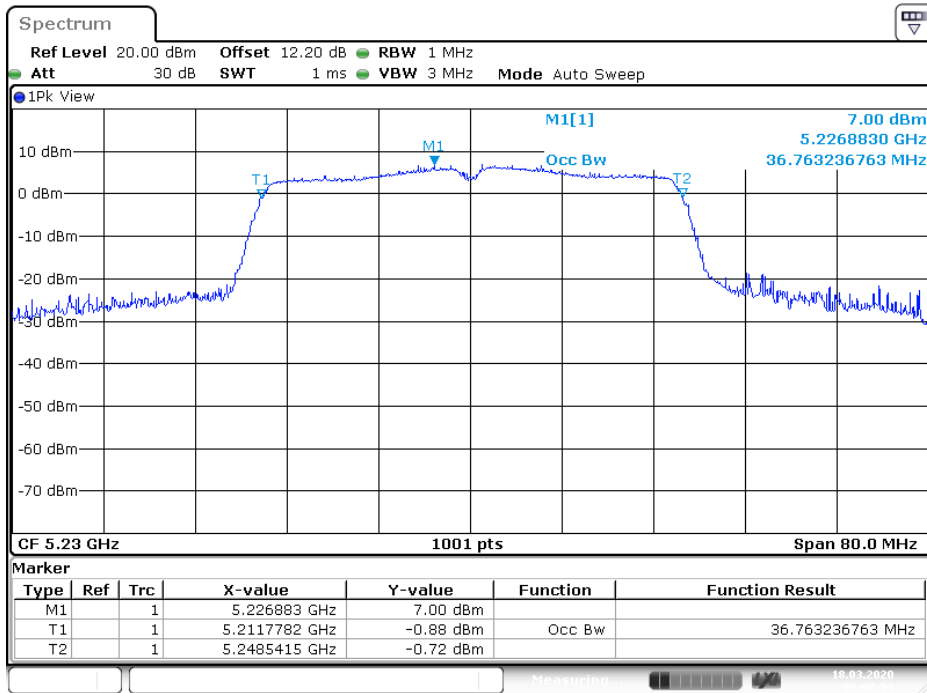
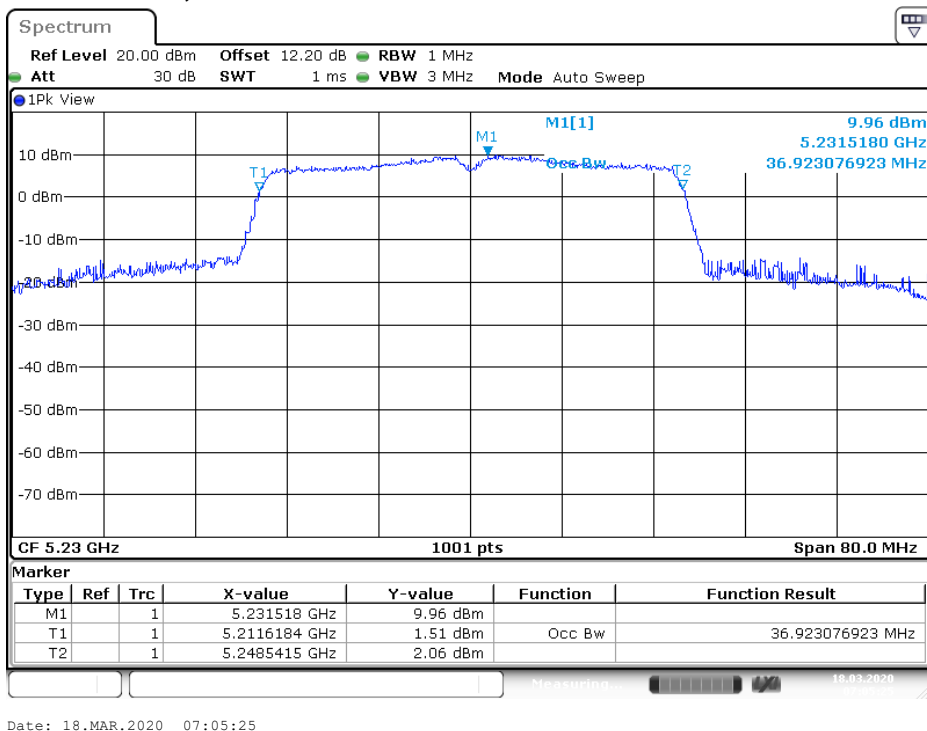
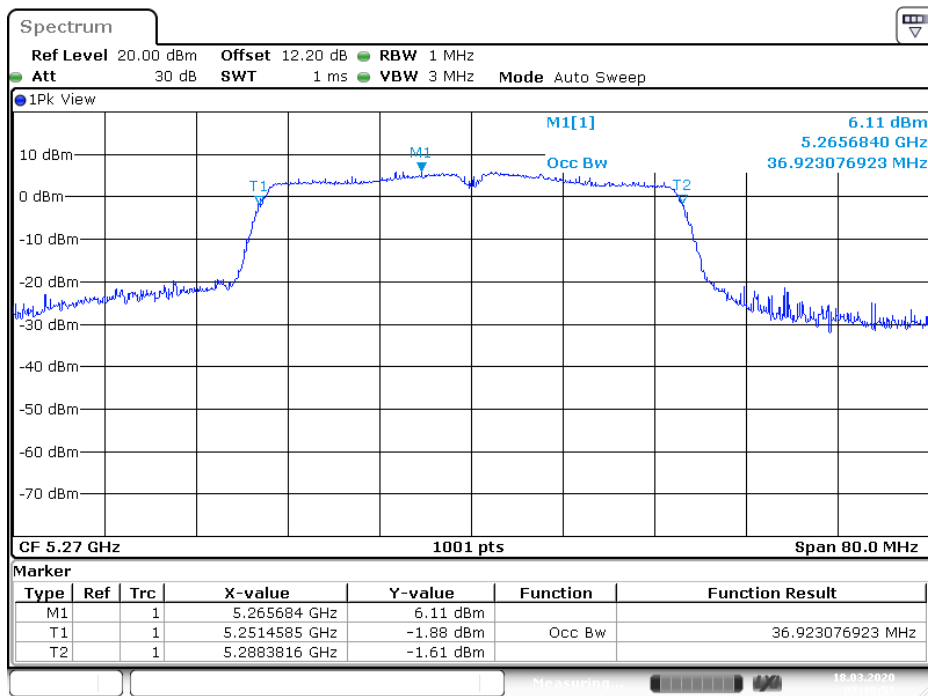
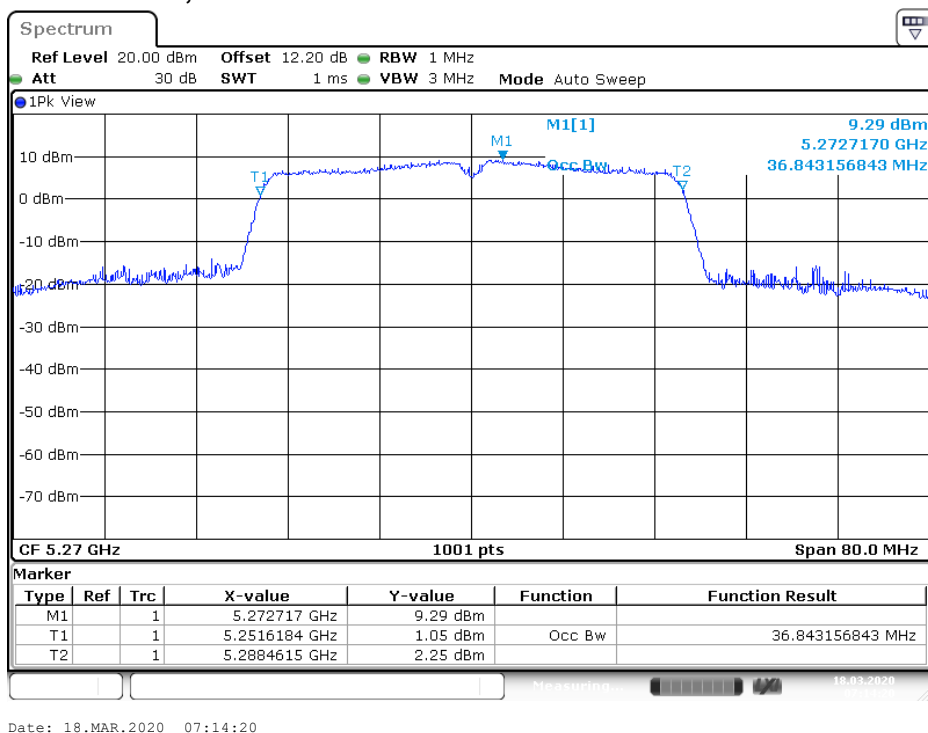
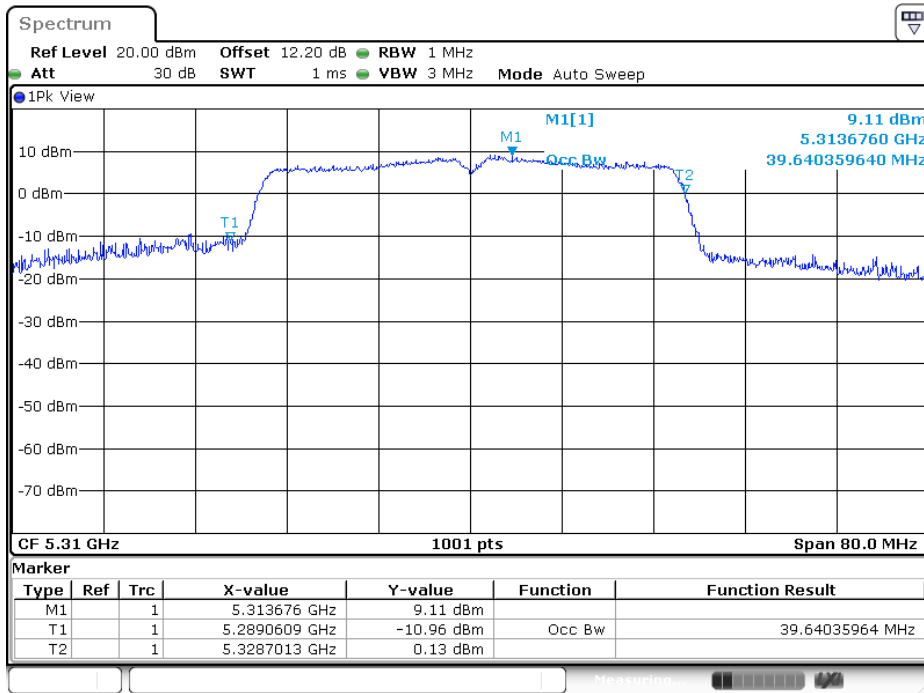
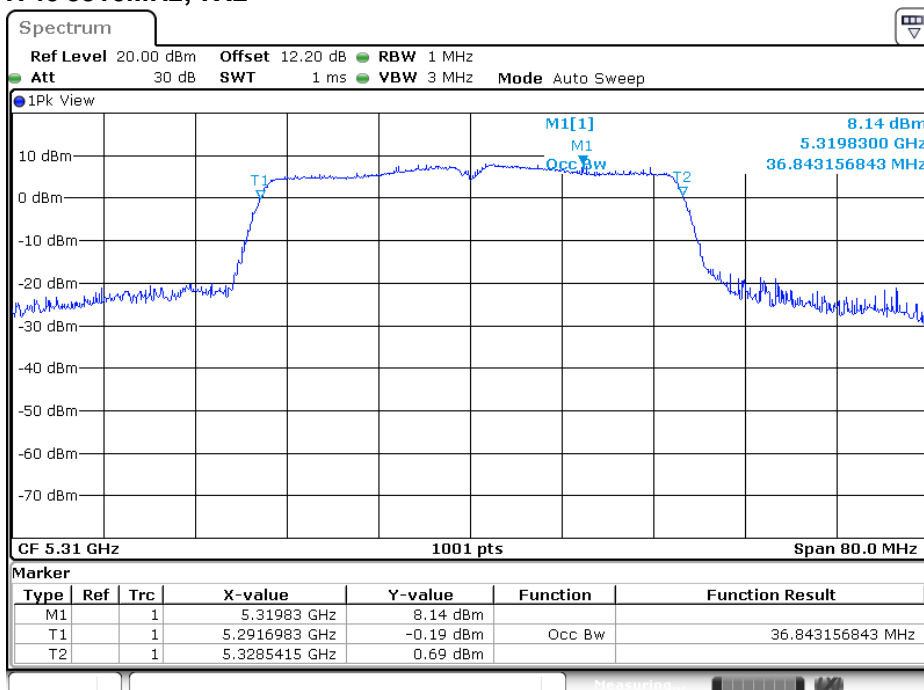


**802.11an HT40 5230MHz, TX1**

**802.11an HT40 5230MHz, TX2**


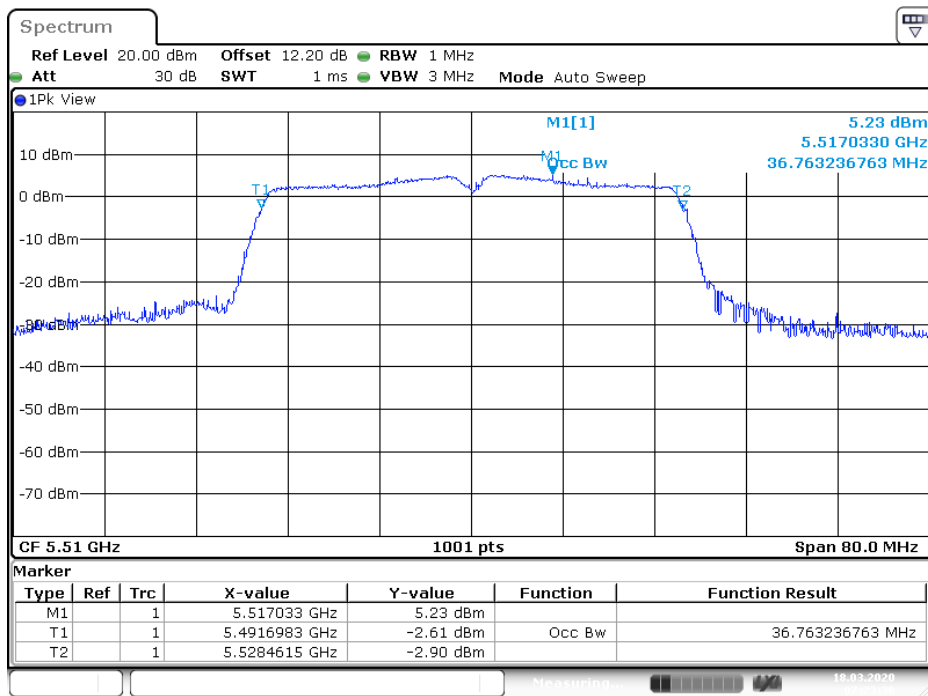
**802.11an HT40 5270MHz, TX1**

**802.11an HT40 5270MHz, TX2**


**802.11an HT40 5310MHz, TX1**


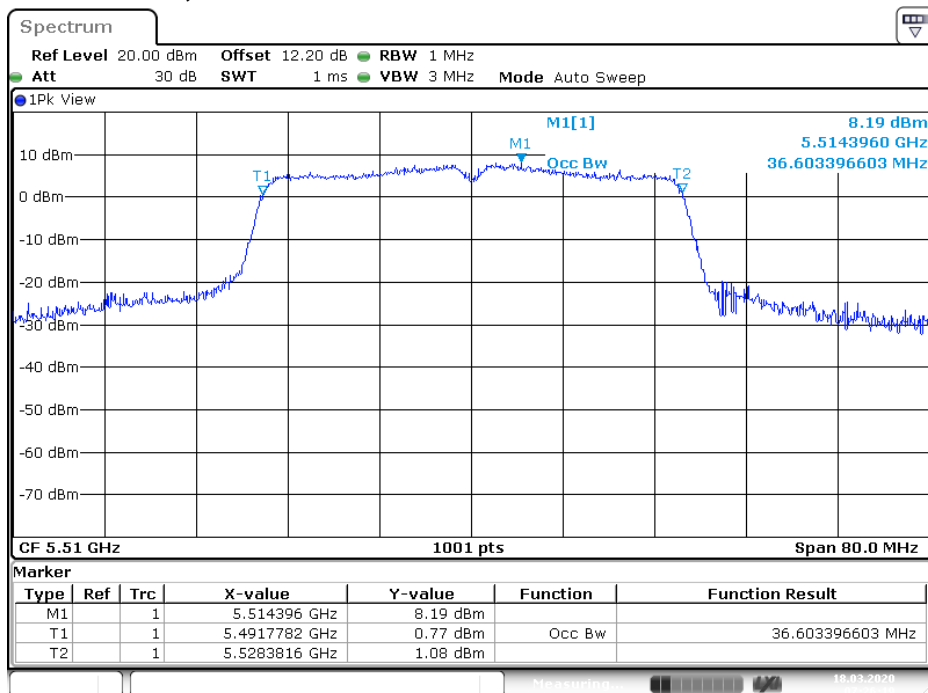
Date: 30.APR.2020 14:38:28

**802.11an HT40 5310MHz, TX2**


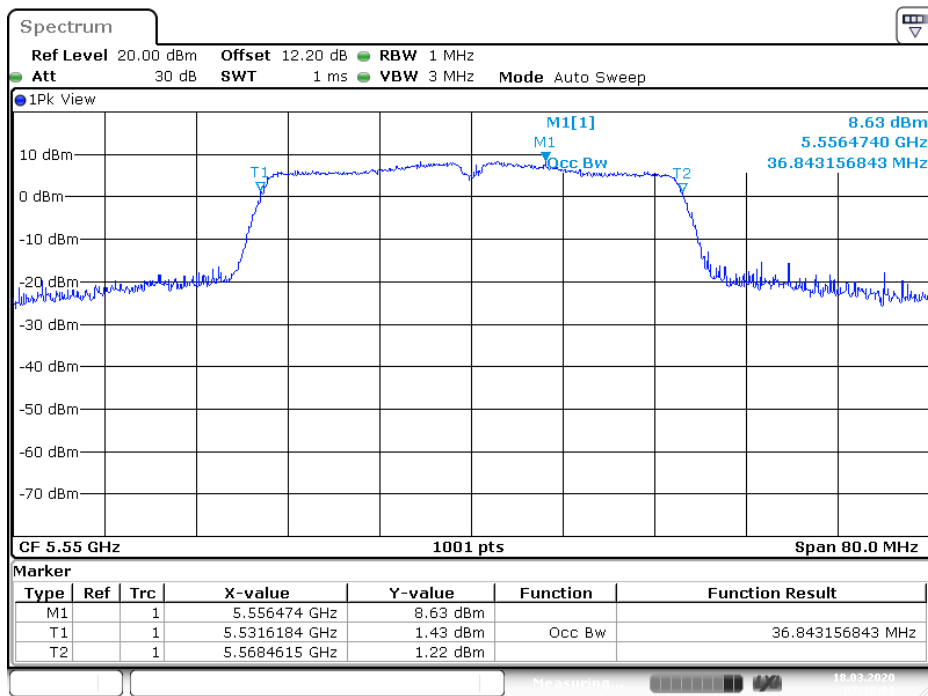
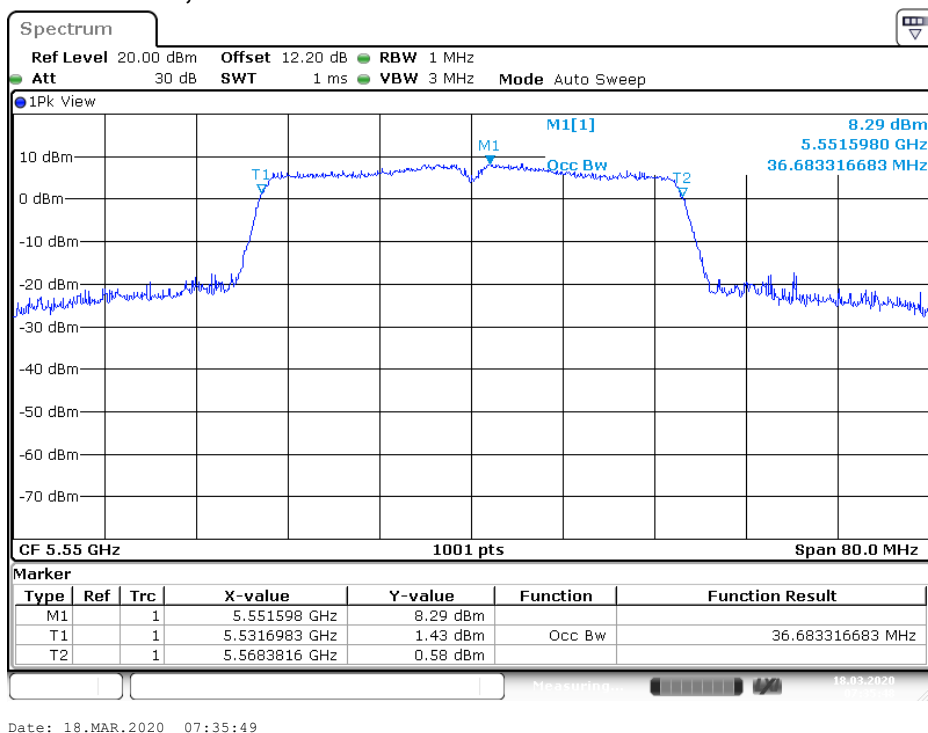
Date: 30.APR.2020 14:34:50

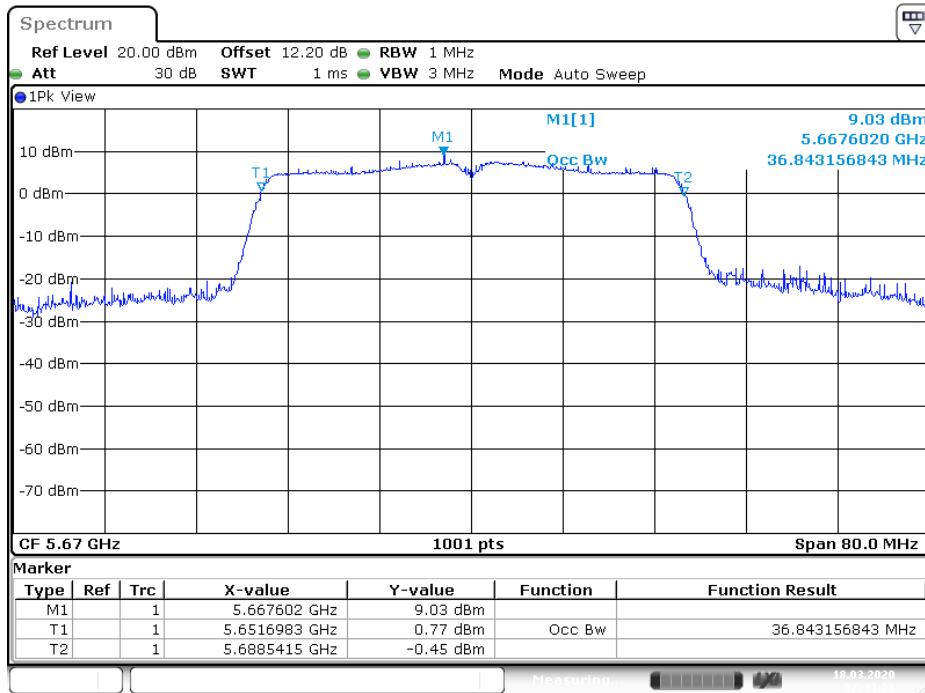
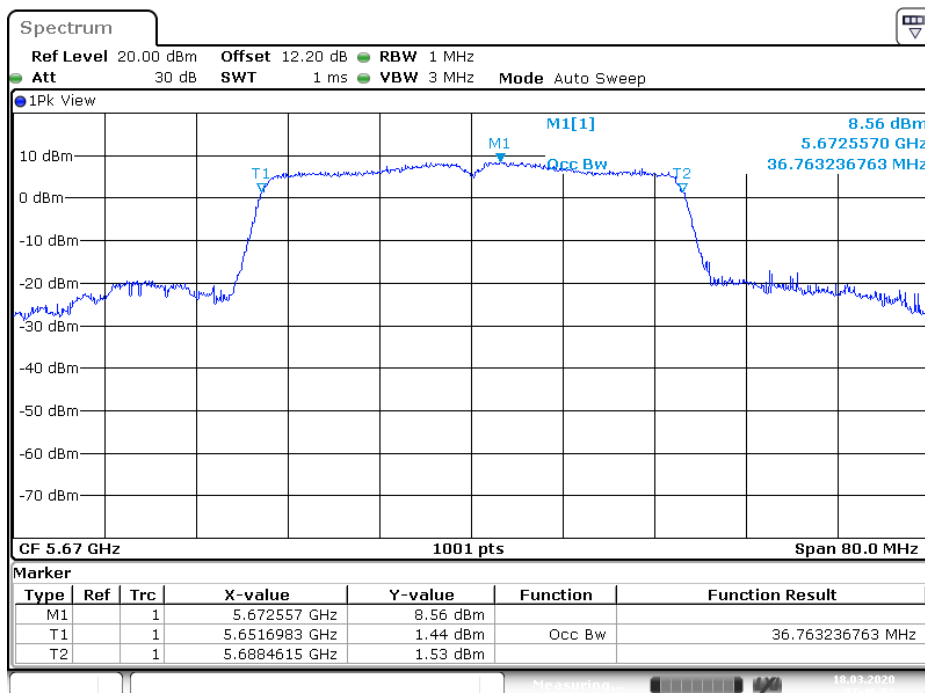
**802.11an HT40 5510MHz, TX1**


