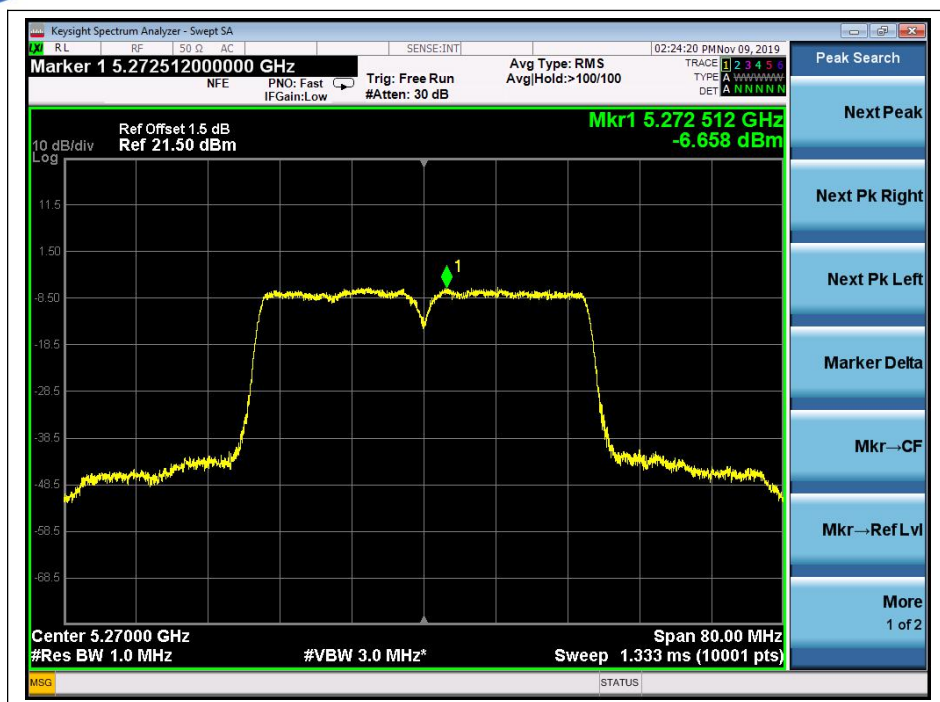
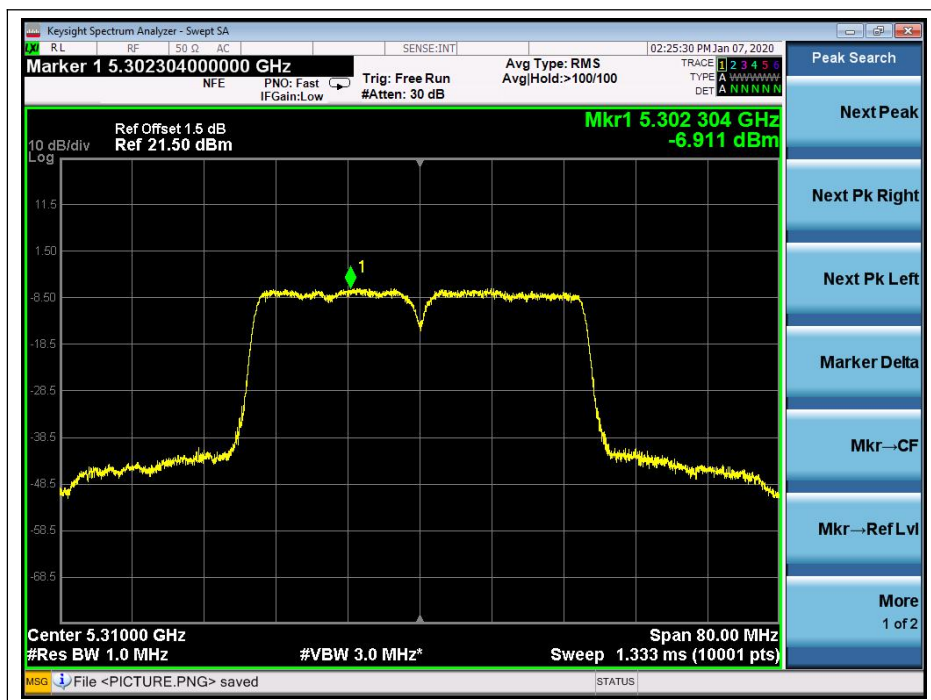
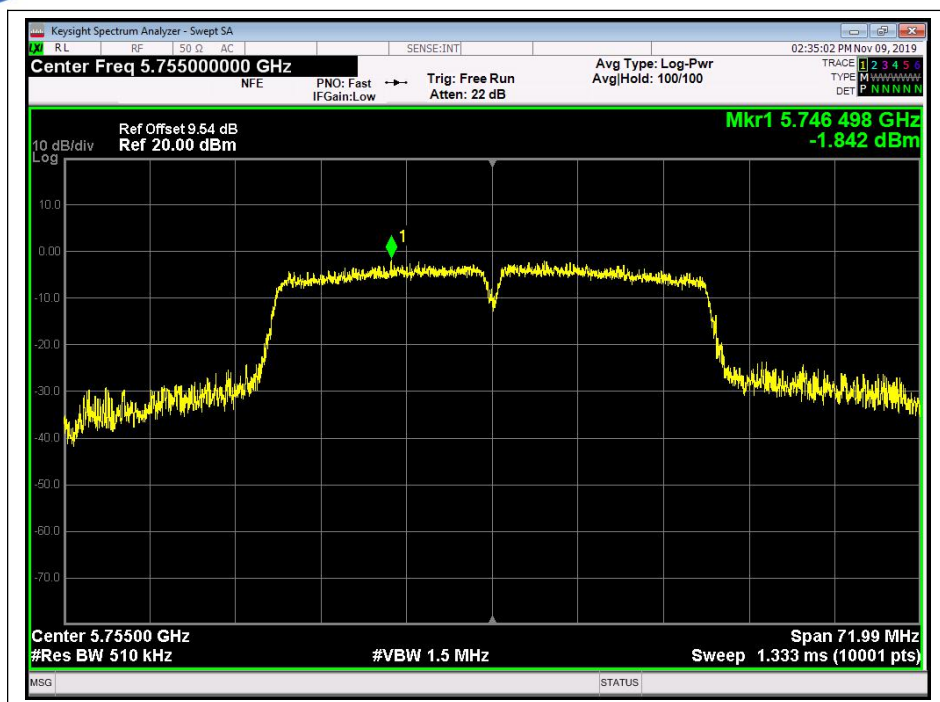




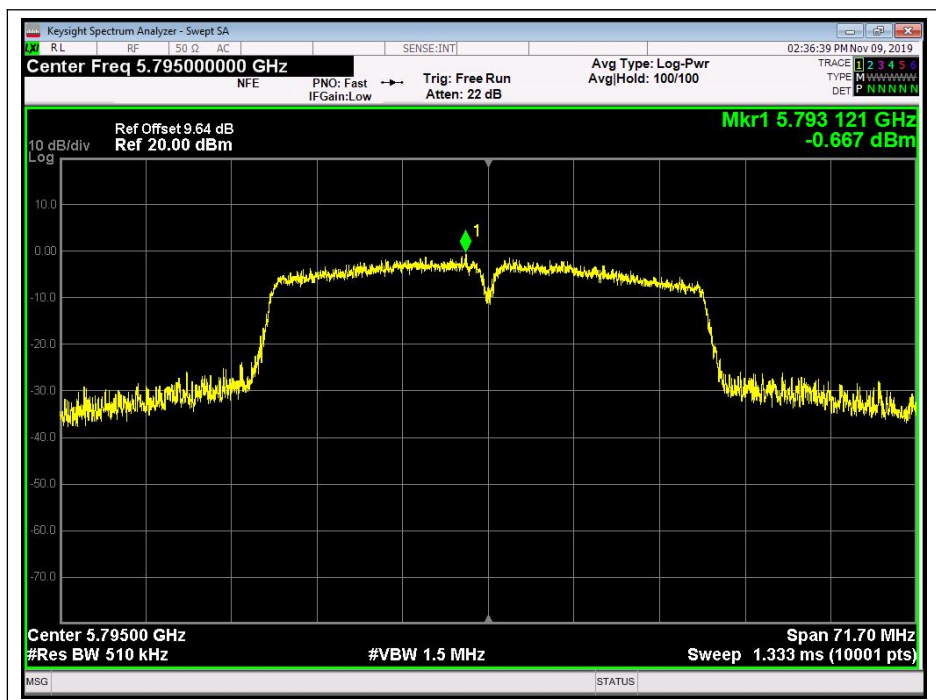
(Channel 54, 5270MHz, 802.11n (HT40))



(Channel 62, 5310 MHz, 802.11n (HT40))



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



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

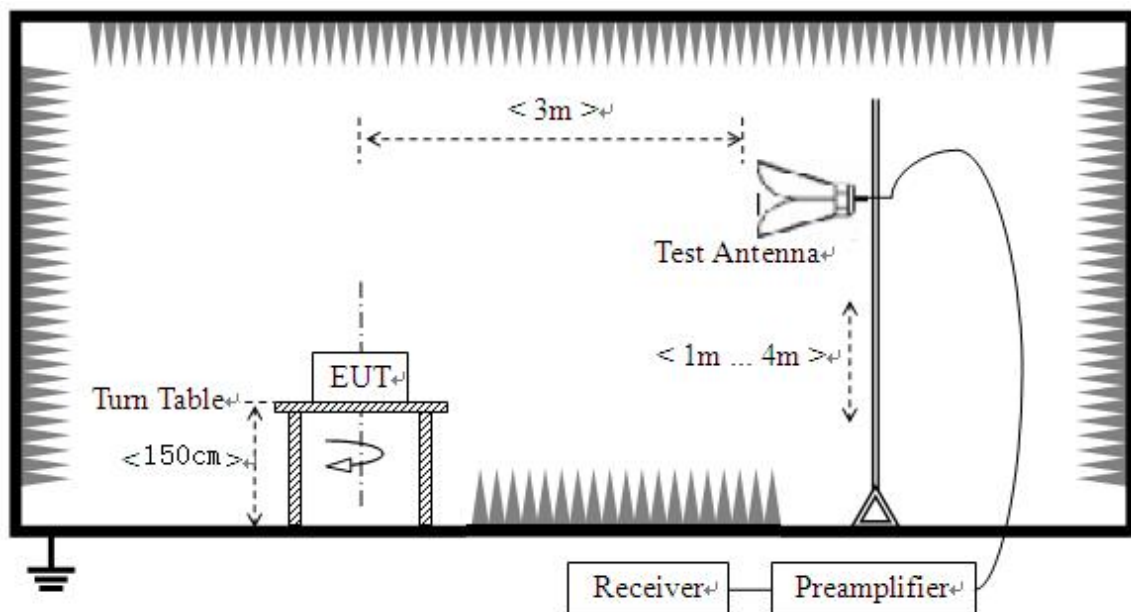
2.5. Restricted Frequency Bands

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

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:

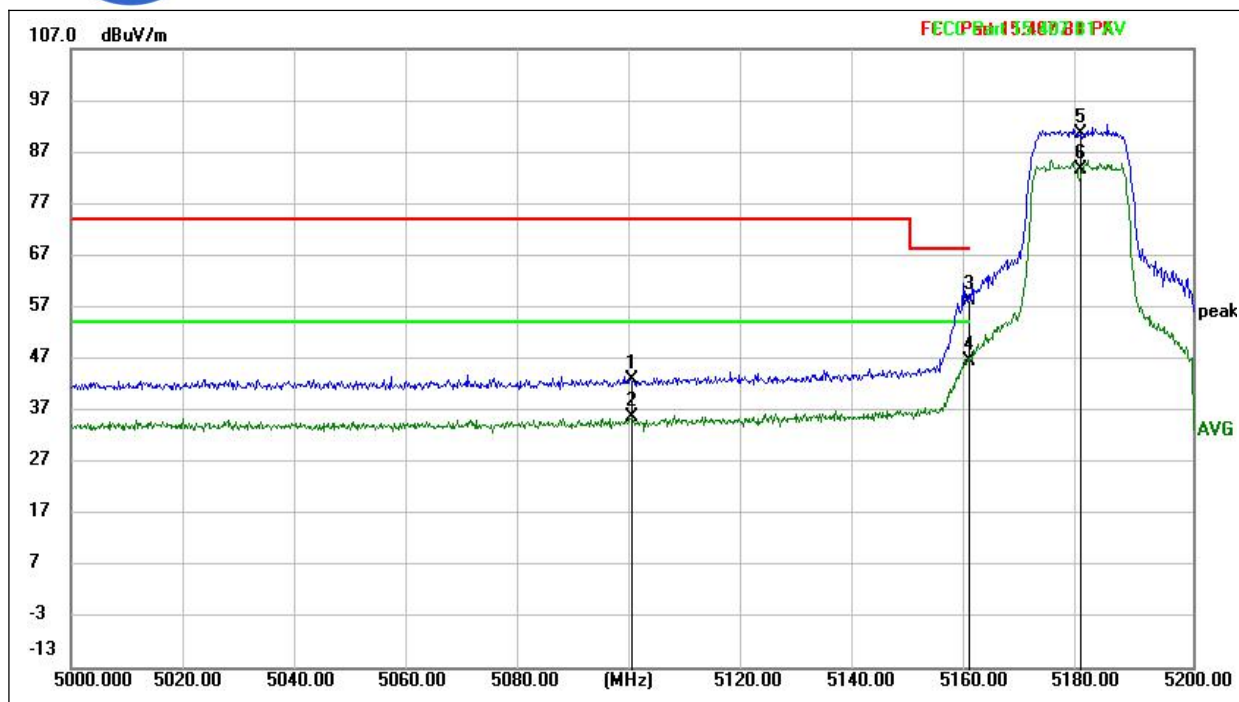
$$E \text{ [dB}\mu\text{V/m]} = U_R + A_{\text{Factor}} \text{ [dB]}; AT = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain; A_{Factor} : Antenna Factor at 3m

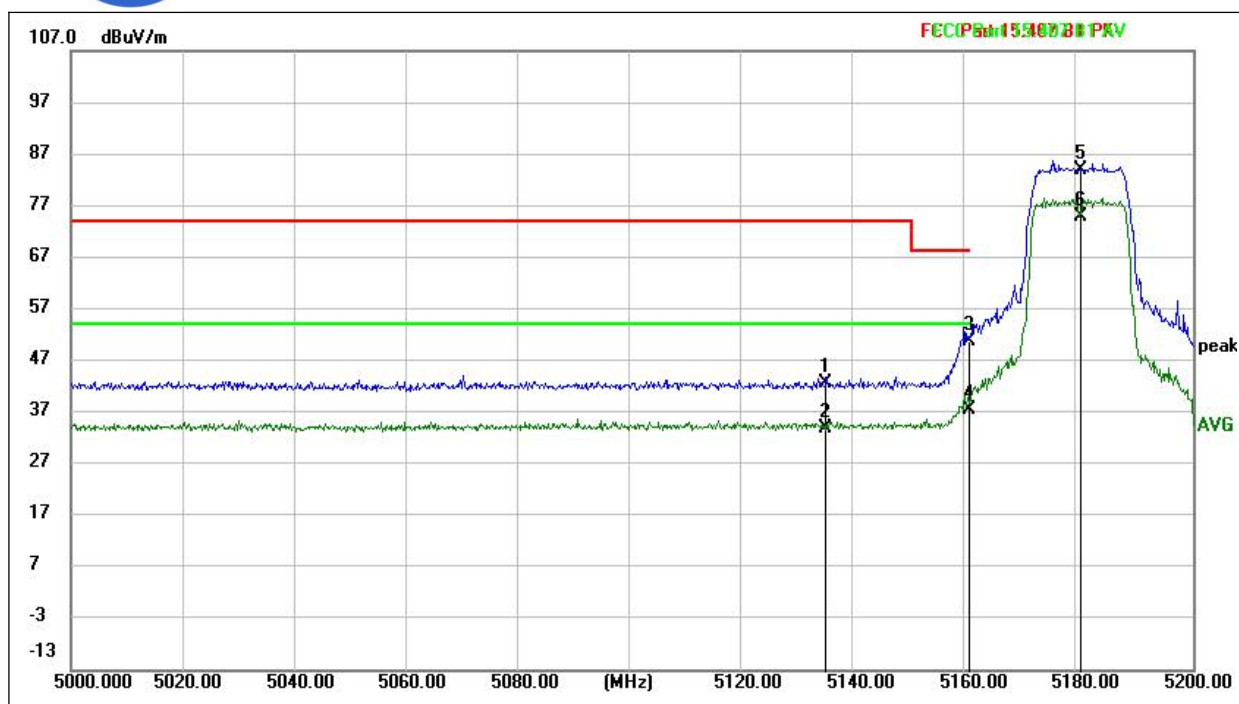
802.11a Test mode

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	5160	PK	61.56	-3.12	58.44	68.30	H	PASS
36	5160	AV	49.74	-3.12	46.62	54.00	H	PASS
36	5160	PK	53.84	-3.12	50.72	68.30	V	PASS
36	5160	AV	40.66	-3.12	37.54	54.00	V	PASS
64	5350	PK	55.11	-2.56	52.55	74.00	H	PASS
64	5350	AV	44.66	-2.56	42.10	54.00	H	PASS
64	5350	PK	51.48	-2.56	48.92	74.00	V	PASS
64	5350	AV	42.32	-2.56	39.76	54.00	V	PASS



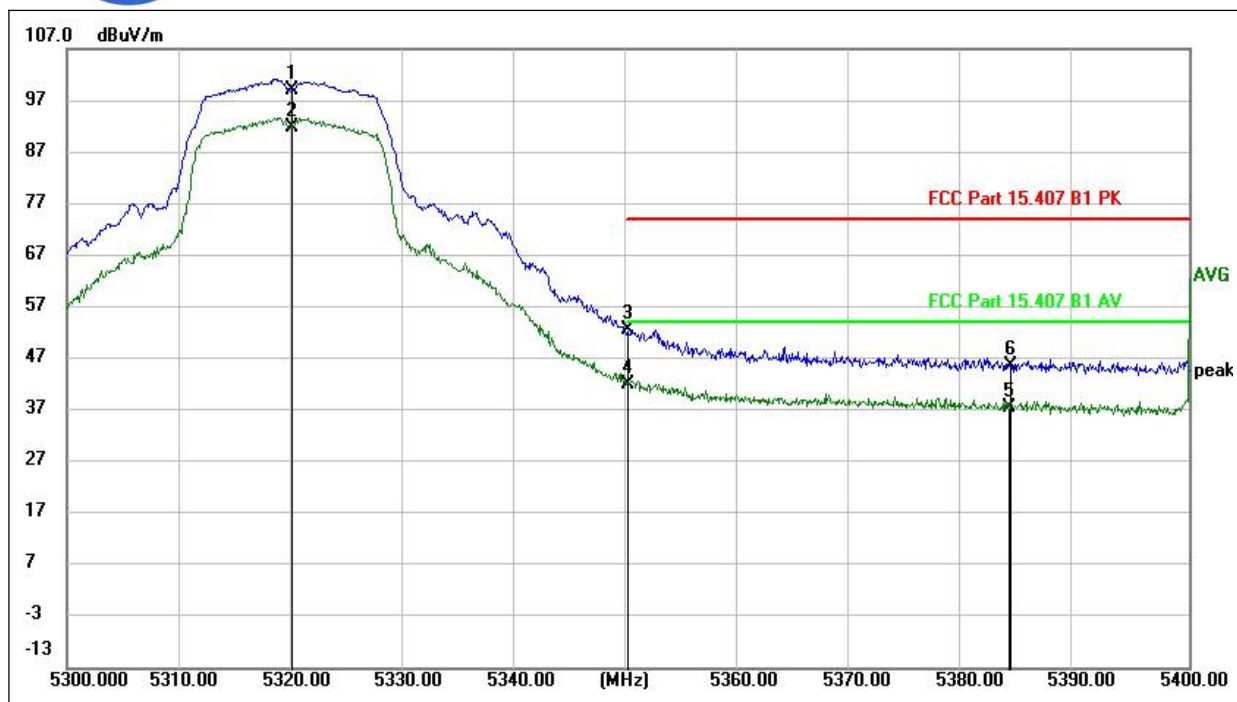
(802.11a_5180MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5100.000	42.93	---	74.00	31.07	H	-3.03
5100.000	---	35.66	54.00	18.34	H	-3.03
5160.000	58.44	---	68.30	9.86	H	-3.12
5160.000	---	46.62	54.00	7.38	H	-3.12
5180.000	90.53	---	---	---	H	-3.04
5180.000	---	83.67	---	---	H	-3.04



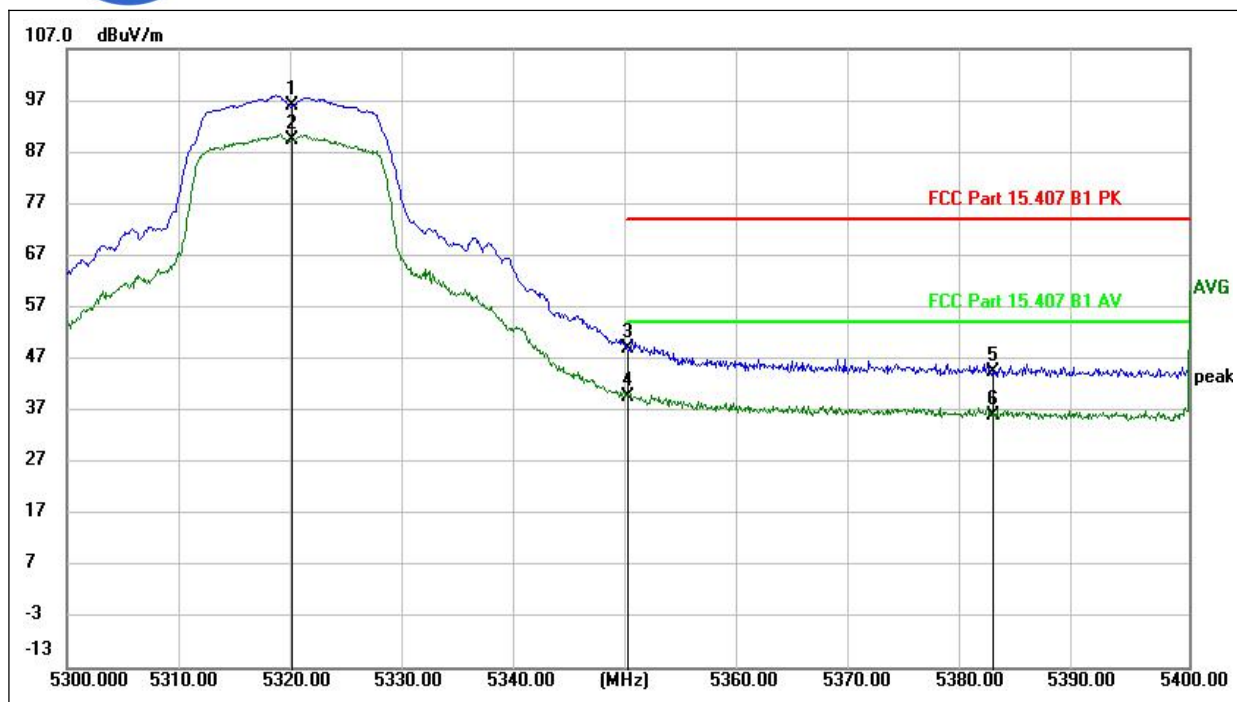
(802.11a_5180MHz, Antenna Vertical)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5134.220	42.65	---	74.00	31.35	V	-3.17
5134.220	---	33.98	54.00	20.02	V	-3.17
5160.000	50.72	---	68.30	17.58	V	-3.12
5160.000	---	37.54	54.00	16.46	V	-3.12
5180.000	83.93	---	---	---	V	-3.04
5180.000	---	75.03	---	---	V	-3.04



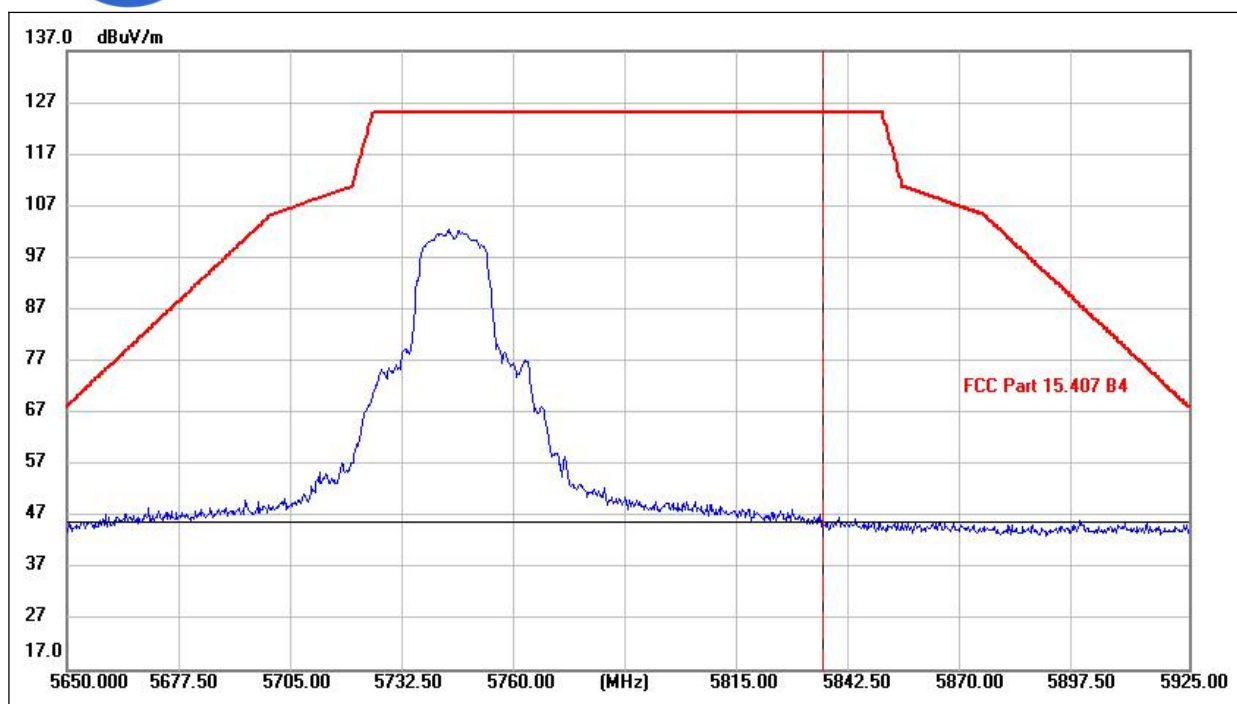
(802.11a _5320MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5320.000	98.99	---	---	---	H	-2.83
5320.000	---	91.78	---	---	H	-2.83
5350.000	52.55	---	74.00	21.45	H	-2.56
5350.000	---	42.10	54.00	11.90	H	-2.56
5383.950	---	37.44	54.00	16.56	H	-2.33
5384.100	45.78	---	74.00	28.22	H	-2.33

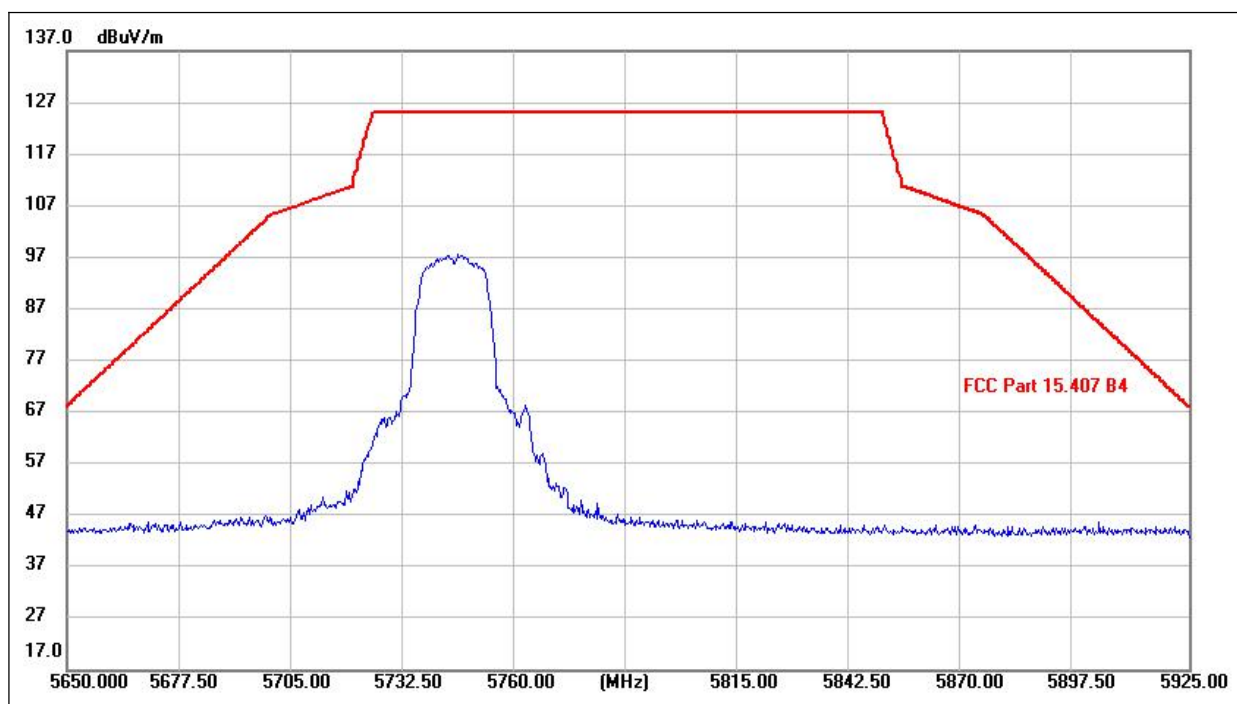


(802.11a_5320MHz, Antenna Vertical)

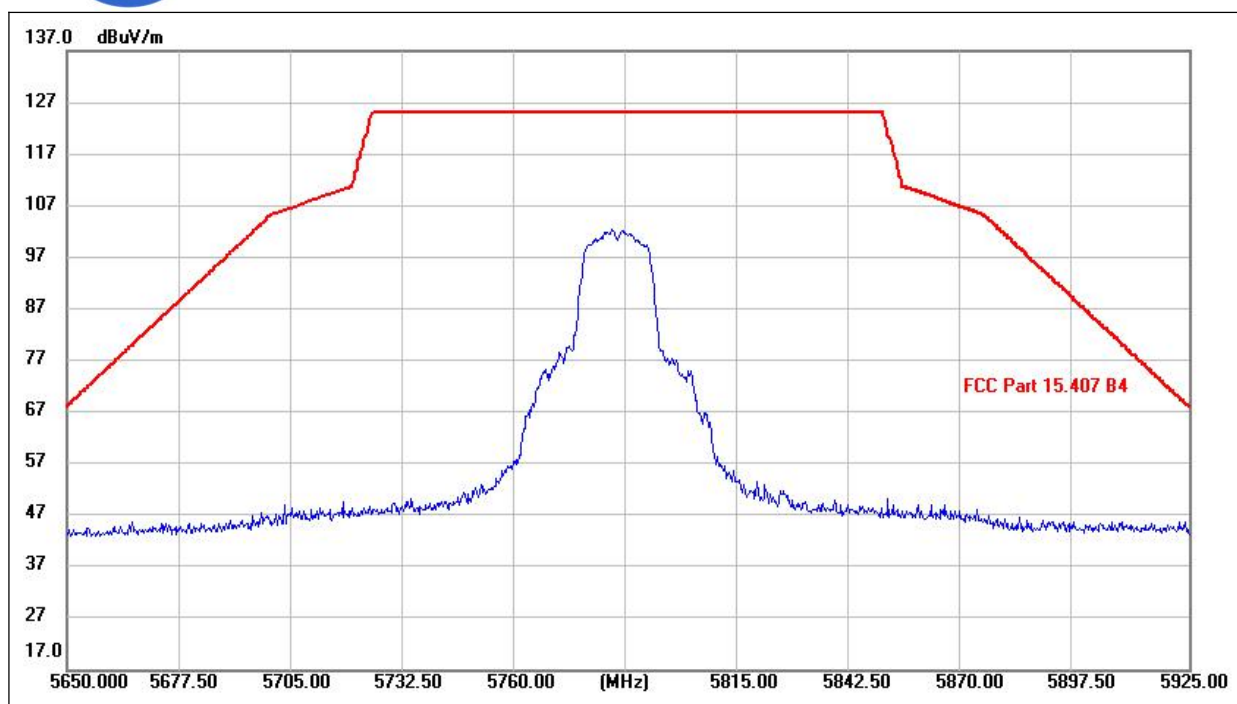
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
5320.000	96.09	---	---	---	V	-2.83
5320.000	---	89.27	---	---	V	-2.83
5350.000	48.92	---	74.00	25.08	V	-2.56
5350.000	---	39.76	54.00	14.24	V	-2.56
5382.445	44.46	---	74.00	29.54	V	-2.31
5382.565	---	36.09	54.00	17.91	V	-2.31



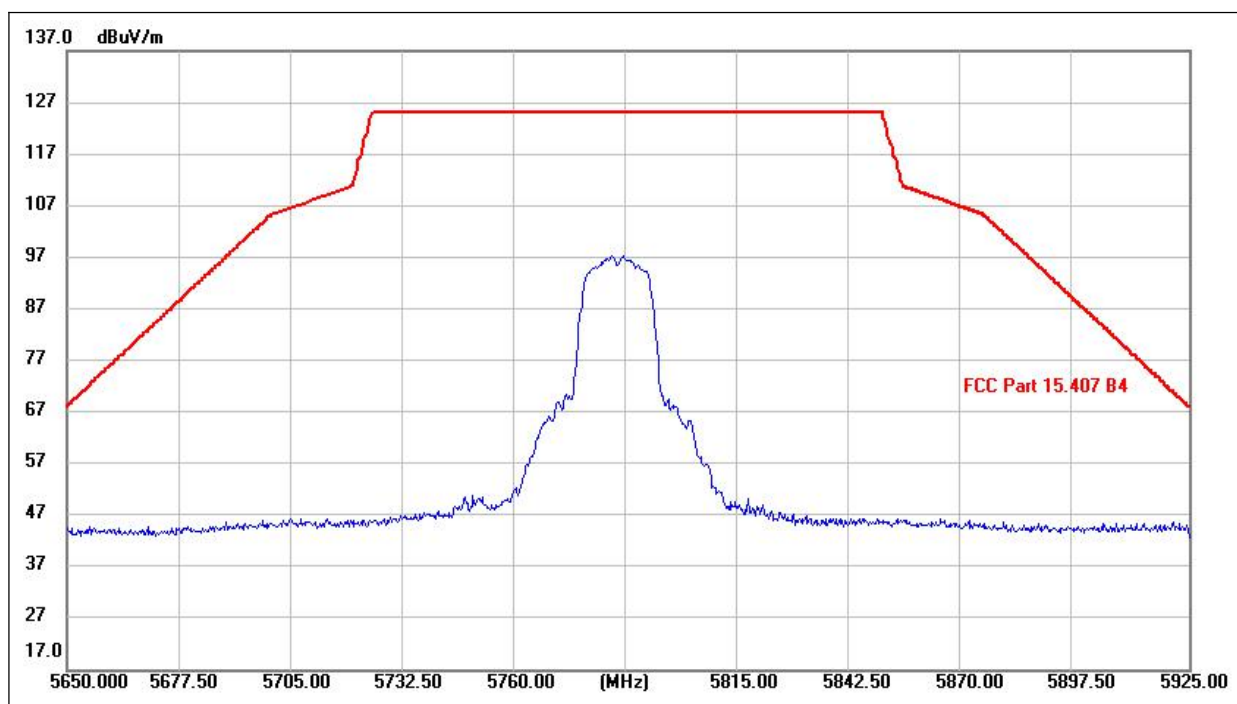
(802.11a_5745MHz, Antenna Horizontal)



