FCC - TEST REPORT

Report Number	:	**68.950.21.0422.01**	Date of Issue:	**2021-10-13**
Model	:	**AM001**		
Product Type	:	Z CAM IPMAN AMBR		
Applicant	:	Shenzhen ImagineVision Technology Limited		
Address	:	1A, F5, TCL International E City, 1001 Zhong Shan Park Road, Nan Shan, 518055 Shenzhen, PEOPLE'S REPUBLIC OF CHINA		
Manufacturer	:	Shenzhen ImagineVision Technology Limited		
Address	:	1A, F5, TCL International E City, 1001 Zhong Shan Park Road, Nan Shan, 518055 Shenzhen, PEOPLE'S REPUBLIC OF CHINA		
Test Result	:	■ **Positive** ☐ **Negative**		
Total pages including Appendices	:	**190**		

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1 Table of Contents

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
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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, Nantou Checkpoint Road 2, Nanshan District Shenzhen 518052 P.R. China
Telephone:	86 755 8828 6998
Fax:	86 755 8828 5299
FCC Registration No.:	514049
FCC Designation Number:	CA5009
IC Registration No.:	10320A

3 Description of the Equipment Under Test

Product:	Z CAM IPMAN AMBR
Model no.:	AM001
FCC ID:	2AENNZCAMAMBR2107
Options and accessories:	HDMI Cable and Type-C Cable
Rating:	6.2V-18VDC, 1.5A
RF Transmission Frequency:	5180MHz-5240MHz, 5745MHz – 5825MHz for 5GHz
Modulation:	802.11a: BPSK, QPSK, 16QAM, 64QAM 802.11n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Antenna Type:	Integrated antenna
Antenna Gain:	Ant 0: 2.4G=4.43 dBi, 5G=4.59 dBi Ant 1: 2.4G=4.22 dBi, 5G=5.33 dBi
Description of the EUT:	The equipment supports Bluetooth Low Energy/Bluetooth BR+EDR /WIFI functions. The TX and RX range is 2402MHz-2480MHz for Bluetooth, 2412MHz – 2462MHz for 2.4GHz Wi-Fi, 5180MHz – 5240MHz, 5745MHz – 5825MHz for 5GHz Wi-Fi. Only 5GWiFi included in this report.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart E, 10-1-2020 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
ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices
KDB 662911 D01 Multiple Transmitter Output v02r01

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5 Summary of Test Results

Technical Requirements				
FCC Part 15 Subpart E				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
15.207 Conducted Emission AC Power Port	10	☒	☐	☐
15.407(e) Emission bandwidth	13	☒	☐	☐
15.407(a) Maximum Conducted Output Power	64	☒	☐	☐
15.407(a)Peak Power Spectral Density	67	☒	☐	☐
15.407(b)(1) 15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209 Unwanted Emissions	89	☒	☐	☐
Duty Cycle	184	☒	☐	☐
15.407(g) Frequencies Stability	186	☒	☐	☐
15.407(h) Dynamic Frequency Selection (DFS).[a]	--	☐	☐	☒

NOTE 1“a”: This product only supports 5150-5250MHz and 5725-5850MHz, so DFS is not applicable.

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6 General Remarks

Remarks
This submittal(s) (test report) is intended for FCC ID: 2AENNZCAMAMBR2107, complies with Section FCC Part 15 Subpart C Rules and 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:	2021-06-03
Testing Start Date:	2021-06-04
Testing End Date:	2021-07-23

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

Reviewed by:	Prepared by:	Tested by:
John Zhi	Warlen Song	Carry Cai
Project Manager	Project Engineer	Test Engineer

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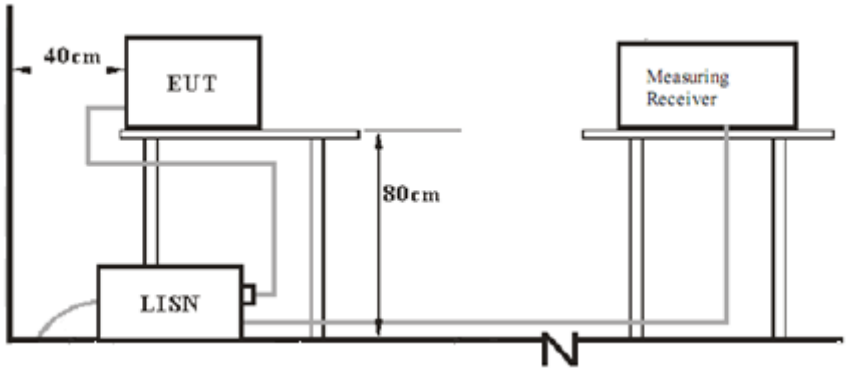
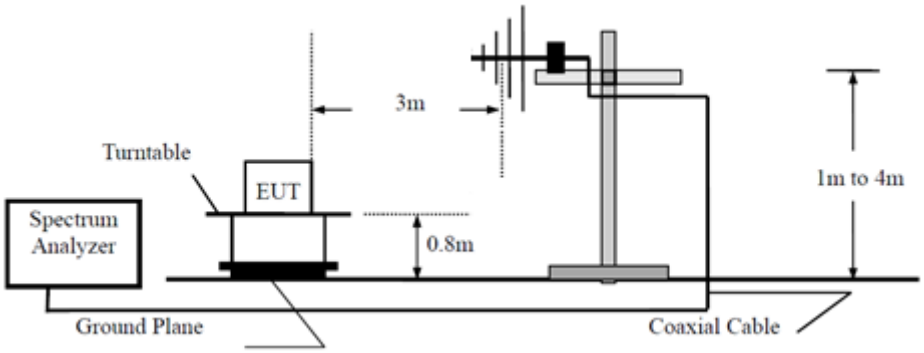
7 Test setups

7.1 AC Power Line Conducted Emission test setups

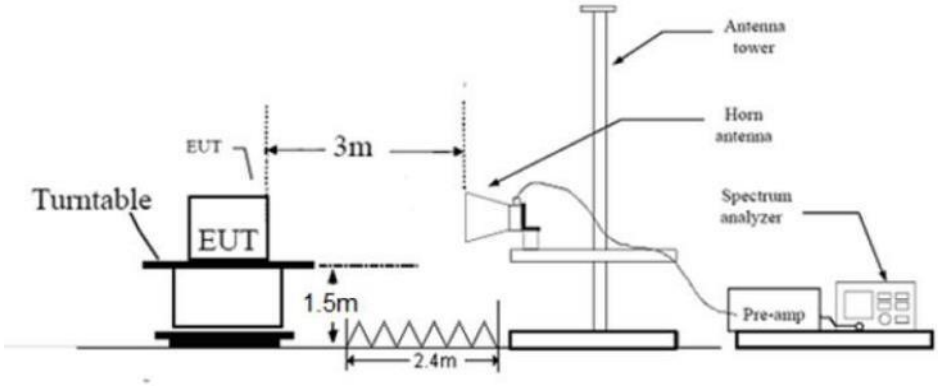


7.2 Radiated test setups

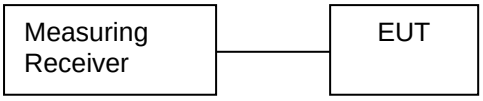
Below 1GHz



Above 1GHz



7.3 Conducted RF test setups



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8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
PC	Lenovo	X240	---

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	MCS0
802.11n HT40	MCS0
802.11ac HT20	MCS0
802.11ac HT40	MCS0
802.11ac HT80	MCS0

The system was configured to the following channels

Modulation	Channel	Frequency (MHz)
802.11a / 802.11n20 / 802.11ac20	36	5180
	44	5220
	48	5240
	149	5745
	157	5785
	165	5825
802.11n40 / 802.11ac40	38	5190
	46	5230
	151	5755
	159	5795
802.11ac80	42	5210
	155	5775

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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

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

*Decreases with the logarithm of the frequency.

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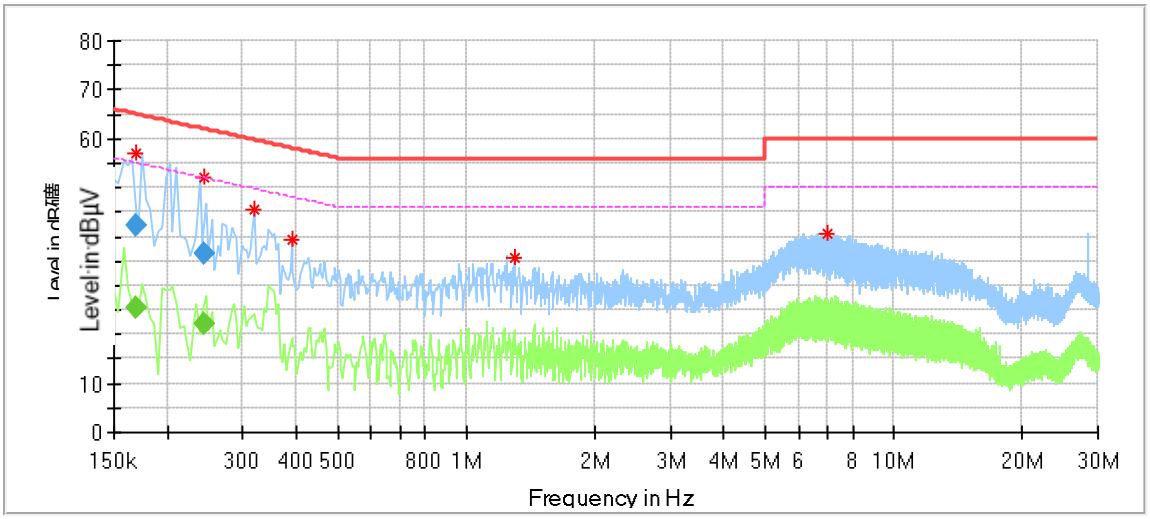
Conducted Emission

Product Type	:	Z CAM IPMAN AMBR
M/N	:	AM001
Operating Condition	:	Charging + Transmit
Test Specification	:	Power Line, Live
Comment	:	AC 120V/60Hz (External adapter)



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.169500	56.86	---	64.77	7.91	L1	9.64
0.242500	52.24	---	62.17	9.93	L1	9.64
0.318000	45.46	---	59.76	14.29	L1	9.64
0.390000	39.41	---	58.06	18.66	L1	9.64
1.294000	35.83	---	56.00	20.17	L1	9.67
6.966000	40.77	---	60.00	19.23	L1	9.83

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.169500	---	25.30	54.99	29.68	L1	9.64
0.169500	42.43	---	64.99	22.55	L1	9.64
0.242500	---	22.06	52.01	29.95	L1	9.64
0.242500	36.61	---	62.01	25.40	L1	9.64

Remark：
Level=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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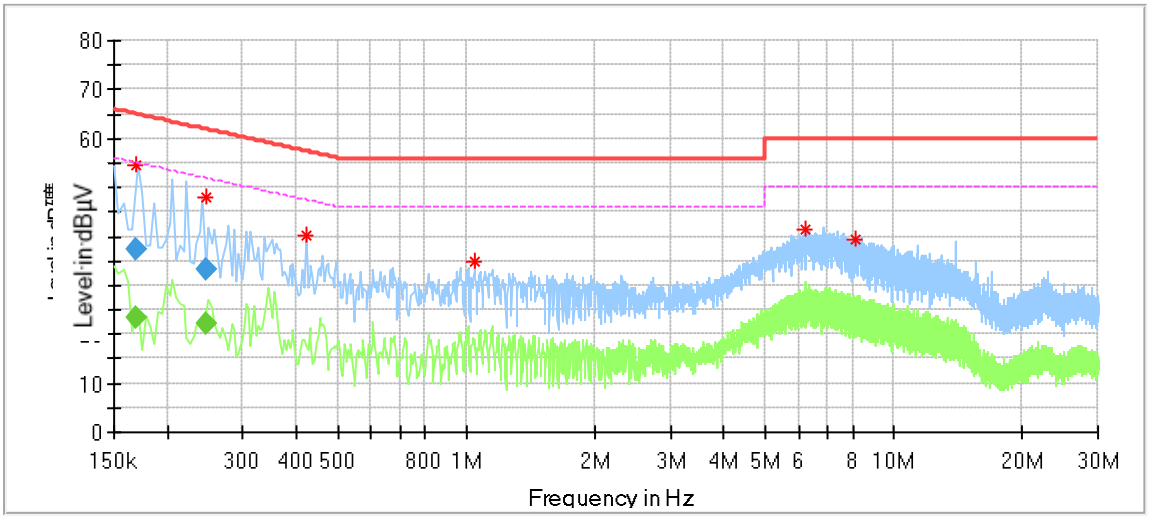
Conducted Emission

Product Type	:	Z CAM IPMAN AMBR
M/N	:	AM001
Operating Condition	:	Charging + Transmit
Test Specification	:	Power Line, Neutral
Comment	:	AC 120V/60Hz (External adapter)



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.169500	54.68	---	64.96	10.28	N	9.62
0.245500	47.85	---	62.03	14.18	N	9.63
0.422000	40.30	---	57.41	17.10	N	9.63
1.046000	34.73	---	56.00	21.27	N	9.65
6.206000	41.32	---	60.00	18.68	N	9.80
8.170000	39.28	---	60.00	20.72	N	9.85

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.169500	---	23.58	54.99	31.40	N	9.62
0.169500	37.39	---	64.99	27.59	N	9.62
0.245500	---	22.21	51.91	29.70	N	9.63
0.245500	33.18	---	61.91	28.73	N	9.63

Remark：
Level=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 C63.10

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 C63.10

a) Set RBW = 100KHz
b) Set the video bandwidth (VBW) ≥ 3 × RBW
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) 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 C63.10

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) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
f) Use the 99 % power bandwidth function of the instrument (if available).
g) If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Limit: No limit

