FCC PART 15.407

TEST REPORT

For

Mediafly (HongKong) Co.,Limited

09 and 27/F,Ho King Commercial Centre,2-16 Fa Yuen Street,Mong Kok

FCC ID:2AZY4-T2000

Report Type:	**Product Type:**
Original Report	Tablet PC

Report Number: SZ4210419-12287E-00C

Report Date: 2021-05-20

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Tablet PC
Trade	HAOVM
Tested Model	T2000
Frequency Range	5G Wi-Fi: 5150-5250 MHz; 5725-5850 MHz
Maximum Average Conducted Output Power	5G Wi-Fi: 5150-5250 MHz: 12.46dBm (802.11a), 12.46dBm(802.11n20), 10.89dBm(802.11n40) 12.63dBm (802.11ac20), 11.10dBm (802.11ac40), 10.36dBm (802.11ac80) 5725-5850 MHz: 12.54dBm (802.11a), 12.41dBm(802.11n20),10.84dBm(802.11n40) 12.65dBm (802.11ac20), 11.03dBm (802.11ac40), 9.99dBm (802.11ac80)
Modulation Technique	OFDM
Antenna Specification	FPC Antenna: 0.2dBi(provided by the applicant)
Voltage Range	DC 5V from adapter or DC 3.7V by adapter
Date of Test	2021-04-21 to 2021- 04-28
Sample serial number	SZ4210419-12287E-RF-S1(Assigned by ATC)
Received date	2021-04-19
Sample/EUT Status	Good condition
Adapter information	Model: YMK-12W050200 INPUT: 100-240V, 50/60Hz, 0.3A OUTPUT: 5V, 2000mA

Objective

This type approval report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd.. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		±5%
RF output power, conducted		±0.73dB
Unwanted Emission, conducted		±1.6dB
RF Frequency		$\pm 0.082*10^{-7}$
Emissions, Radiated	30MHz - 1GHz	±4.28dB
	1GHz- 18GHz	±4.98dB
	18GHz- 26.5GHz	±5.06dB
	26.5GHz- 40GHz	±4.72dB
Temperature		±1℃
Humidity		±6%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A-2.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

The device only supports 5GWi-Fi 802.11a/n20/n40/ac20/ac40/ac80 modes, which was declared by manufacturer.

For 5150-5250MHz Band, 7 hannels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For 802.11a, 802.11n20, 802.11ac20 channel 36, 40, 48 were tested;
For 802.11n40/ac40 channel 38, 46 were tested.
For 802.11ac80 channel 42 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a, 802.11n20, 802.11ac20 channel 149, 157, 165 were tested;
For 802.11n40/ac40, channel 151, 159 were tested.
For 802.11ac80, channel 155 was tested.

EUT Exercise Software

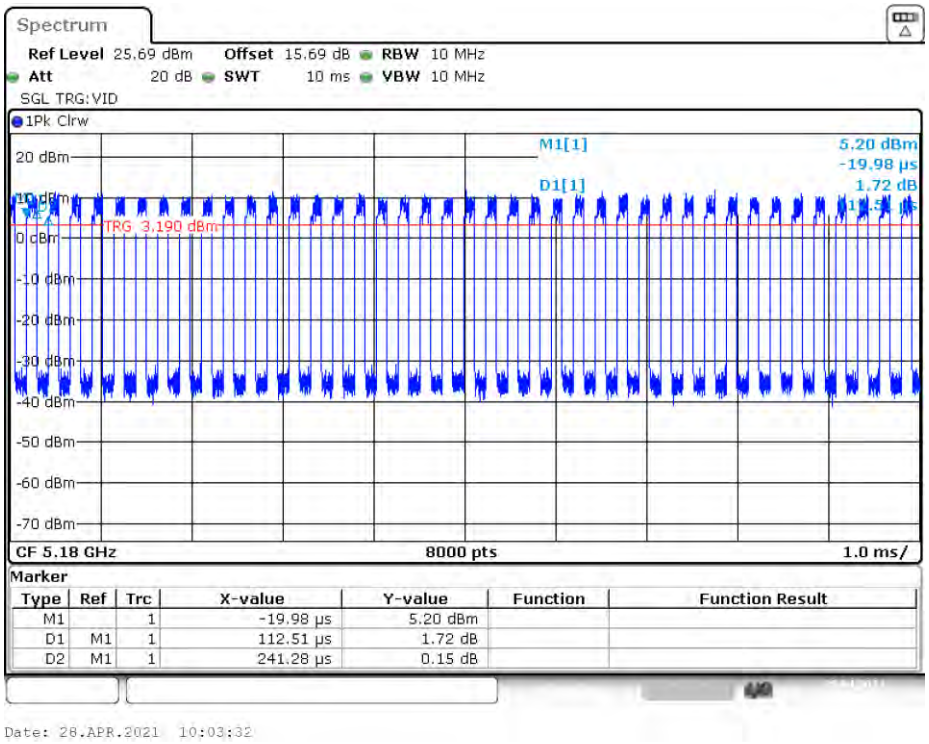
Test in the engineer mode during testing and power level as below:

Mode	Data Rate (Mbps)	Power Level*
802.11 a	6	12
802.11 n20/n40/ac20/ac40/ac80	MCS0	12

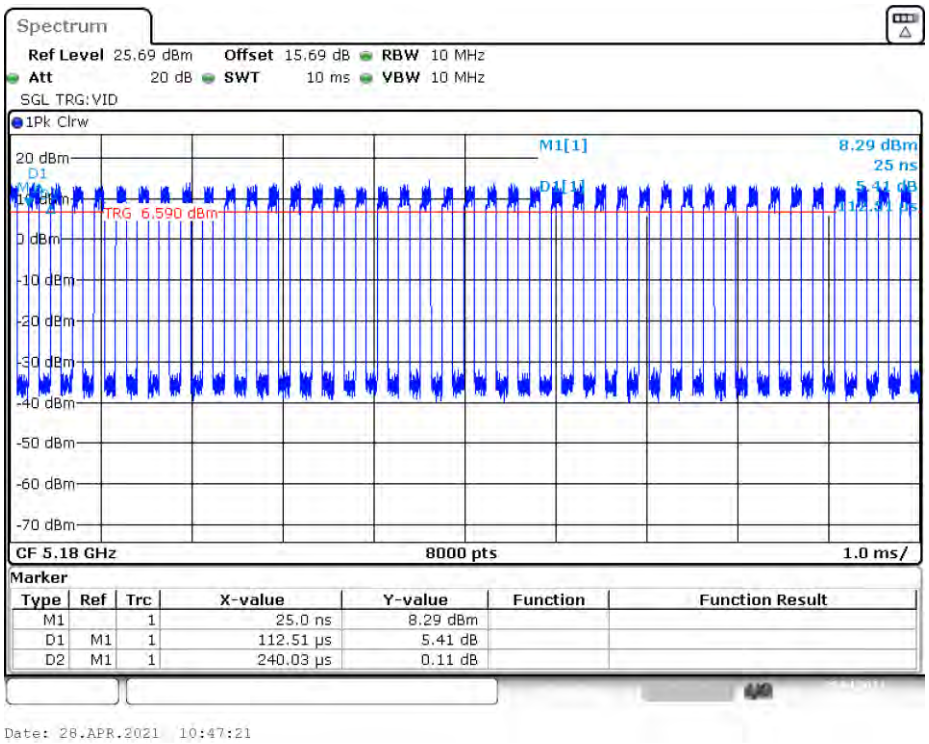
Duty cycle

Mode	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	10*log(1/duty cycle) (dB)
802.11a	0.11	0.24	45.83	-3.39
802.11n20	0.11	0.24	45.83	-3.39
802.11n40	0.07	0.20	35.00	-4.56
802.11ac20	0.12	0.25	48.00	-3.19
802.11ac40	0.08	0.21	38.10	-4.19
802.11ac80	0.06	0.19	31.58	-5.01

802.11a mode

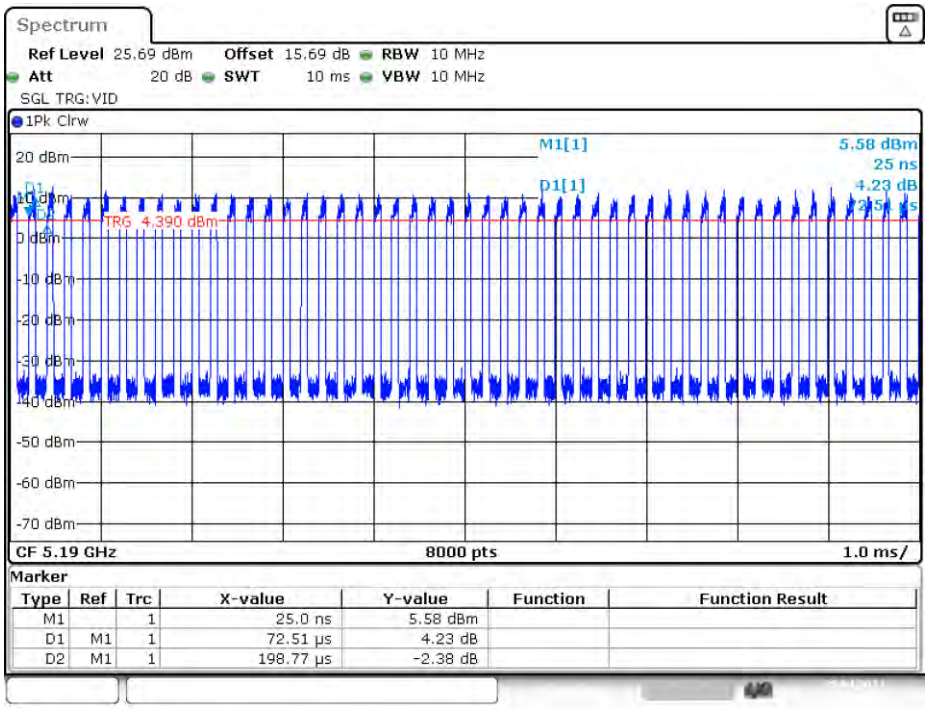


802.11n20 mode



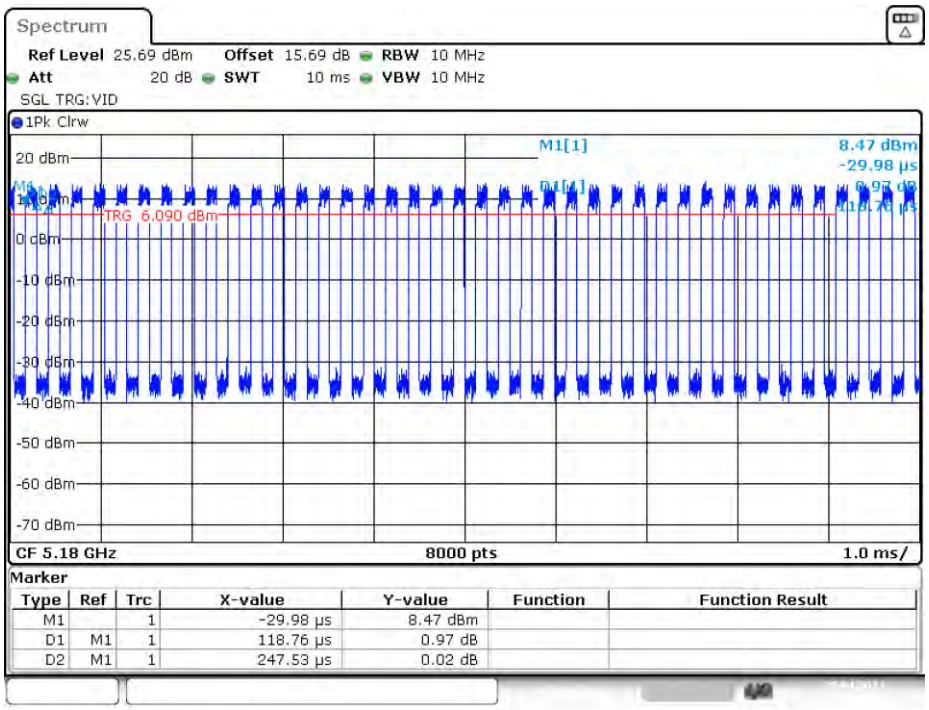
Date: 28.APR.2021 10:47:21

802.11n40 mode



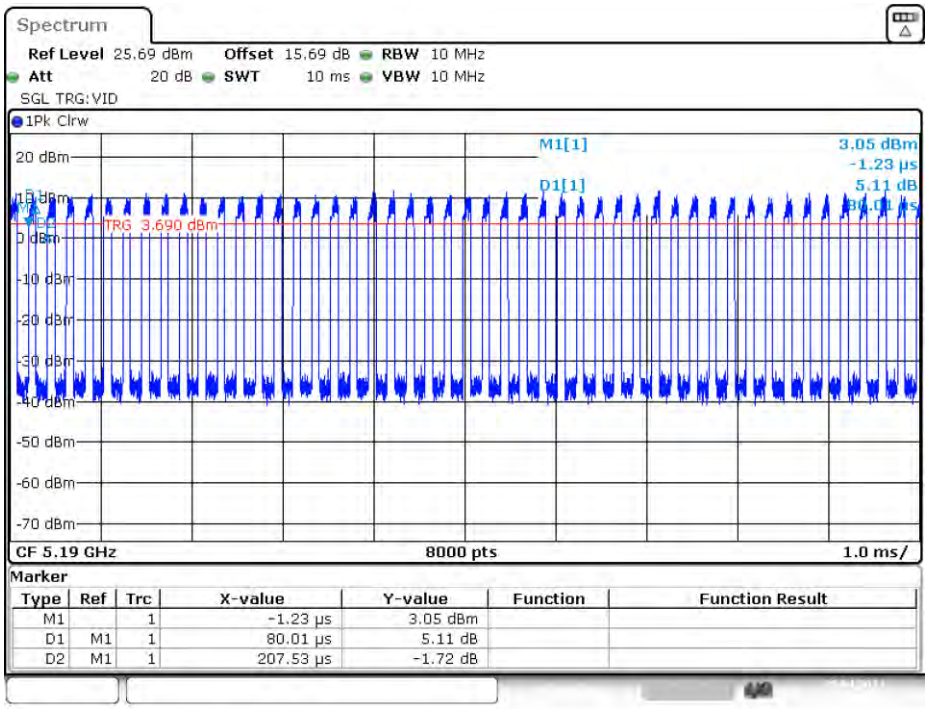
Date: 28.APR.2021 11:33:25

802.11ac20 Mode



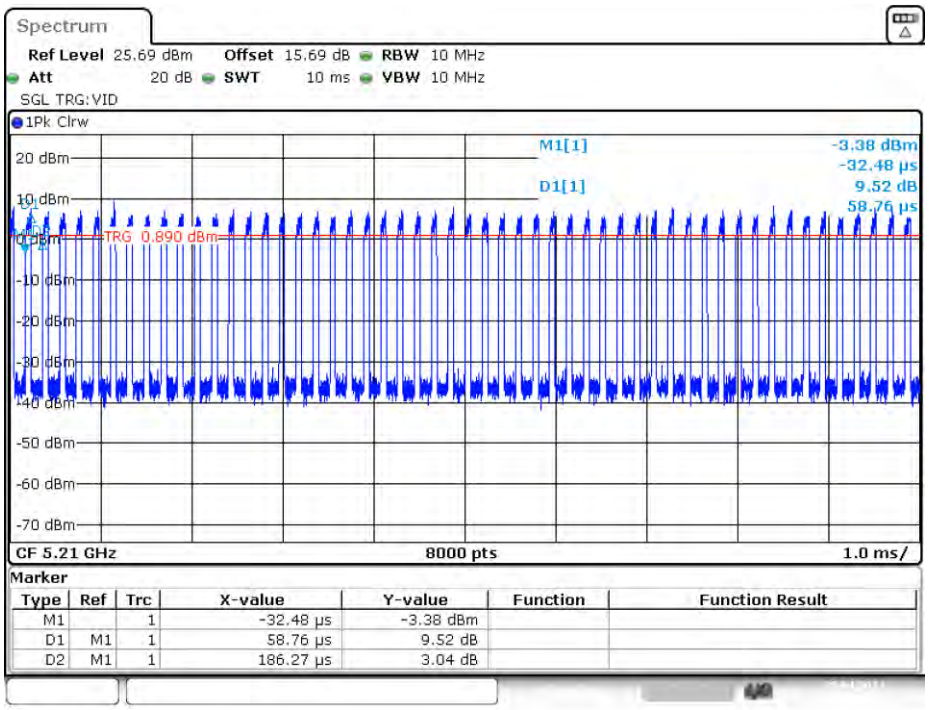
Date: 28.APR.2021 13:42:44

802.11ac40 Mode



Date: 28.APR.2021 14:29:16

802.11ac80 Mode



Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

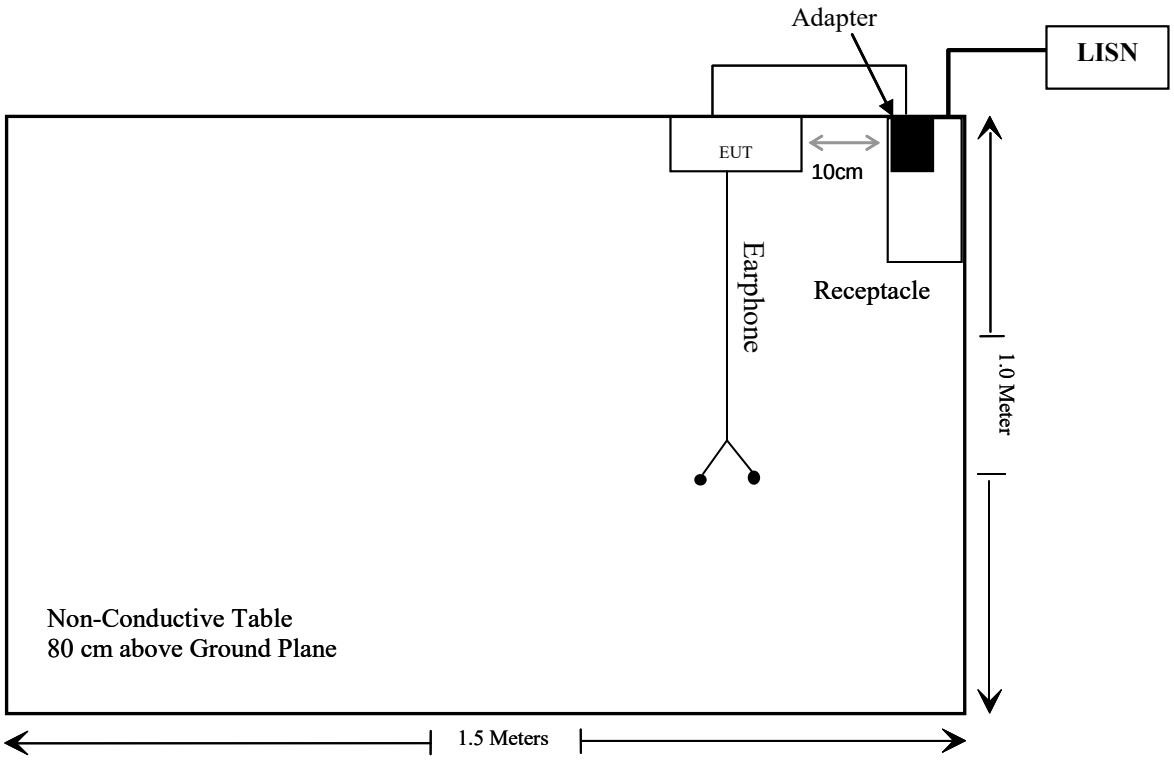
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From/Port	To
Unshielded Detachable USB Cable	0.8	Adapter	EUT

Block Diagram of Test Setup

For conducted emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 , §2.1093	RF Exposure (SAR)	Compliance*
§15.203	Antenna Requirement	Compliance
§15.407(b)(8) & §15.207(a)	Conducted Emissions	Compliance
§15.205 & §15.209 & §15.407(b) (1), (4), (7), (8), (9), (10)	Undesirable Emission& Restricted Bands	Compliance
§15.407(a) (12), (e)	Bandwidth	Compliance
§15.407(a) (1), (3)	Conducted Transmitter Output Power	Compliance
§15.407 (a) (1), (3)	Power Spectral Density	Compliance

Note: * Please refer to SAR report number: SZ4210419-12287E-SAB.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted emission test					
Rohde& Schwarz	Test Receiver	ESPI3	100396	2020/12/24	2021/12/23
R & S	L.I.S.N.	ENV216	101314	2020/12/25	2021/12/24
Anritsu Corp	50ΩCoaxial Switch	MP59B	6200506474	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-2m	No.2	2020/12/25	2021/12/24
Radiated emission test					
Rohde& Schwarz	Test Receiver	ESR	101817	2020/12/24	2021/12/23
Rohde&Schwarz	Spectrum Analyzer	FSV40	101495	2020/12/24	2021/12/23
SONOMA INSTRUMENT	Amplifier	310 N	186131	2020/12/25	2021/12/24
A.H. Systems, inc.	Preamplifier	PAM-0118P	531	2020/07/08	2021/07/07
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2020/11/28	2021/11/27
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2020/12/25	2021/12/24
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2020/01/05	2023/01/04
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Unknown	RF Coaxial Cable	N-5m	No.3	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-5m	No.4	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.5	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.6	2020/12/25	2021/12/24
RF conducted test					
Rohde&Schwarz	Spectrum Analyzer	FSV40	101495	2020/12/24	2021/12/23
Rohde & Schwarz	Open Switch and Control Unit	OSP120 +OSP -B157	101244 + 100866	2020/12/24	2021/12/23

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: SZ4210419-12287E-SAB.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.
b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached and the antenna gain is 0.2dBi, fulfill the requirement of this section. Please refer to the EUT photos.

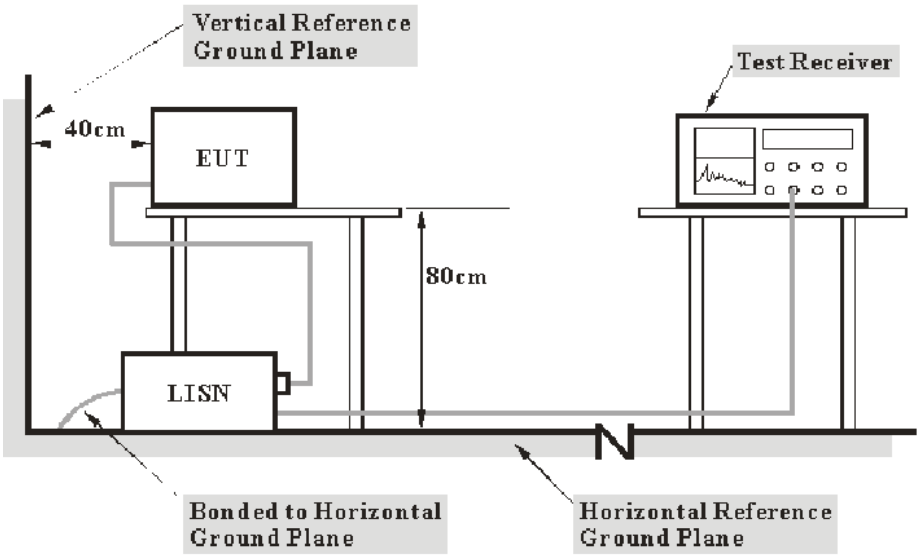
Result: Compliance.

FCC §15.407 (B) (8) §15.207 (A) – CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207, §15.407(b) (8)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Data

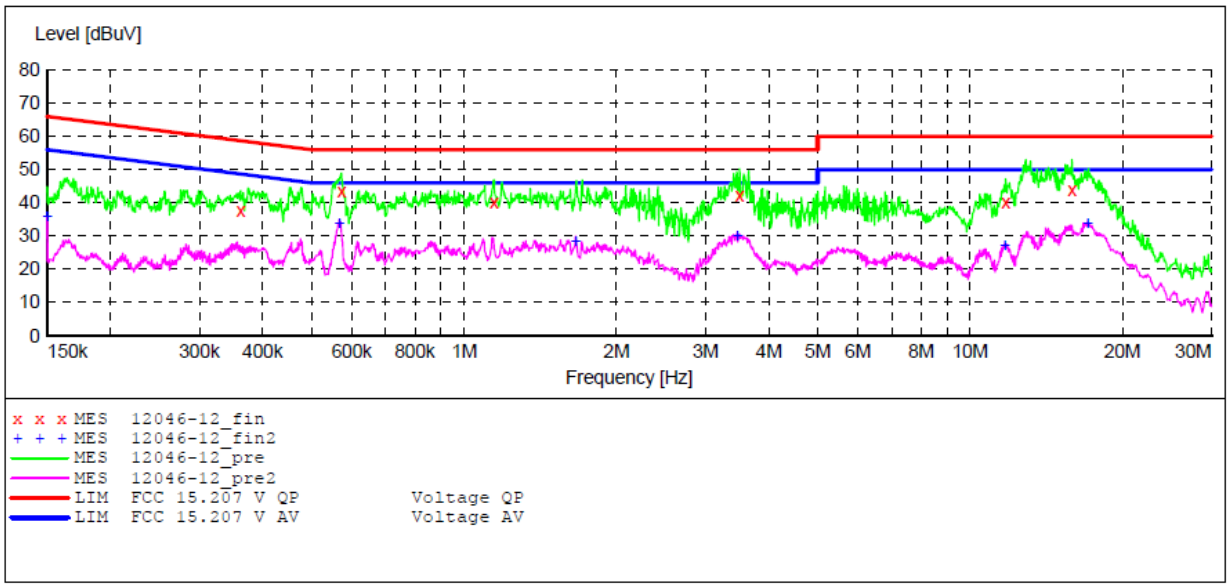
Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Charley Lin on 2021-04-21

EUT operation mode: Transmitting (Worst case as below)

AC 120V/60 Hz, Line



MEASUREMENT RESULT: "12046-12_fin"

2021-4-27 11:03

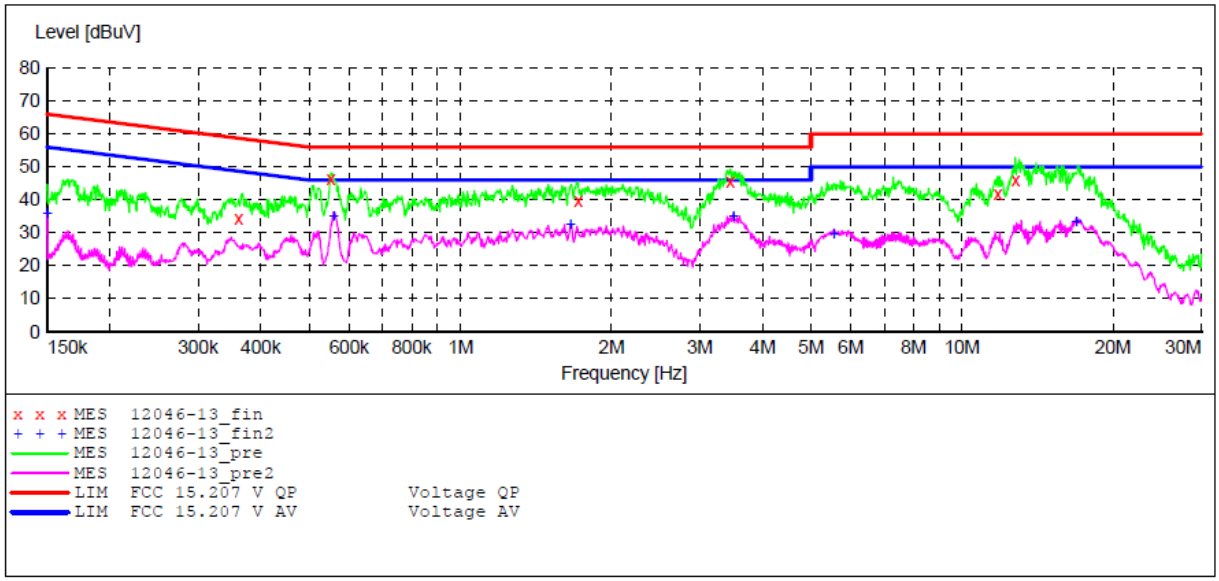
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.361881	37.70	11.9	59	21.3	QP	L1	GND
0.572280	43.40	12.5	56	12.6	QP	L1	GND
1.146634	40.10	12.4	56	15.9	QP	L1	GND
3.504877	42.10	12.3	56	13.9	QP	L1	GND
11.755734	40.30	12.1	60	19.7	QP	L1	GND
15.909040	44.00	12.1	60	16.0	QP	L1	GND

MEASUREMENT RESULT: "12046-12_fin2"

2021-4-27 11:03

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	36.10	10.3	56	19.9	AV	L1	GND
0.567160	33.90	12.5	46	12.1	AV	L1	GND
1.662419	28.40	12.3	46	17.6	AV	L1	GND
3.463132	30.10	12.3	46	15.9	AV	L1	GND
11.720572	27.10	12.1	50	22.9	AV	L1	GND
17.094892	33.90	12.1	50	16.1	AV	L1	GND

AC 120V/60 Hz, Neutral



MEASUREMENT RESULT: "12046-13_fin"

2021-4-27 11:05

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.360798	34.20	11.9	59	24.8	QP	N	GND
0.552074	46.30	12.5	56	9.7	QP	N	GND
1.718109	39.70	12.3	56	16.3	QP	N	GND
3.452774	45.40	12.3	56	10.6	QP	N	GND
11.791001	41.90	12.1	60	18.1	QP	N	GND
12.784268	46.00	12.1	60	14.0	QP	N	GND

MEASUREMENT RESULT: "12046-13_fin2"

2021-4-27 11:05

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	36.00	10.3	56	20.0	AV	N	GND
0.558729	35.30	12.5	46	10.7	AV	N	GND
1.657447	32.60	12.4	46	13.4	AV	N	GND
3.504877	35.20	12.3	46	10.8	AV	N	GND
5.559254	29.90	12.2	50	20.1	AV	N	GND
16.891283	33.60	12.1	50	16.4	AV	N	GND

§15.205 & §15.209 & §15.407(B) (1), (4), (7), (8) , (9), (10) – UNDESIRABLE EMISSION

Applicable Standard

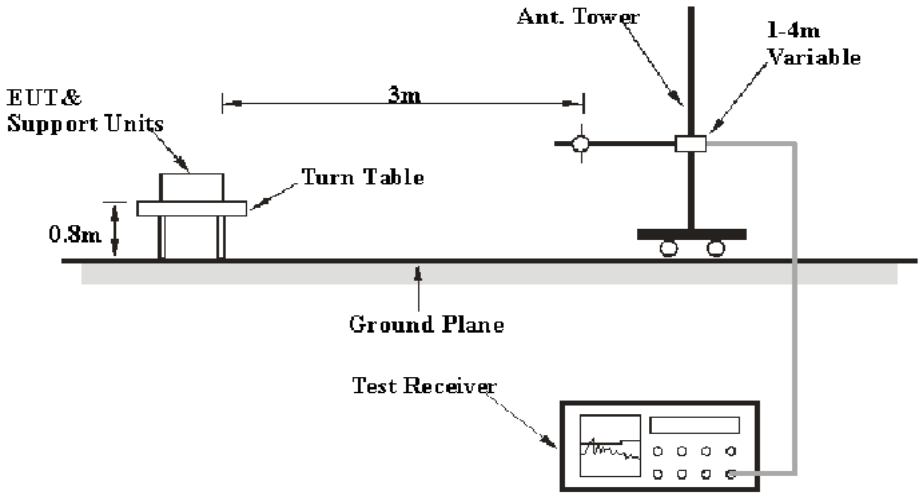
FCC §15.407 (b) (1), (4), (7), (8), (9), (10); §15.209; §15.205;

(b) Undesirable emission limits. Except as shown in paragraph (b) (7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
(4) For transmitters operating in the 5.725-5.85 GHz band:
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

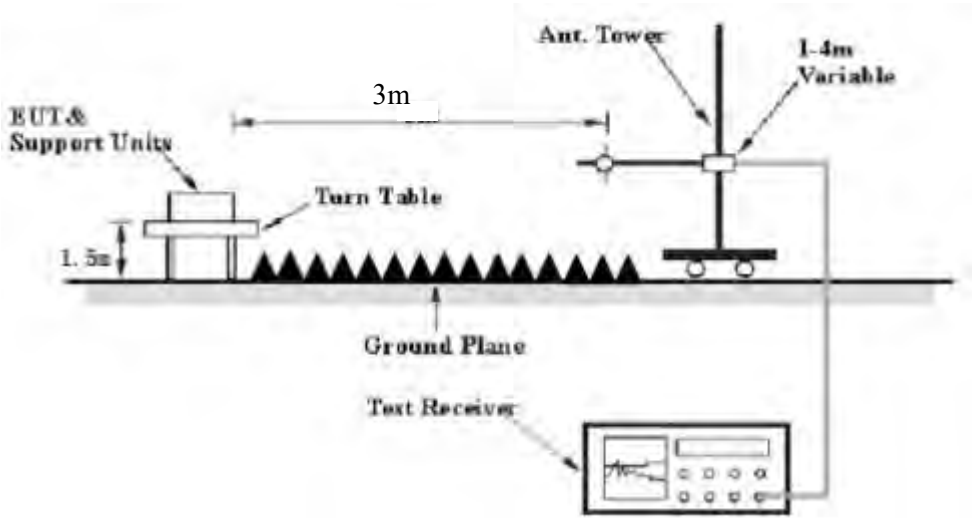
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

Below 1 GHz:



Above 1 GHz:



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1MHz	10 Hz Note 1	/	Average
	1MHz	＞1/T Note 2	/	Average

Note 1: when duty cycle is no less than 98%
Note 2: when duty cycle is less than 98%

Test Procedure

Radiated Spurious Emission

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified,extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20\log\left(\frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}}\right)$$

where

$E_{SpecLimit}$	is the field strength of the emission at the distance specified by the limit, in dBμV/m
E_{Meas}	is the field strength of the emission at the measurement distance, in dBμV/m
d_{Meas}	is the measurement distance, in m
$d_{SpecLimit}$	is the distance specified by the limit, in m

So the extrapolation factor of 1m is 20*lg(1/3)= -9.5 dB

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Factor = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Result-Limit
Result = Reading + Factor

Test Data

Environmental Conditions

Temperature:	22~29 ℃
Relative Humidity:	50~56 %
ATM Pressure:	101.0 kPa

The testing was performed by Charley Lin on 2021-4-21.

