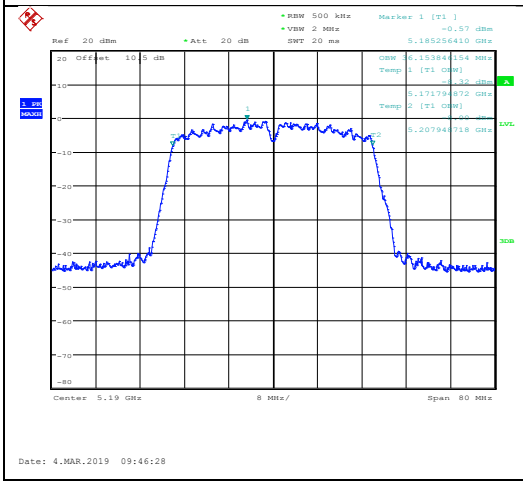
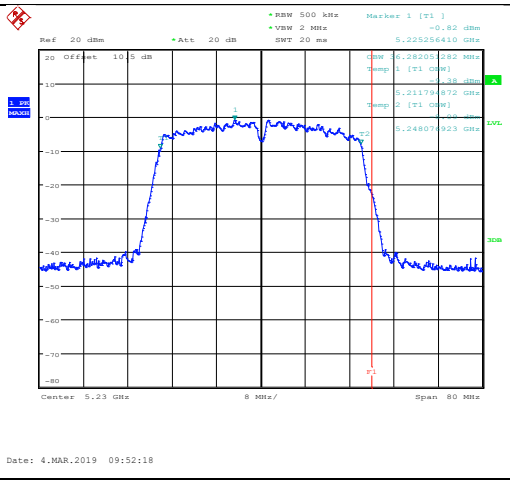
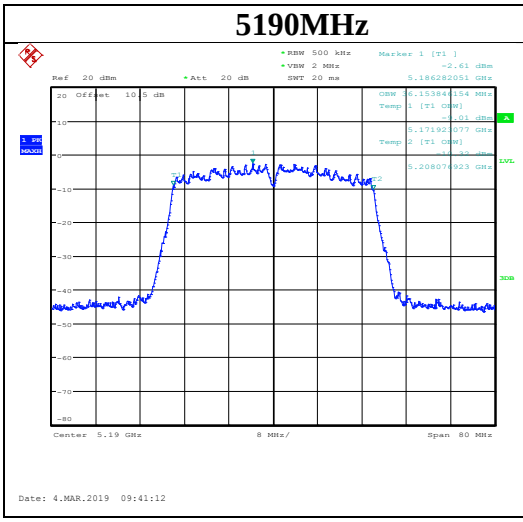
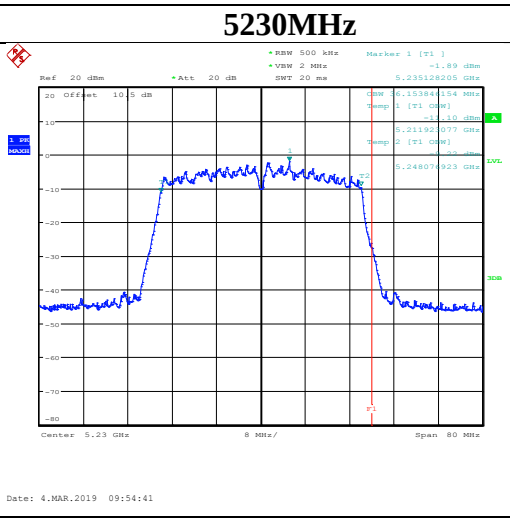
IEEE 802.11ac VHT40 Mode / 5150 ~ 5250MHz

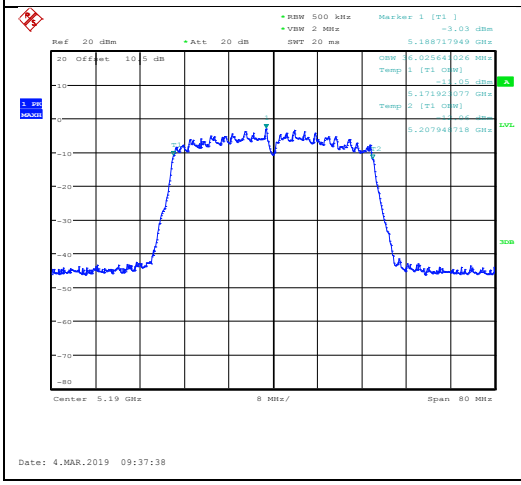
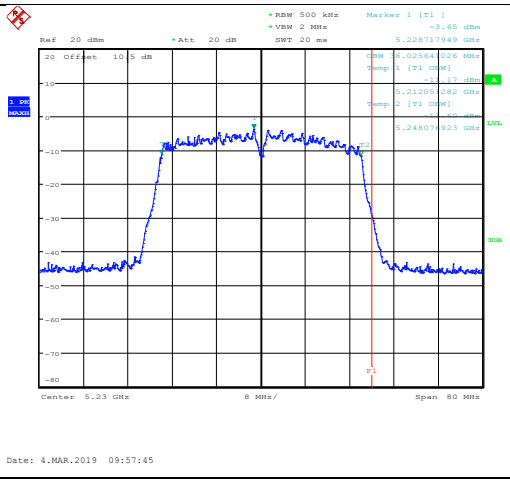
<Chain 0>

5190MHz	5230MHz
	

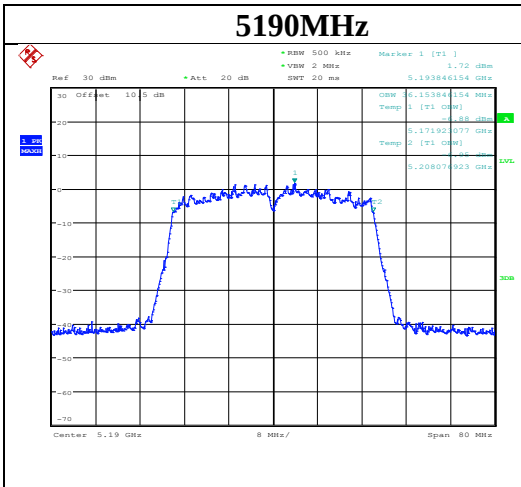
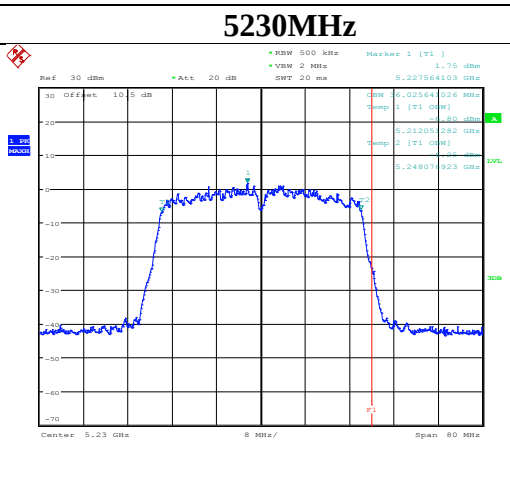
<Chain 1>

5190MHz	5230MHz
	

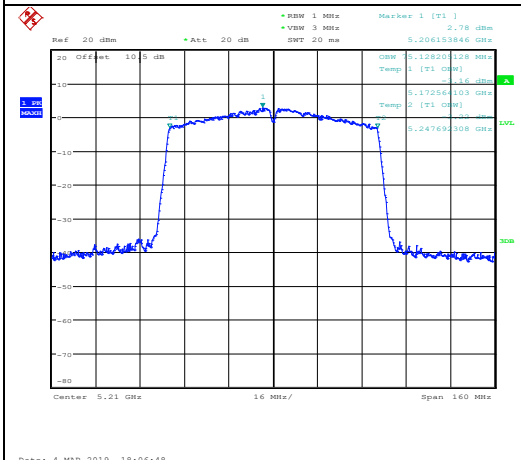
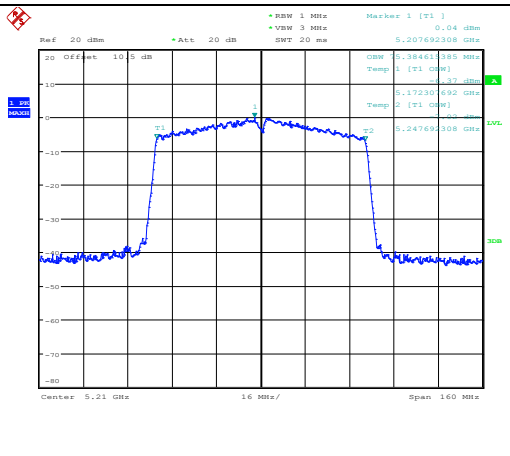
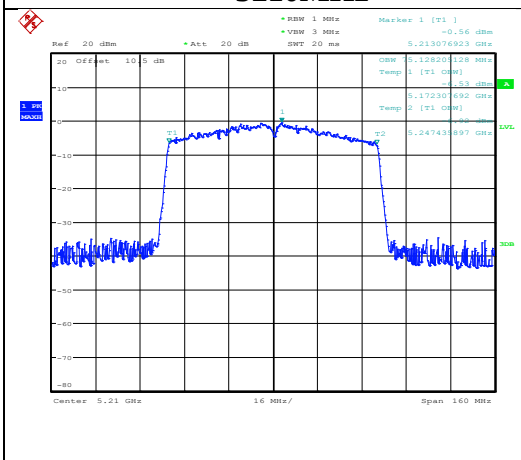
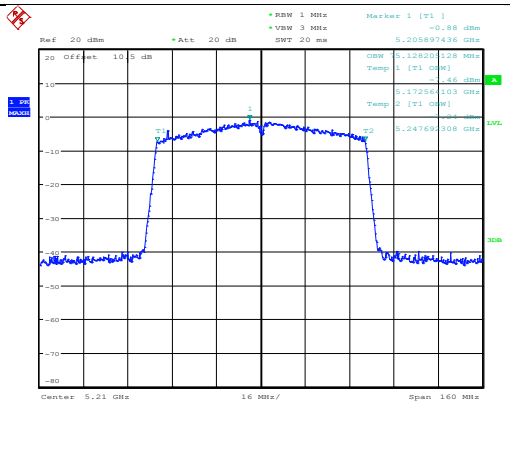
<Chain 2>

5190MHz	5230MHz
	

<Chain 3>

5190MHz	5230MHz
	

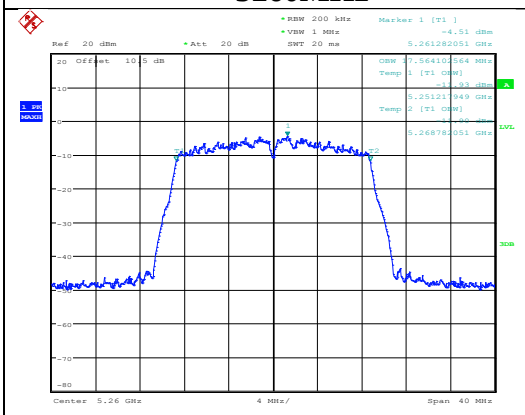
IEEE 802.11ac VHT80 Mode / 5150 ~ 5250MHz

<Chain 0> 5210MHz	<Chain 1> 5210MHz
 Date: 4.MAR.2019 18:06:48	 Date: 4.MAR.2019 18:09:56
<Chain 2> 5210MHz	**<Chain 3> 5210MHz**
 Date: 4.MAR.2019 18:12:11	 Date: 4.MAR.2019 18:14:20

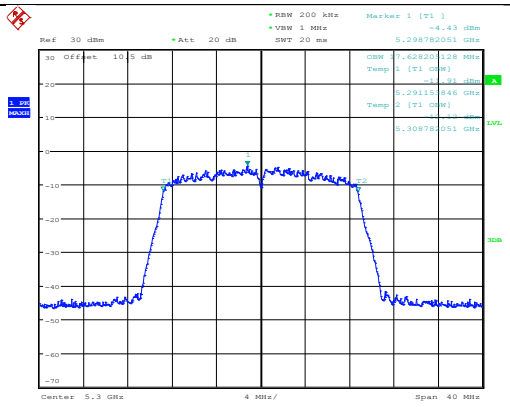
UNII-2A Band II / OBW 99%
IEEE 802.11a Mode / 5250 ~ 5350MHz

<Chain 0>

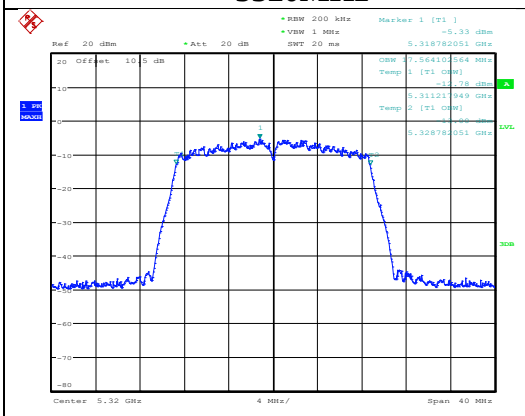
5260MHz



5300MHz

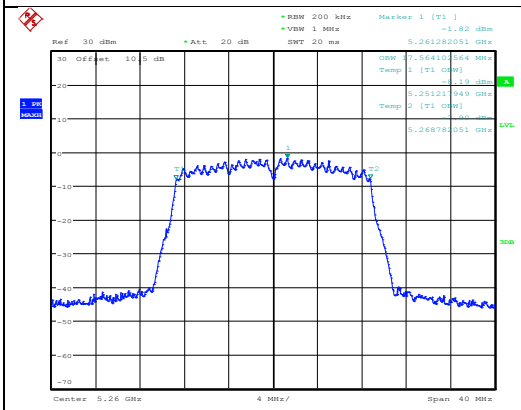


5320MHz



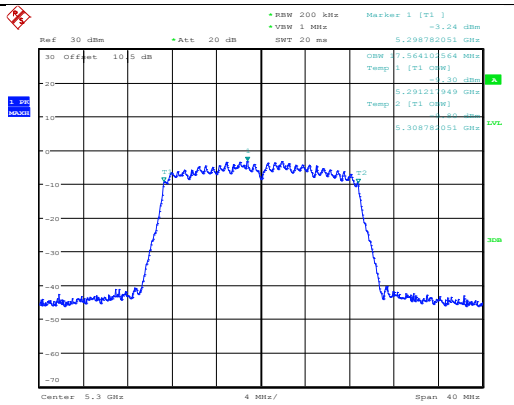
<Chain 1>

5260MHz



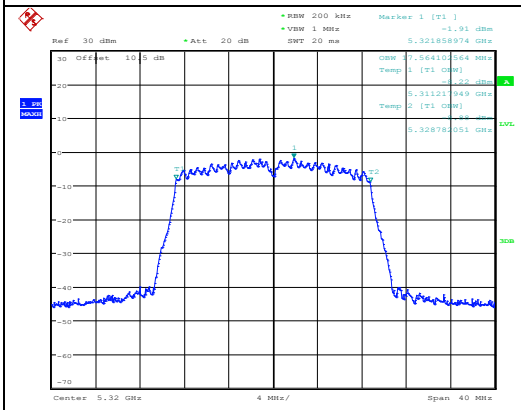
Date: 27.FEB.2019 10:02:53

5300MHz



Date: 27.FEB.2019 10:25:06

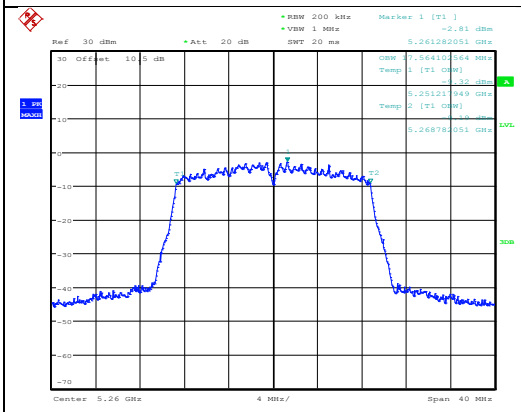
5320MHz



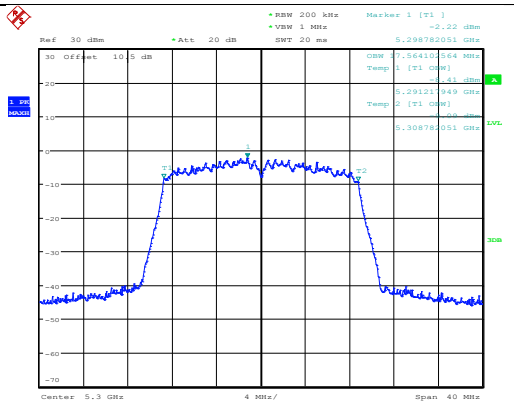
Date: 27.FEB.2019 10:47:37

<Chain 2>

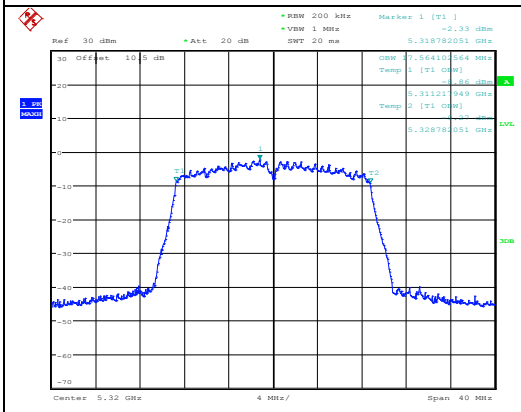
5260MHz



5300MHz

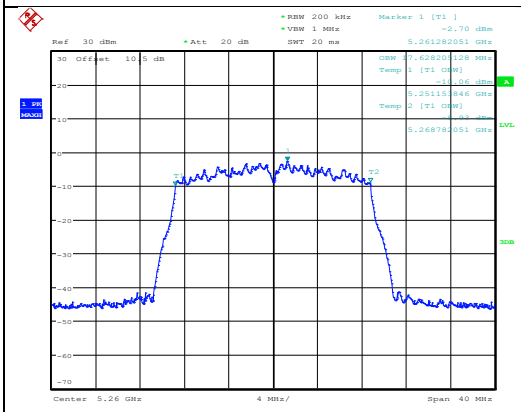


5320MHz

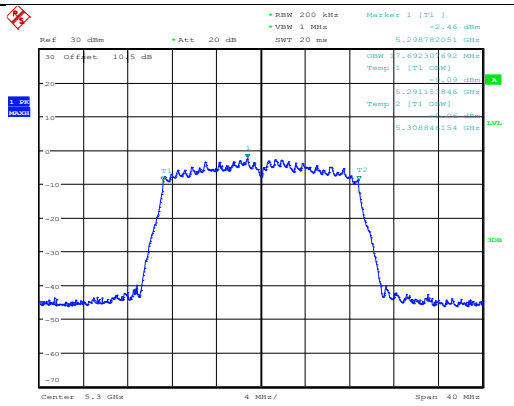


<Chain 3>

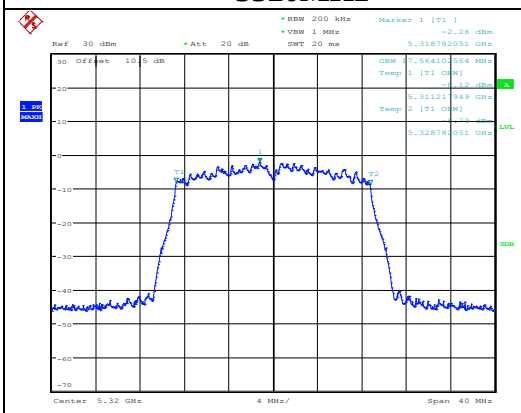
5260MHz



5300MHz



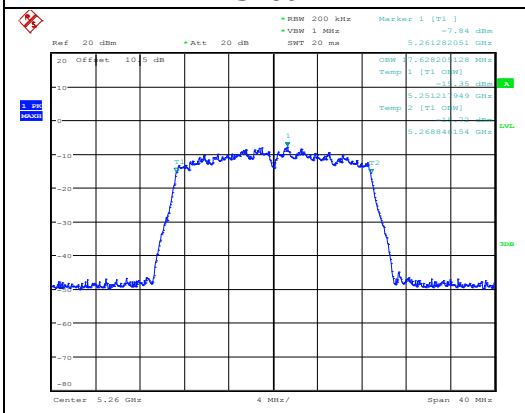
5320MHz



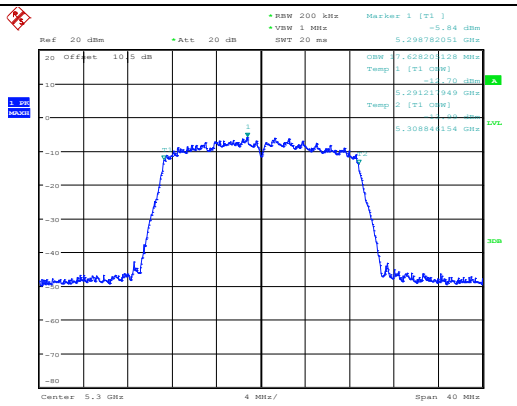
IEEE 802.11ac VHT20 Mode / 5250 ~ 5350MHz

<Chain 0>

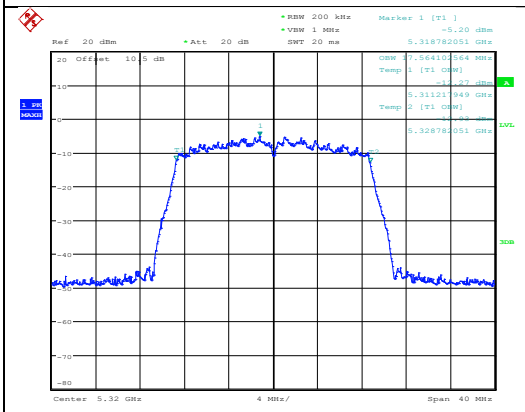
5260MHz



5300MHz

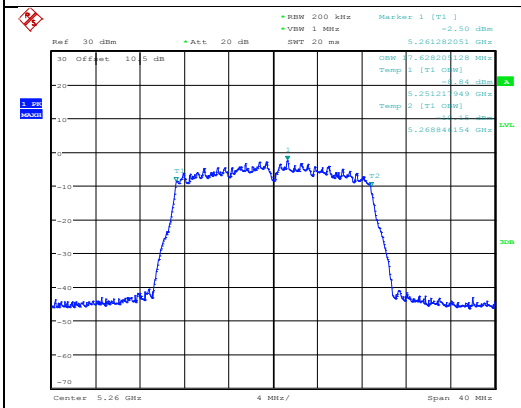


5320MHz

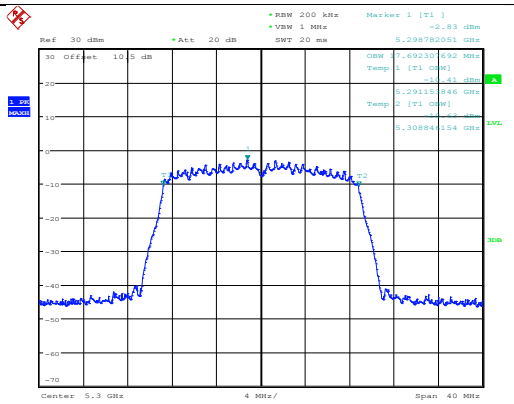


<Chain 1>

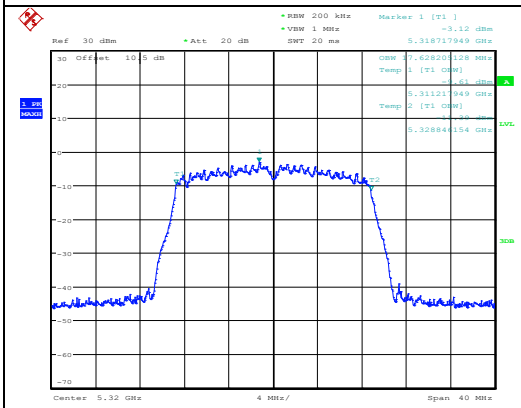
5260MHz



5300MHz

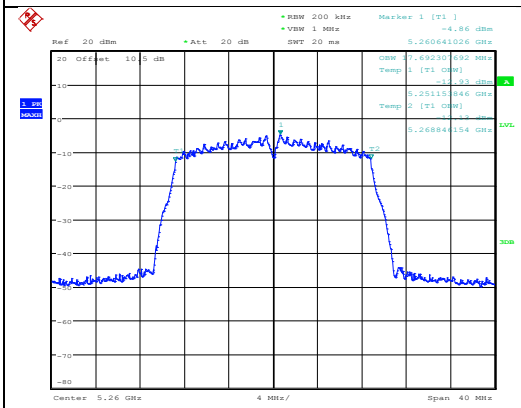


5320MHz



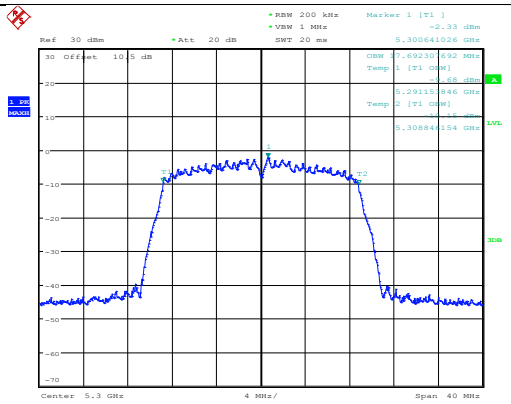
<Chain 2>

5260MHz



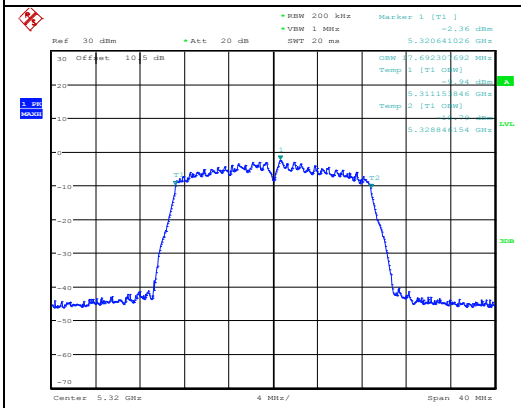
Date: 27.FEB.2019 15:01:23

5300MHz



Date: 27.FEB.2019 15:14:14

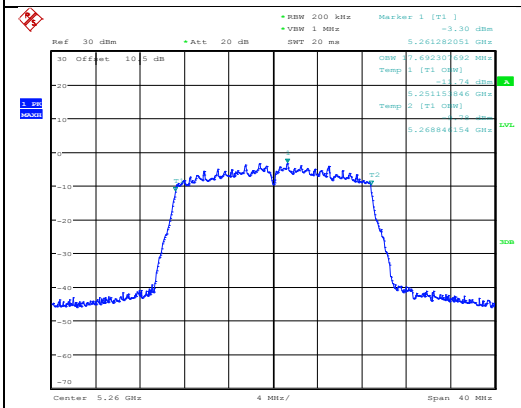
5320MHz



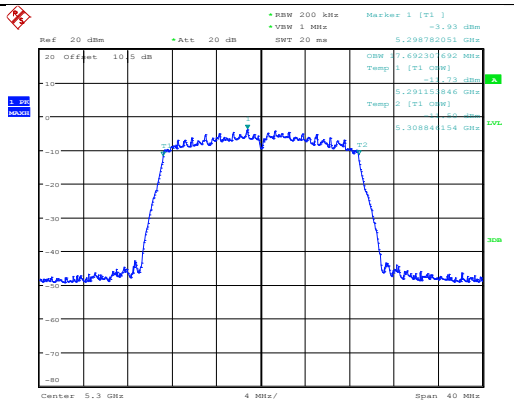
Date: 27.FEB.2019 15:30:49

<Chain 3>

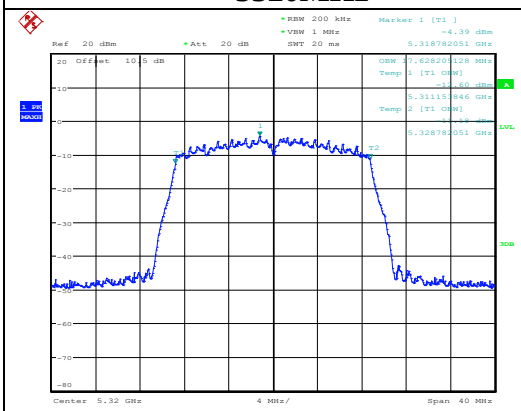
5260MHz



5300MHz

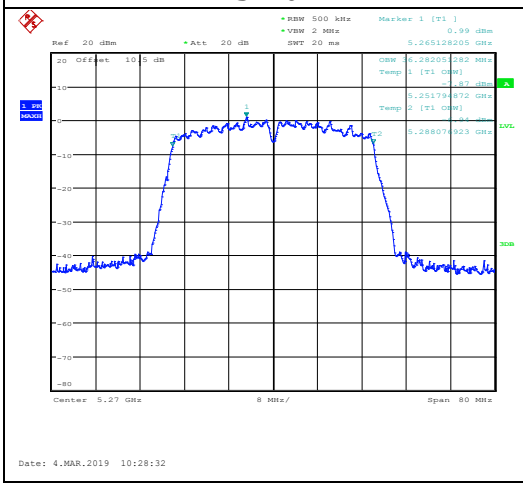
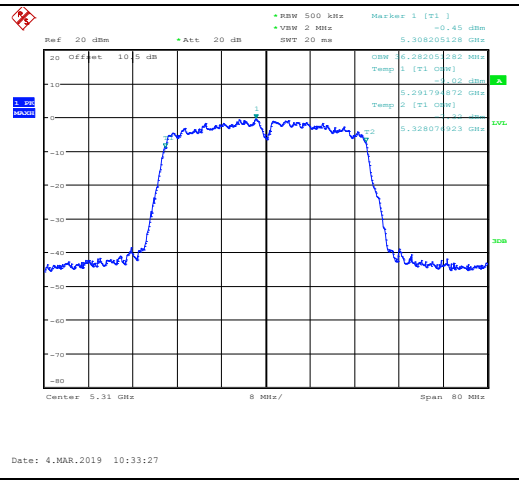


