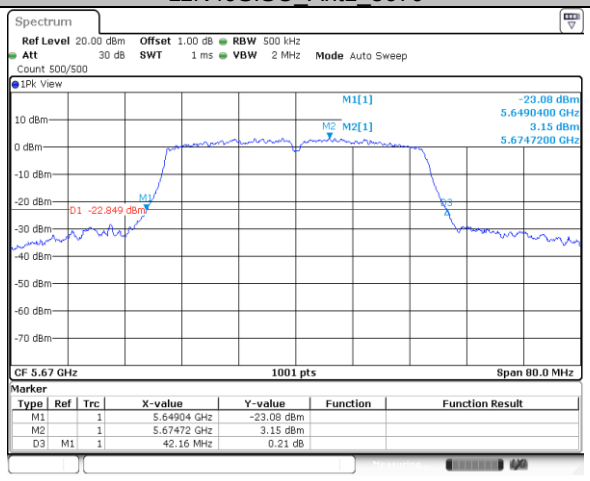

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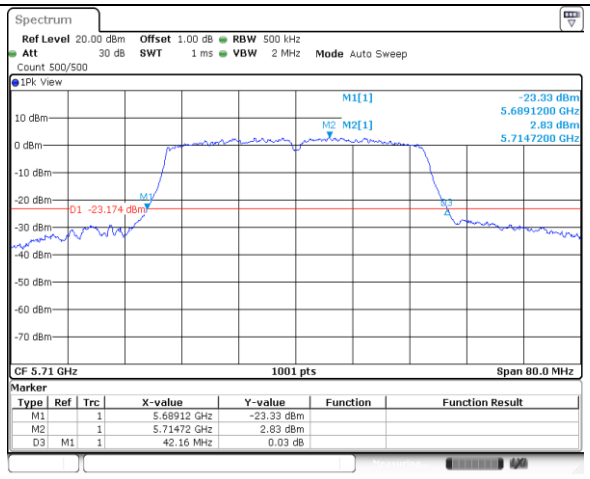

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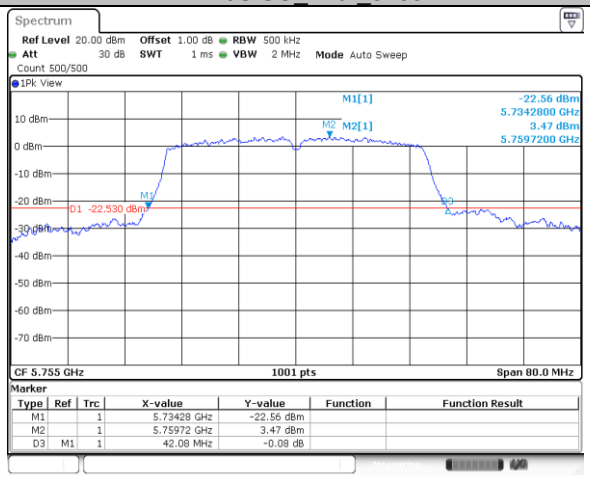

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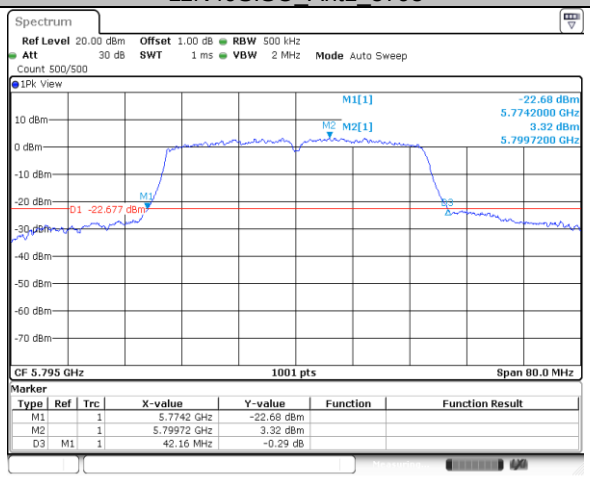

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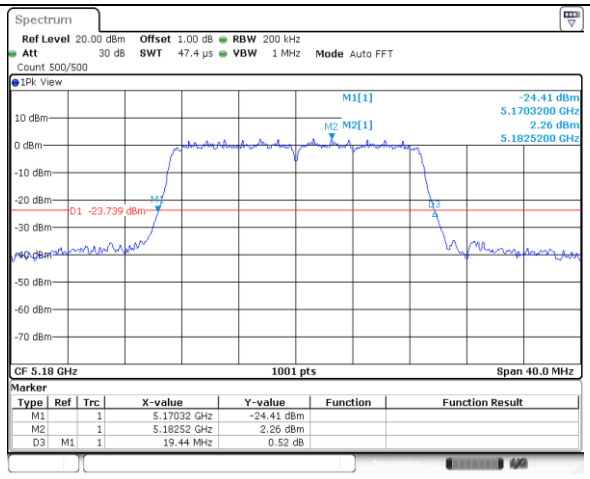

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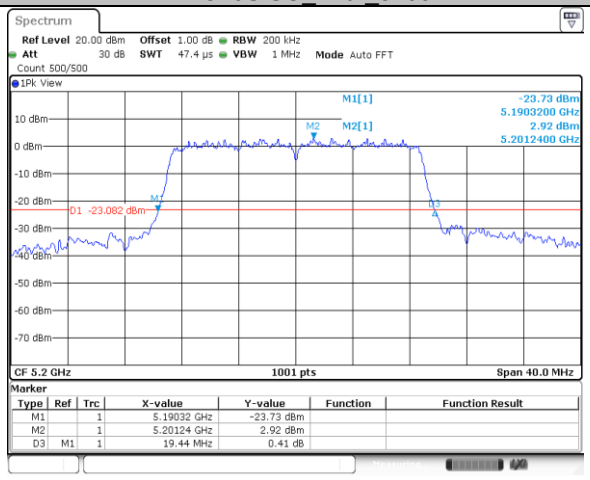

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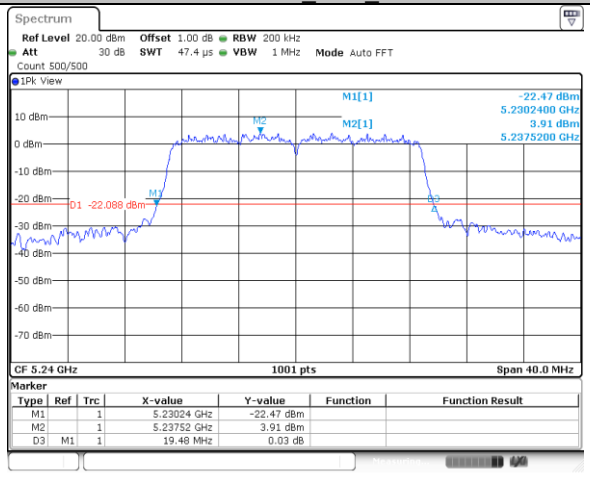

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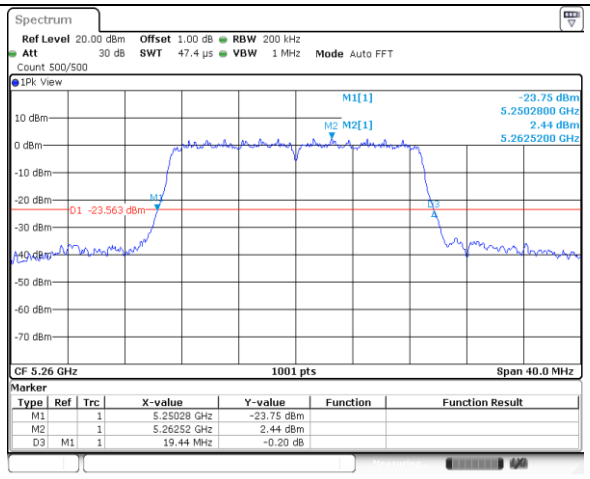

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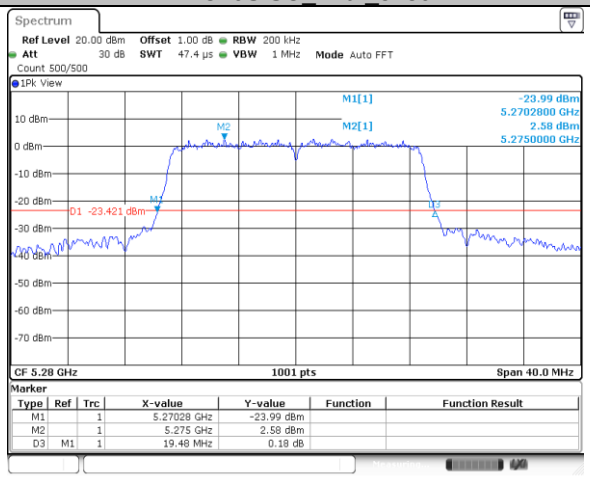

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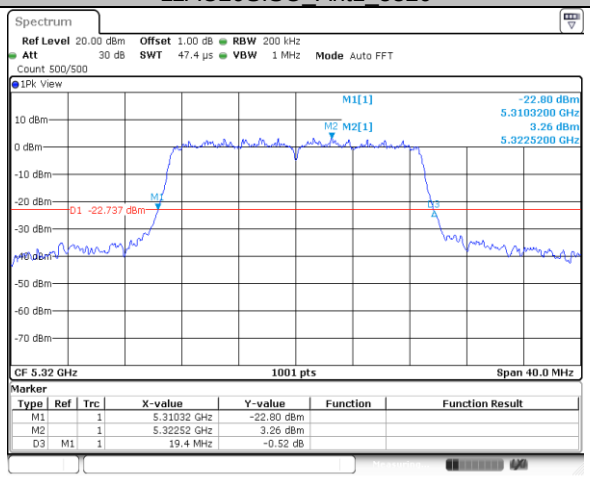