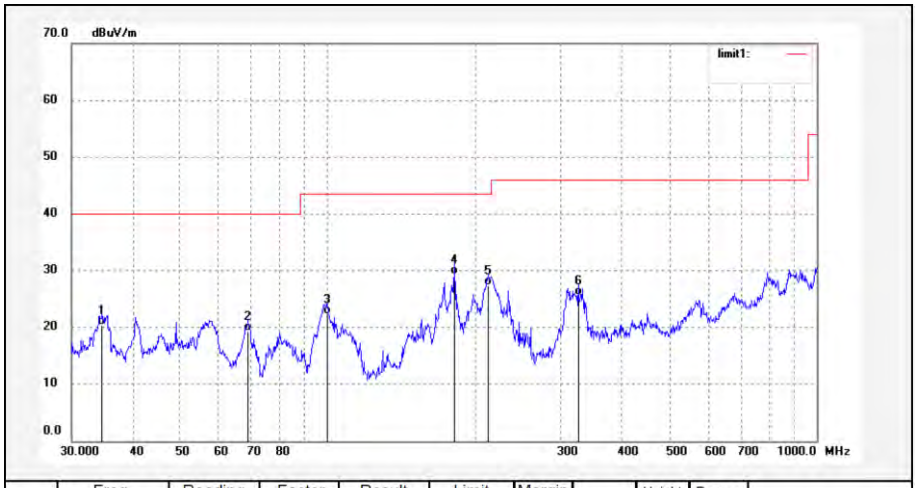
EUT operation mode: Transmitting

***18~40GHz**: The test values lower than the limits of 20dB or in the noise floor level, the test data were not recorded in the report.*

30 MHz~1 GHz:

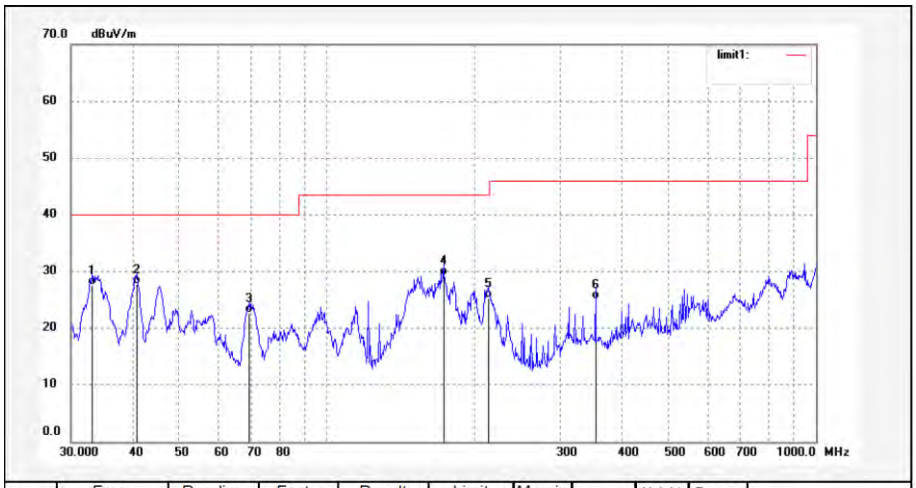
802.11a Middle Channel (Worst case)

Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.6385	37.31	-16.87	20.44	40.00	-19.56	QP			
2	68.6310	42.95	-23.58	19.37	40.00	-20.63	QP			
3	99.8777	43.45	-21.15	22.30	43.50	-21.20	QP			
4	181.9202	47.82	-18.49	29.33	43.50	-14.17	QP			
5	213.0151	47.12	-19.65	27.47	43.50	-16.03	QP			
6	325.5958	42.92	-17.29	25.63	46.00	-20.37	QP			

Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.2112	44.21	-16.57	27.64	40.00	-12.36	QP			
2	40.8446	46.08	-18.42	27.66	40.00	-12.34	QP			
3	69.3568	46.32	-23.68	22.64	40.00	-17.36	QP			
4	173.2051	49.86	-20.60	29.26	43.50	-14.24	QP			
5	213.7634	44.93	-19.69	25.24	43.50	-18.26	QP			
6	354.1831	41.37	-16.19	25.18	46.00	-20.82	QP			

1 ~ 18 GHz:

5150-5250 MHz:

Frequency (MHz)	Receiver		Turntable	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	PK/QP/Ave.	Degree	Height (m)	Polar (H / V)			Limit (dBμV/m)	Margin (dB)
802.11a									
5180 MHz									
4500.00	42.15	PK	67	1.6	H	1.89	44.04	74.00	29.96
4500.00	43.15	PK	153	1.8	V	1.89	45.04	74.00	28.96
5150.00	41.50	PK	64	2.1	H	3.37	44.87	74.00	29.13
5150.00	43.51	PK	325	2.5	V	3.37	46.88	74.00	27.12
10360.00	40.39	PK	154	1.7	H	11.41	51.80	68.20	16.40
10360.00	40.36	PK	215	1.5	V	11.41	51.77	68.20	16.43
5200 MHz									
10400.00	40.92	PK	136	1.6	H	11.46	52.38	68.20	15.82
10400.00	41.36	PK	154	1.5	V	11.46	52.82	68.20	15.38
5240 MHz									
5350.00	43.11	PK	138	1.9	H	3.43	46.54	74.00	27.46
5350.00	43.21	PK	224	1.7	V	3.43	46.64	74.00	27.36
5460.00	44.22	PK	143	2.0	H	3.58	47.80	74.00	26.20
5460.00	42.92	PK	136	1.5	V	3.58	46.50	74.00	27.50
10480.00	44.22	PK	92	1.5	H	11.53	55.75	68.20	12.45
10480.00	42.92	PK	105	1.7	V	11.53	54.45	68.20	13.75
802.11N20									
5180 MHz									
4500.00	42.01	PK	154	1.5	H	1.89	43.90	74.00	30.10
4500.00	43.69	PK	22	1.7	V	1.89	45.58	74.00	28.42
5150.00	41.13	PK	51	2.0	H	3.37	44.50	74.00	29.50
5150.00	44.02	PK	347	1.5	V	3.37	47.39	74.00	26.61
10360.00	39.68	PK	169	1.6	H	11.41	51.09	68.20	17.11
10360.00	39.84	PK	184	2.0	V	11.41	51.25	68.20	16.95
5200 MHz									
10400.00	39.84	PK	146	1.8	H	11.46	51.30	68.20	16.90
10400.00	40.68	PK	357	2.1	V	11.46	52.14	68.20	16.06
5240 MHz									
5350.00	43.06	PK	184	1.8	H	3.43	46.49	74.00	27.51
5350.00	43.85	PK	211	1.8	V	3.43	47.28	74.00	26.72
5460.00	44.10	PK	14	1.0	H	3.58	47.68	74.00	26.32
5460.00	40.69	PK	215	2.0	V	3.58	44.27	74.00	29.73
10480.00	40.68	PK	159	1.5	H	11.53	52.21	68.20	15.99
10480.00	39.58	PK	130	1.3	V	11.53	51.11	68.20	17.09
802.11N40									
5190 MHz									
4500.00	43.16	PK	34	2.1	H	1.89	45.05	74.00	28.95
4500.00	43.62	PK	153	1.7	V	1.89	45.51	74.00	28.49
5150.00	44.18	PK	61	1.6	H	3.37	47.55	74.00	26.45
5150.00	43.62	PK	54	1.7	V	3.37	46.99	74.00	27.01
10380.00	39.58	PK	70	1.5	H	11.43	51.01	68.20	17.19

10380.00	39.44	PK	154	1.8	V	11.43	50.87	68.20	17.33
5230 MHz									
5350.00	44.69	PK	259	1.6	H	3.43	48.12	74.00	25.88
5350.00	44.51	PK	315	1.8	V	3.43	47.94	74.00	26.06
5460.00	43.25	PK	360	1.4	H	3.58	46.83	74.00	27.17
5460.00	43.68	PK	284	2.1	V	3.58	47.26	74.00	26.74
10460.00	39.28	PK	65	1.4	H	11.50	50.78	68.20	17.42
10460.00	39.35	PK	13	1.3	V	11.50	50.85	68.20	17.35
802.11AC80									
5210 MHz									
4500.00	43.82	PK	153	1.2	H	1.89	45.71	74.00	28.29
4500.00	43.92	PK	167	1.0	V	1.89	45.81	74.00	28.19
5150.00	44.15	PK	200	1.1	H	3.37	47.52	74.00	26.48
5150.00	44.92	PK	256	2.0	V	3.37	48.29	74.00	25.71
5350.00	37.54	PK	315	1.8	H	3.43	40.97	74.00	33.03
5350.00	37.41	PK	25	1.6	V	3.43	40.84	74.00	33.16
5460.00	37.54	PK	43	1.2	H	3.58	41.12	74.00	32.88
5460.00	37.41	PK	86	1.1	V	3.58	40.99	74.00	33.01
10420.00	38.15	PK	221	1.5	H	14.47	52.62	74.00	21.38
10420.00	38.65	PK	138	1.6	V	14.47	53.12	74.00	20.88

5725-5850 MHz:

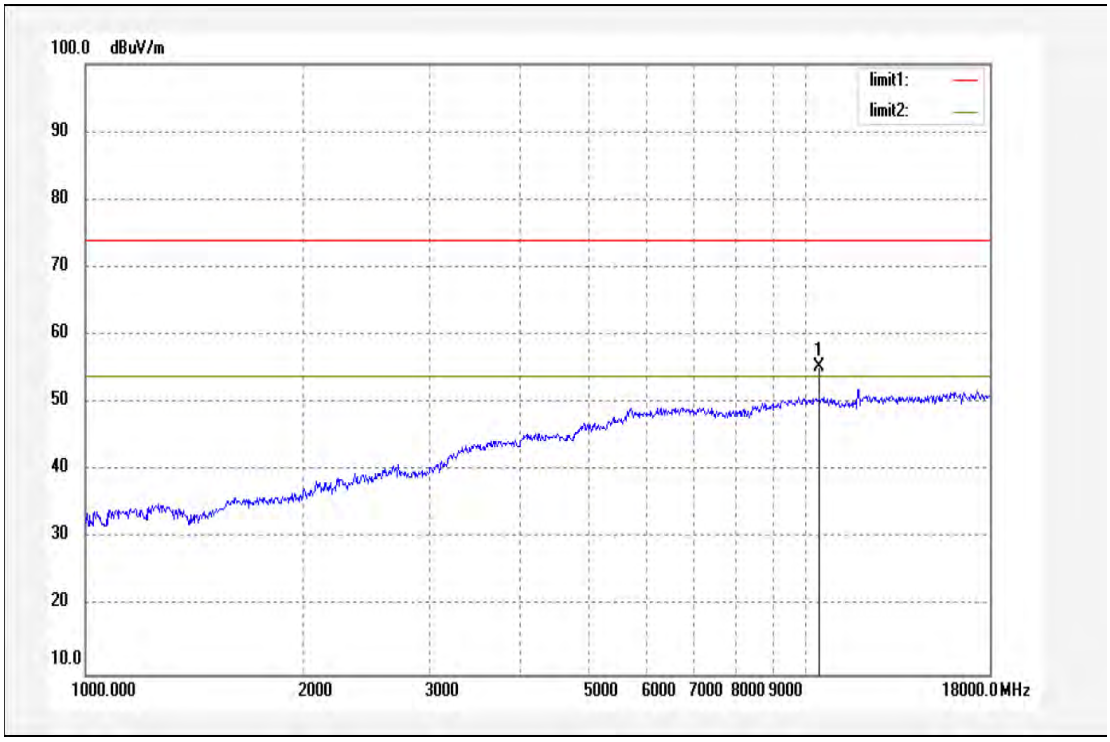
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
802.11a									
5745 MHz									
5645.60	43.53	PK	325	1.6	H	3.73	47.26	68.20	20.94
5699.53	42.67	PK	154	1.5	V	3.89	46.56	104.85	58.29
5713.65	44.11	PK	201	1.4	H	3.97	48.08	109.02	60.94
5724.25	43.42	PK	143	1.7	V	3.97	47.39	120.49	73.1
11490.00	38.41	PK	184	1.5	H	14.74	53.15	74.00	20.85
11490.00	39.18	PK	65	1.7	V	14.74	53.92	74.00	20.08
5785 MHz									
11570.00	36.95	PK	251	1.5	H	14.74	51.69	74.00	22.31
11570.00	37.21	PK	53	1.7	V	14.74	51.95	74.00	22.05
5825 MHz									
5853.51	43.92	PK	3	1.6	H	4.35	48.27	114.20	65.93
5862.13	44.15	PK	54	1.0	V	4.37	48.52	108.80	60.28
5876.62	44.36	PK	168	1.8	H	4.39	48.75	104.00	55.25
5926.76	43.94	PK	301	2.1	V	4.44	48.38	68.20	19.82
11650.00	36.87	PK	341	2.2	H	14.79	51.66	74.00	22.34
11650.00	37.13	PK	264	1.7	V	14.79	51.92	74.00	22.08
802.11 N20									
5745MHz									
5648.36	42.58	PK	175	1.4	H	3.75	46.33	68.20	21.87
5689.62	43.12	PK	168	1.5	V	3.86	46.98	97.52	50.54
5718.35	43.95	PK	251	1.6	H	3.94	47.89	110.34	62.45
5721.52	44.95	PK	48	1.5	V	3.95	48.90	114.27	65.37
11490.00	37.52	PK	54	1.5	H	14.74	52.26	74.00	21.74
11490.00	37.95	PK	36	1.6	V	14.74	52.69	74.00	21.31
5785MHz									
11570.00	37.25	PK	55	1.4	H	14.74	51.99	74.00	22.01
11570.00	37.11	PK	125	1.4	V	14.74	51.85	74.00	22.15
5825MHz									
5851.68	42.58	PK	55	1.5	H	4.33	46.91	118.37	71.46
5858.44	43.64	PK	144	1.6	V	4.35	47.99	109.84	61.85
5876.36	43.91	PK	358	1.1	H	4.40	48.31	104.19	55.88
5925.15	43.25	PK	320	1.4	V	4.41	47.66	68.20	20.54
11650.00	36.11	PK	154	1.9	H	14.79	50.90	74.00	23.1
11650.00	36.81	PK	53.00	1.60	V	14.79	51.60	74.00	22.4

802.11 N40									
5755MHz									
5649.15	43.25	PK	268	1.6	H	3.75	47.00	68.20	21.2
5691.58	43.85	PK	13	1.7	V	3.93	47.78	98.97	51.19
5718.64	43.19	PK	284	1.8	H	3.96	47.15	110.42	63.27
5724.54	43.57	PK	35	1.5	V	3.97	47.54	121.15	73.61
11510.00	37.35	PK	98	1.3	H	14.74	52.09	74.00	21.91
11510.00	36.92	PK	184	2.1	V	14.74	51.66	74.00	22.34
5795MHz									
5851.36	43.82	PK	254	1.6	H	4.33	48.15	119.10	70.95
5857.68	43.92	PK	135	1.8	V	4.34	48.26	110.05	61.79
5876.85	44.15	PK	158	1.6	H	4.37	48.52	103.83	55.31
5926.65	44.92	PK	215	1.5	V	4.39	49.31	68.20	18.89
11590.00	37.54	PK	154	1.7	H	14.74	52.28	74.00	21.72
11590.00	37.41	PK	95	2.0	V	14.74	52.15	74.00	21.85
802.11 AC80									
5775MHz									
5649.84	46.99	PK	137	1.5	H	3.75	50.74	68.20	17.46
5698.21	43.92	PK	237	1.6	V	3.93	47.85	103.88	56.03
5712.39	48.66	PK	120	1.2	H	3.96	52.62	108.67	56.05
5723.65	44.92	PK	105	1.0	V	3.97	48.89	119.12	70.23
5852.22	46.68	PK	136	1.5	H	4.33	51.01	117.14	66.13
5857.21	37.41	PK	92	1.4	V	4.34	41.75	110.18	68.43
5876.68	46.41	PK	108	1.3	H	4.37	50.78	103.96	53.18
5930.18	37.41	PK	37	1.8	V	4.39	41.8	68.20	26.4
11550.00	36.85	PK	153	1.6	H	14.67	51.52	74.00	22.48
11550.00	37.25	PK	61	1.5	V	14.67	51.92	74.00	22.08

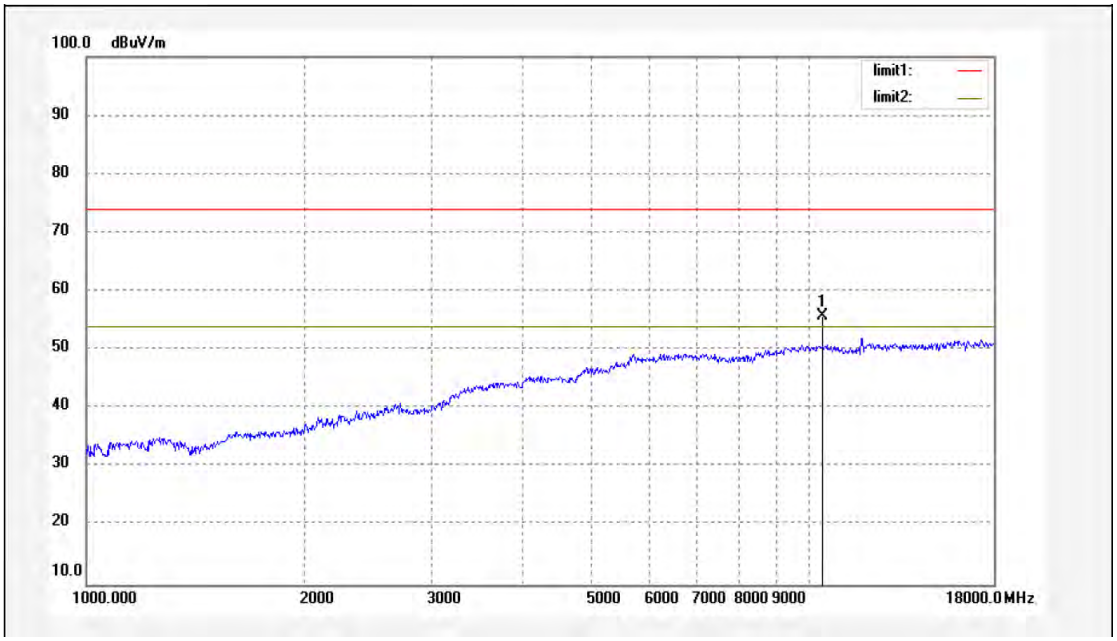
Note:
Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude
The other spurious emission which is in the noise floor level was not recorded.
Pretest 802.11a, 802.11n20, 802.11n40, 802.11ac20, 802.11ac40, 802.11ac80, worst case record in the report.

1-18 GHz:

Pre-scan for Peak
802.11a 5180MHz
Horizontal:

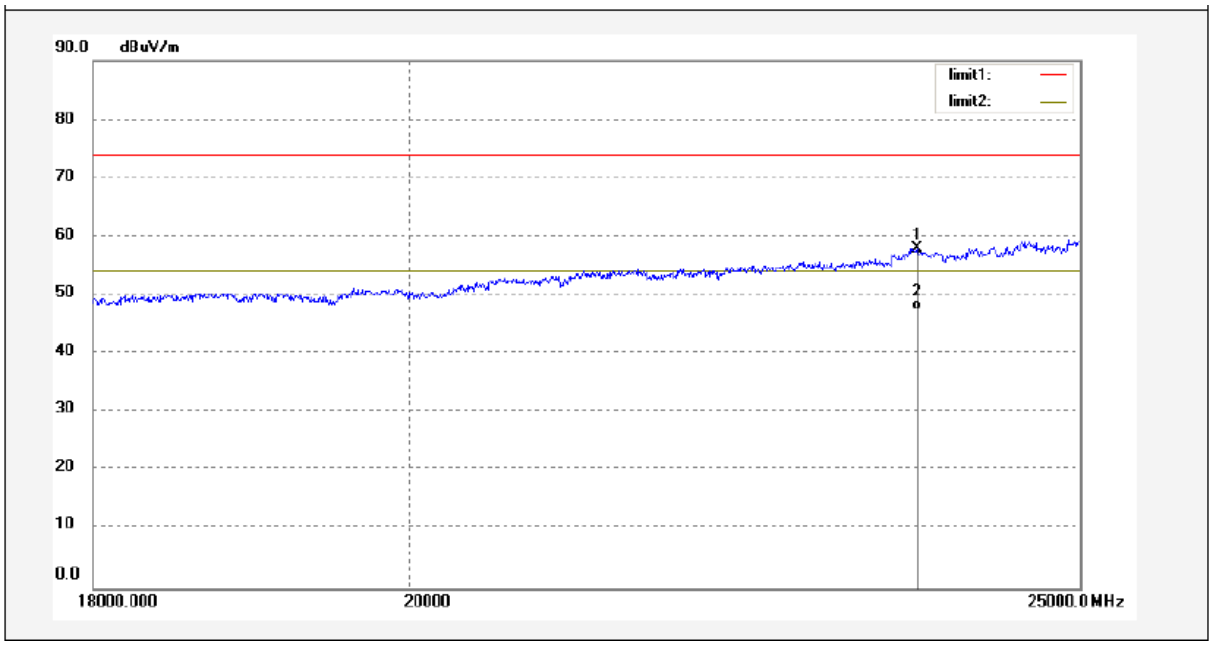


Vertical:



18-25 GHz:

Pre-scan for Peak
802.11a 5180MHz
Horizontal:



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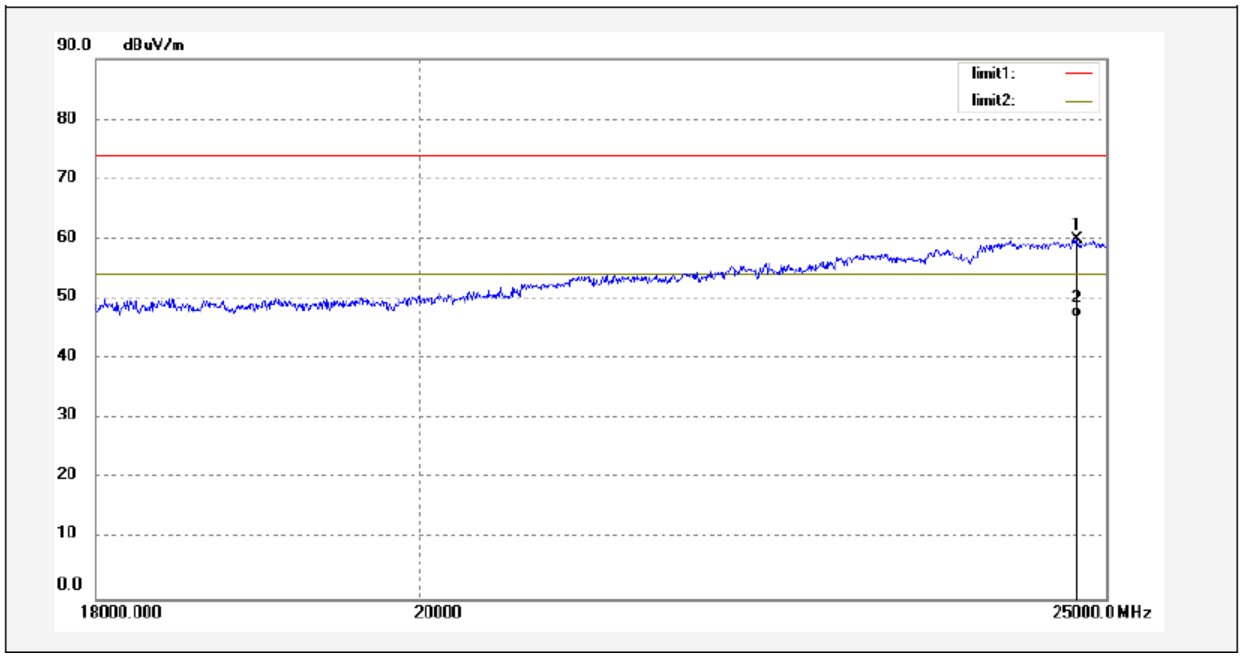
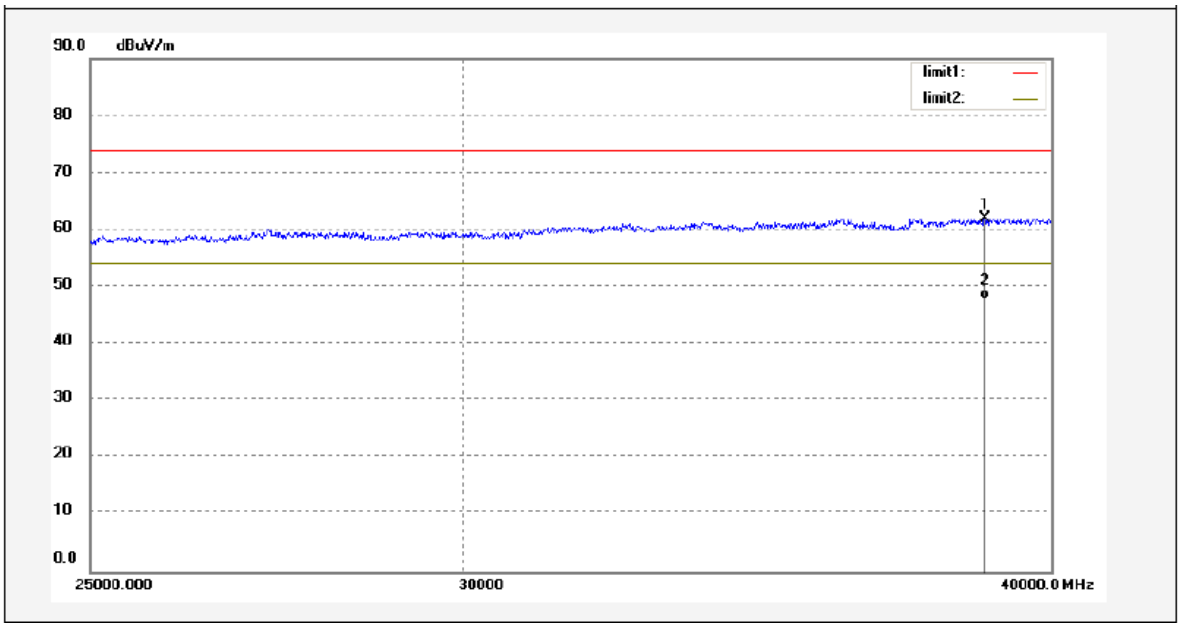


25-40 GHz:

Pre-scan for Peak
802.11a 5180MHz
Horizontal:



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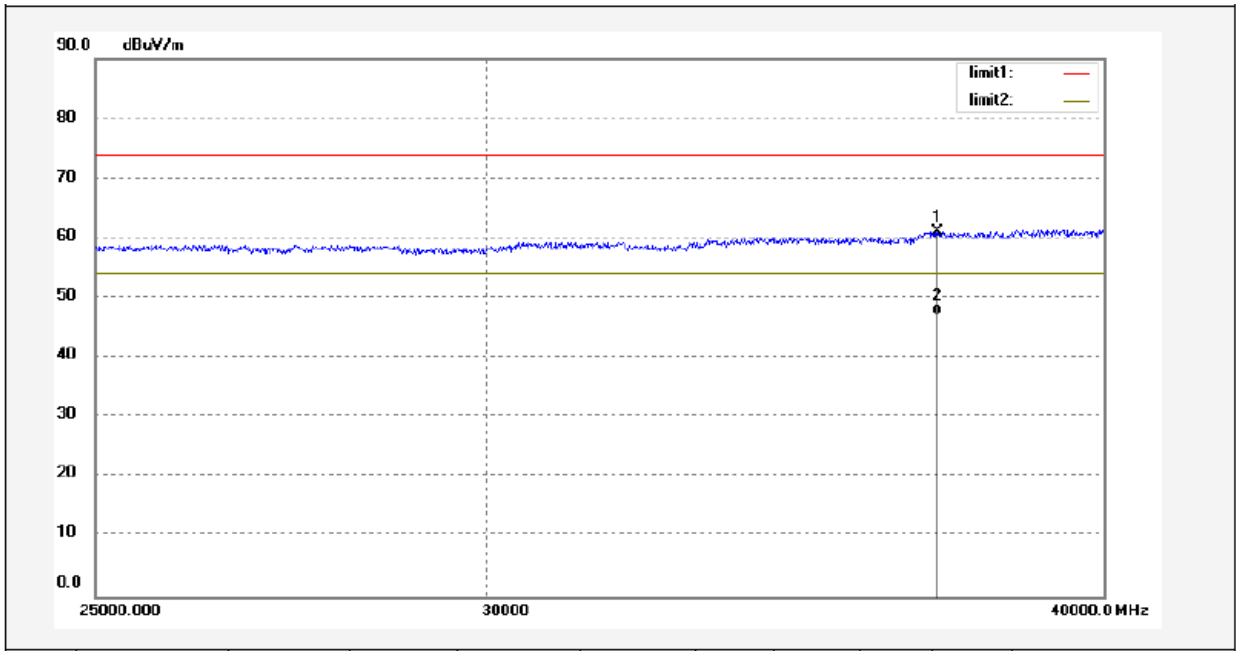


FCC §15.407(a)(e) – BANDWIDTH

Applicable Standard

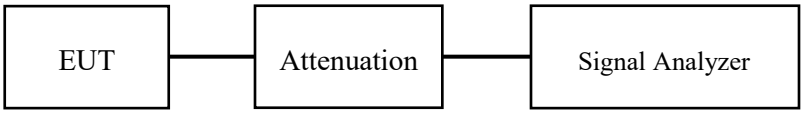
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

1. Emission Bandwidth (EBW)
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%.

2. **Minimum Emission Bandwidth for the band 5.725-5.85 GHz**
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:
a) Set RBW = 100 kHz.
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.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Charley Lin on 2021-04-28.