5320MHz

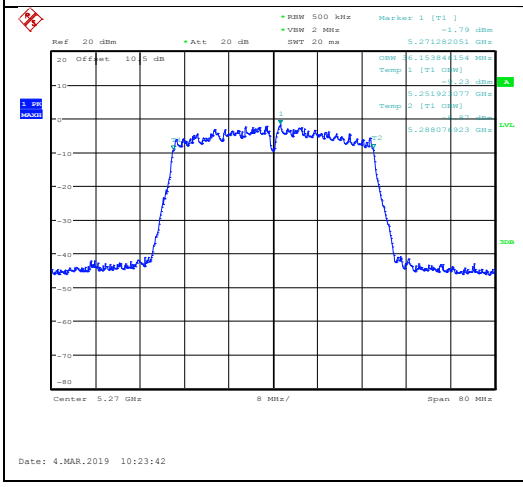
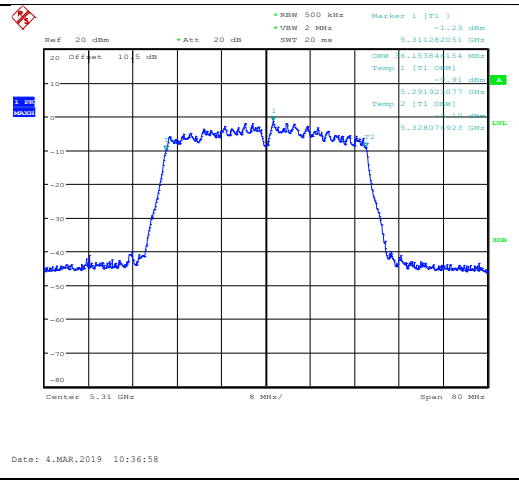


IEEE 802.11ac VHT40 Mode / 5250 ~ 5350MHz

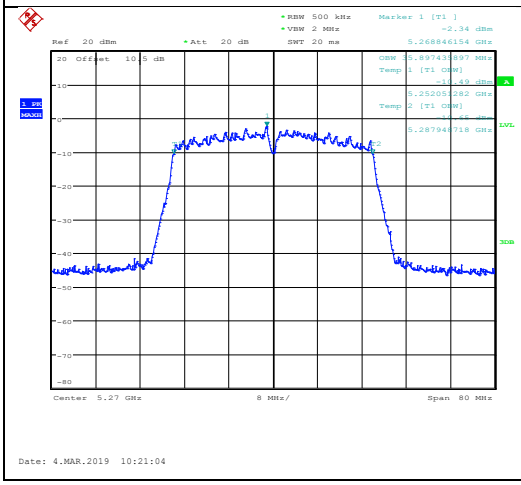
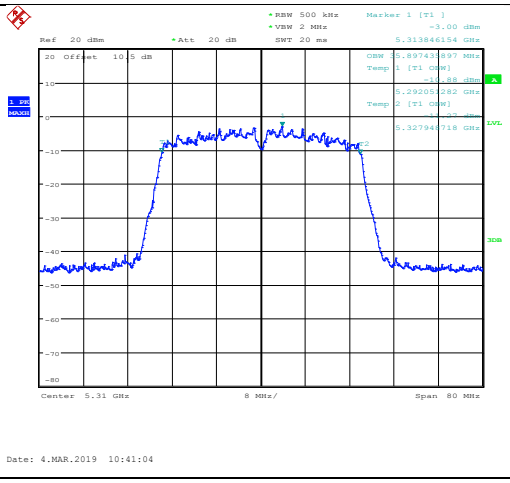
<Chain 0>

5270MHz	5310MHz
	

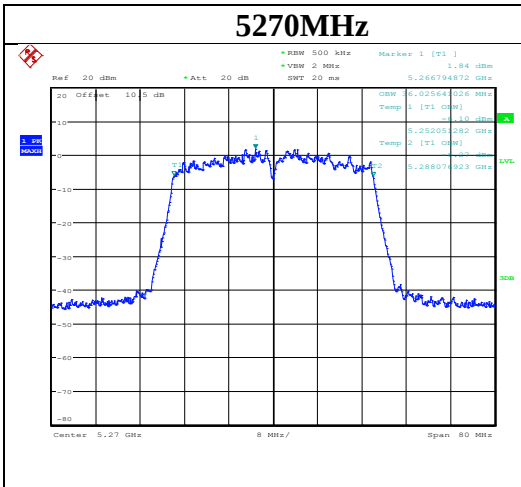
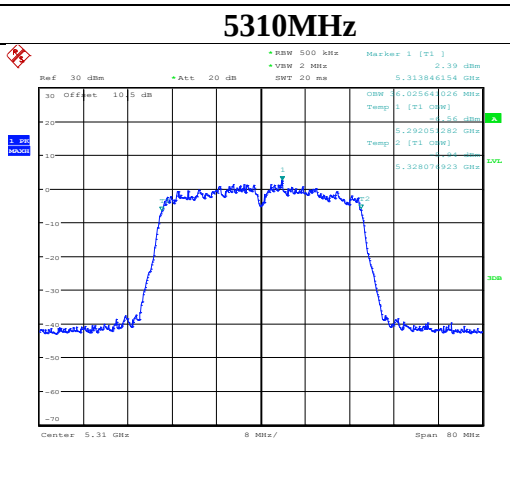
<Chain 1>

5270MHz	5310MHz
	

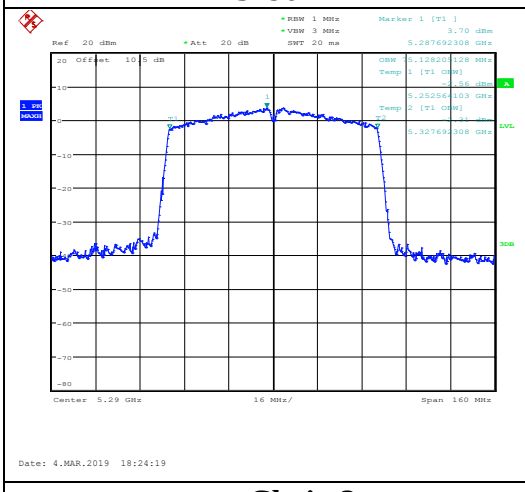
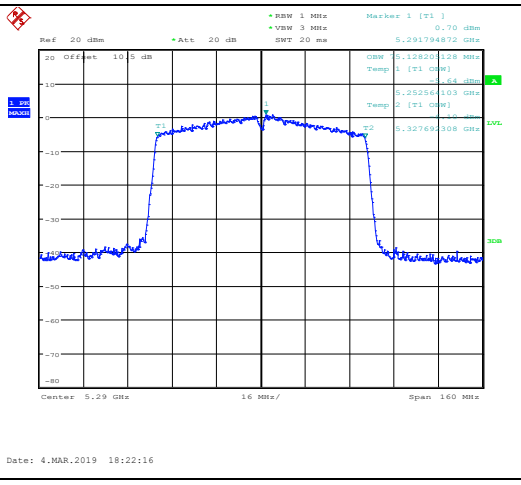
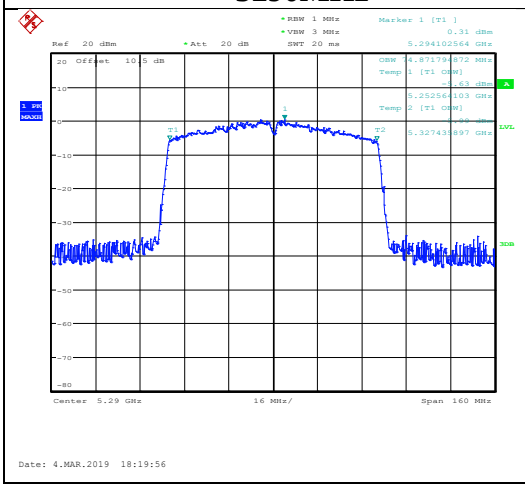
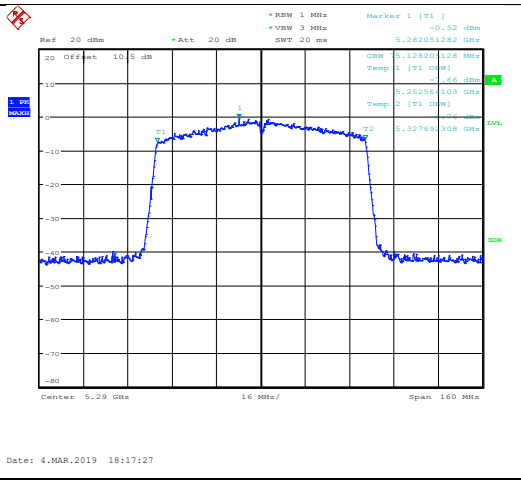
<Chain 2>

5270MHz	5310MHz
	

<Chain 3>

5270MHz	5310MHz
	

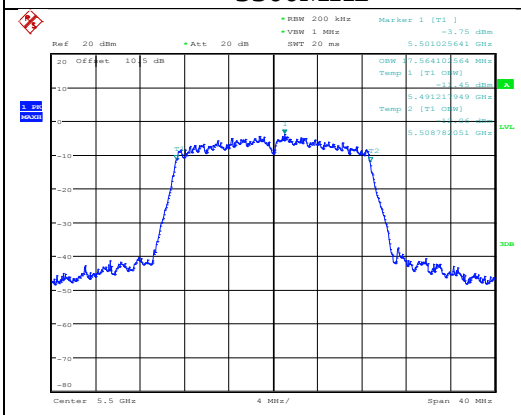
IEEE 802.11ac VHT80 Mode / 5250 ~ 5350MHz

<Chain 0> 5290MHz	<Chain 1> 5290MHz
	
<Chain 2> 5290MHz	**<Chain 3> 5290MHz**
	

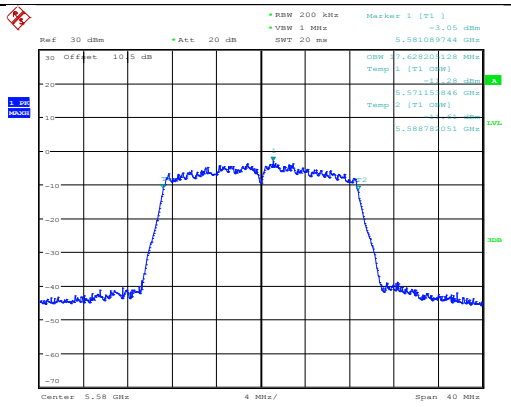
UNII-2C Band III / OBW 99%
IEEE 802.11a Mode / 5470 ~ 5725MHz

<Chain 0>

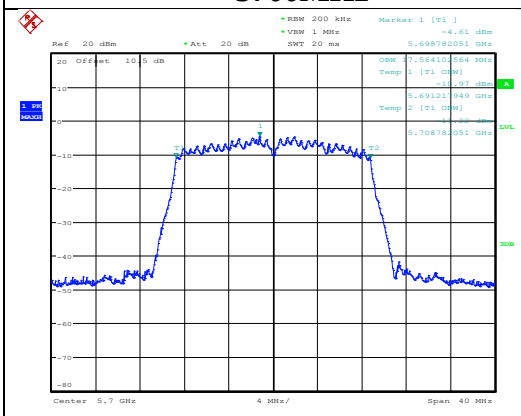
5500MHz



5580MHz

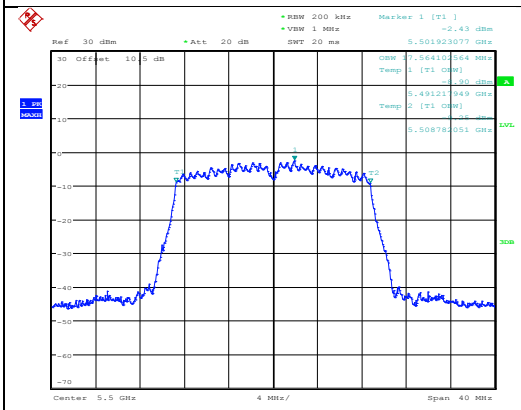


5700MHz

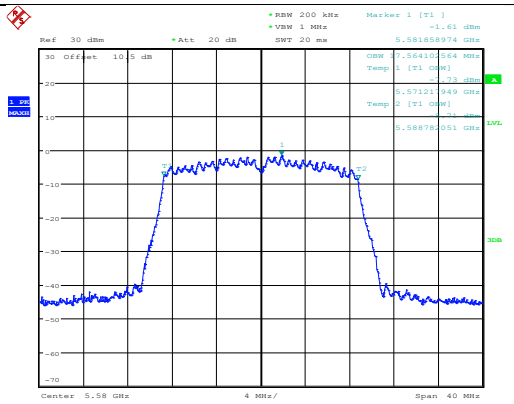


<Chain 1>

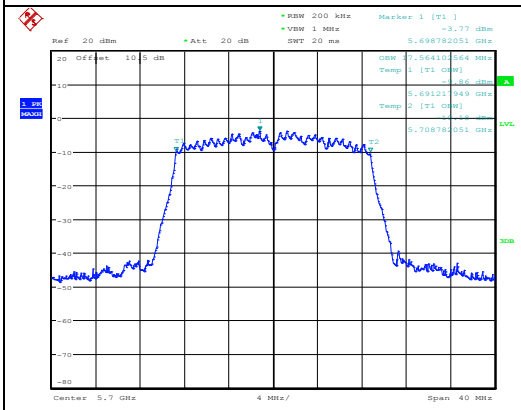
5500MHz



5580MHz

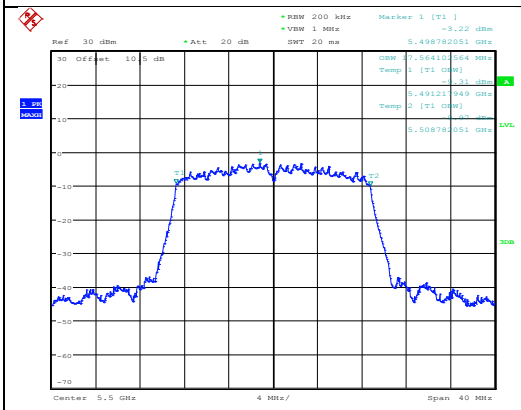


5700MHz

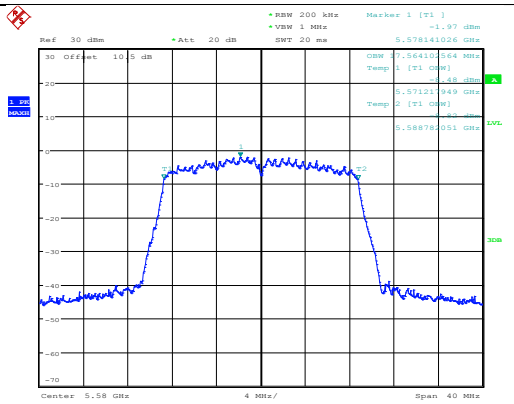


<Chain 2>

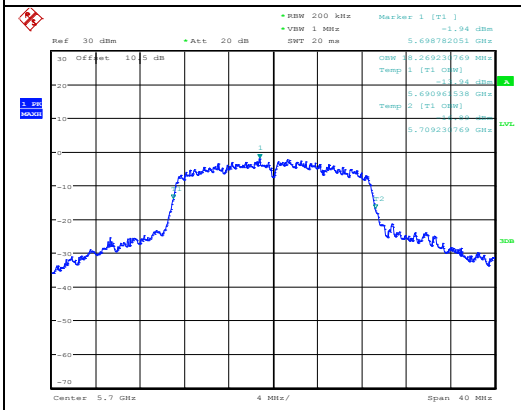
5500MHz



5580MHz

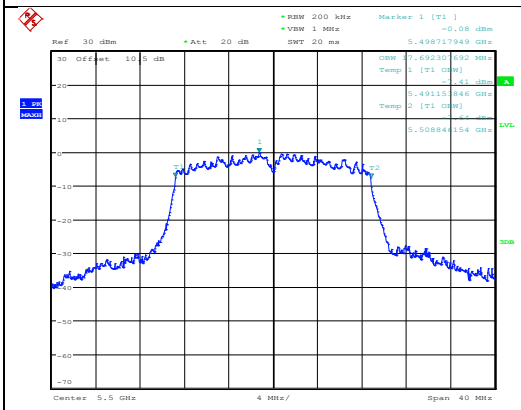


5700MHz

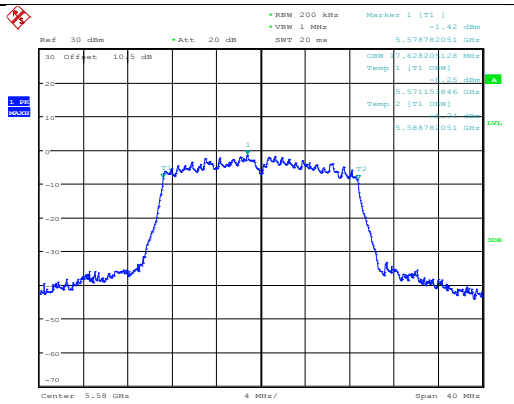


<Chain 3>

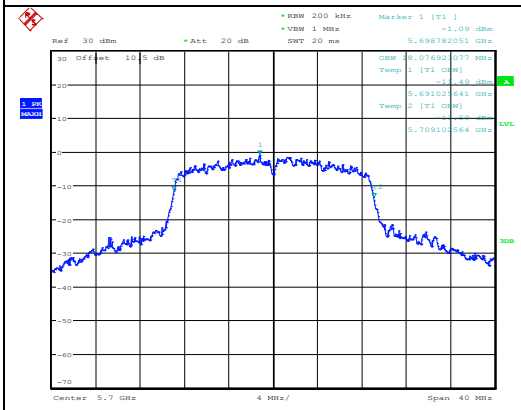
5500MHz



5580MHz



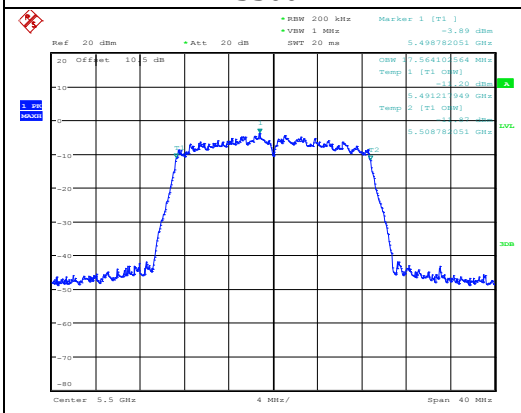
5700MHz



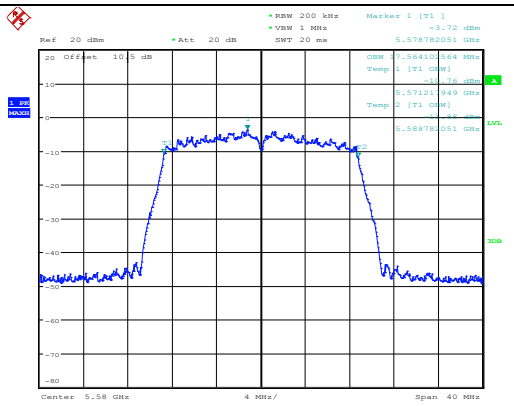
IEEE 802.11ac VHT20 Mode / 5470 ~ 5725MHz

<Chain 0>

5500MHz



5580MHz



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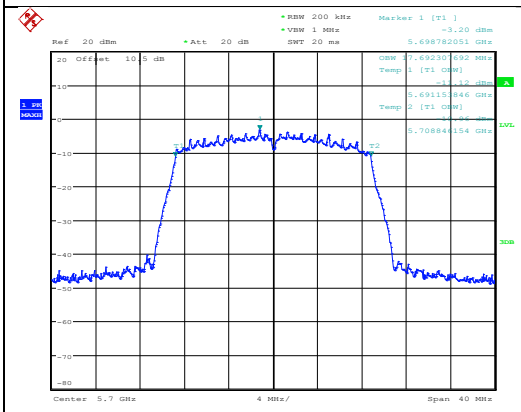

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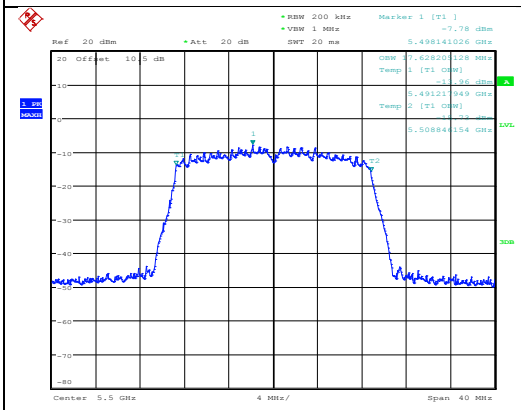
5500MHz



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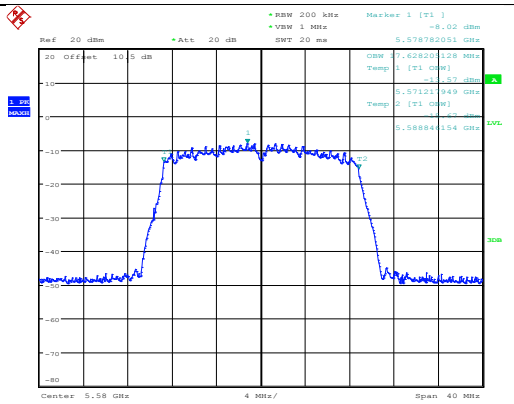

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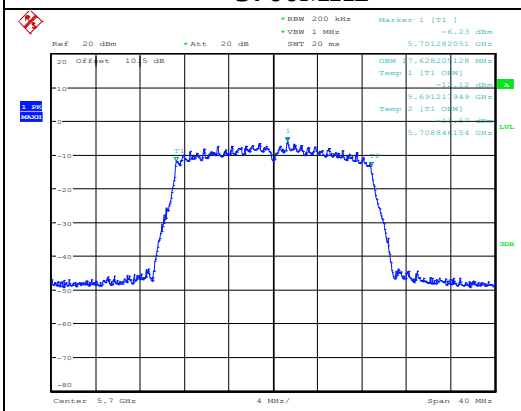
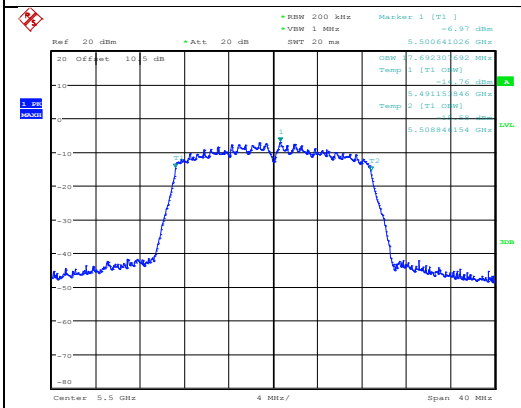


<Chain 2>

5500MHz



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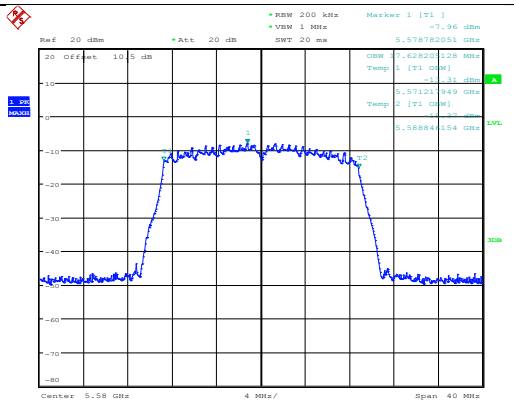

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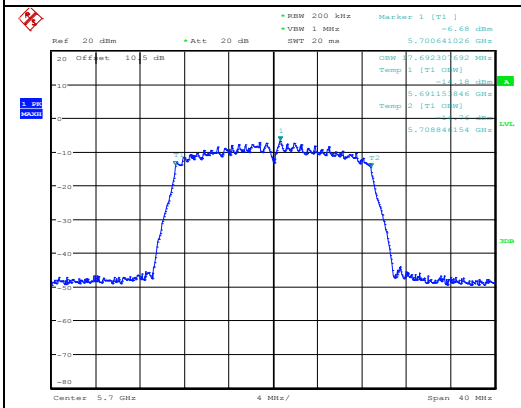
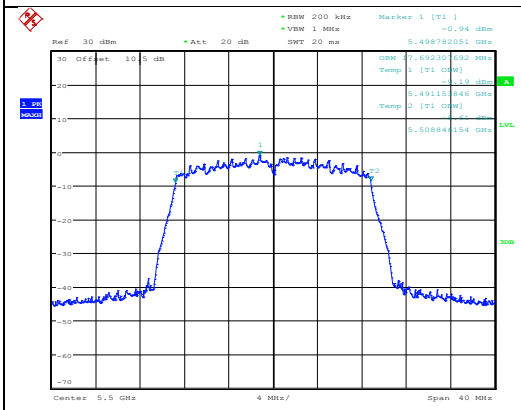
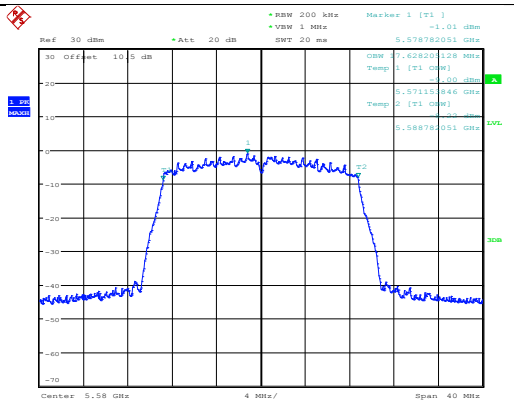


<Chain 3>

5500MHz



5580MHz



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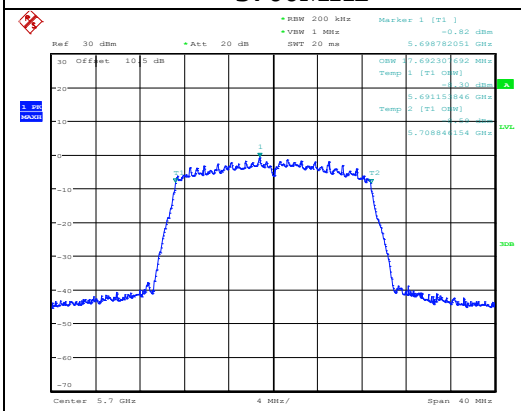
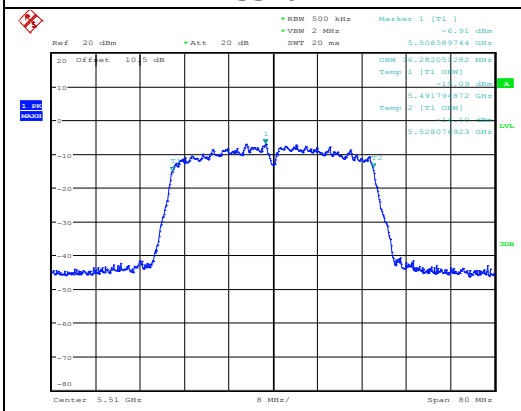


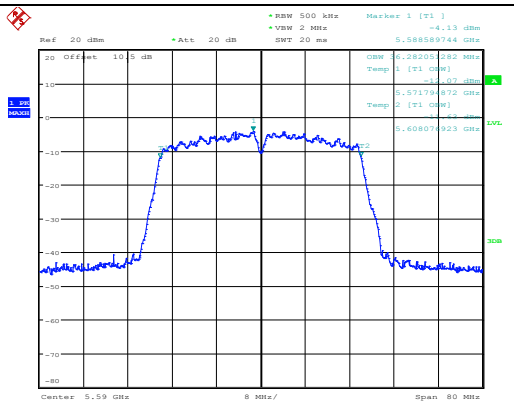
IEEE 802.11ac VHT40 Mode / 5470 ~ 5725MHz