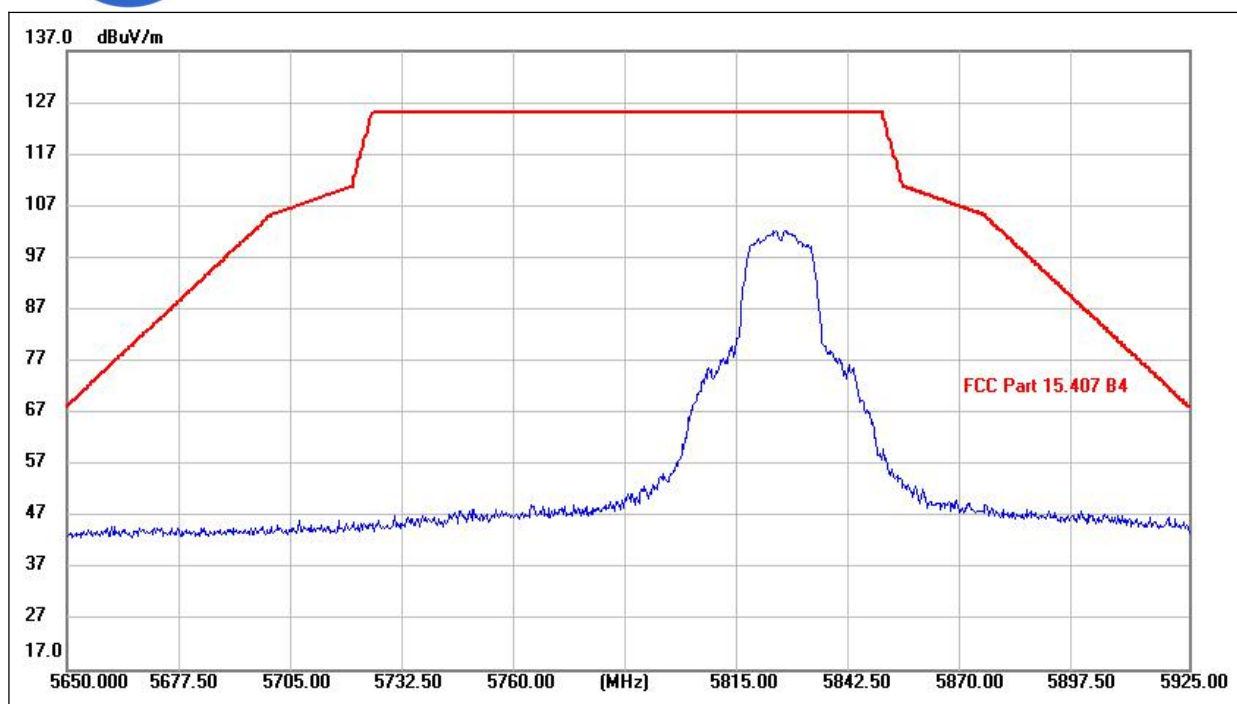
(802.11a_5745MHz, Antenna Vertical)



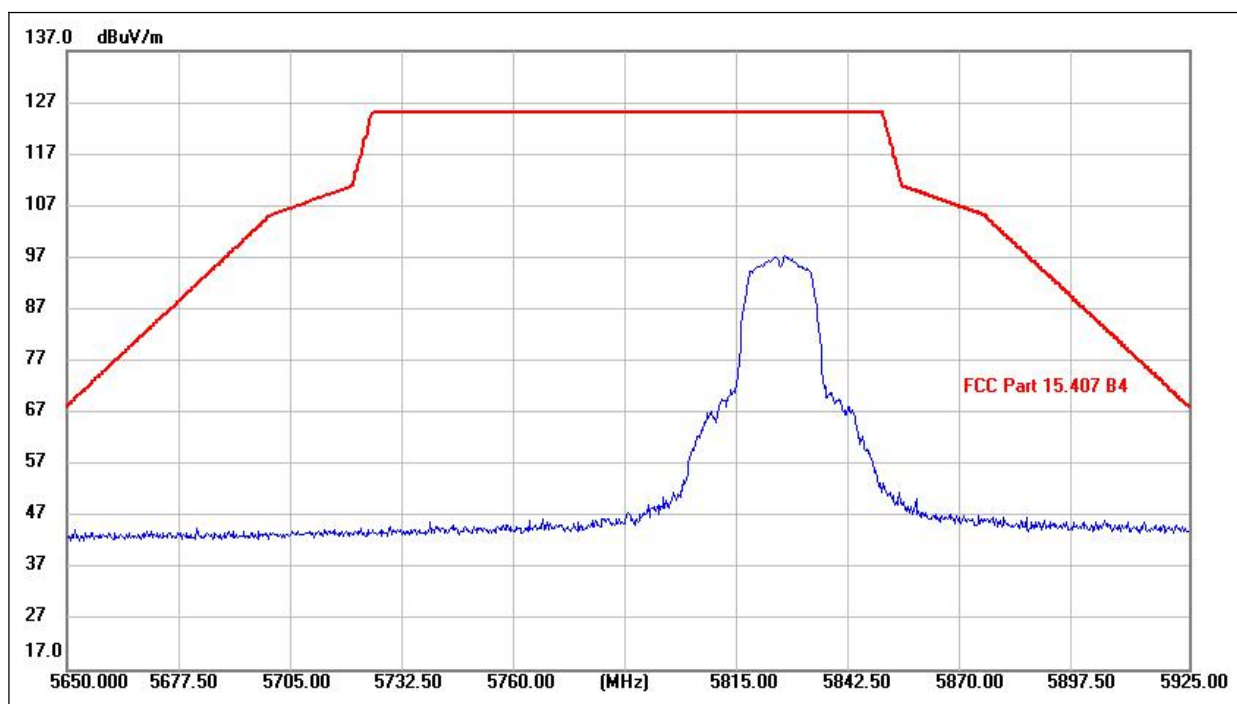
(802.11a_5785MHz, Antenna Horizontal)



(802.11a_5785MHz, Antenna Vertical)



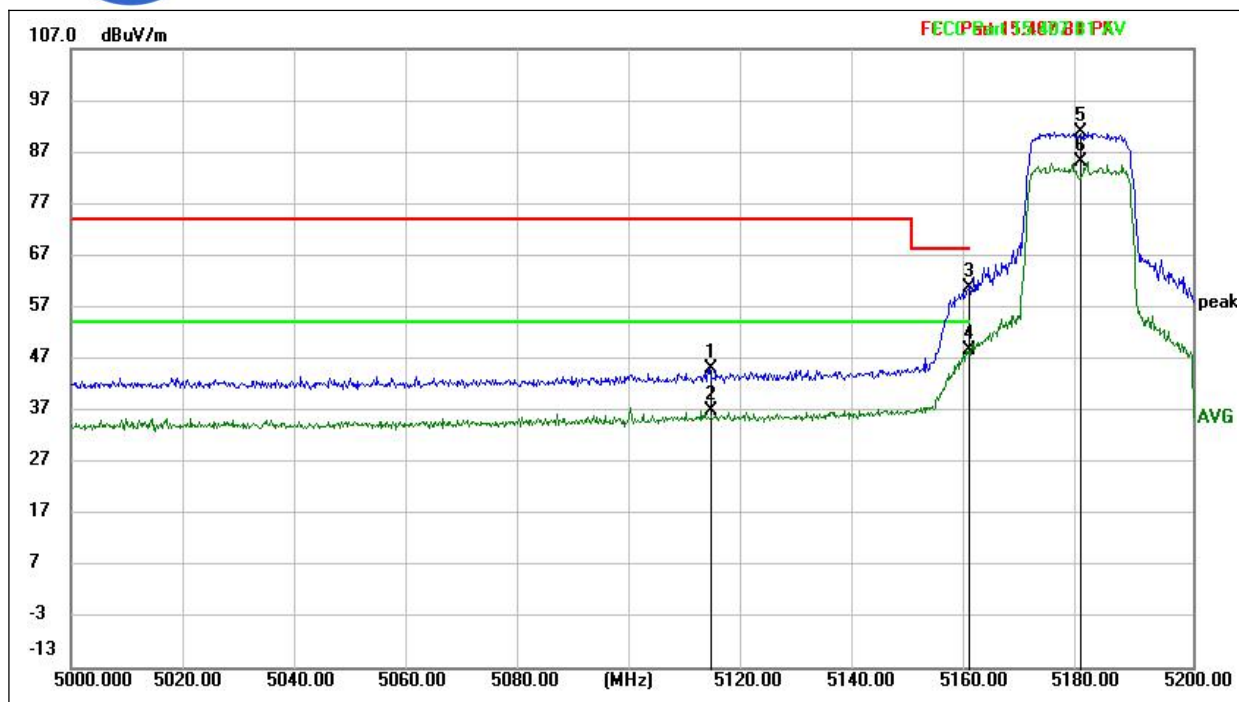
(802.11a_5825MHz, Antenna Horizontal)



(802.11a_5825MHz, Antenna Vertical)

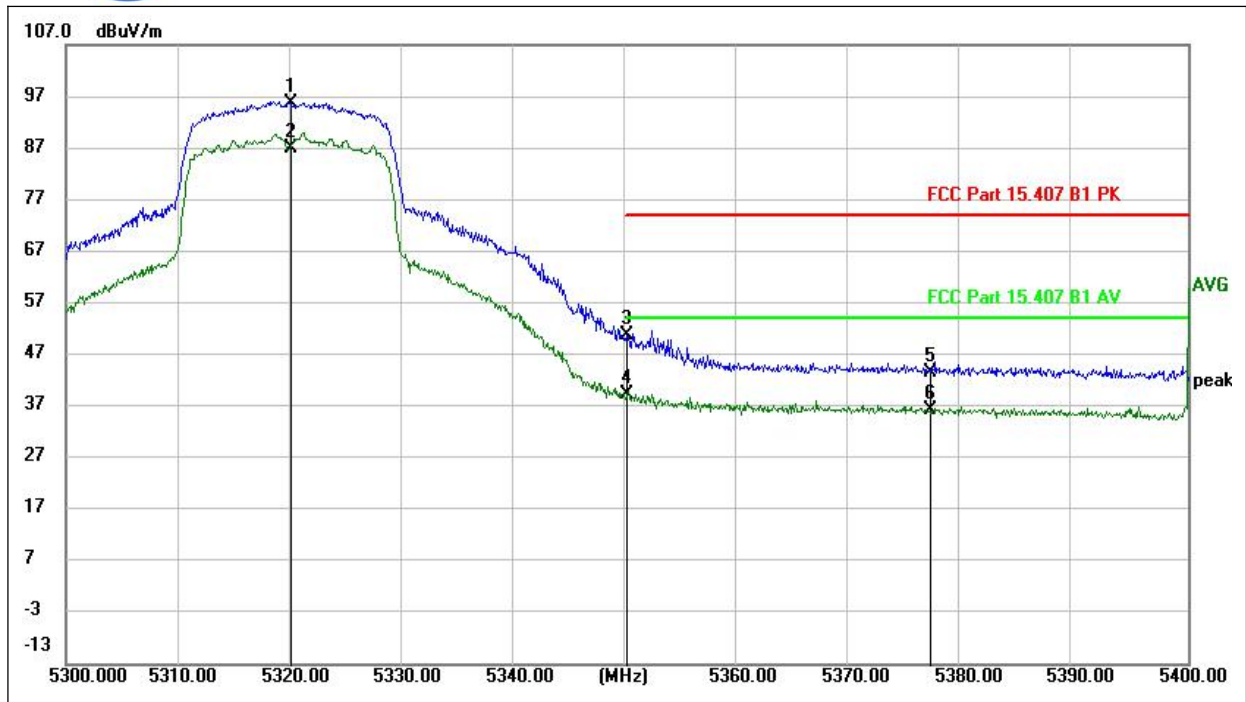
**802.11n (HT20) Test mode**

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	63.90	-3.12	60.78	68.30	H	PASS
36	5160	AV	51.73	-3.12	48.61	54.00	H	PASS
36	5160	PK	55.14	-3.12	52.02	68.30	V	PASS
36	5160	AV	43.54	-3.12	40.42	54.00	V	PASS
64	5350	PK	53.38	-2.56	50.82	74.00	H	PASS
64	5350	AV	41.85	-2.56	39.29	54.00	H	PASS
64	5350	PK	45.79	-2.56	43.23	74.00	V	PASS
64	5350	AV	37.83	-2.56	35.27	54.00	V	PASS



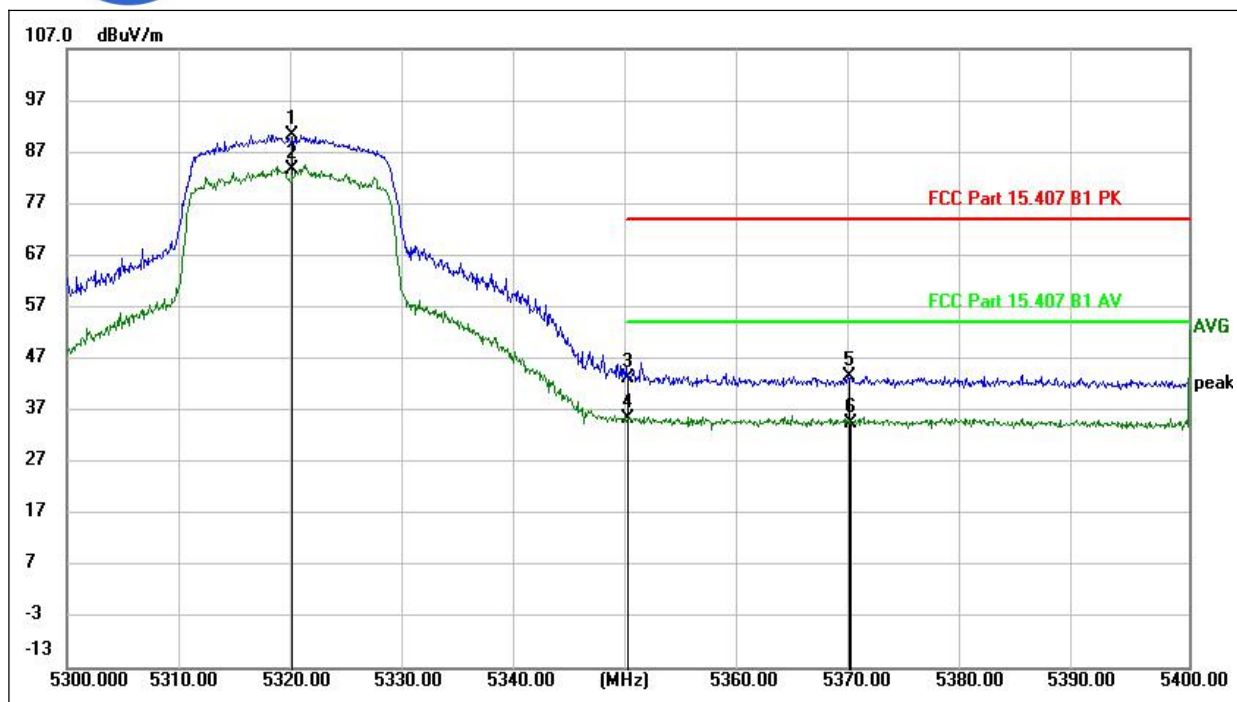
(802.11n (HT20) _5180MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
5113.830	45.03	---	74.00	28.97	H	-3.06
5113.830	---	36.92	54.00	17.08	H	-3.06
5160.000	60.78	---	68.30	7.52	H	-3.12
5160.000	---	48.61	54.00	5.39	H	-3.12
5180.000	90.93	---	---	---	H	-3.04
5180.000	---	85.10	---	---	H	-3.04



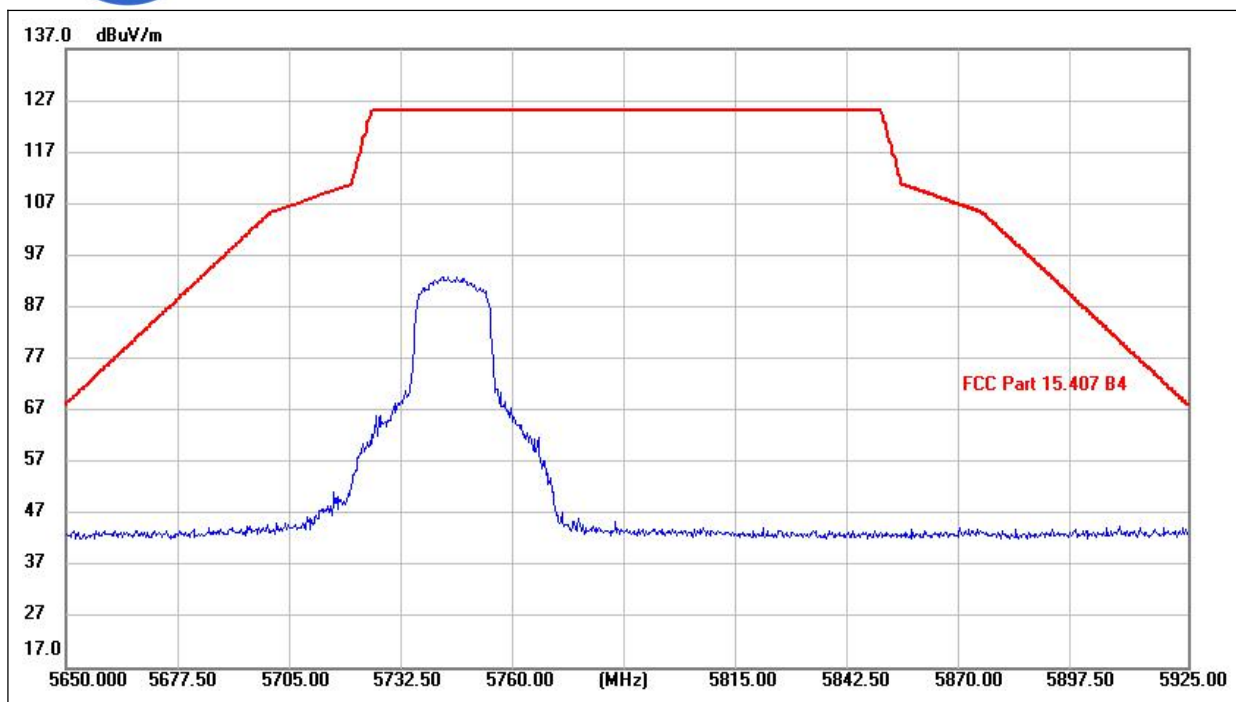
(802.11n (HT20) _5320MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5320.000	95.59	---	---	---	H	-2.83
5320.000	---	87.01	---	---	H	-2.83
5350.000	50.82	---	74.00	23.18	H	-2.56
5350.000	---	39.29	54.00	14.71	H	-2.56
5377.000	43.50	---	74.00	30.50	H	-2.25
5377.000	---	36.38	54.00	17.62	H	-2.25

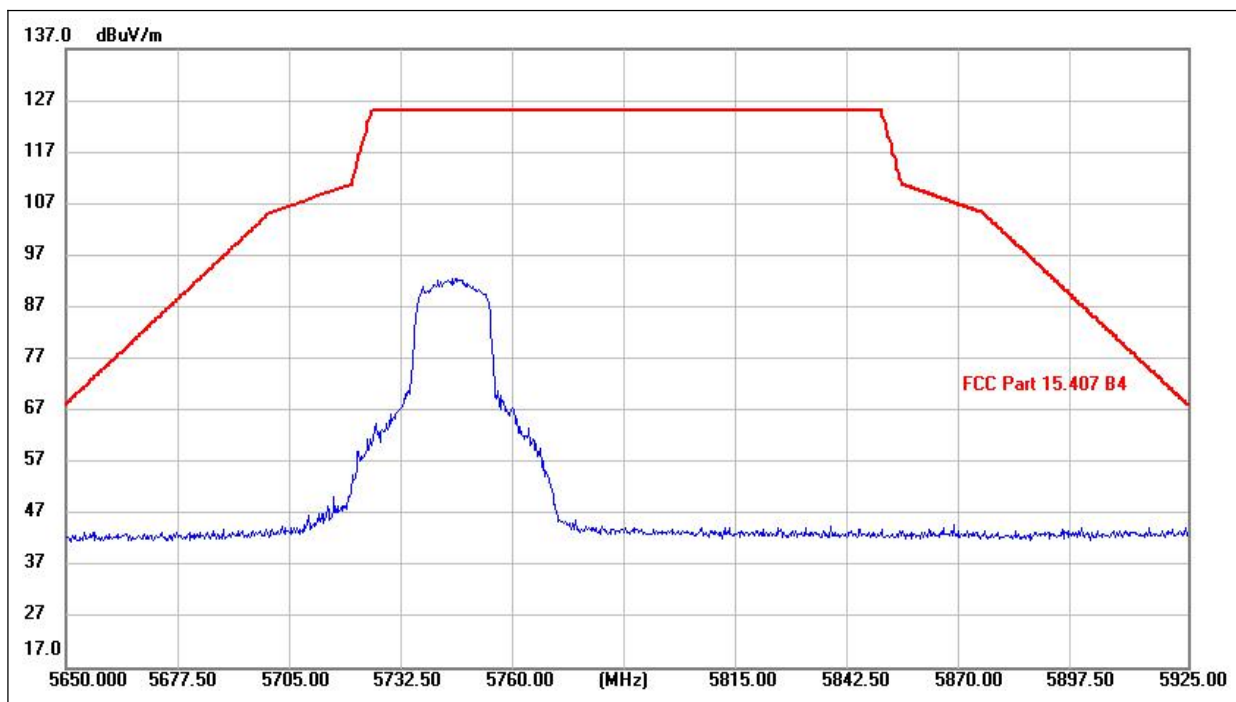


(802.11n (HT20) _5320MHz, Antenna Vertical)

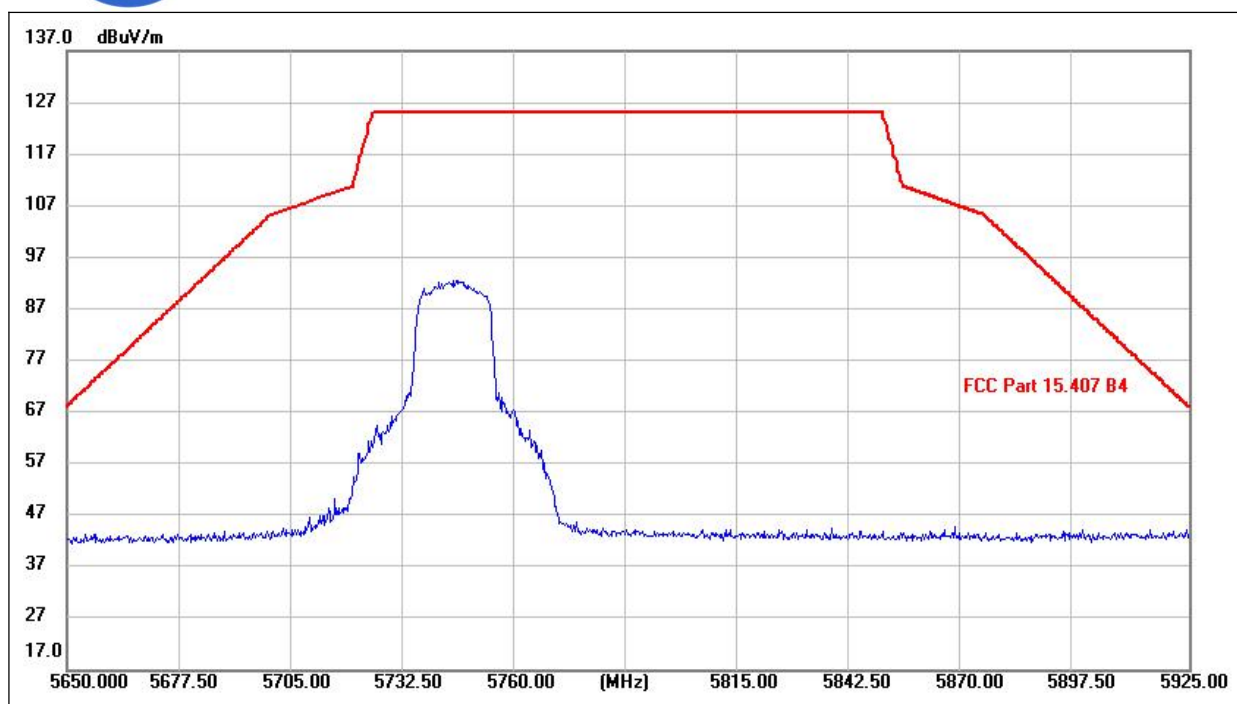
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
5320.000	90.15	---	---	---	V	-2.83
5320.000	---	83.67	---	---	V	-2.83
5350.000	43.23	---	74.00	30.77	V	-2.56
5350.000	---	35.27	54.00	18.73	V	-2.56
5369.700	43.63	---	74.00	30.37	V	-2.28
5369.820	---	34.36	54.00	19.64	V	-2.27



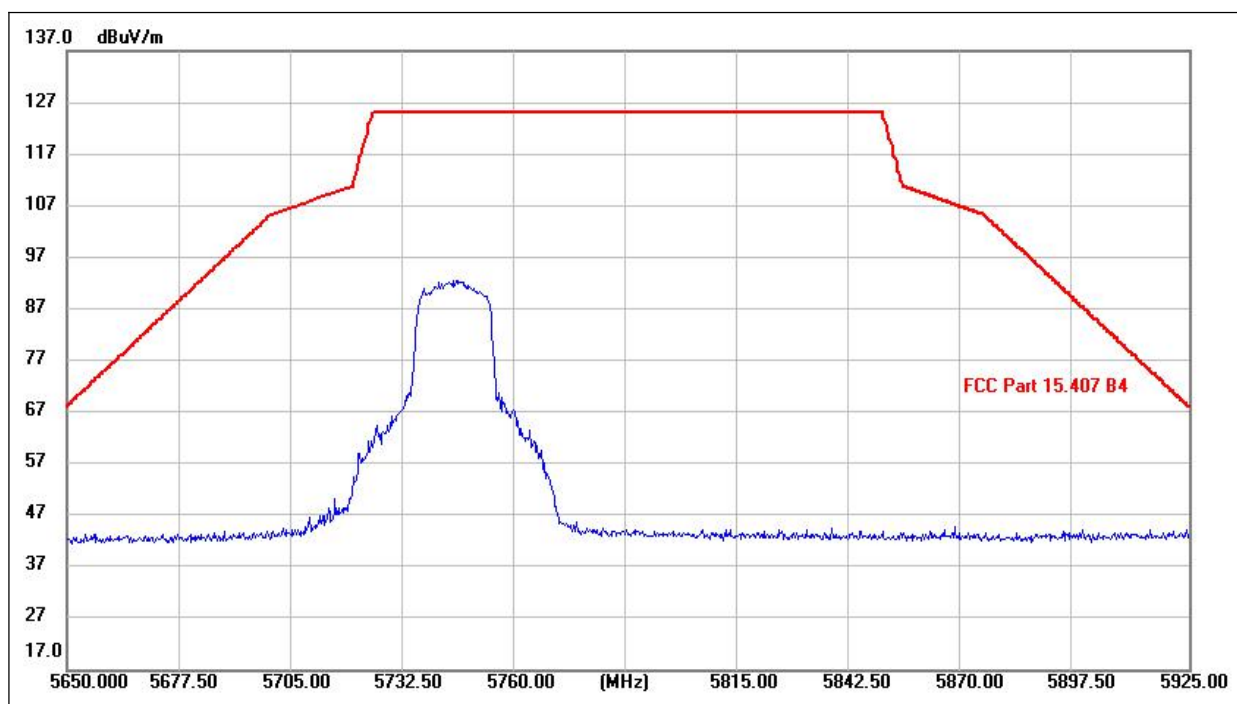
(802.11n(HT20)_5745MHz, Antenna Horizontal)



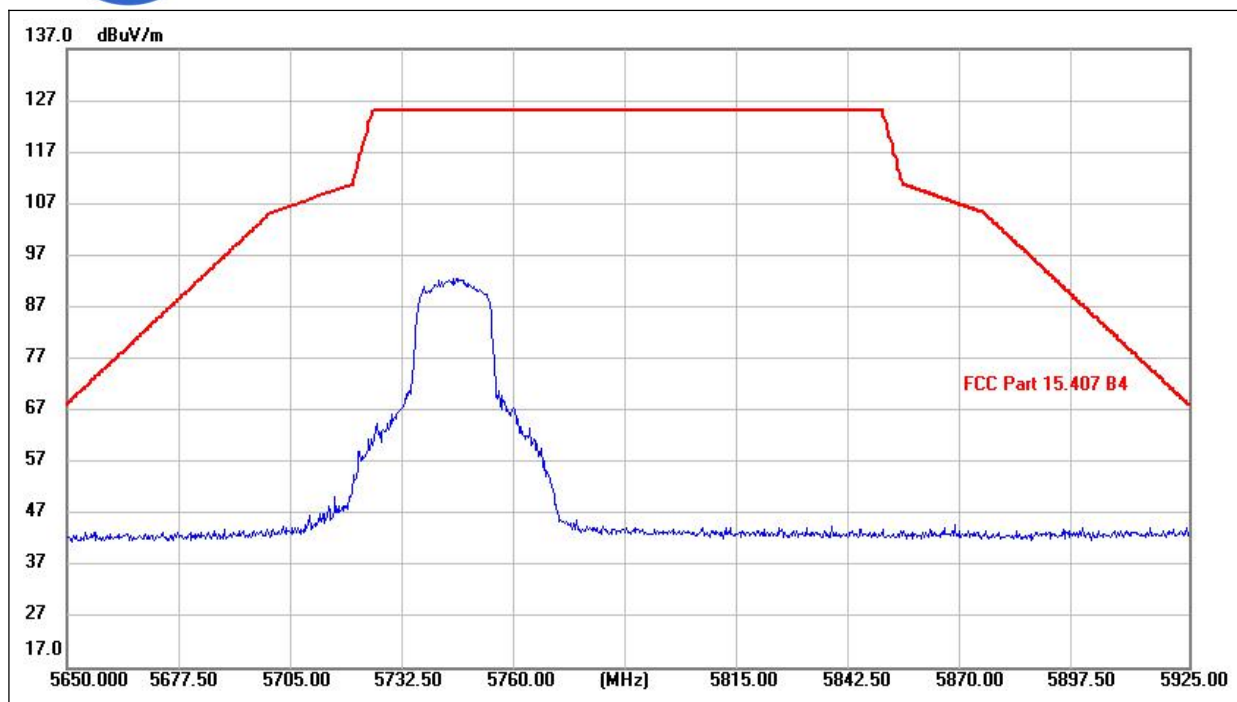
(802.11n(HT20)_5745MHz, Antenna Vertical)



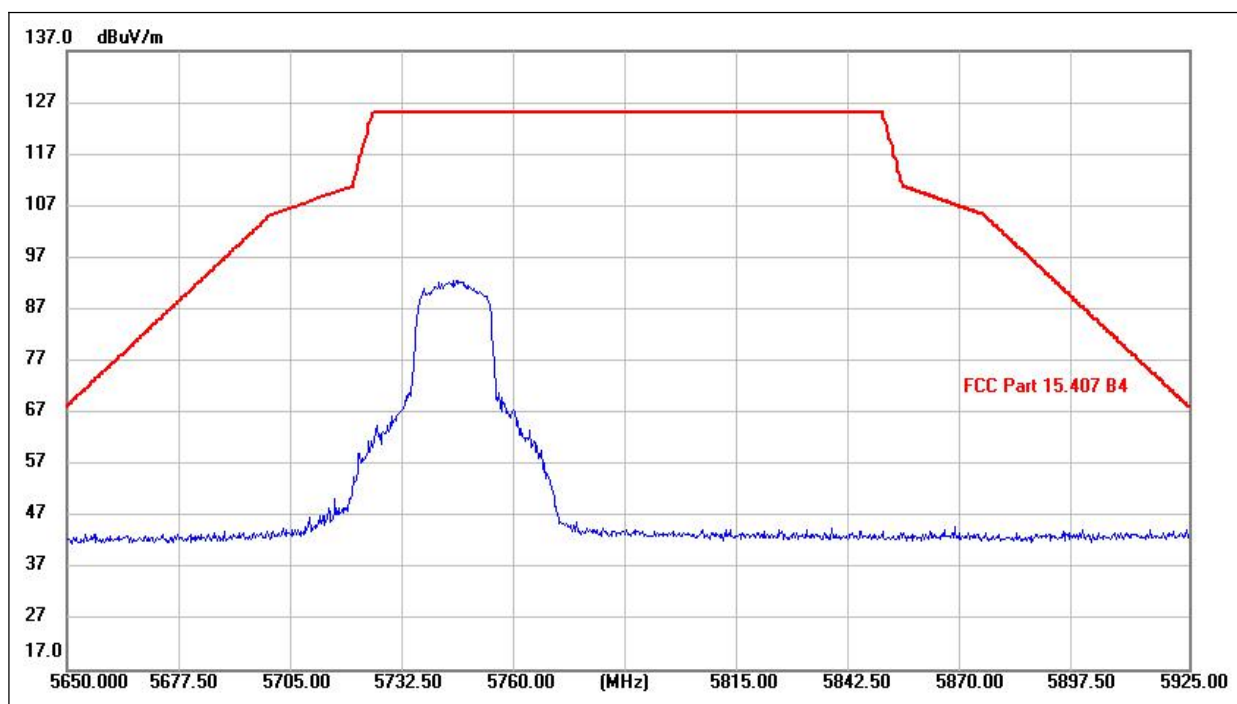
(802.11n(HT20)_5785MHz, Antenna Horizontal)



(802.11n(HT20)_5785MHz, Antenna Vertical)



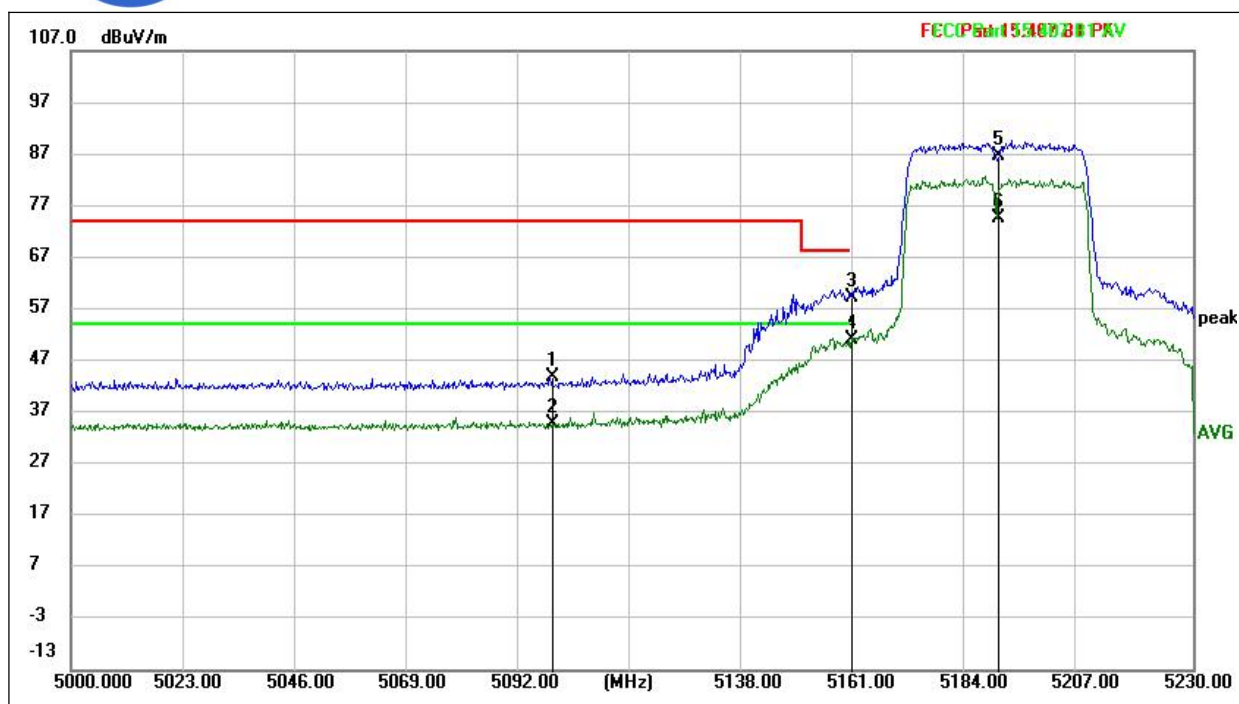
(802.11n(HT20)_5825MHz, Antenna Horizontal)



(802.11n(HT20)_5825MHz, Antenna Vertical)

