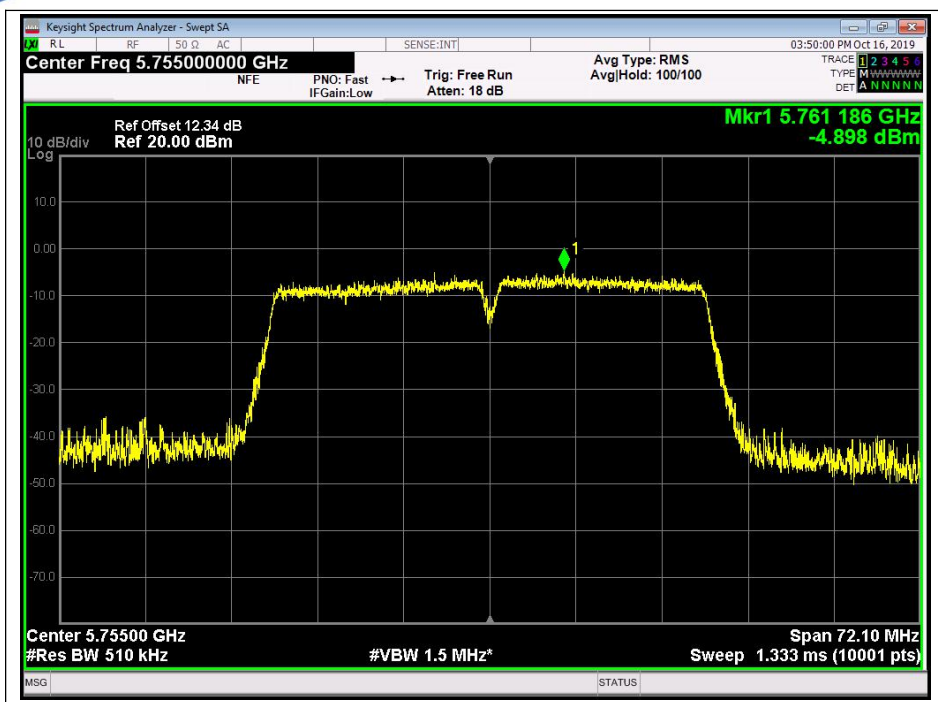
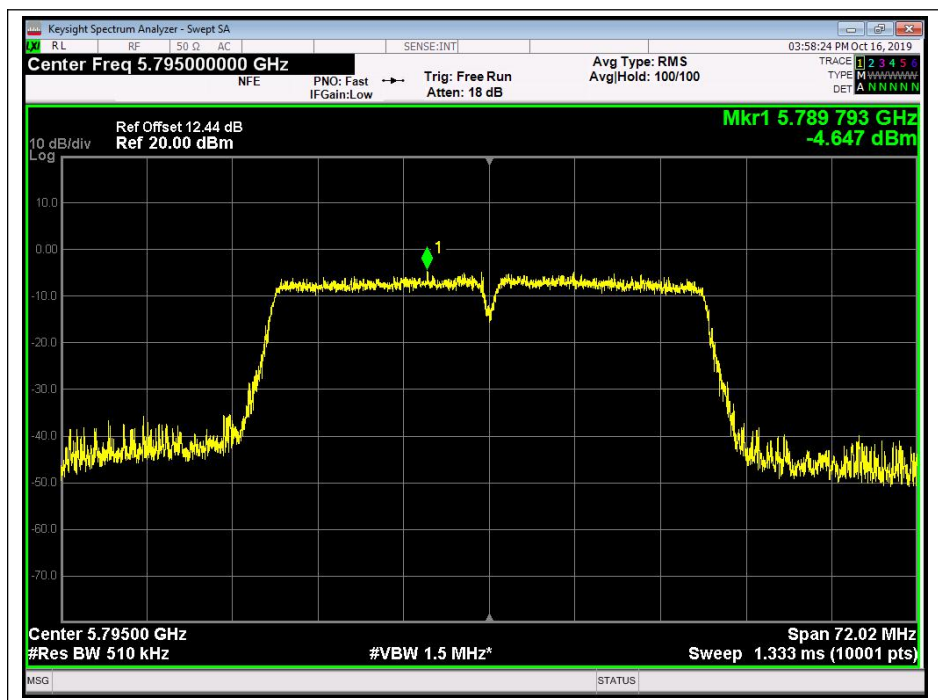




(Channel 151, 5755 MHz, 802.11ac (HT40))



(Channel 159, 5795MHz, 802.11ac (HT40))

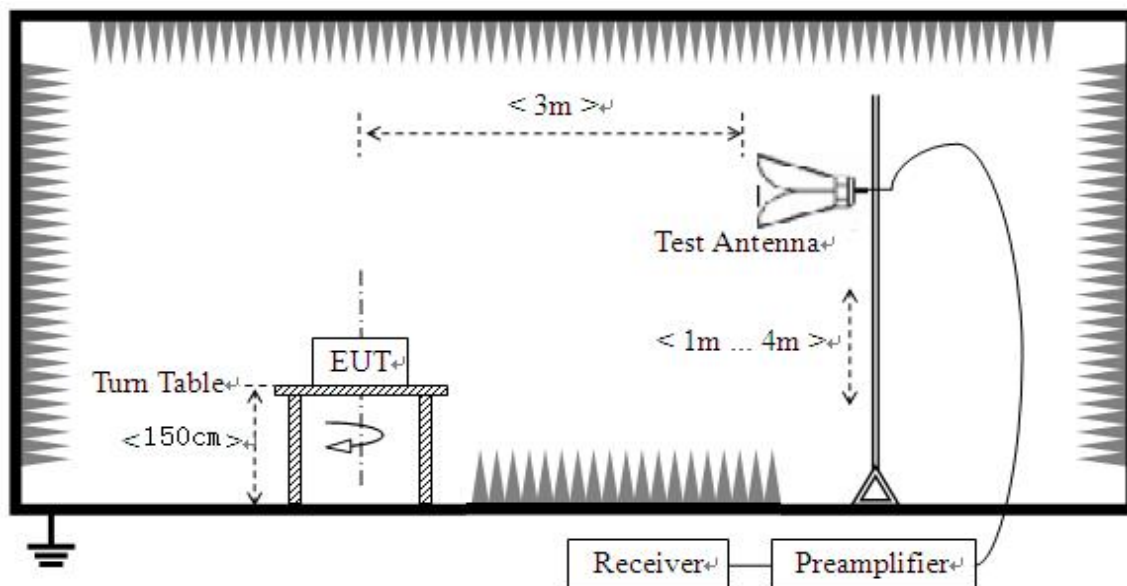
2.5. Restricted Frequency Bands

2.5.1. Requirement

According to FCC section 15.407(b)(7), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

2.5.2. Test Description

A. Test Setup



The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

KDB 789033 Section H) 3)5)6(d)) was used in order to prove compliance

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted

on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasipeak detection (QP) at frequency below 1GHz.

2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.

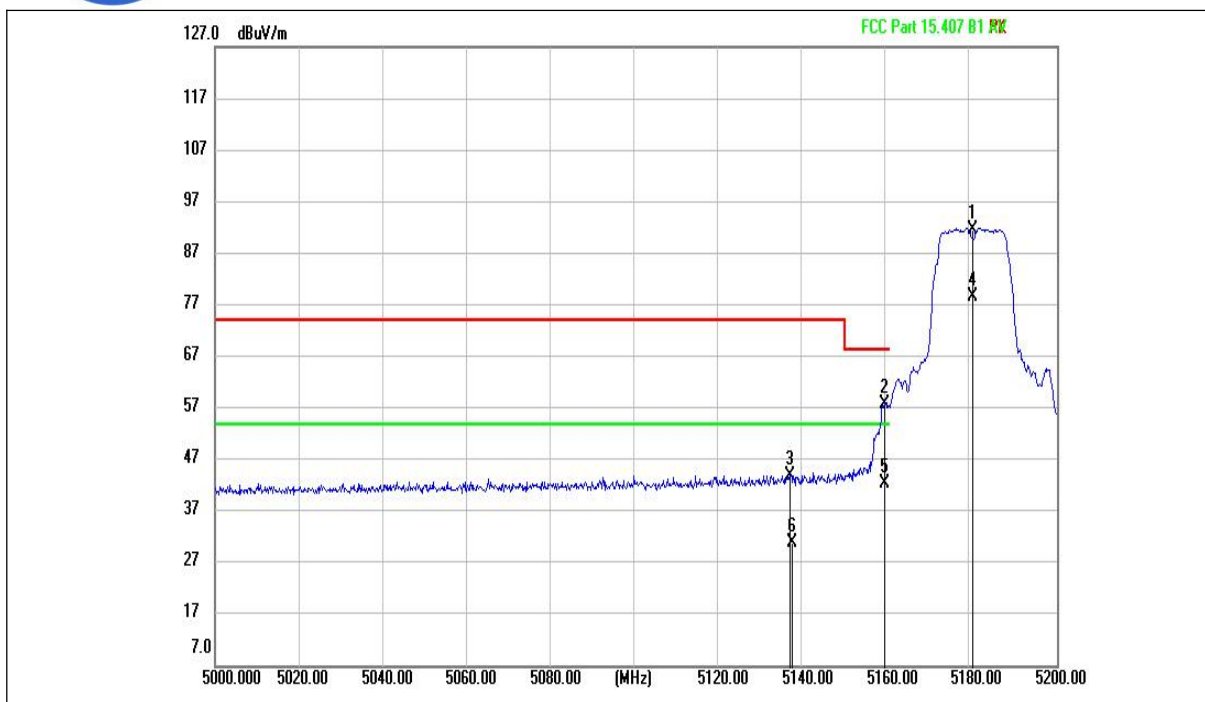
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

4. All modes of operation were investigated and the worst-case emissions are reported.

2.5.3. Test Result

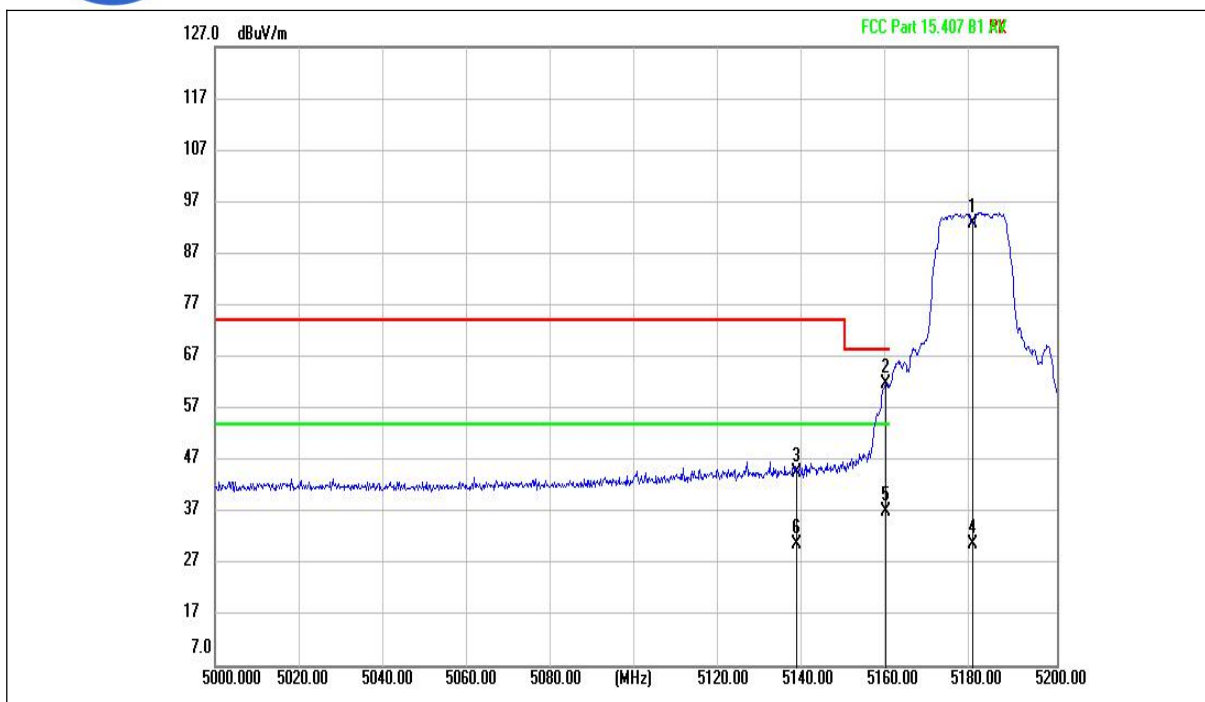
802.11a Test mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Pol	Verdict
		PK/AV						
36	5159	PK	60.95	-3.14	57.81	68.30	H	PASS
36	5159	AV	45.48	-3.14	42.34	54.00	H	PASS
36	5159.4	PK	64.93	-3.13	61.80	68.30	V	PASS
36	5159.4	AV	40.07	-3.13	36.94	54.00	V	PASS
64	5350.6	PK	53.11	-2.55	50.56	74.00	H	PASS
64	5350.6	AV	35.28	-2.55	32.73	54.00	H	PASS
64	5350.3	PK	58.07	-2.56	55.51	74.00	V	PASS
64	5350.3	AV	42.12	-2.56	39.56	54.00	V	PASS



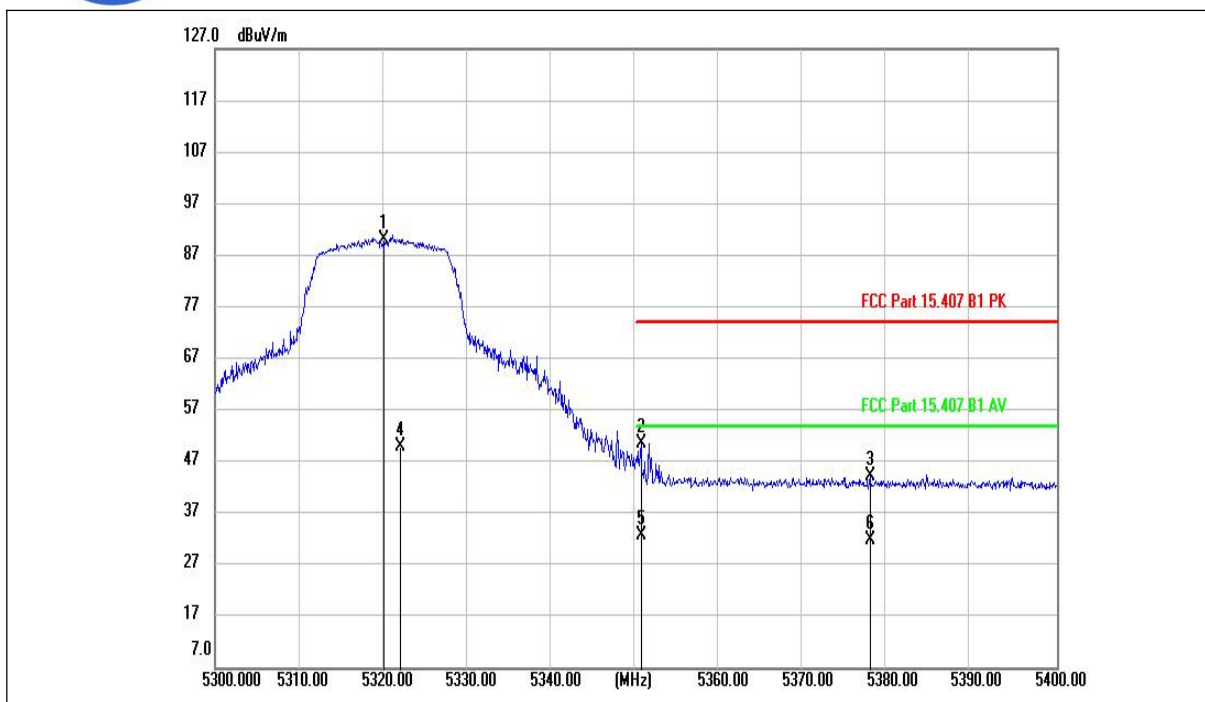
(802.11a _5180MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5180.000	91.65	---	---	---	H	-3.04
5159.000	57.81	---	68.30	10.49	H	-3.14
5136.600	43.90	---	74.00	30.10	H	-3.17
5180.000	---	78.57	---	---	H	-3.04
5159.000	---	42.34	54.00	11.66	H	-3.14
5136.992	---	30.94	54.00	23.06	H	-3.17



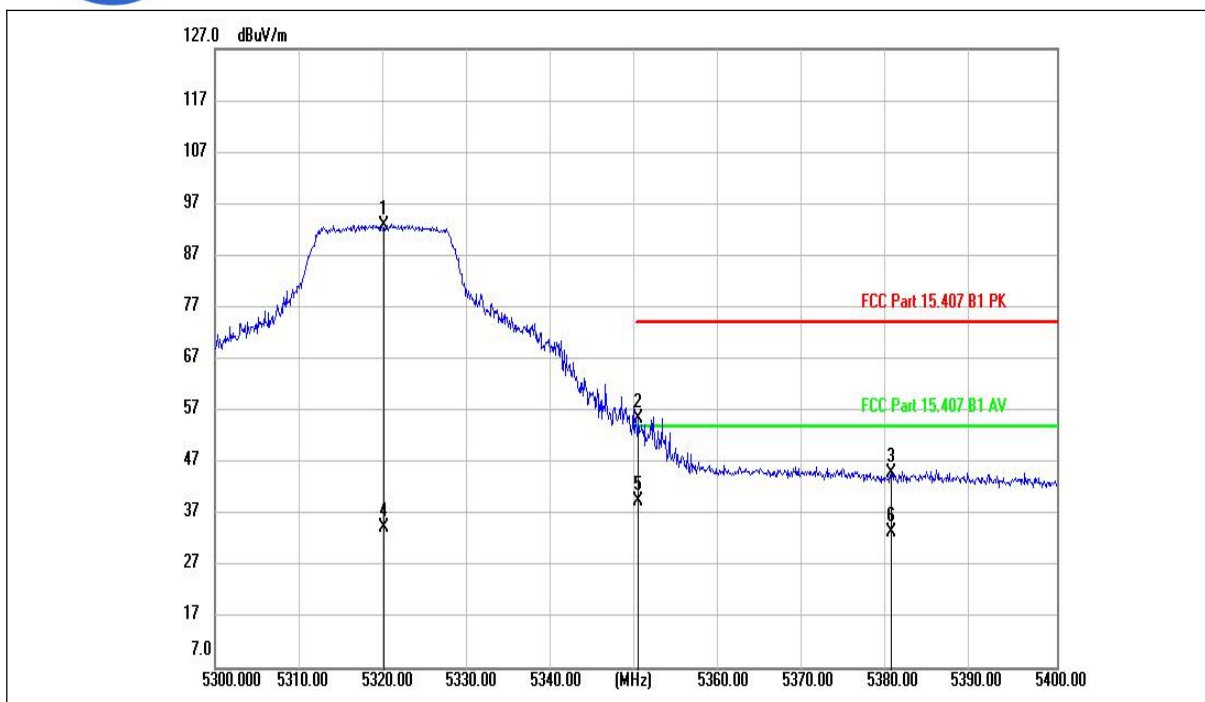
(802.11a_5180MHz, Antenna Vertical)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5180.000	92.64	---	---	---	V	-3.04
5159.400	61.80	---	68.3	6.50	V	-3.13
5138.200	44.53	---	74.00	29.47	V	-3.18
5180.000	---	30.68	---	---	V	-3.04
5159.400	---	36.94	54.00	-17.06	V	-3.13
5138.200	---	30.53	54.00	23.47	V	-3.18



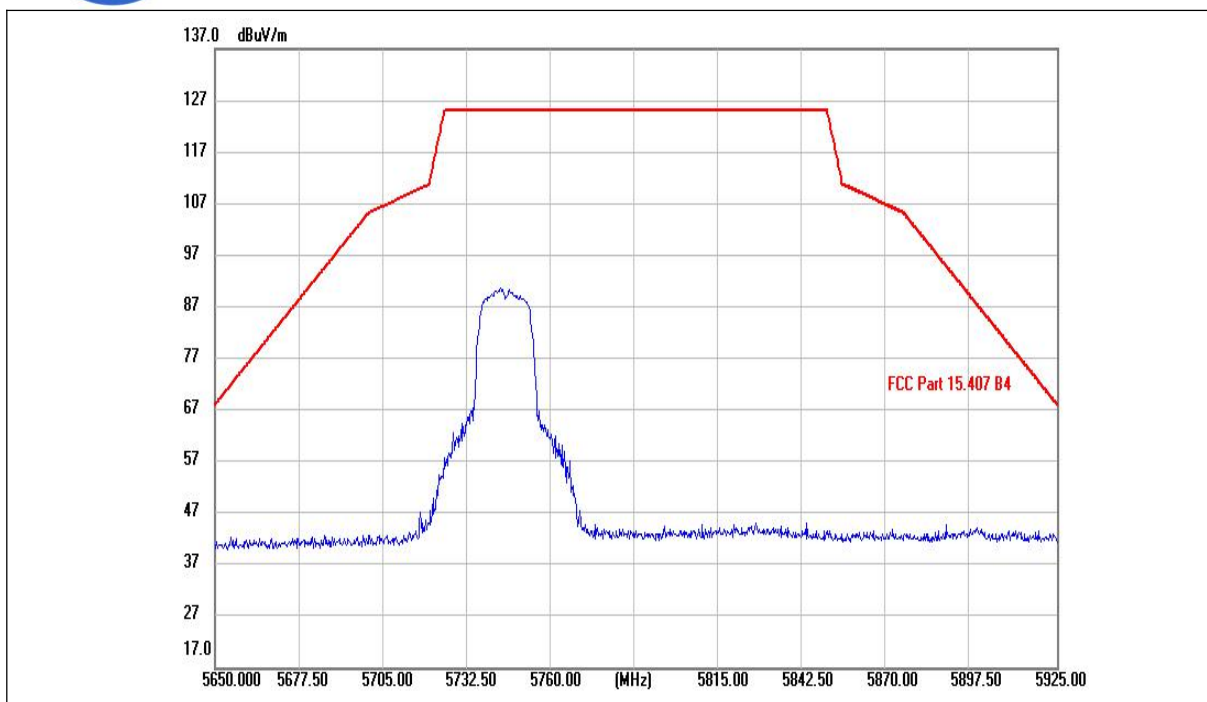
(802.11a _5320MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5320.000	89.96	---	---	---	H	-2.83
5350.600	50.56	---	74.00	23.44	H	-2.55
5377.800	44.21	---	74.00	29.79	H	-2.26
5322.000	---	49.83	---	---	H	-2.82
5350.600	---	32.73	54.00	21.27	H	-2.55
5377.800	---	32.02	54.00	21.98	H	-2.26

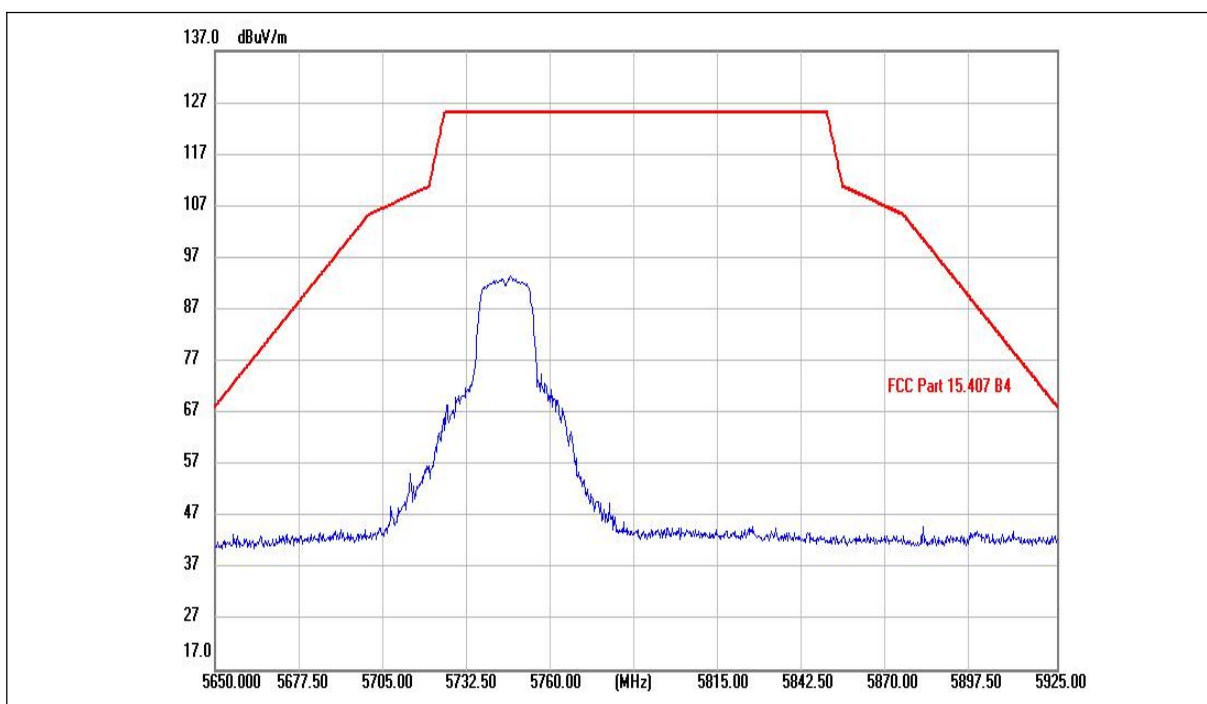


(802.11a_5320MHz, Antenna Vertical)

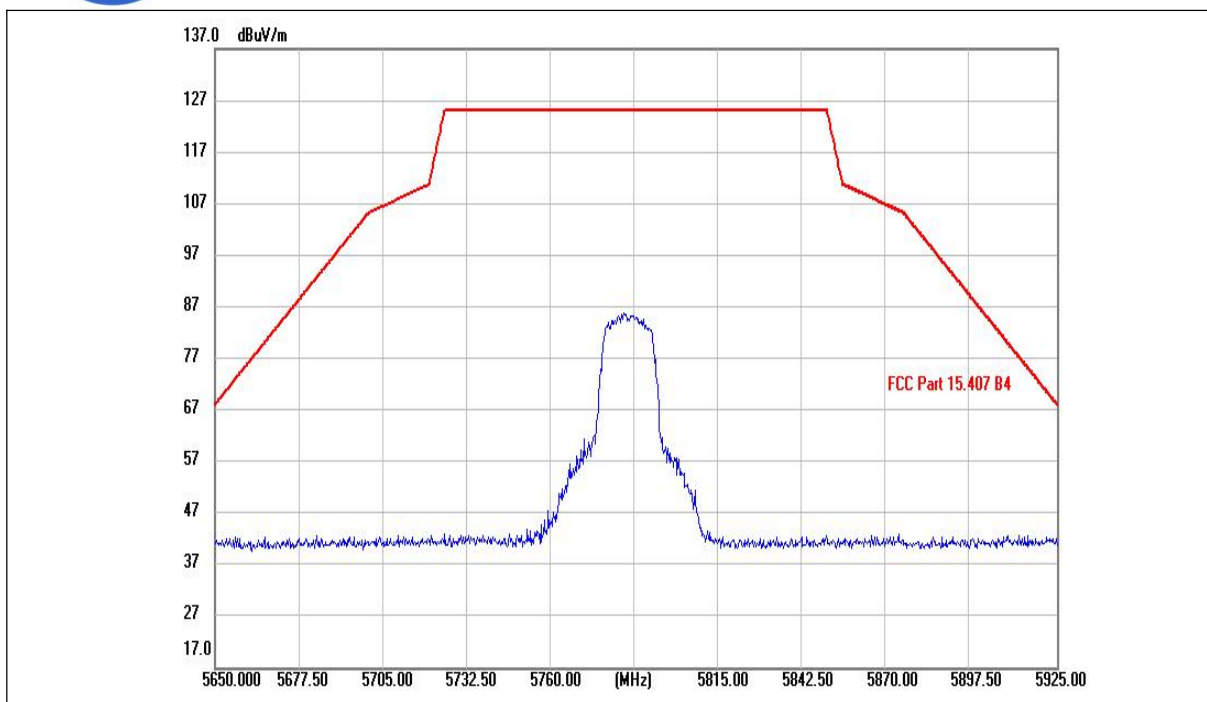
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5320.000	92.64	---	---	---	V	-2.83
5350.300	55.51	---	74.00	18.49	V	-2.56
5380.300	44.89	---	74.00	29.11	V	-2.29
5320.000	---	34.30	---	---	V	-2.83
5350.300	---	39.56	54.00	14.44	V	-2.56
5380.300	---	33.52	54.00	20.48	V	-2.29



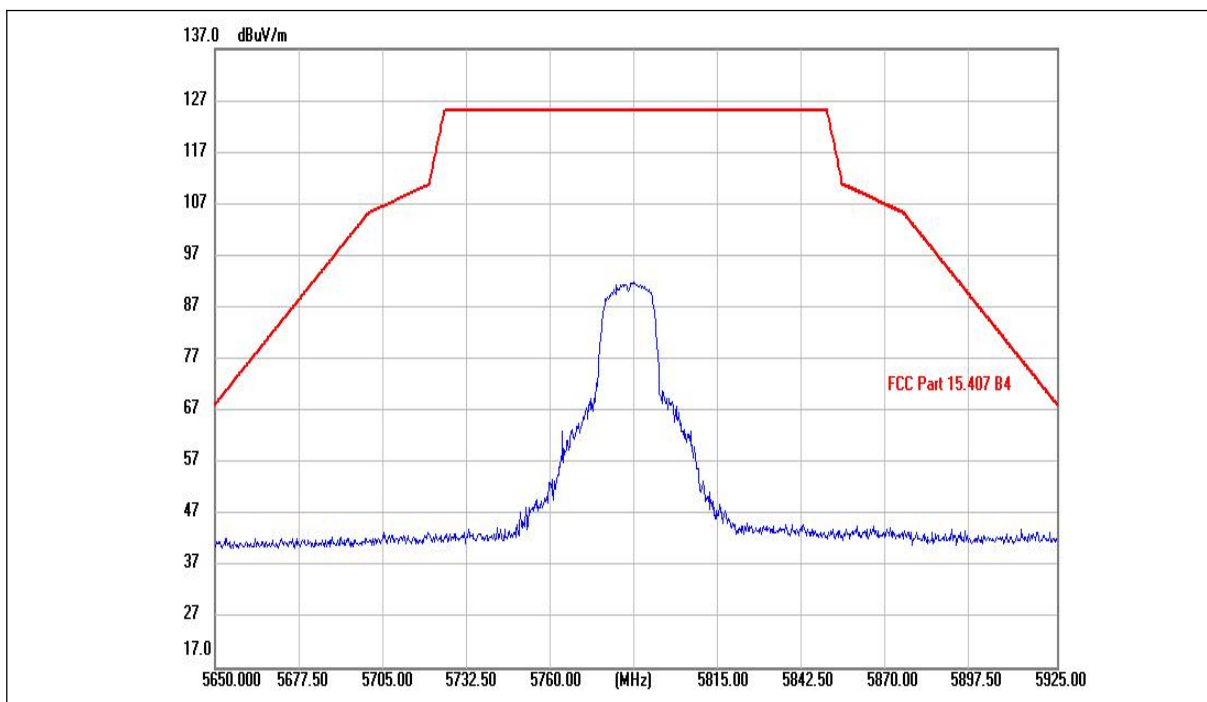
(802.11a _5745MHz, Antenna Horizontal)



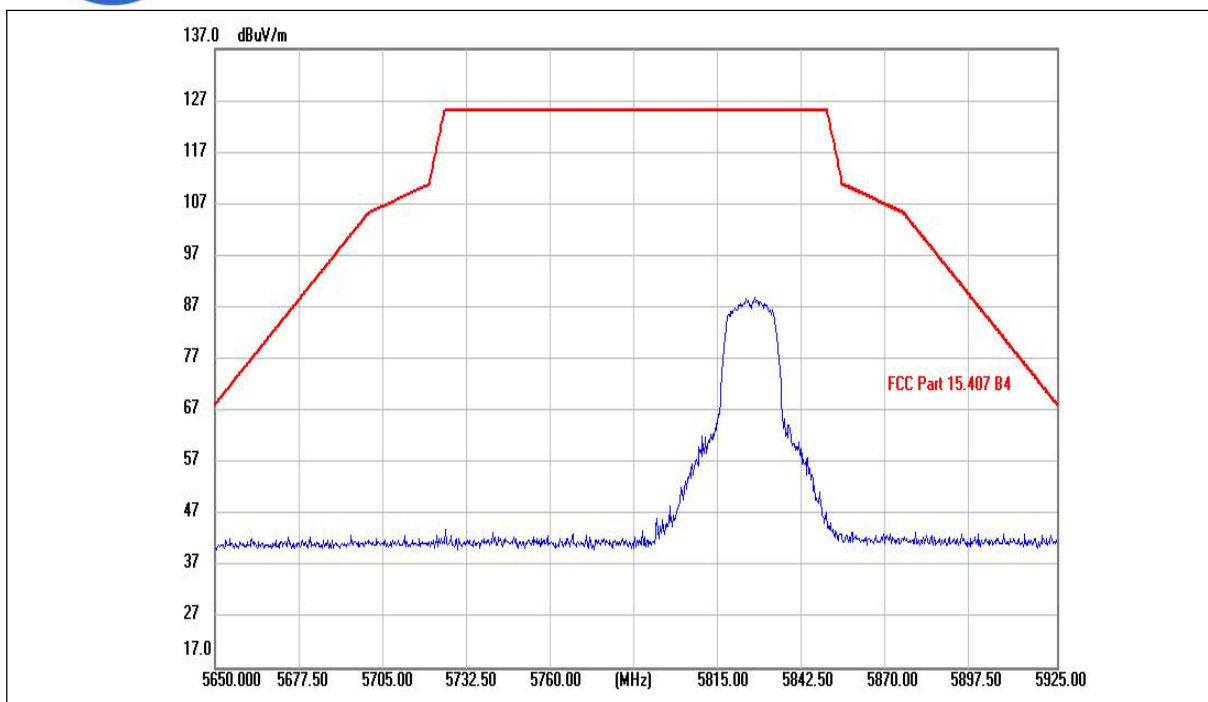
(802.11a _5745MHz, Antenna Vertical)



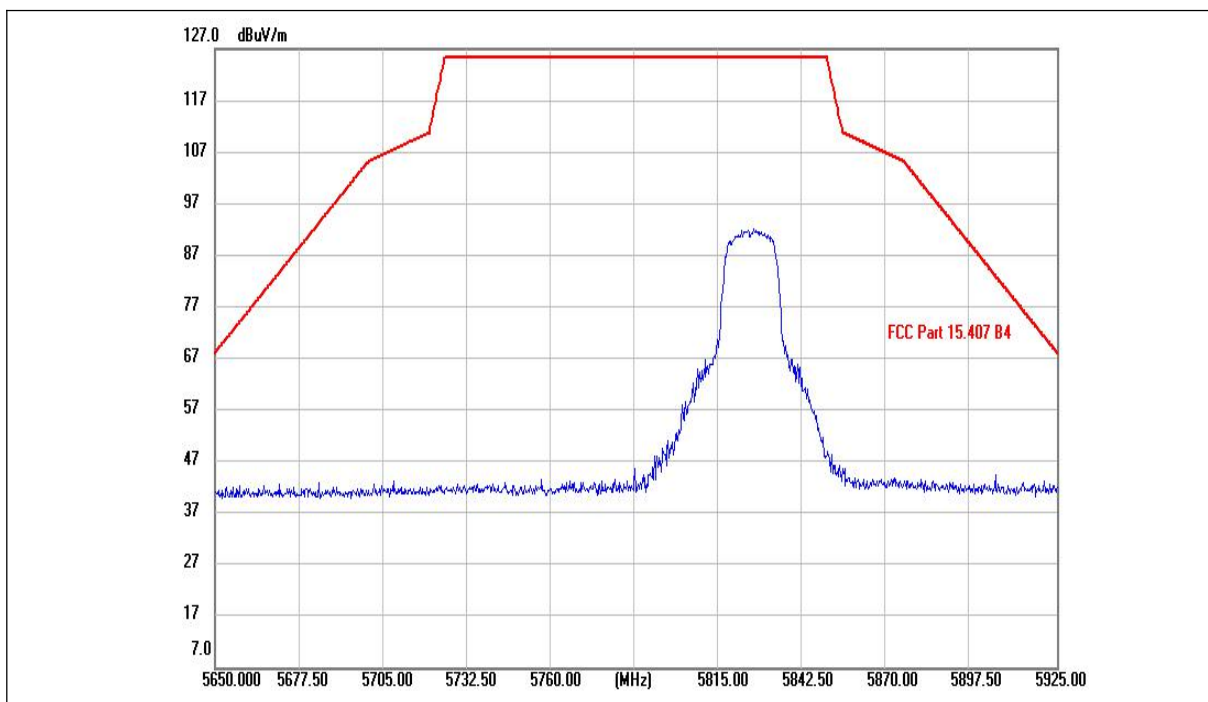
(802.11a _5785MHz, Antenna Horizontal)



(802.11a _5785MHz, Antenna Vertical)



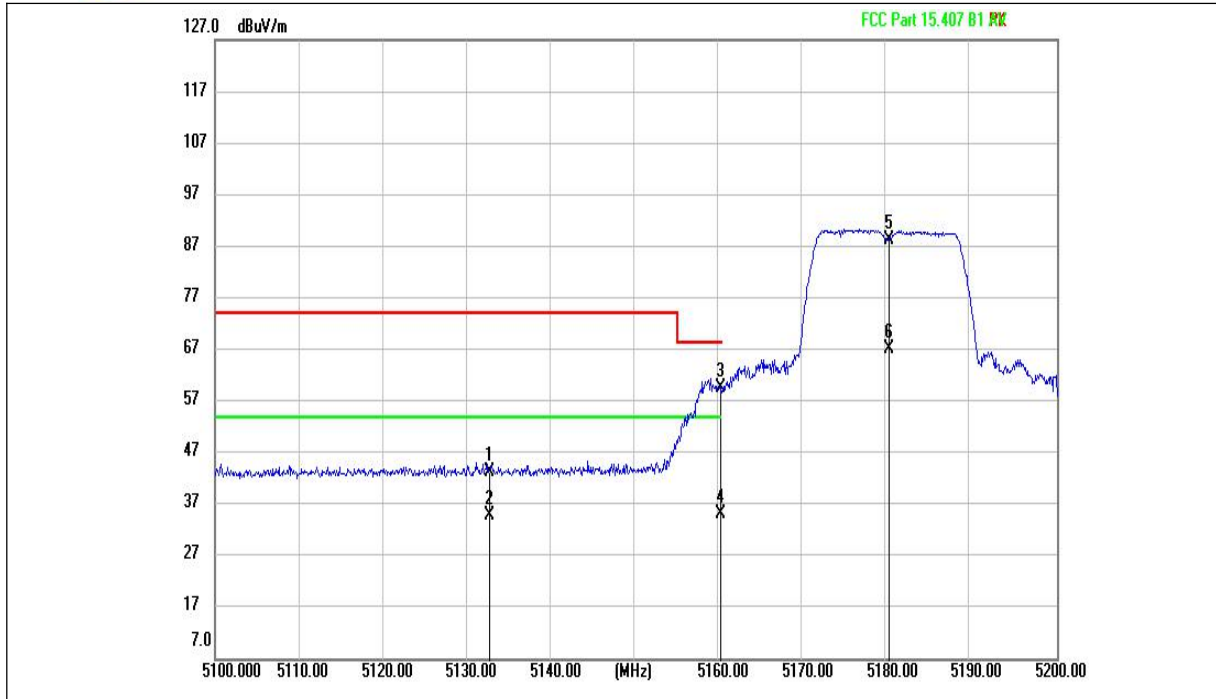
(802.11a_5825MHz, Antenna Horizontal)



(802.11a_5825MHz, Antenna Vertical)

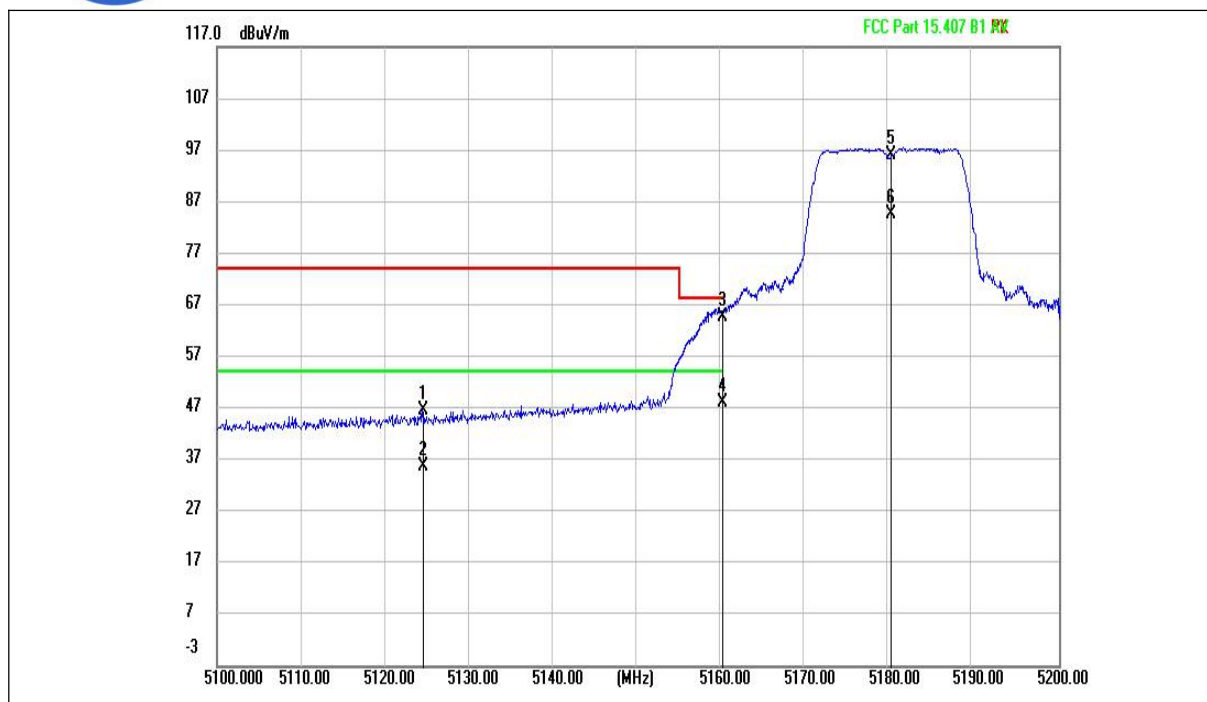
**802.11n (HT20) Test mode**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Pol	Verdict
		PK/AV						
36	5160	PK	62.75	-3.12	59.63	68.30	H	PASS
36	5160	AV	38.44	-3.12	35.32	54.00	H	PASS
36	5160	PK	69.16	-3.12	66.04	68.30	V	PASS
36	5160	AV	51.22	-3.12	48.10	54.00	V	PASS
64	5352.3	PK	57.17	-2.51	54.66	74.00	H	PASS
64	5352.3	AV	34.02	-2.51	31.51	54.00	H	PASS
64	5352.5	PK	56.55	-2.53	54.02	74.00	V	PASS
64	5352.5	AV	38.43	-2.53	35.90	54.00	V	PASS