<Chain 0>

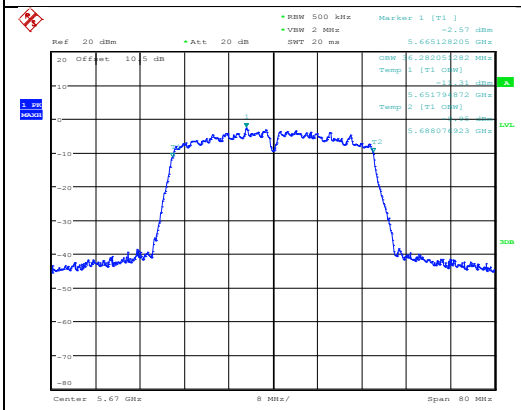
5510MHz



5590MHz

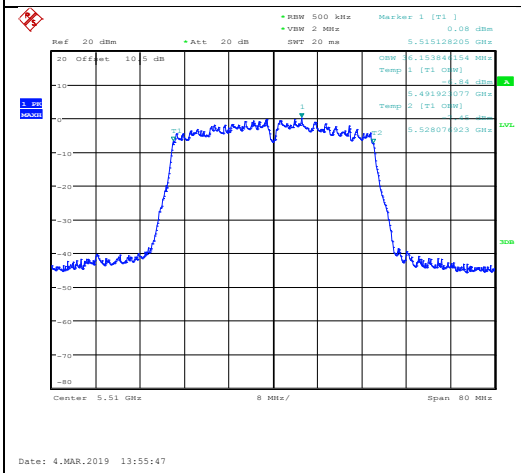


5670MHz

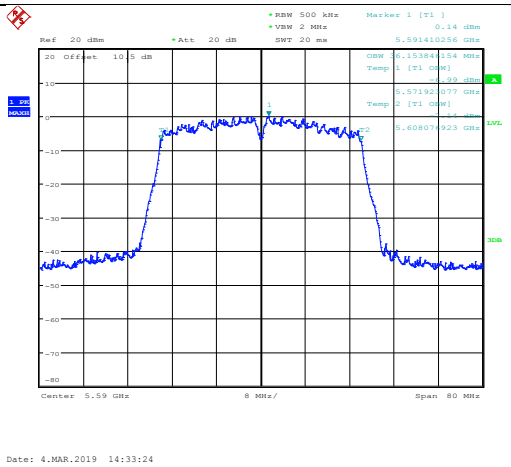


<Chain 1>

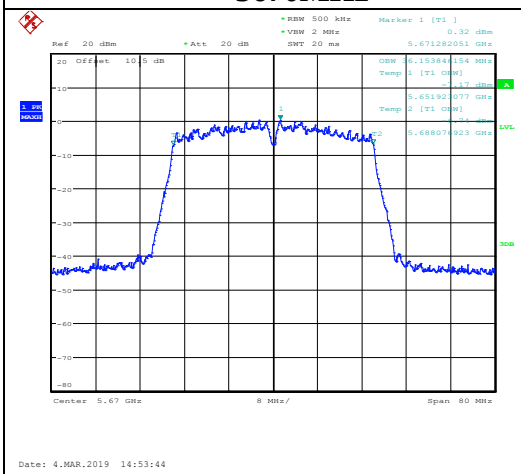
5510MHz



5590MHz



5670MHz



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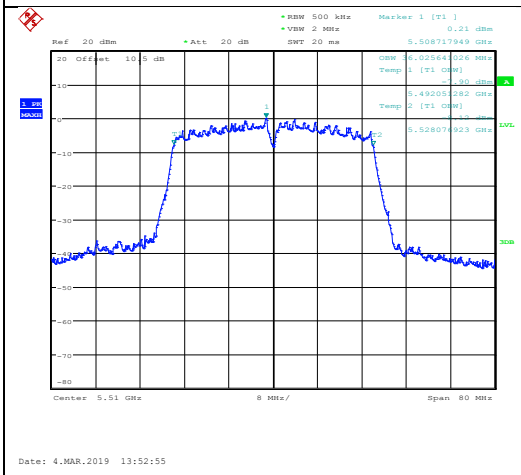
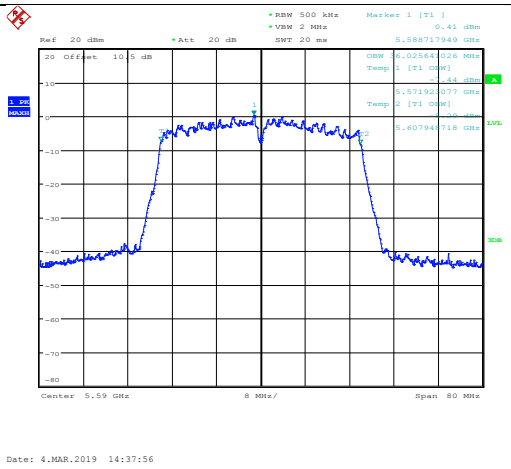
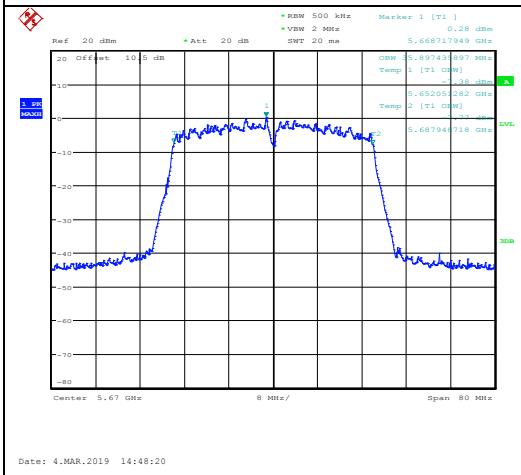
5510MHz



5590MHz

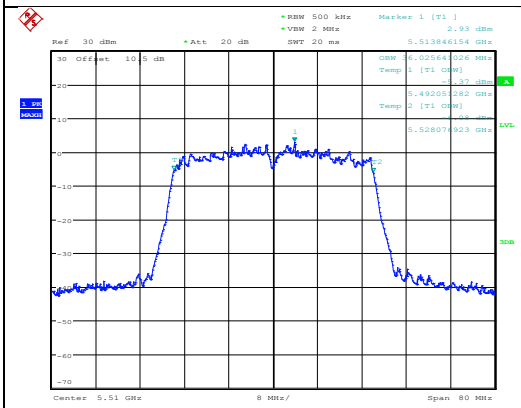


5670MHz

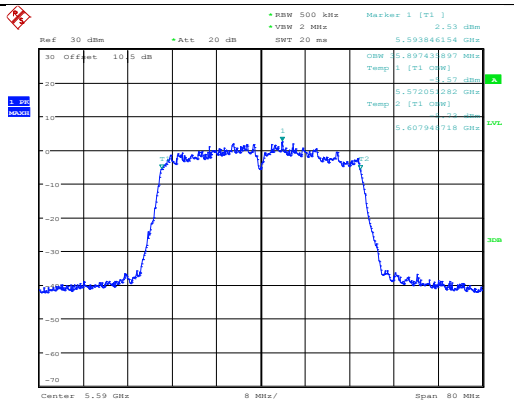


<Chain 3>

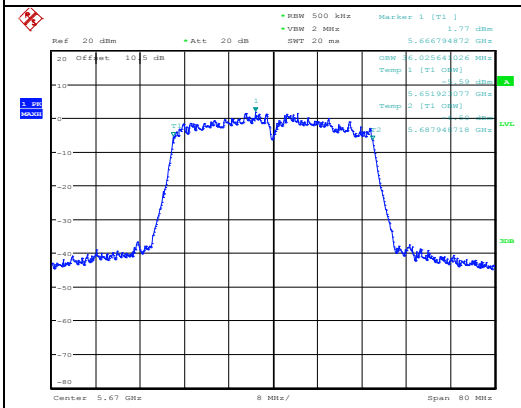
5510MHz



5590MHz

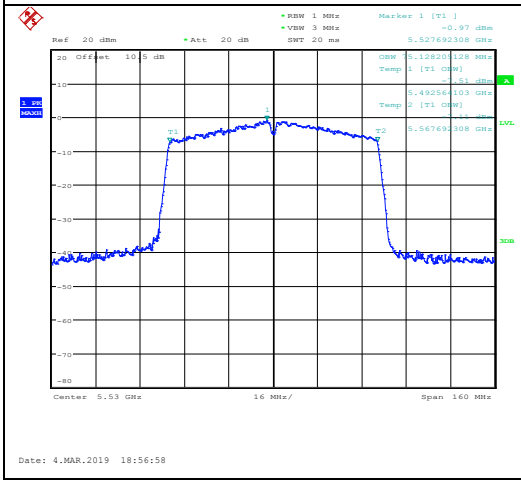
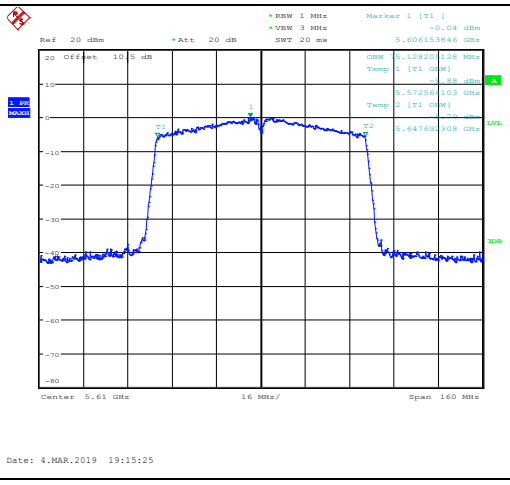


5670MHz

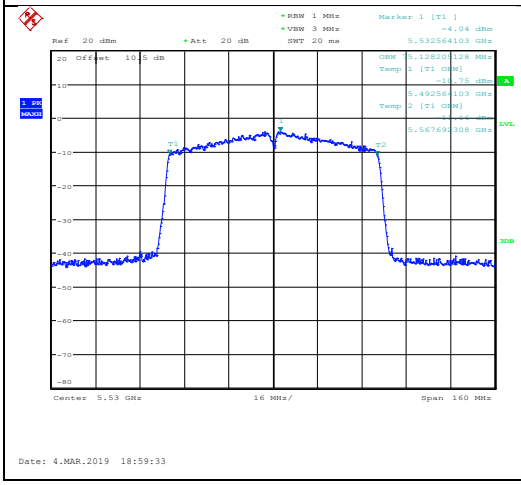
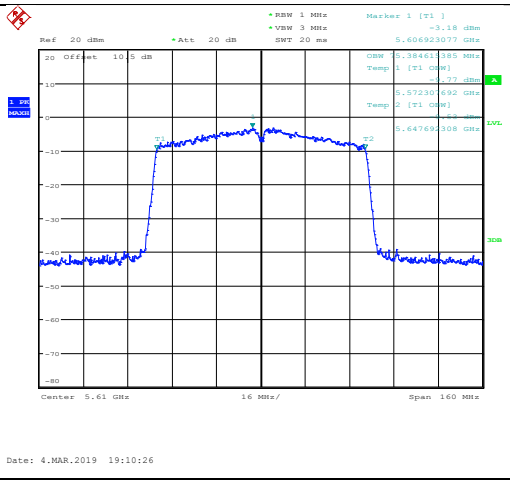


IEEE 802.11ac VHT80 Mode / 5470 ~ 5725MHz

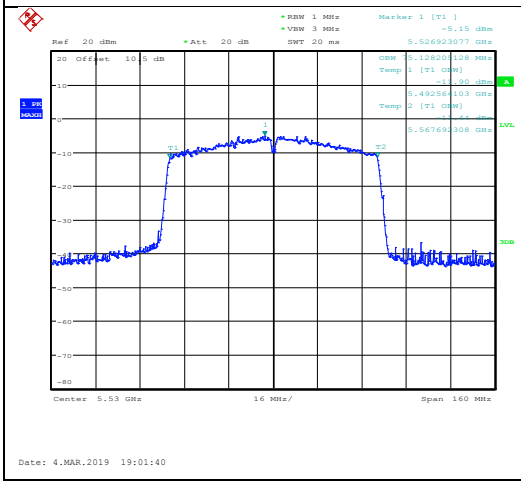
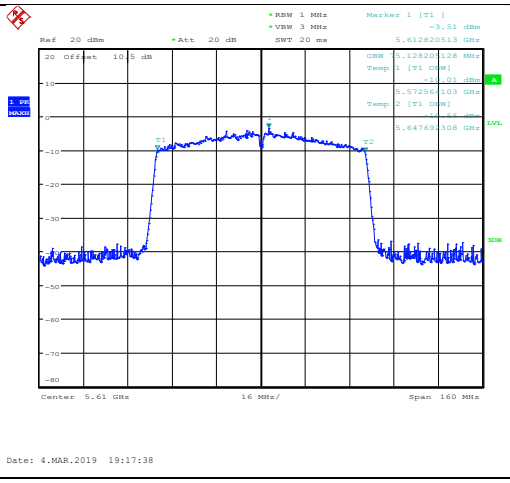
<Chain 0>

5530MHz	5610MHz
	
Date: 4.MAR.2019 18:56:58	Date: 4.MAR.2019 19:15:25

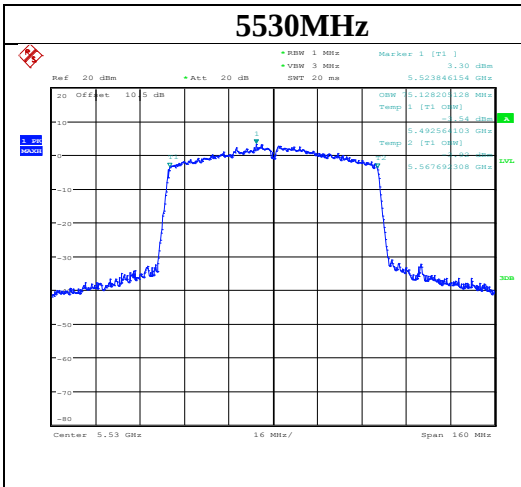
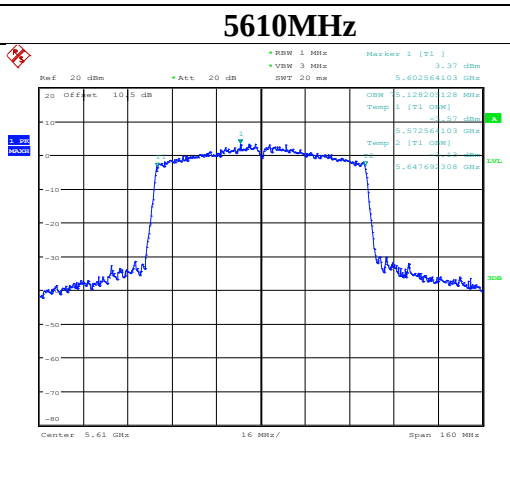
<Chain 1>

5530MHz	5610MHz
	
Date: 4.MAR.2019 18:59:33	Date: 4.MAR.2019 19:10:26

<Chain 2>

5530MHz	5610MHz
	

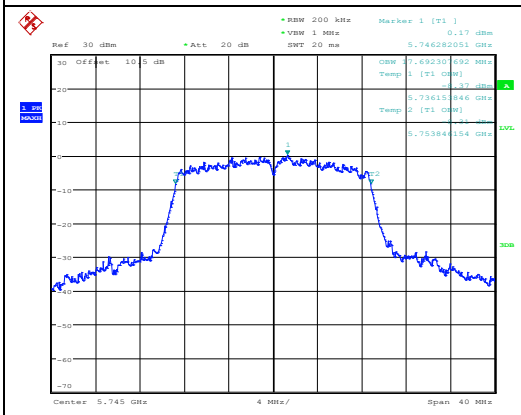
<Chain 3>

5530MHz	5610MHz
	

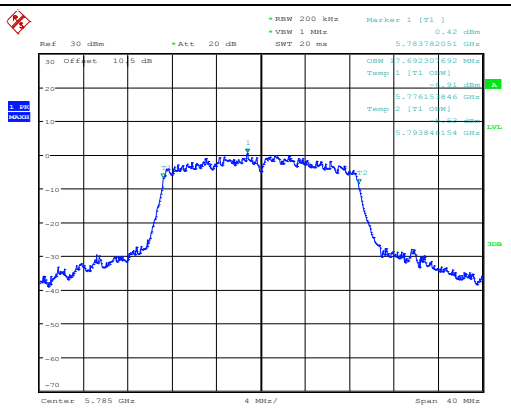
UNII-3 Band IV / OBW 99%
IEEE 802.11a Mode / 5725 ~ 5850MHz

<Chain 0>

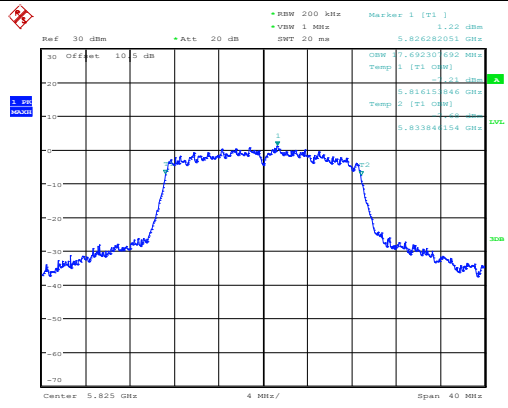
5745MHz



5785MHz

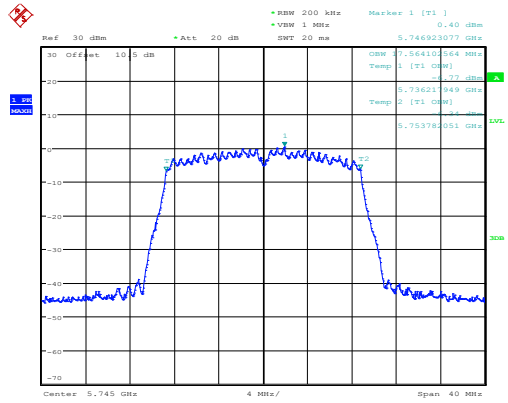


5825MHz

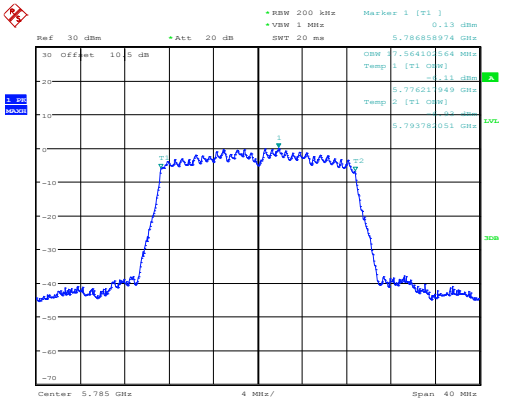


<Chain 1>

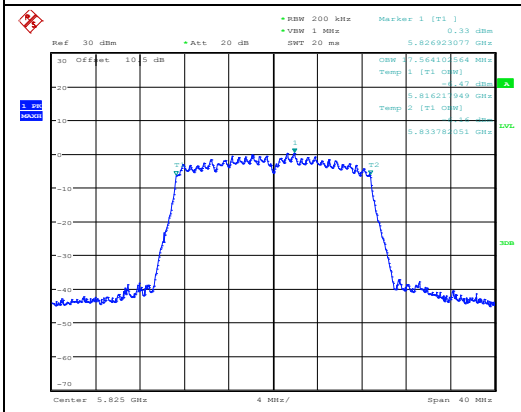
5745MHz



5785MHz

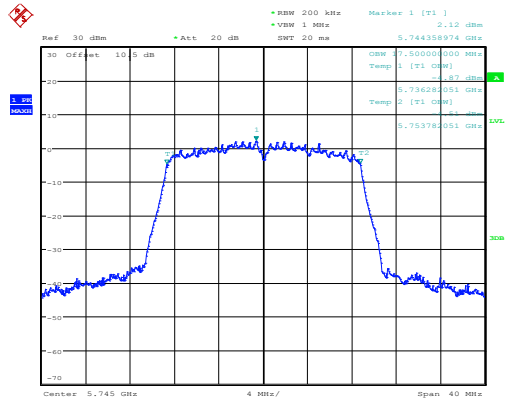


5825MHz

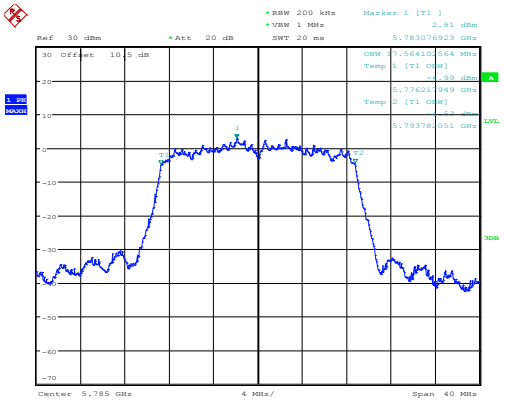


<Chain 2>

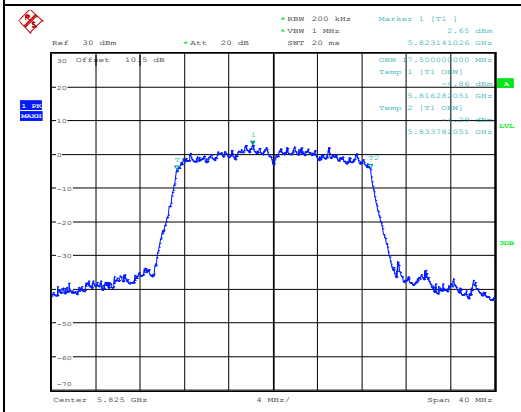
5745MHz



5785MHz

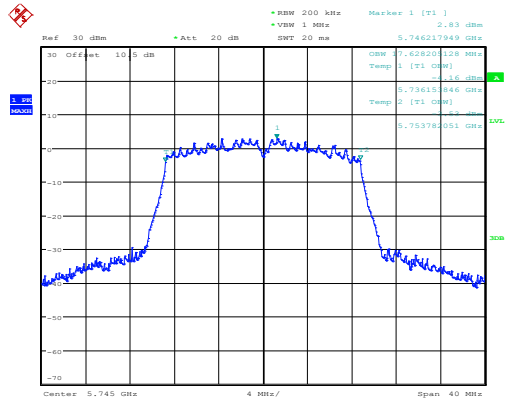


5825MHz



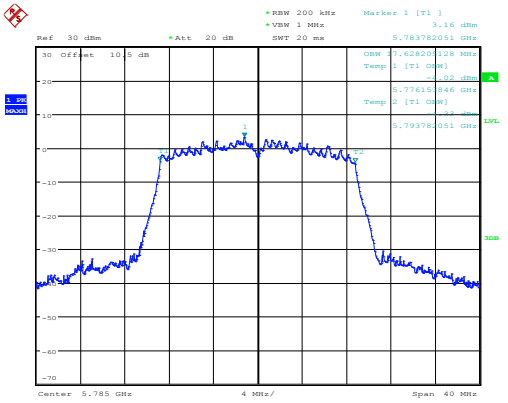
<Chain 3>

5745MHz



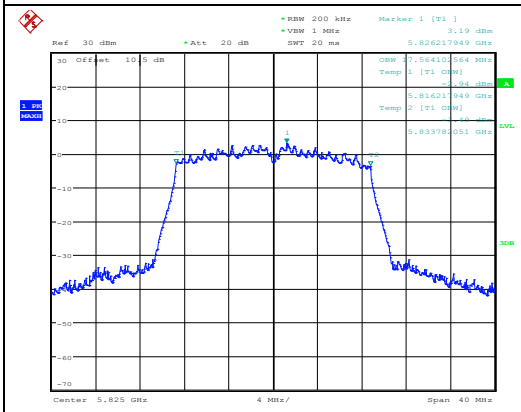
Date: 21.FEB.2019 16:35:05

5785MHz



Date: 21.FEB.2019 16:52:39

5825MHz

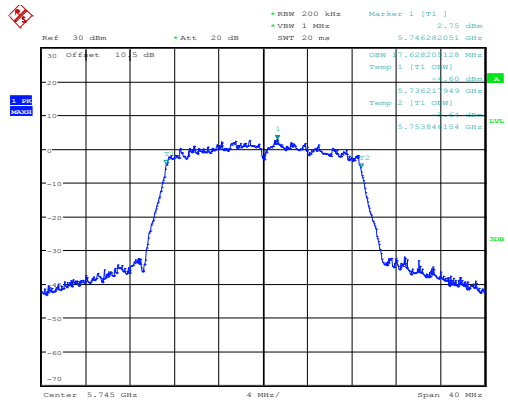


Date: 21.FEB.2019 17:08:31

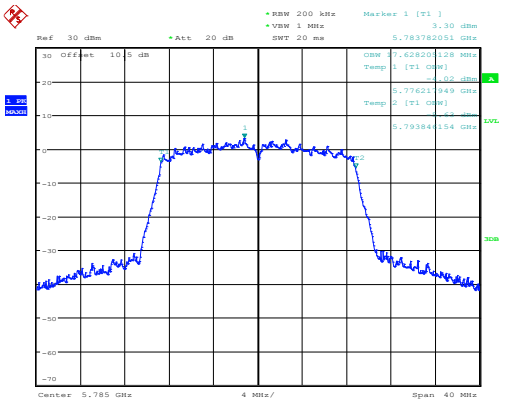
IEEE 802.11ac VHT20 Mode / 5725 ~ 5850MHz