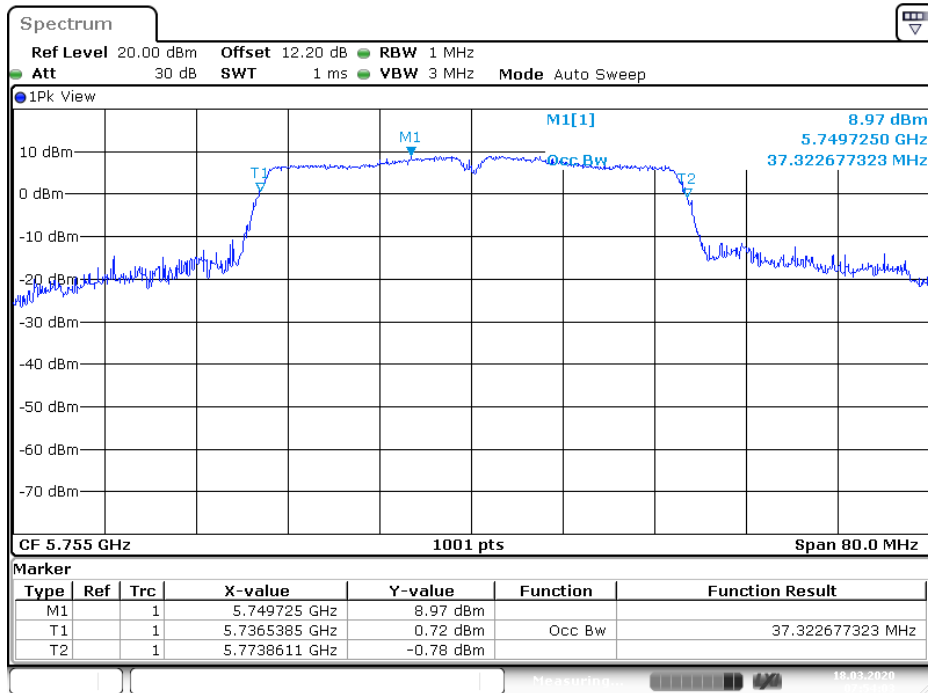
Date: 18.MAR.2020 07:23:36

**802.11an HT40 5510MHz, TX2**


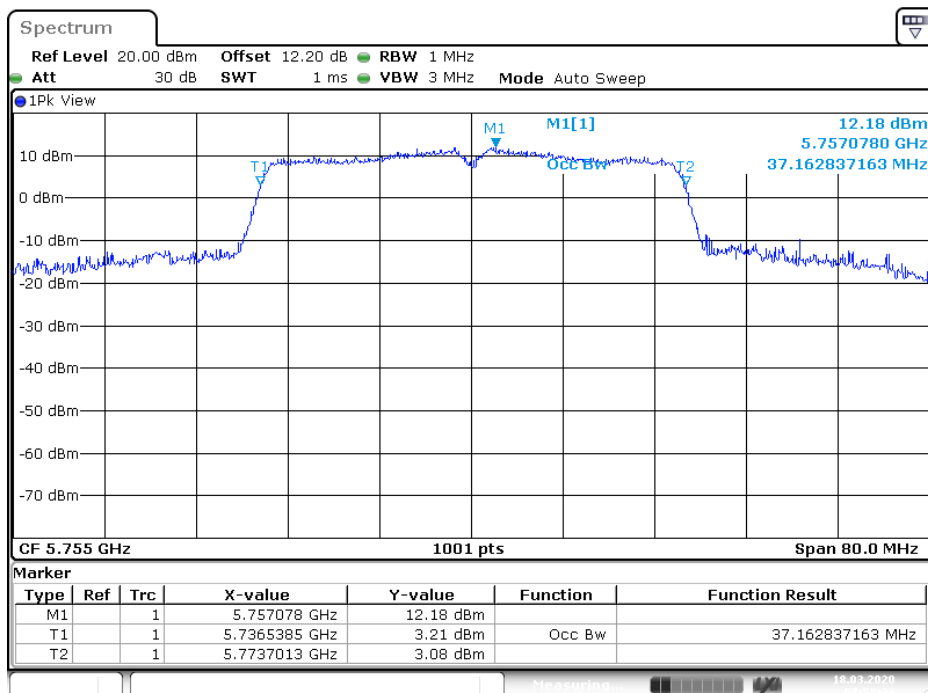
Date: 18.MAR.2020 07:26:19

**802.11an HT40 5550MHz, TX1**

**802.11an HT40 5550MHz, TX2**


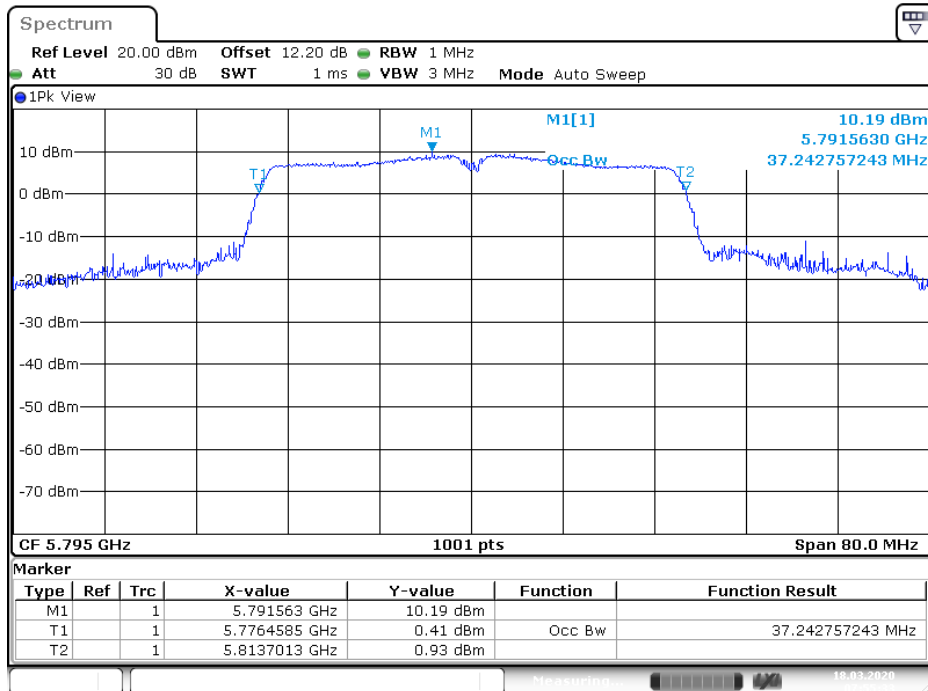
**802.11an HT40 5670MHz, TX1**

**802.11an HT40 5670MHz, TX2**


**802.11an HT40 5755MHz, TX1**


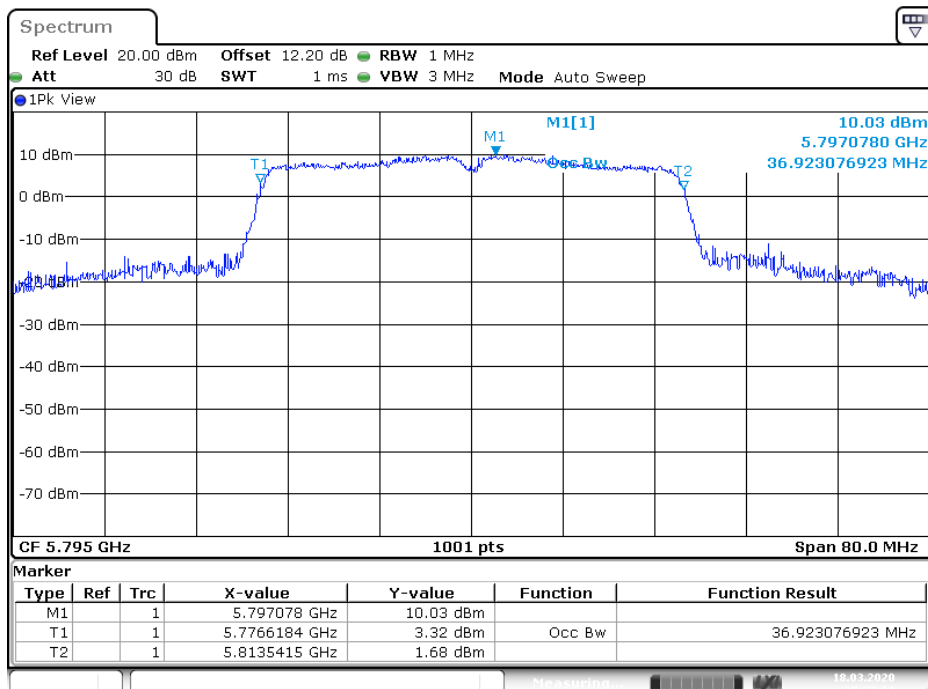
Date: 18.MAR.2020 07:54:04

**802.11an HT40 5755MHz, TX2**


Date: 18.MAR.2020 07:52:34

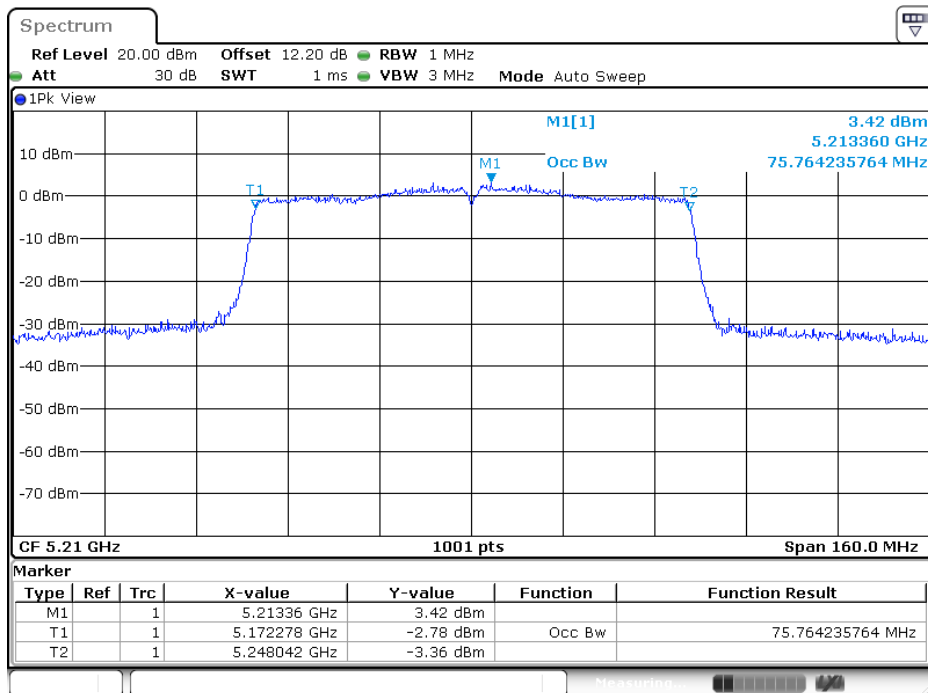
**802.11an HT40 5795MHz, TX1**


Date: 18.MAR.2020 07:55:34

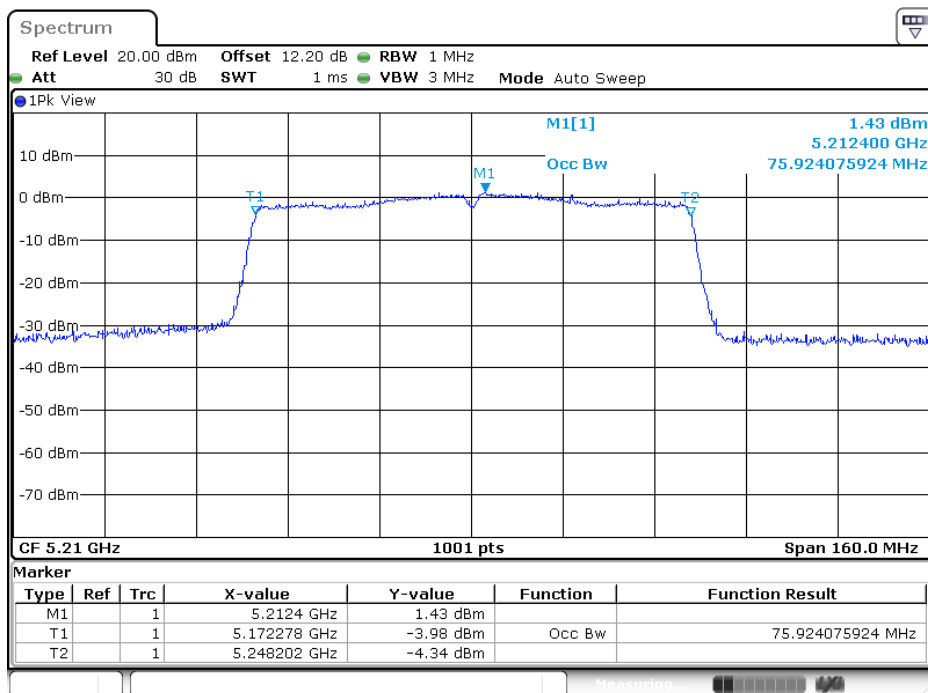
**802.11an HT40 5795MHz, TX2**


Date: 18.MAR.2020 07:57:02

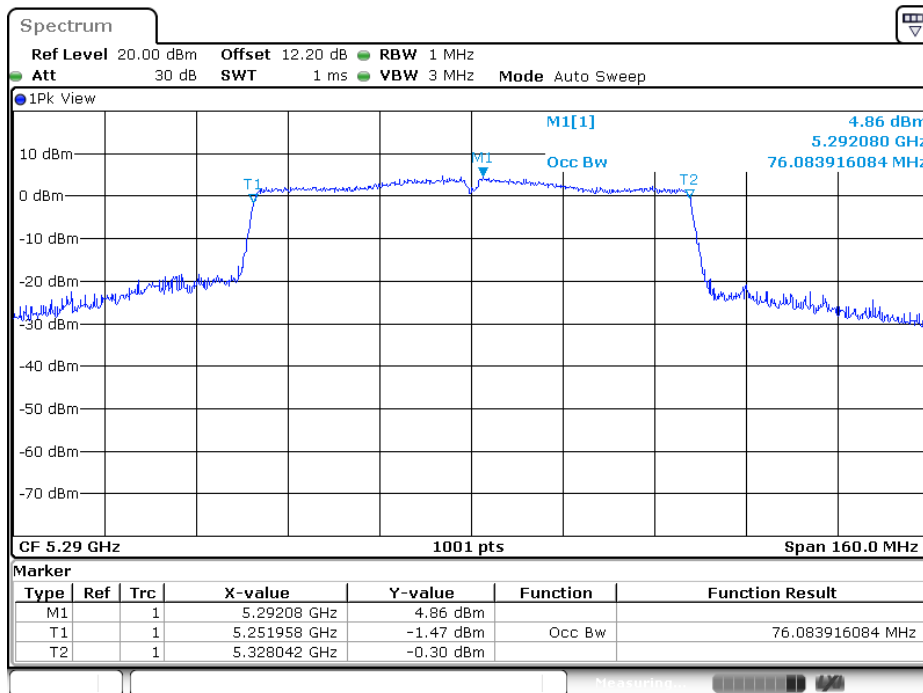


**802.11ac VHT80 5210MHz, TX1**


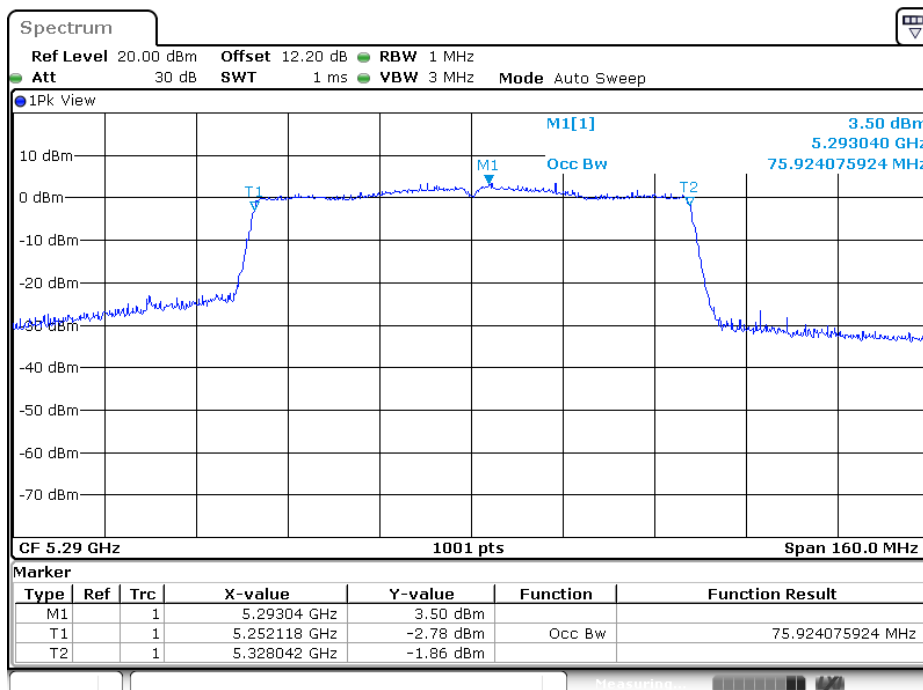
Date: 30.APR.2020 14:47:33

**802.11ac VHT80 5210MHz, TX2**


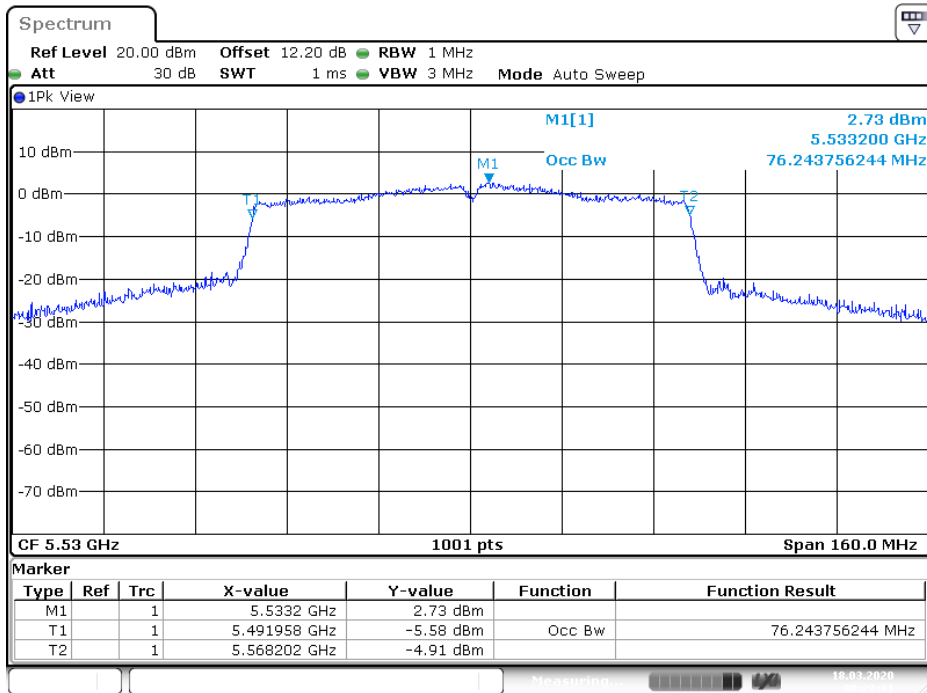
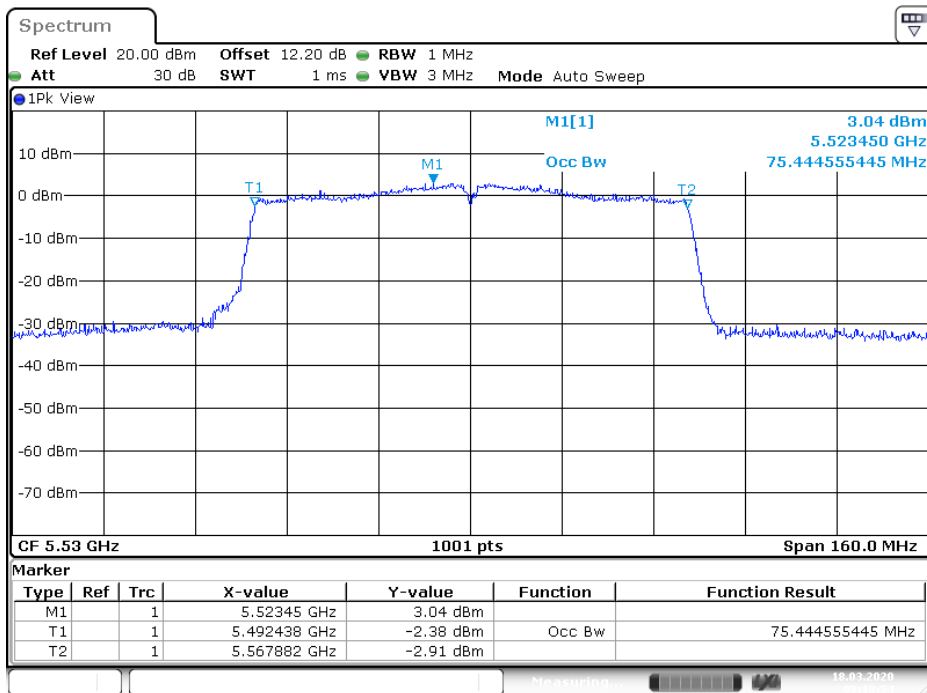
Date: 30.APR.2020 14:45:45

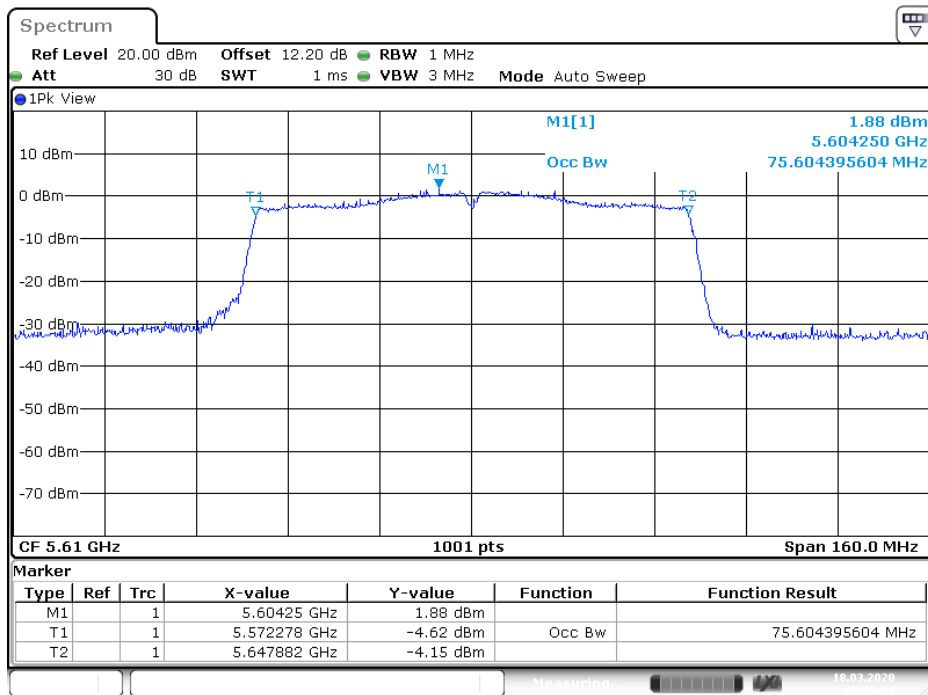
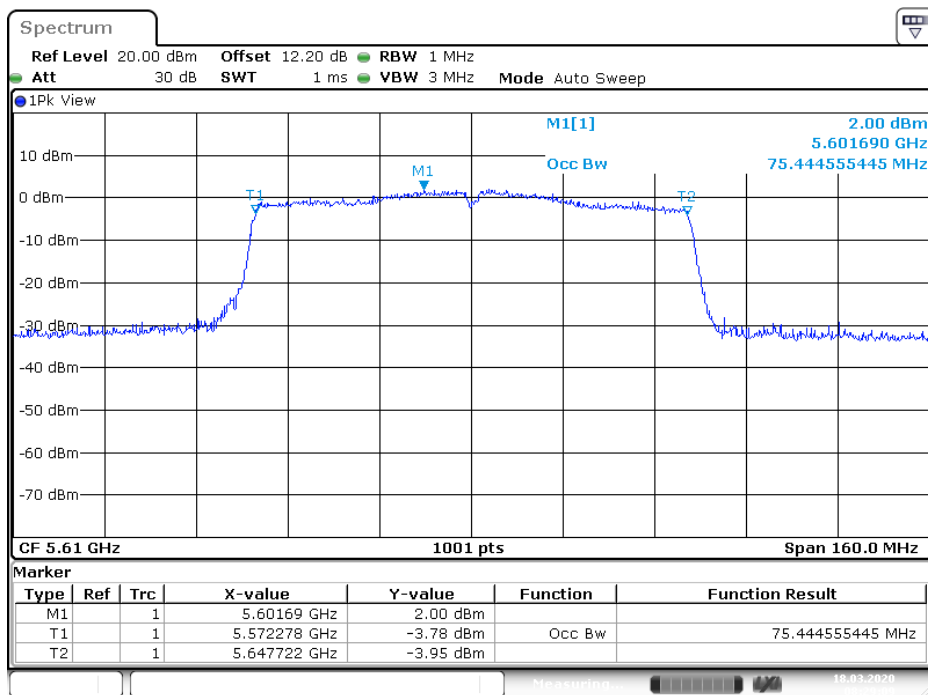
**802.11ac VHT80 5290MHz, TX1**


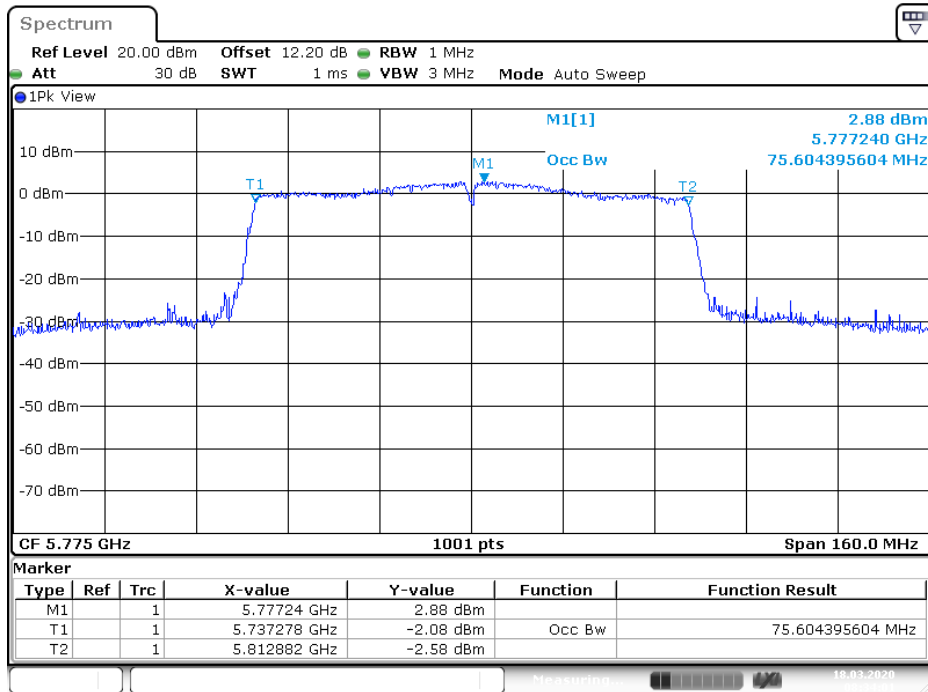
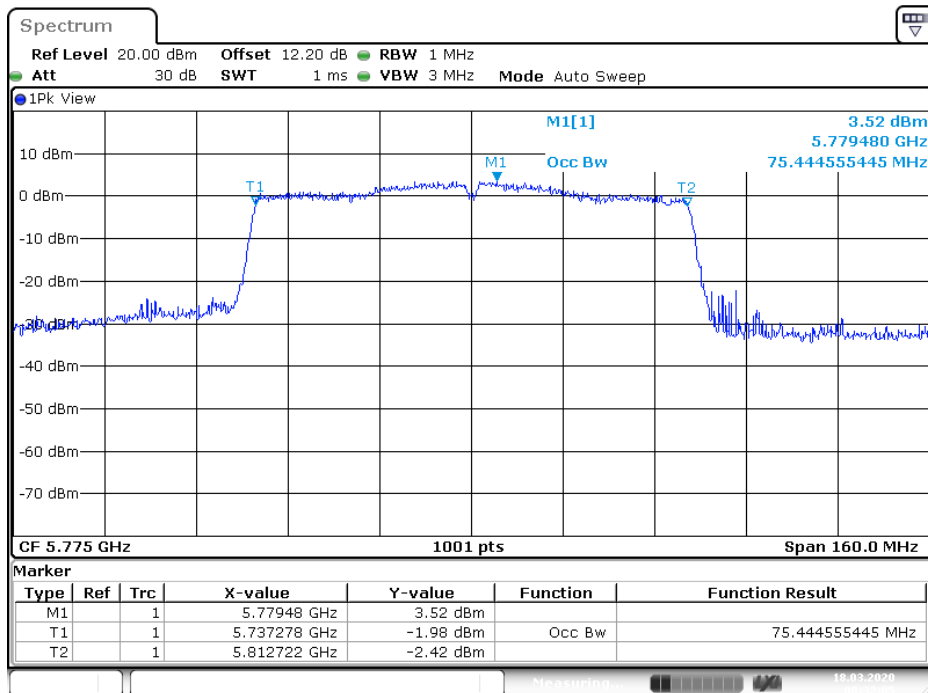
Date: 6.MAY.2020 14:34:36

**802.11ac VHT80 5290MHz, TX2**


Date: 6.MAY.2020 14:36:45

**802.11ac VHT80 5530MHz, TX1**

**802.11ac VHT80 5530MHz, TX2**


**802.11ac VHT80 5610MHz, TX1**

**802.11ac VHT80 5610MHz, TX2**


**802.11ac VHT80 5775MHz, TX1**

**802.11ac VHT80 5775MHz, TX2**


### 5.1.5 6dB Bandwidth

**RESULT:**
**Passed**

Test standard : FCC Part 15.407  
 Limit :  
 Basic standard : ANSI C63.10:2013  
 Kind of test site : Conducted room

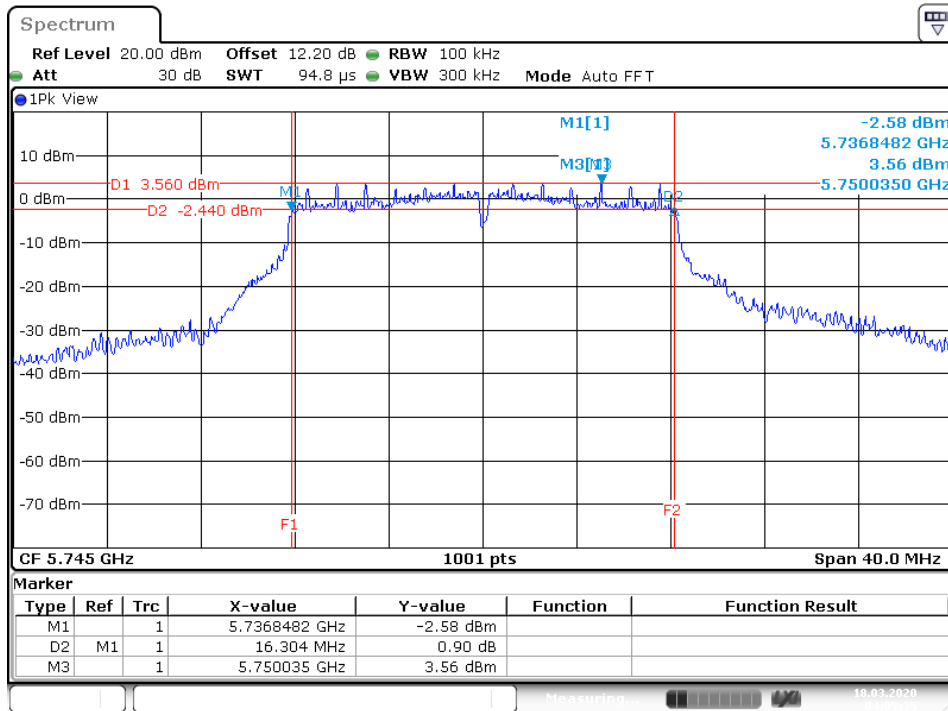
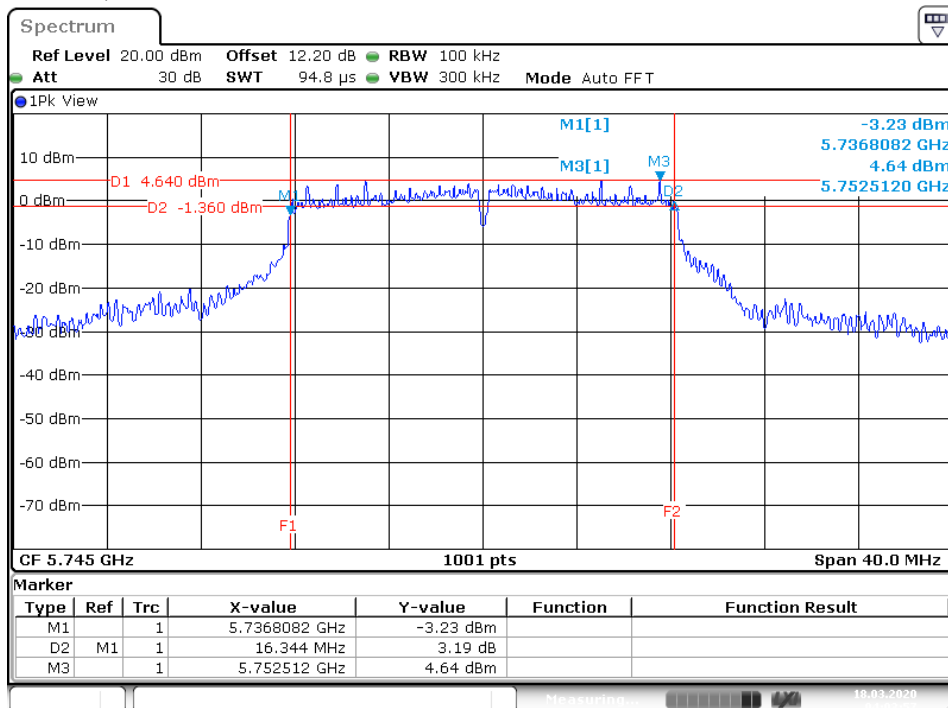
**Test setup**

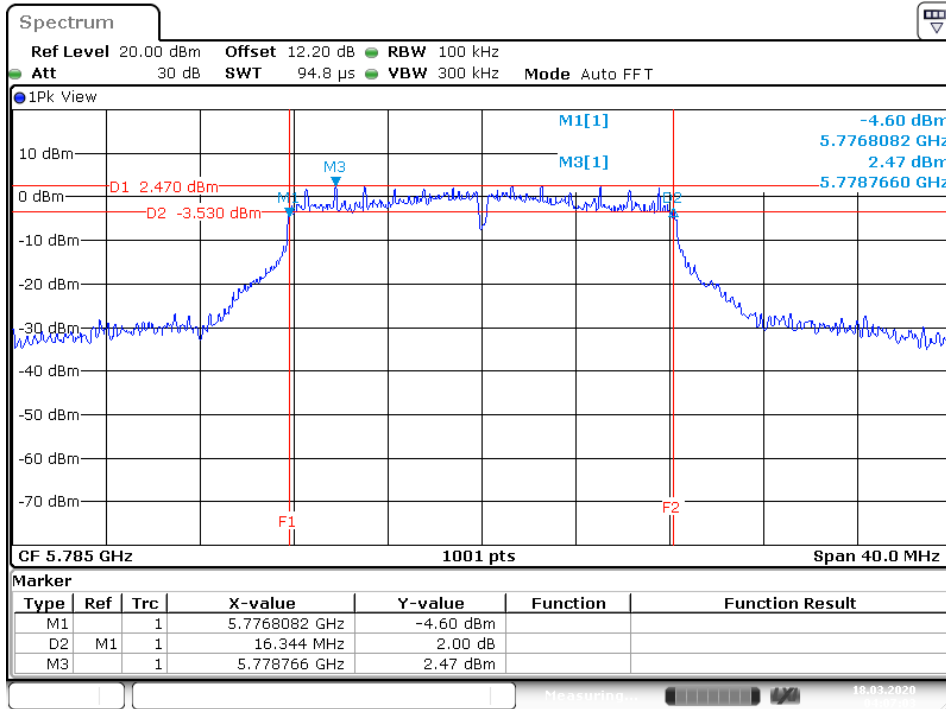
Test Channel : FCC refer to the Table 7, Band 4 only  
 Operation Mode : A

**Table 11: Test result of 6dB Bandwidth**

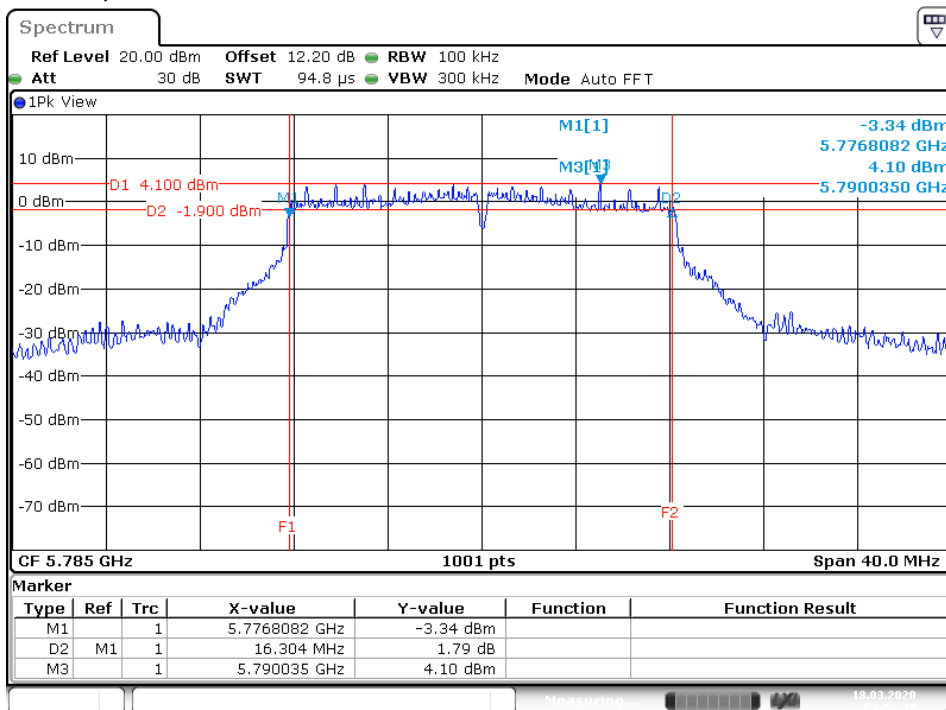
Mode	Channel Frequency (MHz)	6dB Bandwidth (MHz)		6dB Bandwidth Limit (kHz)	Result
		TX1	TX2		
802.11a	5745	16.304	16.344	>500	Pass
	5785	16.344	16.304	>500	Pass
	5825	16.344	16.344	>500	Pass
802.11an HT20	5745	17.542	17.582	>500	Pass
	5785	17.542	17.542	>500	Pass
	5825	17.542	17.582	>500	Pass
802.11an HT40	5755	36.204	36.284	>500	Pass
	5795	36.284	36.284	>500	Pass
802.11ac VHT80	5775	75.12	75.12	>500	Pass

## Test Plot of 6dB Bandwidth

**802.11a 5745MHz, TX 1**

**802.11a 5745MHz, TX2**


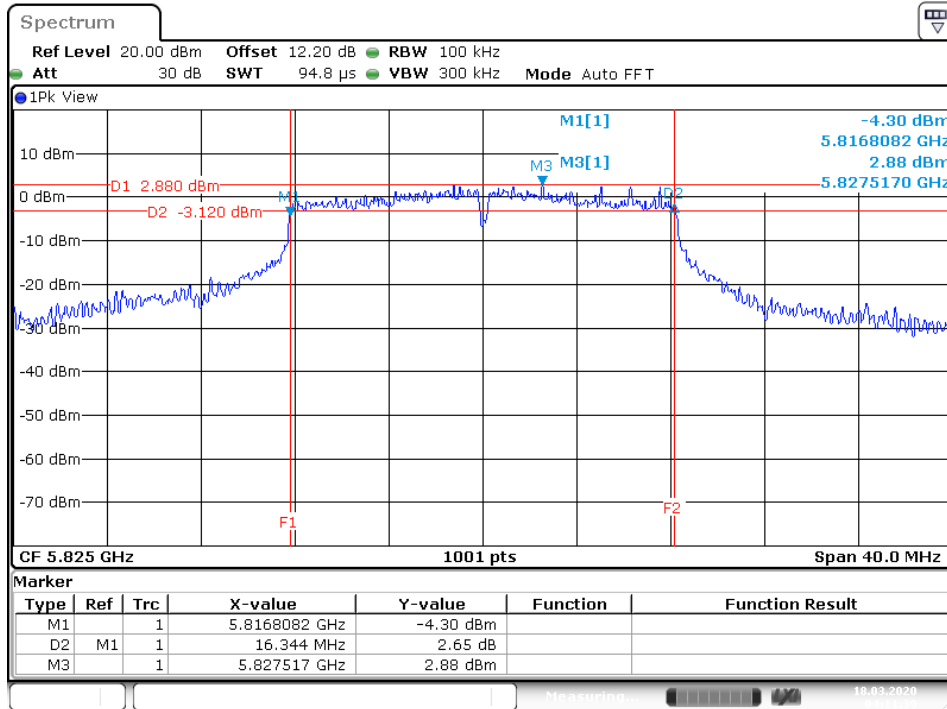
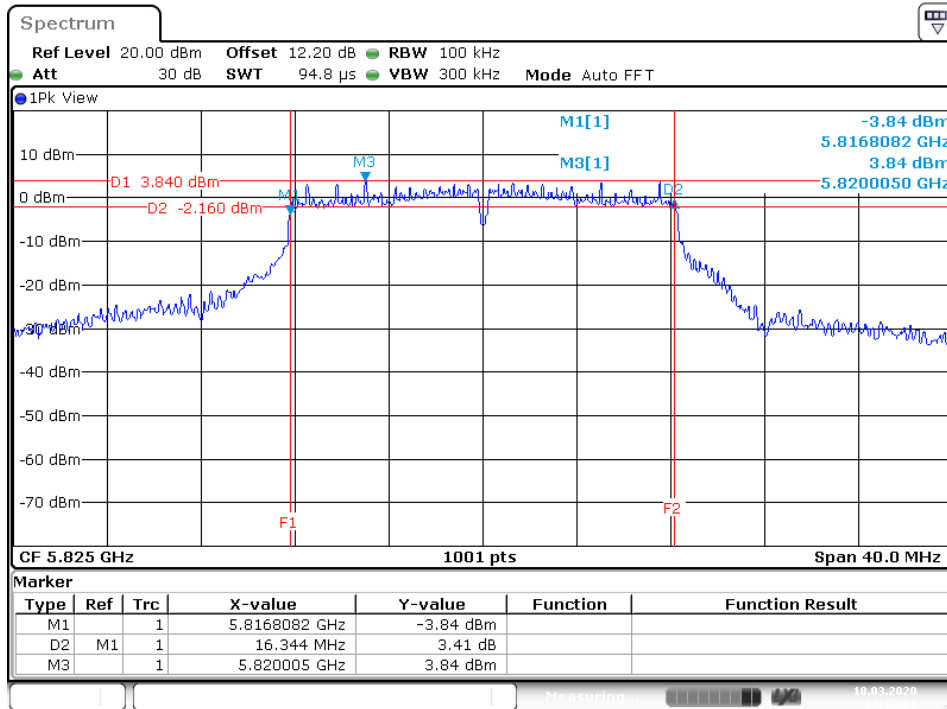
**802.11a 5785MHz, TX 1**


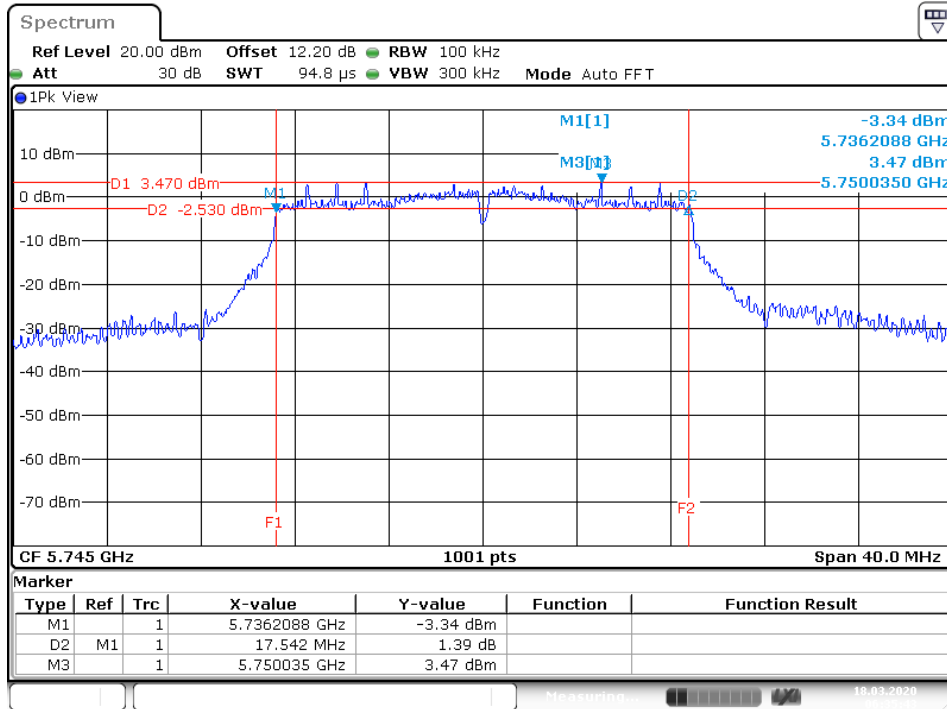
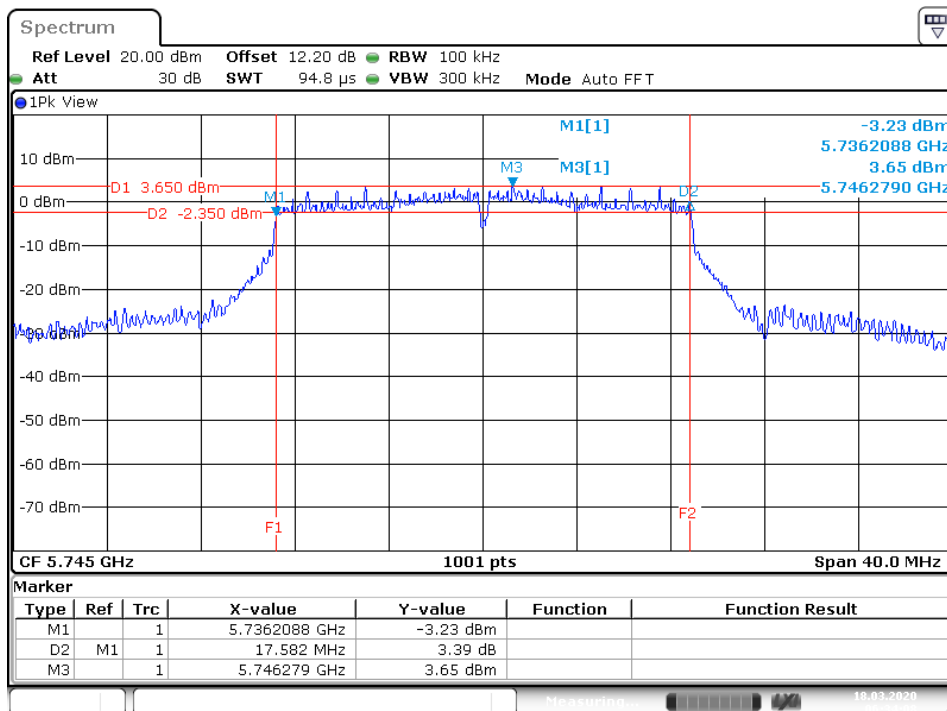
Date: 18.MAR.2020 04:07:03