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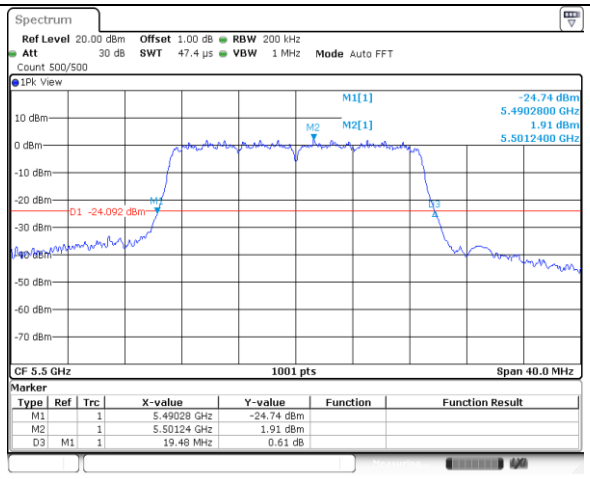

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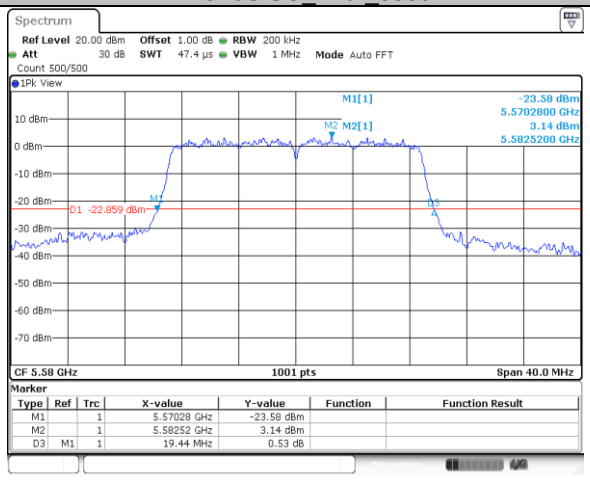

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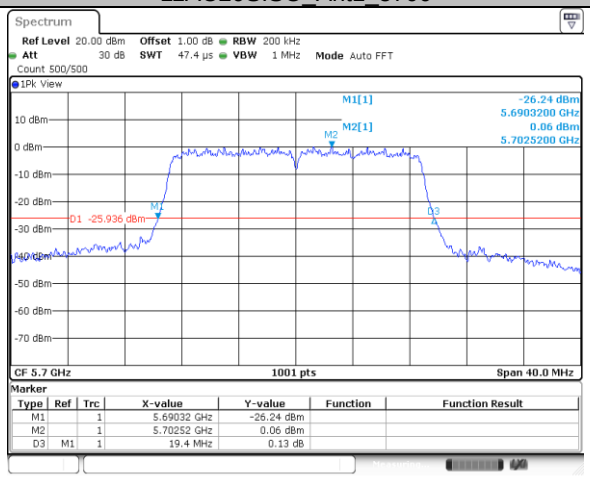

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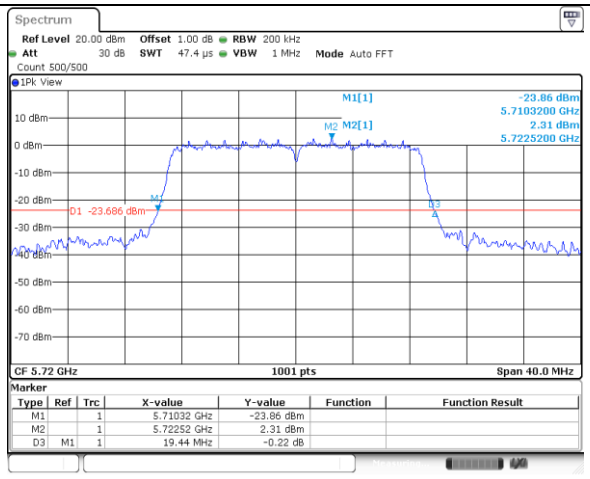

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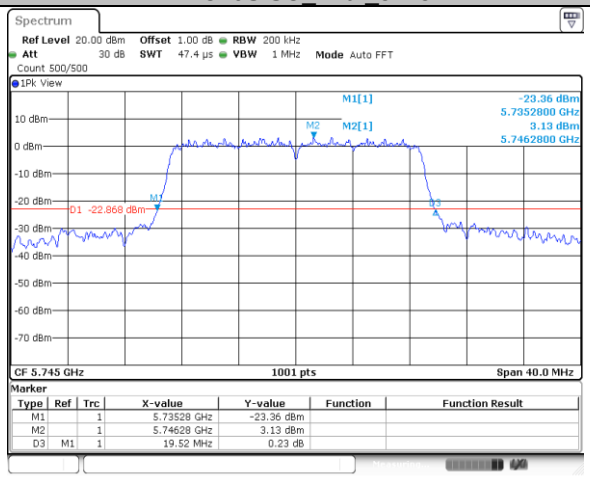

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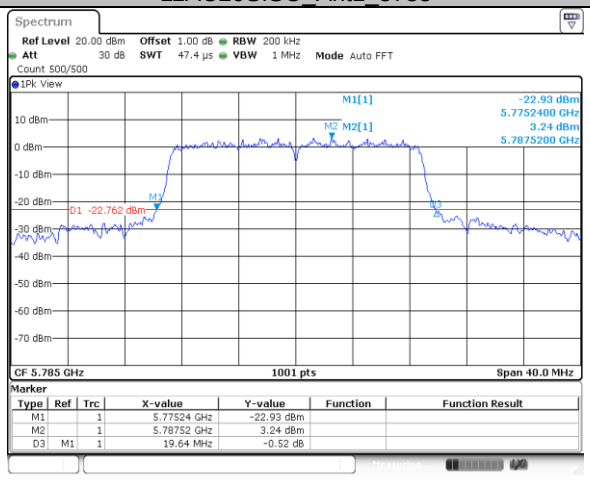

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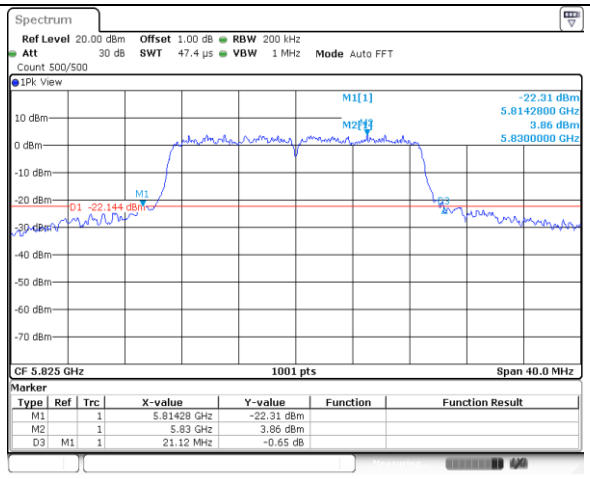

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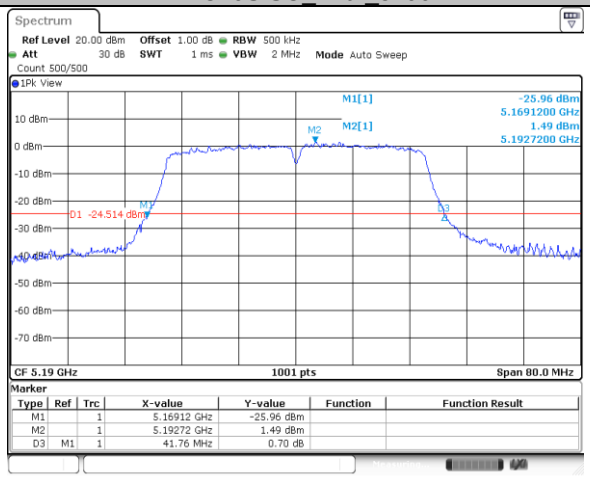

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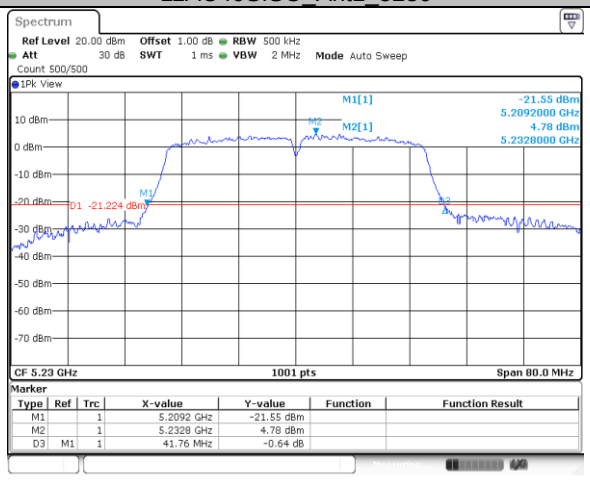