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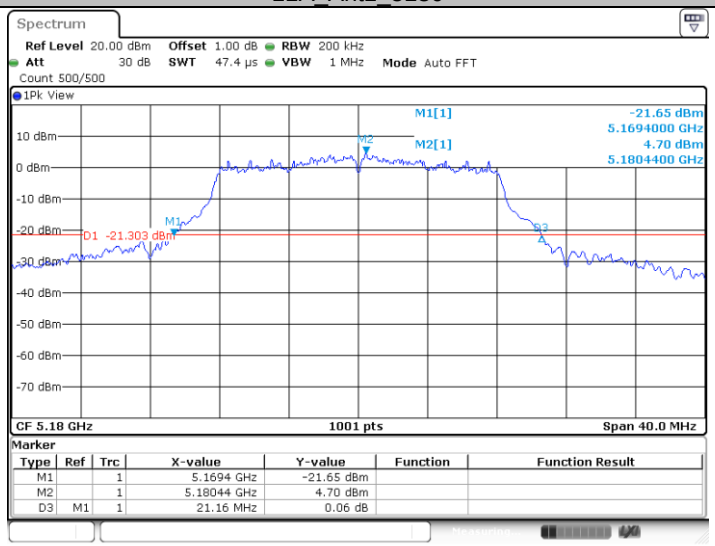
26dB Bandwidth Test result:

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.160	5169.400	5190.560	---	PASS
	Ant2	5180	21.600	5168.960	5190.560	---	PASS
	Ant1	5200	21.200	5189.320	5210.520	---	PASS
	Ant2	5200	21.800	5188.760	5210.560	---	PASS
	Ant1	5240	21.000	5229.520	5250.520	---	PASS
	Ant2	5240	21.280	5229.360	5250.640	---	PASS
	Ant1	5745	21.200	5734.360	5755.560	---	PASS
	Ant2	5745	20.920	5734.520	5755.440	---	PASS
	Ant1	5785	20.960	5774.600	5795.560	---	PASS
	Ant2	5785	20.960	5774.600	5795.560	---	PASS
	Ant1	5825	20.960	5814.560	5835.520	---	PASS
	Ant2	5825	21.000	5814.520	5835.520	---	PASS
11N20SISO	Ant1	5180	26.880	5164.600	5191.480	---	PASS
	Ant2	5180	21.640	5169.120	5190.760	---	PASS
	Ant1	5200	25.160	5185.560	5210.720	---	PASS
	Ant2	5200	22.280	5188.360	5210.640	---	PASS
	Ant1	5240	22.320	5228.320	5250.640	---	PASS
	Ant2	5240	22.400	5228.320	5250.720	---	PASS
	Ant1	5745	21.080	5734.440	5755.520	---	PASS
	Ant2	5745	21.360	5734.280	5755.640	---	PASS
	Ant1	5785	21.480	5774.200	5795.680	---	PASS
	Ant2	5785	21.360	5774.400	5795.760	---	PASS
	Ant1	5825	21.280	5814.320	5835.600	---	PASS
	Ant2	5825	21.040	5814.440	5835.480	---	PASS
11N40SISO	Ant1	5190	56.480	5161.280	5217.760	---	PASS
	Ant2	5190	41.680	5168.240	5209.920	---	PASS
	Ant1	5230	40.160	5209.840	5250.000	---	PASS
	Ant2	5230	39.600	5210.320	5249.920	---	PASS
	Ant1	5755	40.160	5735.000	5775.160	---	PASS
	Ant2	5755	39.680	5735.240	5774.920	---	PASS
	Ant1	5795	40.240	5775.000	5815.240	---	PASS
	Ant2	5795	39.520	5775.320	5814.840	---	PASS
11AC20SISO	Ant1	5180	22.480	5168.160	5190.640	---	PASS
	Ant2	5180	24.320	5166.480	5190.800	---	PASS
	Ant1	5200	21.920	5188.920	5210.840	---	PASS
	Ant2	5200	26.640	5185.040	5211.680	---	PASS
	Ant1	5240	21.480	5229.120	5250.600	---	PASS
	Ant2	5240	26.440	5226.480	5252.920	---	PASS
	Ant1	5745	21.400	5734.240	5755.640	---	PASS
	Ant2	5745	21.200	5734.400	5755.600	---	PASS
	Ant1	5785	21.400	5774.400	5795.800	---	PASS
	Ant2	5785	21.440	5774.160	5795.600	---	PASS
	Ant1	5825	21.320	5814.240	5835.560	---	PASS
	Ant2	5825	21.280	5814.400	5835.680	---	PASS
11AC40SISO	Ant1	5190	40.560	5169.760	5210.320	---	PASS
	Ant2	5190	39.840	5170.160	5210.000	---	PASS
	Ant1	5230	41.520	5208.560	5250.080	---	PASS
	Ant2	5230	49.280	5201.200	5250.480	---	PASS
	Ant1	5755	40.240	5734.840	5775.080	---	PASS
	Ant2	5755	39.600	5735.240	5774.840	---	PASS
	Ant1	5795	40.320	5775.000	5815.320	---	PASS
	Ant2	5795	39.600	5775.240	5814.840	---	PASS
11AC80SISO	Ant1	5210	85.920	5165.040	5250.960	---	PASS
	Ant2	5210	83.040	5168.880	5251.920	---	PASS
	Ant1	5775	82.080	5734.040	5816.120	---	PASS
	Ant2	5775	81.120	5734.520	5815.640	---	PASS

11A_Ant1_5180



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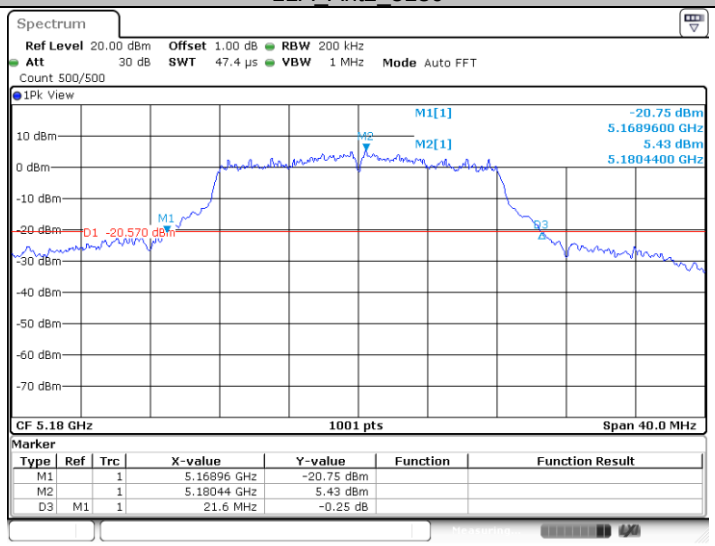

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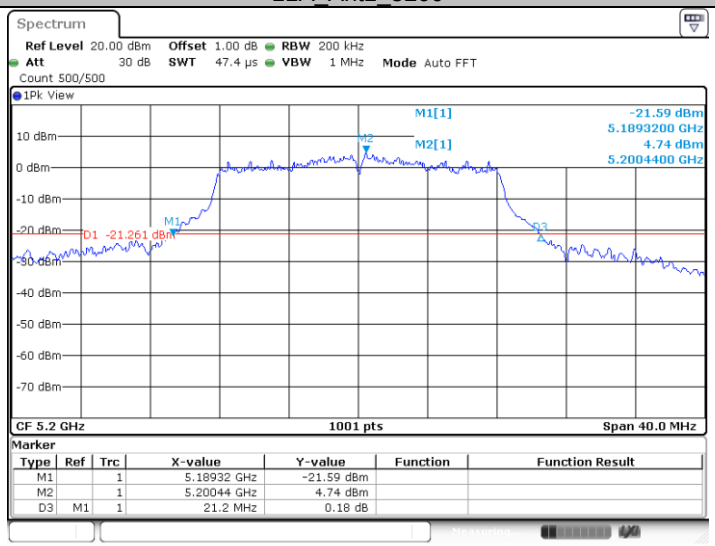

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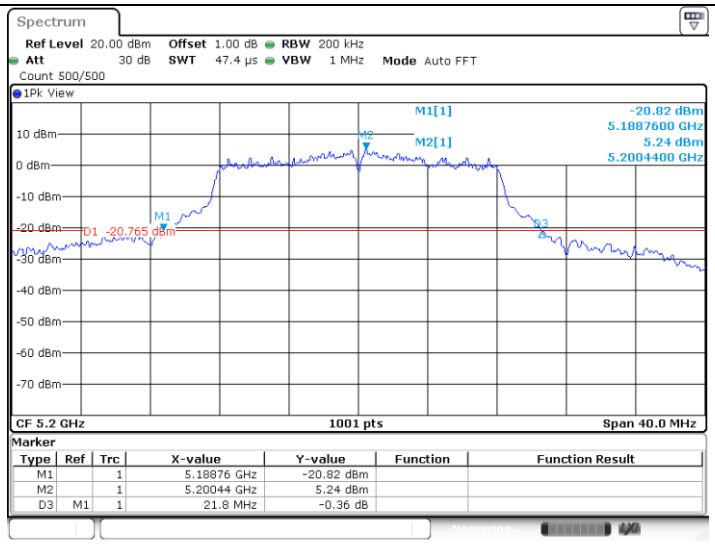

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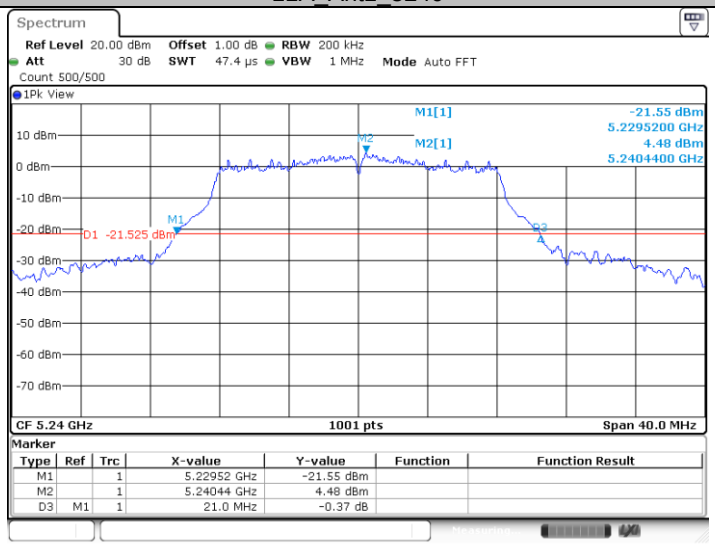

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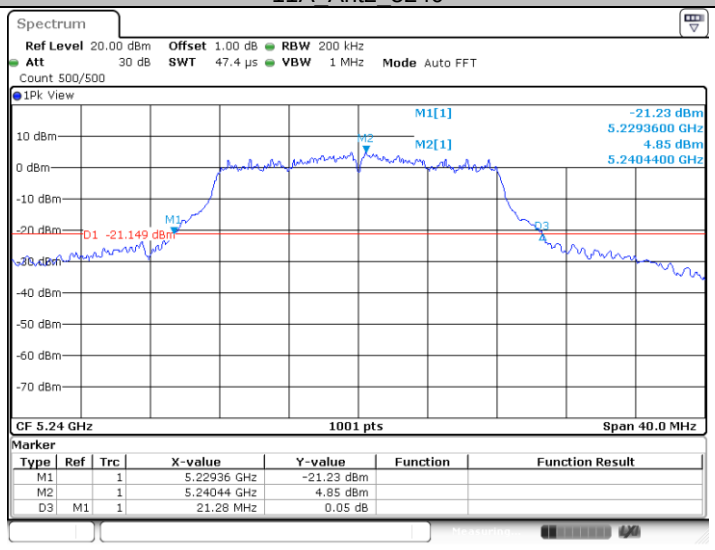

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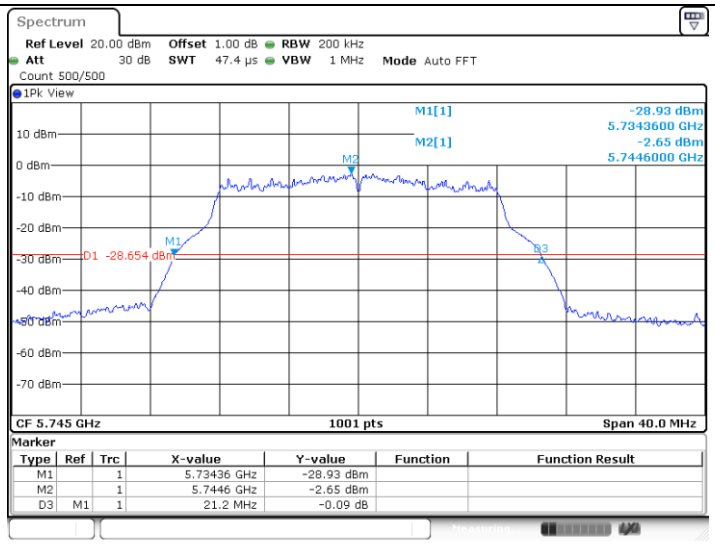

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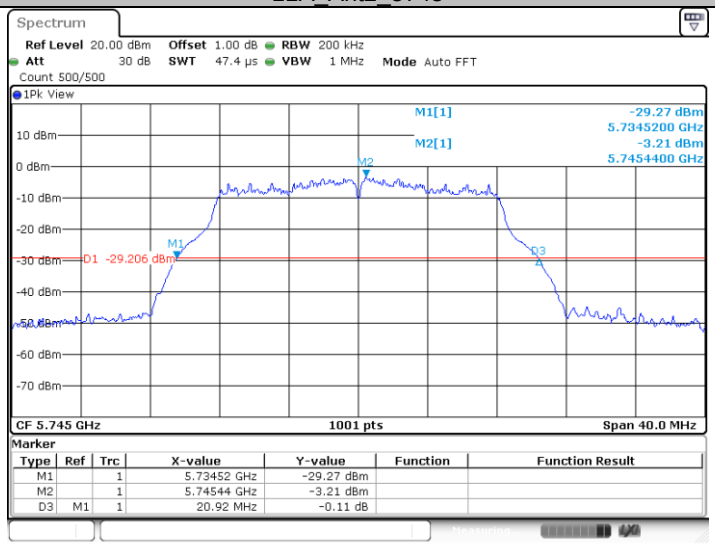