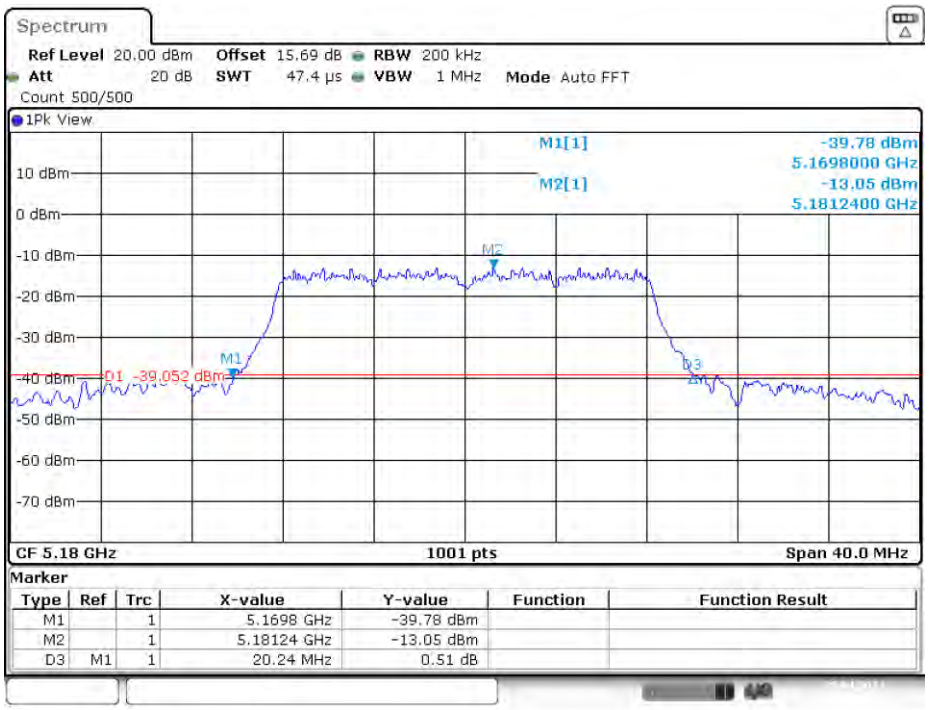
EUT operation mode: Transmitting

Test Result: Pass; please refer to the following tables and plots.

5150 MHz - 5250 MHz:

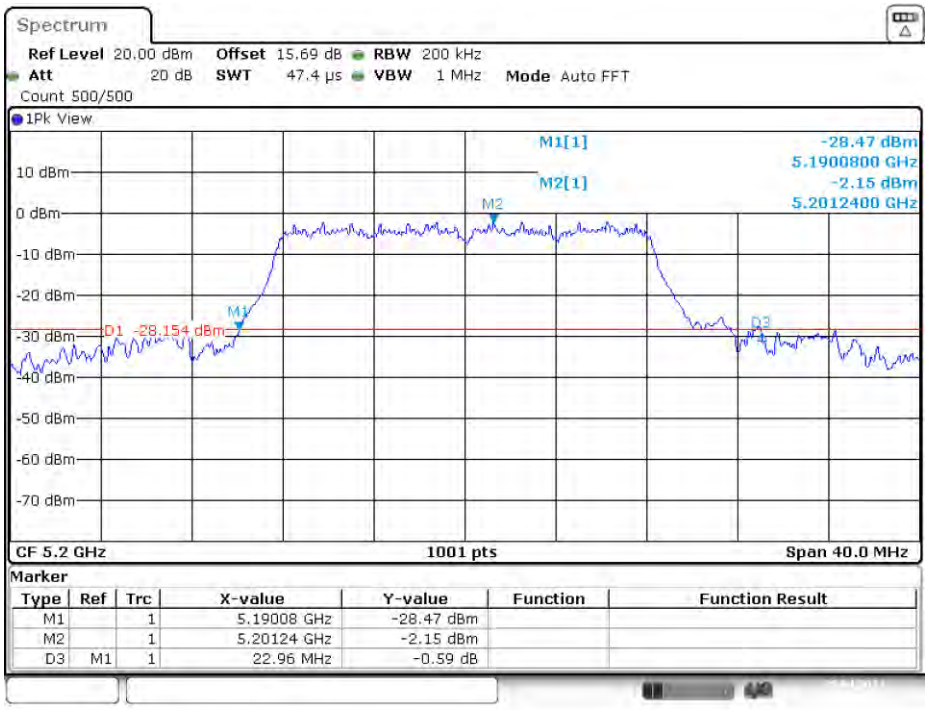
Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Remark
802.11a			No transmitted signal in the 99% bandwidth extends into the U-NII-2A band
5180	20.240	17.782	
5200	22.960	17.862	
5240	21.680	17.862	
802.11n20			
5180	22.880	18.342	
5200	23.520	18.422	
5240	20.480	18.382	
802.11n40			
5190	46.880	36.444	
5230	48.880	36.444	
802.11ac20			
5180	23.120	18.382	
5200	25.720	18.462	
5240	25.200	18.462	
802.11ac40			
5190	50.640	36.603	
5230	46.880	36.683	
802.11ac80			
5210	84.480	75.764	

802.11a mode, 26 dB Emissions, 5180 MHz



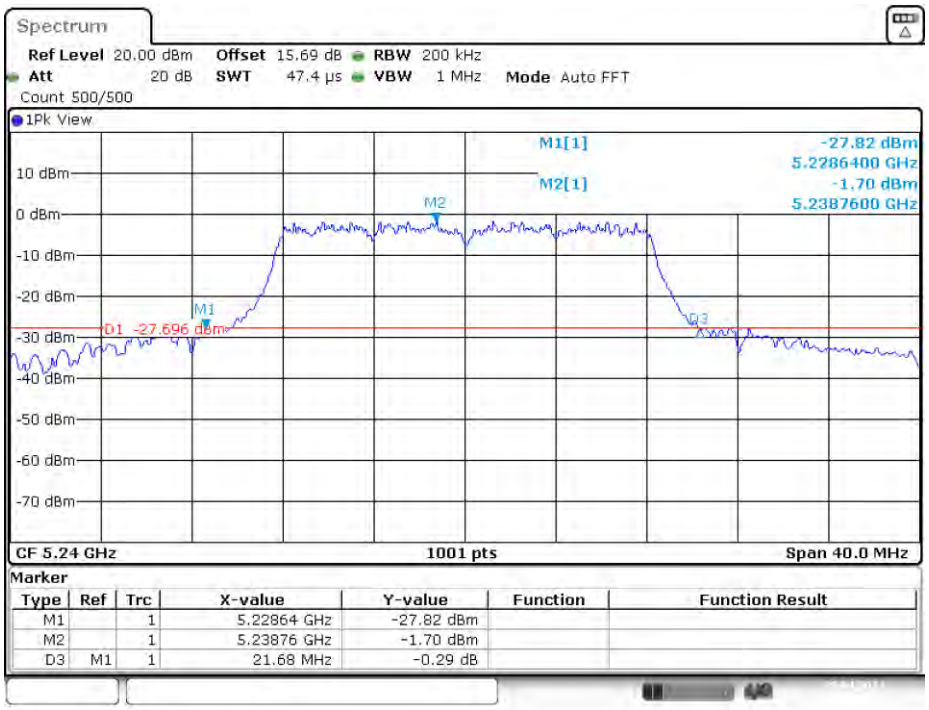
Date: 28.APR.2021 10:02:56

802.11a mode, 26 dB Emissions, 5200 MHz

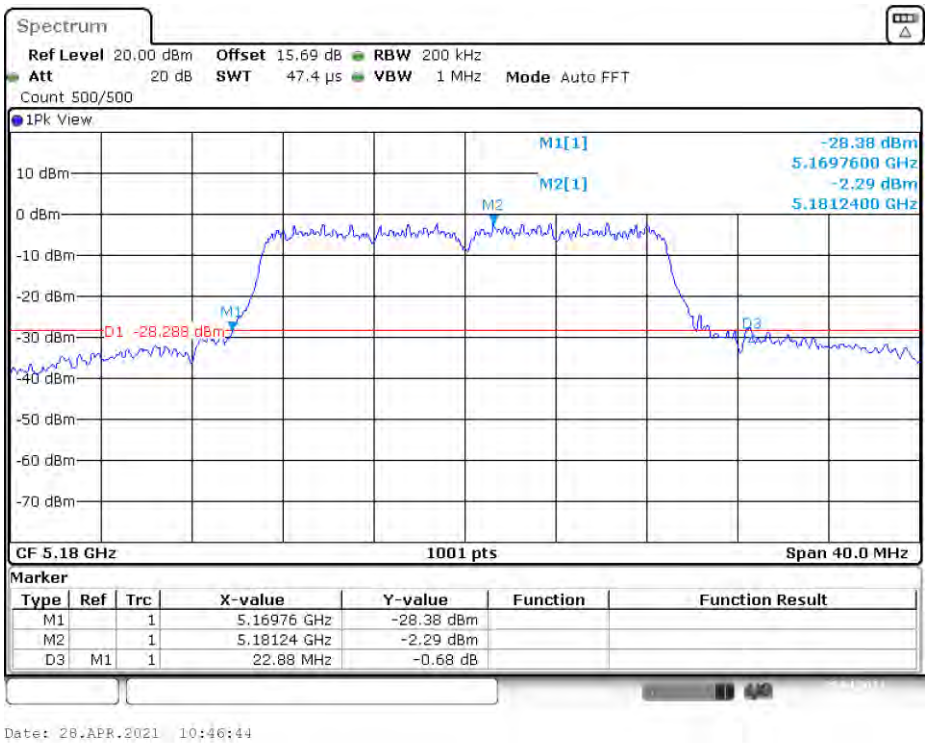


Date: 28.APR.2021 10:10:32

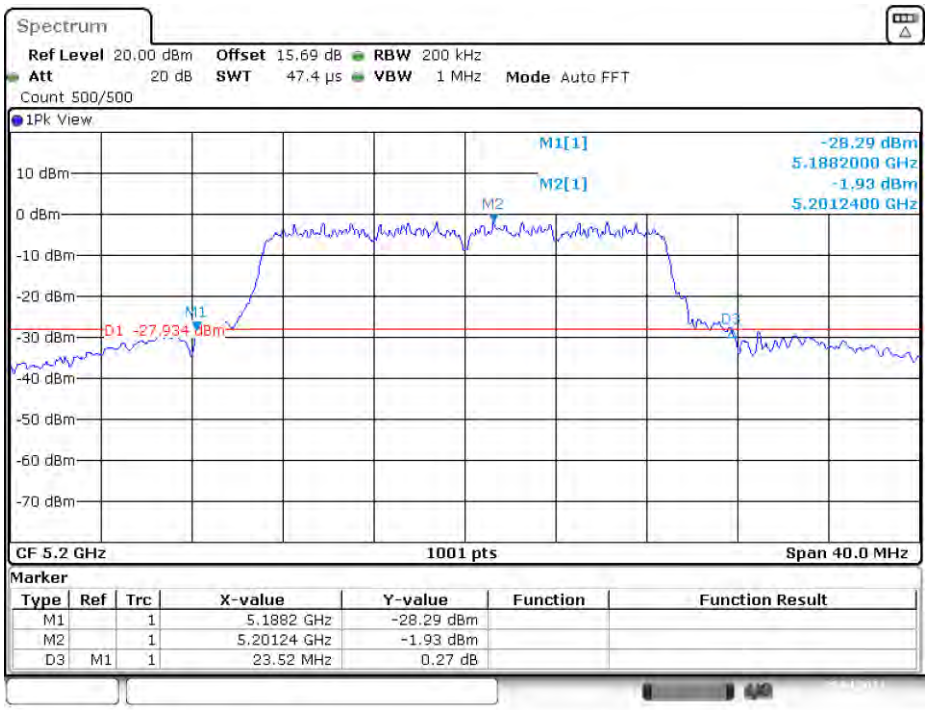
802.11a mode, 26 dB Emissions, 5240 MHz



802.11n20 mode, 26 dB Emissions, 5180 MHz



802.11n20 mode, 26 dB Emissions, 5200 MHz



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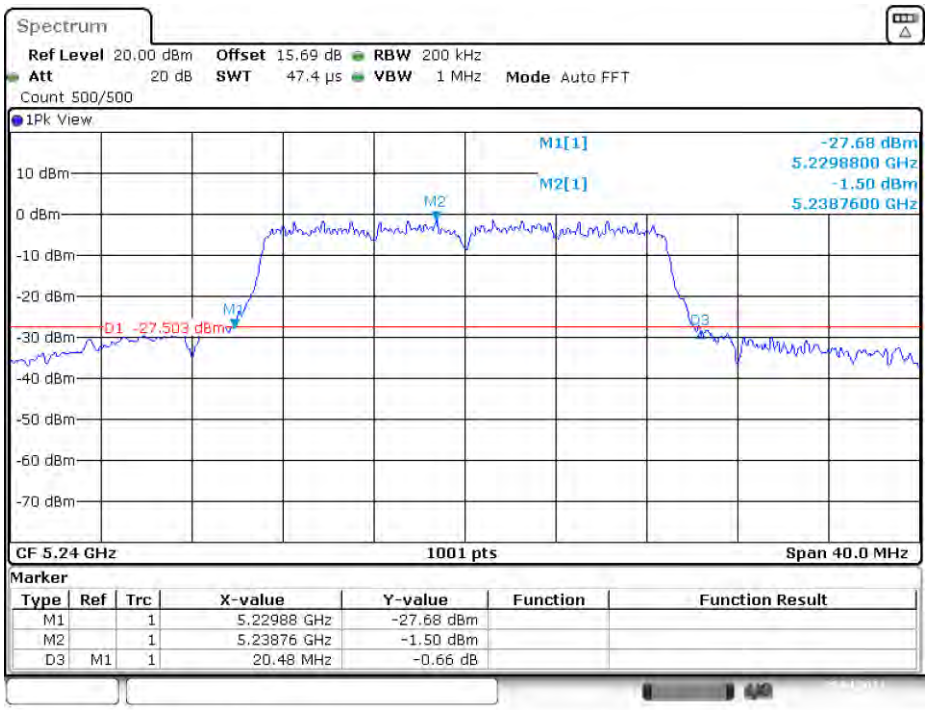
802.11n20 mode, 26 dB Emissions, 5240 MHz



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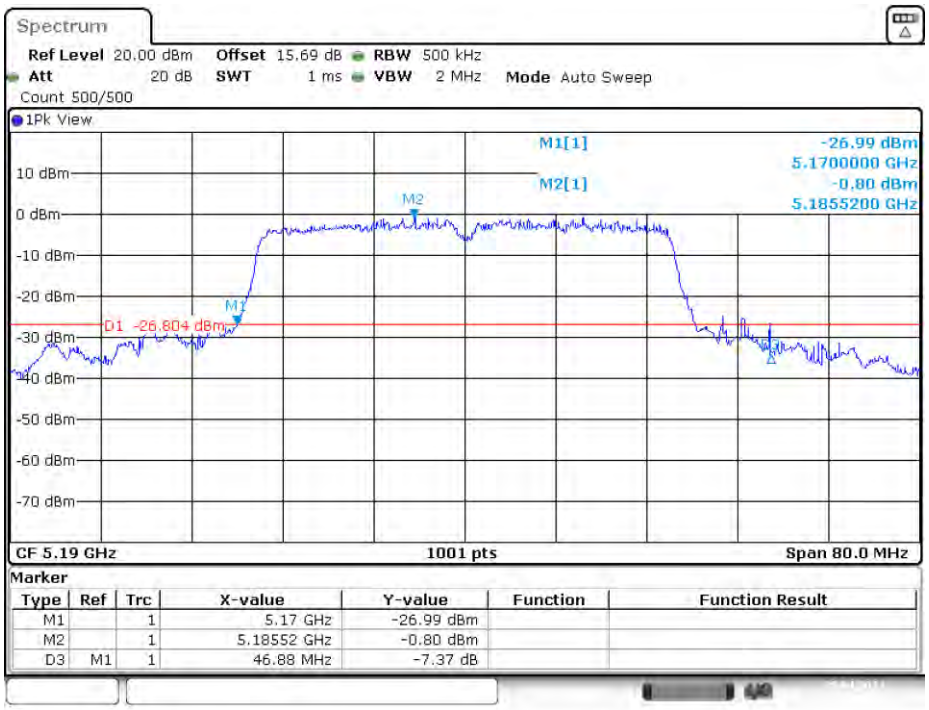
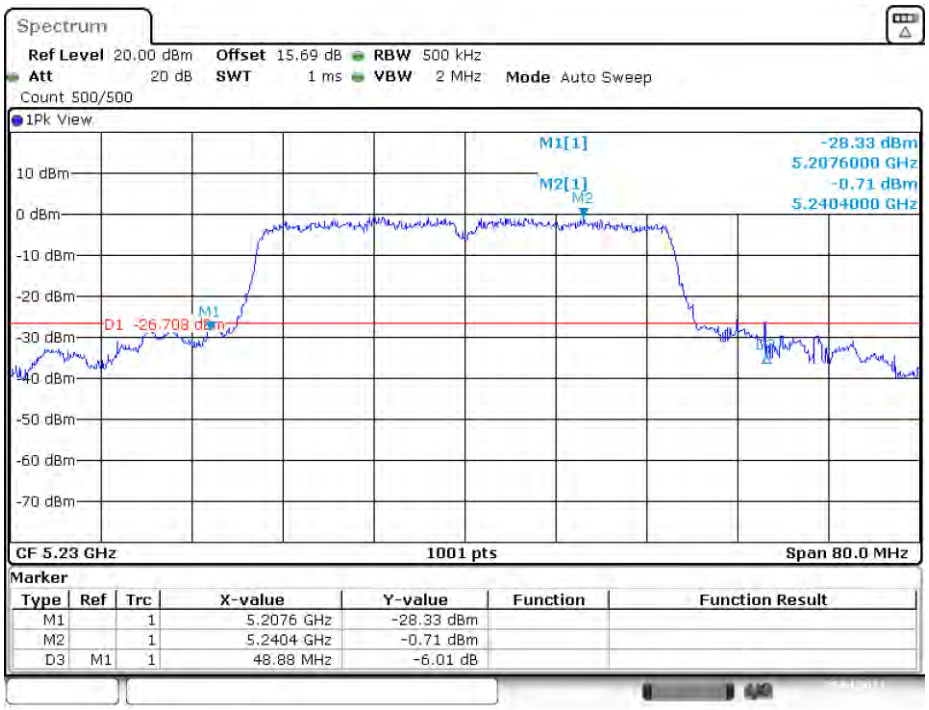
802.11n40 mode, 26 dB Emissions, 5190 MHz



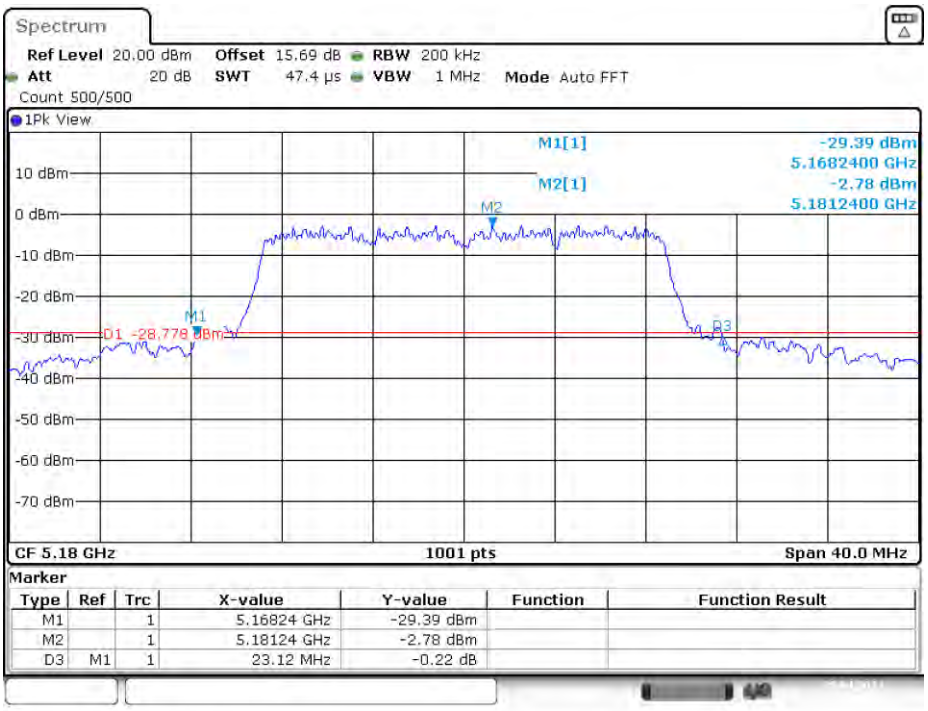
Date: 28.APR.2021 11:32:46

802.11n40 mode, 26 dB Emissions, 5230 MHz

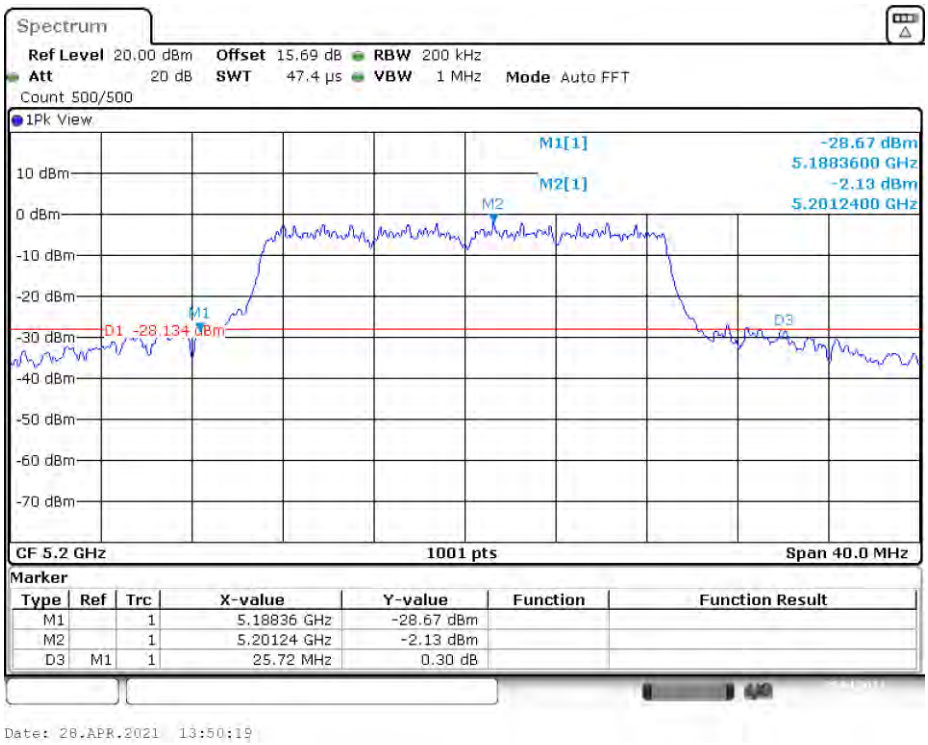


Date: 28.APR.2021 11:39:51

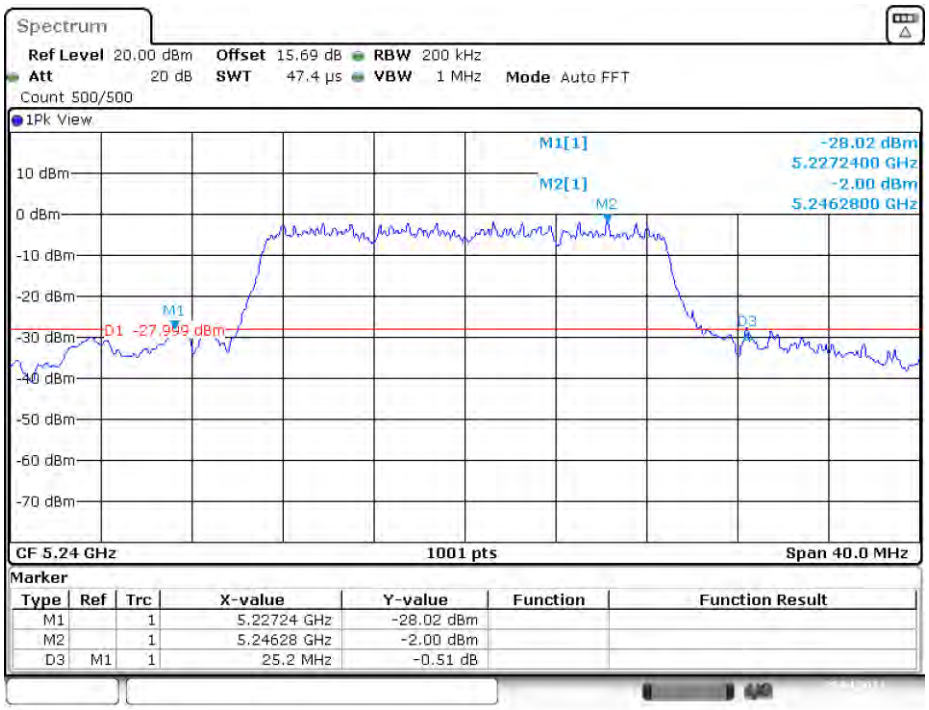
802.11ac20 mode, 26 dB Emissions, 5180 MHz