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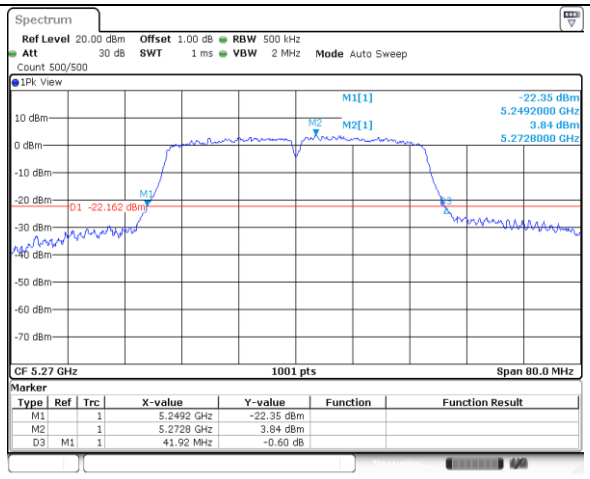

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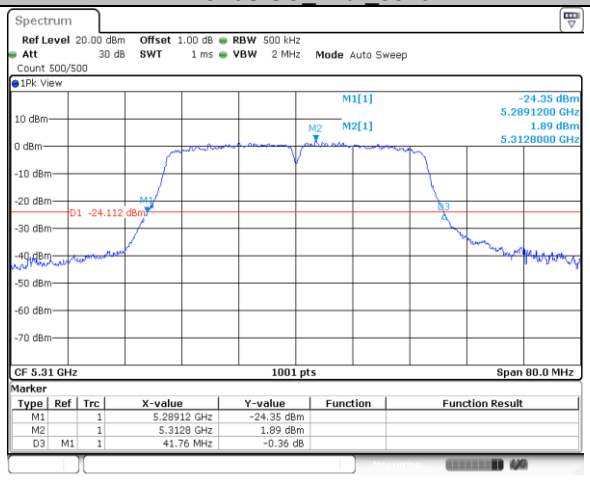

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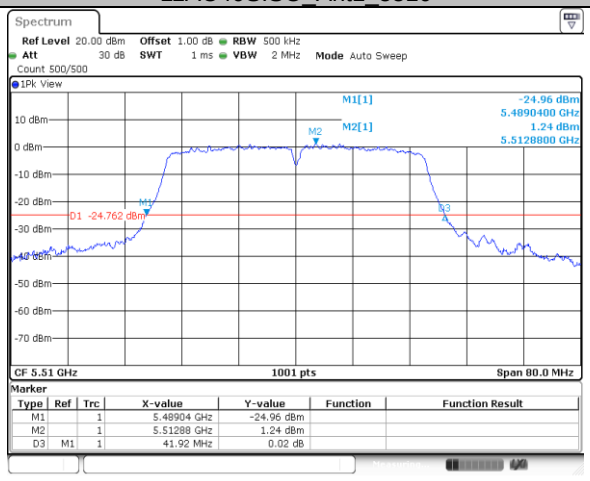

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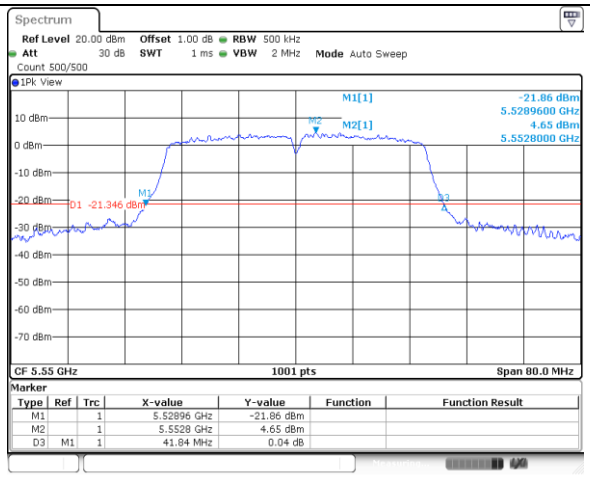

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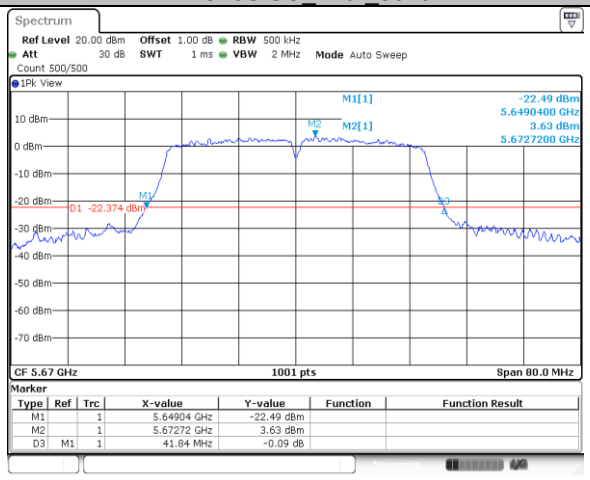

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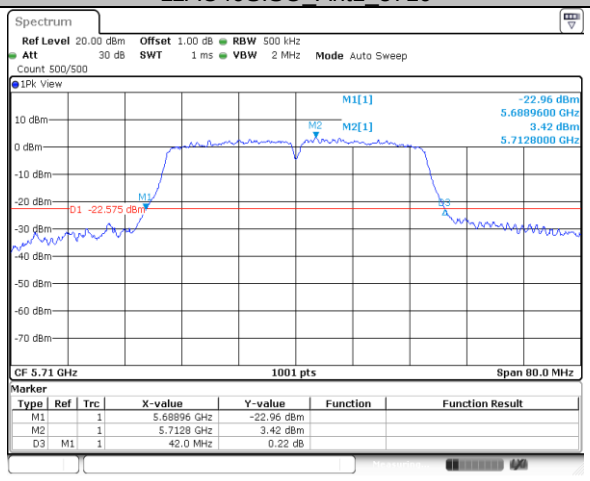

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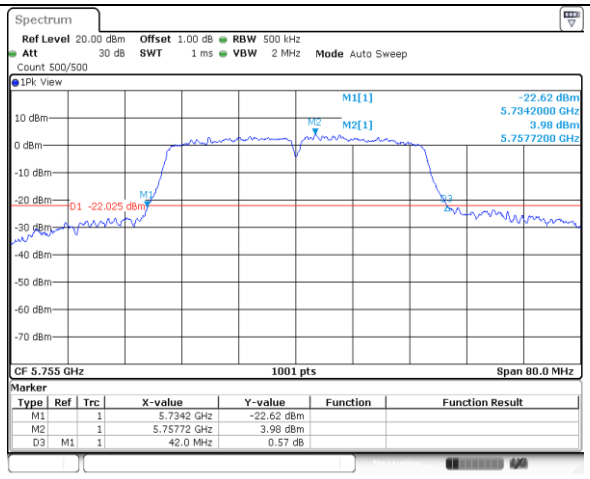

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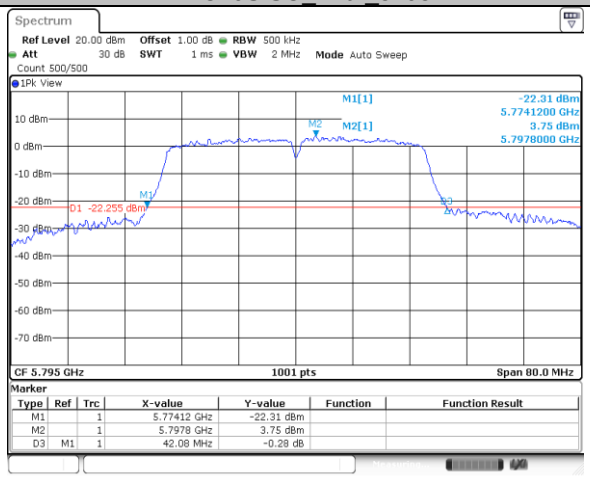

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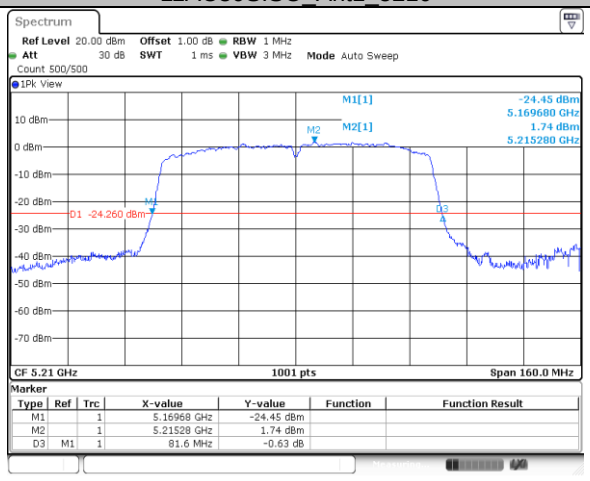

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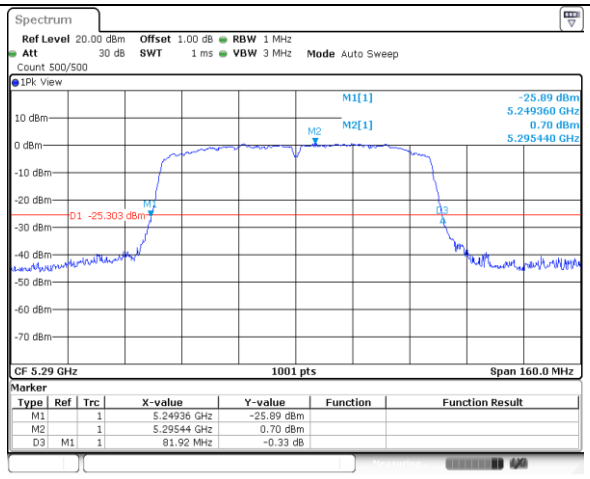

