



FCC TEST REPORT

FCC ID: 2AU8U-P8II

On Behalf of

Shanghai e-Compass Science & Technology Co., Ltd

Handheld data collection terminal

Model No.: P8II

Prepared for : Shanghai e-Compass Science & Technology Co., Ltd
Address : Floor 1-3, Unit 12-13, No.159, Tianzhou Rd., Xuhui District,
Shanghai

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District,
518103, Shenzhen, Guangdong, China

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Date of Report : November 20, 2019
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TEST REPORT DECLARATION

Applicant : Shanghai e-Compass Science & Technology Co., Ltd
Address : Floor 1-3, Unit 12-13, No.159, Tianzhou Rd., Xuhui District, Shanghai
Manufacturer : Shenzhen UniStrong Science & Technology Co., Ltd.
Address : B, 4-4 Factory, Zhengcheng Road, Fuyong Baoan District, Shenzhen, China
EUT Description : Handheld data collection terminal
(A) Model No. : P8II
(B) Trademark : N/A

Measurement Standard Used:

FCC CFR Title 47 Part 15 Subpart E Section 15.407

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Ella Liang
Project Engineer 

Approved by (name + signature).....: Simple Guan
Project Manager 

Date of issue.....: November 20, 2019

Revision History

Revision	Issue Date	Revisions	Revised By
V0	November 20, 2019	Initial released Issue	Simple Guan

1 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	PASS
AC Power Line Conducted Emission	15.207	PASS
Peak Transmit Power	15.407(a)(1), 15.407 (a)(3)	PASS
Power Spectral Density	15.407(a)(1) , 15.407 (a)(3)	PASS
Emission Bandwidth and 99% Occupied Bandwidth	15.407(b)(6), 15.205/15.209	PASS
Radiated Emission	15.205/15.209	PASS
Band Edge	15.205	PASS
Frequency Stability	15.407(f)	PASS

Remark: 1.Pass: The EUT complies with the essential requirements in the standard.

2. N/A is an abbreviation for Not Applicable.

3. F is an abbreviation for Fail.

2 General Information

2.1 General Description of EUT

Description of Device (EUT)

Description	: Handheld data collection terminal
Trademark	: N/A
Model Number	: P8II
DIFF.	: N/A
Test Voltage	: DC 3.8V by battery DC 5V from adapter input AC 230V, 50Hz
Operation Frequency	: 802.11a/ 802.11ac20/ 802.11n(HT20): 5180-5240MHz, 5260-5230MHz, 5745-5825MHz 802.11ac40/ 802.11n(HT40): 5190-5230MHz, 5270-5310MHz, 5755-5795MHz 802.11ac80: 5210MHz, 5290MHz, 5775MHz
Channel separation	: 20MHz for 802.11a/ 802.11ac20/ 802.11n(HT20) 40MHz for 802.11ac40/ 802.11n(HT40) 80MHz for 802.11ac80
Modulation technology:	: IEEE 802.11n: OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE 802.11a: OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE 802.11ac: OFDM (64QAM, 16QAM,QPSK,BPSK)
Antenna Type	: Integrated antenna, Maximum Gain is 0dBi
Software version	: RF01.62.43.03
Hardware version	: I22-MB_V1.1

2.2 Test mode

Keep the EUT in transmitting with modulation.

EUT was test with 100% duty cycle at its maximum power control level.

Bandwidth Mode	20MHz	40MHz	80MHz
IEEE 802.11a	☒	☐	☐
IEEE 802.11n	☒	☒	☐
IEEE 802.11ac	☒	☒	☒

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

2.3 Test Facility

Shenzhen Alpha Product Testing Co., Ltd

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission

Registration Number: 293961

July 15, 2019 Certificated by IC

Registration Number: CN0085

2.4 Accessories of Device (EUT)

Accessories1 : /

Manufacturer : /

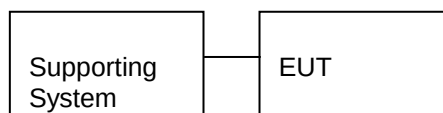
Model : /

Ratings : /

2.5 Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
/	/	/	/	/	/

2.6 Block Diagram of connection between EUT and simulators



2.7 Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	24℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.8 Measurement Uncertainty

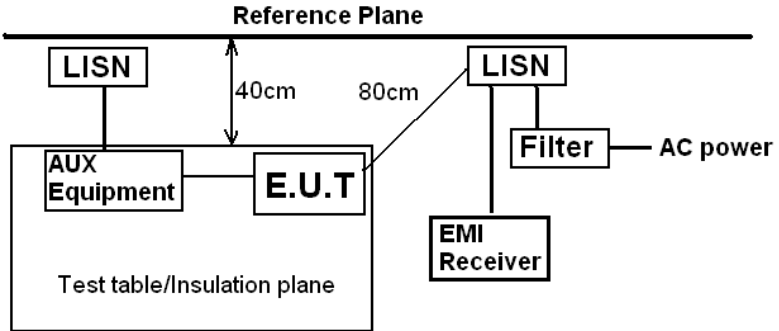
95% confidence levels, k=2)	
Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB(Polarize: V)
	2.57dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.16dB(Polarize: H)
	4.13dB(Polarize: V)
Uncertainty for radio frequency	5.4×10-8
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

3 Test Instruments list

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2019.09.06	3Year
Spectrum analyzer	ROHDE&SCHW ARZ	FSV40-N	102137	2019.09.05	1Year
Spectrum analyzer	Agilent	N9020A	MY499100060	2019.09.05	1Year
Receiver	ROHDE&SCHW ARZ	ESR	1316.3003K03-102082-Wa	2019.09.06	1Year
Receiver	R&S	ESCI	101165	2019.09.05	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2018.04.13	2Year
Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA 9120 D(1201)	2018.04.13	2Year
Active Loop Antenna	SCHWARZBEC K	FMZB 1519B	00059	2019.09.07	2Year
Cable	Resenberger	N/A	No.1	2019.09.05	1Year
Cable	Resenberger	N/A	No.2	2019.09.05	1Year
Cable	Resenberger	N/A	No.3	2019.09.05	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2019.09.05	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2019.09.05	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2019.09.05	1Year
L.I.S.N.#2	ROHDE&SCHW ARZ	ENV216	101043	2019.09.05	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2019.08.26	1 Year
Horn Antenna	SCHWARZBEC K	BBHA9170	00946	2019.09.07	2 Year
Preamplifier	SKET	LNPA_1840-50	SK2018101801	2019.09.06	1 Year
Power Meter	Agilent	E9300A	MY41496625	2019.09.06	1 Year
Temp. & Humid. Chamber	Wei Huang	WHTH-1000-40-880	100631	2019.09.06	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	20140927-6	2019.09.05	1 Year

4 Test results and Measurement Data

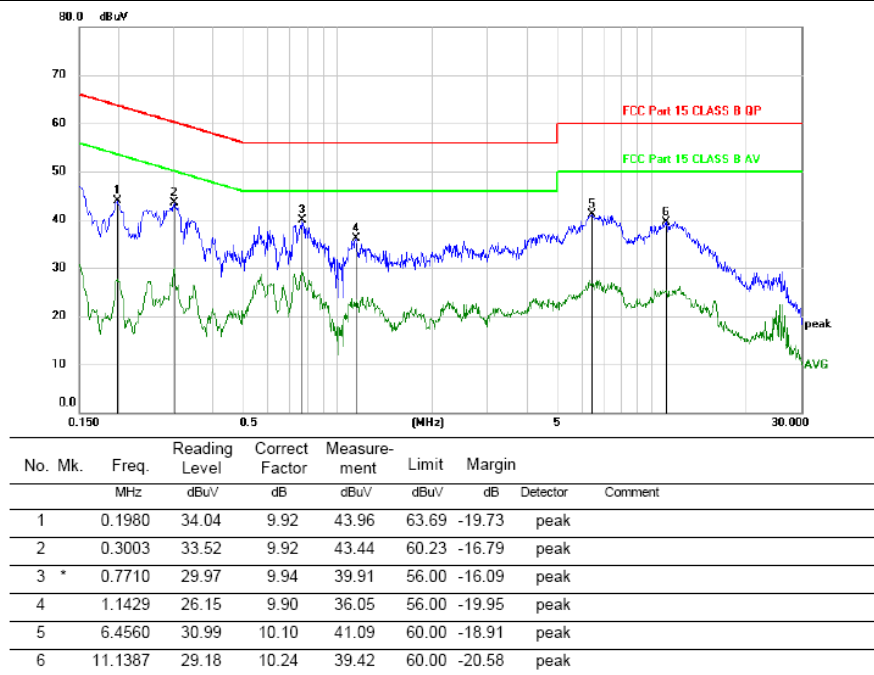
4.1 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.10:2013		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. 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:	 <i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test results:	Pass.		

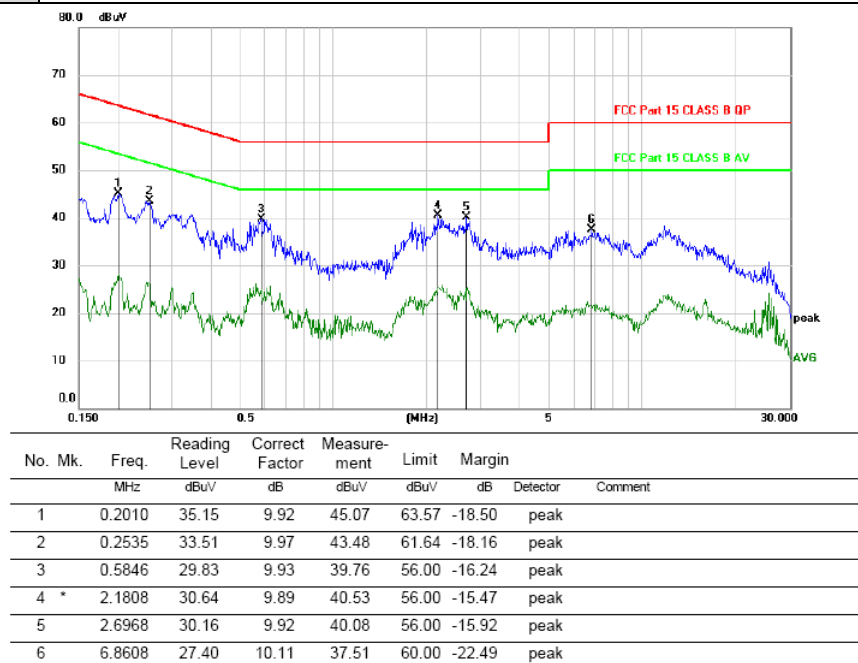
Measurement Data

An initial pre-scan was performed on the line and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

EUT Description	Handheld data collection terminal	Model No.	P8II
Temperature	24°C	Humidity	56%
Pol	Line	Test date	2019/10/10
Test Voltage	AC 120V/ 60Hz	Test mode	802.11a (5240MHz)



Pol	Neutral
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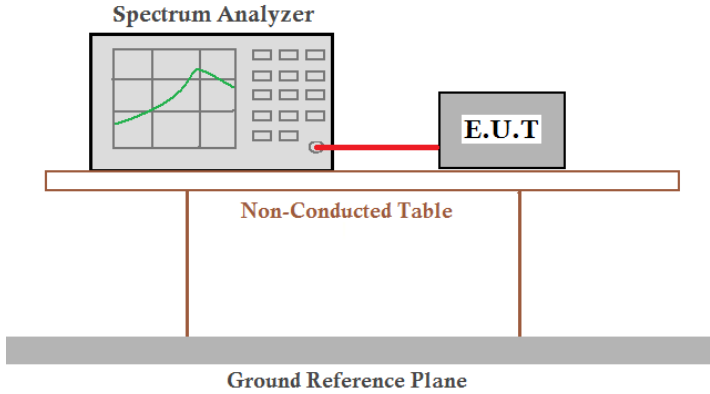


*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark: All modes have been tested, and only worst data was listed in this report.

4.2 Emission Bandwidth and 99% Occupied Bandwidth

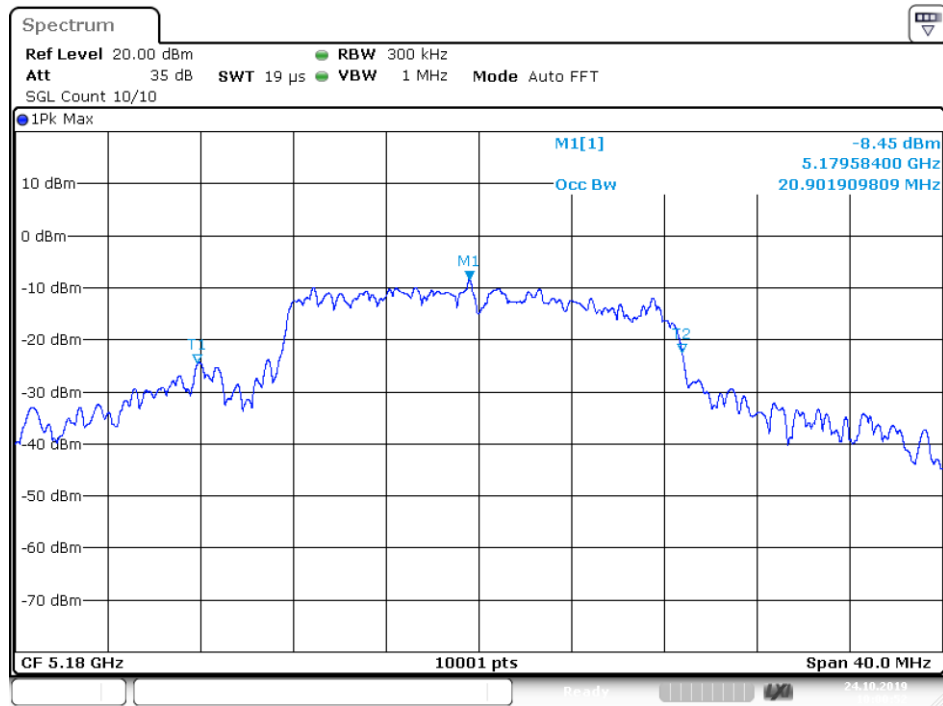
Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.725–5.85 GHz.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. The E.U.T. is placed on a Non-Conducted Table, which is supported by a Ground Reference Plane. The Spectrum Analyzer is also on the Non-Conducted Table. The diagram shows the physical arrangement of the test equipment and the reference plane used for the measurement.
Test procedure:	According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Test results:	Pass

Measurement Data:

U-NII-1							
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5180	Ant 1	20.9019	33.688	0	Pass
NVNT	802.11a	5200	Ant 1	17.8702	37.256	0	Pass
NVNT	802.11a	5240	Ant 1	18.9821	35.388	0	Pass
NVNT	802.11ac20	5180	Ant 1	19.1381	32.82	0	Pass
NVNT	802.11ac20	5200	Ant 1	18.3347	34.316	0	Pass
NVNT	802.11ac20	5240	Ant 1	18.6101	34.652	0	Pass
NVNT	802.11ac40	5190	Ant 1	44.2676	75.448	0	Pass
NVNT	802.11ac40	5230	Ant 1	37.4683	77.272	0	Pass
NVNT	802.11ac80	5210	Ant 1	80.5039	126.32	0	Pass
NVNT	802.11n(HT20)	5180	Ant 1	18.3862	33.672	0	Pass
NVNT	802.11n(HT20)	5200	Ant 1	18.6141	33.212	0	Pass
NVNT	802.11n(HT20)	5240	Ant 1	20.1140	36.98	0	Pass
NVNT	802.11n(HT40)	5190	Ant 1	43.8596	72.864	0	Pass
NVNT	802.11n(HT40)	5230	Ant 1	40.2120	72.752	0	Pass

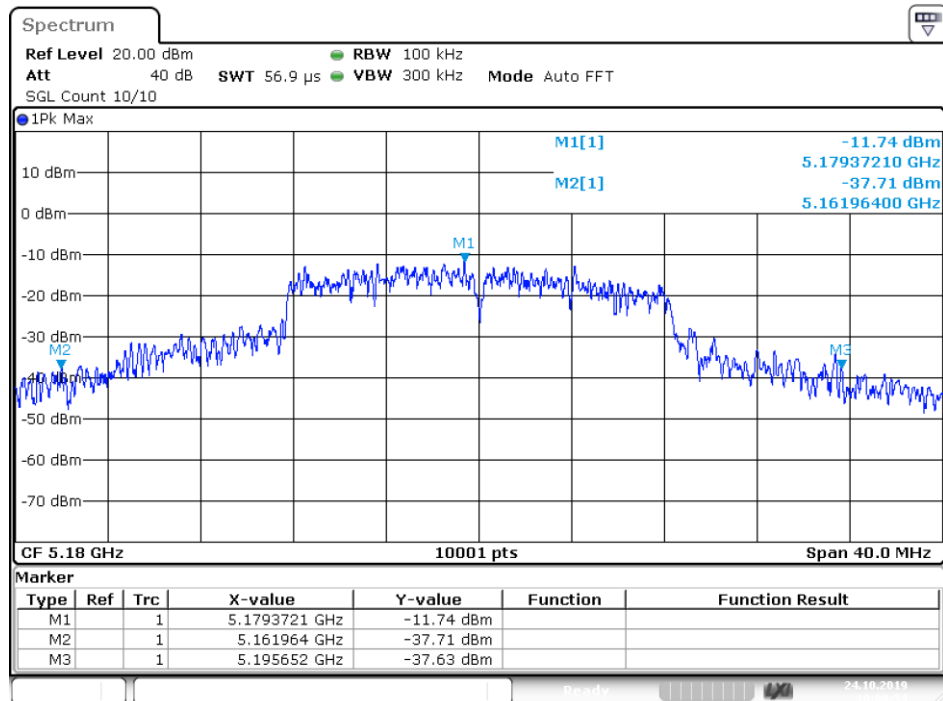
Test plots as followed:

OBW NVNT 802.11a 5180MHz Ant1



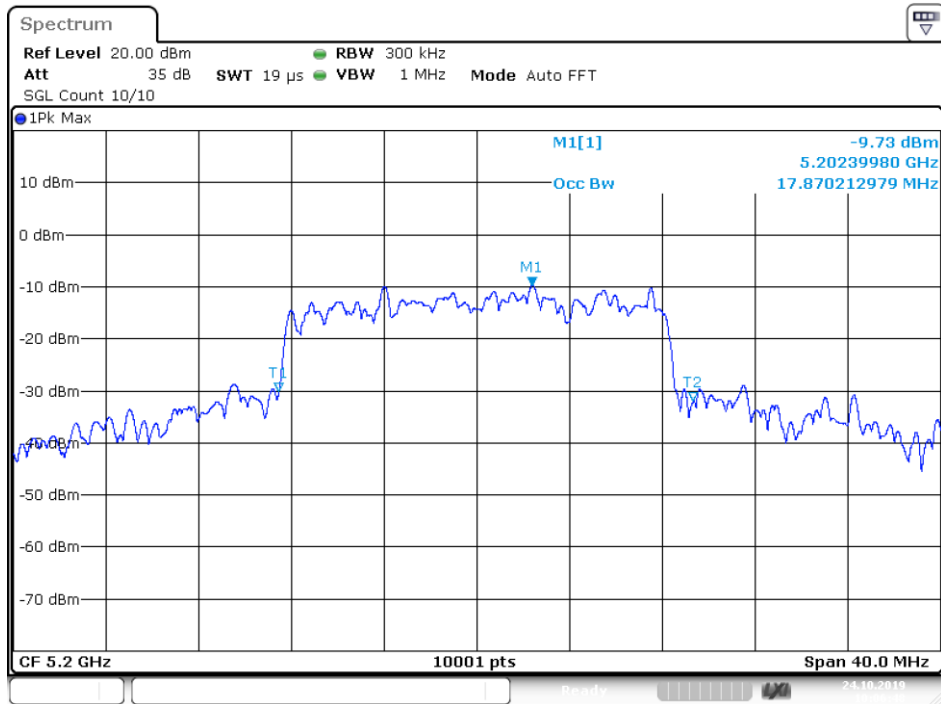
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-26 dB BW NVNT 802.11a 5180MHz Ant1



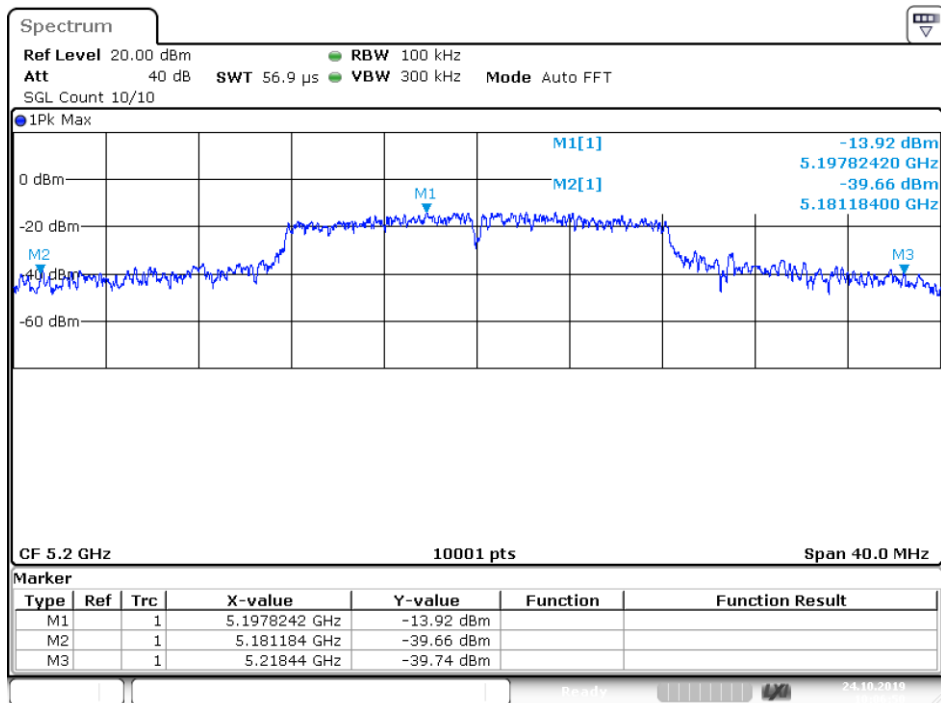
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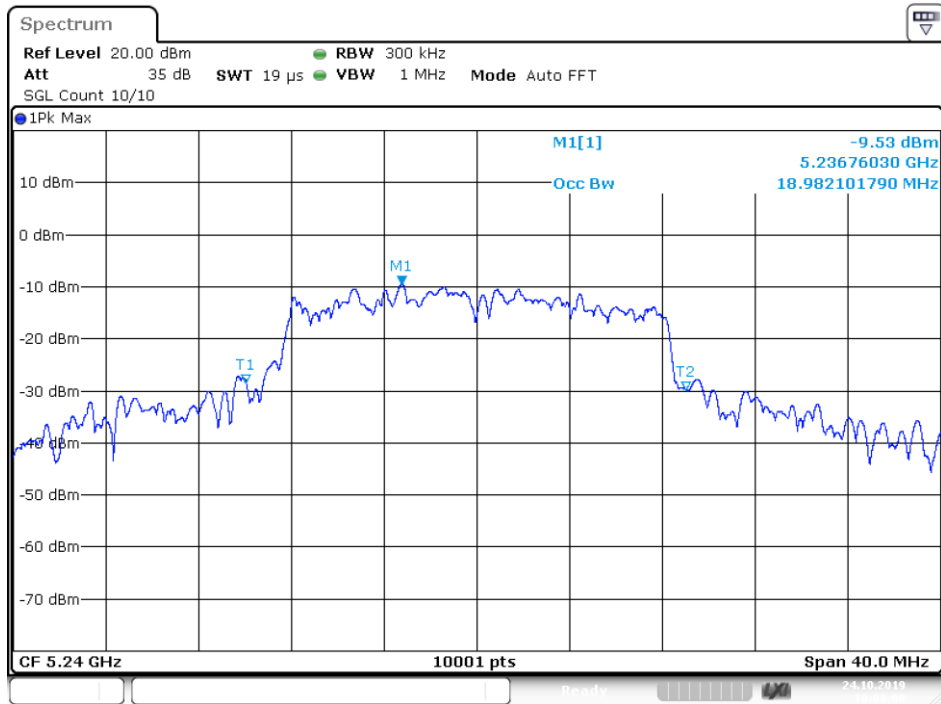
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-26 dB BW NVNT 802.11a 5200MHz Ant1