<Chain 0>

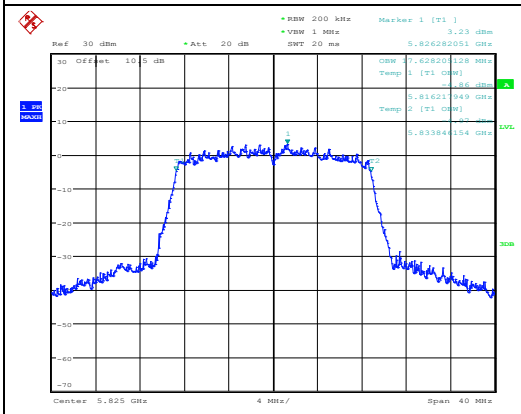
5745MHz



5785MHz

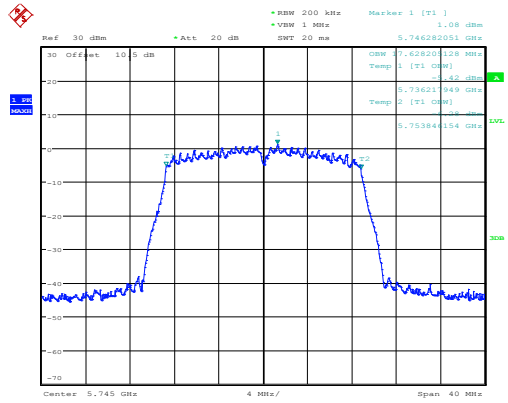


5825MHz



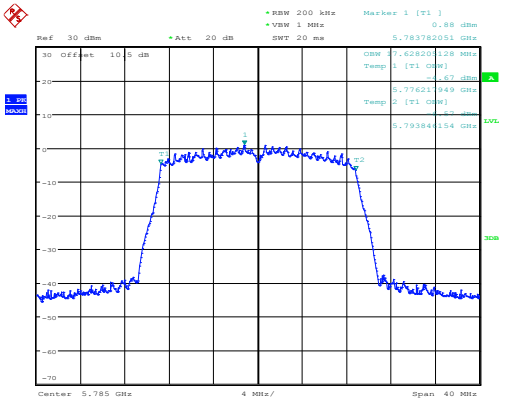
<Chain 1>

5745MHz



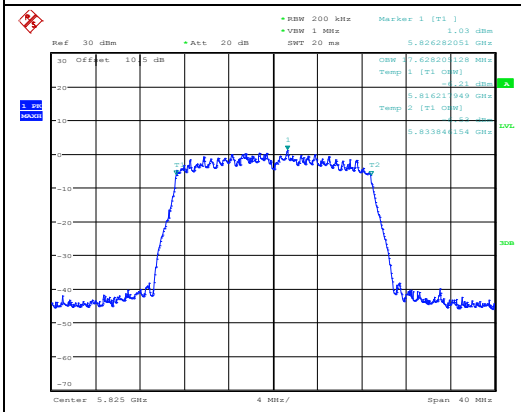
Date: 22.FEB.2019 13:35:37

5785MHz



Date: 22.FEB.2019 14:02:54

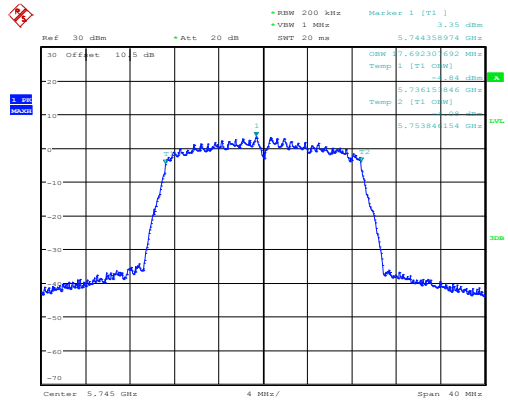
5825MHz



Date: 22.FEB.2019 15:50:02

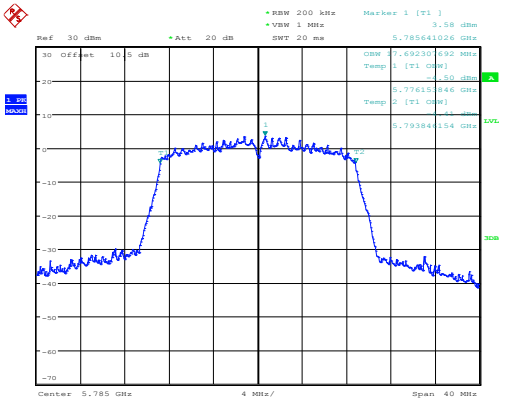
<Chain 2>

5745MHz



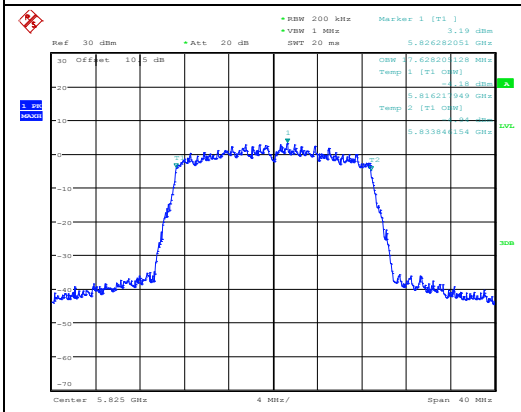
Date: 22.FEB.2019 13:33:27

5785MHz



Date: 22.FEB.2019 14:04:59

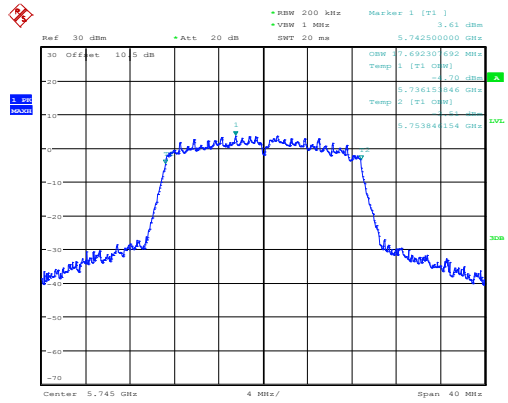
5825MHz



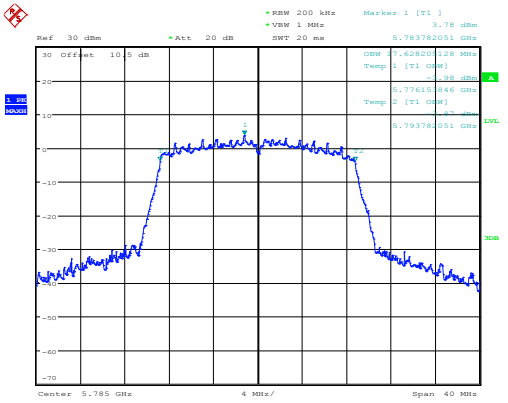
Date: 22.FEB.2019 15:42:58

<Chain 3>

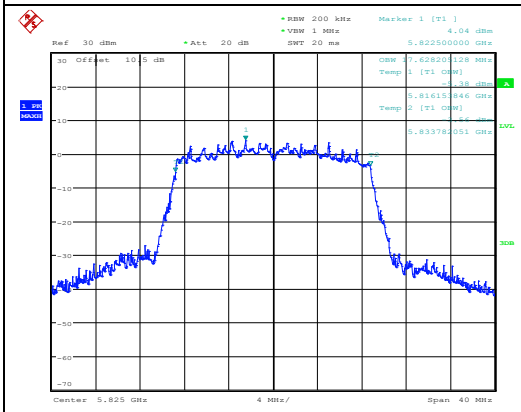
5745MHz



5785MHz

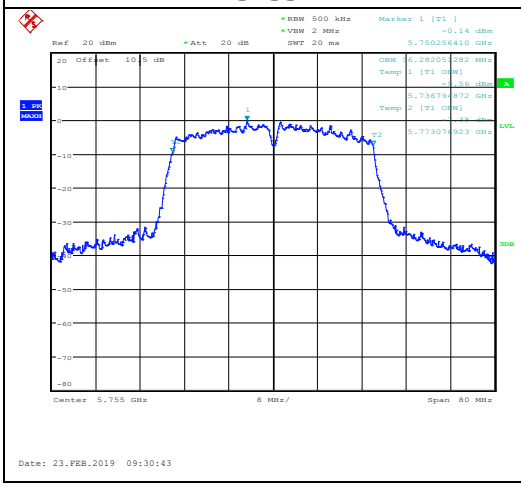
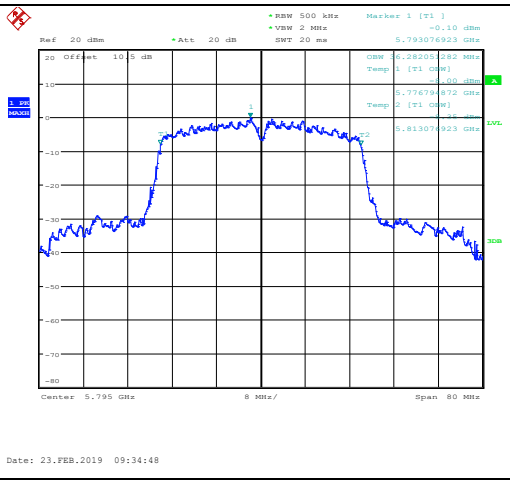


5825MHz



IEEE 802.11ac VHT40 Mode / 5725 ~ 5850MHz

<Chain 0>

5755MHz	5795MHz
	
Date: 23.FEB.2019 09:30:43	Date: 23.FEB.2019 09:34:48

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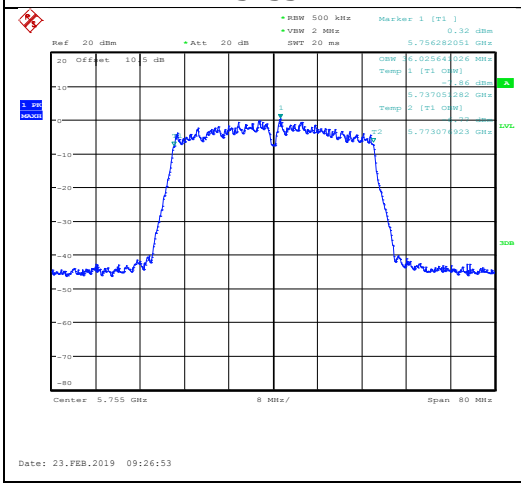
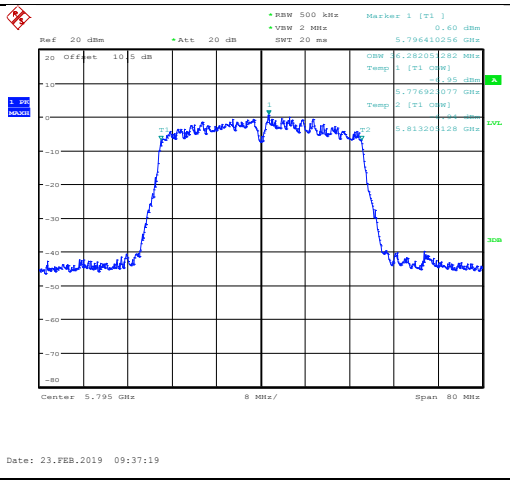
5755MHz	5795MHz
	
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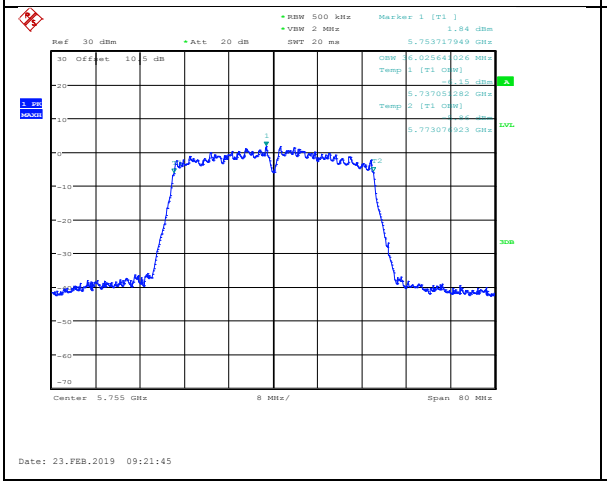
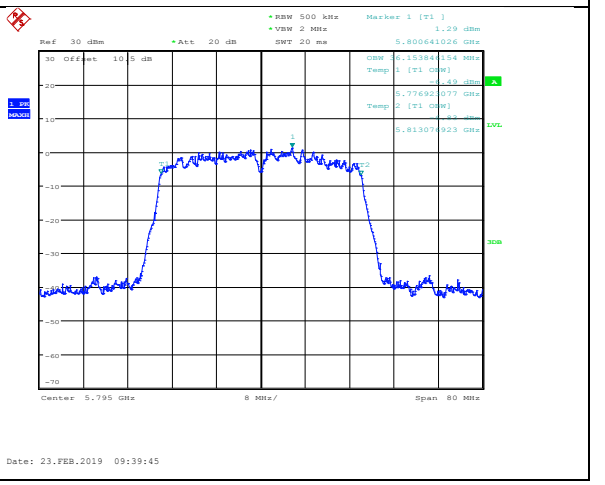
5755MHz



5795MHz



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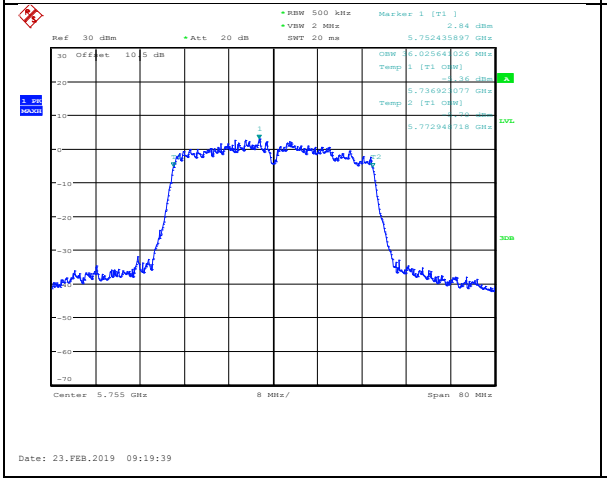
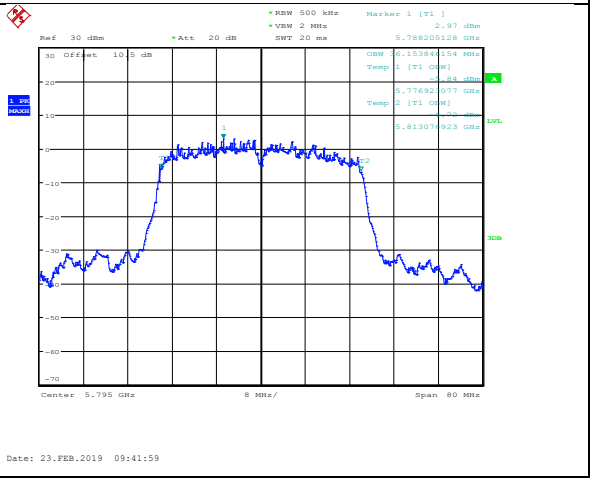
5755MHz



5795MHz



IEEE 802.11ac VHT80 Mode / 5725 ~ 5850MHz

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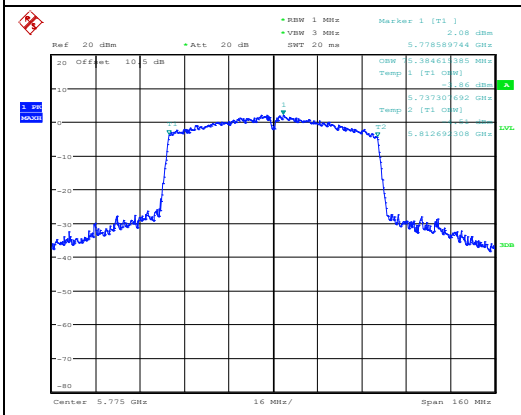	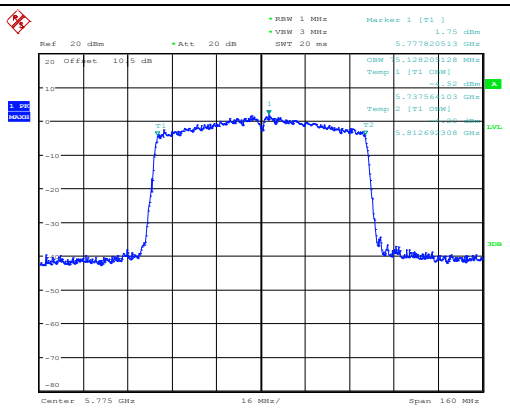
Date: 23.FEB.2019 10:58:12	Date: 23.FEB.2019 10:54:57
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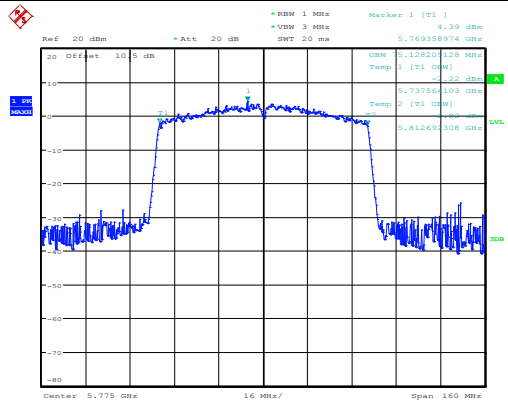
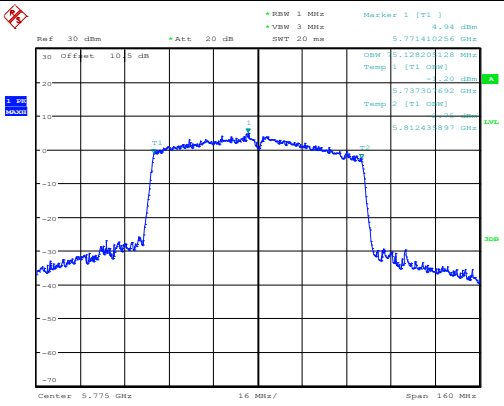
	
Date: 23.FEB.2019 10:52:39	Date: 23.FEB.2019 10:49:47

10 FCC §15.407(a)(1),(2),(3) – Maximum Output Power

10.1 Applicable Standard

According to FCC §15.407(a):

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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 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 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. 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.

10.2 Test Procedure

According to 789033 D02 General U-NII Test Procedures New Rules v02r01

The use Power Meter

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 a Power sensor.

10.3 Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	55 %
ATM Pressure:	1010 hPa

The testing was performed by Tom Hsu from 2019-02-21 to 2019-03-04.

10.4 Test Results

Test Mode: Transmitting

UNII Band	Mode	Channel	Frequency (MHz)	Maximum Conducted Average Output Power(dBm)					Duty Factor (dB)	Total Maximum Conducted Average Output Power With Duty Factor (dBm)	Limit (dBm)
				Chain 0	Chain 1	Chain 2	Chain3	Total			
UNII-1	802.11a	36	5180	4.04	6.73	5.69	5.81	11.69	0.97	12.66	23.5
		40	5200	4.27	6.73	6.75	6.09	12.09	0.97	13.06	23.5
		48	5240	4.09	6.27	5.98	6.19	11.74	0.97	12.71	23.5
UNII-2A		52	5260	4.34	7.58	6.72	6.52	12.46	0.97	13.43	23.5
		60	5300	4.85	6.7	6.97	6.72	12.41	0.97	13.38	23.5
		64	5320	4.3	7.29	6.93	7.22	12.61	0.97	13.58	23.5
UNII-2C		100	5500	5.05	6.74	6.65	8.91	13.08	0.97	14.05	23.5
		116	5580	5.58	7.42	7.66	7.53	13.15	0.97	14.12	23.5
		140	5700	4.72	5.11	6.91	7.92	12.38	0.97	13.35	23.5
UNII-3		149	5745	9.5	7.79	9.49	9.86	15.25	0.97	16.22	29.5
		157	5785	9.58	7.88	9.31	9.71	15.2	0.97	16.17	29.5
		165	5825	9.81	7.42	9.23	10.15	15.29	0.97	16.26	29.5
UNII-1	802.11 ac20	36	5180	2.7	5.85	6.16	4.66	11.06	2.68	13.74	23.5
		40	5200	3.57	5.91	6.13	5.18	11.33	2.68	14.01	23.5
		48	5240	3.51	5.39	5.54	5.53	11.09	2.68	13.77	23.5
UNII-2A		52	5260	2.03	6.21	5.88	4.98	11.07	2.68	13.75	23.5
		60	5300	3.23	6.16	6.44	4.86	11.37	2.68	14.05	23.5
		64	5320	3.63	5.91	6.03	4.89	11.24	2.68	13.92	23.5
UNII-2C		100	5500	5.19	1.07	1.43	8.16	10.98	2.68	13.66	23.5
		116	5580	5.46	1.42	1.49	7.93	10.98	2.68	13.66	23.5
		140	5700	5.57	2.73	1.68	8.18	11.31	2.68	13.99	23.5
UNII-3		149	5745	8.24	6.11	8.08	8.85	13.95	2.68	16.63	29.5
		157	5785	8.52	6.25	8.27	8.97	14.14	2.68	16.82	29.5
		165	5825	8.88	6.05	8.32	9.15	14.28	2.68	16.96	29.5

UNII Band	Mode	Channel	Frequency (MHz)	Maximum Conducted Average Output Power(dBm)					Duty Factor (dB)	Total Maximum Conducted Average Output Power With Duty Factor (dBm)	Limit (dBm)
				Chain 0	Chain 1	Chain 2	Chain3	Total			
UNII-1	802.11 ac 40	38	5190	7.62	4.71	3.77	8.21	12.49	3.98	16.47	23.5
		46	5230	7.73	4.3	3.45	8.26	12.44	3.98	16.42	23.5
UNII-2A		54	5270	7.87	5.32	4.41	8.31	12.8	3.98	16.78	23.5
		62	5310	8.04	5.24	4.16	8.71	12.95	3.98	16.93	23.5
		102	5510	1.32	7.01	6.95	9.17	12.92	3.98	16.90	23.5
UNII-2C		118	5590	4.26	7.33	7.29	8.76	13.21	3.98	17.19	23.5
		134	5670	5.26	7.26	7.06	8.21	13.09	3.98	17.07	23.5
UNII-3		151	5755	5.44	3	5.52	5.73	11.07	3.98	15.05	29.5
		159	5795	5.53	3.13	5.7	6.07	11.27	3.98	15.25	29.5
UNII-1	802.11 ac 80	42	5210	8.95	5.56	5.19	4.76	12.49	5.38	17.87	23.5
UNII-2A		58	5290	6.55	5.82	6.17	5.13	11.97	5.38	17.35	23.5
UNII-2C		106	5530	5.06	1.97	1.98	8.78	11.43	5.38	16.81	23.5
		122	5610	6.01	2.59	1.69	9	11.83	5.38	17.21	23.5
UNII-3		155	5775	4.75	3.21	4.64	5.29	10.56	5.38	15.94	29.5

According to FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

The device have four antenna, so array gain is 0 dB.

11 FCC § 15.407(a)(1),(2),(3) – Power Spectral Density

11.1 Applicable Standard

According to FCC §15.407(a):

For an indoor access point operating in the band 5.15-5.25GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6dBi. In addition, the maximum power spectral density shall not exceed 17dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi 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 6dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. 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 30dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6dBi 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 6dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi 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.

11.2 Test Procedure

According to 789033 D02 General U-NII Test Procedures New Rules v02r01

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 Section 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 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.

11.3 Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	55 %
ATM Pressure:	1010 hPa

The testing was performed by Tom Hsu from 2019-02-21 to 2019-03-04.

11.4 Test Results

Test Mode: Transmitting

UNII Band	Mode	Channel	Frequency (MHz)	Maximum Power Spectral Density(dBm/MHz)					Duty Factor (dB)	Total Maximum Power Spectral DensityV with duty factor (dBm/MHz)	Limit (dBm/MHz)
				Chain 0	Chain 1	Chain 2	Chain3	Total			
UNII-1	802.11a	36	5180	-5.95	-2.83	-4.02	-3.94	1.97	0.97	2.94	4.48
		40	5200	-5.32	-2.86	-3.08	-3.5	2.43	0.97	3.40	4.48
		48	5240	-5.72	-3.37	-3.63	-3.48	2.07	0.97	3.04	4.48
	802.11 ac20	36	5180	-6.87	-3.55	-3.57	-4.97	1.48	2.68	4.16	4.48
		40	5200	-6.1	-3.57	-3.63	-4.51	1.68	2.68	4.36	4.48
		48	5240	-5.99	-4.08	-4.13	-4.39	1.44	2.68	4.12	4.48
	802.11 ac40	38	5190	-4.55	-7.84	-8.86	-4.56	-0.02	3.98	3.96	4.48
		46	5230	-4.81	-7.87	-9.1	-4.23	-0.02	3.98	3.96	4.48
	802.11 ac80	42	5210	-4.87	-8.14	-8.32	-9.26	-1.28	5.38	4.10	4.48
UNII-2A	802.11a	52	5260	-4.99	-2.13	-3.13	-3.28	2.75	0.97	3.72	4.48
		60	5300	-4.67	-3.32	-2.86	-3	2.61	0.97	3.58	4.48
		64	5320	-5.62	-2.31	-2.73	-2.56	2.9	0.97	3.87	4.48
	802.11 ac20	52	5260	-7.14	-3.2	-3.85	-3.86	1.75	2.68	4.43	4.48
		60	5300	-6.41	-3.45	-3.45	-4.76	1.66	2.68	4.34	4.48
		64	5320	-6	-3.44	-3.56	-4.85	1.68	2.68	4.36	4.48
	802.11 ac40	54	5270	-4.55	-7.25	-8.23	-4.2	0.29	3.98	4.27	4.48
		62	5310	-4.48	-7.18	-8.53	-3.86	0.41	3.98	4.39	4.48
	802.11 ac80	58	5290	-7.12	-7.82	-7.42	-8.8	-1.72	5.38	3.66	4.48
UNII-2C	802.11a	100	5500	-4.93	-3	-3.53	-0.56	3.31	0.97	4.28	4.48
		116	5580	-4.05	-2.17	-2.22	-1.97	3.49	0.97	4.46	4.48
		140	5700	-5.02	-4.22	-2.26	-1.34	3.06	0.97	4.03	4.48
	802.11 ac20	100	5500	-4.45	-8.51	-7.74	-1.56	1.36	2.68	4.04	4.48
		116	5580	-4.26	-8.05	-8.02	-1.73	1.34	2.68	4.02	4.48
		140	5700	-4.1	-7.01	-8.02	-1.62	1.57	2.68	4.25	4.48
	802.11 ac40	102	5510	-11.27	-5.55	-5.76	-3.25	0.38	3.98	4.36	4.48
		118	5590	-8.18	-5.33	-5.34	-4.24	0.47	3.98	4.45	4.48
		134	5670	-7.24	-5.49	-5.68	-4.28	0.47	3.98	4.45	4.48
	802.11 ac80	106	5530	-8.56	-11.96	-11.89	-4.96	-2.31	5.38	3.07	4.48
		122	5610	-7.64	-11.33	-11.78	-4.93	-1.98	5.38	3.40	4.48

UNII Band	Mode	Channel	Frequency (MHz)	Maximum Power Spectral Density(dBm/MHz)					Duty Factor (dB)	Total Maximum Power Spectral DensityV with duty factor (dBm/MHz)	Limit (dBm/MHz)
				Chain 0	Chain 1	Chain 2	Chain3	Total			
UNII-3	802.11a	149	5745	-1.77	-2.25	-0.28	0.91	5.35	0.97	6.32	23.48
		157	5785	-1.74	-2.48	-0.02	0.61	5.29	0.97	6.26	23.48
		165	5825	-1.32	-2.34	-0.18	0.71	5.39	0.97	6.36	23.48
	802.11 ac20	149	5745	0.5	-1.33	0.35	1.4	6.36	2.68	9.04	23.48
		157	5785	0.85	-1.45	0.69	1.12	6.43	2.68	9.11	23.48
		165	5825	0.78	-1.49	0.74	1.51	6.54	2.68	9.22	23.48
	802.11 ac40	151	5755	-6.31	-7.91	-5.16	-5.04	0.06	3.98	4.04	23.48
		159	5795	-5.95	-6.94	-5.1	-3.57	0.81	3.98	4.79	23.48
	802.11 ac80	155	5775	-7.41	-8.35	-5.52	-5.3	-0.44	5.38	4.94	23.48

The device is a client device. the 4 antenna maximum antenna gain are 6.5dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for

Power spectral density (PSD) measurements on the devices:

Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

So:

Directional gain = G_{ANT} + Array Gain = 6.5+10*log(4) =12.52 dBi

The Power density Limits was reduce 6.52 dB

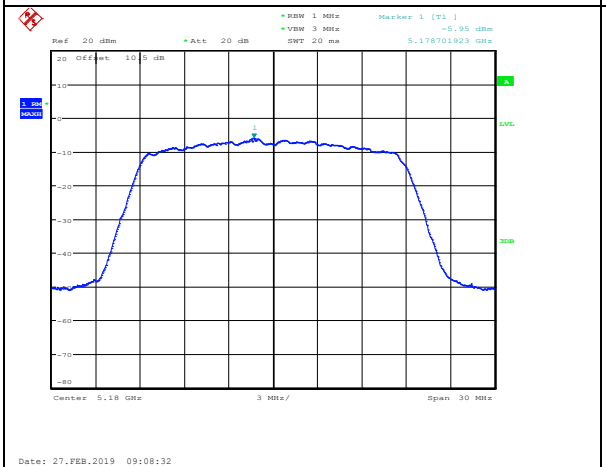
Please refer to the following plots

Test Mode: Transmitting

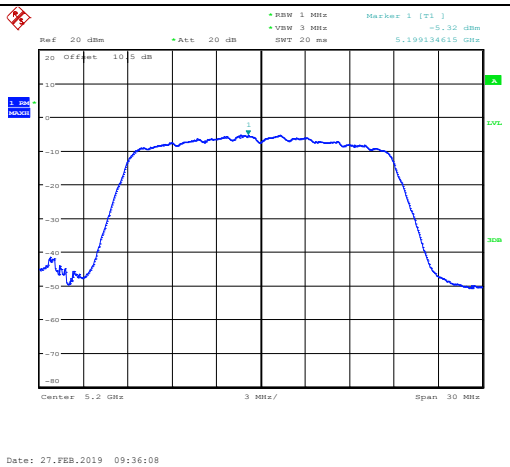
UNII-1 Band I PSD
IEEE 802.11a Mode / 5150 ~ 5250MHz