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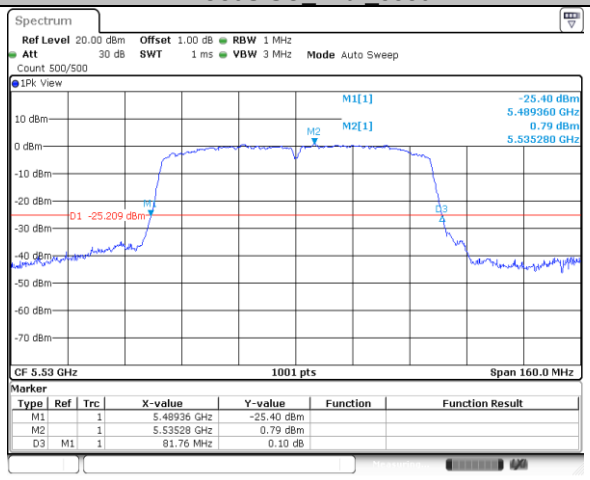

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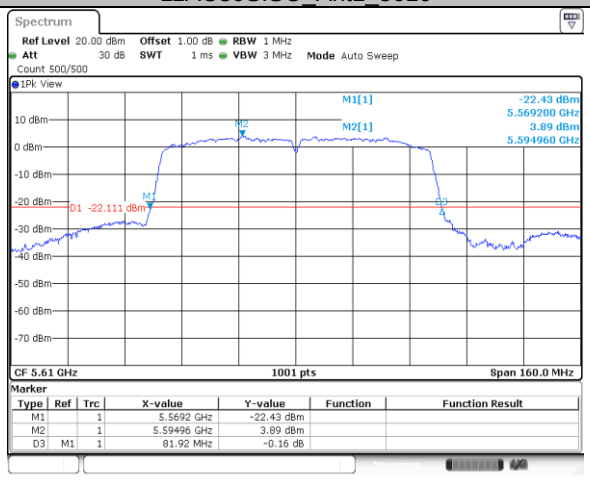

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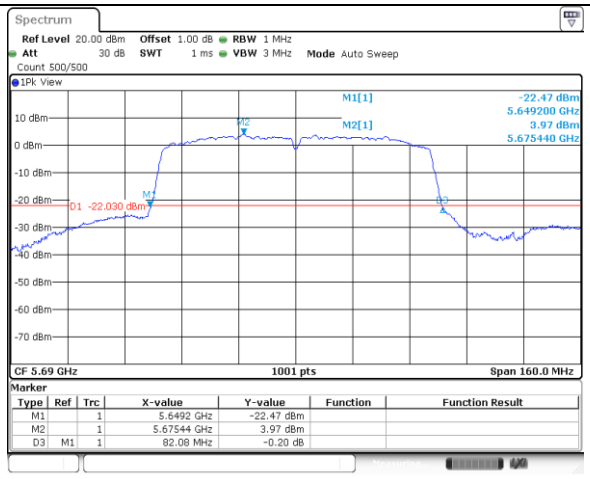

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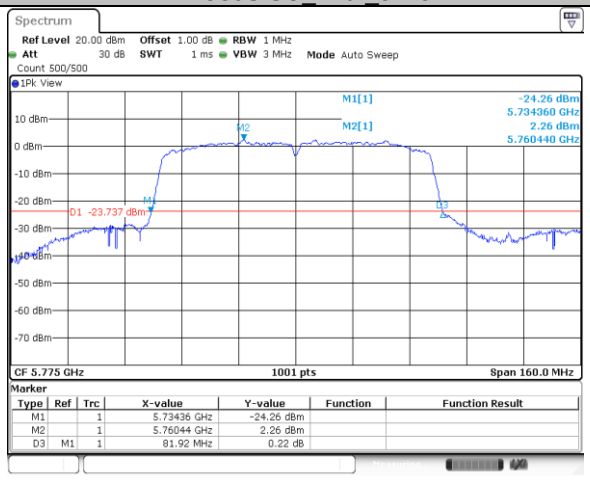

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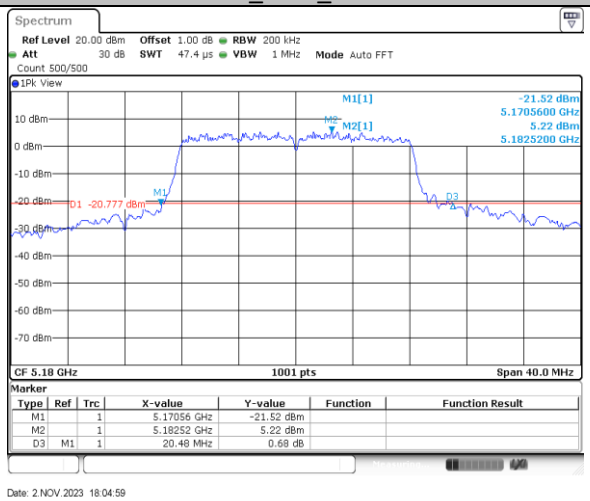

11A_Ant2_5200

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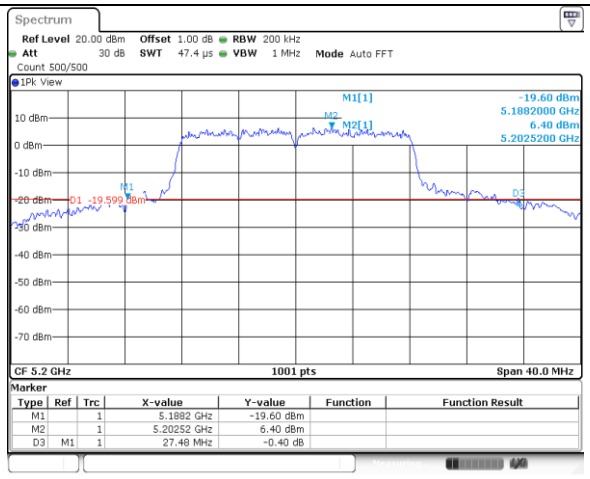

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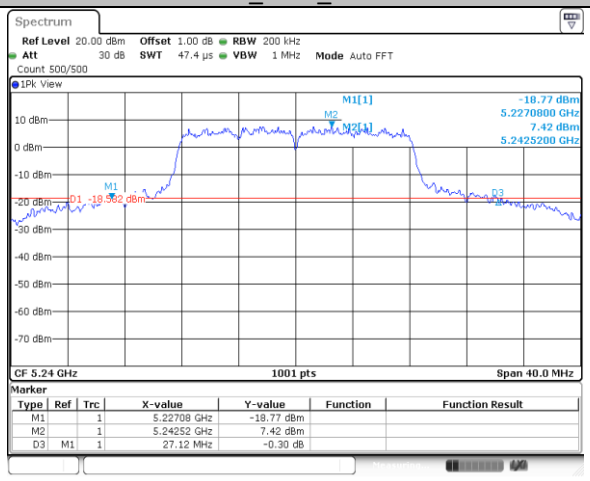

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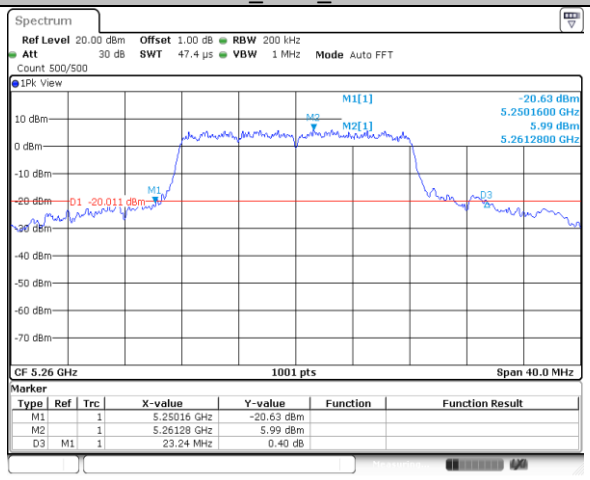

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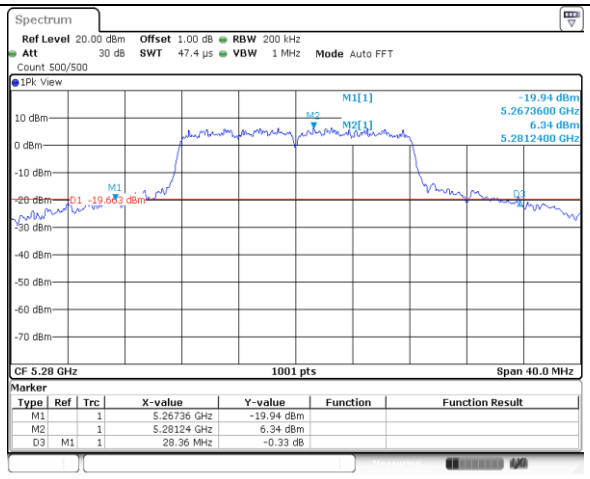