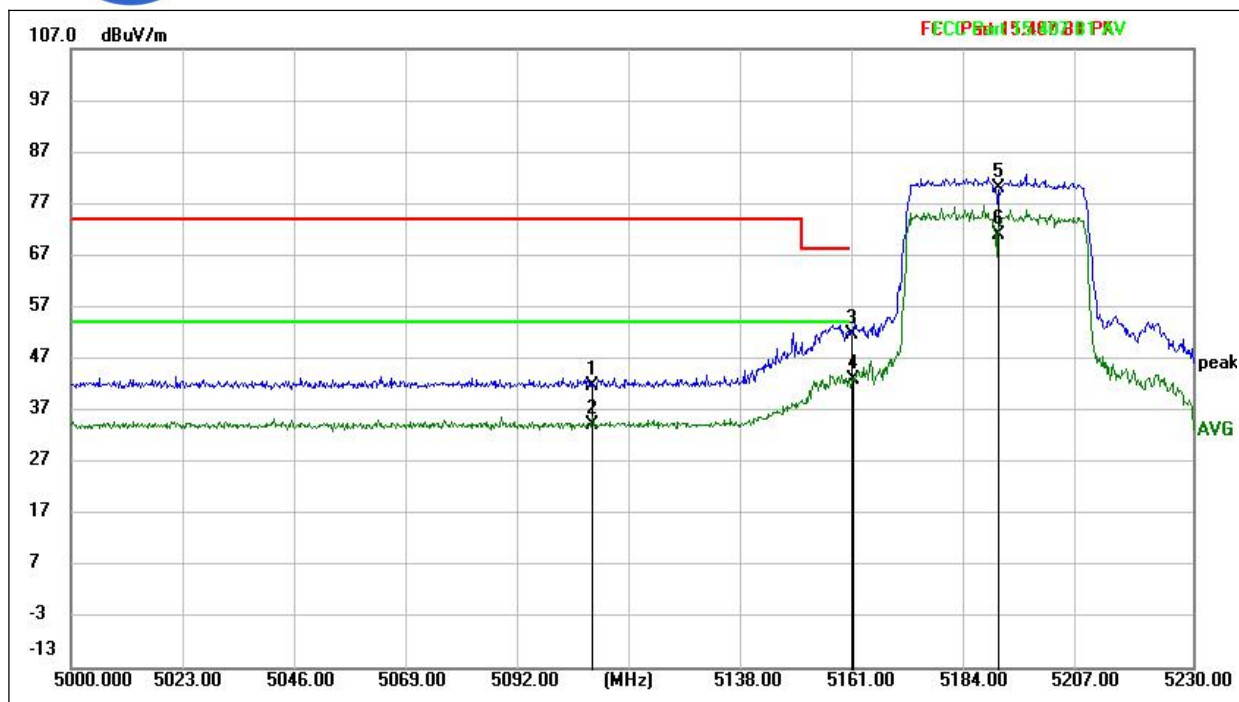
**802.11n (HT40) Test mode**

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	62.40	-3.12	59.28	68.30	H	PASS
38	5160	AV	54.13	-3.12	51.01	54.00	H	PASS
38	5160	PK	54.92	-3.12	51.80	68.30	V	PASS
38	5160	AV	45.93	-3.12	42.81	54.00	V	PASS
62	5350	PK	52.82	-2.56	50.26	74.00	H	PASS
62	5350	AV	43.07	-2.56	40.51	54.00	H	PASS
62	5350	PK	47.42	-2.56	44.86	74.00	V	PASS
62	5350	AV	38.58	-2.56	36.02	54.00	V	PASS



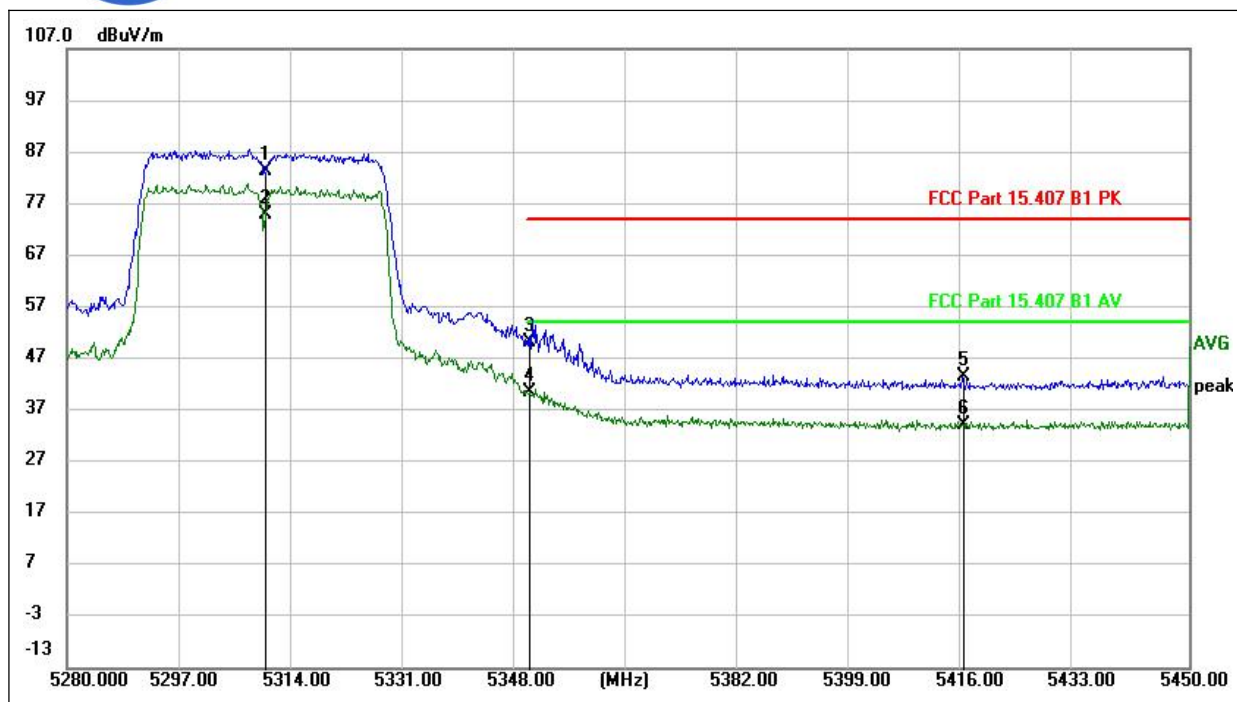
(802.11n (HT40) _5190MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5098.463	43.78	---	74.00	30.22	H	-3.03
5098.463	---	34.72	54.00	19.28	H	-3.03
5160.000	59.28	---	68.30	9.02	H	-3.12
5160.000	---	51.01	54.00	2.99	H	-3.12
5190.000	86.52	---	---	---	H	-3.02
5190.000	---	74.73	---	---	H	-3.02



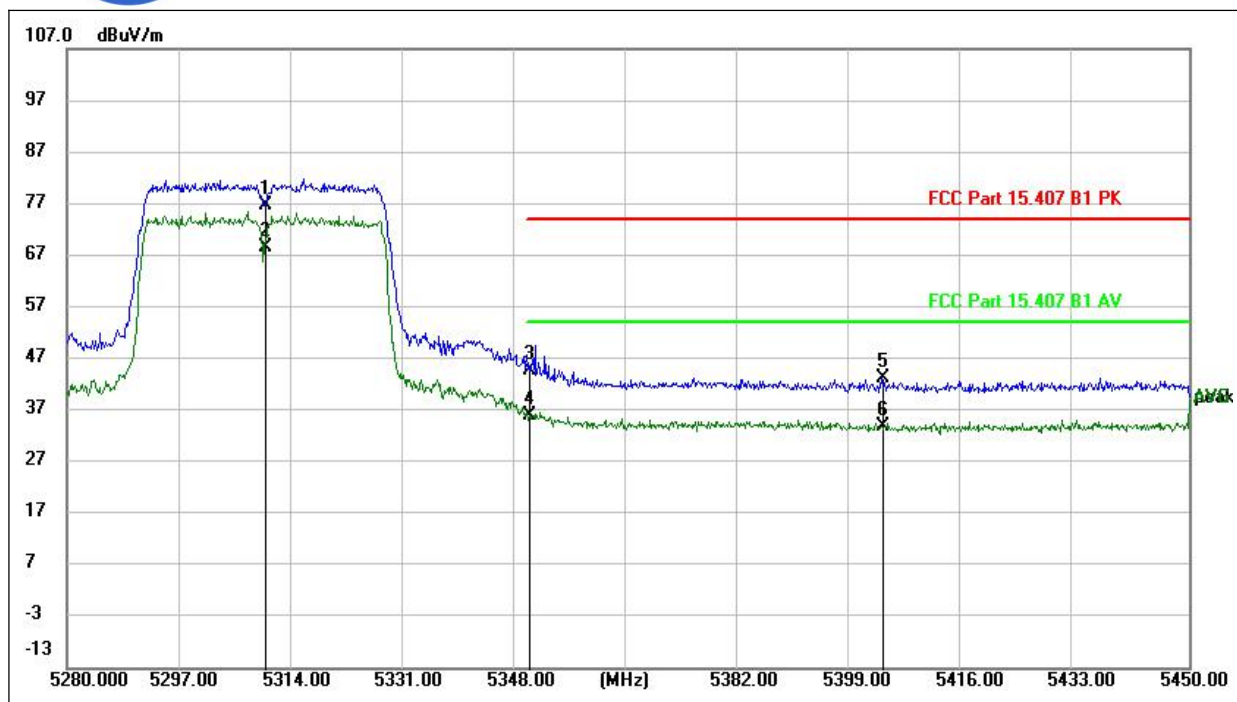
(802.11n (HT40) _5190MHz, Antenna Vertical)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5106.789	41.76	---	74.00	32.24	V	-3.04
5106.789	---	34.24	54.00	19.76	V	-3.04
5160.000	51.80	---	68.30	16.50	V	-3.12
5160.000	---	42.81	54.00	2.19	V	-3.12
5190.000	80.01	---	---	---	V	-3.02
5190.000	---	71.08	---	---	V	-3.02



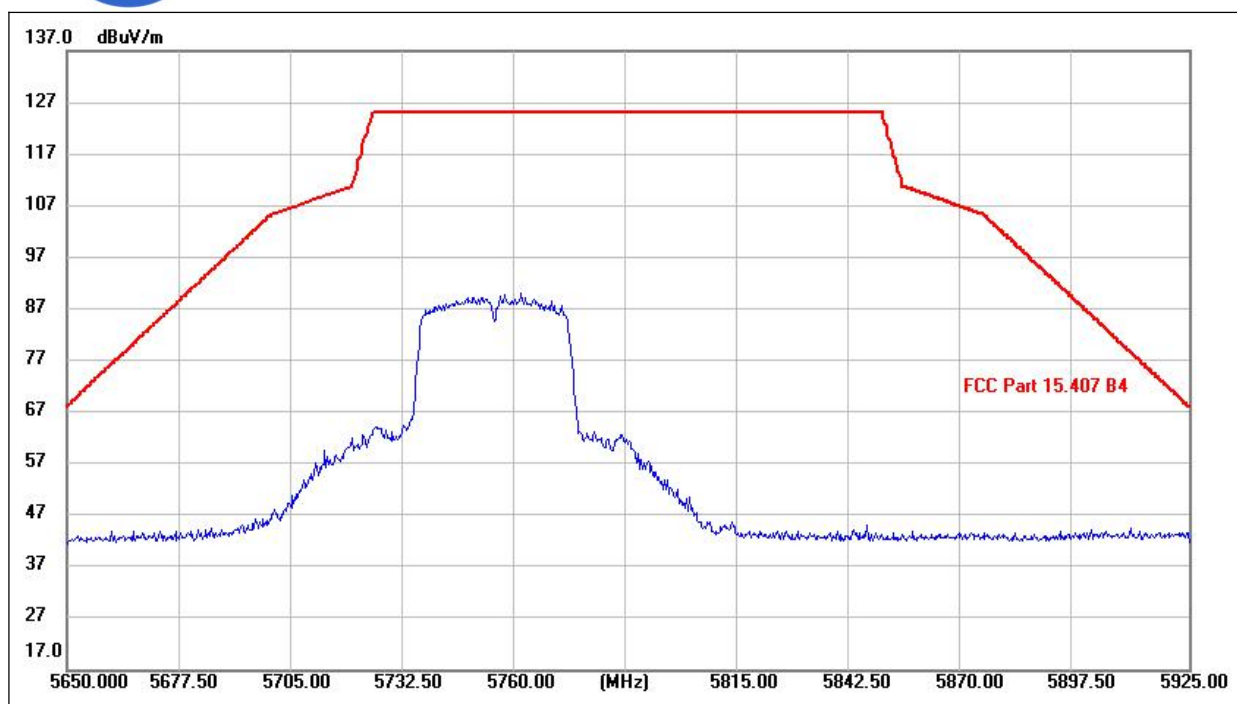
(802.11n (HT40) _5310MHz, Antenna Horizontal)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
5310.000	83.29	---	---	---	H	-2.88
5310.000	---	75.00	---	---	H	-2.88
5350.000	50.26	---	74.00	23.74	H	-2.56
5350.000	---	40.51	54.00	13.49	H	-2.56
5415.822	43.47	---	74.00	30.53	H	-2.68
5415.822	---	34.06	54.00	19.94	H	-2.68

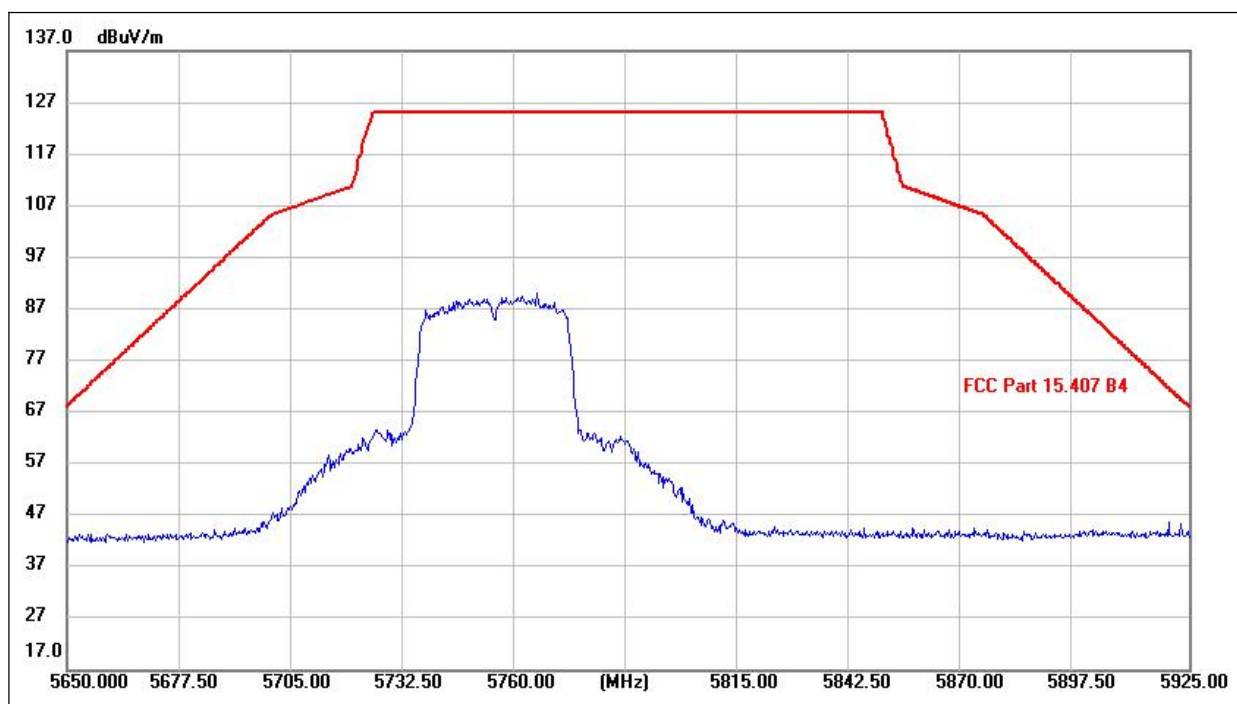


(802.11n (HT40) _5310MHz, Antenna Vertical)

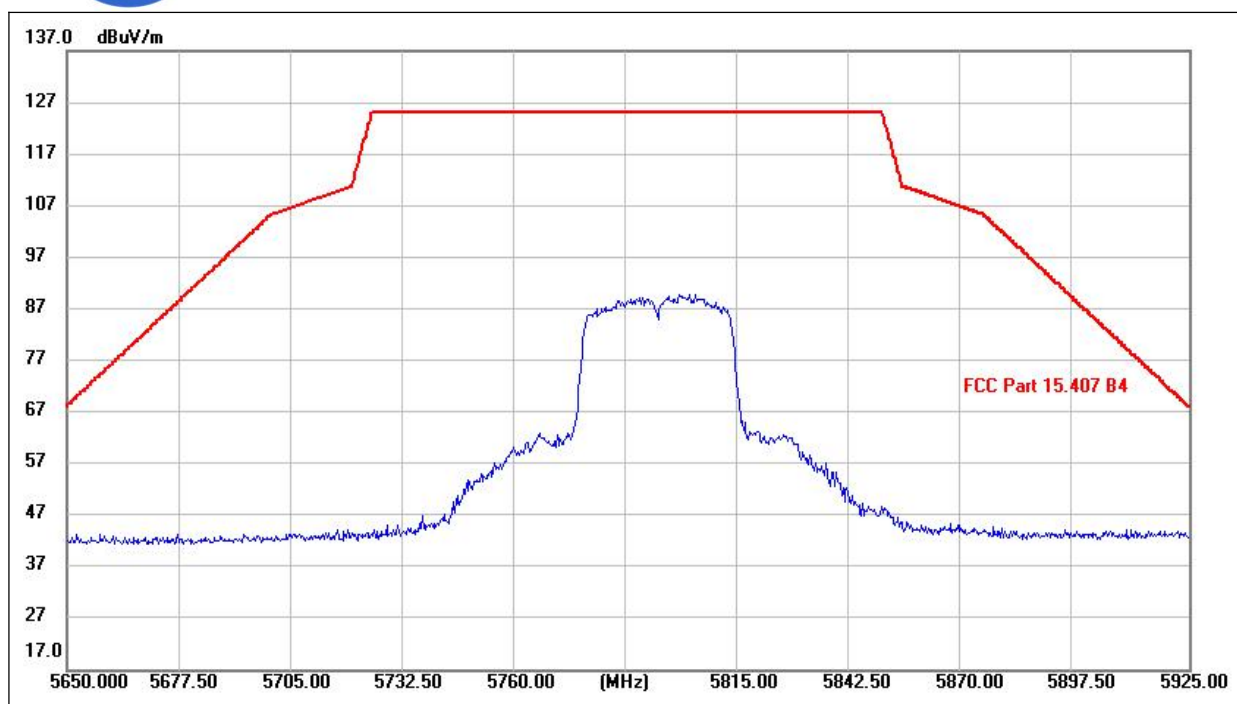
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
5310.000	76.69	---	---	---	V	-2.88
5310.000	---	68.52	---	---	V	-2.88
5350.000	44.86	---	76.69	76.69	V	-2.56
5350.000	---	36.02	68.52	68.52	V	-2.56
5403.632	43.32	---	44.86	44.86	V	-2.54
5403.632	---	33.83	36.02	36.02	V	-2.54



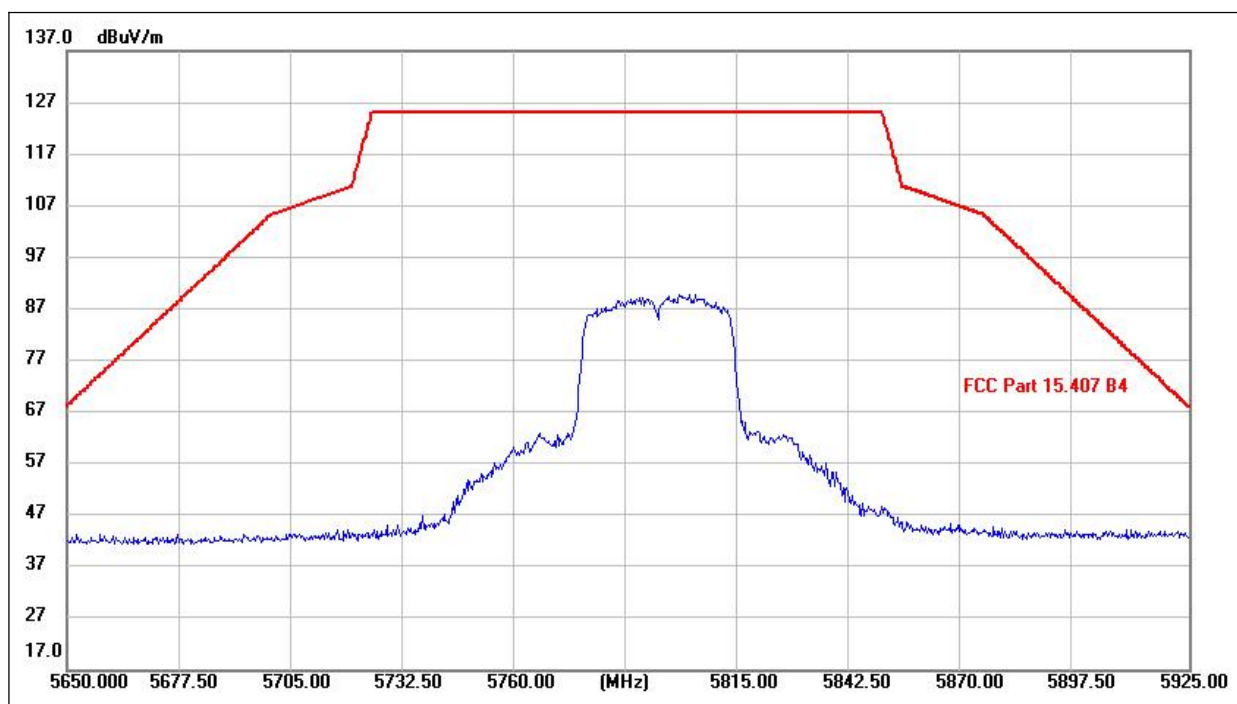
(802.11n(HT40) _5755MHz, Antenna Horizontal)



(802.11n(HT40) _5755MHz, Antenna Vertical)



(802.11n(HT40)_5795MHz, Antenna Horizontal)



(802.11n(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 -15°C to 55°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	+25(Ref)	5179.980	-20000	-3.86
100%		-15	5179.986	-14000	-2.70
100%		-5	5179.970	-30000	-5.79
100%		5	5179.978	-22000	-4.24
100%		+15	5179.980	-20000	-3.86
100%		+25	5179.964	-36000	-6.94
100%		+35	5179.971	-29000	-5.59
100%		+45	5179.984	-16000	-3.08
100%		+55	5179.970	-30000	-5.79
85%	3.5	+25	5179.977	-23000	-4.44
115%	4.35	+25	5179.986	-14000	-2.70

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



VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq Dev. (Hz)	Deviation (%)
100%	3.8	+25(Ref)	5260.025	25000	4.75
100%		-15	5260.033	33000	6.27
100%		-5	5260.040	40000	7.60
100%		5	5260.034	34000	6.46
100%		+15	5260.012	12000	2.28
100%		+25	5260.013	13000	2.47
100%		+35	5260.020	20000	3.80
100%		+45	5260.031	31000	5.89
100%		+55	5260.030	30000	5.70
85%	3.5	+25	5260.034	34000	6.46
115%	4.35	+25	5260.021	21000	3.99

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

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq Dev. (Hz)	Deviation (%)
100%	3.8	+25(Ref)	5745.040	40000	6.96
100%		-15	5745.044	44000	7.65
100%		-5	5745.034	34000	5.91
100%		5	5745.039	39000	6.78
100%		+15	5745.044	44000	7.65
100%		+25	5745.038	38000	6.61
100%		+35	5745.065	65000	5.40
100%		+45	5745.044	44000	7.66
100%		+55	5745.038	38000	6.61
100%		+25	5745.036	42000	6.26
85%	3.5	+25	5745.042	45000	7.31
115%	4.35	+25(Ref)	5745.032	32000	5.57

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).

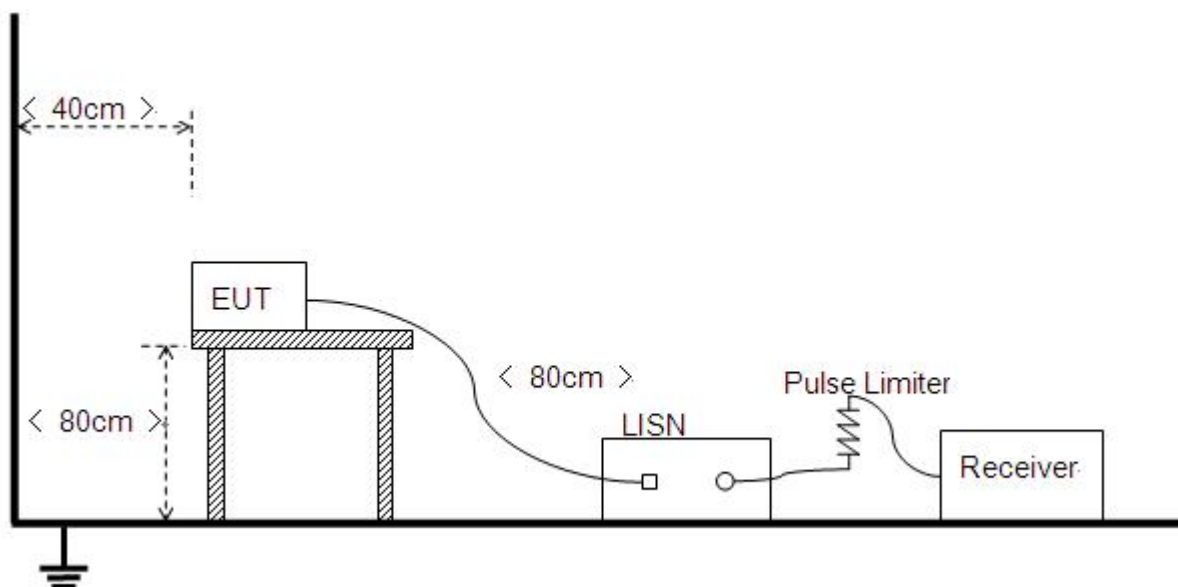
Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

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.

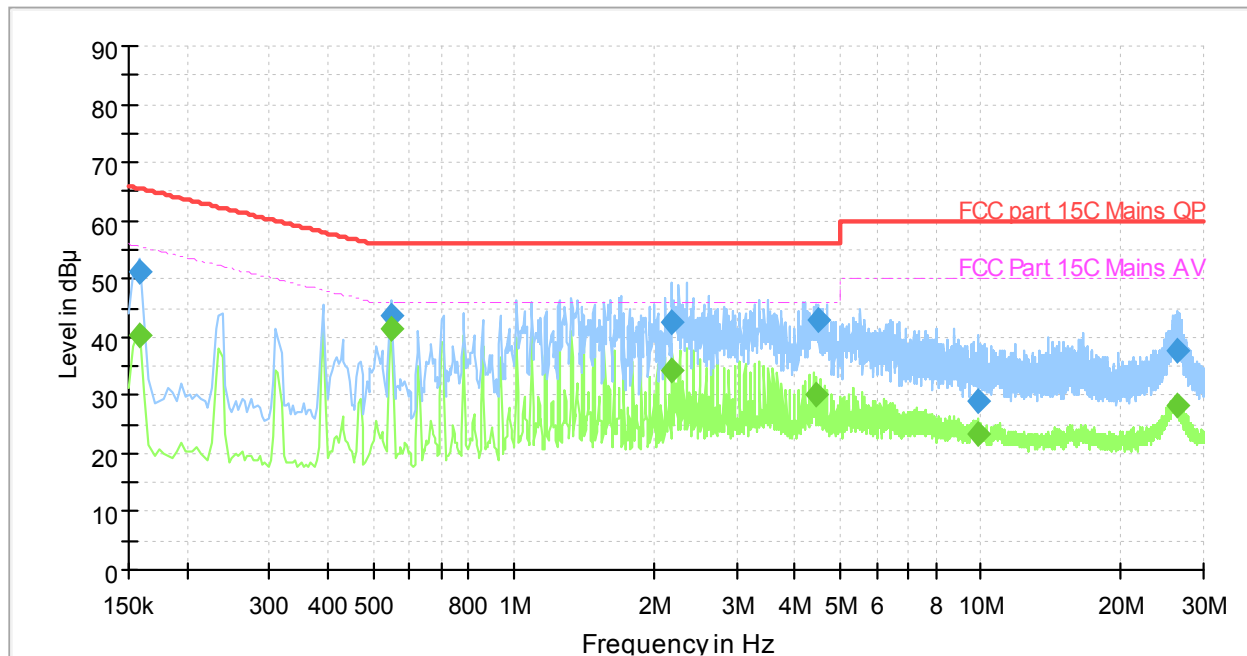
A. Test setup:

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

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

A. Test Plots:

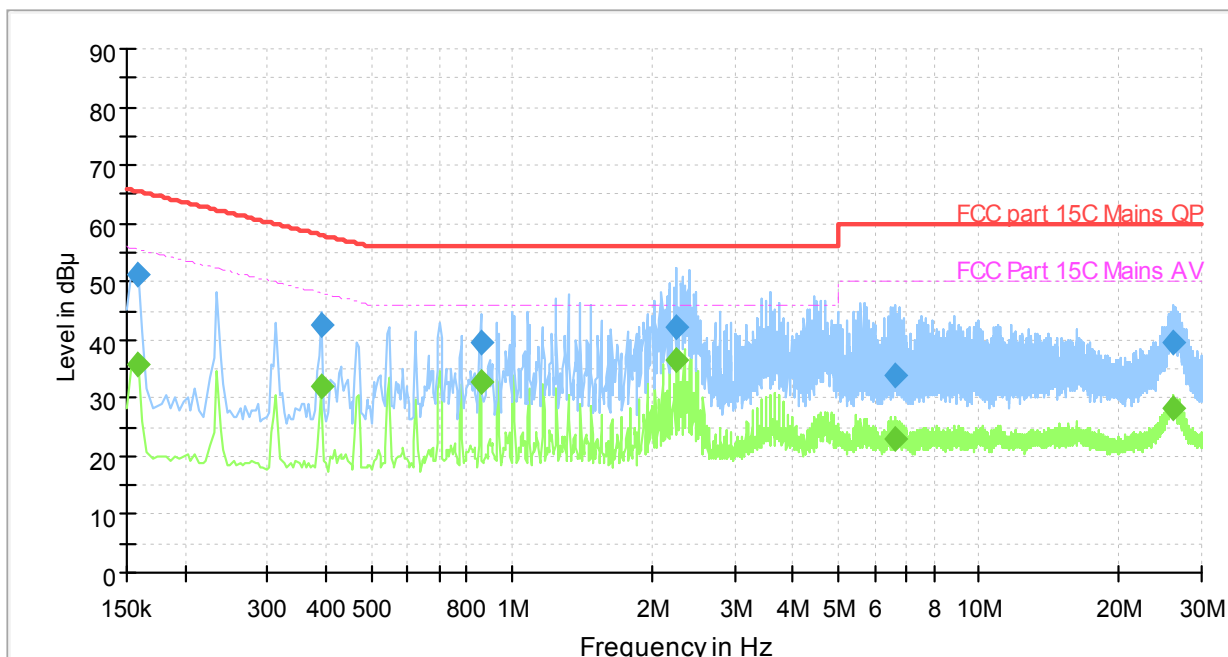
Full Spectrum



(Plot A: L Phase)

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.158000	51.31	---	65.57	14.26	L1	10.2
0.158000	---	40.28	55.57	15.28	L1	10.2
0.546000	43.81	---	56.00	12.19	L1	10.2
0.546000	---	41.45	46.00	4.55	L1	10.2
2.186000	42.49	---	56.00	13.51	L1	10.3
2.190000	---	34.30	46.00	11.70	L1	10.3
4.462000	---	30.30	46.00	15.70	L1	10.4
4.470000	42.81	---	56.00	13.19	L1	10.4
9.910000	28.94	---	60.00	31.06	L1	10.7
9.914000	---	23.27	50.00	26.73	L1	10.7
26.278000	37.48	---	60.00	22.52	L1	10.6
26.326000	---	28.09	50.00	21.91	L1	10.6

Full Spectrum



(Plot B: N Phase)

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.158000	---	35.71	55.57	19.86	N	10.2
0.158000	51.20	---	65.57	14.37	N	10.2
0.390000	---	32.04	48.06	16.03	N	10.2
0.390000	42.73	---	58.06	15.33	N	10.2
0.858000	---	32.80	46.00	13.20	N	10.3
0.858000	39.46	---	56.00	16.54	N	10.3
2.254000	42.15	---	56.00	13.85	N	10.3
2.262000	---	36.39	46.00	9.61	N	10.3
6.614000	33.78	---	60.00	26.22	N	10.5
6.614000	---	22.97	50.00	27.03	N	10.5
26.022000	---	28.26	50.00	21.74	N	10.5
26.190000	39.67	---	60.00	20.33	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

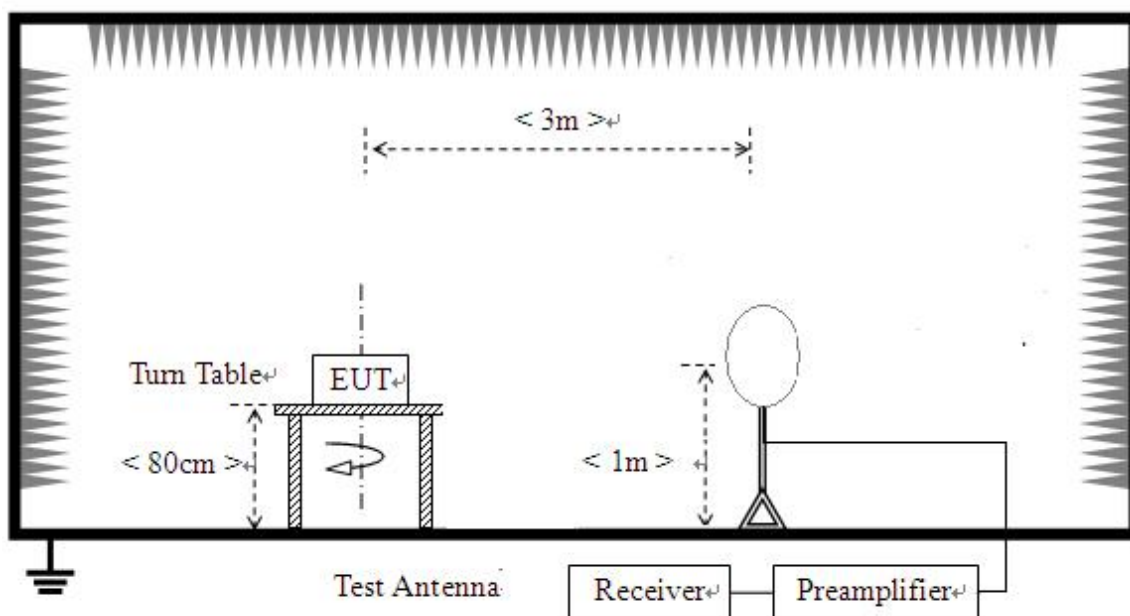
Note:

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.