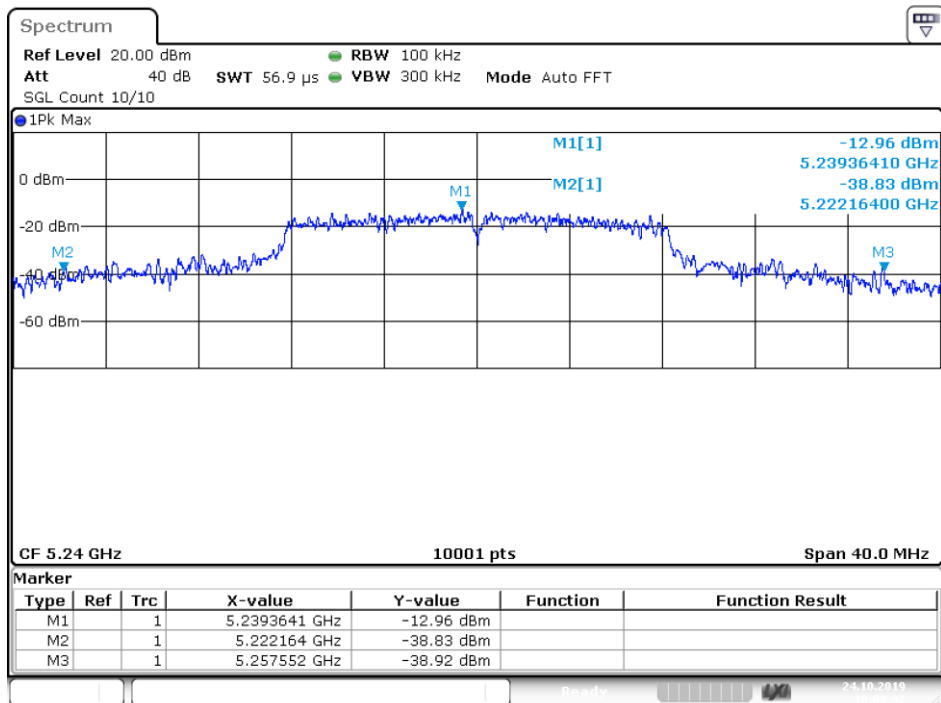
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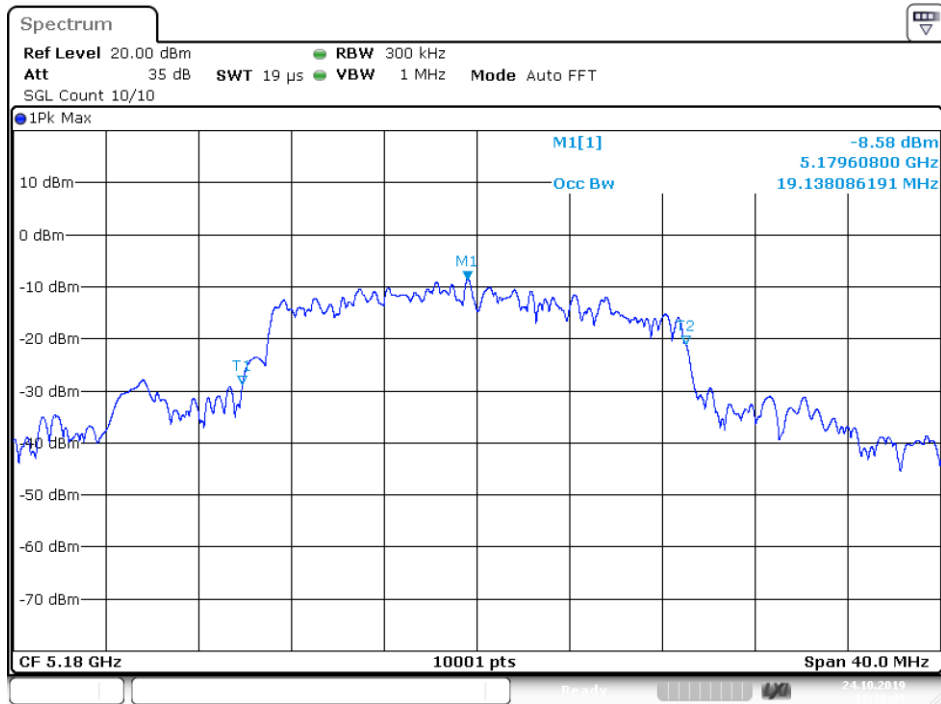
Date: 24.OCT.2019 10:08:00

-26 dB BW NVNT 802.11a 5240MHz Ant1



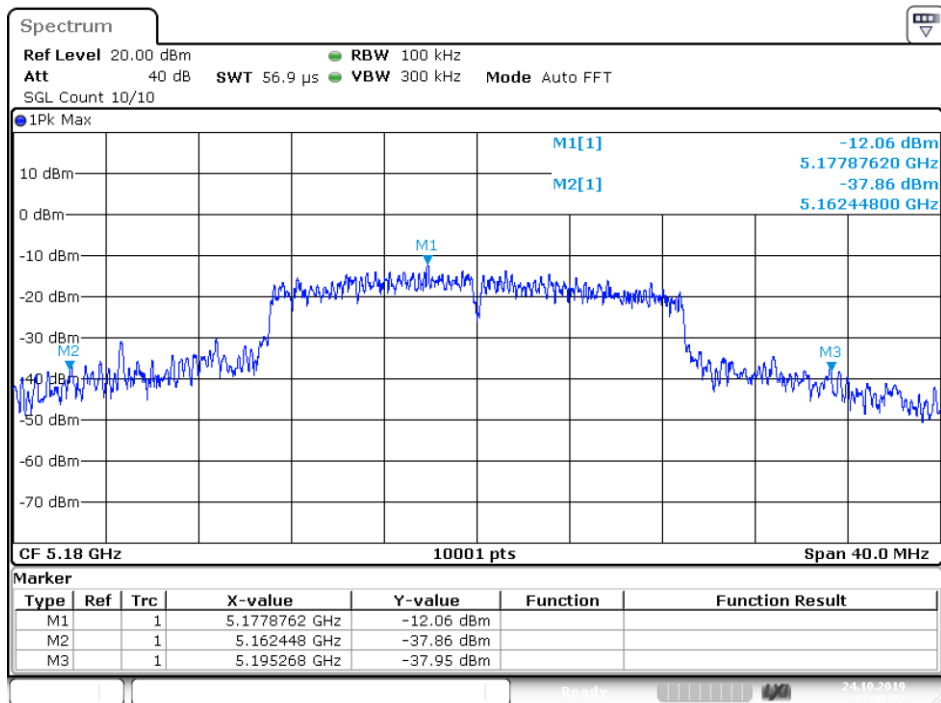
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OBW NVNT 802.11ac20 5180MHz Ant1



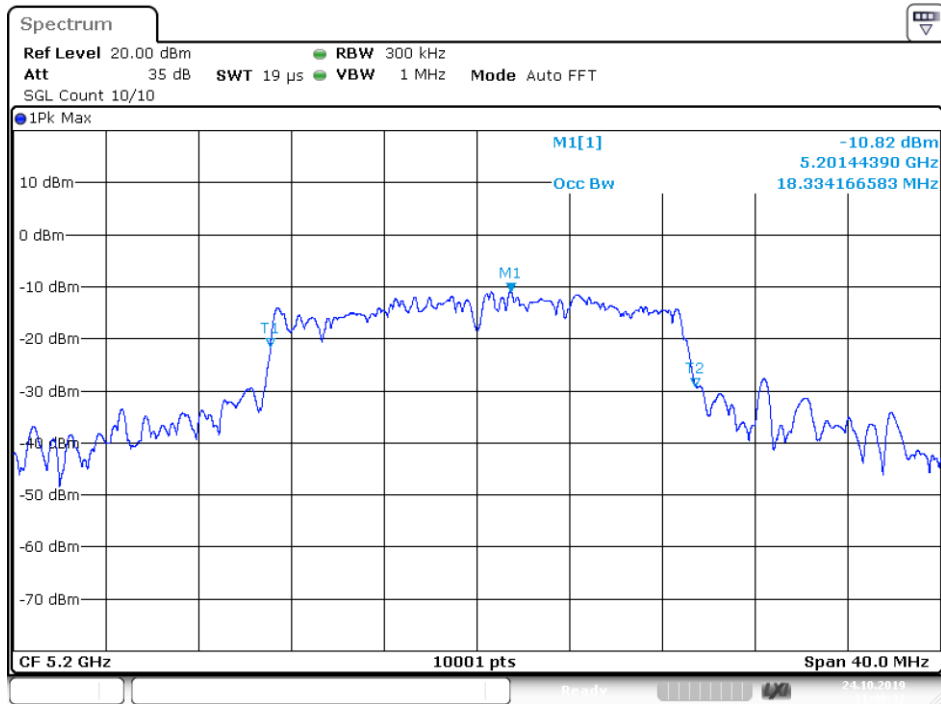
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-26 dB BW NVNT 802.11ac20 5180MHz Ant1



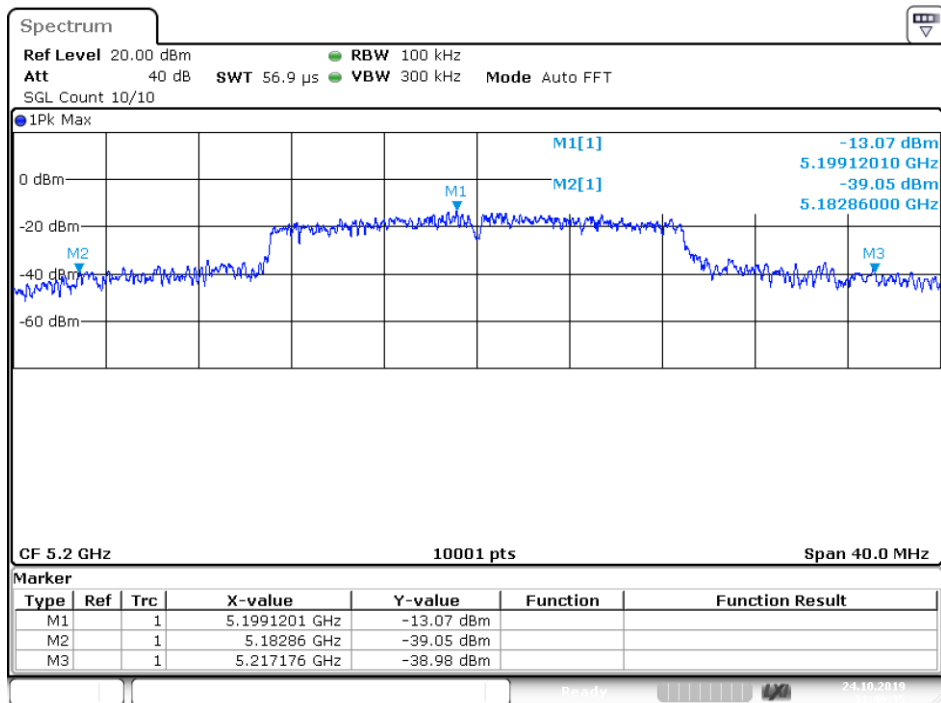
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OBW NVNT 802.11ac20 5200MHz Ant1



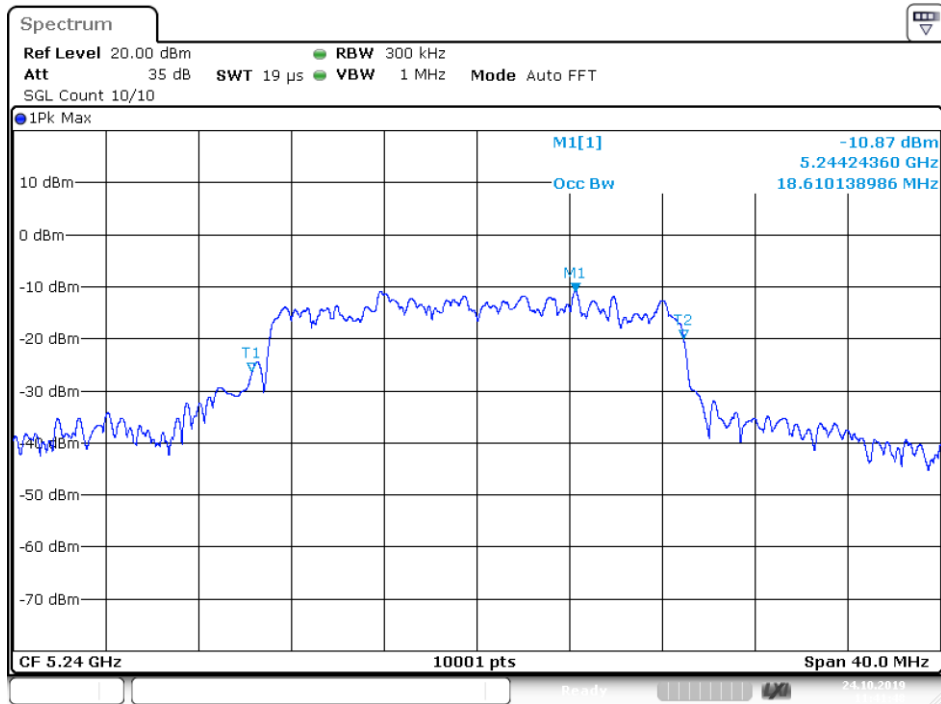
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-26 dB BW NVNT 802.11ac20 5200MHz Ant1



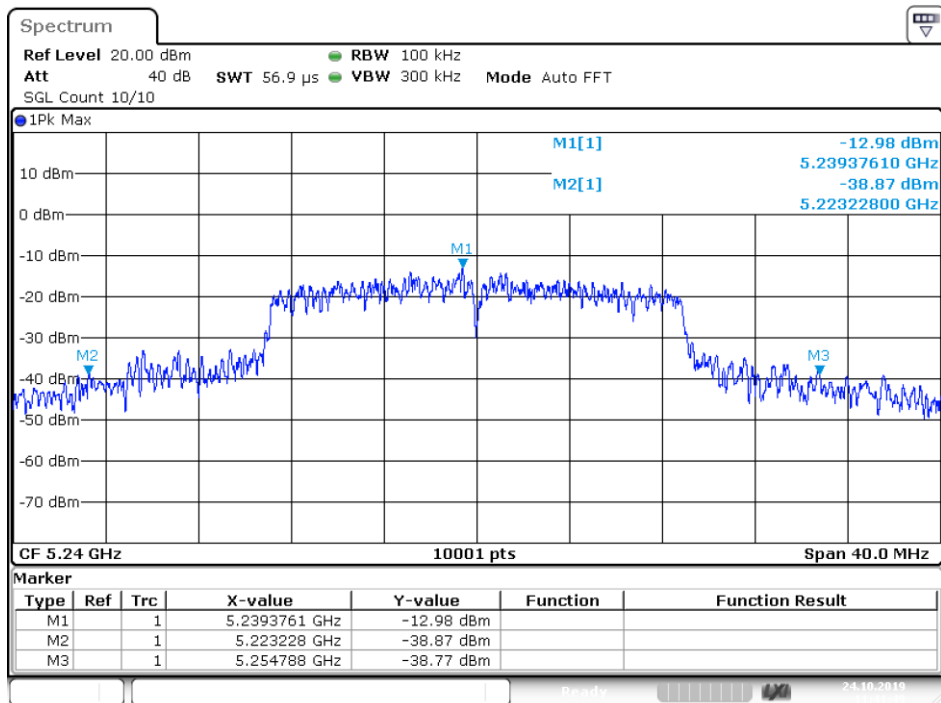
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OBW NVNT 802.11ac20 5240MHz Ant1



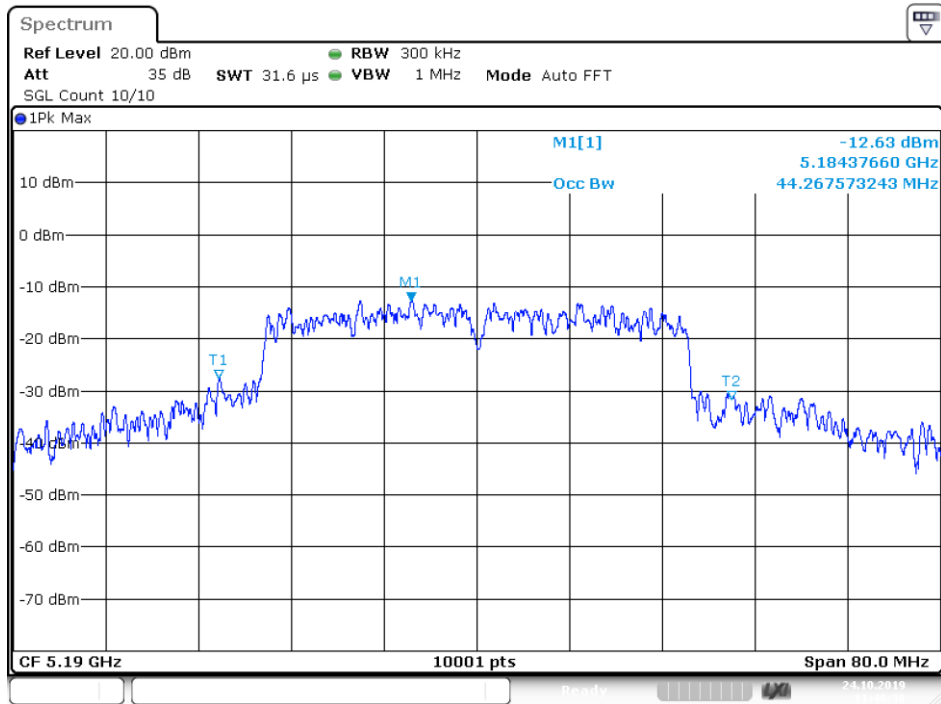
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-26 dB BW NVNT 802.11ac20 5240MHz Ant1



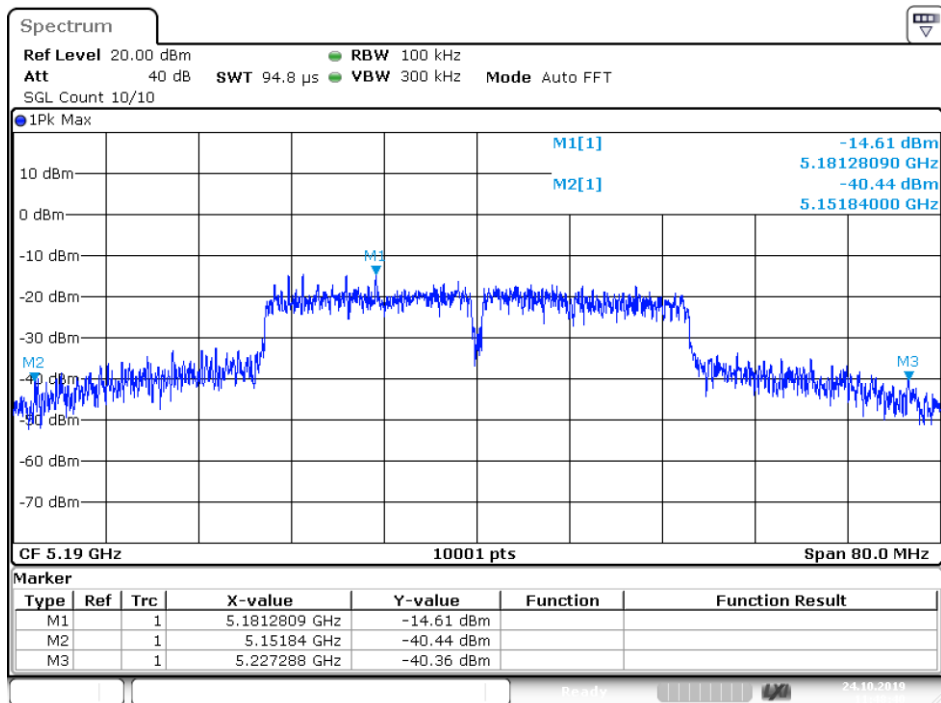
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OBW NVNT 802.11ac40 5190MHz Ant1