<Chain 0>

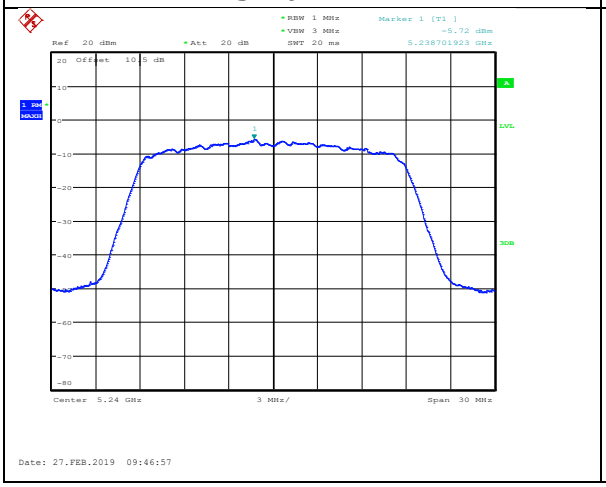
5180MHz



5200MHz

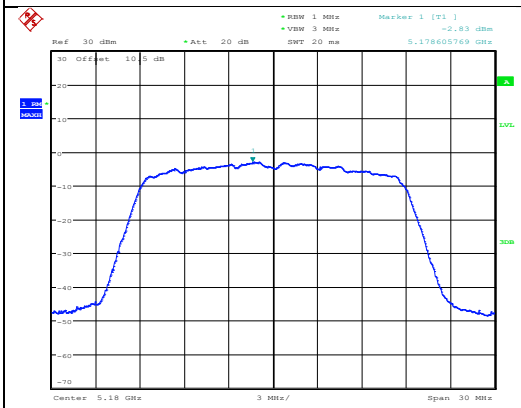


5240MHz



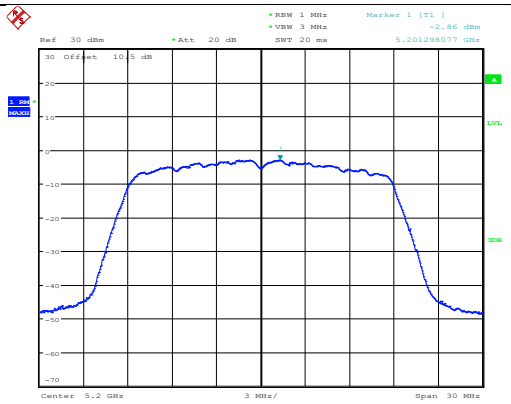
<Chain 1>

5180MHz



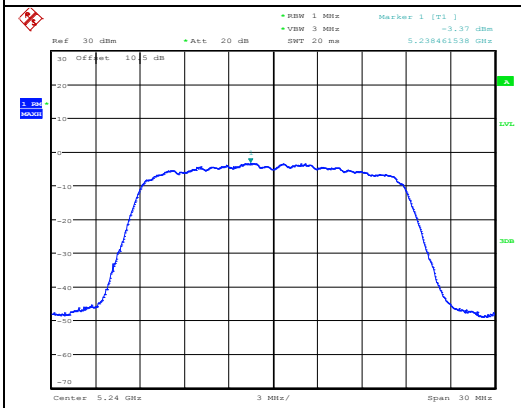
Date: 27.FEB.2019 09:12:01

5200MHz



Date: 27.FEB.2019 09:32:20

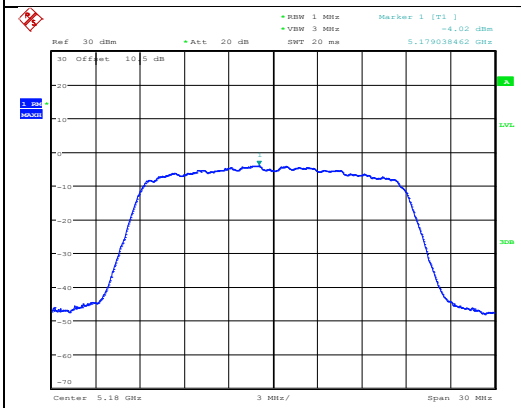
5240MHz



Date: 27.FEB.2019 09:49:04

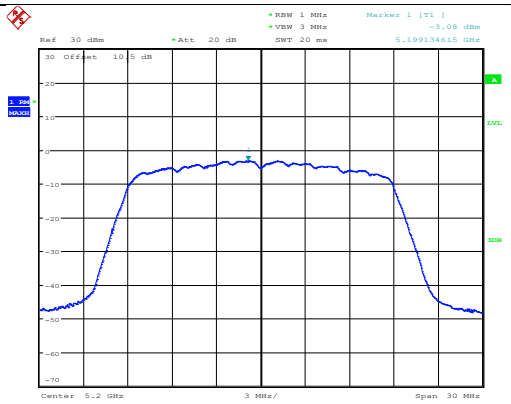
<Chain 2>

5180MHz



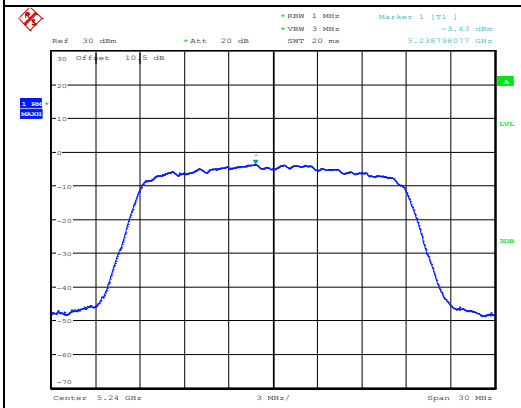
Date: 27.FEB.2019 09:14:00

5200MHz



Date: 27.FEB.2019 09:21:47

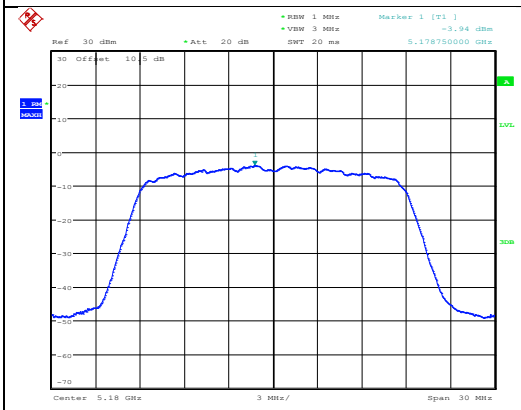
5240MHz



Date: 27.FEB.2019 09:51:55

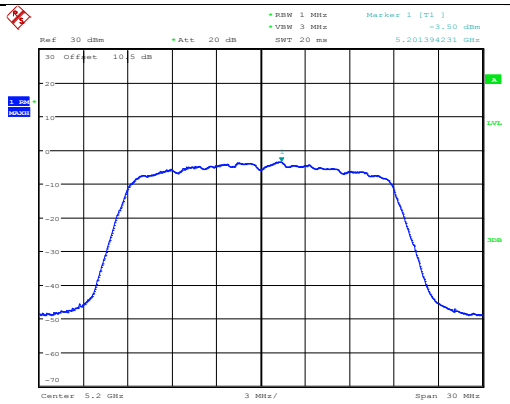
<Chain 3>

5180MHz



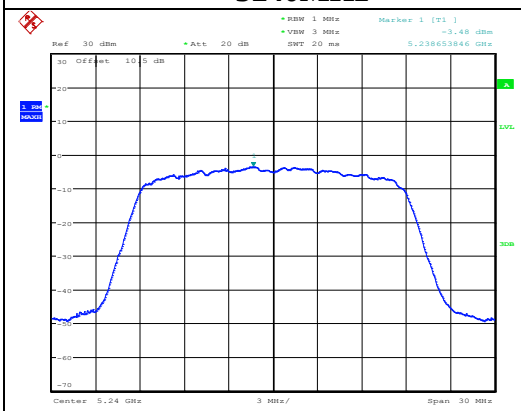
Date: 27.FEB.2019 09:16:32

5200MHz



Date: 27.FEB.2019 09:19:33

5240MHz

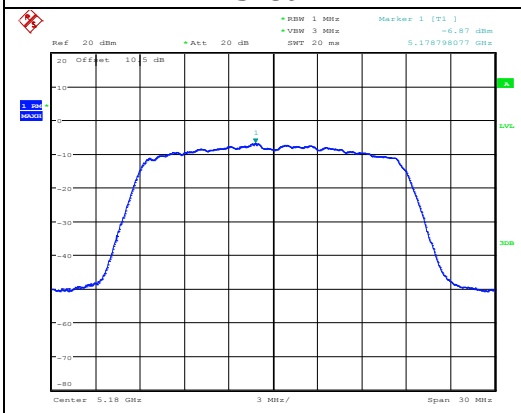


Date: 27.FEB.2019 09:54:24

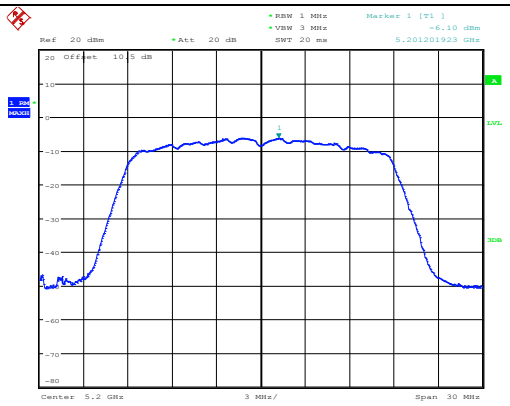
IEEE 802.11ac VHT20 Mode / 5150 ~ 5250MHz

<Chain 0>

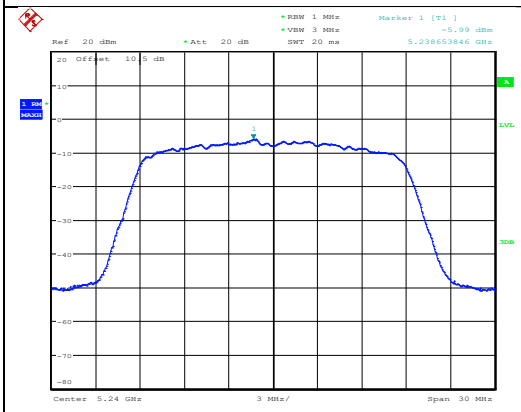
5180MHz



5200MHz

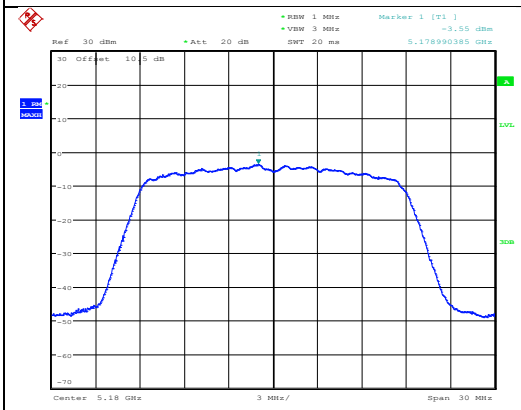


5240MHz



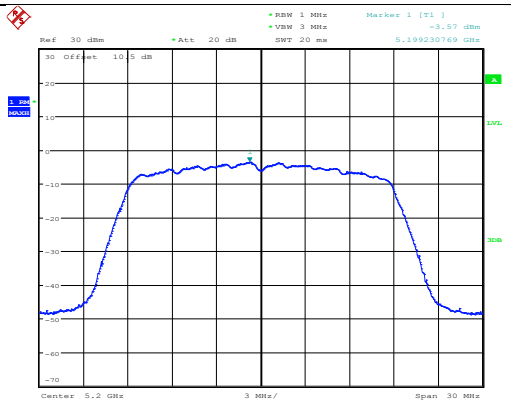
<Chain 1>

5180MHz



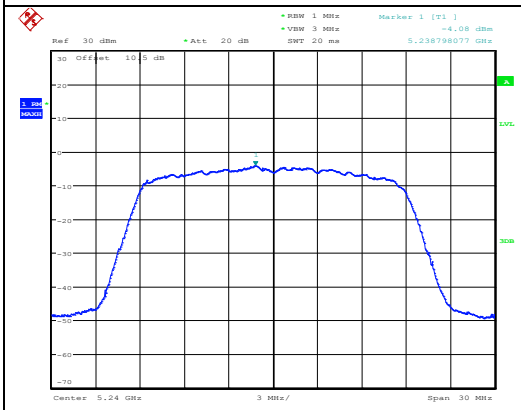
Date: 27.FEB.2019 14:24:29

5200MHz



Date: 27.FEB.2019 14:32:37

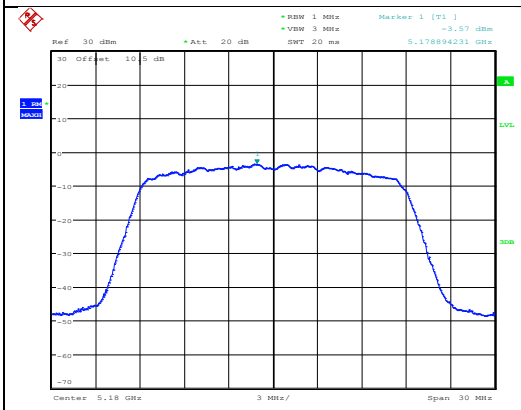
5240MHz



Date: 27.FEB.2019 14:46:00

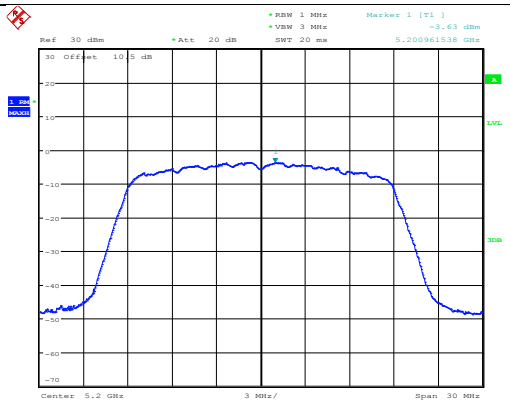
<Chain 2>

5180MHz



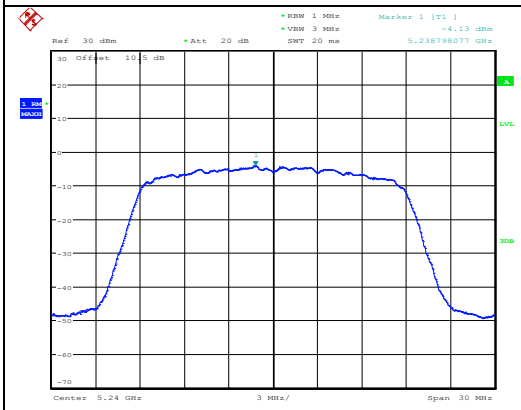
Date: 27.FEB.2019 14:18:45

5200MHz



Date: 27.FEB.2019 14:34:47

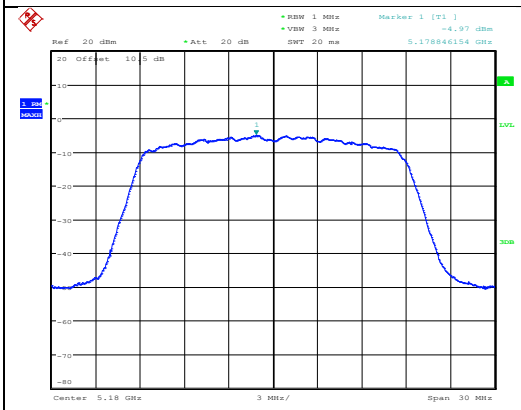
5240MHz



Date: 27.FEB.2019 14:43:37

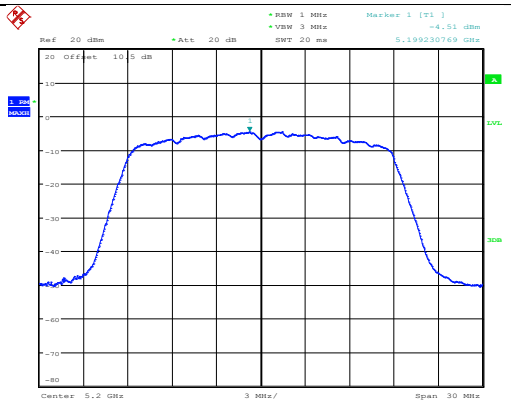
<Chain 3>

5180MHz



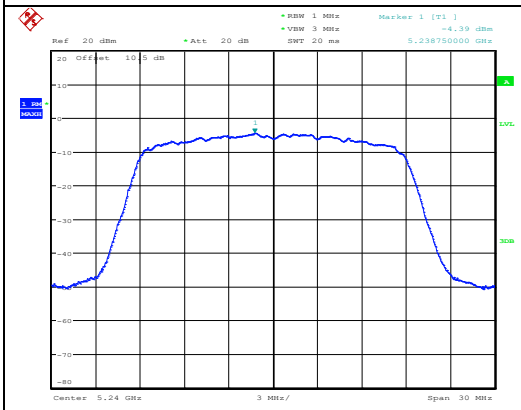
Date: 27.FEB.2019 14:22:02

5200MHz



Date: 27.FEB.2019 14:36:56

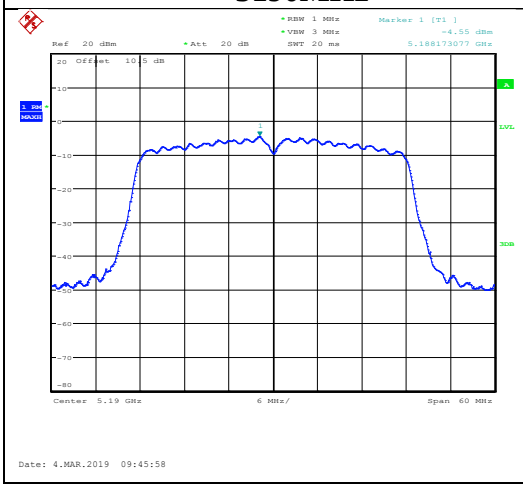
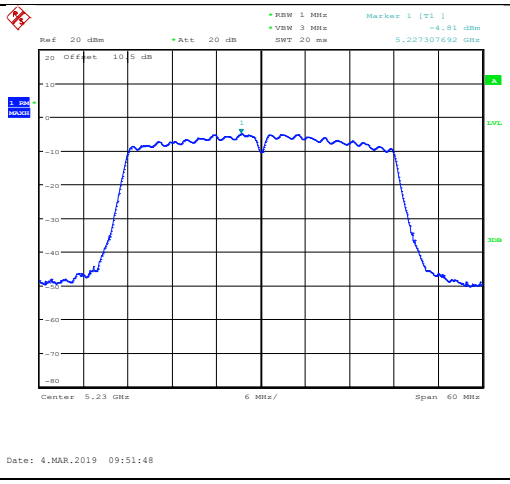
5240MHz



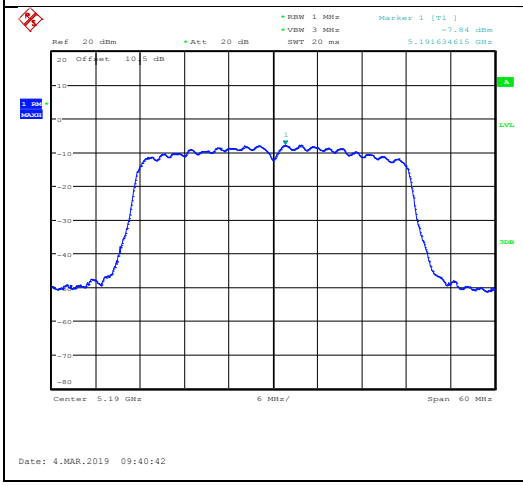
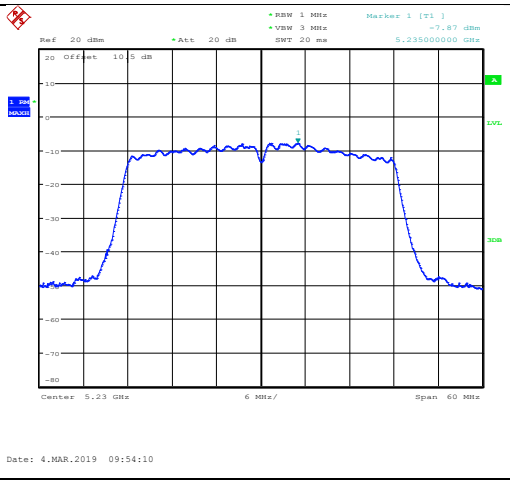
Date: 27.FEB.2019 14:39:25

IEEE 802.11ac VHT40 Mode / 5150 ~ 5250MHz

<Chain 0>

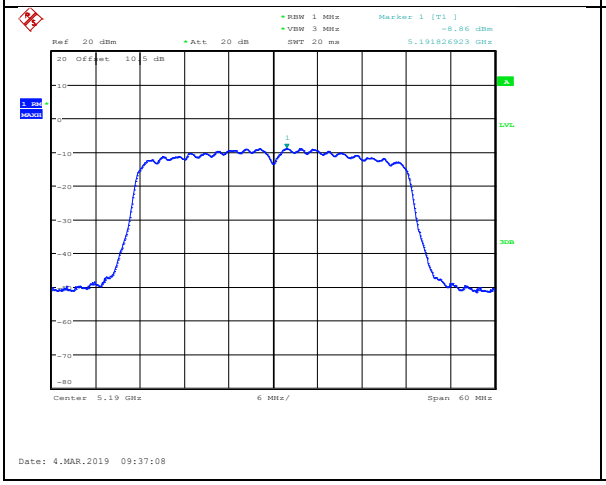
5190MHz	5230MHz
	

<Chain 1>

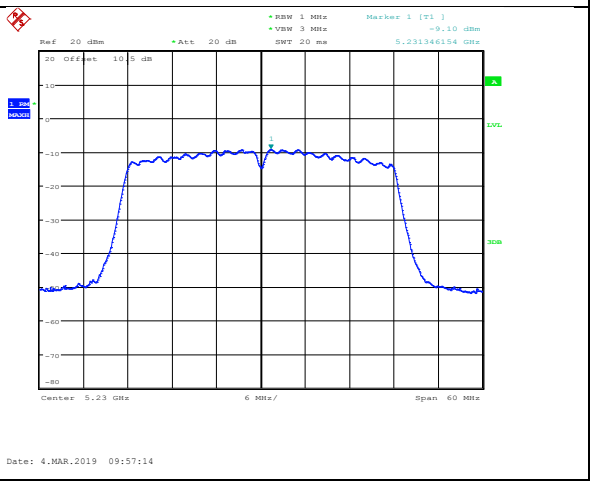
5190MHz	5230MHz
	

<Chain 2>

5190MHz

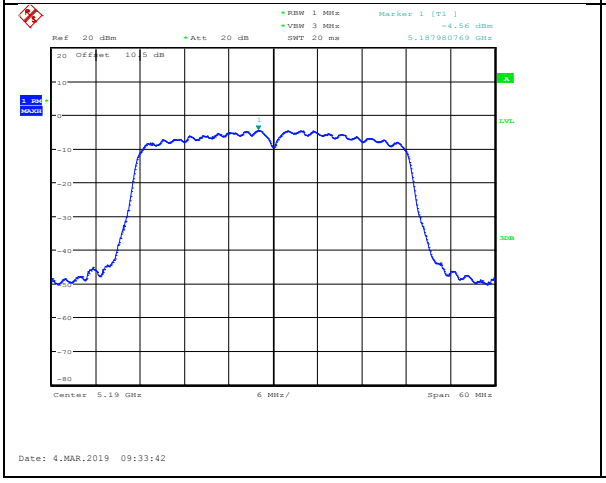


5230MHz

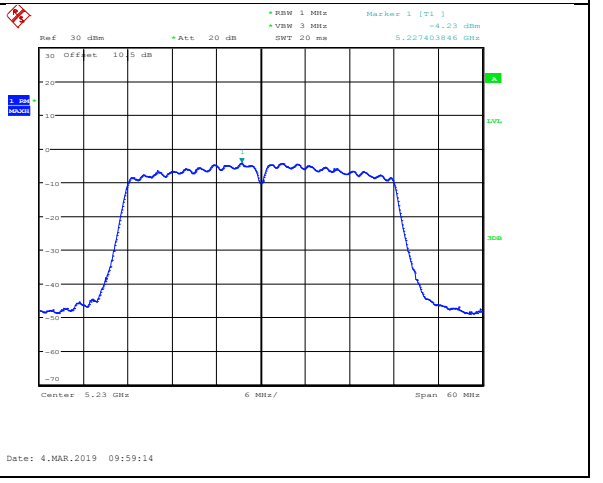


<Chain 3>

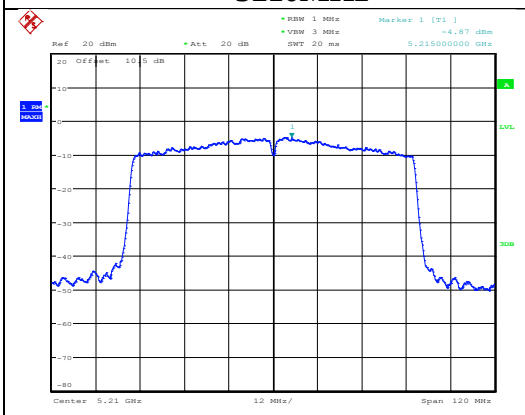
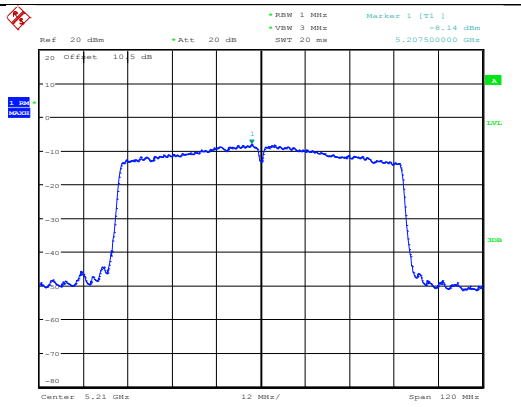
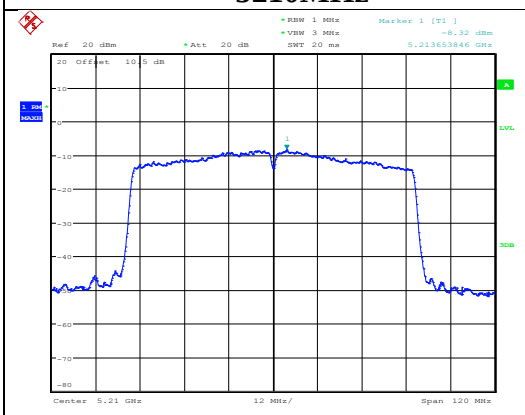
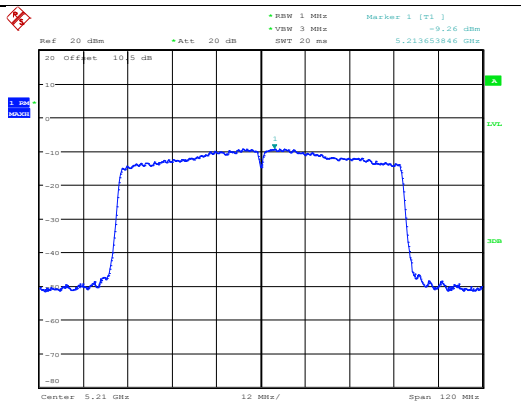
5190MHz



5230MHz



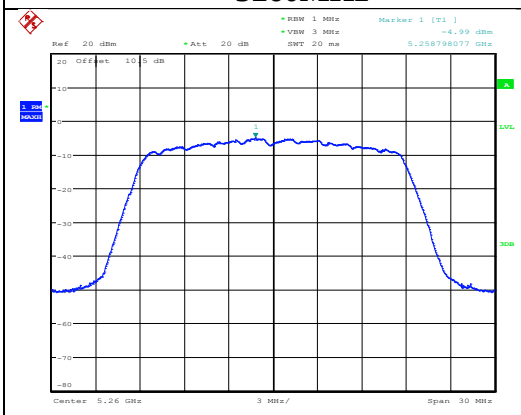
IEEE 802.11ac VHT80 Mode / 5150 ~ 5250MHz

<Chain 0> 5210MHz	<Chain 1> 5210MHz
	
<Chain 2> 5210MHz	**<Chain 3> 5210MHz**
	

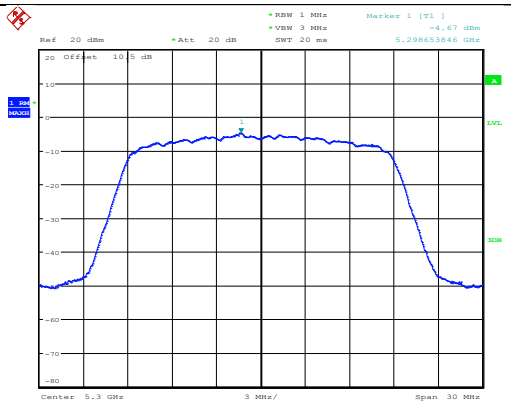
UNII-2A Band II PSD
IEEE 802.11a Mode / 5250 ~ 5350MHz