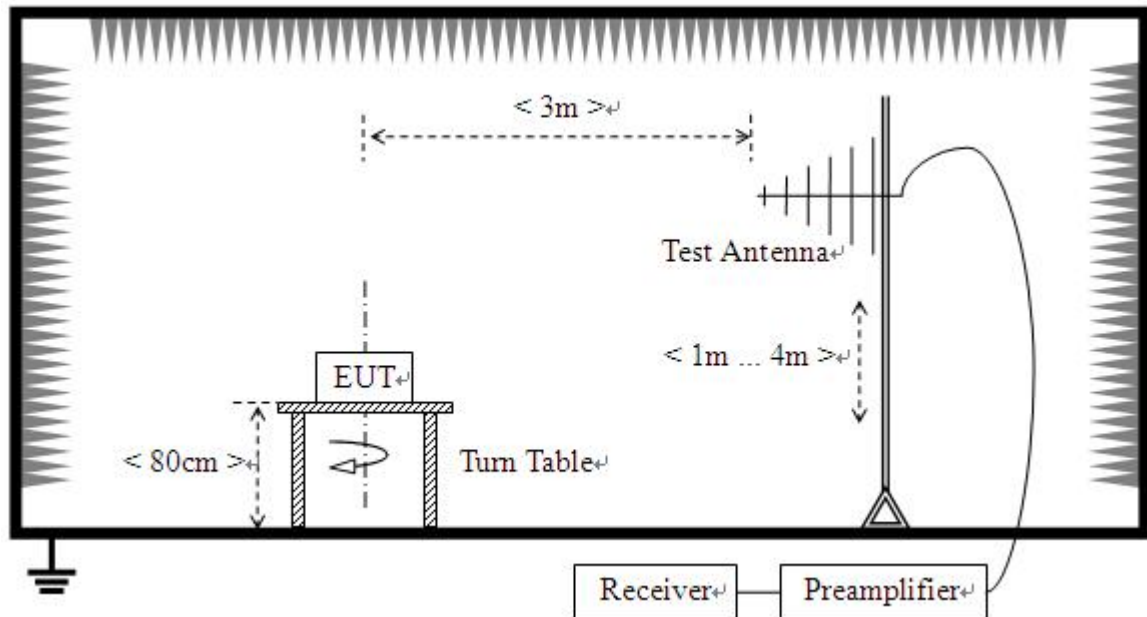
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

2.8.2. Test Description
A. Test Setup:

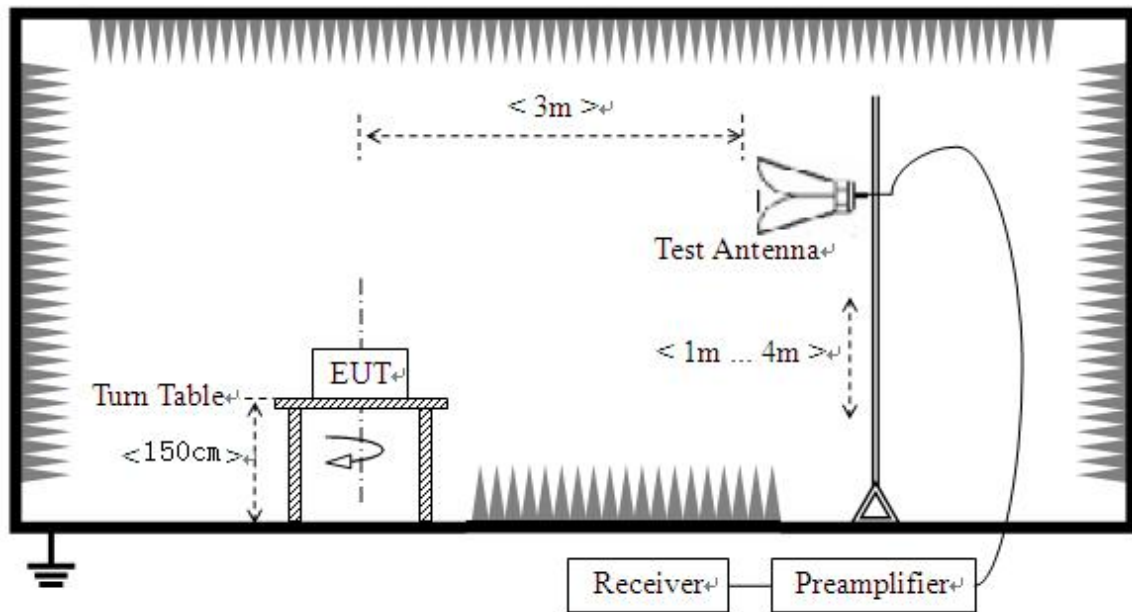
- 1) For radiated emissions from 9kHz to 30MHz



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:

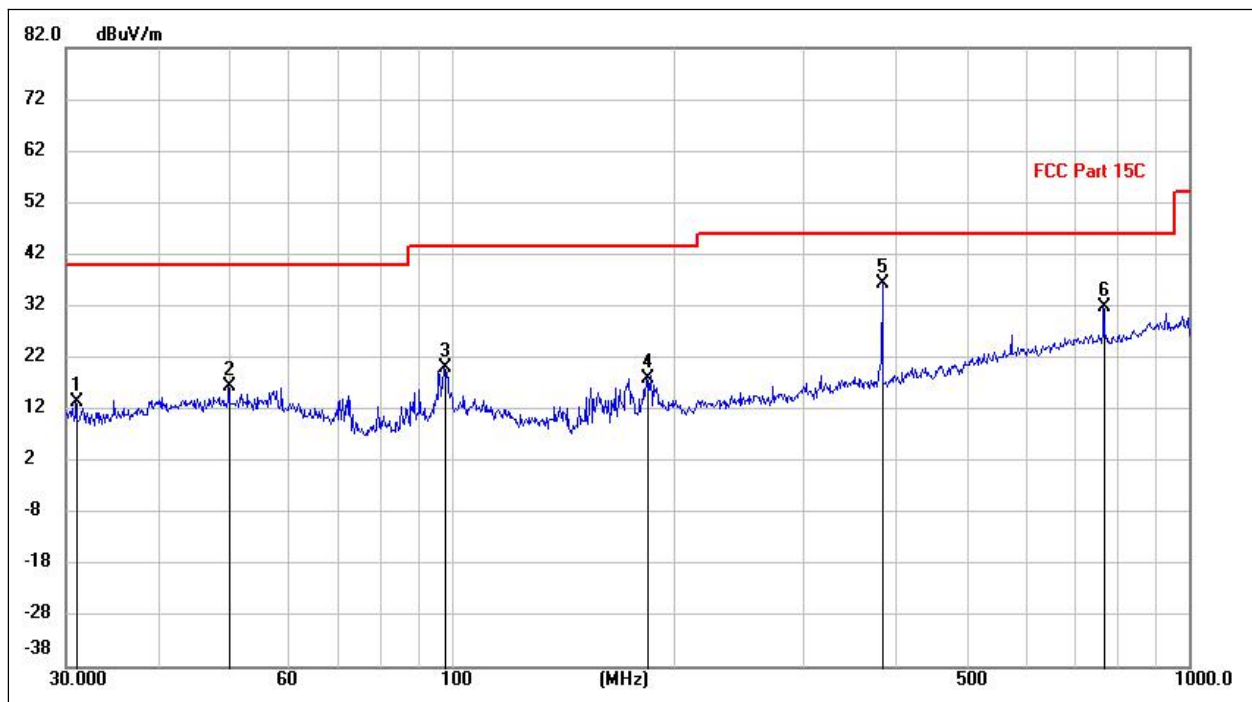
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasipeak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 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.

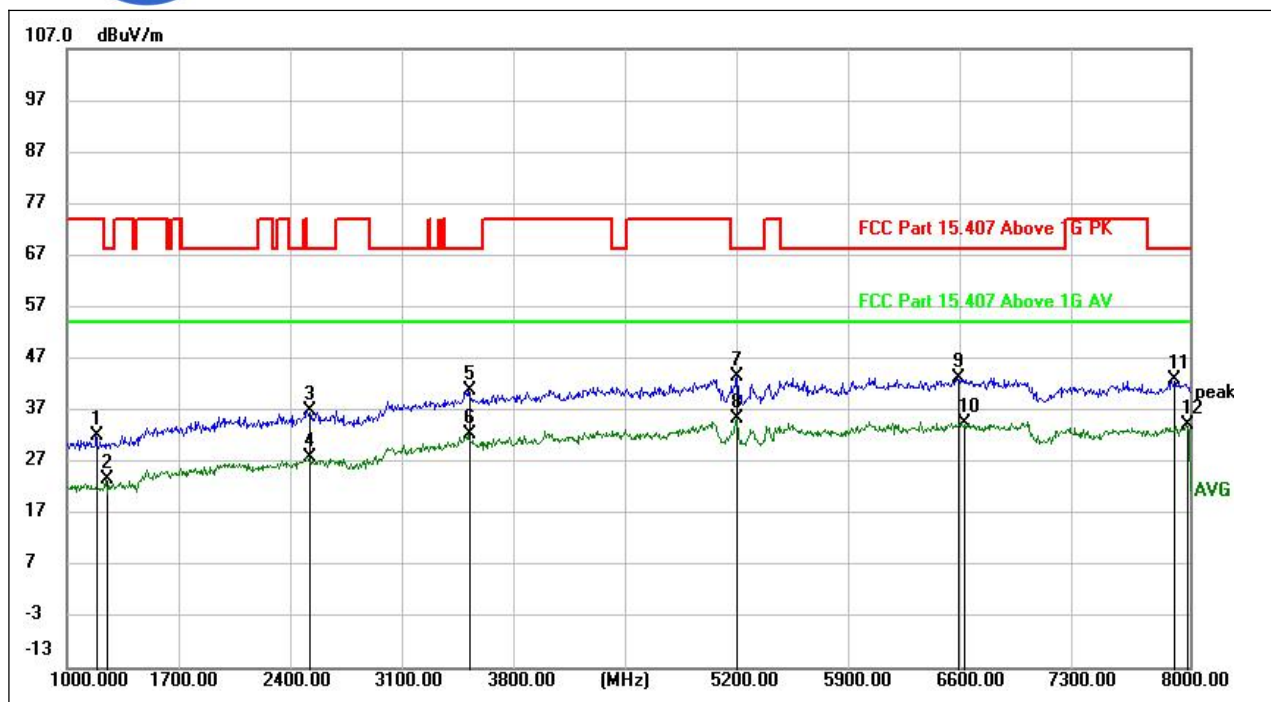
Note2: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

802.11a Test mode



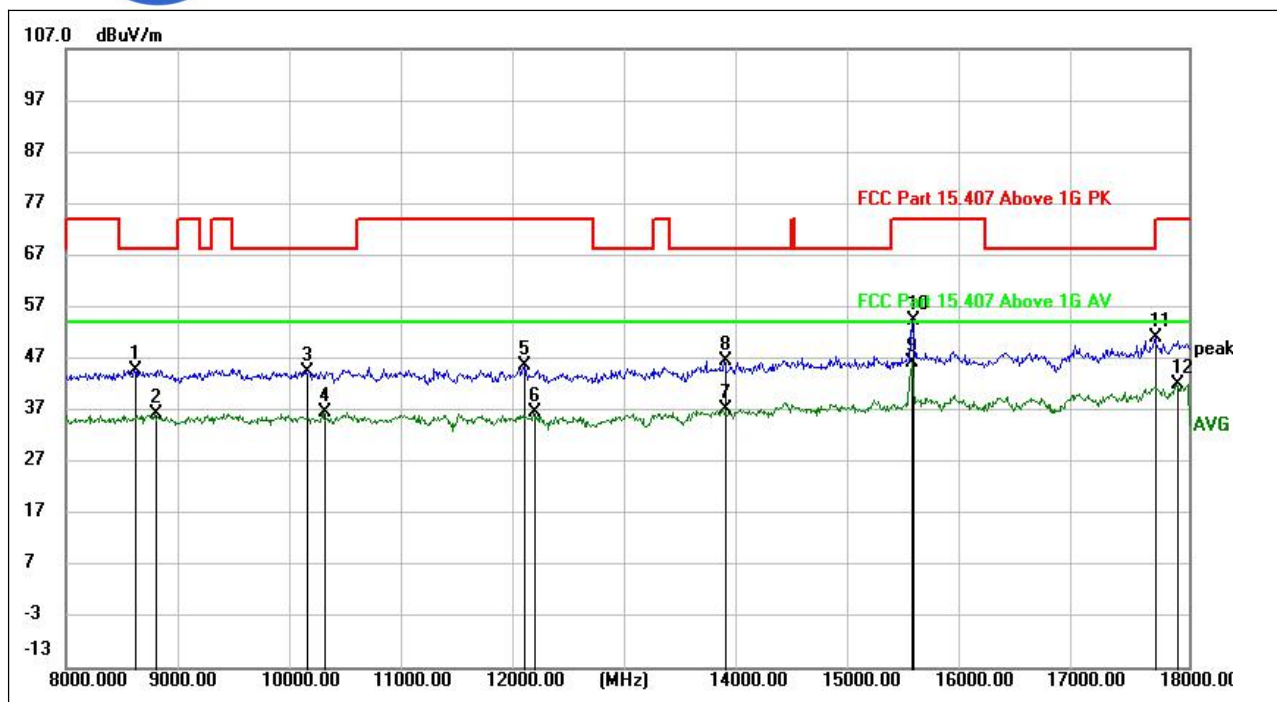
(802.11a _5180MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
31.0434	13.41	---	40.00	26.59	H	12.09
50.0040	16.35	---	40.00	23.65	H	16.20
97.8669	20.10	---	43.50	23.40	H	13.52
184.3928	18.00	---	43.50	25.50	H	12.22
383.9991	36.31	---	46.00	9.69	H	18.74
768.0745	31.82	---	46.00	14.18	H	26.18



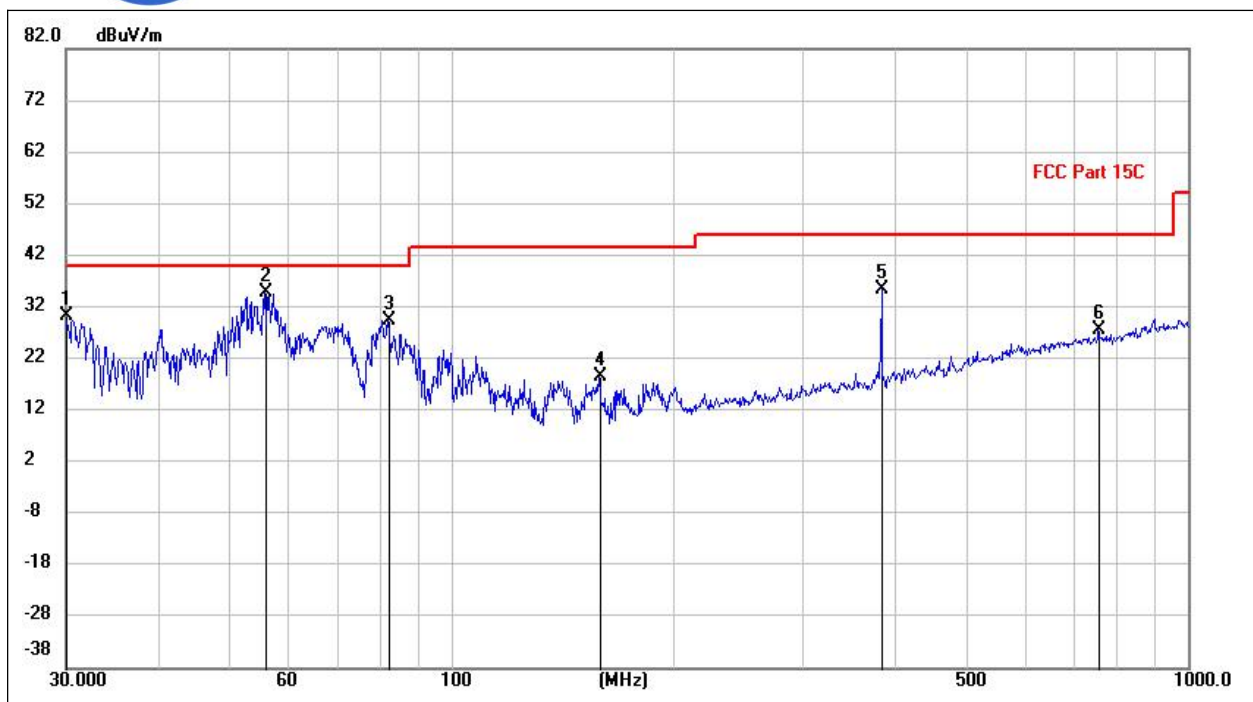
(802.11a _5180MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
1188.300	32.09	---	74.00	41.91	H	-17.85
1249.900	---	23.54	54.00	30.46	H	-17.80
2507.800	36.76	---	68.20	31.44	H	-10.71
2507.800	---	27.92	54.00	26.08	H	-10.71
3507.400	40.95	---	68.20	27.25	H	-7.94
3507.400	---	32.42	54.00	21.58	H	-7.94
5179.000	43.59	---	68.20	24.61	H	-3.00
5179.000	---	35.48	54.00	18.52	H	-3.00
6558.000	43.38	---	68.20	24.82	H	-1.63
6587.400	---	34.56	54.00	19.44	H	-0.95
7896.400	42.82	---	68.20	25.38	H	0.07
7981.450	---	34.06	54.00	19.94	H	0.32



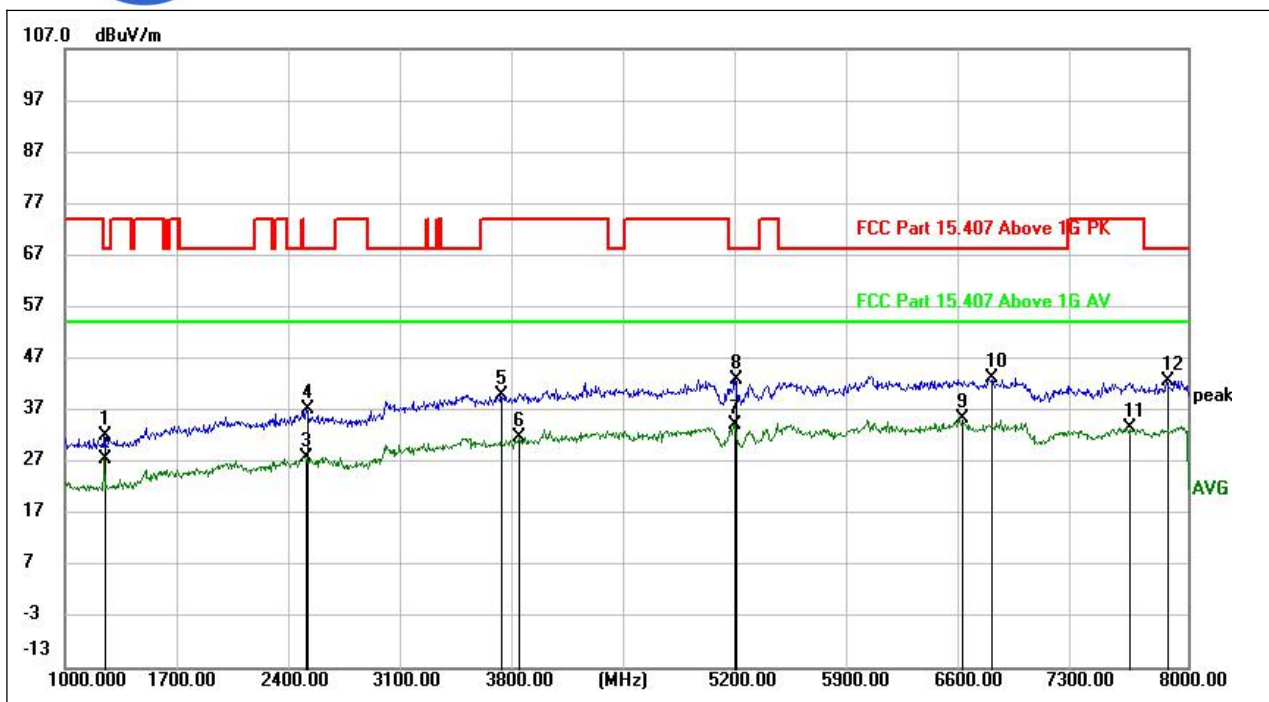
(802.11a _5180MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8615.000	44.77	---	68.20	23.43	H	1.48
8798.000	---	36.16	54.00	17.84	H	1.76
10143.000	44.53	---	68.20	23.67	H	2.48
10303.000	---	36.58	54.00	17.42	H	2.43
12088.500	45.55	---	74.00	28.45	H	4.20
12169.500	---	36.48	54.00	-.52	H	4.46
13866.000	---	37.11	54.00	16.89	H	7.66
13869.500	46.44	---	68.20	21.76	H	7.67
15539.500	---	46.33	54.00	7.67	H	11.22
15540.500	54.41	---	74.00	19.59	H	11.20
17703.000	50.97	---	74.00	23.03	H	14.40
17896.000	---	41.99	54.00	12.01	H	15.09



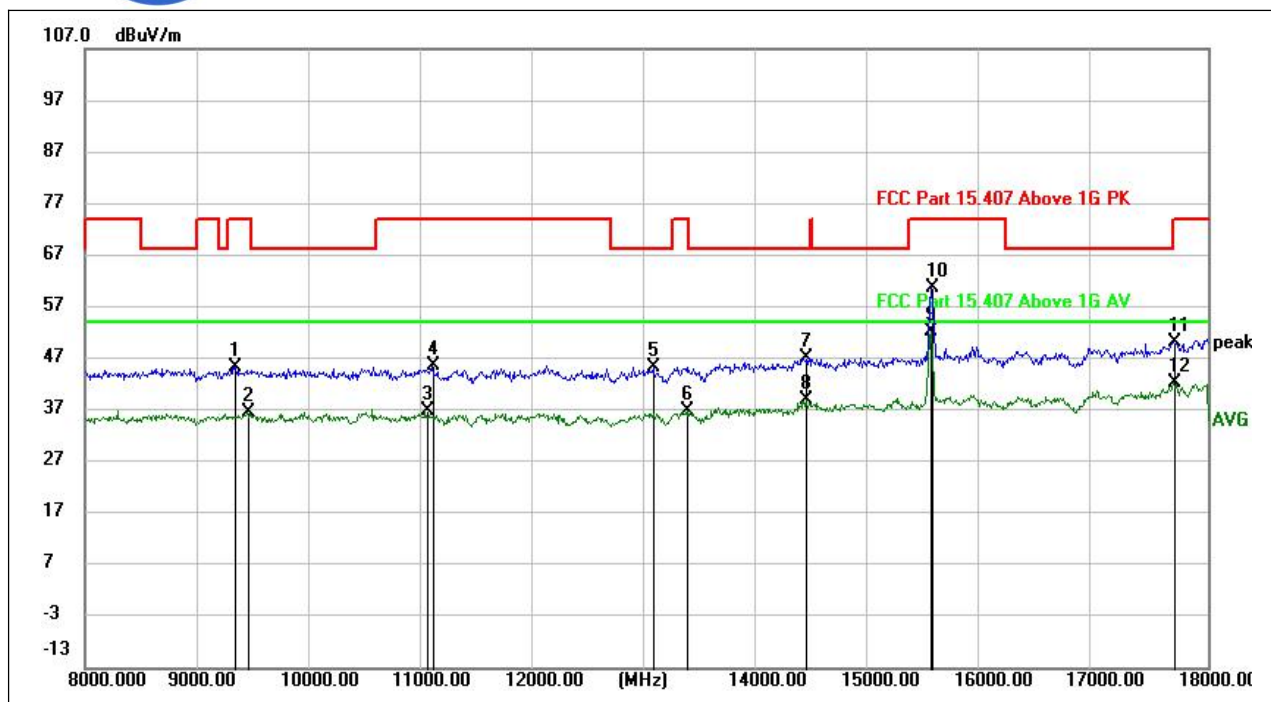
(802.11a _5180MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.0000	30.21	---	40.00	9.79	V	13.90
55.9615	34.91	---	40.00	5.09	V	14.87
82.2002	29.38	---	40.00	10.62	V	9.98
158.8069	18.65	---	43.50	24.85	V	11.82
384.0665	35.28	---	46.00	10.72	V	18.73
756.8456	27.52	---	46.00	18.48	V	26.12



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

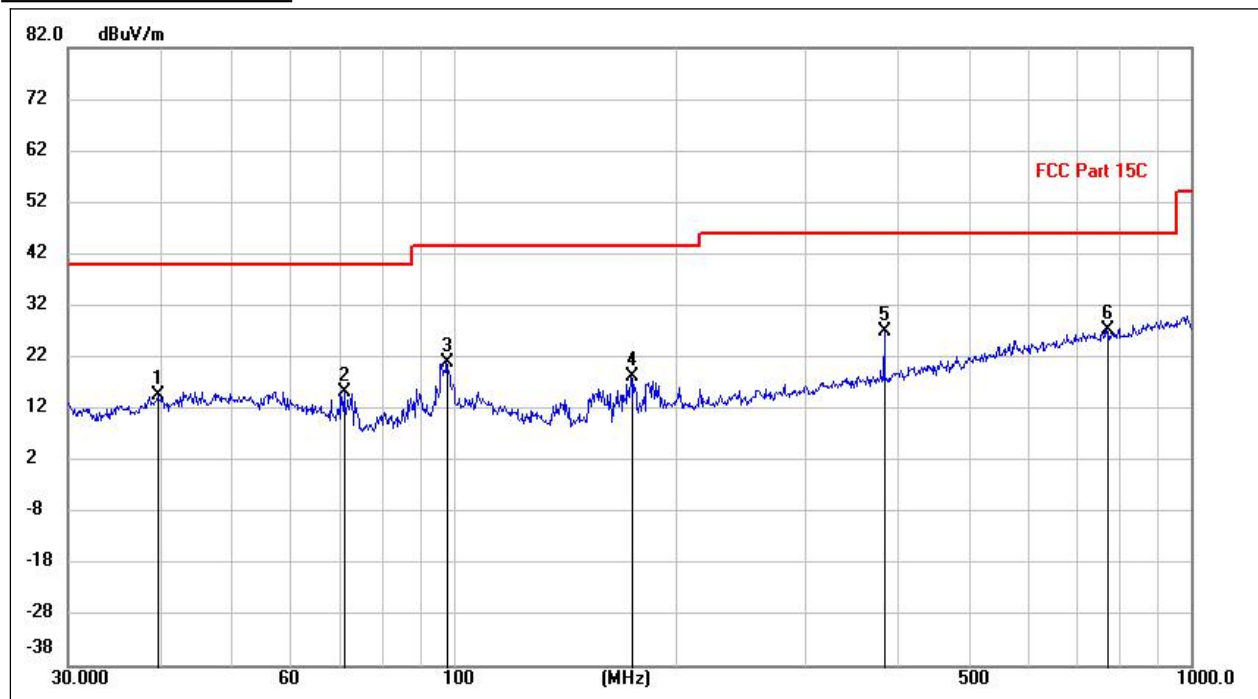
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
1249.900	31.95	---	68.20	36.25	V	-17.80
1249.900	---	27.52	54.00	26.48	V	-17.80
2501.500	---	27.99	54.00	26.01	V	-9.56
2510.250	37.08	---	68.20	31.12	V	-10.49
3720.200	39.90	---	74.00	34.10	V	-5.87
3833.250	---	31.64	54.00	22.36	V	-5.68
5175.500	---	34.30	54.00	19.70	V	-2.99
5179.700	42.97	---	68.20	25.23	V	-3.00
6586.700	---	35.35	54.00	18.65	V	-0.81
6768.700	43.09	---	68.20	25.11	V	-1.41
7631.100	---	33.57	54.00	20.43	V	0.11
7874.700	42.64	---	68.20	25.56	V	0.12



(802.11a_5180MHz, Antenna Vertical, 8GHz to 18GHz)

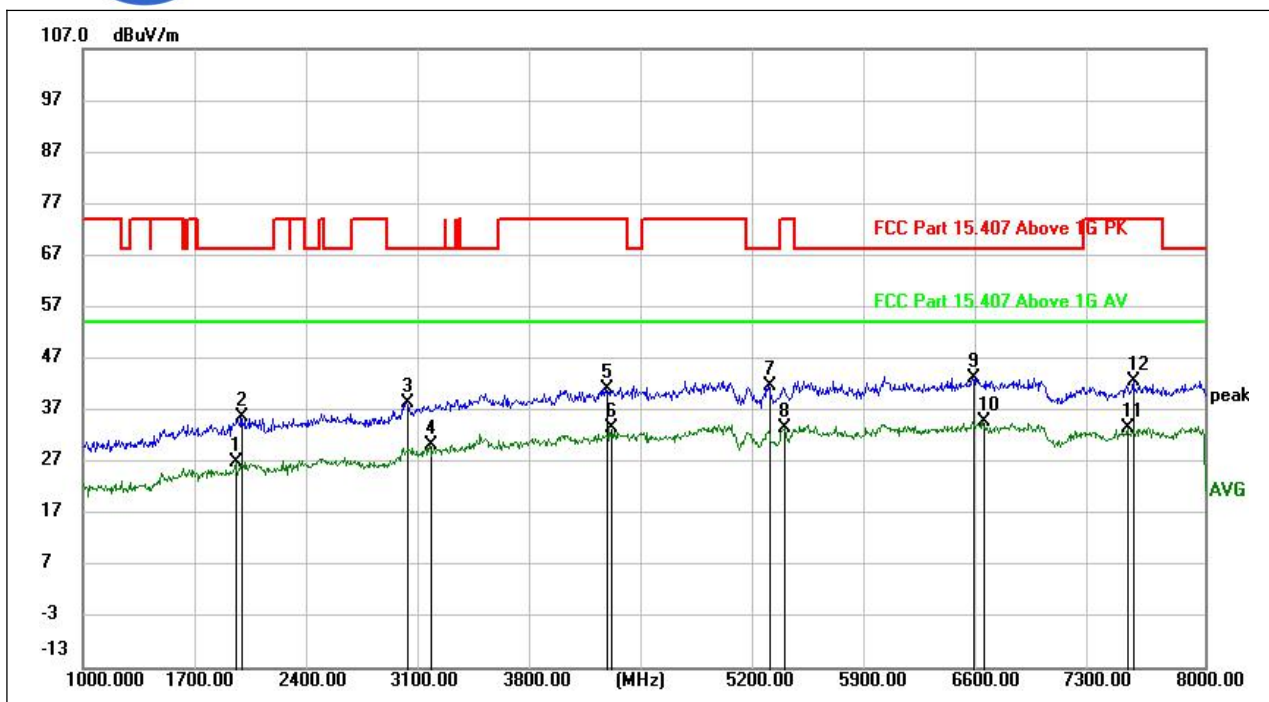
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
9340.000	45.36	---	74.00	28.64	V	2.08
9456.000	---	36.54	54.00	17.46	V	2.18
11048.000	---	36.92	54.00	17.08	V	3.42
11093.500	45.56	---	74.00	28.44	V	3.69
13068.500	45.40	---	68.20	22.80	V	6.15
13365.500	---	36.98	54.00	17.02	V	6.63
14412.500	47.25	---	68.20	20.95	V	8.96
14426.500	---	39.09	54.00	14.91	V	8.94
15537.500	---	52.40	54.00	1.60	V	10.68
15545.000	60.58	---	74.00	13.42	V	10.67
17698.500	50.21	---	68.20	17.99	V	14.36
17698.500	---	42.26	54.00	11.74	V	14.36

Plots for Channel = 44



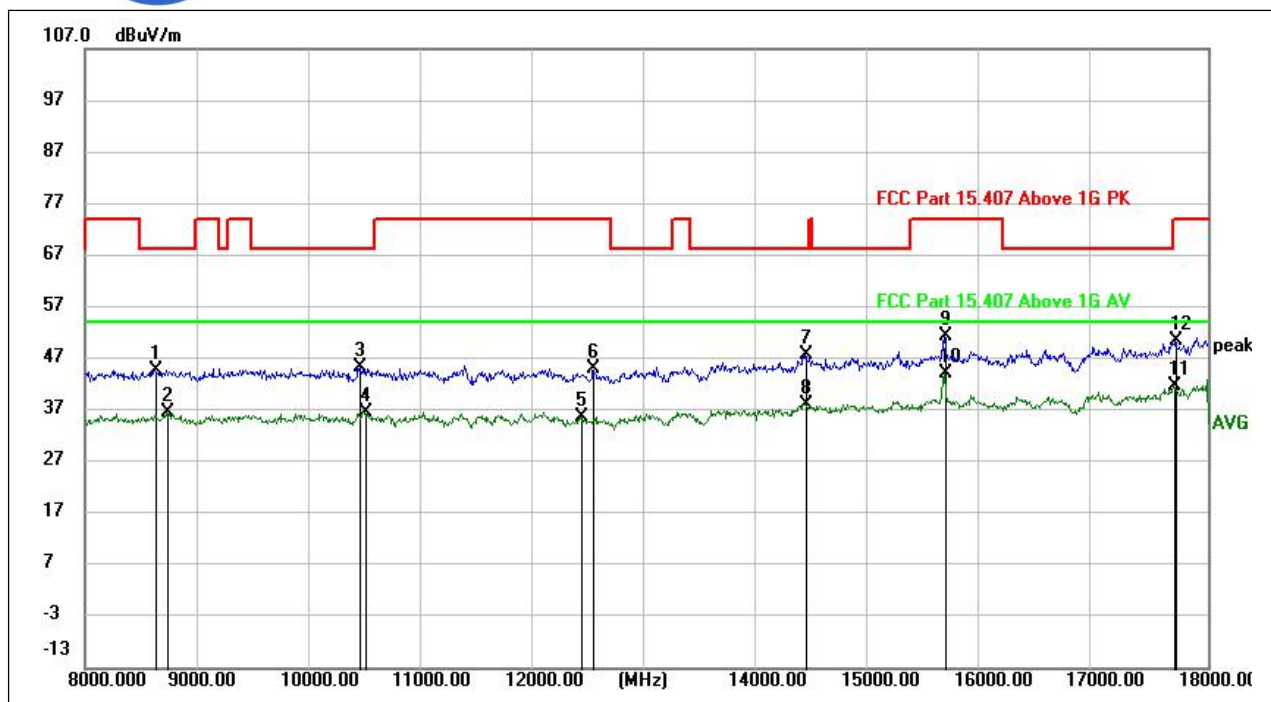
(802.11a _5220MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
39.8403	14.75	---	40.00	25.25	H	15.46
71.2800	15.08	---	40.00	24.92	H	11.12
97.9184	20.88	---	43.50	22.62	H	13.54
174.3935	18.29	---	43.50	25.21	H	11.54
383.9991	26.95	---	46.00	19.05	H	18.74
770.6374	27.19	---	46.00	18.81	H	26.14



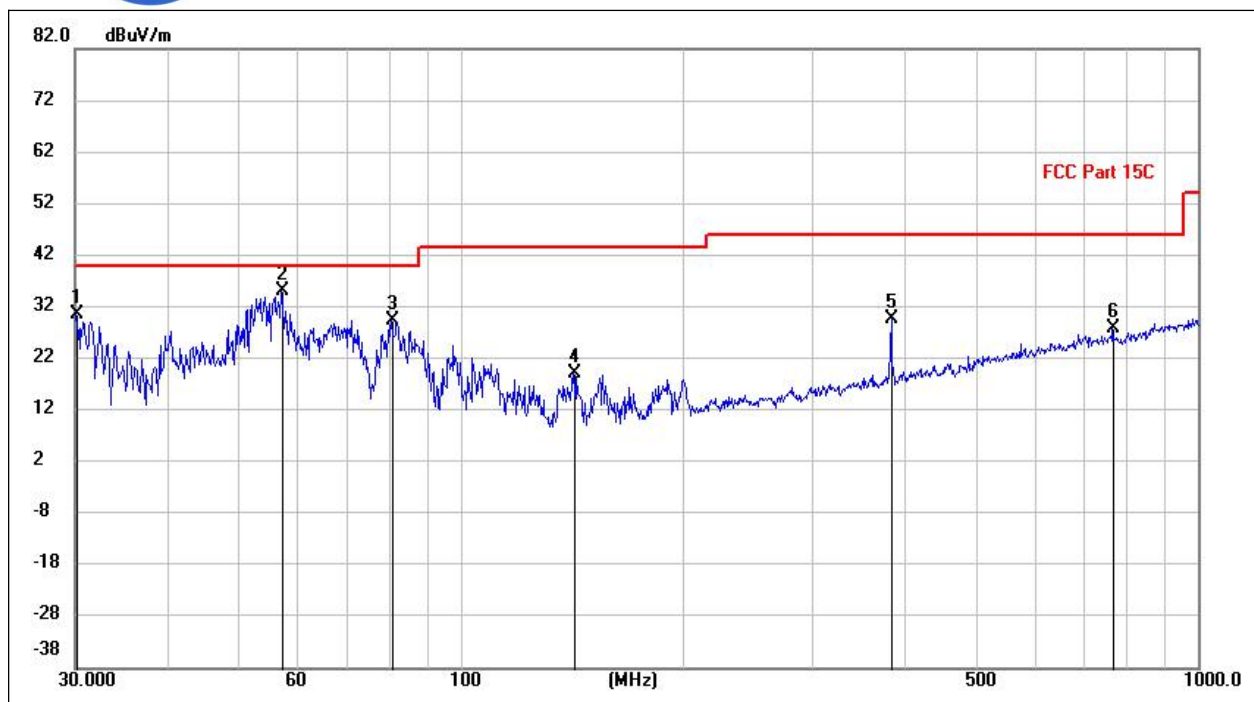
(802.11a _5220MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1956.900	---	27.02	54.00	26.98	H	-12.86
1993.300	35.61	---	68.20	32.59	H	-13.05
3017.750	38.37	---	68.20	29.83	H	-8.91
3170.350	---	30.20	54.00	23.80	H	-7.83
4262.350	41.15	---	74.00	32.85	H	-4.32
4291.400	---	33.62	54.00	20.38	H	-3.91
5280.150	41.82	---	68.20	26.38	H	-2.93
5379.550	---	33.70	54.00	20.30	H	-2.71
6557.300	43.36	---	68.20	24.84	H	-1.64
6617.850	---	34.82	54.00	19.18	H	-1.09
7520.500	---	33.59	54.00	20.41	H	-0.09
7556.900	42.50	---	74.00	31.50	H	-0.05