802.11ac20 mode, 26 dB Emissions, 5200 MHz

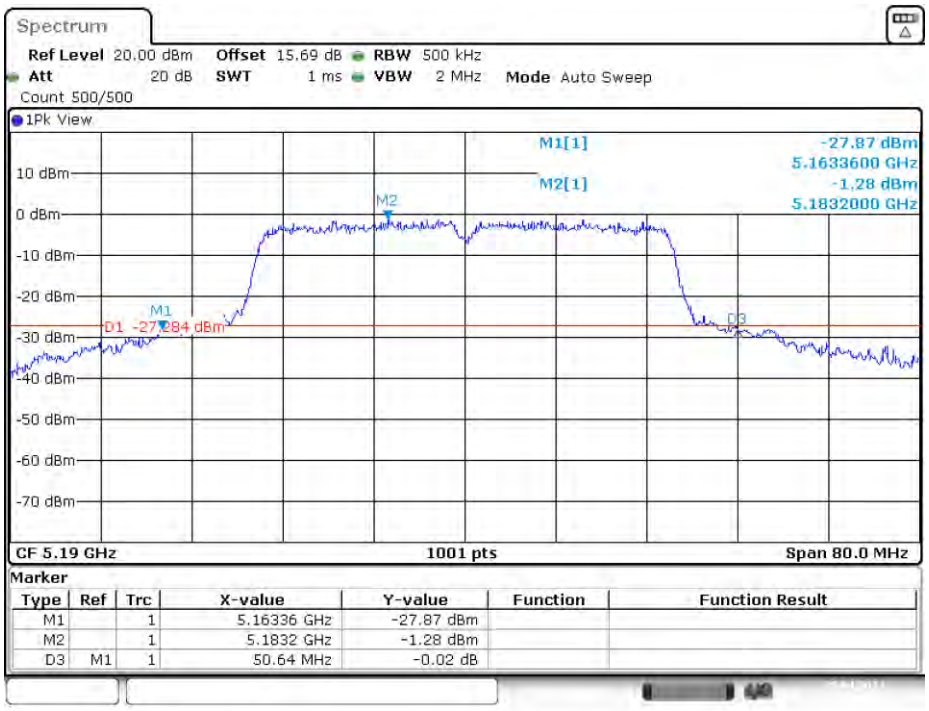


802.11ac20 mode, 26 dB Emissions, 5240 MHz



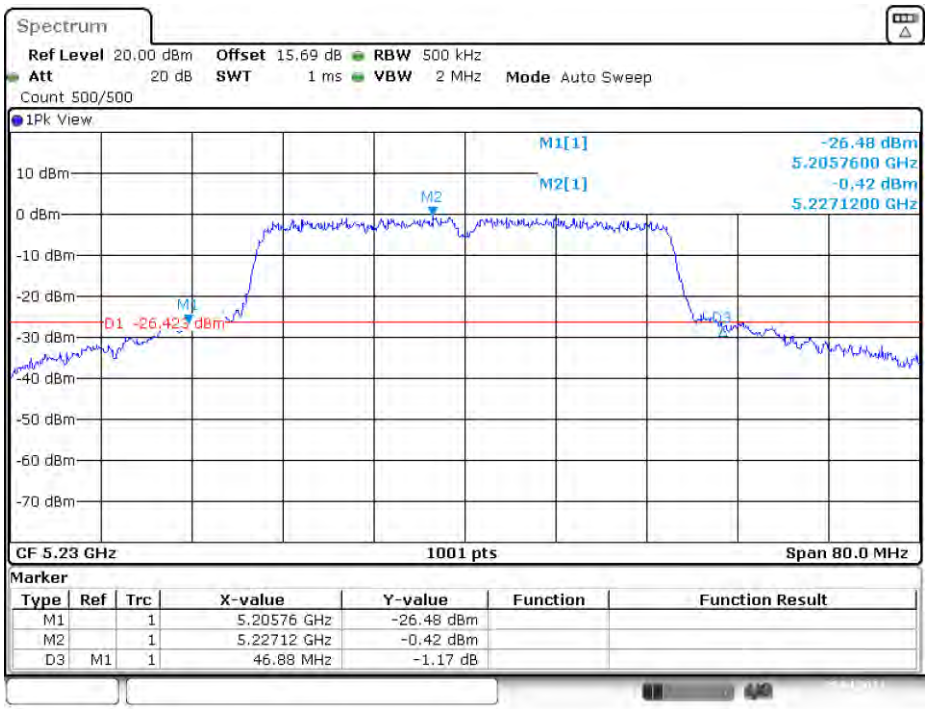
Date: 28.APR.2021 13:57:04

802.11ac40 mode, 26 dB Emissions, 5190 MHz



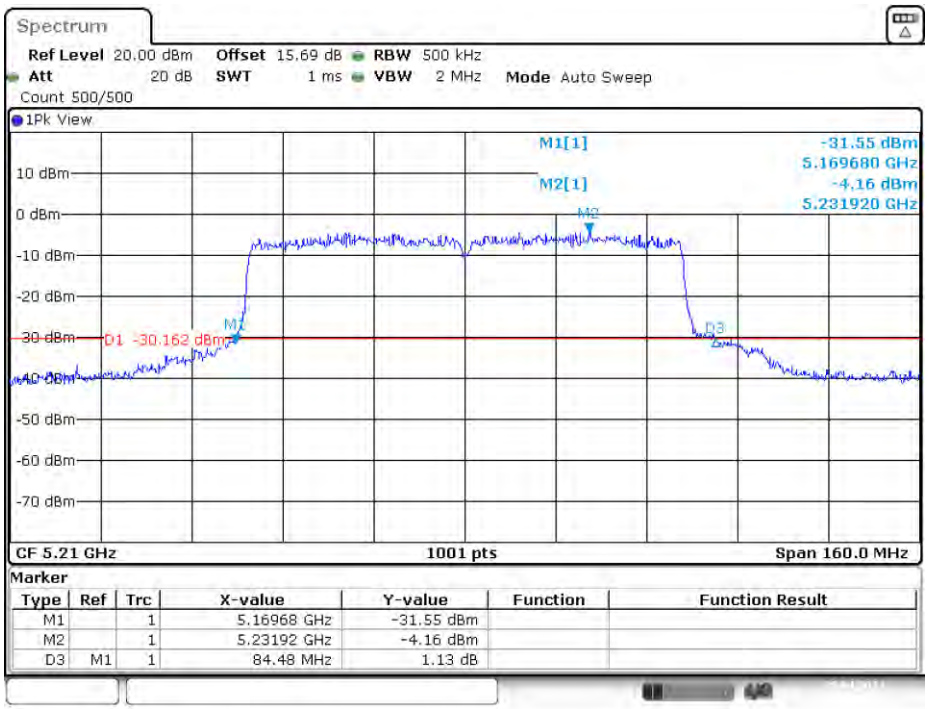
Date: 28.APR.2021 14:28:42

802.11ac40 mode, 26 dB Emissions, 5230 MHz



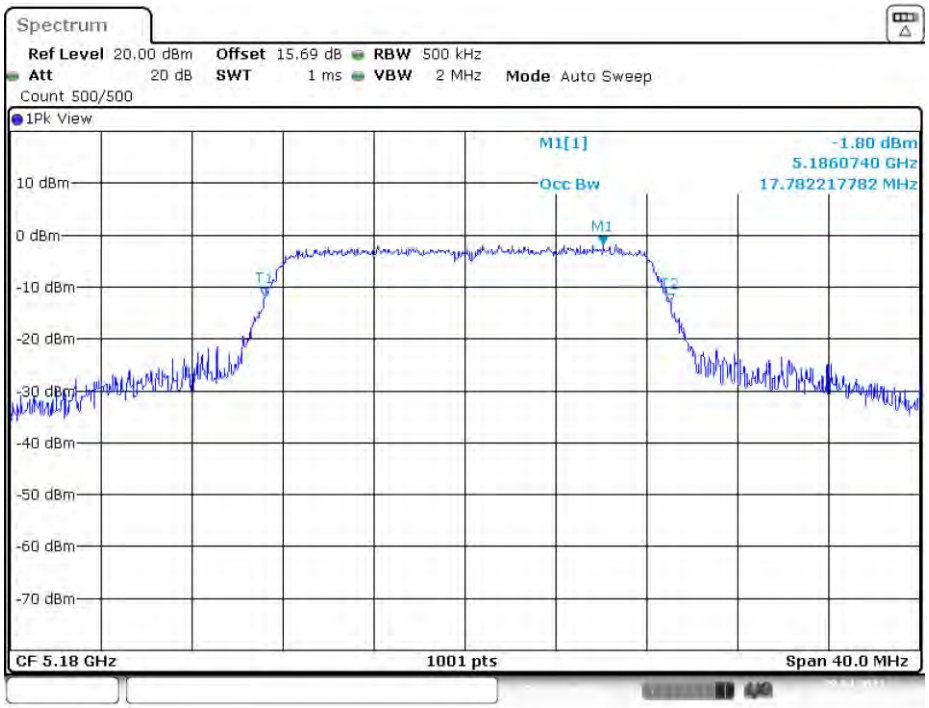
Date: 28.APR.2021 14:37:04

802.11ac80 mode, 26 dB Emissions, 5210 MHz



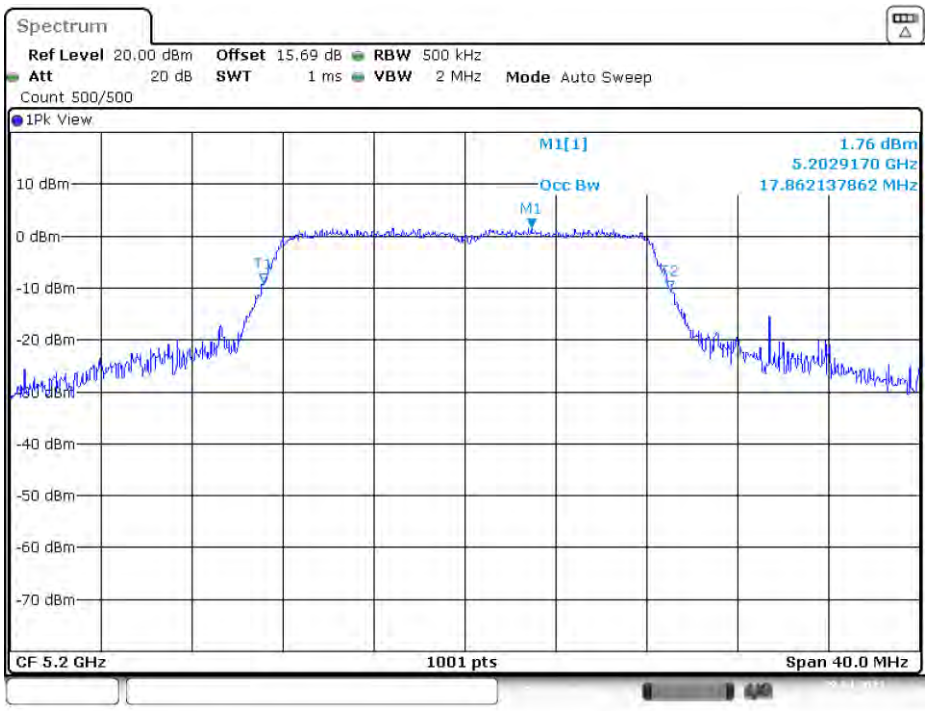
Date: 28.APR.2021 15:02:01

802.11a mode, 99% Occupied Bandwidth, 5180 MHz



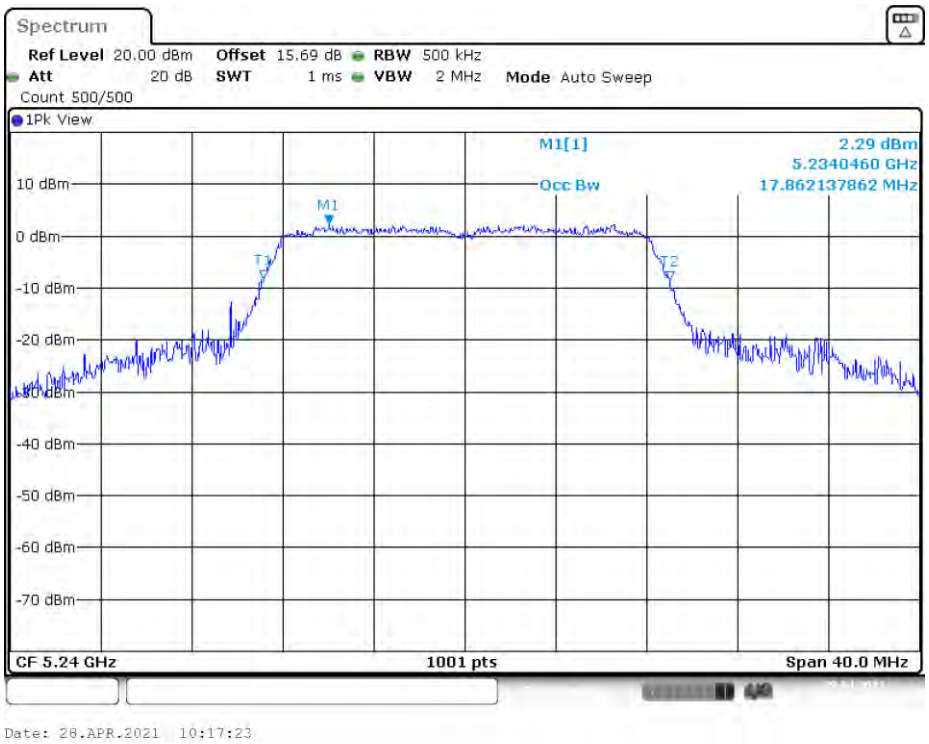
Date: 28.APR.2021 10:03:13

802.11a mode, 99% Occupied Bandwidth, 5200 MHz

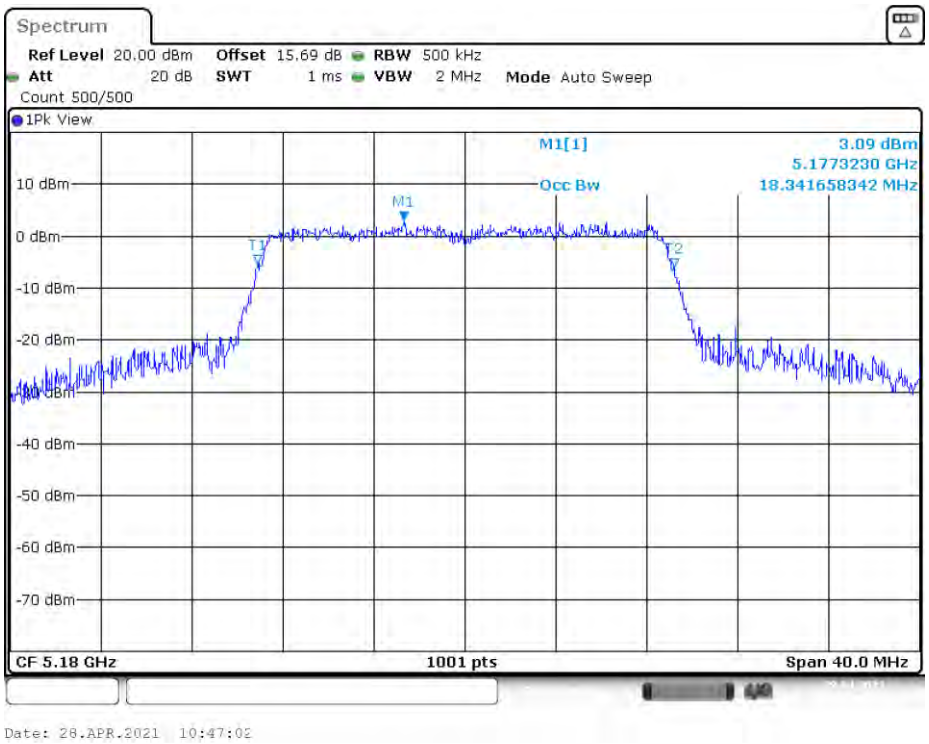


Date: 28.APR.2021 10:10:49

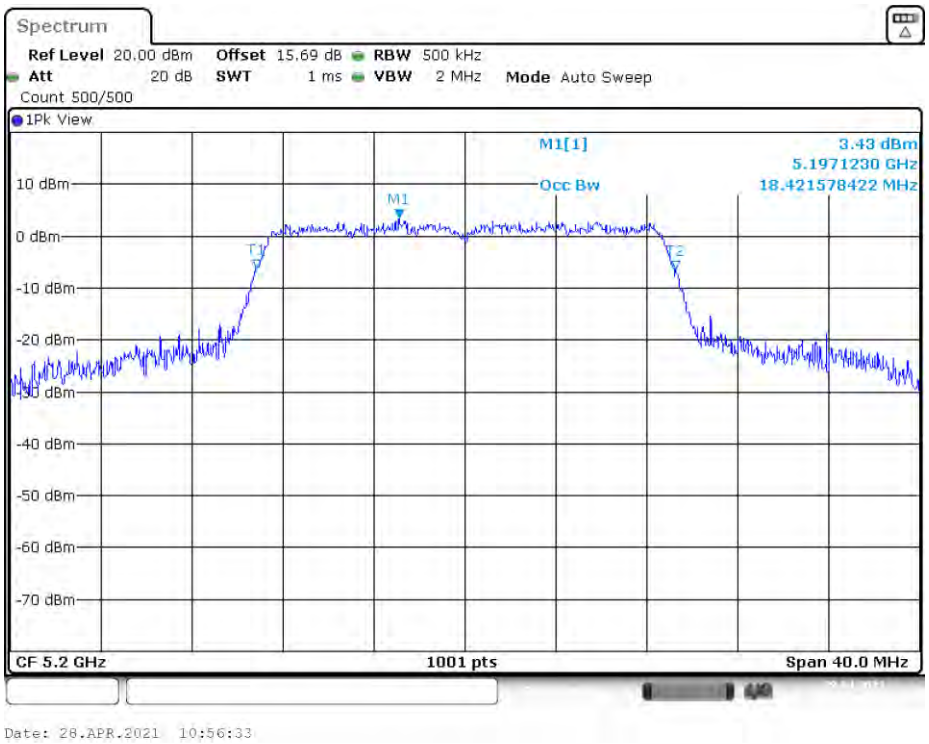
802.11a mode, 99% Occupied Bandwidth, 5240 MHz



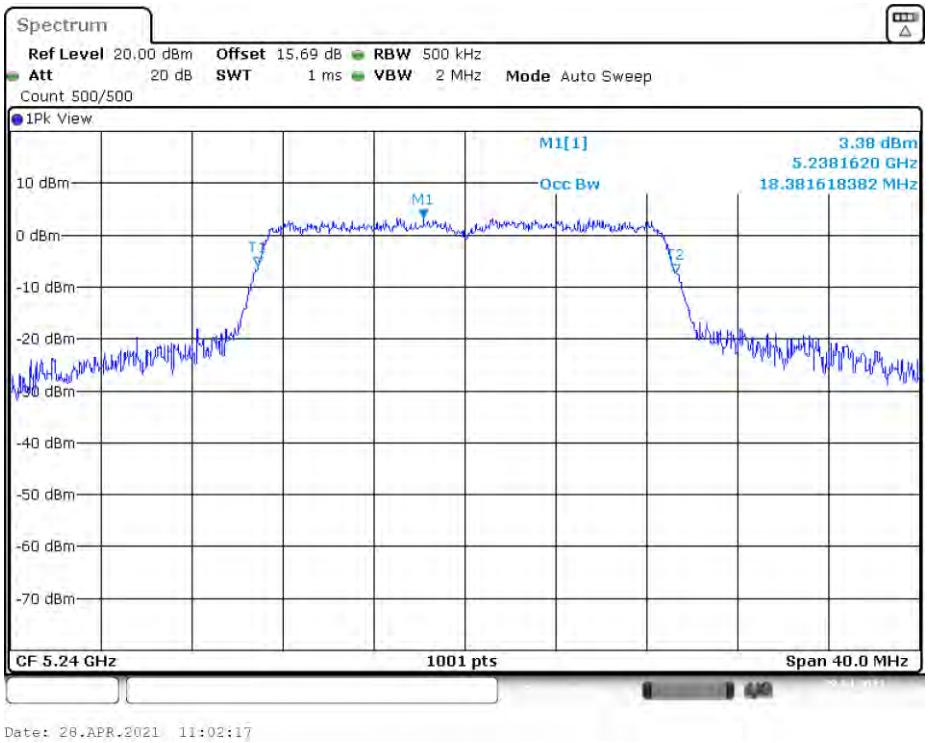
802.11n20 mode, 99% Occupied Bandwidth, 5180 MHz



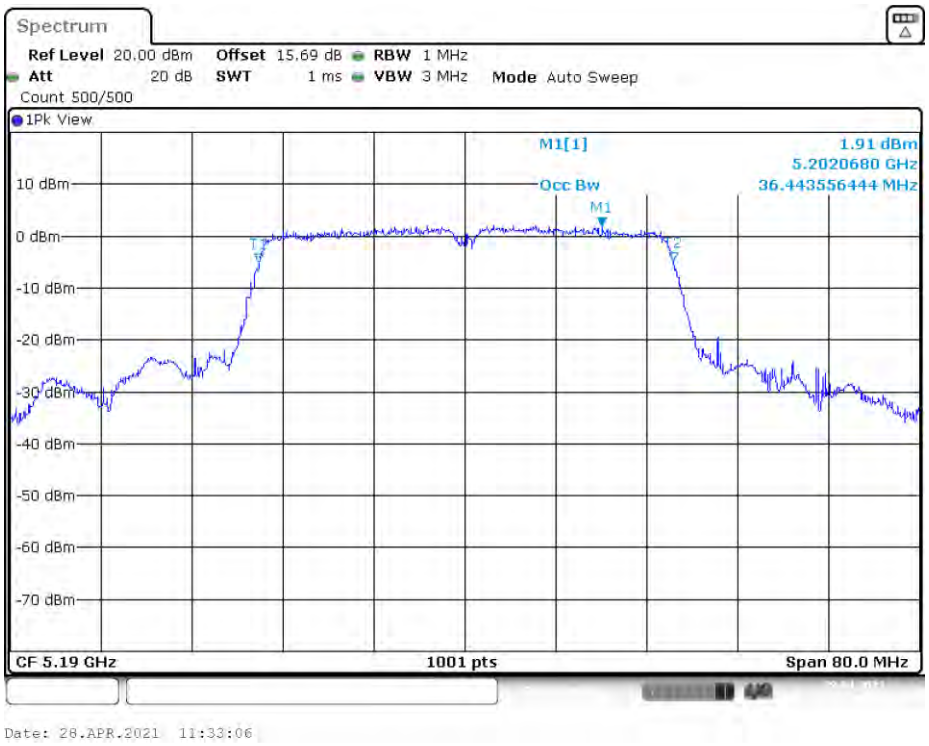
802.11n20 mode, 99% Occupied Bandwidth, 5200 MHz



802.11n20 mode, 99% Occupied Bandwidth, 5240 MHz

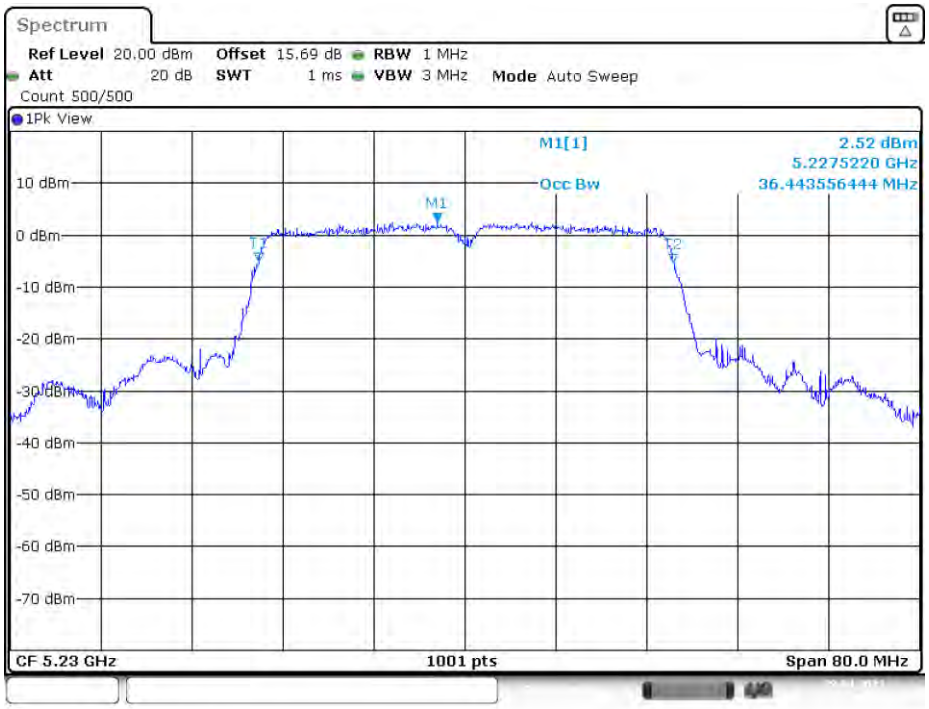


802.11n40 mode, 99% Occupied Bandwidth, 5190 MHz



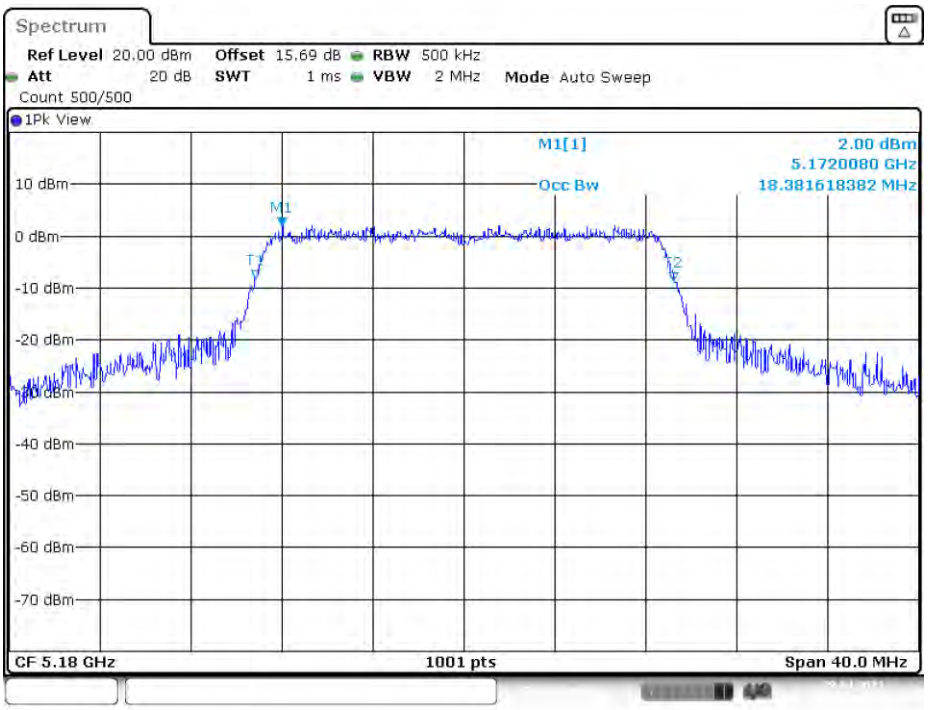
Date: 28.APR.2021 11:33:06

802.11n40 mode, 99% Occupied Bandwidth, 5230 MHz

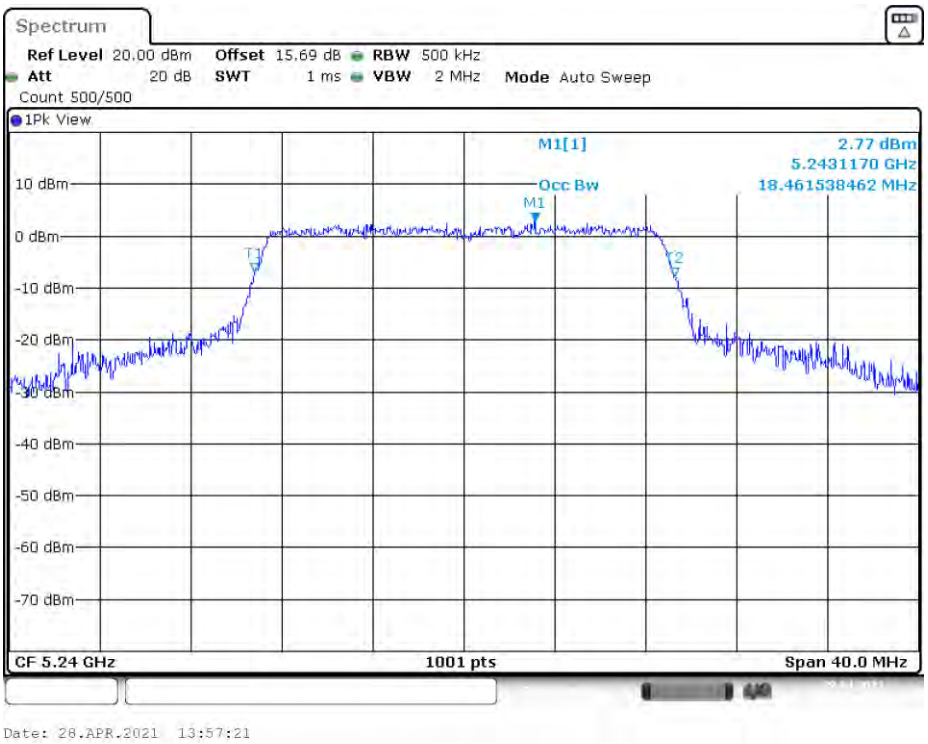


Date: 28.APR.2021 11:40:08

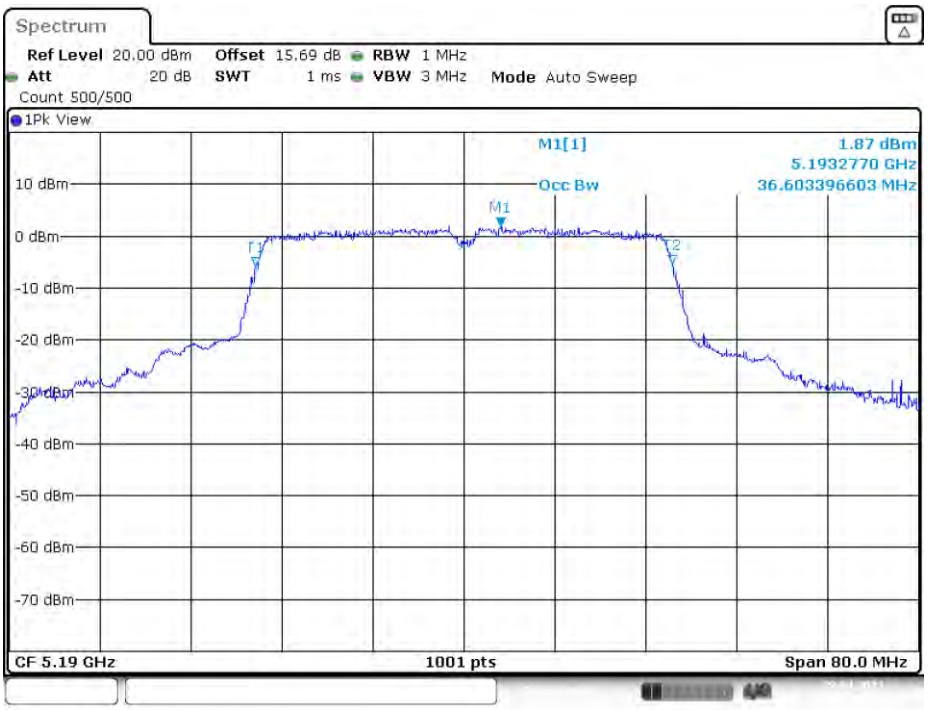
802.11ac20 mode, 99% Occupied Bandwidth, 5180 MHz