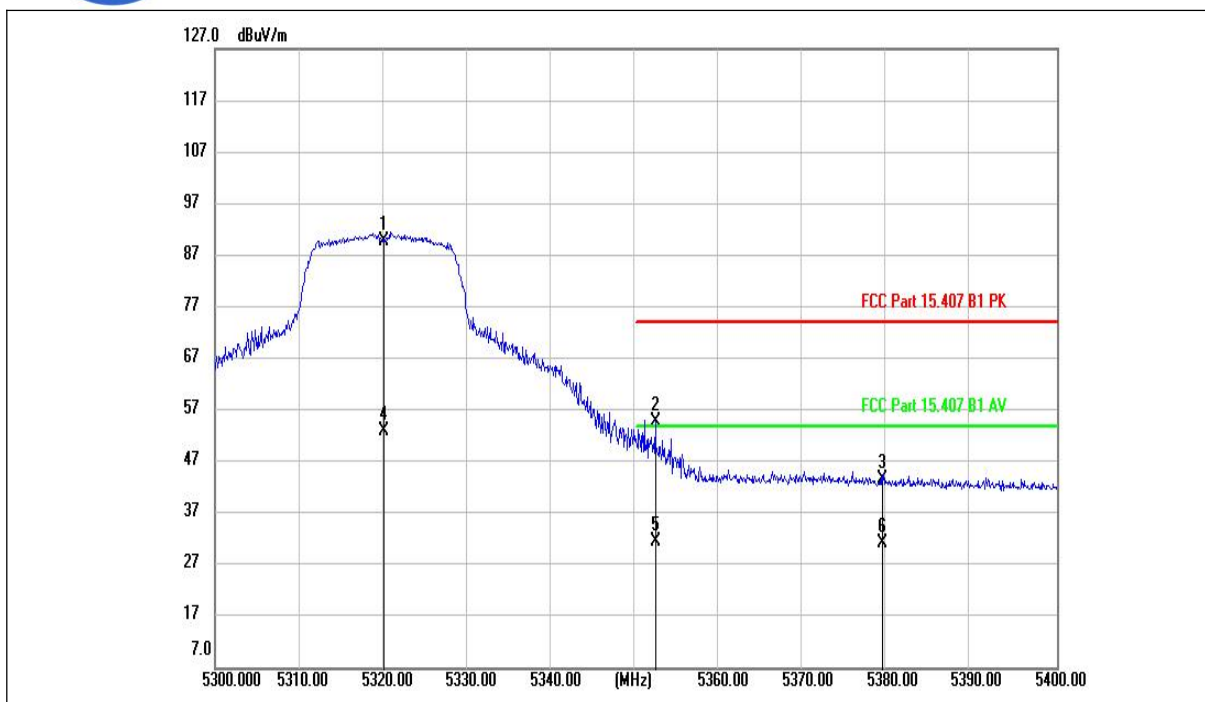
(802.11n (HT20) _5180MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5132.530	43.23	---	74.00	30.77	H	-3.15
5132.530	---	34.77	54.00	19.23	H	-3.15
5160.000	59.63	---	68.30	8.67	H	-3.12
5160.000	---	35.32	54.00	18.68	H	-3.12
5180.000	88.34	---	---	---	H	-3.04
5180.000	---	67.24	---	---	H	-3.04



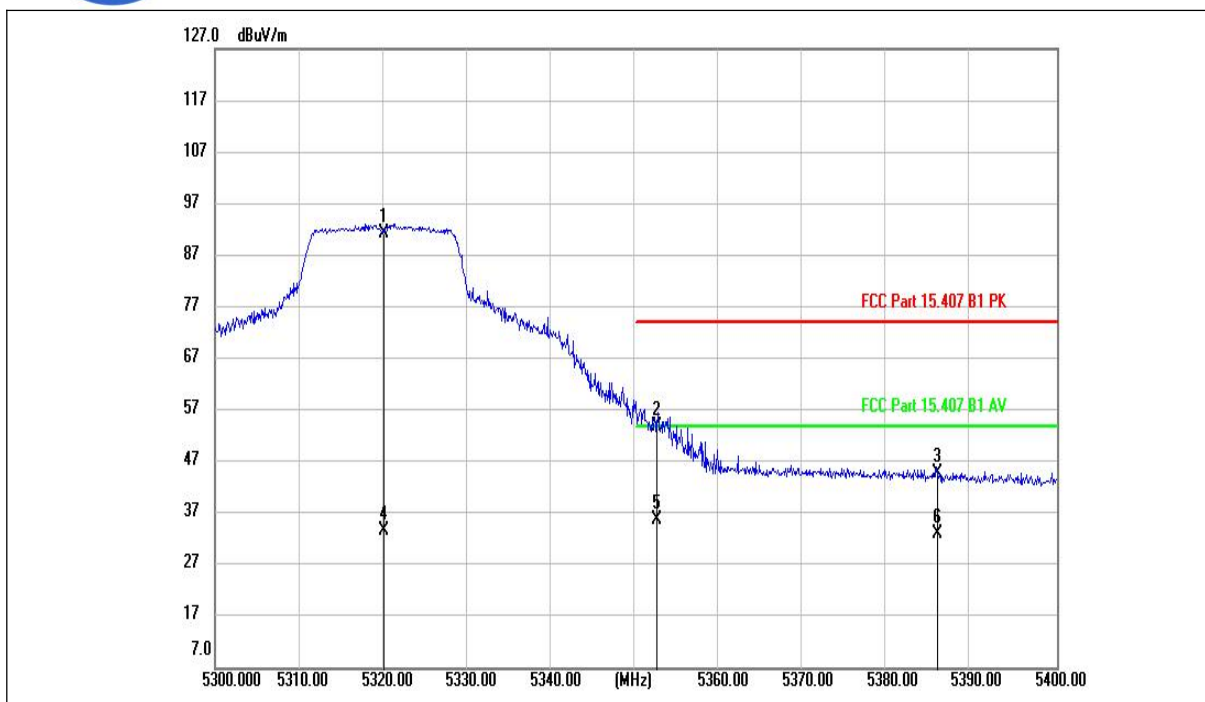
(802.11n (HT20) _5180MHz,, Antenna Vertical)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5124.490	46.71	---	74.00	27.29	V	-3.11
5124.490	---	35.77	54.00	18.23	V	-3.11
5160.000	66.04	---	68.30	2.26	V	-3.12
5160.000	---	48.10	54.00	5.90	V	-3.12
5180.000	96.06	---	---	---	V	-3.04
5180.000	---	84.66	---	---	V	-3.04



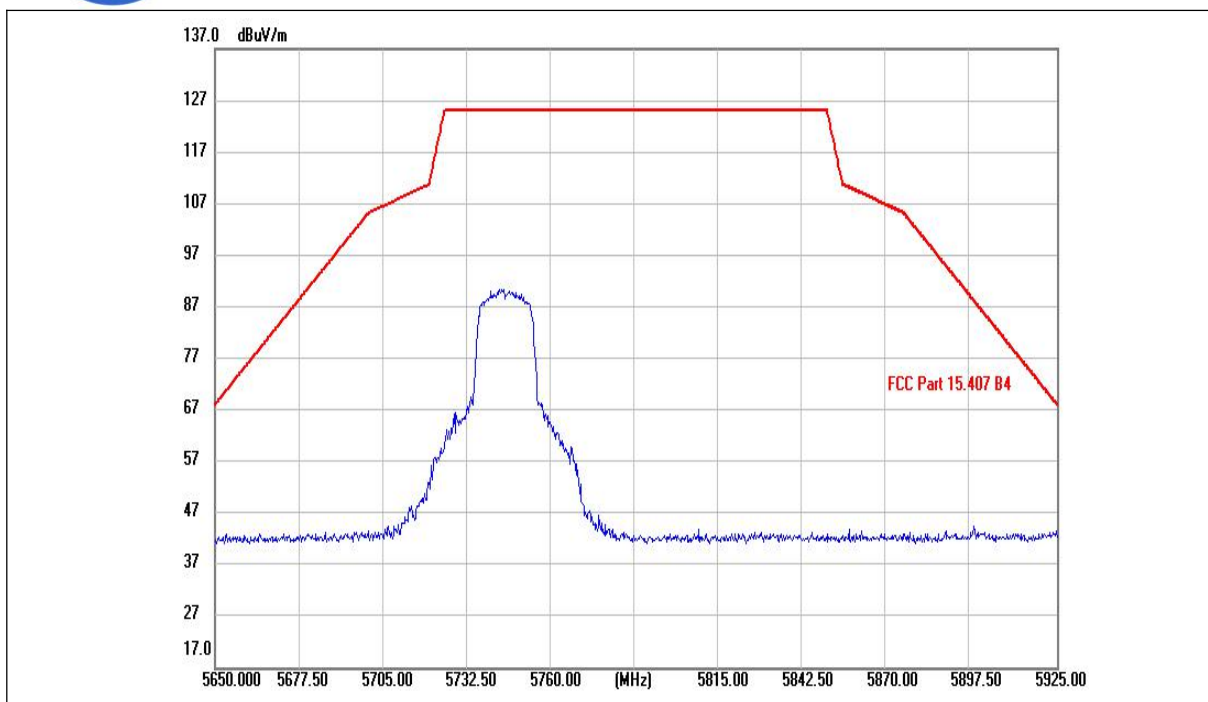
(802.11n (HT20) _5320MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5320.000	89.63	---	---	---	H	-2.83
5352.300	54.66	---	74.00	19.34	H	-2.53
5379.300	43.67	---	74.00	30.33	H	-2.28
5320.000	---	52.88	---	---	H	-2.83
5352.300	---	31.51	54.00	22.49	H	-2.53
5379.300	---	31.39	54.00	22.61	H	-2.28

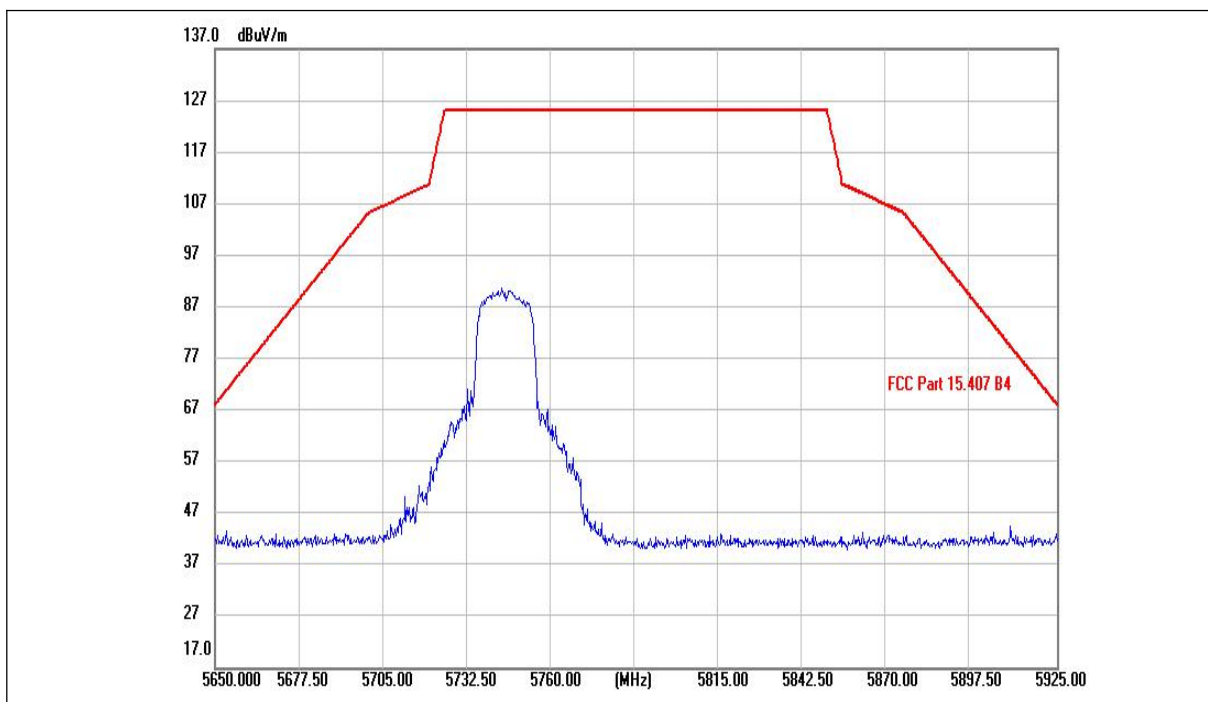


(802.11n (HT20) _5320MHz, Antenna Vertical)

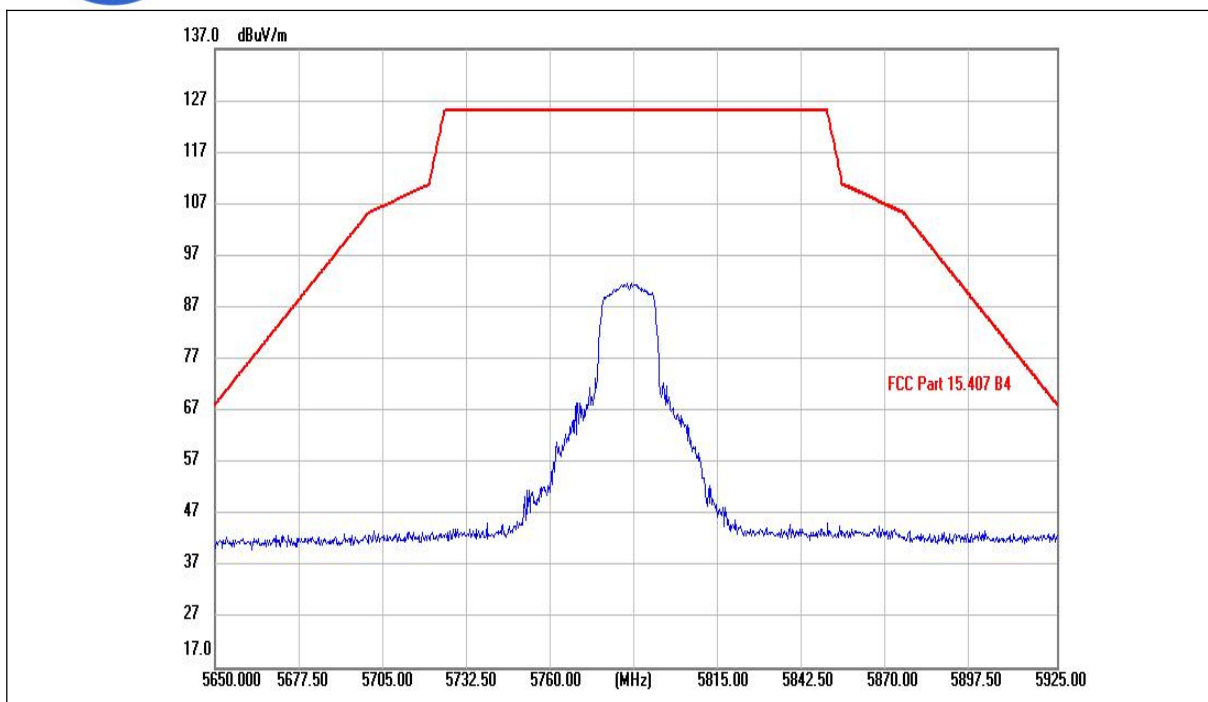
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5320.000	91.29	---	---	---	V	-2.83
5352.500	54.02	---	74.00	19.98	V	-2.53
5385.800	44.90	---	74.00	29.10	V	-2.35
5320.000	---	33.63	---	---	V	-2.83
5352.500	---	35.90	54.00	18.10	V	-2.53
5385.800	---	33.13	54.00	20.87	V	-2.35



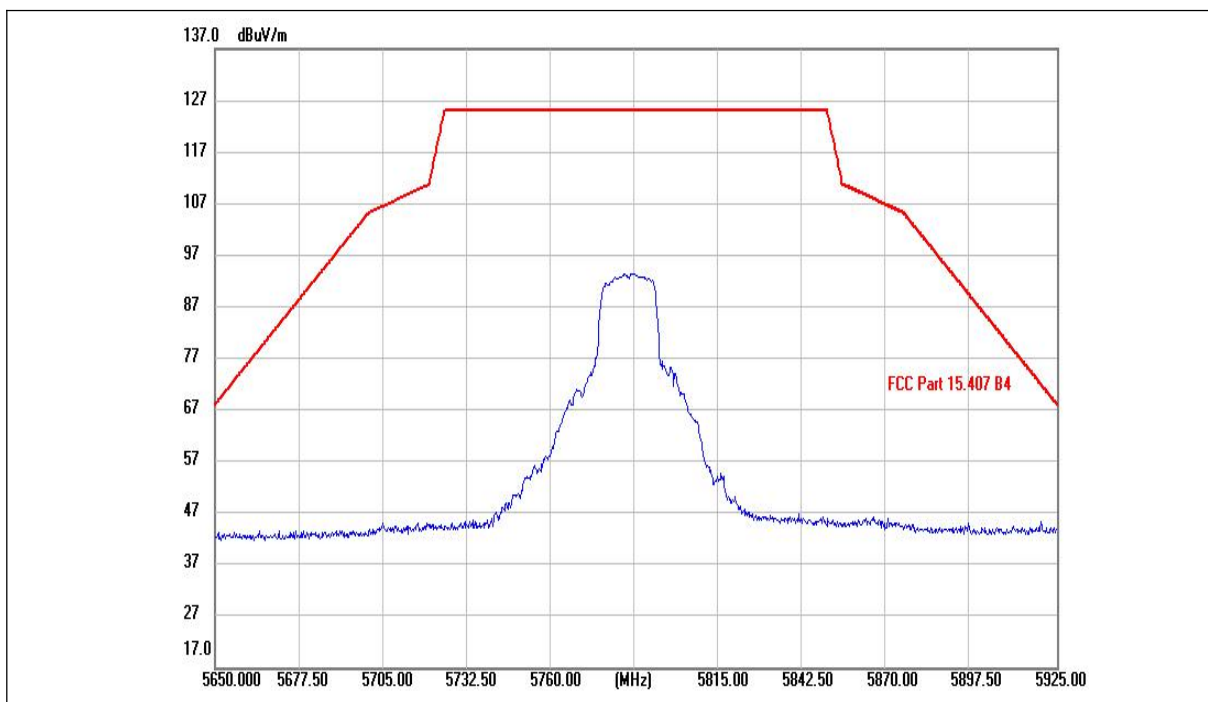
(802.11n(HT20)_5745MHz, Antenna Horizontal)



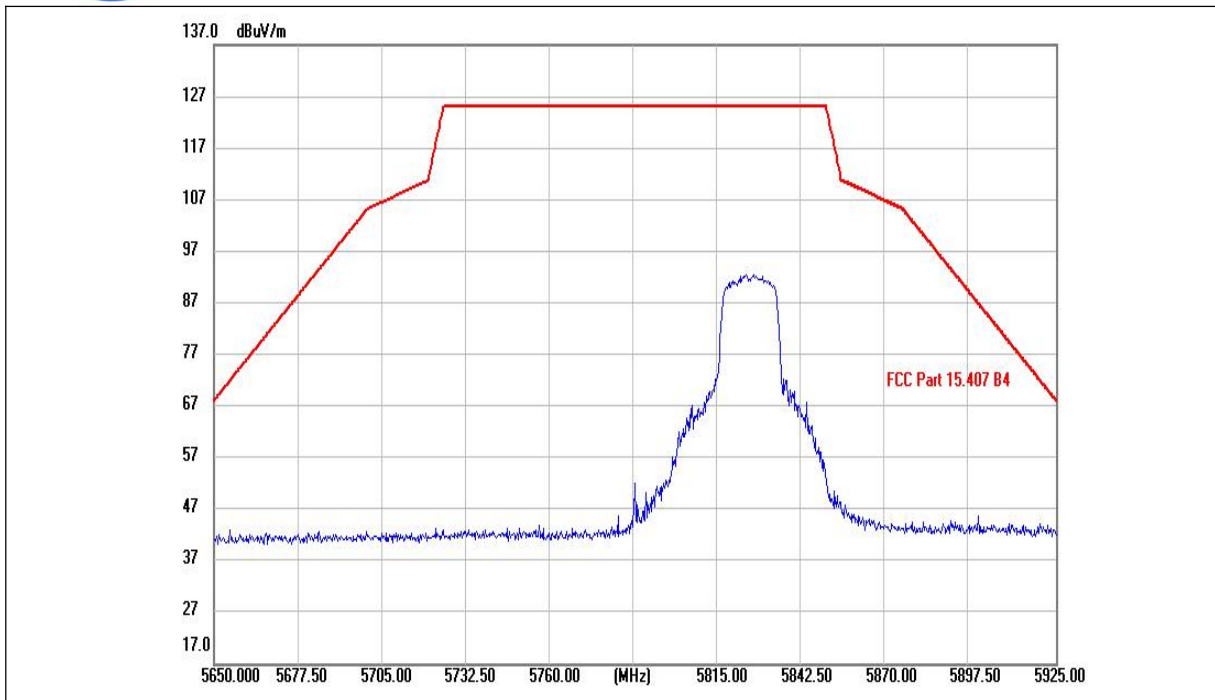
(802.11n(HT20)_5745MHz, Antenna Vertical)



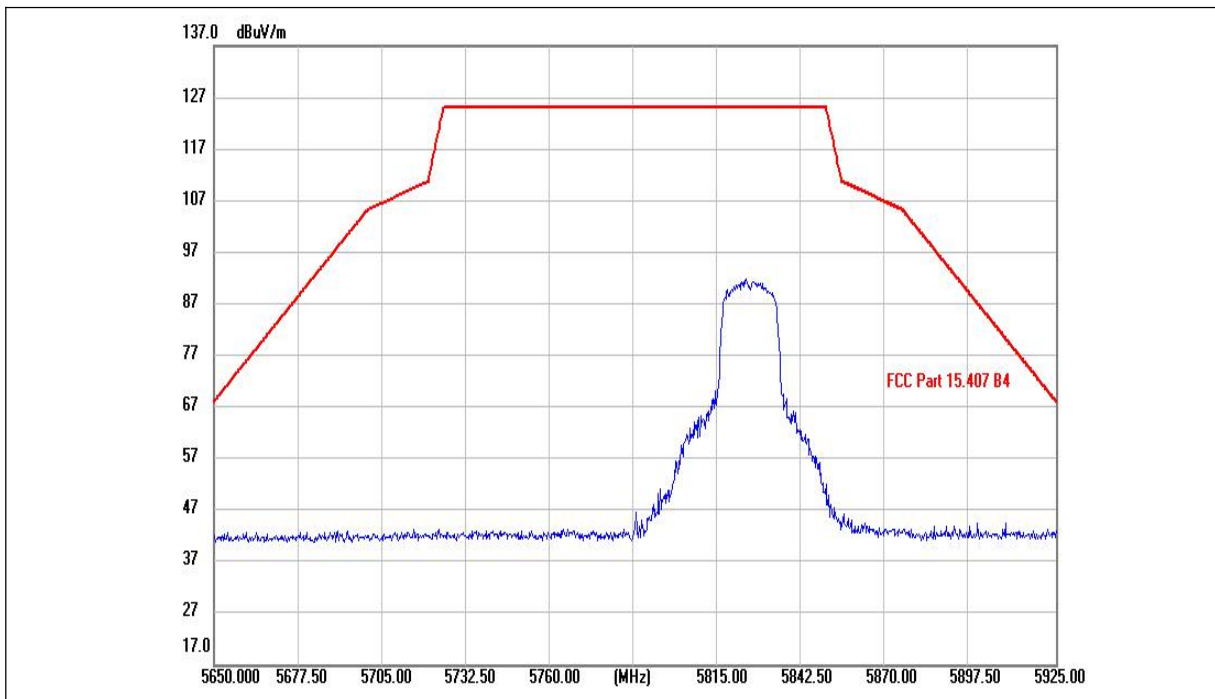
(802.11n(HT20)_5785MHz, Antenna Horizontal)



(802.11n(HT20)_5785MHz, Antenna Vertical)



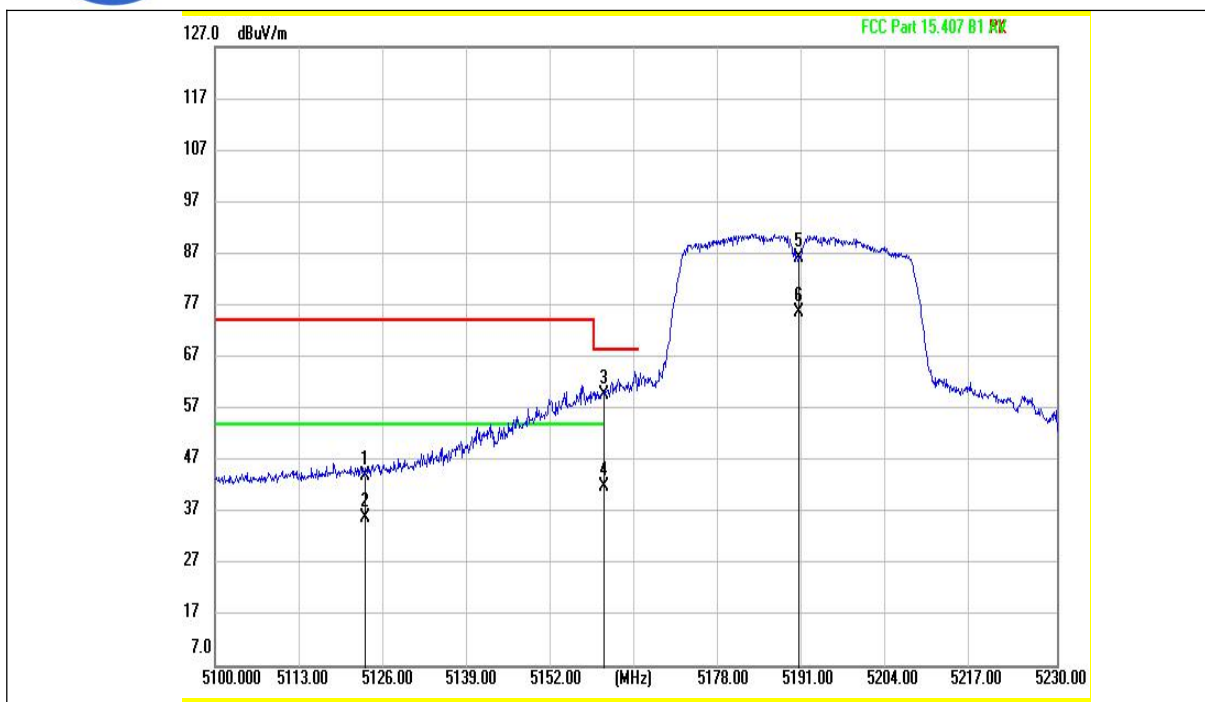
(802.11n(HT20)_5825MHz, Antenna Horizontal)



(802.11n(HT20)_5825MHz, Antenna Vertical)

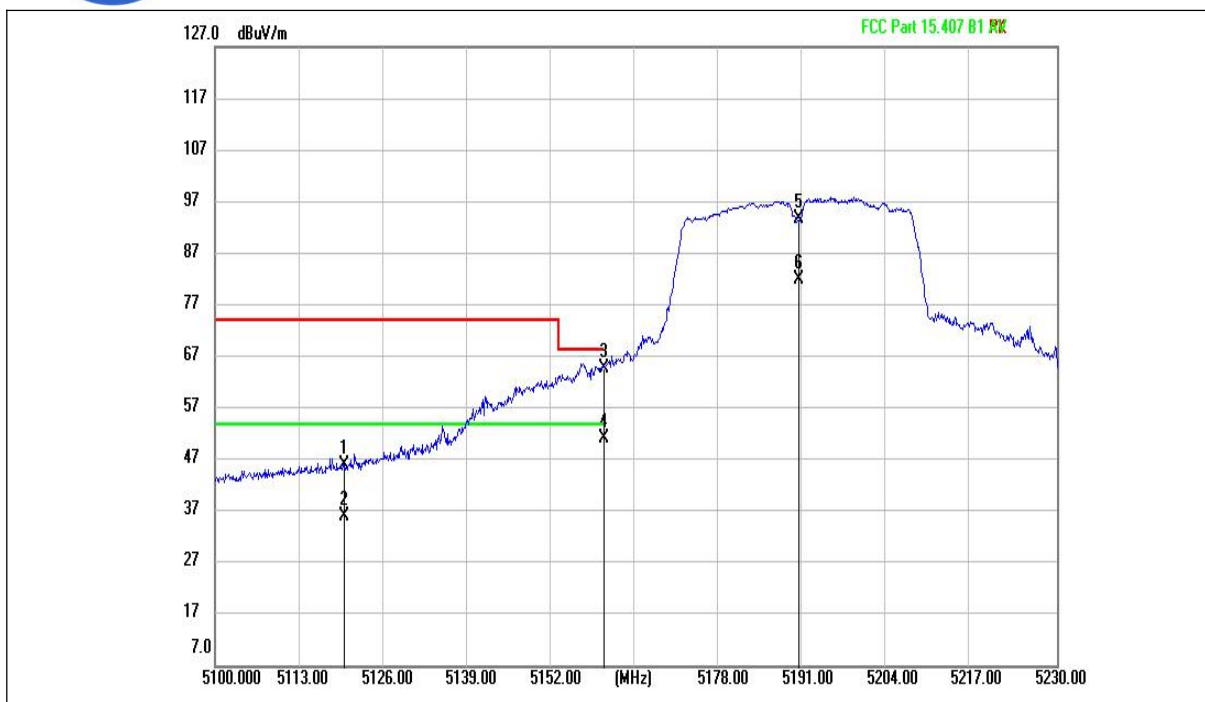
**802.11n (HT40) Test mode**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Pol	Verdict
		PK/AV						
38	5160	PK	62.78	-3.12	59.66	68.30	H	PASS
38	5160	AV	44.86	-3.12	41.74	54.00	H	PASS
38	5160	PK	68.93	-3.12	65.81	68.30	V	PASS
38	5160	AV	54.41	-3.12	51.29	54.00	V	PASS
62	5353.61	PK	63.42	-2.52	60.91	74.00	H	PASS
62	5353.61	AV	40.73	-2.52	38.21	54.00	H	PASS
62	5353.61	PK	68.38	-2.52	65.86	74.00	V	PASS
62	5353.61	AV	50.95	-2.52	48.43	54.00	V	PASS



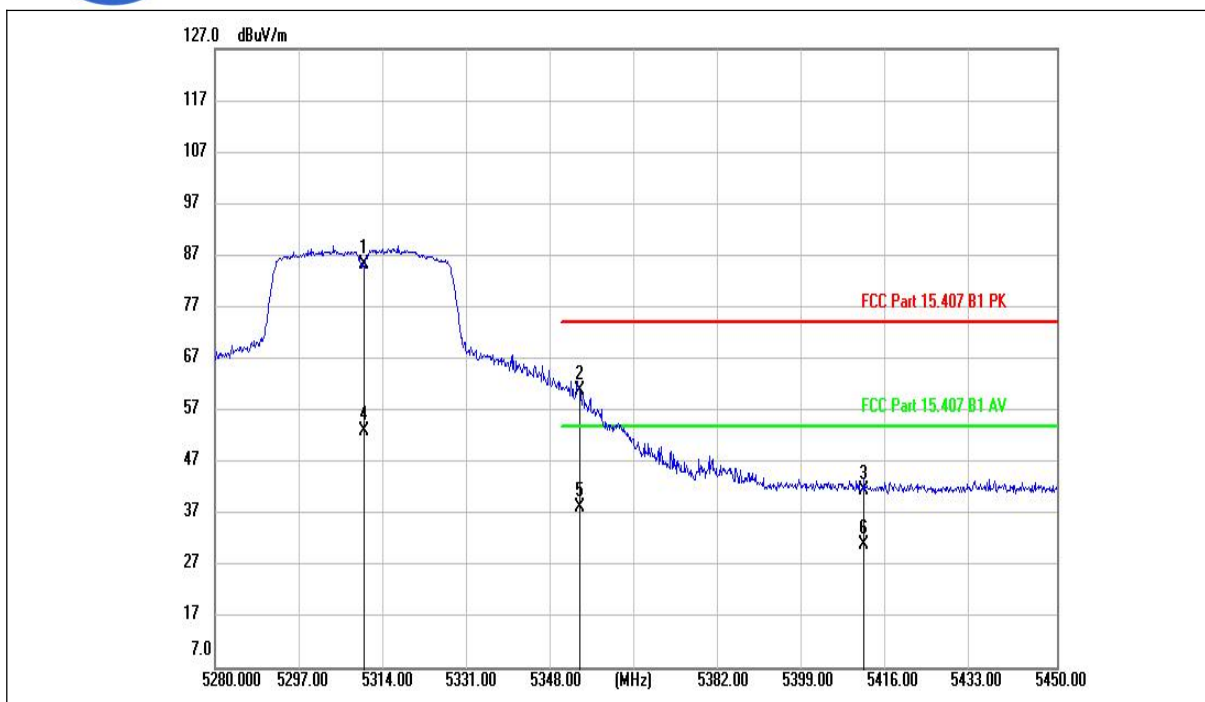
(802.11n (HT40) _5190MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5123.114	44.03	---	74.00	29.97	H	-3.11
5123.114	---	35.76	54.00	18.24	H	-3.11
5160.000	59.66	---	68.30	8.64	H	-3.12
5160.000	---	41.74	54.00	12.26	H	-3.12
5190.000	86.12	---	---	---	H	-3.02
5190.000	---	75.46	---	---	H	-3.02



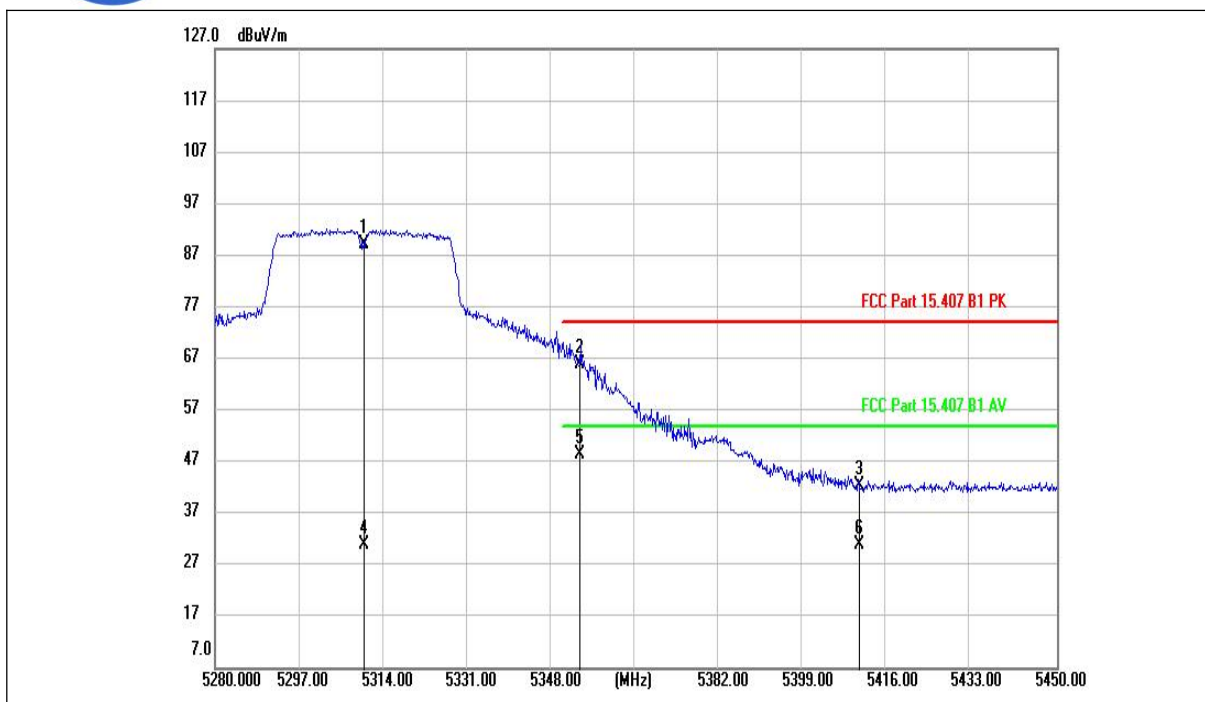
(802.11n (HT40) _5190MHz, Antenna Vertical)

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5119.786	46.04	---	74.00	27.96	V	-3.09
5119.786	---	36.03	54.00	17.97	V	-3.09
5160.000	65.81	---	68.30	2.49	V	-3.12
5160.000	---	51.29	54.00	2.71	V	-3.12
5190.000	93.59	---	---	---	V	-3.02
5190.000	---	81.89	---	---	V	-3.02



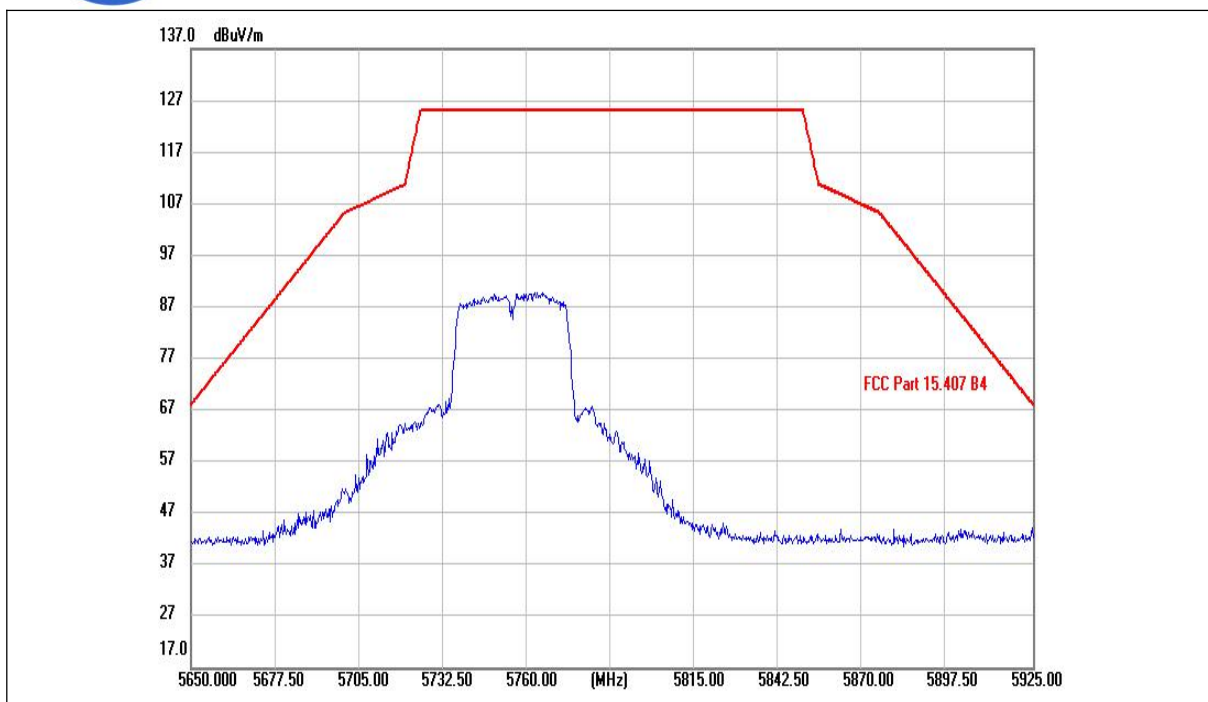
(802.11n (HT40) _5310MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5310.000	85.34	---	---	---	H	-2.88
5353.610	60.91	---	74.00	13.09	H	-2.51
5410.900	41.57	---	74.00	32.43	H	-2.63
5310.000	---	52.92	---	---	H	-2.88
5353.610	---	38.21	54.00	15.79	H	-2.51
5410.900	---	31.00	54.00	23.00	H	-2.63

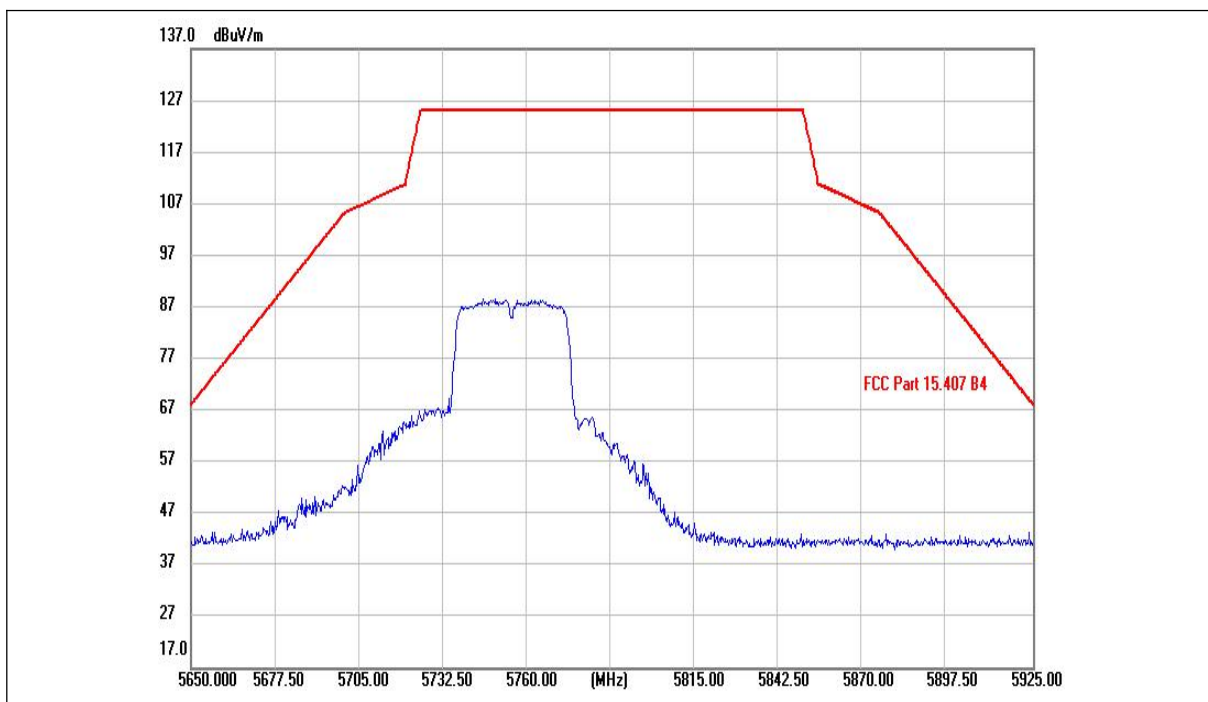


(802.11n (HT40) _5310MHz, Antenna Vertical)