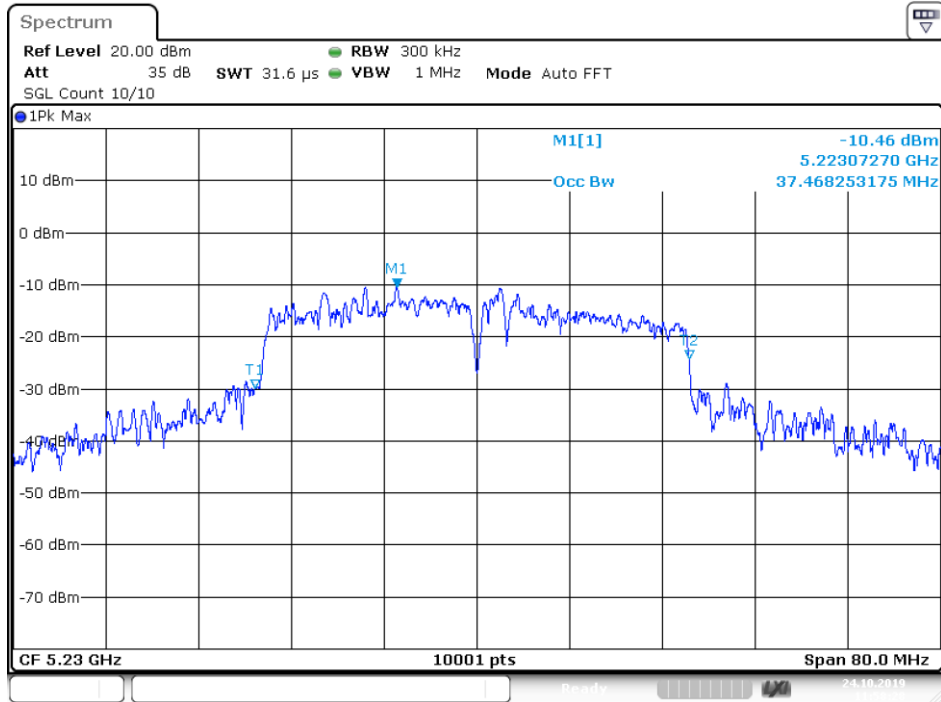
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-26 dB BW NVNT 802.11ac40 5190MHz Ant1



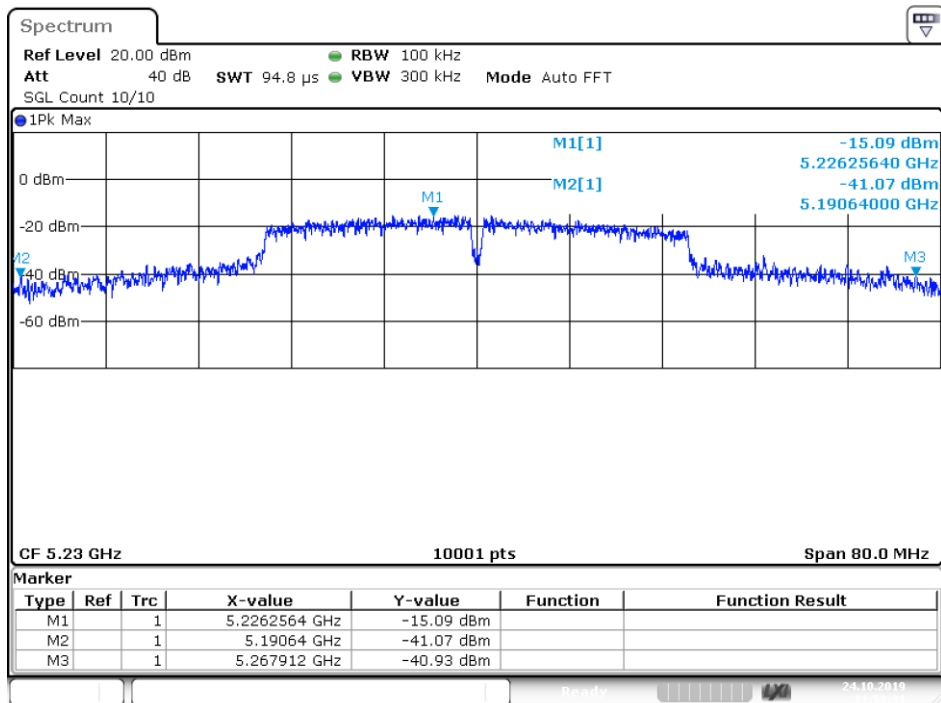
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OBW NVNT 802.11ac40 5230MHz Ant1



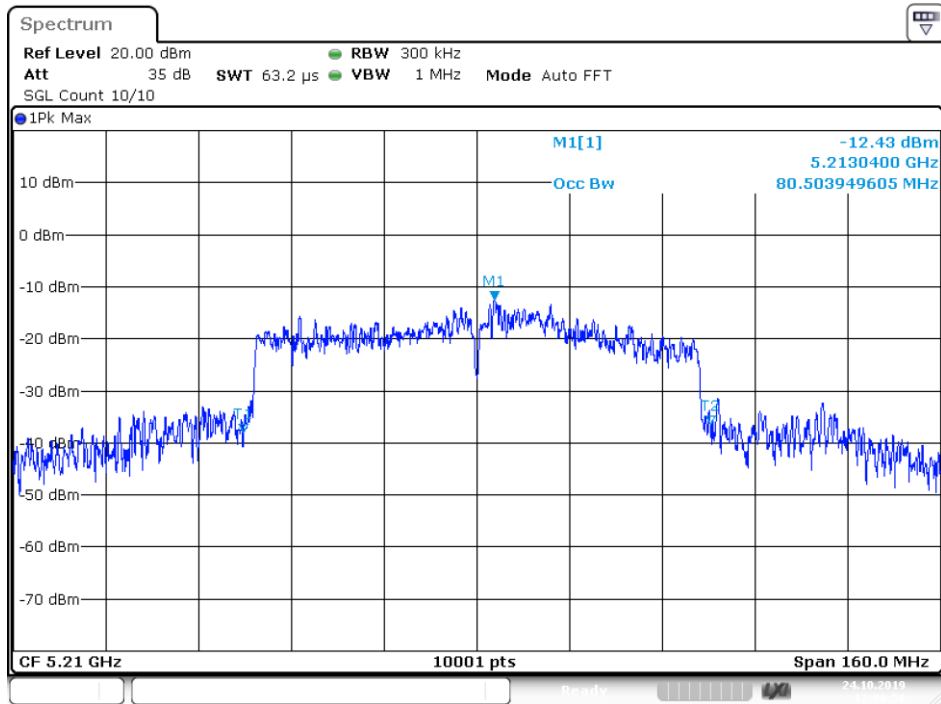
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-26 dB BW NVNT 802.11ac40 5230MHz Ant1



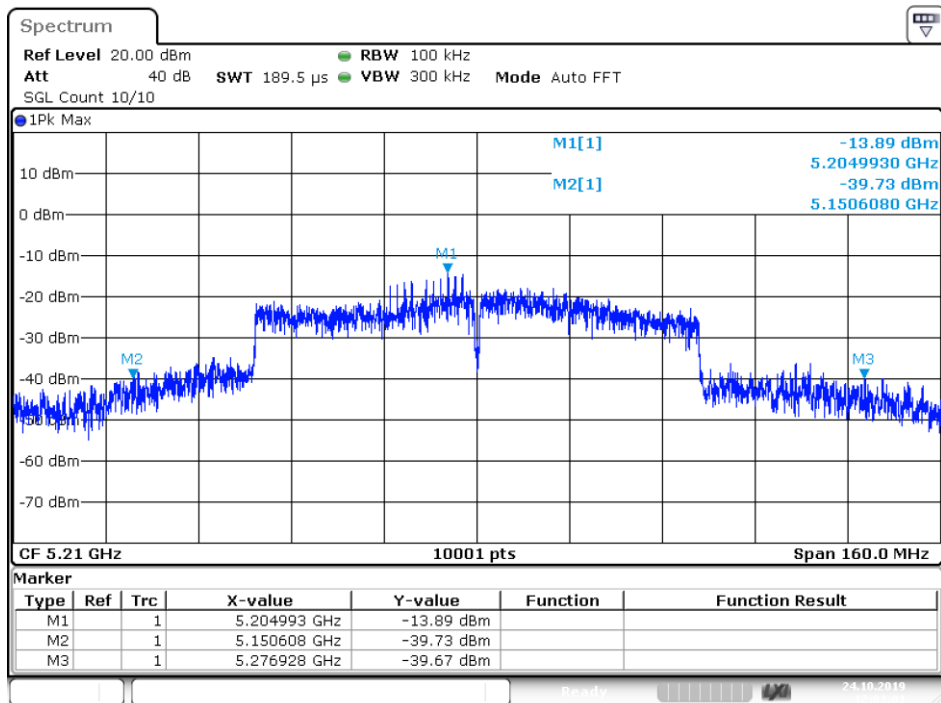
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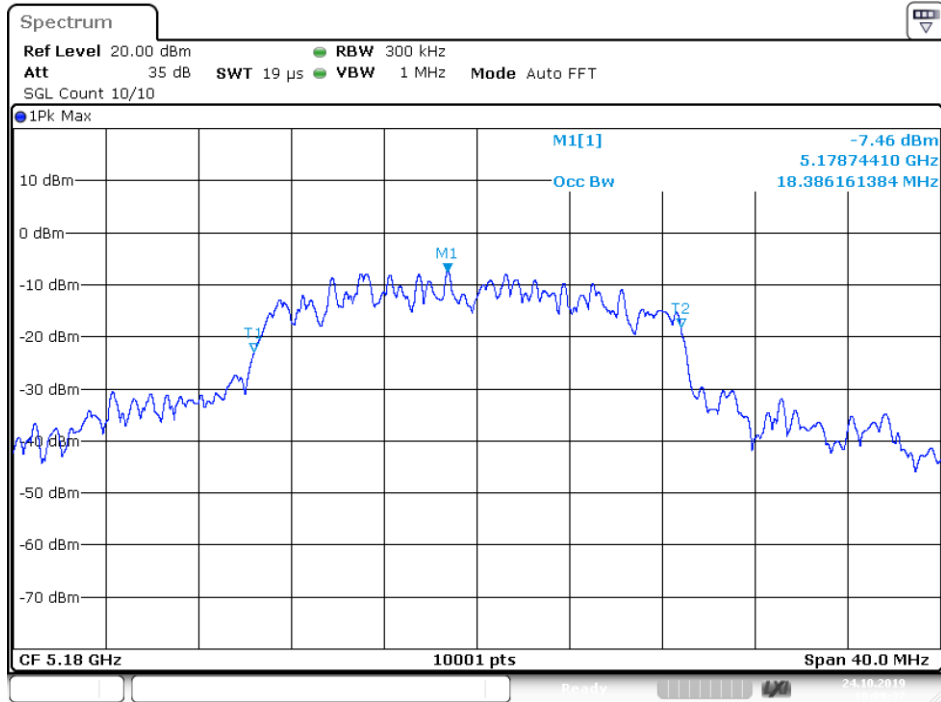
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-26 dB BW NVNT 802.11ac80 5210MHz Ant1



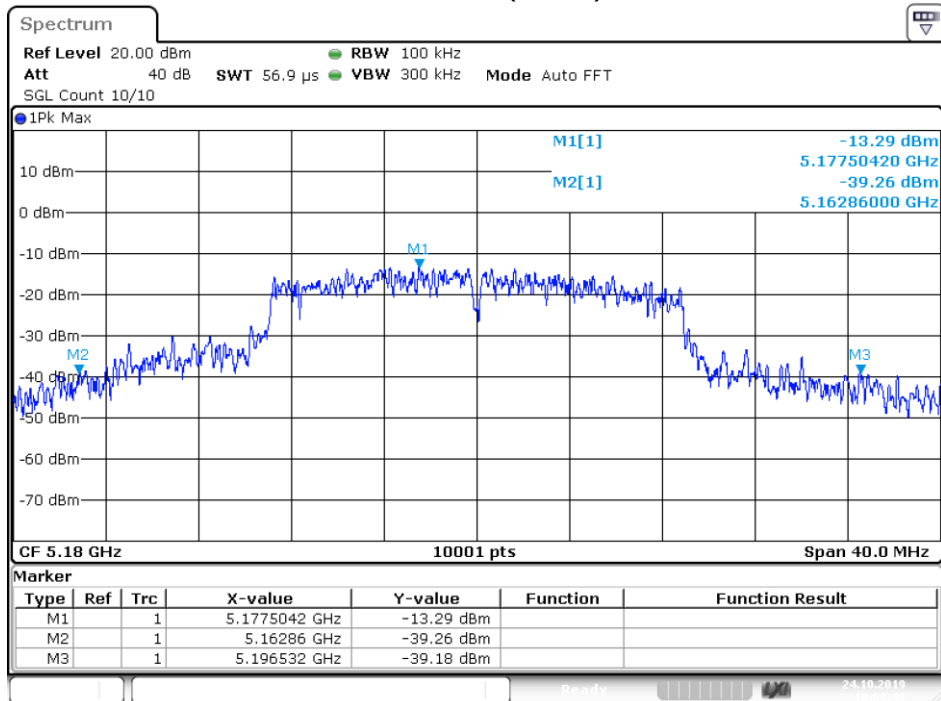
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OBW NVNT 802.11n(HT20) 5180MHz Ant1



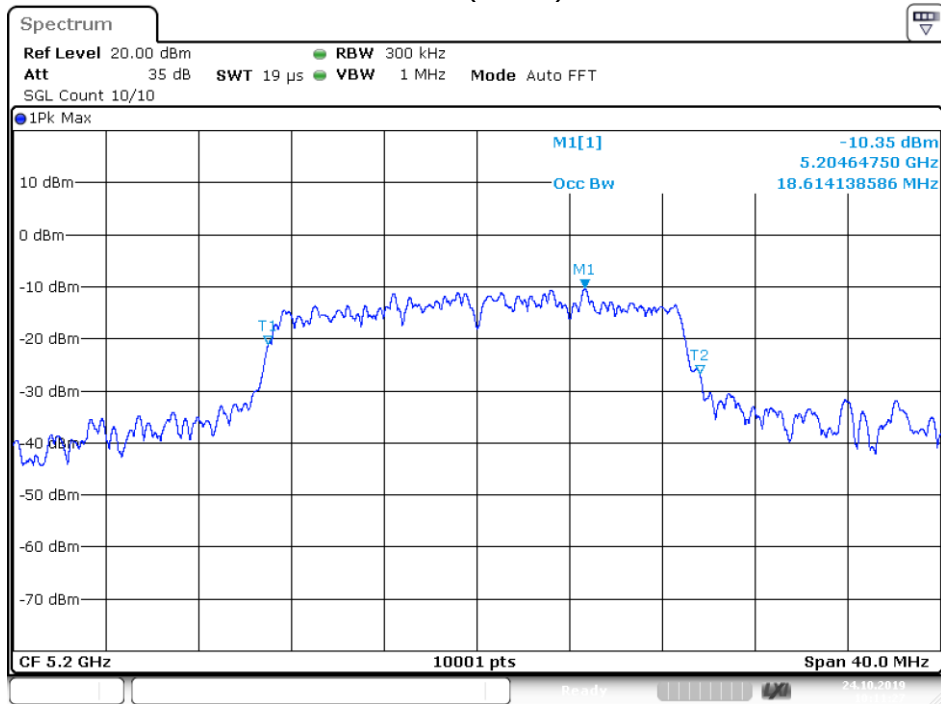
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-26 dB BW NVNT 802.11n(HT20) 5180MHz Ant1



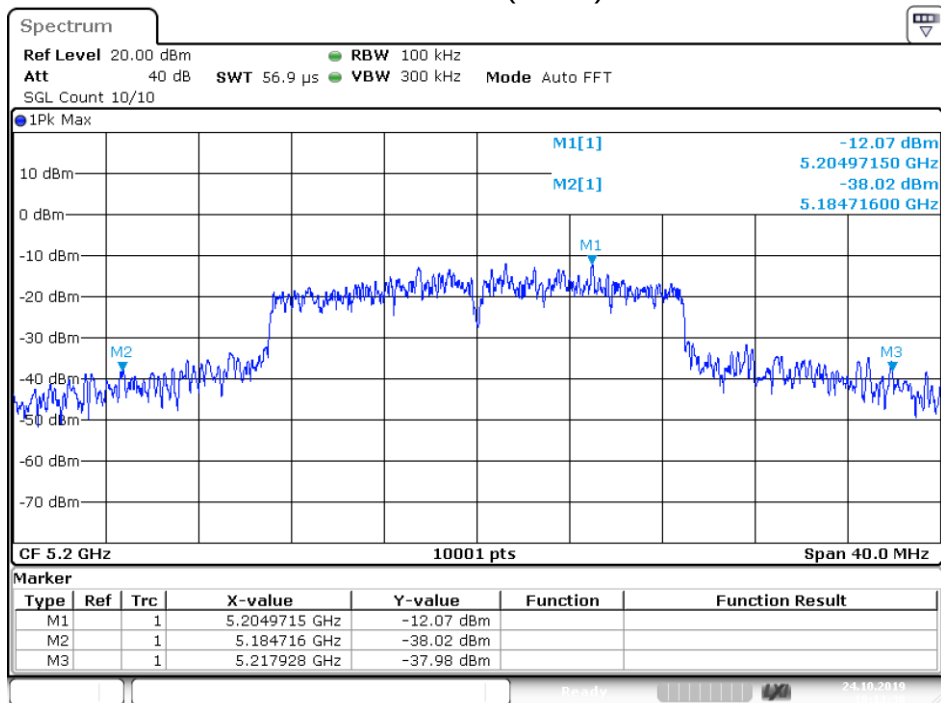
Date: 24.OCT.2019 10:09:39

OBW NVNT 802.11n(HT20) 5200MHz Ant1



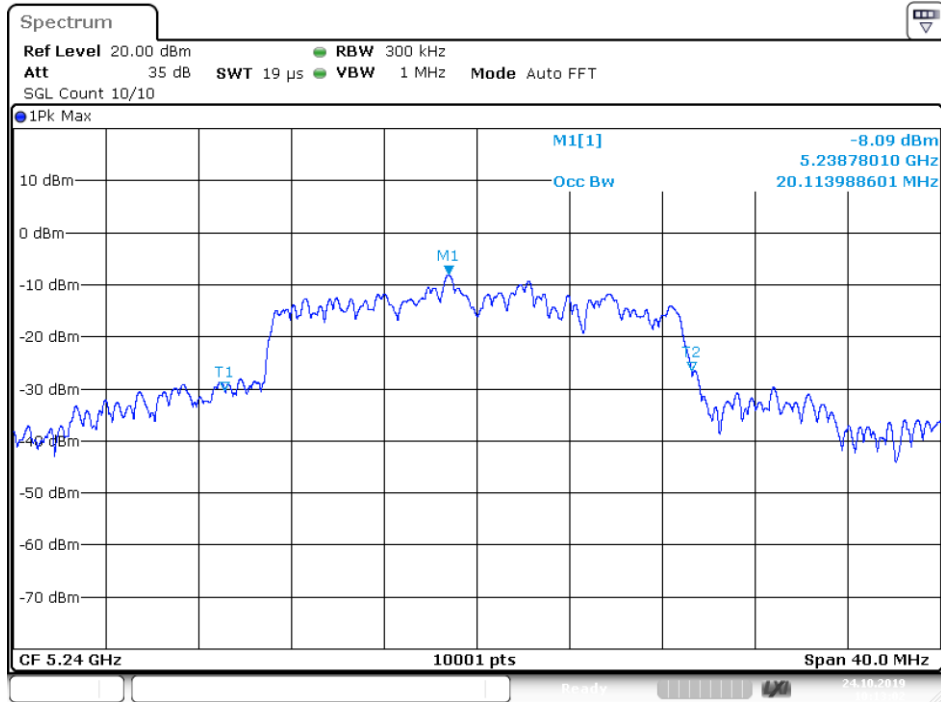
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-26 dB BW NVNT 802.11n(HT20) 5200MHz Ant1



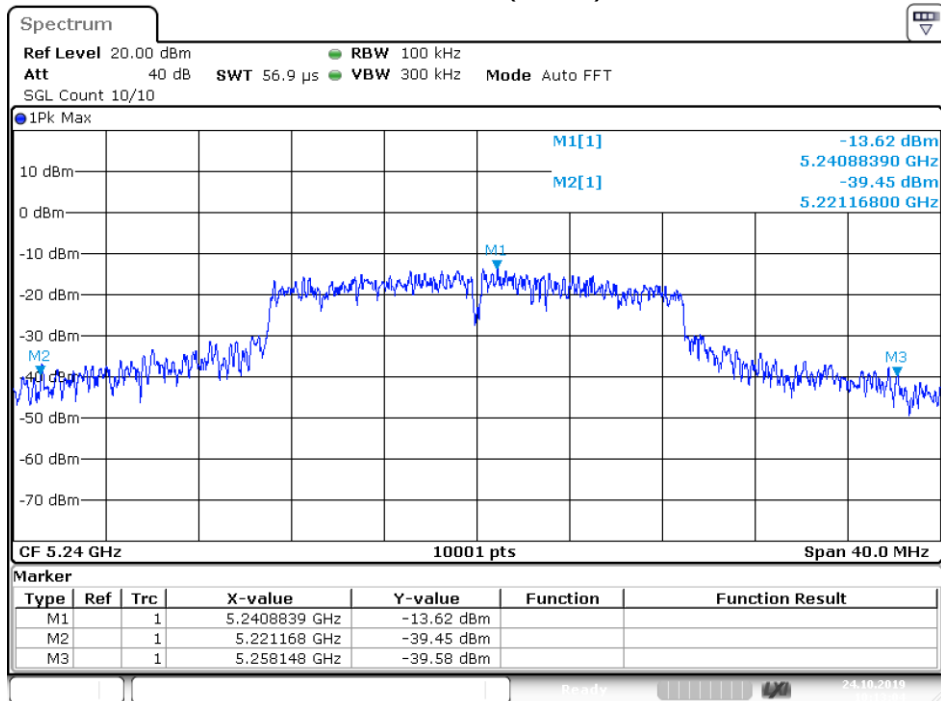
Date: 24.OCT.2019 10:11:29

OBW NVNT 802.11n(HT20) 5240MHz Ant1



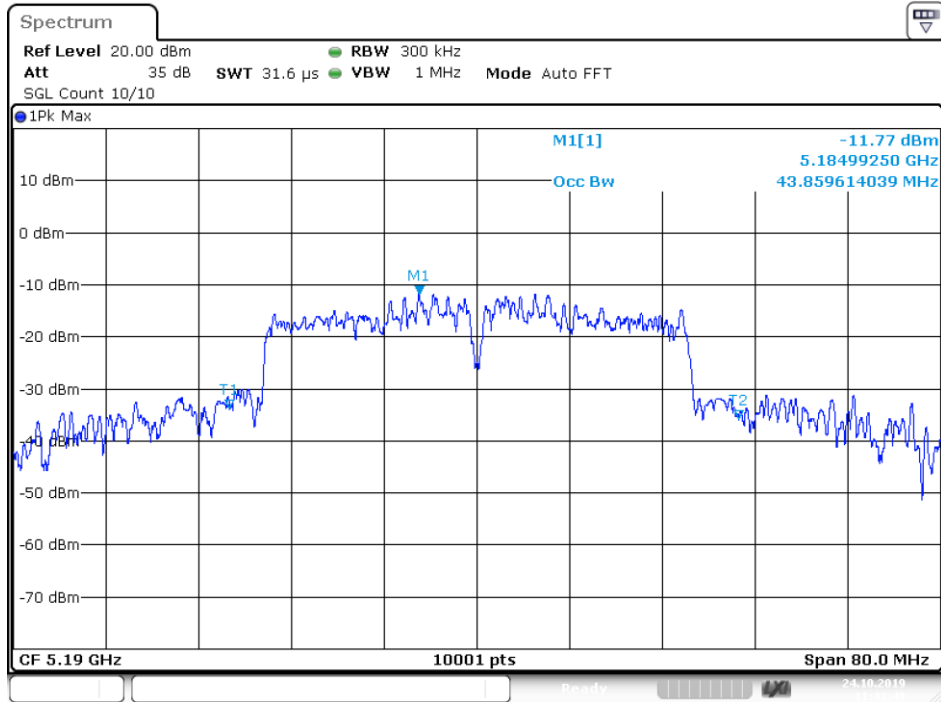
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-26 dB BW NVNT 802.11n(HT20) 5240MHz Ant1