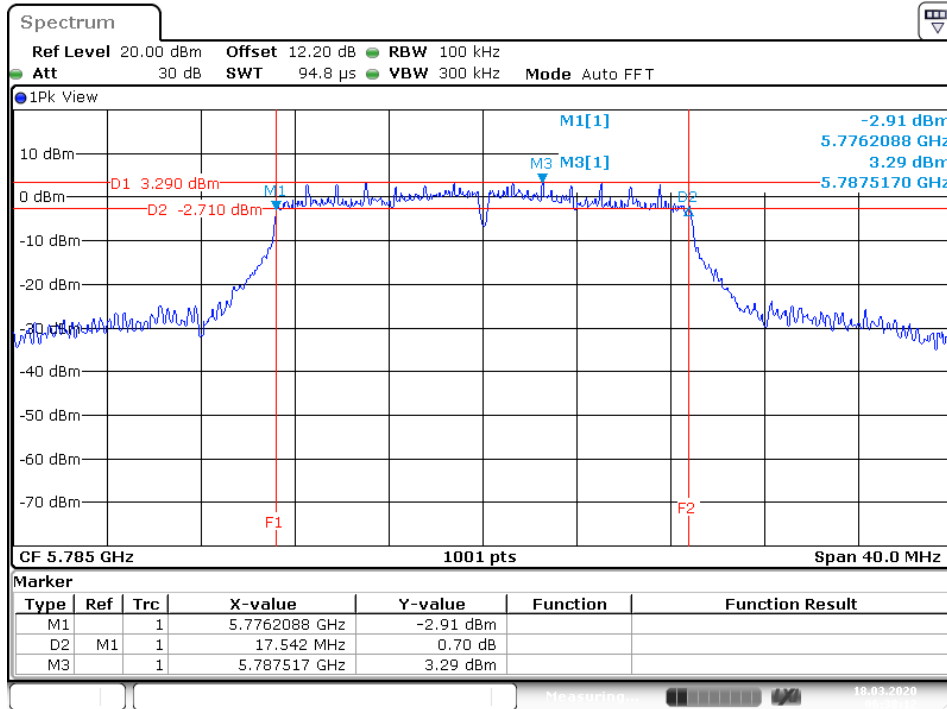
**802.11a 5785MHz, TX2**


Date: 18.MAR.2020 04:08:37

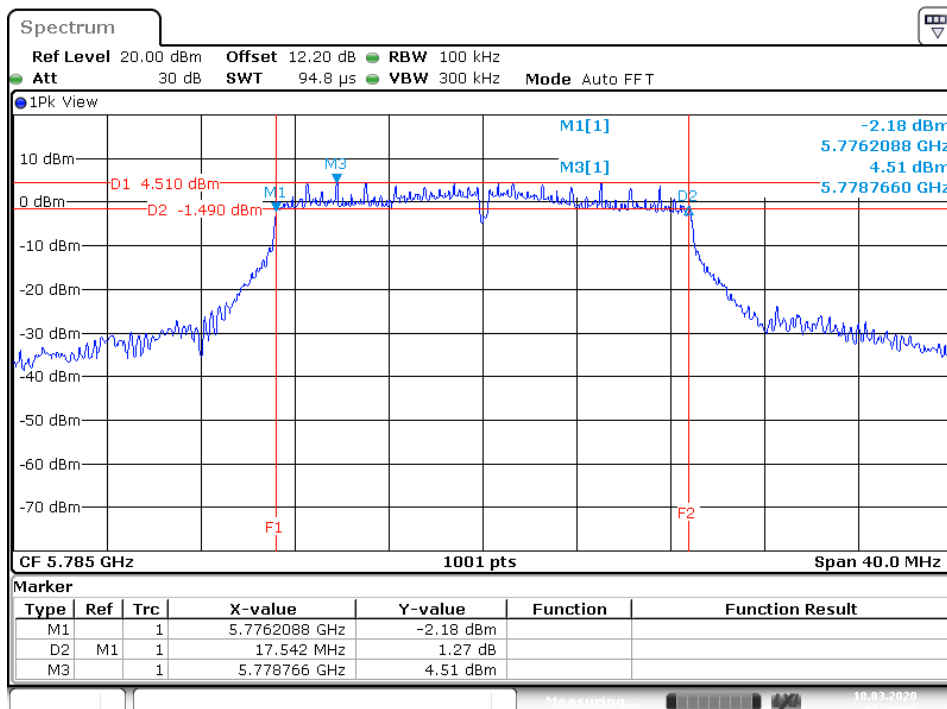


**802.11a 5825MHz, TX 1**

**802.11a 5825MHz, TX2**


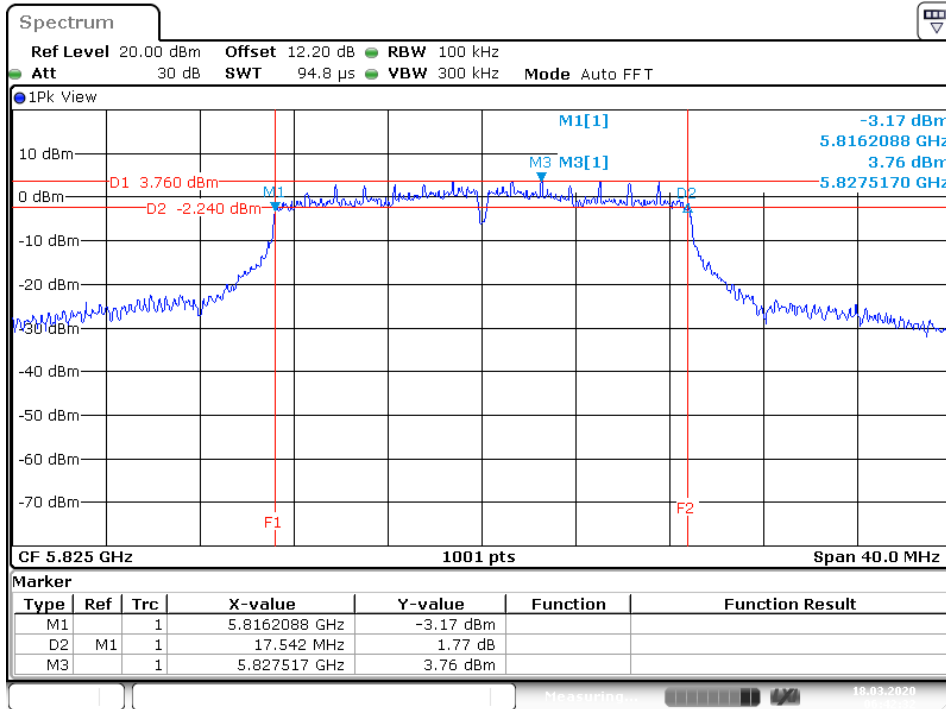
**802.11an HT20 5745MHz, TX1**

**802.11an HT20 5745MHz, TX2**


**802.11an HT20 5785MHz, TX1**


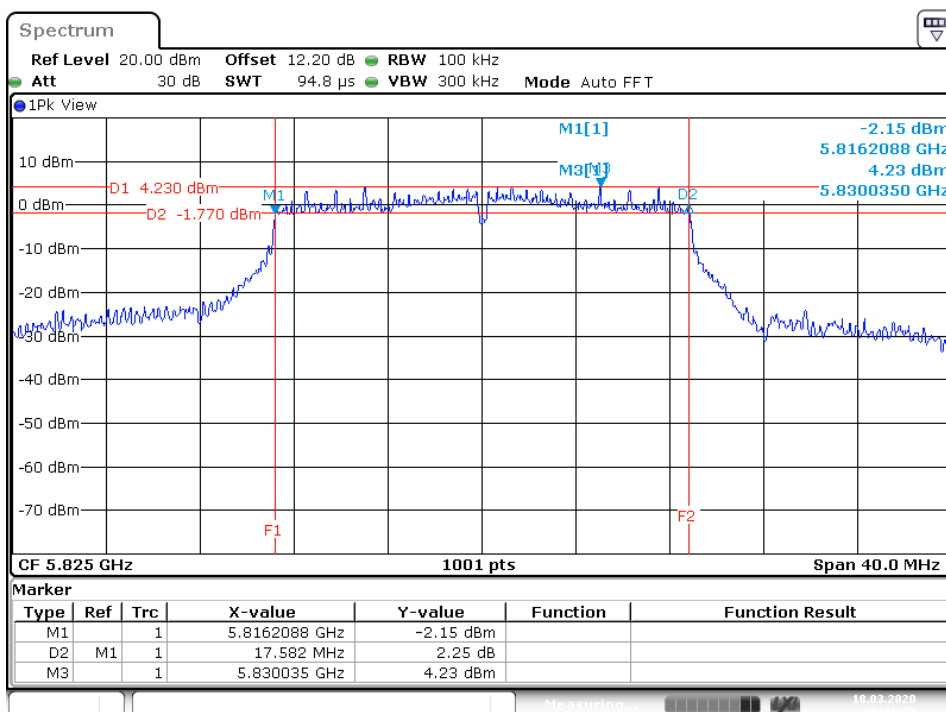
Date: 18.MAR.2020 06:38:13

**802.11an HT20 5785MHz, TX2**


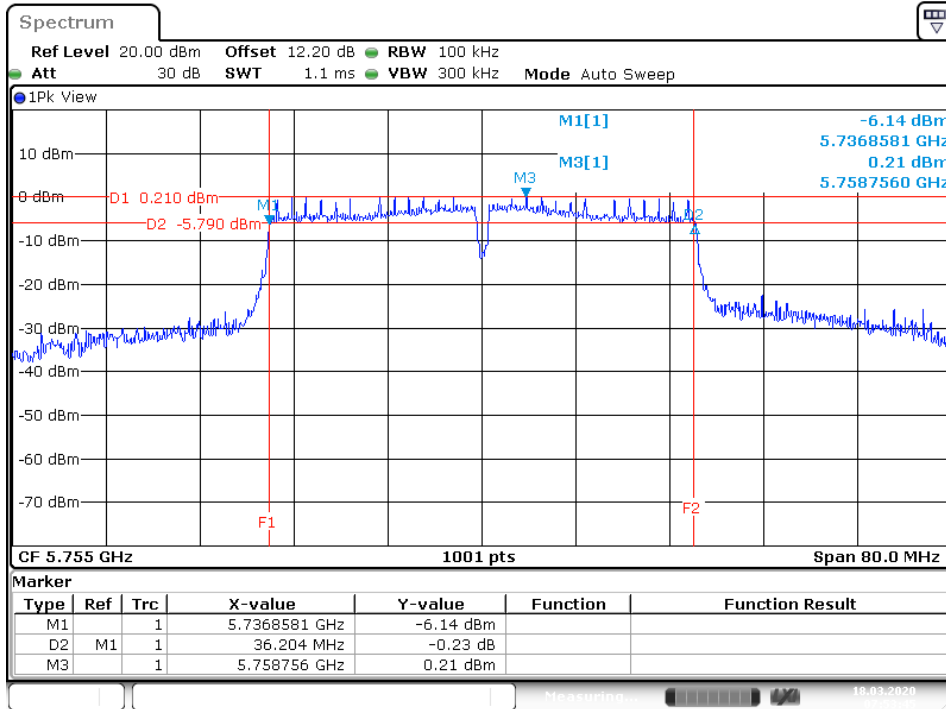
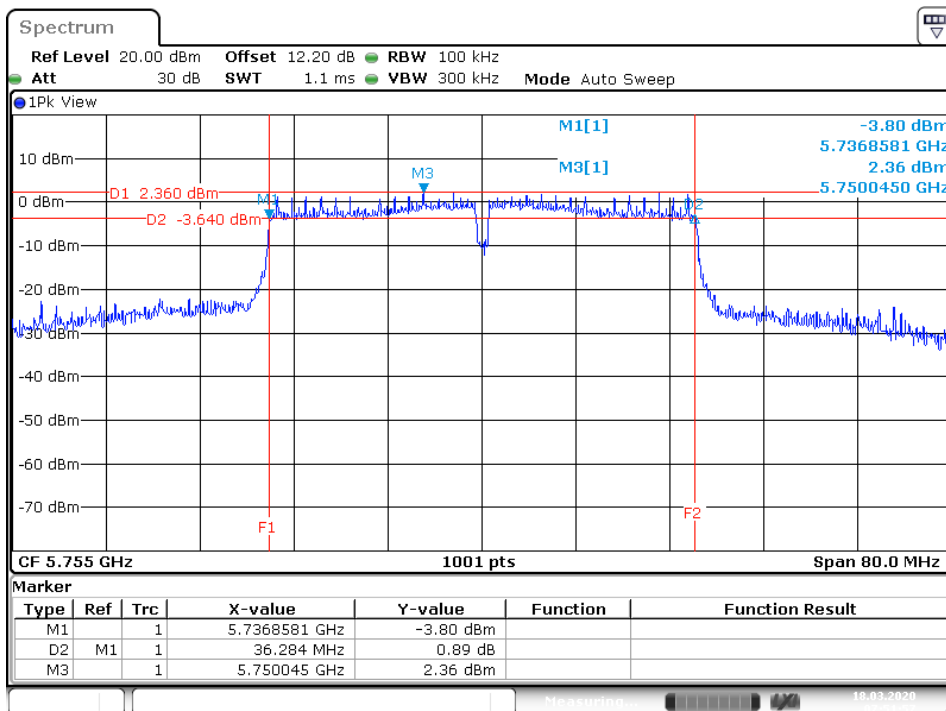
Date: 18.MAR.2020 06:39:27

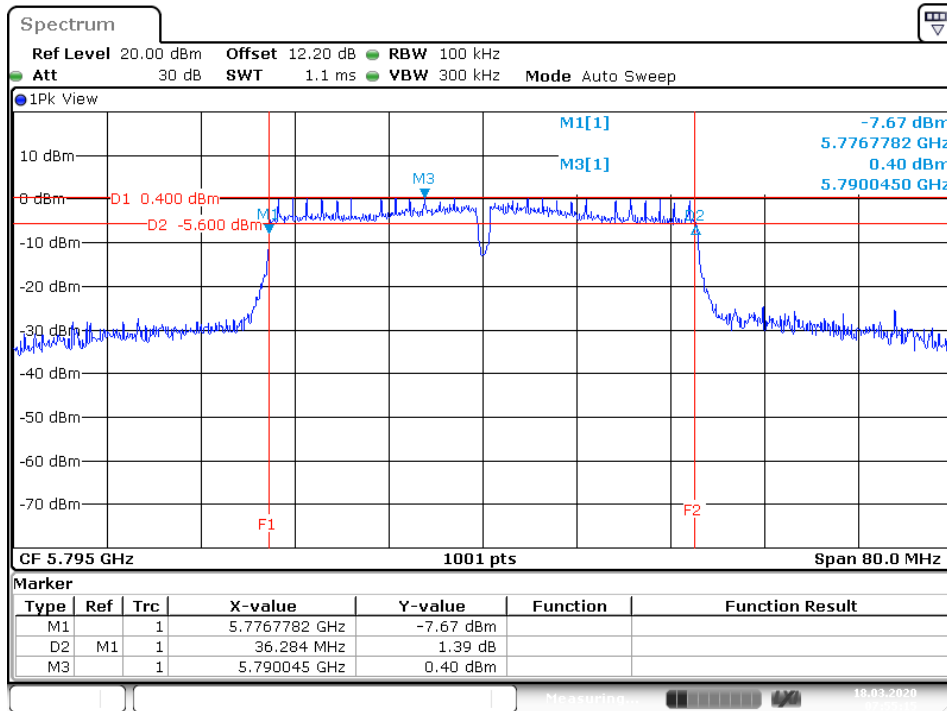
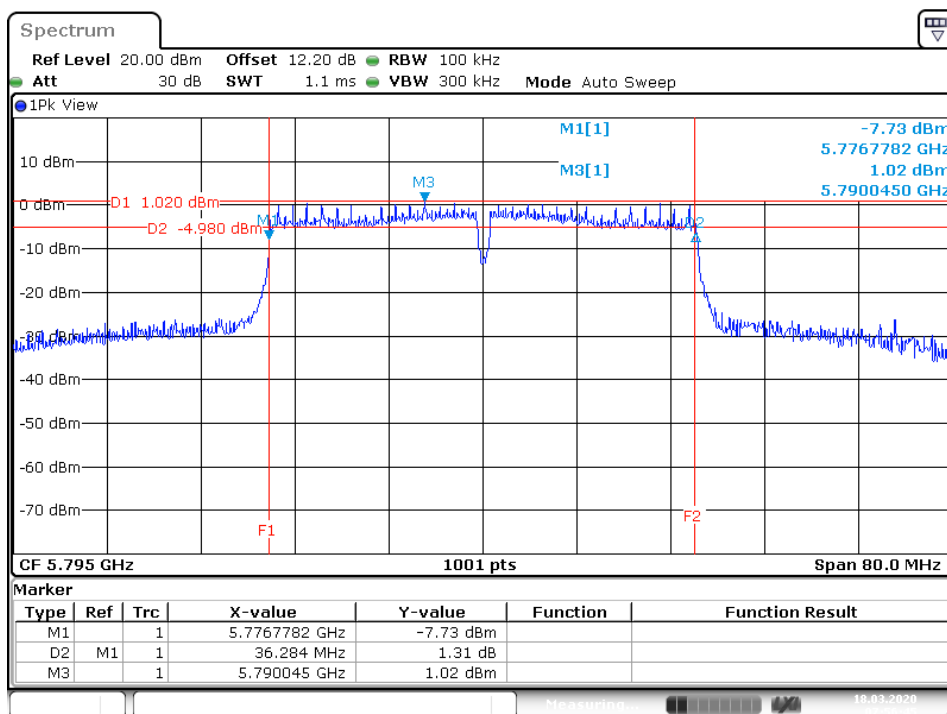
**802.11an HT20 5825MHz, TX1**


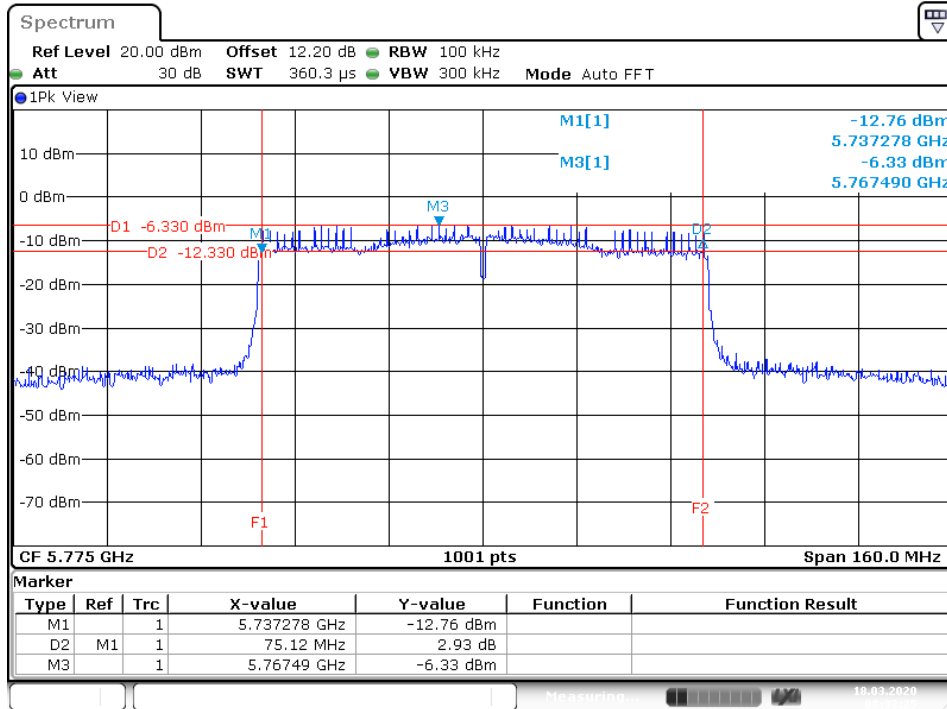
Date: 18.MAR.2020 06:42:33

**802.11an HT20 5825MHz, TX2**


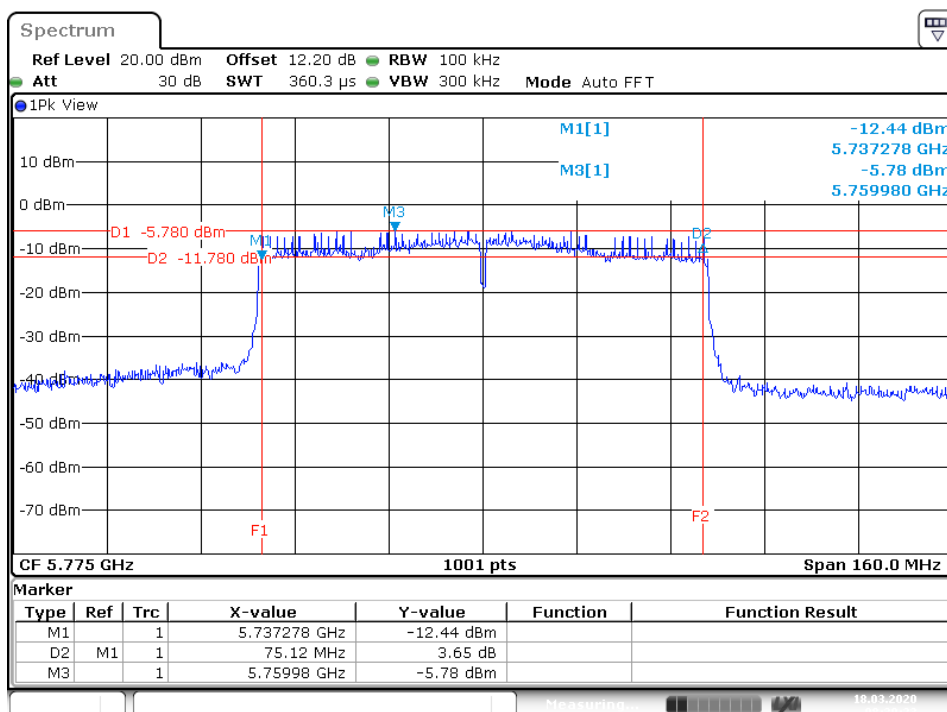
Date: 18.MAR.2020 06:41:04

**802.11an HT40 5755MHz, TX1**

**802.11an HT40 5755MHz, TX2**


**802.11an HT40 5795MHz, TX1**

**802.11an HT40 5795MHz, TX2**


**802.11ac VHT80 5775MHz, TX1**


Date: 18.MAR.2020 08:33:25

**802.11ac VHT80 5775MHz, TX2**


Date: 18.MAR.2020 08:30:23

## 5.1.6 Power Density

**RESULT:****Passed**

Test standard : FCC Part 15.407(a)(1),(3)  
Basic standard : ANSI C63.10:2013, KDB789033 D02  
Kind of test site : Shielded room

**Test setup**

Test Channel : FCC refer to the table 7  
ISED refer to the table 8  
Operation Mode : A

Note: Direction Gain = 6.75dBi

FCC Limit :

For client devices in the 5.15-5.25 GHz band, the maximum conducted power spectral density shall not exceed 11 dBm in any 1 megahertz band.

Limit = 11dBm – (6.75-6)dB= 10.25dBm

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

Limit = 11dBm – (6.75-6)dB= 10.25dBm

For the band 5.725-5.85 GHz, the maximum conducted power spectral density shall not exceed 30 dBm in any 500-kHz band.

Limit = 30dBm – (6.75-6)dB= 29.25dBm



**Table 12: Test result of Power Density**

Mode	Channel Frequency (MHz)	Conducted Power Density			Power Density Limit
		Ant 1 B1-B3 (dBm/MHz) B4 (dBm/500kHz)	Ant 2 B1-B3 (dBm/MHz) B4 (dBm/500kHz)	Total B1-B3 (dBm/MHz) B4 (dBm/500kHz)	B1-B3 (dBm/MHz) B4 (dBm/500kHz)
802.11a	5180	4.68	6.22	8.53	10.25
	5200	6.90	7.49	10.22	10.25
	5240	3.85	1.99	6.03	10.25
	5260	6.67	6.98	9.84	10.25
	5300	6.28	6.43	9.37	10.25
	5320	6.47	6.81	9.65	10.25
	5500	0.84	2.77	4.92	10.25
	5580	3.30	4.03	6.69	10.25
	5700	3.78	3.94	6.87	10.25
	5745	2.73	3.37	6.07	29.25
	5785	1.35	3.06	5.30	29.25
	5825	2.45	2.94	5.71	29.25
802.11an HT20	5180	2.31	4.80	6.74	10.25
	5200	6.04	3.99	8.15	10.25
	5240	3.06	3.95	6.54	10.25
	5260	2.00	4.20	6.25	10.25
	5300	1.44	2.99	5.29	10.25
	5320	4.95	4.85	7.91	10.25
	5500	0.09	2.37	4.39	10.25
	5580	1.55	3.70	5.77	10.25
	5700	2.22	2.63	5.44	10.25
	5745	2.64	2.61	5.64	29.25
	5785	2.03	3.19	5.66	29.25
	5825	2.52	2.98	5.77	29.25
802.11an HT40	5190	-0.54	-1.32	2.10	10.25
	5230	-1.92	-0.90	1.63	10.25
	5270	-2.62	0.37	2.14	10.25
	5310	-0.18	-0.35	2.75	10.25
	5510	-3.14	-1.33	0.87	10.25
	5550	-0.06	-0.45	2.76	10.25
	5670	-0.79	-0.58	2.33	10.25
	5755	-1.47	-0.09	2.28	29.25
	5795	-1.35	-1.60	1.54	29.25
802.11ac VHT80	5210	-6.56	-7.59	-4.03	10.25
	5290	-4.85	-5.85	-2.31	10.25
	5530	-6.39	-6.37	-3.37	10.25

Produkte  
Products

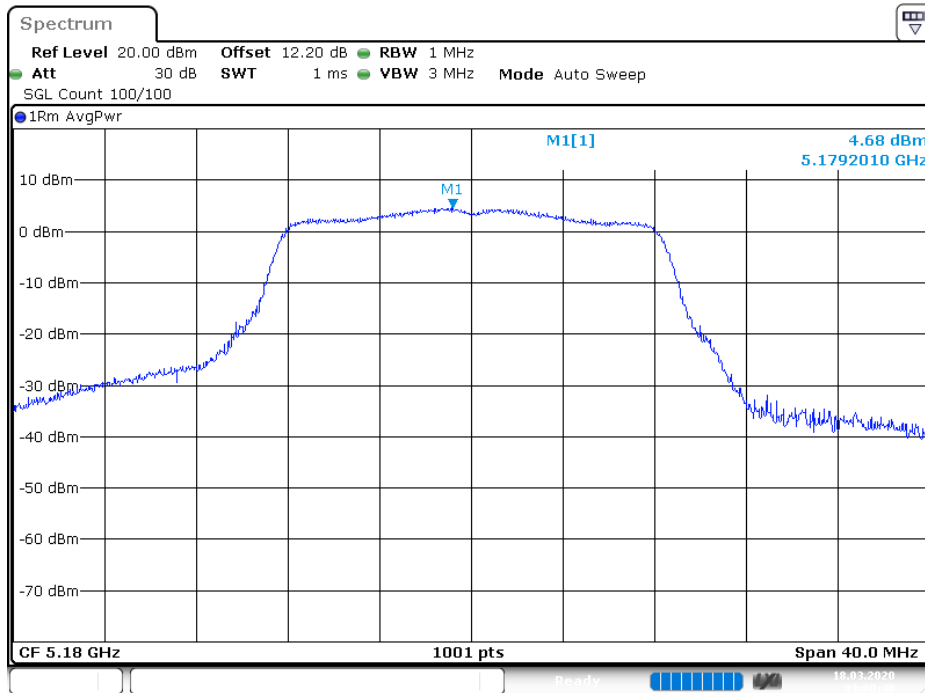
**Prüfbericht- Nr.: 50349169 001**  
Test Report No.

**Seite 105 von 158**  
Page 105 of 158

	5610	-7.14	-7.07	-4.09	10.25
	5775	-7.87	-7.96	-4.90	29.25

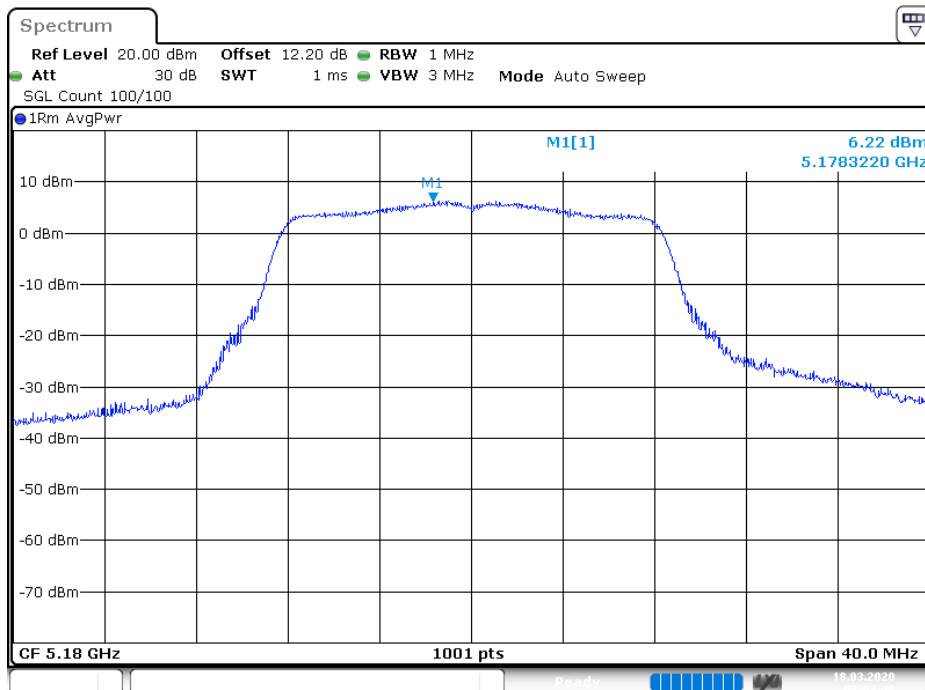
## Test Plot of Power Density

### 802.11a 5180MHz, TX1

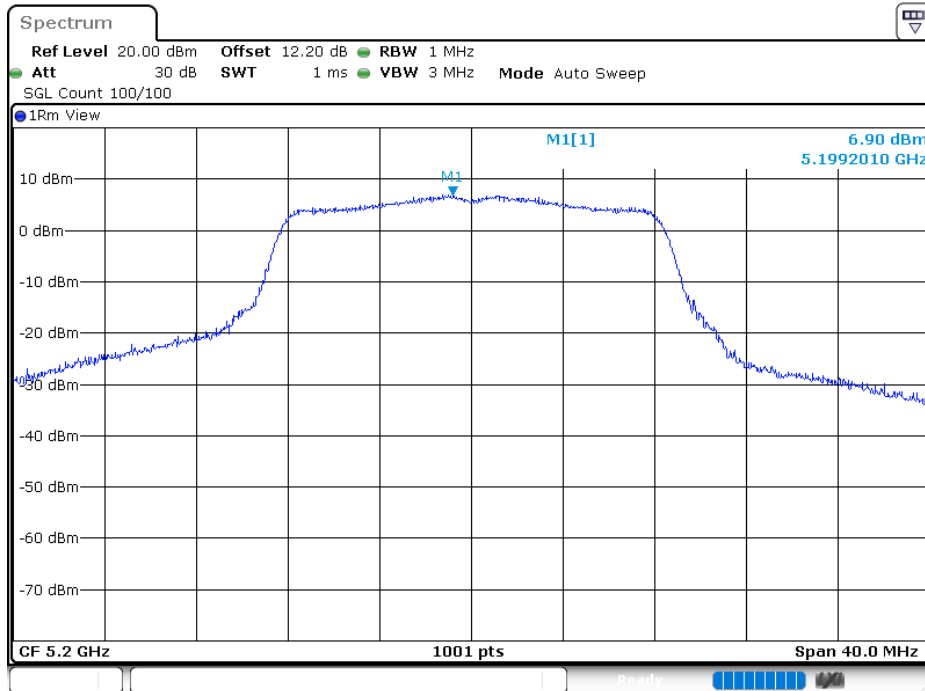
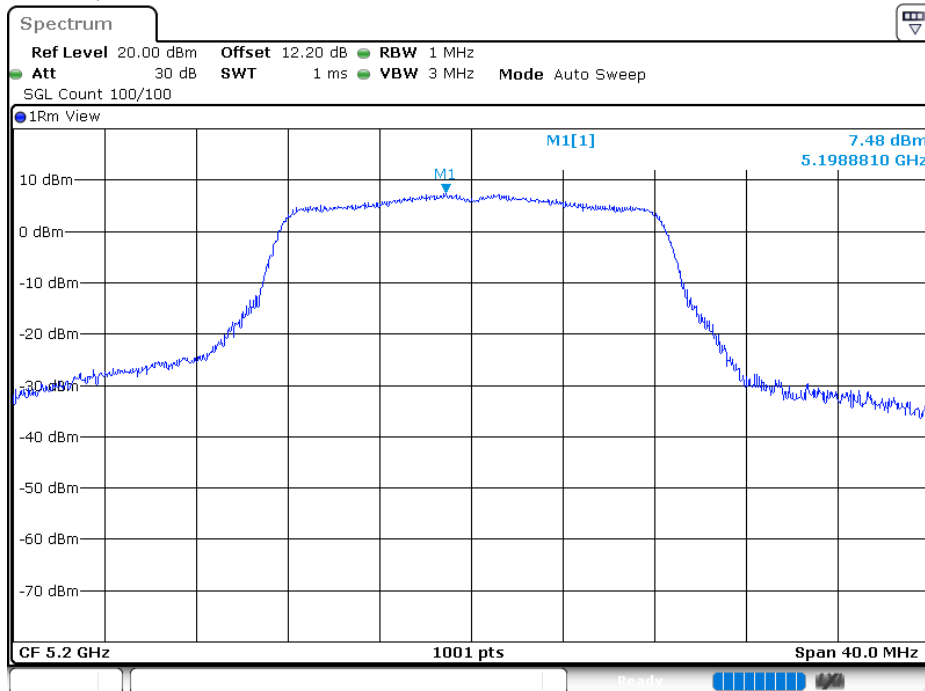