802.11ac20 mode, 99% Occupied Bandwidth, 5240 MHz

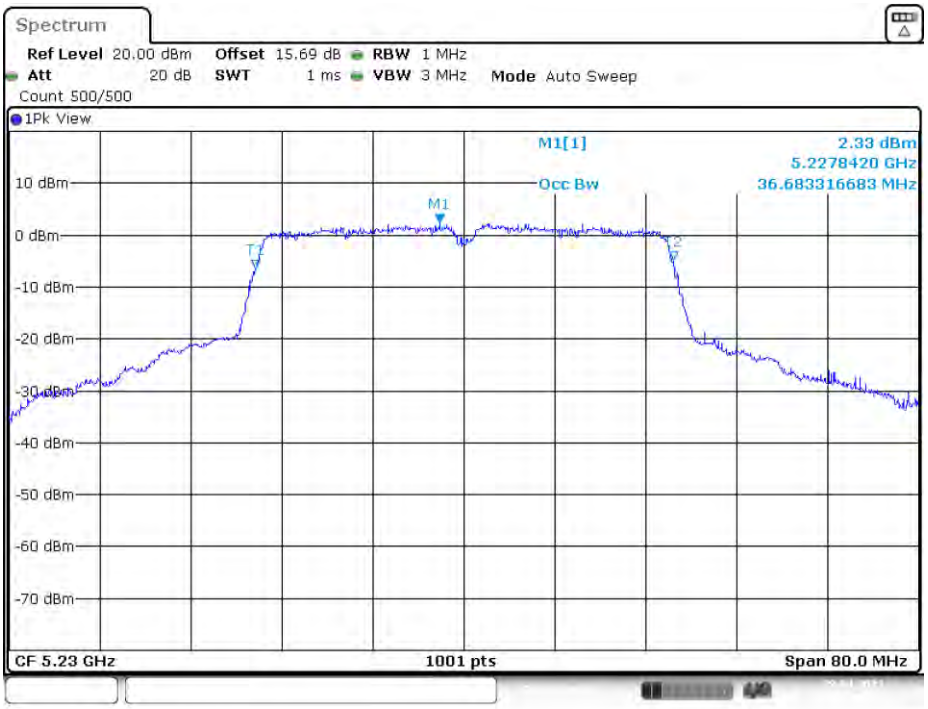


802.11ac40 mode, 99% Occupied Bandwidth, 5190 MHz



Date: 28.APR.2021 14:28:59

802.11ac40 mode, 99% Occupied Bandwidth, 5230 MHz



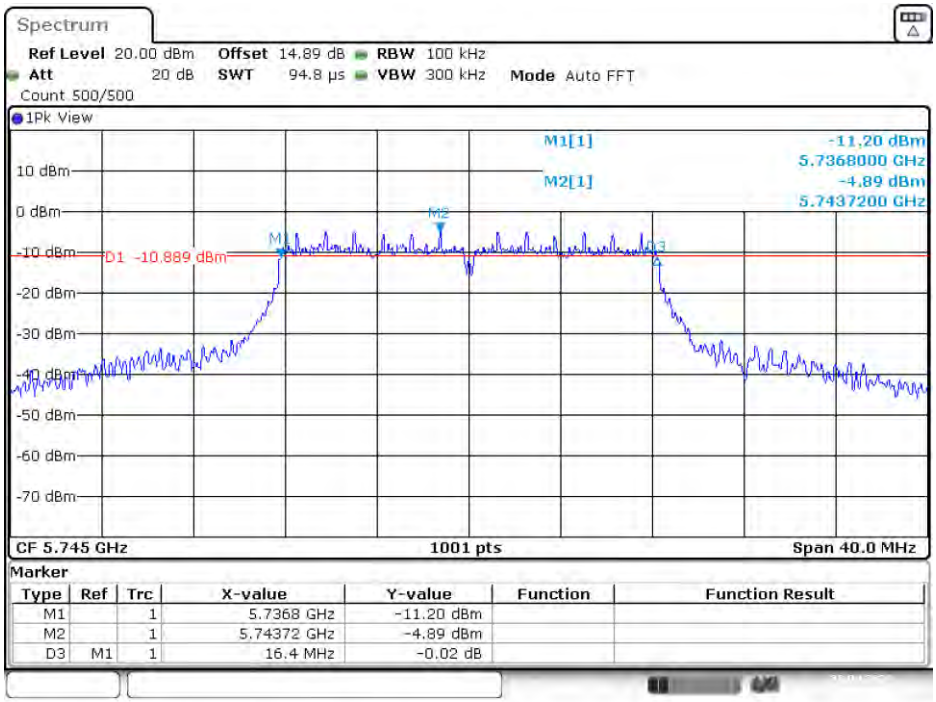
Date: 28.APR.2021 14:37:21

802.11ac80 mode, 99% Occupied Bandwidth, 5210 MHz

5725 MHz – 5850 MHz:

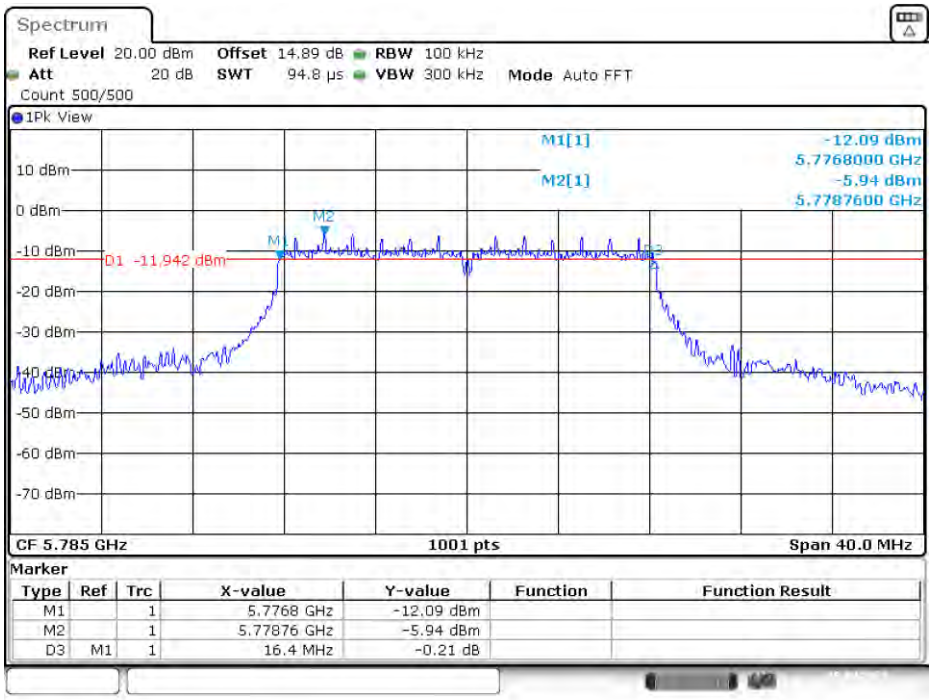
Frequency (MHz)	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Remark
802.11a				No transmitted signal in the 99% bandwidth extends into the U-NII-2C band
5745	16.400	17.902	0.5	
5785	16.400	17.902	0.5	
5825	16.440	17.862	0.5	
802.11n20				
5745	17.640	18.422	0.5	
5785	17.680	18.422	0.5	
5825	17.640	18.422	0.5	
802.11n40				
5755	35.760	36.603	0.5	
5795	35.680	36.683	0.5	
802.11ac20				
5745	17.640	18.462	0.5	
5785	17.680	18.501	0.5	
5825	17.640	18.501	0.5	
802.11ac40				
5755	35.920	36.763	0.5	
5795	35.760	36.843	0.5	
802.11ac80				
5210	75.680	75.764	0.5	

802.11a mode, 6dB Emission Bandwidth, 5745 MHz



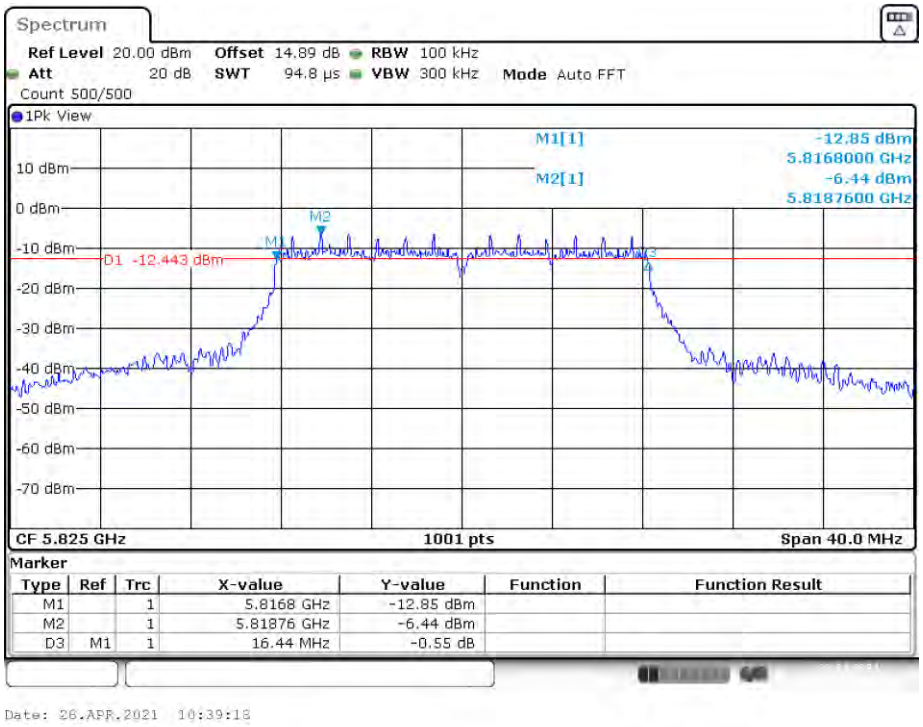
Date: 28.APR.2021 10:25:19

802.11a mode, 6dB Emission Bandwidth, 5785 MHz

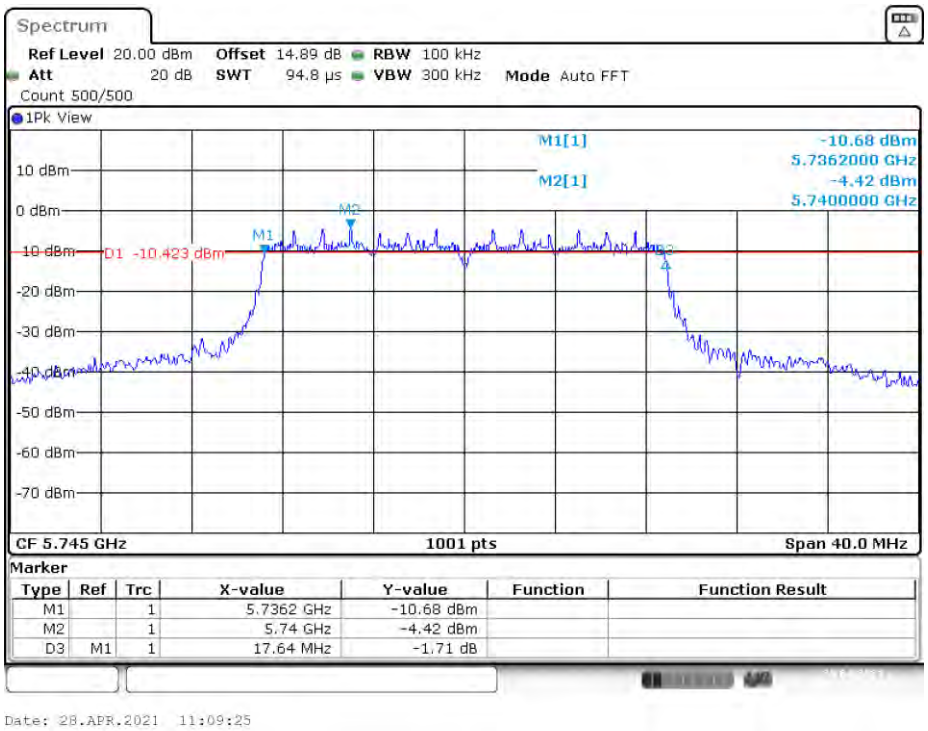


Date: 28.APR.2021 10:32:47

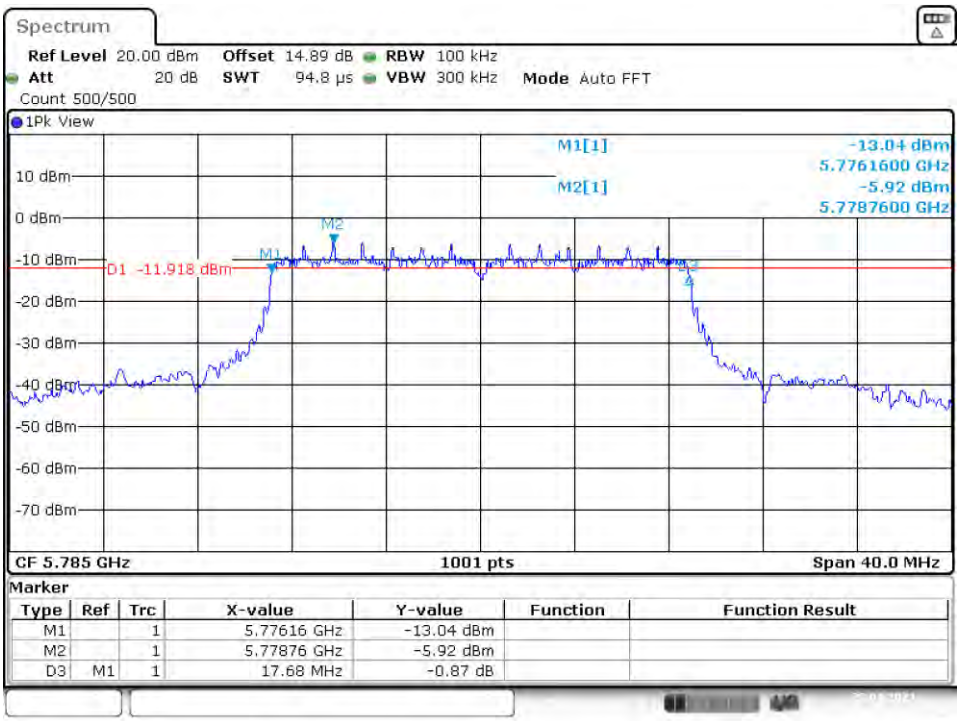
802.11a mode, 6dB Emission Bandwidth, 5825 MHz



802.11n20 mode, 6dB Emission Bandwidth, 5745 MHz

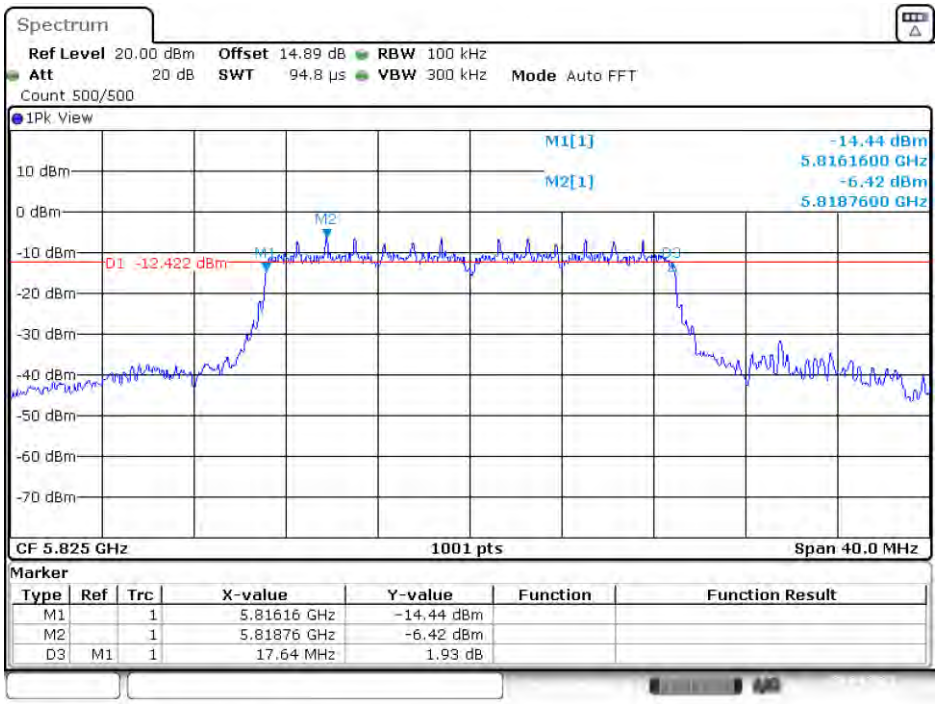


802.11n20 mode, 6dB Emission Bandwidth, 5785 MHz



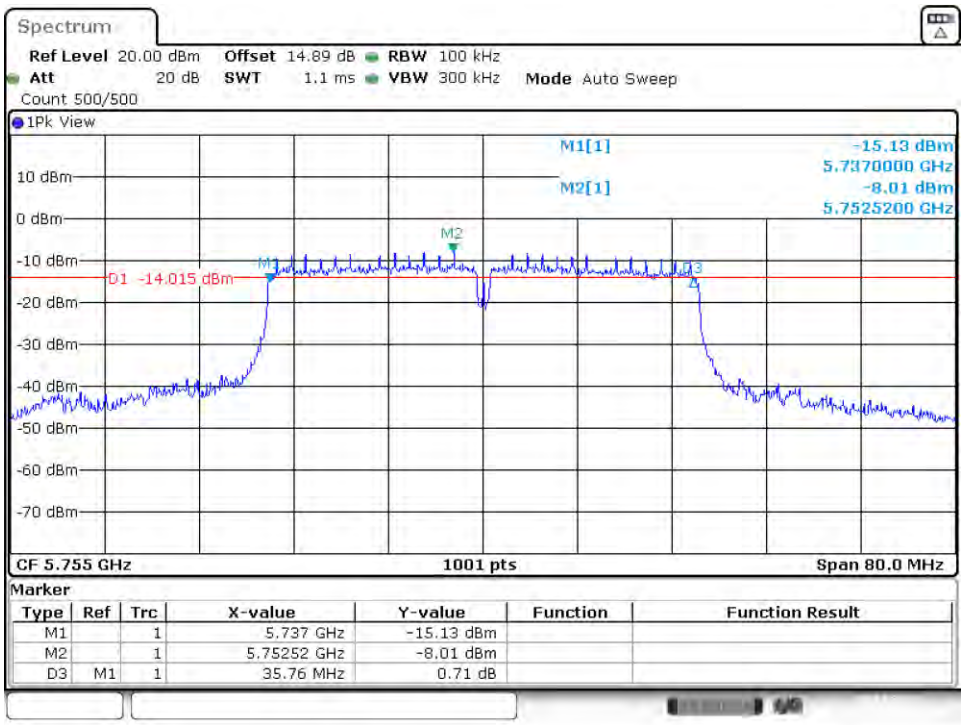
Date: 28.APR.2021 11:17:55

802.11n20 mode, 6dB Emission Bandwidth, 5825 MHz

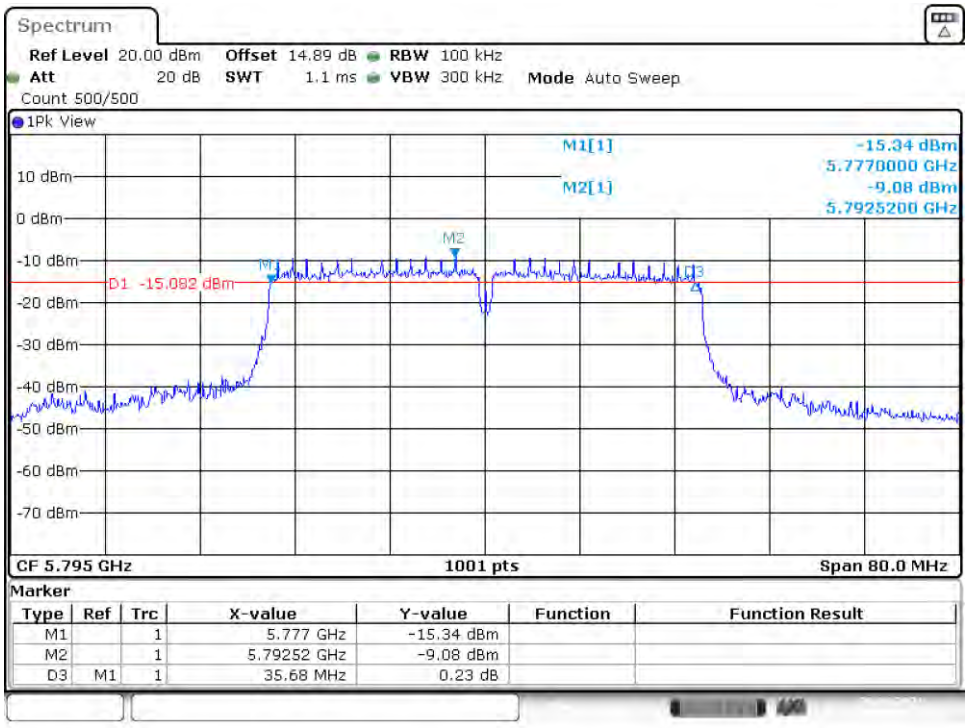


Date: 28.APR.2021 11:25:06

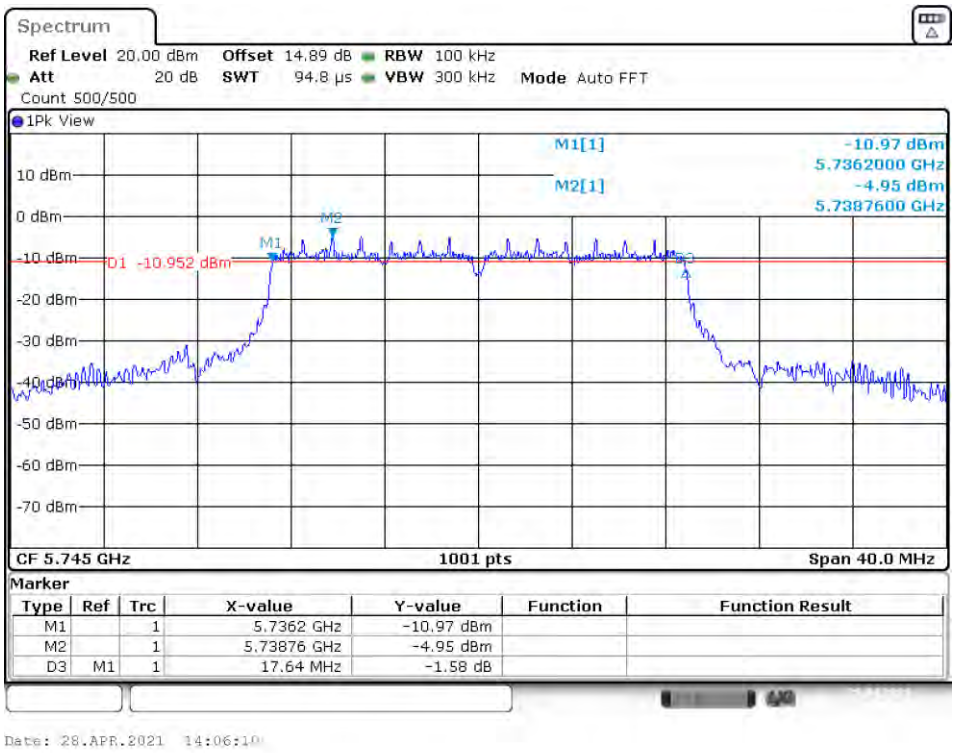
802.11n40 mode, 6dB Emission Bandwidth, 5755 MHz



802.11n40 mode, 6dB Emission Bandwidth, 5795 MHz

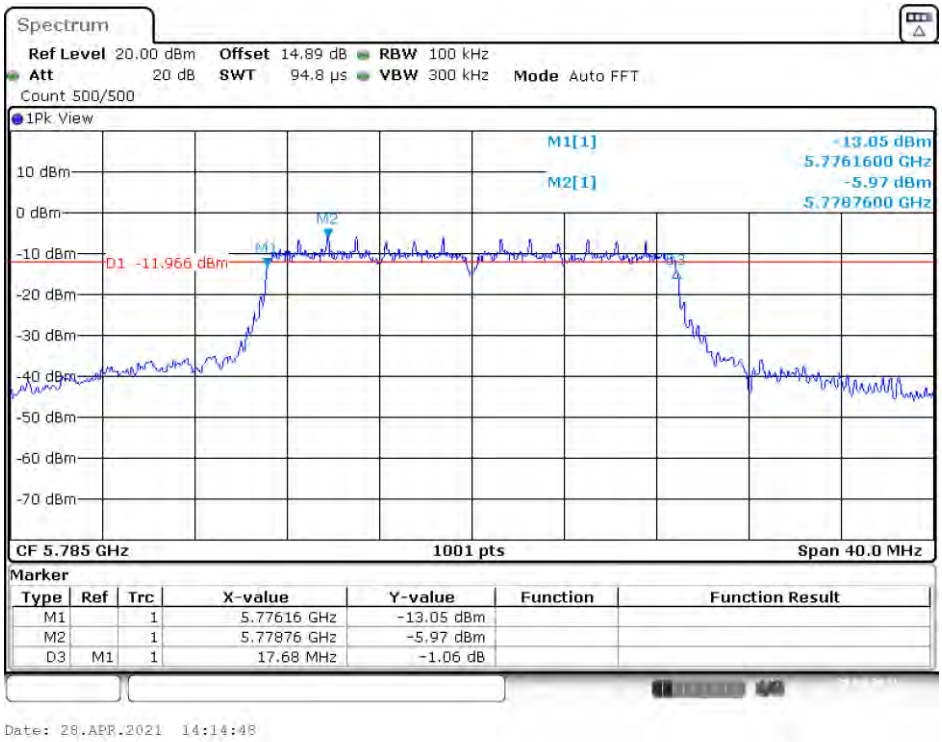


802.11ac20 mode, 6dB Emission Bandwidth, 5745 MHz



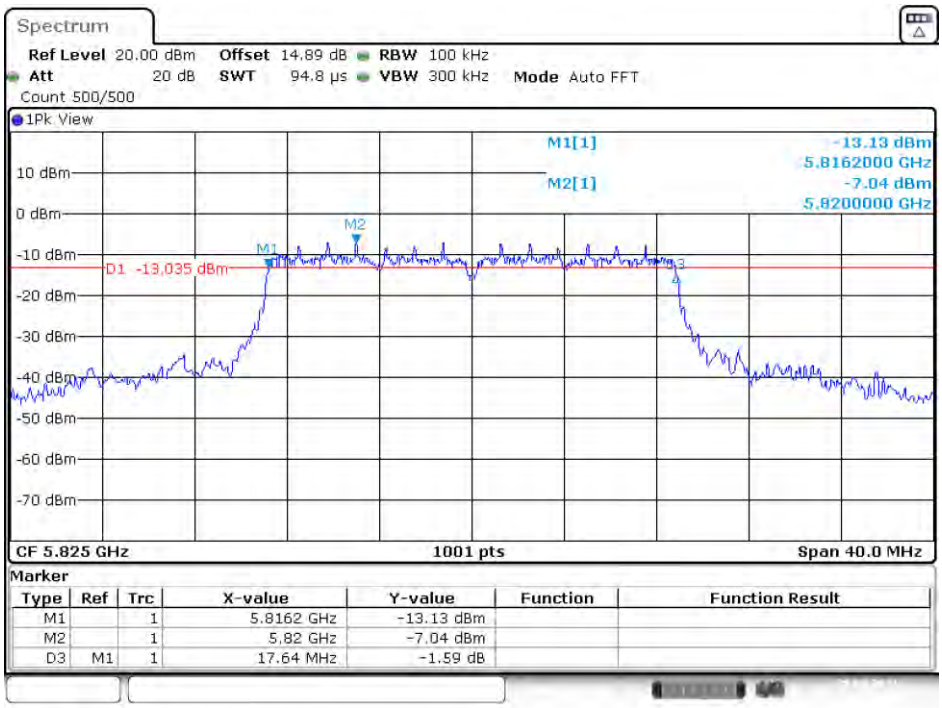
Date: 28.APR.2021 14:06:10

802.11ac20 mode, 6dB Emission Bandwidth, 5785 MHz

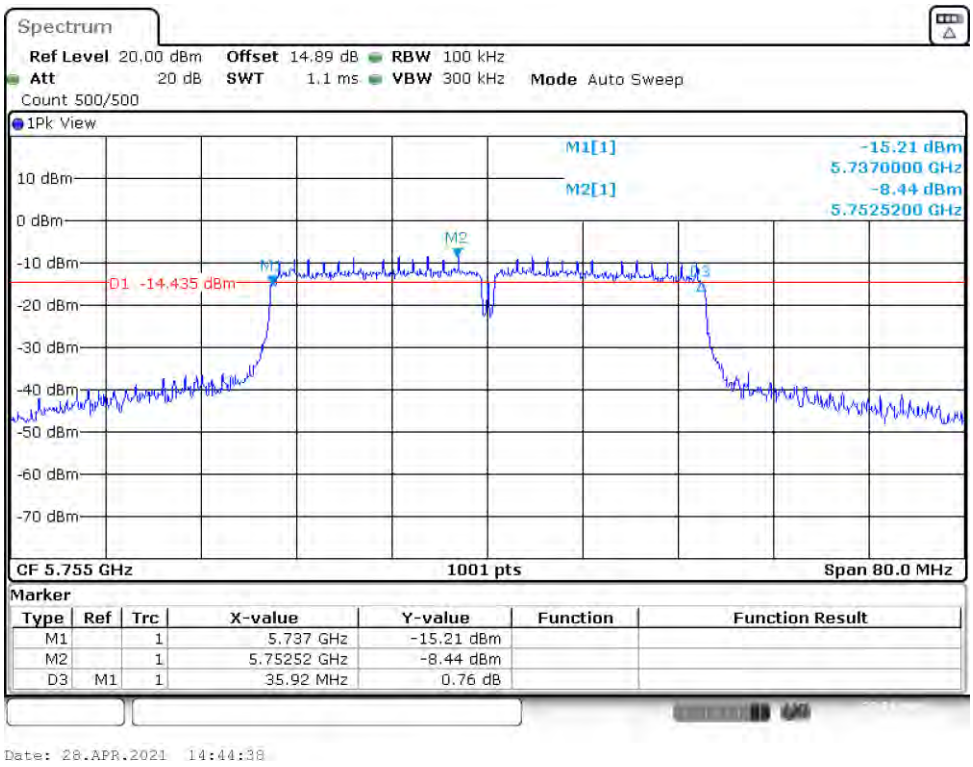


Date: 28.APR.2021 14:14:48

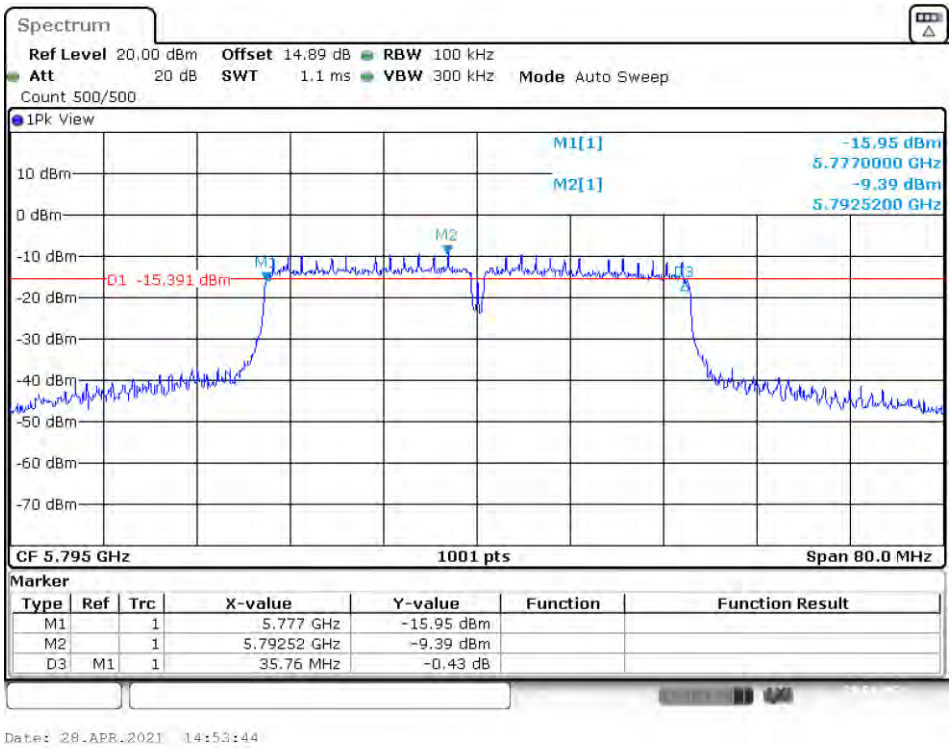
802.11ac20 mode, 6dB Emission Bandwidth, 5825 MHz