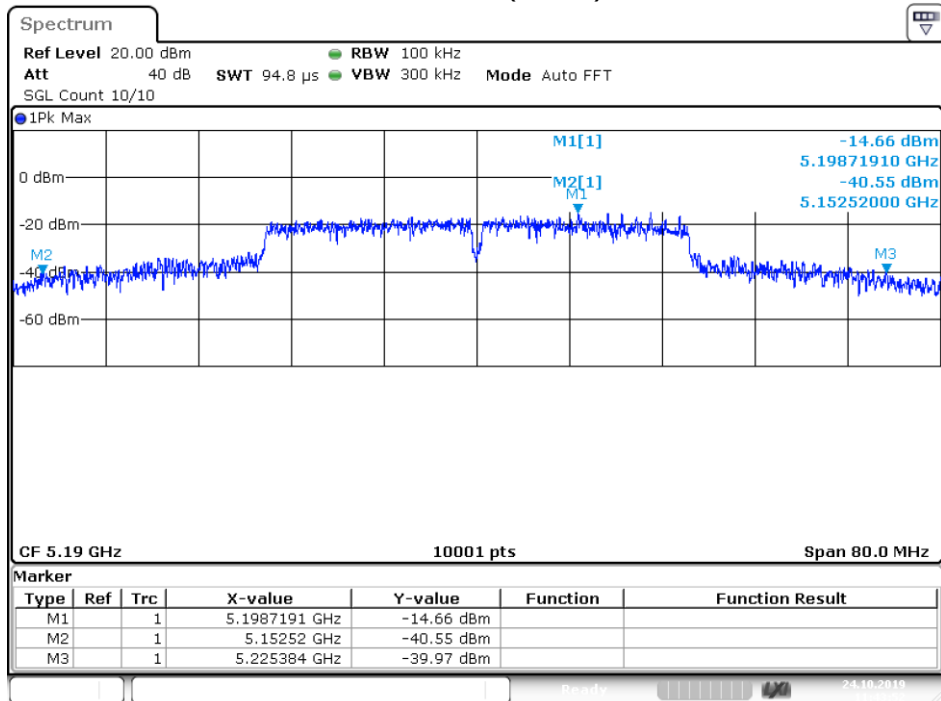
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OBW NVNT 802.11n(HT40) 5190MHz Ant1



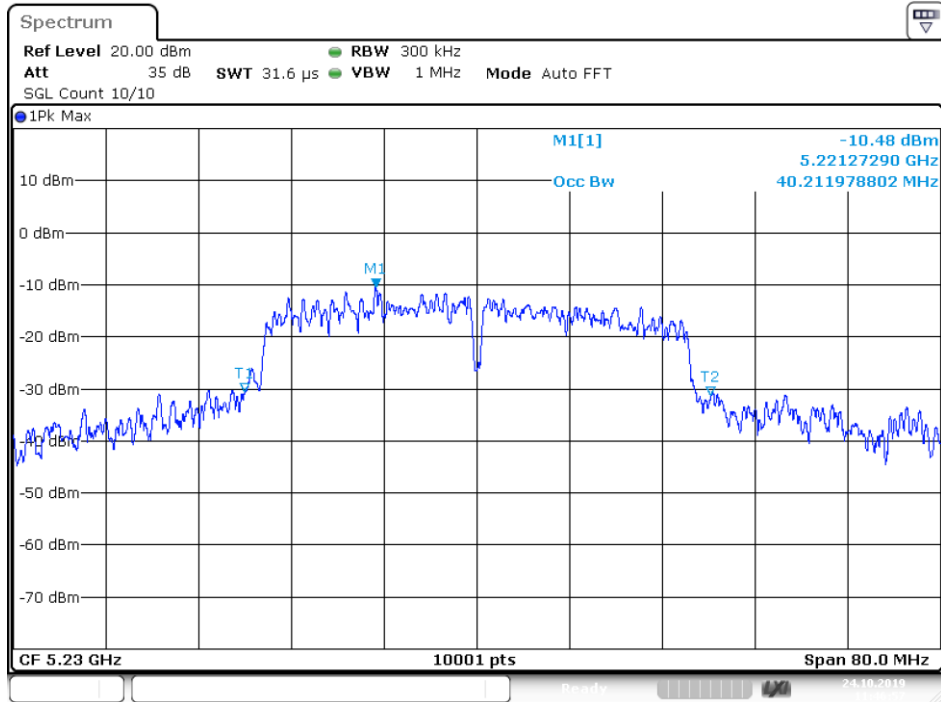
Date: 24.OCT.2019 11:43:49

-26 dB BW NVNT 802.11n(HT40) 5190MHz Ant1



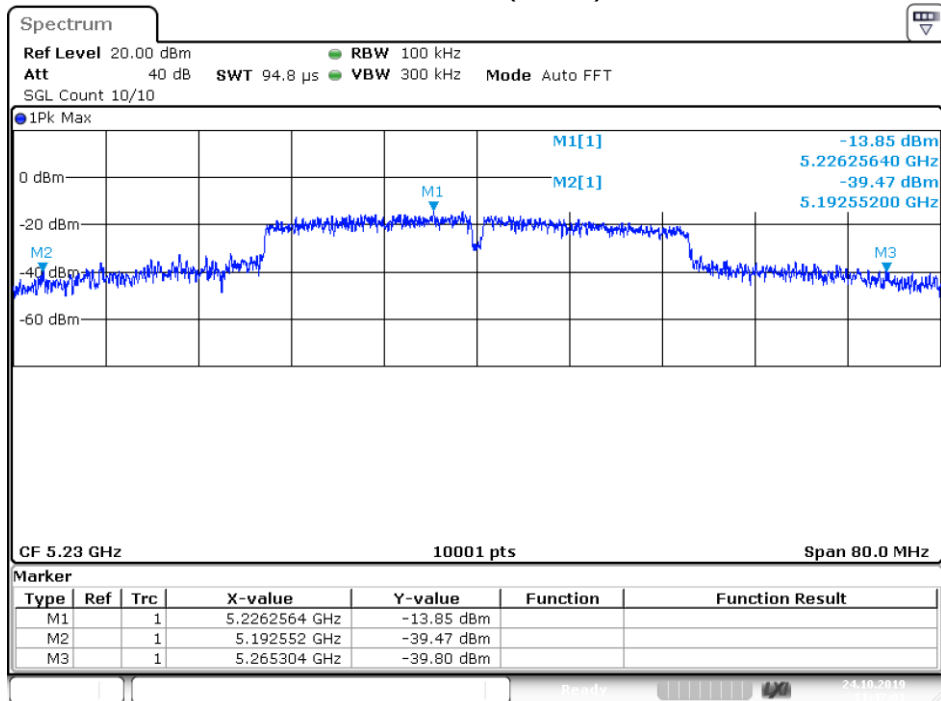
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OBW NVNT 802.11n(HT40) 5230MHz Ant1



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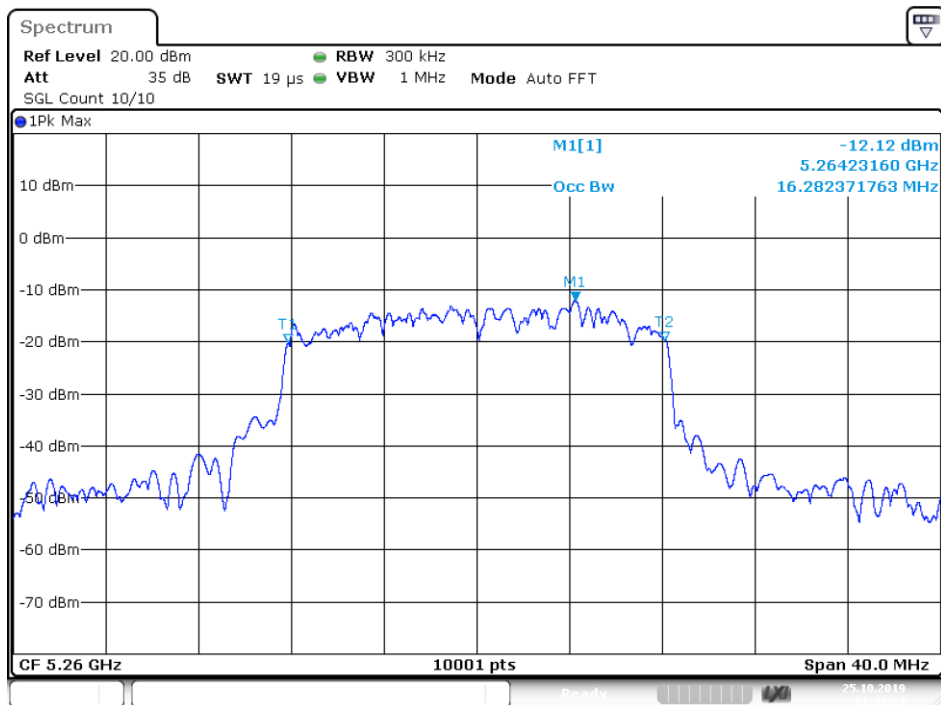
-26 dB BW NVNT 802.11n(HT40) 5230MHz Ant1



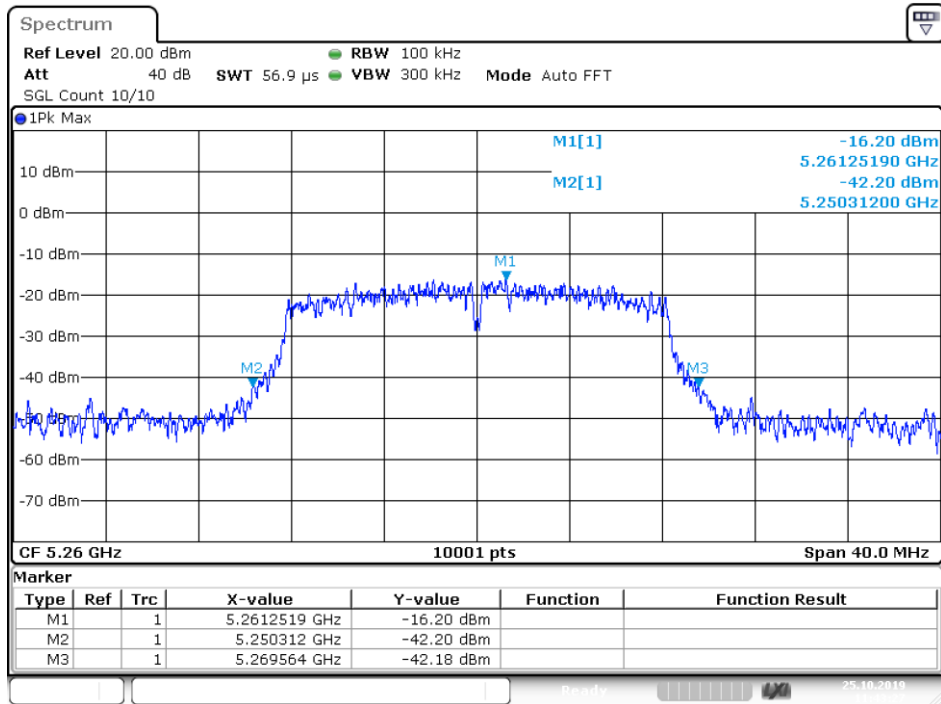
Date: 24.OCT.2019 11:47:00

U-NII-2A							
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVLT	802.11a	5260	Ant 1	16.2824	19.252	0	Pass
NVLT	802.11a	5280	Ant 1	16.3464	19.156	0	Pass
NVLT	802.11a	5320	Ant 1	16.4624	19.368	0	Pass
NVLT	802.11ac20	5260	Ant 1	17.5622	19.824	0	Pass
NVLT	802.11ac20	5280	Ant 1	17.5142	20.036	0	Pass
NVLT	802.11ac20	5320	Ant 1	17.4903	19.52	0	Pass
NVLT	802.11ac40	5270	Ant 1	35.7724	38.016	0	Pass
NVLT	802.11ac40	5310	Ant 1	35.8924	39.464	0	Pass
NVLT	802.11ac80	5290	Ant 1	75.1445	82.528	0	Pass
NVLT	802.11n(HT20)	5260	Ant 1	17.4143	19.212	0	Pass
NVLT	802.11n(HT20)	5280	Ant 1	17.4663	19.852	0	Pass
NVLT	802.11n(HT20)	5320	Ant 1	17.5262	19.744	0	Pass
NVLT	802.11n(HT40)	5270	Ant 1	35.9644	39.64	0	Pass
NVLT	802.11n(HT40)	5310	Ant 1	35.9324	39.08	0	Pass

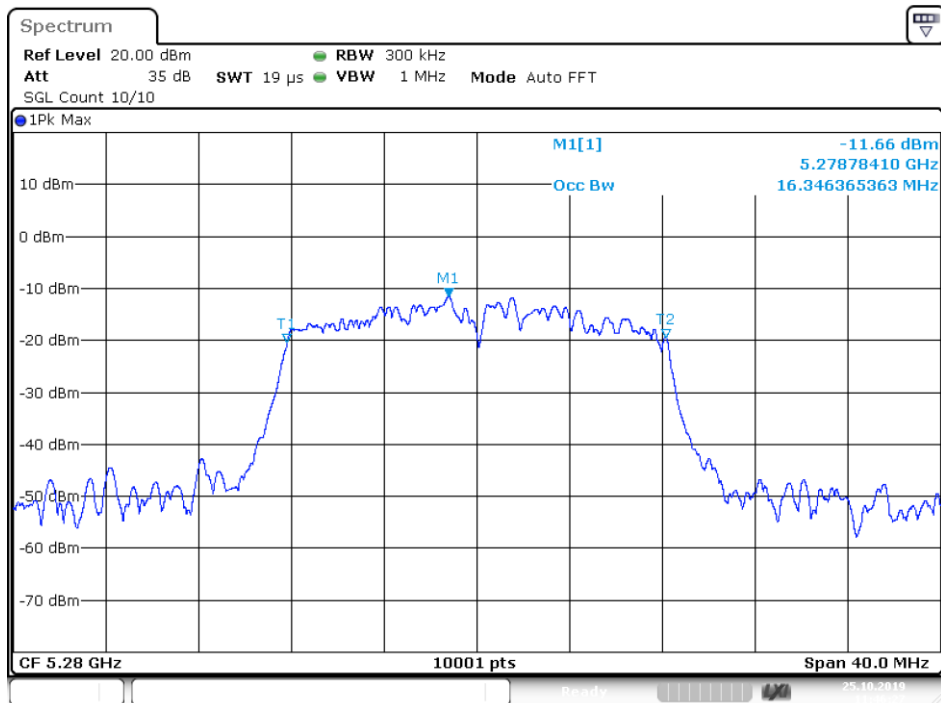
OBW NVLT 802.11a 5260MHz Ant1



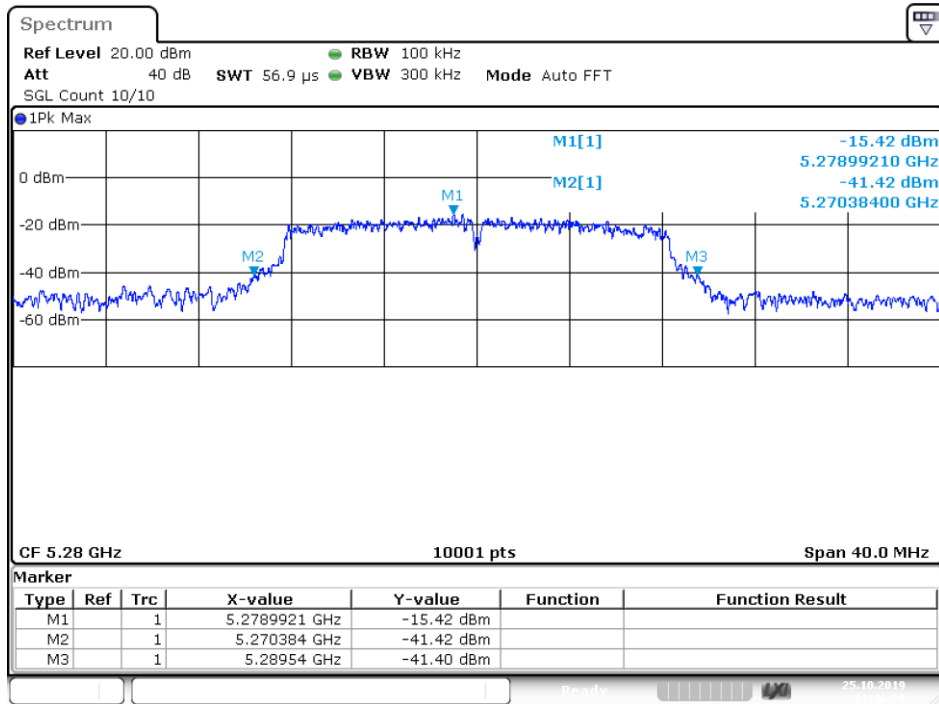
Date: 25.OCT.2019 11:43:24

-26 dB BW NVLT 802.11a 5260MHz Ant1

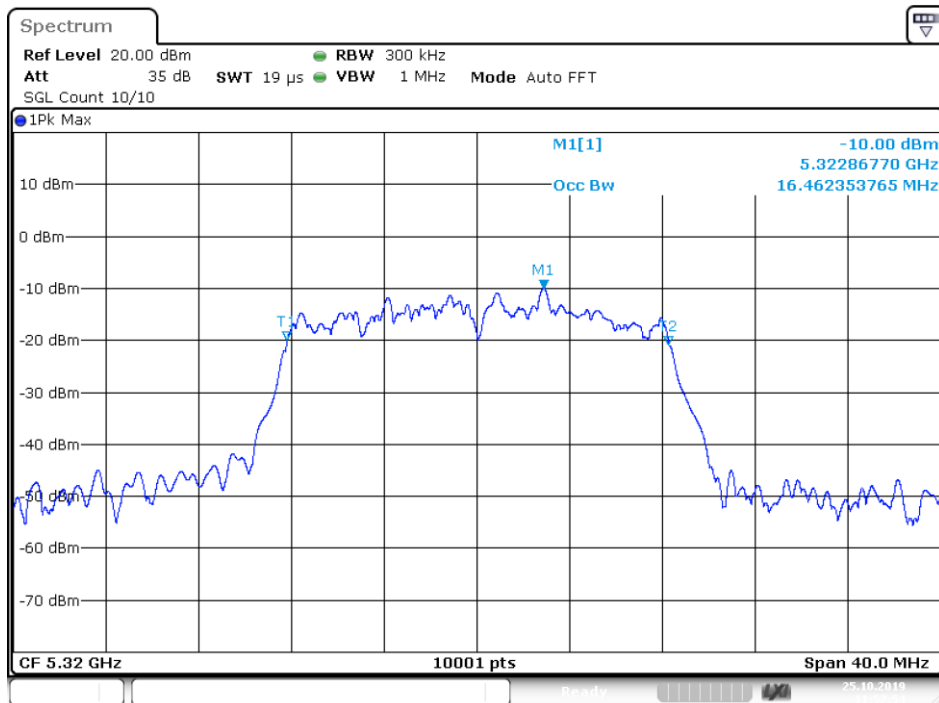
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OBW NVLT 802.11a 5280MHz Ant1