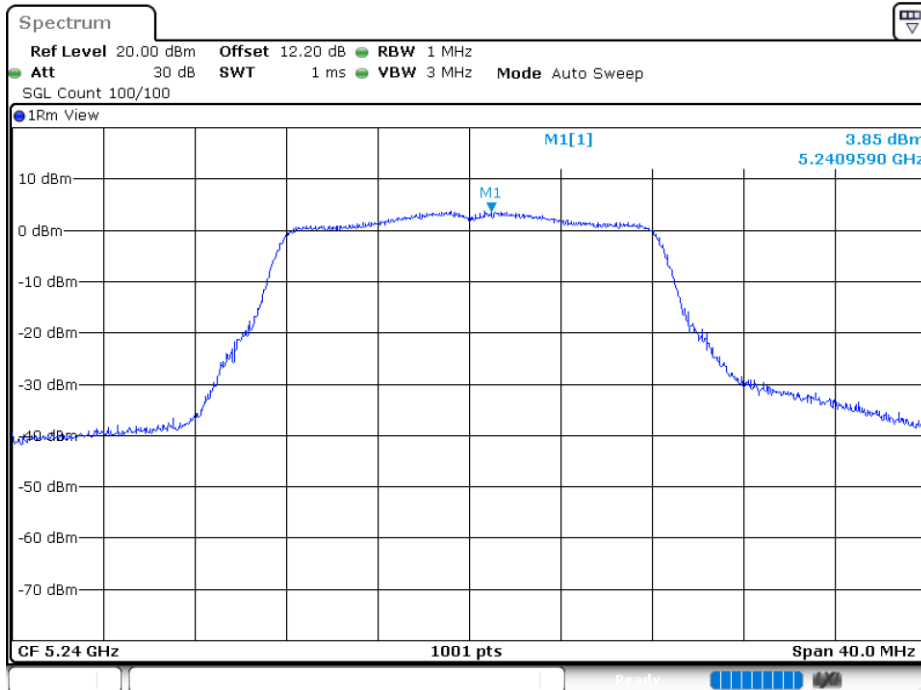
Date: 18.MAR.2020 03:00:40

### 802.11a 5180MHz, TX2

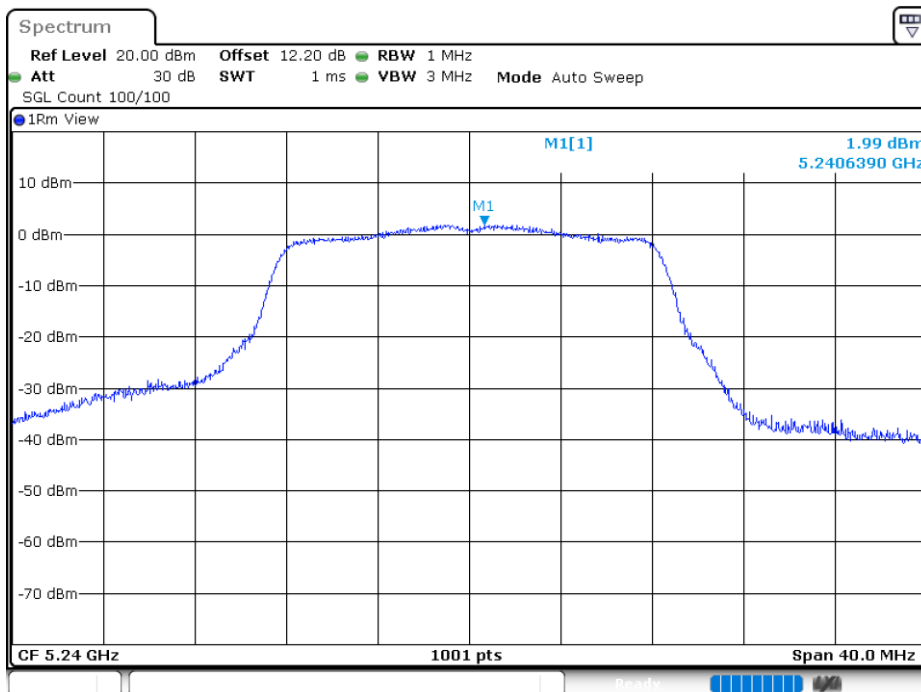


Date: 18.MAR.2020 03:03:48

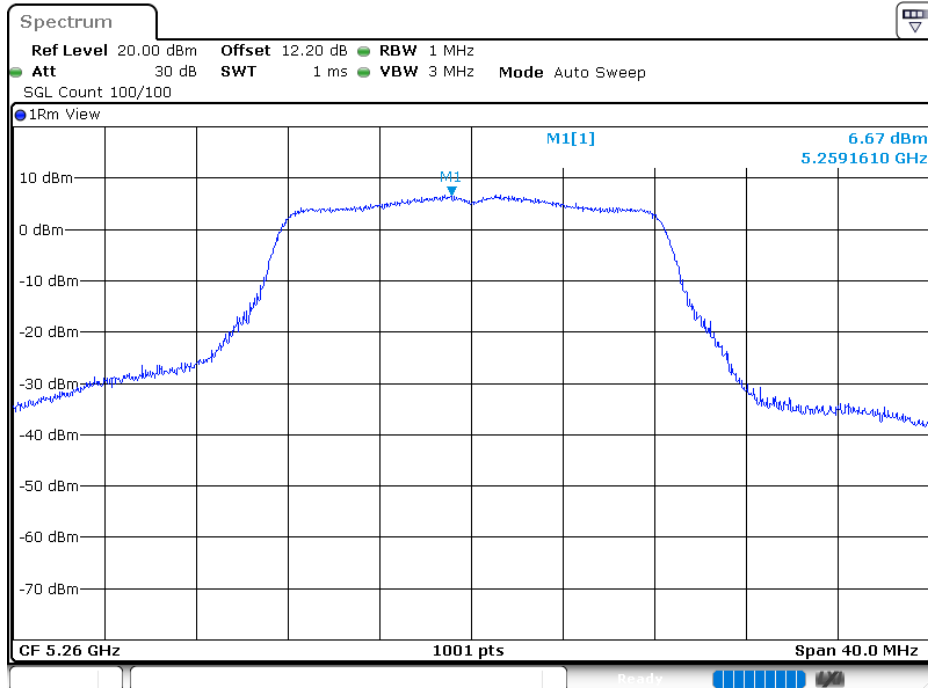
**802.11a 5200MHz, TX1**

**802.11a 5200MHz, TX2**


**802.11a 5240MHz, TX1**


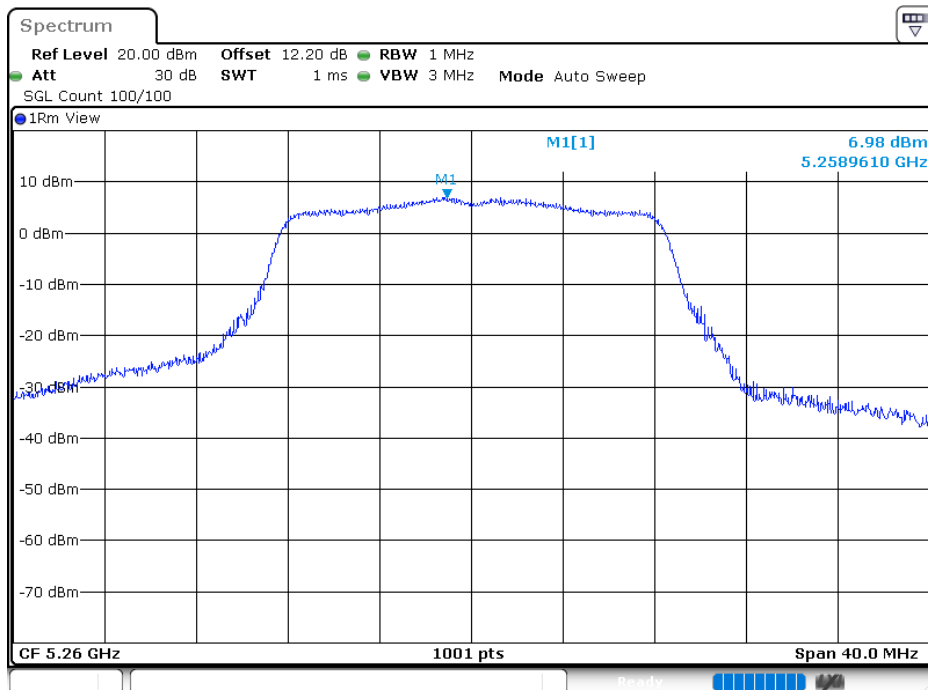
Date: 17.JUN.2020 04:39:43

**802.11a 5240MHz, TX2**


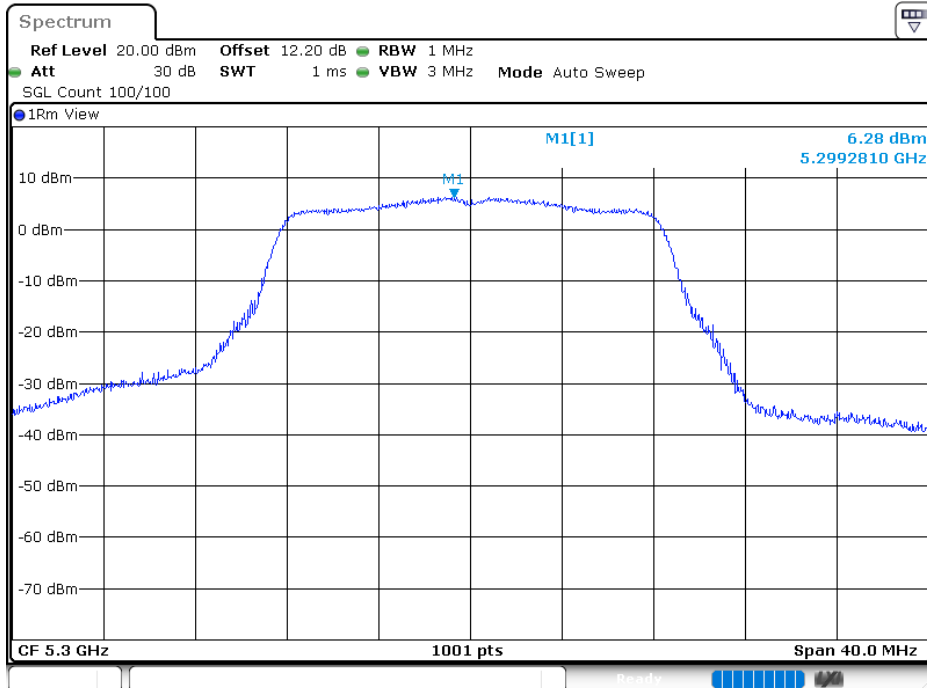
Date: 17.JUN.2020 04:39:04

**802.11a 5260MHz, TX1**


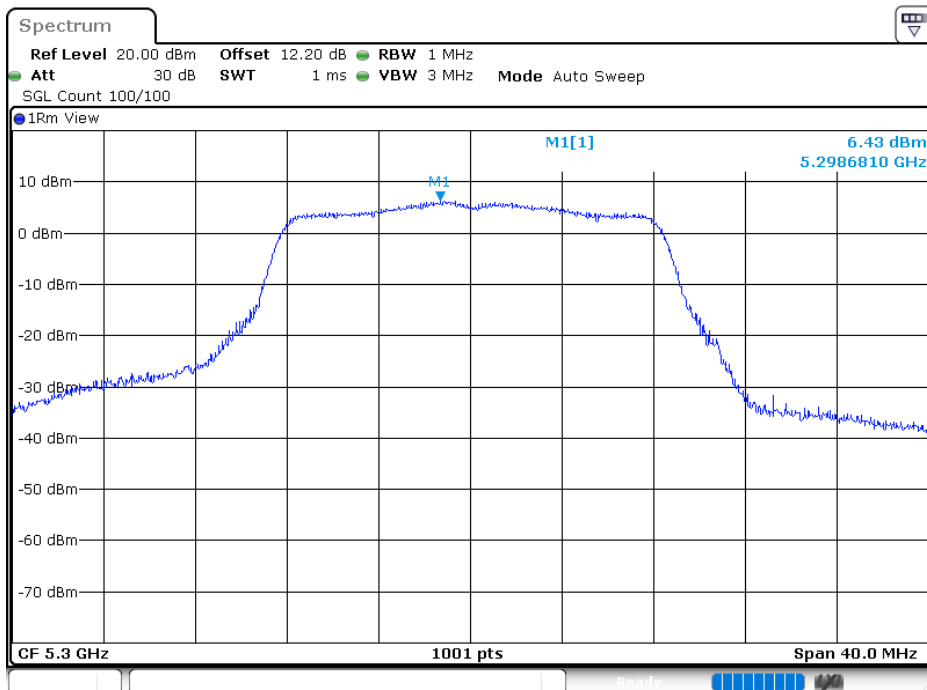
Date: 22.MAY.2020 23:58:44

**802.11a 5260MHz, TX2**


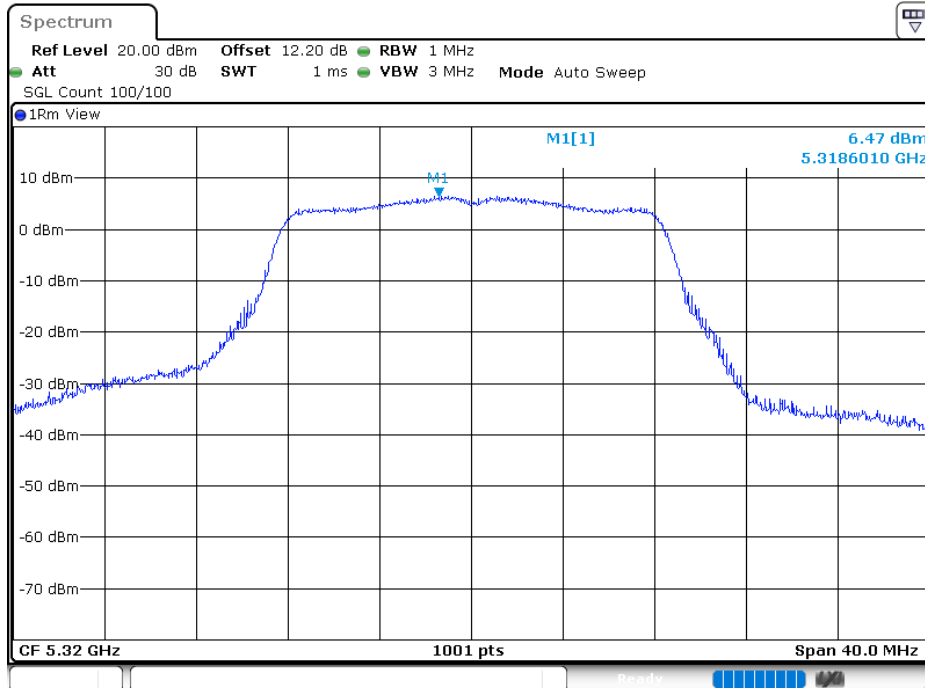
Date: 23.MAY.2020 00:08:08

**802.11a 5300MHz, TX1**


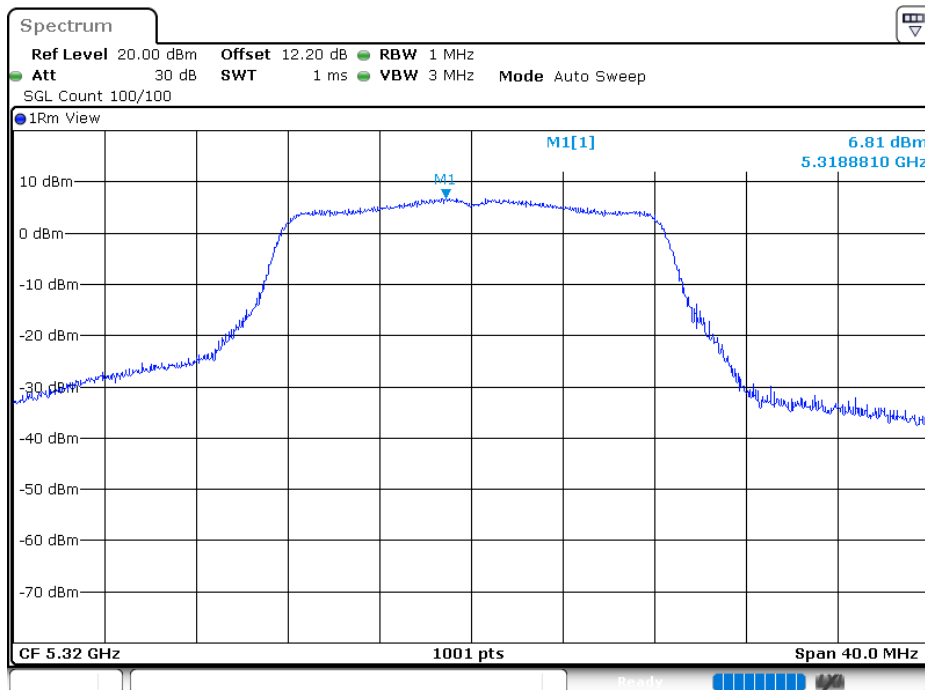
Date: 23.MAY.2020 00:00:19

**802.11a 5300MHz, TX2**


Date: 23.MAY.2020 00:06:58

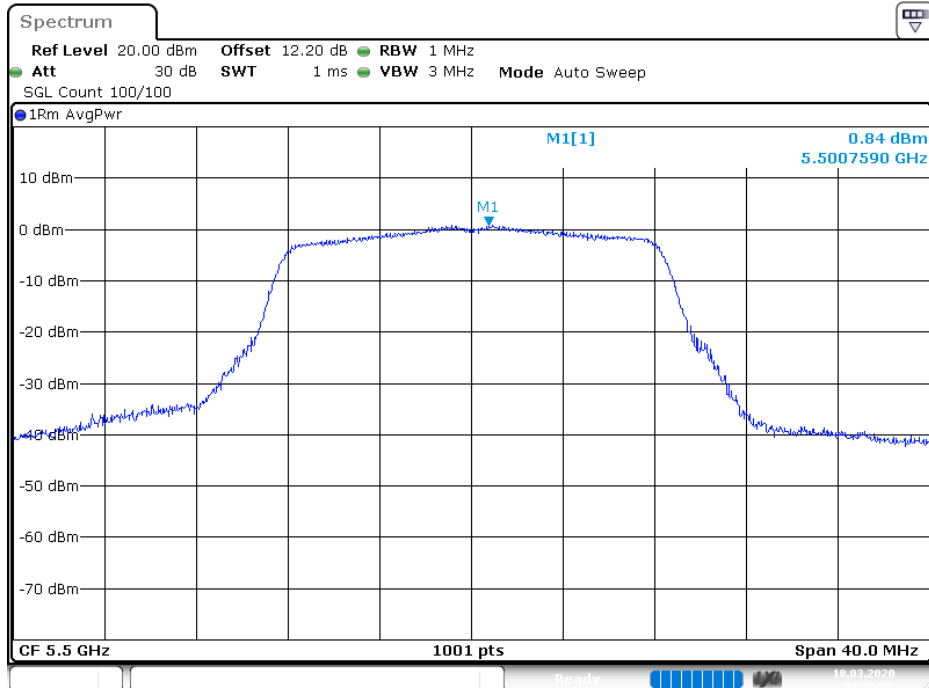
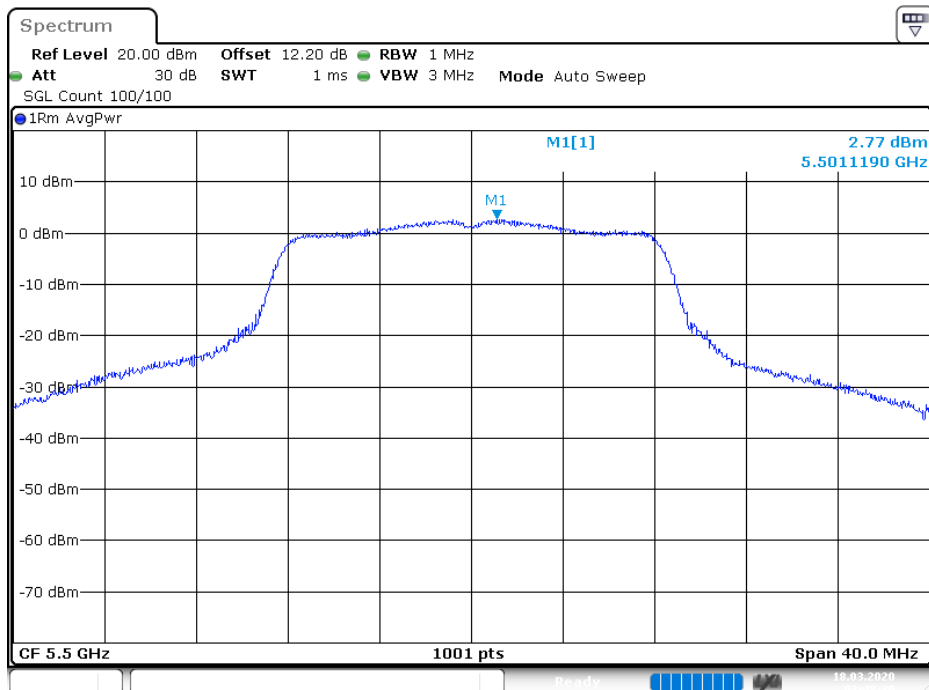
**802.11a 5320MHz, TX1**


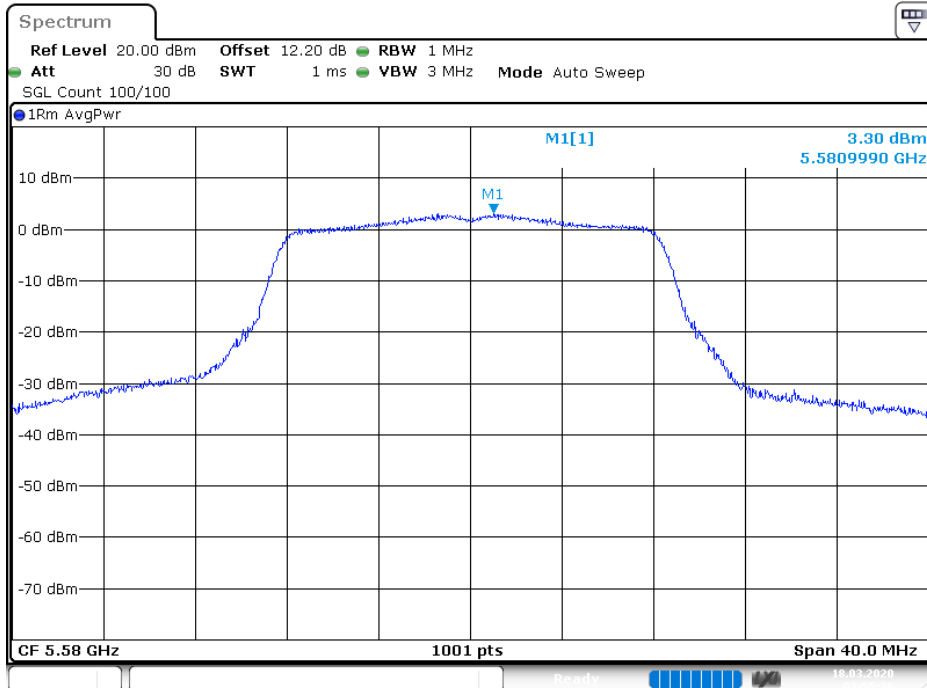
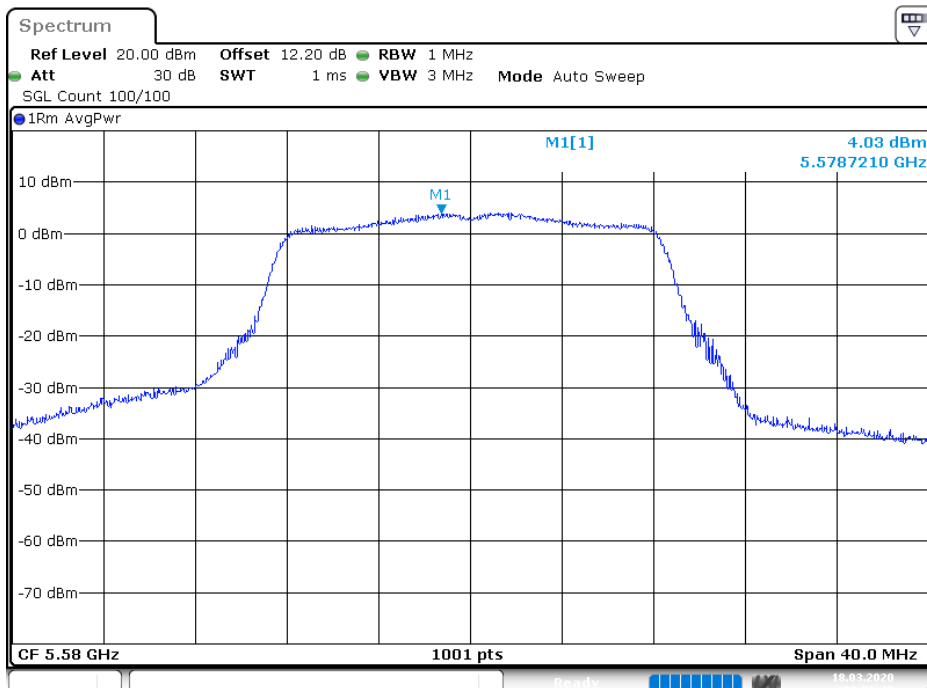
Date: 23.MAY.2020 00:01:33

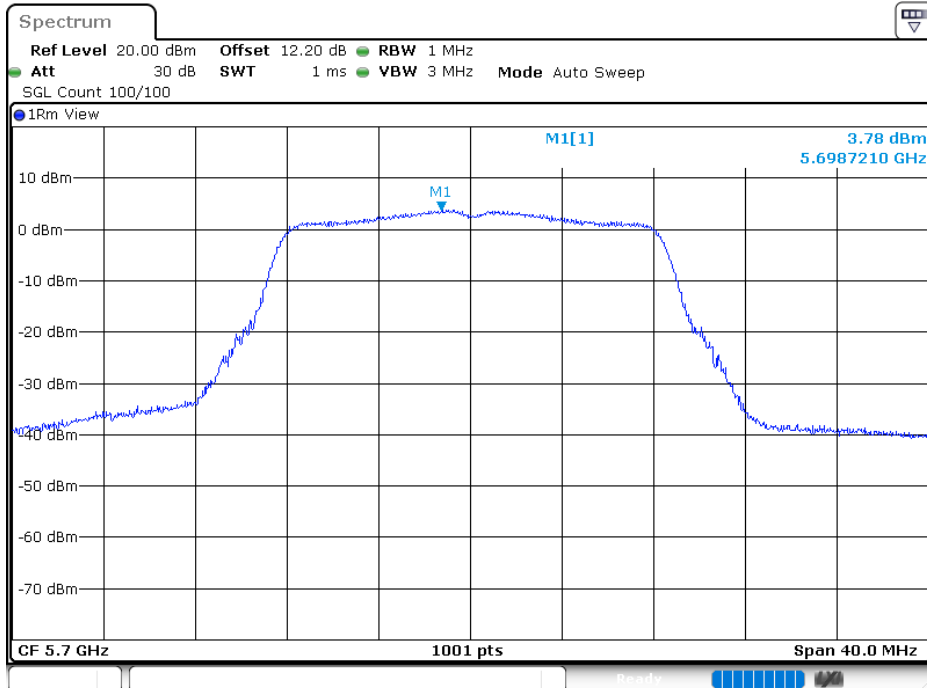
**802.11a 5320MHz, TX2**


Date: 23.MAY.2020 00:05:47

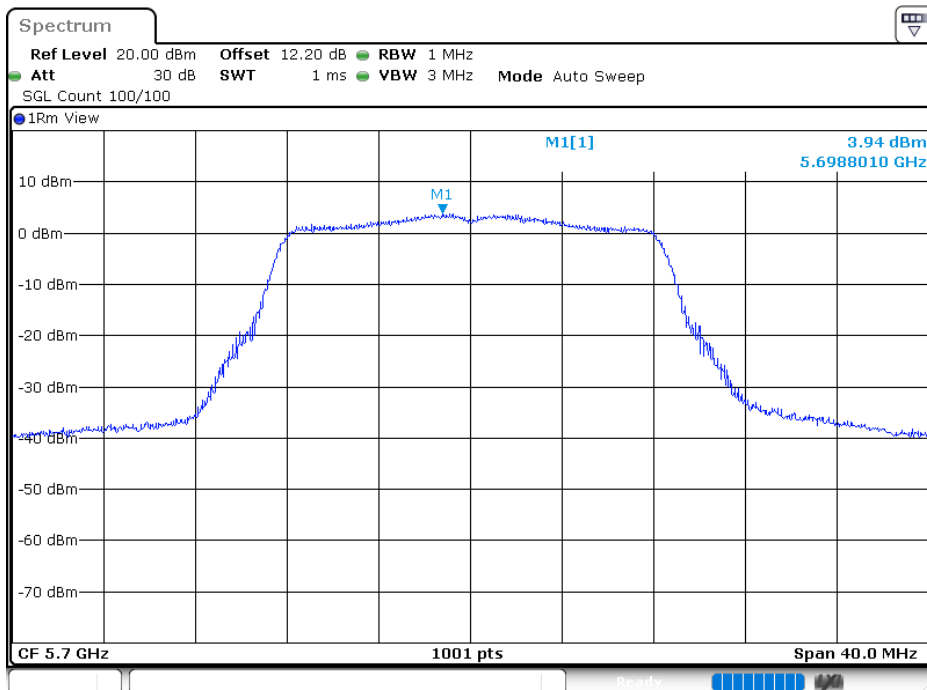


**802.11a 5500MHz, TX1**

**802.11a 5500MHz, TX2**


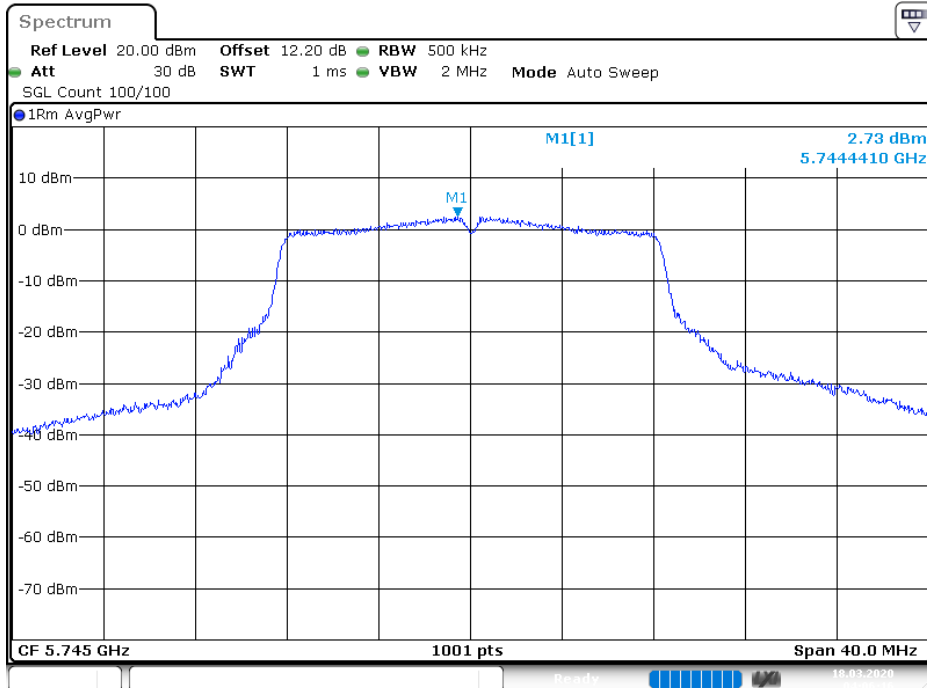
**802.11a 5580MHz, TX1**

**802.11a 5580MHz, TX2**


**802.11a 5700MHz, TX1**


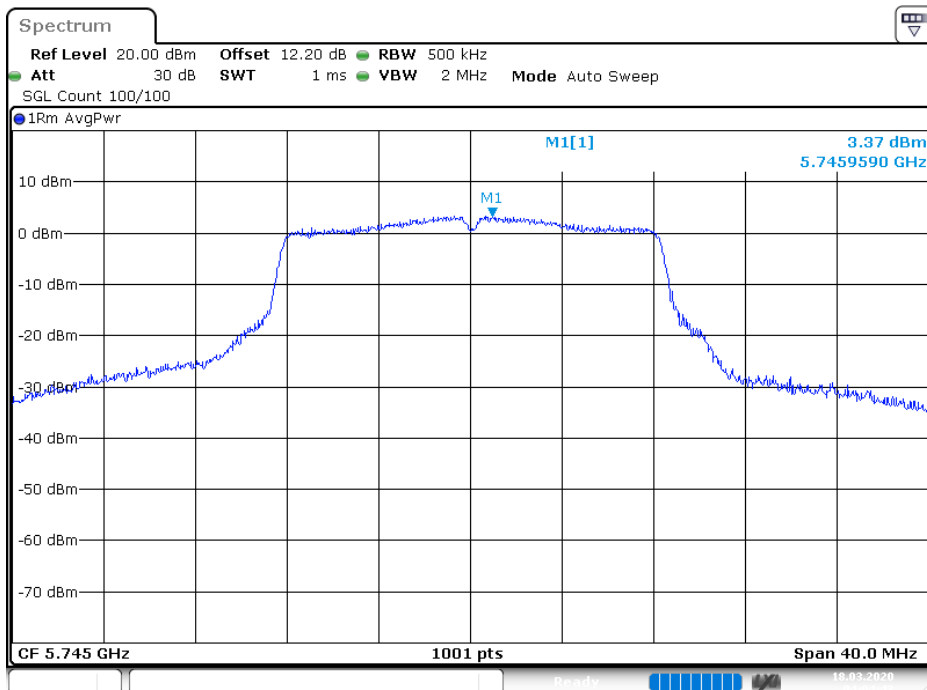
Date: 23.MAY.2020 00:02:52

**802.11a 5700MHz, TX2**


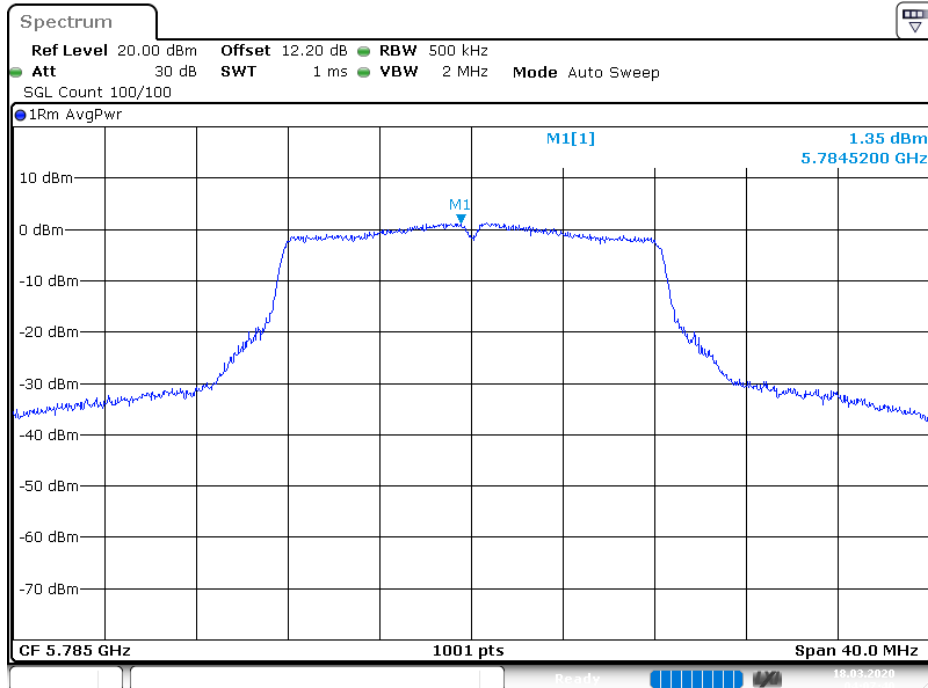
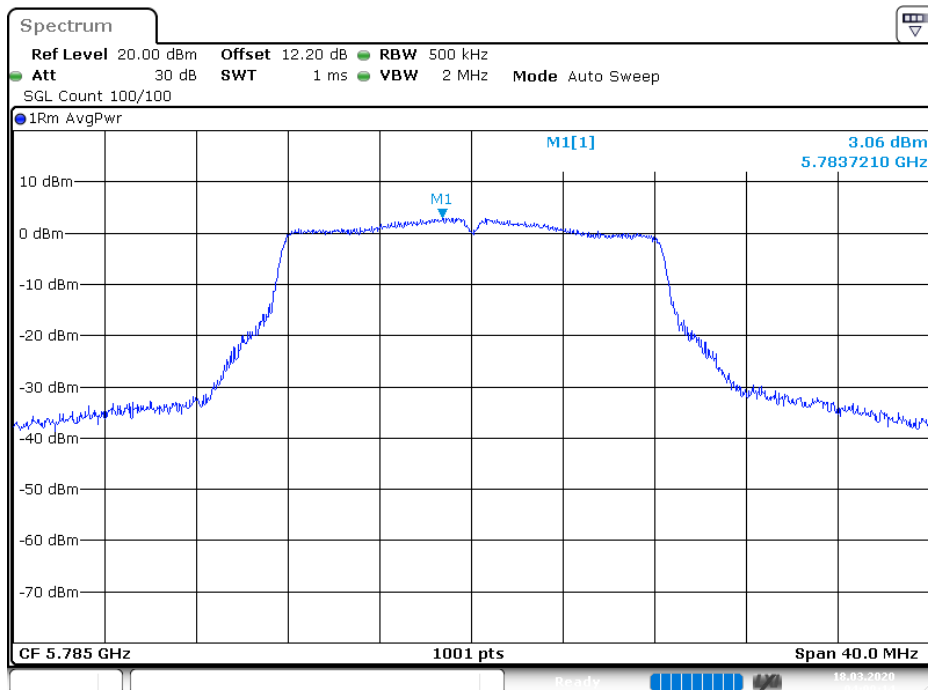
Date: 23.MAY.2020 00:04:18