<Chain 0>

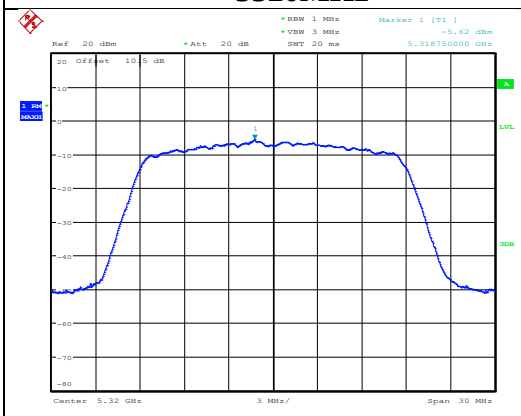
5260MHz



5300MHz

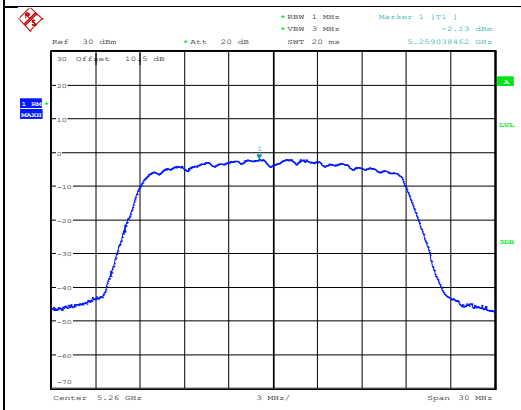


5320MHz



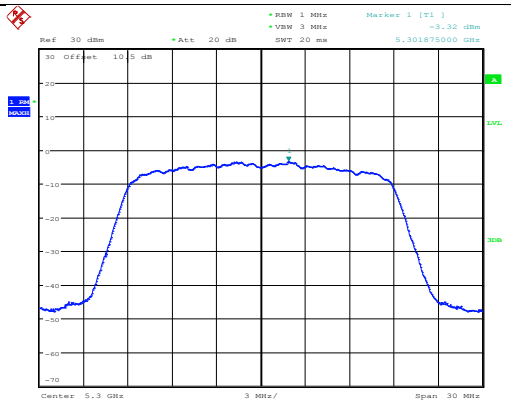
<Chain 1>

5260MHz



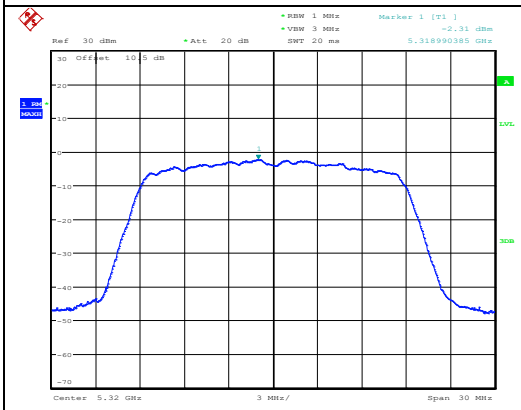
Date: 27.FEB.2019 10:02:23

5300MHz



Date: 27.FEB.2019 10:24:36

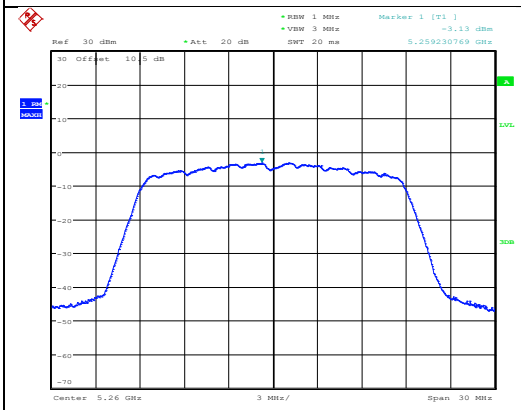
5320MHz



Date: 27.FEB.2019 10:47:07

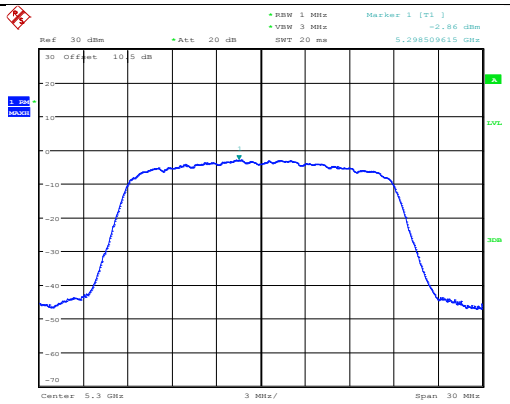
<Chain 2>

5260MHz



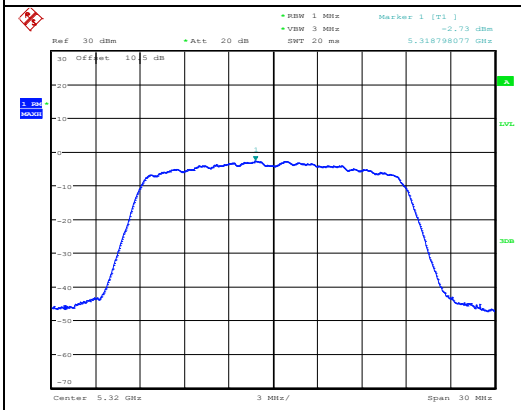
Date: 27.FEB.2019 09:59:37

5300MHz



Date: 27.FEB.2019 10:27:06

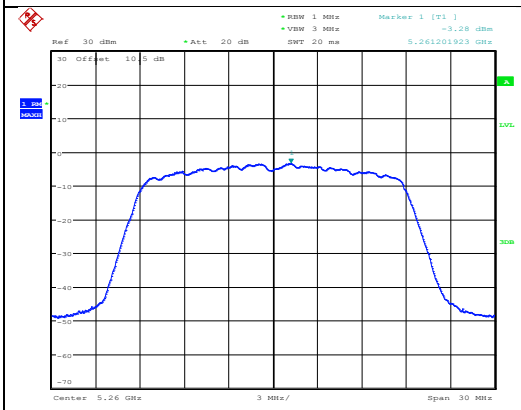
5320MHz



Date: 27.FEB.2019 10:43:17

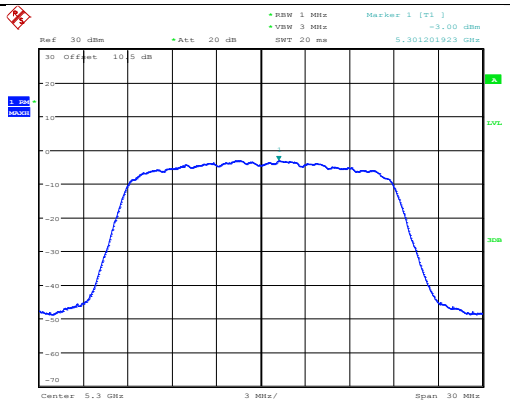
<Chain 3>

5260MHz



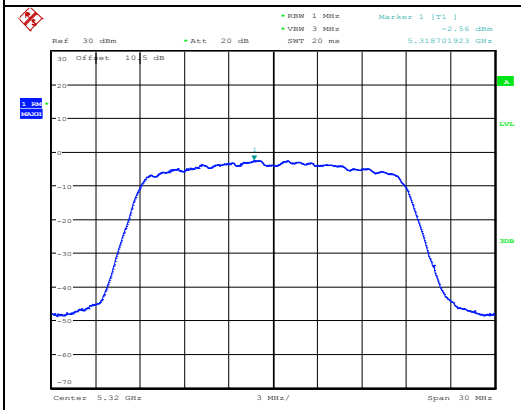
Date: 27.FEB.2019 09:57:16

5300MHz



Date: 27.FEB.2019 10:37:29

5320MHz

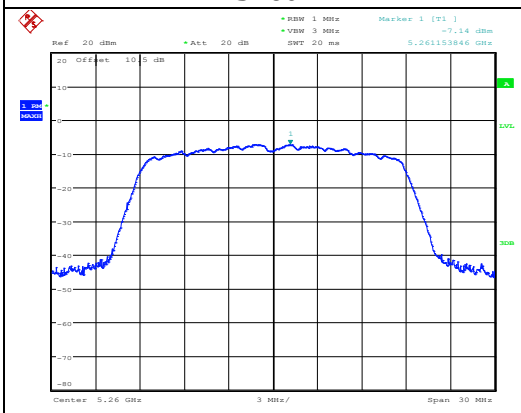


Date: 27.FEB.2019 10:40:58

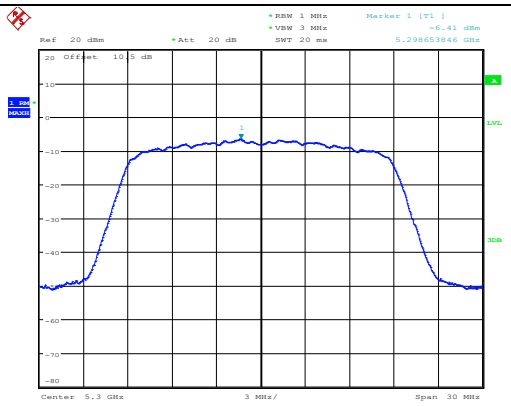
IEEE 802.11ac VHT20 Mode / 5250 ~ 5350MHz

<Chain 0>

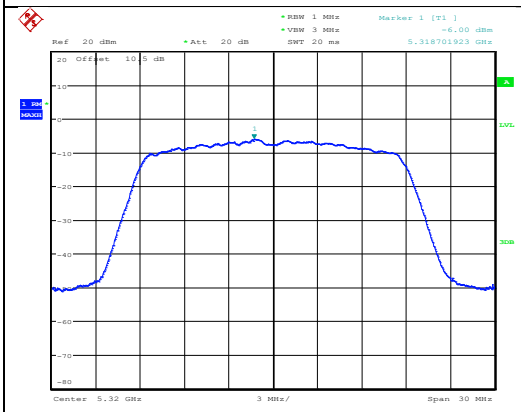
5260MHz



5300MHz

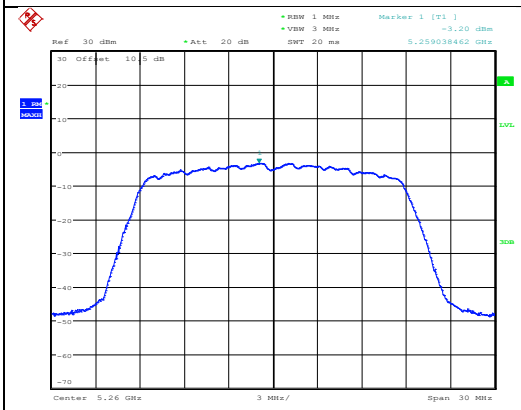


5320MHz



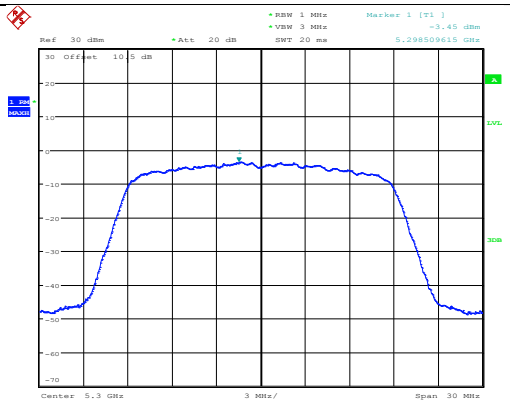
<Chain 1>

5260MHz



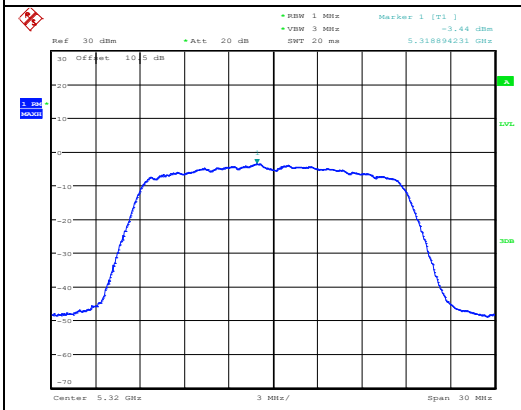
Date: 27.FEB.2019 14:58:39

5300MHz



Date: 27.FEB.2019 15:16:36

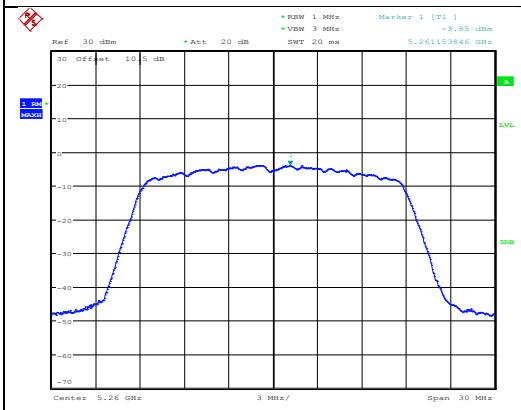
5320MHz



Date: 27.FEB.2019 15:28:00

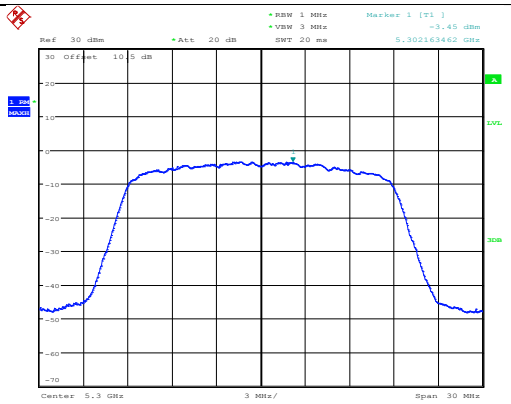
<Chain 2>

5260MHz



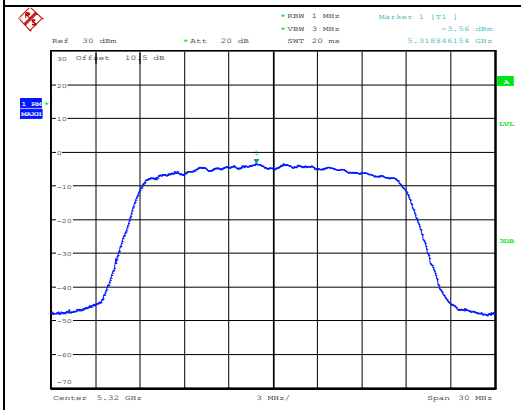
Date: 27.FEB.2019 15:02:43

5300MHz



Date: 27.FEB.2019 15:13:44

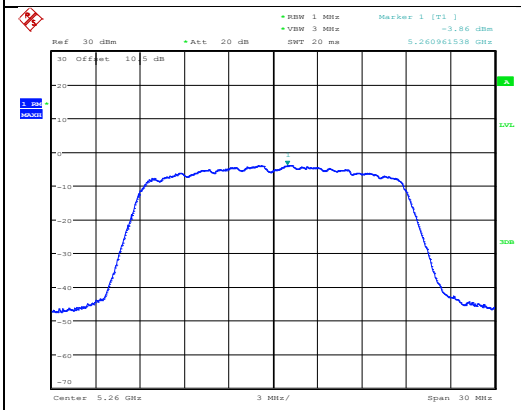
5320MHz



Date: 27.FEB.2019 15:30:19

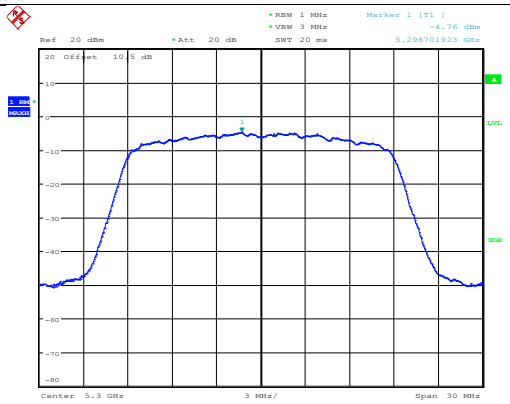
<Chain 3>

5260MHz



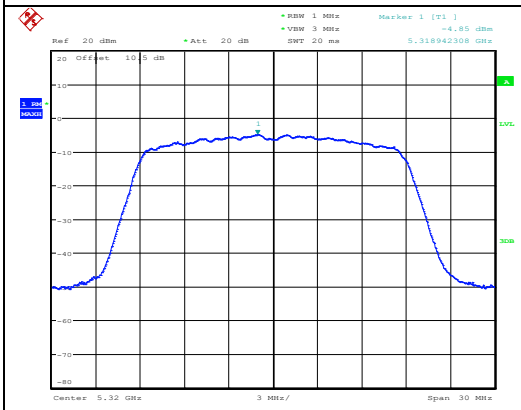
Date: 27.FEB.2019 15:05:35

5300MHz



Date: 27.FEB.2019 15:11:21

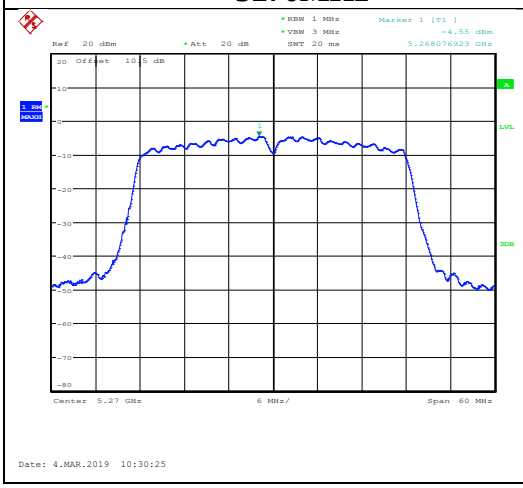
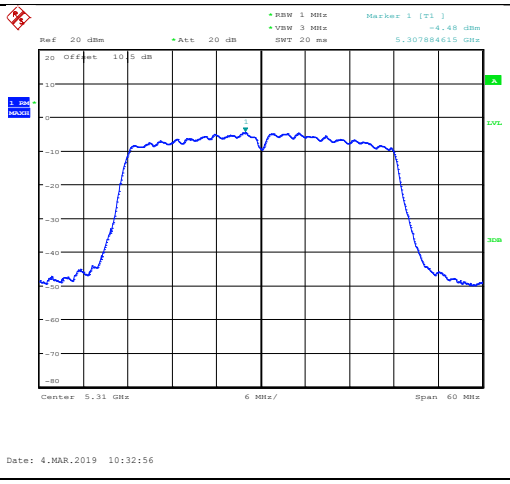
5320MHz



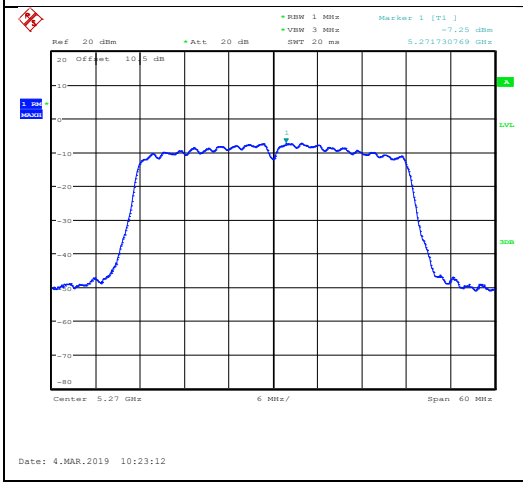
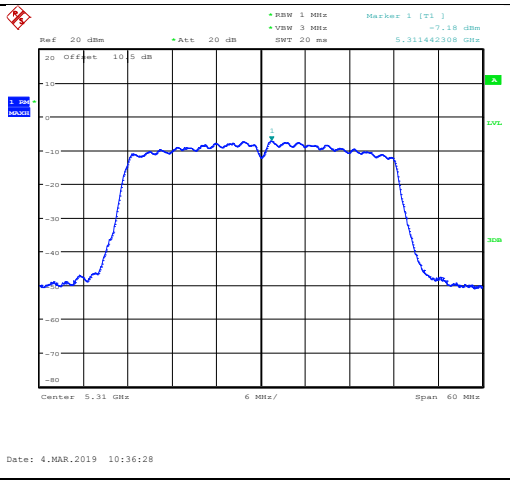
Date: 27.FEB.2019 15:35:34

IEEE 802.11ac VHT40 Mode / 5250 ~ 5350MHz

<Chain 0>

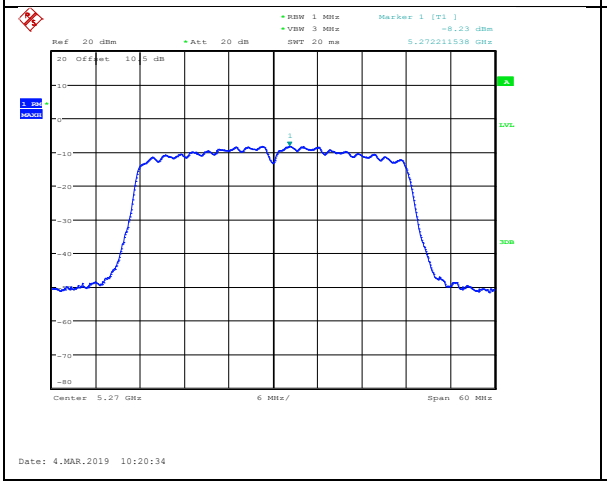
5270MHz	5310MHz
	

<Chain 1>

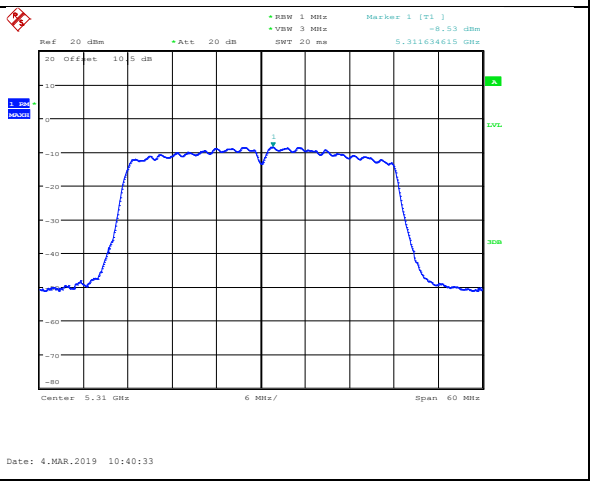
5270MHz	5310MHz
	

<Chain 2>

5270MHz

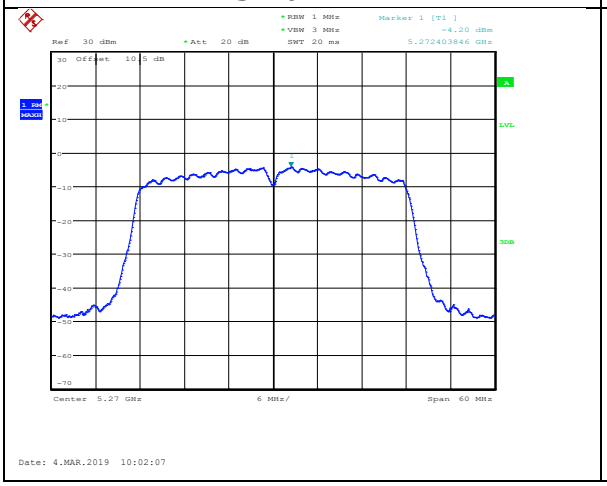


5310MHz

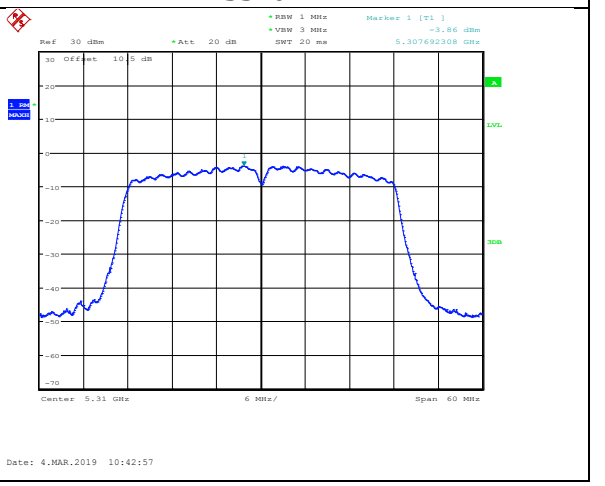


<Chain 3>

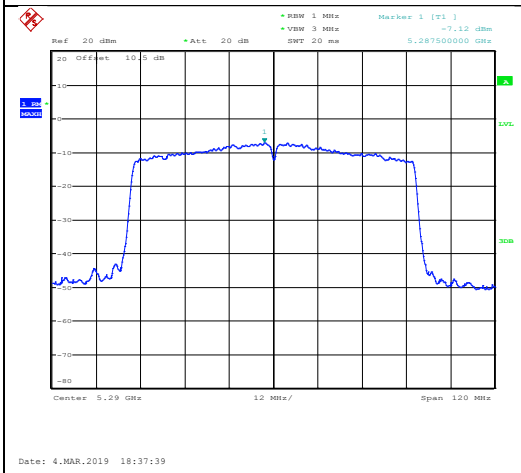
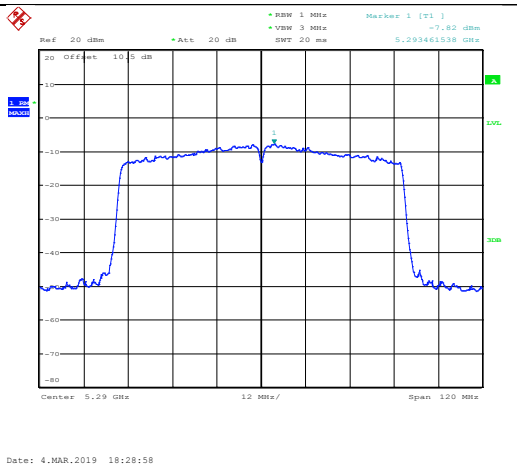
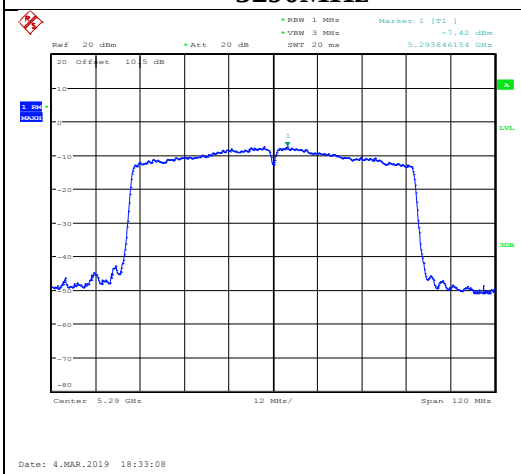
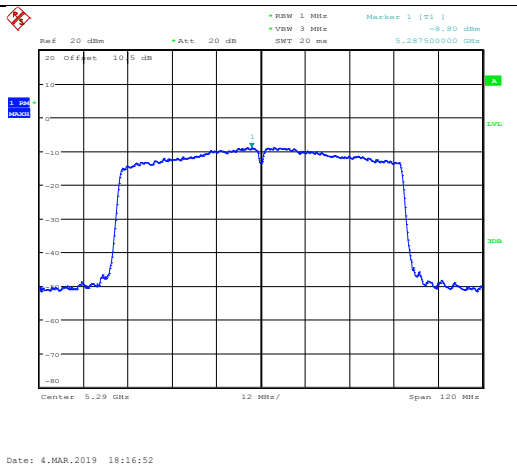
5270MHz



5310MHz



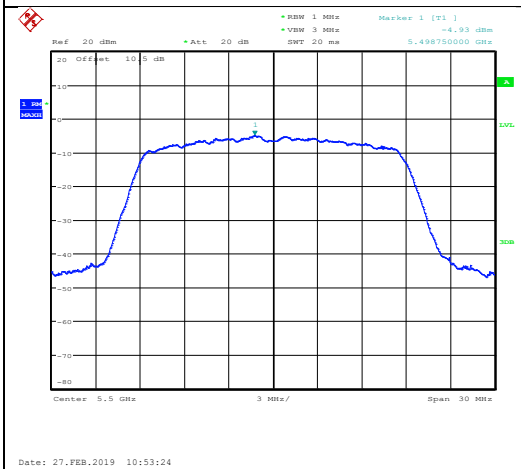
IEEE 802.11ac VHT80 Mode / 5250 ~ 5350MHz

<Chain 0> 5290MHz	<Chain 1> 5290MHz
	
<Chain 2> 5290MHz	**<Chain 3> 5290MHz**
	

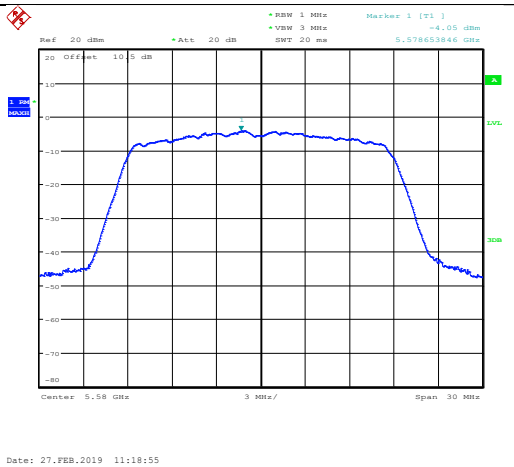
UNII-2C Band III PSD
IEEE 802.11a Mode / 5470 ~ 5725MHz