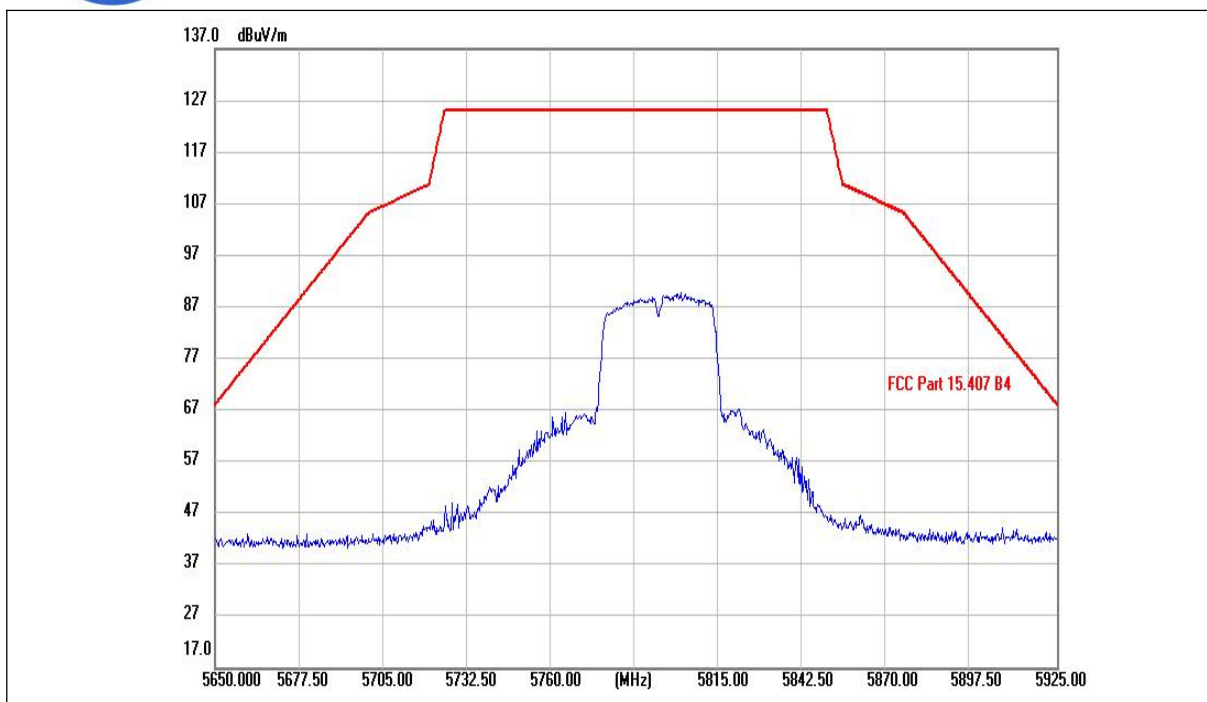
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5310.000	89.22	---	---	---	V	-2.88
5353.610	65.86	---	74.00	8.14	V	-2.51
5410.050	42.38	---	74.00	31.62	V	-2.62
5310.000	---	31.03	---	---	V	-2.88
5353.610	---	48.43	54.00	5.57	V	-2.51
5410.050	---	31.06	54.00	22.94	V	-2.62



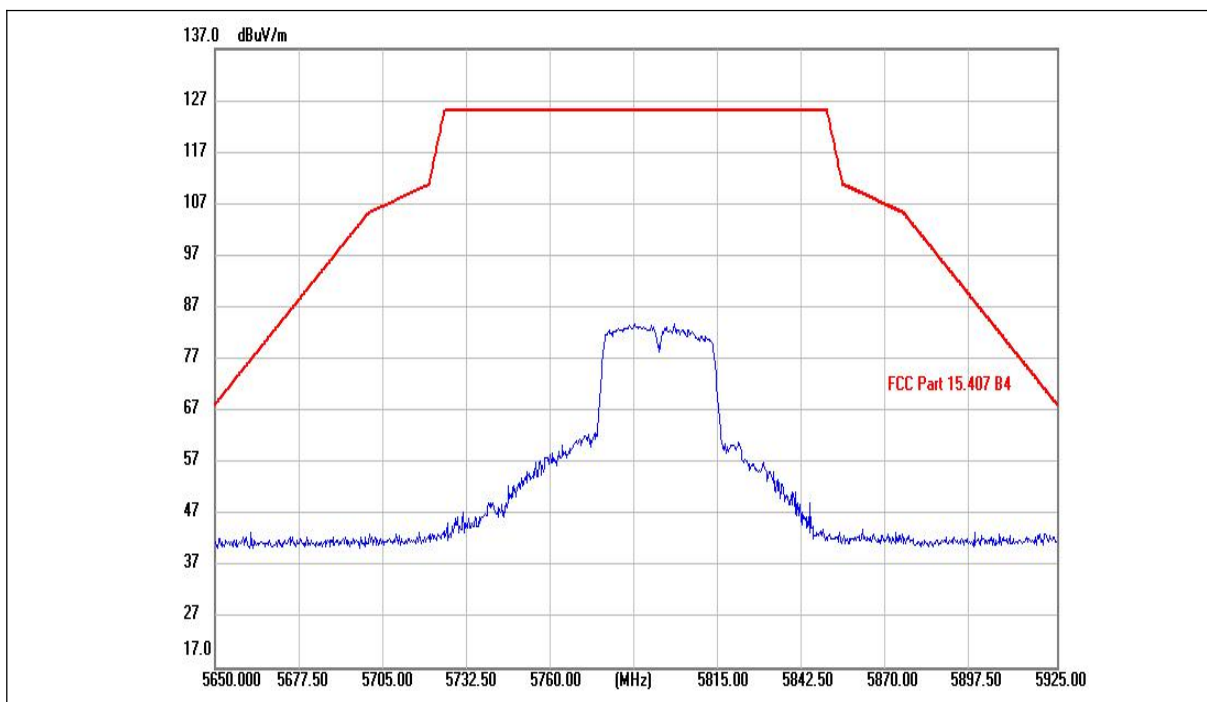
(802.11n(HT40) _5755MHz, Antenna Horizontal)



(802.11n(HT40) _5755MHz, Antenna Vertical)



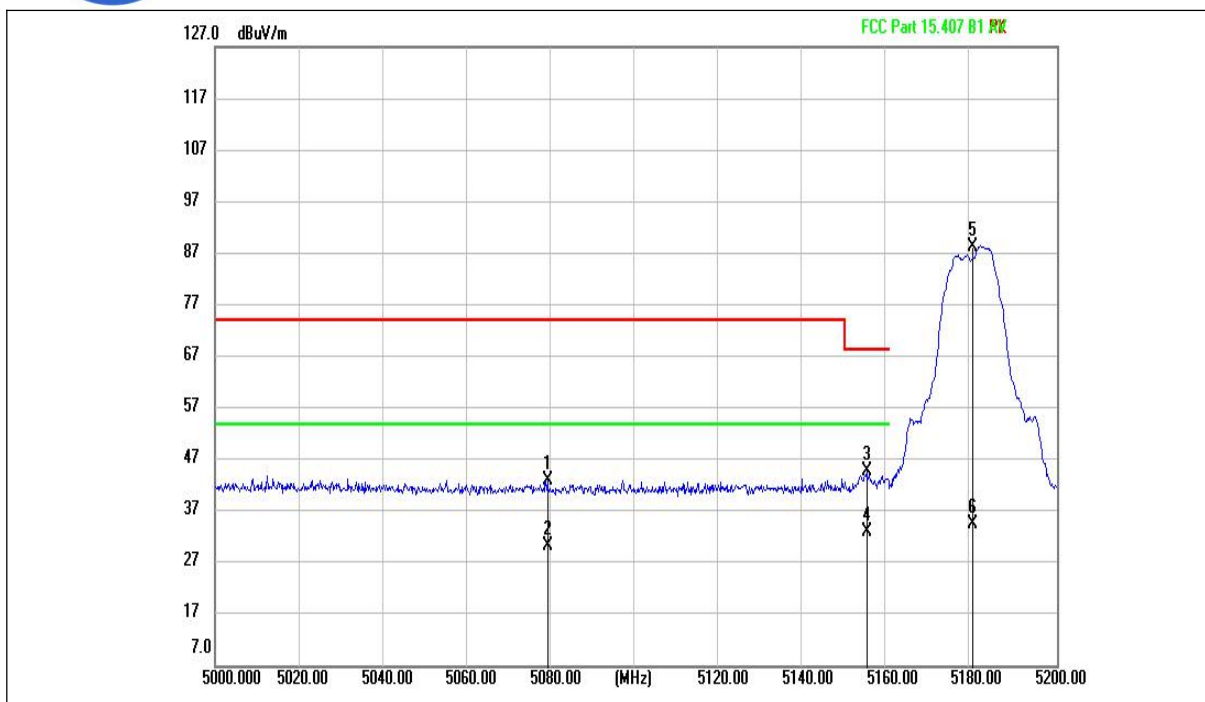
(802.11n(HT40)_5795MHz, Antenna Horizontal)



(802.11n(HT40)_5795MHz, Antenna Vertical)

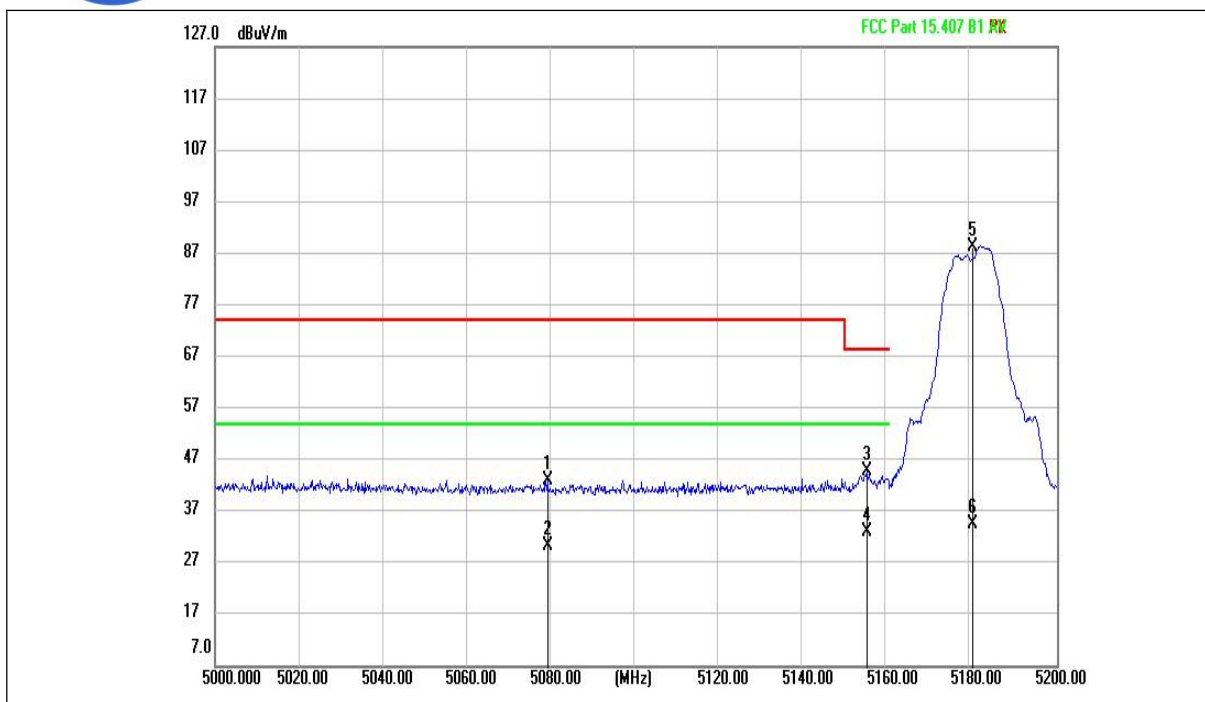
**802.11ac (HT20) Test mode**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Pol	Verdict
		PK/AV						
36	5154.8	PK	48.08	-3.10	44.98	68.30	H	PASS
36	5154.8	AV	36.06	-3.10	32.96	54.00	H	PASS
36	5157.4	PK	48.10	-3.11	43.99	68.30	V	PASS
36	5157.4	AV	37.55	-3.11	34.44	54.00	V	PASS
64	5357.6	PK	46.12	-2.54	43.58	74.00	H	PASS
64	5357.6	AV	33.92	-2.54	31.38	54.00	H	PASS
64	5356.8	PK	46.51	-2.53	43.98	74.00	V	PASS
64	5356.8	AV	33.75	-2.53	31.22	54.00	V	PASS



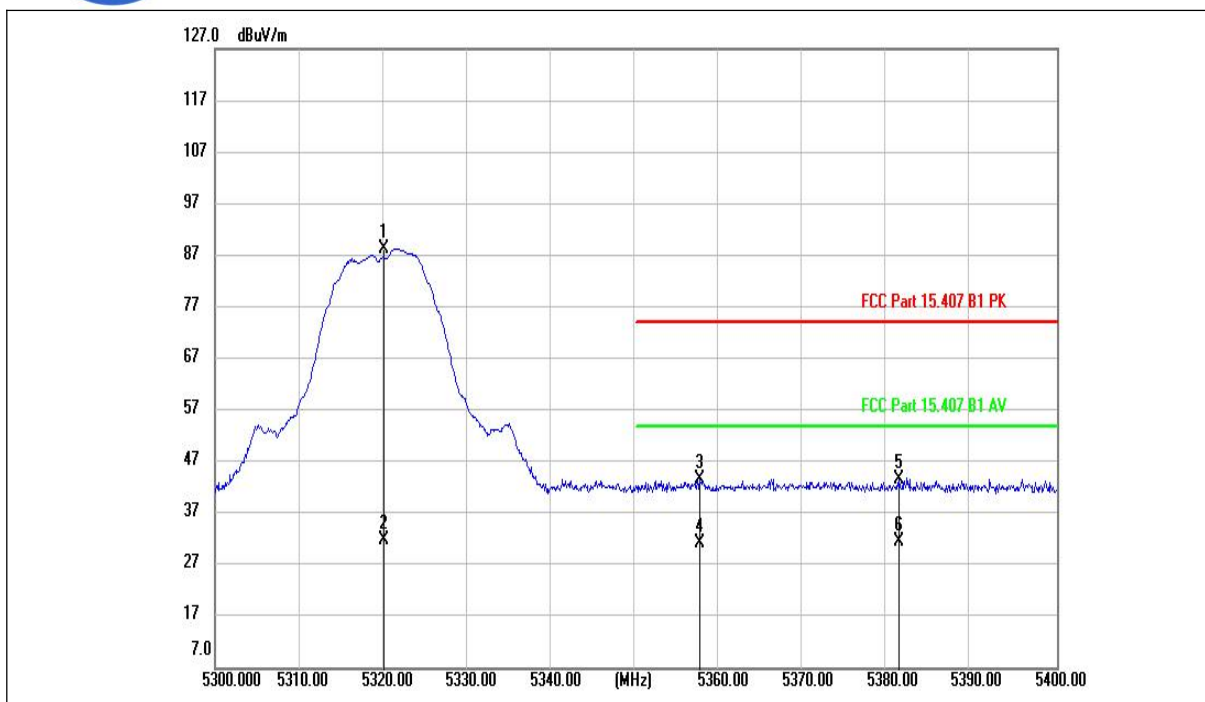
(802.11ac(HT20)_5180MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5079.000	42.92	---	74.00	31.08	H	-2.98
5079.000	---	30.48	54.00	23.52	H	-2.98
5154.800	44.98	---	68.30	23.32	H	-3.18
5154.800	---	32.96	54.00	21.04	H	-3.18
5180.000	88.39	---	---	---	H	-3.04
5180.000	---	34.46	---	---	H	-3.04



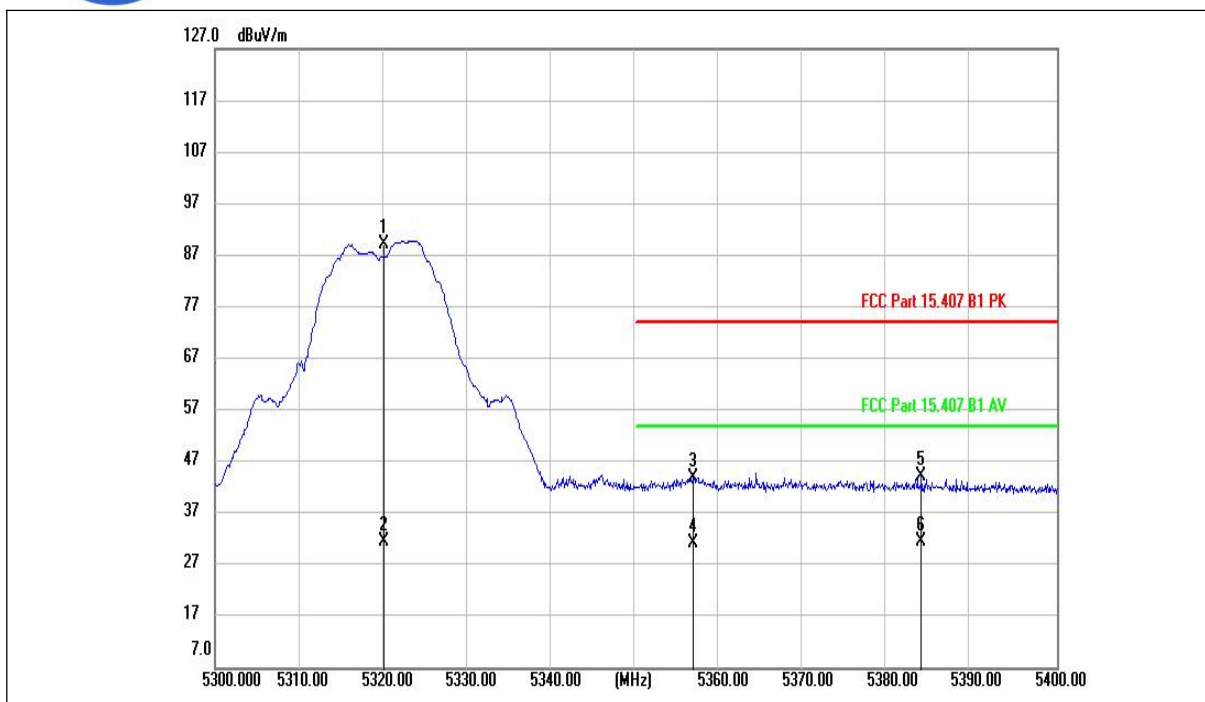
(802.11ac(HT20)_5180MHz, Antenna Vertical)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5106.200	43.22	---	74.00	30.78	V	-3.04
5106.200	---	30.56	54.00	23.44	V	-3.04
5157.400	43.99	---	68.30	24.31	V	-3.15
5157.400	---	34.44	54.00	19.56	V	-3.15
5180.000	88.82	---	---	---	V	-3.04
5180.000	---	85.44	---	---	V	-3.04



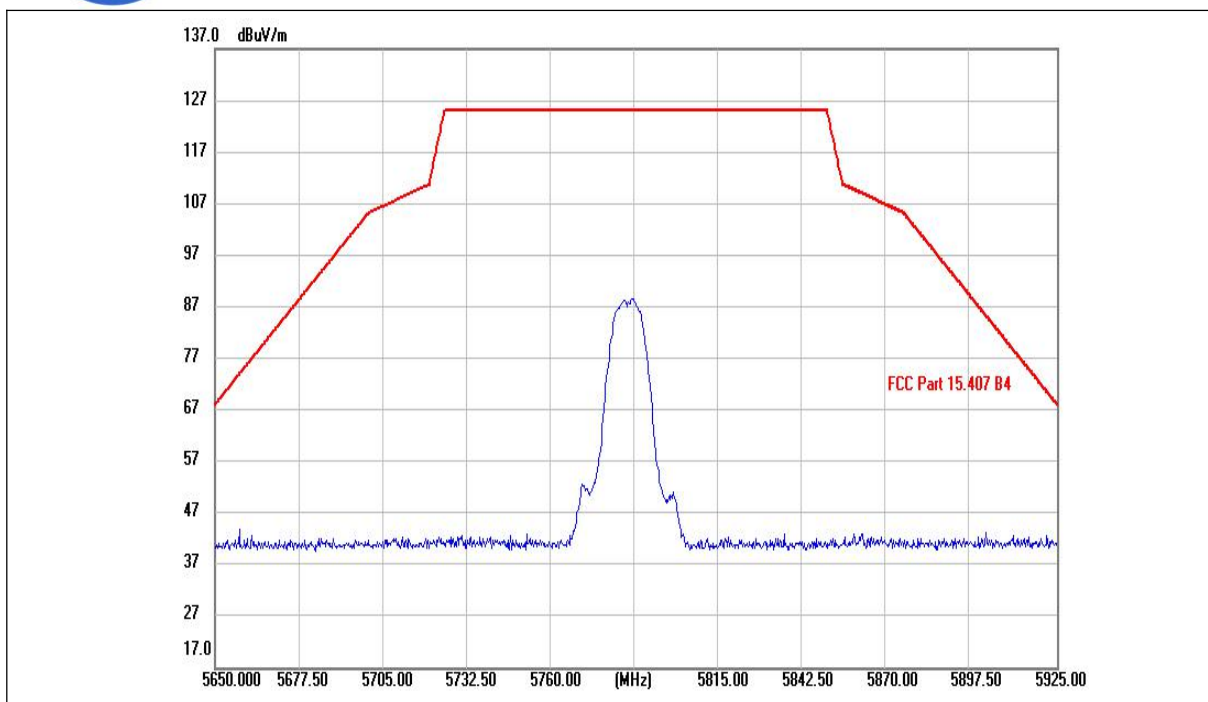
(802.11ac(HT20)_5320MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5320.000	88.35	---	---	---	H	-2.83
5320.000	---	31.85	---	---	H	-2.83
5357.600	43.58	---	74	30.42	H	-2.46
5357.600	---	31.38	54	22.62	H	-2.46
5381.300	43.72	---	74	30.28	H	-2.29
5381.300	---	31.48	54	22.52	H	-2.29

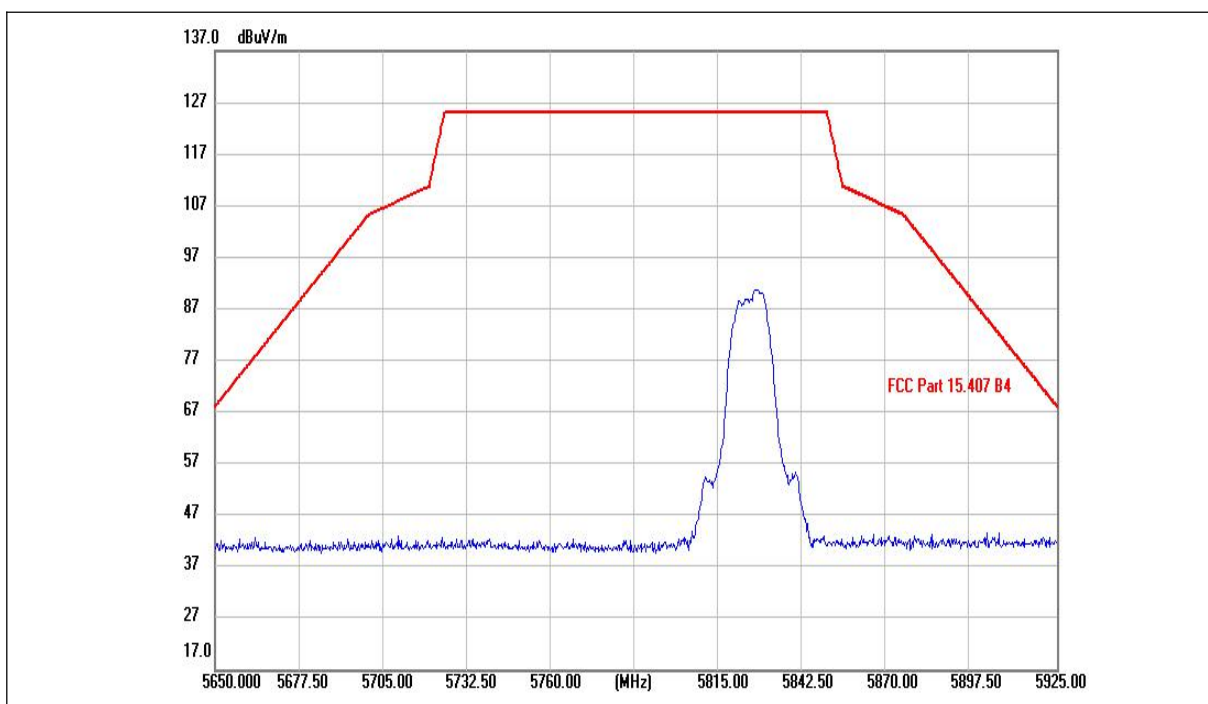


(802.11ac(HT20) _5320MHz, Antenna Vertical)

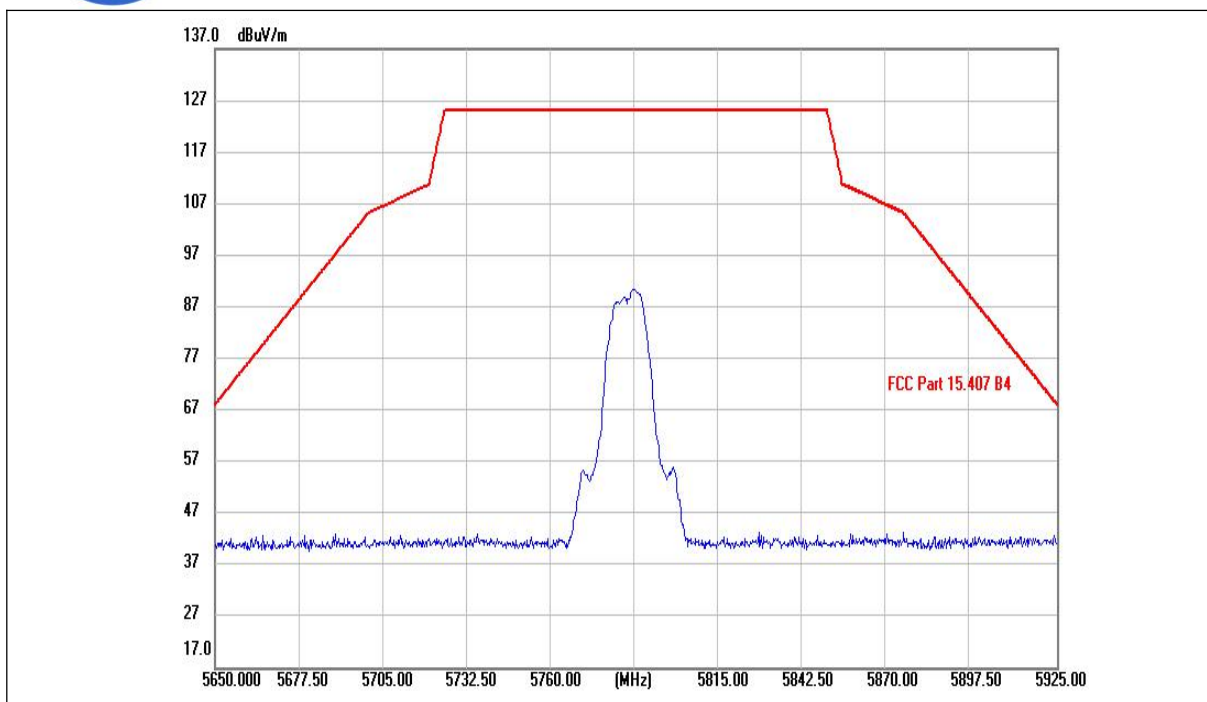
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5320.000	89.08	---	---	---	V	-2.83
5320.000	---	31.58	---	---	V	-2.83
5356.800	43.98	---	74.00	30.02	V	-2.47
5356.800	---	31.22	54.00	22.78	V	-2.47
5383.900	44.10	---	74.00	29.90	V	-2.33
5383.900	---	31.48	54.00	22.52	V	-2.33



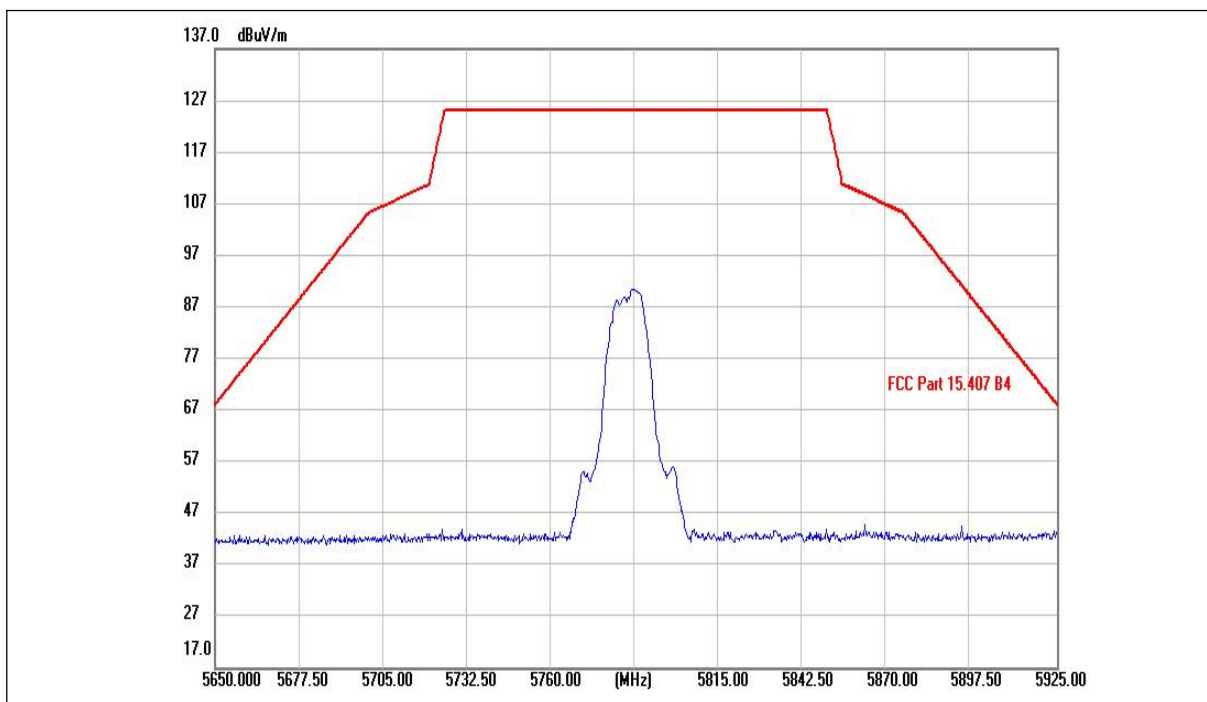
(802.11ac(HT20)_5745MHz, Antenna Horizontal)



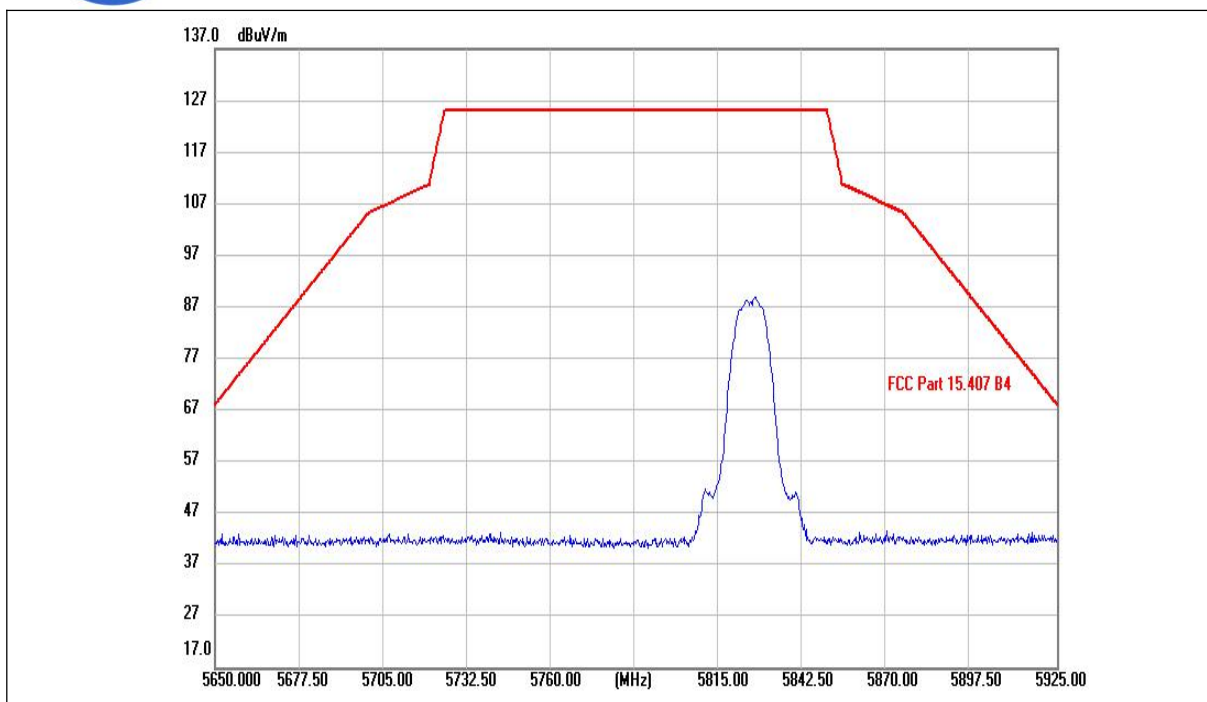
(802.11ac(HT20)_5745MHz, Antenna Vertical)



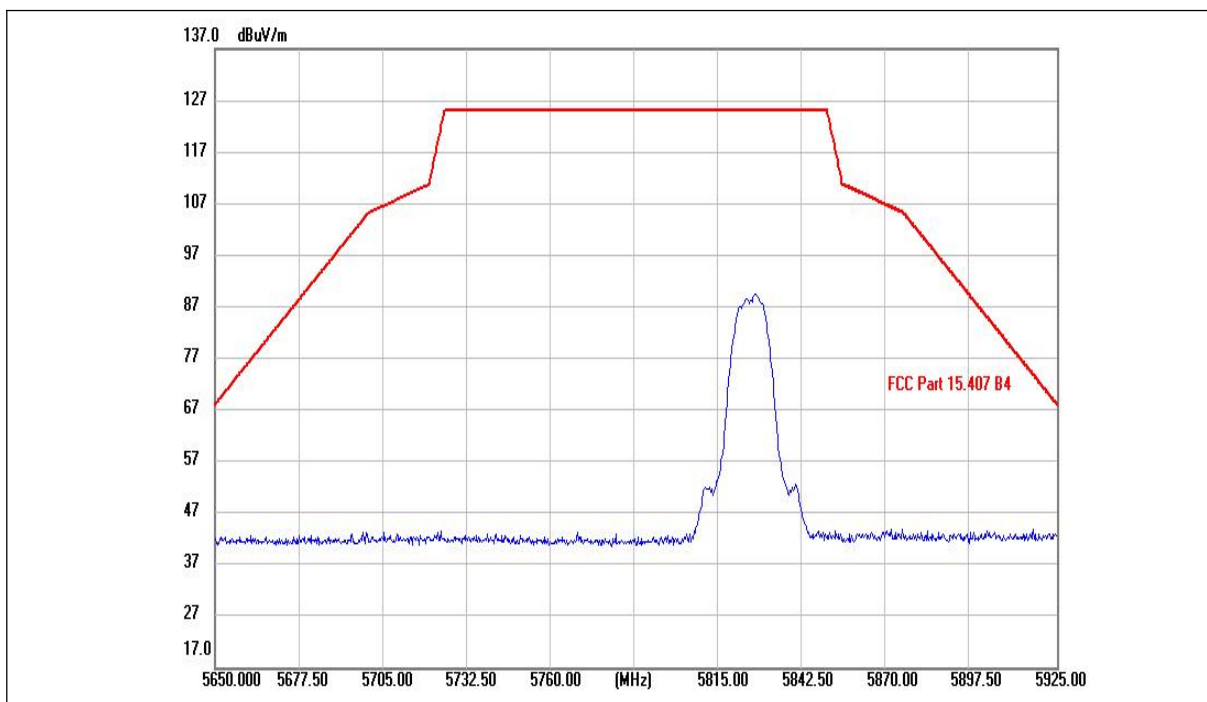
(802.11ac(HT20)_5785MHz, Antenna Horizontal)



(802.11ac(HT20)_5785MHz, Antenna Vertical)



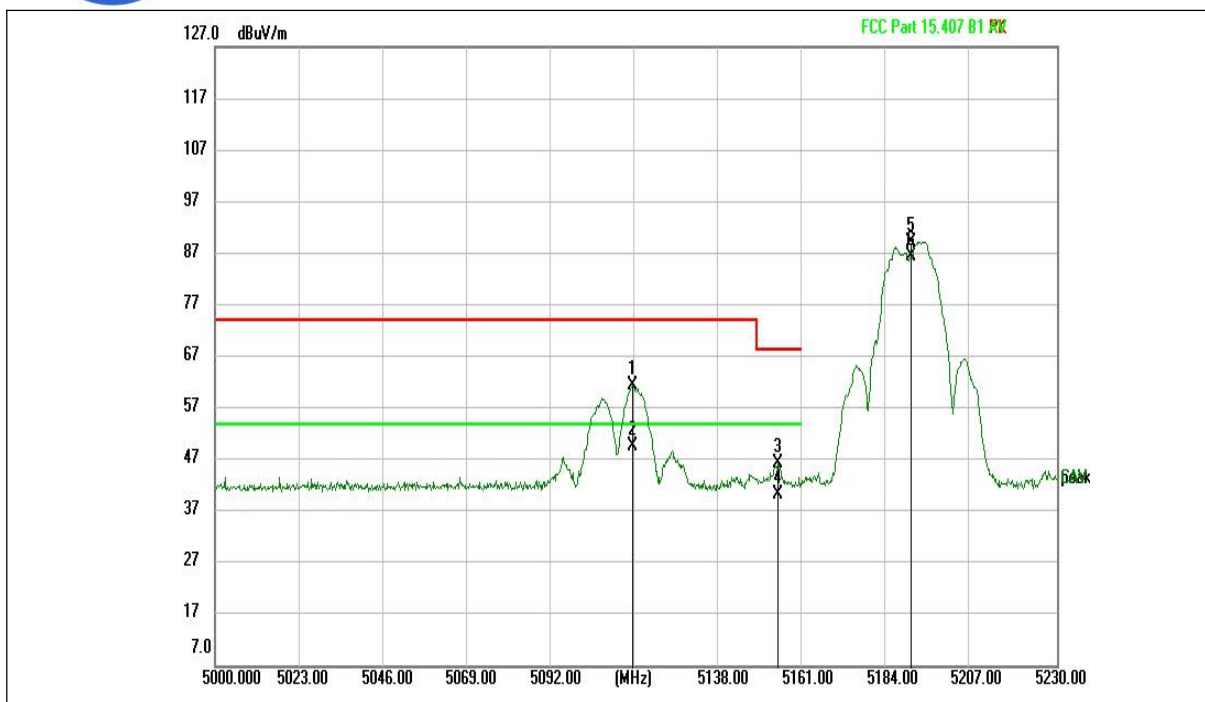
(802.11ac(HT20) _5825MHz, Antenna Horizontal)



(802.11ac(HT20) _5825MHz, Antenna Vertical)

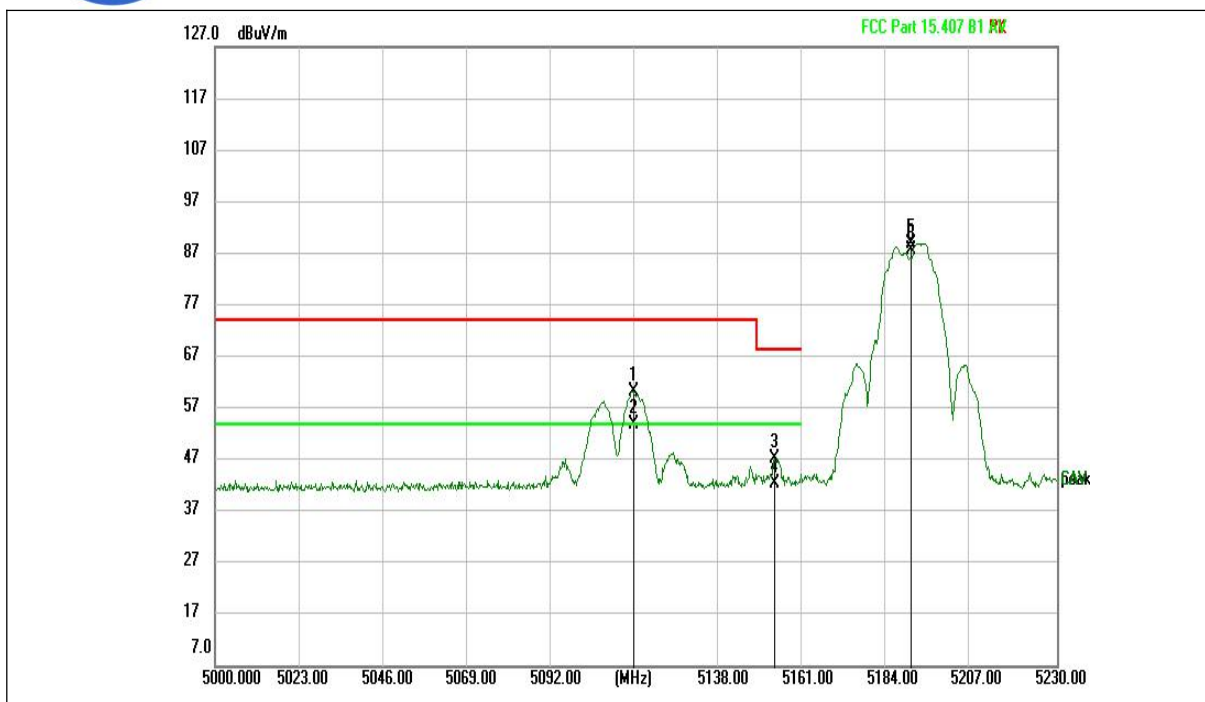
**802.11ac (HT40) Test mode**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Pol	Verdict
		PK/AV						
38	5153.87	PK	49.44	-3.09	46.35	68.30	H	PASS
38	5154.8	AV	43.46	-3.09	40.37	54.00	H	PASS
38	5152.95	PK	50.15	-2.98	47.17	68.30	V	PASS
38	5152.95	AV	45.52	-2.98	42.54	54.00	V	PASS
62	5353.61	PK	47.02	-2.49	44.53	74.00	H	PASS
62	5353.61	AV	33.76	-2.49	31.27	54.00	H	PASS
62	5352.93	PK	46.29	-2.51	43.78	74.00	V	PASS
62	5352.93	AV	35.17	-2.51	32.66	54.00	V	PASS