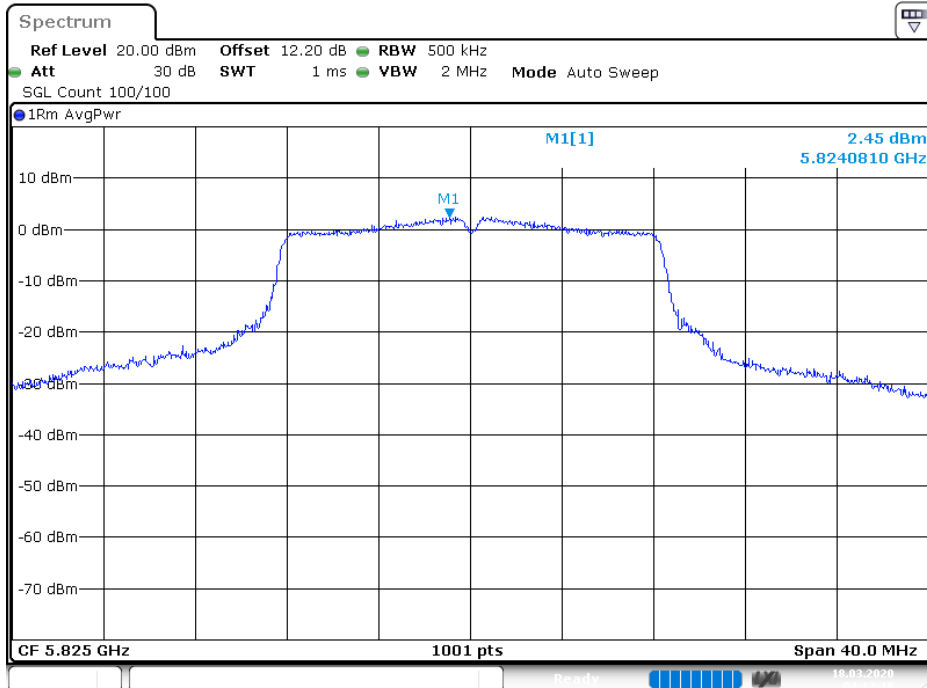
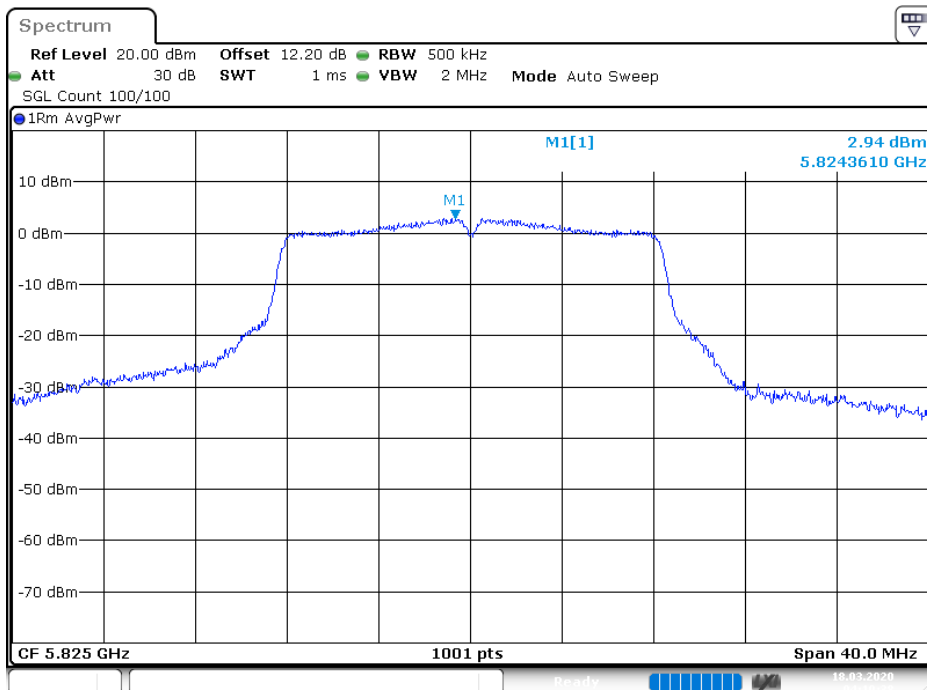
**802.11a 5745MHz, TX1**


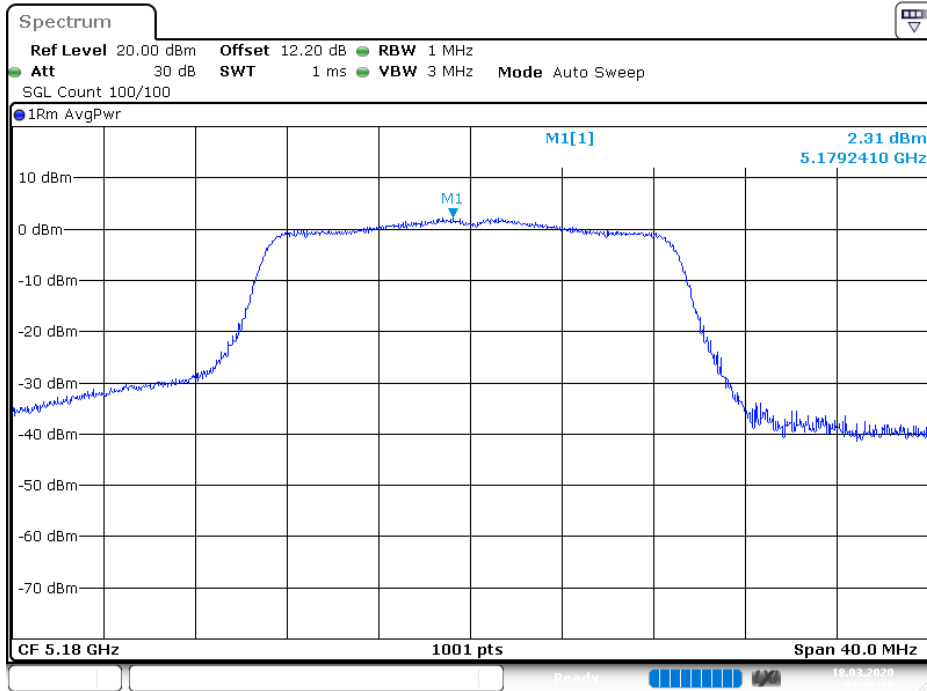
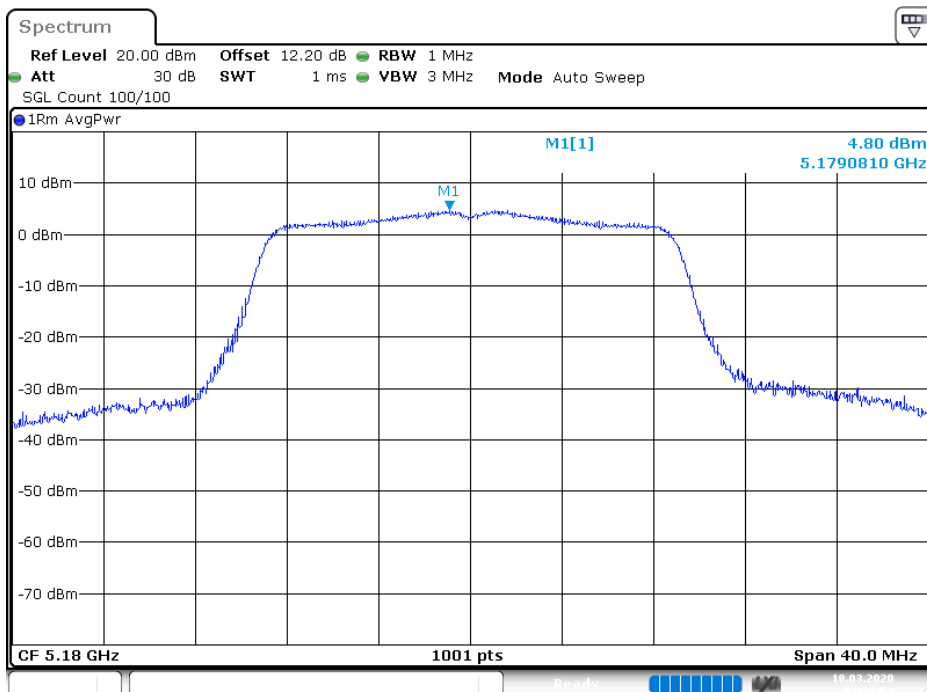
Date: 18.MAR.2020 04:06:16

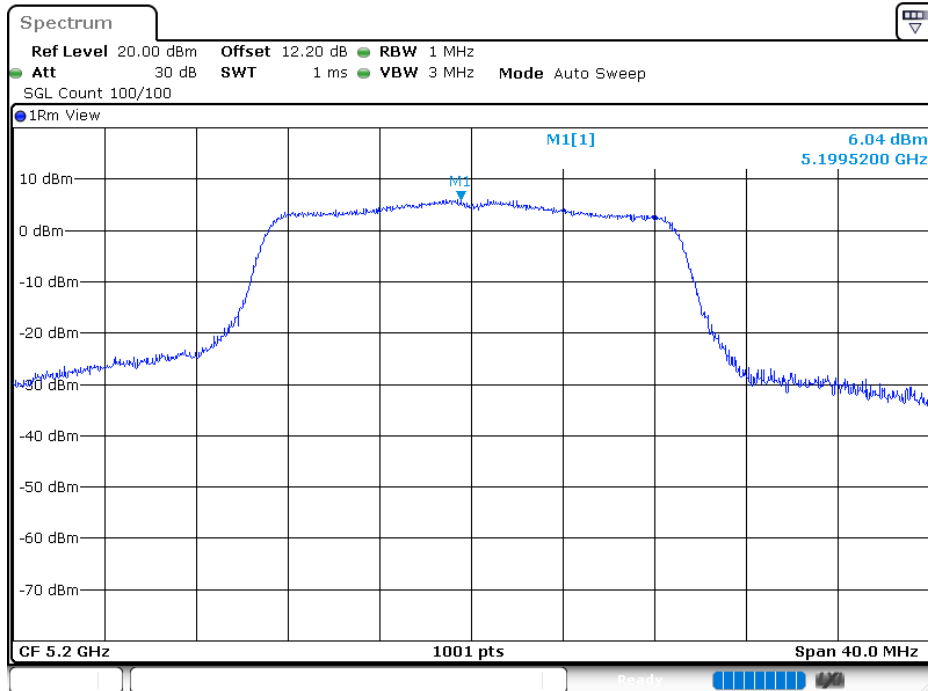
**802.11a 5745MHz, TX2**


Date: 18.MAR.2020 04:04:43

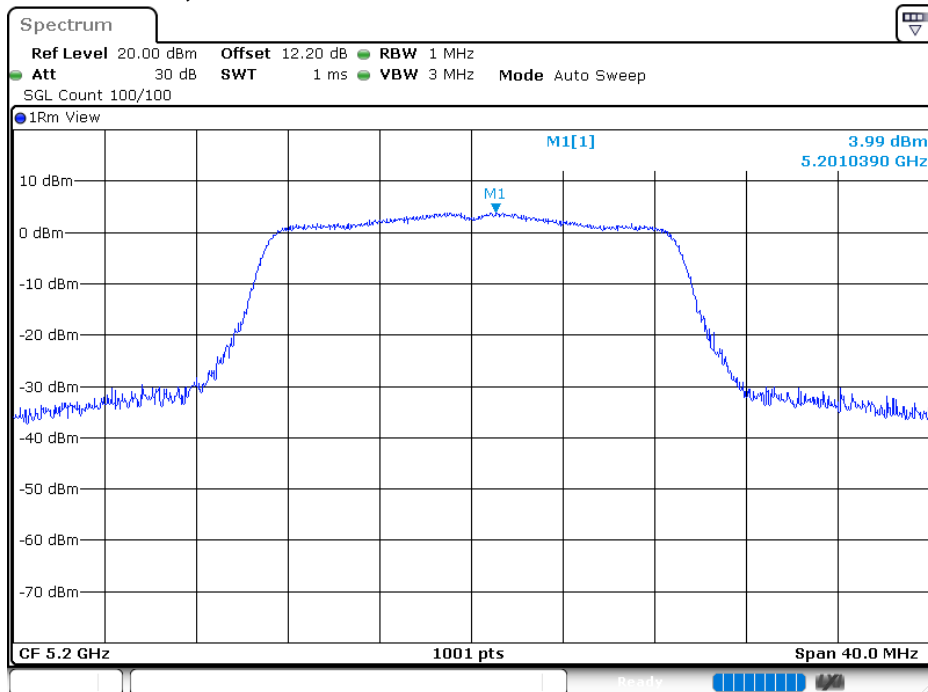
**802.11a 5785MHz, TX1**

**802.11a 5785MHz, TX2**


**802.11a 5825MHz, TX1**

**802.11a 5825MHz, TX2**


**802.11an HT20 5180MHz, TX1**

**802.11an HT20 5180MHz, TX2**


**802.11an HT20 5200MHz, TX1**


Date: 30.APR.2020 14:02:20

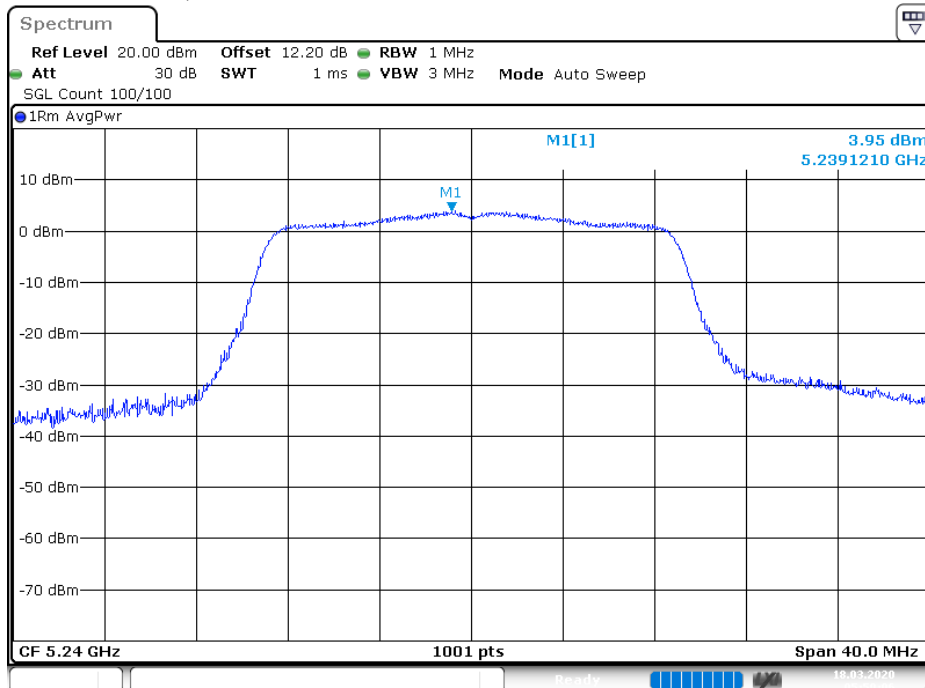
**802.11an HT20 5200MHz, TX2**


Date: 30.APR.2020 14:03:30

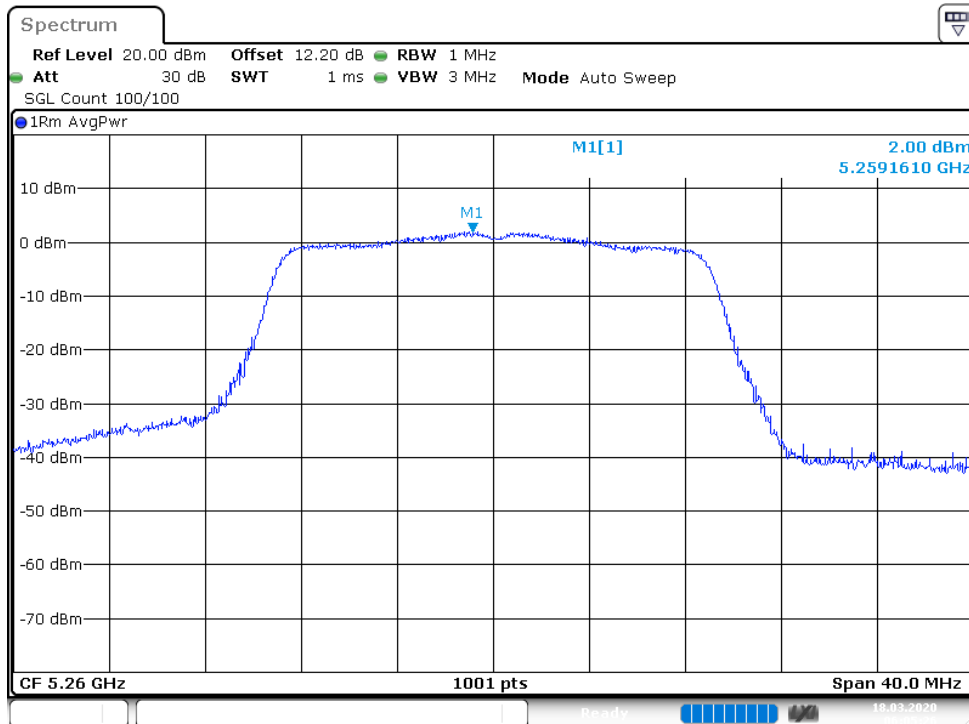


**802.11an HT20 5240MHz, TX1**

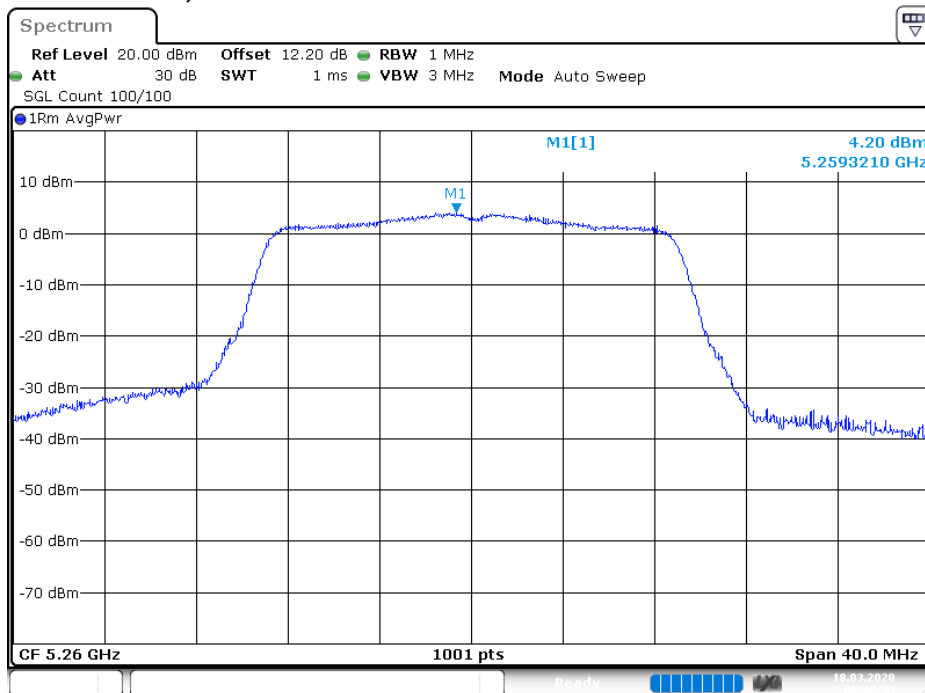

Date: 18.MAR.2020 05:56:01

**802.11an HT20 5240MHz, TX2**


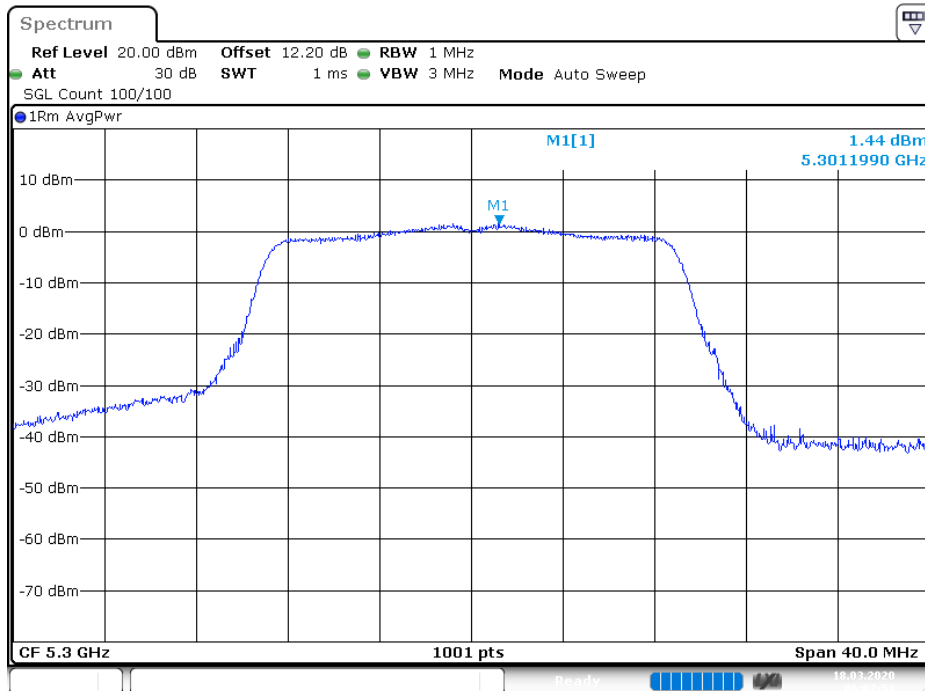
Date: 18.MAR.2020 05:59:06

**802.11an HT20 5260MHz, TX1**


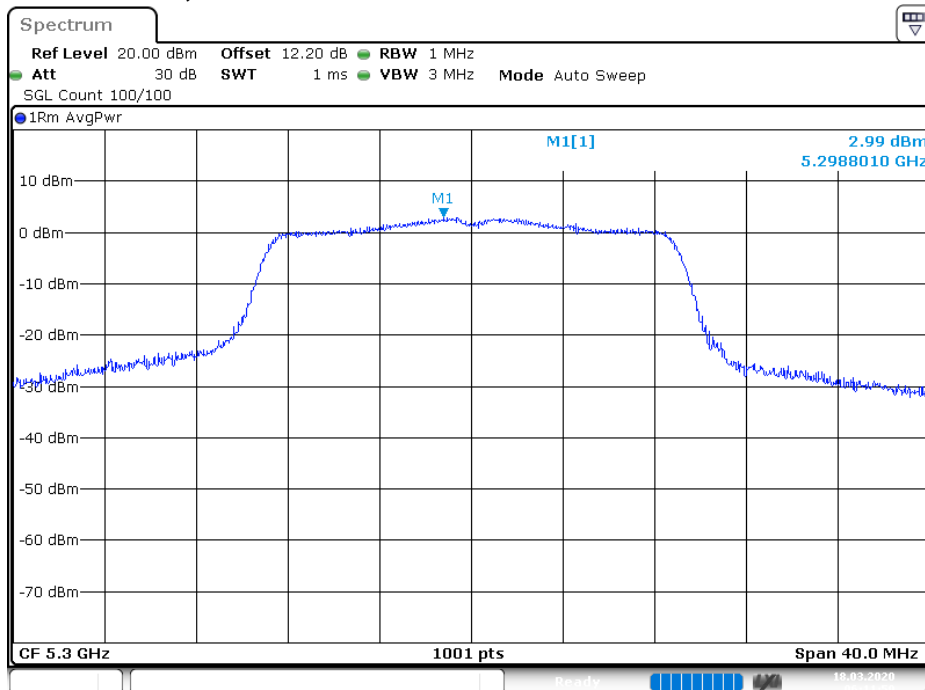
Date: 18.MAR.2020 06:05:26

**802.11an HT20 5260MHz, TX2**


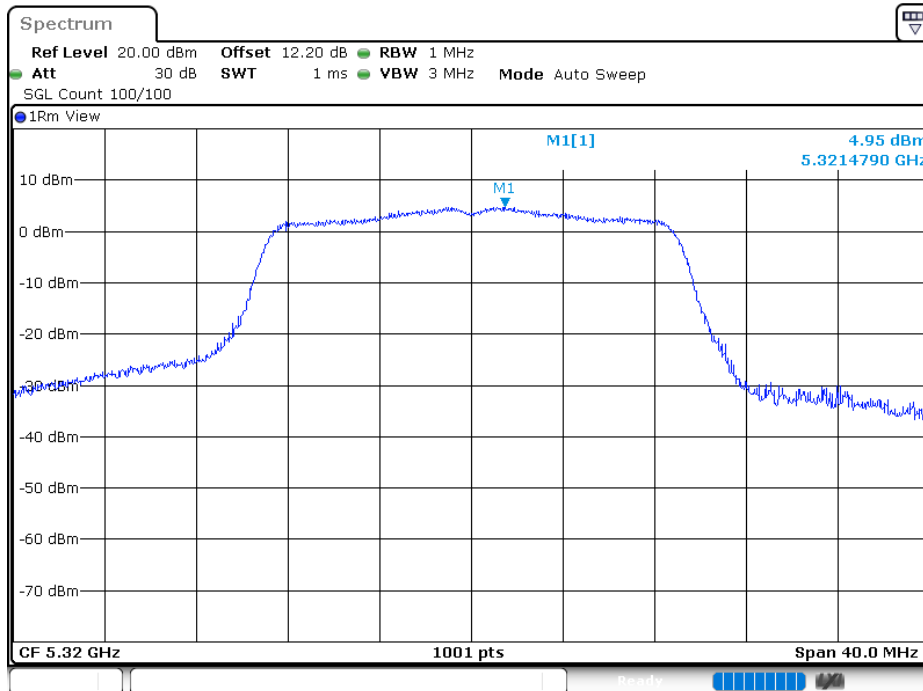
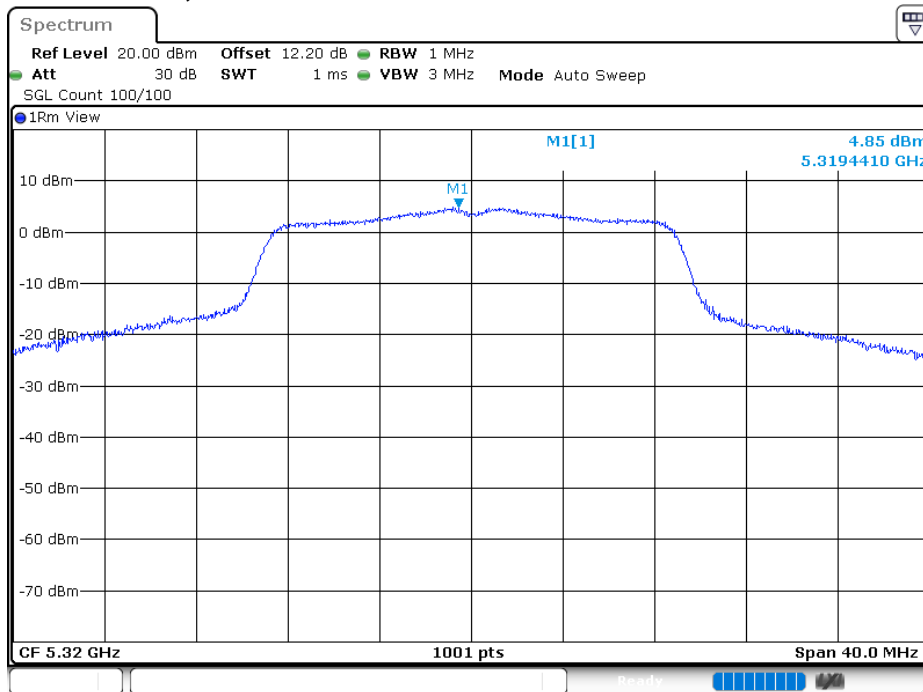
Date: 18.MAR.2020 06:03:00