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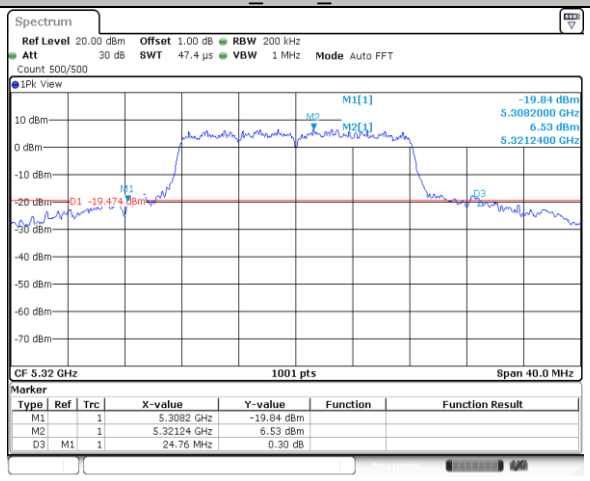

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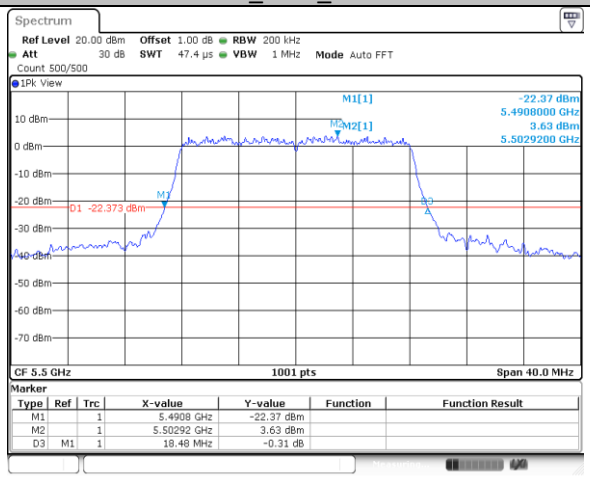

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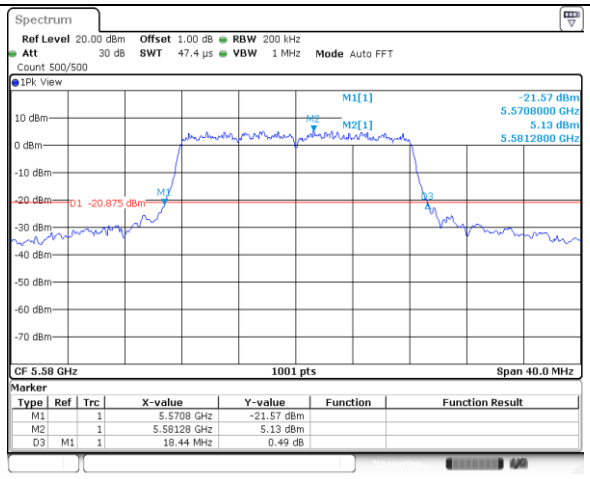

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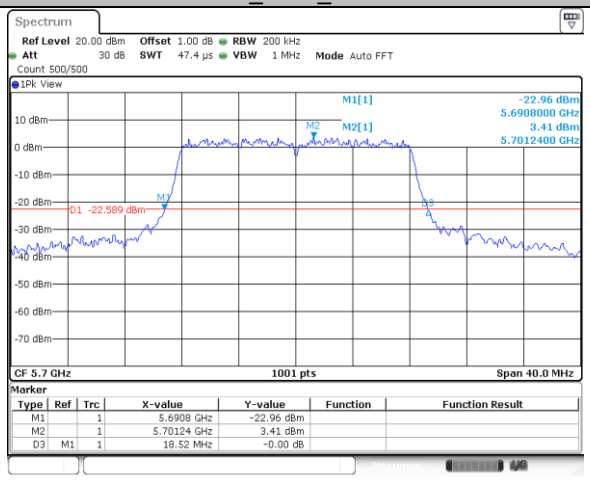

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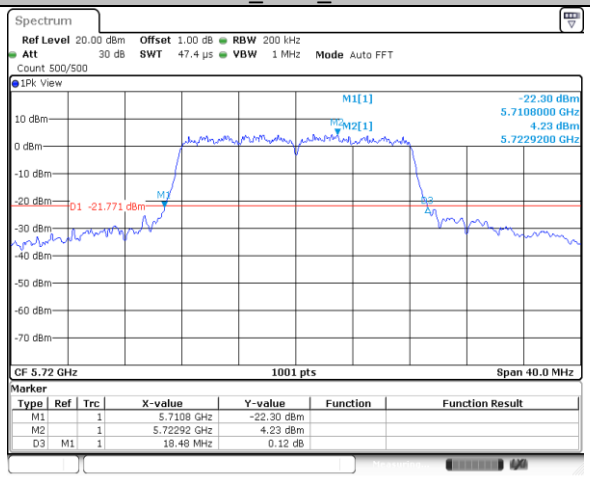

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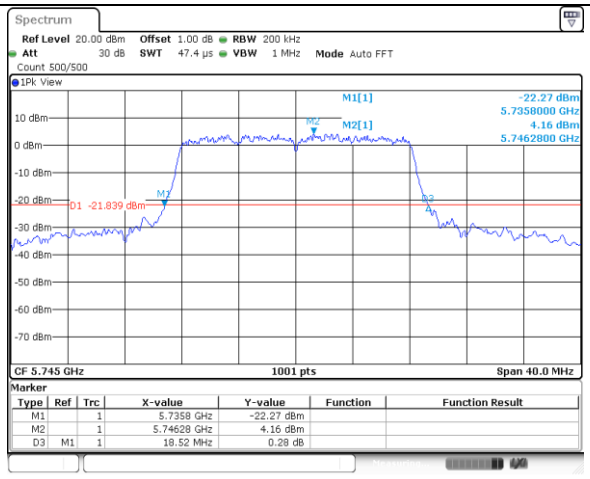

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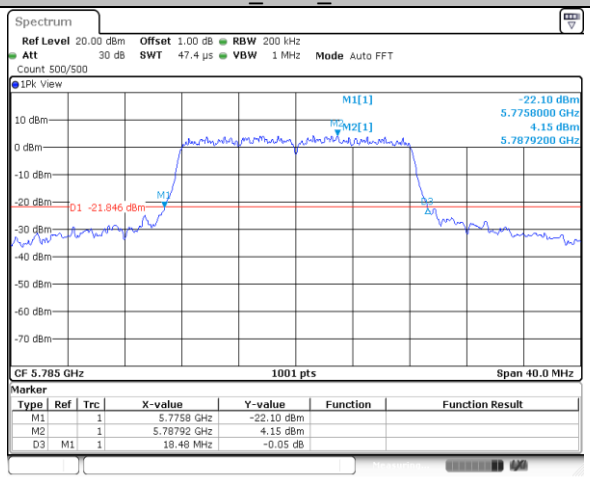

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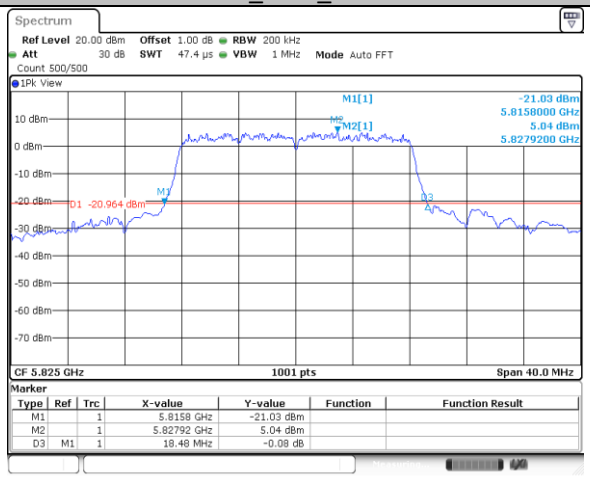

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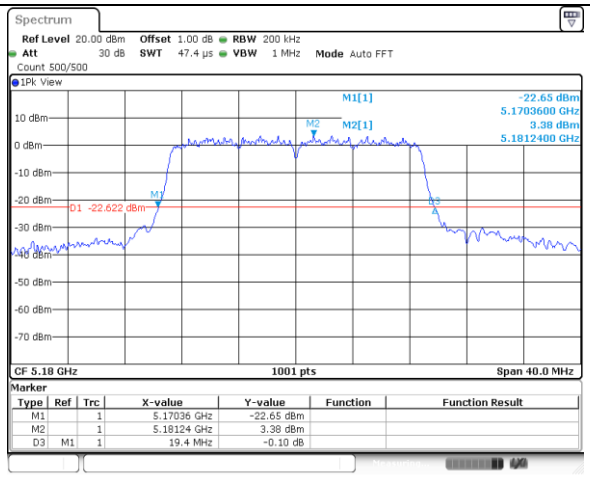

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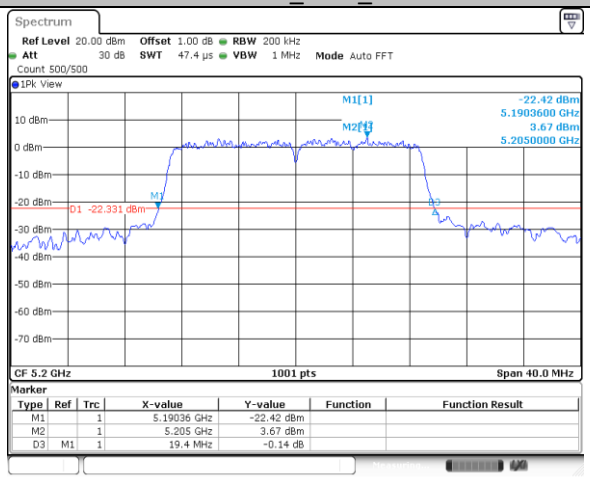