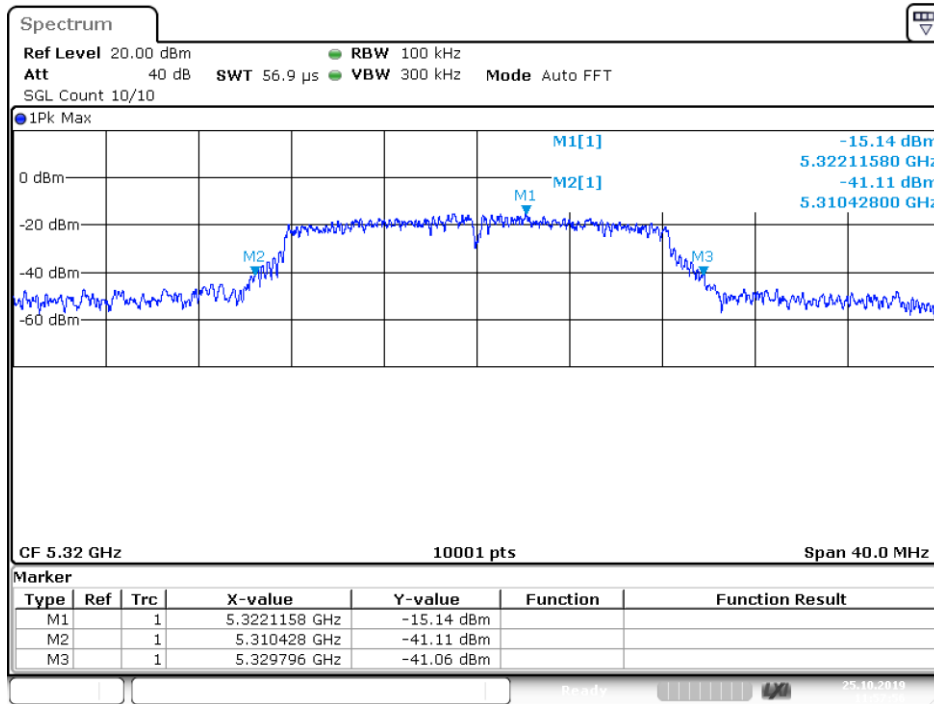
Date: 25.OCT.2019 11:46:26

-26 dB BW NVLT 802.11a 5280MHz Ant1

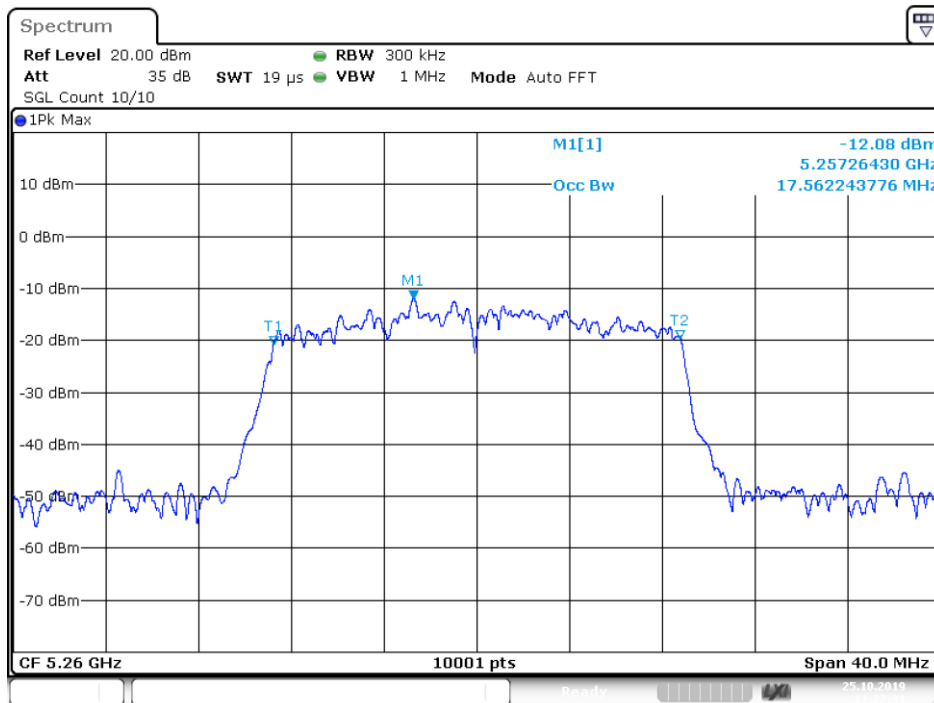
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OBW NVLT 802.11a 5320MHz Ant1

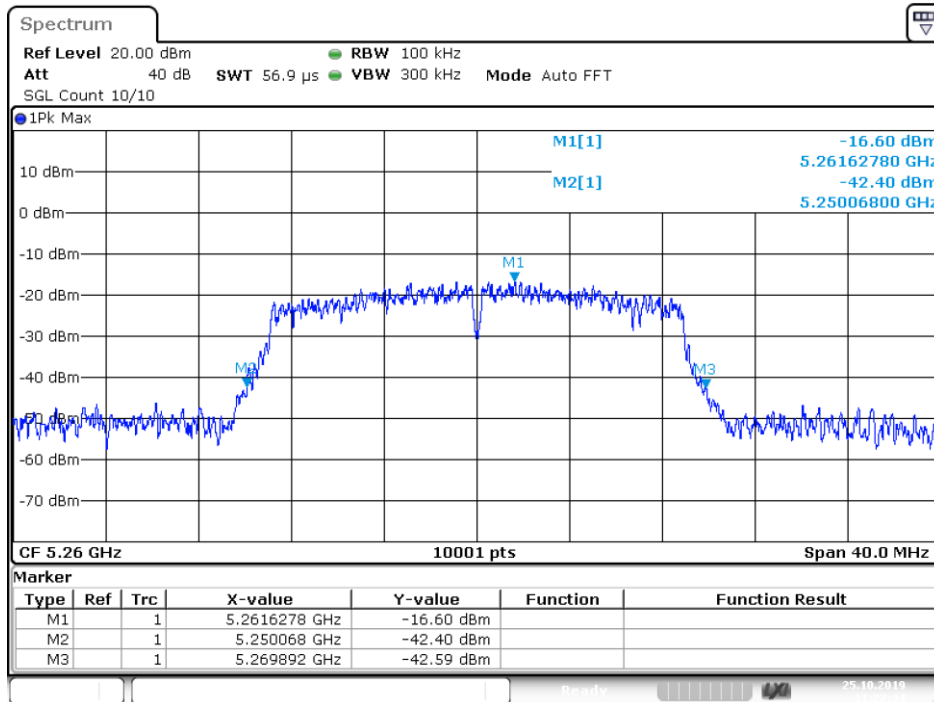
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-26 dB BW NVLT 802.11a 5320MHz Ant1

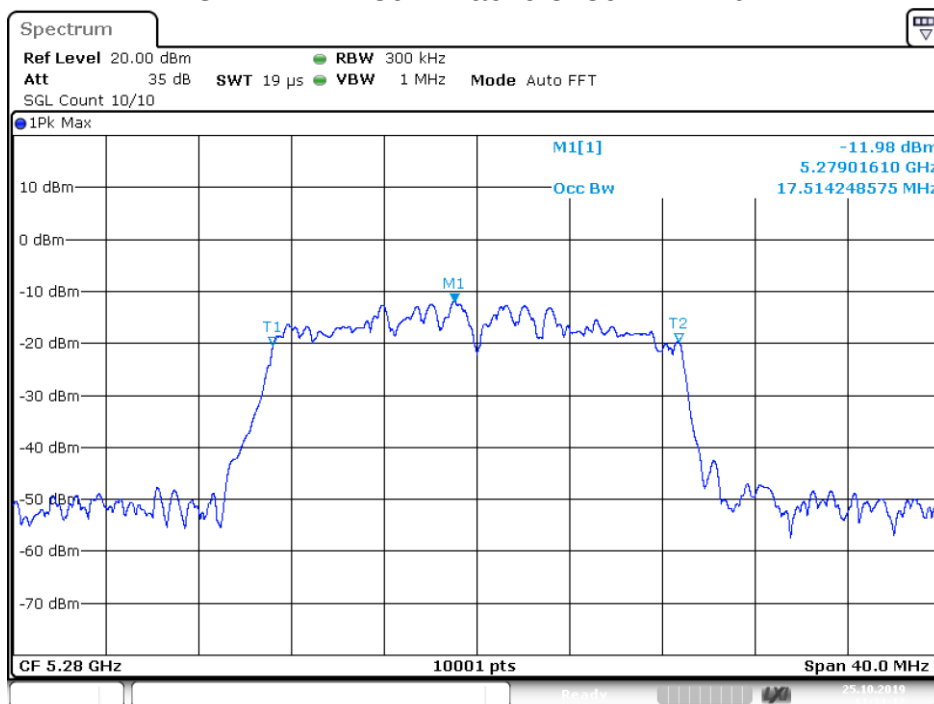
Date: 25.OCT.2019 11:57:56

OBW NVLT 802.11ac20 5260MHz Ant1

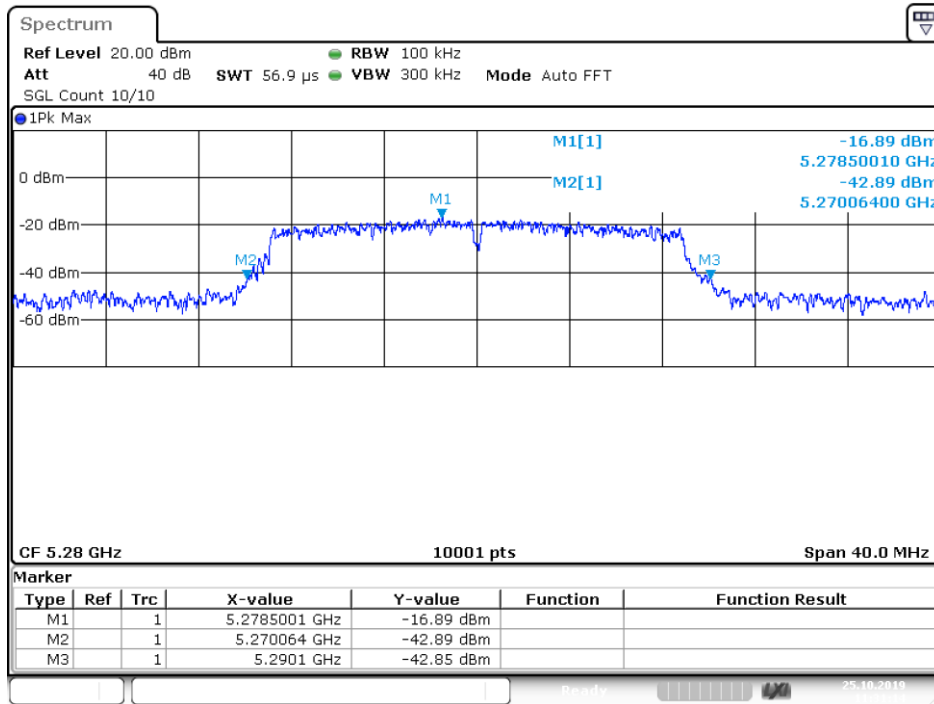
Date: 25.OCT.2019 11:27:31

-26 dB BW NVLT 802.11ac20 5260MHz Ant1

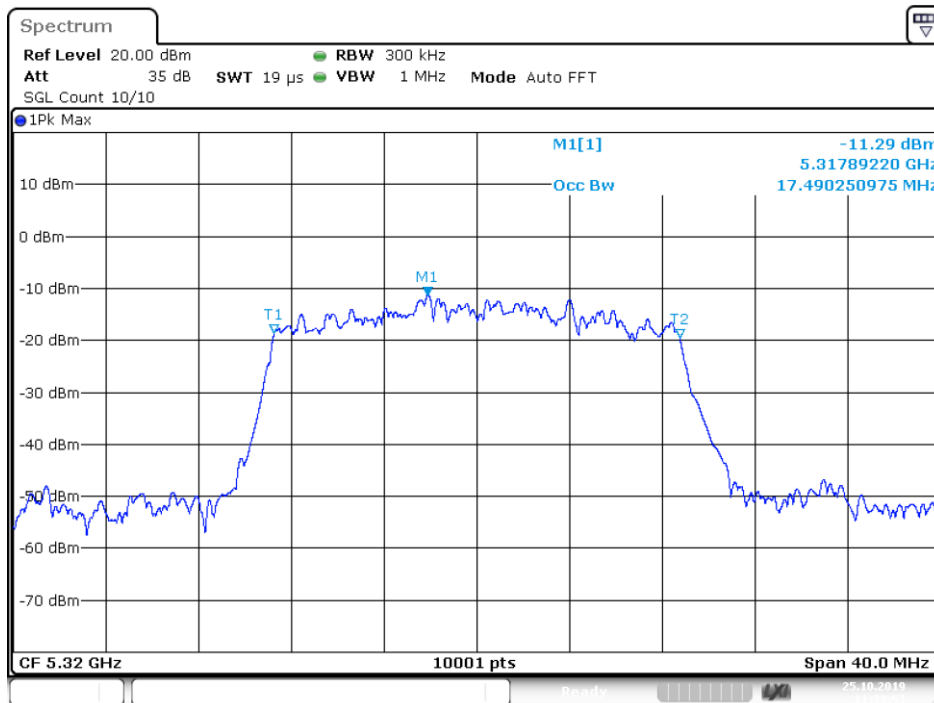
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OBW NVLT 802.11ac20 5280MHz Ant1

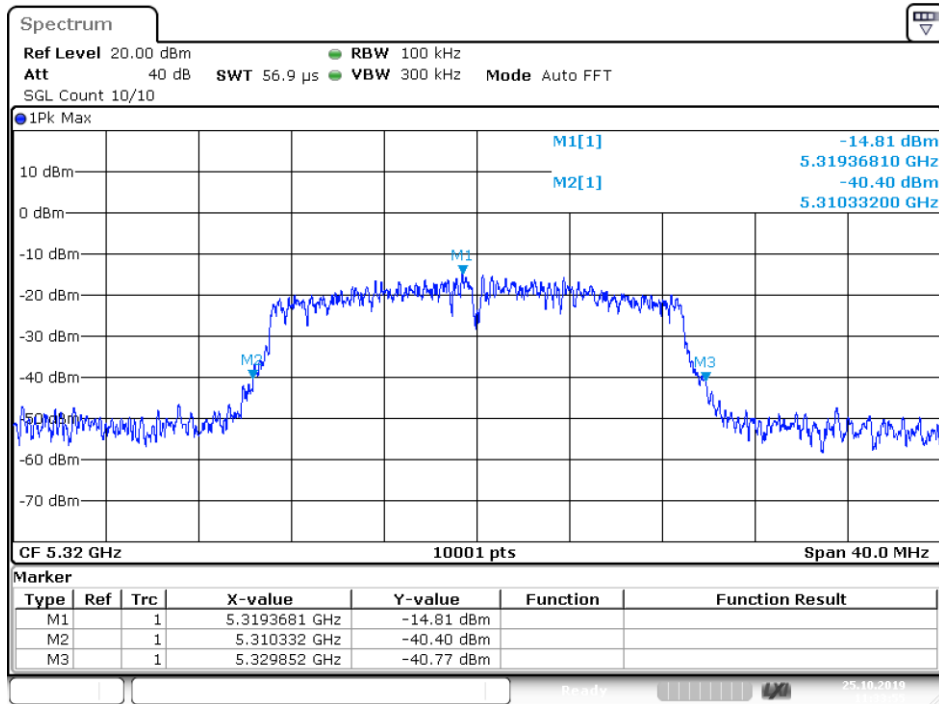
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-26 dB BW NVLT 802.11ac20 5280MHz Ant1

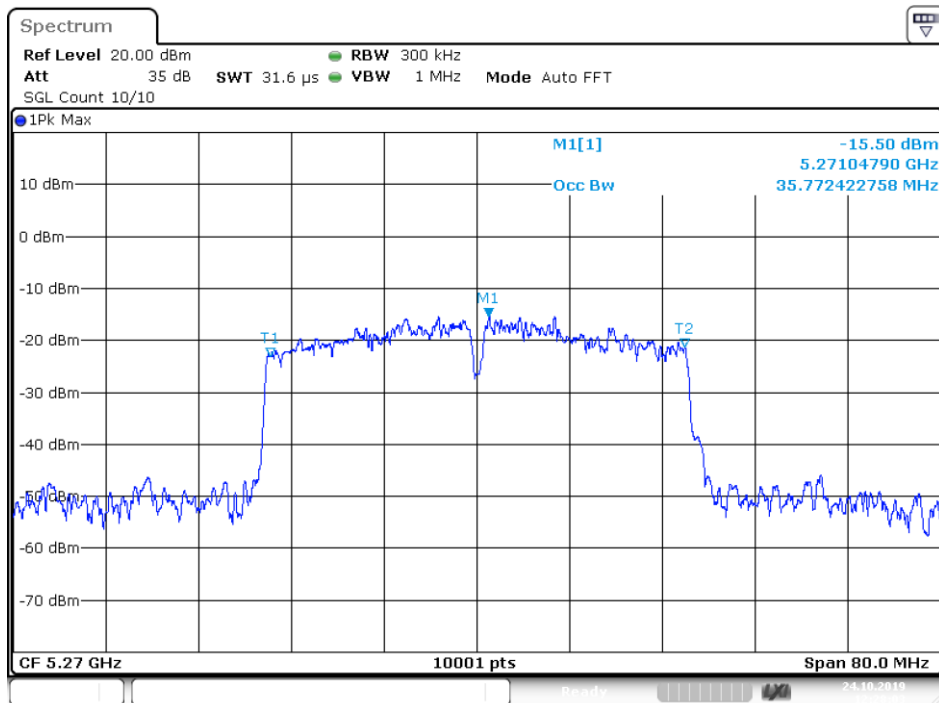
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OBW NVLT 802.11ac20 5320MHz Ant1

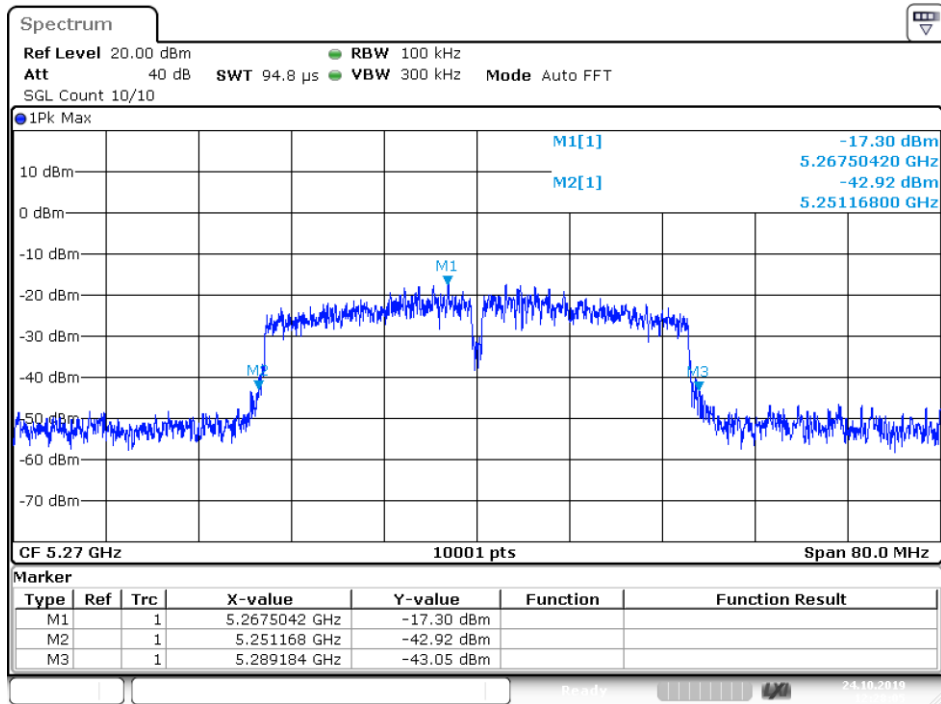
Date: 25.OCT.2019 11:33:52

-26 dB BW NVLT 802.11ac20 5320MHz Ant1

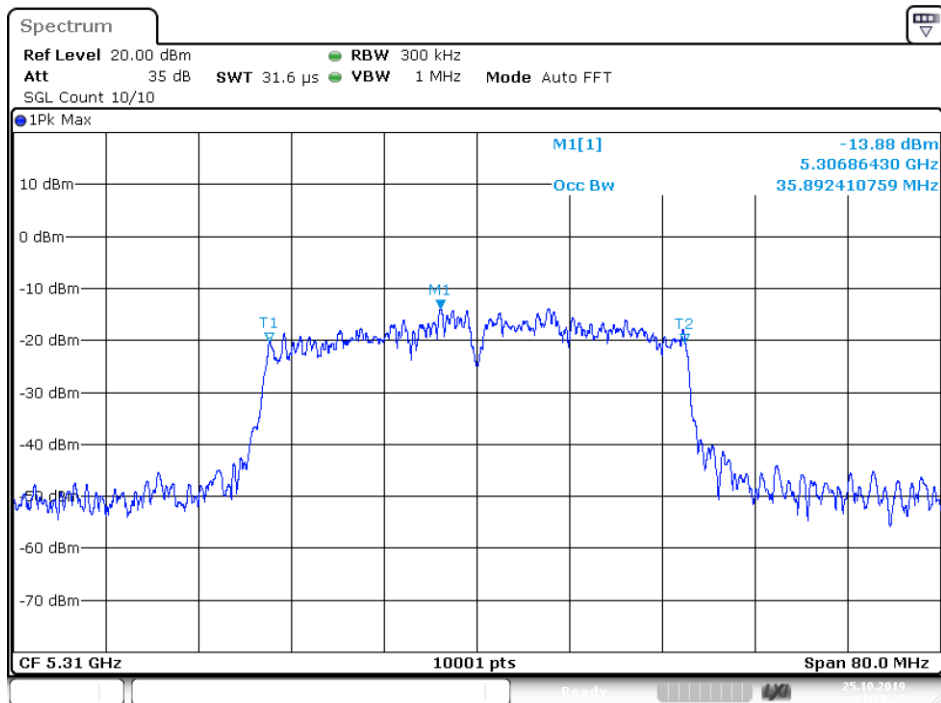
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OBW NVLT 802.11ac40 5270MHz Ant1