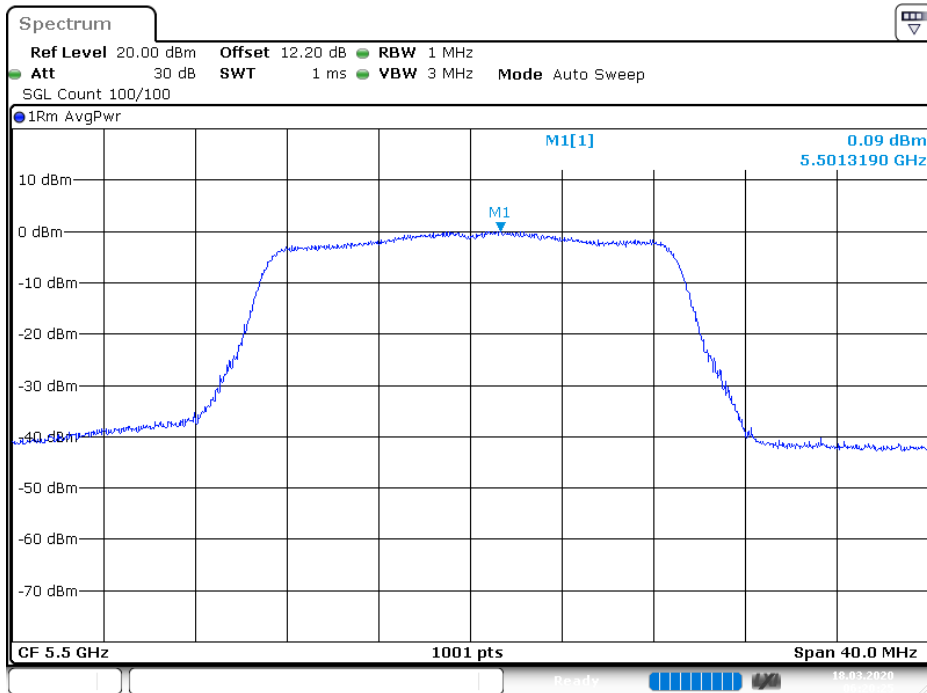
**802.11an HT20 5300MHz, TX1**


Date: 18.MAR.2020 06:07:53

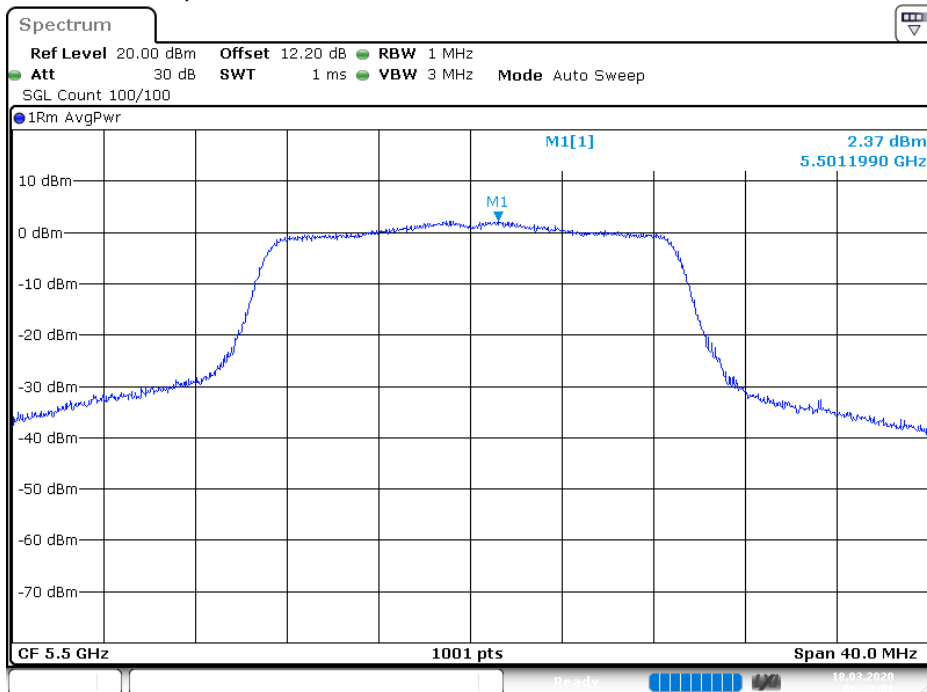
**802.11an HT20 5300MHz, TX2**


Date: 18.MAR.2020 06:12:00

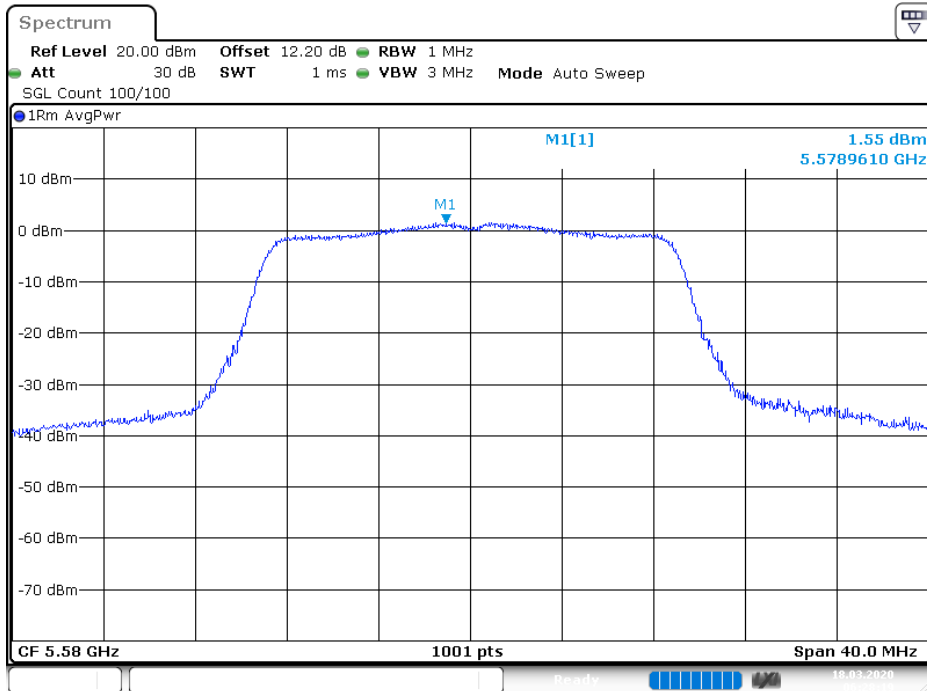
**802.11an HT20 5320MHz, TX1**

**802.11an HT20 5320MHz, TX2**


**802.11ac HT20 5500MHz, TX1**


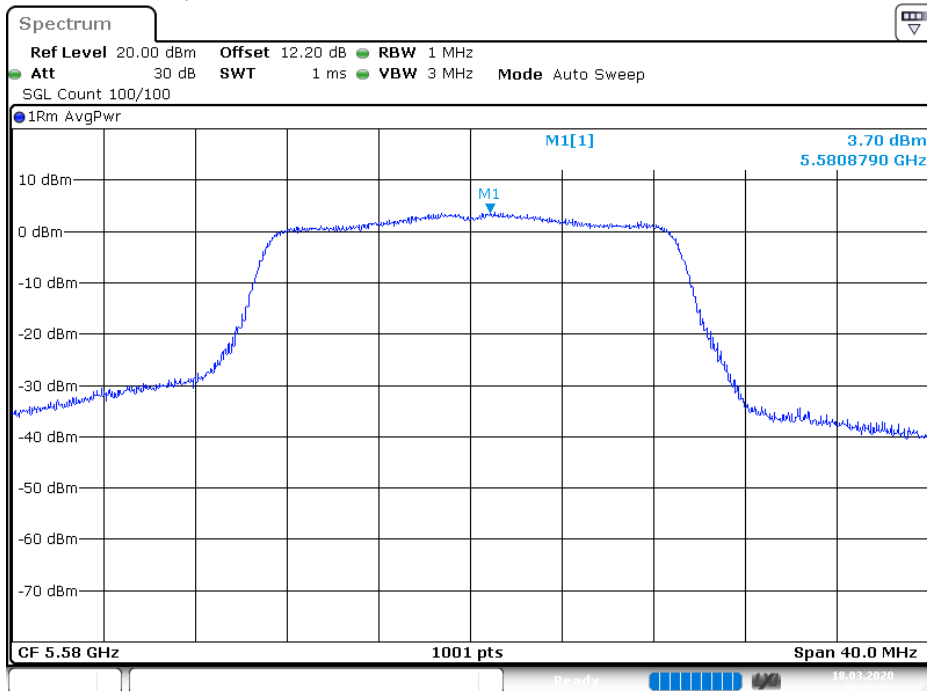
Date: 18.MAR.2020 06:20:25

**802.11an HT20 5500MHz, TX2**


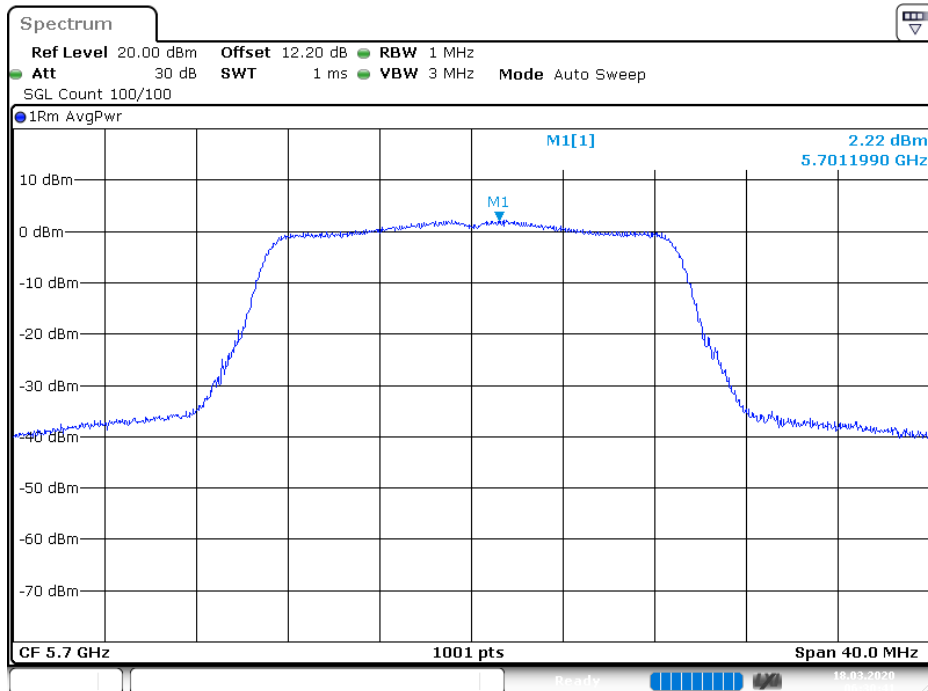
Date: 18.MAR.2020 06:23:02

**802.11an HT20 5580MHz, TX1**


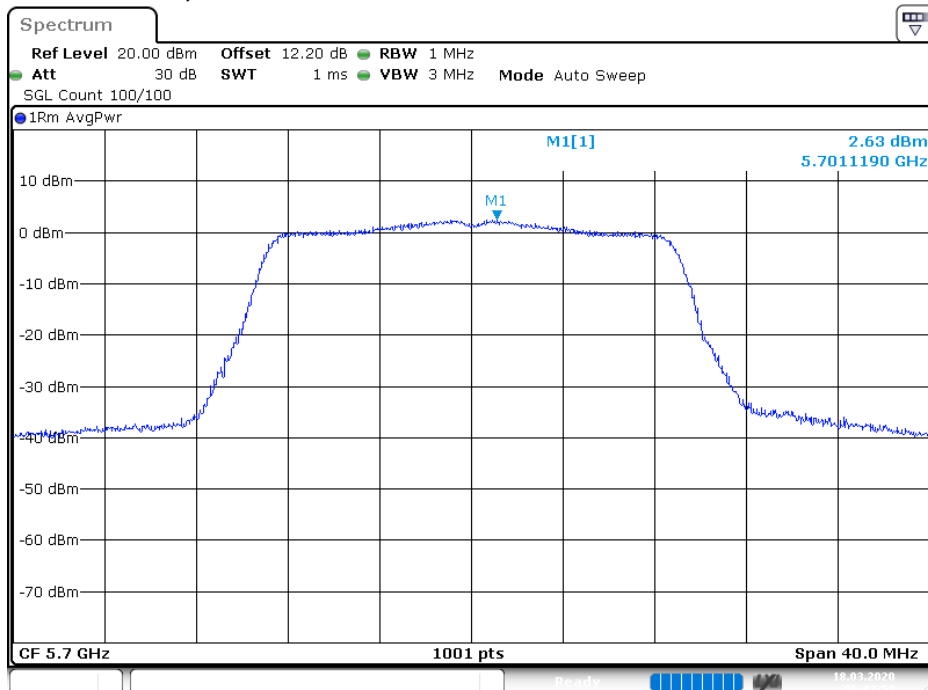
Date: 18.MAR.2020 06:28:20

**802.11an HT20 5580MHz, TX2**


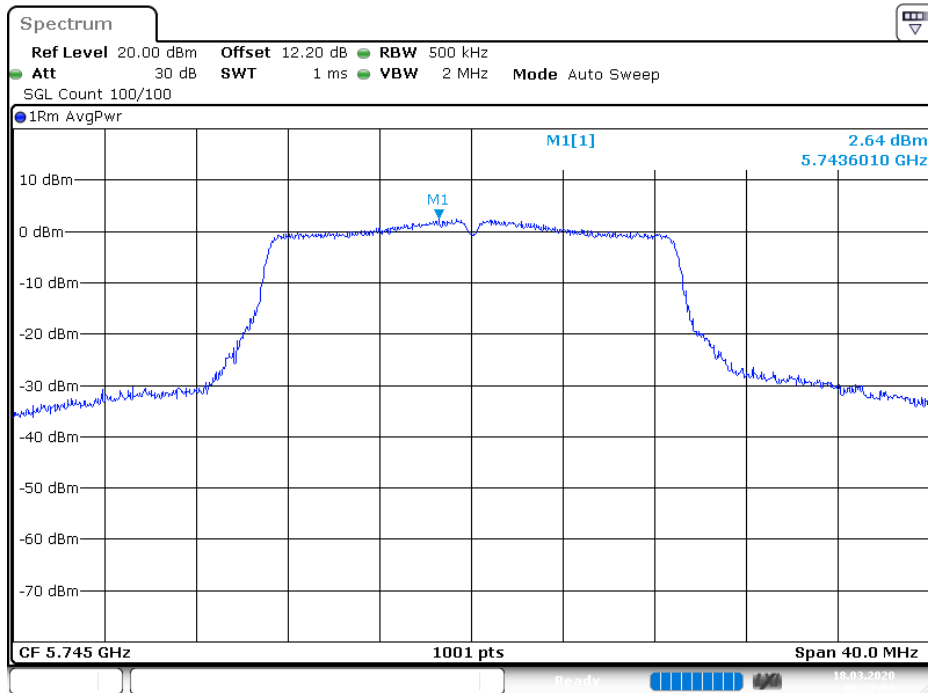
Date: 18.MAR.2020 06:26:03

**802.11an HT20 5700MHz, TX1**


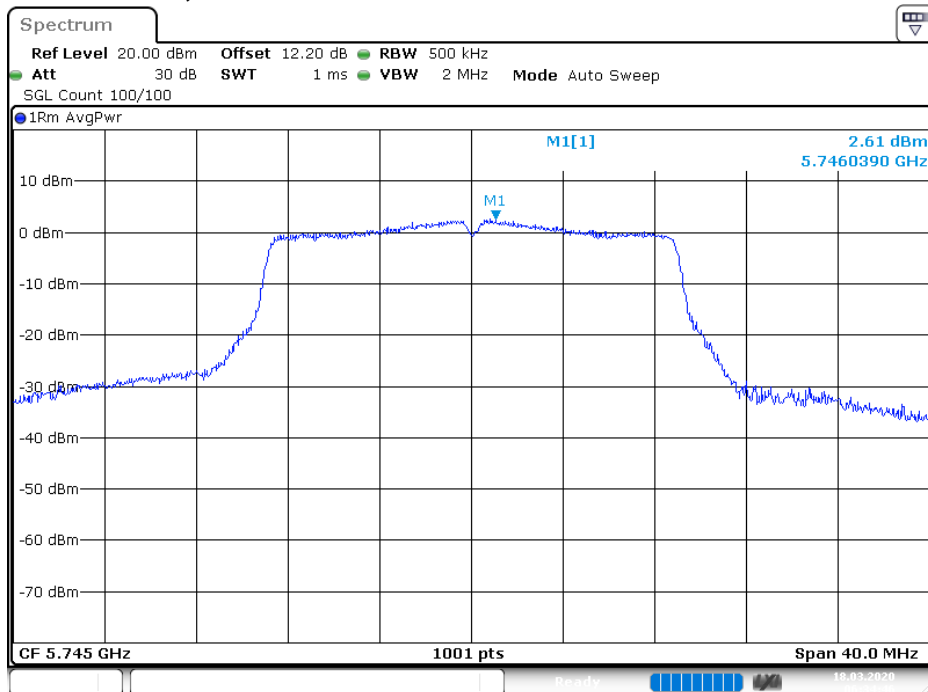
Date: 18.MAR.2020 06:30:41

**802.11an HT20 5700MHz, TX2**


Date: 18.MAR.2020 06:32:52

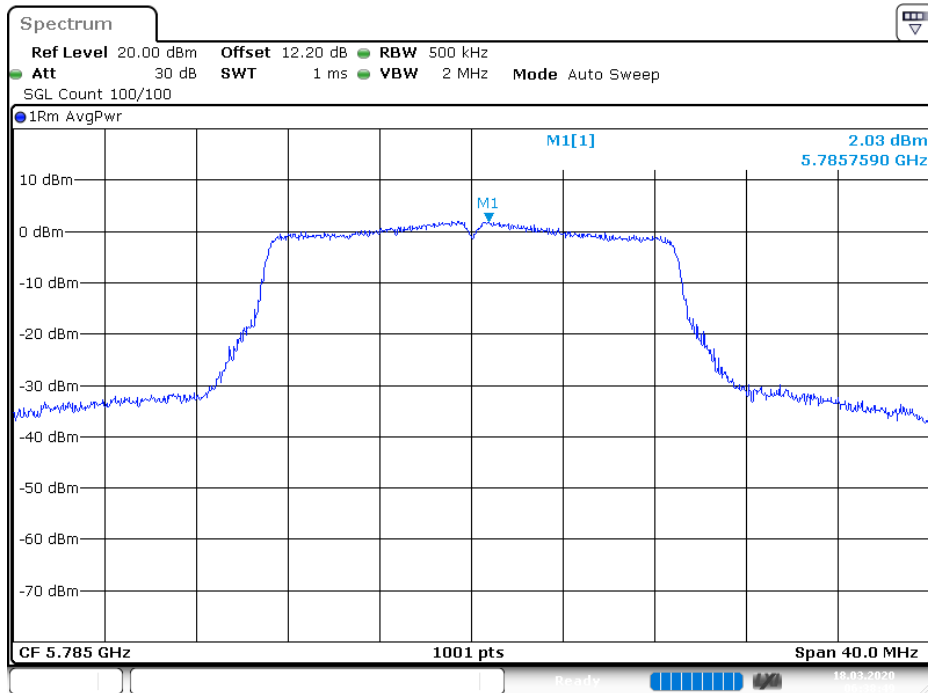
**802.11an HT20 5745MHz, TX1**


Date: 18.MAR.2020 06:37:05

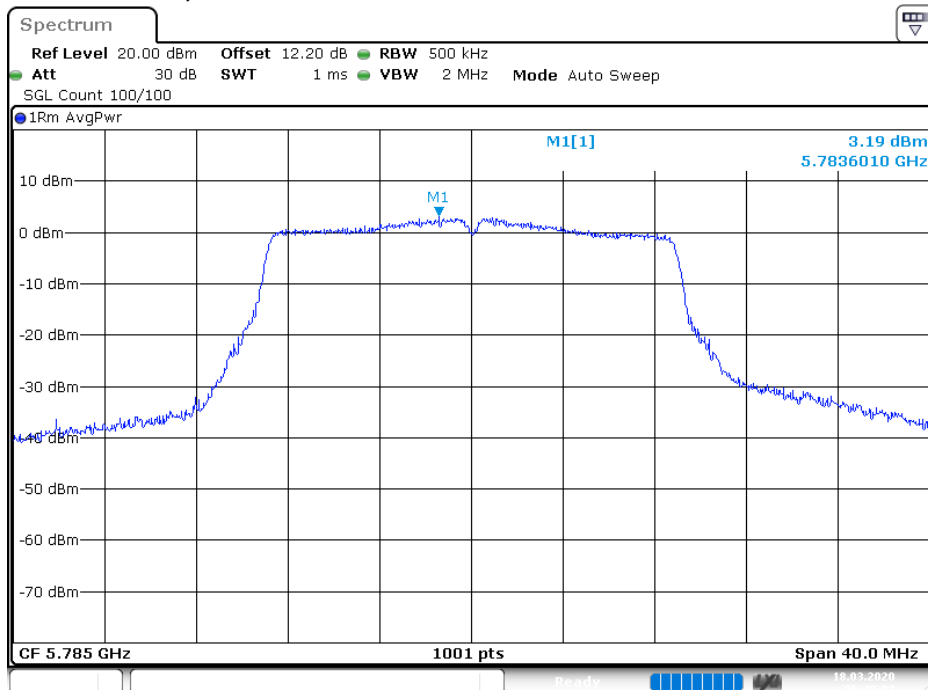
**802.11an HT20 5745MHz, TX2**


Date: 18.MAR.2020 06:34:47

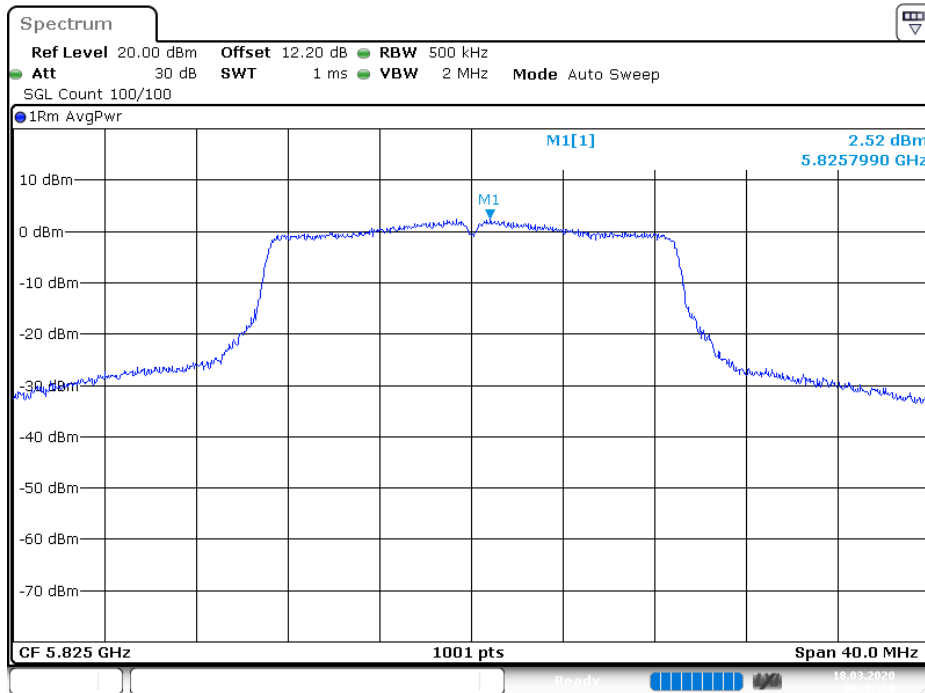


**802.11an HT20 5785MHz, TX1**


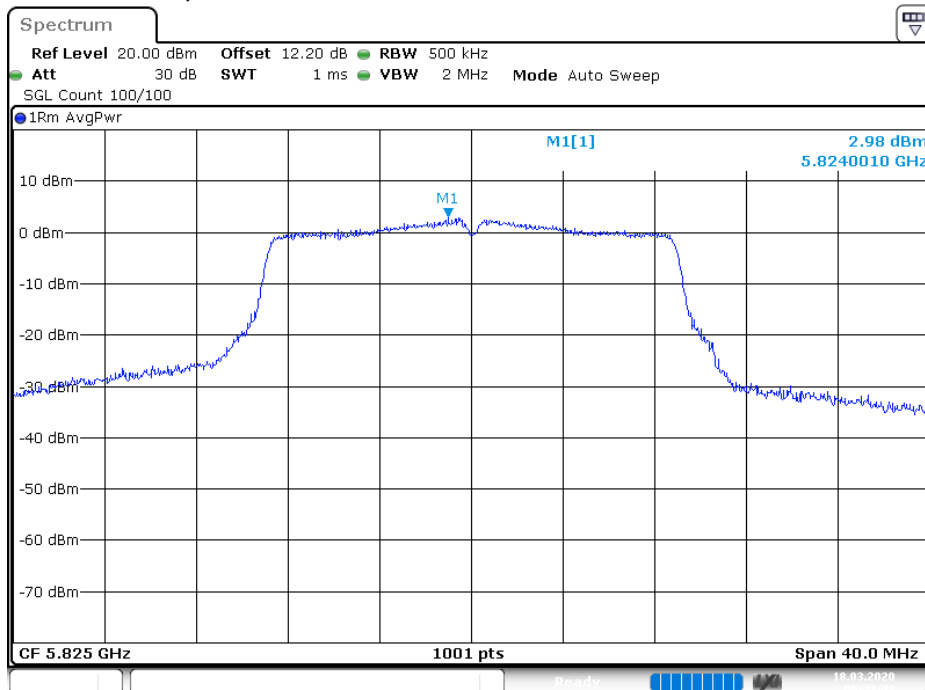
Date: 18.MAR.2020 06:38:50

**802.11an HT20 5785MHz, TX2**


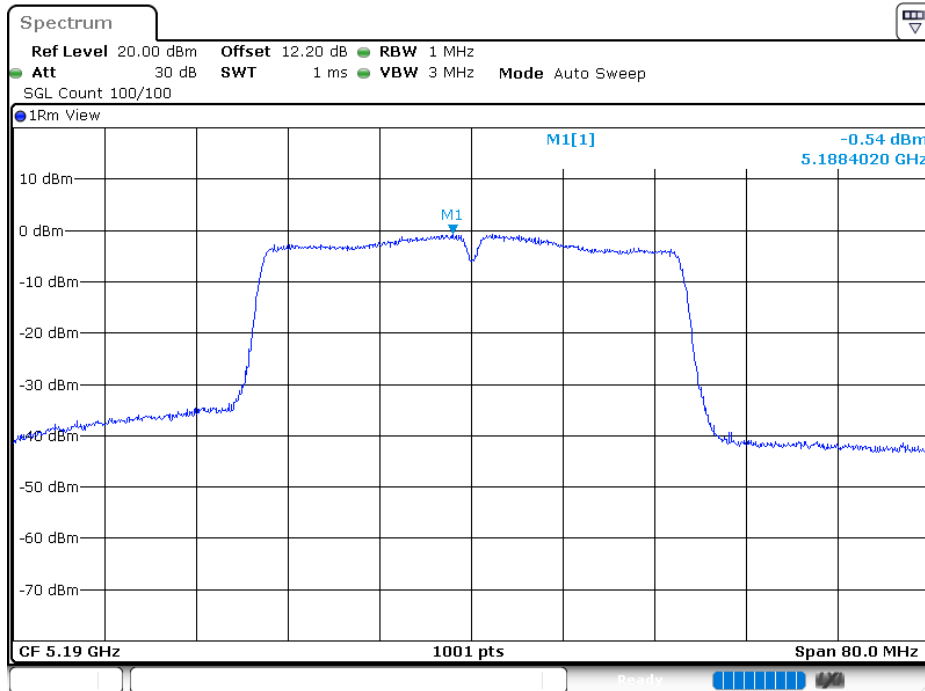
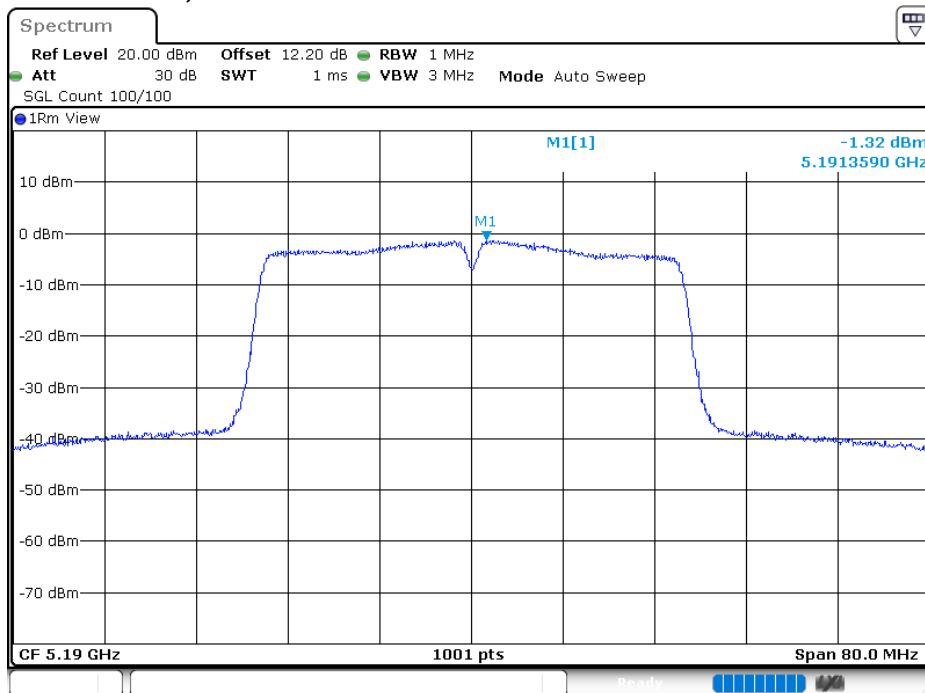
Date: 18.MAR.2020 06:40:04

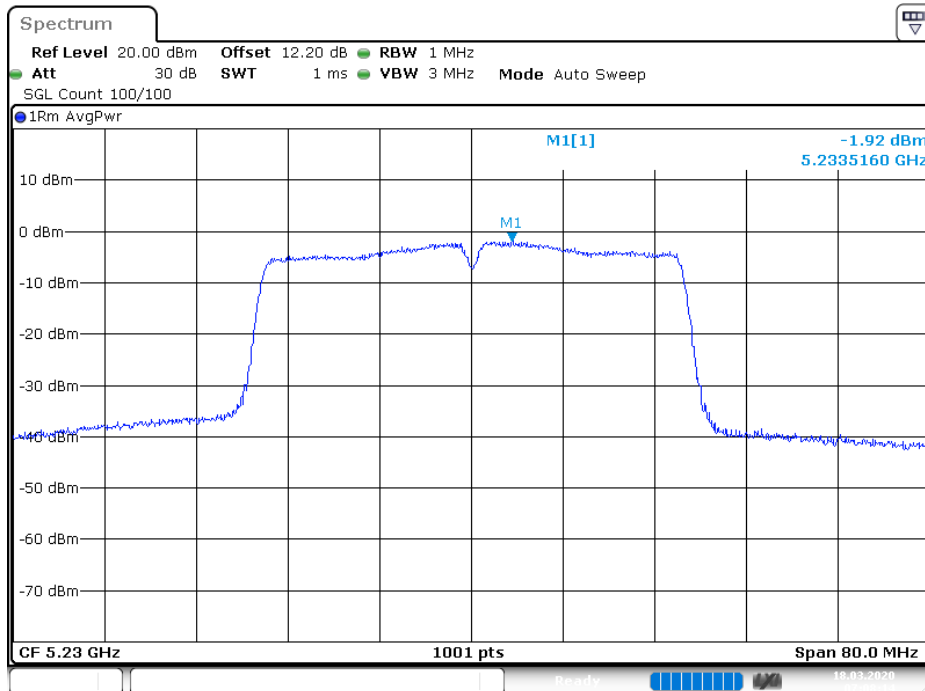
**802.11an HT20 5825MHz, TX1**


Date: 18.MAR.2020 06:43:10

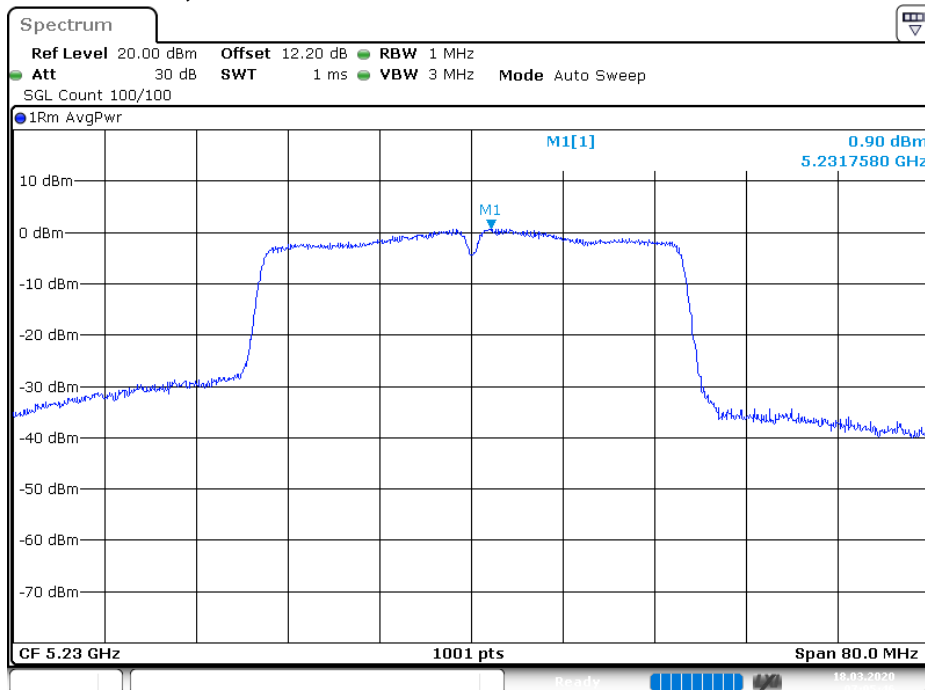
**802.11an HT20 5825MHz, TX2**


Date: 18.MAR.2020 06:41:43

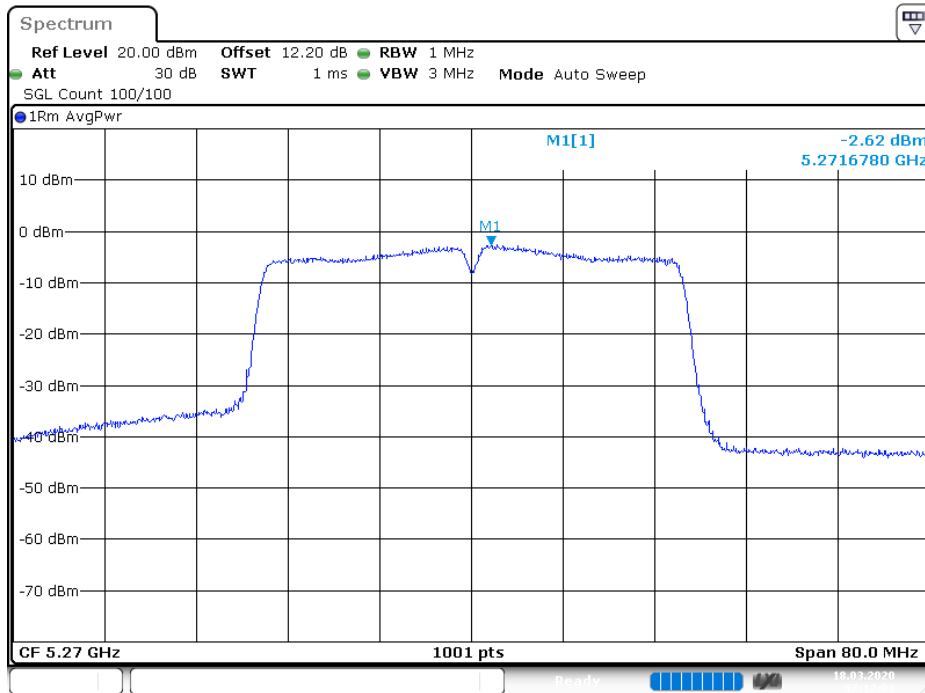
**802.11an HT40 5190MHz, TX1**

**802.11an HT40 5190MHz, TX2**


**802.11an HT40 5230MHz, TX1**


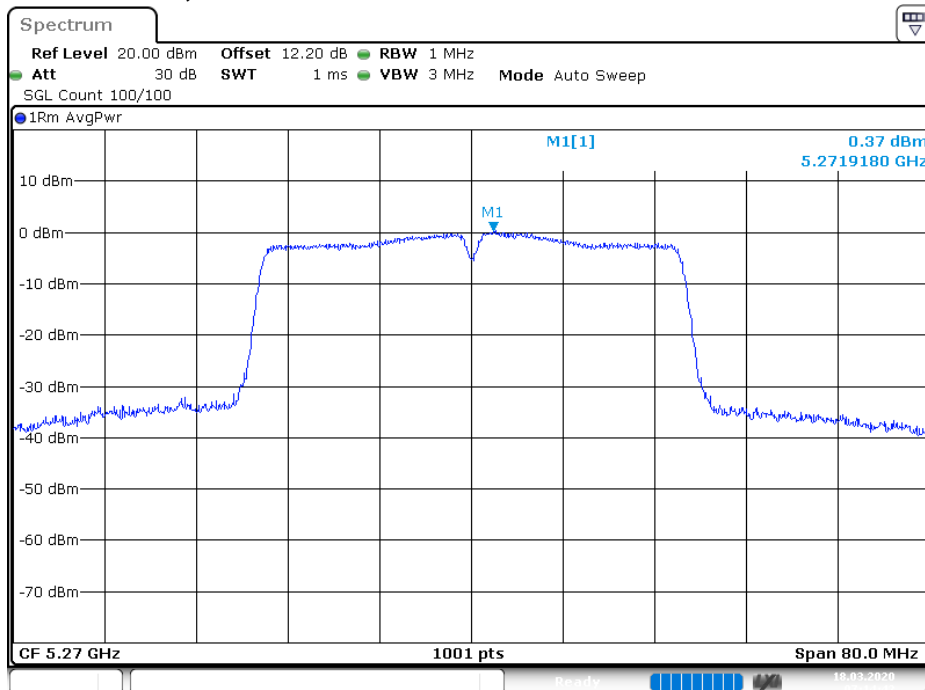
Date: 18.MAR.2020 07:08:14

**802.11an HT40 5230MHz, TX2**


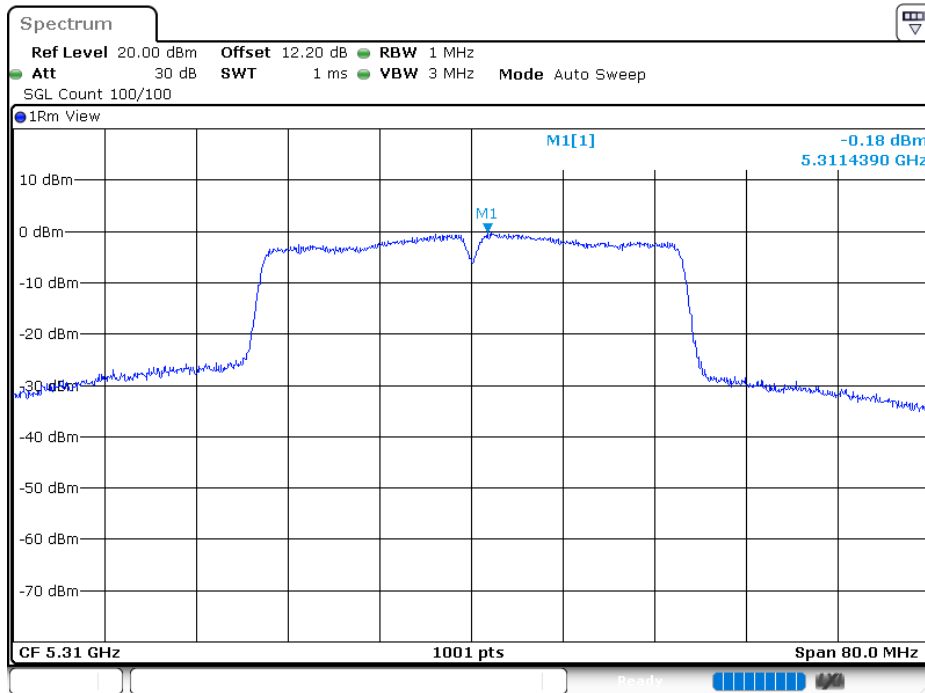
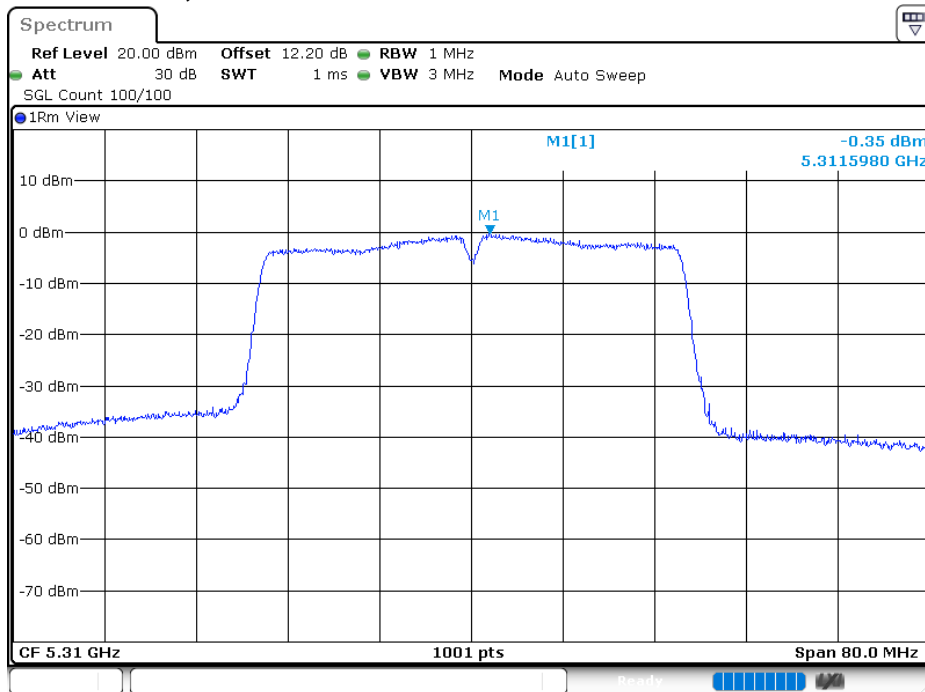
Date: 18.MAR.2020 07:05:47