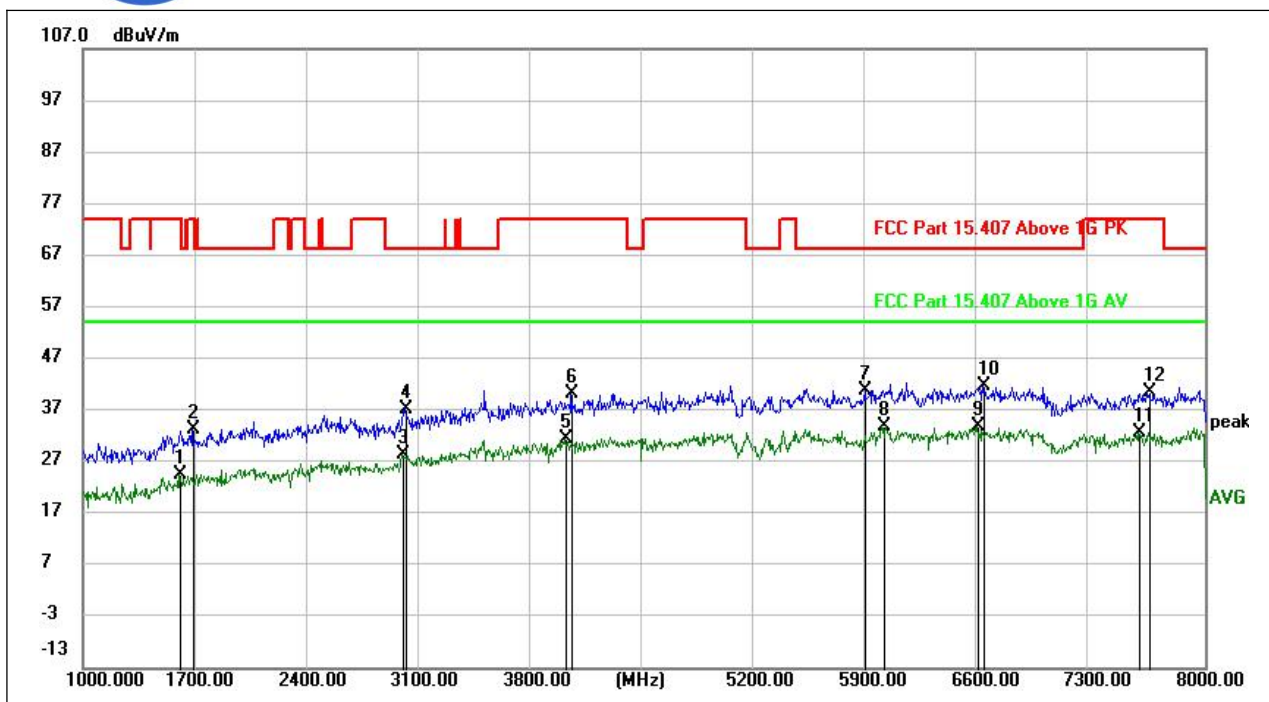
(802.11a_5220MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8634.000	44.60	---	68.20	23.60	H	1.52
8732.000	---	36.48	54.00	17.52	H	1.69
10442.000	45.42	---	68.20	22.78	H	2.83
10493.500	---	36.65	54.00	17.35	H	3.15
12419.500	---	35.73	54.00	18.27	H	4.51
12525.500	44.89	---	74.00	29.11	H	5.01
14417.000	47.84	---	68.20	20.36	H	8.75
14417.000	---	38.12	54.00	15.88	H	8.75
15663.000	51.37	---	74.00	22.63	H	11.18
15663.000	---	44.11	54.00	9.89	H	11.18
17698.000	---	41.84	54.00	12.16	H	14.35
17714.500	50.42	---	74.00	23.58	H	14.51



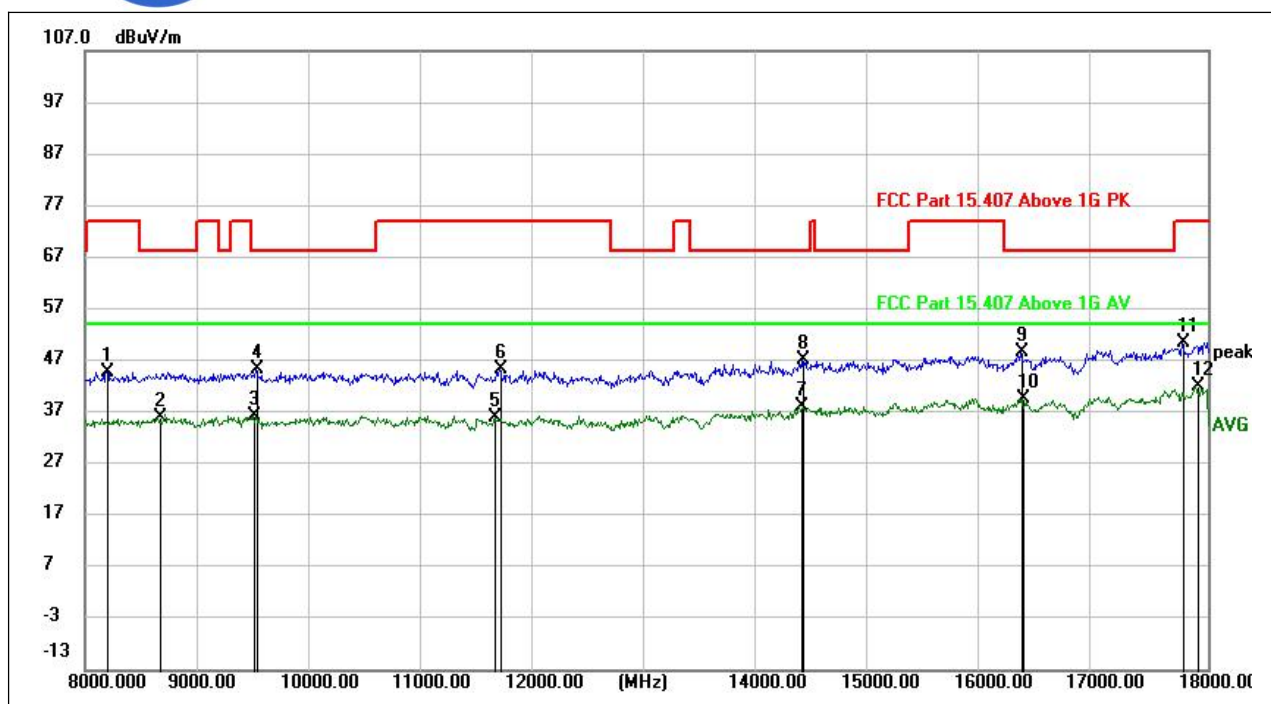
(802.11a _5220MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.1159	30.47	---	40.00	9.53	V	13.69
57.3621	35.22	---	40.00	4.78	V	14.46
80.7715	29.30	---	40.00	10.70	V	10.59
142.3993	19.19	---	43.50	24.31	V	11.27
383.9991	29.80	---	46.00	16.20	V	18.74
768.0745	27.87	---	46.00	18.13	V	26.18



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

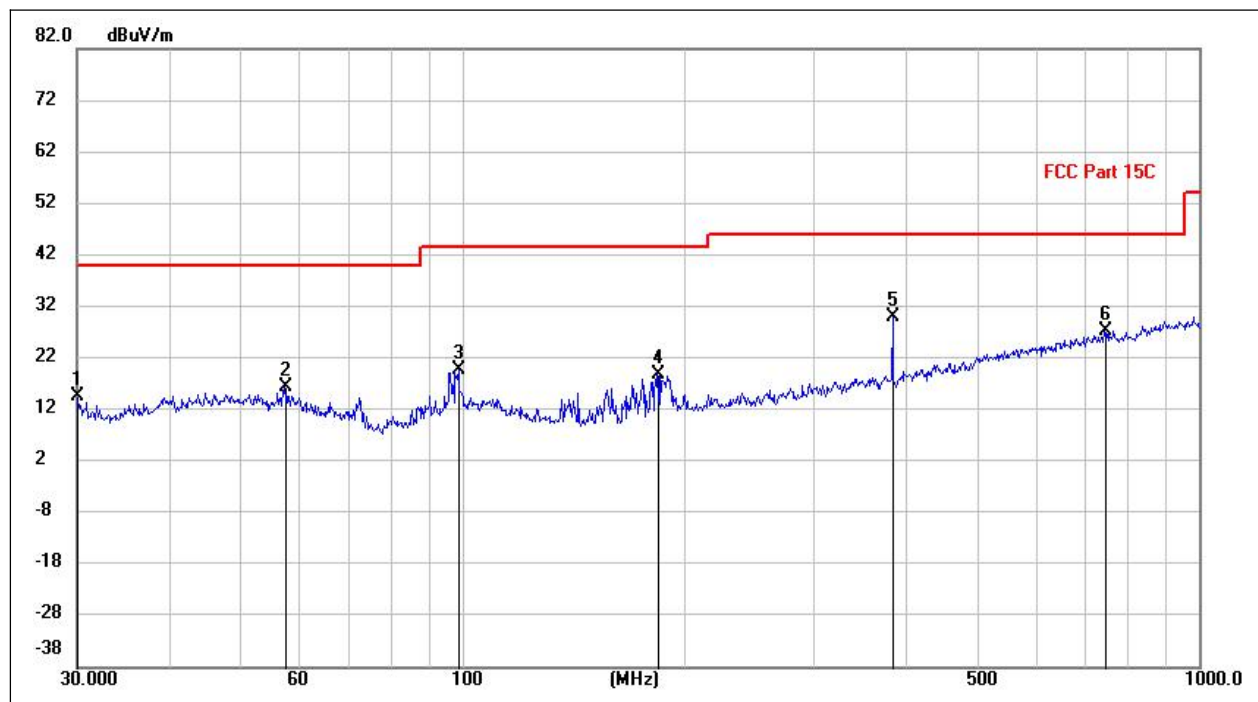
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1604.800	---	24.51	54.00	29.49	V	-14.61
1686.350	33.17	---	74.00	40.83	V	-14.59
2998.150	---	28.42	54.00	25.58	V	-7.28
3012.500	37.11	---	68.20	31.09	V	-7.27
4012.450	---	31.50	54.00	22.50	V	-4.08
4048.850	40.20	---	74.00	33.80	V	-4.96
5882.150	40.95	---	68.20	27.25	V	-2.69
5992.400	---	33.76	54.00	20.24	V	-1.53
6585.300	---	33.74	54.00	20.26	V	-0.83
6620.300	41.58	---	68.20	26.62	V	-1.11
7591.200	---	32.69	54.00	21.31	V	-0.16
7651.400	40.45	---	74.00	33.55	V	0.29



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

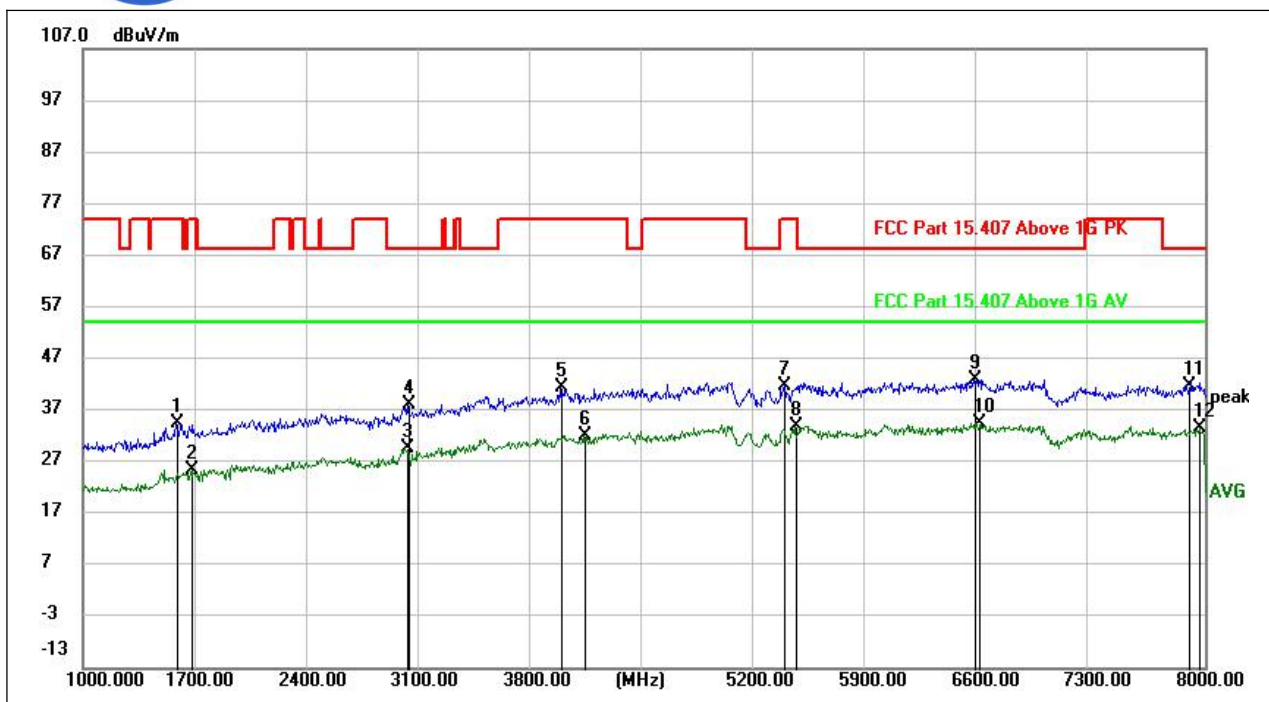
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8195.500	44.80	---	74.00	29.20	V	1.61
8665.000	---	35.87	54.00	18.13	V	1.58
9505.500	---	36.22	54.00	17.78	V	2.32
9526.500	45.35	---	68.20	22.85	V	2.37
11659.000	---	36.01	54.00	17.99	V	3.64
11700.500	45.32	---	74.00	28.68	V	3.95
14374.000	---	38.10	54.00	15.90	V	9.11
14398.000	47.23	---	68.20	20.97	V	9.00
16334.500	48.66	---	68.20	19.54	V	11.35
16352.500	---	39.69	54.00	14.31	V	11.40
17771.500	50.48	---	74.00	23.52	V	14.65
17901.000	---	42.00	54.00	12.00	V	15.44

Plot for Channel = 48



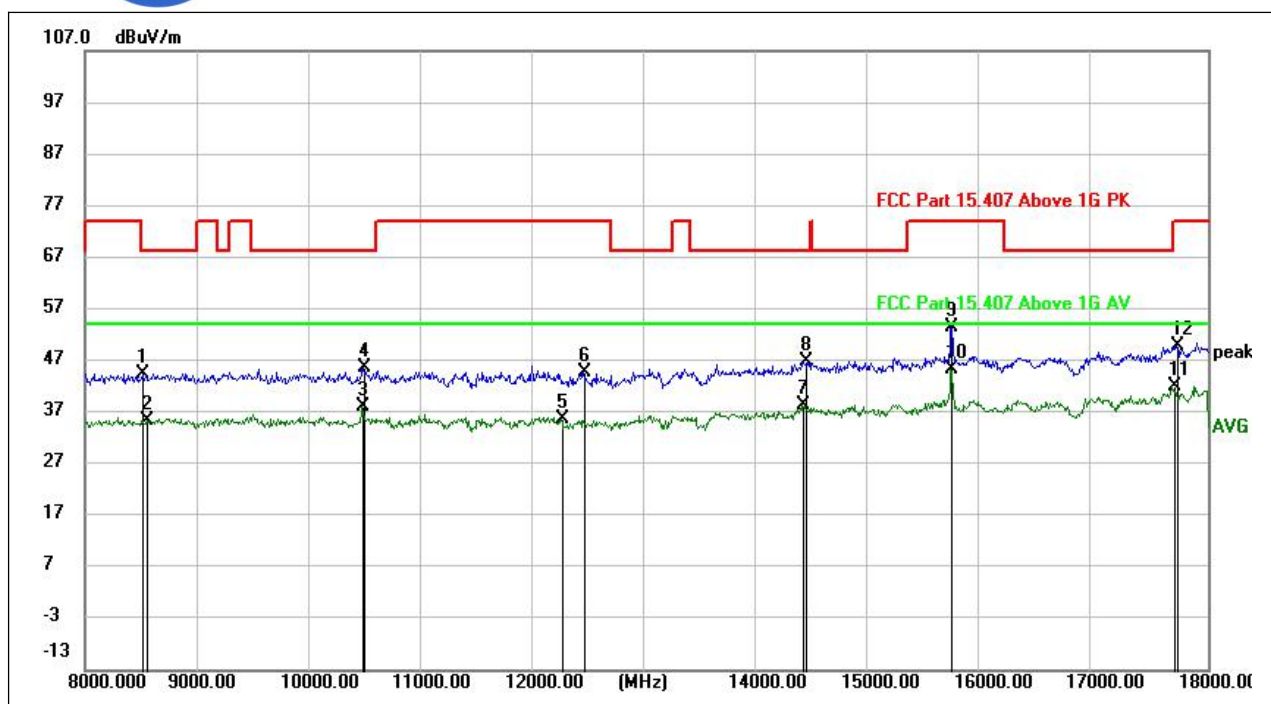
(802.11a _5240MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.0000	14.68	---	40.00	25.32	H	13.90
57.4628	16.40	---	40.00	23.60	H	14.43
98.8846	19.82	---	43.50	23.68	H	14.28
184.4252	18.98	---	43.50	24.52	H	12.22
383.9991	29.90	---	46.00	16.10	H	18.74
745.1273	27.32	---	46.00	18.68	H	25.89



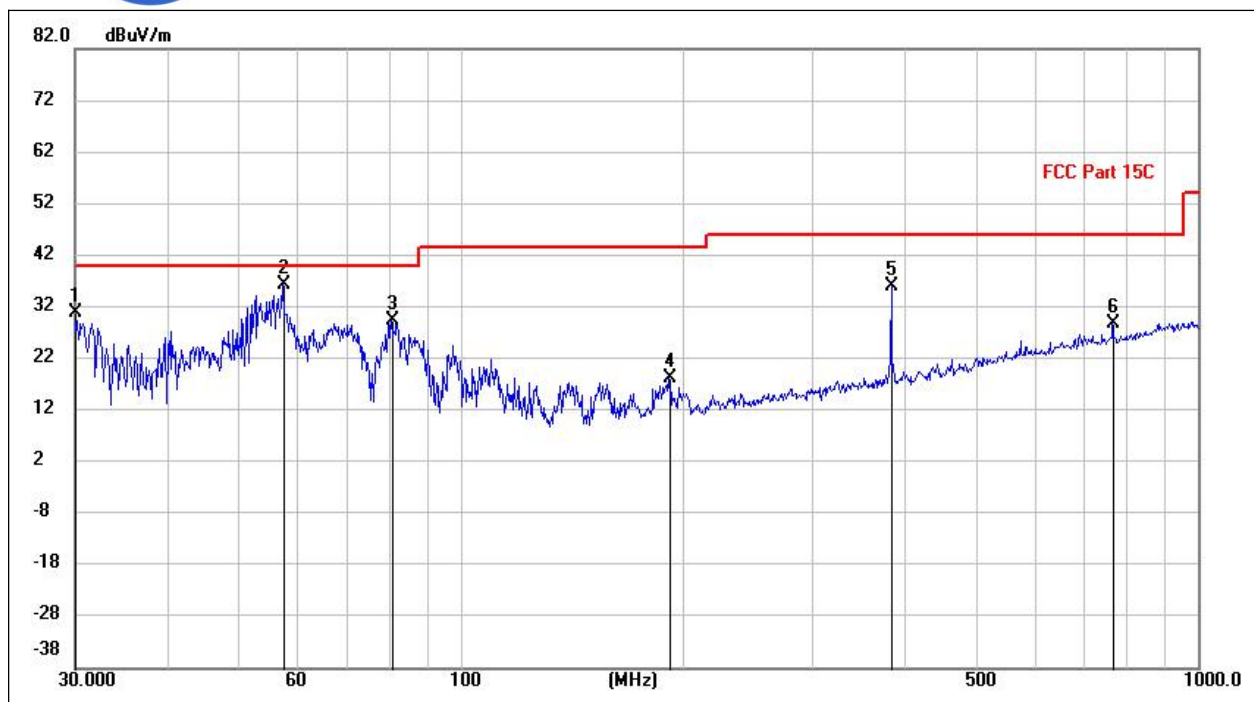
(802.11a _5240MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1588.000	34.59	---	74.00	39.41	H	-14.63
1679.700	---	25.46	54.00	28.54	H	-14.44
3018.450	---	29.62	54.00	24.38	H	-8.89
3031.050	38.18	---	68.20	30.02	H	-8.53
3983.400	41.50	---	74.00	32.50	H	-6.55
4133.900	---	32.22	54.00	21.78	H	-5.01
5379.900	41.78	---	74.00	32.22	H	-2.71
5448.850	---	33.76	54.00	20.24	H	-2.58
6565.000	43.00	---	68.20	25.20	H	-1.47
6589.150	---	34.53	54.00	19.47	H	-0.91
7895.350	41.58	---	68.20	26.62	H	0.06
7971.300	---	33.52	54.00	20.48	H	0.50



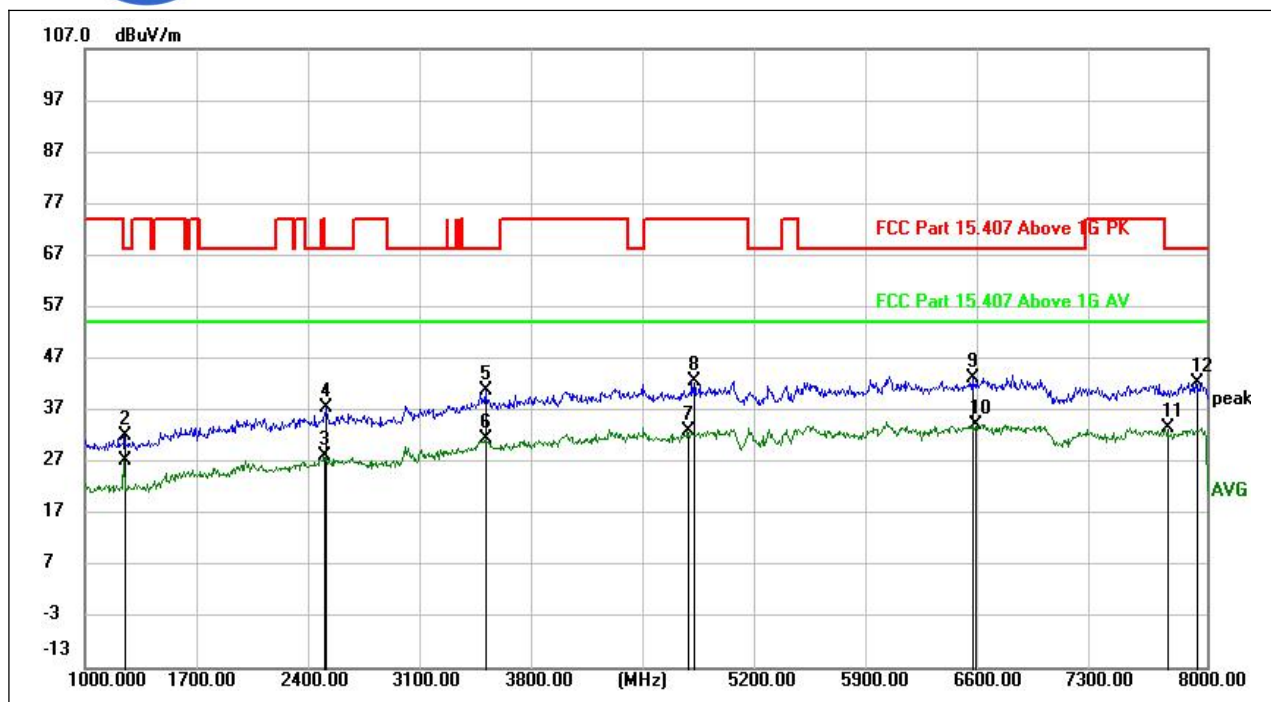
(802.11a_5240MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8520.000	44.47	---	68.20	23.73	H	1.28
8557.500	---	35.40	54.00	18.60	H	1.55
10480.000	---	38.04	54.00	15.96	H	3.07
10485.500	45.77	---	68.20	22.43	H	3.10
12250.000	---	35.80	54.00	18.20	H	4.04
12444.000	44.61	---	74.00	29.39	H	4.77
14399.000	---	38.33	54.00	15.67	H	8.99
14411.500	46.71	---	68.20	21.49	H	8.82
15718.500	53.42	---	74.00	20.58	H	10.72
15718.500	---	45.44	54.00	8.56	H	10.72
17692.500	---	42.06	54.00	11.94	H	14.31
17727.000	49.95	---	74.00	24.05	H	14.63



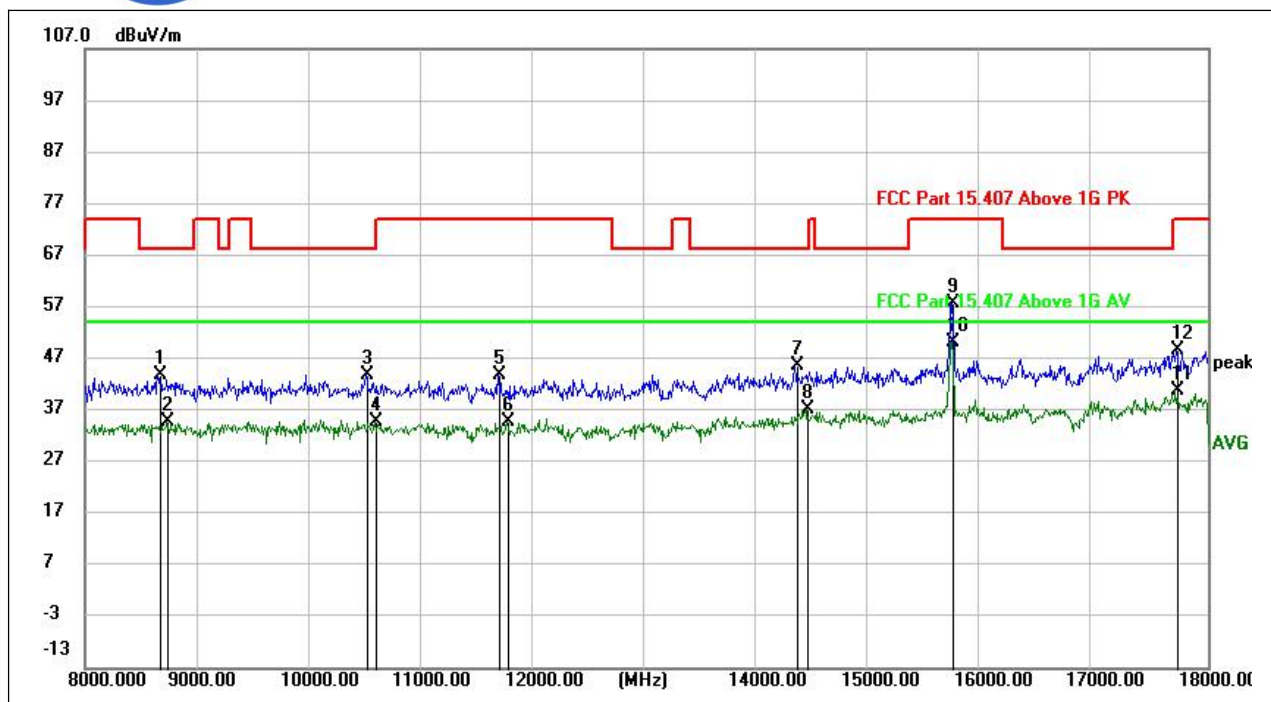
(802.11a _5240MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.0000	30.81	---	40.00	9.19	V	13.90
57.4527	36.36	---	40.00	3.64	V	14.43
80.7999	29.26	---	40.00	10.74	V	10.57
192.2500	18.12	---	43.50	25.38	V	13.40
383.9991	35.91	---	46.00	10.09	V	18.74
768.0745	28.76	---	46.00	17.24	V	26.18



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

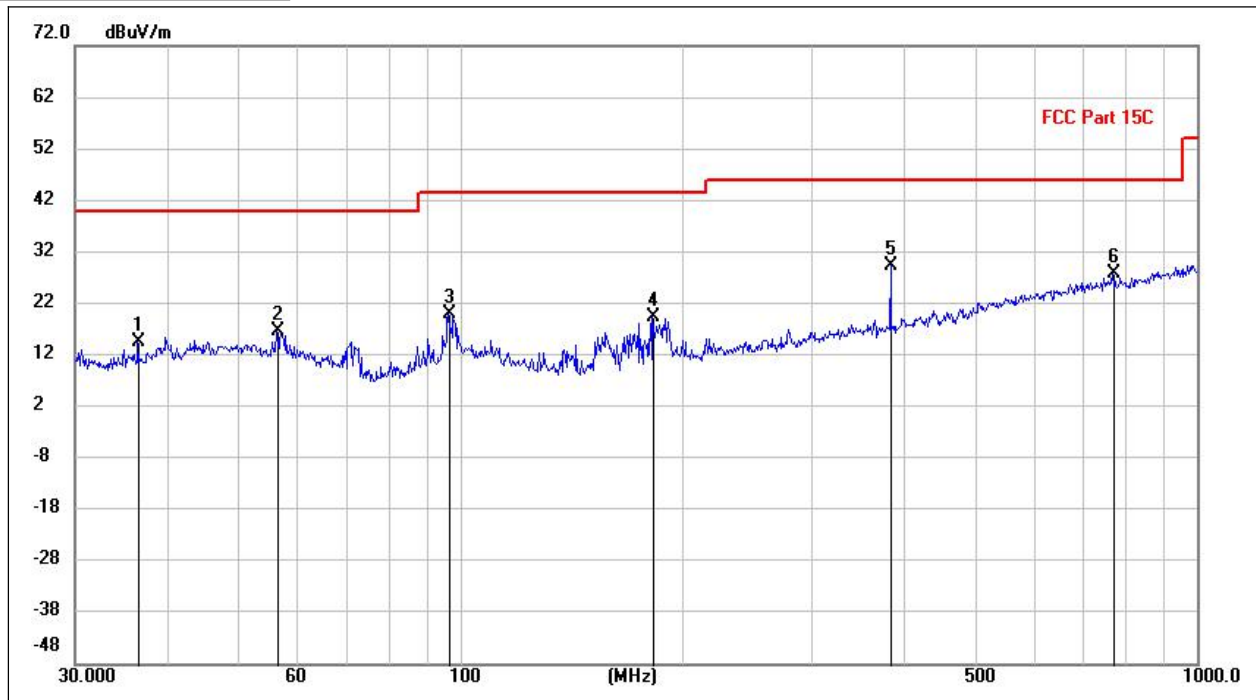
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
1249.900	---	27.35	54.00	26.65	V	-17.80
1250.250	32.08	---	68.20	36.12	V	-17.80
2496.250	---	28.03	54.00	25.97	V	-9.84
2505.000	37.65	---	68.20	30.55	V	-9.95
3505.300	40.84	---	68.20	27.36	V	-5.39
3505.300	---	31.36	54.00	22.64	V	-5.39
4763.550	---	33.10	54.00	20.90	V	-3.56
4795.050	42.73	---	74.00	31.27	V	-3.52
6543.650	43.19	---	68.20	25.01	V	-1.28
6552.050	---	34.25	54.00	19.75	V	-1.19
7750.100	---	33.46	54.00	20.54	V	-0.20
7934.550	42.30	---	68.20	25.90	V	0.67



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

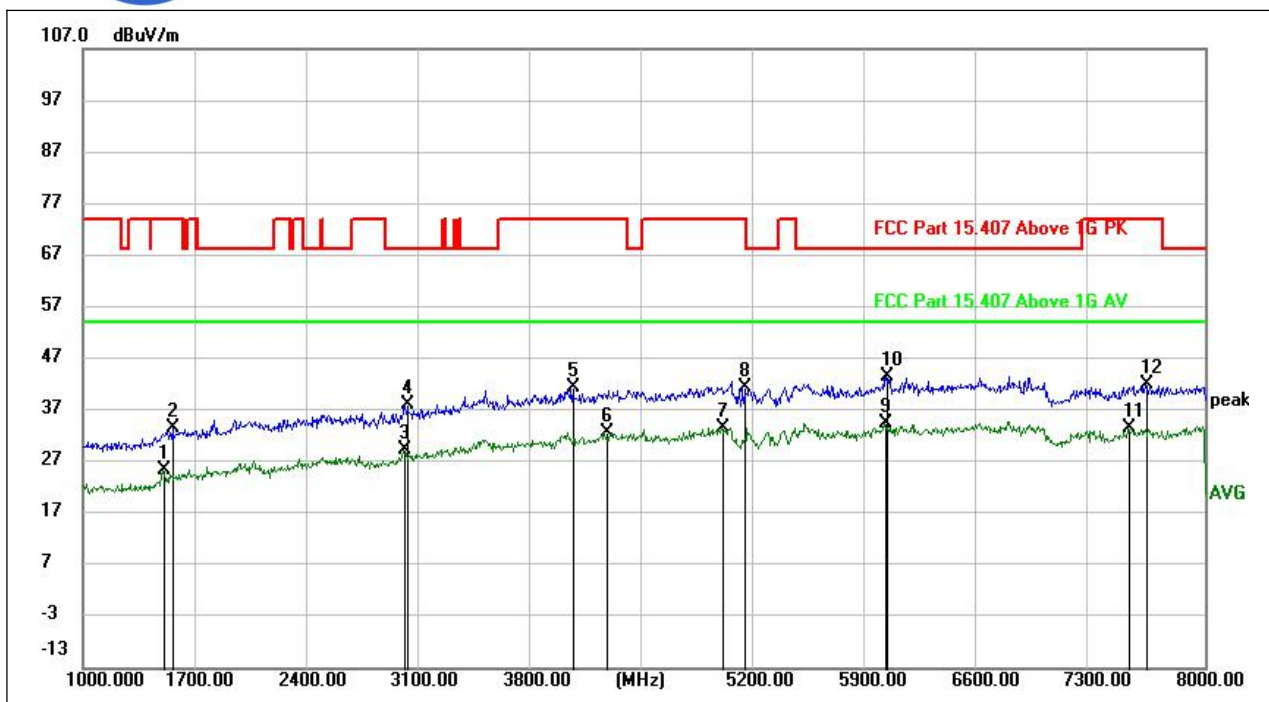
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8662.000	43.92	---	68.20	24.28	V	1.57
8736.500	---	34.73	54.00	19.27	V	1.69
10510.500	43.75	---	68.20	24.45	V	3.86
10599.000	---	34.87	54.00	19.13	V	2.64
11684.500	43.73	---	74.00	30.27	V	3.84
11769.000	---	34.66	54.00	19.34	V	4.02
14335.000	45.59	---	68.20	22.61	V	8.86
14431.000	---	37.16	54.00	16.84	V	8.94
15721.000	57.83	---	74.00	16.17	V	10.68
15721.000	---	50.15	54.00	3.85	V	10.68
17721.500	---	40.96	54.00	13.04	V	14.58
17728.000	48.69	---	74.00	25.31	V	14.64