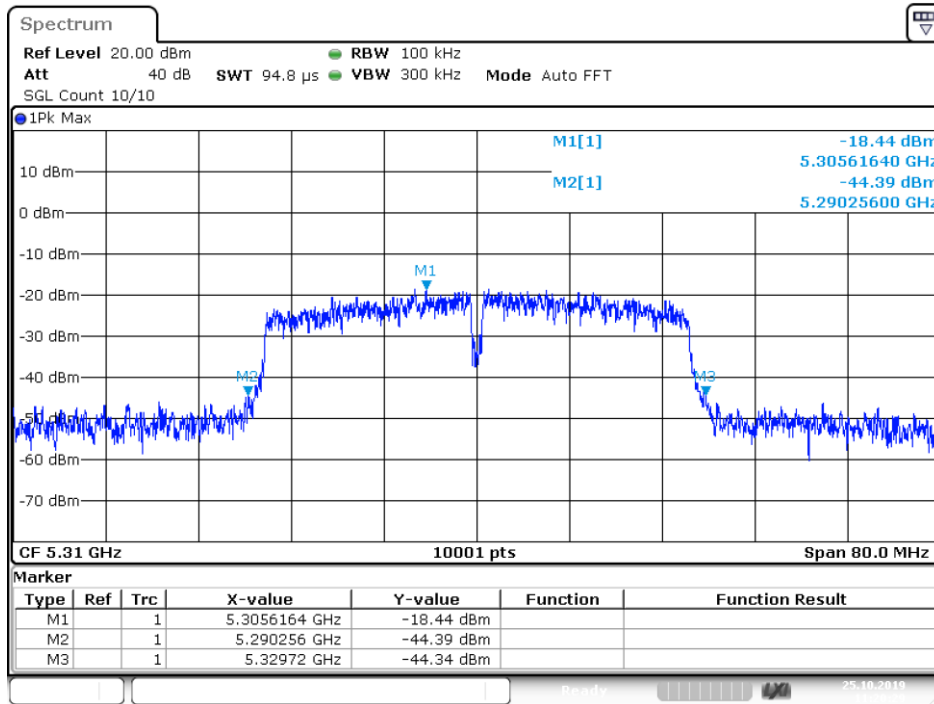
Date: 24.OCT.2019 12:28:03

-26 dB BW NVLT 802.11ac40 5270MHz Ant1

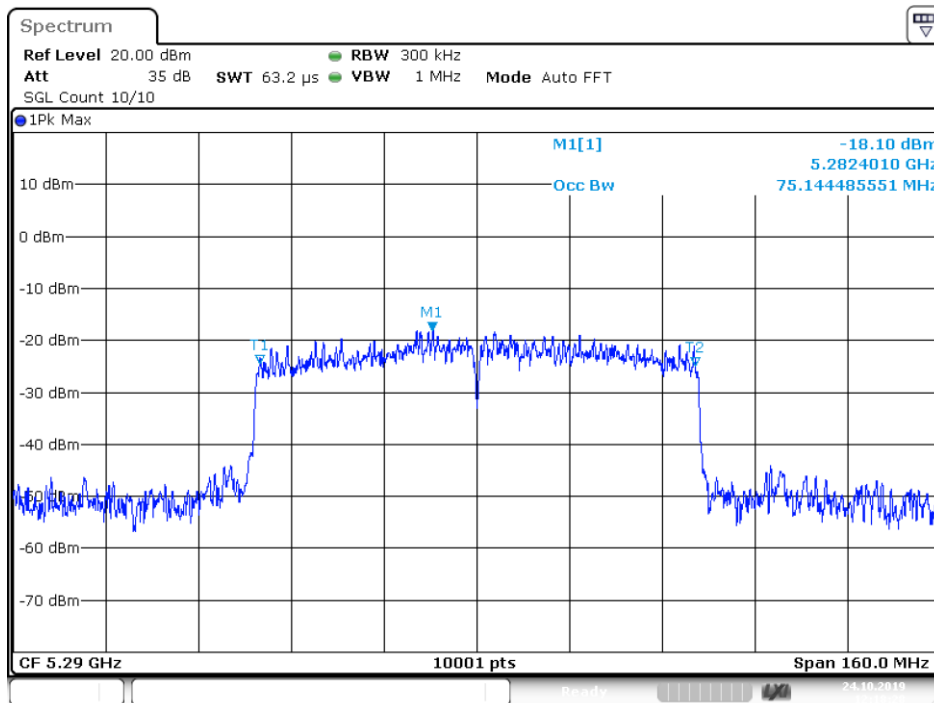
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OBW NVLT 802.11ac40 5310MHz Ant1

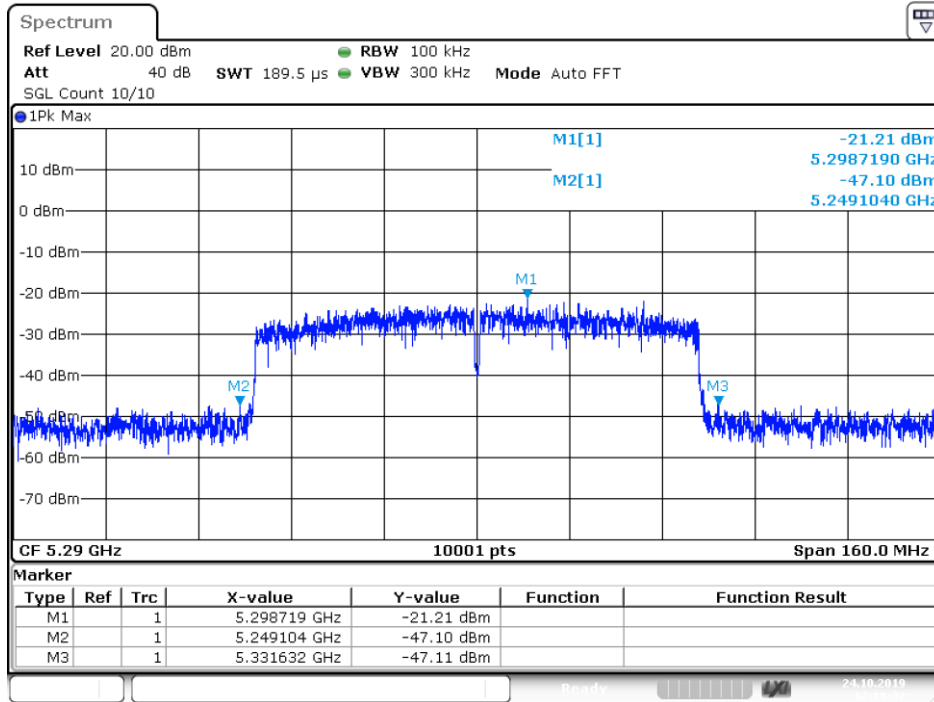
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-26 dB BW NVLT 802.11ac40 5310MHz Ant1

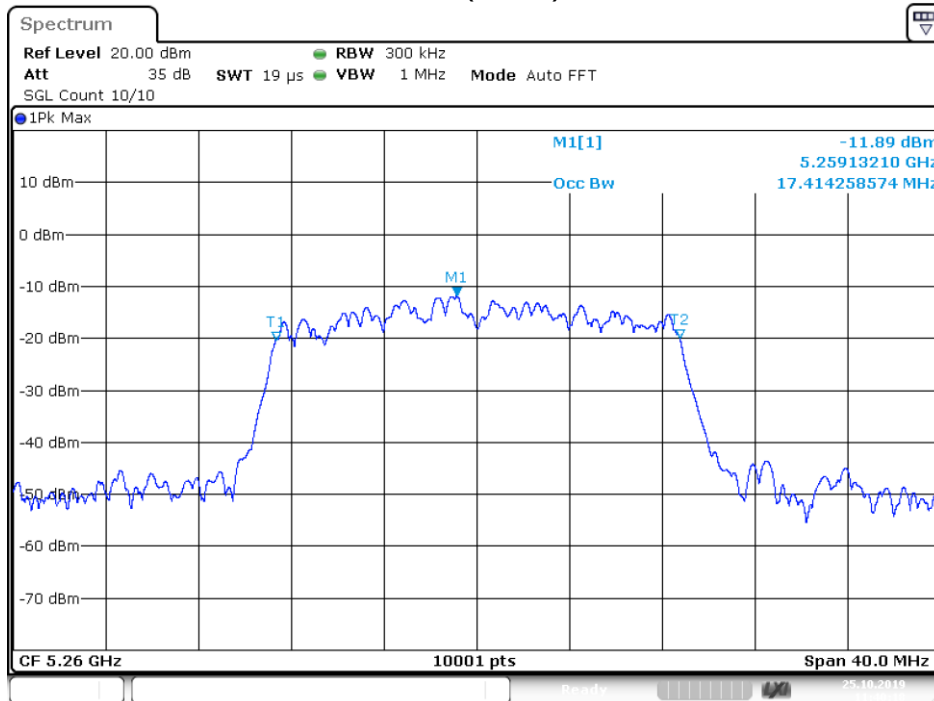
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OBW NVLT 802.11ac80 5290MHz Ant1

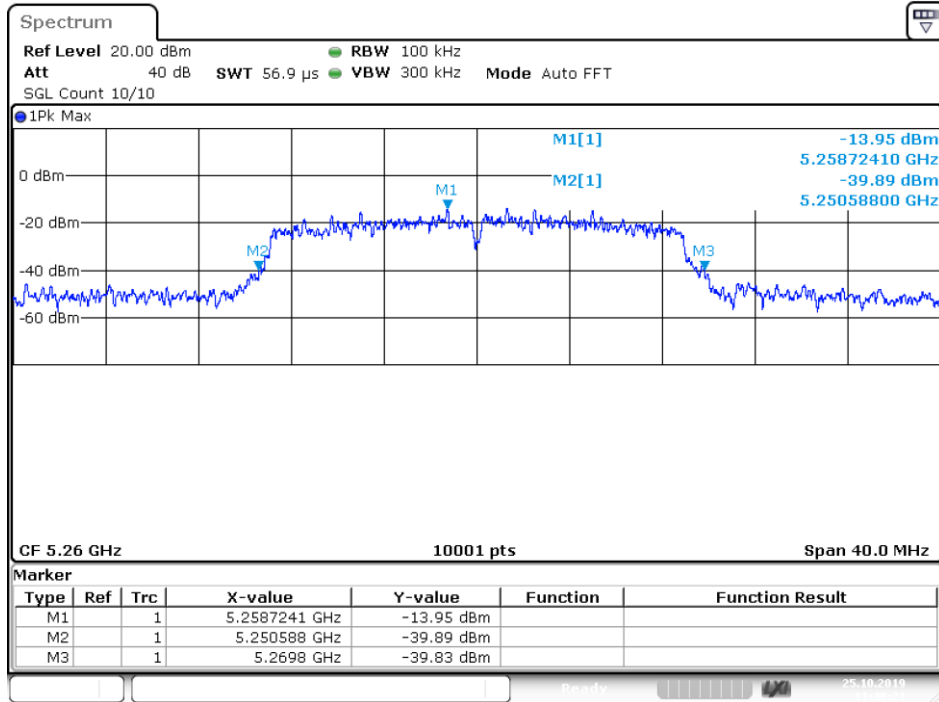
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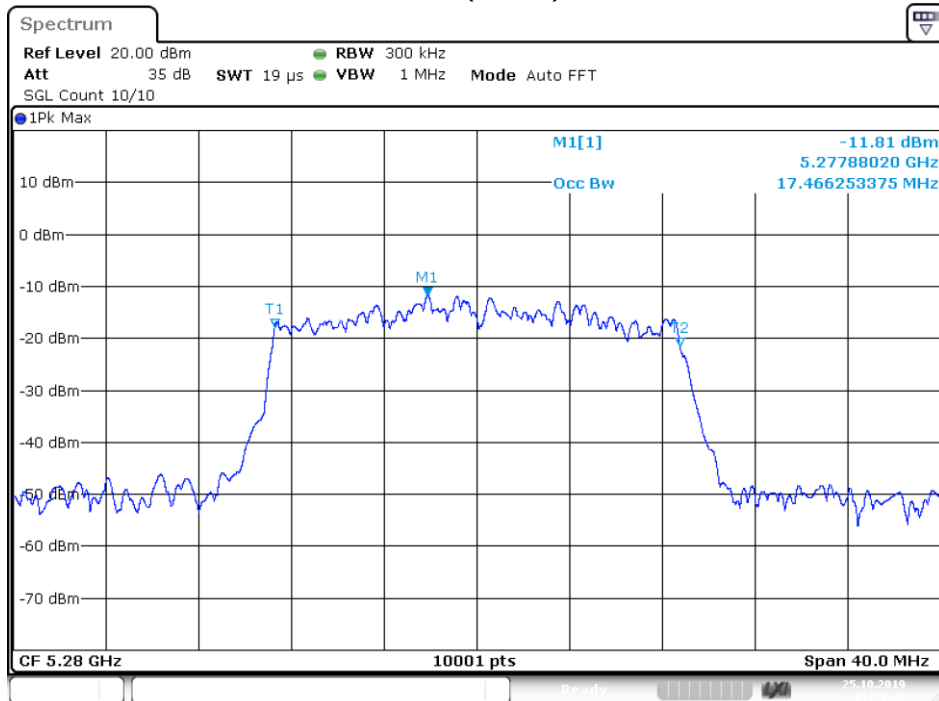
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OBW NVLT 802.11n(HT20) 5260MHz Ant1

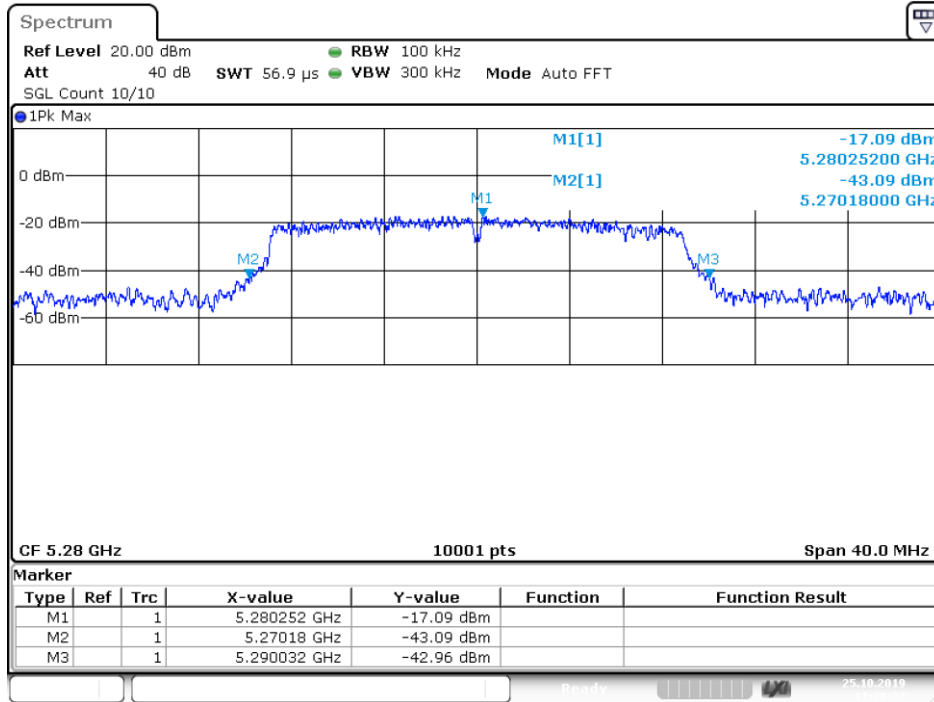
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-26 dB BW NVLT 802.11n(HT20) 5260MHz Ant1

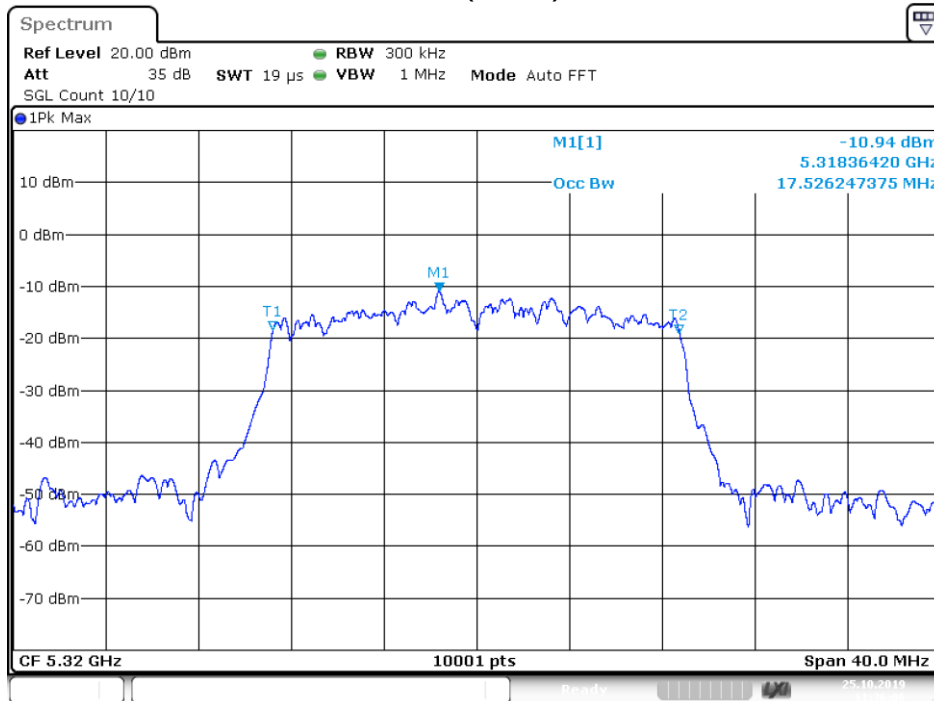
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OBW NVLT 802.11n(HT20) 5280MHz Ant1

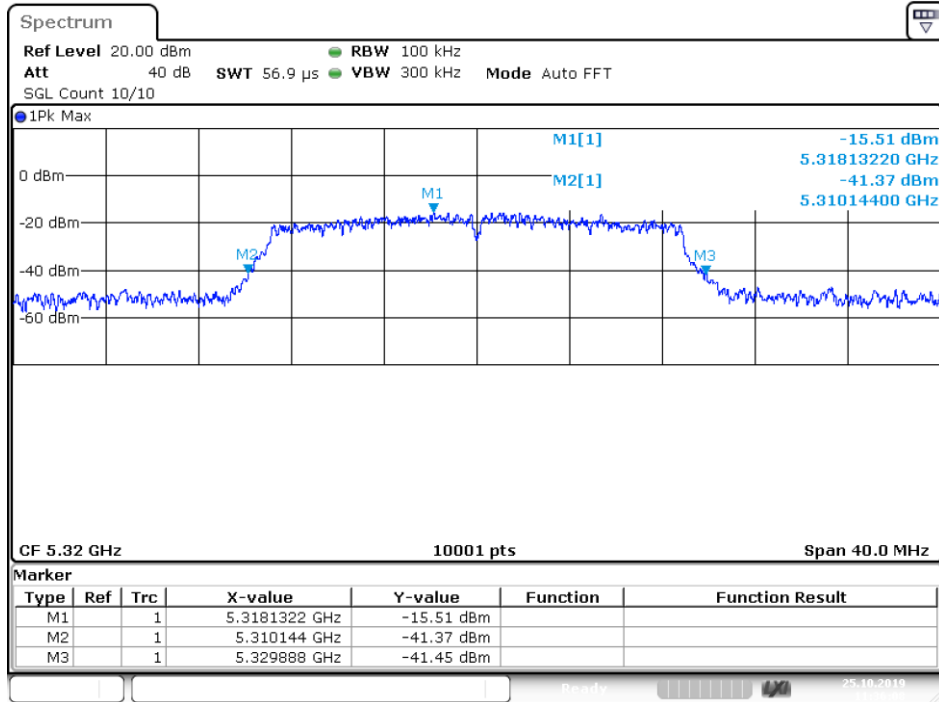
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-26 dB BW NVLT 802.11n(HT20) 5280MHz Ant1

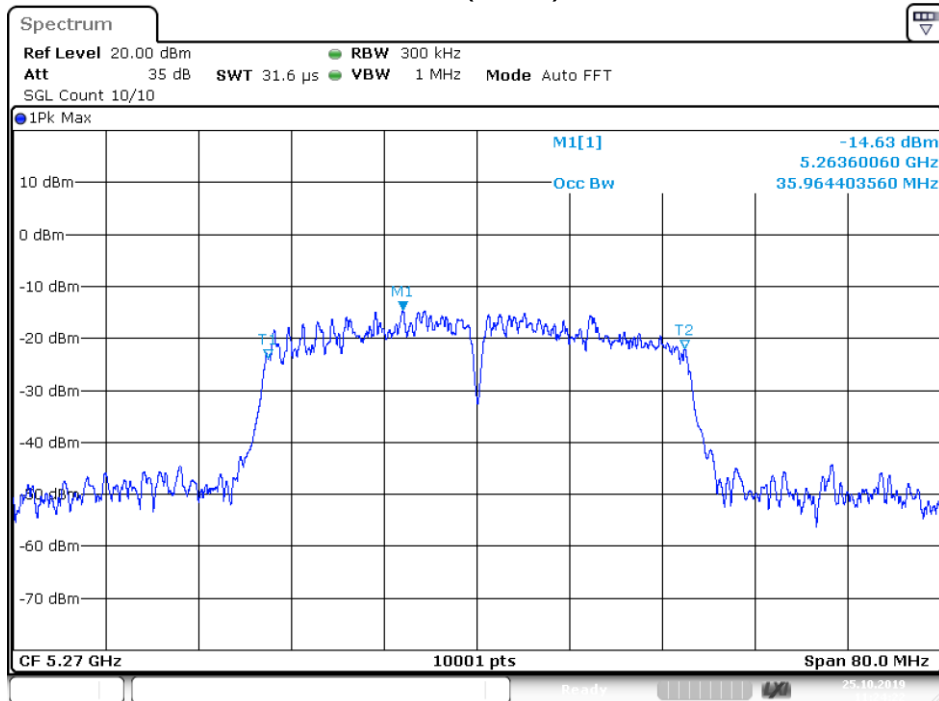
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OBW NVLT 802.11n(HT20) 5320MHz Ant1