802.11ac40 mode, 6dB Emission Bandwidth, 5755 MHz

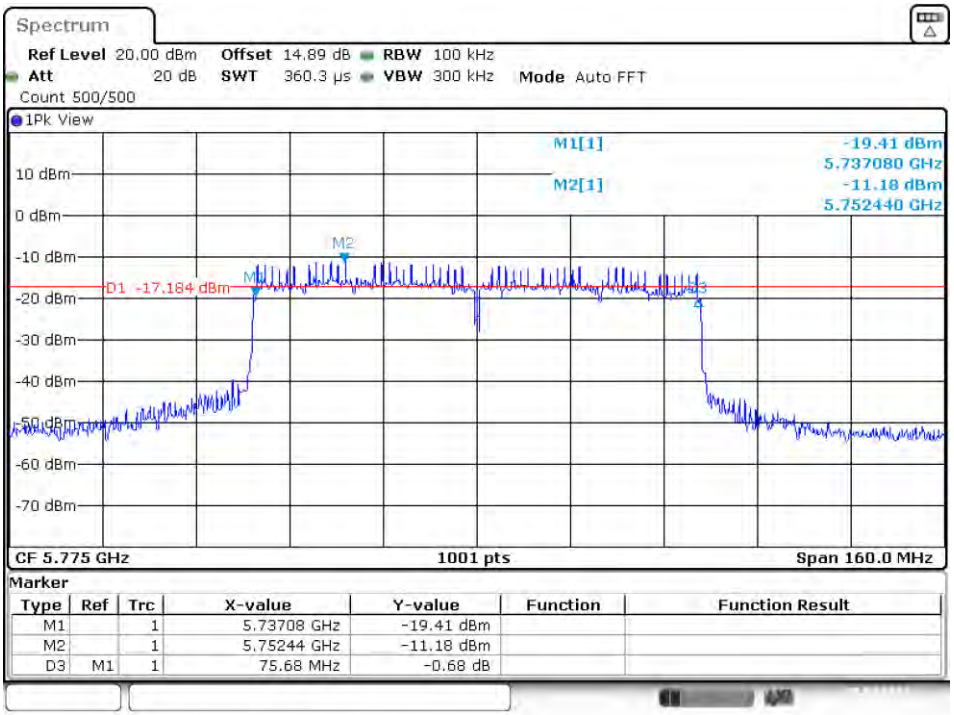


802.11ac40 mode, 6dB Emission Bandwidth, 5795 MHz



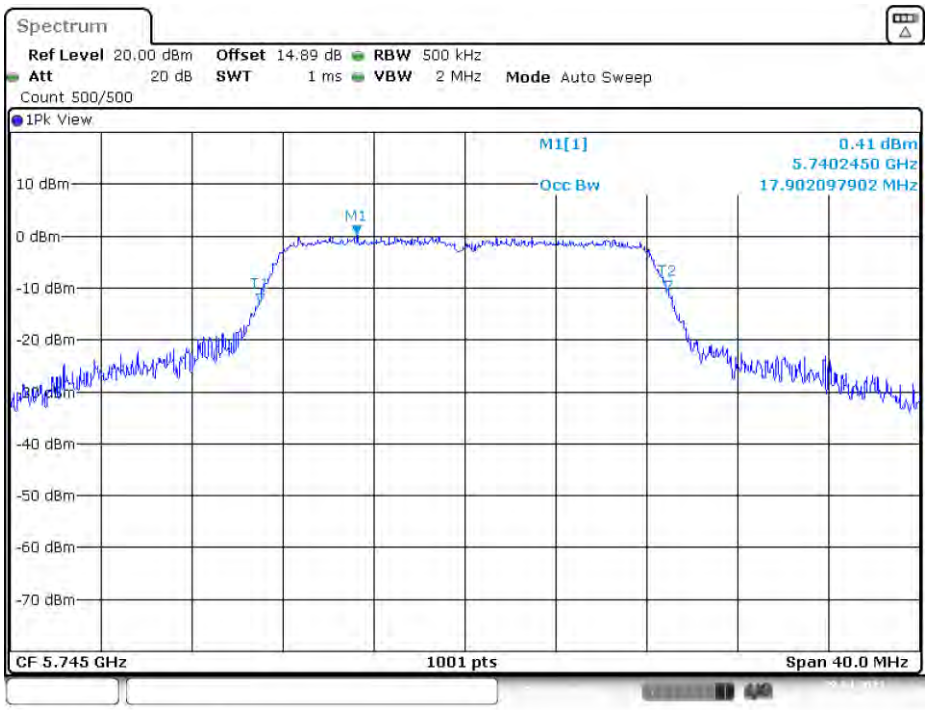
Date: 28.APR.2021 14:53:44

802.11ac80 mode, 6dB Emission Bandwidth, 5775 MHz



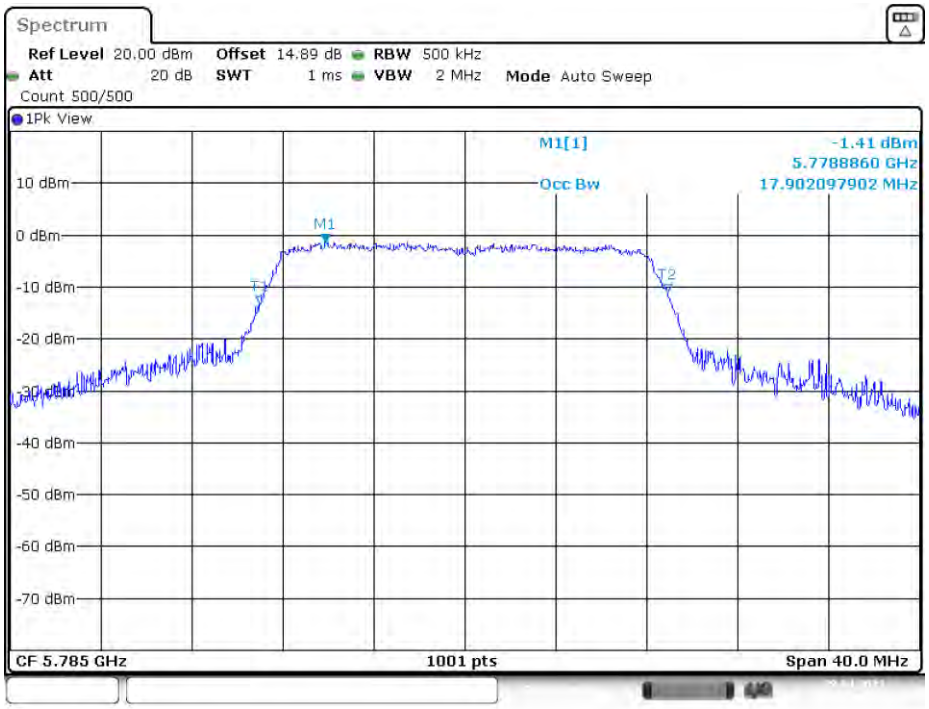
Date: 28.APR.2021 15:11:37

802.11a mode, 99% Occupied Bandwidth, 5745 MHz



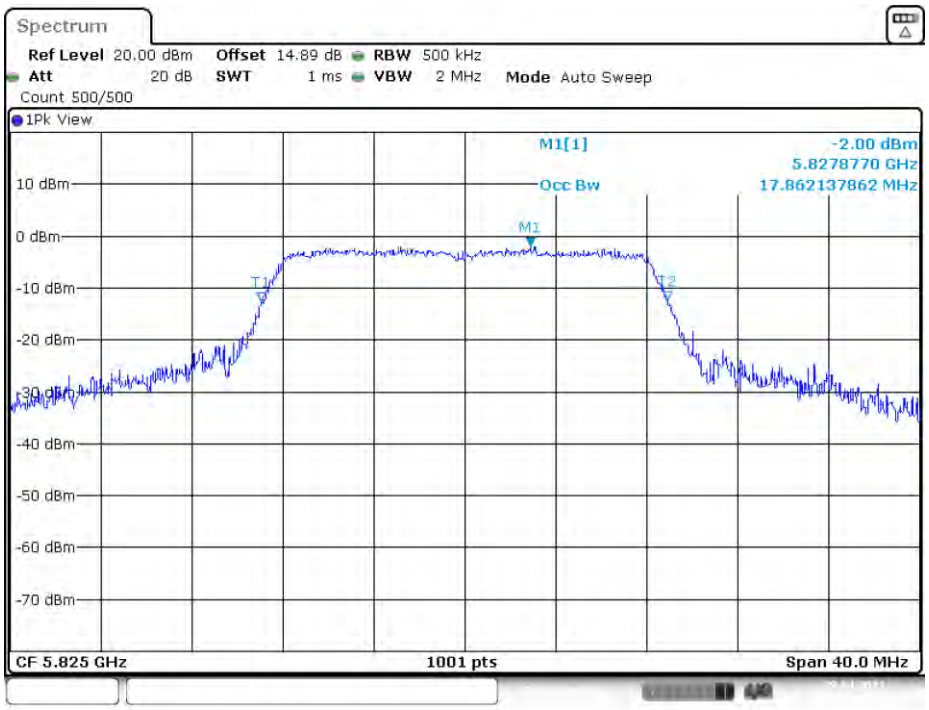
Date: 28.APR.2021 10:25:36

802.11a mode, 99% Occupied Bandwidth, 5785 MHz



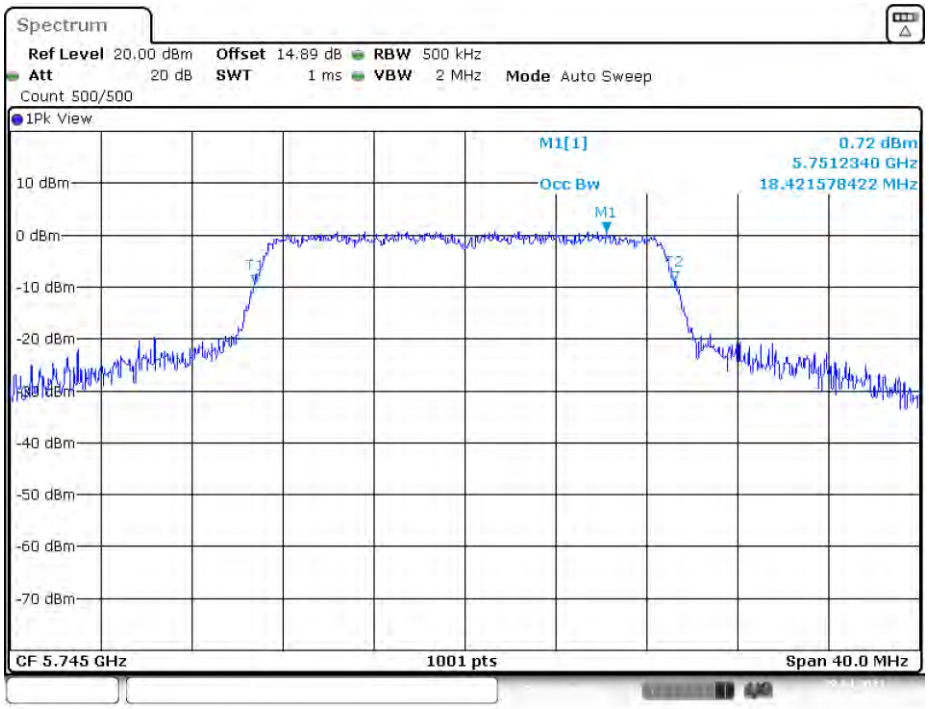
Date: 28.APR.2021 10:33:04

802.11a mode, 99% Occupied Bandwidth, 5825 MHz



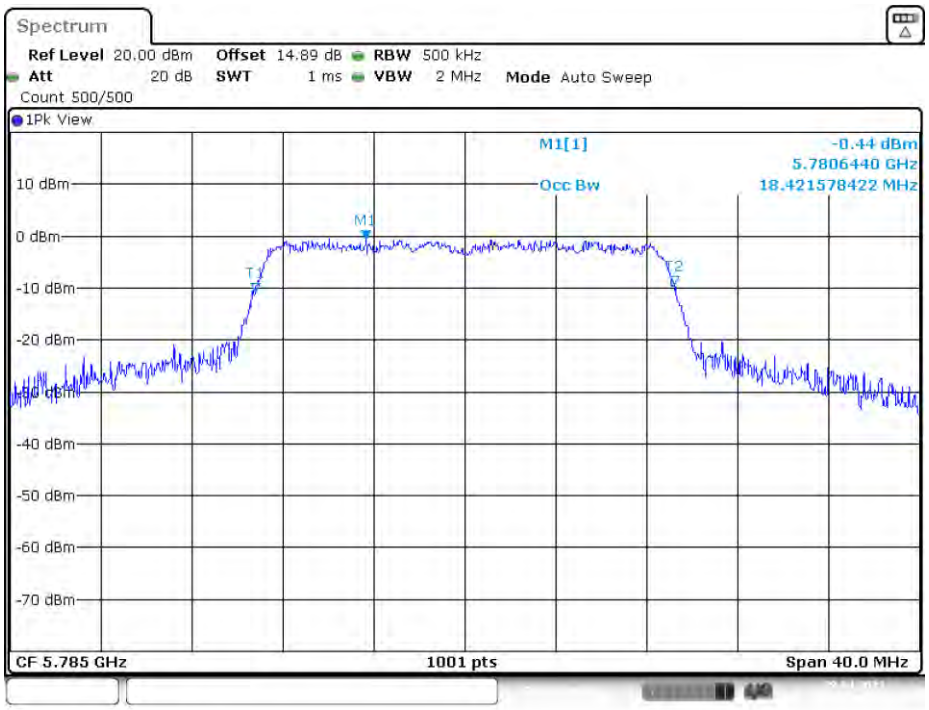
Date: 28.APR.2021 10:39:35

802.11n20 mode, 99% Occupied Bandwidth, 5745 MHz



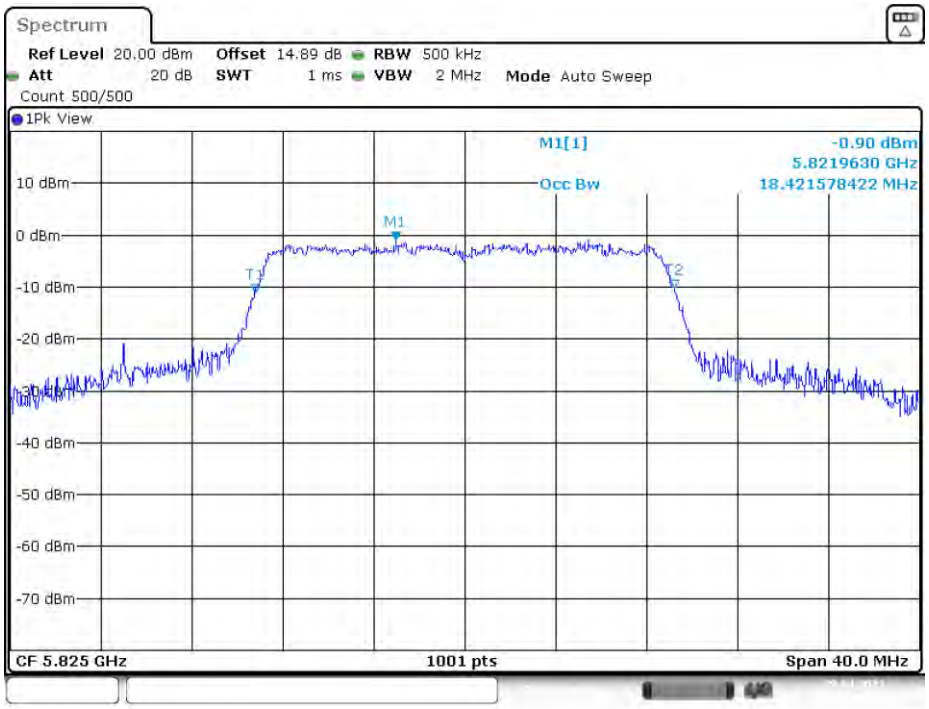
Date: 28.APR.2021 11:09:42

802.11n20 mode, 99% Occupied Bandwidth, 5785 MHz



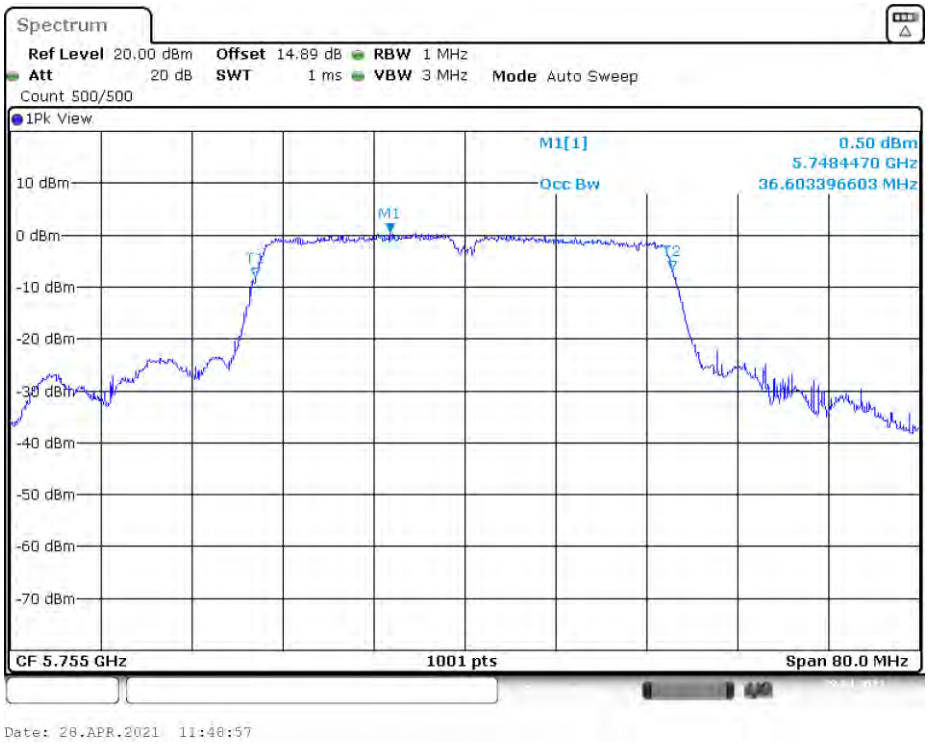
Date: 28.APR.2021 11:18:12

802.11n20 mode, 99% Occupied Bandwidth, 5825 MHz

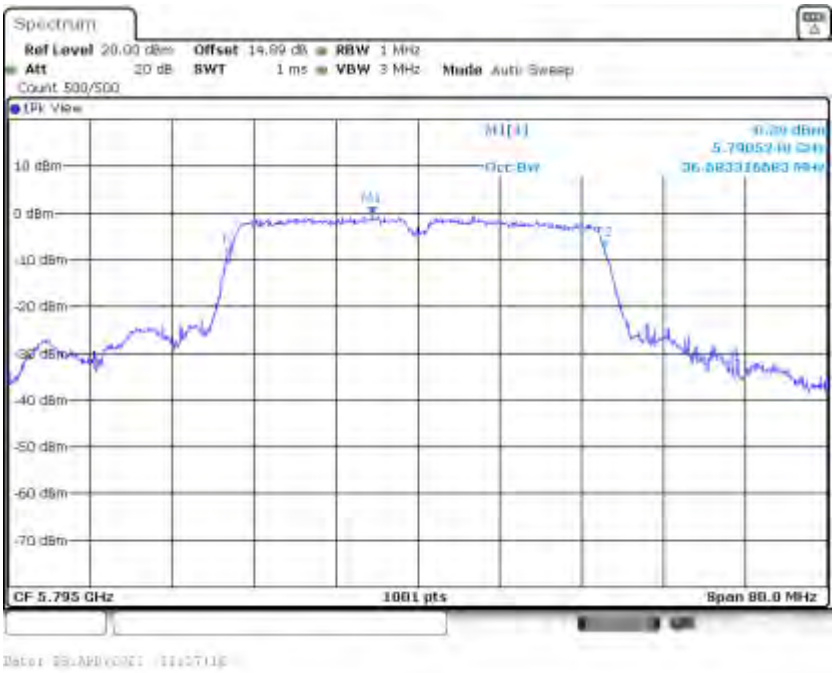


Date: 28.APR.2021 11:25:23

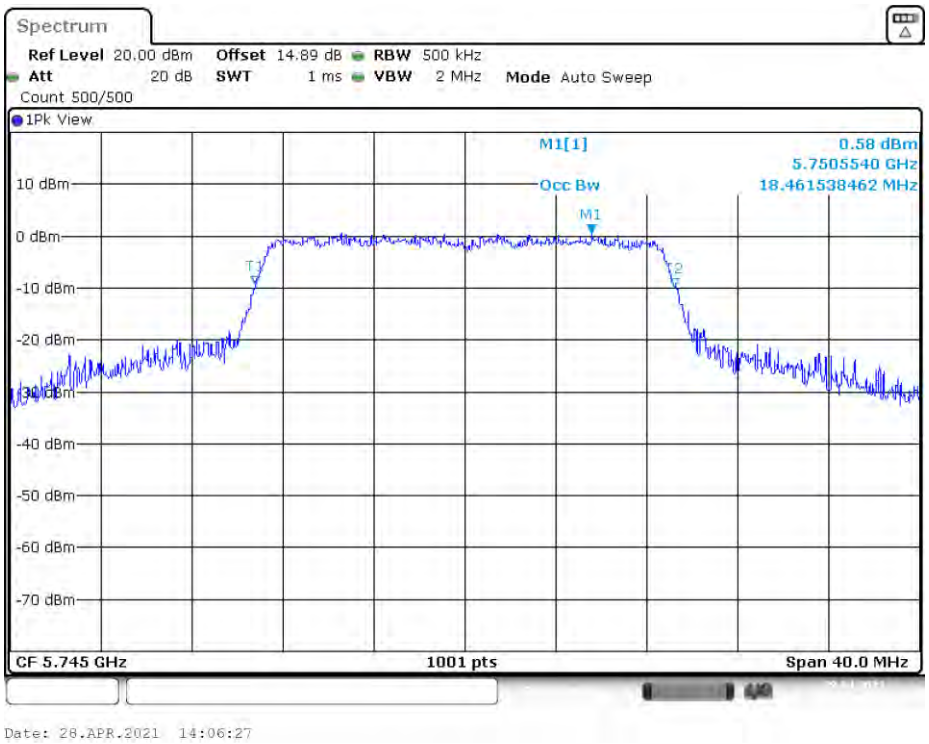
802.11n40 mode, 99% Occupied Bandwidth, 5755 MHz



802.11n40 mode, 99% Occupied Bandwidth, 5795 MHz

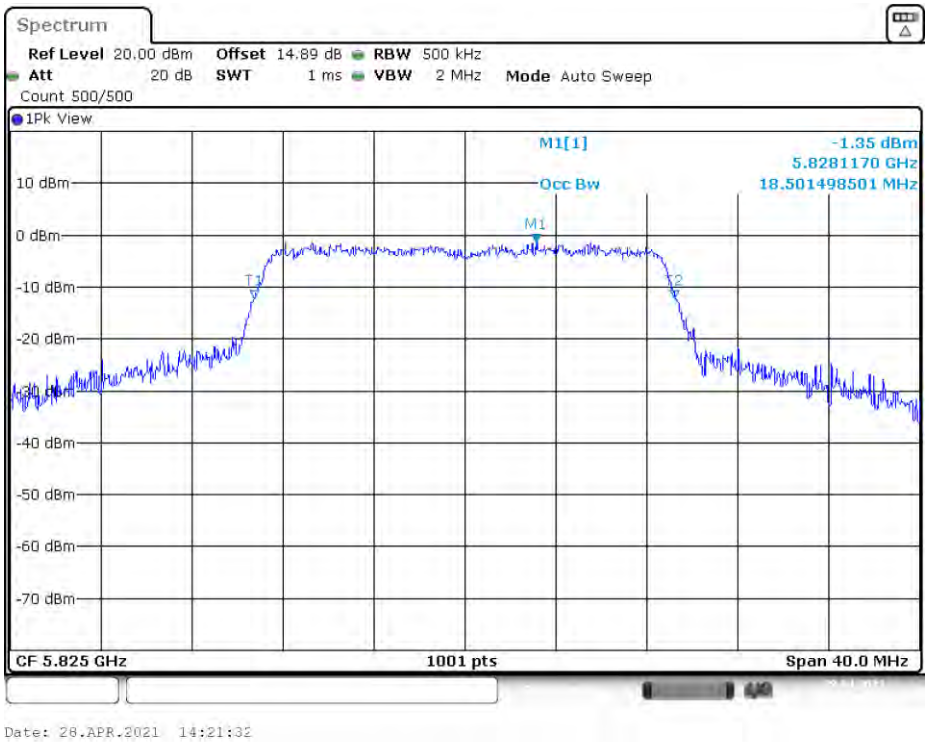


802.11ac20 mode, 99% Occupied Bandwidth, 5745 MHz



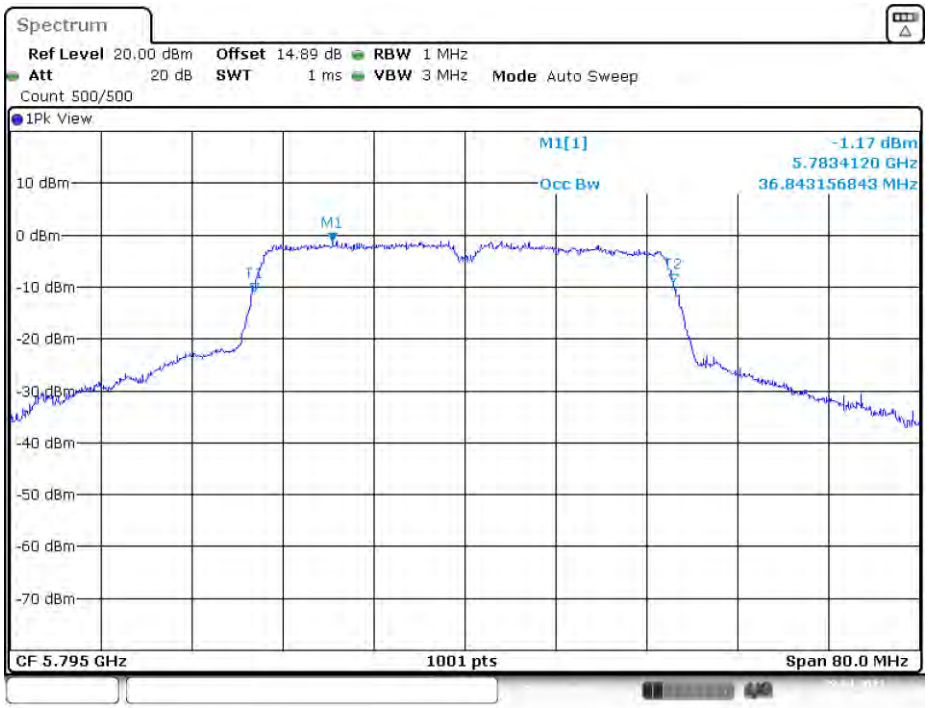
802.11ac20 mode, 99% Occupied Bandwidth, 5785 MHz

802.11ac20 mode, 99% Occupied Bandwidth, 5825 MHz



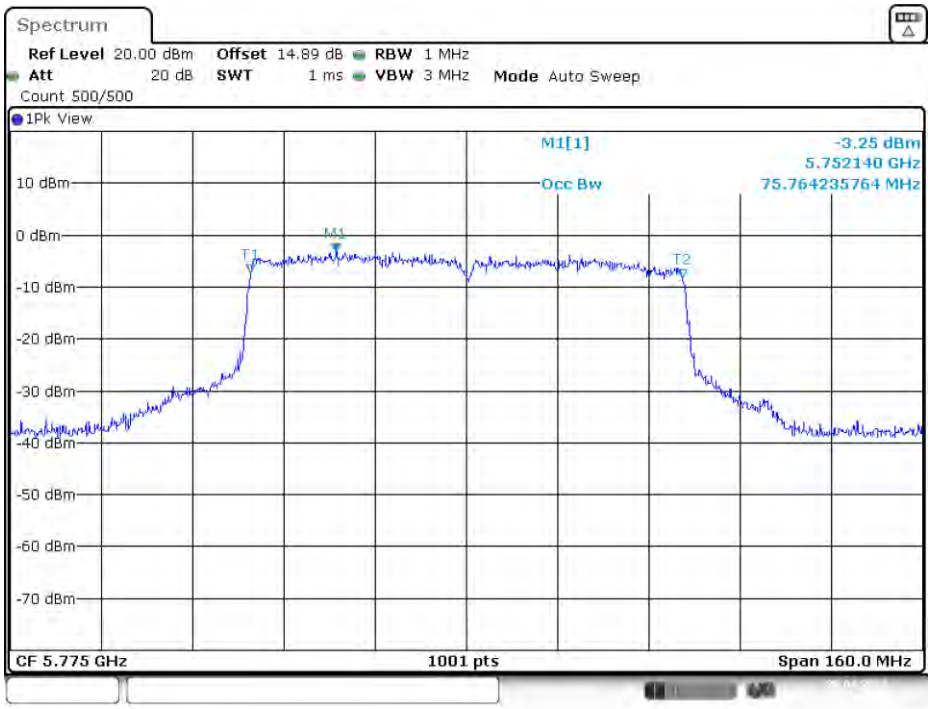
802.11ac40 mode, 99% Occupied Bandwidth, 5755 MHz

802.11ac40 mode, 99% Occupied Bandwidth, 5795 MHz



Date: 28.APR.2021 14:54:02

802.11ac80 mode, 99% Occupied Bandwidth, 5775 MHz



Date: 28.APR.2021 15:11:54

FCC §15.407(a) (1) (3) – CONDUCTED TRANSMITTER OUTPUT POWER

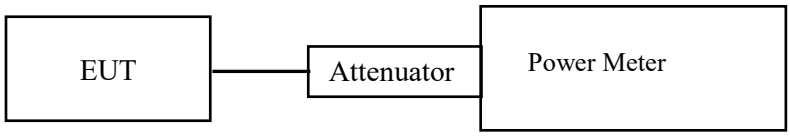
Applicable Standard

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Charley Lin on 2021-04-28.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the following tables.

5150 MHz – 5250 MHz

Frequency (MHz)	Conducted Output Average Power (dBm)	Limit (dBm)
802.11a		
5180	11.92	24
5200	12.07	
5240	12.46	
802.11n20		
5180	11.92	24
5200	12.02	
5240	12.46	
802.11n40		
5190	10.53	24
5230	10.89	
802.11ac20		
5180	12.13	24
5200	12.19	
5240	12.63	
802.11ac40		
5190	10.81	24
5230	11.1	
802.11ac80		
5210	10.36	24

5725 MHz – 5825 MHz:

Frequency (MHz)	Conducted Output Average Power (dBm)	Limit (dBm)
802.11a		
5745	12.54	30
5785	11.57	
5825	10.43	
802.11n20		
5745	12.41	30
5785	9.82	
5825	10.4	
802.11n40		
5755	10.84	30
5795	9.71	
802.11ac20		
5745	12.65	30
5785	11.36	
5825	10.5	
802.11ac40		
5755	11.03	30
5795	10.04	
802.11ac80		
5775	9.99	30

Note: 1) The Duty cycle factor had been calculated to result.
2) This product is used for client device.

FCC §15.407(a) (1) (3) - POWER SPECTRAL DENSITY

Applicable Standard

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW ≥ 1/T, where T is defined in section II.B.l.a).
b) Set VBW ≥ 3 RBW.
c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Charley Lin on 2021-04-28.

EUT operation mode: Transmitting

Test Result: Pass

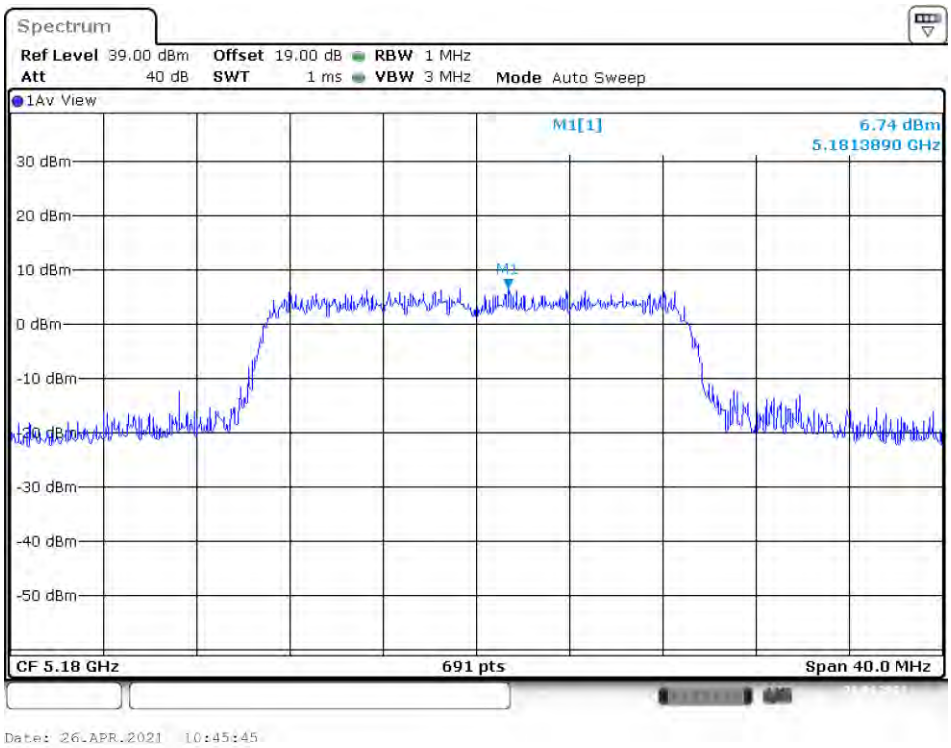
Please refer to the following tables and plots.