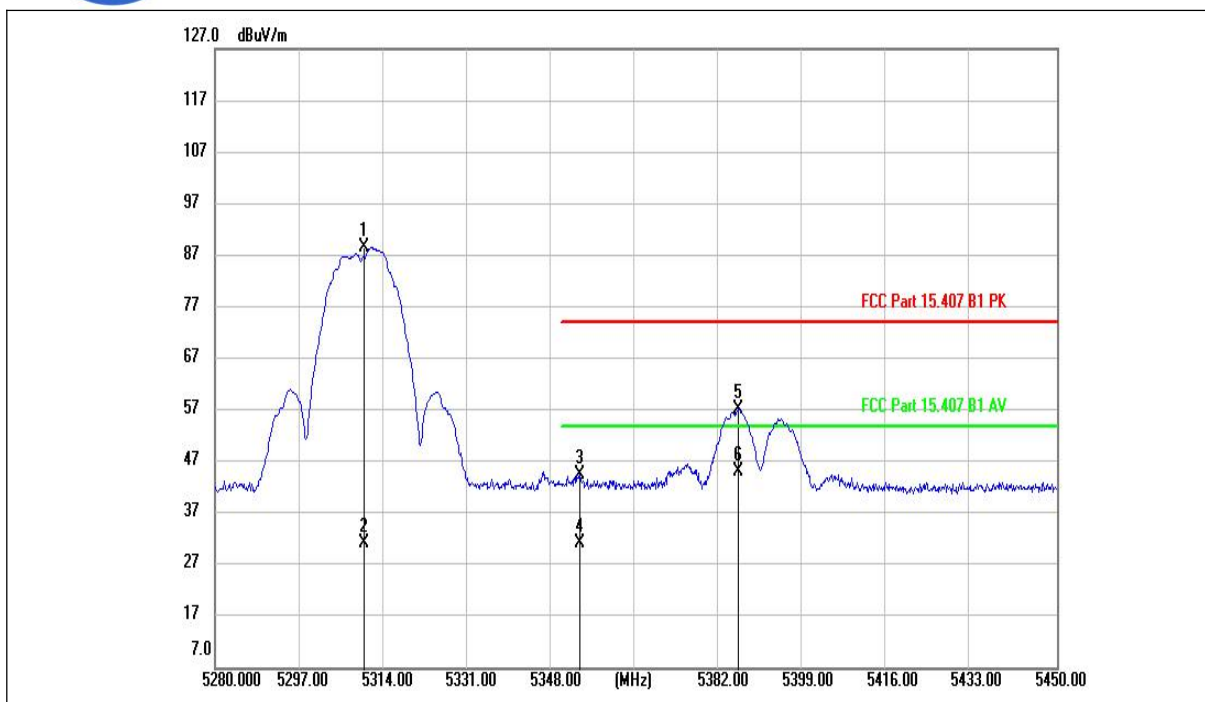
(802.11ac (HT40) _5190MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5114.080	61.45	---	74.00	12.55	H	-3.06
5114.080	---	49.53	54.00	4.47	H	-3.06
5153.870	46.35	---	68.30	21.95	H	-3.20
5153.870	---	40.37	54.00	13.63	H	-3.20
5190.000	89.18	---	---	---	H	-3.02
5190.000	---	86.53	---	---	H	-3.02



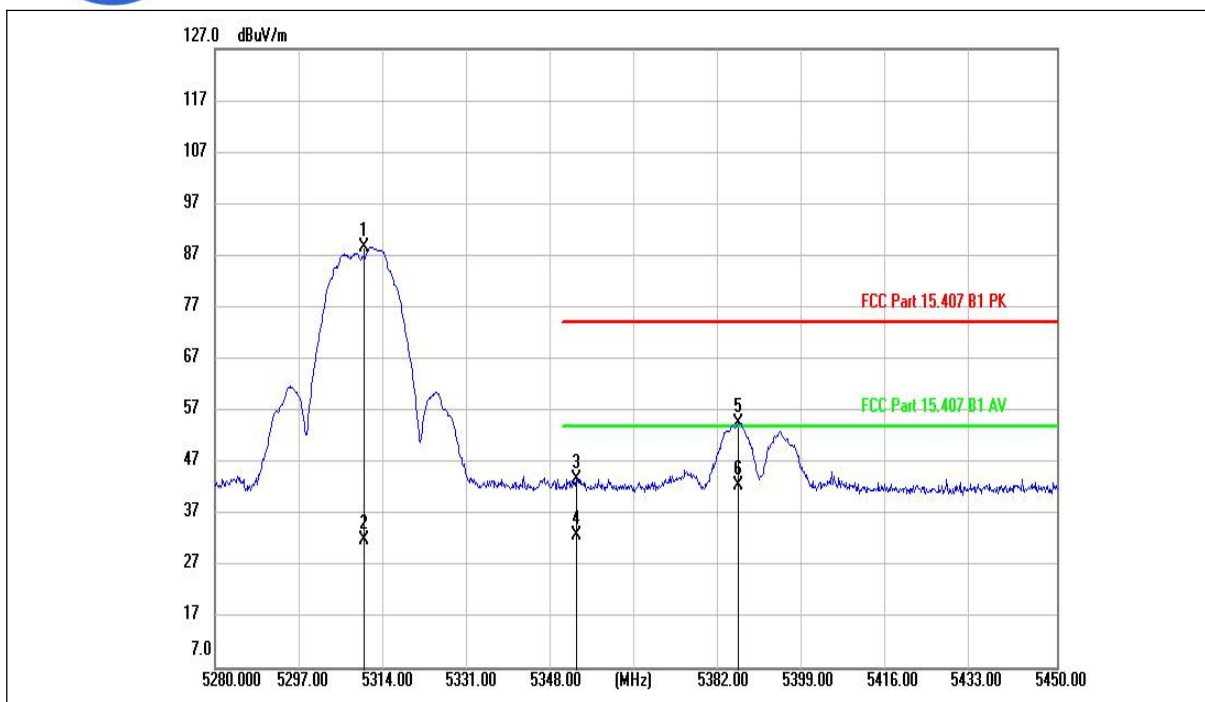
(802.11ac (HT40) _5190MHz, Antenna Vertical)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5114.540	60.36	---	74.00	13.64	V	-3.06
5114.540	---	53.78	54.00	0.22	V	-3.06
5152.950	47.17	---	68.30	21.13	V	-3.21
5152.950	---	42.54	54.00	11.46	V	-3.21
5190.000	88.94	---	---	---	V	-3.02
5190.000	---	87.72	---	---	V	-3.02



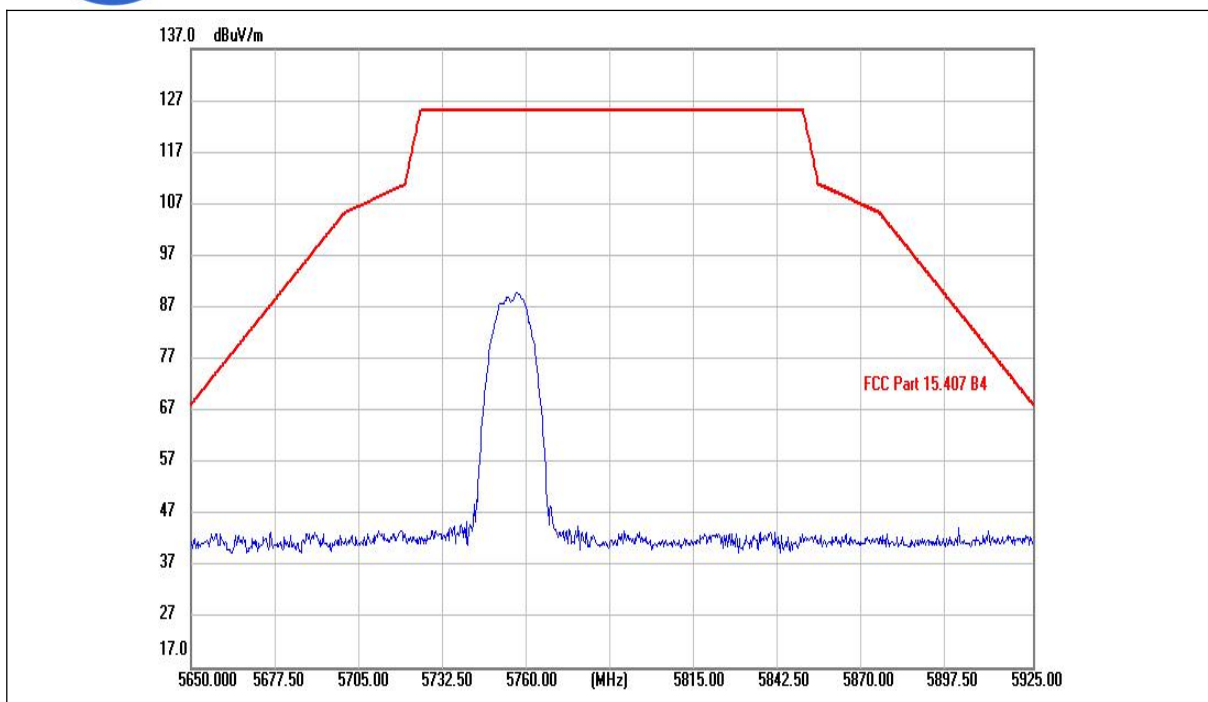
(802.11ac (HT40) _5310MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5310.000	88.50	---	---	---	H	-2.88
5310.000	---	31.19	---	---	H	-2.88
5353.610	44.53	---	74.00	29.47	H	-2.51
5353.610	---	31.27	54.00	22.73	H	-2.51
5385.740	57.20	---	74.00	16.80	H	-2.35
5385.740	---	45.26	54.00	8.74	H	-2.35

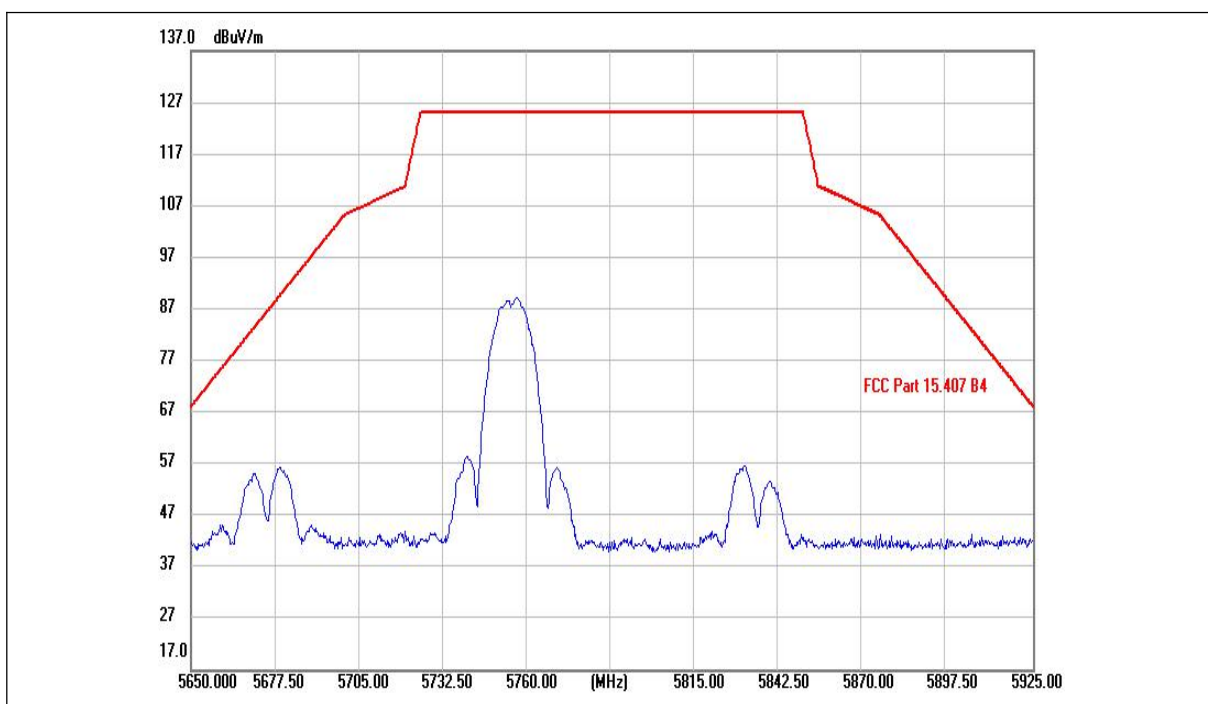


(802.11ac (HT40) _5310MHz, Antenna Vertical)

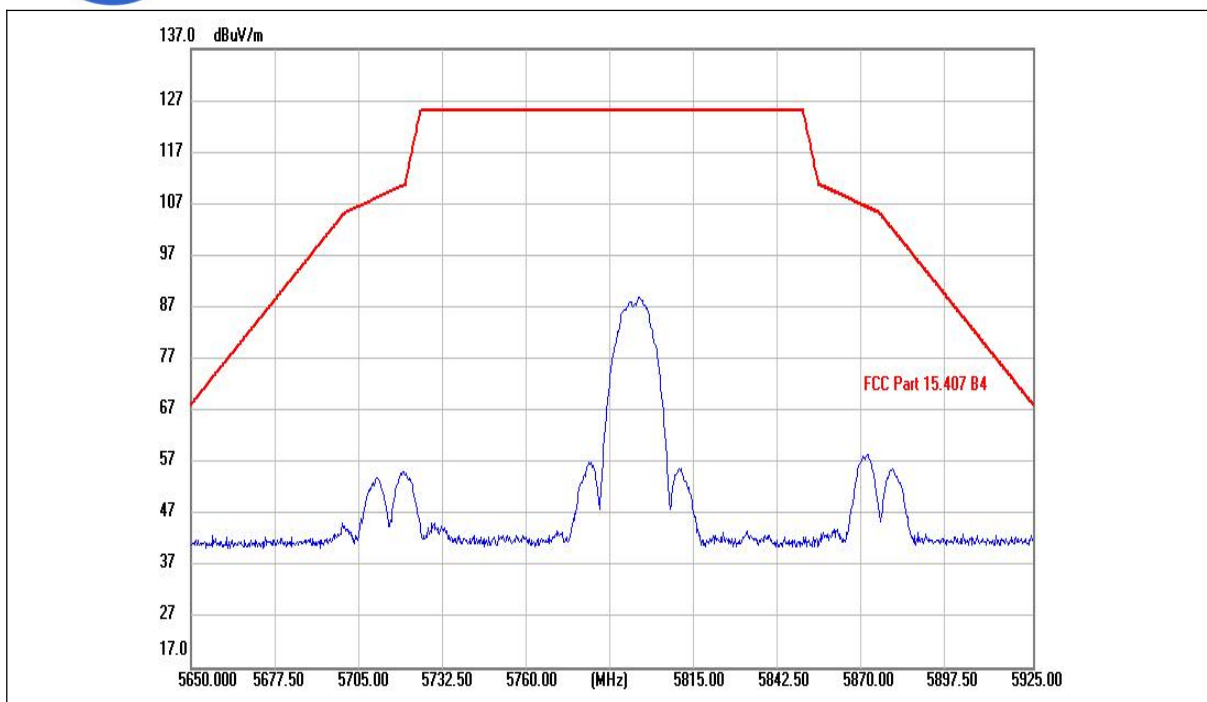
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5310.000	88.55	---	---	---	V	-2.88
5310.000	---	31.86	---	---	V	-2.88
5352.930	43.78	---	74.00	30.22	V	-2.51
5352.930	---	32.66	54.00	21.34	V	-2.51
5385.740	54.51	---	74.00	19.49	V	-2.35
5385.740	---	42.31	54.00	11.69	V	-2.35



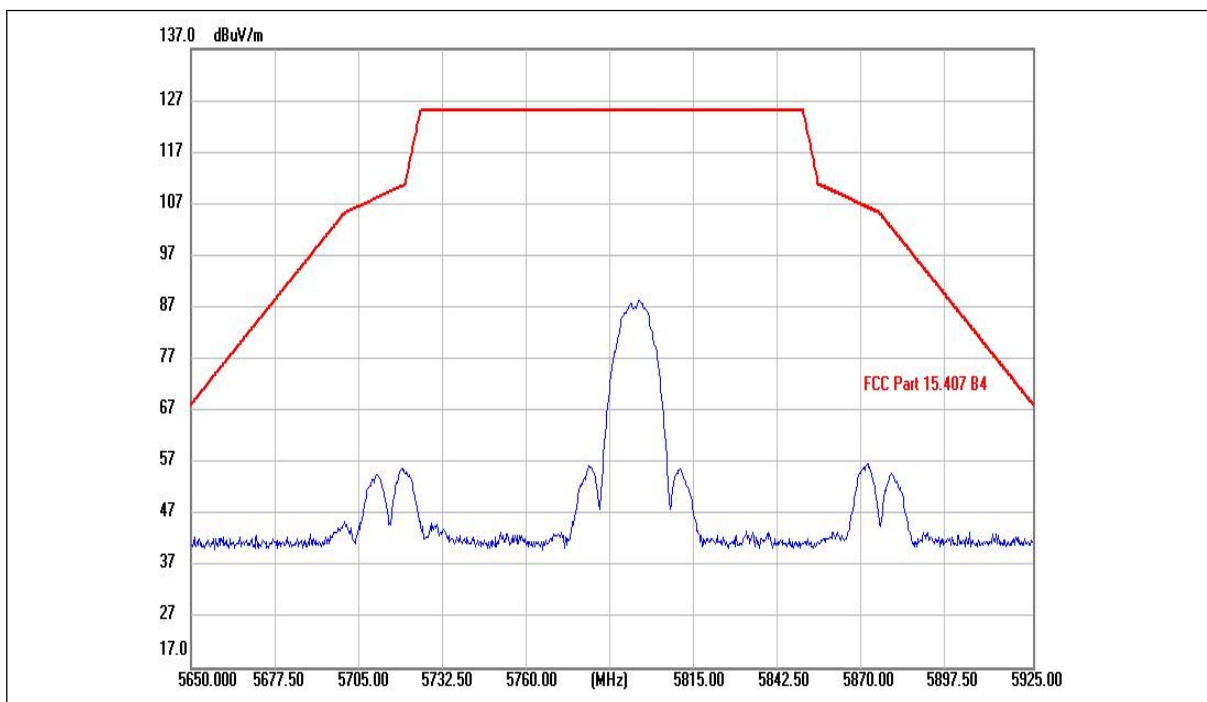
(802.11ac(HT40)_5775MHz, Antenna Horizontal)



(802.11ac(HT40)_5775MHz, Antenna Vertical)



(802.11ac(HT40)_5795MHz, Antenna Horizontal)



(802.11ac(HT40)_5795MHz, Antenna Vertical)



2.6. Frequency Stability

2.6.1. Requirement

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

2.6.2. Test Procedure

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C to 50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

2.6.3. Test Result

Frequency Stability Measurements for UNII Band 1 (Ch. 36)

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq Dev. (Hz)	Deviation (%)
100%	3.8	+20(Ref)	5179.981	-19000	-3.67
100%		-30	5179.978	-22000	-4.25
100%		-20	5179.986	-14000	-2.70
100%		-10	5179.972	-28000	-5.41
100%		0	5179.979	-21000	-4.05
100%		+10	5179.984	-16000	-3.09
100%		+20	5179.967	-33000	-6.37
100%		+30	5179.970	-30000	-5.79
100%		+40	5179.983	-17000	-3.28
100%		+50	5179.977	-23000	-4.44
85%	3.5	+20	5179.971	-29000	-5.60
115%	4.4	+20	5179.985	-15000	-2.90

**Frequency Stability Measurements for UNII Band 2A (Ch. 52)**

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq Dev. (Hz)	Deviation (%)
100%	3.8	+20(Ref)	5260.020	20000	3.80
100%		-30	5260.028	28000	5.32
100%		-20	5260.034	34000	6.46
100%		-10	5260.041	41000	7.79
100%		0	5260.037	37000	7.03
100%		+10	5260.029	29000	5.51
100%		+20	5260.013	13000	2.47
100%		+30	5260.028	28000	5.32
100%		+40	5260.032	32000	6.08
100%		+50	5260.039	39000	7.41
85%	3.5	+20	5260.026	26000	4.94
115%	4.4	+20	5260.024	24000	4.56

Frequency Stability Measurements for UNII Band 3 (Ch. 149)

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq Dev. (Hz)	Deviation (%)
100%	3.8	+20(Ref)	5745.048	48000	8.36
100%		-30	5745.041	41000	7.14
100%		-20	5745.036	36000	6.27
100%		-10	5745.049	49000	8.53
100%		0	5745.043	43000	7.48
100%		10	5745.035	35000	6.09
100%		20	5745.031	31000	5.40
100%		30	5745.044	44000	7.66
100%		40	5745.038	38000	6.61
100%		50	5745.042	42000	7.31
85%	3.5	20	5745.045	45000	7.83
115%	4.4	20	5745.037	37000	6.44

Note: Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

2.7. Conducted Emission

2.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

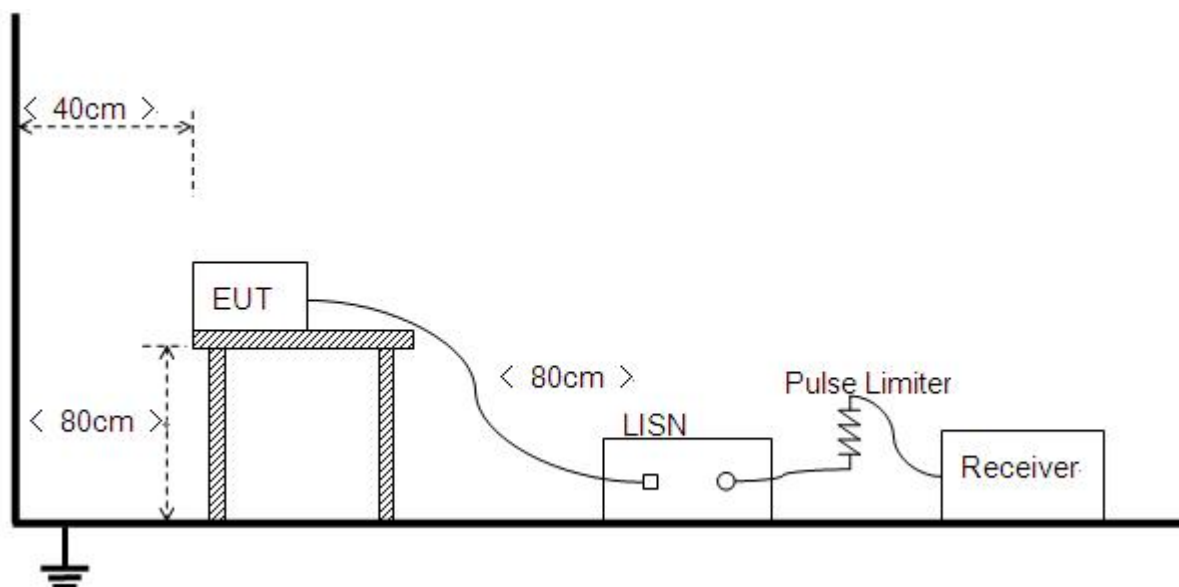
Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- The lower limit shall apply at the band edges.
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2. Test Description

A. Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.



2.7.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

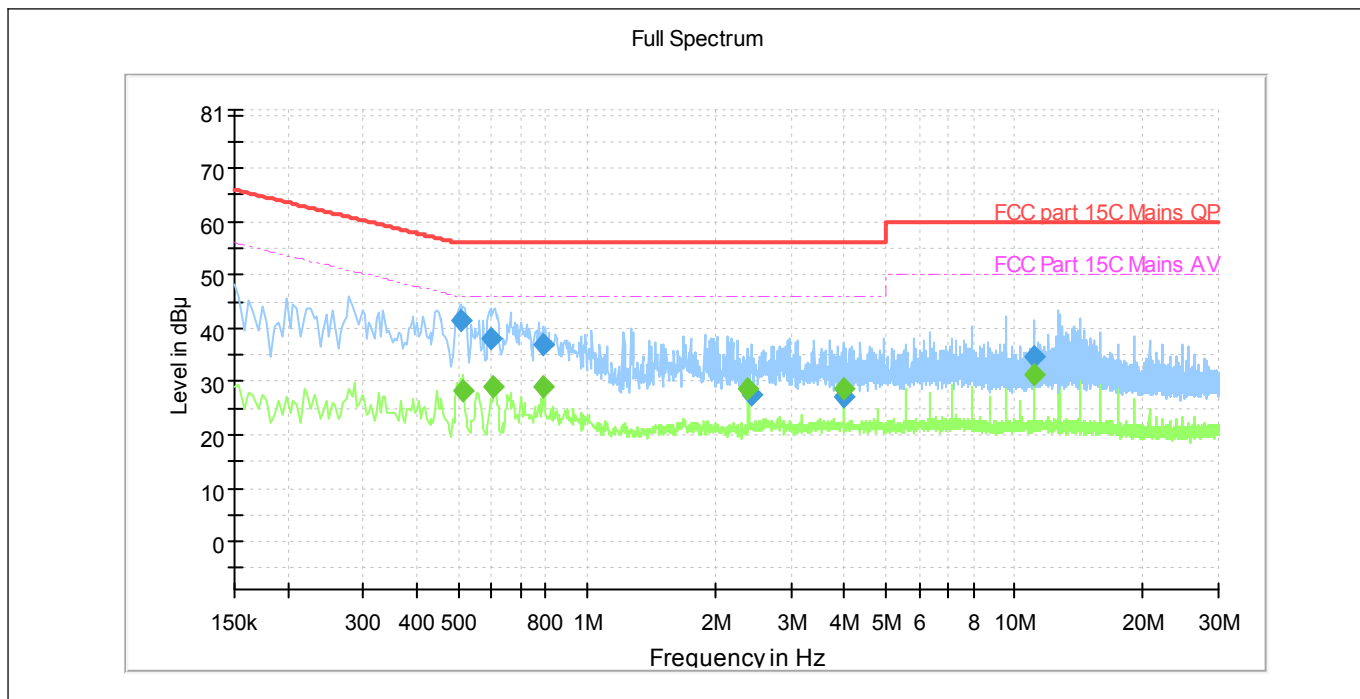
Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test setup:

The EUT configuration of the emission tests is Charging + Wlan 5G Link.

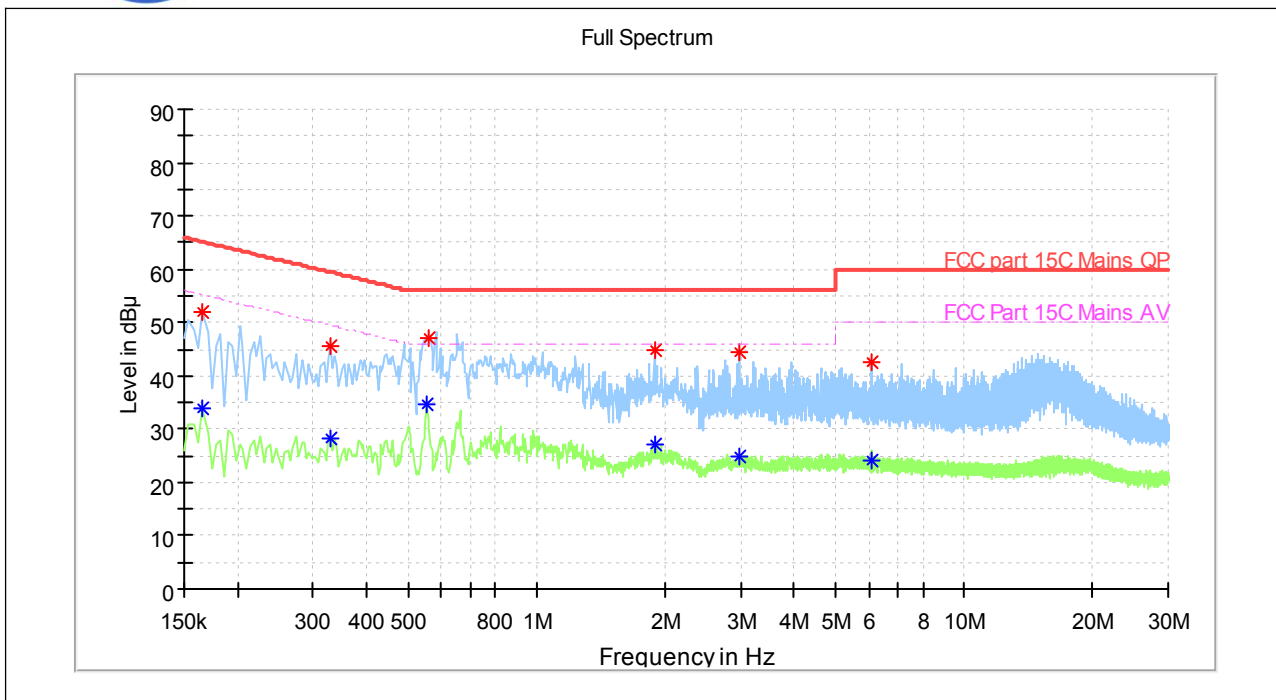
Note: The test voltage is AC 120V/60Hz.

A. Test Plots:



(Plot A: L Phase)

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.506000	44.64	---	56.00	11.36	L1	10.2
0.514000	---	31.27	46.00	14.73	L1	10.2
0.594000	43.74	---	56.00	12.26	L1	10.2
0.606000	---	29.22	46.00	16.78	L1	10.2
0.794000	---	29.53	46.00	16.47	L1	10.2
0.794000	40.19	---	56.00	15.81	L1	10.2
2.386000	---	28.20	46.00	17.80	L1	10.3
2.434000	36.92	---	56.00	19.08	L1	10.3
3.970000	37.20	---	56.00	18.80	L1	10.4
3.978000	---	28.03	46.00	17.97	L1	10.4
11.130000	41.43	---	60.00	18.57	L1	10.7
11.134000	---	31.85	50.00	18.15	L1	10.7



(Plot B: N Phase)

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.166000	---	33.93	55.16	21.23	N	10.2
0.166000	51.87	---	65.16	13.29	N	10.2
0.330000	---	28.08	49.45	21.38	N	10.2
0.330000	45.62	---	59.45	13.83	N	10.2
0.554000	---	34.52	46.00	11.48	N	10.2
0.558000	47.09	---	56.00	8.91	N	10.2
1.886000	44.77	---	56.00	11.23	N	10.3
1.894000	---	27.28	46.00	18.72	N	10.3
2.978000	44.36	---	56.00	11.64	N	10.4
2.982000	---	25.03	46.00	20.97	N	10.4
6.066000	---	24.19	50.00	25.81	N	10.5
6.070000	42.69	---	60.00	17.31	N	10.5

2.8. Radiated Emission

2.8.1. Requirement

The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (3) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

The following formula is used to convert the equipment isotropic radiated power(eirp) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \mu\text{V/m}$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

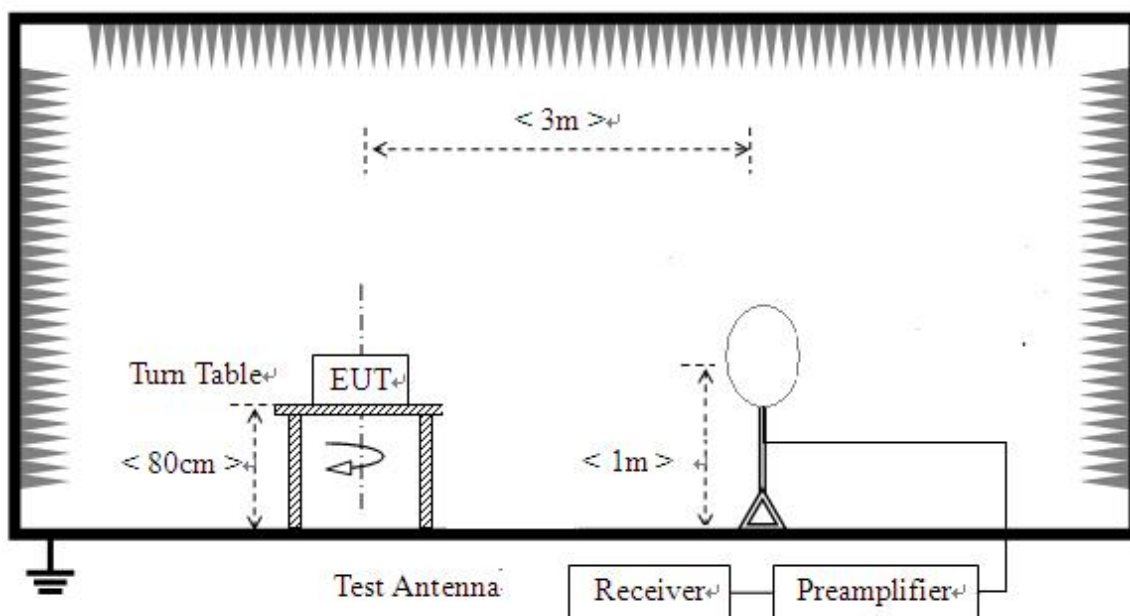
Note:

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

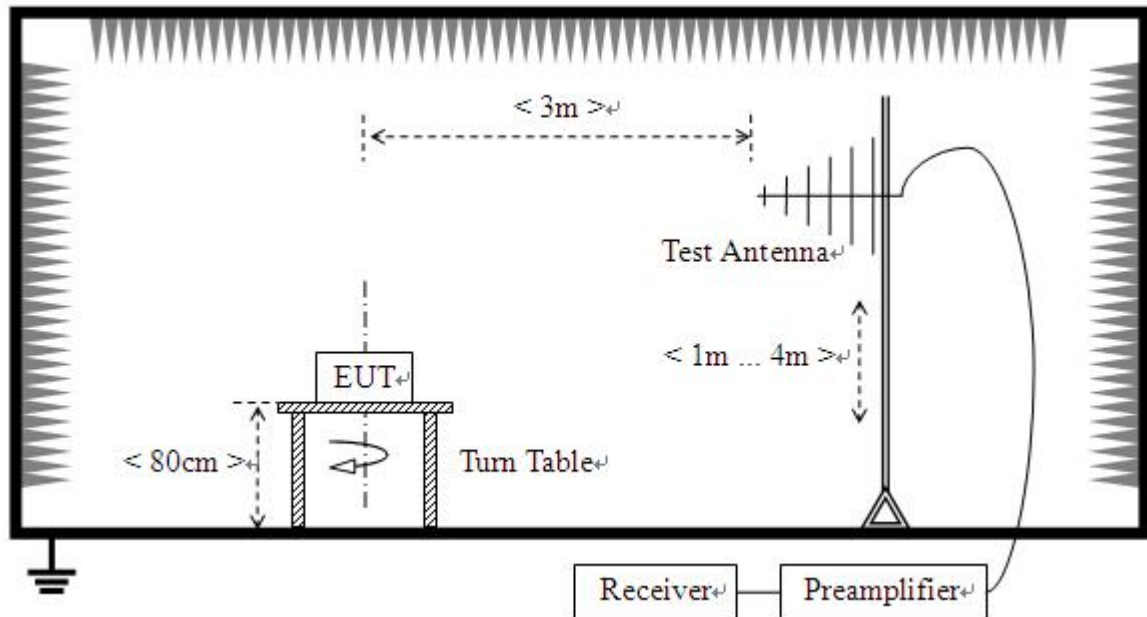
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

2.8.2. Test Description
A. Test Setup:

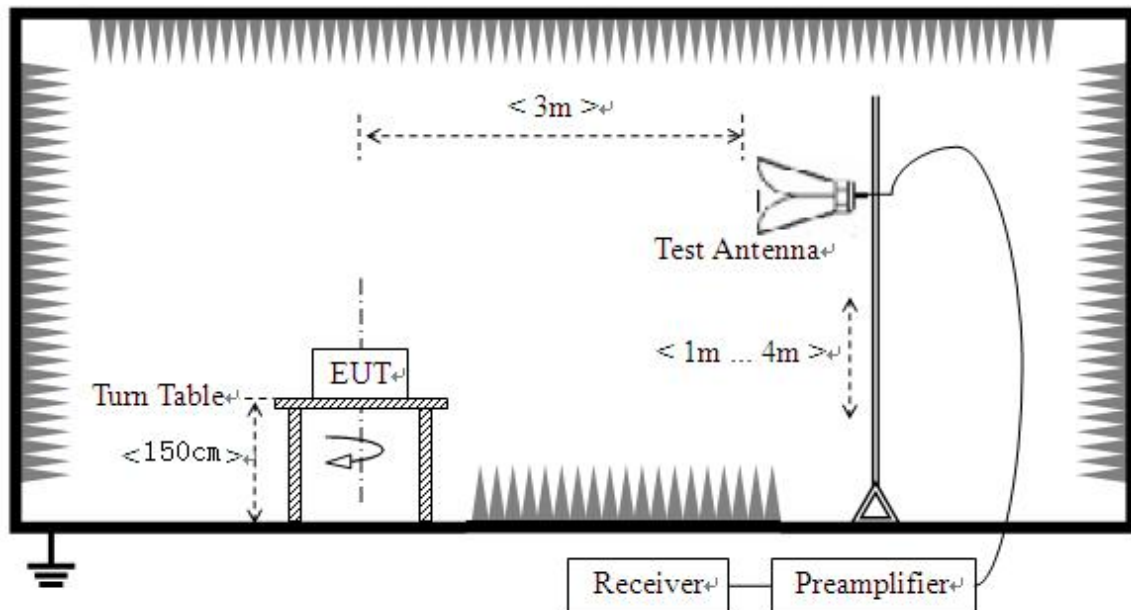
- 1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT



was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Place the test antenna at 3m away from area of the EUT, while keeping the test antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The test antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final test antenna elevation shall be that which maximizes the emissions. The test antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emission levels at both horizontal and vertical polarizations should be tested.

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.



- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

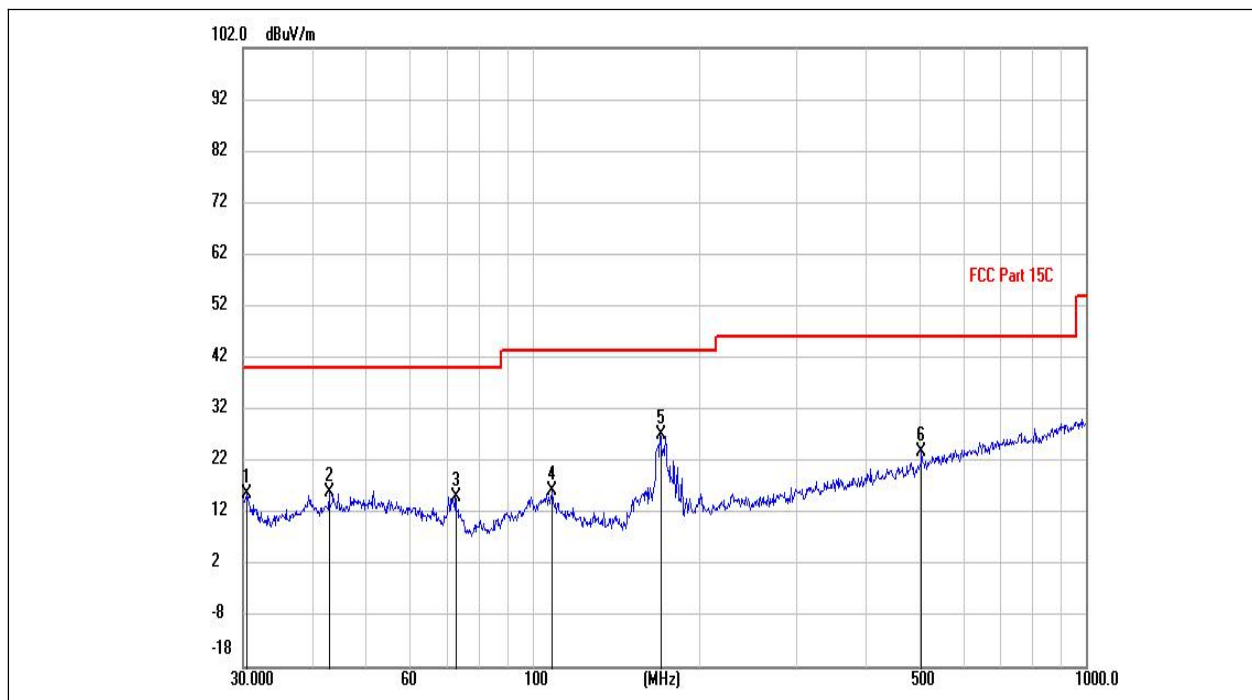
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasipeak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

2.8.3. Test Result

Note1: For the frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

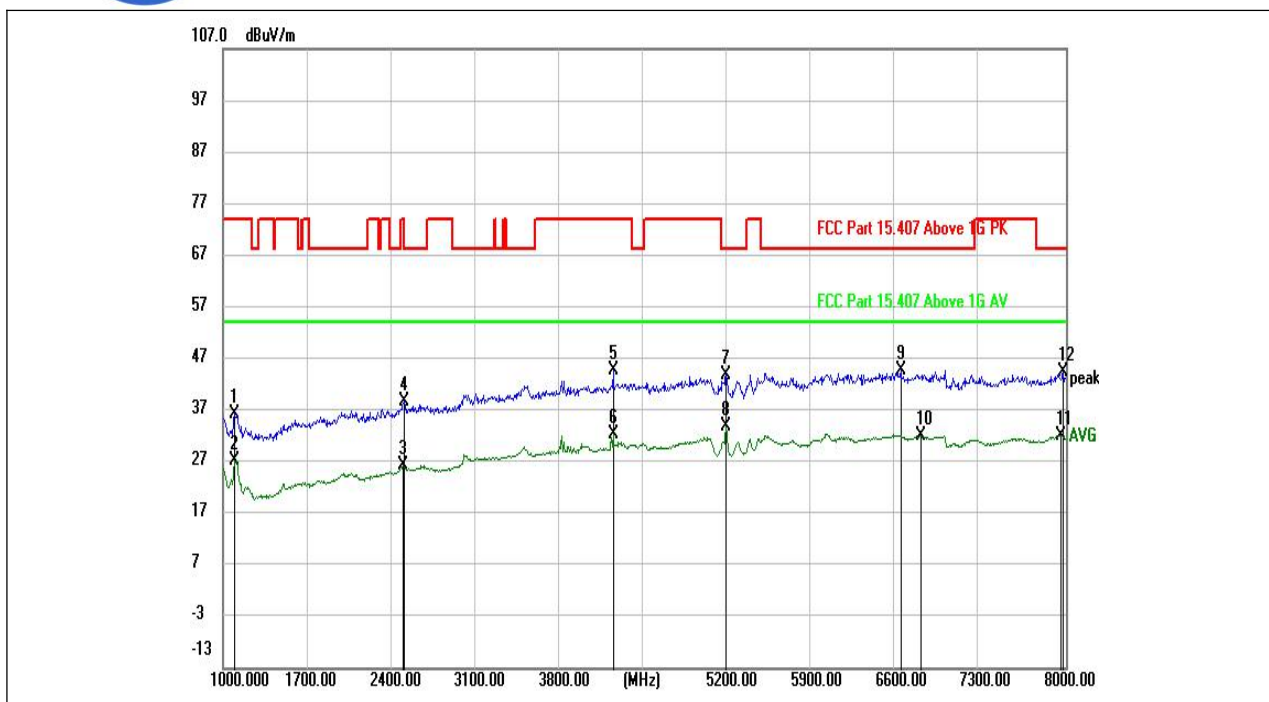
Note2: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

802.11a Test mode

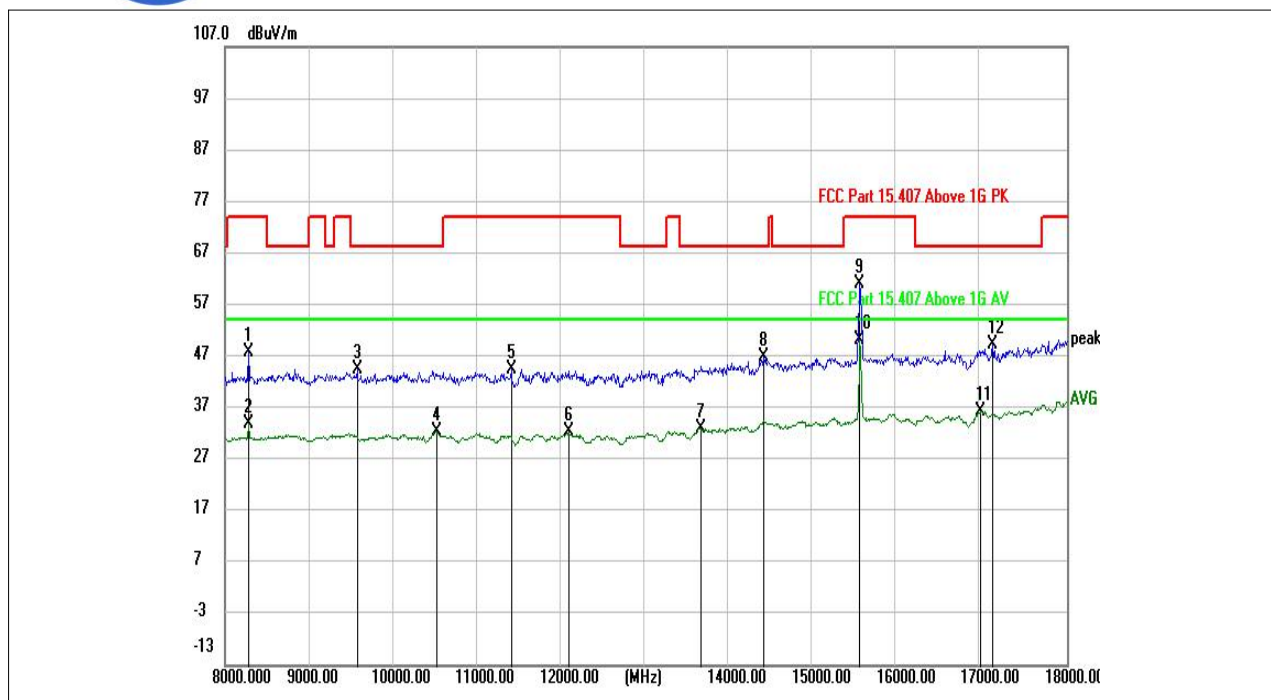


(802.11a _5180MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.5306	15.55	---	40.00	24.45	H	12.95
42.8998	15.81	---	40.00	24.19	H	15.22
72.5917	15.01	---	40.00	24.99	H	10.42
108.6470	16.08	---	43.50	27.42	H	14.70
170.1948	27.07	---	43.50	16.43	H	12.44
504.7062	23.89	---	46.00	22.11	H	22.00



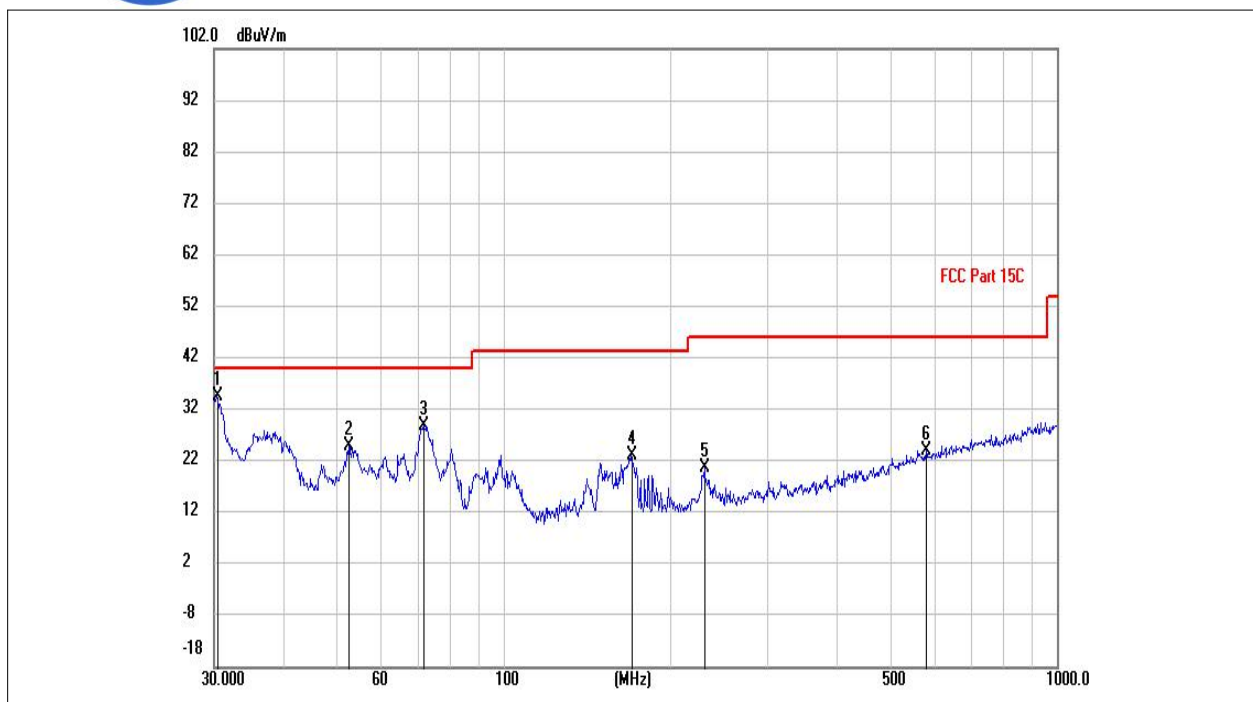
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.000	36.35	---	74.00	37.65	H	-17.61
1098.000	---	27.21	54.00	26.79	H	-17.61
2498.000	---	26.27	54.00	27.73	H	-11.31
2505.000	38.81	---	68.20	29.39	H	-10.99
4241.000	44.82	---	74.00	29.18	H	-4.40
4241.000	---	32.27	54.00	21.73	H	-4.40
5179.000	43.75	---	68.20	24.45	H	-3.00
5179.000	---	34.00	54.00	20.00	H	-3.00
6628.000	44.61	---	68.20	23.59	H	-1.20
6796.000	---	31.97	54.00	22.03	H	-1.48
7958.000	---	32.16	54.00	21.84	H	0.72
7979.000	44.31	---	68.20	23.89	H	0.36



(802.11a _5180MHz, Antenna Horizontal, 1GHz to 8GHz)

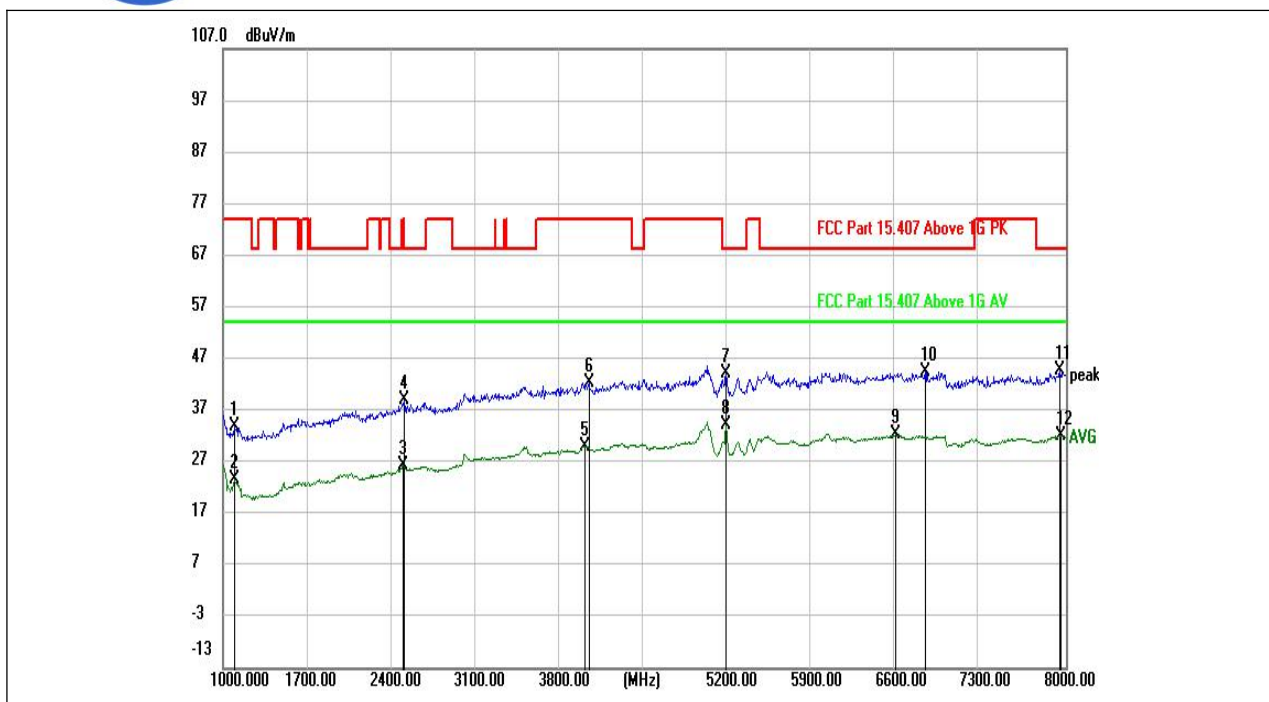
(802.11a _5180MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8280.000	47.63	---	74.00	26.37	H	1.41
8280.000	---	33.95	54.00	20.05	H	1.41
9570.000	44.41	---	68.20	23.79	H	2.20
10510.000	44.45	---	54.00	21.67	H	3.15
11400.000	---	32.33	74.00	29.55	H	3.80
12080.000	---	32.95	54.00	21.77	H	4.29
13650.000	---	32.95	54.00	21.05	H	7.21
14400.000	46.73	---	68.20	21.47	H	8.98
15540.000	60.88	---	74.00	13.12	H	11.21
15540.000	---	50.09	54.00	3.91	H	11.21
16970.000	---	36.30	54.00	17.70	H	11.46
17120.000	49.14	---	68.20	19.06	H	11.88



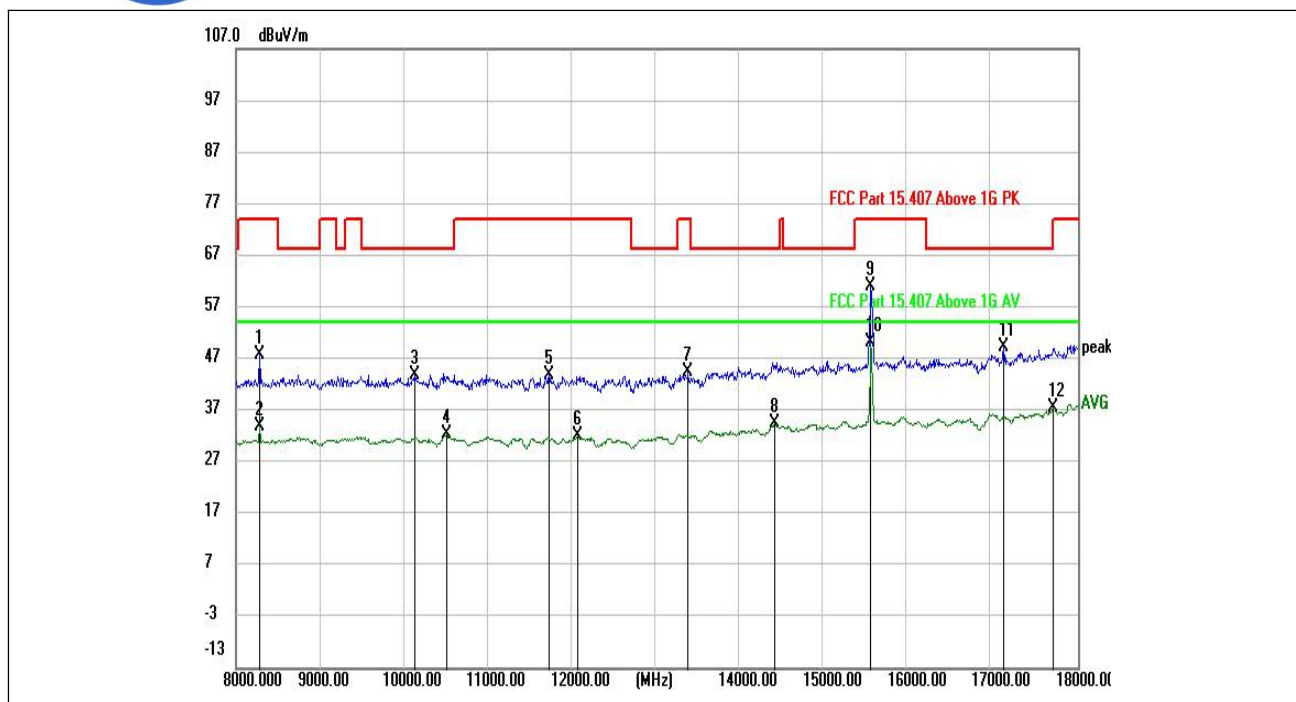
(802.11a _5180MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.3173	34.65	---	40.00	5.35	V	13.33
52.5753	25.01	---	40.00	14.99	V	15.39
71.8320	28.99	---	40.00	11.01	V	10.69
170.1948	23.04	---	43.50	20.46	V	12.44
230.9068	20.70	---	46.00	25.30	V	14.40
580.7026	24.11	---	46.00	21.89	V	23.06



(802.11a _5180MHz, Antenna Vertical , 1GHz to 8GHz)

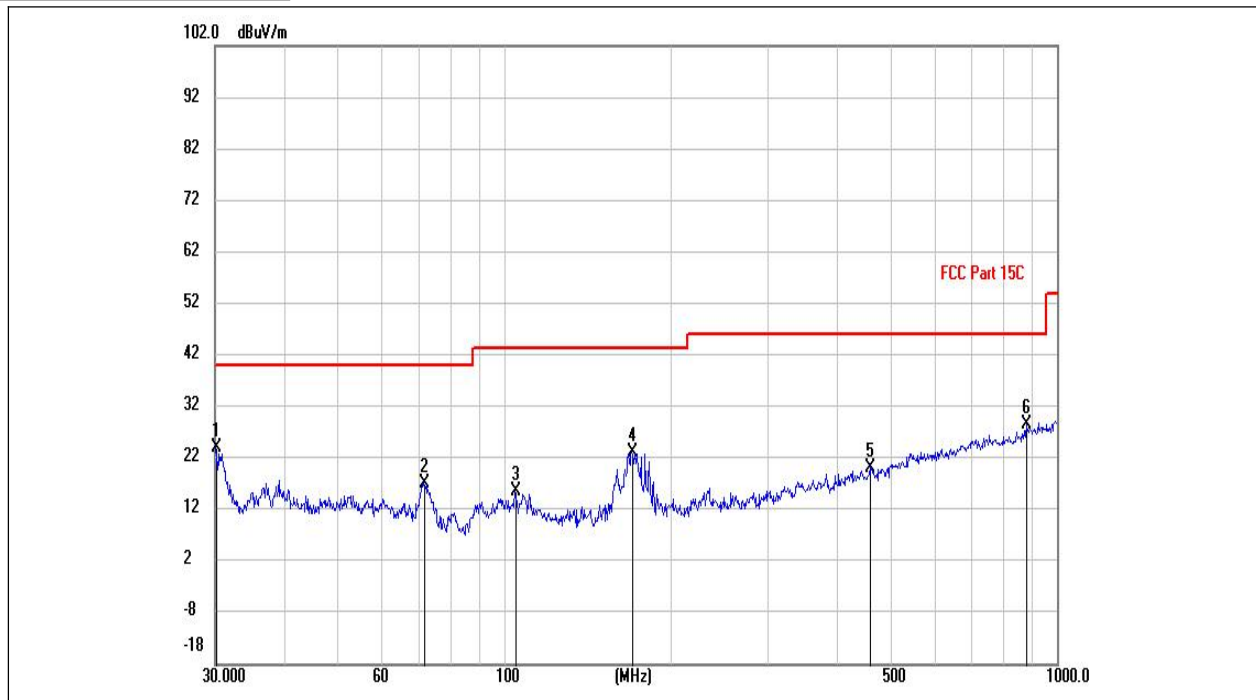
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.000	33.76	---	74.00	40.24	V	-17.61
1098.000	---	23.62	54.00	30.38	V	-17.61
2498.000	---	26.41	54.00	27.59	V	-9.63
2505.000	38.99	---	68.20	29.21	V	-9.95
4010.000	---	30.08	54.00	23.92	V	-4.05
4038.000	42.41	---	74.00	31.59	V	-4.58
5179.000	44.11	---	68.20	24.09	V	-3.00
5179.000	---	34.19	54.00	19.81	V	-3.00
6586.000	---	32.26	54.00	21.74	V	-0.82
6831.000	44.37	---	68.20	23.83	V	-1.49
7951.000	44.64	---	68.20	23.56	V	0.88
7958.000	---	32.22	54.00	21.78	V	0.88



(802.11a _5180MHz, Antenna Vertical, 8GHz to 18GHz)

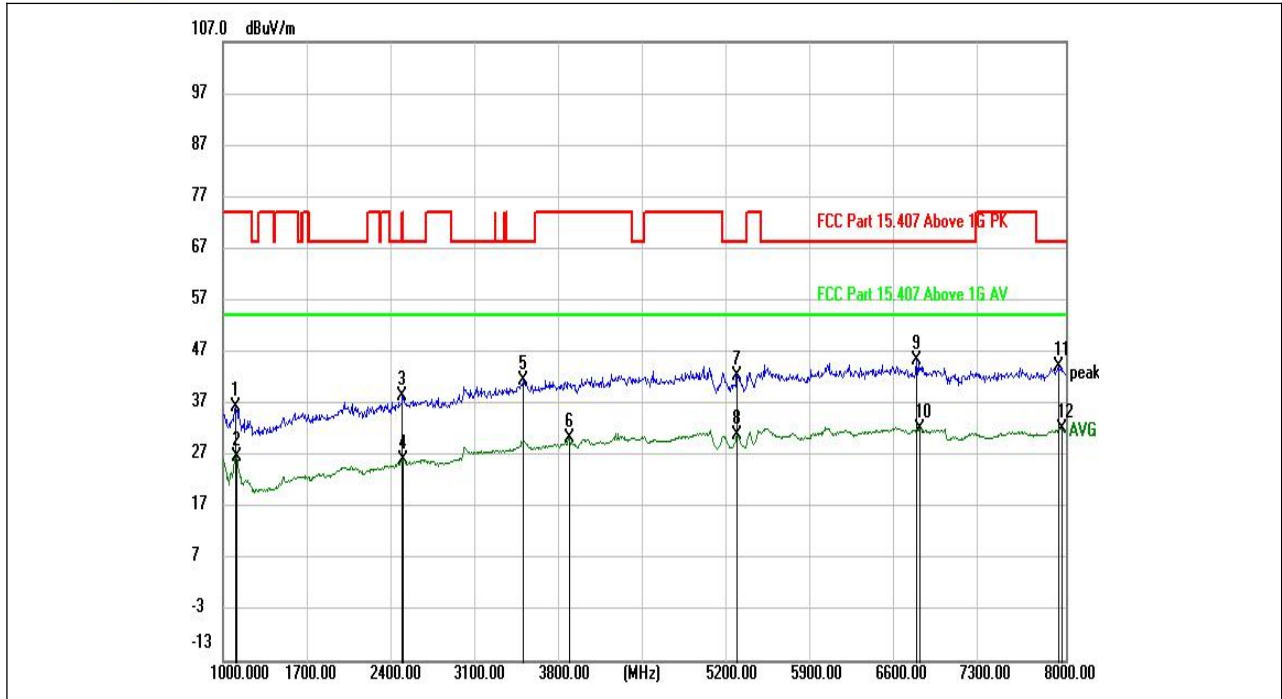
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8280.000	47.63	---	74.00	26.37	V	1.41
8280.000	---	33.95	54.00	20.05	V	1.41
10130.000	43.73	---	68.20	24.47	V	2.65
10500.000	---	32.29	54.00	21.71	V	3.99
11720.000	43.90	---	74.00	30.10	V	4.05
12060.000	---	32.08	54.00	21.92	V	4.99
13370.000	44.38	---	74.00	29.62	V	6.62
14400.000	---	34.36	54.00	19.64	V	8.98
15540.000	60.88	---	74.00	13.12	V	10.67
15540.000	---	50.09	54.00	3.91	V	10.67
17120.000	49.14	---	68.20	19.06	V	12.60
17700.000	---	37.52	54.00	16.48	V	14.37

Plots for Channel = 44



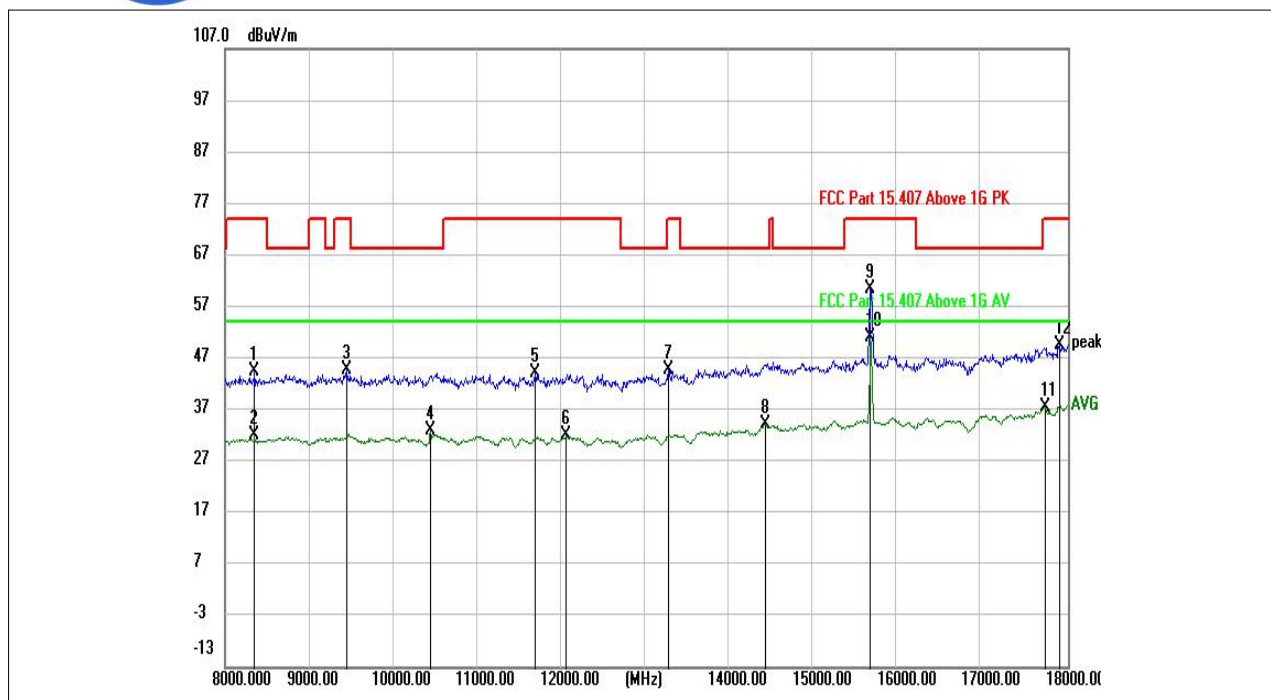
(802.11a _5220MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.1054	23.94	---	40.00	16.06	H	13.71
71.5806	17.11	---	40.00	22.89	H	10.89
104.5361	15.51	---	43.50	27.99	H	14.22
170.1948	23.02	---	43.50	20.48	H	12.44
459.1144	20.29	---	46.00	25.71	H	21.02
881.4067	28.62	---	46.00	17.38	H	27.71



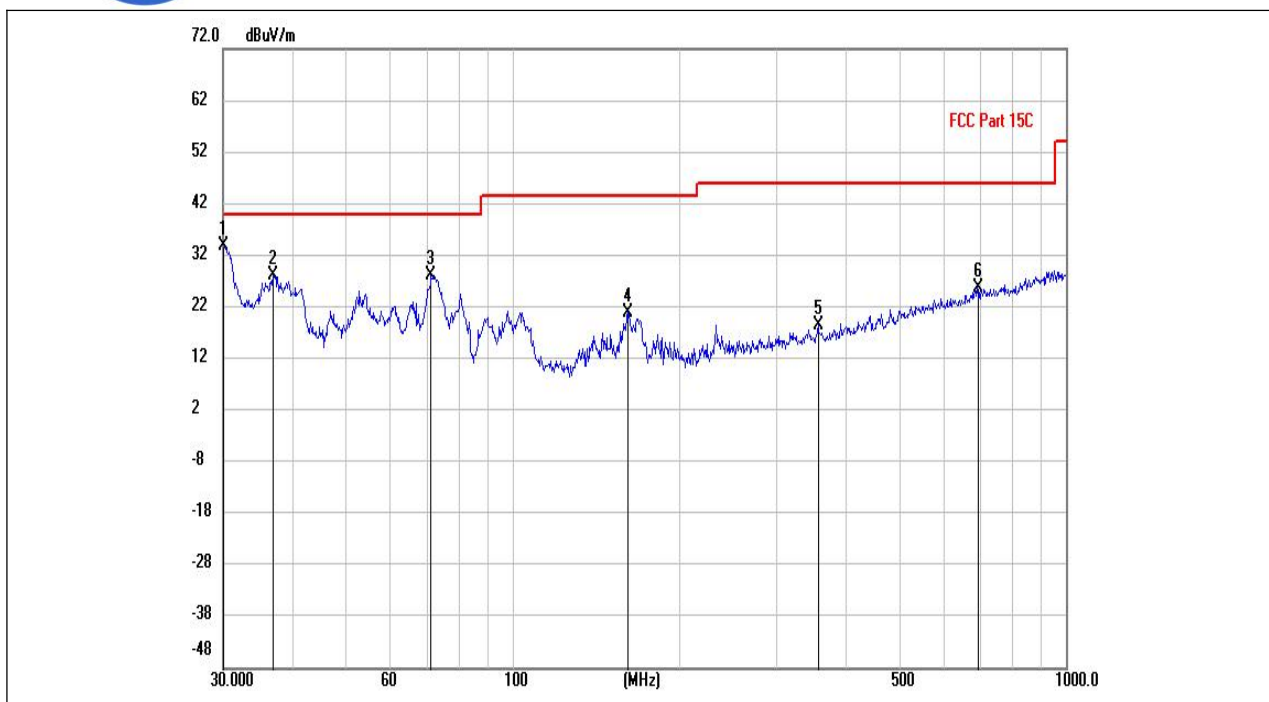
(802.11a _5220MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1105.000	36.28	---	74.00	37.72	H	-17.56
1112.000	---	26.75	54.00	27.25	H	-17.53
2491.000	38.37	---	74.00	35.63	H	-10.67
2498.000	---	26.19	54.00	27.81	H	-11.31
3492.000	41.35	---	68.20	26.85	H	-7.85
3877.000	---	30.39	54.00	23.61	H	-5.38
5270.000	42.31	---	68.20	25.89	H	-2.95
5270.000	---	30.91	54.00	23.09	H	-2.95
6761.000	45.25	---	68.20	22.95	H	-1.41
6789.000	---	32.19	54.00	21.81	H	-1.46
7937.000	44.22	---	68.20	23.98	H	0.56
7965.000	---	32.22	54.00	21.78	H	0.61



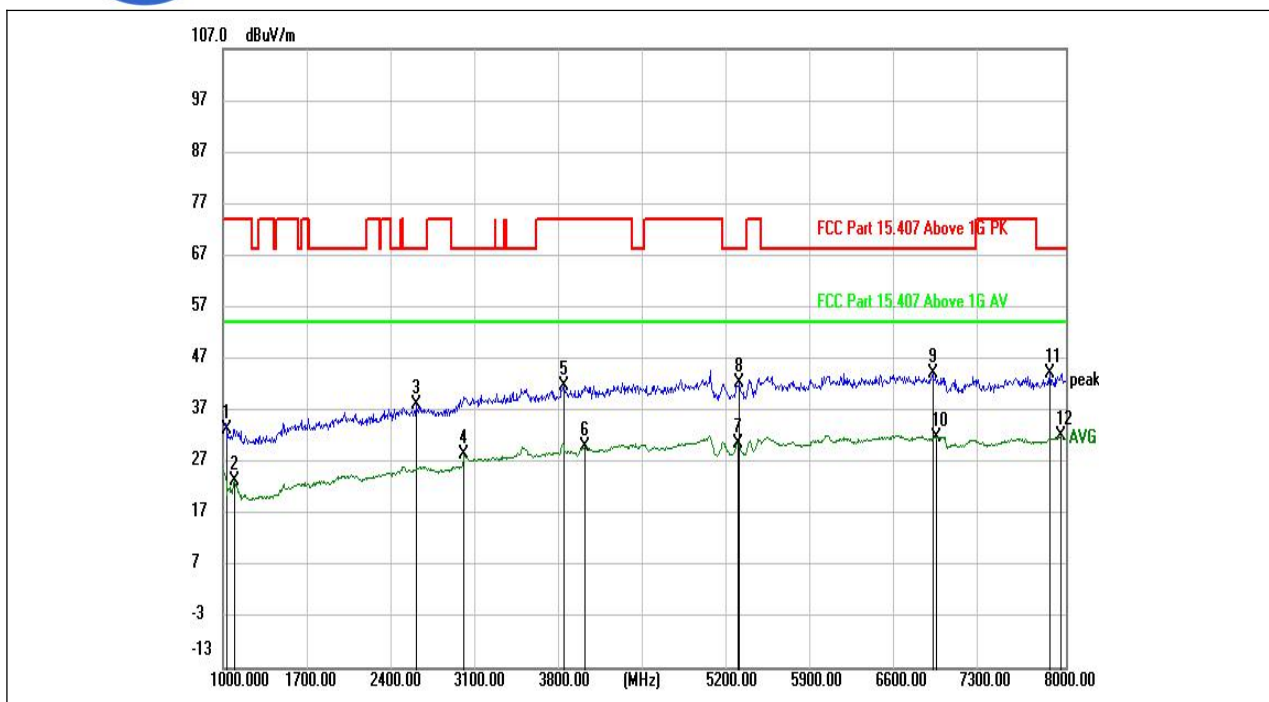
(802.11a _5220MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8350.000	44.51	---	74.00	29.49	H	1.28
8350.000	---	32.11	54.00	21.89	H	1.28
9450.000	44.71	---	74.00	29.29	H	1.96
10440.000	---	32.90	54.00	21.10	H	2.81
11680.000	44.01	---	74.00	29.99	H	3.81
12050.000	---	31.93	54.00	22.07	H	4.58
13260.000	44.59	---	74.00	29.41	H	5.91
14410.000	---	34.26	54.00	19.74	H	8.84
15660.000	60.47	---	74.00	13.53	H	11.12
15660.000	---	50.93	54.00	3.07	H	11.12
17730.000	---	37.40	54.00	16.60	H	14.66
17900.000	49.51	---	74.00	24.49	H	15.01



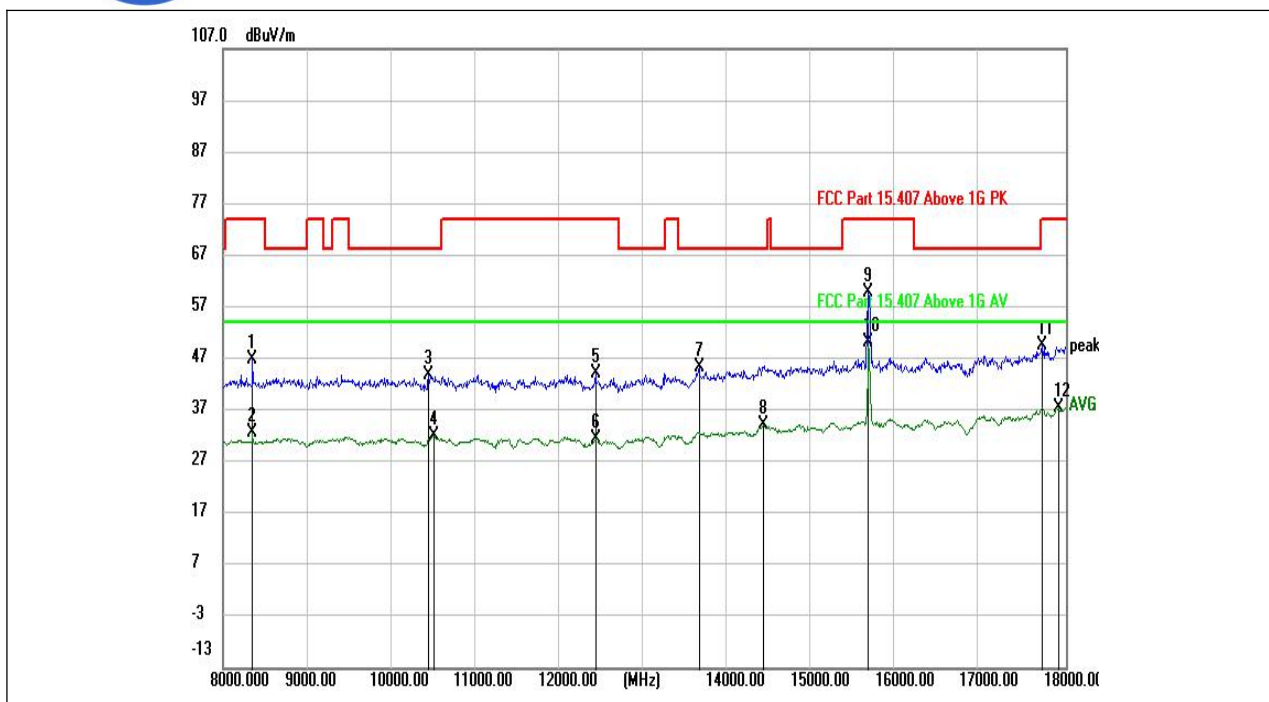
(802.11a _5220MHz, Antenna Vertical , 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.0000	33.97	---	40.00	6.03	V	13.90
36.8953	28.11	---	40.00	11.89	V	13.54
71.3300	28.22	---	40.00	11.78	V	11.08
161.4742	20.92	---	43.50	22.58	V	11.95
356.6758	18.41	---	46.00	27.59	V	18.31
691.9867	25.66	---	46.00	20.34	V	24.86



(802.11a _5220MHz, Antenna Vertical , 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1028.000	33.36	---	74.00	40.64	V	-17.86
1098.000	---	23.43	54.00	30.57	V	-17.61
2603.000	38.01	---	74.00	30.19	V	-10.48
3002.000	---	28.37	54.00	25.63	V	-6.96
3835.000	41.77	---	74.00	32.23	V	-5.65
4010.000	---	29.87	54.00	24.13	V	-4.05
5277.000	---	30.61	74.00	23.39	V	-2.94
5291.000	42.39	---	54.00	25.81	V	-2.90
6894.000	44.13	---	74.00	24.07	V	-1.18
6929.000	---	31.82	54.00	22.18	V	-1.22
7867.000	44.26	---	54.00	23.94	V	0.11
7958.000	---	32.14	74.00	21.86	V	0.88

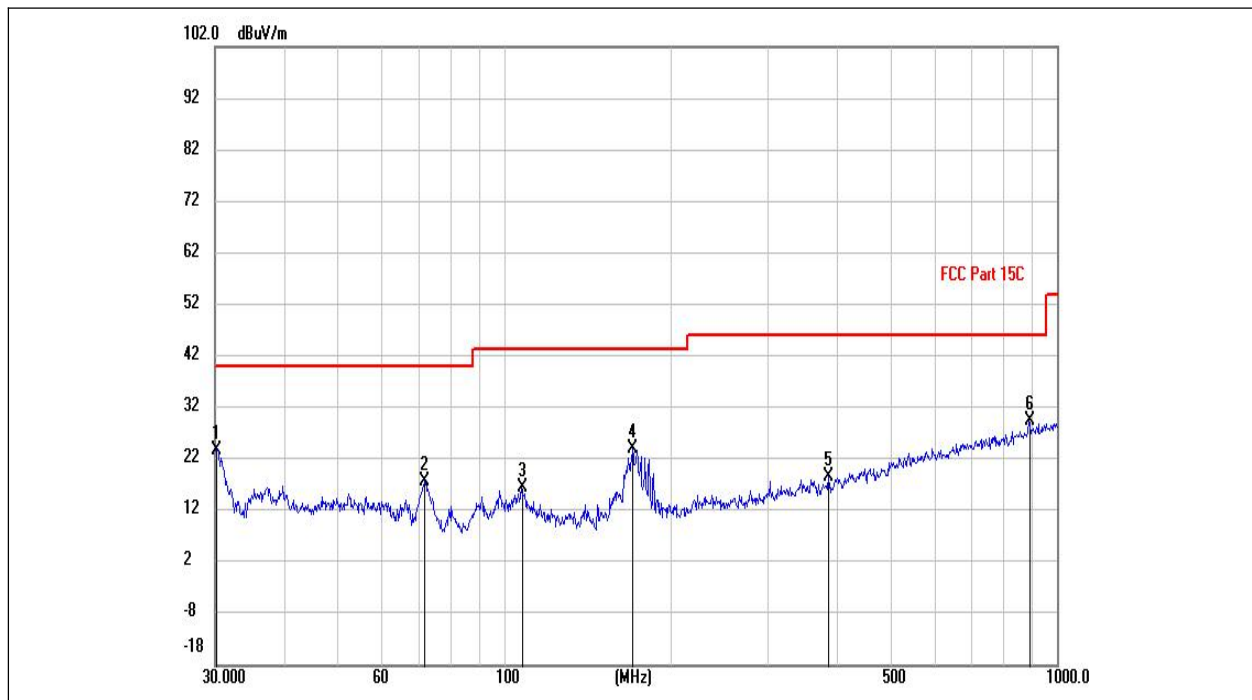


(802.11a _5220MHz, Antenna Vertical , 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8350.000	46.85	---	74.00	27.15	V	1.28
8350.000	---	32.70	54.00	21.30	V	1.28
10440.000	43.72	---	68.20	24.48	V	3.13
10500.000	---	32.00	54.00	22.00	V	3.99
12420.000	44.13	---	74.00	29.87	V	4.42
12430.000	---	31.36	54.00	22.64	V	4.47
13650.000	45.24	---	68.20	22.96	V	7.21
14410.000	---	34.25	54.00	19.75	V	8.96
15660.000	59.76	---	74.00	14.24	V	11.12
15660.000	---	50.07	54.00	3.93	V	11.12
17720.000	49.67	---	74.00	24.33	V	14.57
17910.000	---	37.58	54.00	16.42	V	15.28

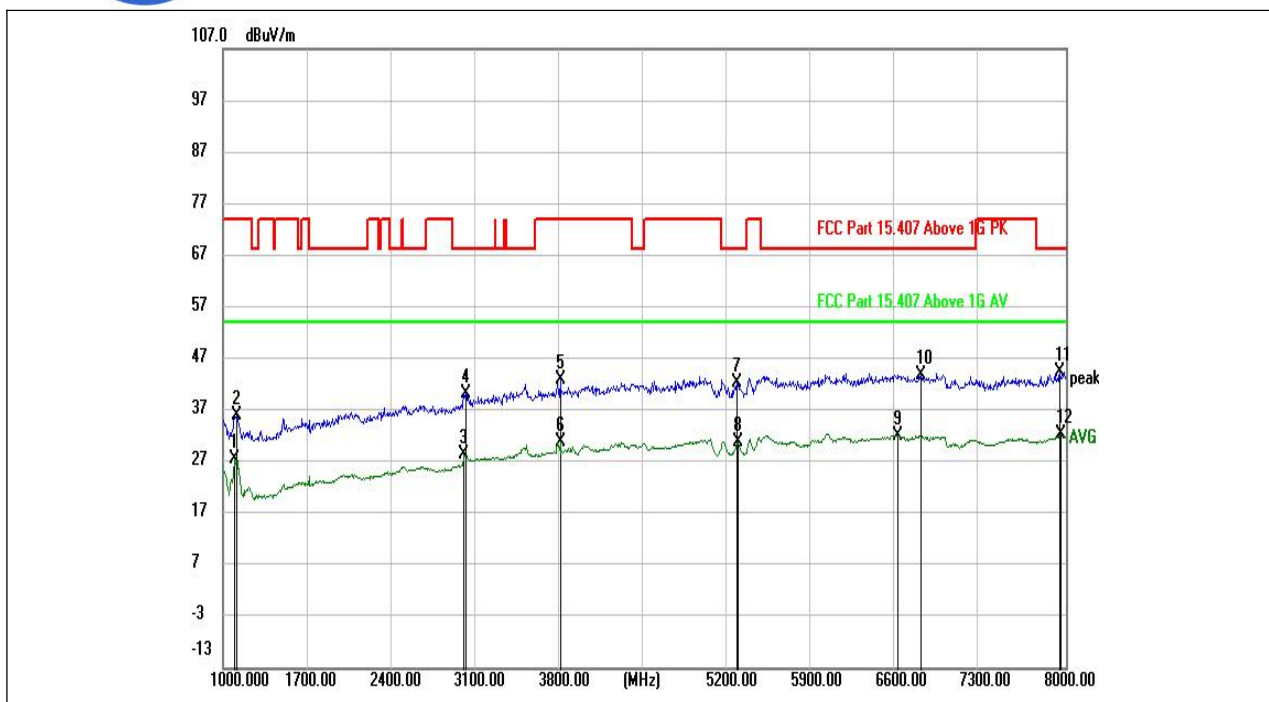


Plot for Channel = 48



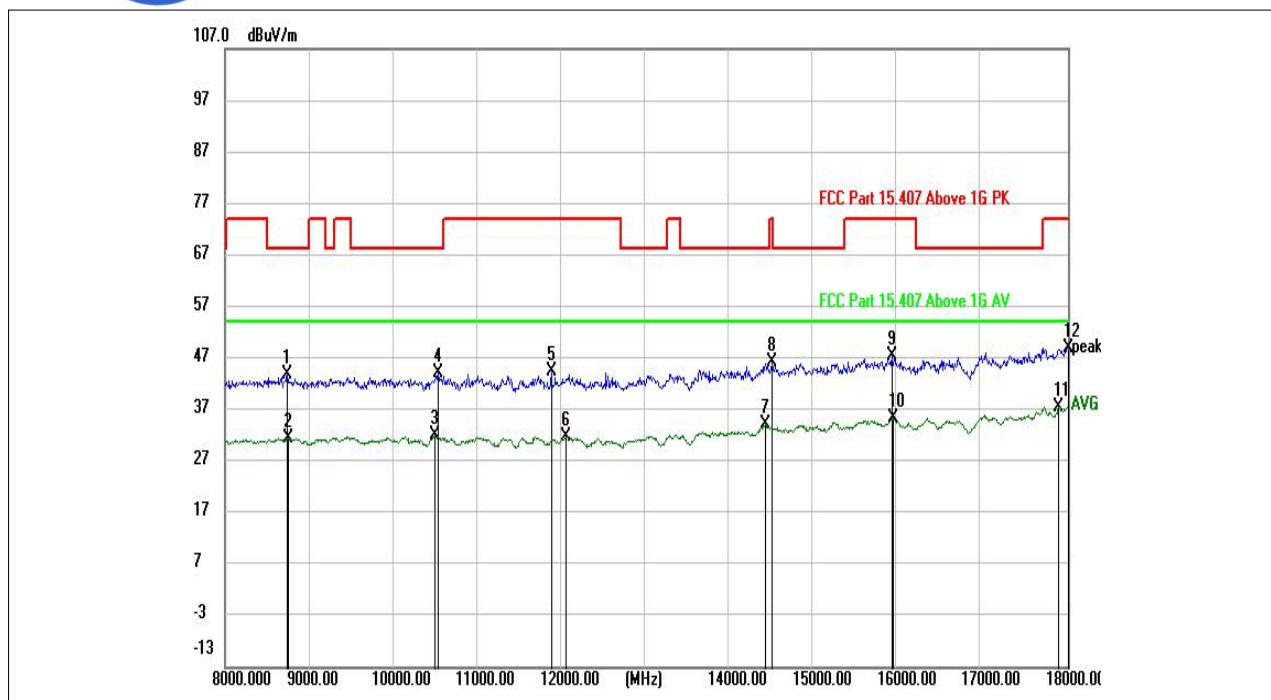
(802.11a _5240MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.2111	23.80	---	40.00	16.20	H	13.52
71.8320	17.86	---	40.00	22.14	H	10.69
107.5101	16.46	---	43.50	27.04	H	14.51
170.7926	24.20	---	43.50	19.30	H	12.28
386.6338	18.64	---	46.00	27.36	H	18.43
890.7278	29.41	---	46.00	16.59	H	27.86