<Chain 0>

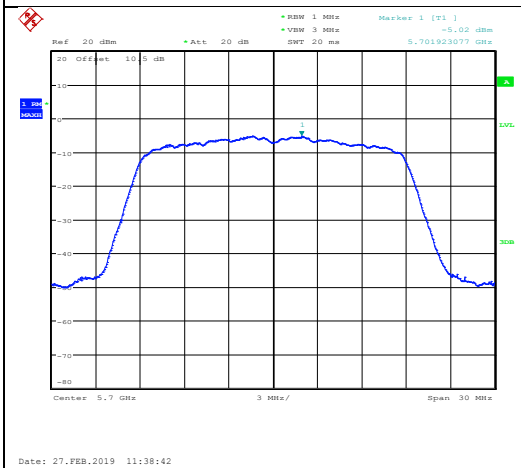
5500MHz



5580MHz

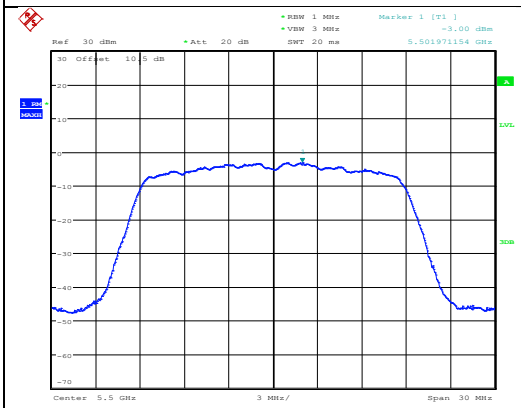


5700MHz



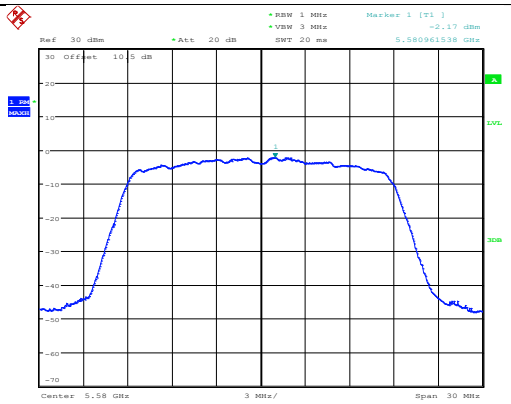
<Chain 1>

5500MHz



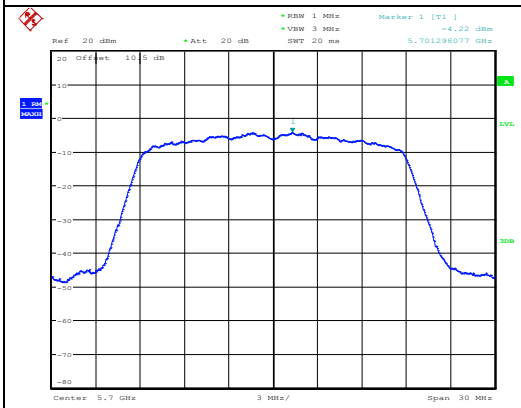
Date: 27.FEB.2019 10:56:04

5580MHz



Date: 27.FEB.2019 11:15:41

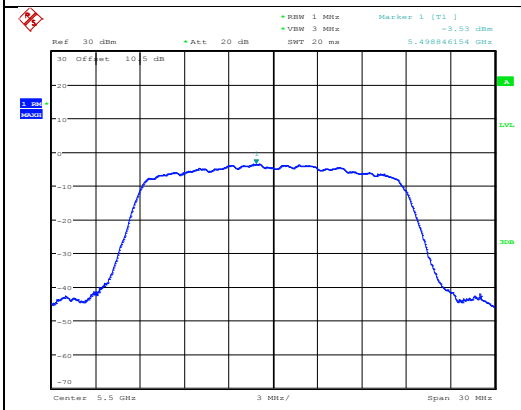
5700MHz



Date: 27.FEB.2019 11:49:01

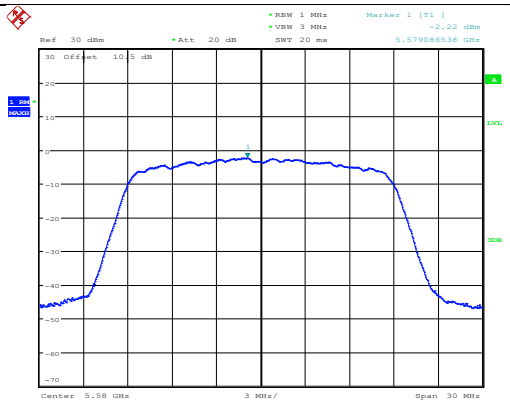
<Chain 2>

5500MHz



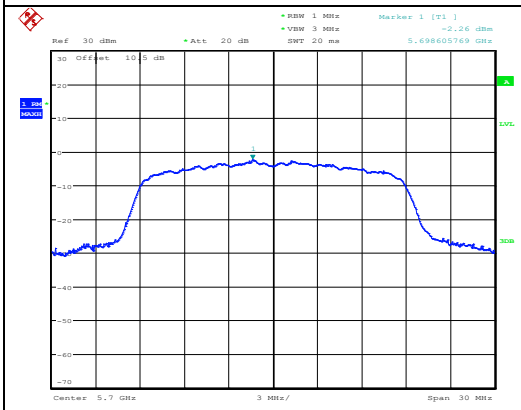
Date: 27.FEB.2019 10:58:06

5580MHz



Date: 27.FEB.2019 11:11:23

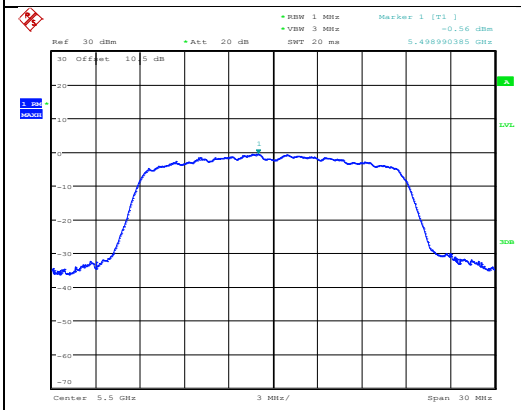
5700MHz



Date: 27.FEB.2019 11:36:25

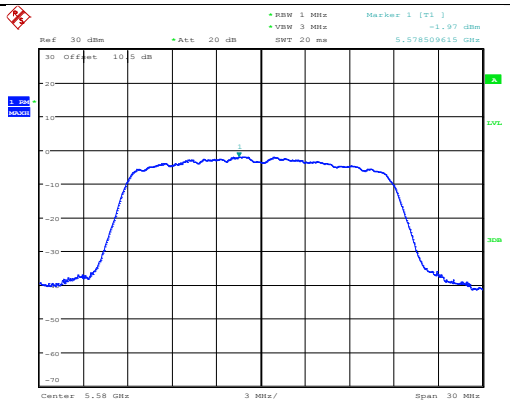
<Chain 3>

5500MHz



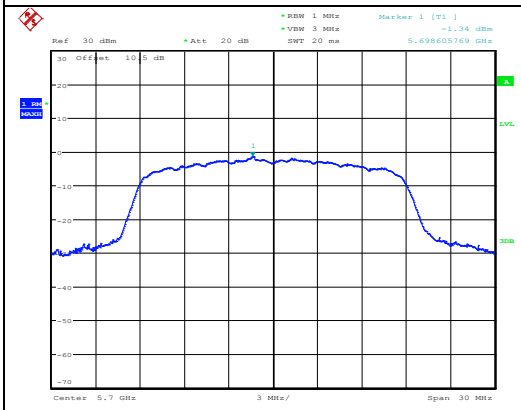
Date: 27.FEB.2019 11:03:57

5580MHz



Date: 27.FEB.2019 11:07:28

5700MHz

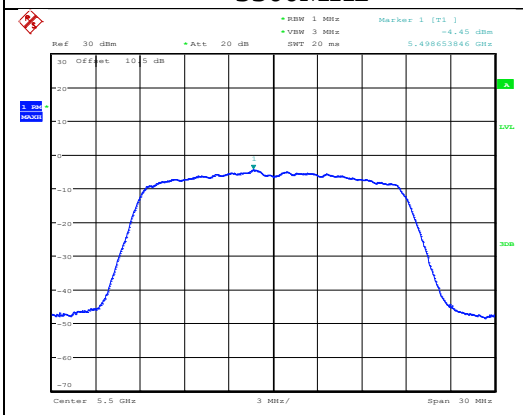


Date: 27.FEB.2019 11:32:52

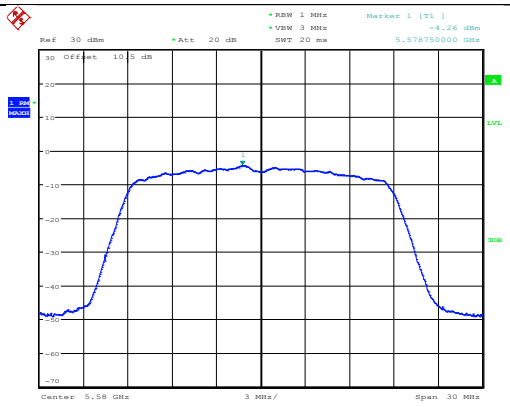
IEEE 802.11ac VHT20 Mode / 5470 ~ 5725MHz

<Chain 0>

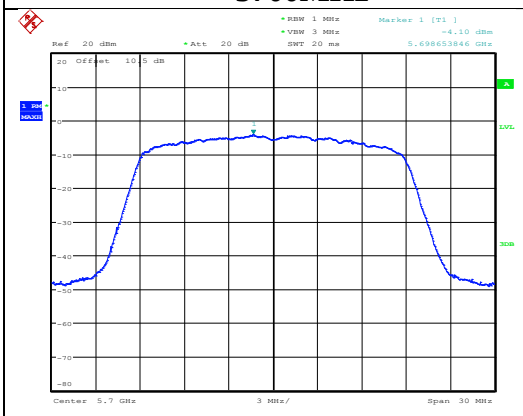
5500MHz



5580MHz

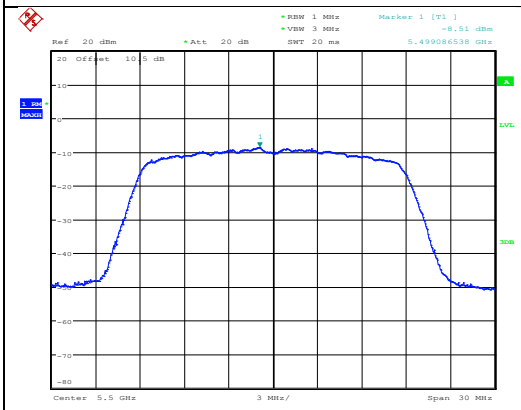


5700MHz



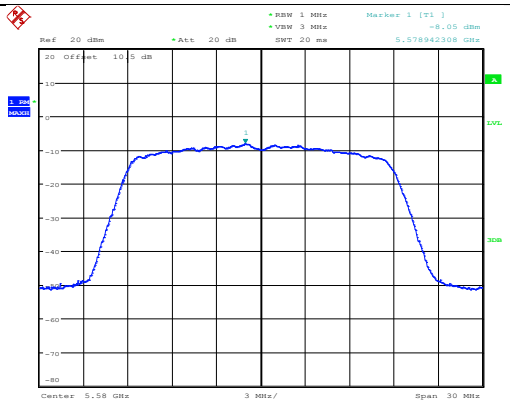
<Chain 1>

5500MHz



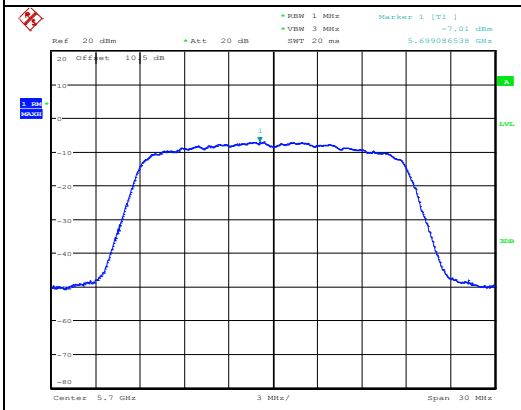
Date: 27.FEB.2019 16:11:13

5580MHz



Date: 27.FEB.2019 16:18:32

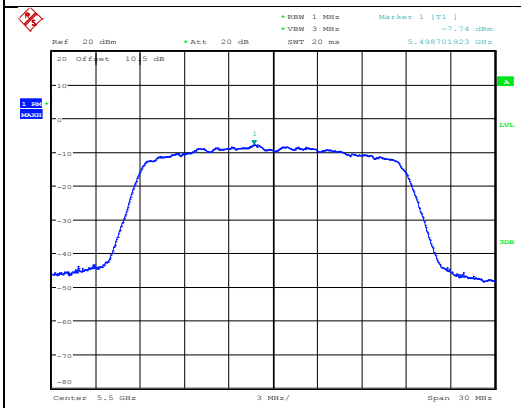
5700MHz



Date: 27.FEB.2019 16:37:14

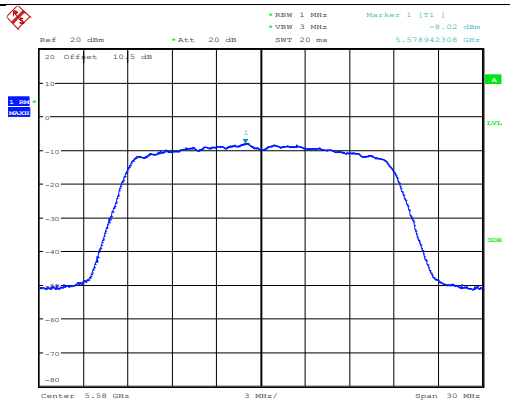
<Chain 2>

5500MHz



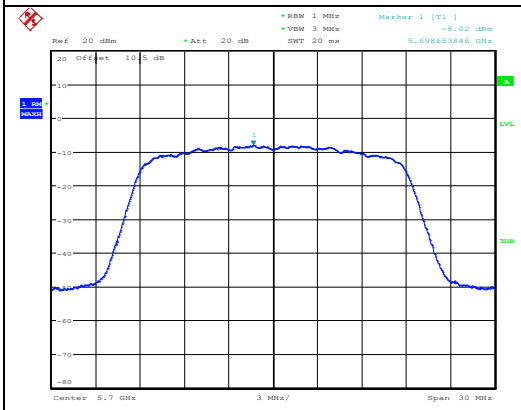
Date: 27.FEB.2019 16:08:34

5580MHz



Date: 27.FEB.2019 16:22:02

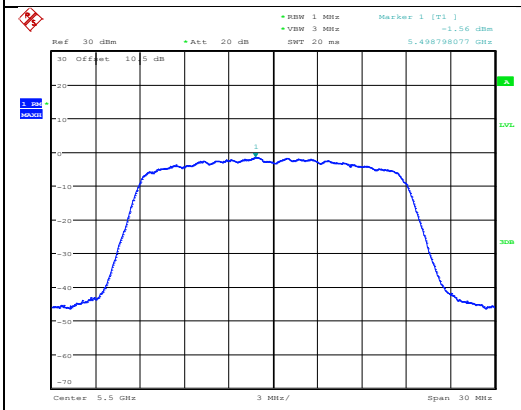
5700MHz



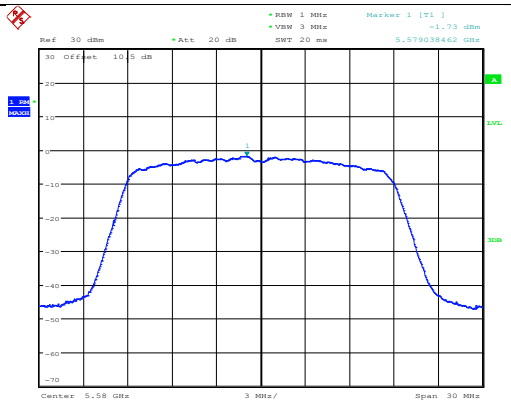
Date: 27.FEB.2019 16:31:08

<Chain 3>

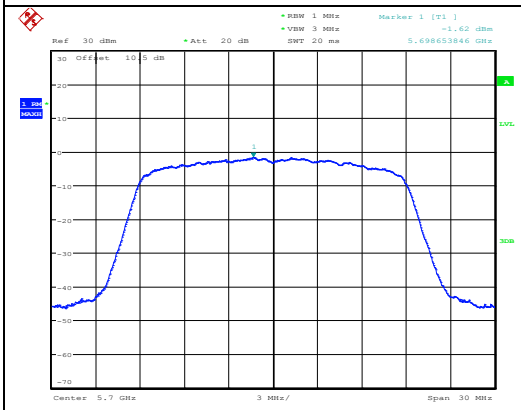
5500MHz



5580MHz



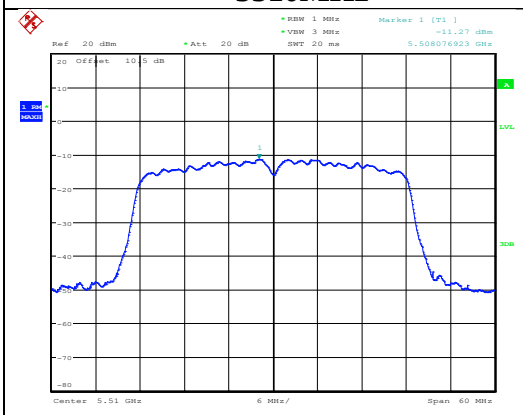
5700MHz



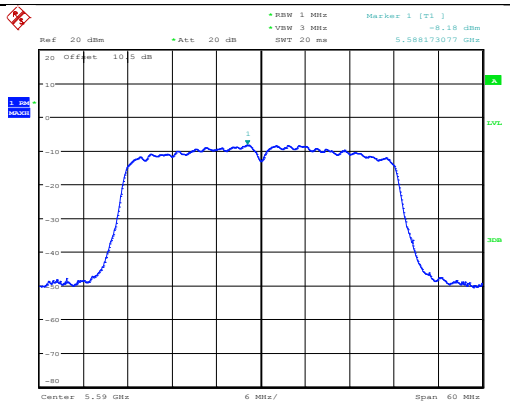
IEEE 802.11ac VHT40 Mode / 5470 ~ 5725MHz

<Chain 0>

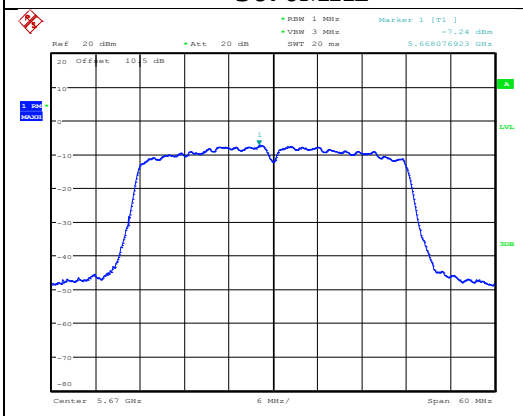
5510MHz



5590MHz

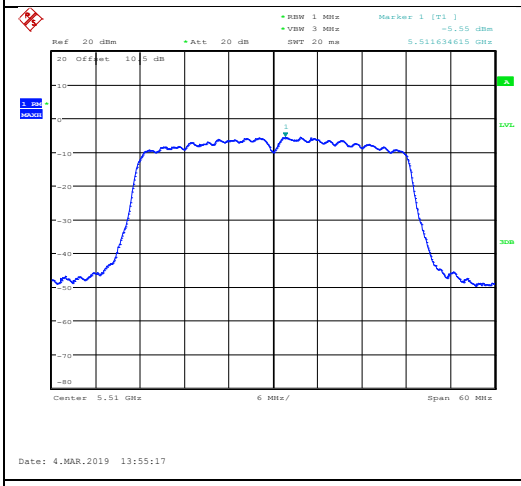


5670MHz



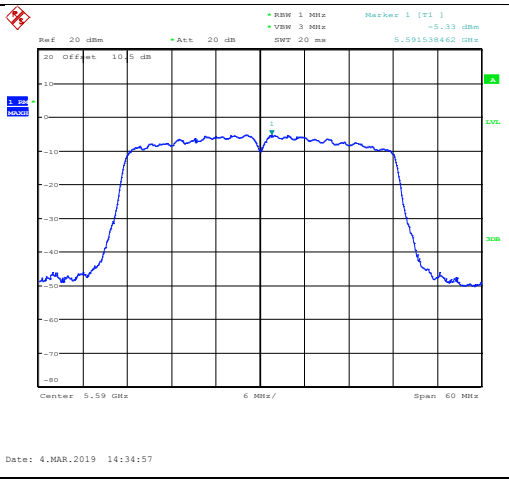
<Chain 1>

5510MHz



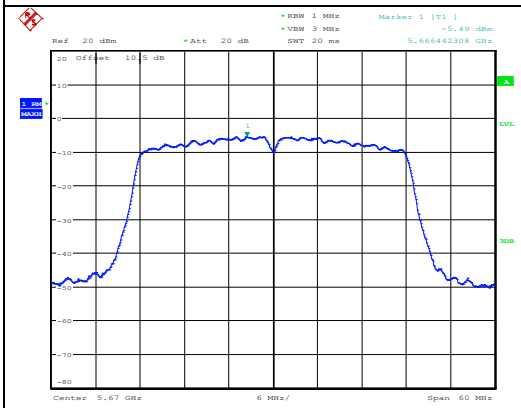
Date: 4.MAR.2019 13:55:17

5590MHz



Date: 4.MAR.2019 14:34:57

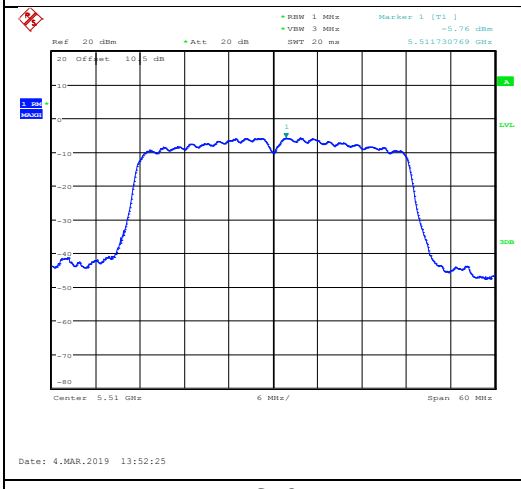
5670MHz



Date: 4.MAR.2019 14:53:14

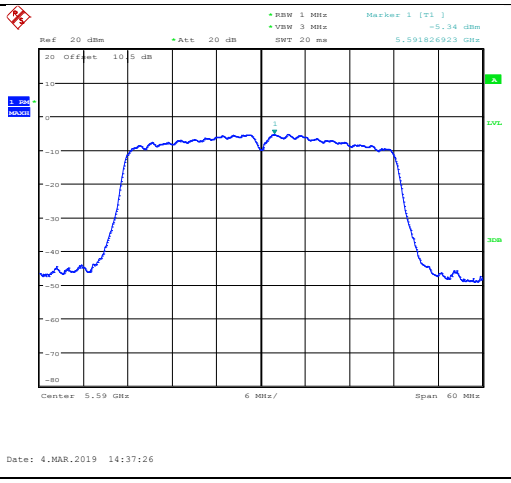
<Chain 2>

5510MHz



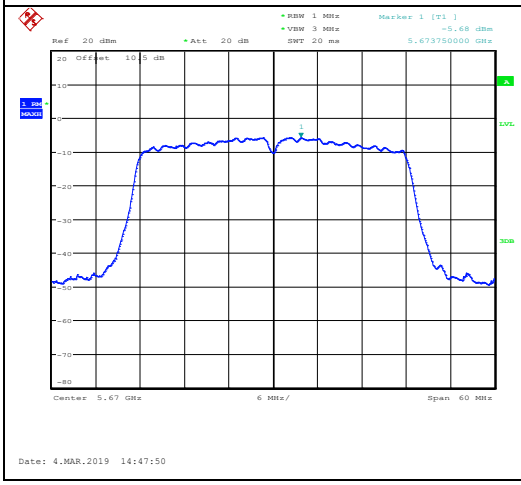
Date: 4.MAR.2019 13:52:25

5590MHz



Date: 4.MAR.2019 14:37:26

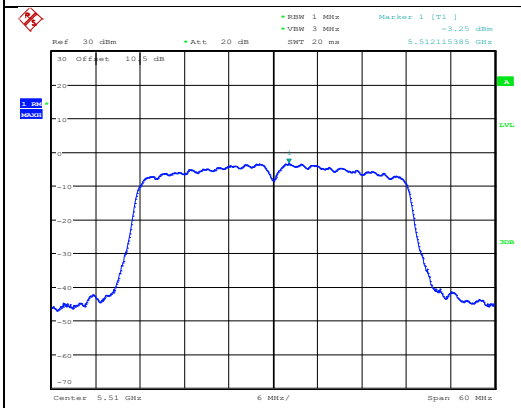
5670MHz



Date: 4.MAR.2019 14:47:50

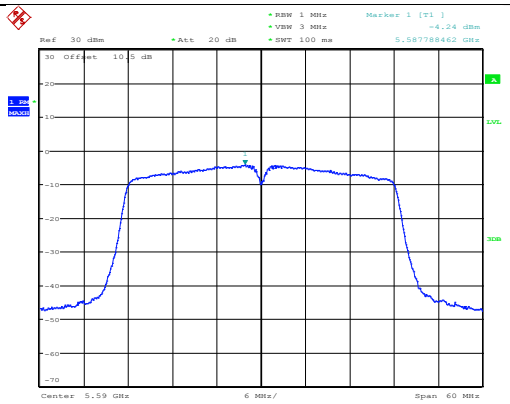
<Chain 3>

5510MHz



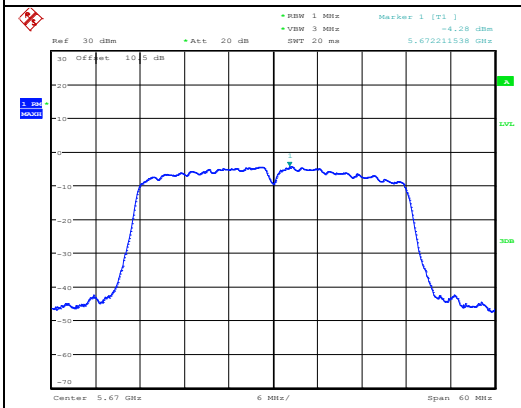
Date: 4.MAR.2019 13:43:10

5590MHz



Date: 4.MAR.2019 14:42:12

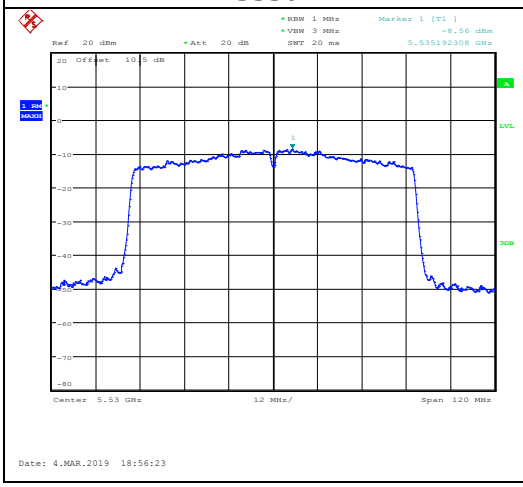
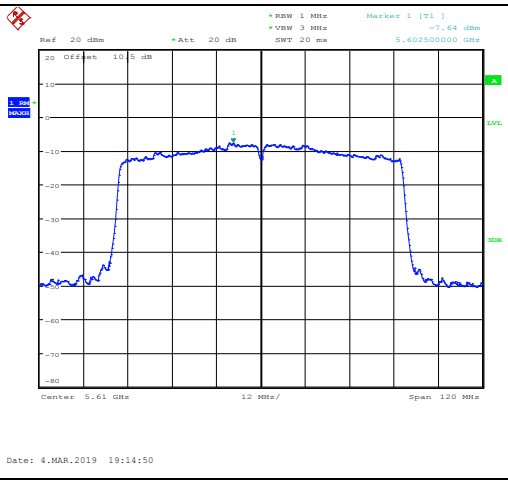
5670MHz



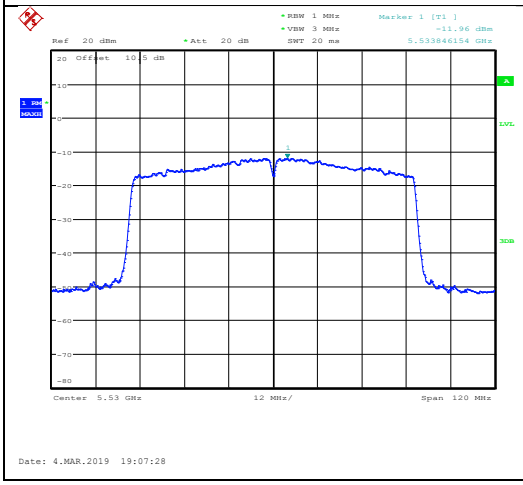
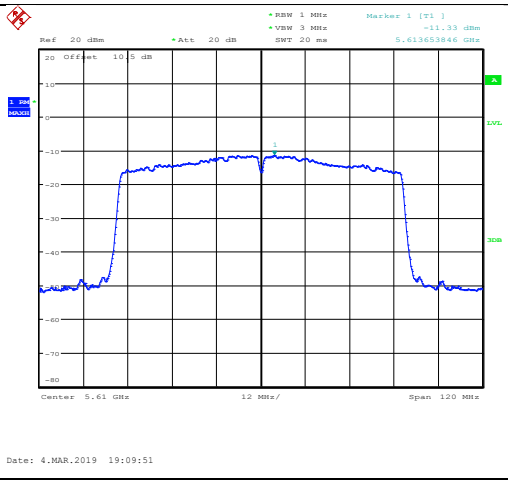
Date: 4.MAR.2019 14:44:32

IEEE 802.11ac VHT80 Mode / 5470 ~ 5725MHz

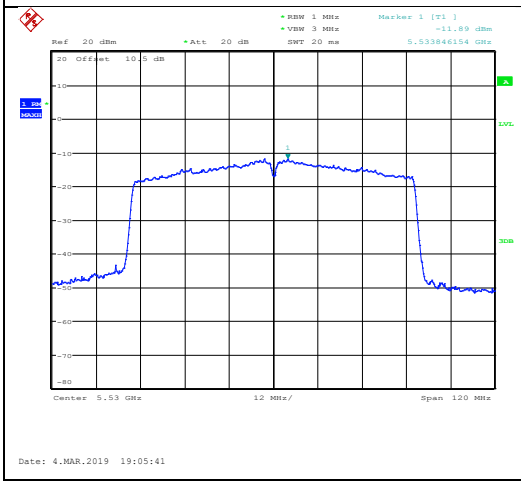
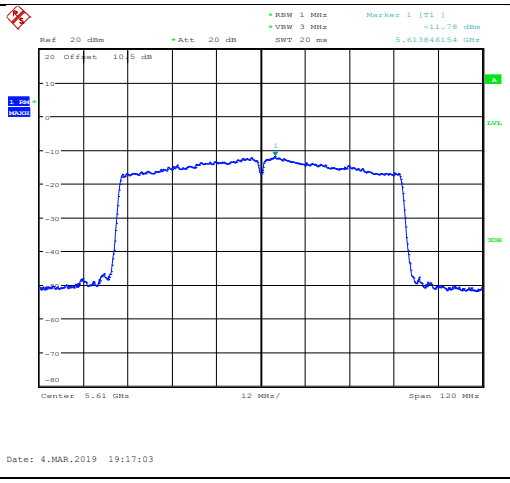
<Chain 0>