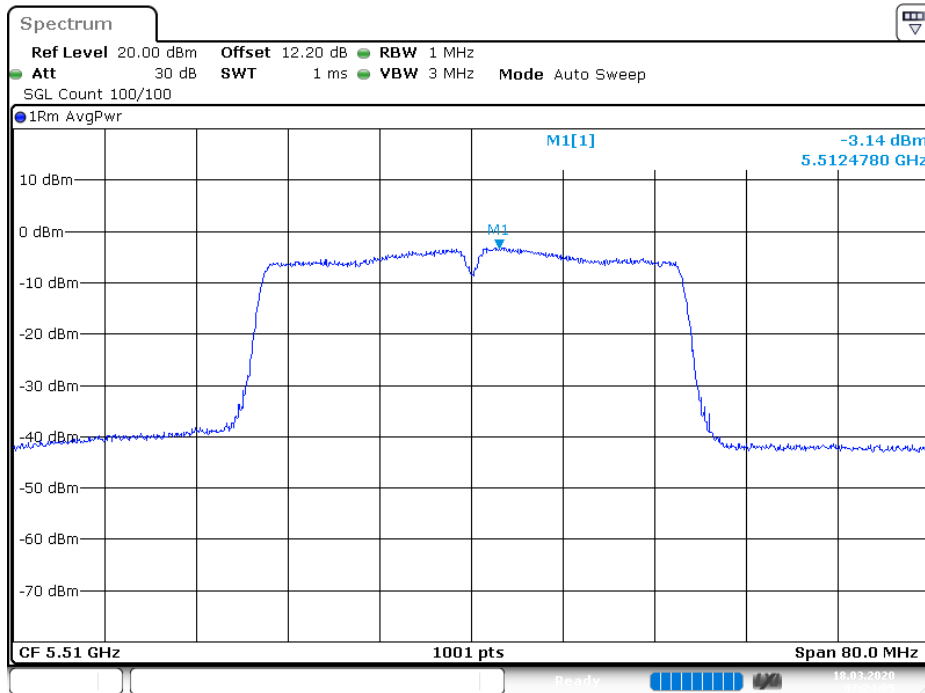
**802.11an HT40 5270MHz, TX1**


Date: 18.MAR.2020 07:12:03

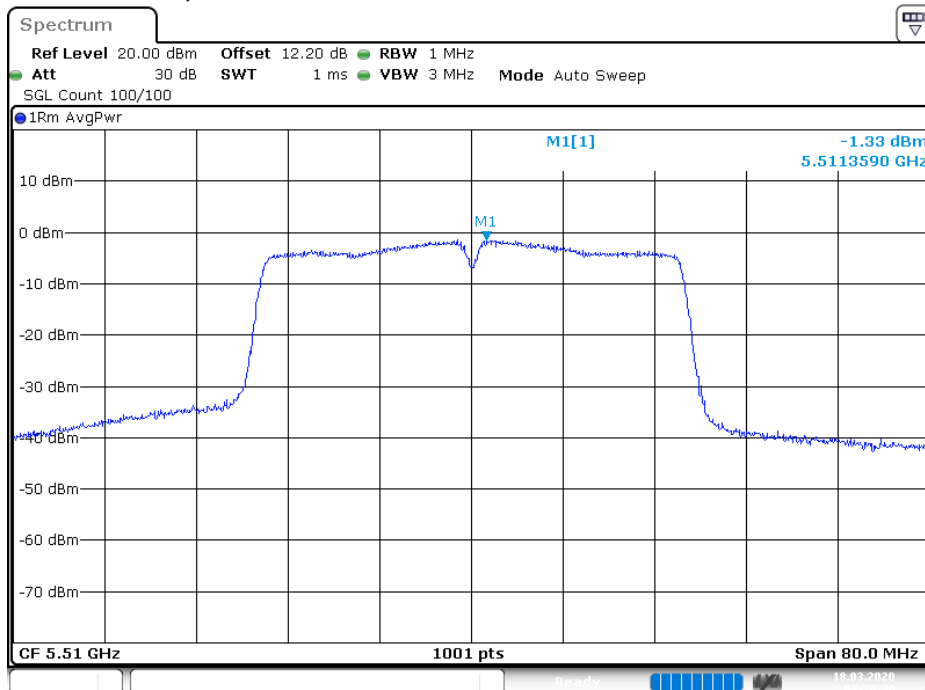
**802.11an HT40 5270MHz, TX2**


Date: 18.MAR.2020 07:14:42

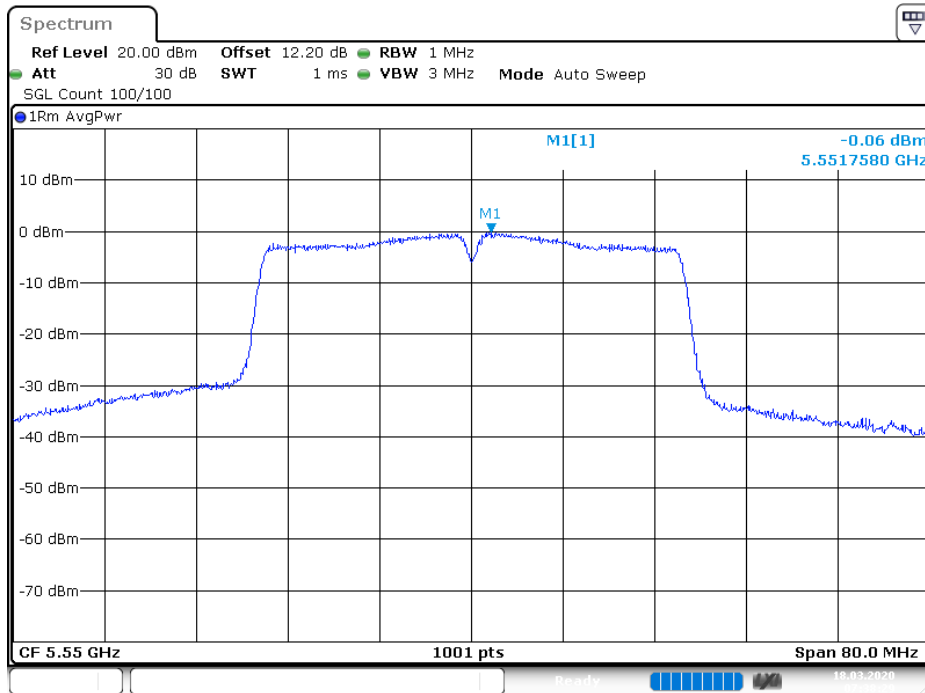
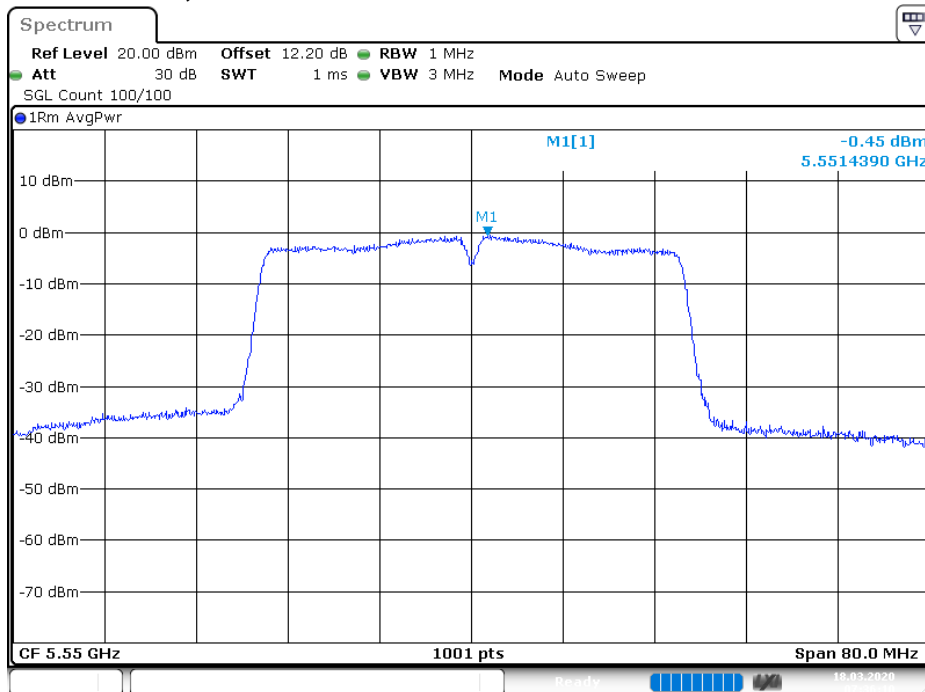
**802.11an HT40 5310MHz, TX1**

**802.11an HT40 5310MHz, TX2**


**802.11an HT40 5510MHz, TX1**


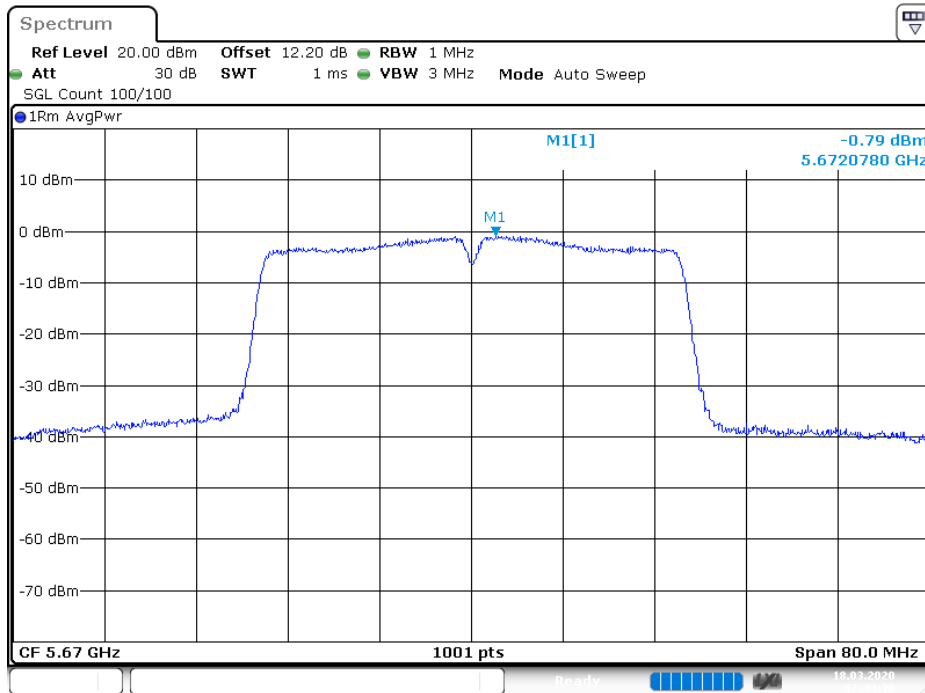
Date: 18.MAR.2020 07:24:05

**802.11an HT40 5510MHz, TX2**


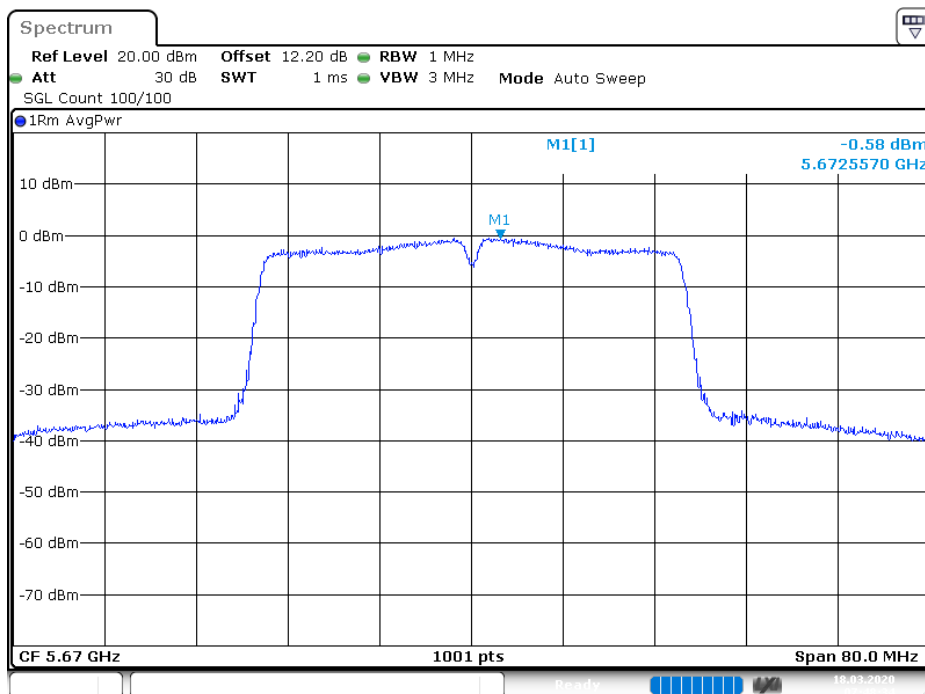
Date: 18.MAR.2020 07:26:41

**802.11an HT40 5550MHz, TX1**

**802.11an HT40 5550MHz, TX2**


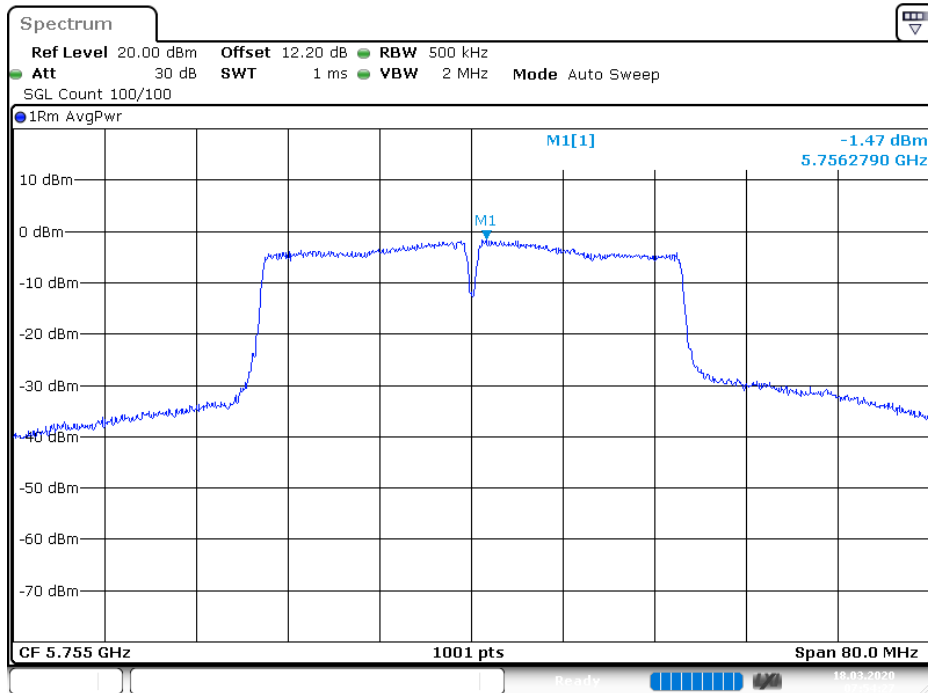


**802.11an HT40 5670MHz, TX1**


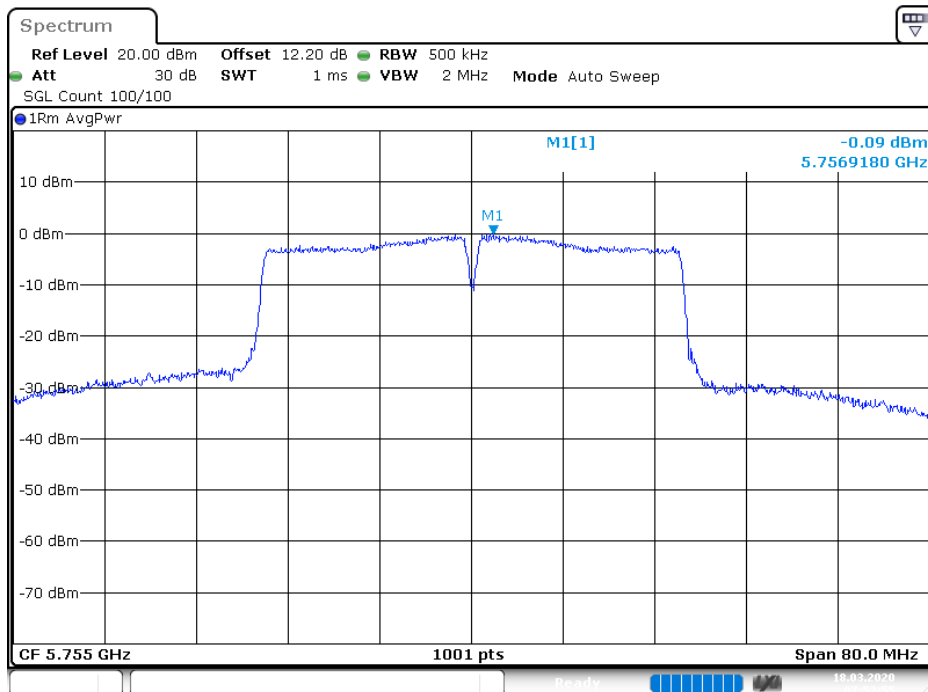
Date: 18.MAR.2020 07:44:30

**802.11an HT40 5670MHz, TX2**


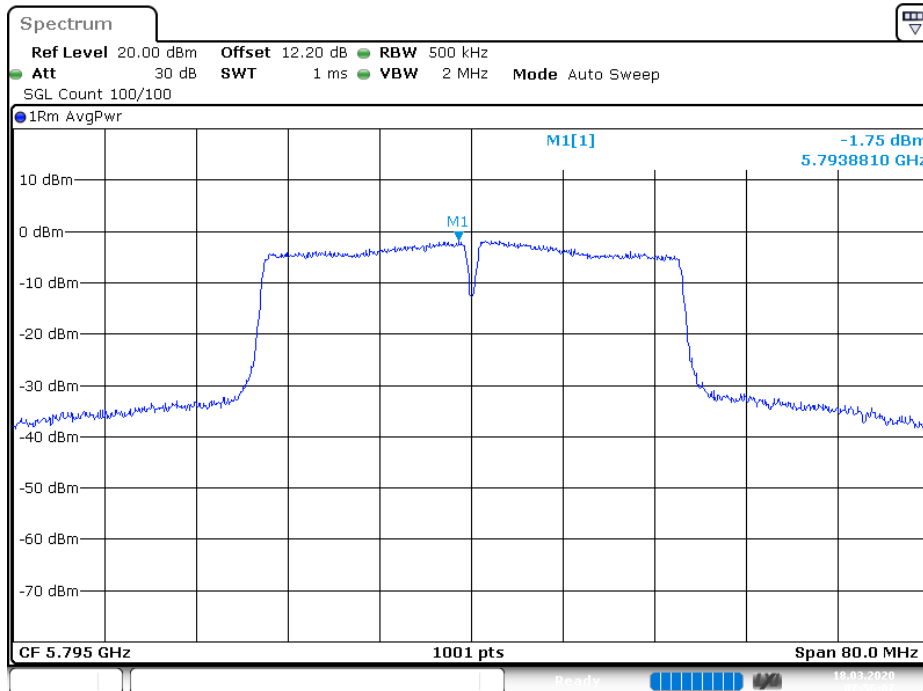
Date: 18.MAR.2020 07:48:35

**802.11an HT40 5755MHz, TX1**


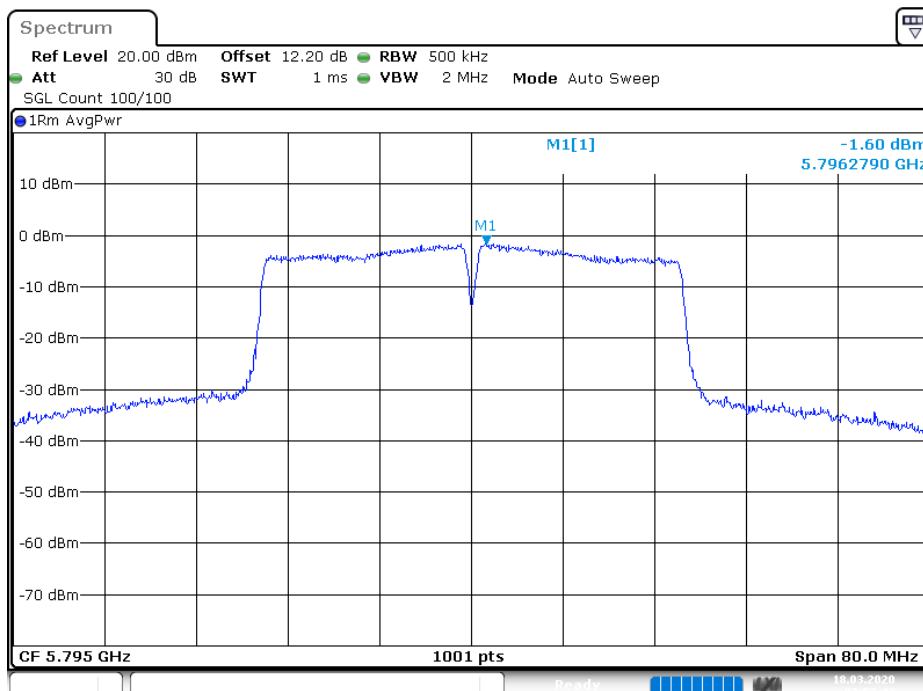
Date: 18.MAR.2020 07:54:28

**802.11an HT40 5755MHz, TX2**


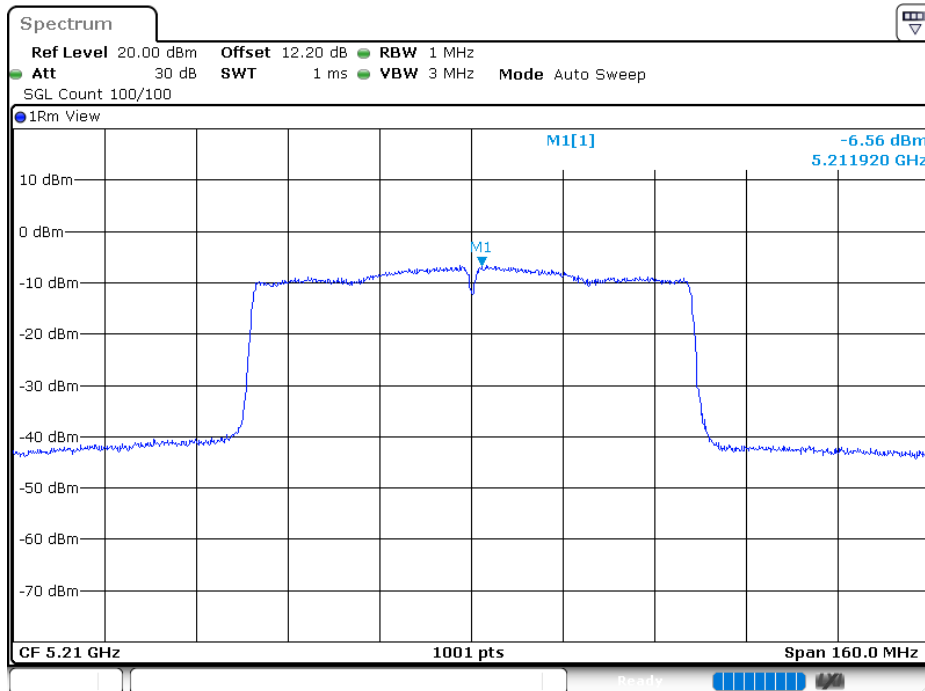
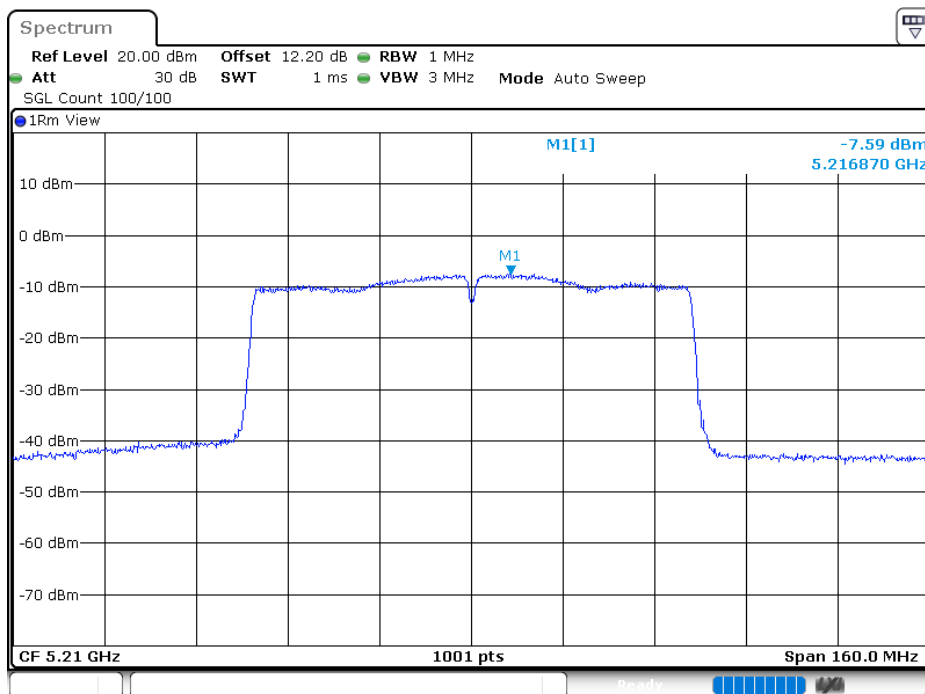
Date: 18.MAR.2020 07:52:56

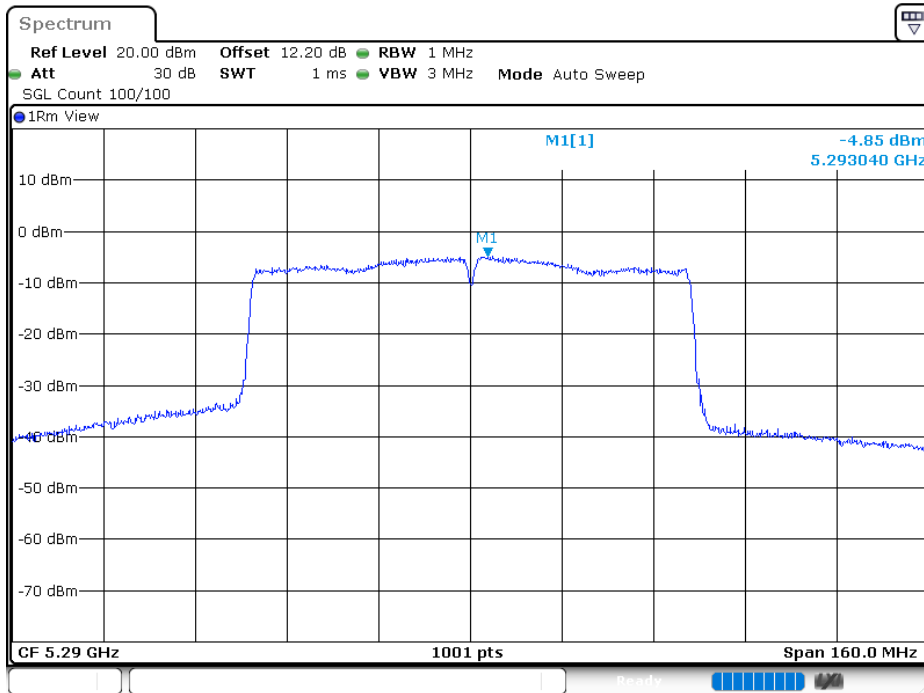
**802.11an HT40 5795MHz, TX1**


Date: 18.MAR.2020 07:56:08

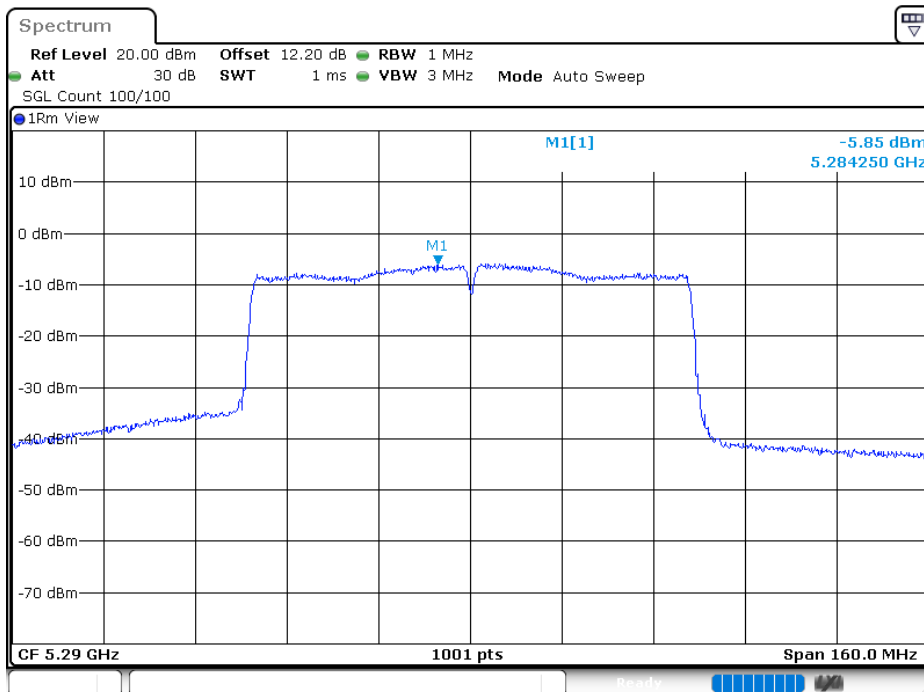
**802.11an HT40 5795MHz, TX2**


Date: 18.MAR.2020 07:57:43

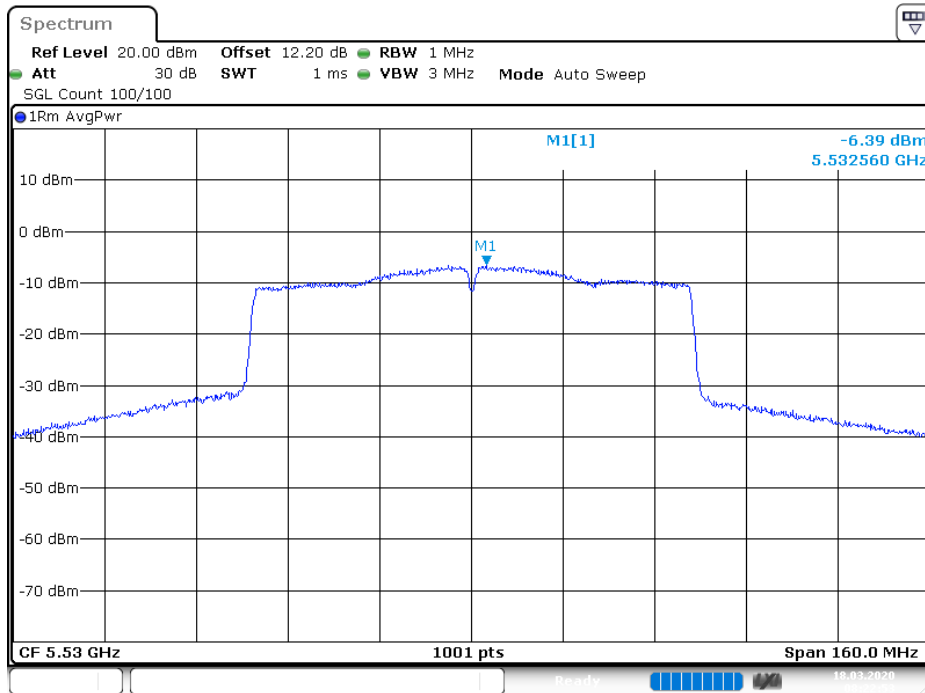
**802.11ac VHT80 5210MHz, TX1**

**802.11ac VHT80 5210MHz, TX2**


**802.11ac VHT80 5290MHz, TX1**


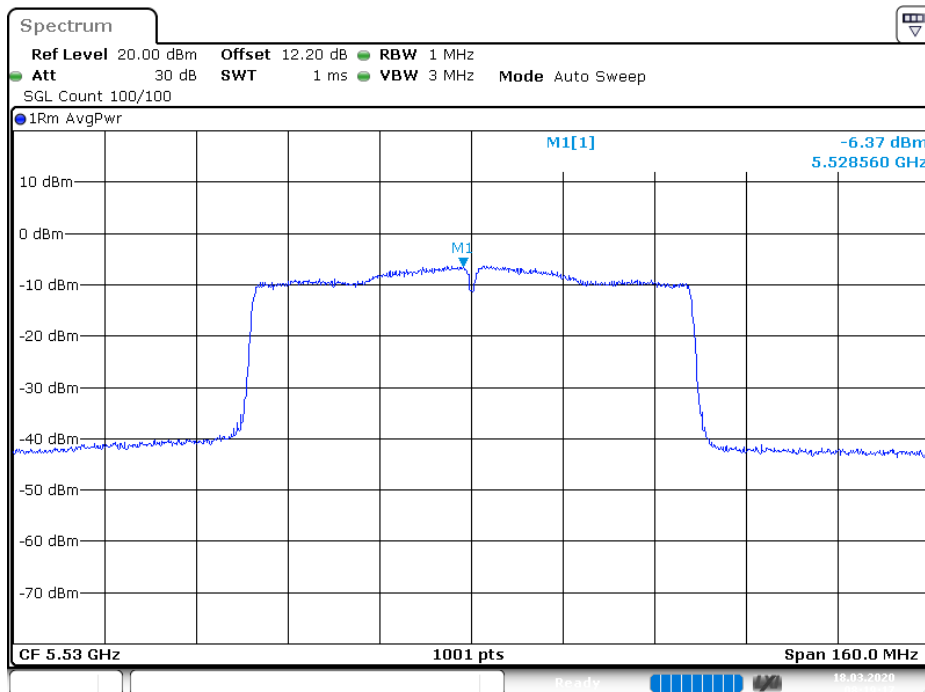
Date: 6.MAY.2020 14:35:15

**802.11ac VHT80 5290MHz, TX2**


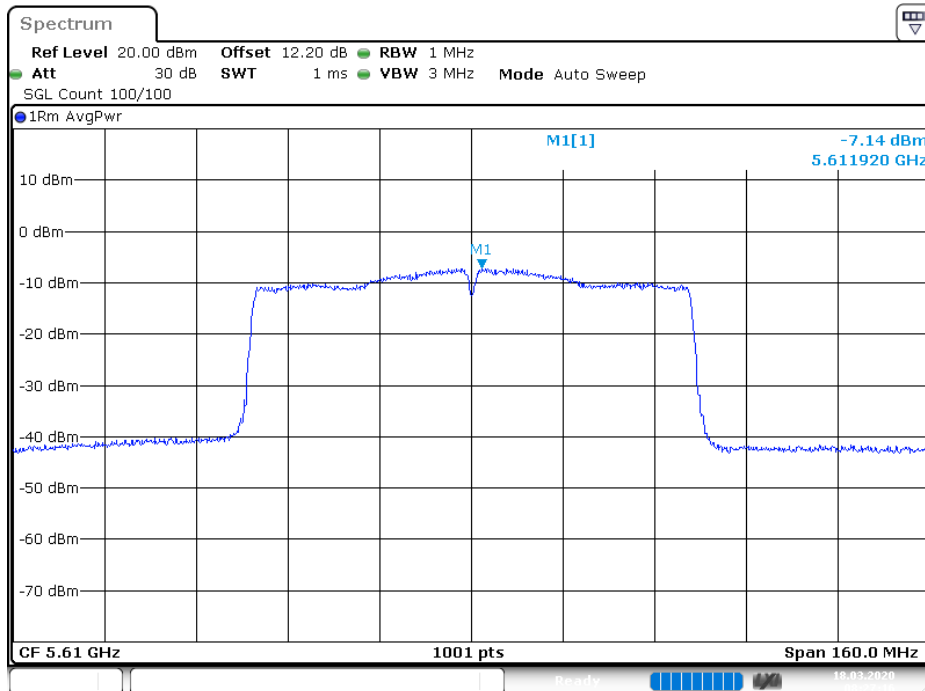
Date: 6.MAY.2020 14:35:52

**802.11ac VHT80 5530MHz, TX1**


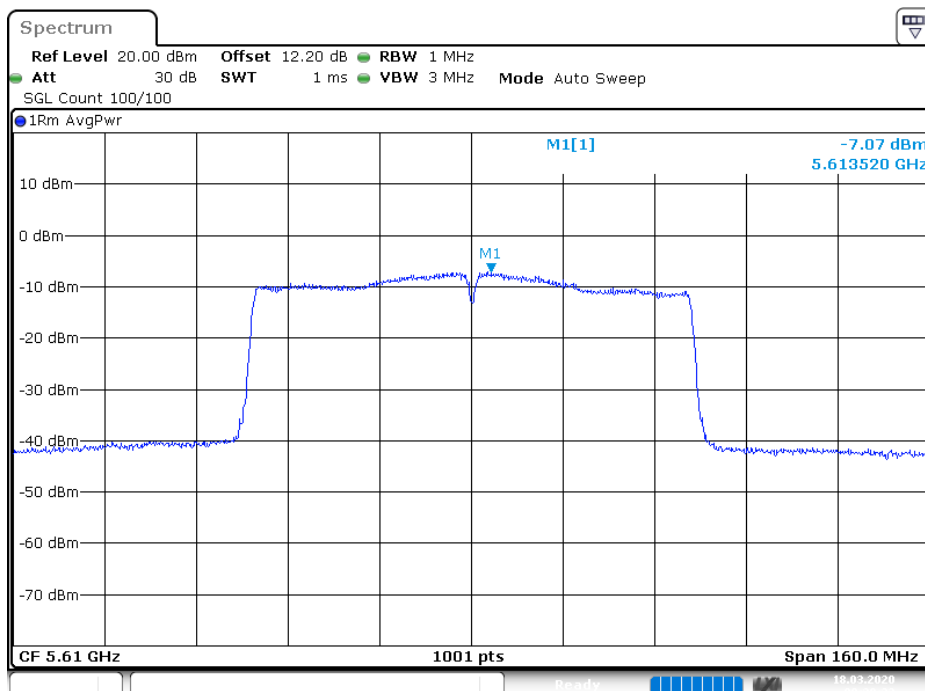
Date: 18.MAR.2020 08:22:53

**802.11ac VHT80 5530MHz, TX2**


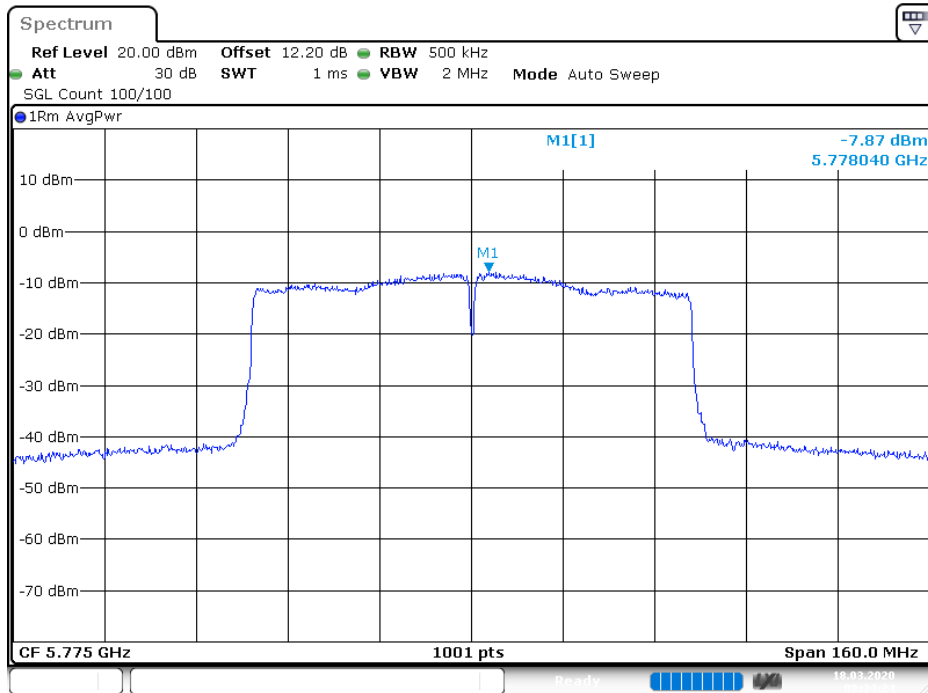
Date: 18.MAR.2020 08:19:17

**802.11ac VHT80 5610MHz, TX1**


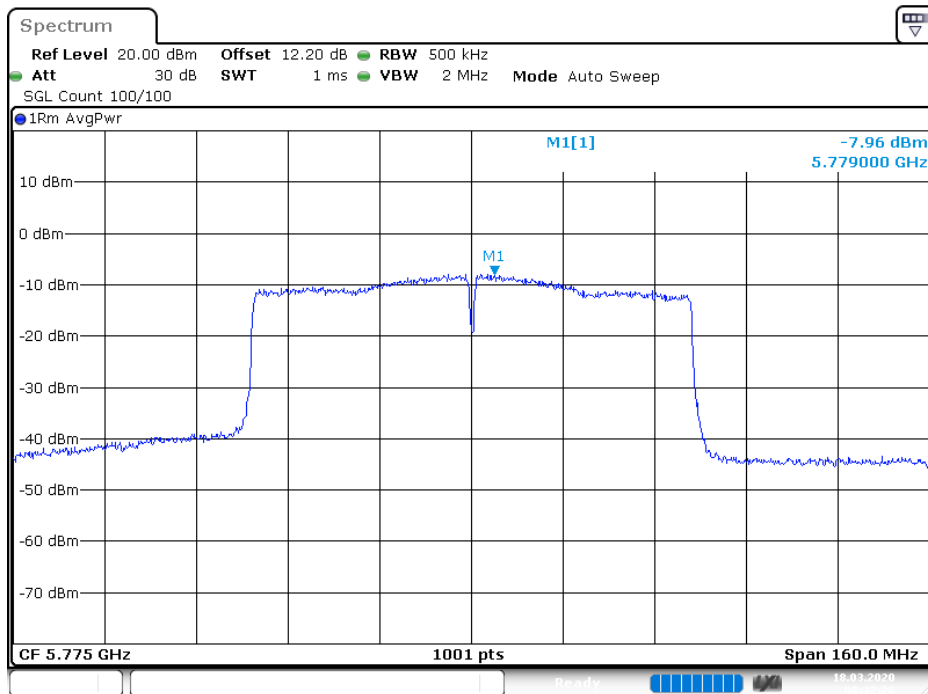
Date: 18.MAR.2020 08:27:16

**802.11ac VHT80 5610MHz, TX2**


Date: 18.MAR.2020 08:29:32

**802.11ac VHT80 5775MHz, TX1**


Date: 18.MAR.2020 08:34:24

**802.11ac VHT80 5775MHz, TX2**


Date: 18.MAR.2020 08:32:26



**Prüfbericht- Nr.: 50349169 001**  
Test Report No.Seite 144 von 158  
Page 144 of 158**5.1.7 Frequency Stability Measurement****RESULT:****Passed**