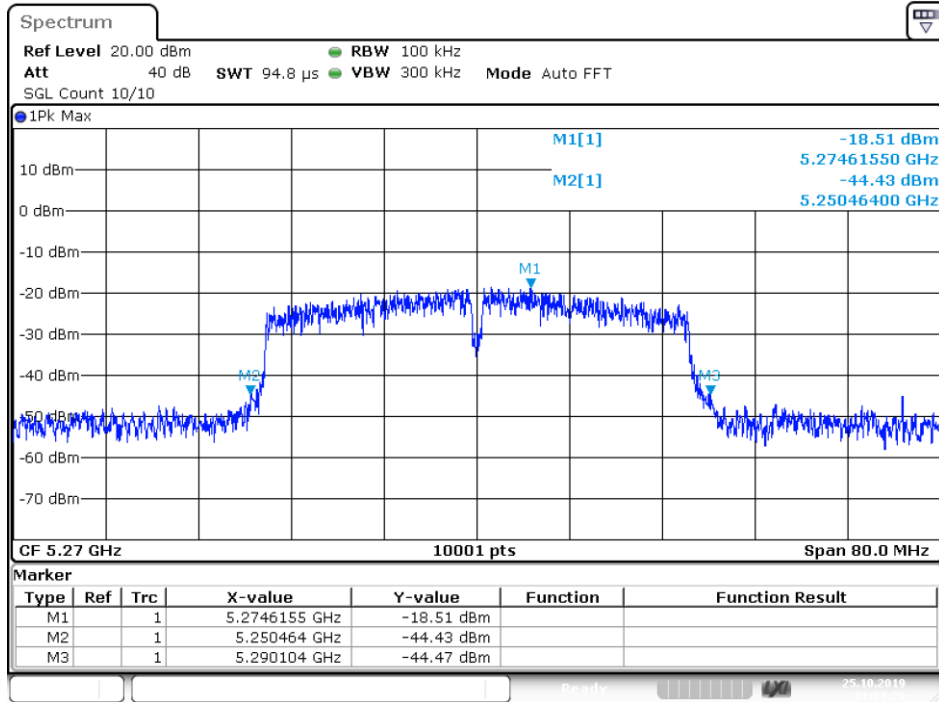
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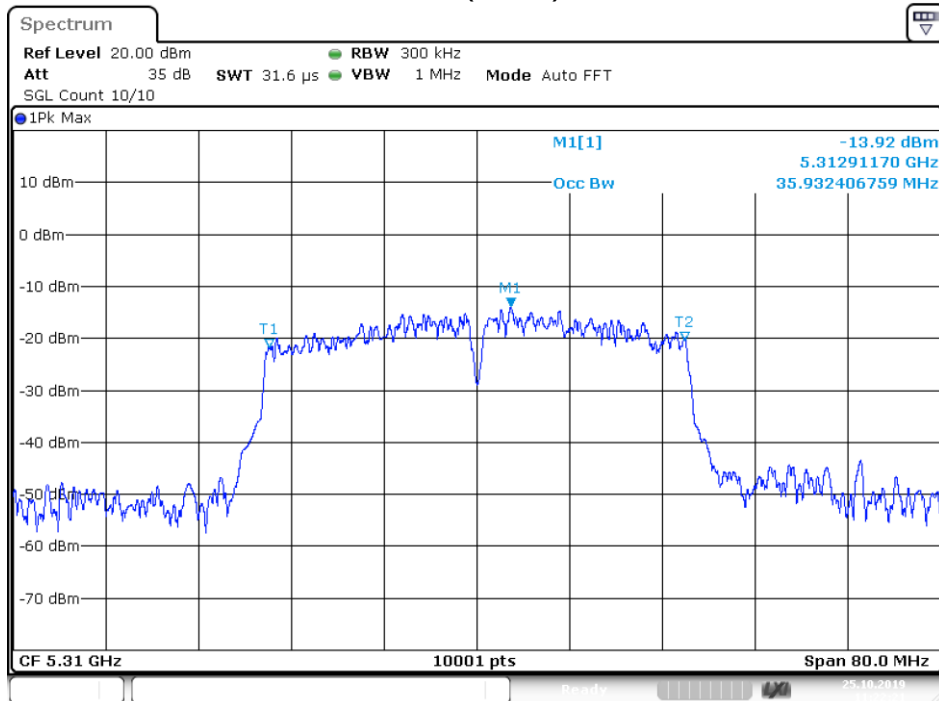
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OBW NVLT 802.11n(HT40) 5270MHz Ant1

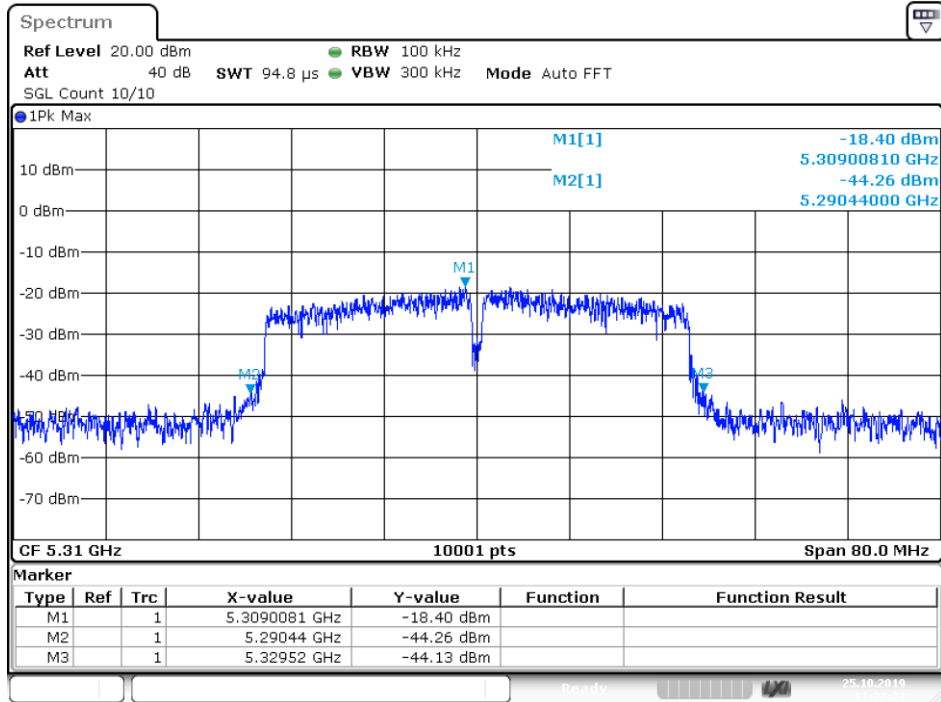
Date: 25.OCT.2019 11:24:22

-26 dB BW NVLT 802.11n(HT40) 5270MHz Ant1

Date: 25.OCT.2019 11:24:25

OBW NVLT 802.11n(HT40) 5310MHz Ant1

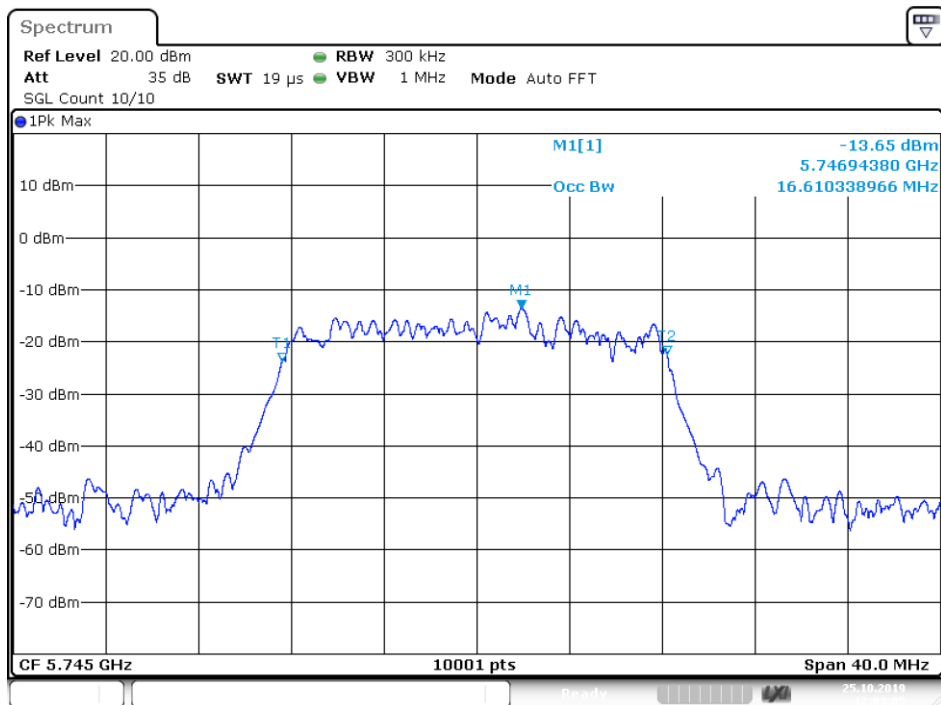
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-26 dB BW NVLT 802.11n(HT40) 5310MHz Ant1

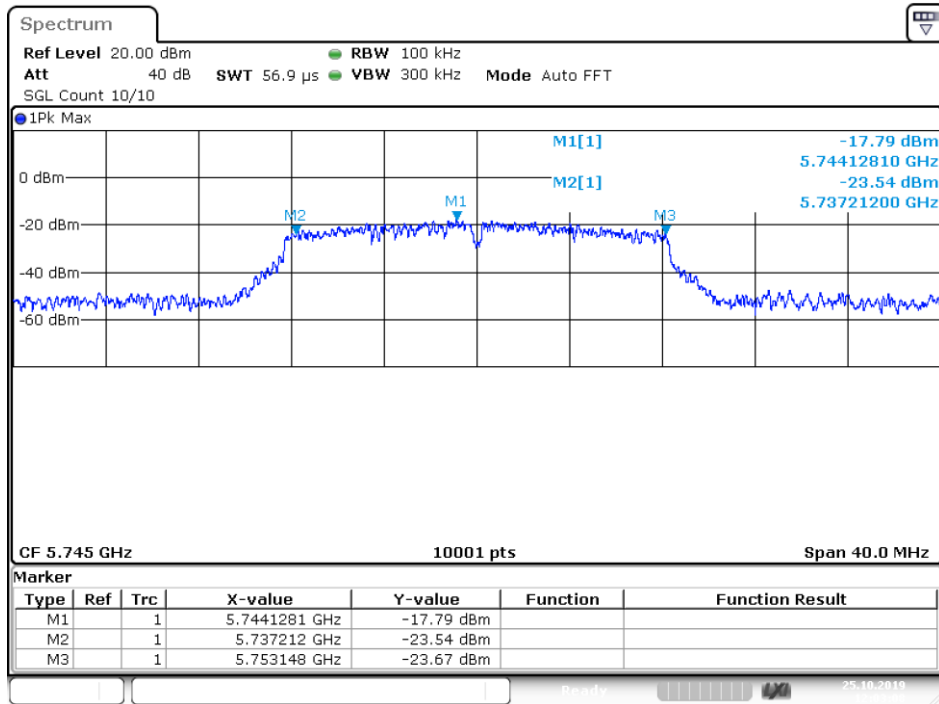
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U-NII-3							
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5745	Ant 1	16.6103	15.936	0.5	Pass
NVNT	802.11a	5785	Ant 1	16.8383	16.304	0.5	Pass
NVNT	802.11a	5825	Ant 1	16.4064	16.304	0.5	Pass
NVNT	802.11ac20	5745	Ant 1	17.6062	16.216	0.5	Pass
NVNT	802.11ac20	5785	Ant 1	17.6302	17.58	0.5	Pass
NVNT	802.11ac20	5825	Ant 1	17.7422	17.532	0.5	Pass
NVNT	802.11ac40	5755	Ant 1	36.0284	36.312	0.5	Pass
NVNT	802.11ac40	5795	Ant 1	35.8364	34.696	0.5	Pass
NVNT	802.11ac80	5775	Ant 1	75.6404	75.632	0.5	Pass
NVNT	802.11n(HT20)	5745	Ant 1	17.7982	17.14	0.5	Pass
NVNT	802.11n(HT20)	5785	Ant 1	17.7982	17.076	0.5	Pass
NVNT	802.11n(HT20)	5825	Ant 1	17.5742	17.428	0.5	Pass
NVNT	802.11n(HT40)	5755	Ant 1	36.1004	35.68	0.5	Pass
NVNT	802.11n(HT40)	5795	Ant 1	35.8684	35.296	0.5	Pass

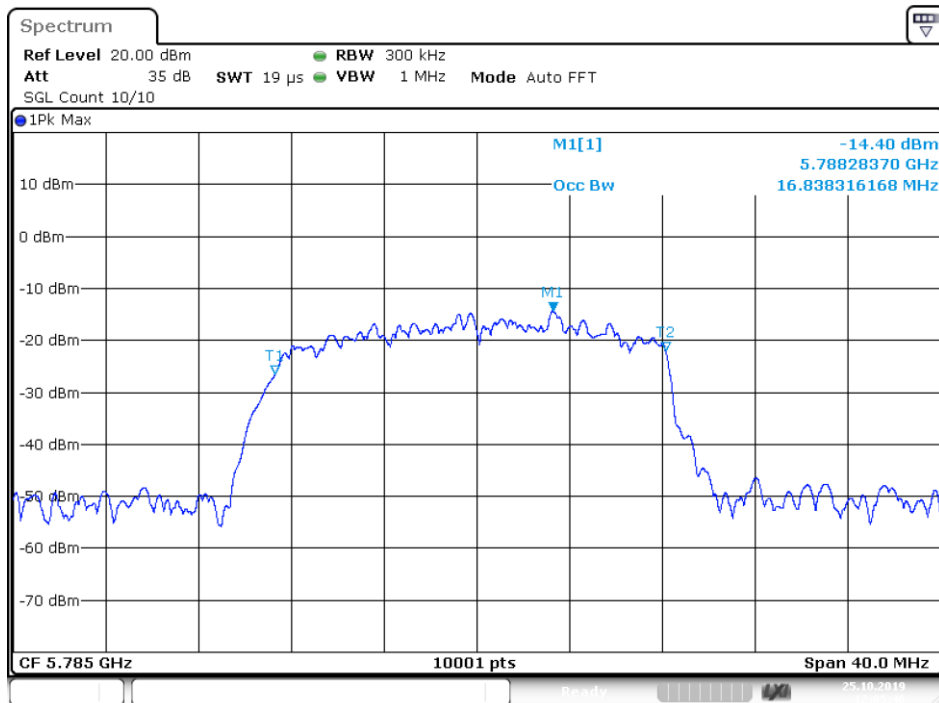
OBW NVNT 802.11a 5745MHz Ant1



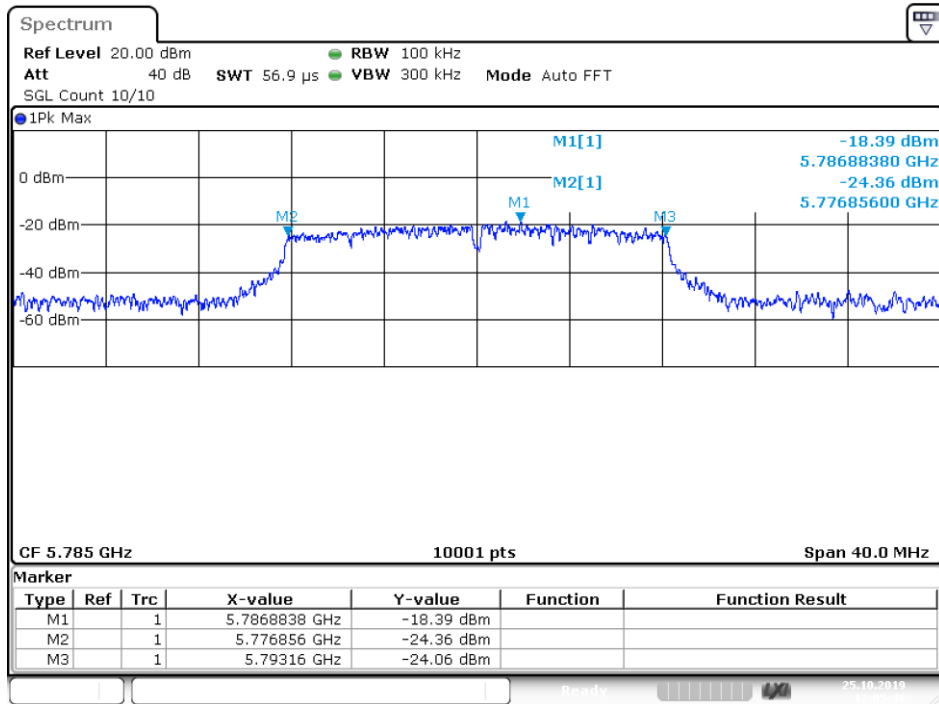
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-6 dB BW NVNT 802.11a 5745MHz Ant1

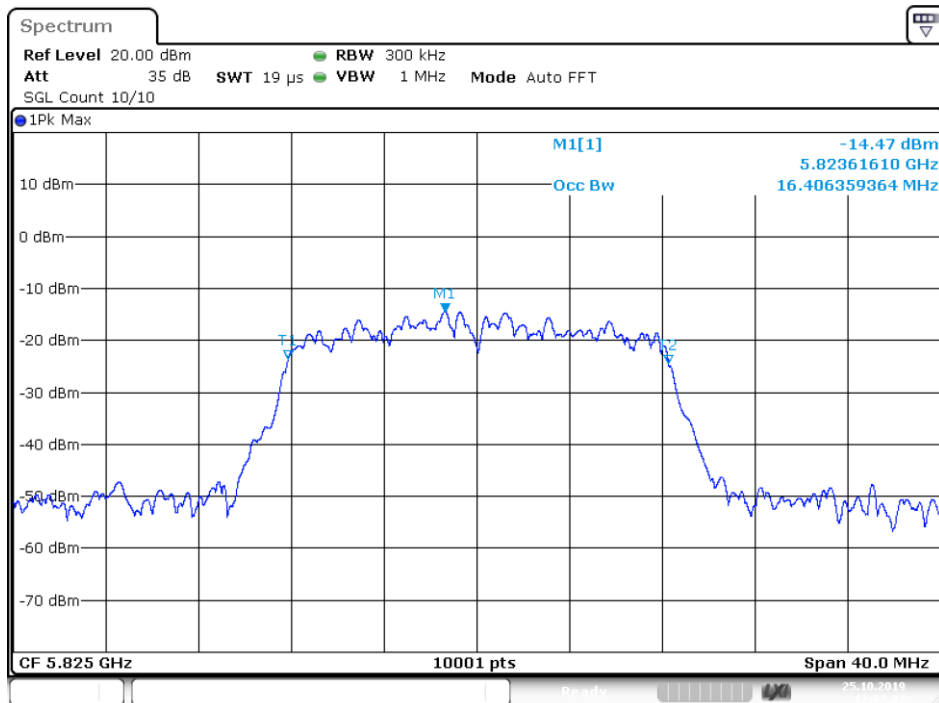
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OBW NVNT 802.11a 5785MHz Ant1

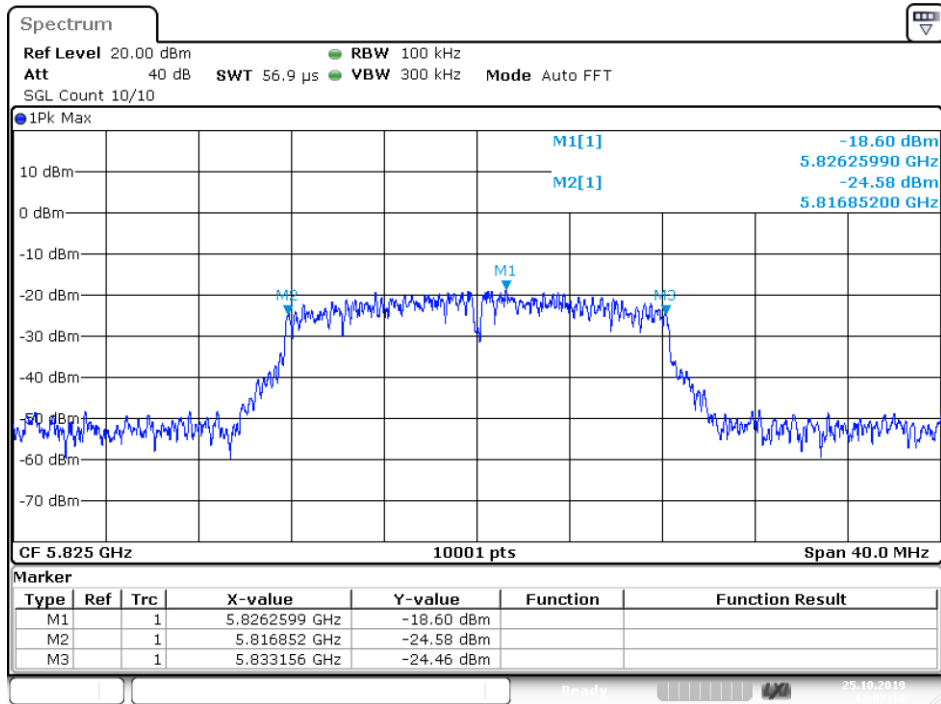
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-6 dB BW NVNT 802.11a 5785MHz Ant1

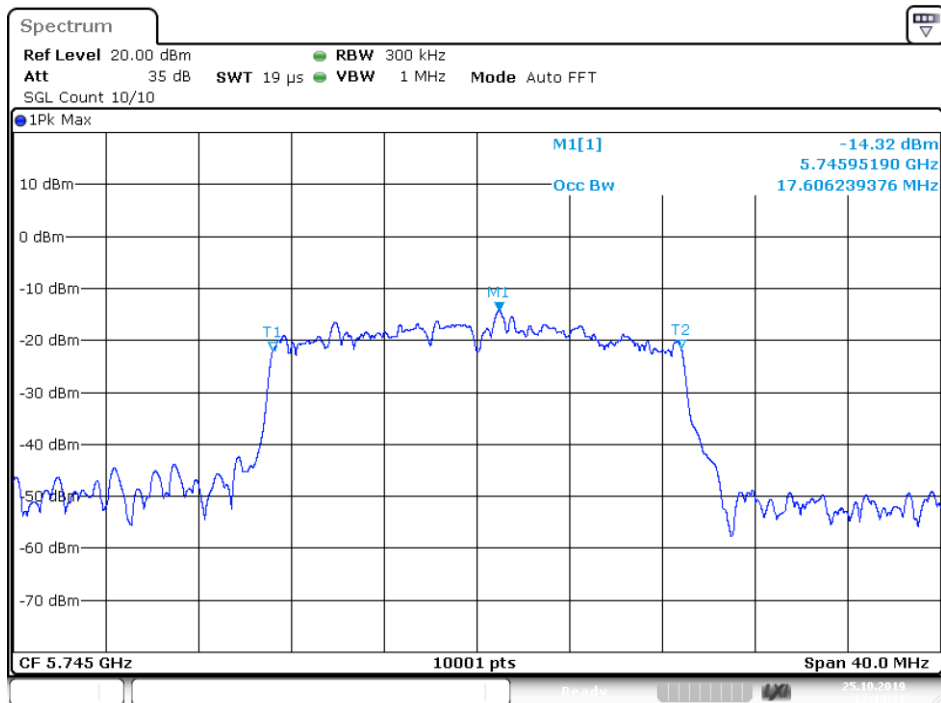
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OBW NVNT 802.11a 5825MHz Ant1