Plots for Channel = 52



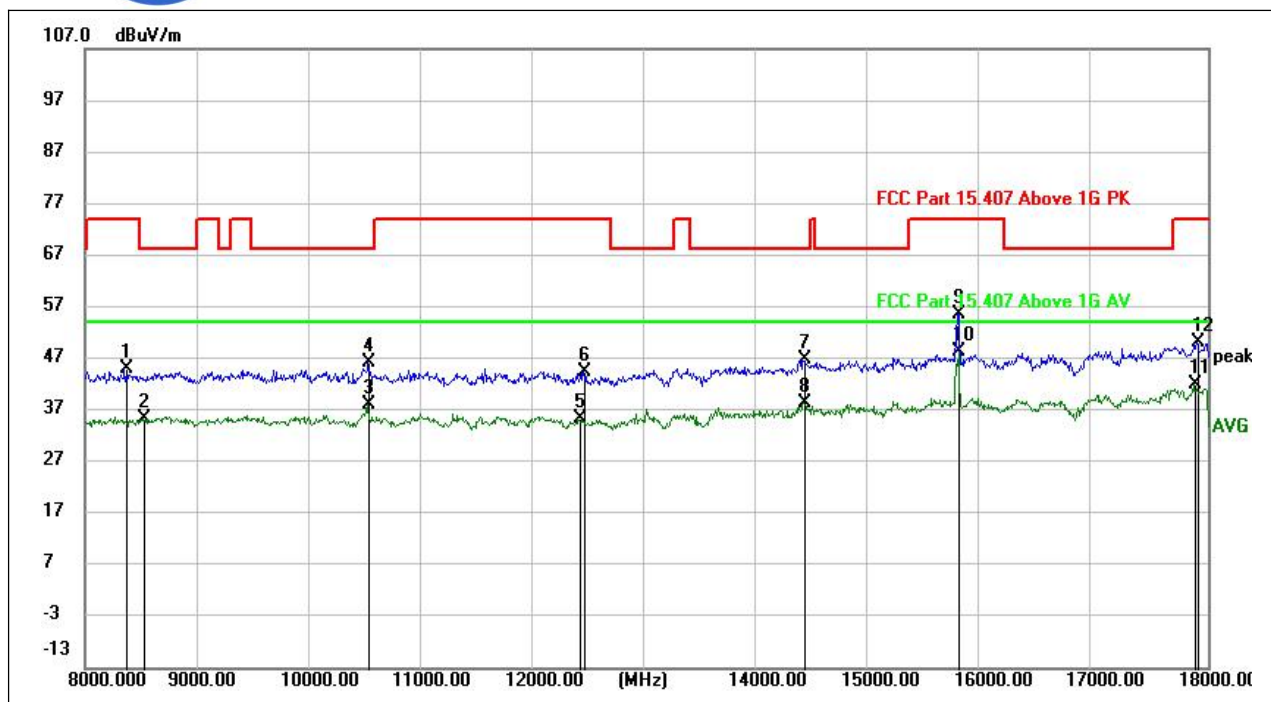
(802.11a _5260MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
36.6054	14.48	---	40.00	25.52	H	13.38
56.4443	16.67	---	40.00	23.33	H	14.73
96.4700	19.95	---	43.50	23.55	H	13.30
183.0721	19.36	---	43.50	24.14	H	12.43
383.9991	29.20	---	46.00	16.80	H	18.74
769.5573	27.91	---	46.00	18.09	H	26.16



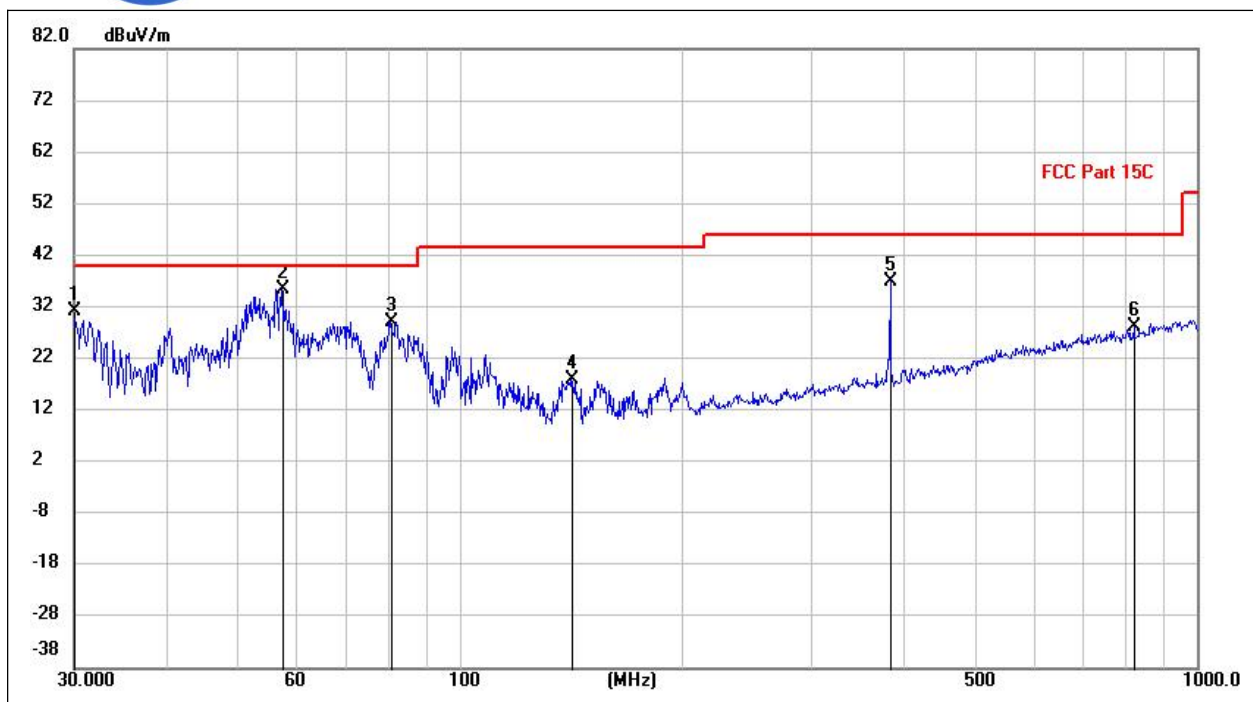
(802.11a _5260MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1503.650	---	25.46	54.00	28.54	H	-15.52
1564.900	33.71	---	74.00	40.29	H	-15.00
3003.050	---	29.36	54.00	24.64	H	-9.15
3019.500	37.98	---	68.20	30.22	H	-8.86
4054.100	41.51	---	74.00	32.49	H	-5.03
4264.800	---	32.82	54.00	21.18	H	-4.32
4991.750	---	33.65	54.00	20.35	H	-3.46
5124.400	41.30	---	74.00	32.70	H	-2.88
6007.450	---	34.42	54.00	19.58	H	-2.73
6018.300	43.68	---	68.20	24.52	H	-2.79
7529.950	---	33.51	54.00	20.49	H	-0.04
7630.750	42.17	---	74.00	31.83	H	0.11



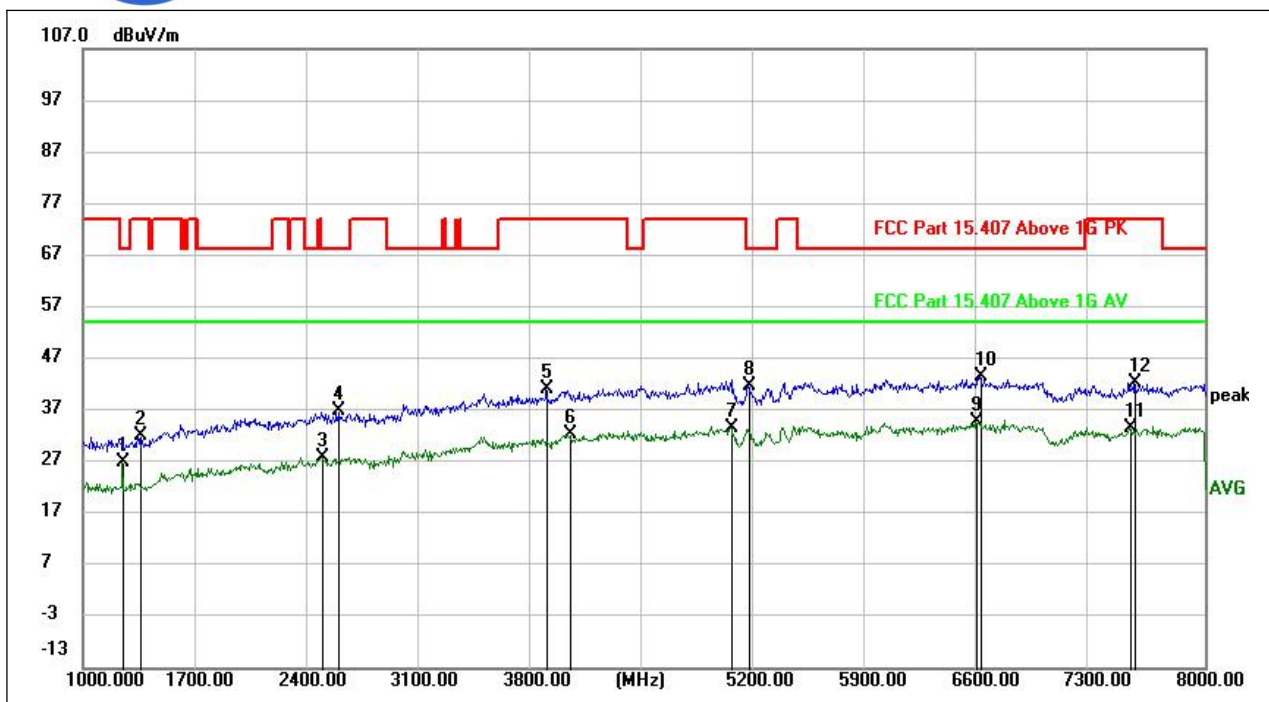
(802.11a_5260MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8362.500	45.16	---	74.00	28.84	H	1.18
8521.000	---	35.48	54.00	18.52	H	1.28
10521.000	---	38.06	54.00	15.94	H	3.05
10524.000	46.17	---	68.20	22.03	H	3.03
12407.000	---	35.26	54.00	18.74	H	4.38
12444.500	44.43	---	74.00	29.57	H	4.77
14400.500	46.71	---	68.20	21.49	H	8.98
14408.500	---	38.44	54.00	15.56	H	8.86
15780.000	55.71	---	74.00	18.29	H	10.30
15780.000	---	48.45	54.00	5.55	H	10.30
17884.000	---	41.95	54.00	12.05	H	15.37
17907.000	50.22	---	74.00	23.78	H	14.85



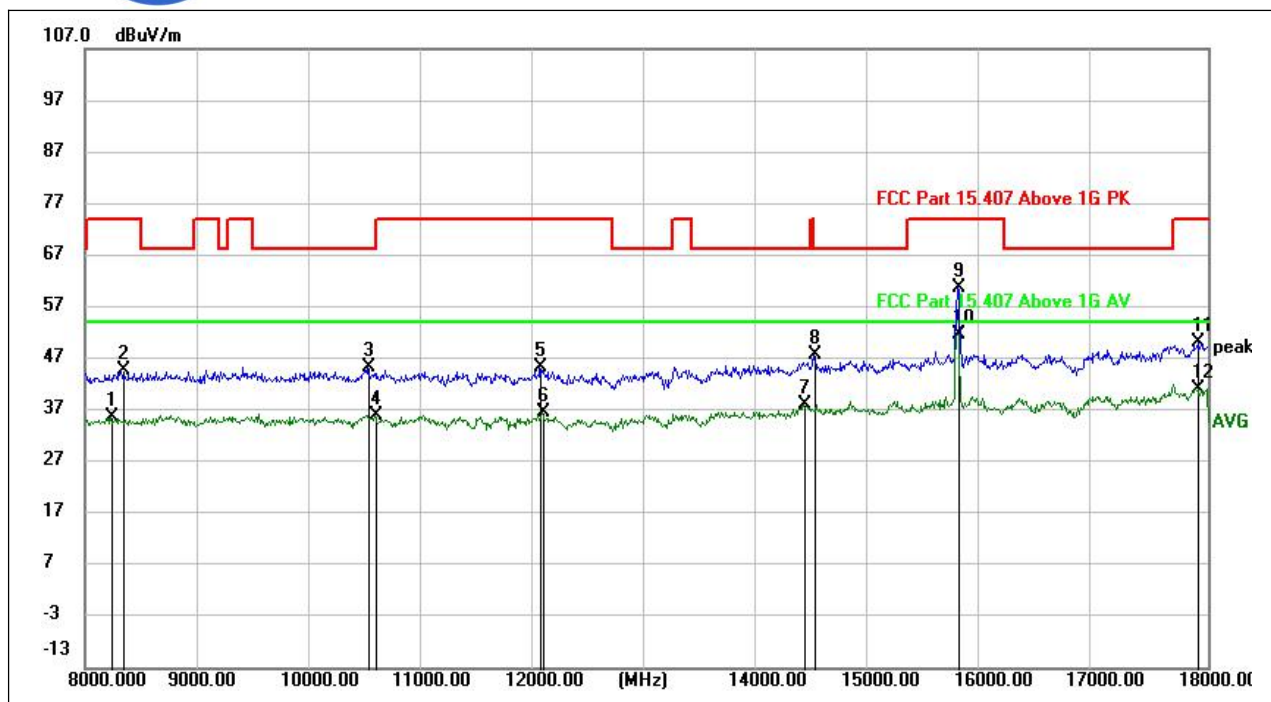
(802.11a _5260MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.0000	31.10	---	40.00	8.90	V	13.90
57.4225	35.51	---	40.00	4.49	V	14.44
80.7857	29.08	---	40.00	10.92	V	10.58
142.0502	17.79	---	43.50	25.71	V	11.43
383.9991	36.96	---	46.00	9.04	V	18.74
824.3077	28.19	---	46.00	17.81	V	26.36



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

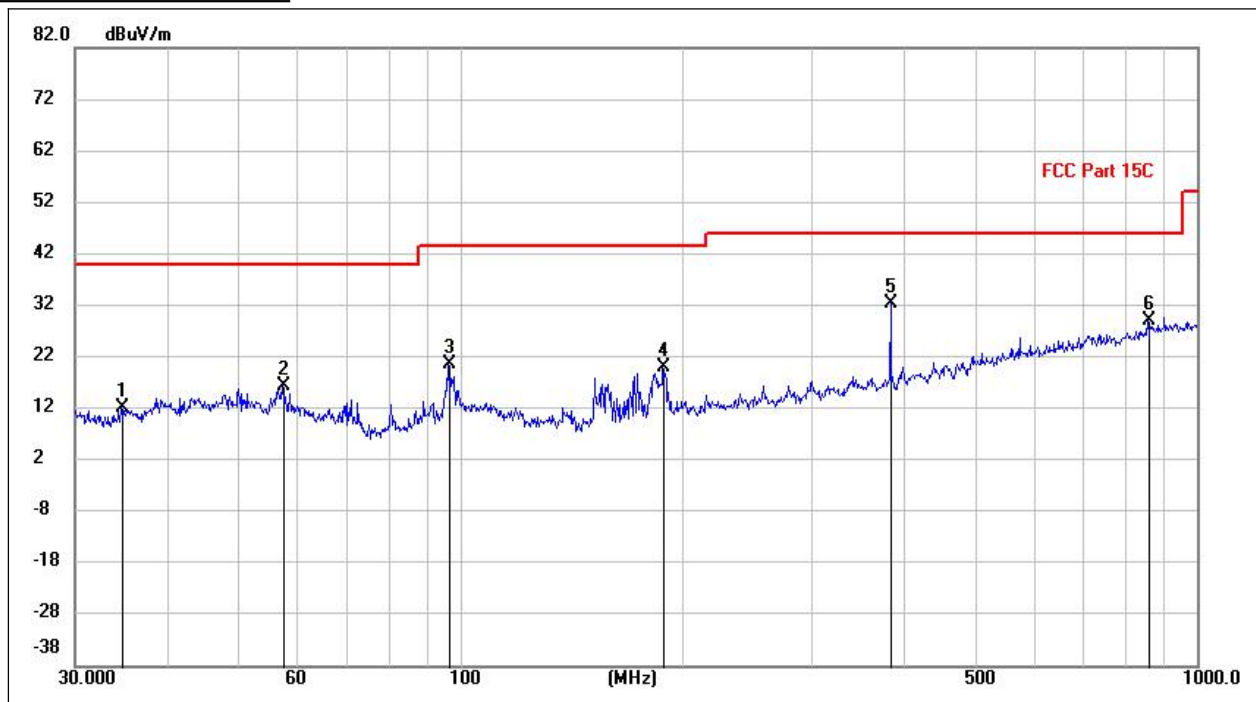
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1249.900	---	27.04	54.00	26.96	V	-17.80
1355.950	32.09	---	74.00	41.91	V	-17.09
2495.200	---	27.91	54.00	26.09	V	-9.96
2591.100	36.93	---	68.20	31.27	V	-10.67
3897.300	41.00	---	74.00	33.00	V	-5.39
4033.450	---	32.29	54.00	21.71	V	-4.41
5044.600	---	33.64	54.00	20.36	V	-2.72
5155.900	41.65	---	68.20	26.55	V	-2.95
6576.200	---	34.86	54.00	19.14	V	-0.93
6600.000	43.68	---	68.20	24.52	V	-0.90
7536.950	---	33.70	54.00	20.30	V	-0.07
7564.950	42.45	---	74.00	31.55	V	-0.11



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

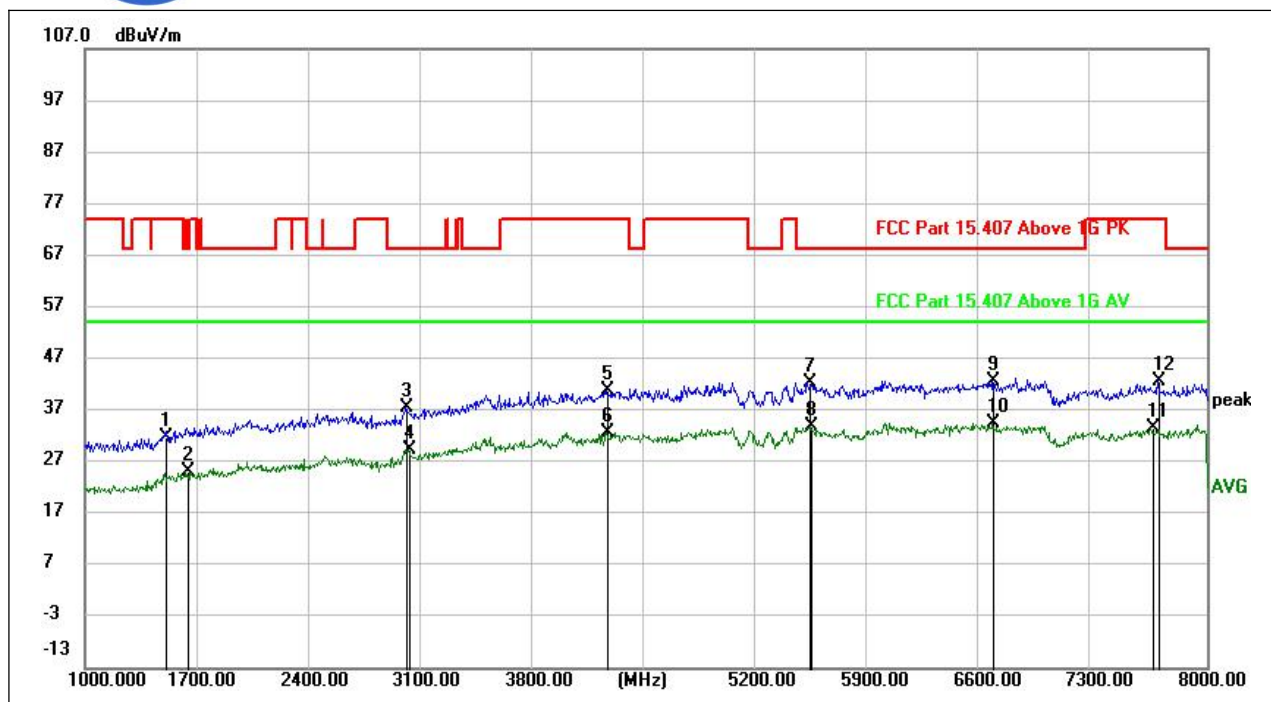
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8238.000	---	35.71	54.00	18.29	V	1.31
8334.000	44.77	---	74.00	29.23	V	1.42
10527.500	45.26	---	68.20	22.94	V	3.58
10585.500	---	36.04	54.00	17.96	V	2.75
12059.000	45.42	---	74.00	28.58	V	5.00
12078.000	---	36.64	54.00	17.36	V	4.74
14406.000	---	38.03	54.00	15.97	V	8.97
14491.500	47.74	---	74.00	26.26	V	9.07
15779.500	60.79	---	74.00	13.21	V	10.30
15780.500	---	51.69	54.00	2.31	V	10.29
17920.000	50.18	---	74.00	23.82	V	15.10
17920.000	---	41.04	54.00	12.96	V	15.10

Plots for Channel = 60



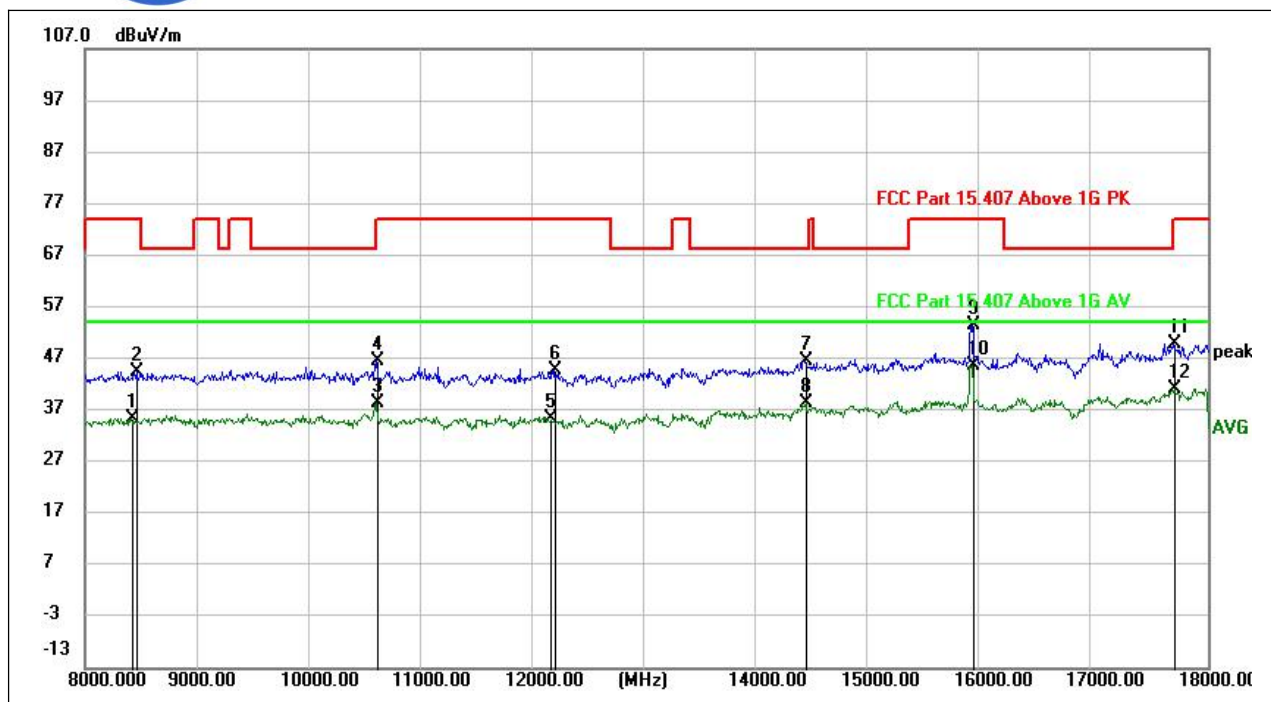
(802.11a _5300MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
34.7419	12.17	---	40.00	27.83	H	12.64
57.4930	16.32	---	40.00	23.68	H	14.42
96.6901	20.56	---	43.50	22.94	H	13.34
188.6108	20.11	---	43.50	23.39	H	13.14
383.9991	32.49	---	46.00	13.51	H	18.74
857.9267	29.00	---	46.00	17.00	H	26.80



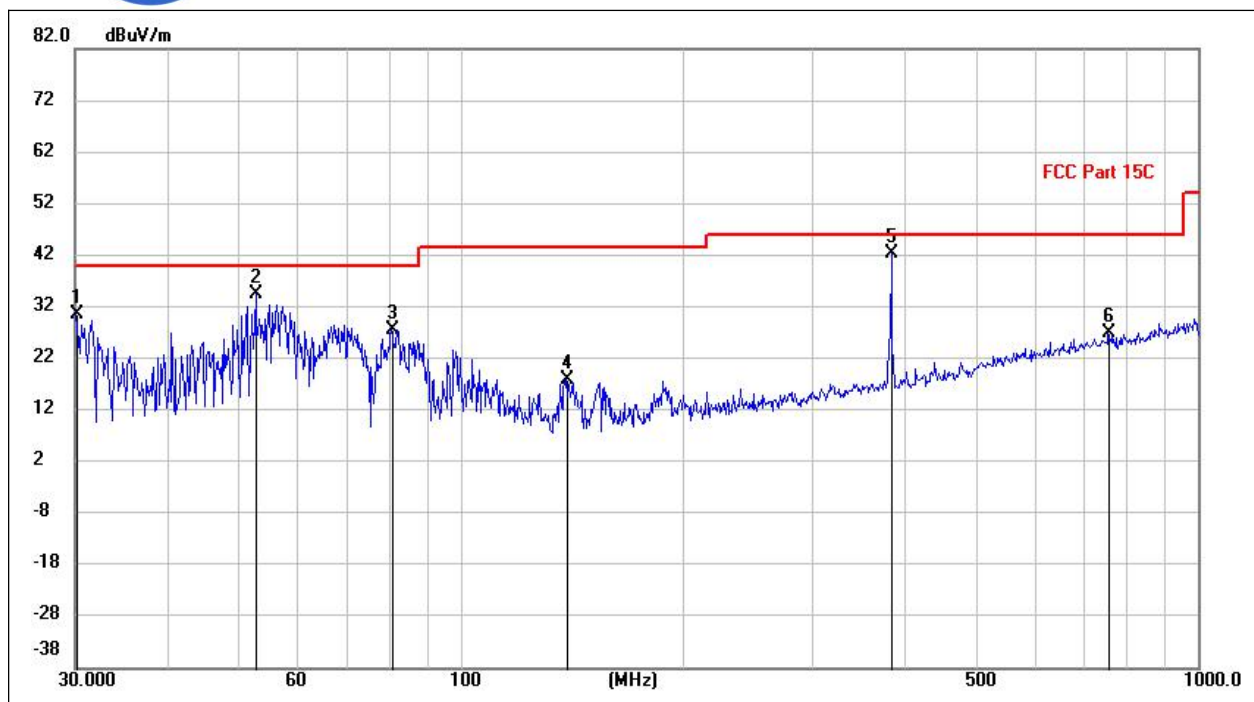
(802.11a _5300MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1500.850	31.67	---	74.00	42.33	H	-15.58
1638.400	---	25.06	54.00	28.94	H	-14.44
3004.800	37.60	---	68.20	30.60	H	-9.13
3023.350	---	29.25	54.00	24.75	H	-8.75
4259.200	40.78	---	74.00	33.22	H	-4.33
4259.200	---	32.80	54.00	21.20	H	-4.33
5518.850	42.47	---	68.20	25.73	H	-2.92
5532.150	---	33.88	54.00	20.12	H	-2.69
6668.600	42.73	---	68.20	25.47	H	-1.44
6668.600	---	34.63	54.00	19.37	H	-1.44
7659.100	---	33.49	54.00	20.51	H	0.34
7692.700	42.54	---	74.00	31.46	H	0.02



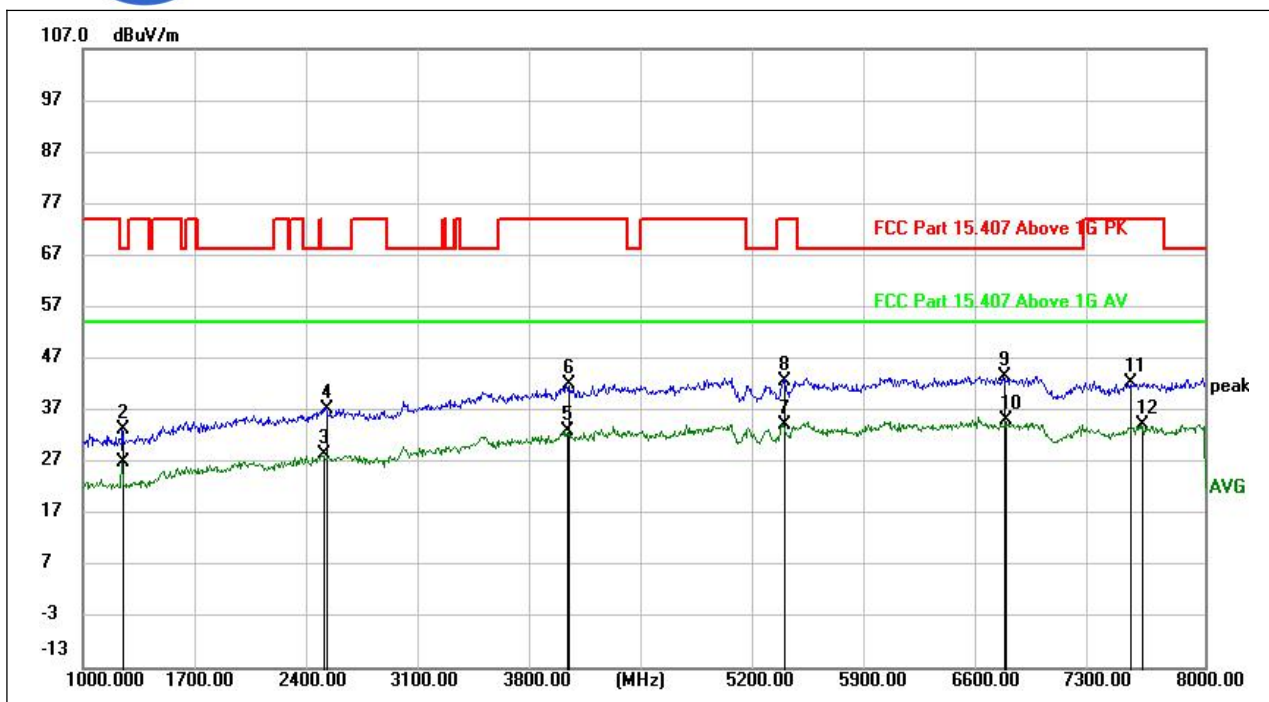
(802.11a_5300MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8423.000	---	35.52	54.00	18.48	H	1.23
8468.000	44.58	---	74.00	29.42	H	1.10
10601.500	---	38.43	54.00	15.57	H	2.64
10603.000	46.48	---	74.00	27.52	H	2.64
12141.000	---	35.28	54.00	18.72	H	4.22
12189.000	44.87	---	74.00	29.13	H	4.32
14420.000	46.54	---	68.20	21.66	H	8.71
14423.500	---	38.28	54.00	15.72	H	8.65
15903.000	53.48	---	74.00	20.52	H	11.15
15903.000	---	45.69	54.00	8.31	H	11.15
17700.000	49.81	---	68.20	18.39	H	14.37
17704.000	---	41.06	54.00	12.94	H	14.41



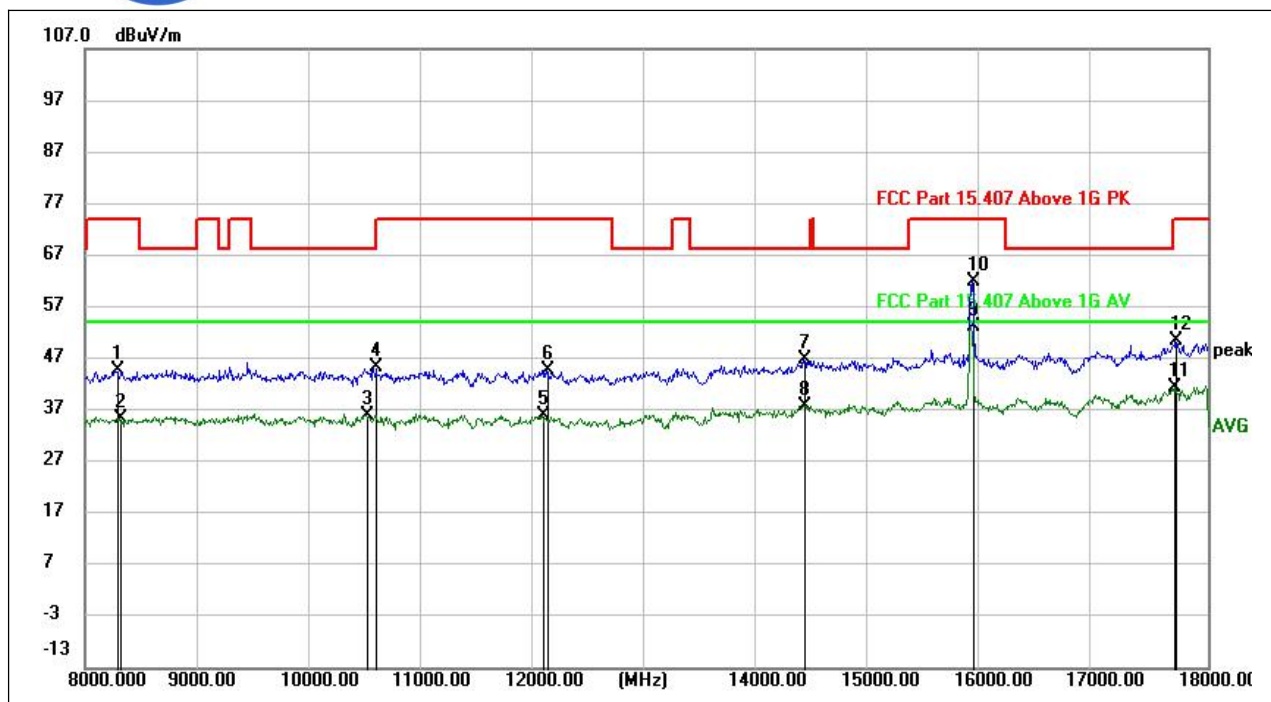
(802.11a _5300MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.1476	30.68	---	40.00	9.32	V	13.64
52.8711	34.64	---	40.00	5.36	V	15.36
80.7574	27.56	---	40.00	12.44	V	10.59
139.0928	18.01	---	43.50	25.49	V	11.73
383.9991	42.46	---	46.00	3.54	V	18.74
755.6523	26.97	---	46.00	19.03	V	26.07



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

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
1249.900	---	27.04	54.00	26.96	V	-17.80
1250.250	33.31	---	68.20	34.89	V	-17.80
2500.100	---	28.49	54.00	25.51	V	-9.41
2515.850	37.35	---	68.20	30.85	V	-10.44
4019.800	---	32.88	54.00	21.12	V	-4.13
4024.350	41.94	---	74.00	32.06	V	-4.17
5369.400	---	34.24	54.00	19.76	V	-2.73
5375.700	42.56	---	74.00	31.44	V	-2.71
6745.250	43.65	---	68.20	24.55	V	-1.43
6759.250	---	35.18	54.00	18.82	V	-1.41
7534.500	42.47	---	74.00	31.53	V	-0.08
7613.950	---	34.06	54.00	19.94	V	-0.04