5150 – 5250 MHz

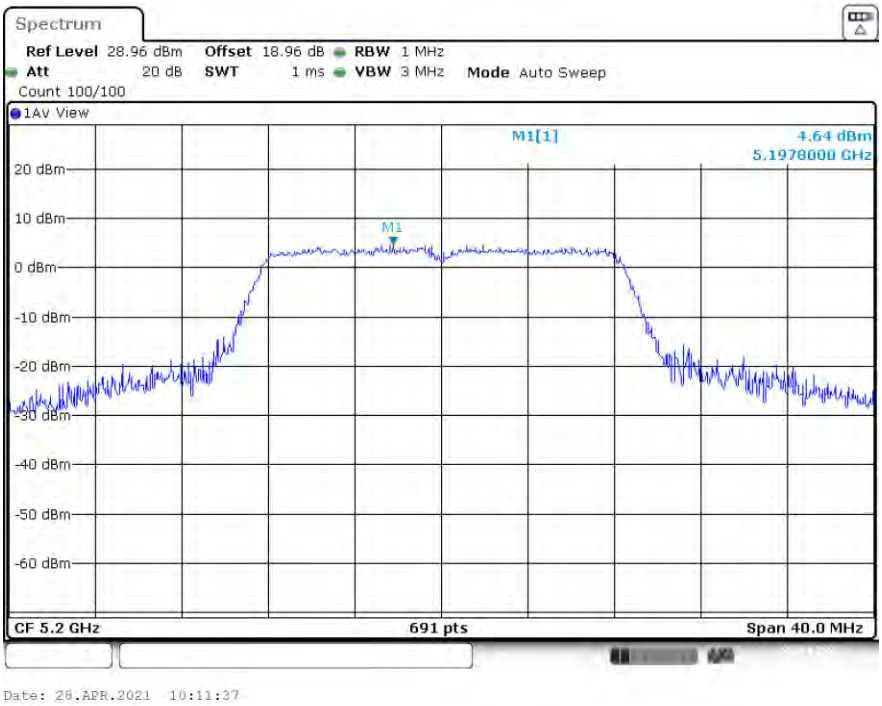
Frequency (MHz)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
802.11a		
5180	6.74	11
5200	4.64	
5240	5.17	
802.11n20		
5180	5.54	11
5200	5.72	
5240	6.25	
802.11n40		
5190	2.59	11
5230	2.97	
802.11ac20		
5180	5.57	11
5200	5.19	
5240	5.18	
802.11ac40		
5190	1.94	11
5230	2.88	
802.11ac80		
5210	0.15	11

Note: The Duty cycle factor had been calculated to result.

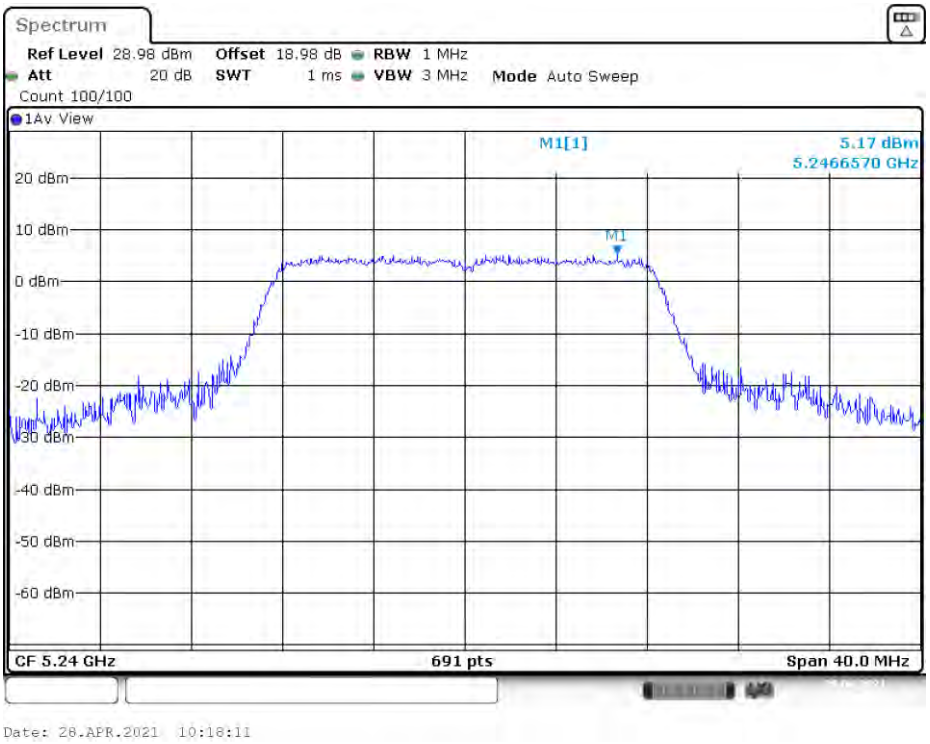
802.11a mode, Power Spectral Density, 5180 MHz



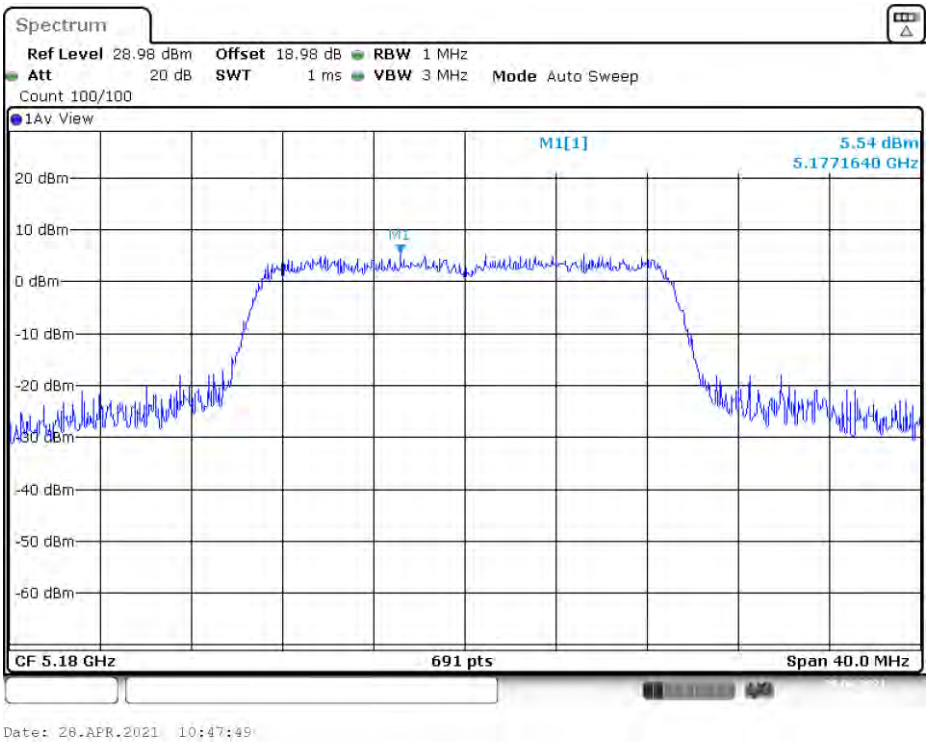
802.11a mode, Power Spectral Density, 5200 MHz



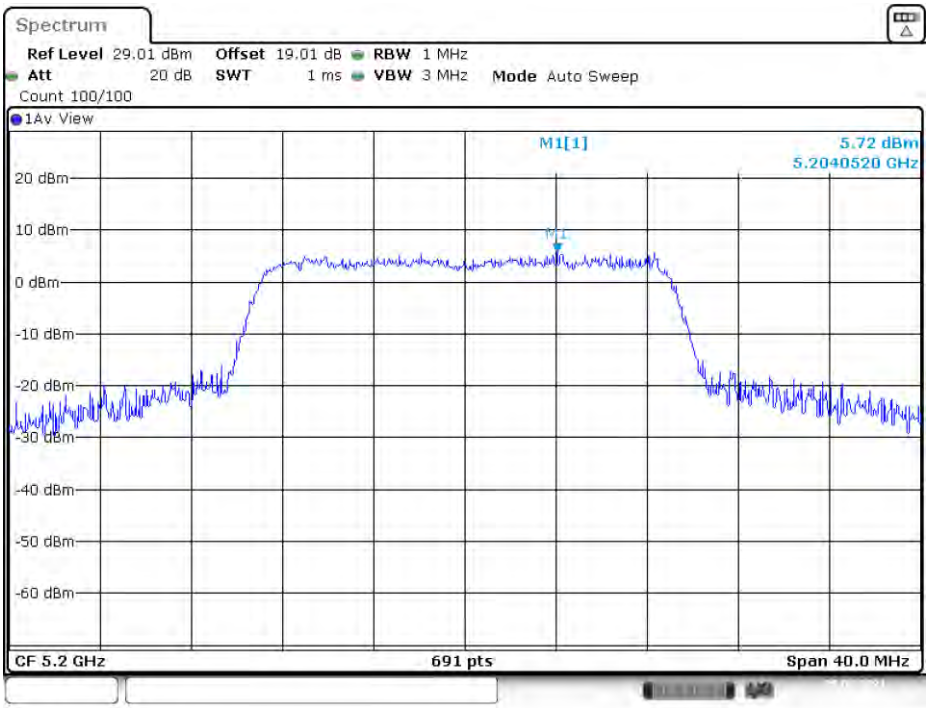
802.11a mode, Power Spectral Density, 5240 MHz



802.11n20 mode, Power Spectral Density, 5180 MHz



802.11n20 mode, Power Spectral Density, 5200 MHz



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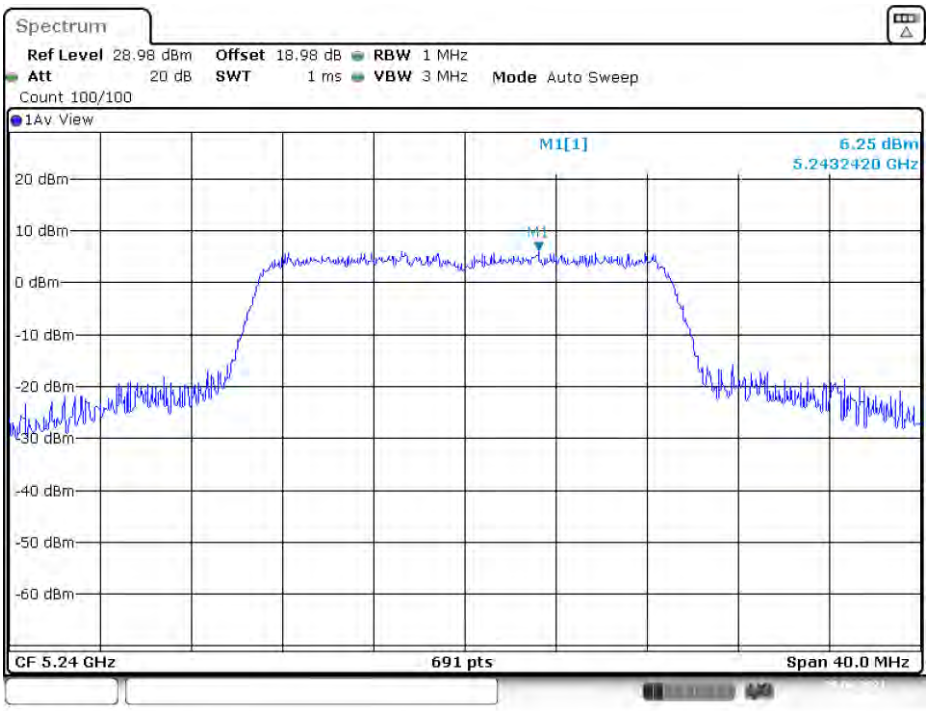
802.11n20 mode, Power Spectral Density, 5240 MHz



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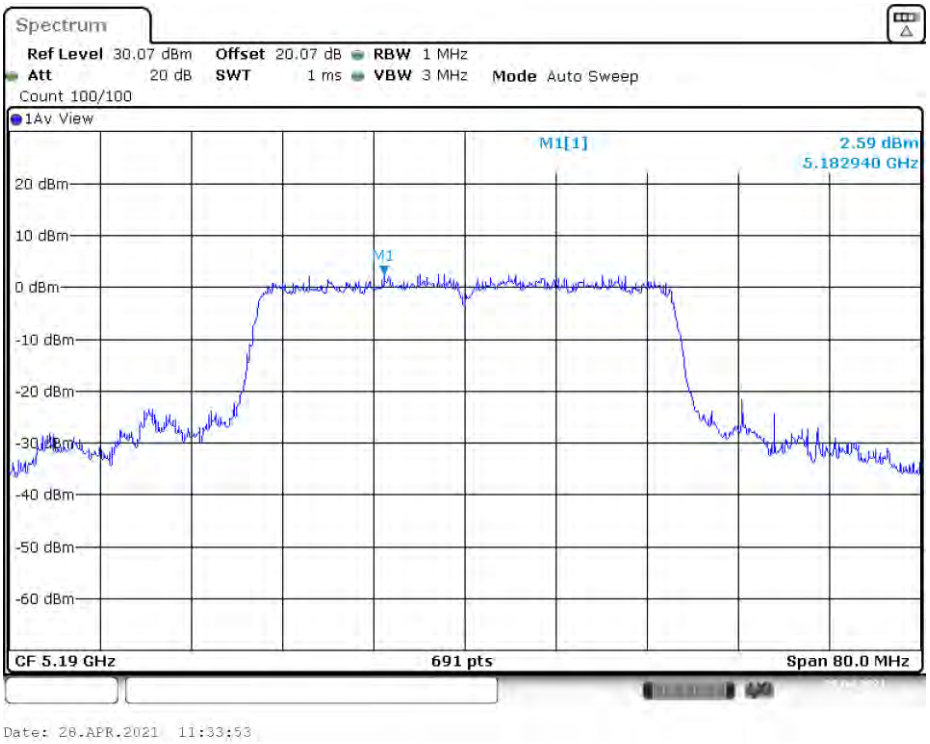
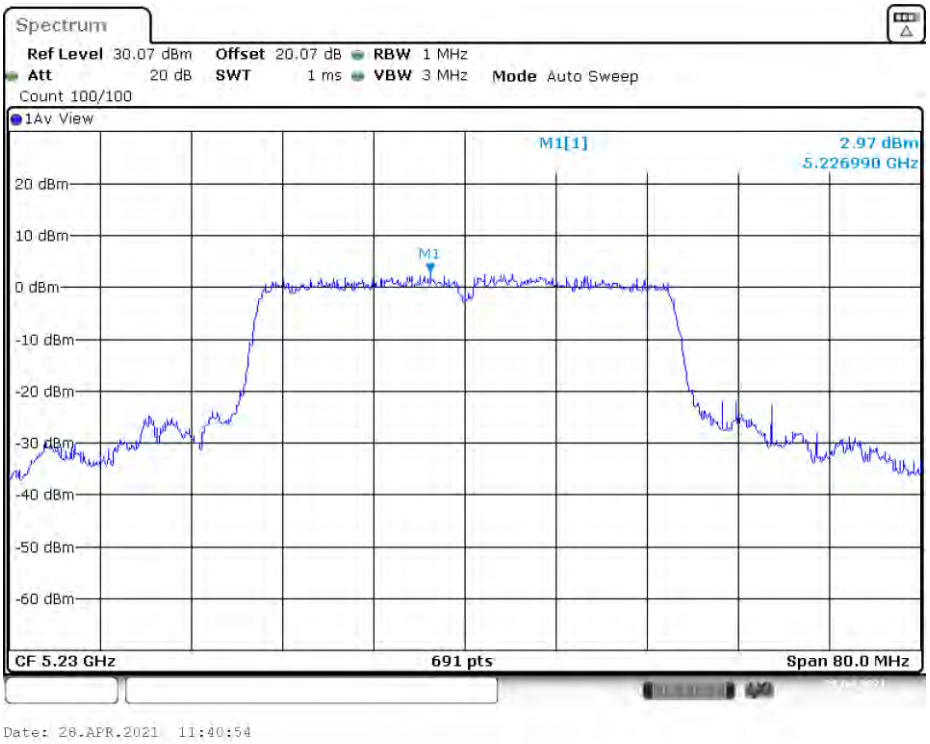
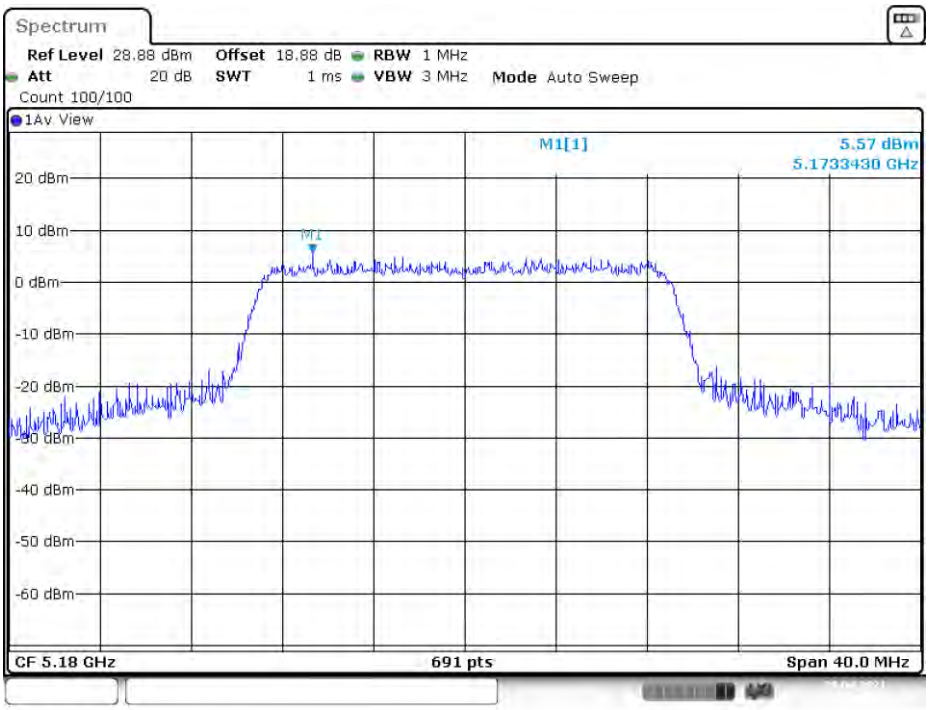
802.11n40 mode, Power Spectral Density, 5190 MHz



802.11n40 mode, Power Spectral Density, 5230 MHz



802.11ac20 mode, Power Spectral Density, 5180 MHz



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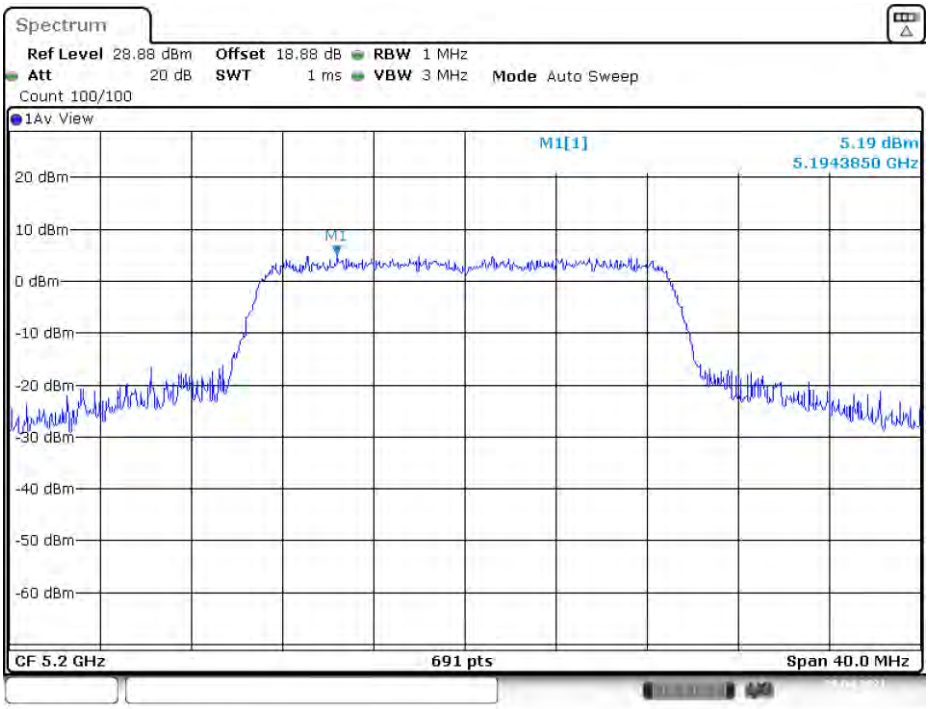
802. 11ac20 mode, Power Spectral Density, 5200 MHz



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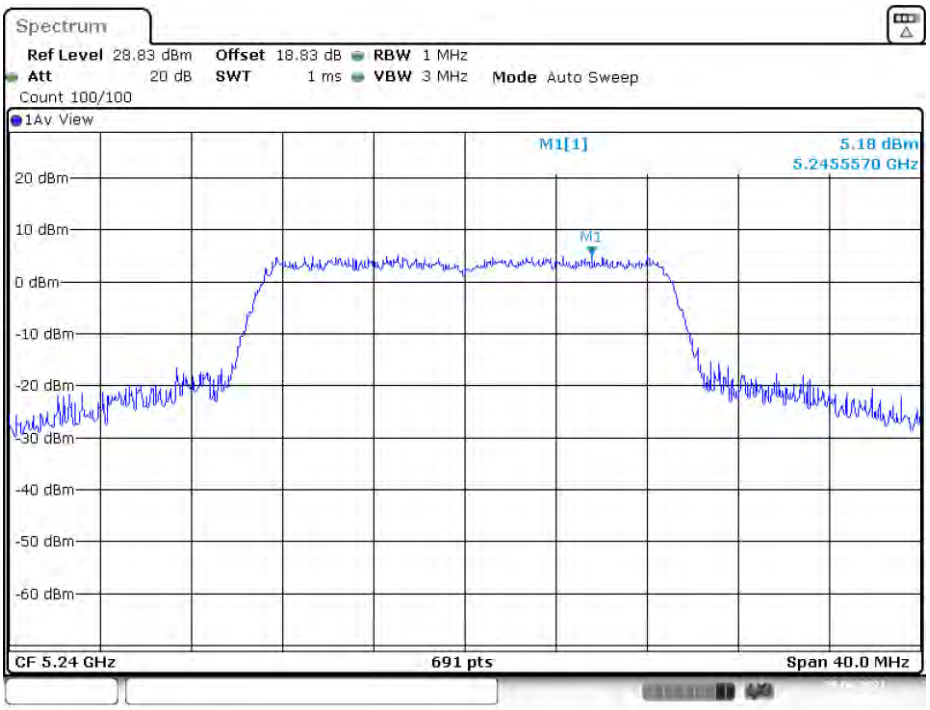
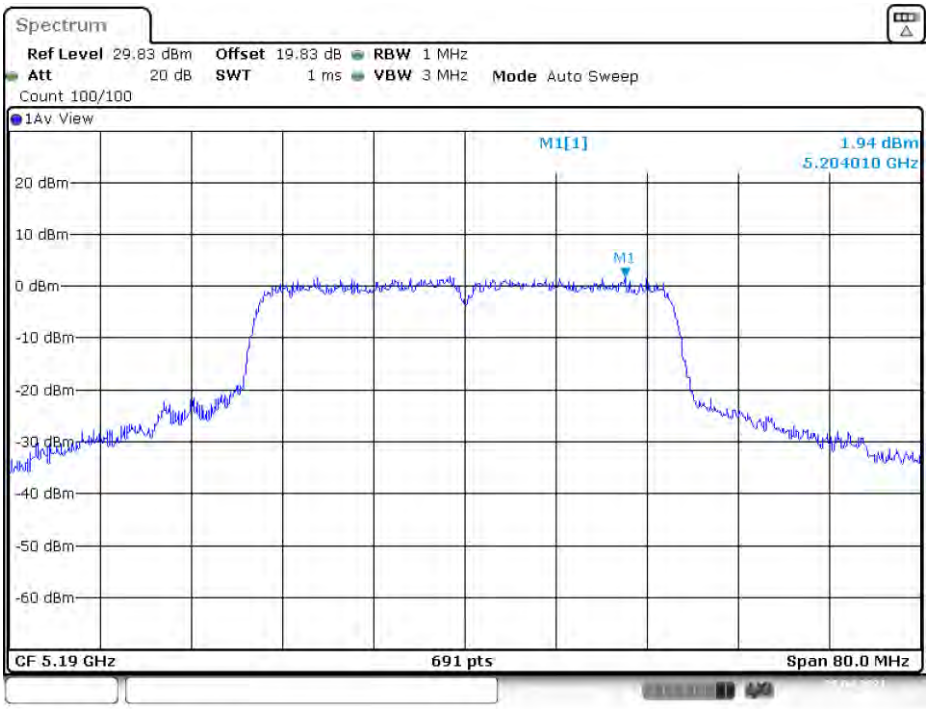
802. 11ac20 mode, Power Spectral Density, 5240 MHz



Date: 28.APR.2021 13:58:08

802.11ac40 mode, Pwer Spectral Density, 5190 MHz



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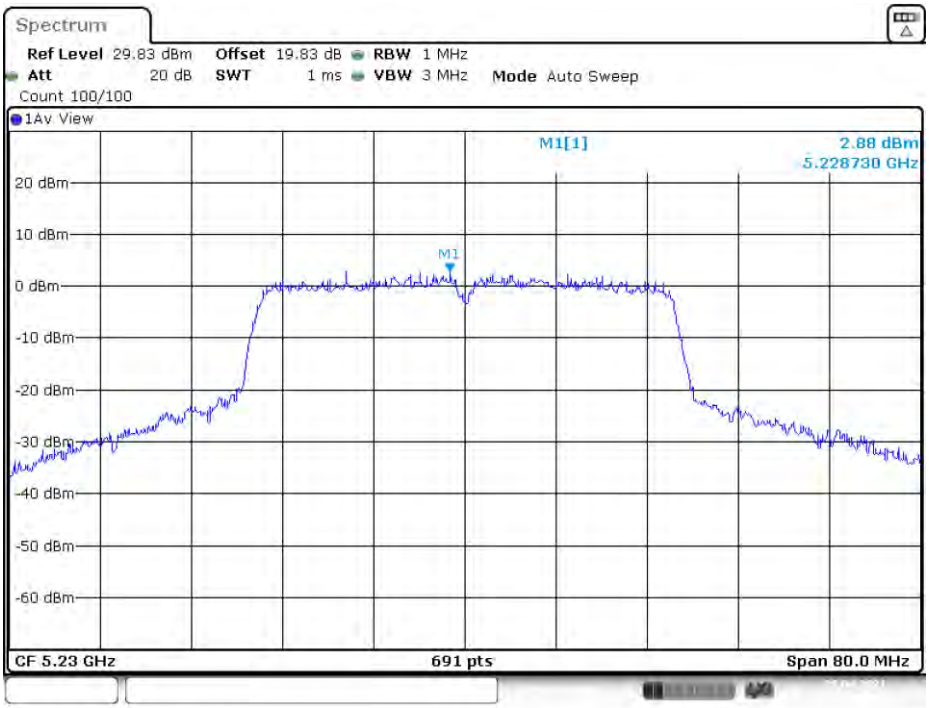
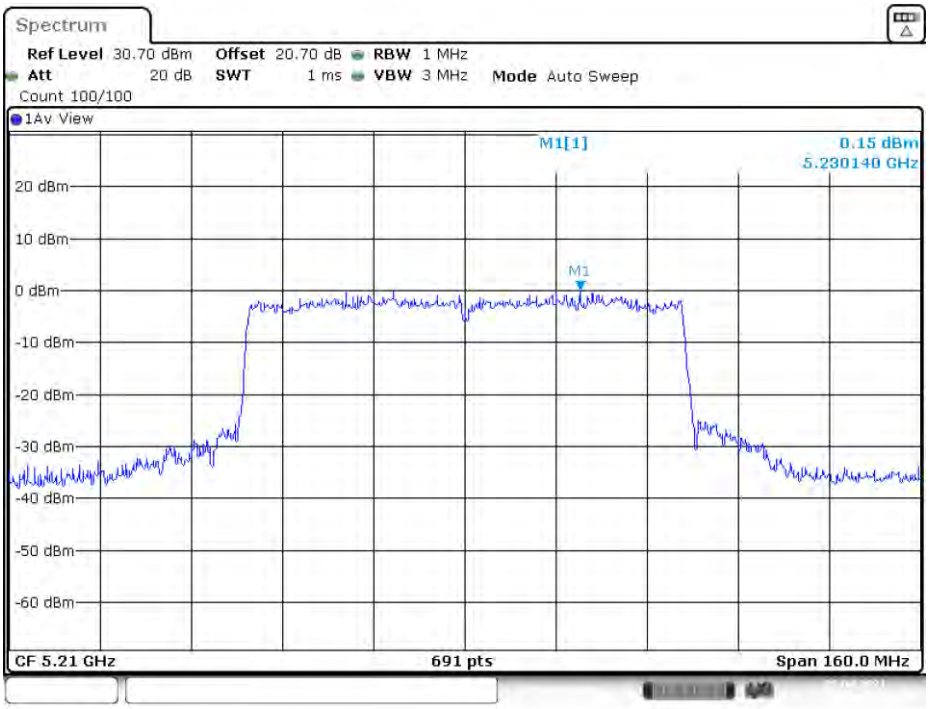
802.11ac40 mode, Power Spectral Density, 5230 MHz



Date: 28.APR.2021 14:38:09

802.11ac40 mode, Power Spectral Density, 5210 MHz



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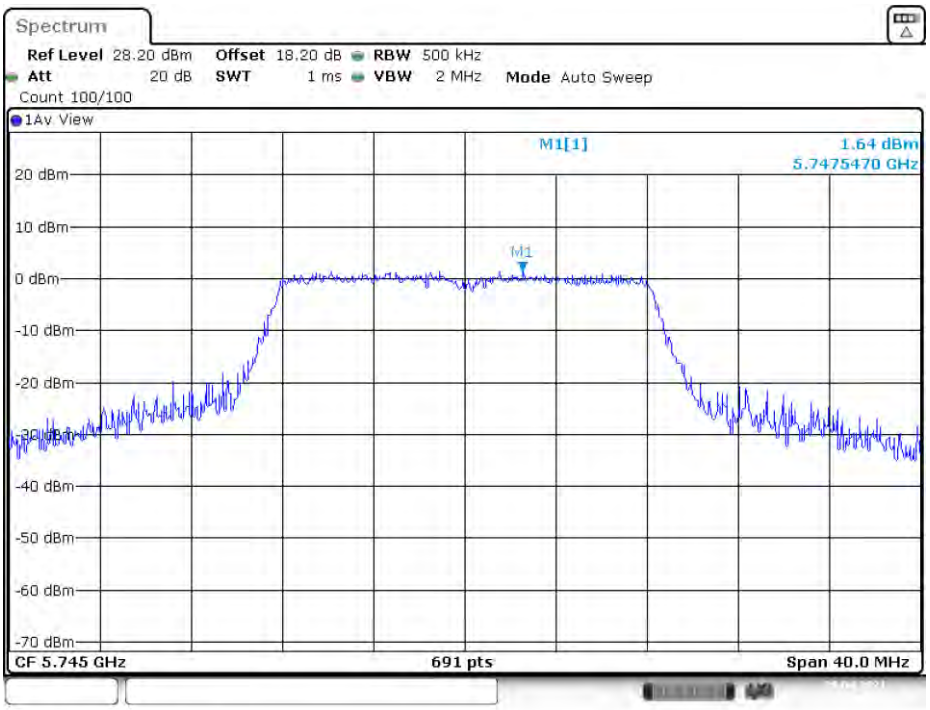
5745– 5825 MHz:

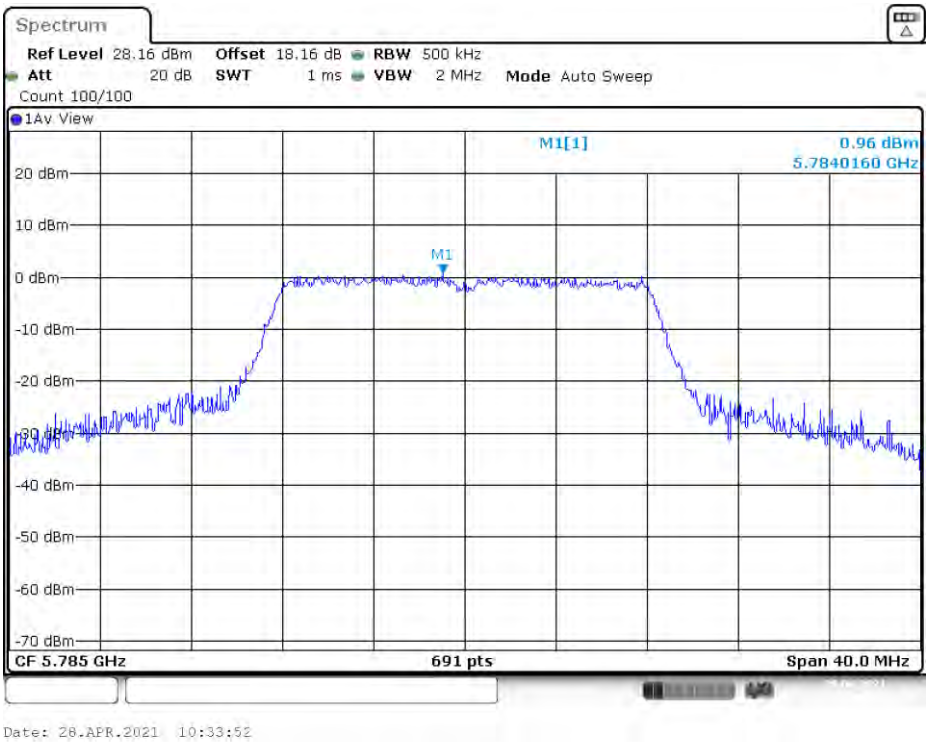
Frequency (MHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)
802.11a		
5475	1.64	30
5785	0.96	
5825	-0.29	
802.11n20		
5475	2.04	30
5785	1.08	
5825	-0.16	
802.11n40		
5755	0.17	30
5795	-1.7	
802.11ac20		
5475	2.04	30
5785	0.68	
5825	0.02	
802.11ac40		
5755	-0.76	30
5795	-2.16	
802.11ac80		
5775	-3.8	30

Note: The Duty cycle factor had been calculated to result.