5530MHz	5610MHz
	

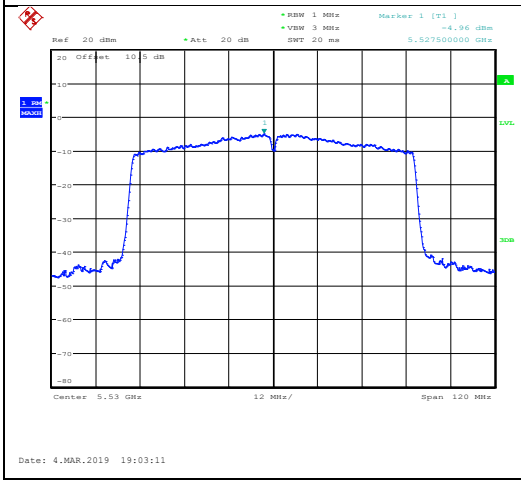
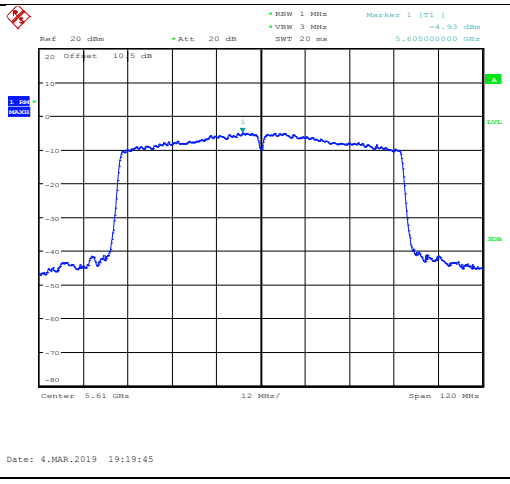
<Chain 1>

5530MHz	5610MHz
	

<Chain 2>

5530MHz	5610MHz
	

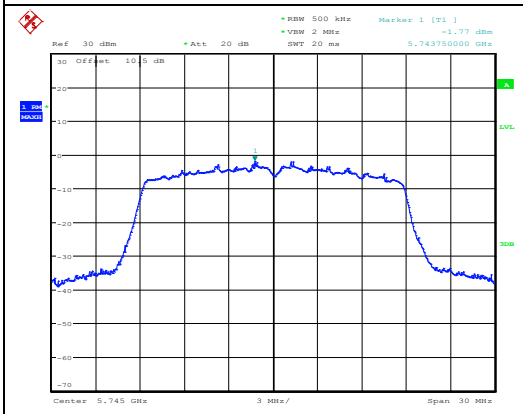
<Chain 3>

5530MHz	5610MHz
	

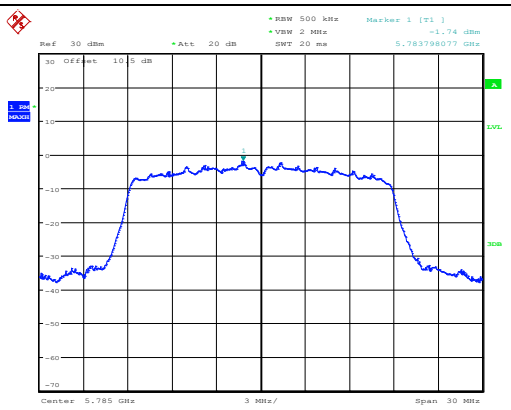
UNII-3 Band IV PSD
IEEE 802.11a mode / 5725 ~ 5850MHz

<Chain 0>

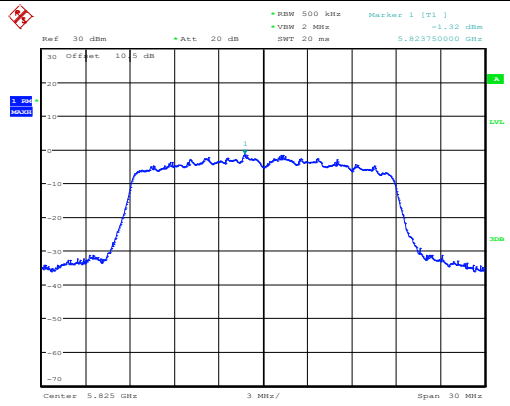
5745MHz



5785MHz

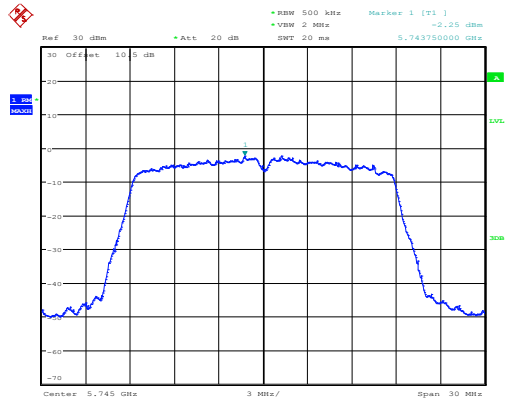


5825MHz

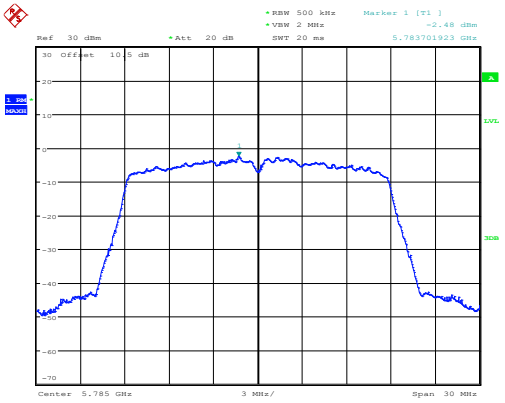


<Chain 1>

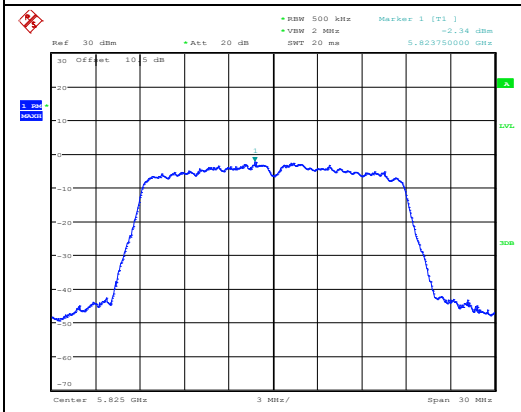
5745MHz



5785MHz

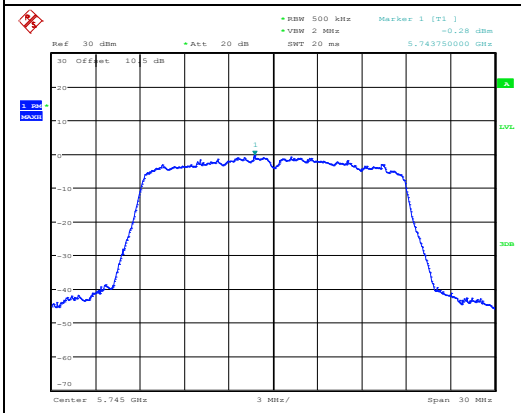


5825MHz



<Chain 2>

5745MHz



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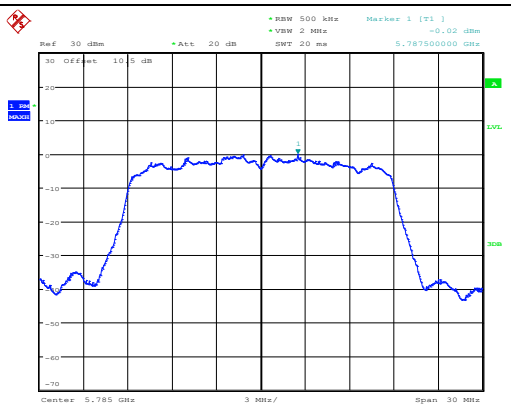

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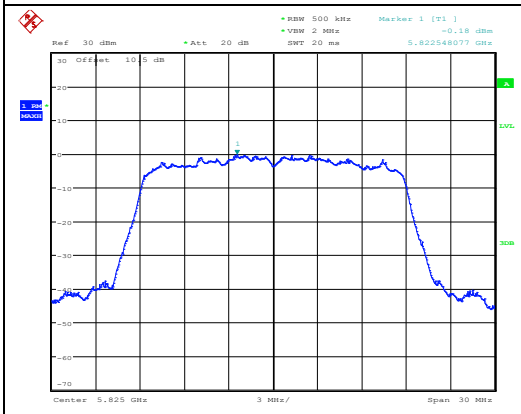
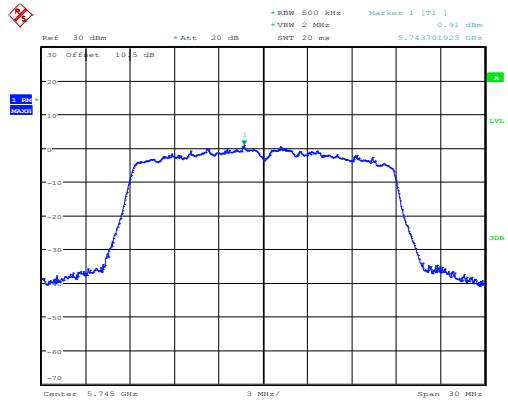


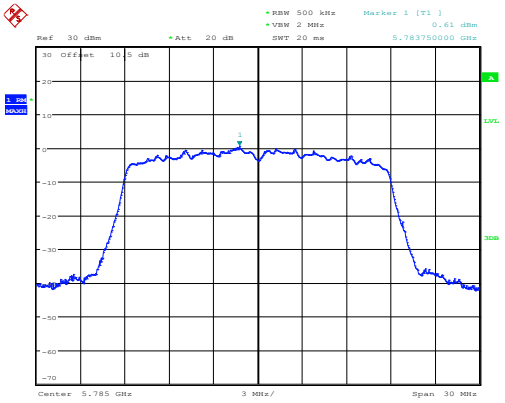
<Chain 3>

5745MHz



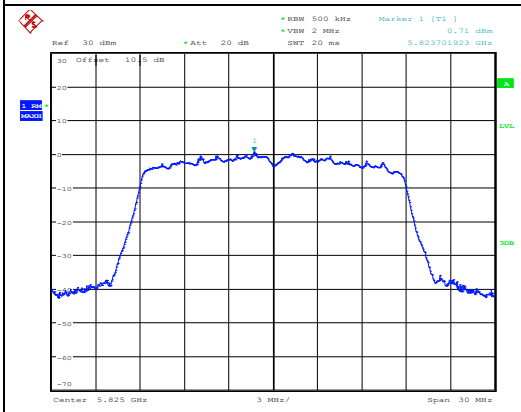
Date: 21.FEB.2019 16:34:35

5785MHz



Date: 21.FEB.2019 16:52:09

5825MHz

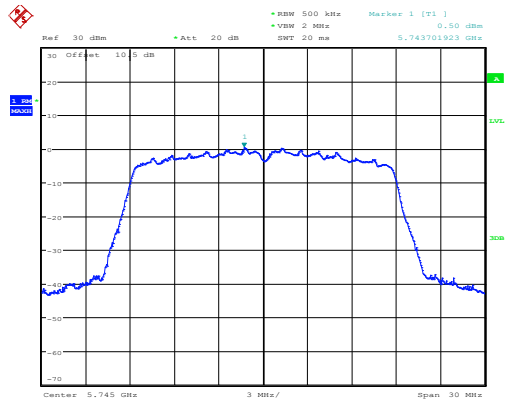


Date: 21.FEB.2019 17:08:01

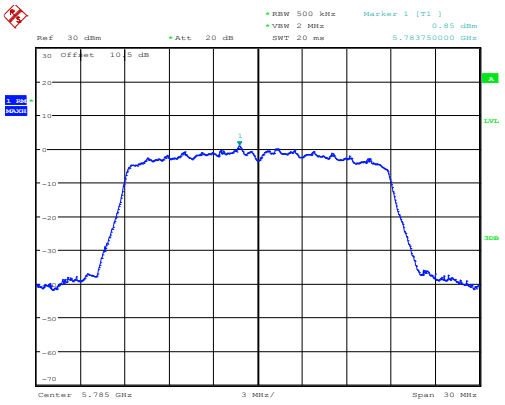
IEEE 802.11ac VHT20 Mode / 5725 ~ 5850MHz

<Chain 0>

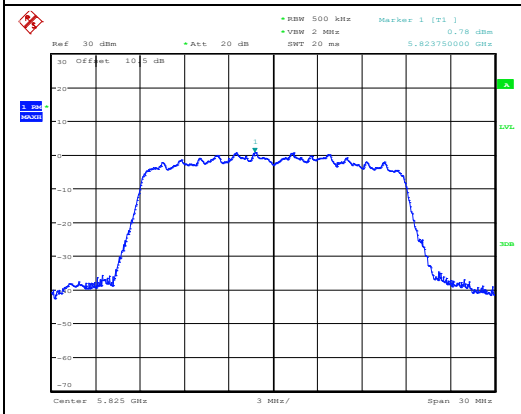
5745MHz



5785MHz



5825MHz



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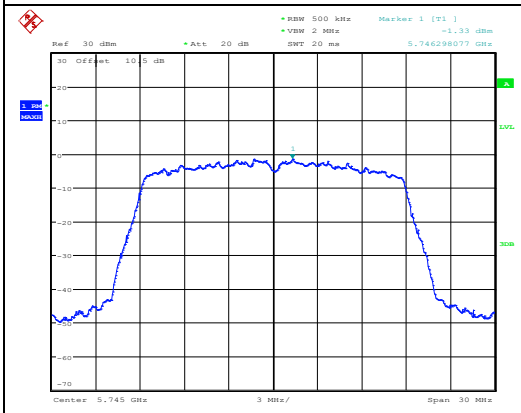
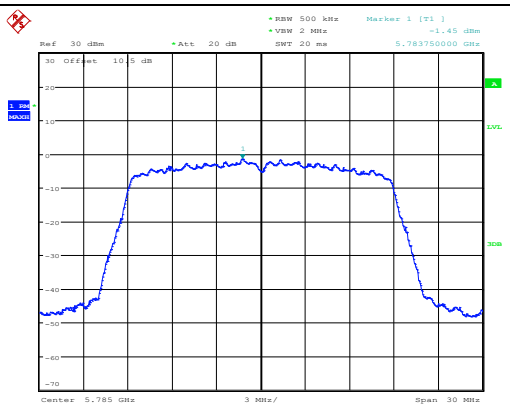
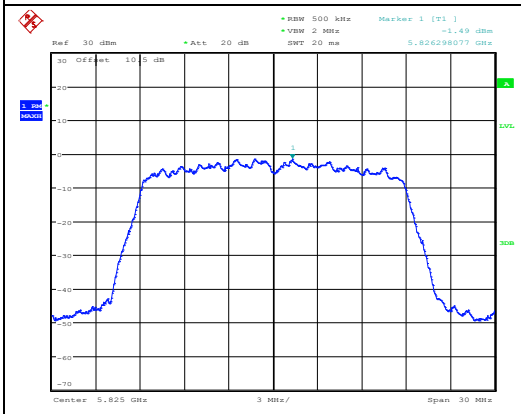
5745MHz



5785MHz

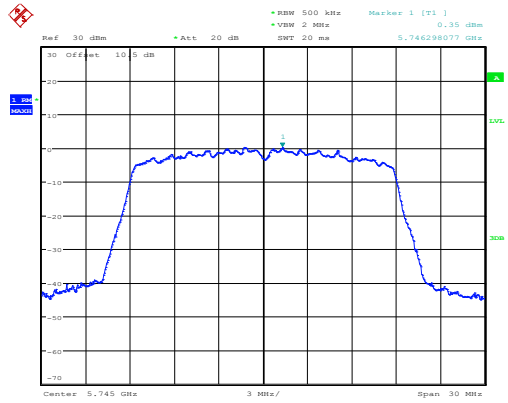


5825MHz

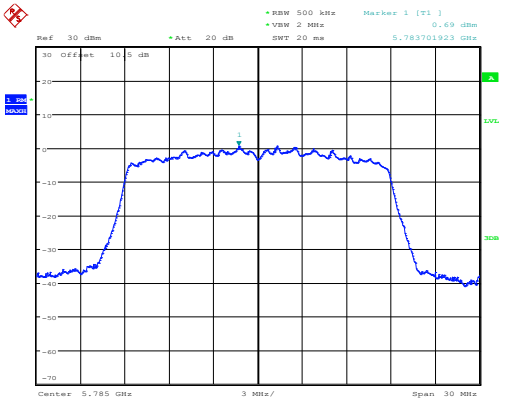


<Chain 2>

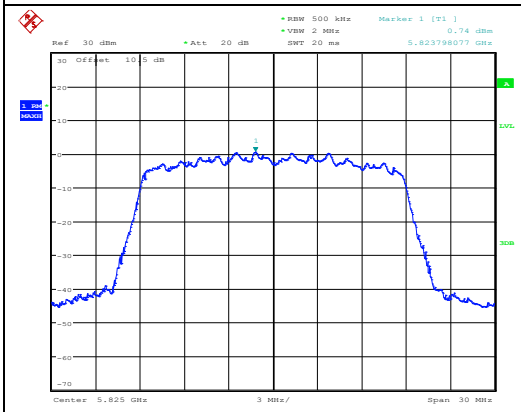
5745MHz



5785MHz

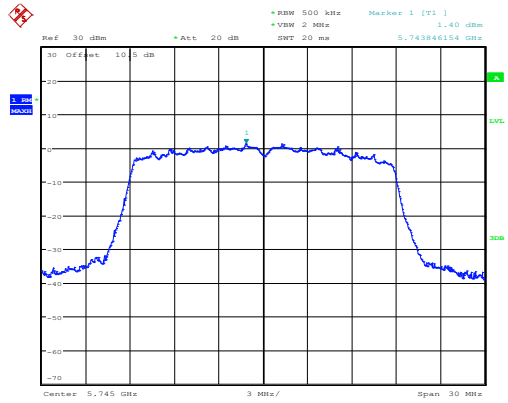


5825MHz

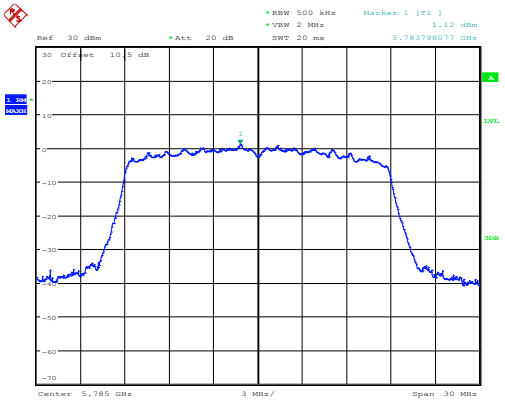


<Chain 3>

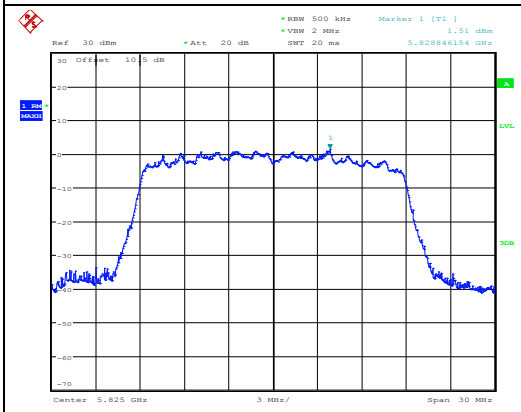
5745MHz



5785MHz



5825MHz



IEEE 802.11ac VHT40 Mode / 5725 ~ 5850MHz

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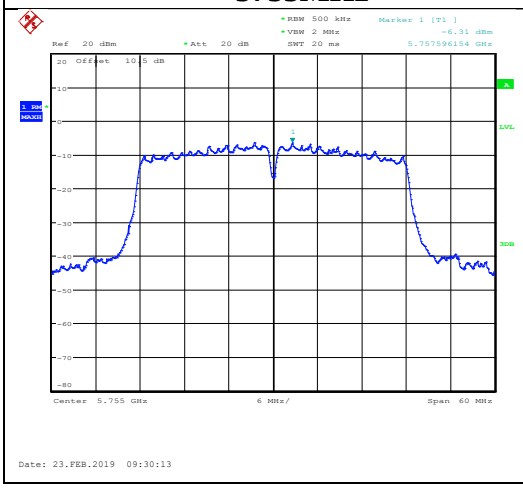
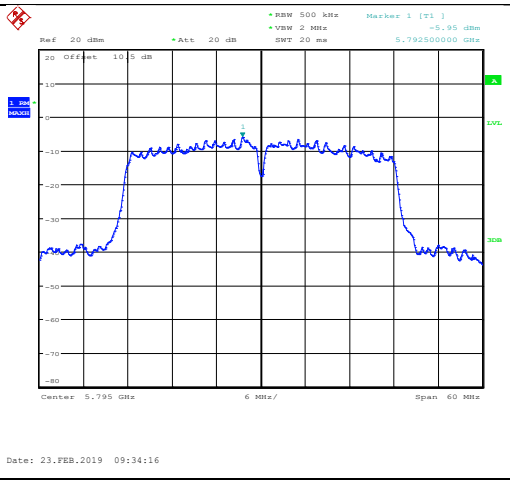
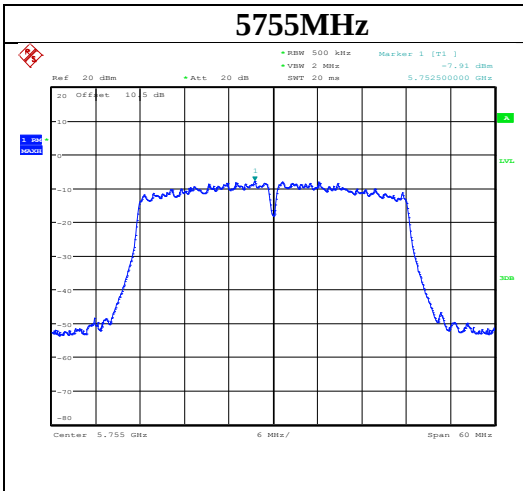
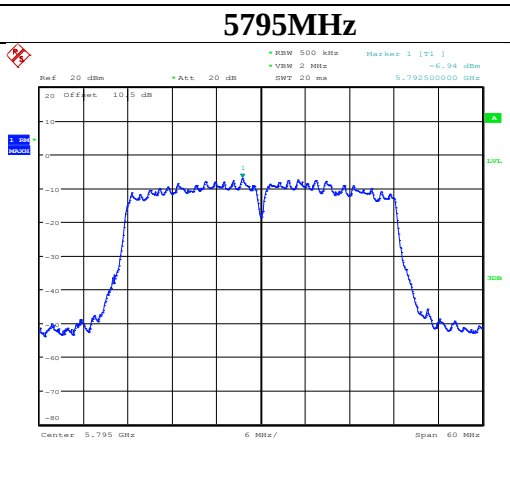
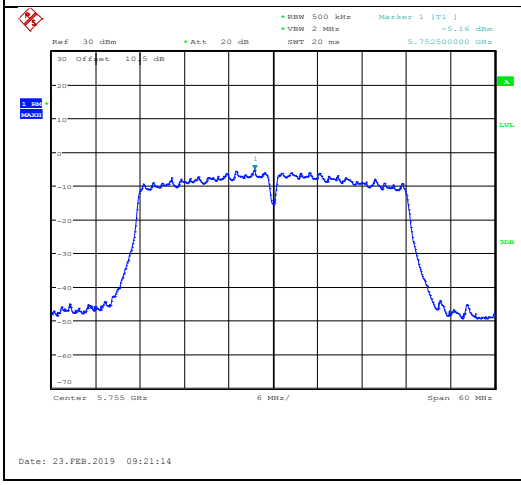
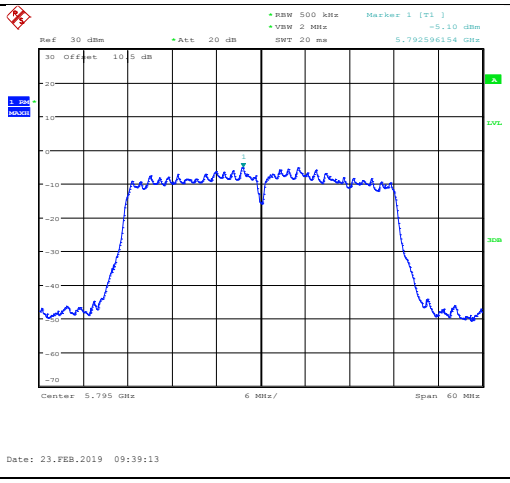
	

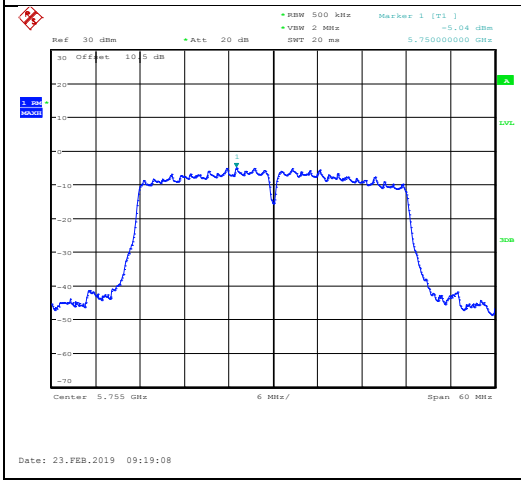
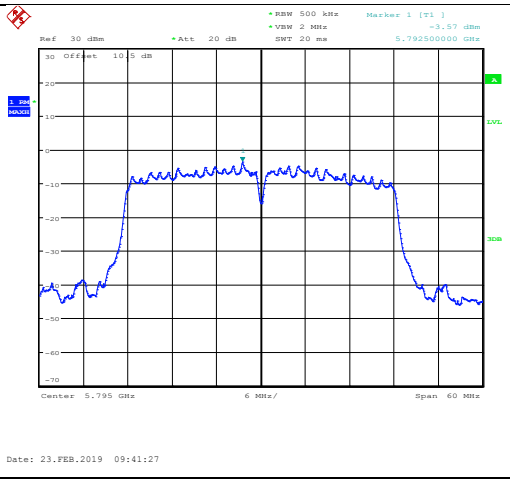
<Chain 1>

5755MHz	5795MHz
	

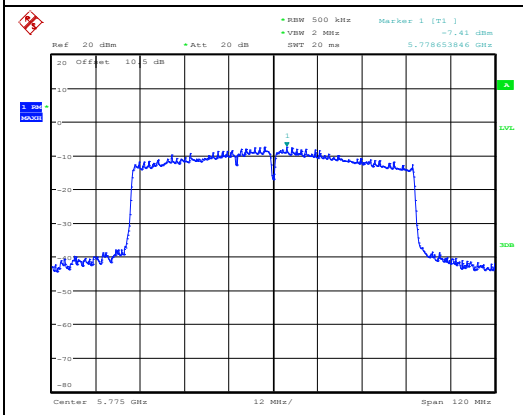
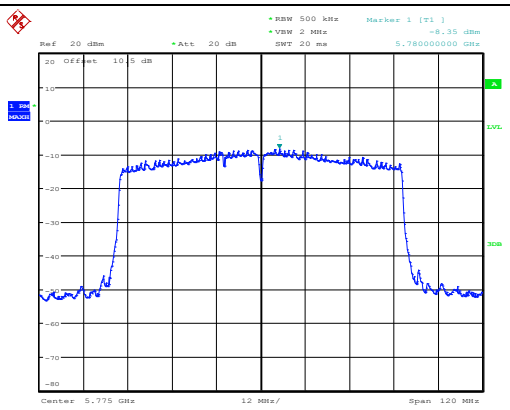
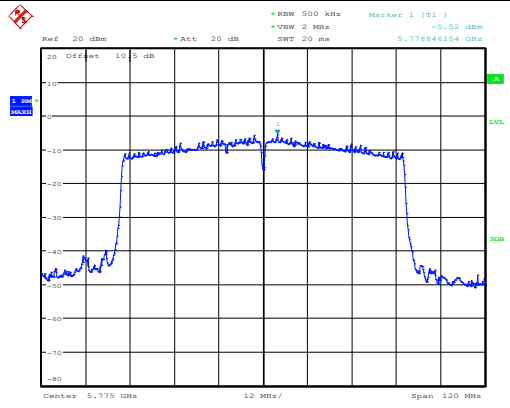
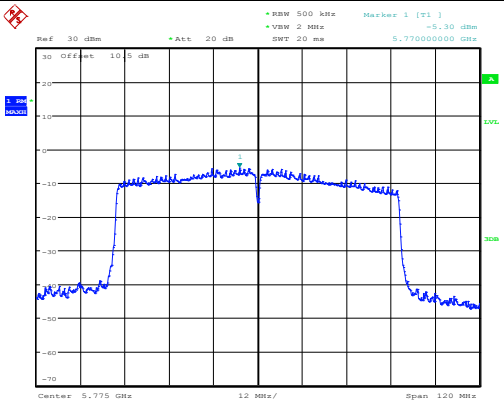
<Chain 2>

5755MHz	5795MHz
	

<Chain 3>

5755MHz	5795MHz
	

IEEE 802.11ac VHT80 Mode / 5725 ~ 5850MHz

<Chain 0> 5775MHz	<Chain 1> 5775MHz
	
<Chain 2> 5775MHz	<Chain 3> 5775MHz
	

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