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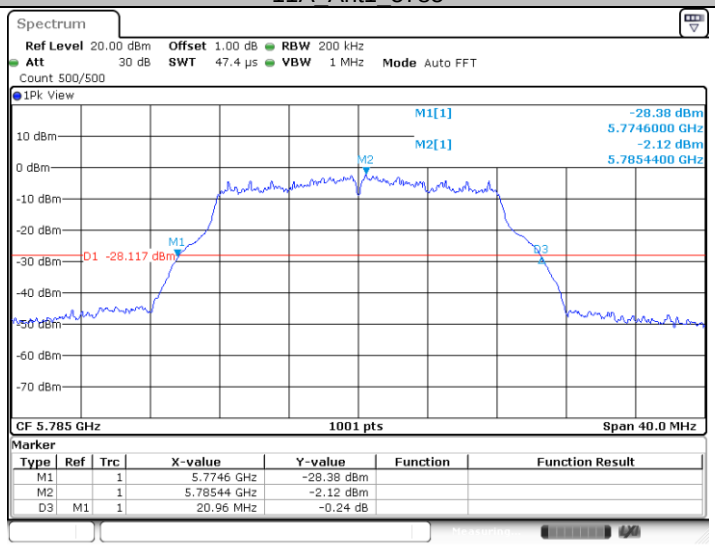
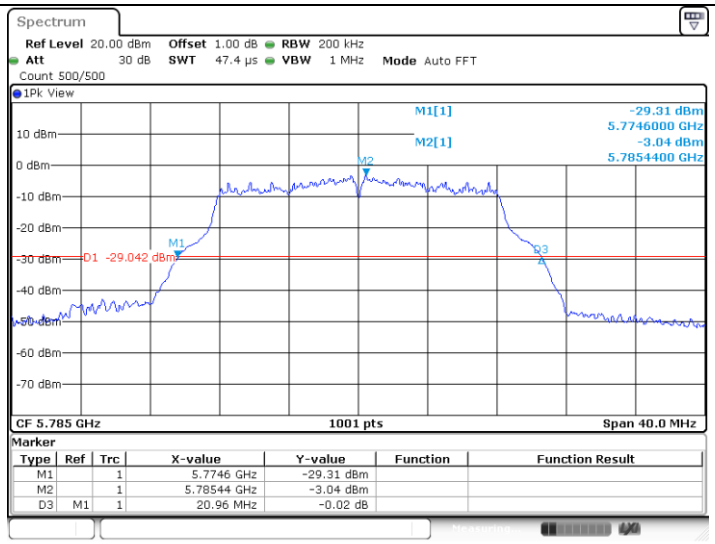
11A_Ant1_5785



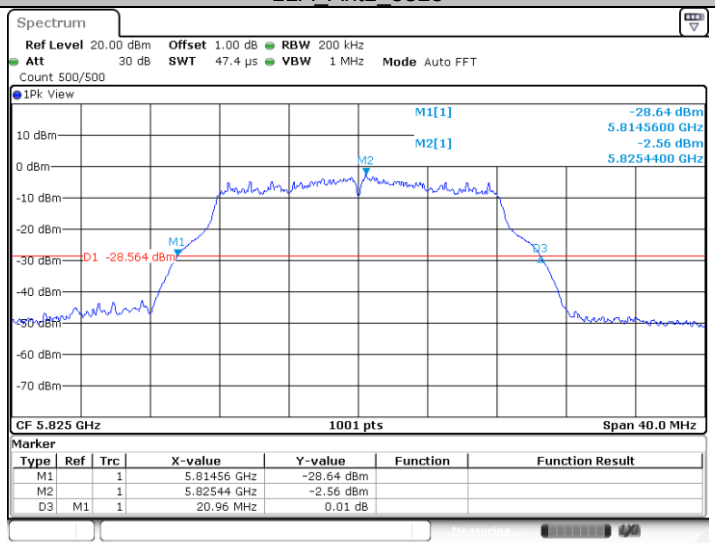
Date: 28.JUN.2021 15:59:25

11A_Ant2_5785



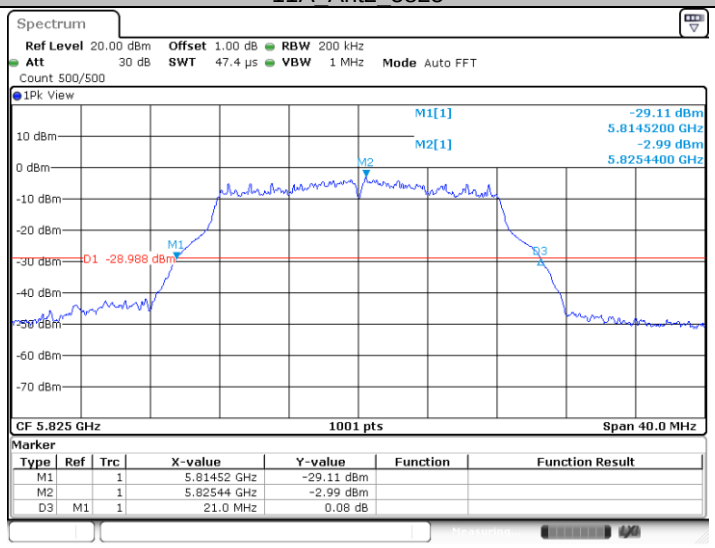
Date: 28.JUN.2021 16:05:32

11A_Ant1_5825



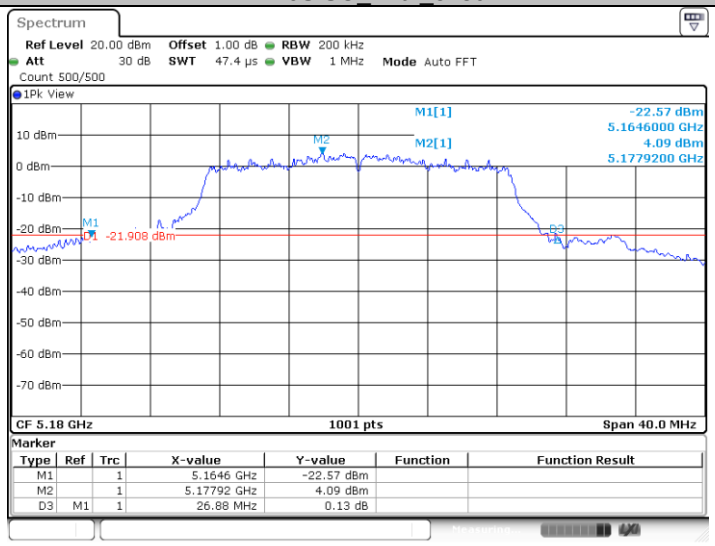
Date: 28.JUN.2021 16:01:25

11A_Ant2_5825



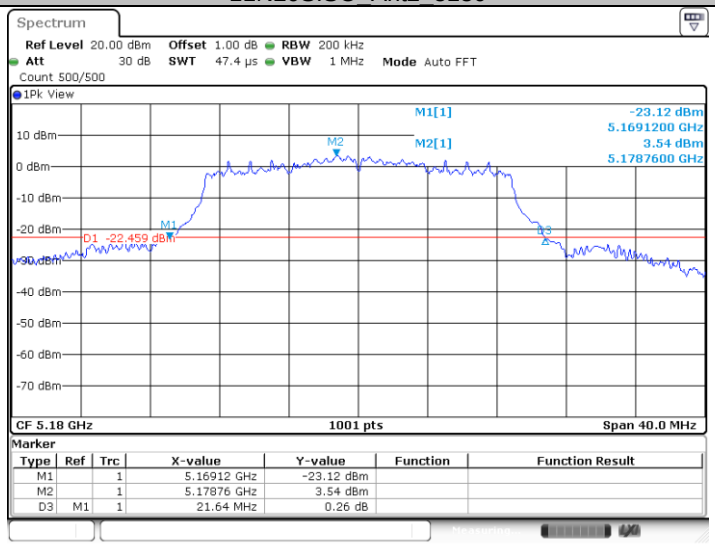
Date: 28.JUN.2021 16:07:47

11N20SISO_Ant1_5180



Date: 24.JUN.2021 17:35:06

11N20SISO_Ant2_5180



Date: 24.JUN.2021 19:01:34

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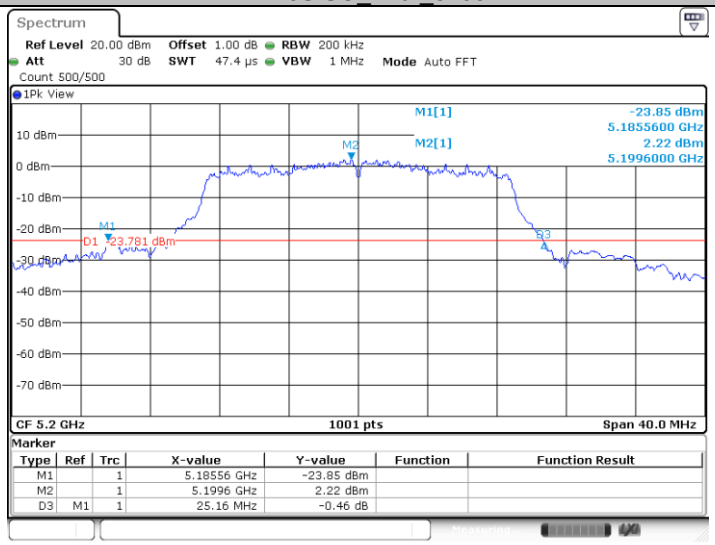

Date: 24.JUN.2021 17:37:24

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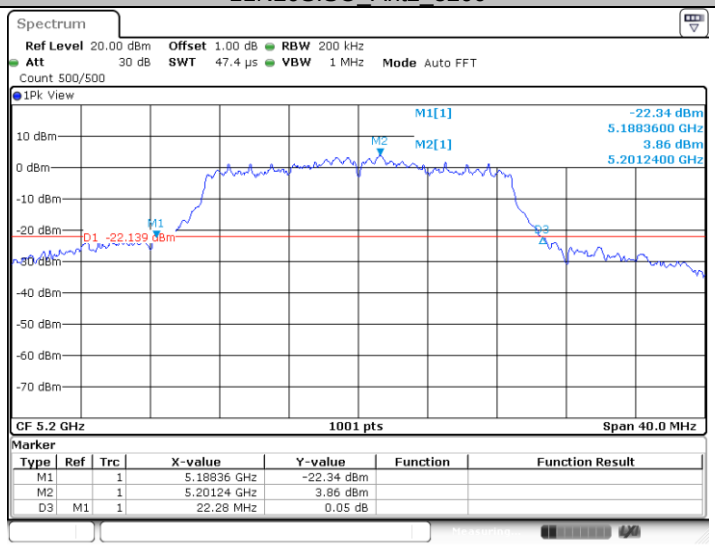
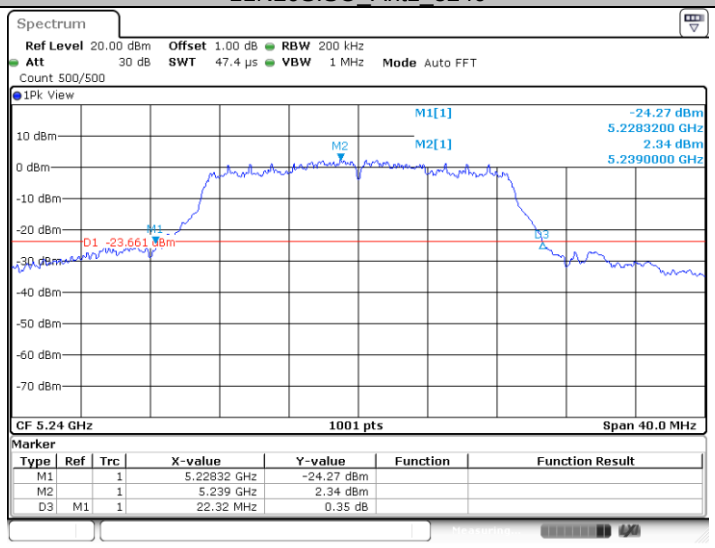
Shenzhen City, 518052, P. R. China Tel. +86 755 8828 6998, Fax: +86 755 8828 5299

11N20SISO_Ant2_5200



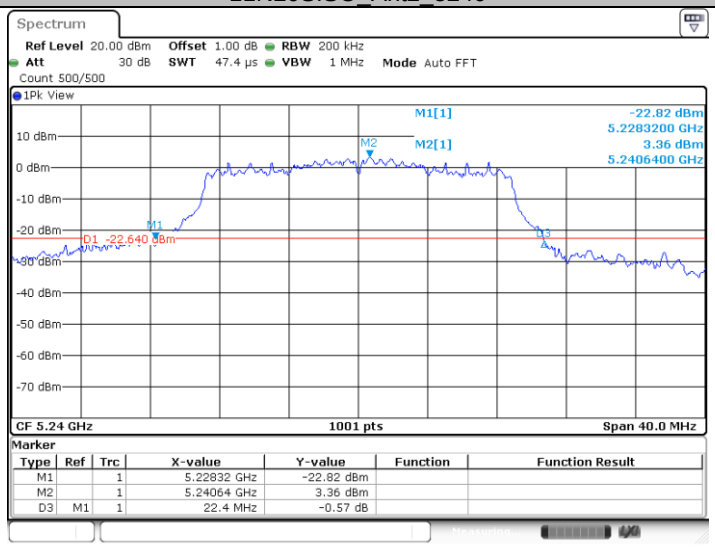
Date: 24.JUN.2021 19:03:20

11N20SISO_Ant1_5240



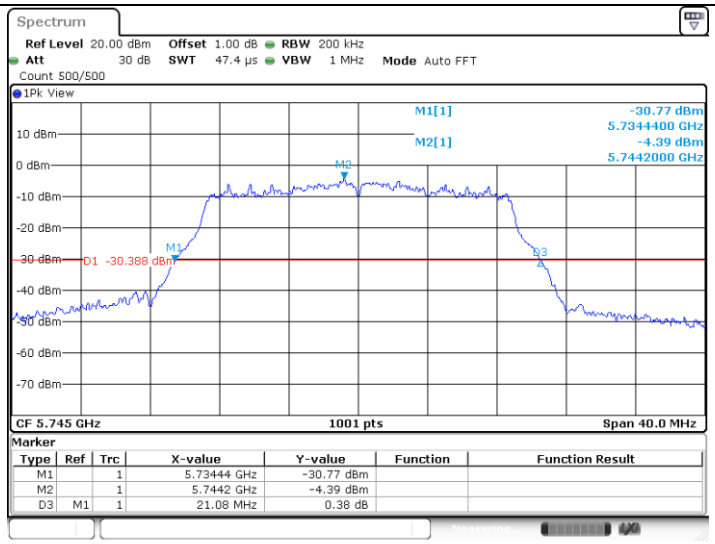
Date: 24.JUN.2021 17:39:02

11N20SISO_Ant2_5240



Date: 24.JUN.2021 19:04:51

11N20SISO_Ant1_5745



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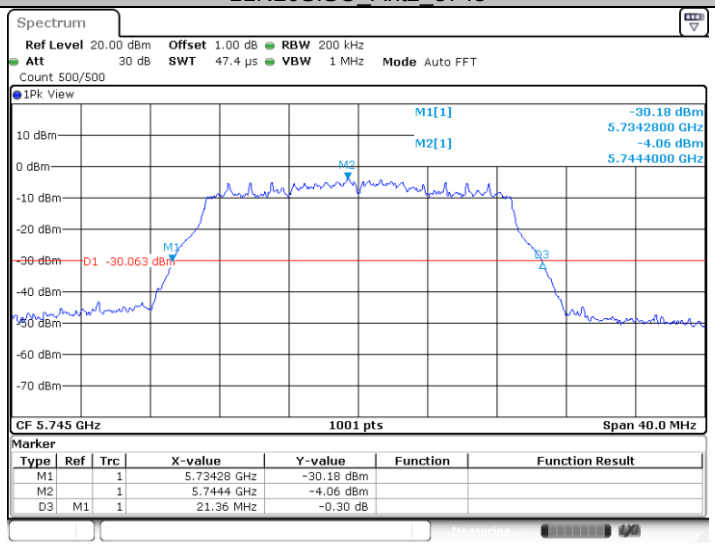