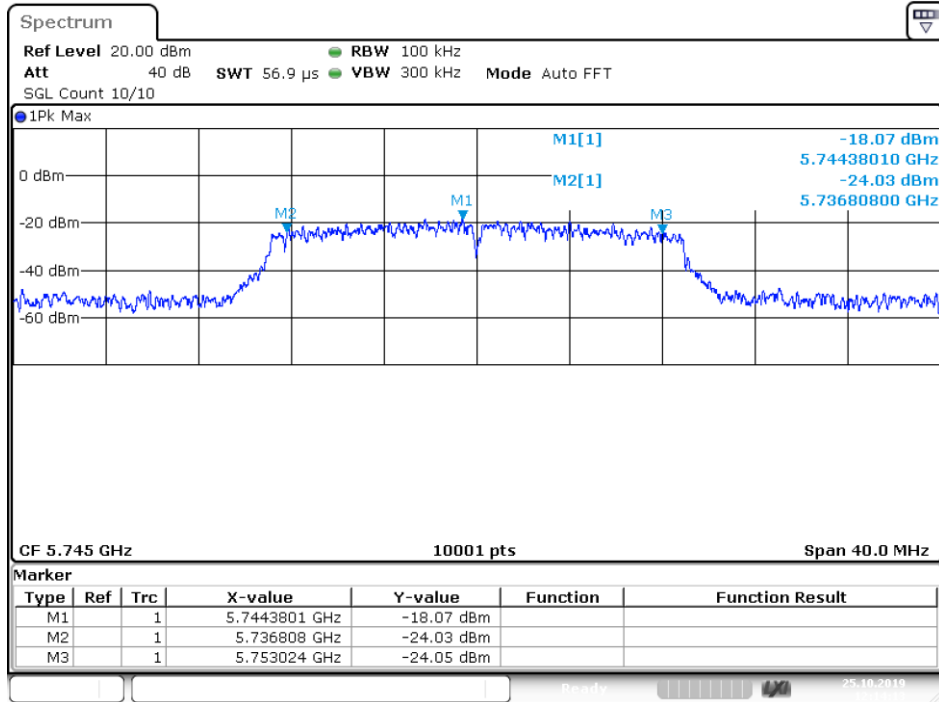
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-6 dB BW NVNT 802.11a 5825MHz Ant1

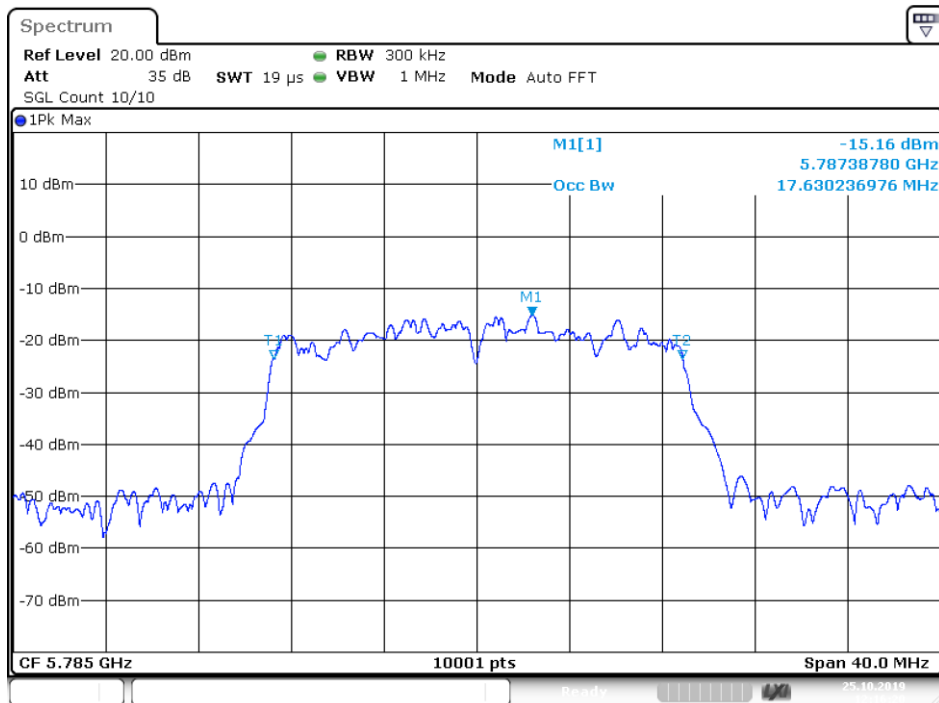
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OBW NVNT 802.11ac20 5745MHz Ant1

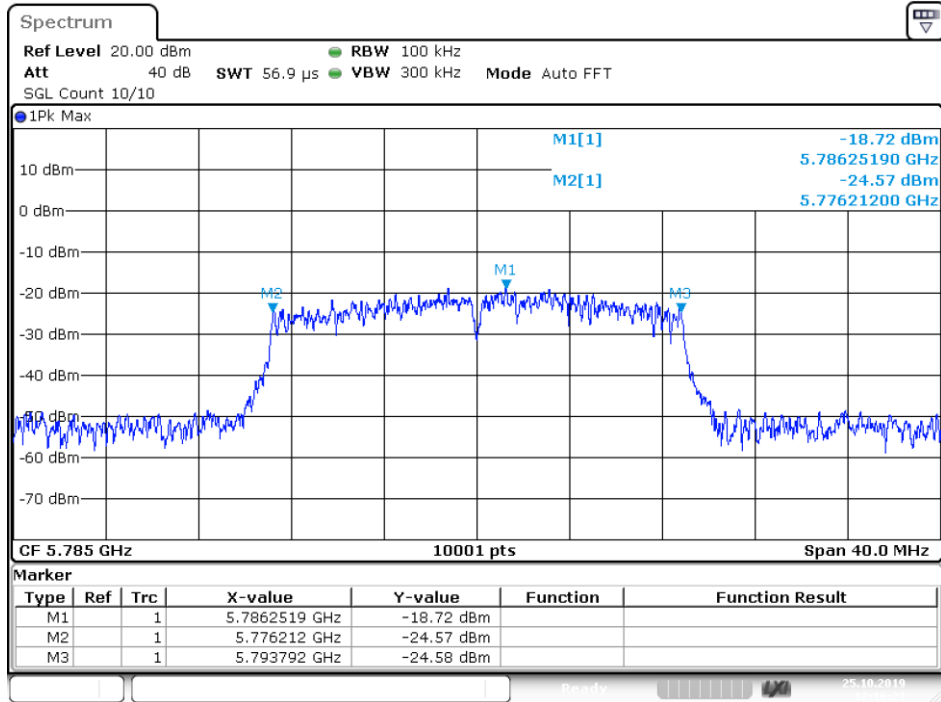
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-6 dB BW NVNT 802.11ac20 5745MHz Ant1

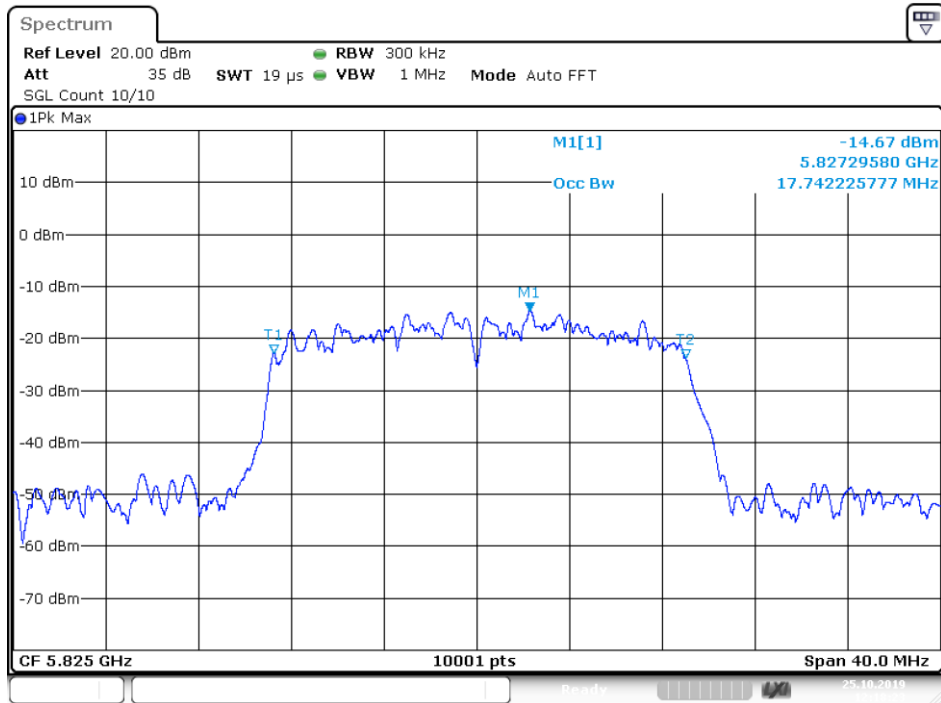
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OBW NVNT 802.11ac20 5785MHz Ant1

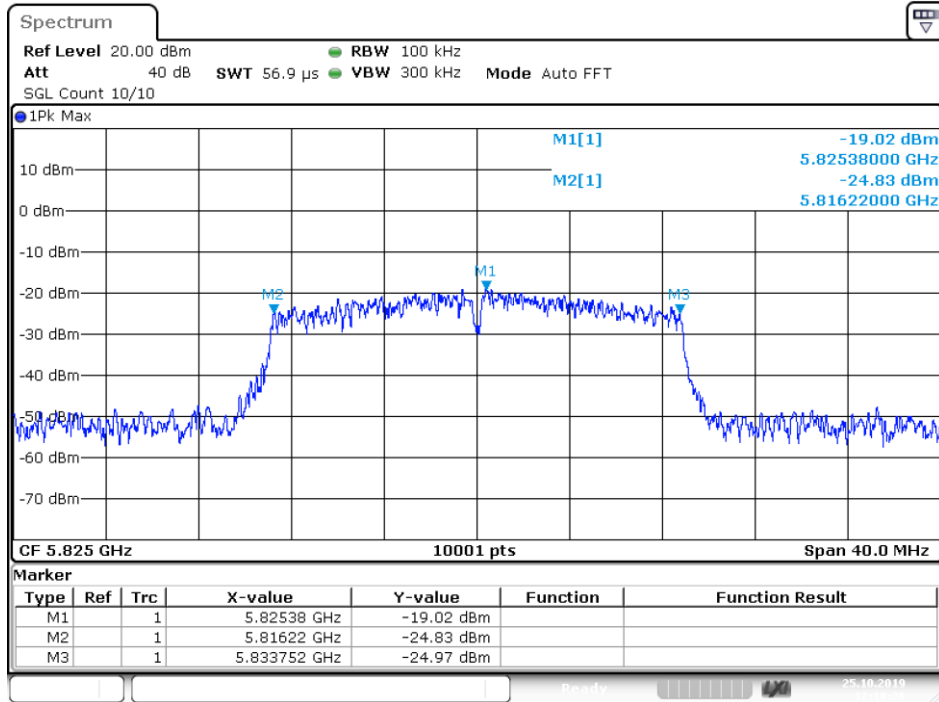
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-6 dB BW NVNT 802.11ac20 5785MHz Ant1

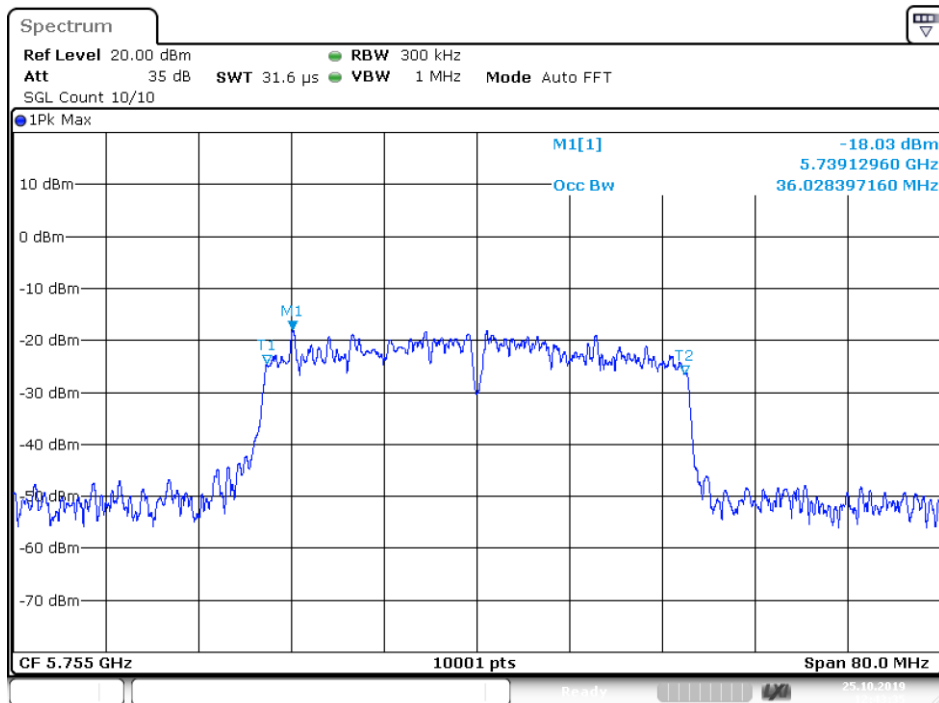
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OBW NVNT 802.11ac20 5825MHz Ant1

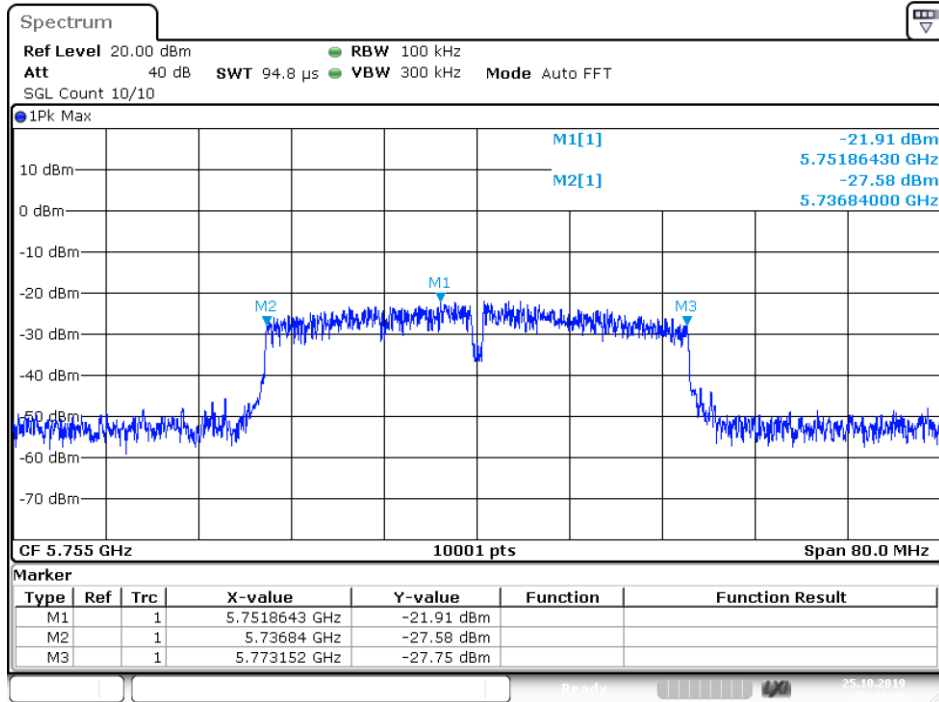
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-6 dB BW NVNT 802.11ac20 5825MHz Ant1

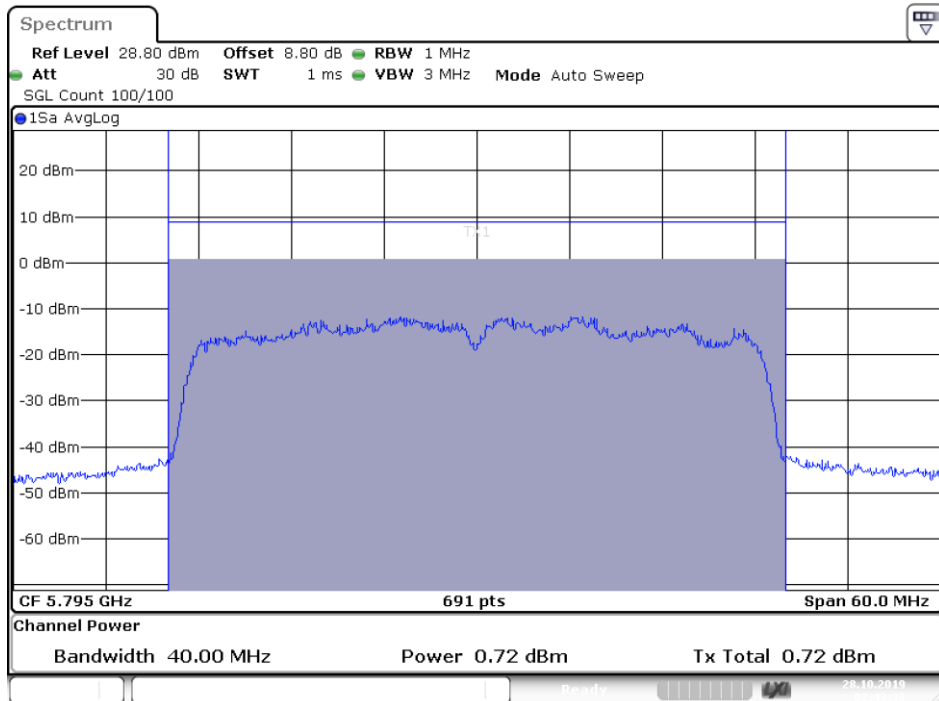
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OBW NVNT 802.11ac40 5755MHz Ant1

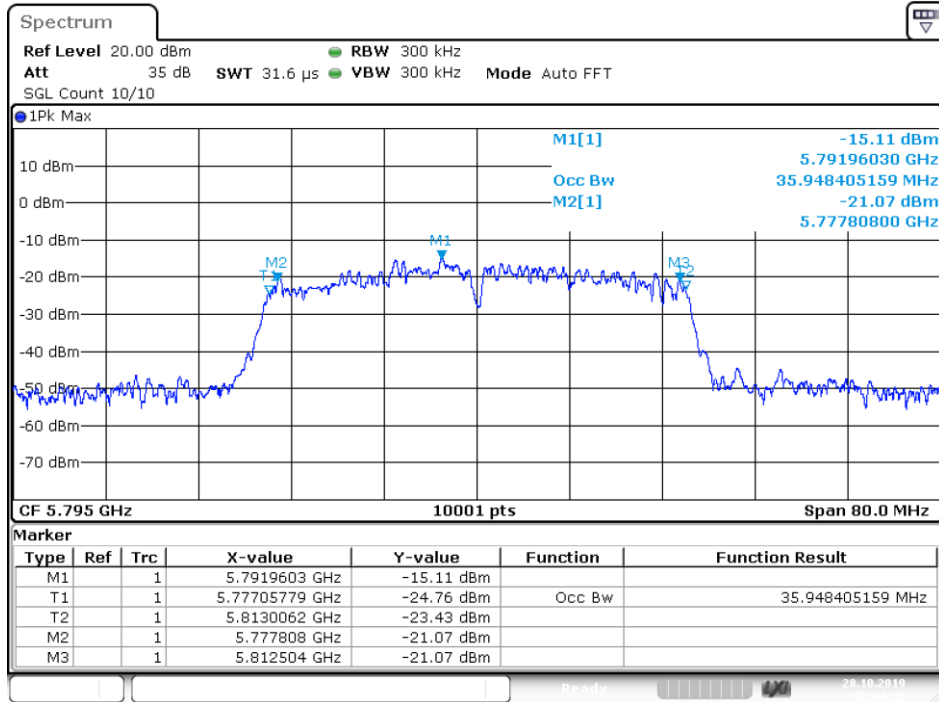
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-6 dB BW NVNT 802.11ac40 5755MHz Ant1

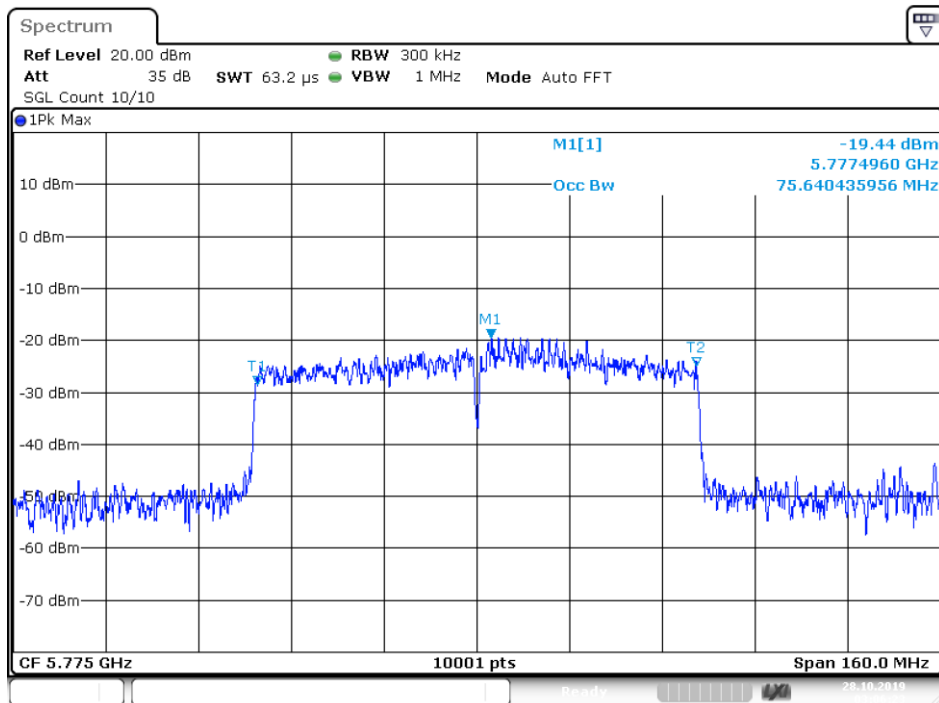
Date: 25.OCT.2019 12:43:38

OBW NVNT 802.11ac40 5795MHz Ant1

Date: 28.OCT.2019 02:43:38

-6 dB BW NVNT 802.11ac40 5795MHz Ant1

Date: 28.OCT.2019 02:44:10

OBW NVNT 802.11ac80 5775MHz Ant1

Date: 28.OCT.2019 03:06:22