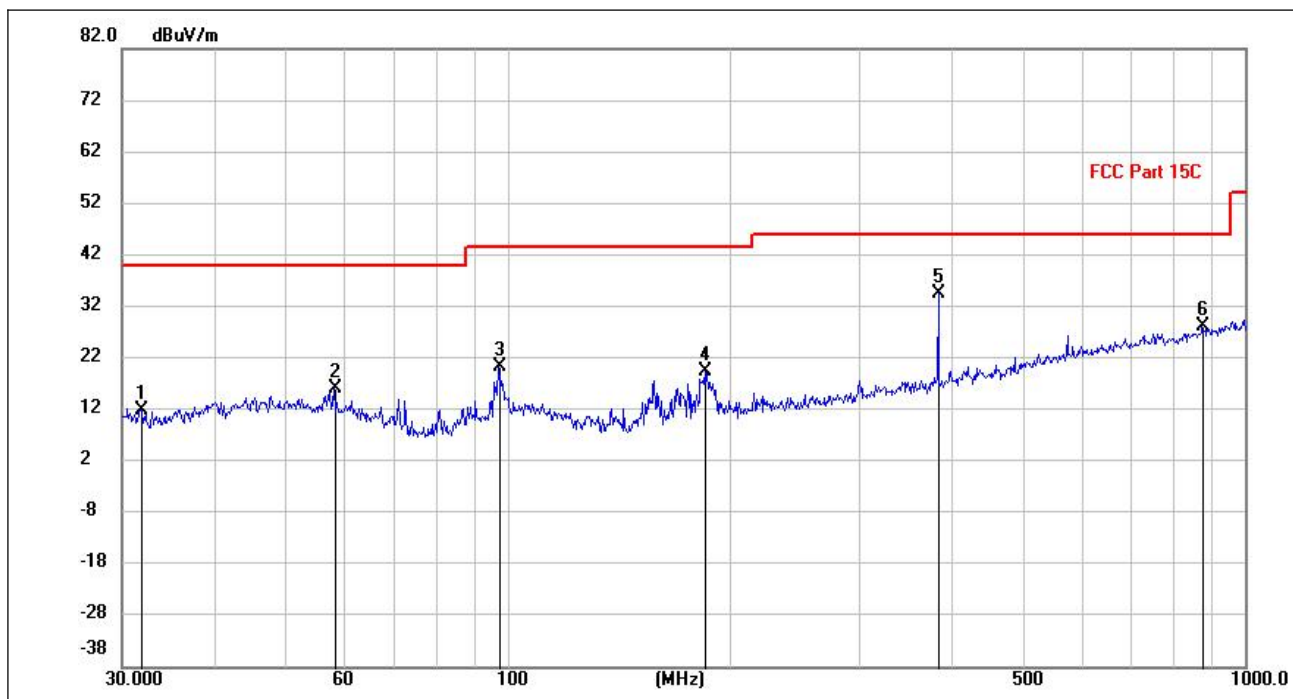


(802.11a_5810MHz, Antenna Vertical, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8282.500	44.69	---	74.00	29.31	V	1.43
8319.500	---	35.43	54.00	18.57	V	1.54
10502.000	---	36.07	54.00	17.93	V	3.97
10585.000	45.24	---	68.20	22.96	V	2.76
12071.500	---	36.12	54.00	17.88	V	4.82
12117.000	44.84	---	74.00	29.16	V	4.32
14406.000	46.93	---	68.20	21.27	V	8.97
14406.000	---	37.95	54.00	16.05	V	8.97
15902.500	---	50.99	54.00	3.01	V	11.09
15906.500	61.85	---	74.00	12.15	V	11.11
17706.000	---	41.45	54.00	12.55	V	14.43
17719.500	50.52	---	74.00	23.48	V	14.56

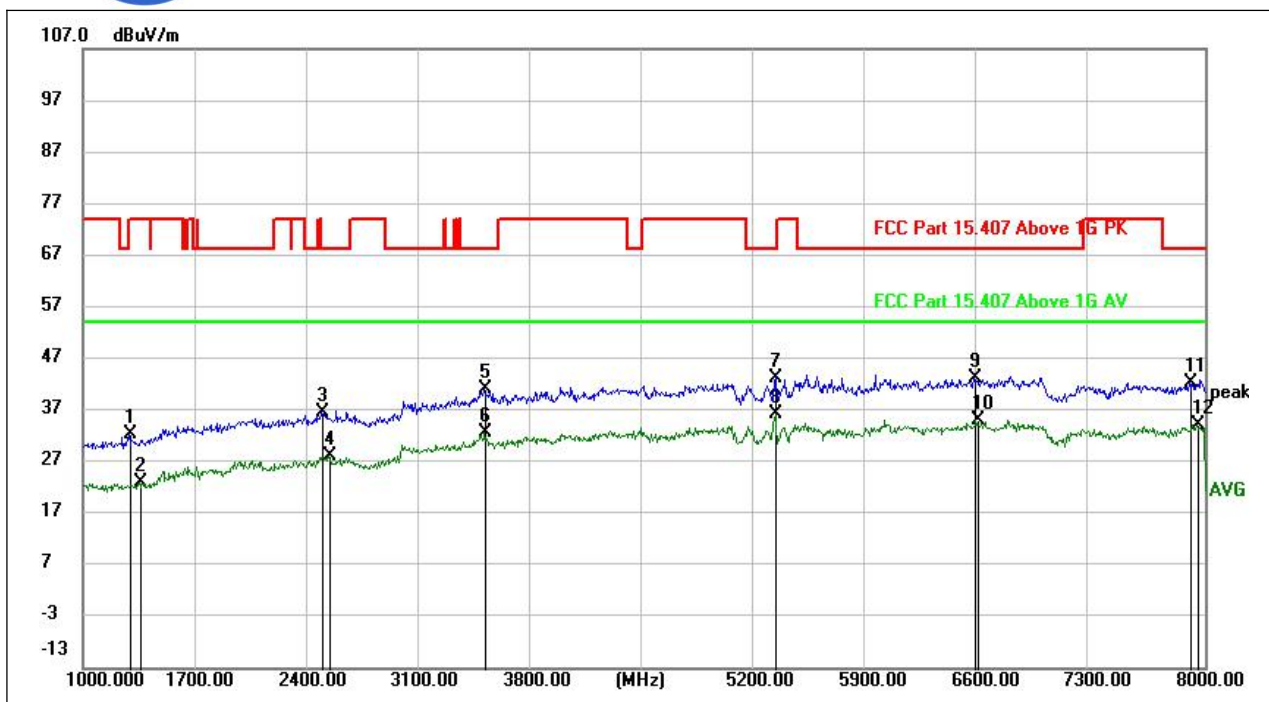


Plot for Channel = 64



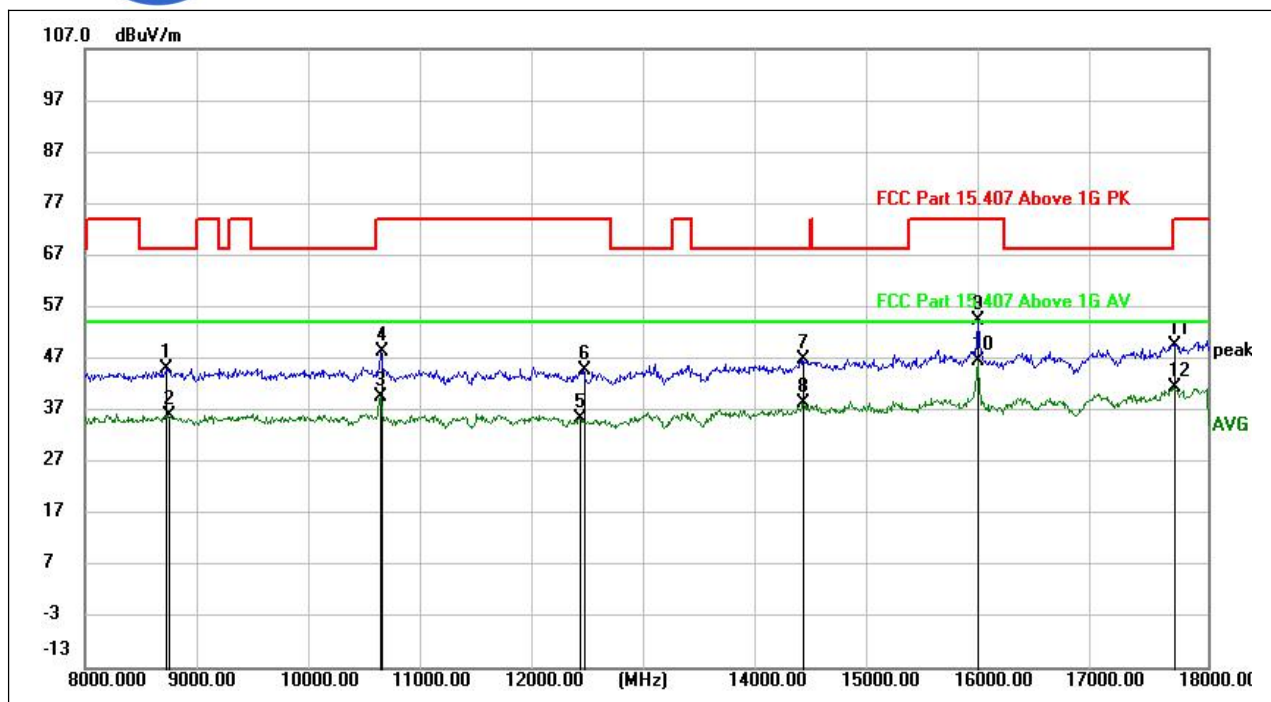
(802.11a _5320MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
31.8874	11.80	---	40.00	28.20	H	12.14
58.2234	16.11	---	40.00	23.89	H	14.33
97.3023	20.37	---	43.50	23.13	H	13.44
185.2678	19.34	---	43.50	24.16	H	12.26
383.9991	34.48	---	46.00	11.52	H	18.74
876.1682	28.21	---	46.00	17.79	H	27.55



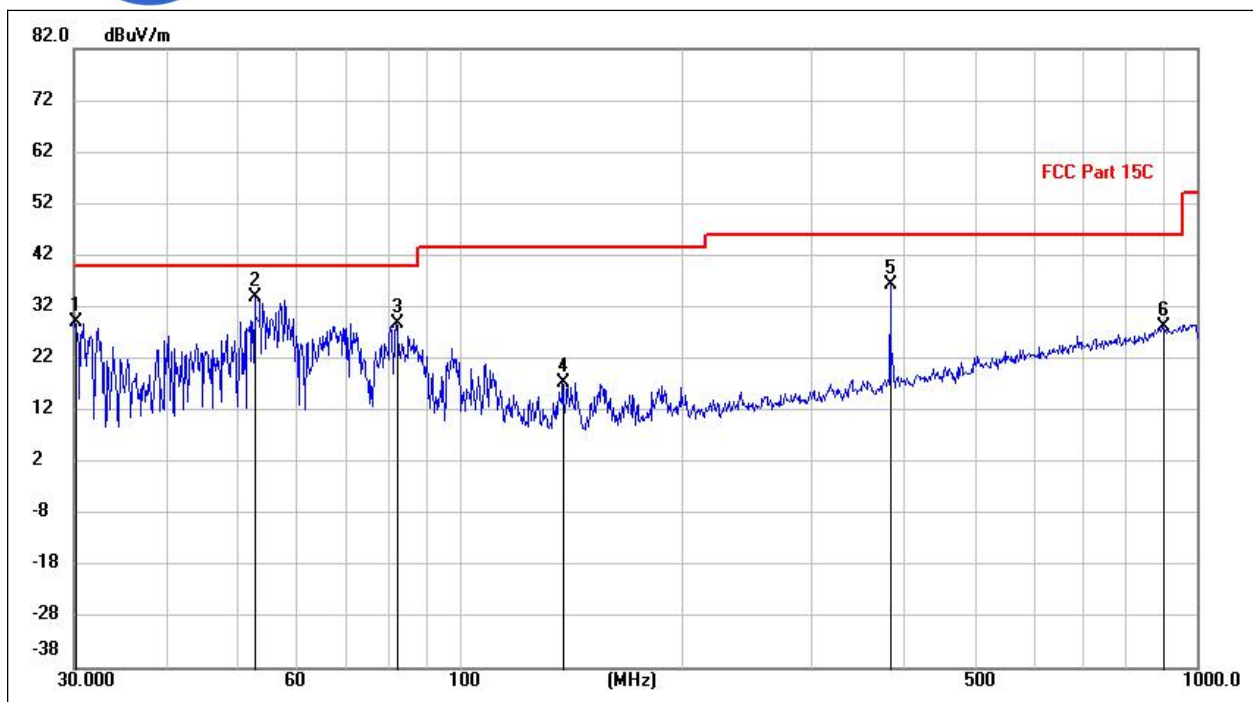
(802.11a _5230MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1293.650	32.32	32.32	68.20	35.88	H	-17.29
1359.450	22.92	22.92	54.00	31.08	H	-17.09
2497.300	36.61	36.61	74.00	37.39	H	-11.24
2538.250	28.10	28.10	54.00	25.90	H	-10.65
3512.650	41.17	41.17	68.20	27.03	H	-7.80
3512.650	32.59	32.59	54.00	21.41	H	-7.80
5324.600	43.38	43.38	68.20	24.82	H	-2.82
5324.600	36.34	36.34	54.00	17.66	H	-2.82
6564.300	43.18	43.18	68.20	25.02	H	-1.49
6579.700	35.13	35.13	54.00	18.87	H	-1.13
7908.650	42.20	42.20	68.20	26.00	H	0.22
7952.400	34.27	34.27	54.00	19.73	H	0.75



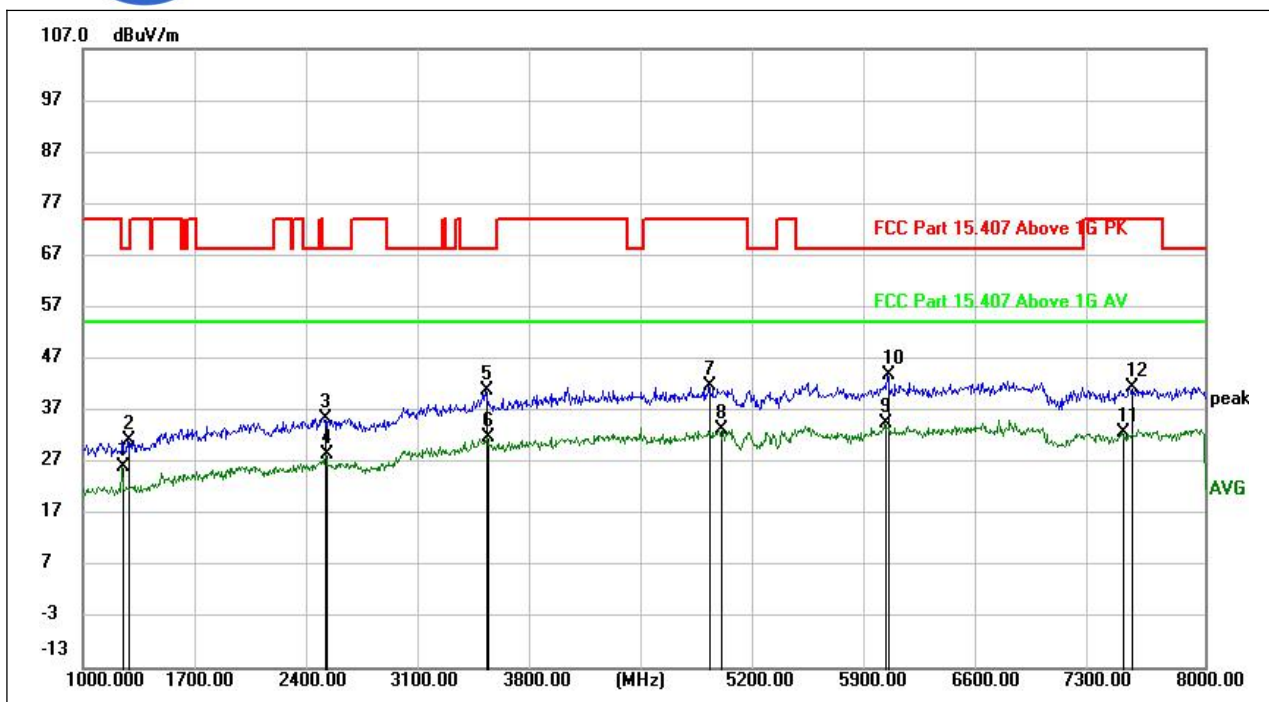
(802.11a _5320MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8729.500	45.06	---	68.20	23.14	H	1.69
8742.000	---	35.97	54.00	18.03	H	1.68
10638.000	---	39.70	54.00	14.30	H	2.65
10642.000	48.29	---	74.00	25.71	H	2.63
12408.500	---	35.27	54.00	18.73	H	4.39
12444.500	44.69	---	74.00	29.31	H	4.77
14400.000	46.85	---	68.20	21.35	H	8.98
14400.000	---	38.34	54.00	15.66	H	8.98
15956.000	54.27	---	74.00	19.73	H	11.52
15956.000	---	46.56	54.00	7.44	H	11.52
17706.000	49.67	---	74.00	24.33	H	14.43
17706.000	---	41.41	54.00	12.59	H	14.43



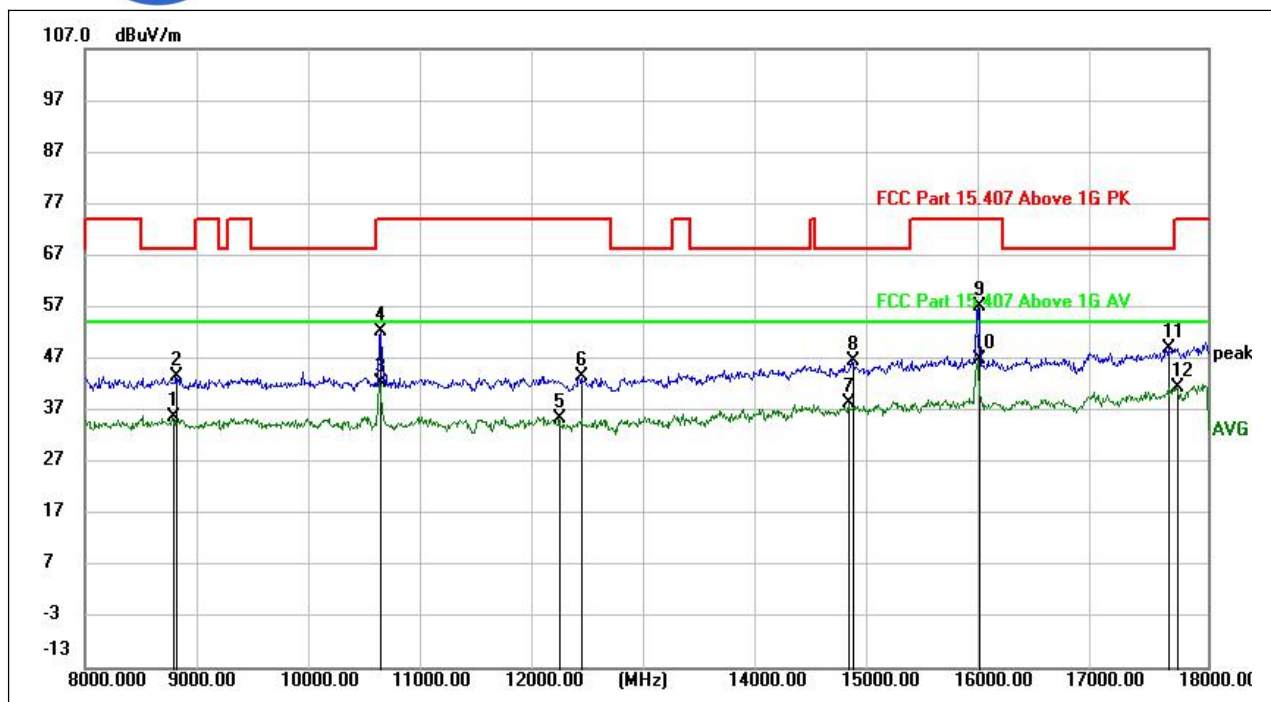
(802.11a _5320MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.1212	29.16	---	40.00	10.84	V	40.00
52.8989	33.82	---	40.00	6.18	V	40.00
82.1425	28.83	---	40.00	11.17	V	40.00
138.0723	17.43	---	43.50	26.07	V	43.50
383.9991	36.23	---	46.00	9.77	V	46.00
899.6741	28.30	---	46.00	17.70	V	46.00



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

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
1250.250	---	26.19	54.00	27.81	V	-17.80
1286.650	31.21	---	68.20	36.99	V	-17.39
2506.050	35.54	---	68.20	32.66	V	-10.06
2513.400	---	28.50	54.00	25.50	V	-10.46
3513.350	40.77	---	68.20	27.43	V	-5.66
3522.100	---	31.83	54.00	22.17	V	-5.93
4911.600	41.82	---	74.00	32.18	V	-2.99
4977.050	---	33.28	54.00	20.72	V	-2.69
6008.850	---	34.44	54.00	19.56	V	-1.31
6021.450	43.79	---	68.20	24.41	V	-1.47
7486.200	---	32.71	54.00	21.29	V	-0.43
7538.350	41.37	---	74.00	32.63	V	-0.05

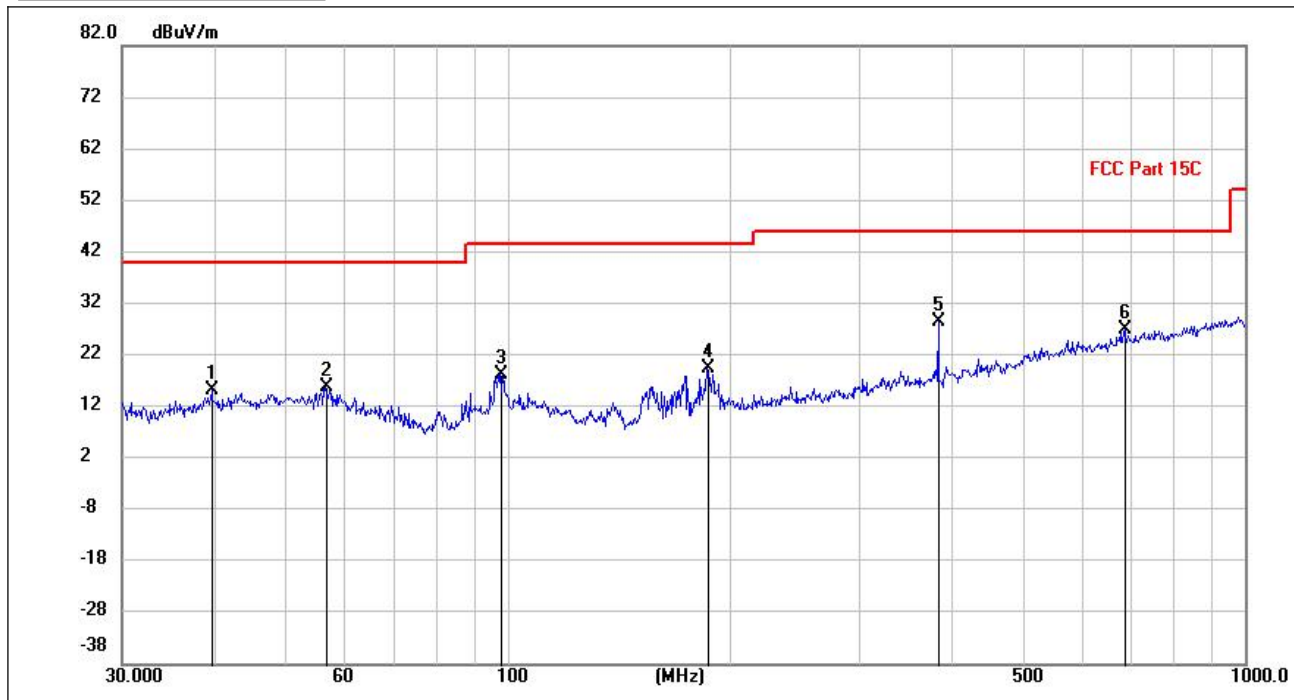


(802.11a _5320MHz, Antenna Vertical, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8784.000	---	35.64	54.00	18.36	V	1.62
8819.000	43.40	---	68.20	24.80	V	1.90
10633.000	---	42.30	54.00	11.70	V	2.68
10640.000	52.34	---	74.00	21.66	V	2.64
12226.000	---	35.42	54.00	18.58	V	4.07
12411.000	43.50	---	74.00	30.50	V	4.37
14809.500	---	38.35	54.00	15.65	V	9.07
14836.000	46.51	---	68.20	21.69	V	9.08
15960.500	57.14	---	74.00	16.86	V	11.48
15960.500	---	46.84	54.00	7.16	V	11.48
17653.000	49.06	---	68.20	19.14	V	13.87
17729.000	---	41.35	54.00	12.65	V	14.65

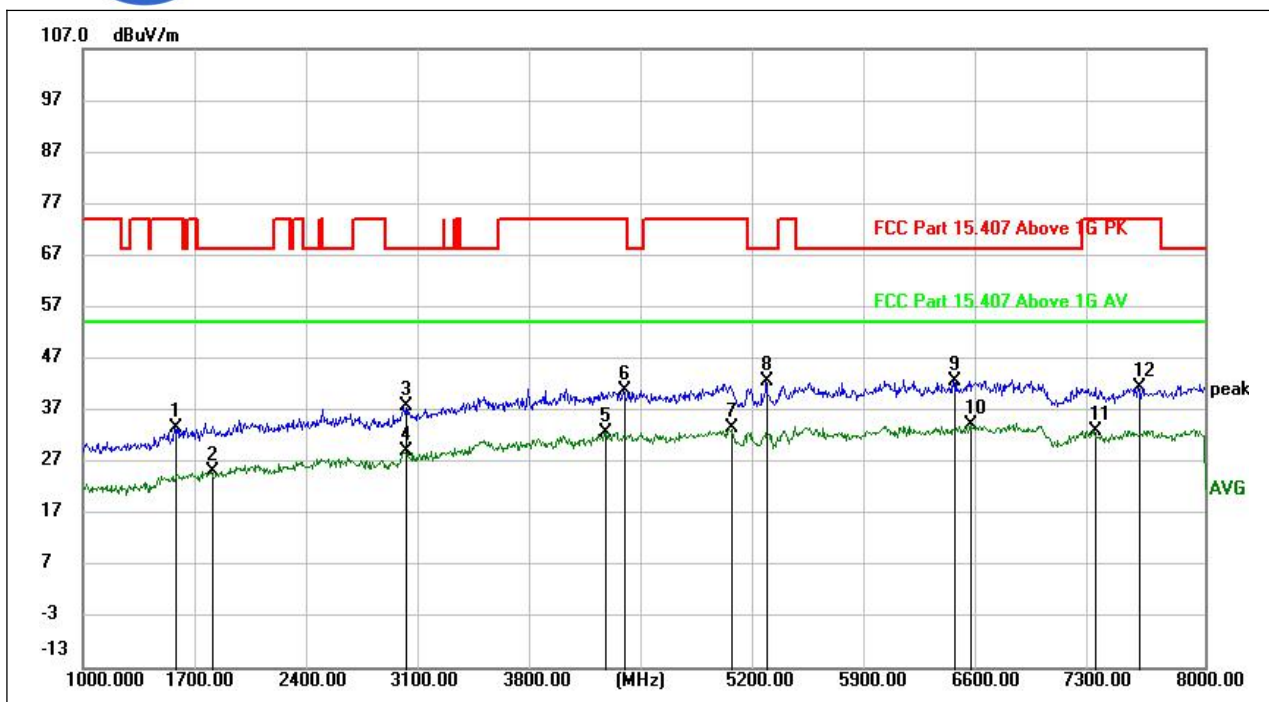


Plots for Channel = 149



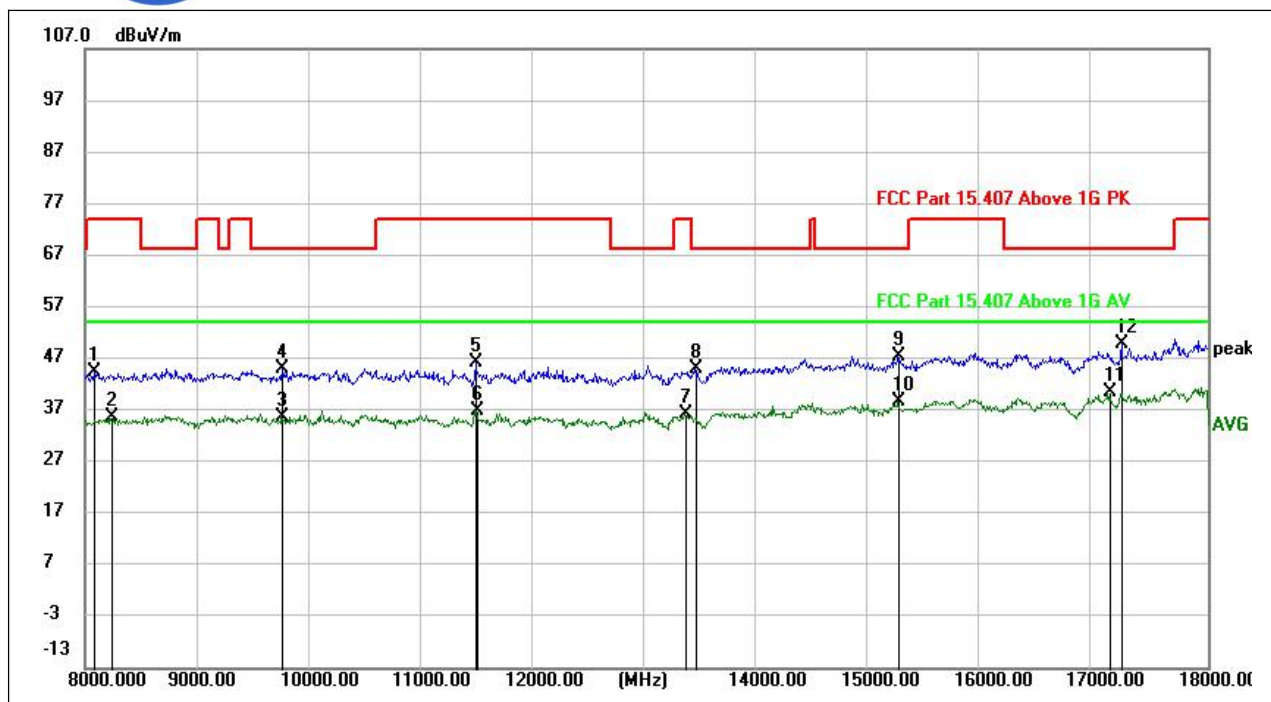
(802.11a _5745MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
39.7565	15.17	---	40.00	24.83	H	15.33
56.6426	15.77	---	40.00	24.23	H	14.67
97.9356	18.34	---	43.50	25.16	H	13.54
186.6698	19.31	---	43.50	24.19	H	12.65
383.9991	28.48	---	46.00	17.52	H	18.74
687.8739	27.02	---	46.00	18.98	H	24.77



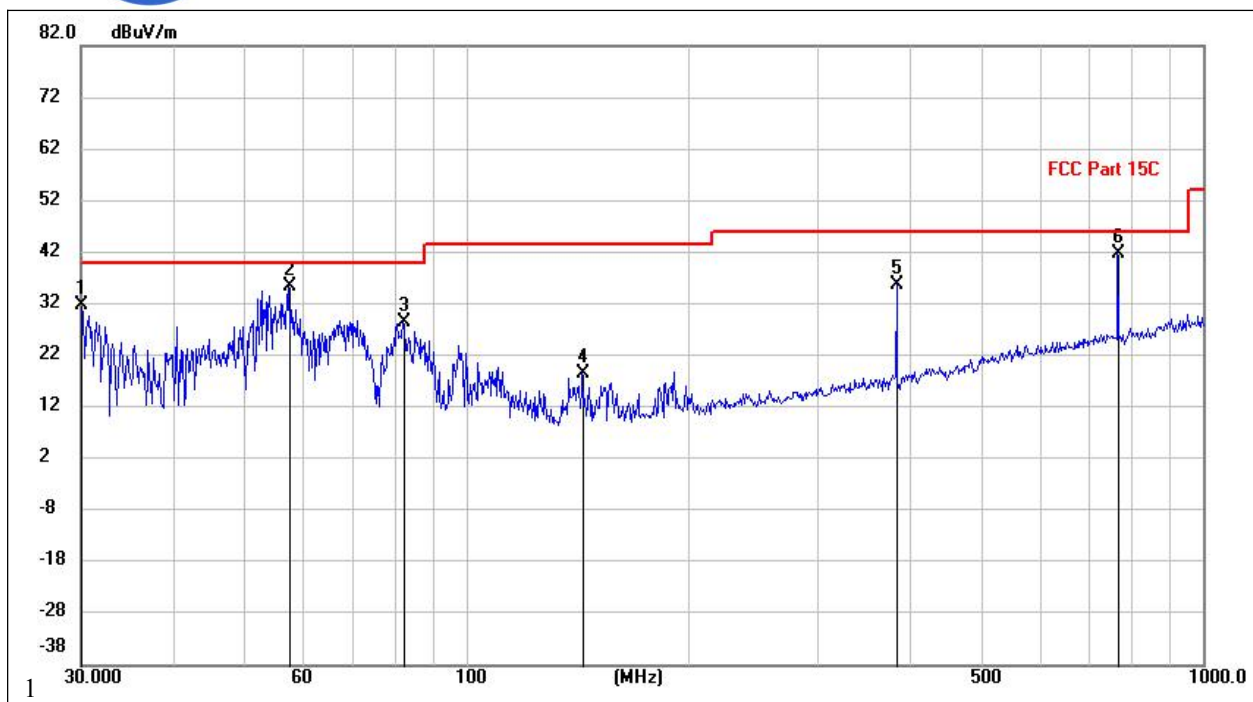
(802.11a _5745MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1575.750	33.62	---	74.00	40.38	H	-14.96
1805.700	---	25.20	54.00	28.80	H	-14.02
3014.600	37.72	---	68.20	30.48	H	-8.96
3014.600	---	29.01	54.00	24.99	H	-8.96
4260.600	---	32.78	54.00	21.22	H	-4.33
4380.650	40.85	---	74.00	33.15	H	-4.16
5041.100	---	33.65	54.00	20.35	H	-2.88
5265.800	42.52	---	68.20	25.68	H	-2.96
6436.900	42.70	---	68.20	25.50	H	-2.03
6541.900	---	34.22	54.00	19.78	H	-1.99
7313.650	---	33.07	54.00	20.93	H	-0.71
7588.750	41.52	---	74.00	32.48	H	-0.15



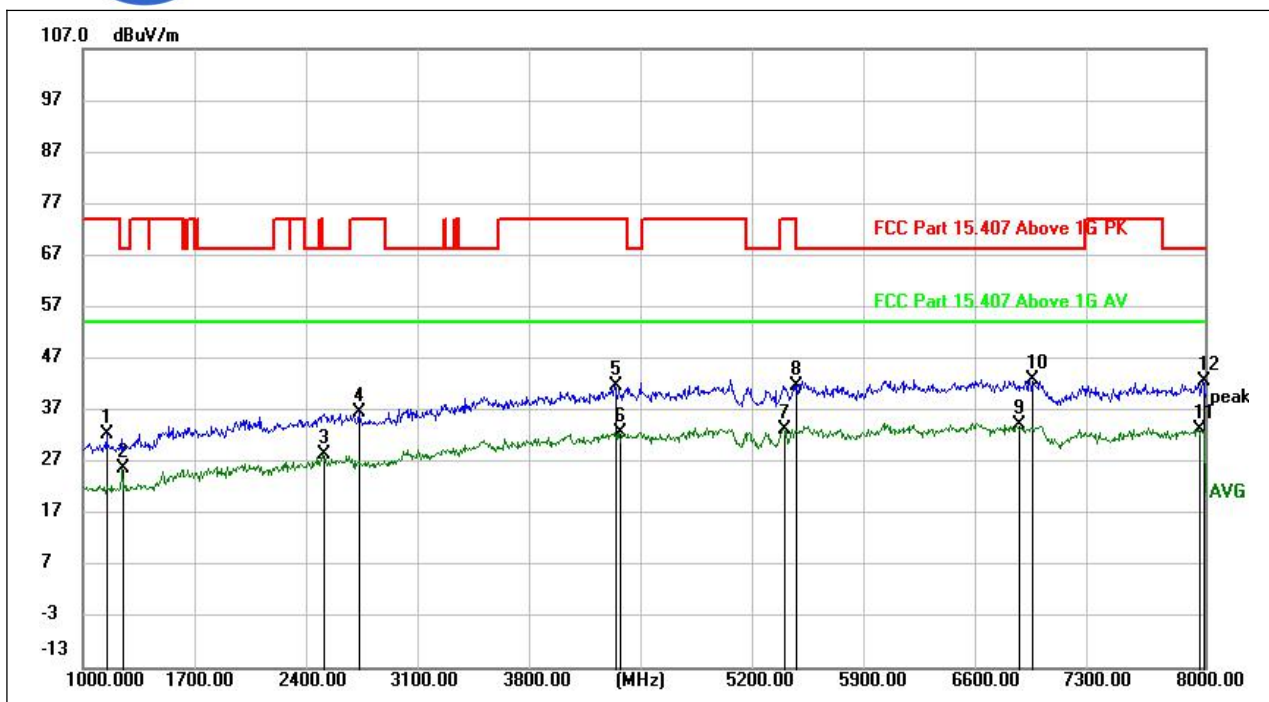
(802.11a _5745MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8083.500	44.31	---	74.00	29.69	H	1.02
8231.000	---	35.70	54.00	18.30	H	1.37
9759.000	---	35.84	54.00	18.16	H	2.08
9760.000	44.96	---	68.20	23.24	H	2.08
11490.000	46.12	---	74.00	27.88	H	3.47
11491.500	---	36.86	54.00	17.14	H	3.49
13343.500	---	36.16	54.00	17.84	H	6.45
13437.000	44.90	---	68.20	23.30	H	6.60
15241.500	47.56	---	68.20	20.64	H	10.02
15241.500	---	38.59	54.00	15.41	H	10.02
17126.000	---	40.50	54.00	13.50	H	11.98
17237.000	49.87	---	68.20	18.33	H	12.67