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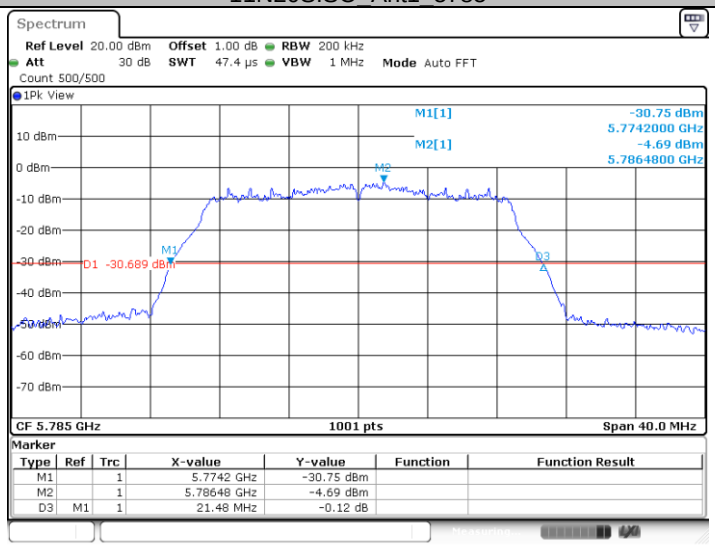

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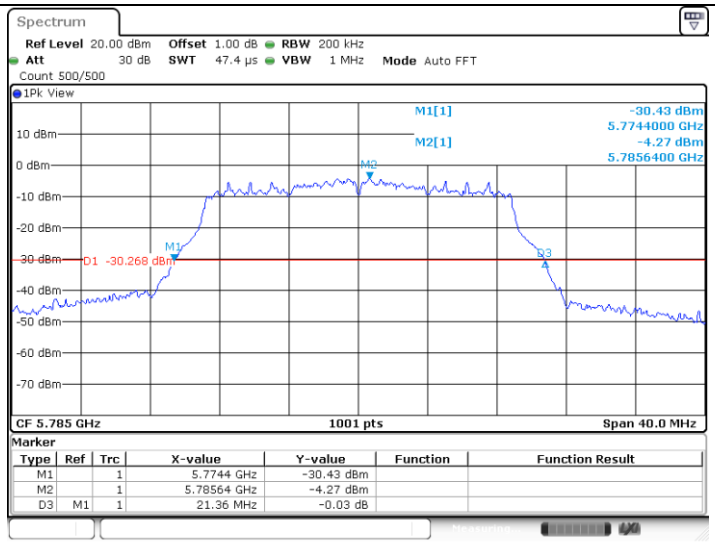
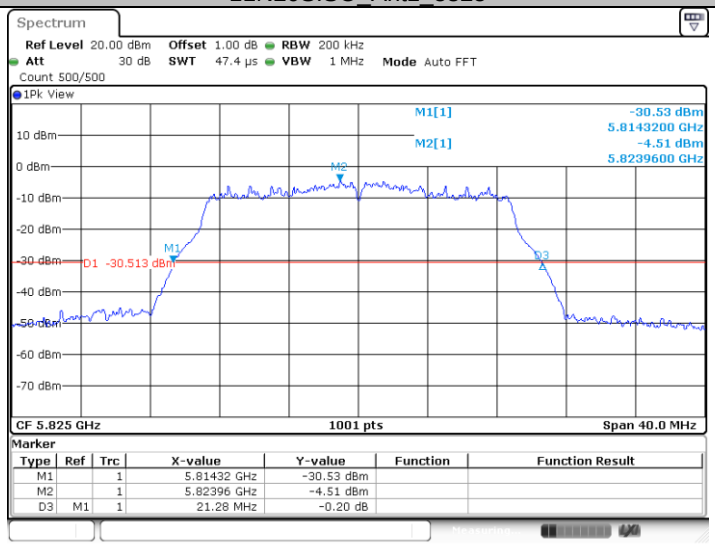


11N20SISO_Ant1_5825



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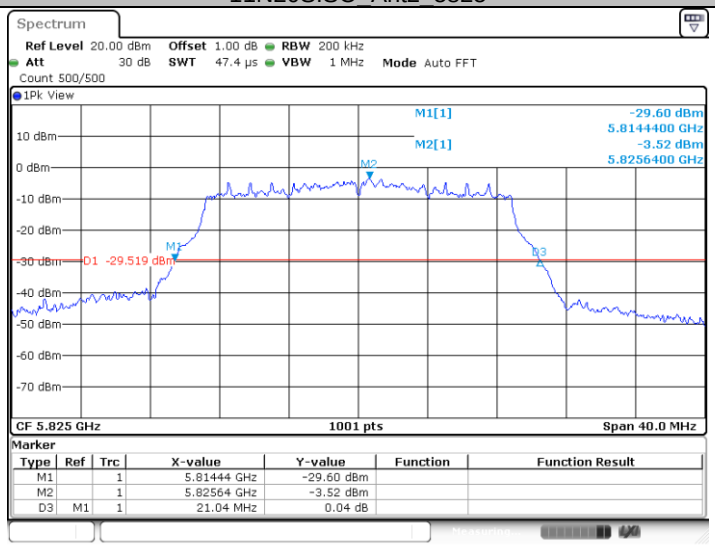

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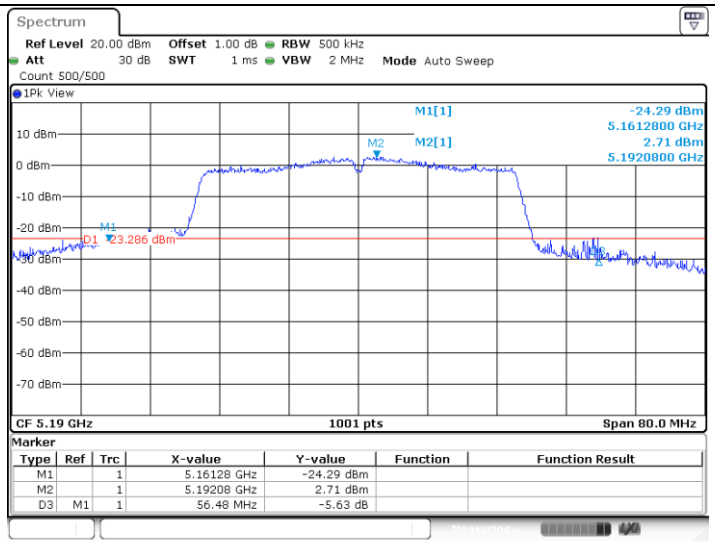

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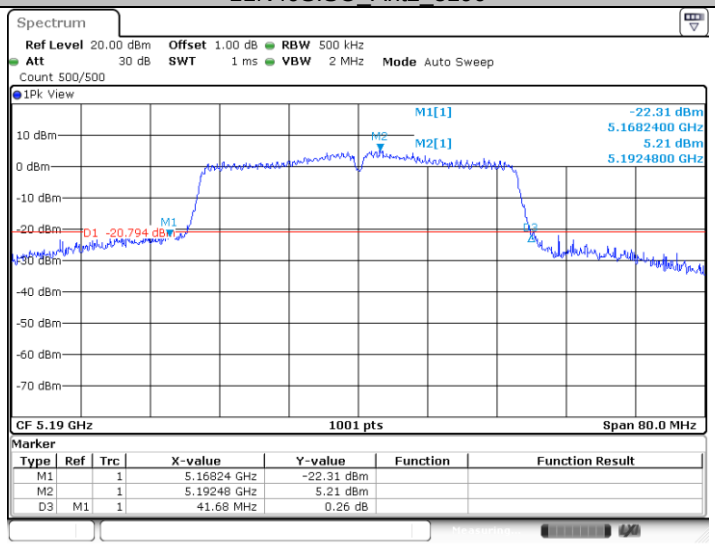

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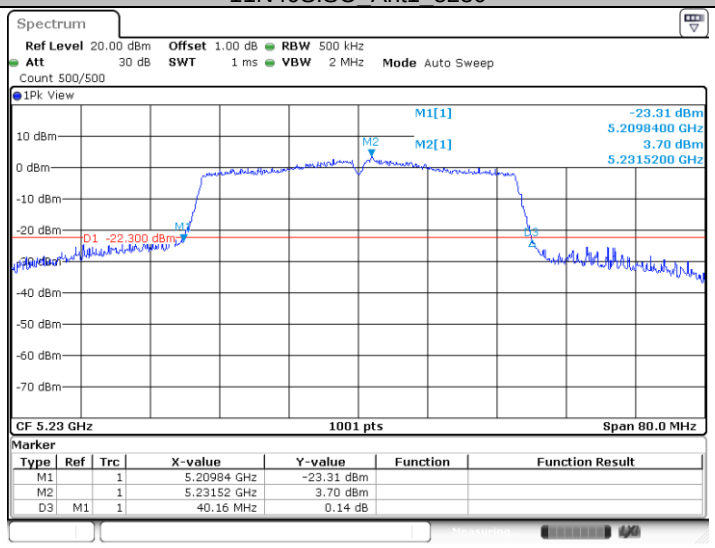

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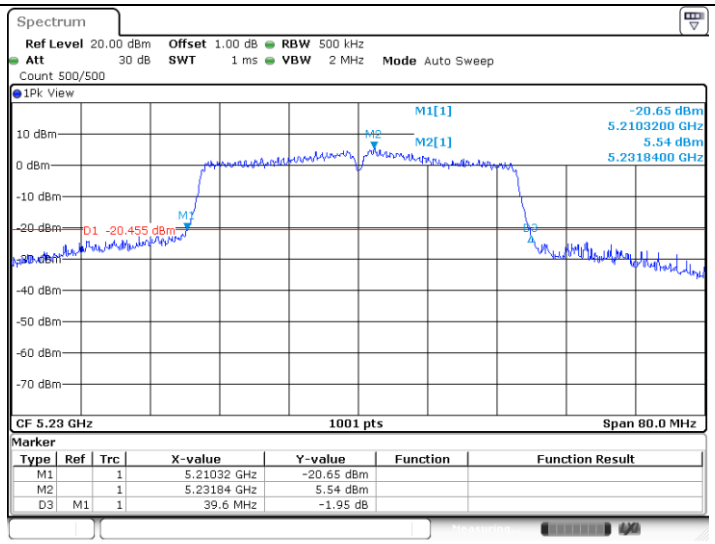

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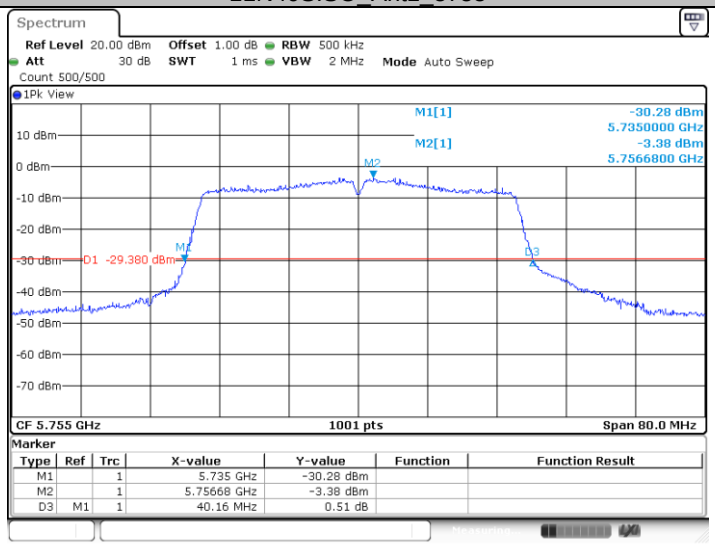