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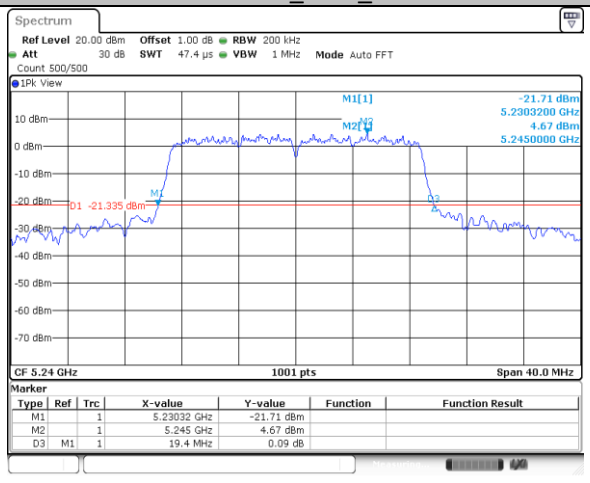

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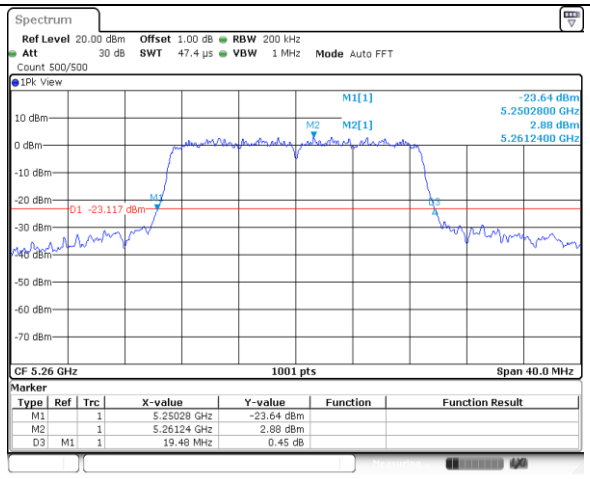

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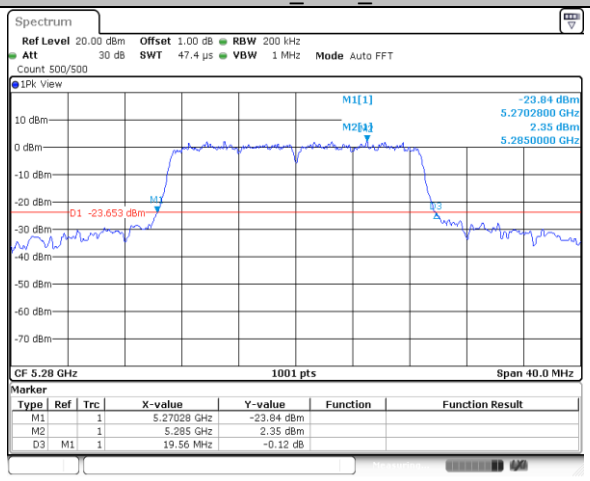

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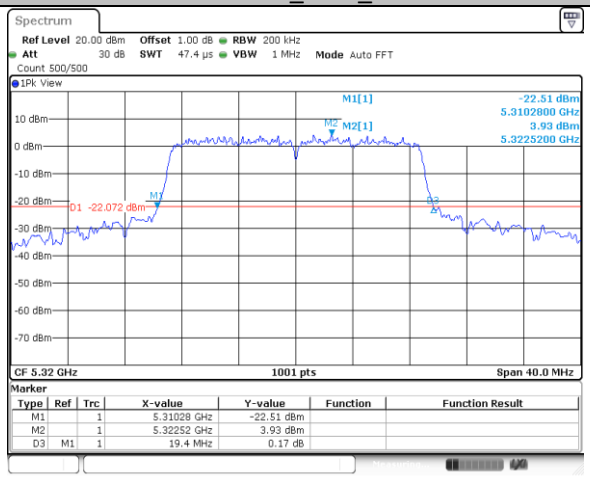

11N20SISO_Ant2_5500

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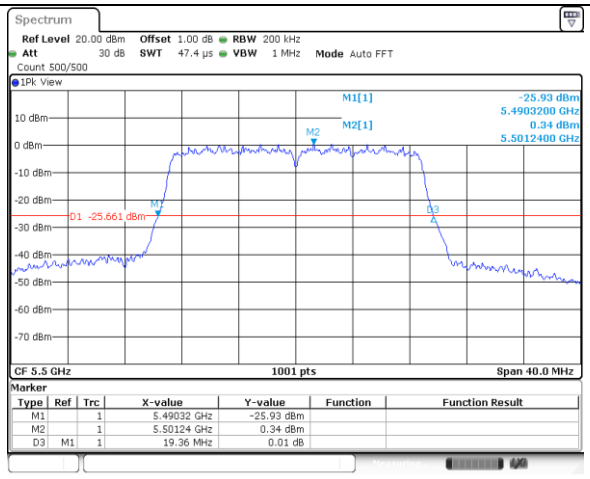

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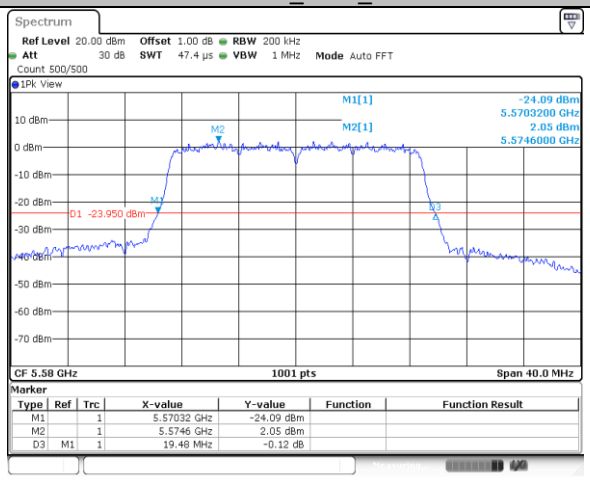

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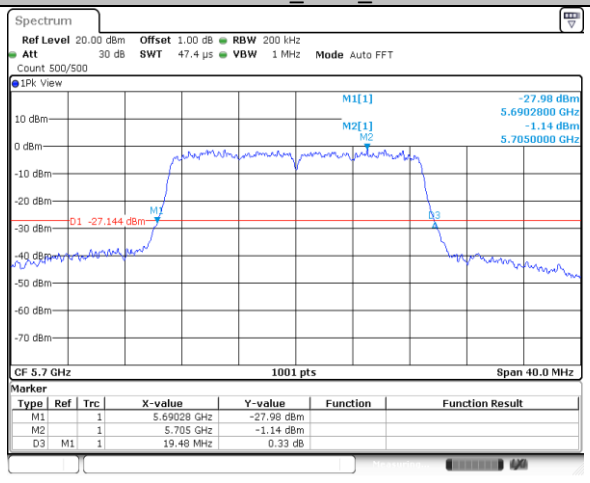

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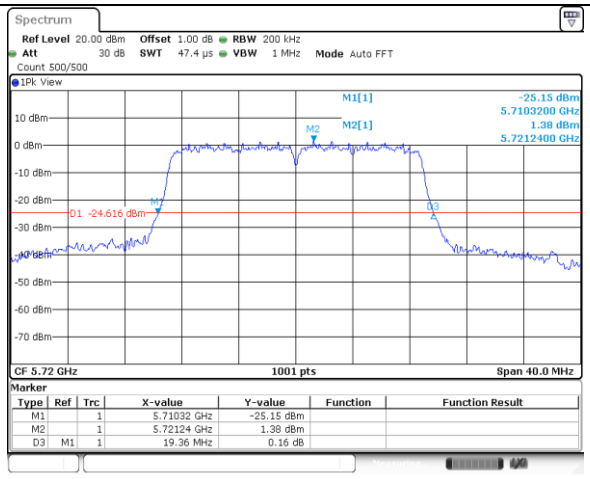

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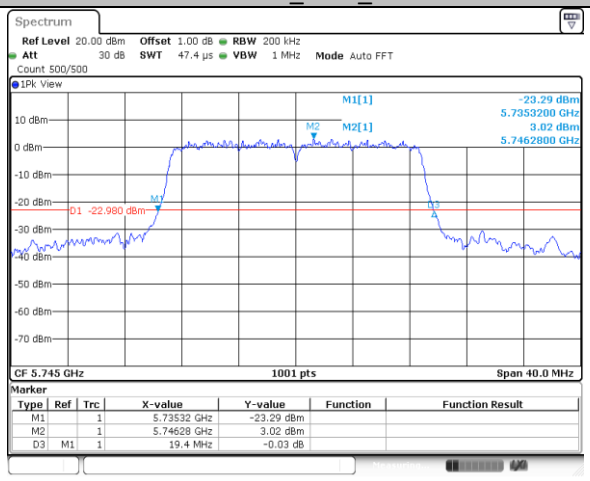