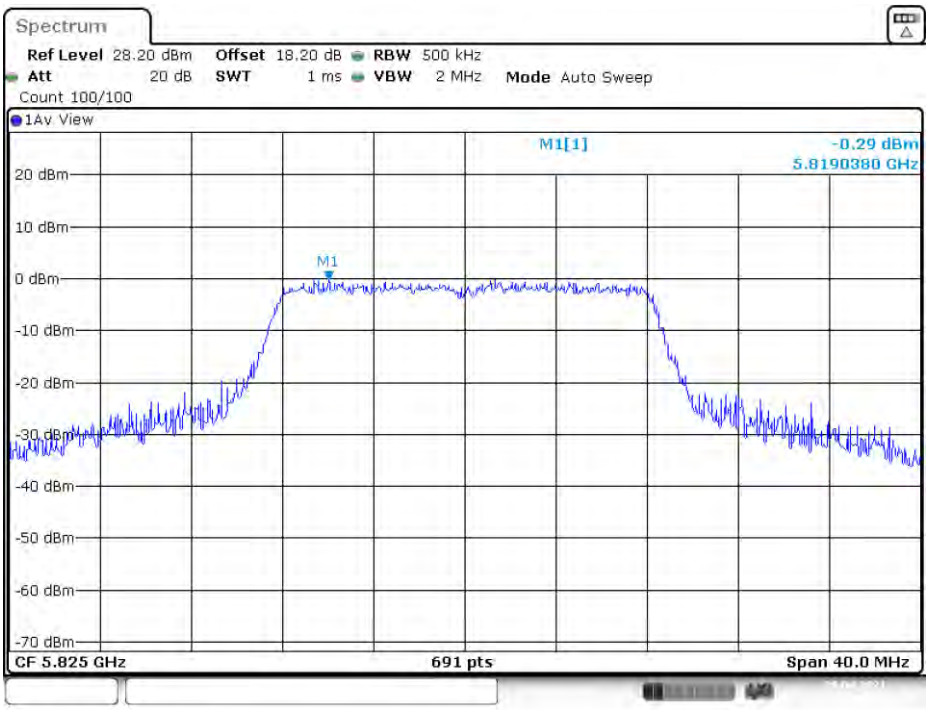
802.11a mode, Power Spectral Density, 5745 MHz



802.11a mode, Power Spectral Density, 5785 MHz

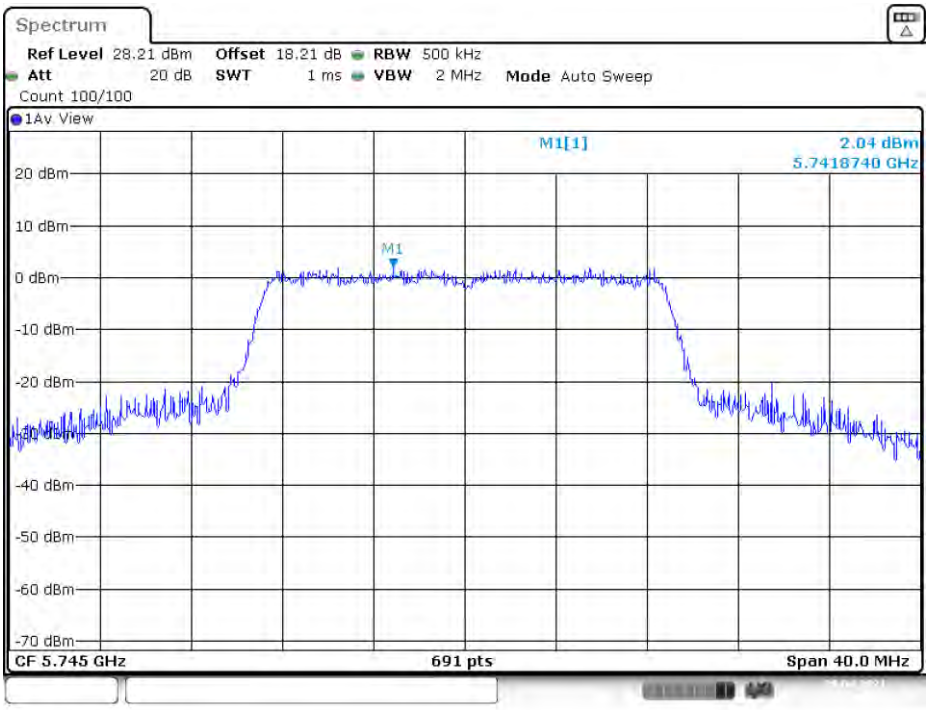


802.11a mode, Power Spectral Density, 5825 MHz



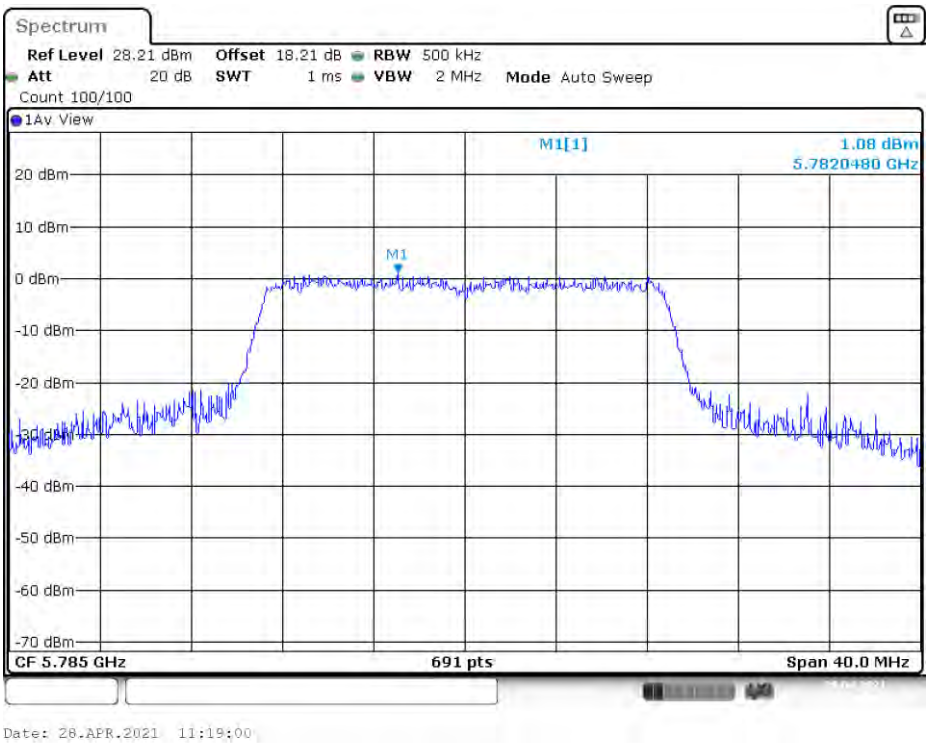
Date: 28.APR.2021 10:40:22

802.11n20 mode, Power Spectral Density, 5745 MHz



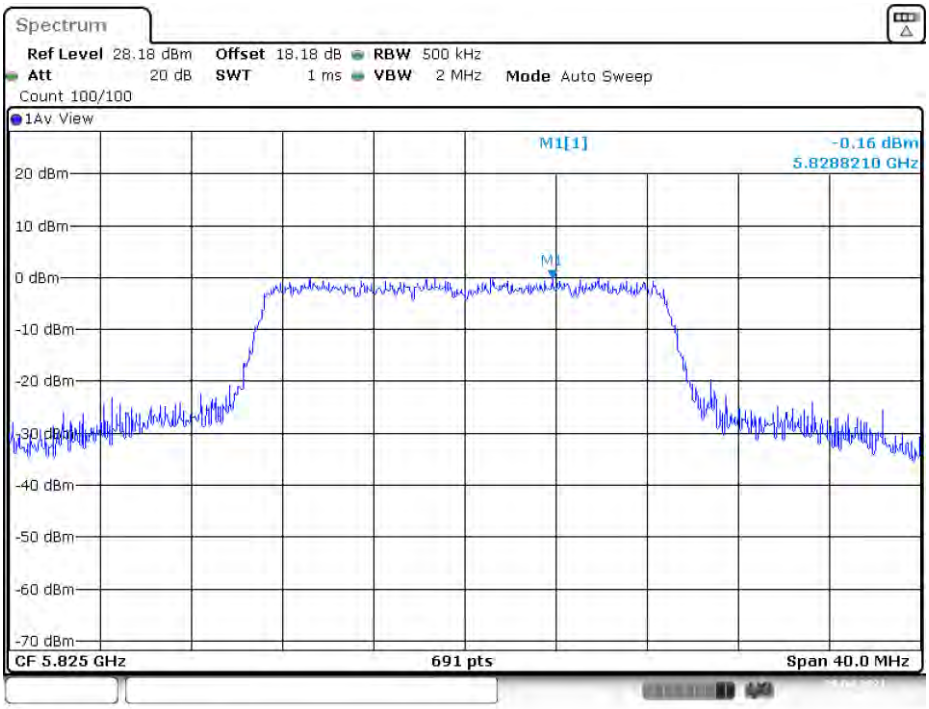
Date: 28.APR.2021 11:10:29

802.11n20 mode, Power Spectral Density, 5785 MHz



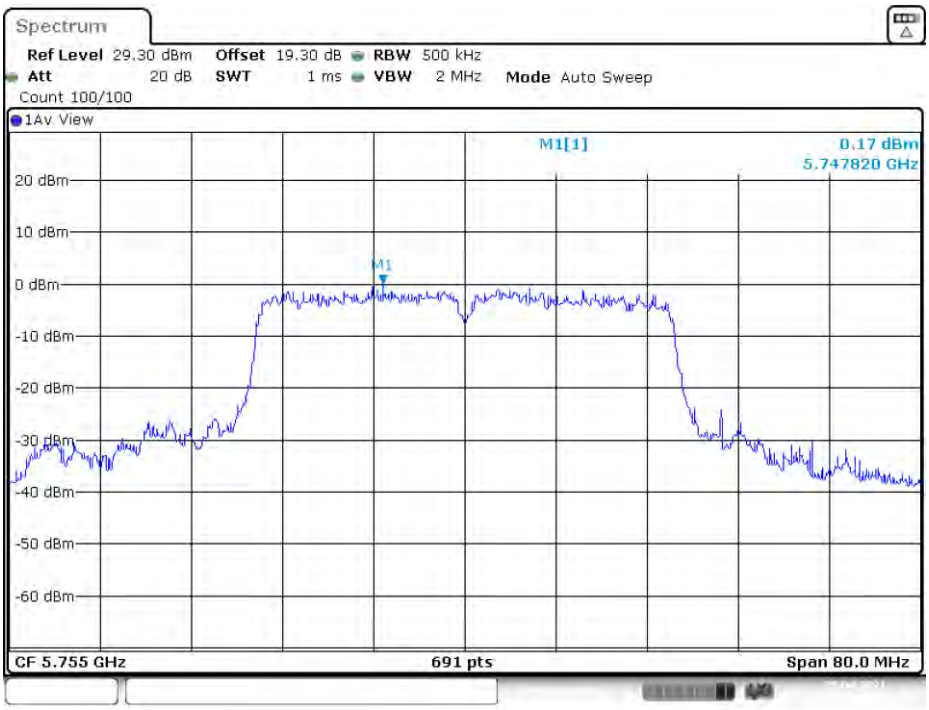
Date: 28.APR.2021 11:19:00

802.11n20 mode, Power Spectral Density, 5825 MHz



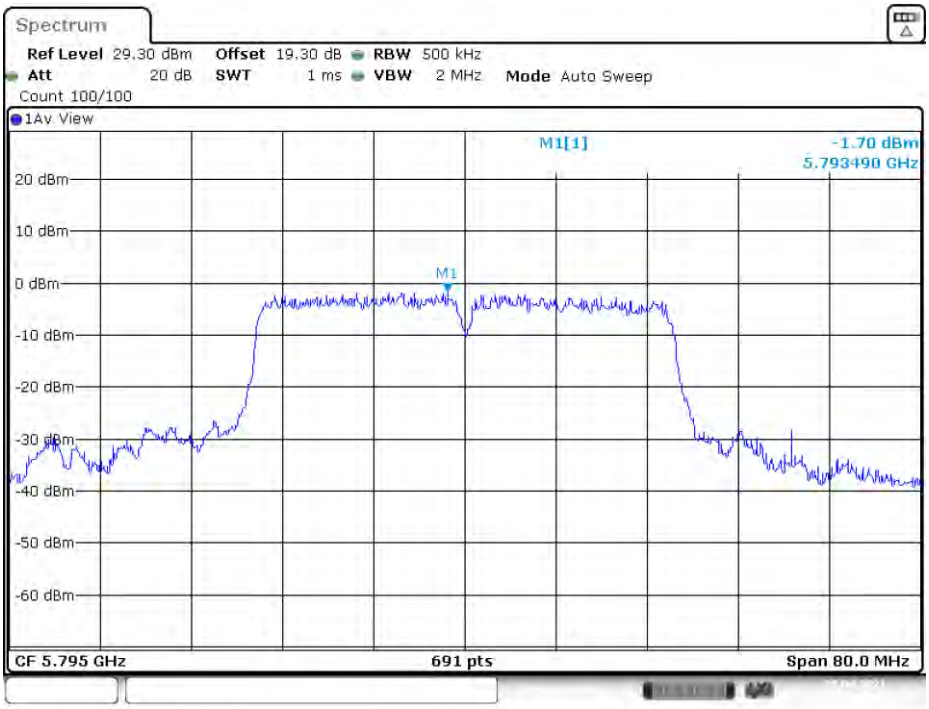
Date: 28.APR.2021 11:26:11

802.11n40 mode, Power Spectral Density, 5755 MHz



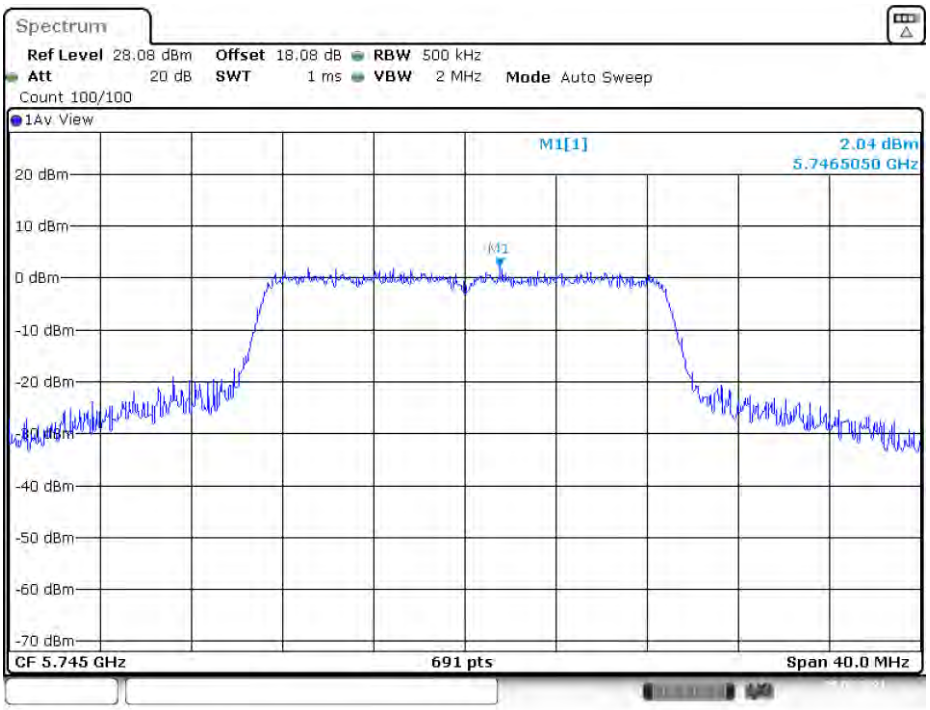
Date: 28.APR.2021 11:49:44

802.11n40 mode, Power Spectral Density, 5795 MHz

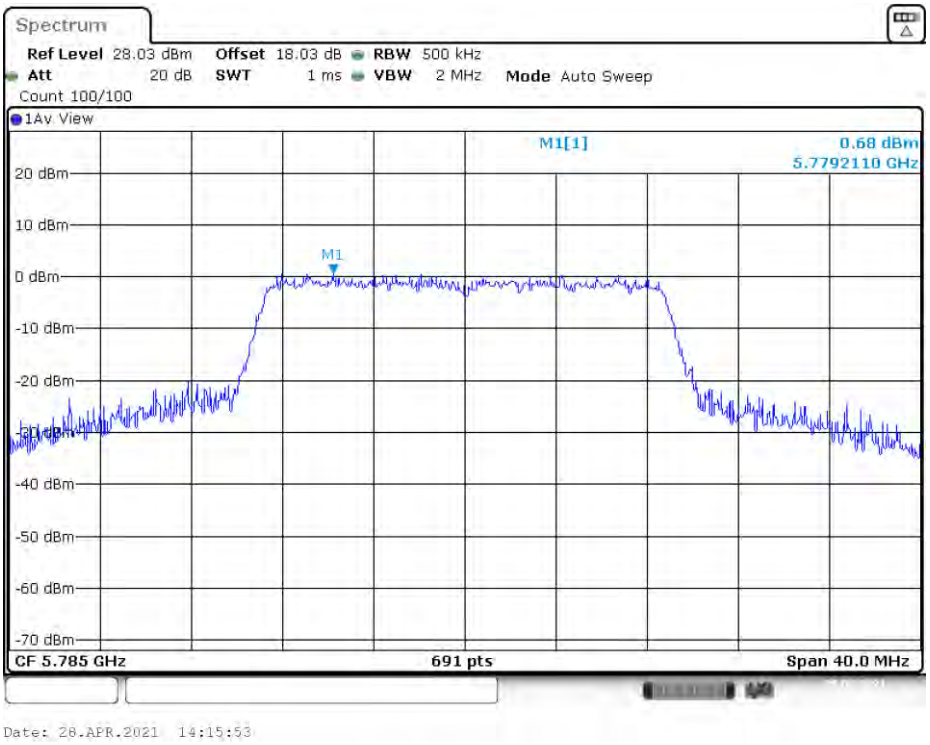


Date: 28.APR.2021 11:58:04

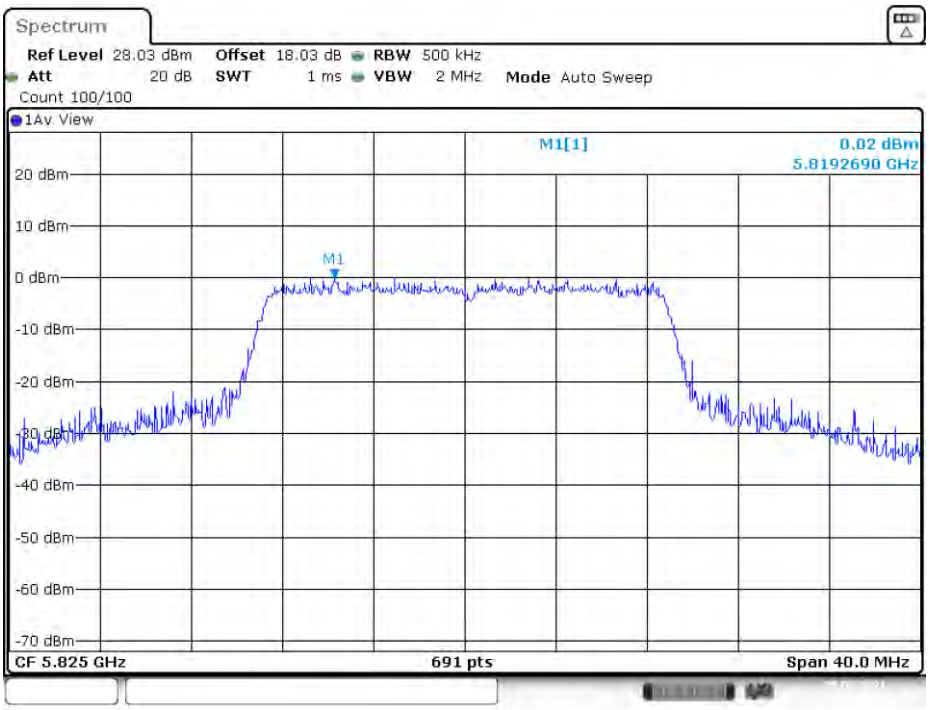
802.11ac20 mode, Power Spectral Density, 5745 MHz



802. 11ac20 mode, Power Spectral Density, 5785 MHz

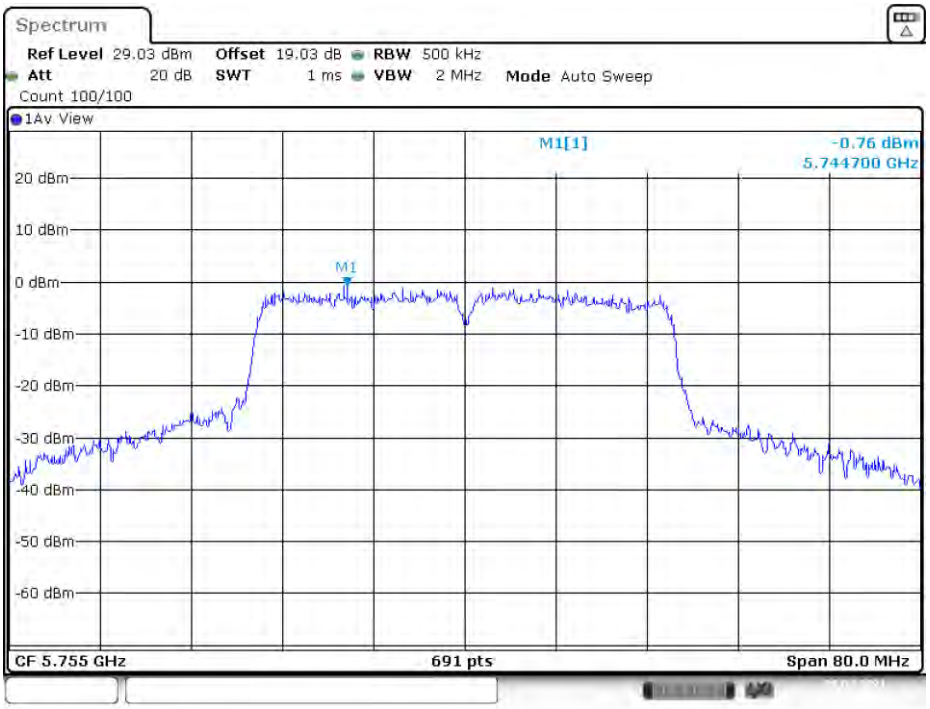


802. 11ac20 mode, Power Spectral Density, 5825 MHz



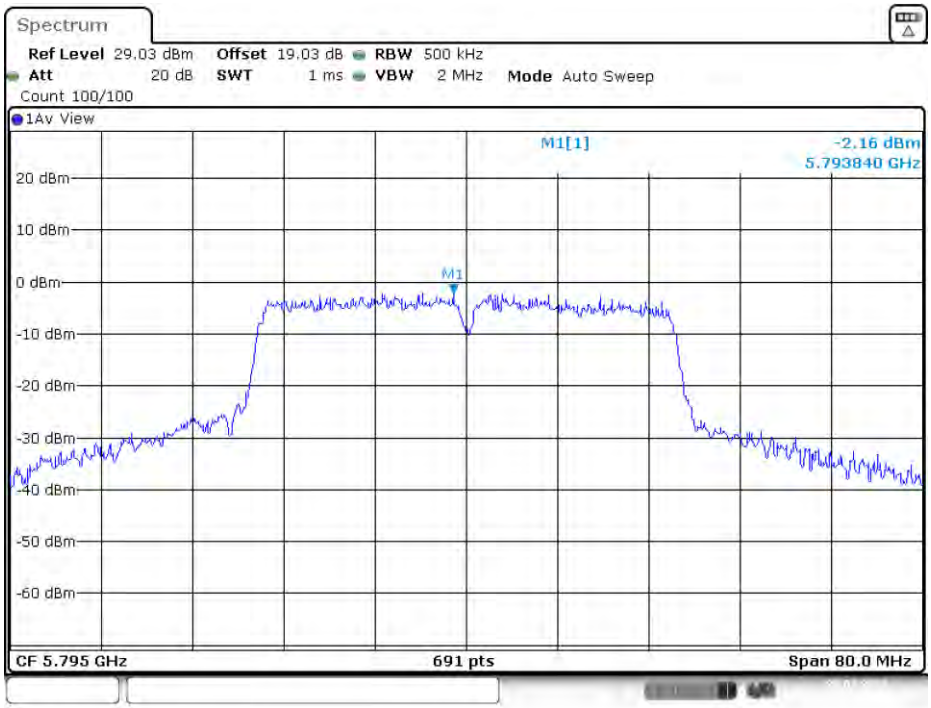
Date: 28.APR.2021 14:22:20

802.11ac40 mode, Power Spectral Density, 5755 MHz



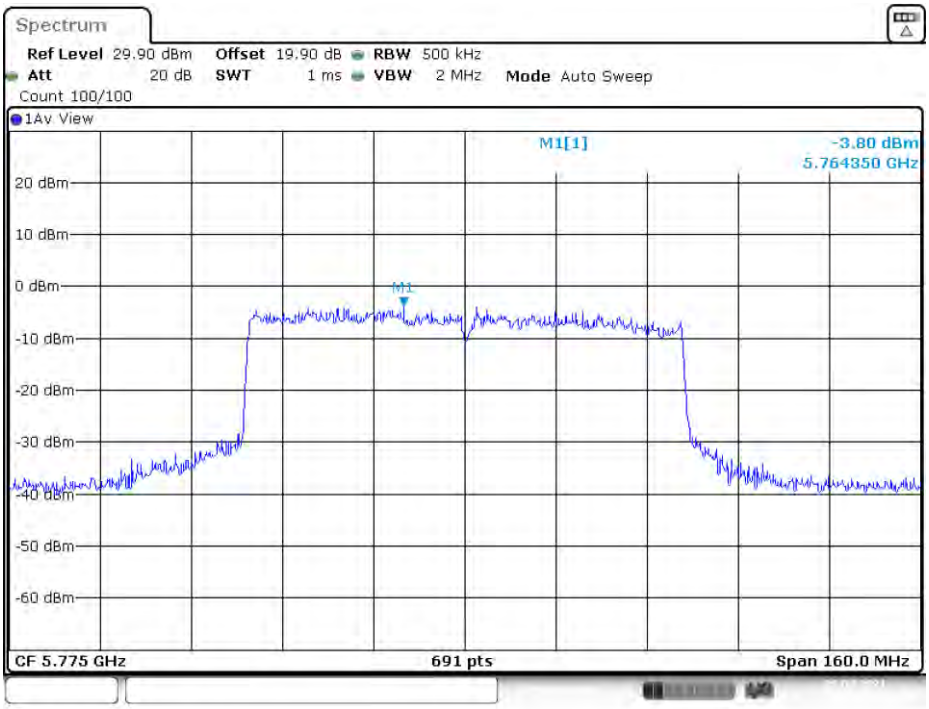
Date: 28.APR.2021 14:45:42

802.11ac40 mode, Power Spectral Density, 5795 MHz



Date: 28.APR.2021 14:54:49

802.11ac80 mode, Power Spectral Density, 5775 MHz



Date: 28.APR.2021 15:13:03

******* END OF REPORT *******