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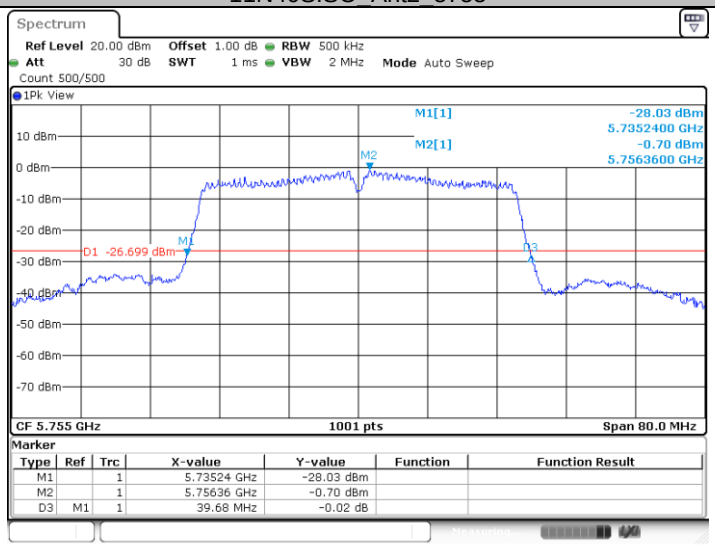

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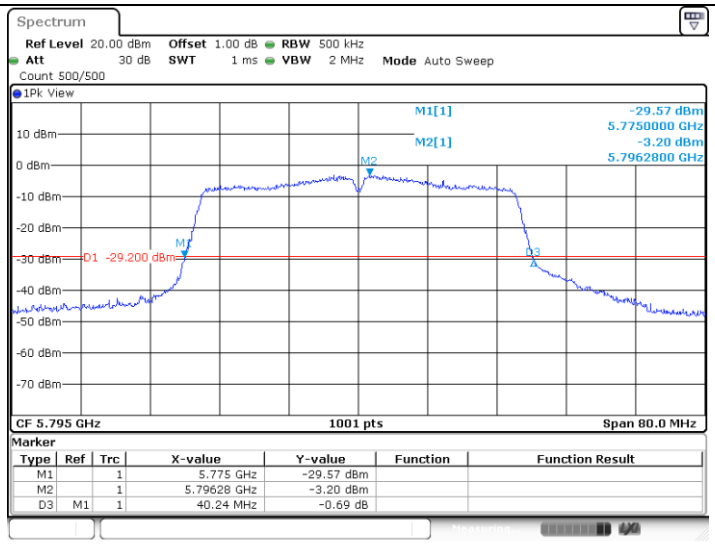

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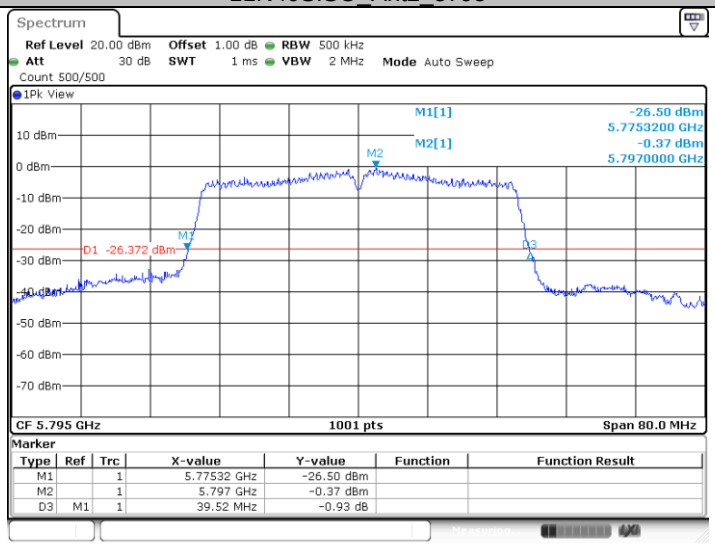

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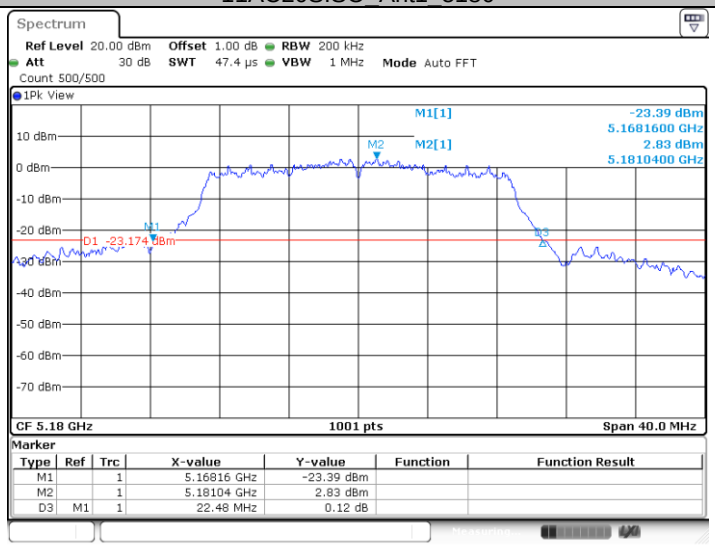

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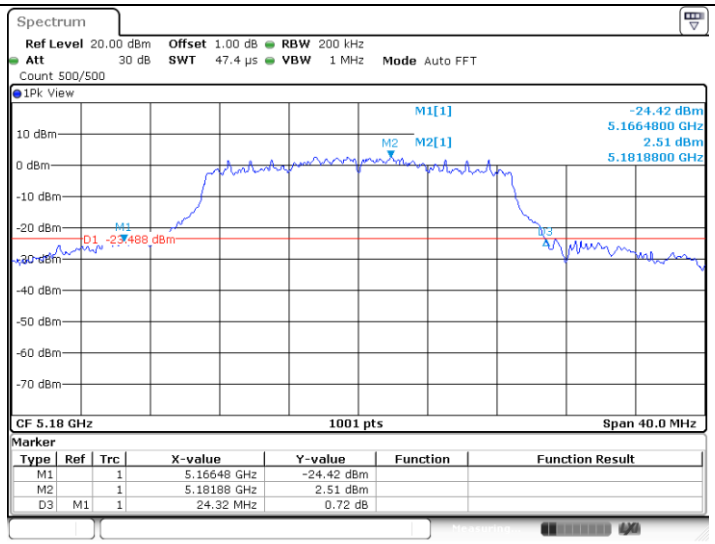

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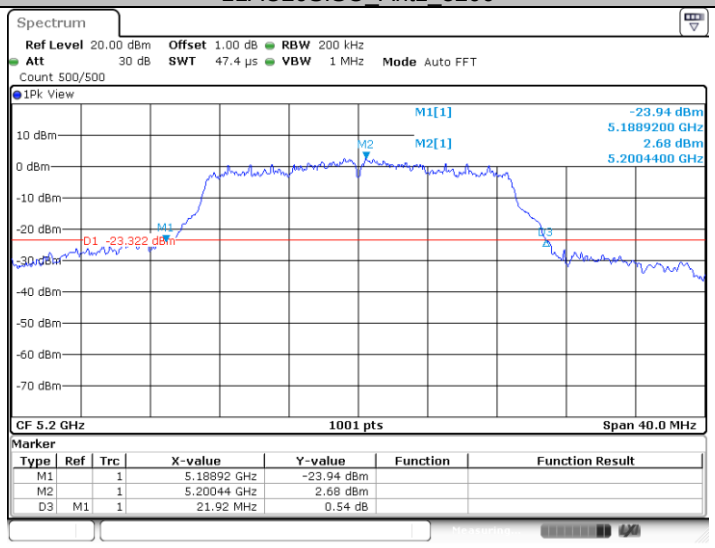

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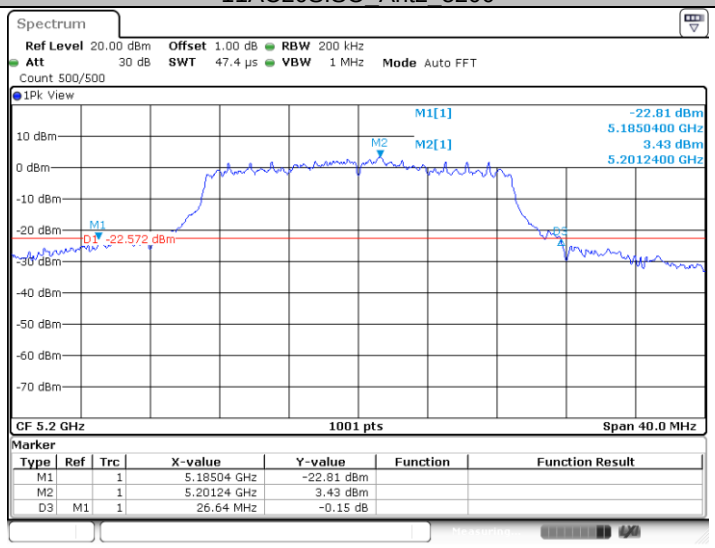

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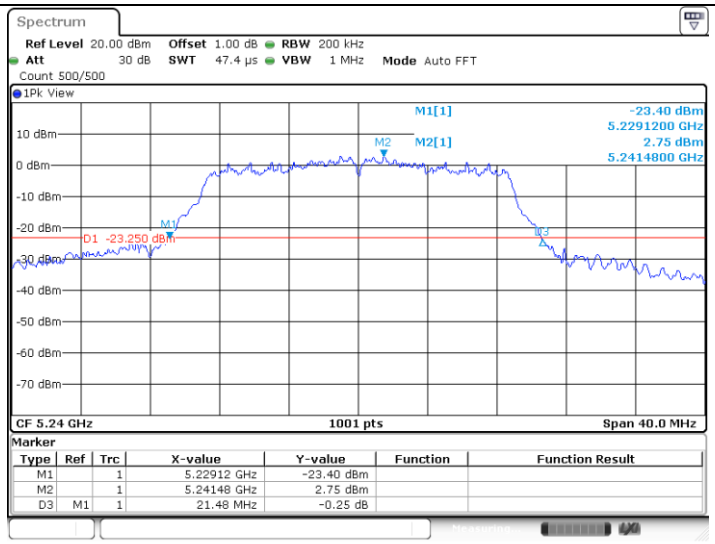

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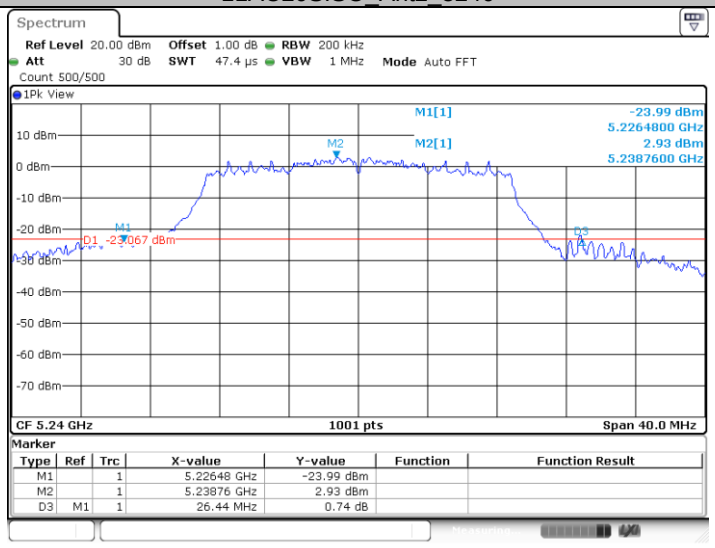

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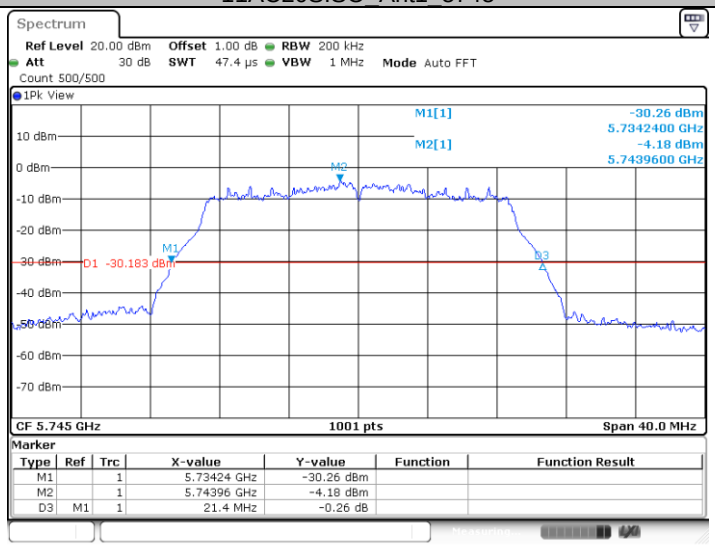

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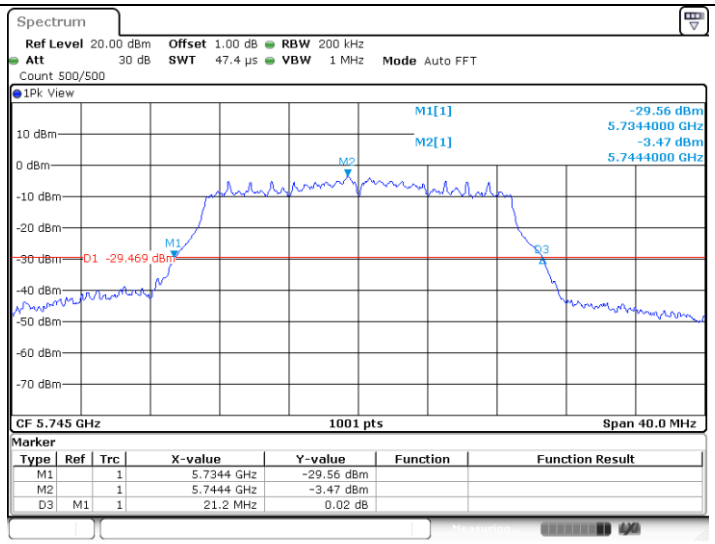