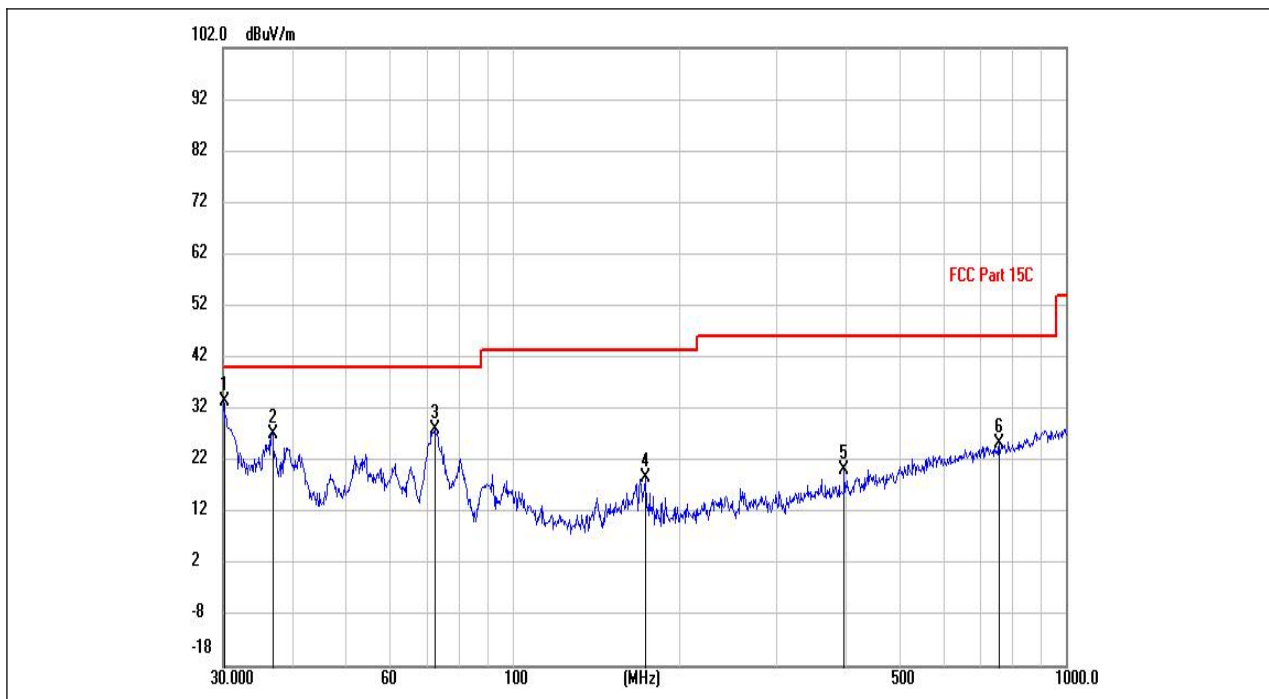
(802.11a _5240MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.000	---	27.51	54.00	26.49	H	-17.61
1112.000	36.13	---	74.00	37.87	H	-17.53
3002.000	---	28.45	54.00	25.55	H	-9.17
3016.000	40.21	---	68.20	27.99	H	-8.94
3800.000	42.97	---	74.00	31.03	H	-5.85
3800.000	---	30.91	54.00	23.09	H	-5.85
5270.000	42.42	---	68.20	25.78	H	-2.95
5277.000	---	30.80	54.00	23.20	H	-2.94
6600.000	---	32.08	54.00	21.92	H	-0.90
6796.000	43.69	---	68.20	24.51	H	-1.48
7951.000	44.30	---	68.20	23.90	H	0.73
7958.000	---	32.29	54.00	21.71	H	0.72



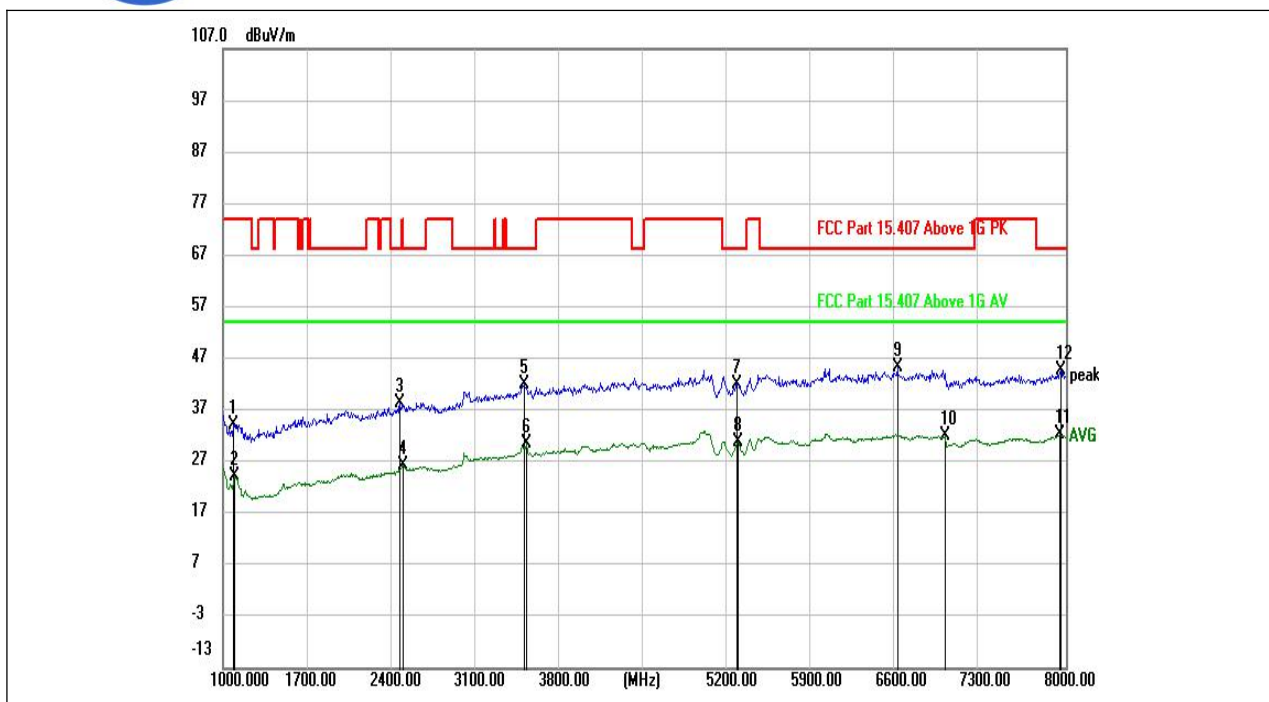
(802.11a _5240MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8740.000	43.81	---	68.20	24.39	H	1.67
8750.000	---	31.61	54.00	22.39	H	1.66
10490.000	---	32.08	54.00	21.92	H	3.13
10530.000	44.13	---	68.20	24.07	H	2.98
11870.000	44.51	---	74.00	29.49	H	4.04
12050.000	---	31.79	54.00	22.21	H	4.58
14410.000	---	34.27	54.00	19.73	H	8.84
14490.000	46.22	---	74.00	27.78	H	7.98
15910.000	47.39	---	74.00	26.61	H	11.18
15930.000	---	35.28	54.00	18.72	H	11.32
17890.000	---	37.53	54.00	16.47	H	15.24
18000.000	---	49.09	74.00	24.91	H	15.00



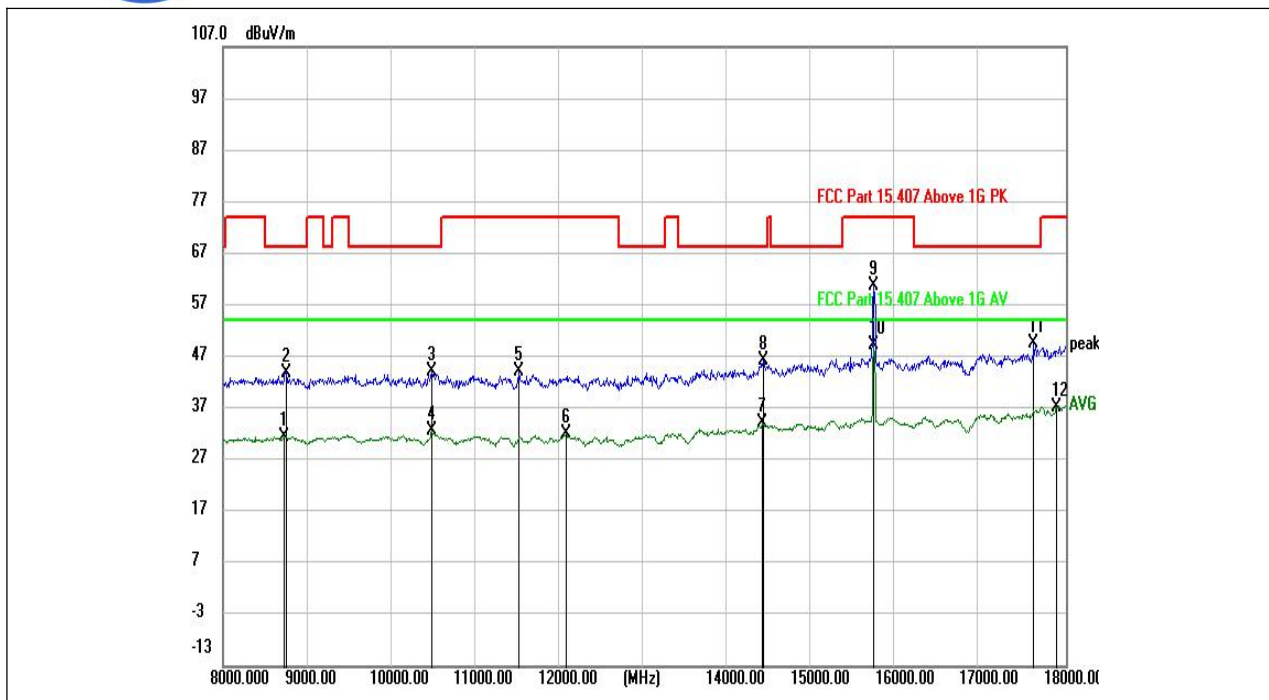
(802.11a _5240MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.1054	33.53	---	40.00	6.47	V	13.71
36.8953	27.08	---	40.00	12.92	V	13.54
72.3376	27.99	---	40.00	12.01	V	10.48
173.8135	18.76	---	43.50	24.74	V	11.67
397.6334	20.08	---	46.00	25.92	V	19.43
758.0408	25.26	---	46.00	20.74	V	26.17



(802.11a_5240MHz, Antenna Vertical, 1GHz to 8GHz)

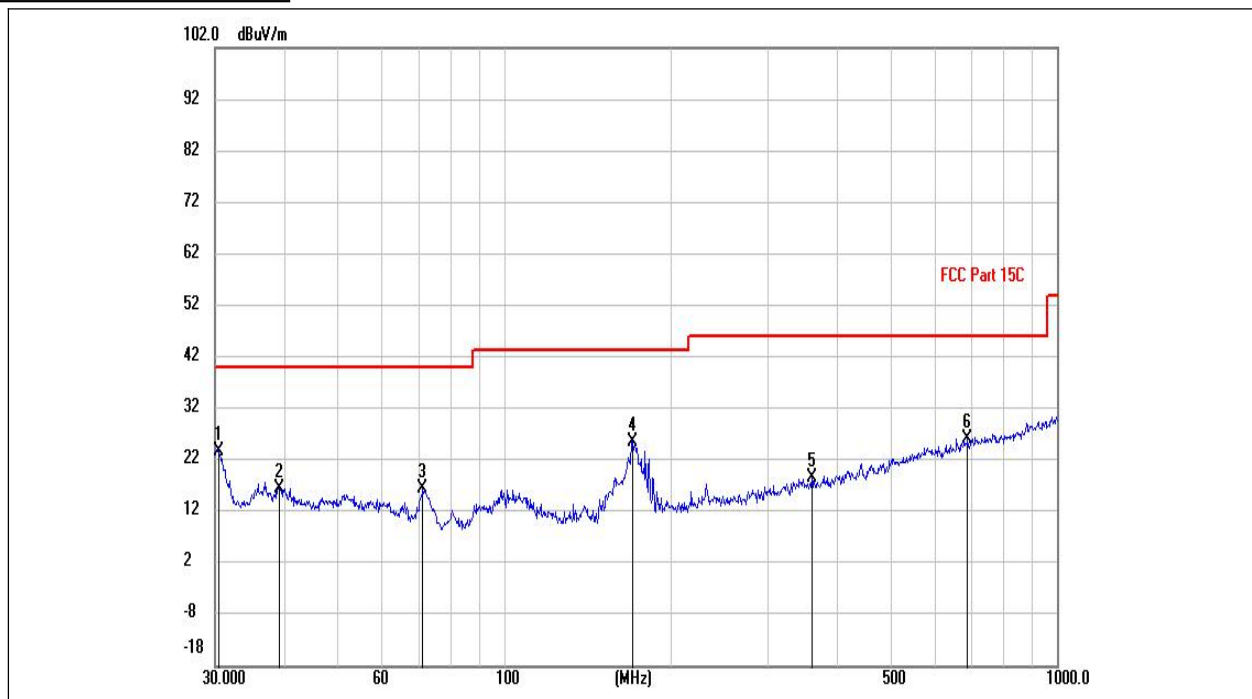
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1084.000	34.29	---	74.00	39.71	V	-17.85
1098.000	---	24.18	54.00	29.82	V	-17.61
2470.000	38.51	---	68.20	29.69	V	-10.89
2498.000	---	26.27	54.00	27.73	V	-9.63
3506.000	41.89	---	68.20	26.31	V	-5.42
3520.000	---	30.47	54.00	23.53	V	-5.87
5270.000	42.13	---	68.20	26.07	V	-2.95
5277.000	---	30.85	54.00	23.15	V	-2.94
6600.000	45.41	---	68.20	22.79	V	-0.90
6999.000	---	32.05	54.00	21.95	V	-1.20
7951.000	---	32.29	54.00	21.71	V	0.88
7958.000	44.63	44.63	68.20	23.57	V	0.88



(802.11a _5240MHz, Antenna Vertical, 8GHz to 18GHz)

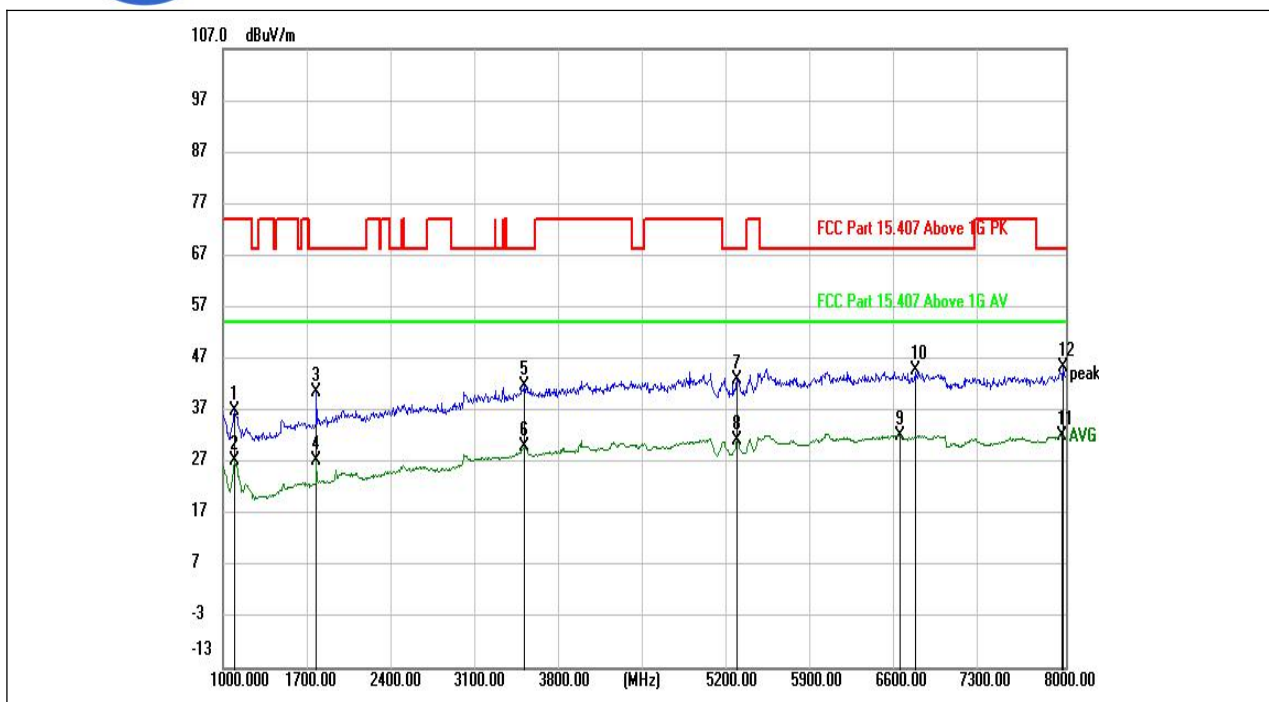
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8730.000	---	31.56	54.00	22.44	V	1.69
8750.000	43.90	---	68.20	24.30	V	1.66
10480.000	44.03	---	68.20	24.17	V	3.71
10480.000	---	32.67	54.00	21.33	V	3.71
11510.000	44.18	---	74.00	29.82	V	3.93
12070.000	---	32.11	54.00	21.89	V	4.85
14400.000	---	34.04	54.00	19.96	V	8.98
14410.000	46.23	---	68.20	21.97	V	8.96
15720.000	60.84	---	74.00	13.16	V	10.70
15720.000	---	49.17	54.00	4.83	V	10.70
17620.000	49.44	---	68.20	18.76	V	13.55
17890.000	---	37.26	54.00	16.74	V	15.64

Plots for Channel = 52



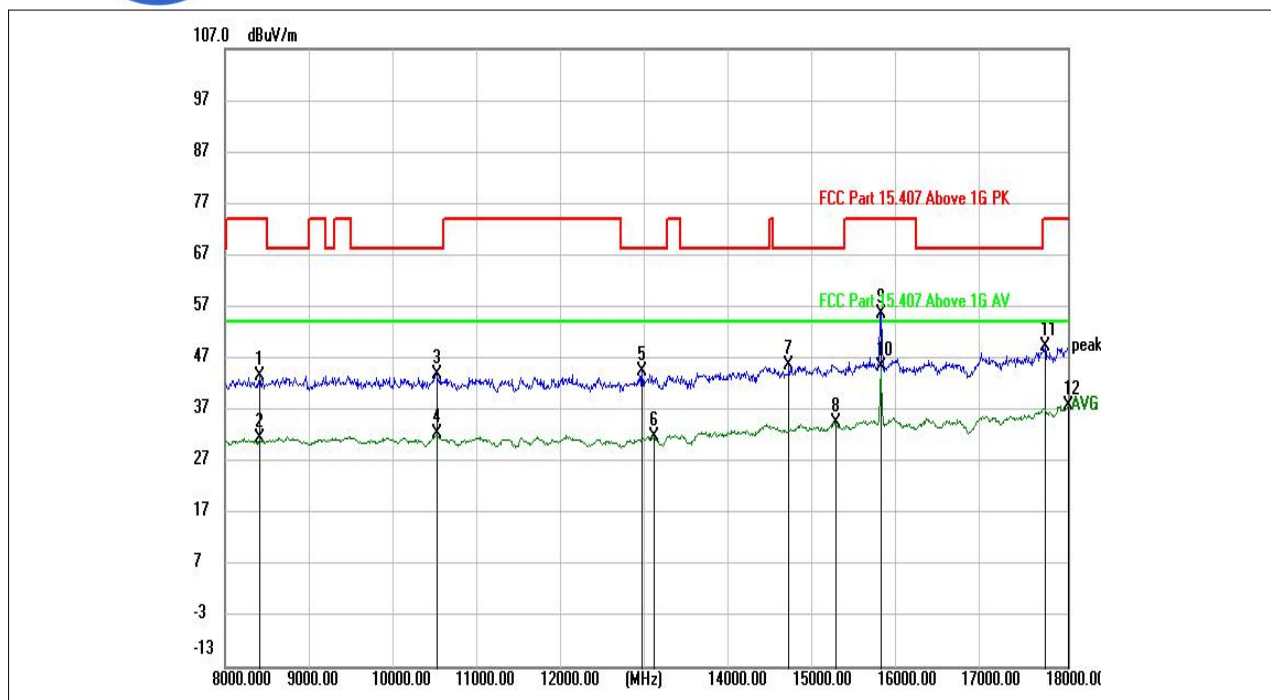
(802.11a _5260MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.3173	23.85	---	40.00	16.15	H	13.33
39.0245	16.65	---	40.00	23.35	H	14.23
71.3300	16.41	---	40.00	23.59	H	11.08
170.1948	25.43	---	43.50	18.07	H	12.44
360.4477	18.51	---	46.00	27.49	H	18.55
689.5644	26.27	---	46.00	19.73	H	24.82



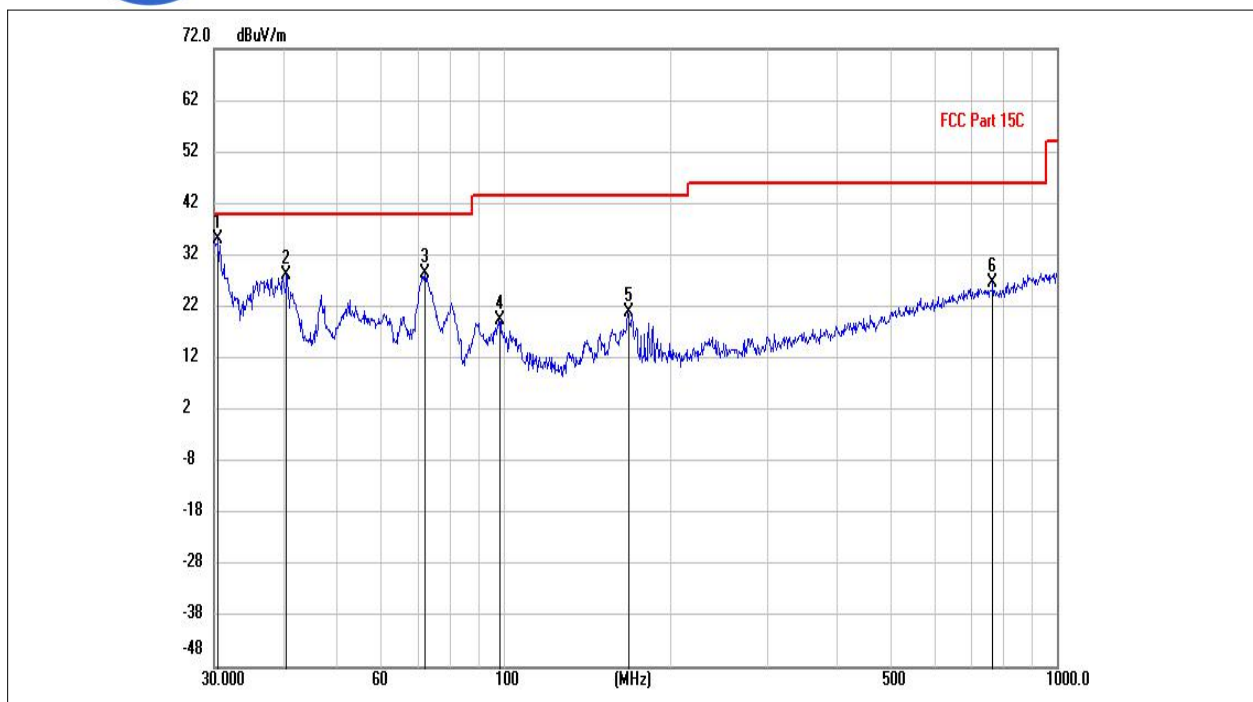
(802.11a _5260MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.000	36.82	---	74.00	37.18	H	-17.61
1098.000	---	27.40	54.00	26.60	H	-17.61
1777.000	40.44	---	68.20	27.76	H	-14.04
1777.000	---	27.22	54.00	26.78	H	-14.04
3506.000	41.69	---	68.20	26.51	H	-7.97
3506.000	---	29.94	54.00	24.06	H	-7.97
5270.000	42.92	---	68.20	25.28	H	-2.95
5270.000	---	31.04	54.00	22.96	H	-2.95
6621.000	---	32.19	54.00	21.81	H	-1.12
6747.000	44.59	---	68.20	23.61	H	-1.42
7965.000	---	32.20	54.00	21.80	H	0.61
7979.000	45.24	---	68.20	22.96	H	0.36



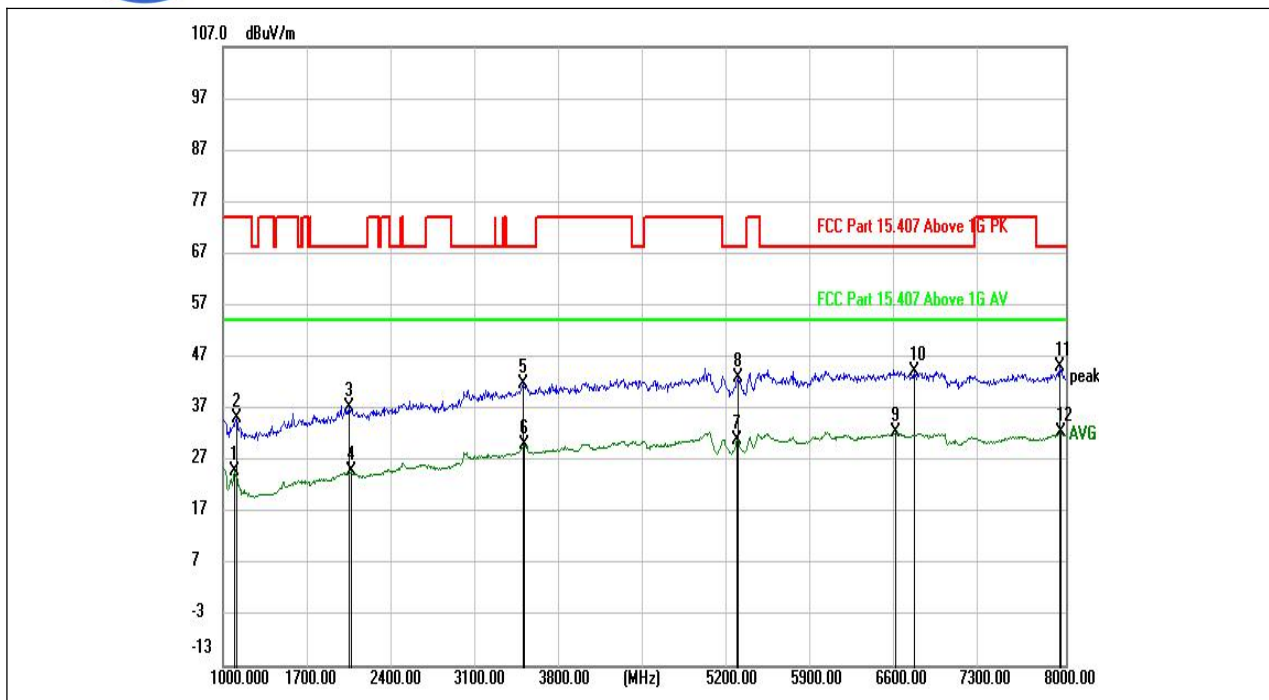
(802.11a _5260MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8410.000	43.49	---	74.00	30.51	H	1.21
8410.000	---	31.39	54.00	22.61	H	1.21
10520.000	43.78	---	68.20	24.42	H	3.06
10520.000	---	32.40	54.00	21.60	H	3.06
12950.000	44.34	---	68.20	23.86	H	5.78
13090.000	---	31.81	54.00	22.19	H	6.02
14690.000	45.70	---	68.20	22.50	H	8.99
15250.000	---	34.56	54.00	19.44	H	10.02
15780.000	55.72	---	74.00	18.28	H	10.30
15780.000	---	45.20	54.00	8.80	H	10.30
17730.000	49.20	---	74.00	24.80	H	14.66
18000.000	---	37.95	54.00	16.05	H	15.00



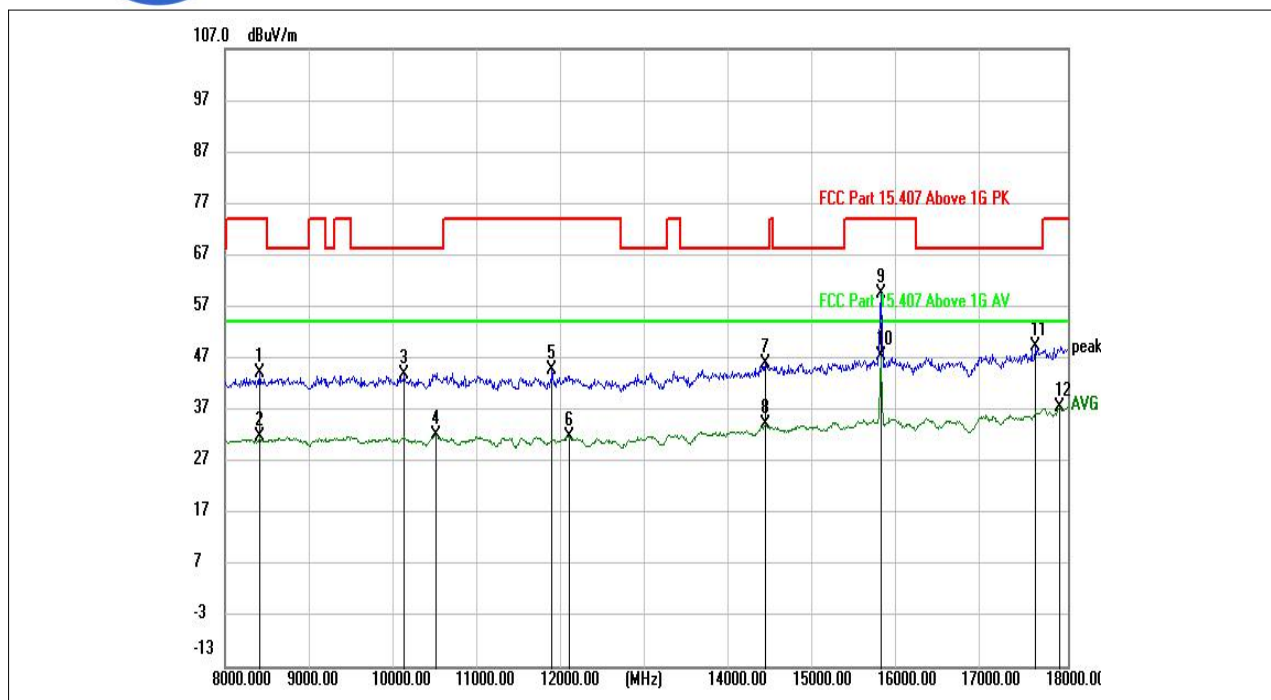
(802.11a _5260MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.5306	35.10	---	40.00	4.90	V	12.95
40.5591	27.99	---	40.00	12.01	V	15.16
72.0843	28.42	---	40.00	11.58	V	10.55
98.1419	19.42	---	43.50	24.08	V	13.66
167.8243	20.83	---	43.50	22.67	V	11.88
766.0572	26.66	---	46.00	19.34	V	26.21



(802.11a _5260MHz, Antenna Vertical , 1GHz to 8GHz)

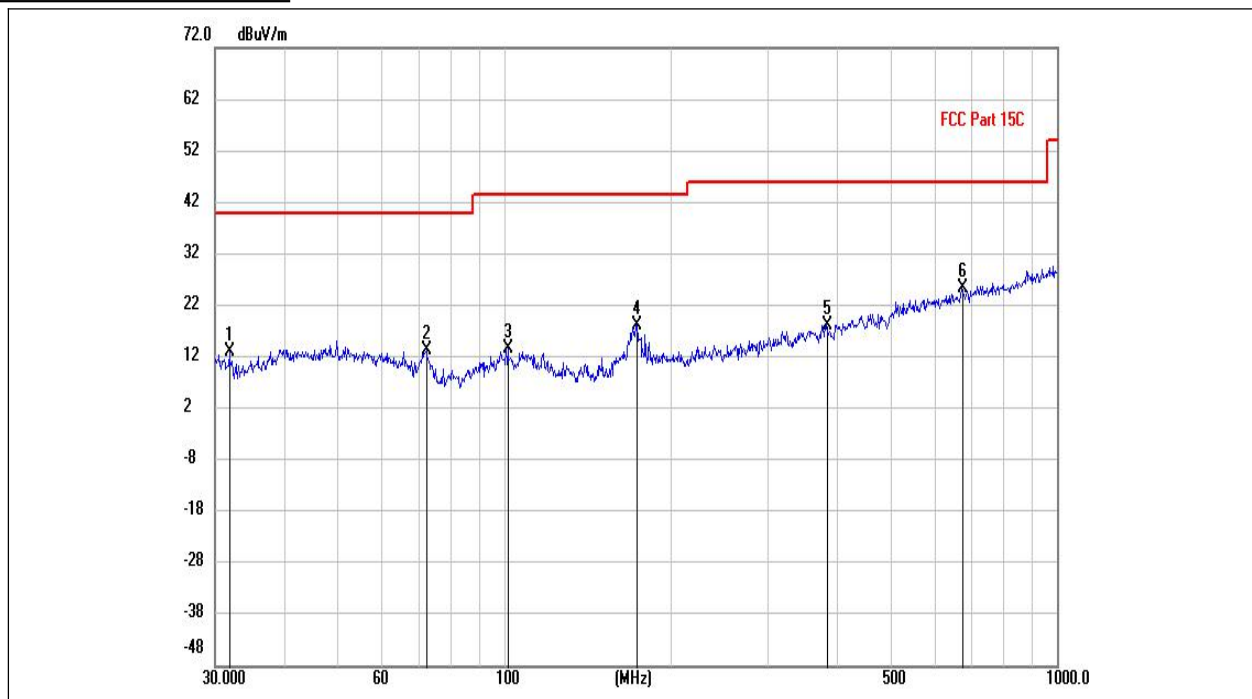
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.000	---	24.75	54.00	29.25	V	-17.61
1112.000	35.01	---	74.00	38.99	V	-17.53
2050.000	37.33	---	68.20	30.87	V	-12.14
2064.000	---	24.72	54.00	29.28	V	-11.69
3492.000	41.70	---	68.20	26.50	V	-5.42
3506.000	---	29.87	54.00	24.13	V	-5.42
5270.000	---	30.92	54.00	23.08	V	-2.95
5277.000	42.86	---	68.20	25.34	V	-2.94
6586.000	---	32.35	54.00	21.65	V	-0.82
6740.000	44.07	---	68.20	24.13	V	-1.44
7951.000	45.05	---	68.20	23.15	V	0.88
7958.000	---	32.45	54.00	21.55	V	0.88



(802.11a _5260MHz, Antenna Vertical, 8GHz to 18GHz)

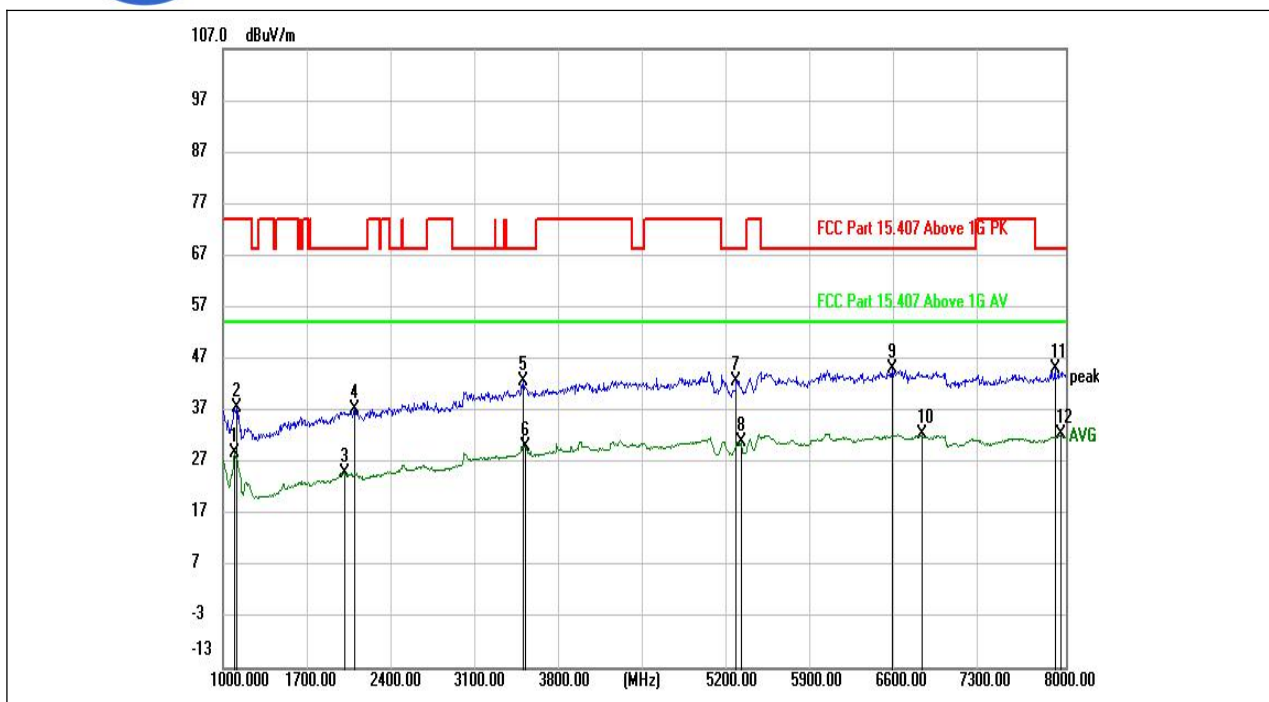
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8410.000	44.06	---	74.00	29.94	V	1.23
8410.000	---	31.78	54.00	22.22	V	1.23
10130.000	43.79	---	68.20	24.41	V	2.65
10500.000	---	32.12	54.00	21.88	V	3.99
11880.000	44.67	---	74.00	29.33	V	4.30
12080.000	---	31.87	54.00	22.13	V	4.71
14410.000	45.95	---	68.20	22.25	V	8.96
14410.000	---	34.18	54.00	19.82	V	8.96
15780.000	59.54	---	74.00	14.46	V	10.30
15780.000	---	47.59	54.00	6.41	V	10.30
17620.000	49.12	---	68.20	19.08	V	13.55
17900.000	---	37.56	54.00	16.44	V	15.46

Plots for Channel = 60



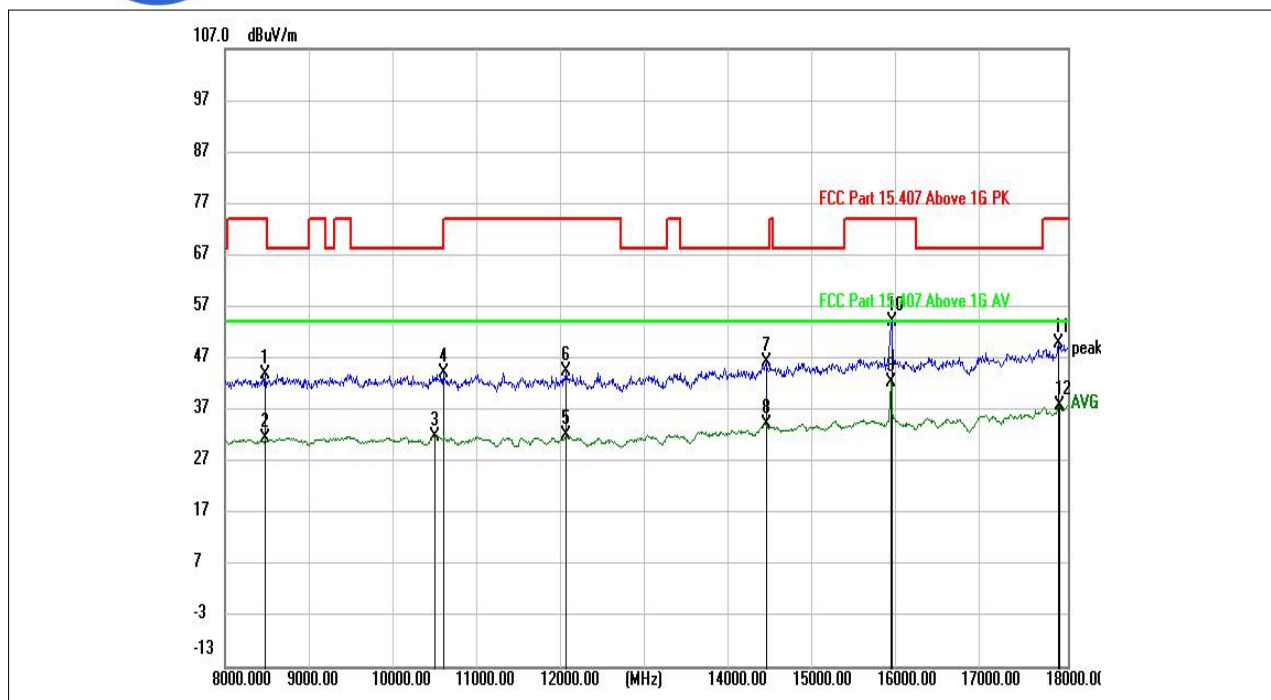
(802.11a _5300MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
31.8427	13.14	---	40.00	26.86	H	12.14
72.3376	13.50	---	40.00	26.50	H	10.48
101.6443	13.75	---	43.50	29.75	H	14.80
173.2051	18.29	---	43.50	25.21	H	11.79
382.5879	18.33	---	46.00	27.67	H	18.90
672.8445	25.53	---	46.00	20.47	H	24.59