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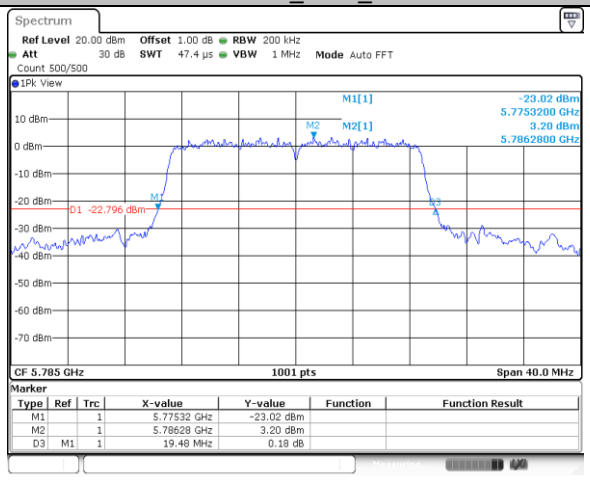

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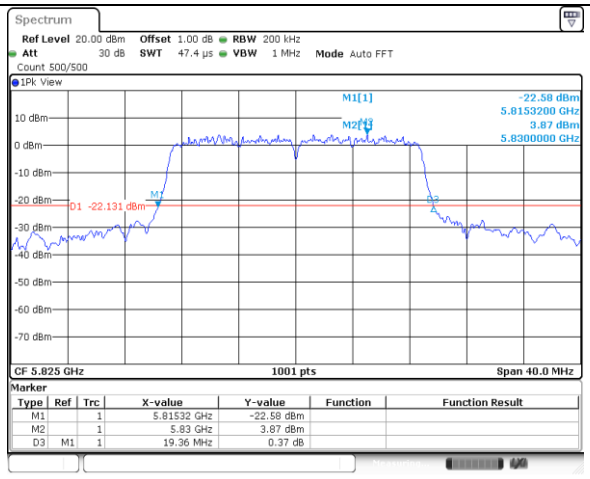

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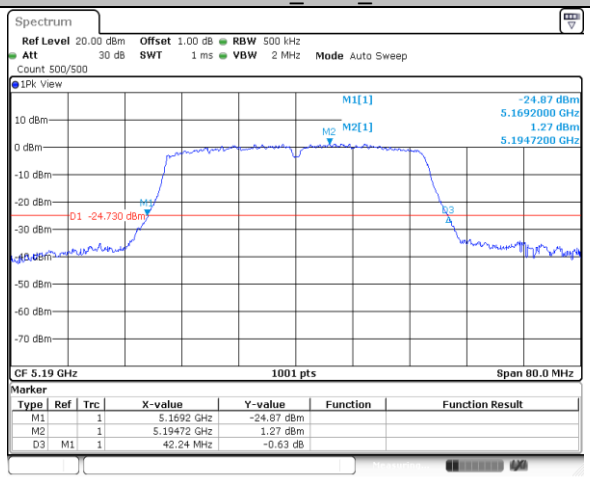

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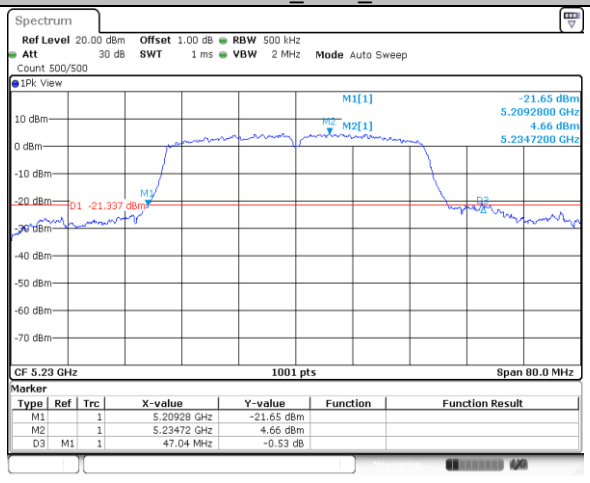

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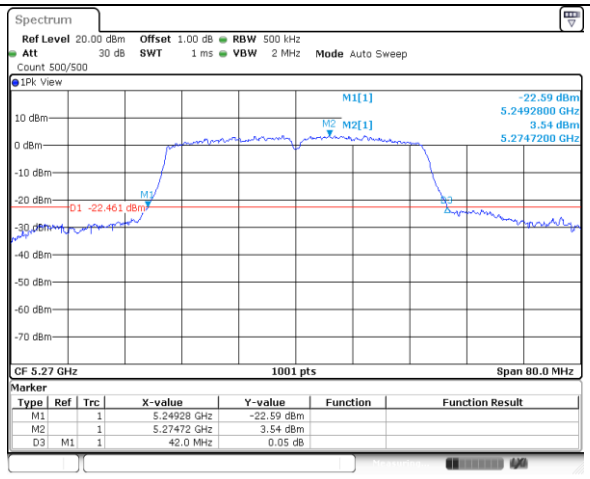

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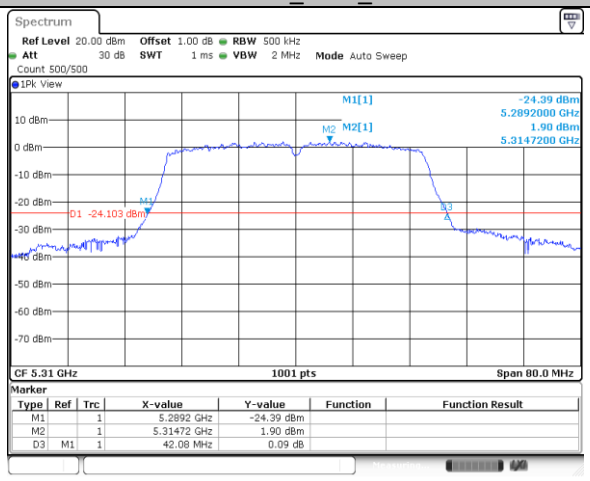

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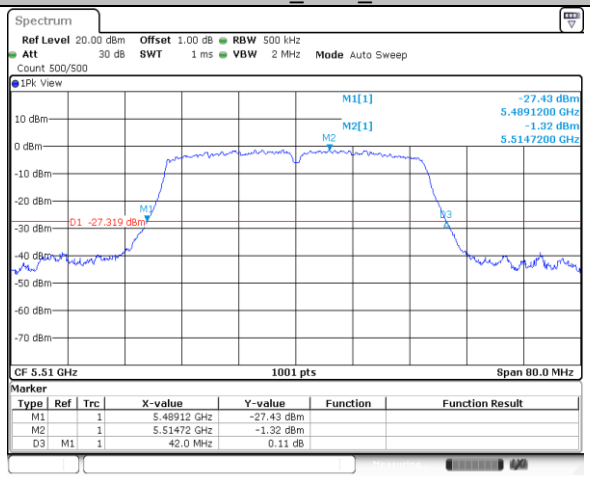

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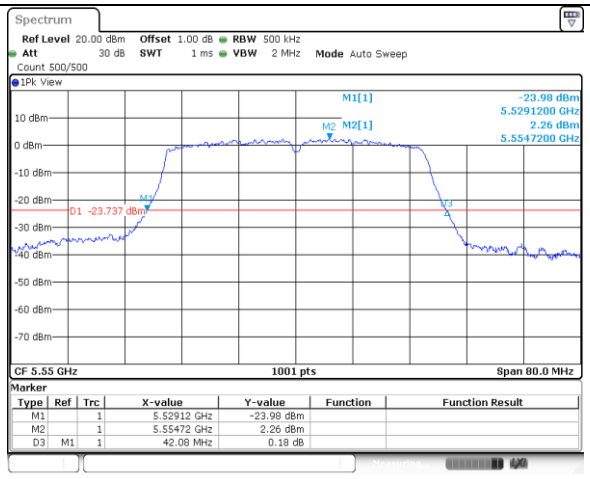

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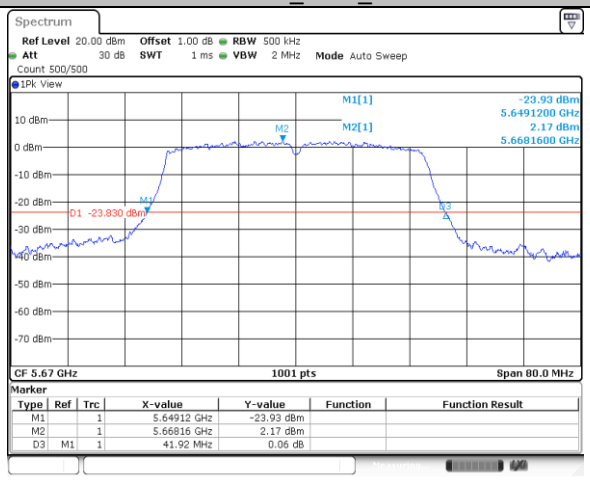

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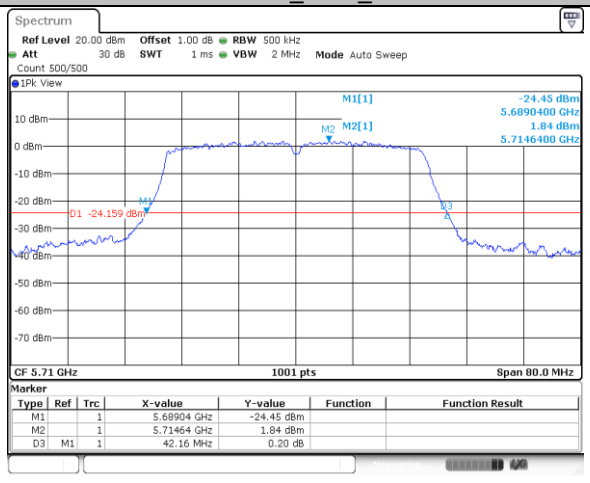