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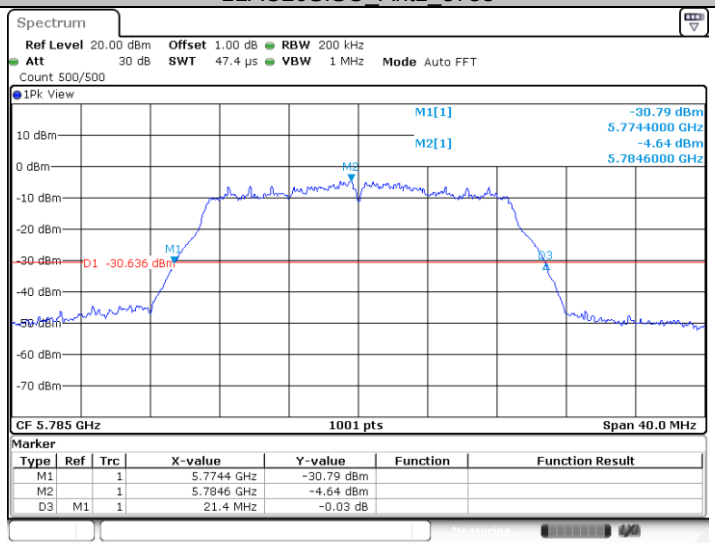

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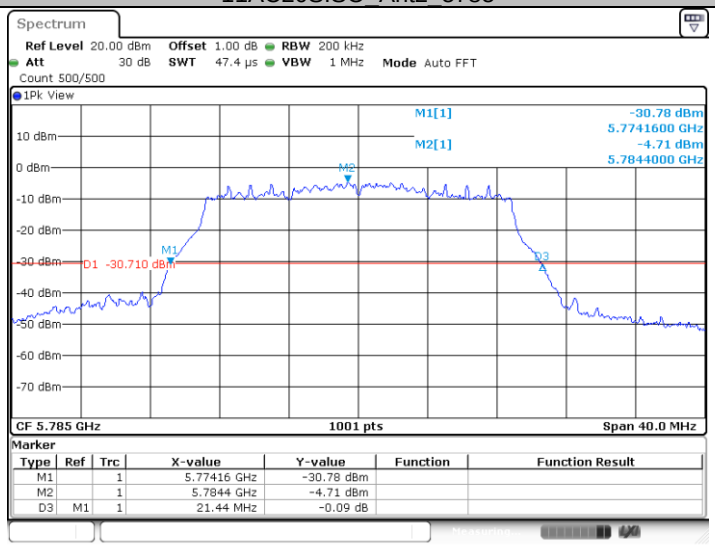

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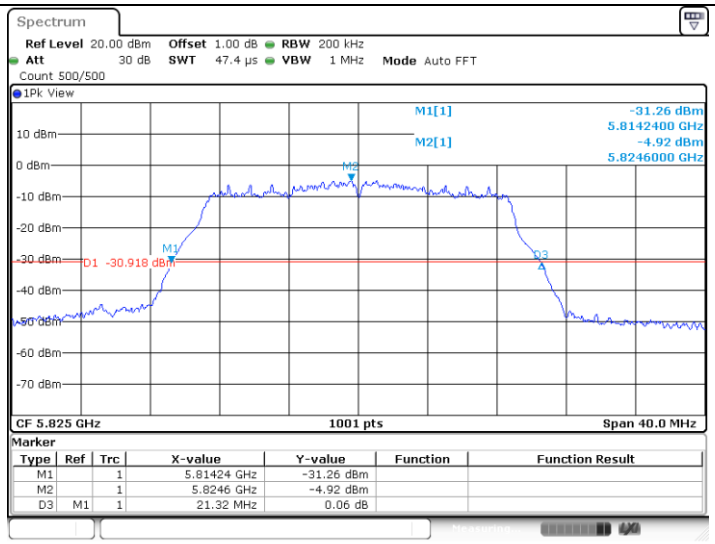

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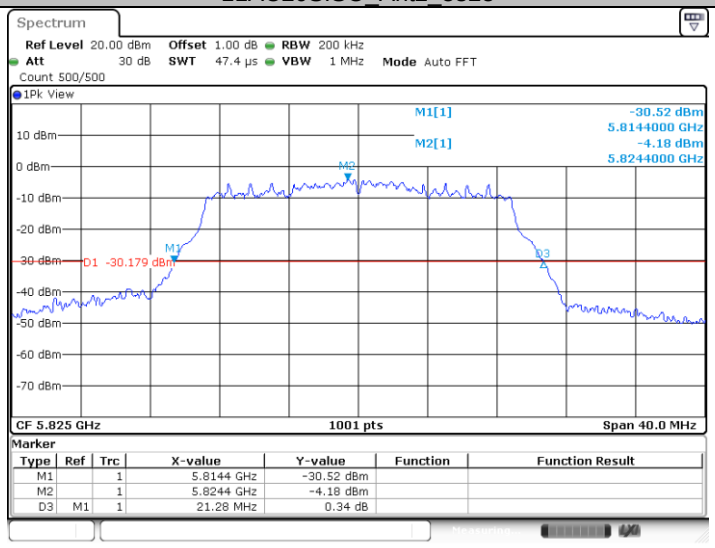

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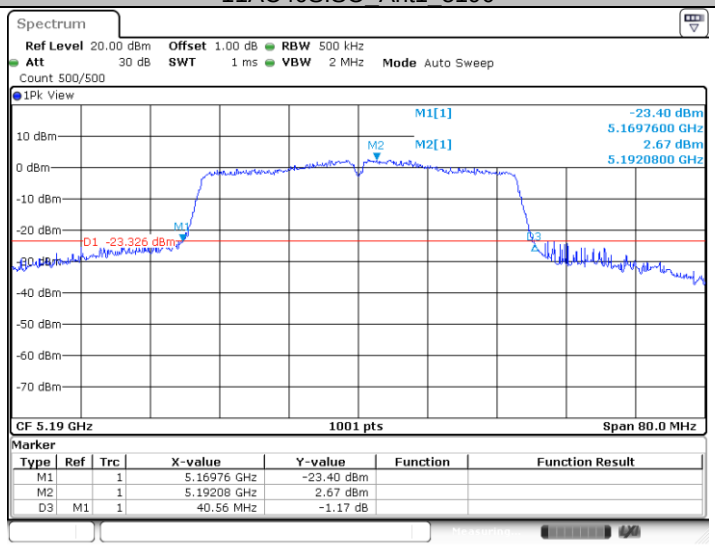

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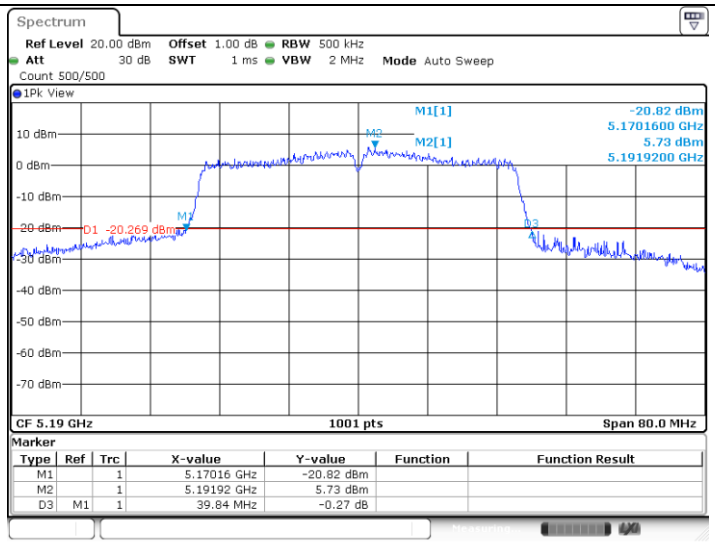

Date: 24.JUN.2021 19:38:05

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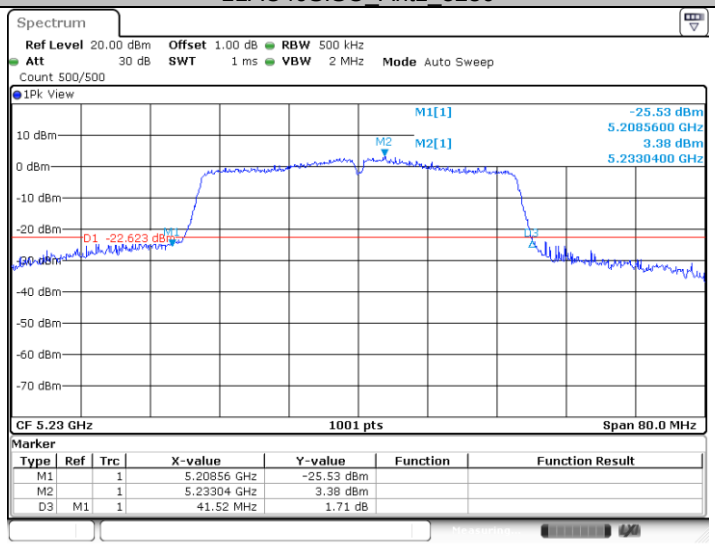

Date: 24.JUN.2021 18:43:25

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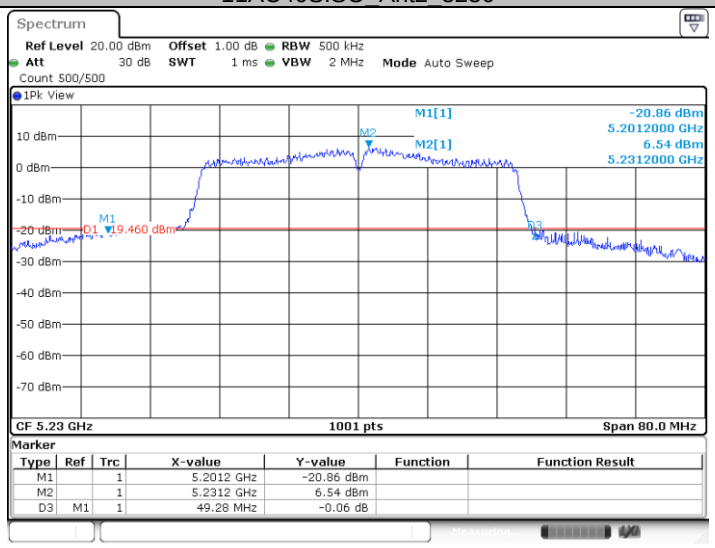

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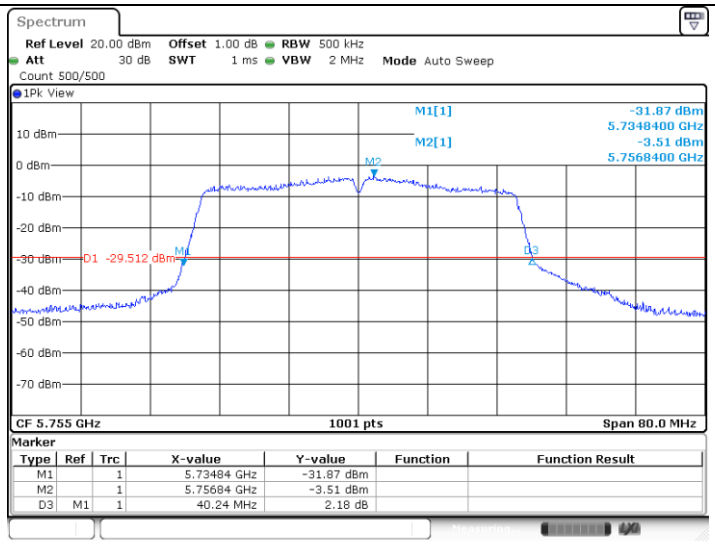

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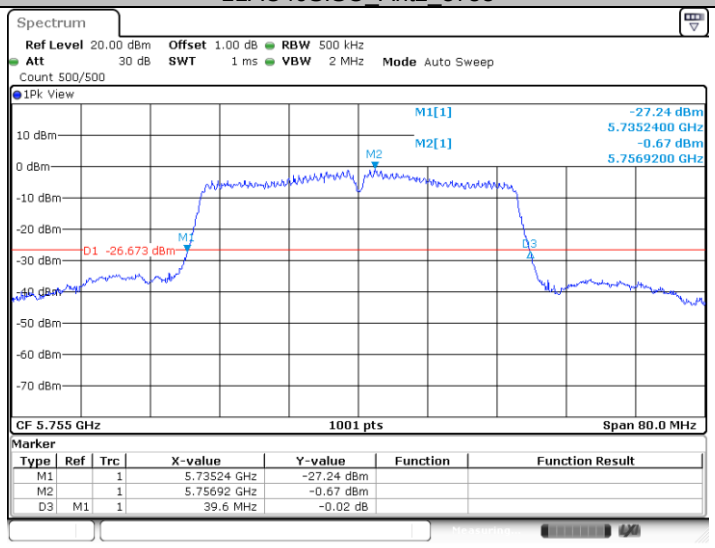

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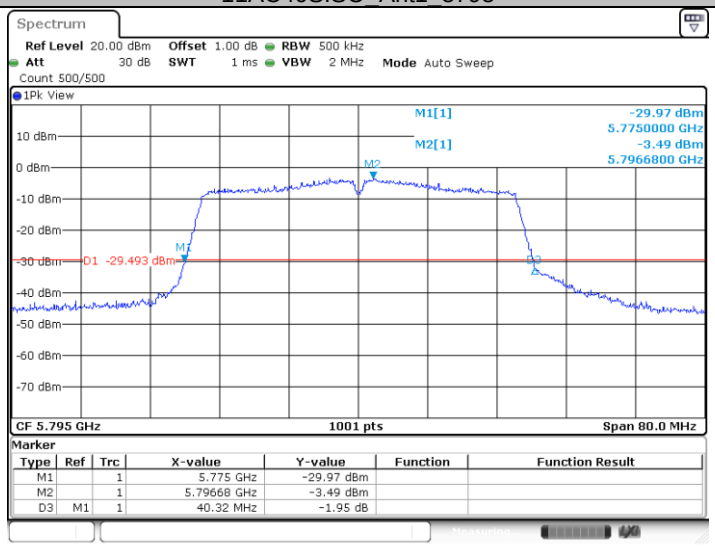