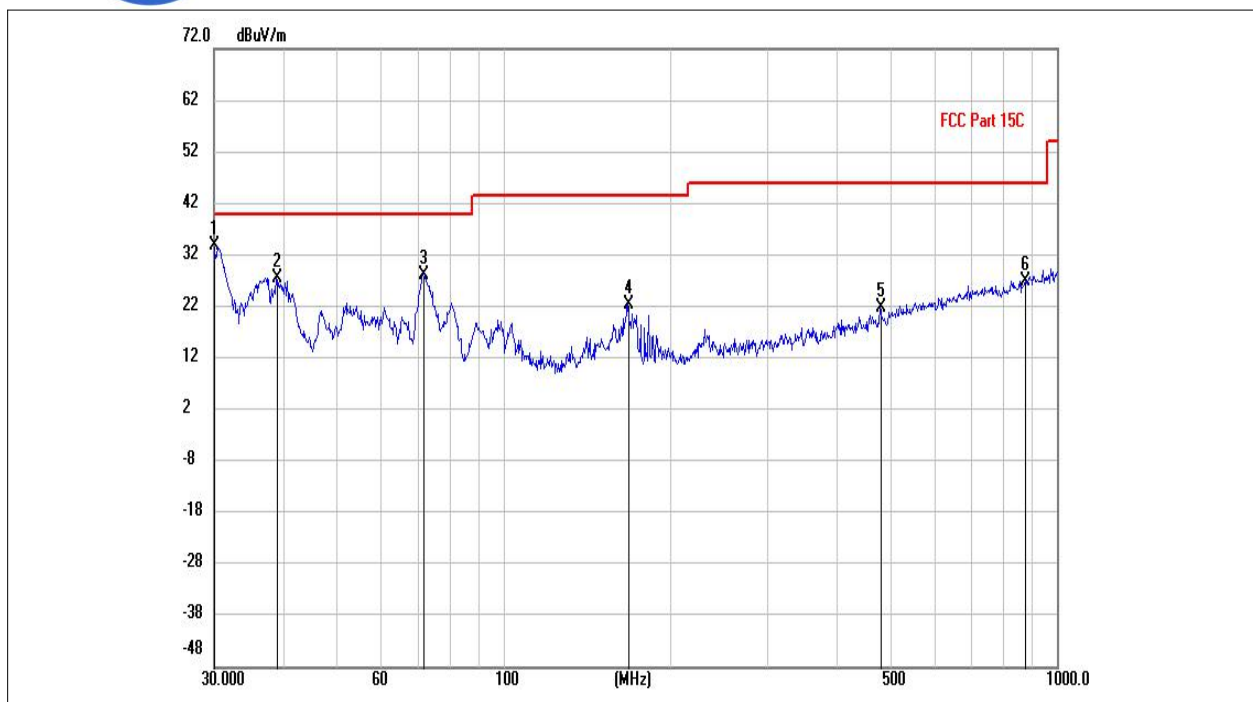
(802.11a _5300MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.000	---	28.69	54.00	25.31	H	-17.61
1112.000	37.59	---	74.00	36.41	H	-17.53
2015.000	---	24.89	54.00	29.11	H	-12.61
2092.000	37.21	---	68.20	30.99	H	-12.16
3492.000	42.65	---	68.20	25.55	H	-7.85
3513.000	---	30.04	54.00	23.96	H	-7.79
5263.000	42.76	---	68.20	25.44	H	-2.97
5305.000	---	30.97	54.00	23.03	H	-2.87
6558.000	44.96	---	68.20	23.24	H	-1.63
6810.000	---	32.30	54.00	21.70	H	-1.50
7909.000	44.91	---	68.20	23.29	H	0.22
7958.000	---	32.36	54.00	21.64	H	0.72



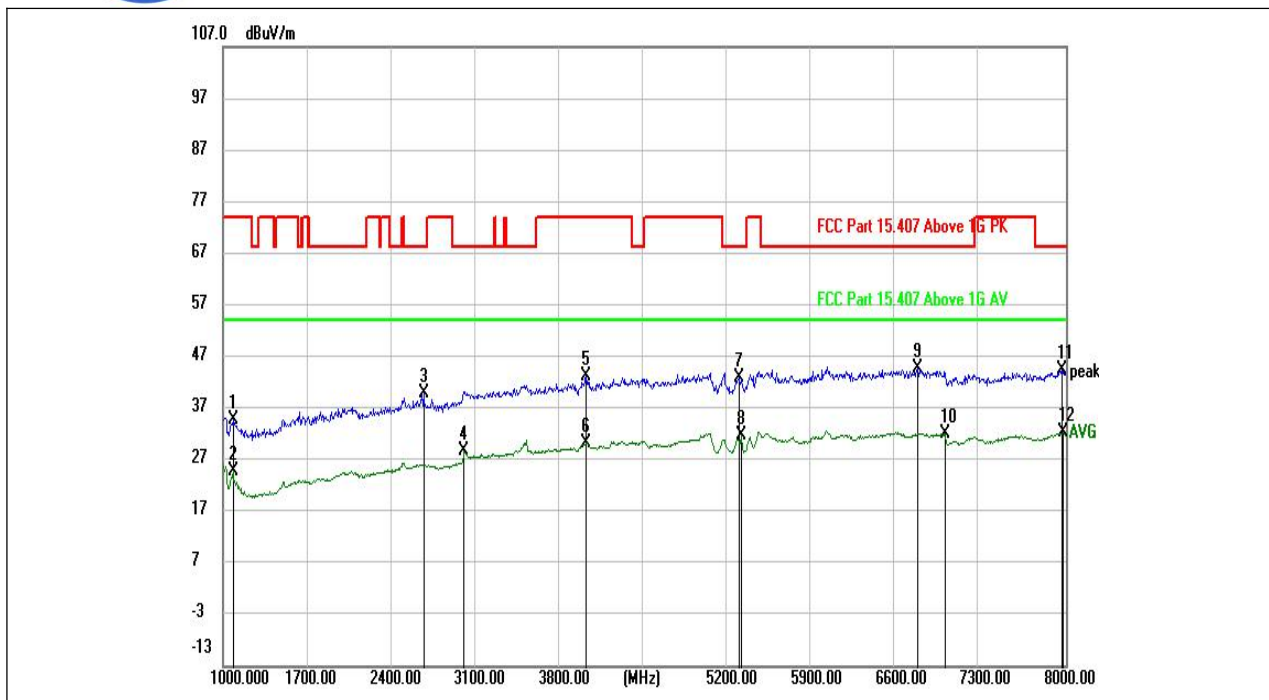
(802.11a _5300MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8480.000	43.71	---	74.00	30.29	H	1.22
8480.000	---	31.38	54.00	22.62	H	1.22
10490.000	---	31.91	54.00	22.09	H	3.85
10590.000	44.17	---	68.20	24.03	H	2.72
12040.000	---	31.97	54.00	22.03	H	5.04
12050.000	44.38	---	74.00	29.62	H	5.10
14420.000	46.28	---	68.20	21.92	H	8.95
14420.000	---	34.20	54.00	19.80	H	8.95
15900.000	---	42.46	54.00	11.54	H	11.09
15910.000	53.99	---	74.00	20.01	H	11.12
17890.000	49.72	---	74.00	24.28	H	15.64
17900.000	---	37.72	54.00	16.28	H	15.46



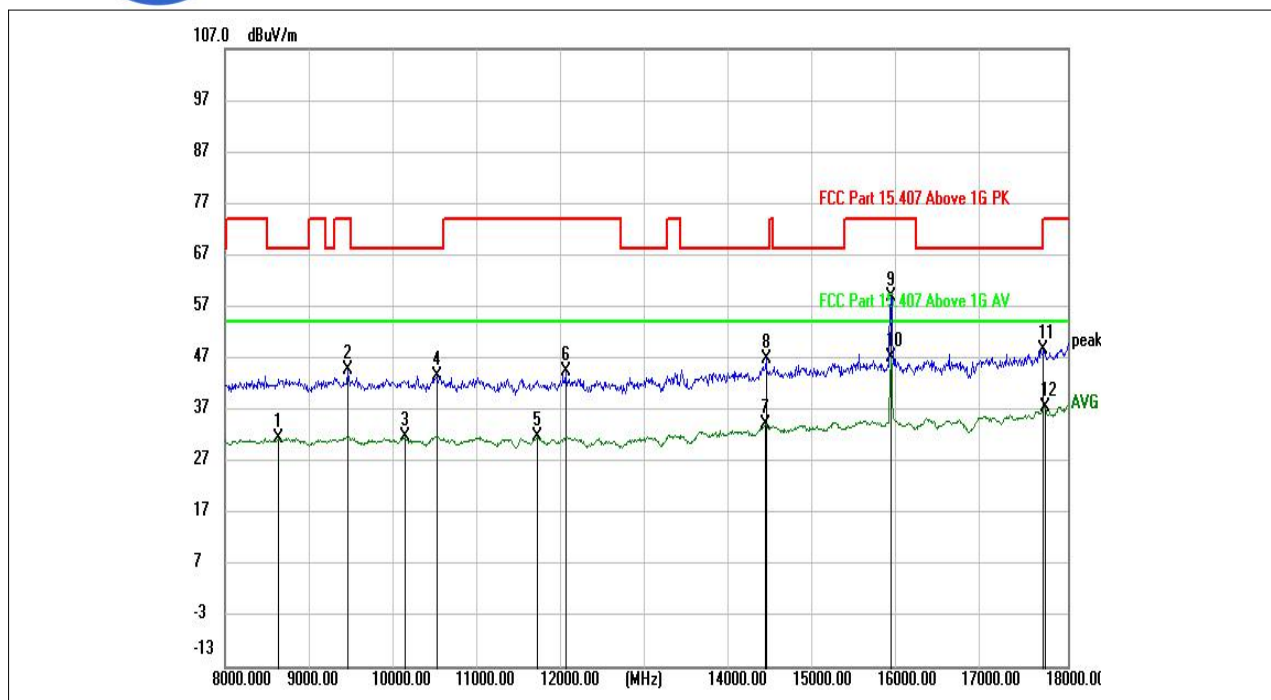
(802.11a _5300MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.0000	33.80	---	40.00	6.20	V	13.90
38.8879	27.39	---	40.00	12.61	V	14.17
71.5806	27.99	---	40.00	12.01	V	10.89
167.8243	22.35	---	43.50	21.15	V	11.88
478.8456	21.68	---	46.00	24.32	V	21.29
878.3214	26.95	---	46.00	19.05	V	27.63



(802.11a_5300MHz, Antenna Vertical, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1084.000	34.84	---	74.00	39.16	V	-17.85
1084.000	---	24.73	54.00	29.27	V	-17.85
2666.000	39.77	---	68.20	28.43	V	-9.60
3002.000	---	28.63	54.00	25.37	V	-6.96
4017.000	43.20	---	74.00	30.80	V	-4.11
4017.000	---	30.22	54.00	23.78	V	-4.11
5284.000	42.90	---	68.20	25.30	V	-2.92
5305.000	---	31.86	54.00	22.14	V	-2.87
6768.000	44.71	---	68.20	23.49	V	-1.41
6999.000	---	32.12	54.00	21.88	V	-1.20
7965.000	44.34	---	68.20	23.86	V	0.77
7979.000	---	32.25	54.00	21.75	V	0.54

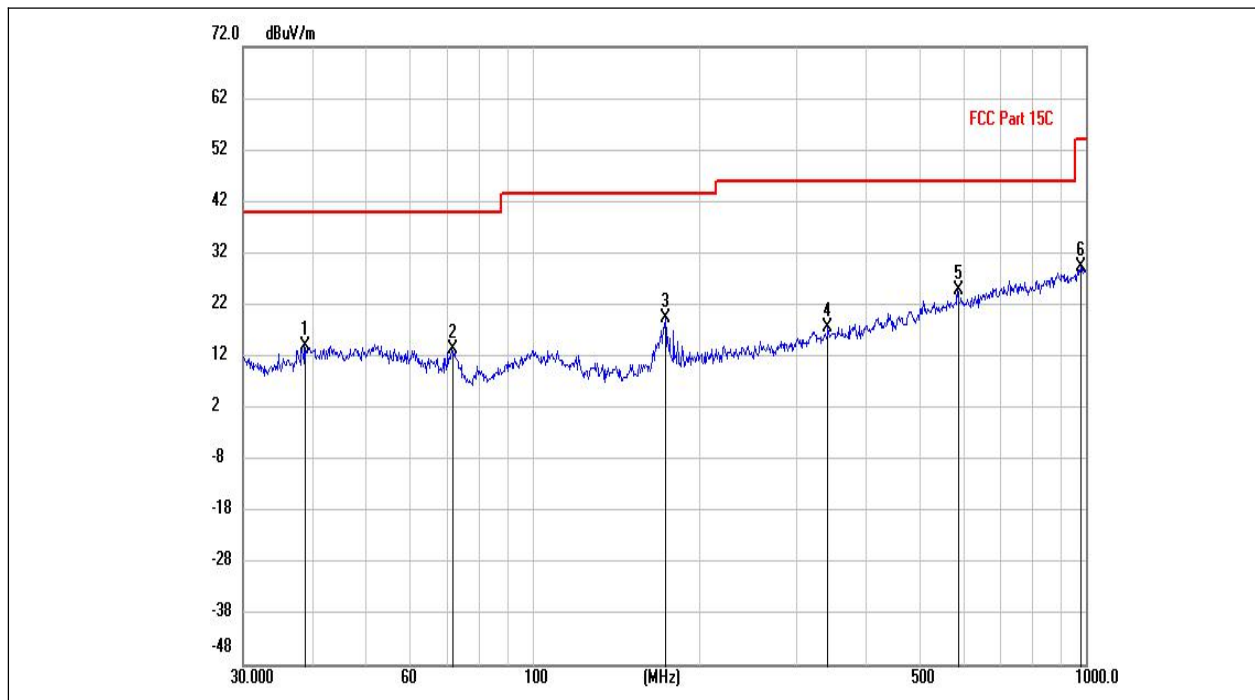


(802.11a_5300MHz, Antenna Vertical, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8640.000	---	31.44	54.00	22.56	V	1.53
9460.000	44.78	---	74.00	29.22	V	2.20
10140.000	---	31.77	54.00	22.23	V	2.67
10510.000	43.50	---	68.20	24.70	V	3.87
11700.000	---	31.67	54.00	22.33	V	3.95
12040.000	44.40	---	74.00	29.60	V	5.04
14410.000	---	34.22	54.00	19.78	V	8.96
14420.000	46.72	---	68.20	21.48	V	8.95
15900.000	59.06	---	74.00	14.94	V	11.09
15900.000	---	47.05	54.00	6.95	V	11.09
17710.000	48.60	---	74.00	25.40	V	14.47
17730.000	---	37.48	54.00	16.52	V	14.66

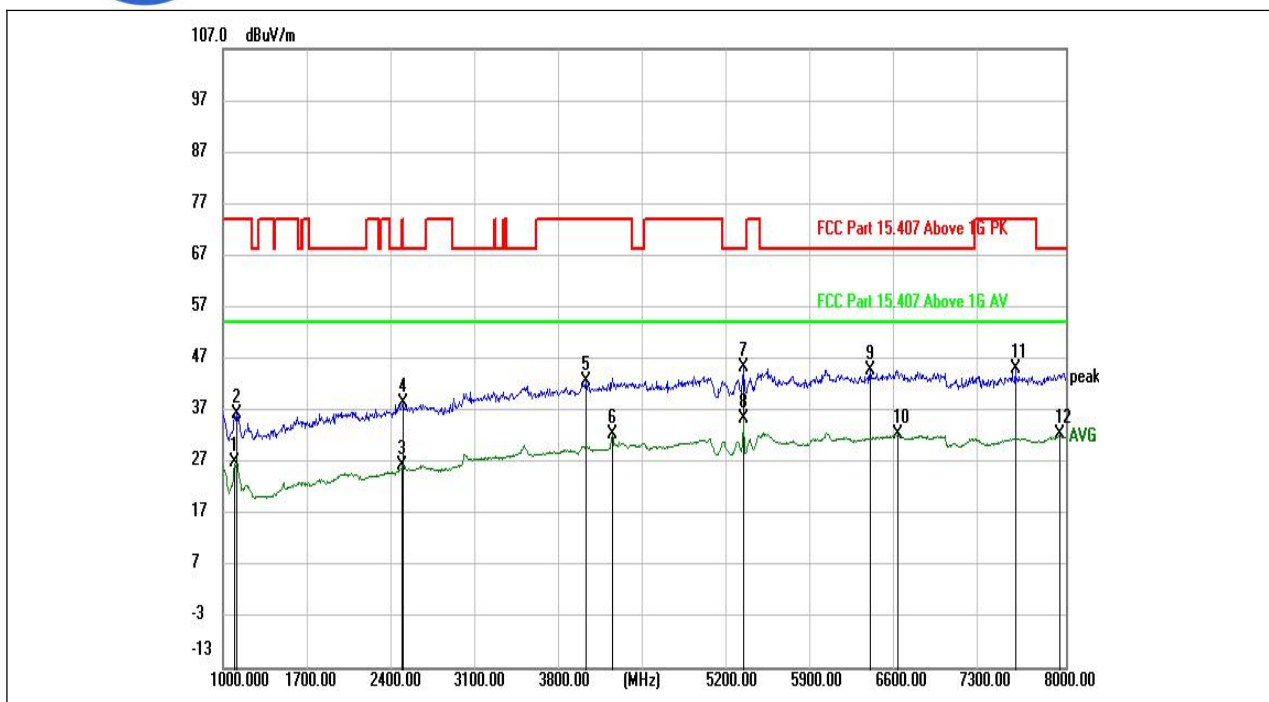


Plot for Channel = 64



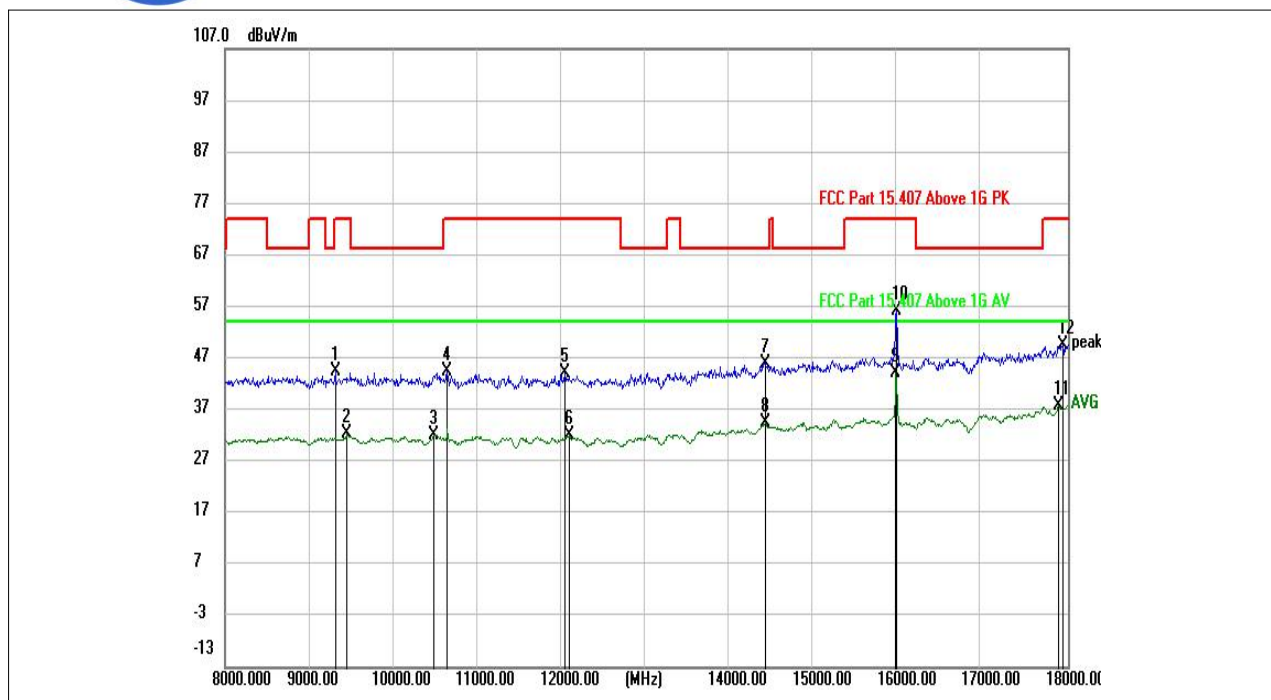
(802.11a _5320MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
38.7518	13.94	---	40.00	26.06	H	14.14
71.5806	13.22	---	40.00	26.78	H	10.89
173.8135	19.47	---	43.50	24.03	H	11.67
341.9787	17.62	---	46.00	28.38	H	18.24
586.8437	24.77	---	46.00	21.23	H	23.14
979.1804	29.31	---	54.00	24.69	H	28.70



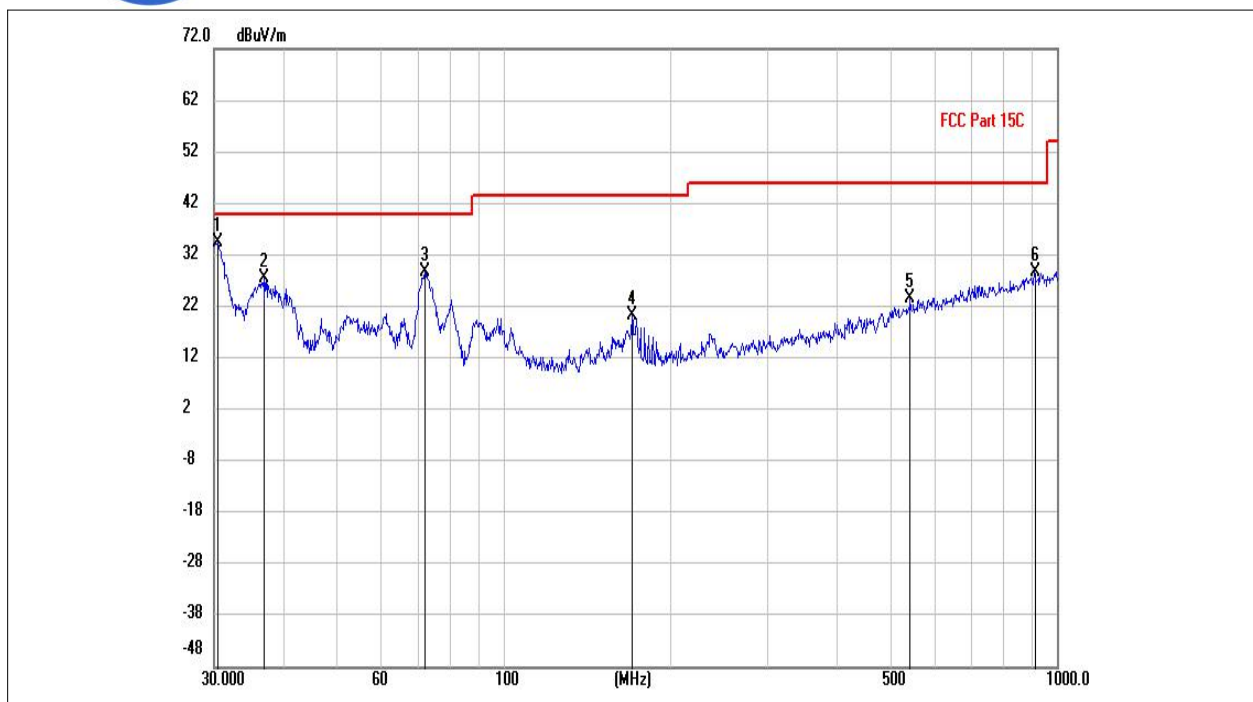
(802.11a _5230MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.000	---	26.80	54.00	27.20	H	-17.61
1112.000	36.44	---	74.00	37.56	H	-17.53
2491.000	---	26.35	54.00	27.65	H	-10.67
2498.000	38.33	---	74.00	35.67	H	-11.31
4017.000	42.62	---	74.00	31.38	H	-5.89
4234.000	---	32.29	54.00	21.71	H	-4.44
5326.000	45.28	---	68.20	22.92	H	-2.82
5326.000	---	35.50	54.00	18.50	H	-2.82
6376.000	44.79	---	68.20	23.41	H	-1.94
6600.000	---	32.49	54.00	21.51	H	-0.90
7580.000	44.98	---	74.00	29.02	H	-0.12
7951.000	---	32.36	54.00	21.64	H	0.73



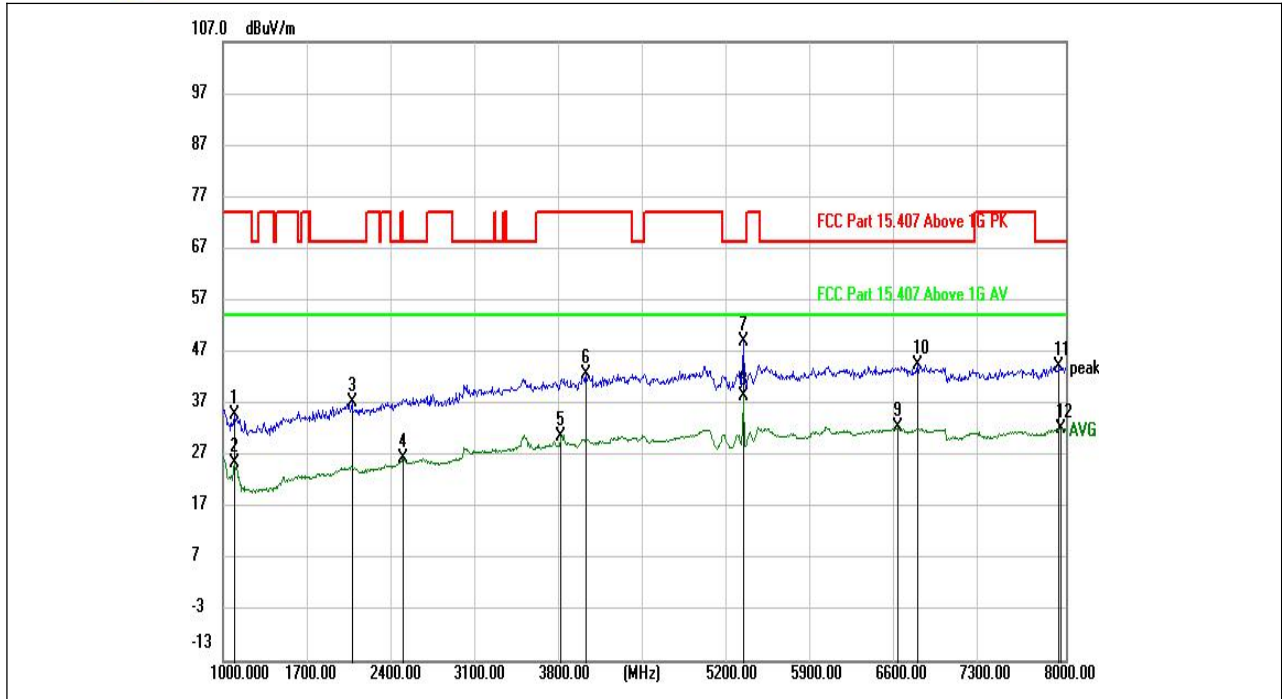
(802.11a _5320MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
9310.000	44.37	---	74.00	29.63	H	2.10
9440.000	---	32.26	54.00	21.74	H	1.97
10480.000	---	32.15	54.00	21.85	H	3.07
10640.000	44.40	---	74.00	29.60	H	2.64
12030.000	44.20	---	74.00	29.80	H	4.38
12090.000	---	32.13	54.00	21.87	H	4.19
14410.000	45.92	---	68.20	22.28	H	8.84
14410.000	---	34.34	54.00	19.66	H	8.84
15960.000	---	44.13	54.00	9.87	H	11.55
15970.000	56.14	---	74.00	17.86	H	11.63
17890.000	---	37.74	54.00	16.26	H	15.24
17940.000	49.45	---	74.00	24.55	H	14.55



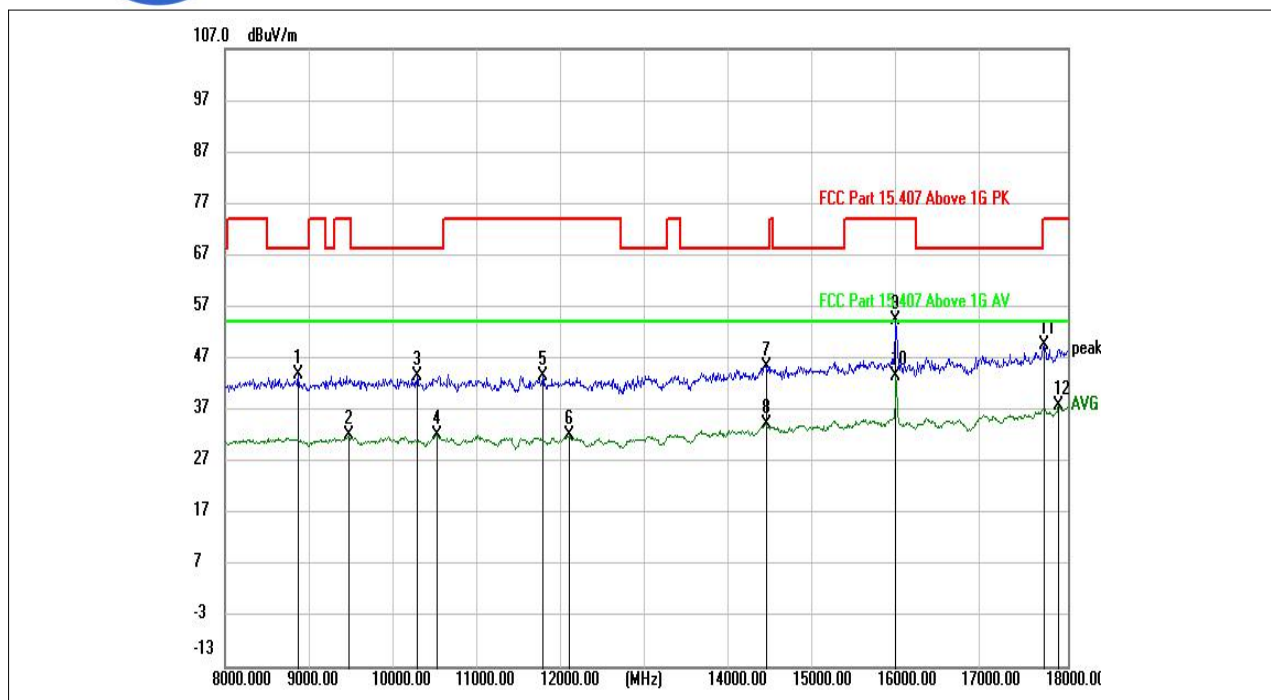
(802.11a _5320MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.5306	34.38	---	40.00	5.62	V	12.95
36.8953	27.58	---	40.00	12.42	V	13.54
72.0843	28.88	---	40.00	11.12	V	10.55
170.7926	20.35	---	43.50	23.15	V	12.28
543.2742	23.58	---	46.00	22.42	V	22.45
909.6667	28.69	---	46.00	17.31	V	28.04



(802.11a _5320MHz, Antenna Vertical , 1GHz to 8GHz)

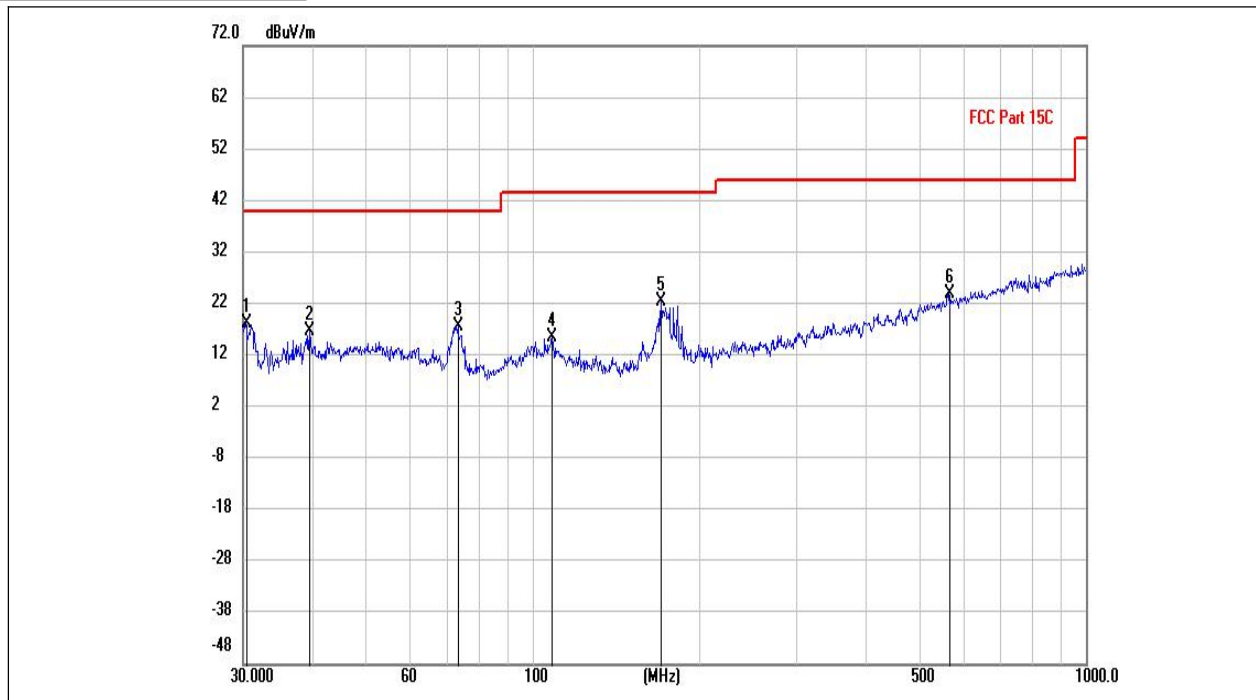
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.000	34.84	---	74.00	39.16	V	-17.61
1098.000	---	25.34	54.00	28.66	V	-17.61
2071.000	37.08	---	68.20	31.12	V	-11.53
2498.000	---	26.24	54.00	27.76	V	-9.63
3807.000	---	30.69	54.00	23.31	V	-5.82
4017.000	42.64	---	74.00	31.36	V	-4.11
5326.000	48.88	---	68.20	19.32	V	-2.82
5326.000	---	38.50	54.00	15.50	V	-2.82
6600.000	---	32.24	54.00	21.76	V	-0.90
6768.000	44.45	---	68.20	23.75	V	-1.41
7944.000	44.19	---	68.20	24.01	V	0.79
7958.000	---	32.22	54.00	21.78	V	0.88



(802.11a_5320MHz, Antenna Vertical, 8GHz to 18GHz)

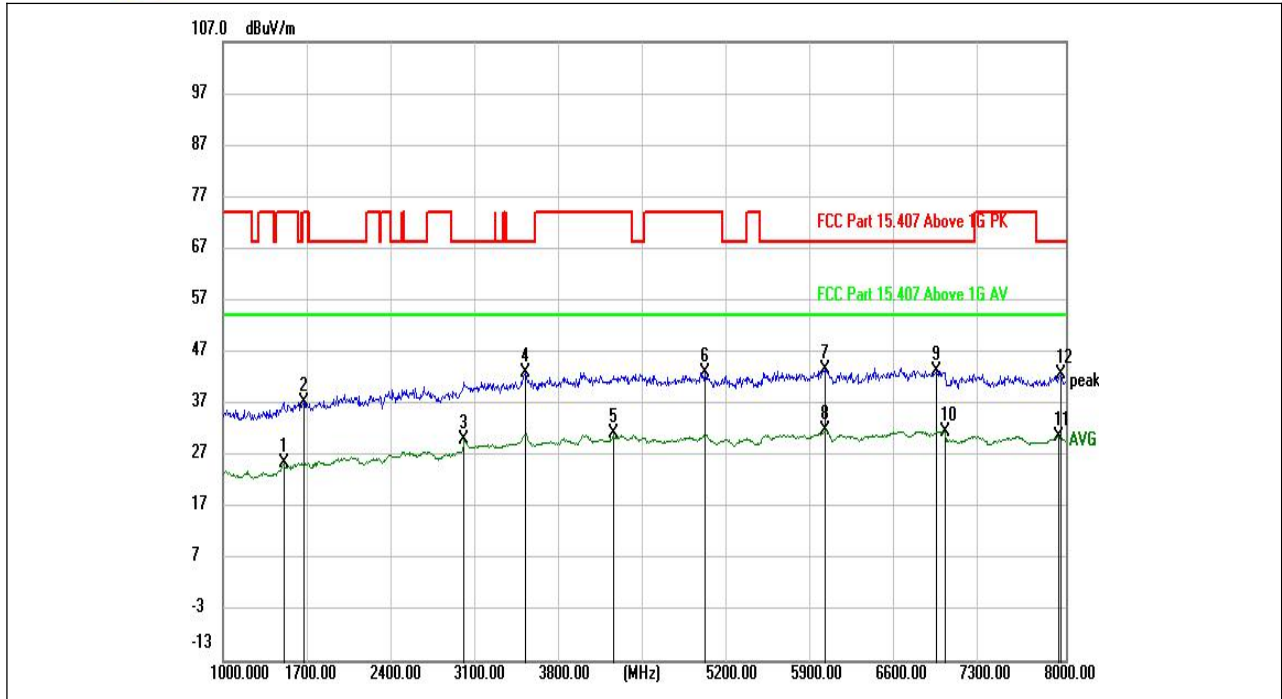
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8870.000	43.75	---	68.20	24.45	V	1.77
9470.000	---	31.98	54.00	22.02	V	2.22
10280.000	43.43	---	68.20	24.77	V	2.30
10510.000	---	32.02	54.00	21.98	V	3.87
11770.000	43.62	---	74.00	30.38	V	4.01
12080.000	---	32.22	54.00	21.78	V	4.71
14420.000	45.48	---	68.20	22.72	V	8.95
14420.000	---	34.20	54.00	19.80	V	8.95
15960.000	54.35	---	74.00	19.65	V	11.47
15960.000	---	43.41	54.00	10.59	V	11.47
17720.000	49.52	---	74.00	24.48	V	14.57
17890.000	---	37.70	54.00	16.30	V	15.64

Plots for Channel = 149



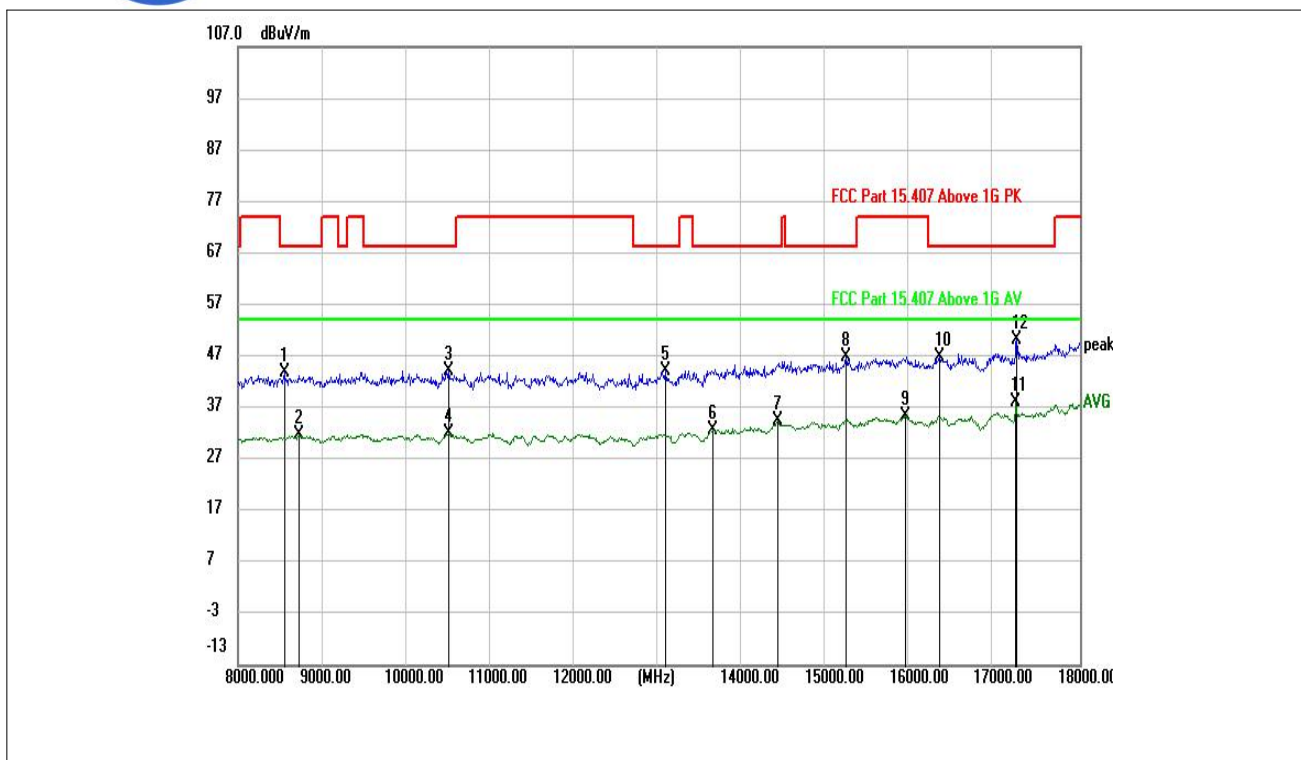
(802.11a _5745MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.3173	18.31	---	40.00	21.69	H	13.33
39.5757	16.54	---	40.00	23.46	H	15.06
73.3593	17.62	---	40.00	22.38	H	10.21
108.6470	15.49	---	43.50	28.01	H	14.70
170.7926	22.32	---	43.50	21.18	H	12.28
564.6389	23.87	---	46.00	22.13	H	22.89