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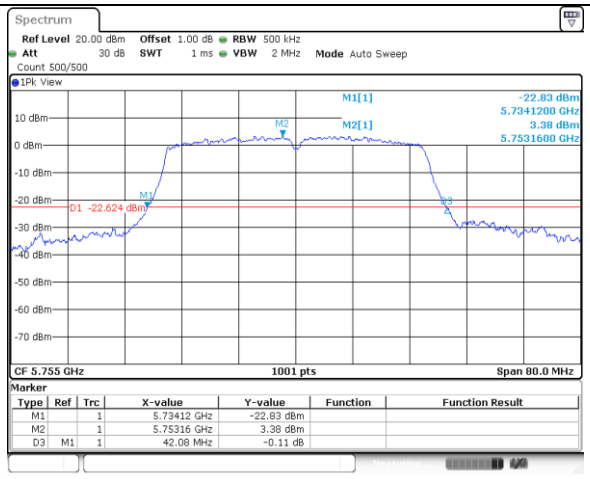

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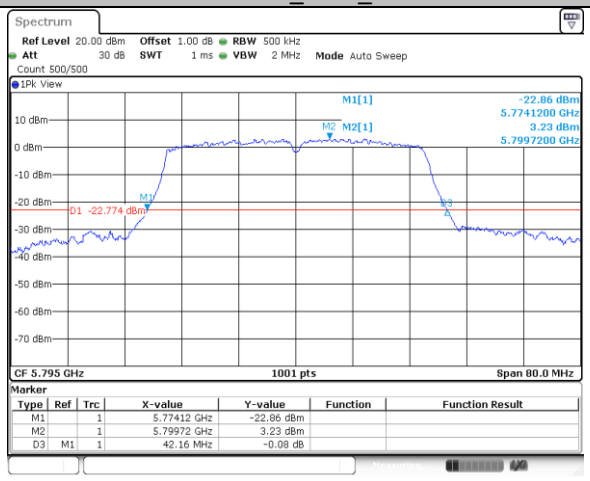
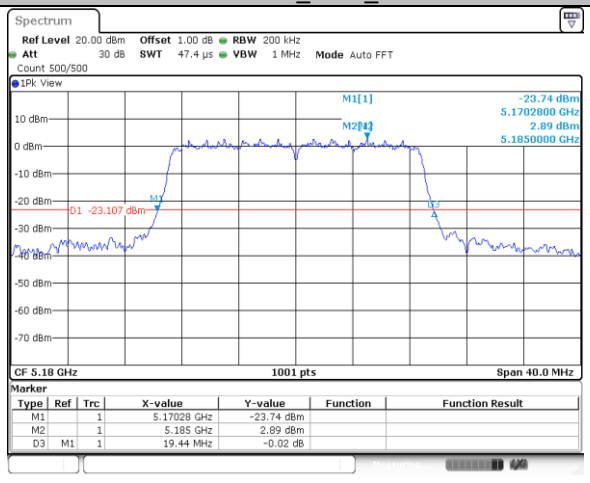


11AC20SISO_Ant2_5180



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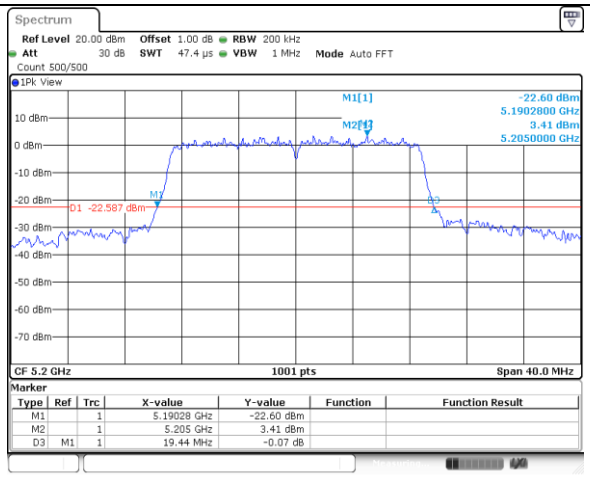

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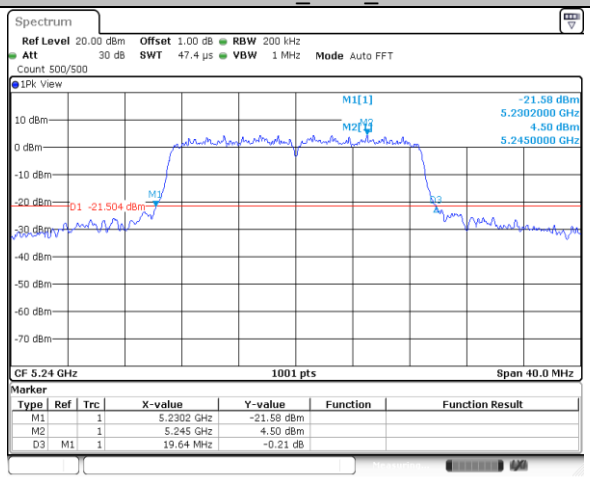

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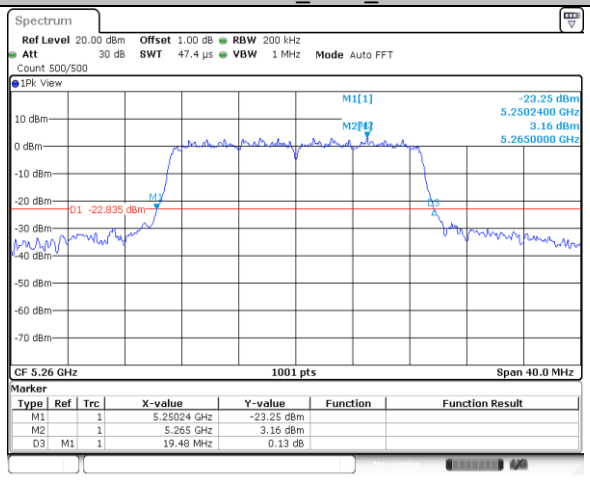
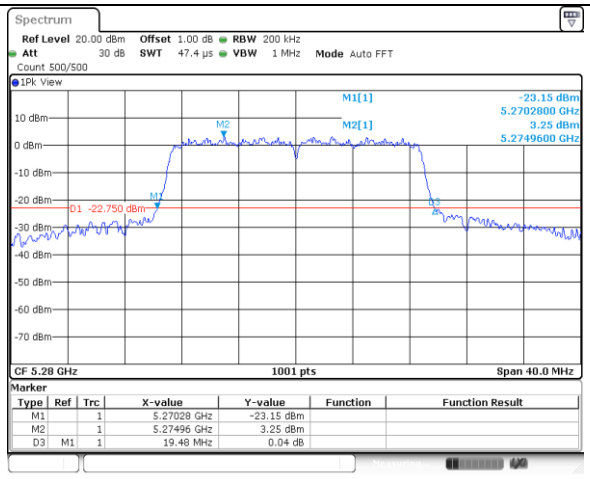


11AC20SISO_Ant2_5280



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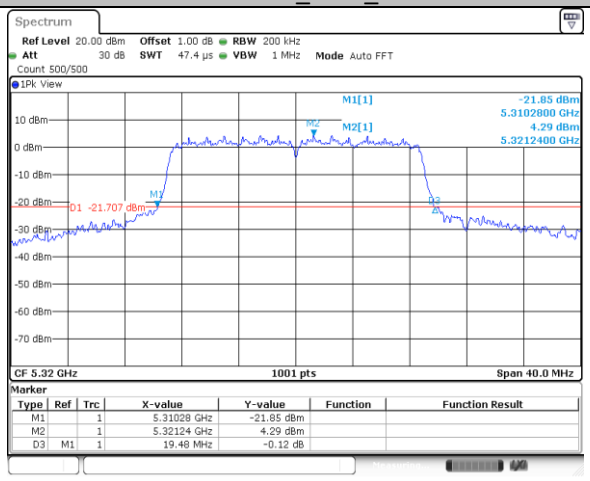

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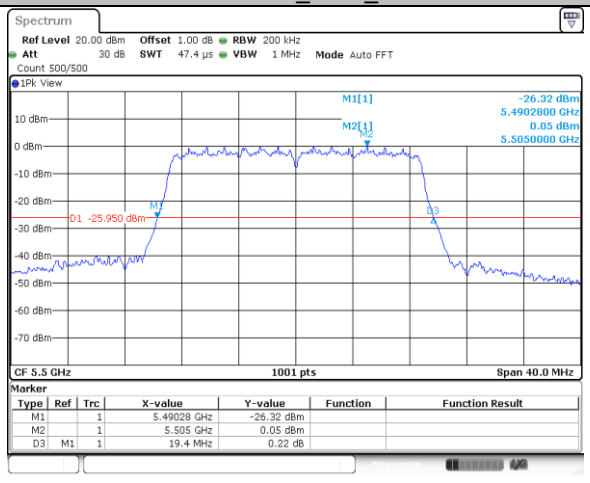

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