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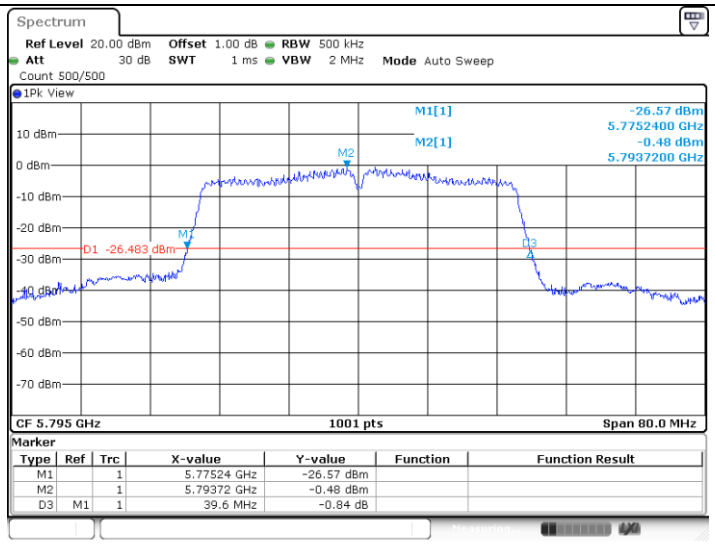

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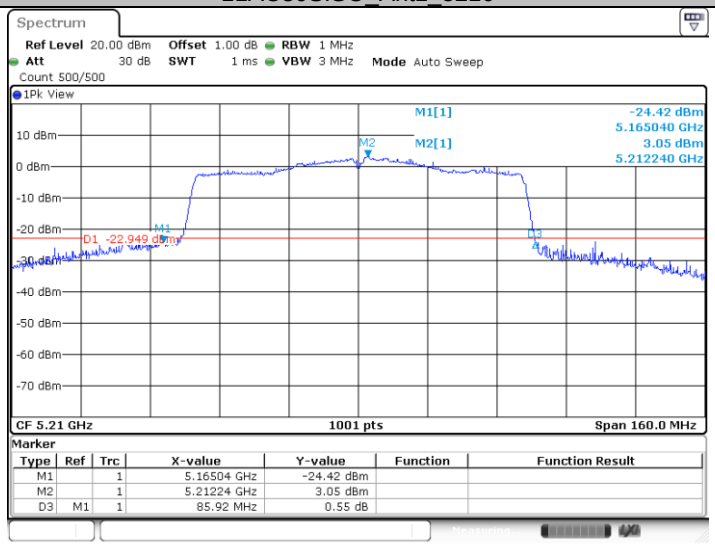

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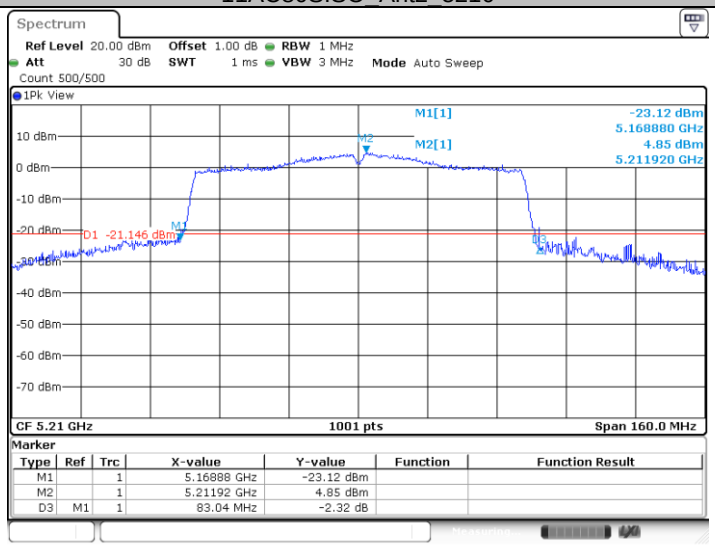

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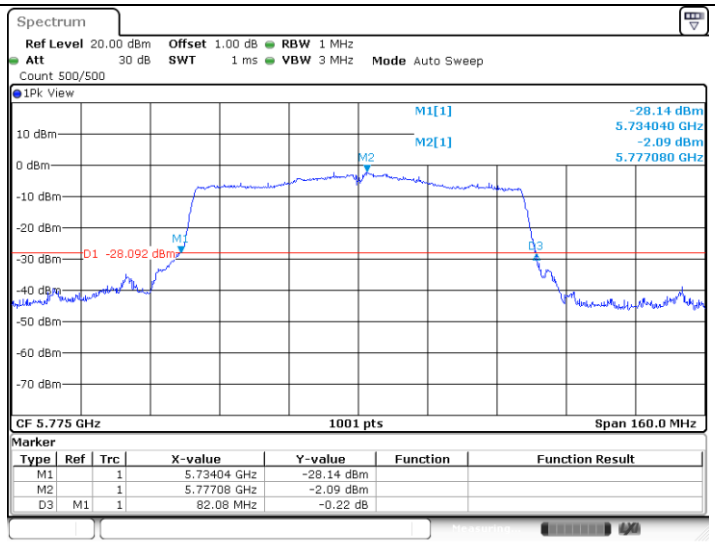

Date: 28.JUN.2021 16:40:09

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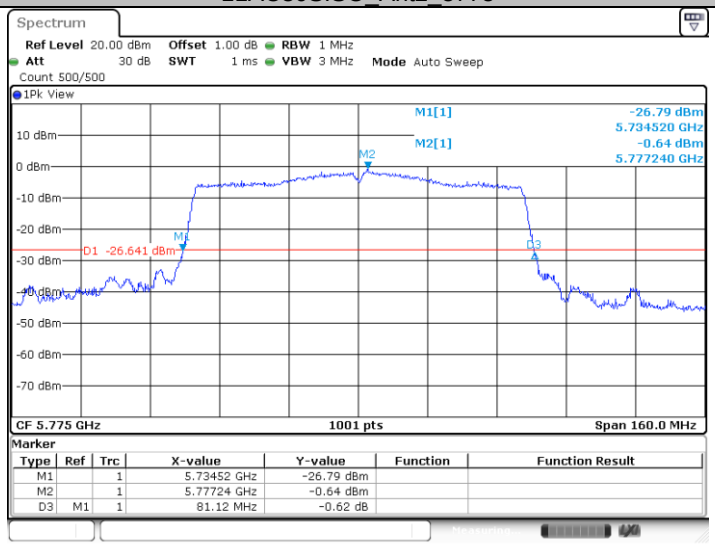

Date: 28.JUN.2021 17:08:23

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu Nantou, Nanshan District,
Shenzhen City, 518052, P. R. China Tel. +86 755 8828 6998, Fax: +86 755 8828 5299

99% Bandwidth Test result:

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.822	5171.049	5188.871	---	PASS
	Ant2	5180	18.102	5170.889	5188.991	---	PASS
	Ant1	5200	18.102	5190.969	5209.071	---	PASS
	Ant2	5200	18.182	5190.849	5209.031	---	PASS
	Ant1	5240	17.742	5231.129	5248.871	---	PASS
	Ant2	5240	17.822	5231.049	5248.871	---	PASS
	Ant1	5745	17.662	5736.129	5753.791	---	PASS
	Ant2	5745	17.622	5736.169	5753.791	---	PASS
	Ant1	5785	17.662	5776.169	5793.831	---	PASS
	Ant2	5785	17.702	5776.169	5793.871	---	PASS
	Ant1	5825	17.702	5816.129	5833.831	---	PASS
	Ant2	5825	17.662	5816.169	5833.831	---	PASS
11N20SISO	Ant1	5180	19.381	5170.170	5189.550	---	PASS
	Ant2	5180	18.222	5170.929	5189.151	---	PASS
	Ant1	5200	18.941	5190.529	5209.471	---	PASS
	Ant2	5200	18.422	5190.769	5209.191	---	PASS
	Ant1	5240	18.901	5230.529	5249.431	---	PASS
	Ant2	5240	18.302	5230.809	5249.111	---	PASS
	Ant1	5745	18.541	5735.729	5754.271	---	PASS
	Ant2	5745	18.022	5736.009	5754.031	---	PASS
	Ant1	5785	18.581	5775.729	5794.311	---	PASS
	Ant2	5785	18.062	5776.009	5794.071	---	PASS
	Ant1	5825	18.541	5815.729	5834.271	---	PASS
	Ant2	5825	18.062	5815.969	5834.031	---	PASS
11N40SISO	Ant1	5190	37.003	5171.459	5208.462	---	PASS
	Ant2	5190	36.763	5171.698	5208.462	---	PASS
	Ant1	5230	36.763	5211.618	5248.382	---	PASS
	Ant2	5230	36.444	5211.778	5248.222	---	PASS
	Ant1	5755	36.683	5736.698	5773.382	---	PASS
	Ant2	5755	36.603	5736.778	5773.382	---	PASS
	Ant1	5795	36.683	5776.778	5813.462	---	PASS
	Ant2	5795	36.523	5776.778	5813.302	---	PASS
11AC20SISO	Ant1	5180	18.981	5170.410	5189.391	---	PASS
	Ant2	5180	18.342	5170.849	5189.191	---	PASS
	Ant1	5200	18.941	5190.529	5209.471	---	PASS
	Ant2	5200	18.462	5190.729	5209.191	---	PASS
	Ant1	5240	18.821	5230.569	5249.391	---	PASS
	Ant2	5240	18.422	5230.729	5249.151	---	PASS
	Ant1	5745	18.581	5735.729	5754.311	---	PASS
	Ant2	5745	18.022	5736.009	5754.031	---	PASS
	Ant1	5785	18.581	5775.729	5794.311	---	PASS
	Ant2	5785	18.062	5776.009	5794.071	---	PASS
	Ant1	5825	18.621	5815.689	5834.311	---	PASS
	Ant2	5825	18.022	5816.009	5834.031	---	PASS
11AC40SISO	Ant1	5190	36.763	5171.698	5208.462	---	PASS
	Ant2	5190	36.683	5171.698	5208.382	---	PASS
	Ant1	5230	36.683	5211.698	5248.382	---	PASS
	Ant2	5230	36.843	5211.538	5248.382	---	PASS
	Ant1	5755	36.603	5736.778	5773.382	---	PASS
	Ant2	5755	36.523	5736.778	5773.302	---	PASS
	Ant1	5795	36.603	5776.778	5813.382	---	PASS
	Ant2	5795	36.444	5776.858	5813.302	---	PASS
11AC80SISO	Ant1	5210	75.764	5172.278	5248.042	---	PASS
	Ant2	5210	75.604	5172.278	5247.882	---	PASS
	Ant1	5775	75.604	5737.278	5812.882	---	PASS
	Ant2	5775	75.604	5737.278	5812.882	---	PASS

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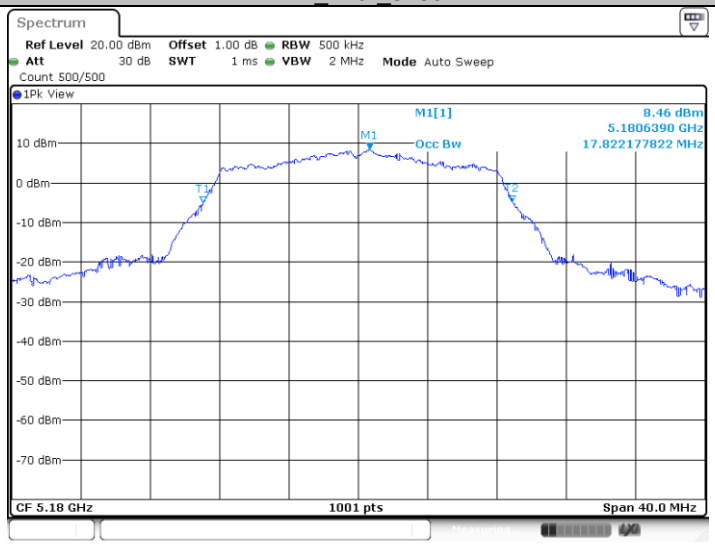
11A_Ant1_5180



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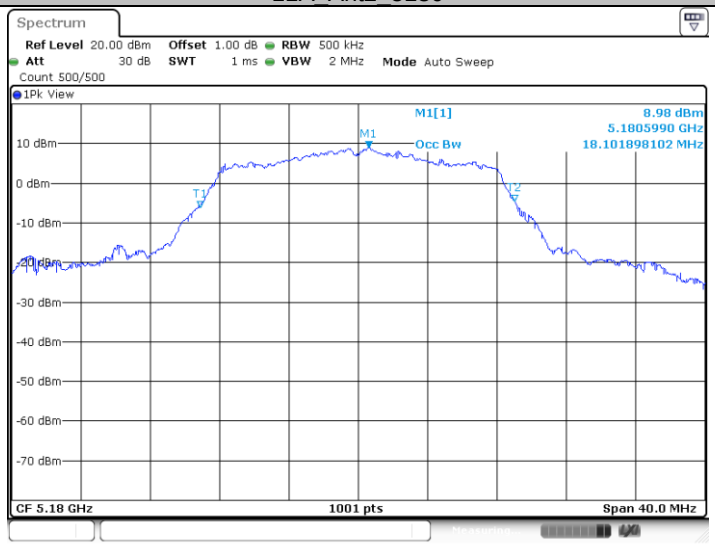

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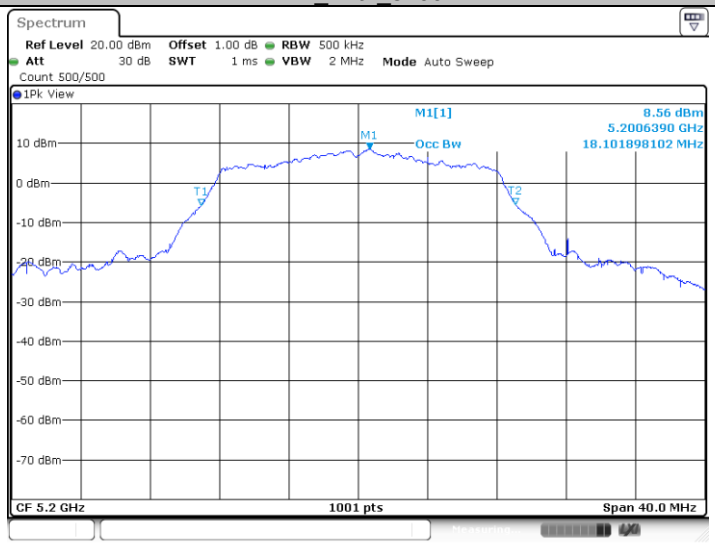