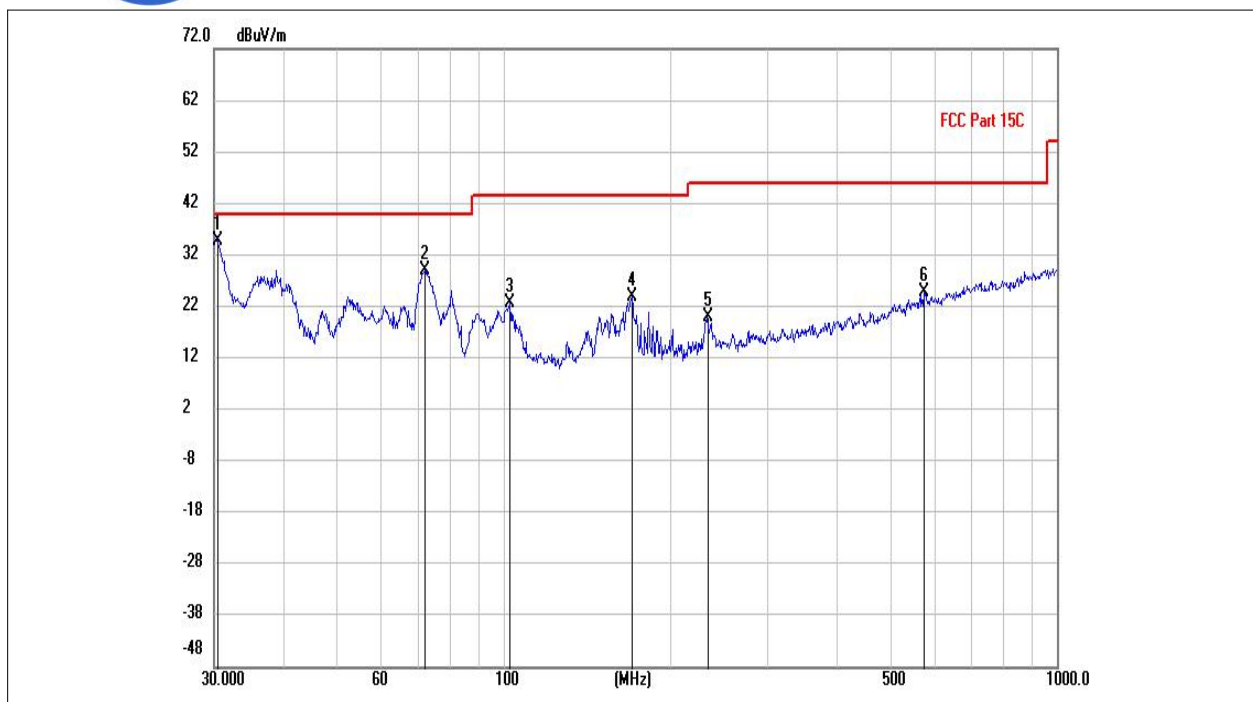
(802.11a _5745MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1504.000	---	25.50	54.00	28.50	H	-12.71
1672.000	37.21	---	74.00	36.79	H	-11.75
3002.000	---	29.91	54.00	24.09	H	-7.57
3513.000	42.85	---	68.20	25.35	H	-6.82
4241.000	---	31.17	54.00	22.83	H	-4.06
5004.000	42.87	---	74.00	31.13	H	-4.11
6005.000	43.55	---	68.20	24.65	H	-3.19
6005.000	---	31.84	54.00	22.16	H	-3.19
6922.000	43.33	---	68.20	24.87	H	-1.77
6999.000	---	31.57	54.00	22.43	H	-1.60
7944.000	---	30.60	54.00	23.40	H	-1.24
7958.000	42.77	---	68.20	25.43	H	-1.26



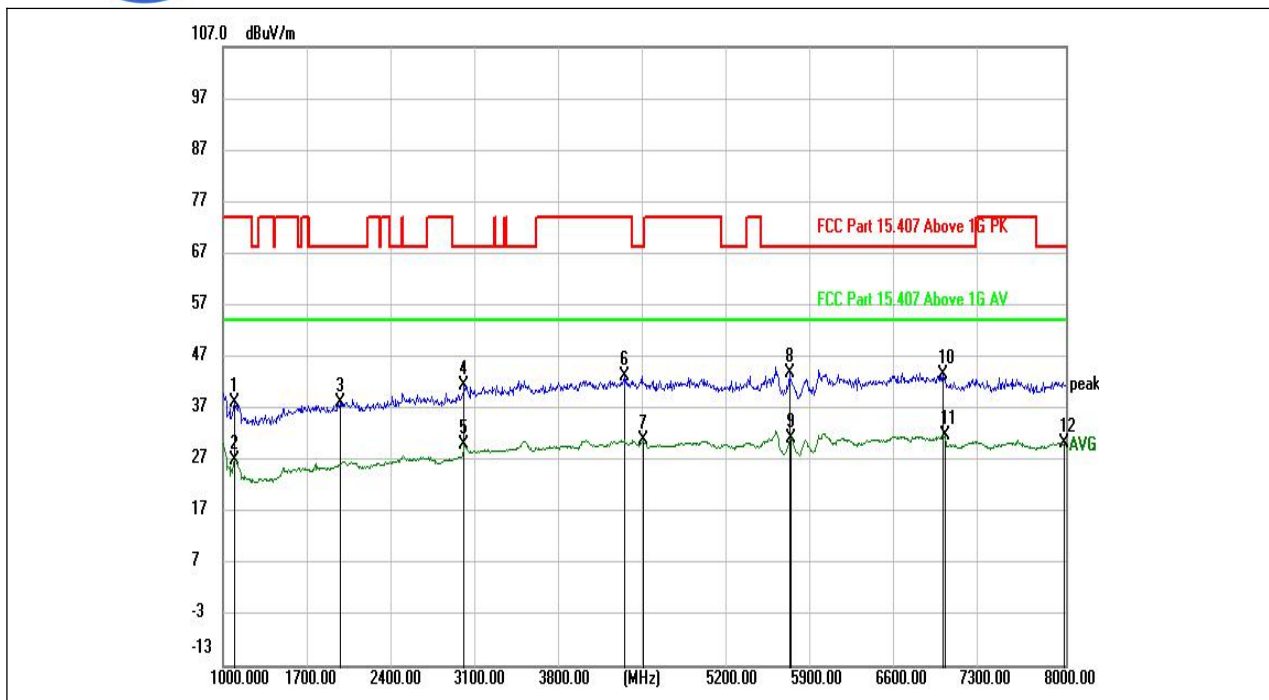
(802.11a _5745MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8550.000	43.71	---	68.20	24.49	H	1.56
8720.000	---	31.65	54.00	22.35	H	1.68
10500.000	44.28	---	68.20	23.92	H	3.19
10500.000	---	32.16	54.00	21.84	H	3.19
13080.000	44.09	---	68.20	24.11	H	6.14
13640.000	---	32.82	54.00	21.18	H	7.10
14410.000	---	34.55	54.00	19.45	H	8.84
15220.000	46.82	---	68.20	21.38	H	10.02
15930.000	---	35.42	54.00	18.58	H	11.32
16330.000	46.89	---	68.20	21.31	H	11.33
17240.000	---	37.96	54.00	16.04	H	12.69
17250.000	50.26	---	68.20	17.94	H	12.75



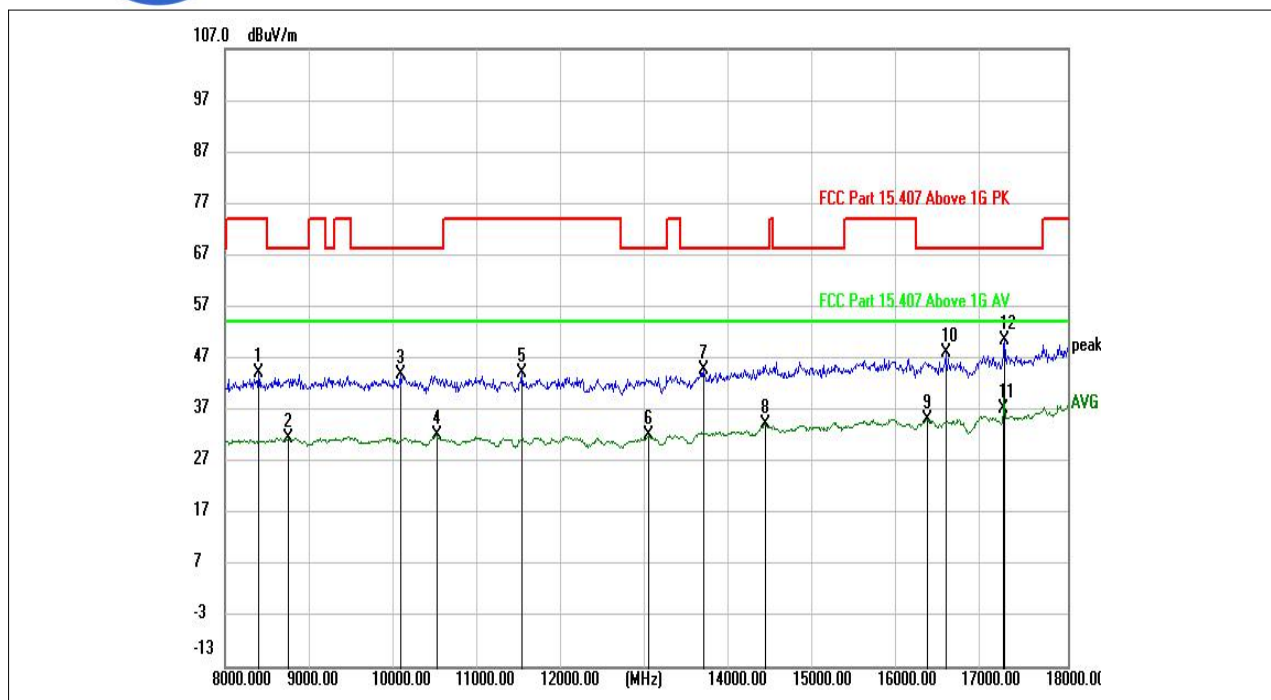
(802.11a _5745MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.4238	34.78	---	40.00	5.22	V	13.14
72.0843	28.97	---	40.00	11.03	V	10.55
102.7192	22.67	---	43.50	20.83	V	14.51
170.7926	23.91	---	43.50	19.59	V	12.28
233.3487	19.95	---	46.00	26.05	V	14.44
576.6443	24.96	---	46.00	21.04	V	23.03



(802.11a _5745MHz, Antenna Vertical, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.000	38.12	---	74.00	35.88	V	-14.49
1098.000	---	27.02	54.00	26.98	V	-14.49
1973.000	38.20	---	68.20	30.00	V	-10.85
3002.000	41.48	---	68.20	26.72	V	-5.36
3002.000	---	29.96	54.00	24.04	V	-5.36
4332.000	43.10	---	74.00	30.90	V	-3.45
4493.000	---	30.78	54.00	23.22	V	-3.48
5704.000	43.84	---	68.20	24.36	V	-2.77
5718.000	---	31.18	54.00	22.82	V	-2.79
6978.000	43.64	---	68.20	24.56	V	-1.51
6999.000	---	31.68	54.00	22.32	V	-1.50
7986.000	---	30.31	54.00	23.69	V	-1.43

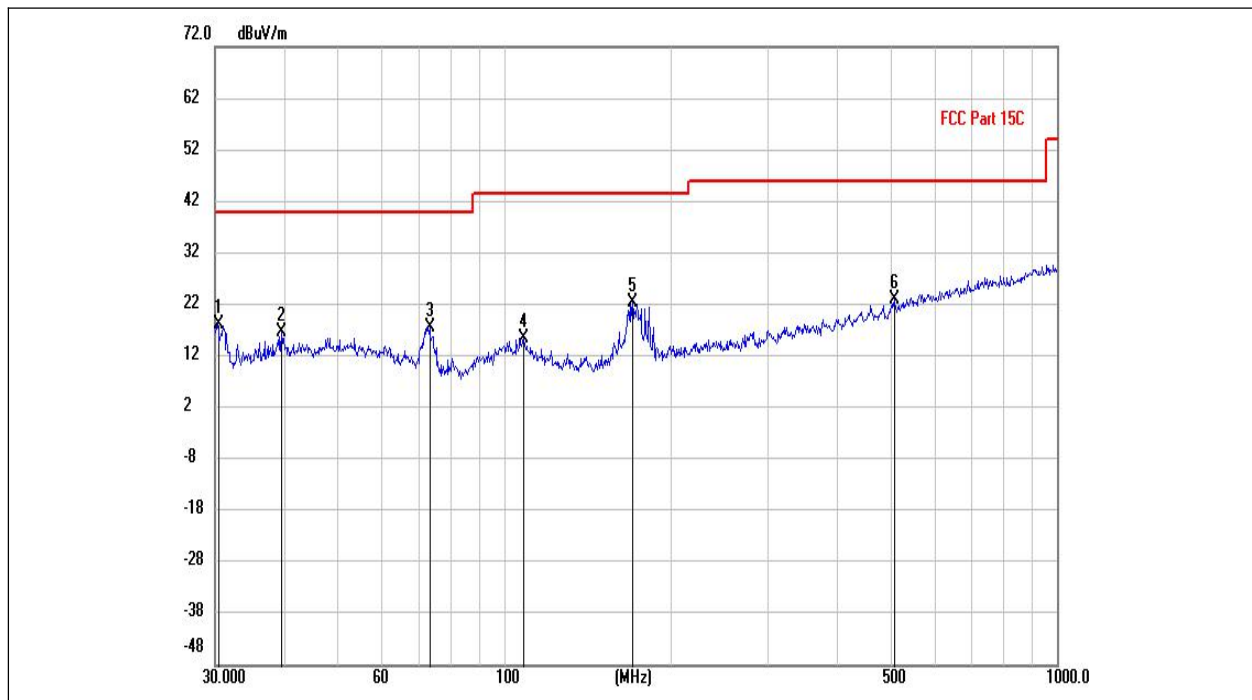


(802.11a _5745MHz, Antenna Vertical, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8400.000	44.19	---	74.00	29.81	V	1.20
8750.000	---	31.44	54.00	22.56	V	1.66
10080.000	43.76	---	68.20	24.44	V	2.61
10510.000	---	32.17	54.00	21.83	V	3.87
11520.000	44.01	---	74.00	29.99	V	3.93
13030.000	---	31.97	54.00	22.03	V	6.02
13680.000	44.65	---	68.20	23.55	V	7.25
14410.000	---	34.19	54.00	19.81	V	8.96
16330.000	---	35.14	54.00	18.86	V	11.33
16550.000	47.94	---	68.20	20.26	V	11.69
17230.000	---	37.17	54.00	16.83	V	12.63
17250.000	50.33	---	68.20	17.87	V	12.75

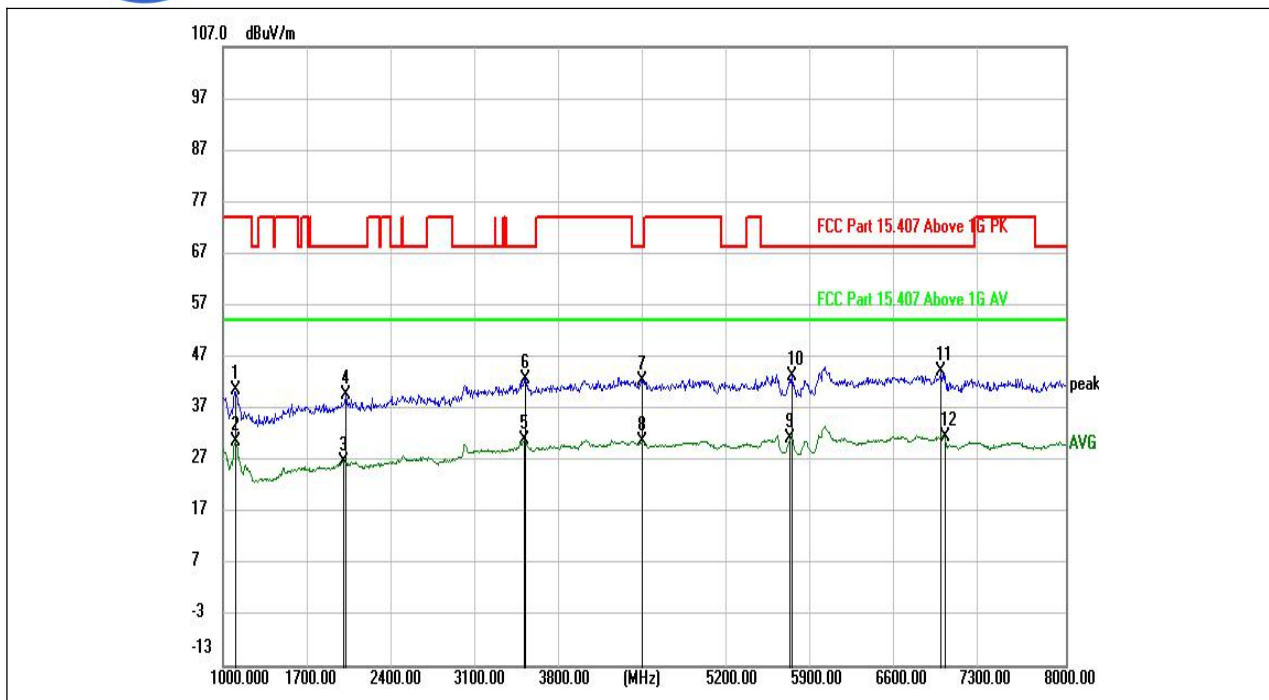


Plot for Channel = 157



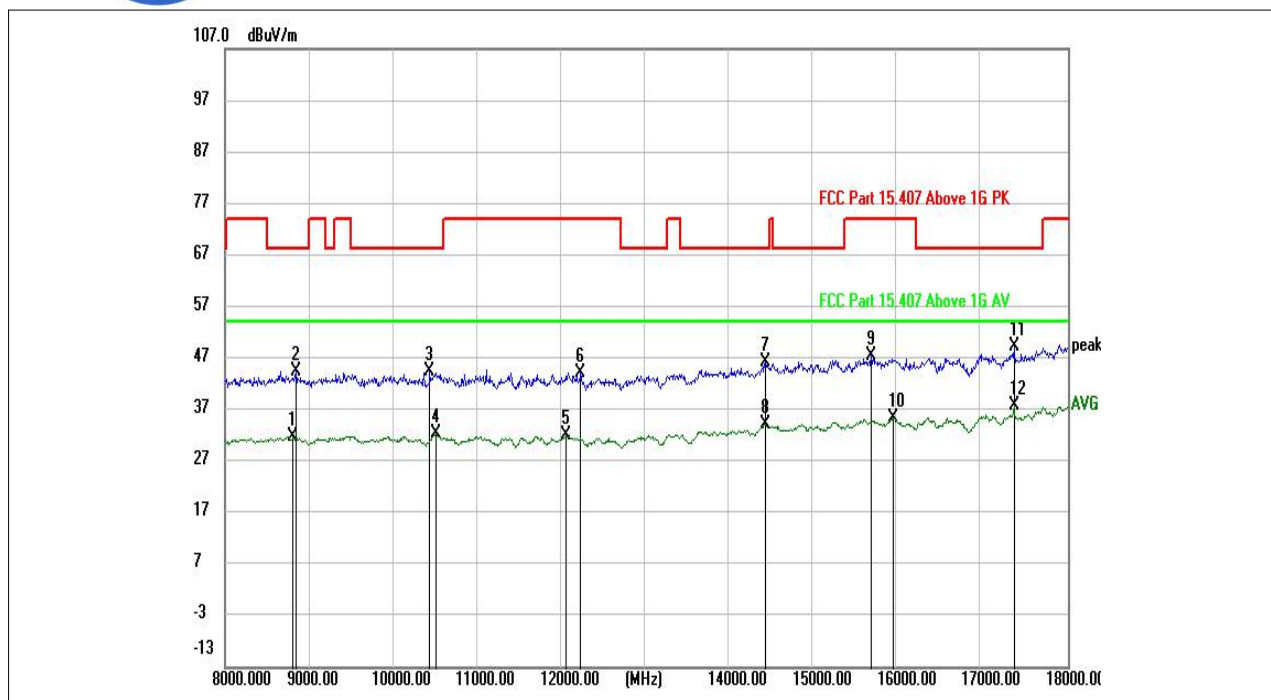
(802.11a _5785MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.3173	18.31	---	40.00	21.69	H	13.33
39.5757	16.54	---	40.00	23.46	H	15.06
73.3593	17.62	---	40.00	22.38	H	10.21
108.6470	15.49	---	43.50	28.01	H	14.70
170.7926	22.32	---	43.50	21.18	H	12.28
508.2582	23.10	---	46.00	22.90	H	22.00



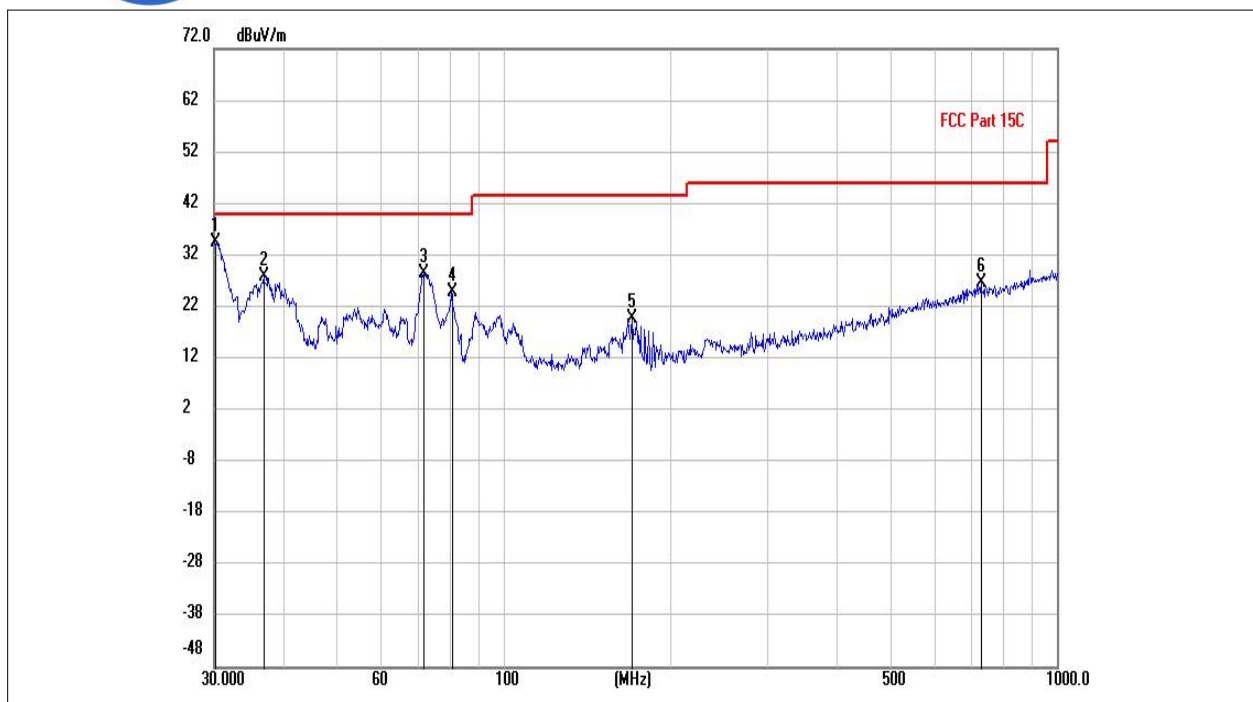
(802.11a _5785MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1105.000	40.37	---	74.00	33.63	H	-14.56
1105.000	---	30.48	54.00	23.52	H	-14.56
2001.000	---	26.79	54.00	27.21	H	-11.69
2022.000	39.73	---	68.20	28.47	H	-10.36
3506.000	---	30.84	54.00	23.16	H	-6.98
3513.000	42.68	---	68.20	25.52	H	-6.82
4486.000	42.27	---	68.20	25.93	H	-5.20
4486.000	---	30.65	54.00	23.35	H	-5.20
5711.000	---	31.15	54.00	22.85	H	-2.78
5725.000	43.10	---	68.20	25.10	H	-2.80
6964.000	44.21	---	68.20	23.99	H	-1.61
6999.000	---	31.61	54.00	22.39	H	-1.60



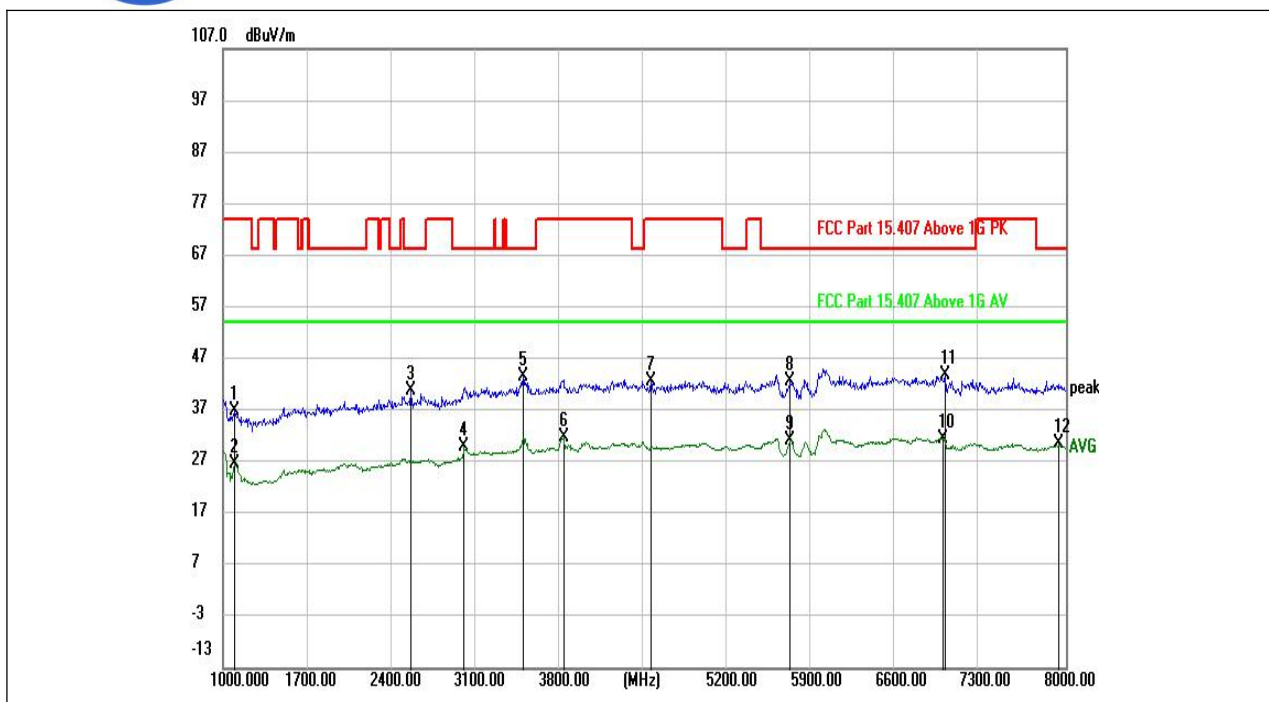
(802.11a _5785MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8810.000	---	31.80	54.00	22.20	H	1.86
8840.000	44.43	---	68.20	23.77	H	2.12
10430.000	44.49	---	68.20	23.71	H	2.70
10500.000	---	32.24	54.00	21.76	H	3.19
12050.000	---	32.10	54.00	21.90	H	4.58
12220.000	44.04	---	74.00	29.96	H	4.11
14410.000	46.22	---	68.20	21.98	H	8.84
14410.000	---	34.25	54.00	19.75	H	8.84
15670.000	47.43	---	74.00	26.57	H	11.31
15930.000	---	35.51	54.00	18.49	H	11.32
17360.000	49.23	---	68.20	18.97	H	13.09
17360.000	---	37.69	54.00	16.31	H	13.09



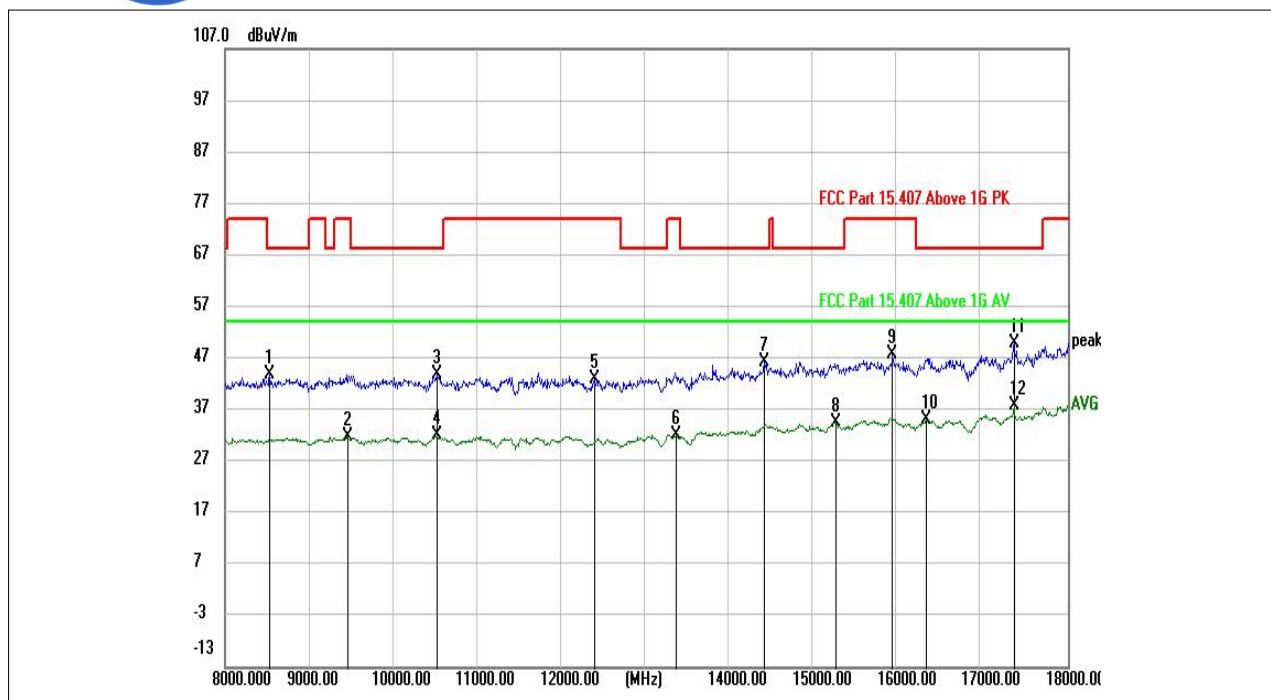
(802.11a _5785MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.1054	34.46	---	40.00	5.54	V	13.71
36.8953	27.80	---	40.00	12.20	V	13.54
71.8320	28.50	---	40.00	11.50	V	10.69
80.6442	24.68	---	40.00	15.32	V	10.66
170.7926	19.69	---	43.50	23.81	V	12.28
729.3583	26.53	---	46.00	19.47	V	25.36



(802.11a_5785MHz, Antenna Vertical, 1GHz to 8GHz)

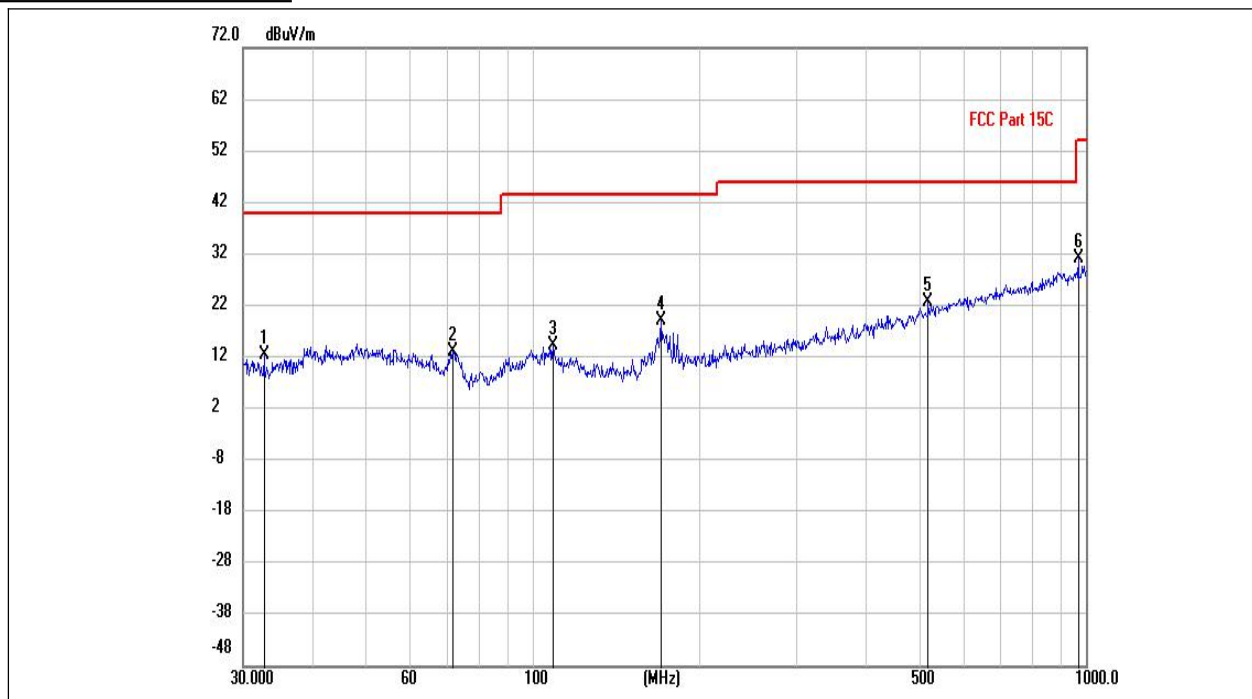
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.000	37.04	---	74.00	36.96	V	-14.49
1098.000	---	26.74	54.00	27.26	V	-14.49
2561.000	40.69	---	68.20	27.51	V	-8.82
3002.000	---	29.93	54.00	24.07	V	-5.36
3492.000	43.59	---	68.20	24.61	V	-4.49
3828.000	---	31.75	54.00	22.25	V	-4.94
4556.000	42.50	---	74.00	31.50	V	-4.47
5711.000	42.52	---	68.20	25.68	V	-2.78
5711.000	---	31.15	54.00	22.85	V	-2.78
6978.000	---	31.60	54.00	22.40	V	-1.51
6999.000	43.97	---	68.20	24.23	V	-1.50
7944.000	---	30.44	54.00	23.56	V	-1.10



(802.11a _5785MHz, Antenna Vertical, 8GHz to 18GHz)

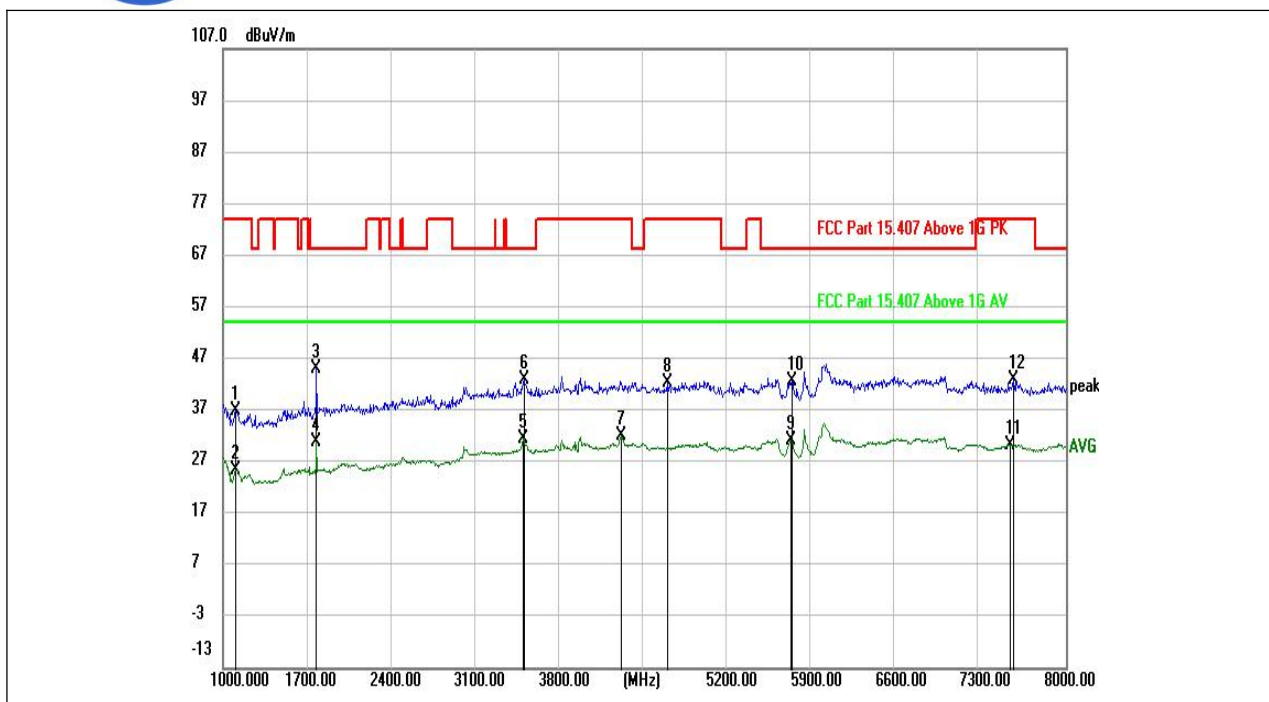
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8530.000	43.80	---	68.20	24.40	V	1.53
9460.000	---	31.86	54.00	22.14	V	2.20
10510.000	43.89	---	68.20	24.31	V	3.87
10510.000	---	32.09	54.00	21.91	V	3.87
12390.000	43.00	---	74.00	31.00	V	4.46
13350.000	---	32.21	54.00	21.79	V	6.53
14400.000	46.35	---	68.20	21.85	V	8.98
15250.000	---	34.63	54.00	19.37	V	10.02
15920.000	47.69	---	74.00	26.31	V	11.20
16320.000	---	35.11	54.00	18.89	V	11.28
17360.000	50.01	---	68.20	18.19	V	13.09
17360.000	---	37.92	54.00	16.08	V	13.09

Plot for Channel = 165



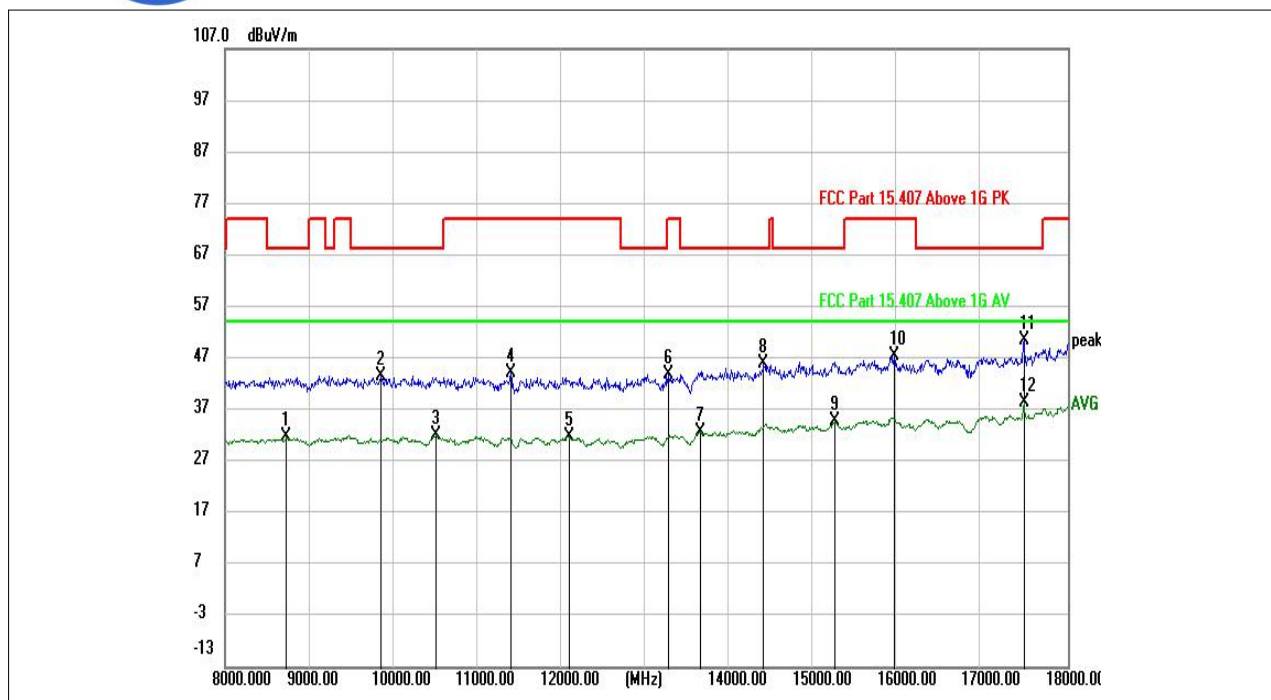
(802.11a _5825MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
32.7486	19.15	---	40.00	27.61	H	12.30
71.8320	18.37	---	40.00	26.81	H	10.69
109.0286	25.32	---	43.50	29.36	H	14.79
170.7926	27.03	---	43.50	24.34	H	12.28
519.0649	32.04	---	46.00	23.41	H	22.10
968.9338	33.39	---	54.00	22.80	H	28.30



(802.11a _5825MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1105.000	36.77	---	74.00	37.23	H	-14.56
1105.000	---	25.58	54.00	28.42	H	-14.56
1777.000	45.17	---	68.20	23.03	H	-11.92
1777.000	---	30.79	54.00	23.21	H	-11.92
3492.000	---	31.61	54.00	22.39	H	-6.92
3499.000	42.87	---	68.20	25.33	H	-7.07
4304.000	---	32.05	54.00	21.95	H	-3.54
4689.000	42.20	---	74.00	31.80	H	-4.05
5718.000	---	31.07	54.00	22.93	H	-2.79
5725.000	42.48	---	68.20	25.72	H	-2.80
7538.000	---	30.40	54.00	23.60	H	-1.39
7566.000	42.80	---	74.00	31.20	H	-1.16



(802.11a _5825MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8730.000	---	31.69	54.00	22.31	H	1.69
9850.000	43.54	---	68.20	24.66	H	2.10
10500.000	---	32.12	54.00	21.88	H	3.19
11390.000	44.20	---	74.00	29.80	H	3.72
12090.000	---	31.71	54.00	22.29	H	4.19
13260.000	43.76	---	74.00	30.24	H	5.91
13640.000	---	32.62	54.00	21.38	H	7.10
14390.000	46.03	---	68.20	22.17	H	9.03
15230.000	---	34.66	54.00	19.34	H	10.02
15940.000	47.43	---	74.00	26.57	H	11.40
17480.000	50.46	---	68.20	17.74	H	13.46
17480.000	---	38.53	54.00	15.47	H	13.46