Test standard : FCC 15.407(g)  
Basic standard : ANSI C63.10: 2013  
Limits : ±20ppm  
Kind of test site : Shielded room

**Test setup**

Test Band : Band 1, Band 2, Band 3, Band 4  
Operation mode : A

Remark: Measure with un-modulation mode.

**Table 13: Test result of Frequency Stability for TX1**
**Band 1**

Freq(MHz)	5200			
Voltage (V)	Measurement Frequency (MHz)			Deviation(ppm)
3.3	5200.022			4.231
3	5200.03734			7.181
2.7	5200.022			4.231
Min Temp°C	0	2	5	10
50	5200.0356	5200.0356	5200.0356	5200.03531
40	5200.02171	5200.022	5200.022	5200.022
30	5200.01795	5200.01795	5200.01795	5200.01795
20	5200.03734	5200.02287	5200.022	5200.02171
10	5200.02865	5200.02865	5200.02865	5200.02865
0	5200.04052	5200.04052	5200.04052	5200.04052
-10	5200.05268	5200.05268	5200.05268	5200.05268
-20	5200.05847	5200.05847	5200.05847	5200.05847
Limit(ppm)	20			
Max. Deviation (ppm)	11.244	11.244	11.244	11.244

**Band 2**

Freq(MHz)	5300			
Voltage (V)	Measurement Frequency (MHz)			Deviation(ppm)
3.3	5300.02171			4.096
3	5300.02229			4.206
2.7	5300.02171			4.096
Min Temp°C	0	2	5	10
50	5300.03618	5300.03792	5300.03821	5300.03792
40	5300.02315	5300.02171	5300.02142	5300.02171
30	5300.01766	5300.01766	5300.01766	5300.01766
20	5300.02229	5300.02171	5300.02171	5300.02171
10	5300.0301	5300.02981	5300.02981	5300.02981
0	5300.04226	5300.04168	5300.04139	5300.04139
-10	5300.05384	5300.05326	5300.05326	5300.05326
-20	5300.06165	5300.06107	5300.06107	5300.06107
Limit(ppm)	20			
Max. Deviation (ppm)	11.632	11.523	11.523	11.523

**Band 3**

Freq(MHz)	5580			
Voltage (V)	Measurement Frequency (MHz)			Deviation(ppm)
3.3	5580.02258			4.047
3	5580.01939			3.475
2.7	5580.02258			4.047
Min Temp°C	0	2	5	10
50	5580.04052	5580.04342	5580.04342	5580.04342
40	5580.02663	5580.02721	5580.02663	5580.02692
30	5580.01968	5580.01968	5580.01968	5580.01968
20	5580.01939	5580.01968	5580.01939	5580.01939
10	5580.03126	5580.02952	5580.02952	5580.02952
0	5580.03994	5580.03994	5580.03994	5580.03994
-10	5580.05586	5580.05499	5580.05499	5580.05499
-20	5580.06107	5580.06107	5580.06107	5580.06136
Limit(ppm)	20			
Max. Deviation (ppm)	11.744	11.744	11.744	11.800

**Band 4**

Freq(MHz)	5785			
Voltage (V)	Measurement Frequency (MHz)			Deviation(ppm)
3.3	5785.02026			3.502
3	5785.02344			4.052
2.7	5785.02026			3.502
Min Temp°C	0	2	5	10
50	5785.04602	5785.04978	5785.04949	5785.05007
40	5785.02836	5785.02721	5785.02952	5785.02836
30	5785.02026	5785.02055	5785.02055	5785.02055
20	5785.02344	5785.02229	5785.02229	5785.02229
10	5785.02981	5785.02981	5785.02981	5785.02981
0	5785.04573	5785.04342	5785.04342	5785.04342
-10	5785.05644	5785.05615	5785.05615	5785.05615
-20	5785.06715	5785.0657	5785.0657	5785.0657
Limit(ppm)	20			
Max. Deviation (ppm)	12.670	12.396	12.396	12.396

## 5.1.8 Spurious Emission

**RESULT:****Passed**

Test standard : FCC 15.205, FCC 15.209, FCC15.407  
Basic standard : ANSI C63.10: 2013  
Limits : Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a) and RSS-Gen i5, 8.10 (Table 7), must comply with the radiated emission limits specified in FCC 15.209(a).

Emission radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in FCC15.407.

Kind of test site : 3m Semi-Anechoic Chamber

**Test setup**

Test Channel : Refer to Table 7  
Operation mode : A  
Test Mode : MIMO

Ambient temperature : 20-24 °C  
Relative humidity : 50-65 %  
Atmospheric pressure : 100-103 kPa

Factor (dB/m)=Antenna Factor(dB/m)+Cable loss (dB)  
Level(dBuV/m)=Reading(dBuV)+ Factor(dB/m)

Testing was carried out within frequency range 9kHz to the tenth harmonic. For details refer to Appendix D.

The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.

All tests are based on current power, which is a worse mode under MIMO conditions.

## 5.1.9 Dynamic Frequency Selection

**RESULT:**
**Passed**

Test standard : FCC Part 15.407(h)(2)  
 Basic standard : ANSI C63.10:2013, KDB905462 D02,  
 KDB905462 D03  
 Kind of test site : Shielded room

**Test setup**

Test Channel : 20M, 5500MHz  
 40M, 5310MHz  
 80M, 5530MHz  
 Operation Mode : C

**Requirement:**

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required

**Note:** Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

Limit:

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

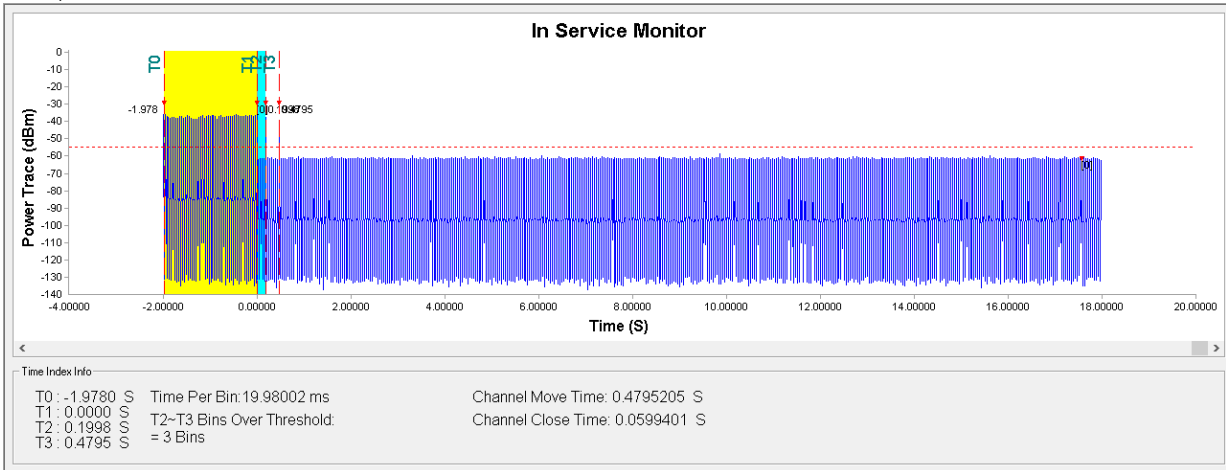
**Note 1:** *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

**Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

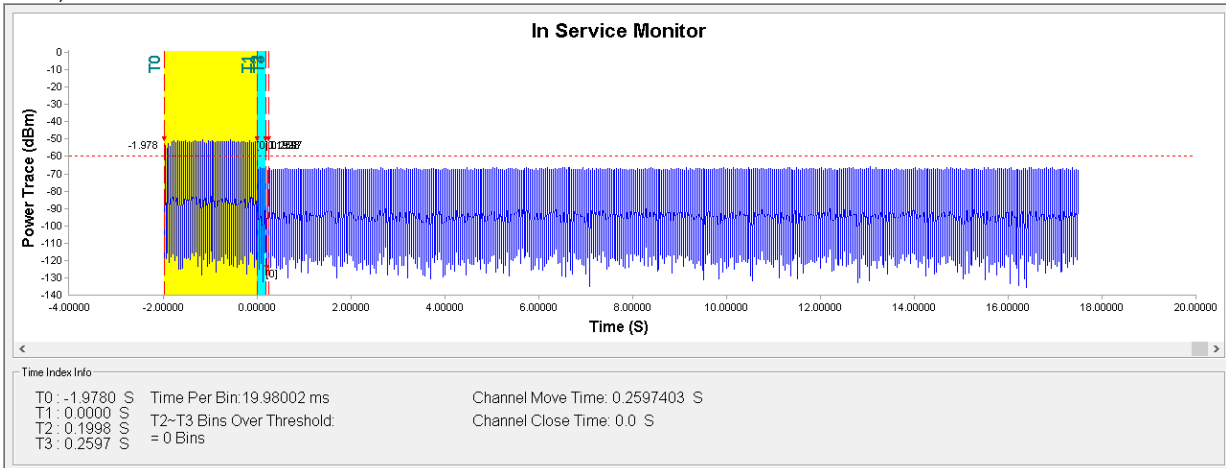
**Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

### Test Plot of Bandwidth DFS Result

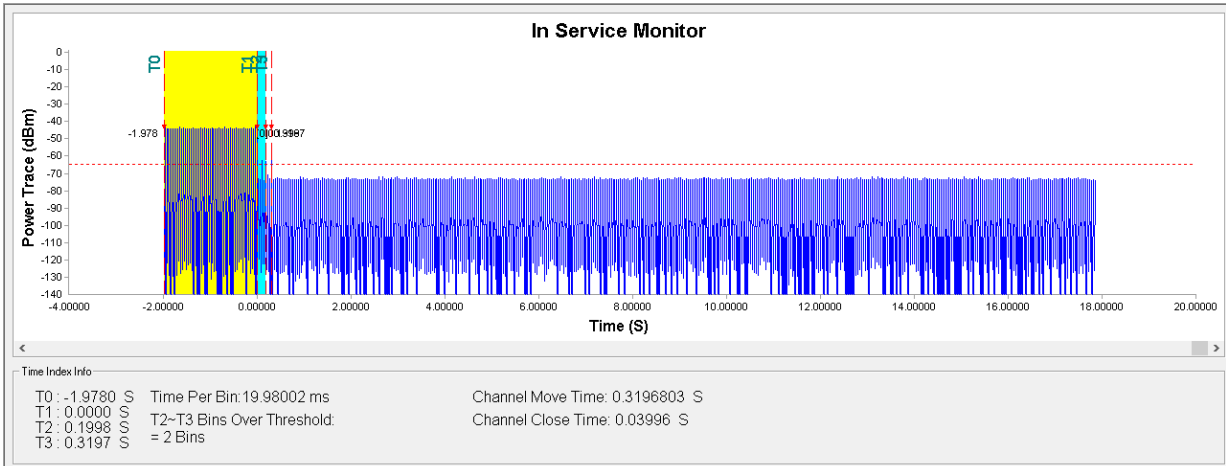
Channel Move Time with Channel Close Time:  
 20M, 5500MHz



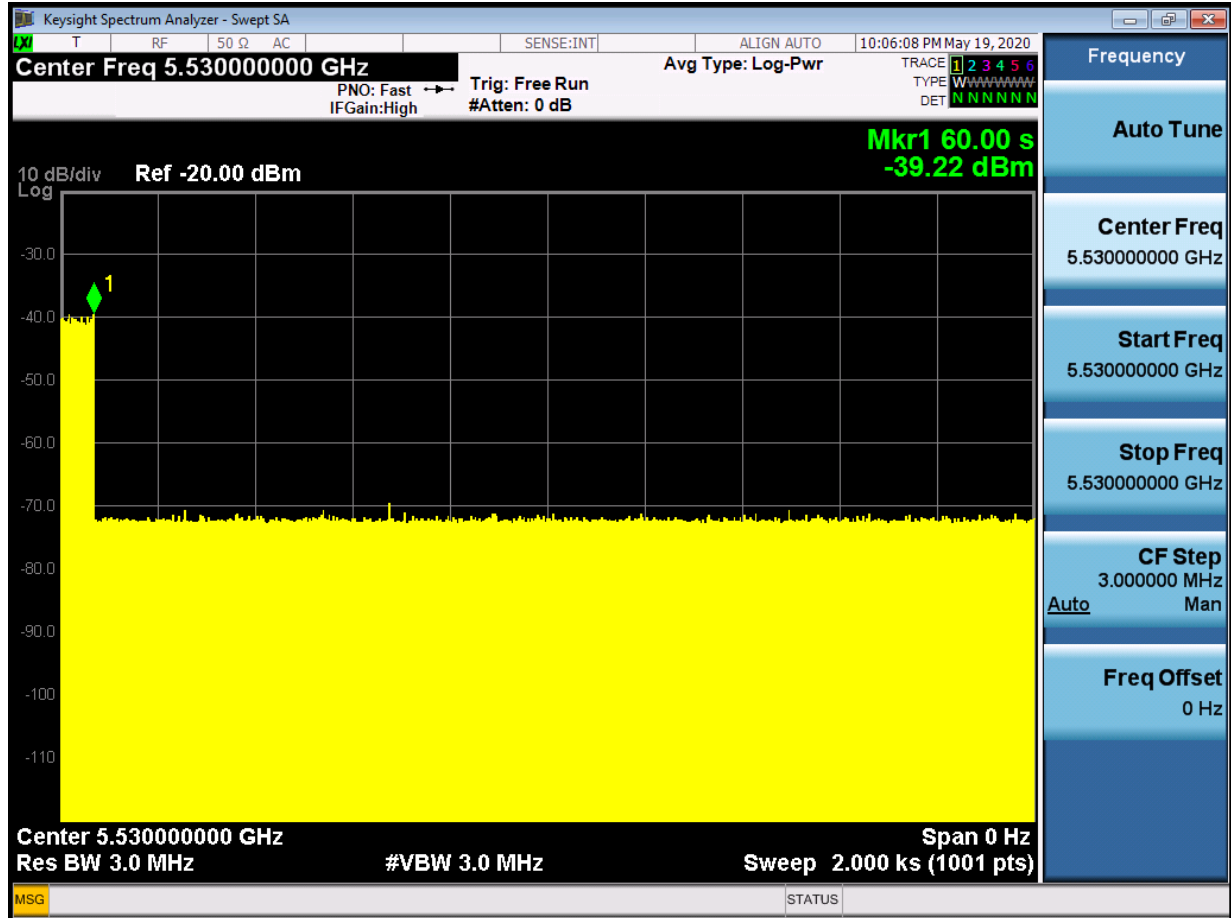
40M, 5510MHz



80M, 5530MHz



Non-occupancy period:





## 5.2 Mains Emissions

### 5.2.1 Mains Conducted Emissions

**RESULT:****Passed**

Test standard : FCC Part 15.207, FCC Part 15.107  
Limits : Mains Conducted emissions as defined in  
above test standards must comply with the  
mains conducted emission limits specified  
Kind of test site : Shielded Room

**Test setup**

Test channel : 802.11an20, 5180MHz  
Operation mode : A

Ambient temperature : 20-24°C  
Relative humidity : 50-65%  
Atmospheric pressure : 100-103 kPa

Remark: For details refer to Appendix D.

## 6. Radio Frequency Exposure Compliance

### 6.1.1 Electromagnetic Fields

**RESULT:****Passed**

Test standard : FCC CFR 47 Part 2 Subpart J Section 2.1091

Separation distance is more than 20 cm, thus mobile device exposure limits can be applied.

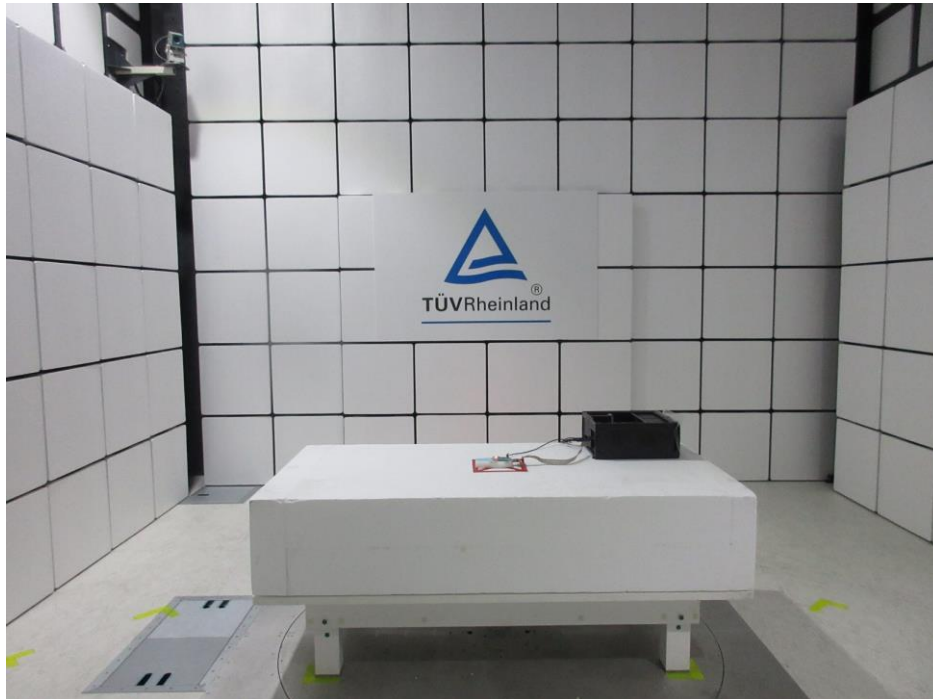
**FCC Maximum Exposure:**

Mode	Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Maximum Output Power (dBm)	Output Power (mW)	Power Density (S)(mW/cm <sup>2</sup> )	Test Result
802.11an40	5755	3.85	2.4266	19.7040	93.4121	0.045118	Pass

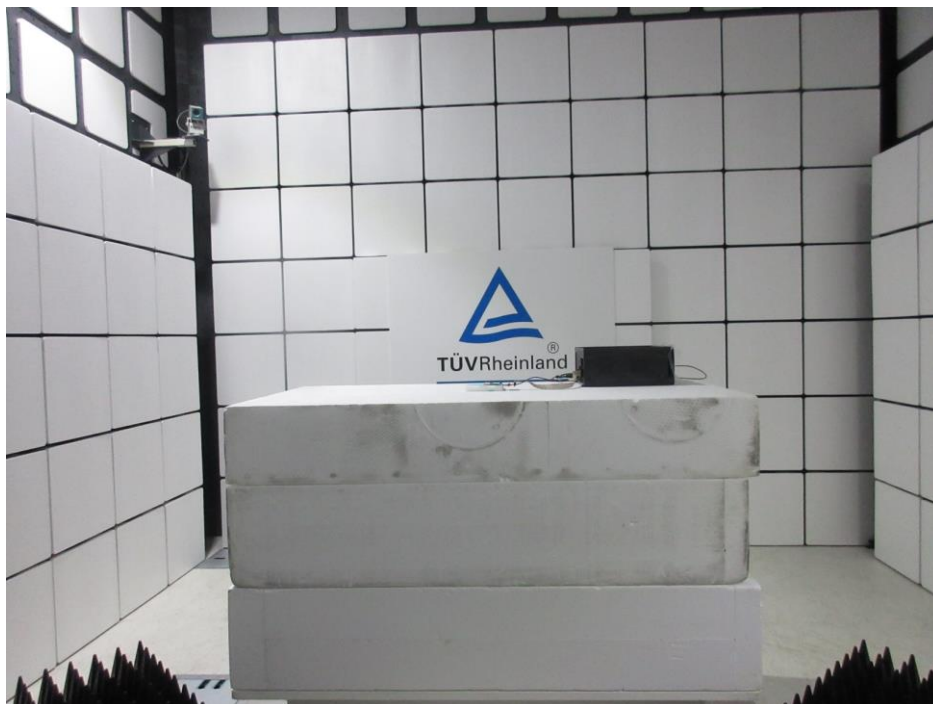
**Limit FCC: 1500-100,000 MHz 1.0 mW/cm<sup>2</sup>**

## 7. Photographs of the Test Set-Up

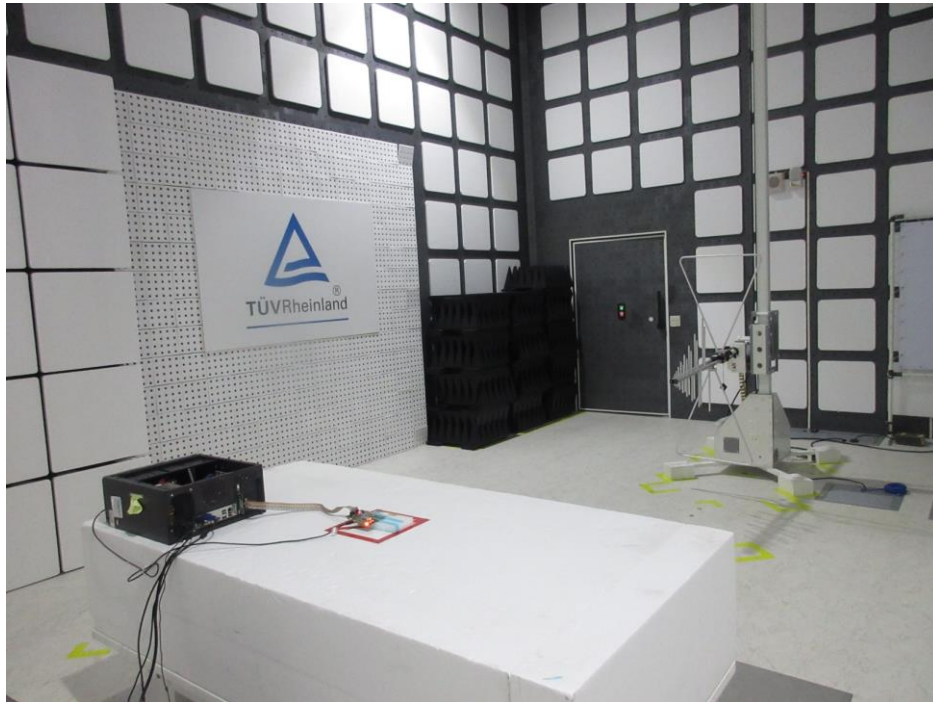
Photograph 1: Set-up for Spurious Emissions (Front View 1)



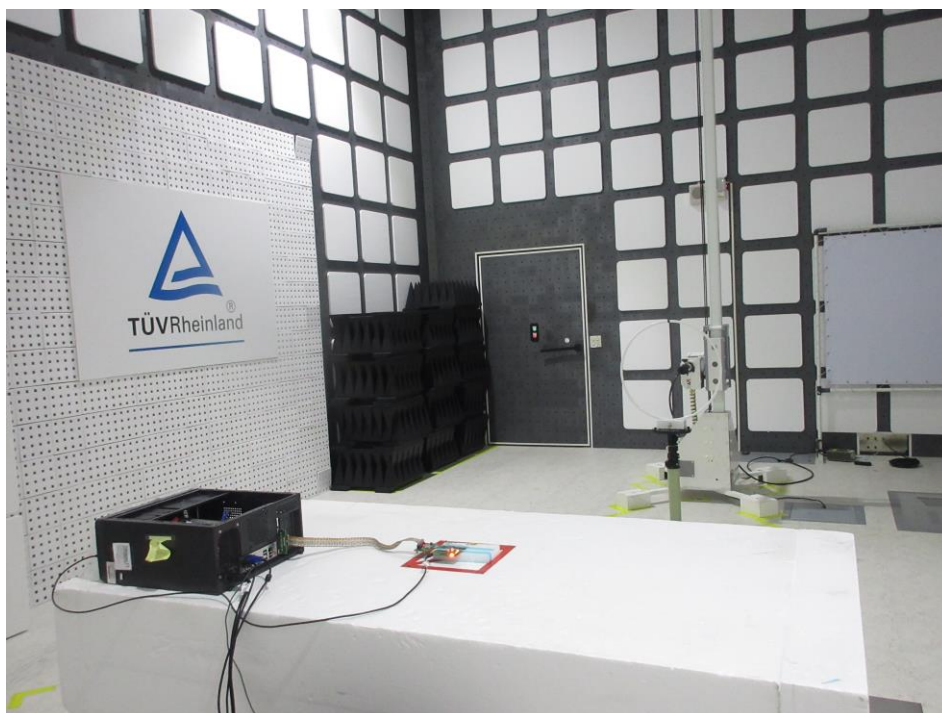
Photograph 2: Set-up for Spurious Emissions (Front View 2)



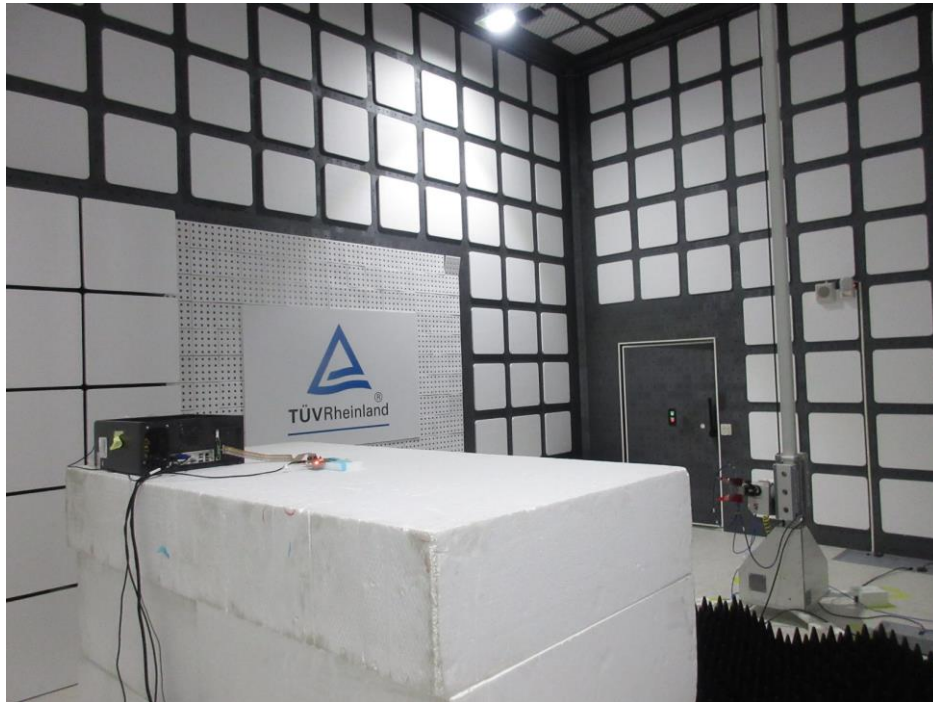
**Photograph 3: Set-up for Spurious Emissions (Back View 1)**



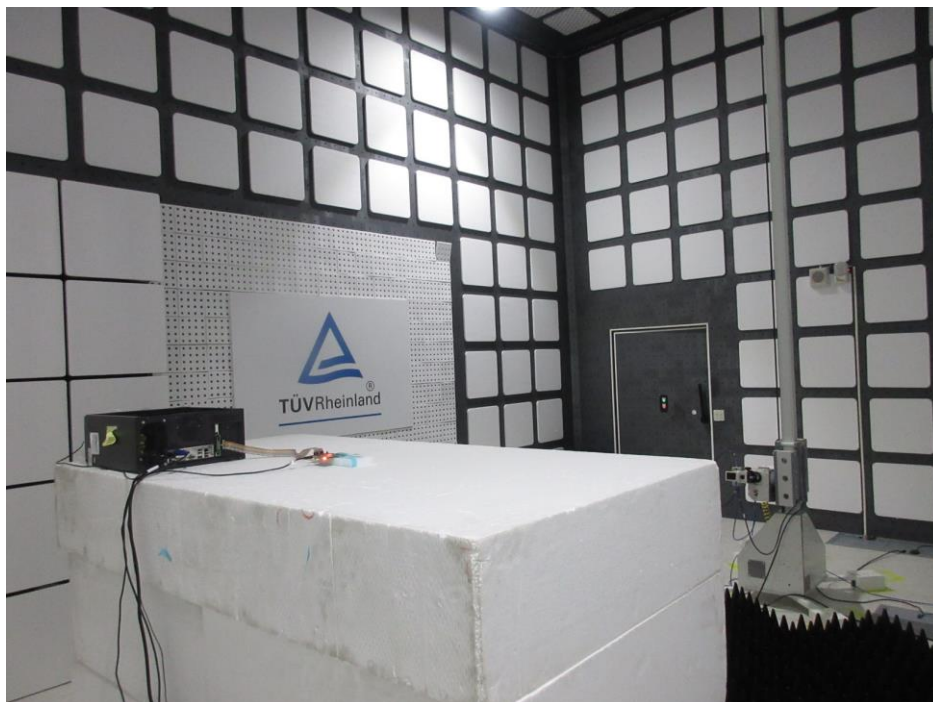
**Photograph 4: Set-up for Spurious Emissions (Back View 2)**



**Photograph 5: Set-up for Spurious Emissions (Back View 3)**



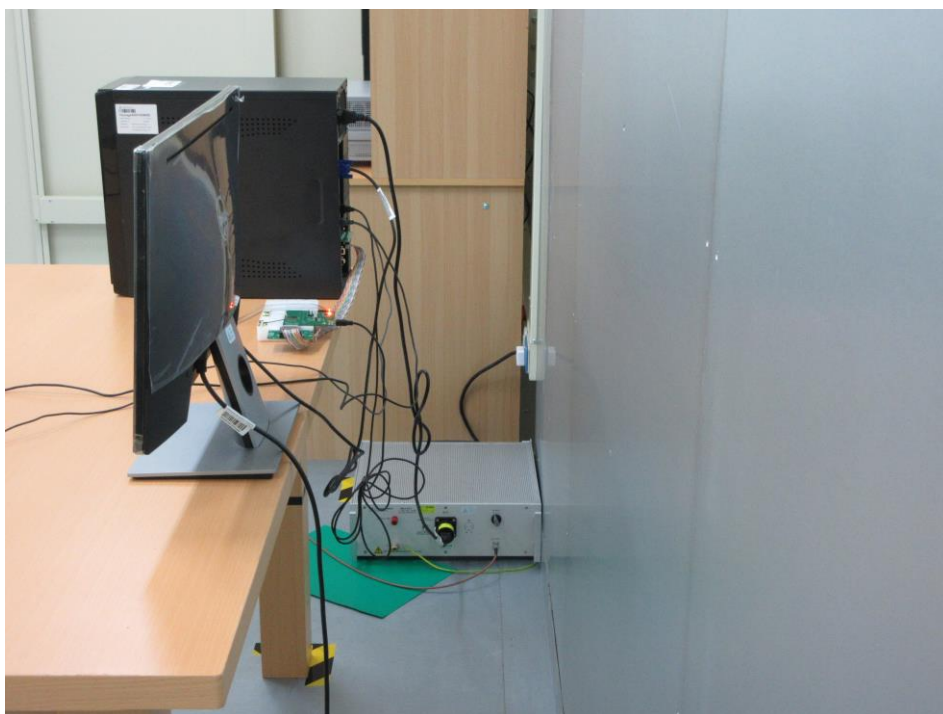
**Photograph 6: Set-up for Spurious Emissions (Back View 4)**



**Photograph 7: Set-up for AC Mains (Front View)**



**Photograph 8: Set-up for AC Mains (Back View)**



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