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11A_Ant2_5200

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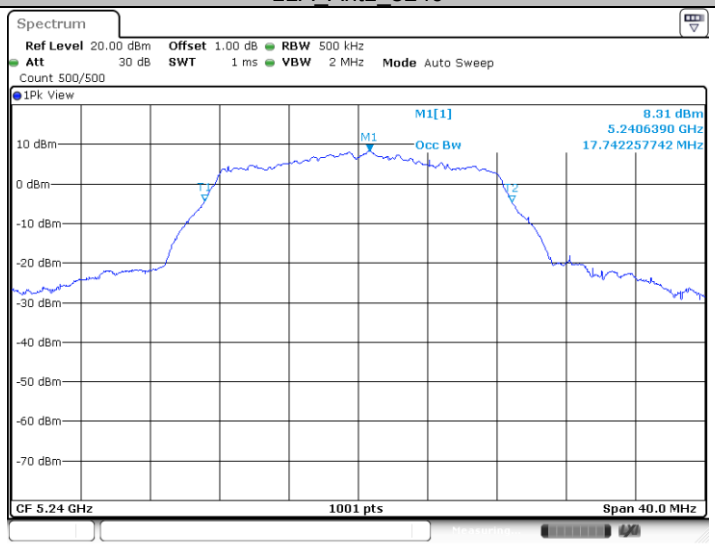
11A_Ant1_5240



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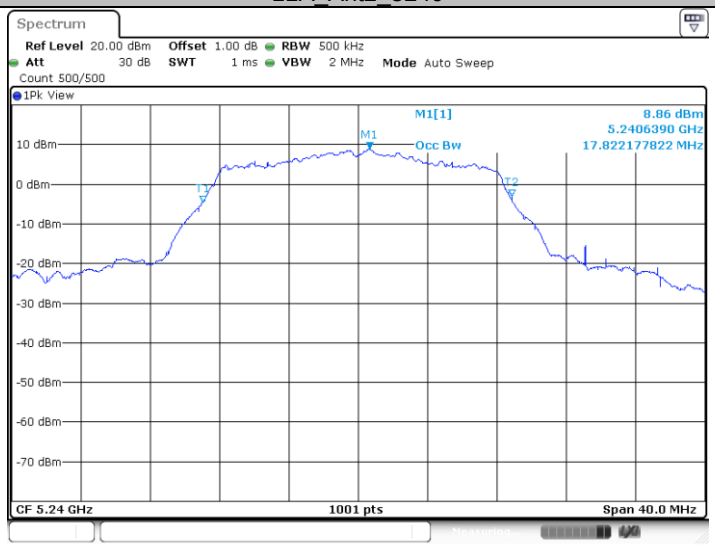

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11A_Ant1_5745

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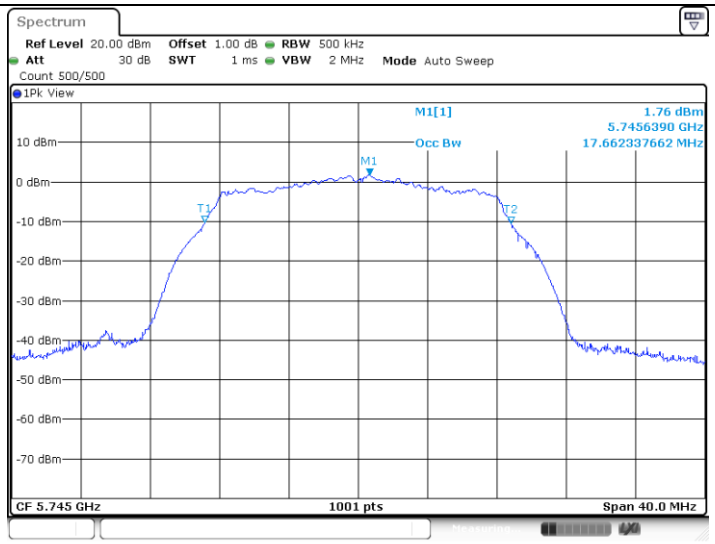

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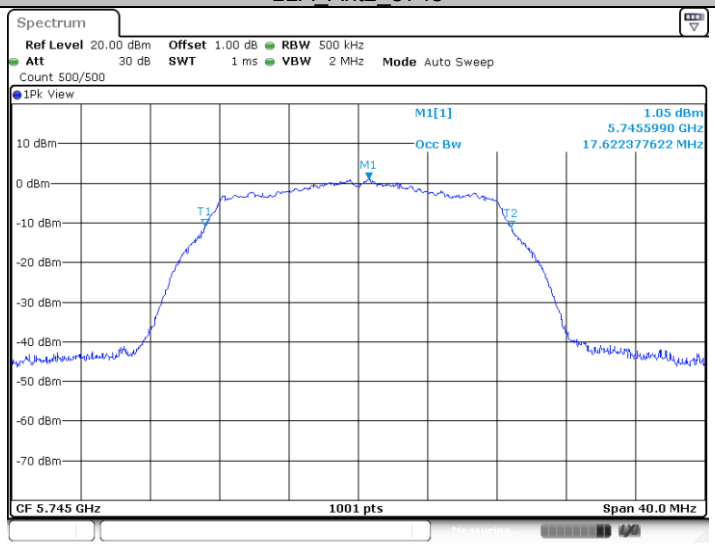

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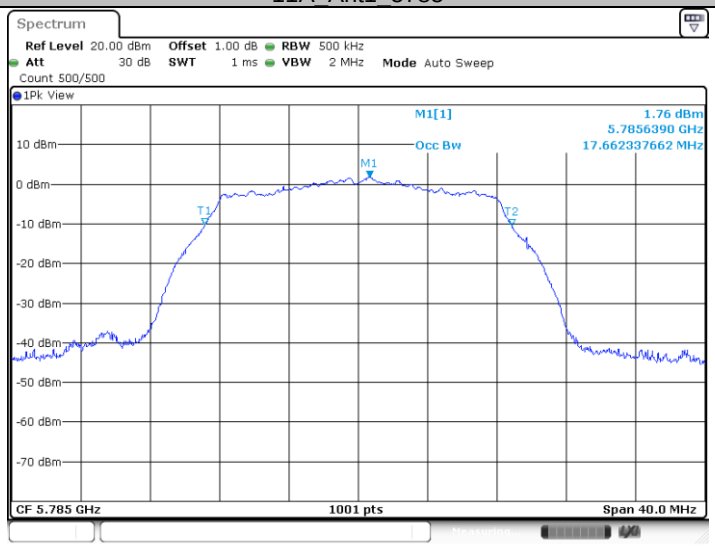

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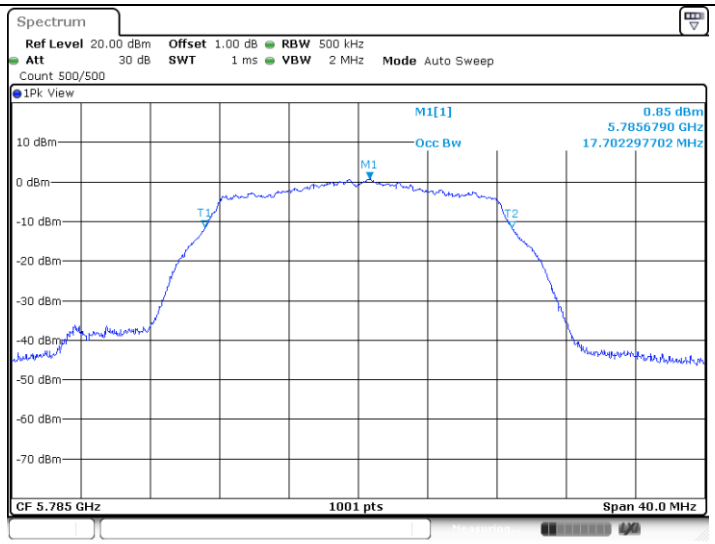

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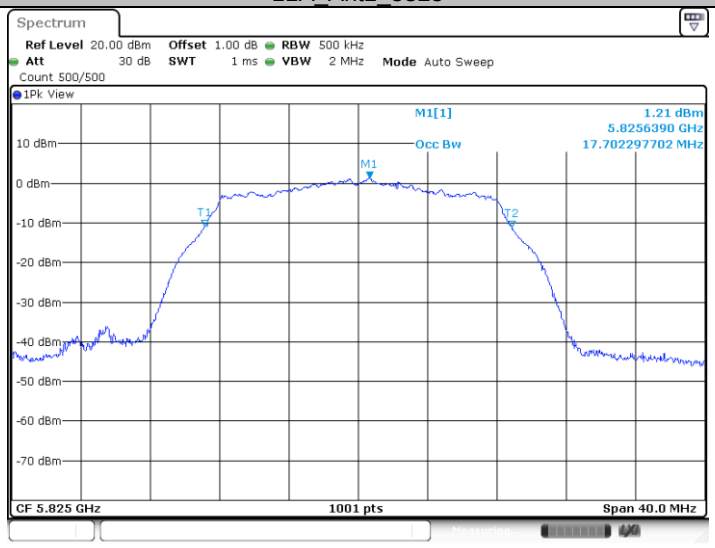

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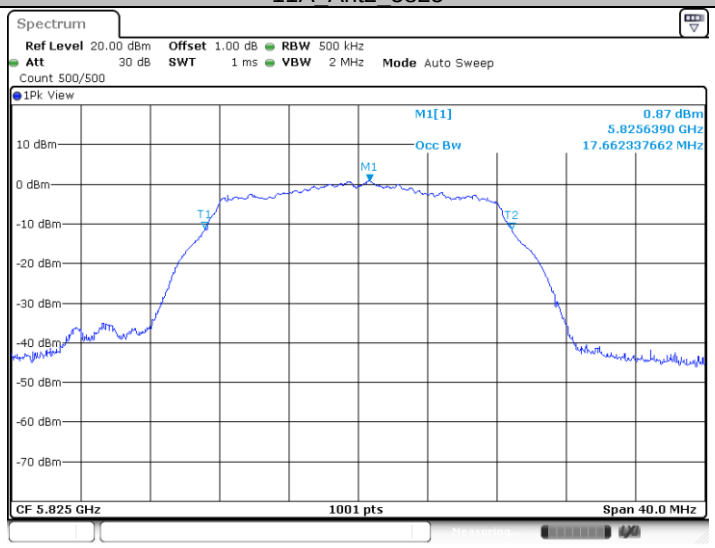

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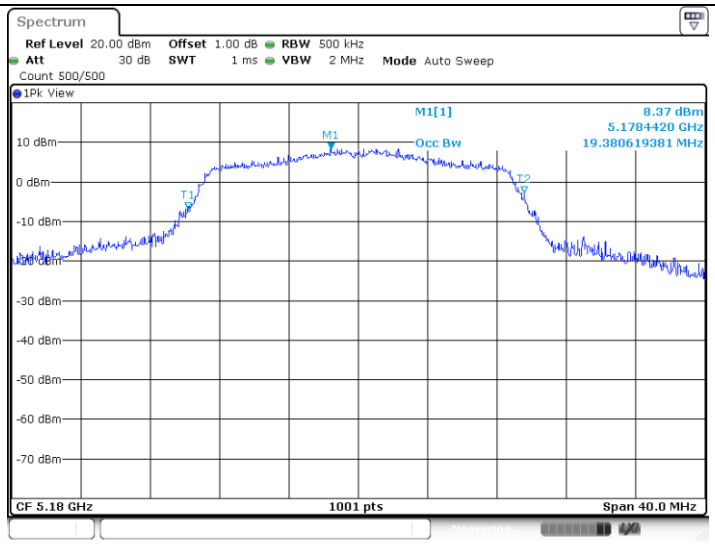

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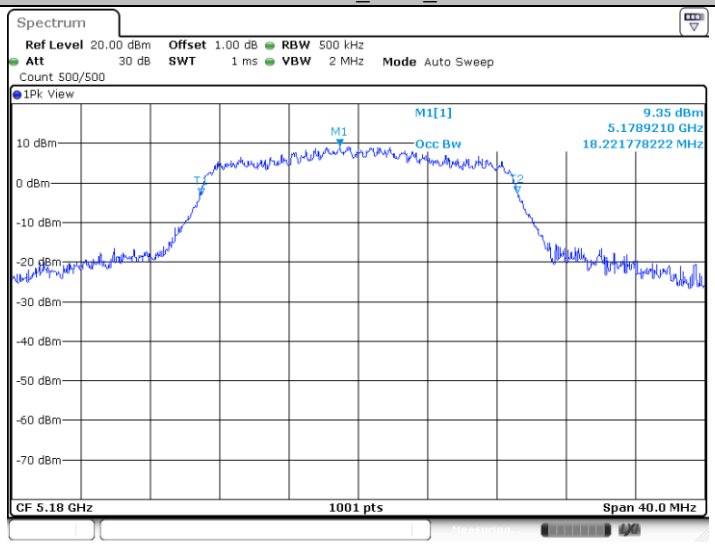

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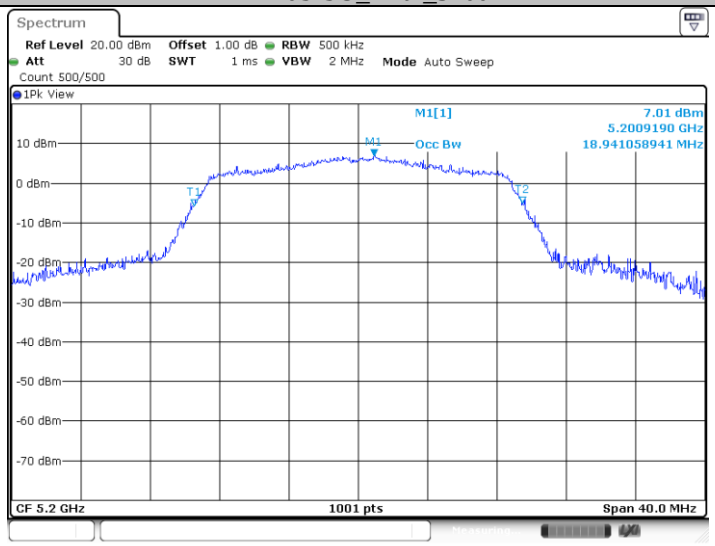

11N20SISO_Ant2_5200

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