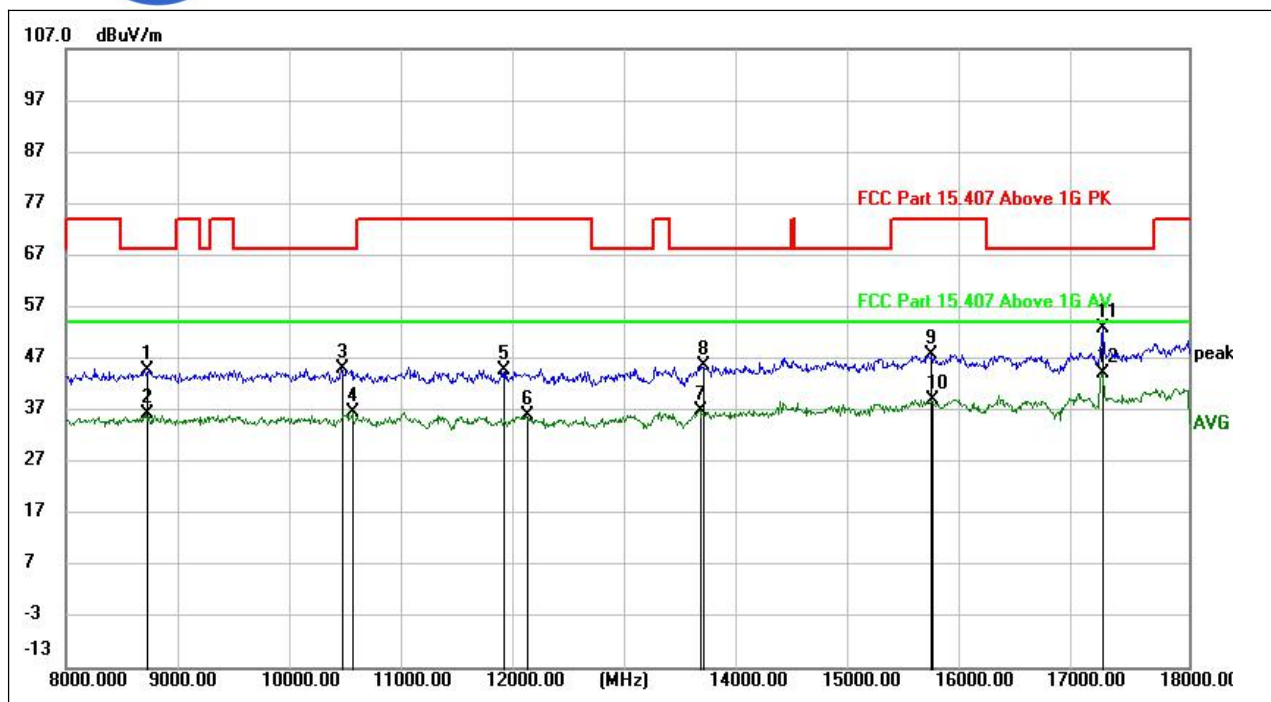
(802.11a _5745MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.0000	31.90	---	40.00	8.10	V	13.90
57.4427	35.41	---	40.00	4.59	V	14.43
82.2146	28.63	---	40.00	11.37	V	9.98
144.0314	18.56	---	43.50	24.94	V	10.59
383.9991	35.85	---	46.00	10.15	V	18.74
768.0745	41.82	---	46.00	4.18	V	26.18



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

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
1149.450	32.30	---	74.00	41.70	V	-17.68
1249.900	---	25.78	54.00	28.22	V	-17.80
2503.250	---	28.31	54.00	25.69	V	-9.75
2726.900	36.65	---	74.00	37.35	V	-10.26
4321.850	41.80	---	74.00	32.20	V	-3.50
4350.900	---	32.72	54.00	21.28	V	-3.94
5376.050	---	33.25	54.00	20.75	V	-2.71
5446.400	41.62	---	74.00	32.38	V	-2.59
6831.350	---	34.22	54.00	19.78	V	-1.49
6917.450	42.92	---	68.20	25.28	V	-1.20
7964.300	---	33.16	54.00	20.84	V	0.78
7990.200	42.58	---	68.20	25.62	V	0.36

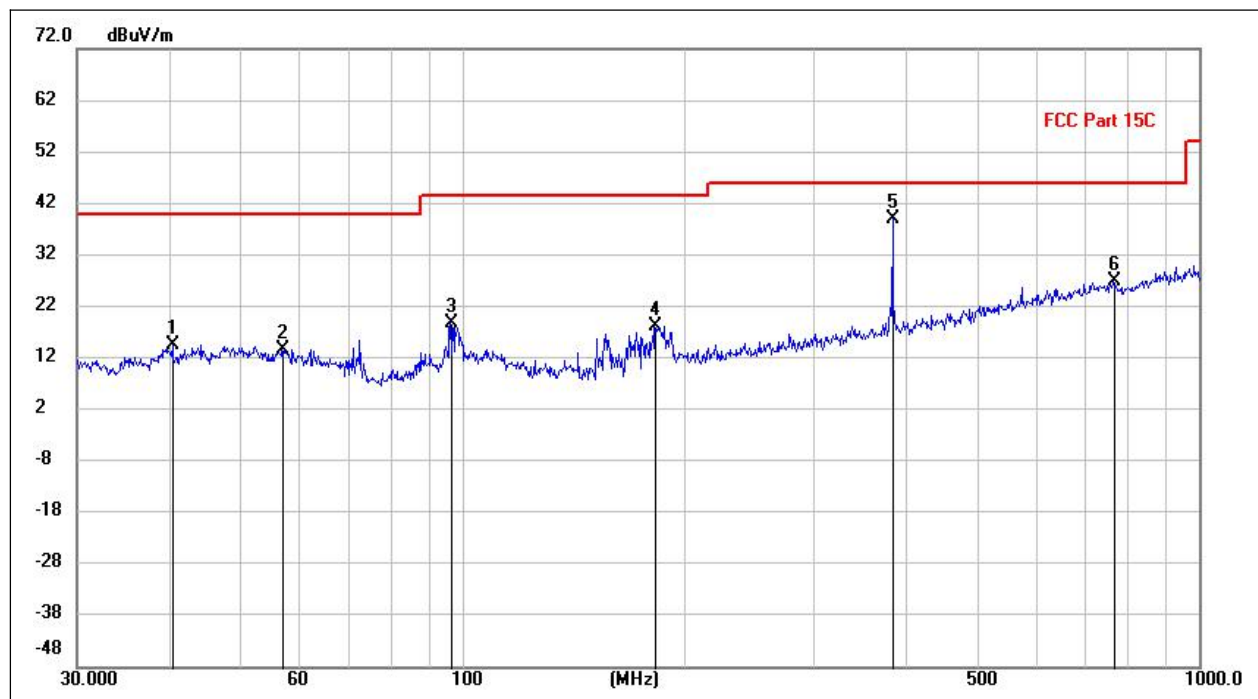


(802.11a _5745MHz, Antenna Vertical, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8715.000	44.60	---	68.20	23.60	V	1.67
8723.000	---	36.21	54.00	17.79	V	1.69
10453.500	45.14	---	68.20	23.06	V	3.35
10554.500	---	36.55	54.00	17.45	V	3.12
11892.500	44.80	---	74.00	29.20	V	4.28
12109.500	---	36.11	54.00	17.89	V	4.30
13659.000	---	36.96	54.00	17.04	V	7.24
13671.500	45.77	---	68.20	22.43	V	7.25
15694.000	47.72	---	74.00	26.28	V	11.06
15720.000	---	38.99	54.00	15.01	V	10.70
17237.500	53.02	---	68.20	15.18	V	12.67
17237.500	---	44.24	54.00	9.76	V	12.67

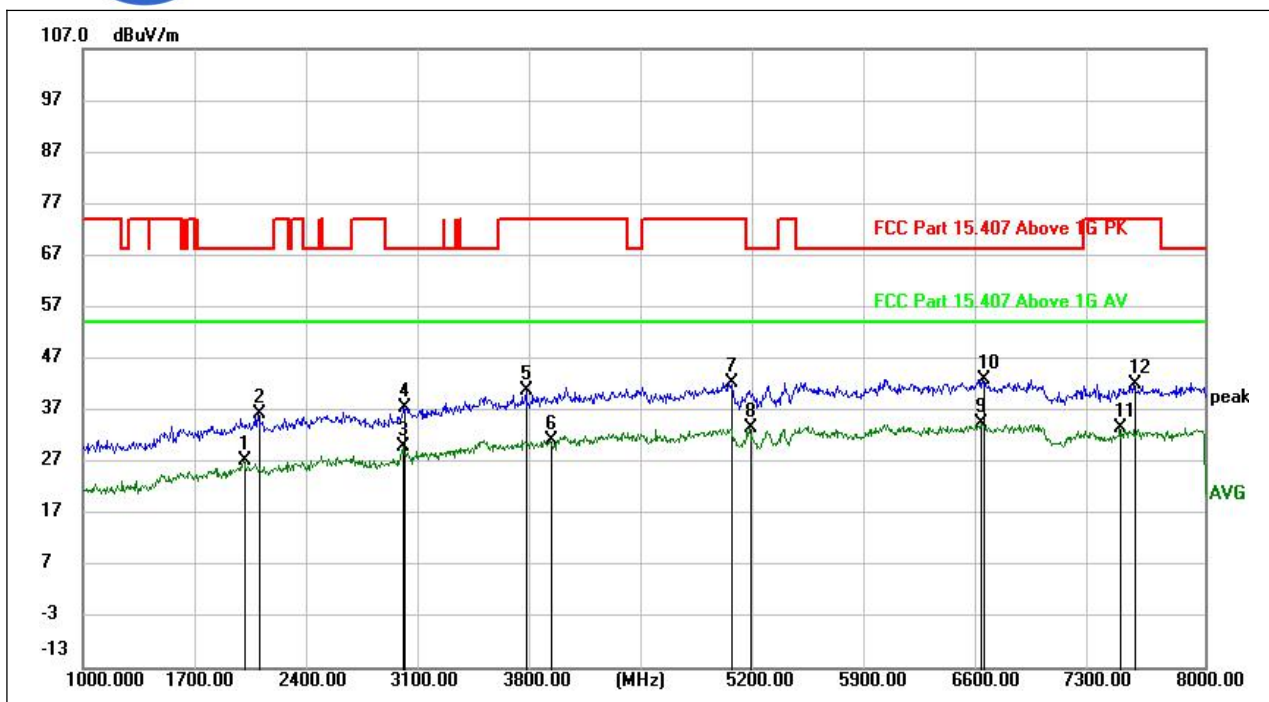


Plot for Channel = 157



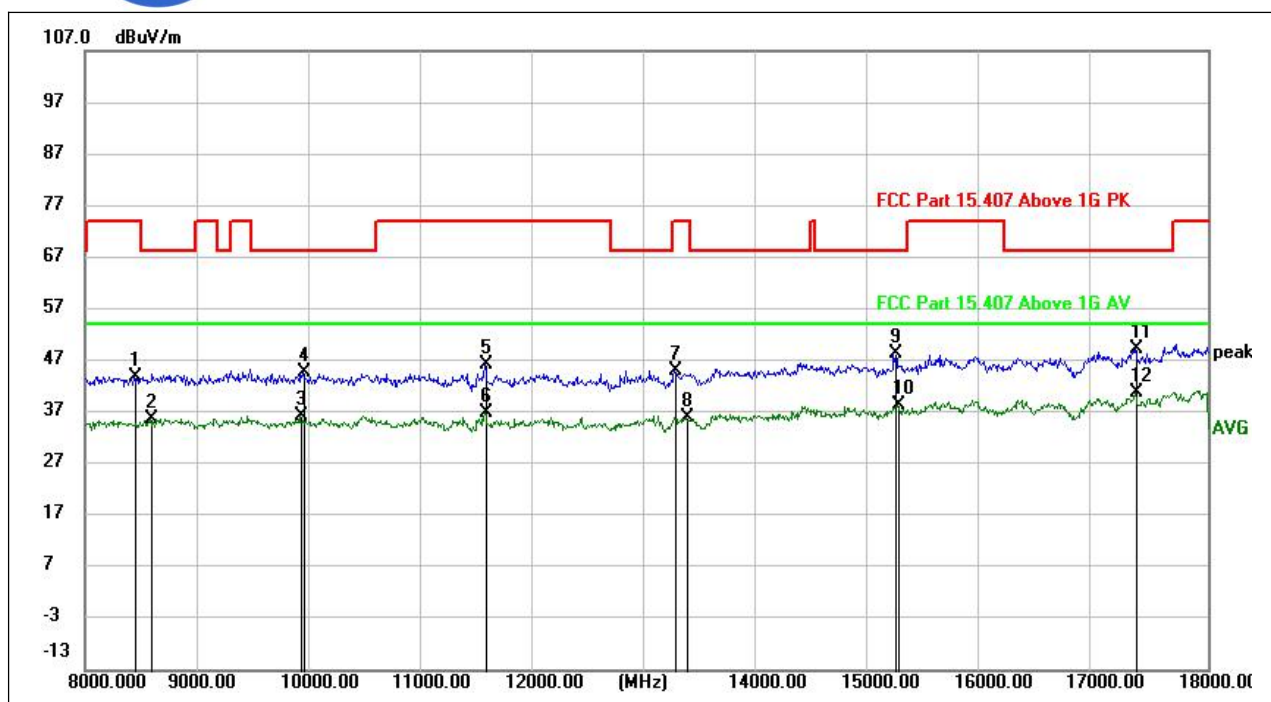
(802.11a _5785MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
40.4597	14.59	---	40.00	25.41	H	15.25
57.0912	13.76	---	40.00	26.24	H	14.54
96.6562	18.74	---	43.50	24.76	H	13.34
183.0400	18.07	---	43.50	25.43	H	12.44
383.9991	39.04	---	46.00	6.96	H	18.74
767.1325	27.03	---	46.00	18.97	H	26.19



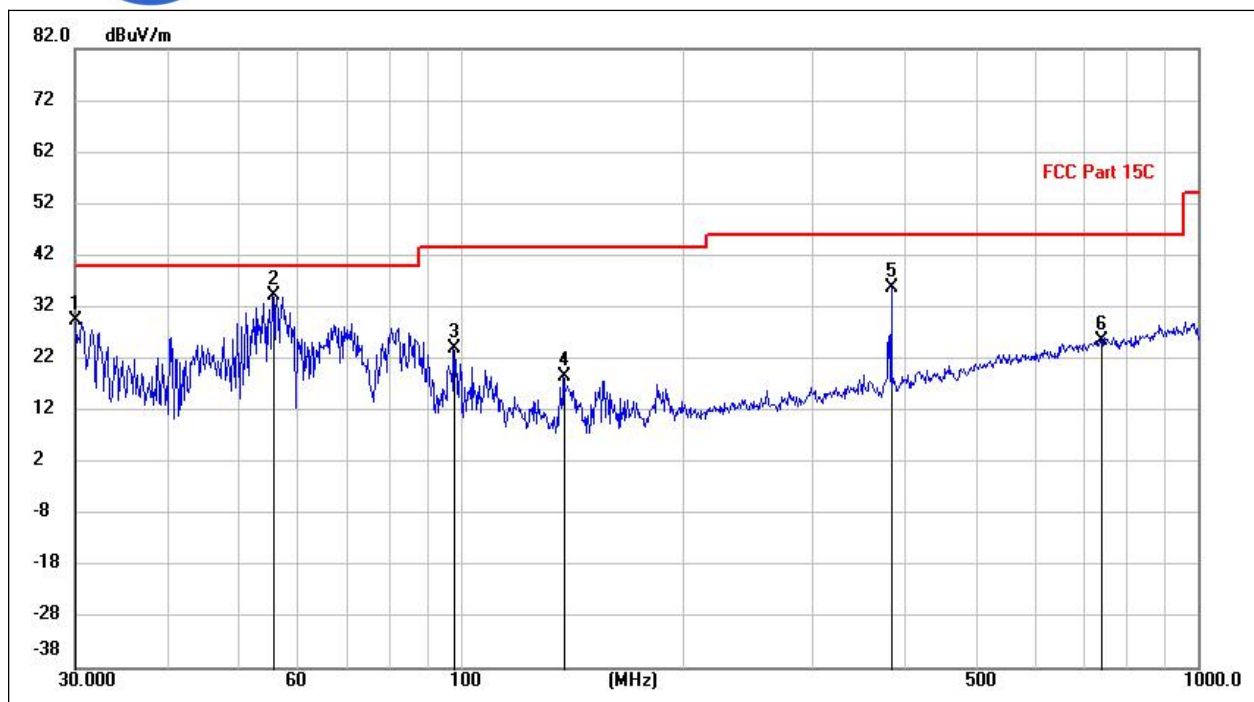
(802.11a _5785MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
2012.200	---	27.18	54.00	26.82	H	-12.63
2098.650	36.29	---	68.20	31.91	H	-12.21
3001.300	---	30.00	54.00	24.00	H	-9.18
3005.850	37.63	---	68.20	30.57	H	-9.10
3771.300	40.88	---	74.00	33.12	H	-5.78
3913.750	---	31.30	54.00	22.70	H	-5.48
5042.150	42.32	---	74.00	31.68	H	-2.86
5163.600	---	33.57	54.00	20.43	H	-2.97
6604.200	---	34.55	54.00	19.45	H	-0.94
6620.300	42.97	---	68.20	25.23	H	-1.11
7473.950	---	33.51	54.00	20.49	H	-0.45
7560.400	41.89	---	74.00	32.11	H	-0.06



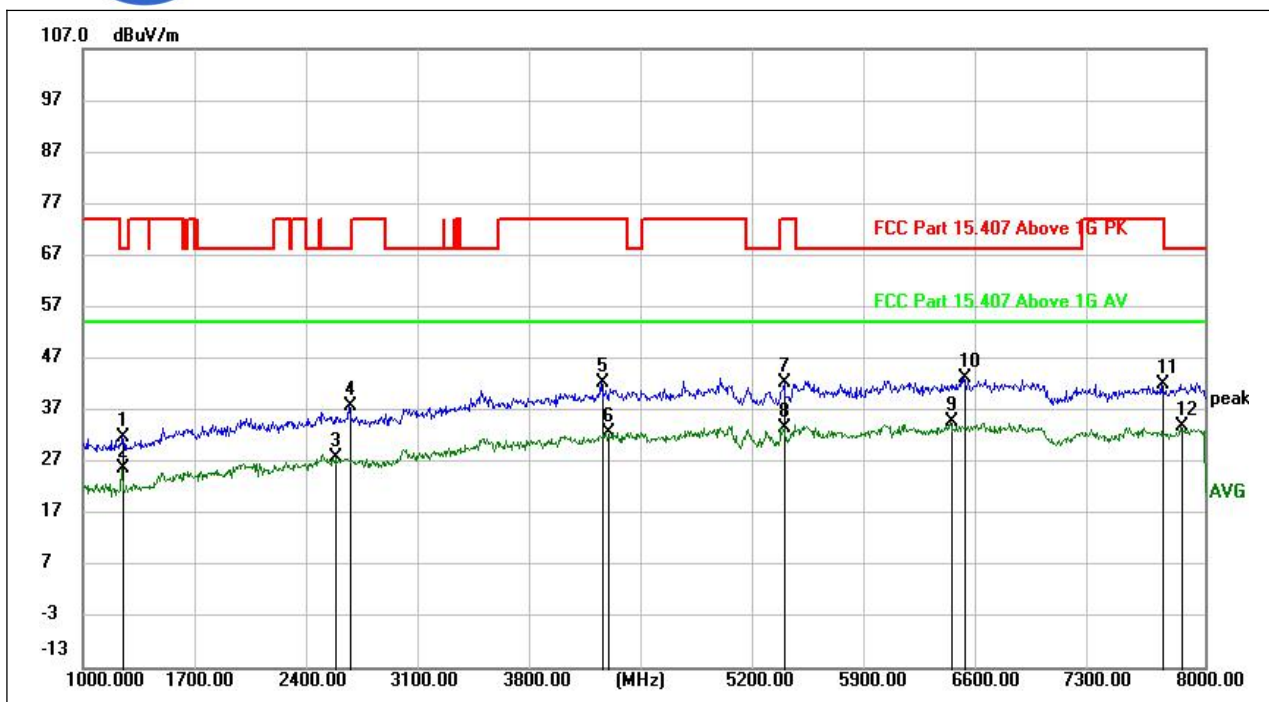
(802.11a_5785MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8449.500	43.79	---	74.00	30.21	H	1.17
8587.500	---	35.56	54.00	18.44	H	1.51
9924.000	---	36.33	54.00	17.67	H	2.26
9944.000	44.65	---	68.20	23.55	H	2.27
11570.500	46.20	---	74.00	27.80	H	4.13
11570.500	---	36.83	54.00	17.17	H	4.13
13251.500	45.18	---	74.00	28.82	H	5.93
13356.500	---	36.06	54.00	17.94	H	6.61
15211.500	48.23	---	68.20	19.97	H	10.03
15249.500	---	38.44	54.00	15.56	H	10.02
17354.000	49.30	---	68.20	18.90	H	13.08
17354.000	---	40.95	54.00	13.05	H	13.08



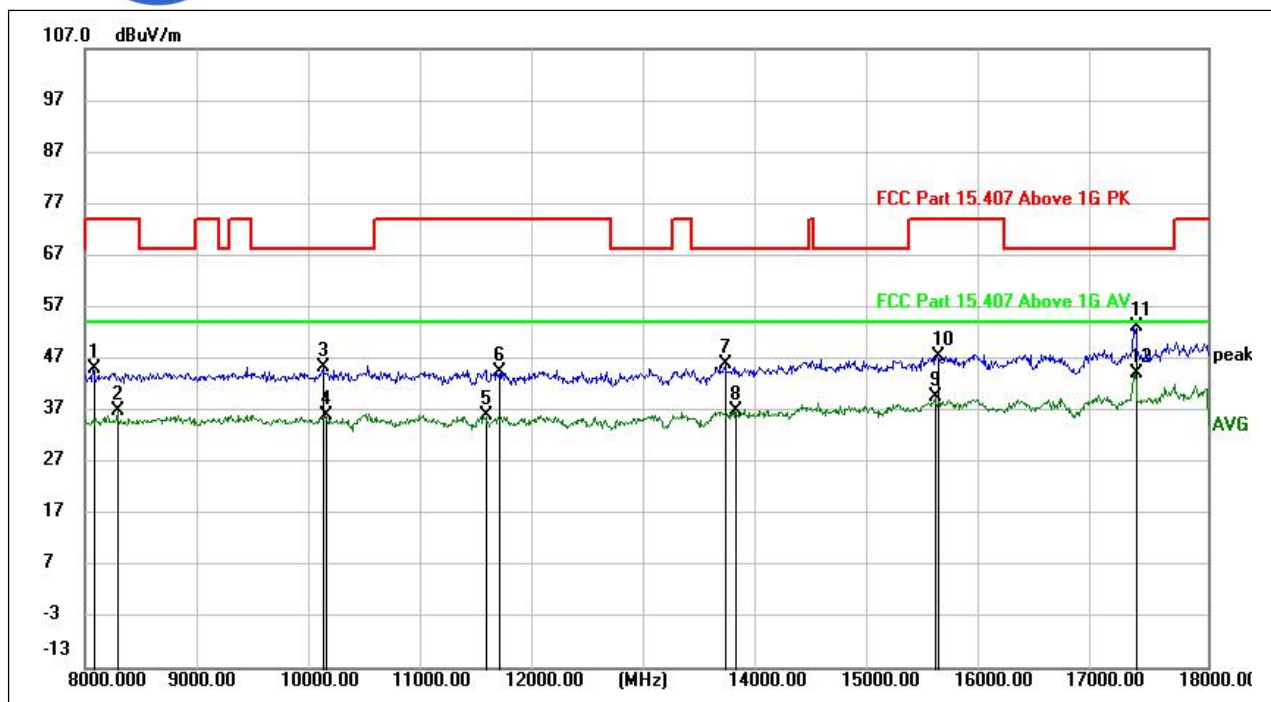
(802.11a _5785MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.0000	29.25	---	29.25	29.25	V	13.90
55.7656	34.11	---	34.11	34.11	V	14.92
97.9184	23.85	---	23.85	23.85	V	13.54
138.1934	18.48	---	18.48	18.48	V	11.57
383.9991	35.69	---	35.69	35.69	V	18.74
738.4943	25.61	---	25.61	25.61	V	25.76



(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)
1250.250	31.84	---	68.20	36.36	V	-17.80
1250.250	---	25.62	54.00	28.38	V	-17.80
2580.600	---	27.80	54.00	26.20	V	-10.88
2666.350	37.81	---	68.20	30.39	V	-9.61
4241.700	42.31	---	74.00	31.69	V	-4.40
4270.750	---	32.78	54.00	21.22	V	-4.30
5378.500	42.18	---	74.00	31.82	V	-2.71
5378.500	---	33.70	54.00	20.30	V	-2.71
6421.850	---	34.68	54.00	19.32	V	-1.65
6498.500	43.16	---	68.20	25.04	V	-1.36
7736.450	41.88	---	74.00	32.12	V	-0.21
7856.500	---	33.79	54.00	20.21	V	0.10

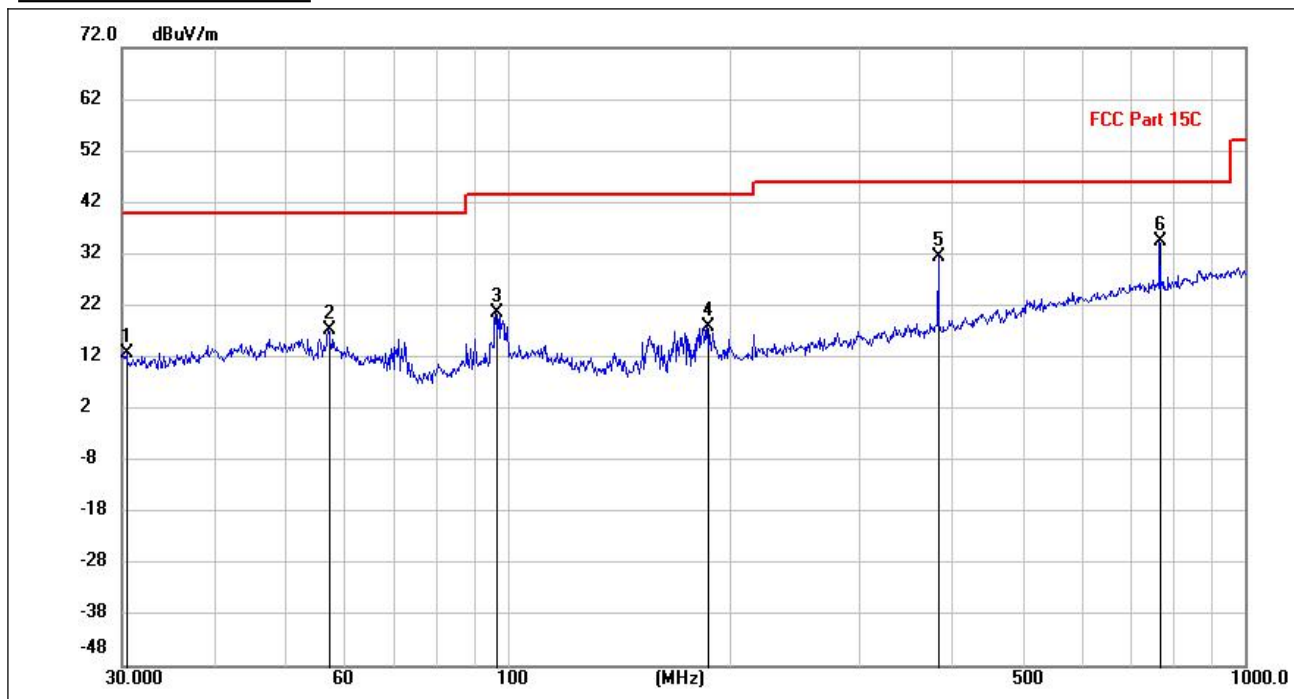


(802.11a _5785MHz, Antenna Vertical, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8086.000	44.89	44.89	74.00	29.11	V	1.16
8296.500	36.93	36.93	54.00	17.07	V	1.52
10130.000	45.23	45.23	68.20	22.97	V	2.65
10149.000	35.93	35.93	54.00	18.07	V	2.70
11568.500	35.99	35.99	54.00	18.01	V	4.24
11681.500	44.44	44.44	74.00	29.56	V	3.82
13705.000	45.83	45.83	68.20	22.37	V	7.24
13791.500	36.79	36.79	54.00	17.21	V	7.19
15576.000	39.58	39.58	54.00	14.42	V	10.47
15596.000	47.53	47.53	74.00	26.47	V	10.31
17354.000	53.25	53.25	68.20	14.95	V	13.08
17357.500	44.07	44.07	54.00	9.93	V	13.09

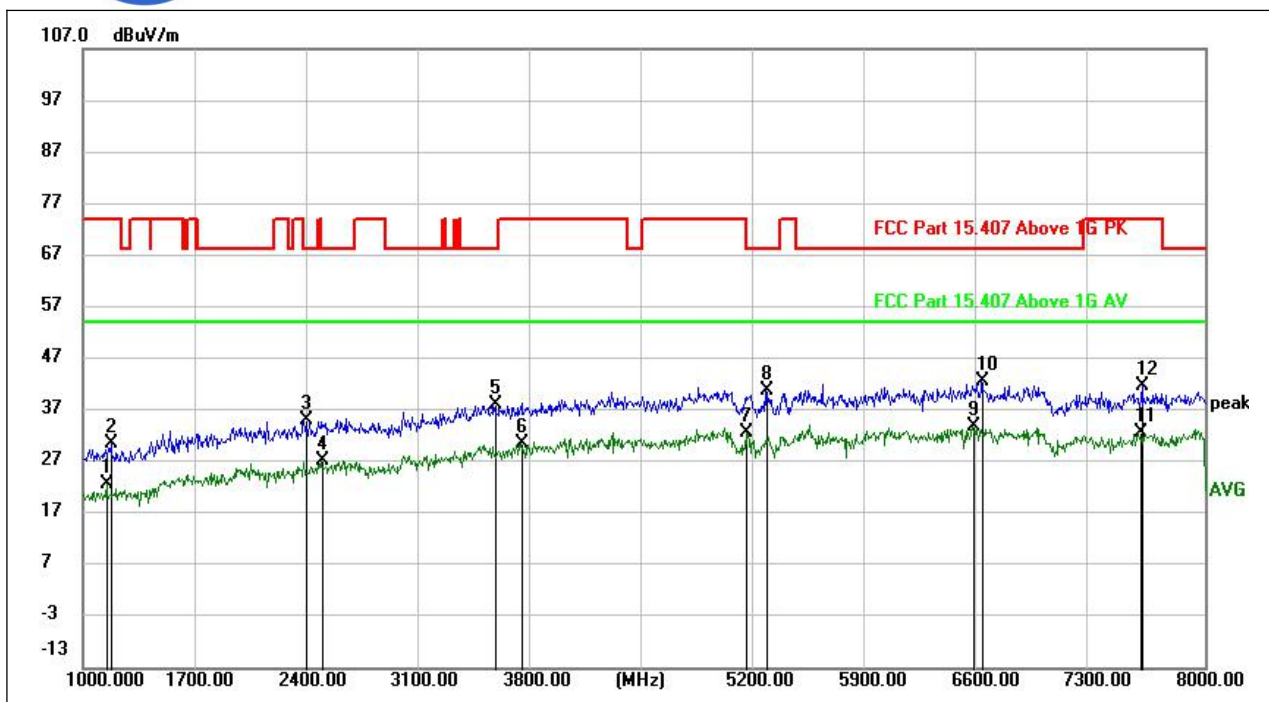


Plot for Channel = 165



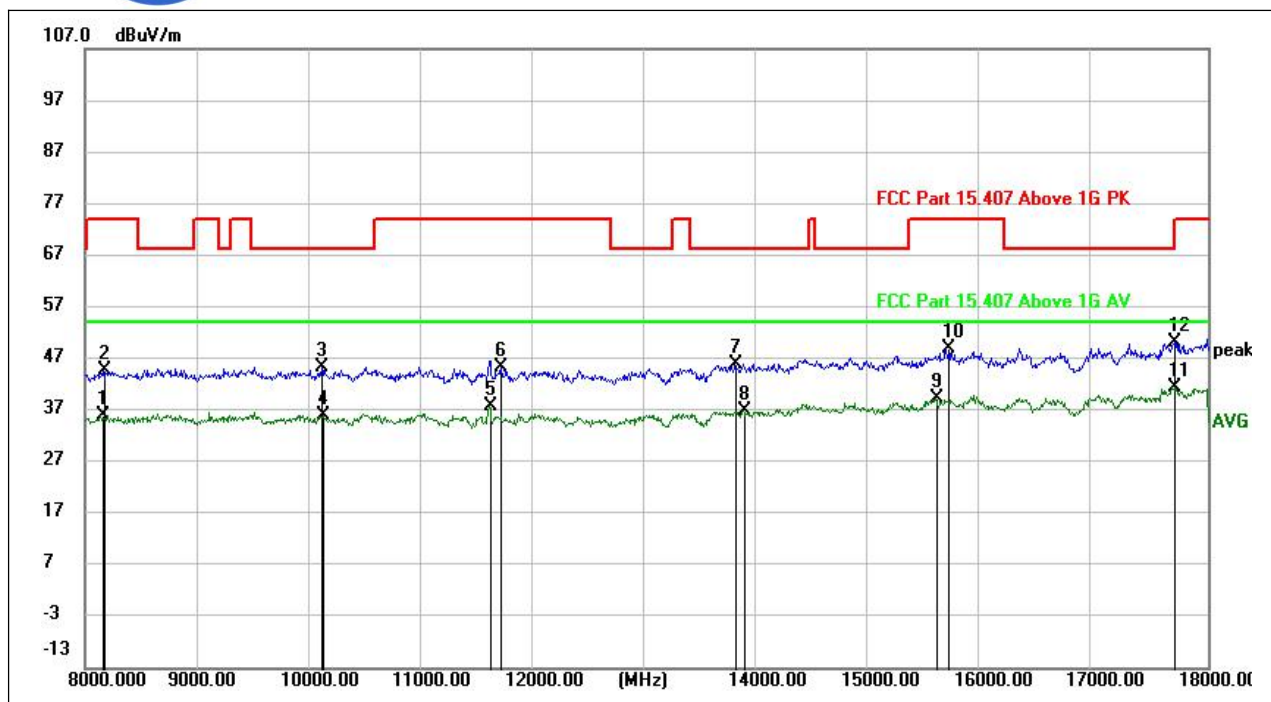
(802.11a _5825MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.4665	12.77	---	40.00	27.23	H	13.06
57.2215	17.41	---	40.00	22.59	H	14.50
96.5207	20.57	---	43.50	22.93	H	13.31
186.7025	18.00	---	43.50	25.50	H	12.66
383.9991	31.49	---	46.00	14.51	H	18.74
768.0745	34.53	---	46.00	11.47	H	26.18



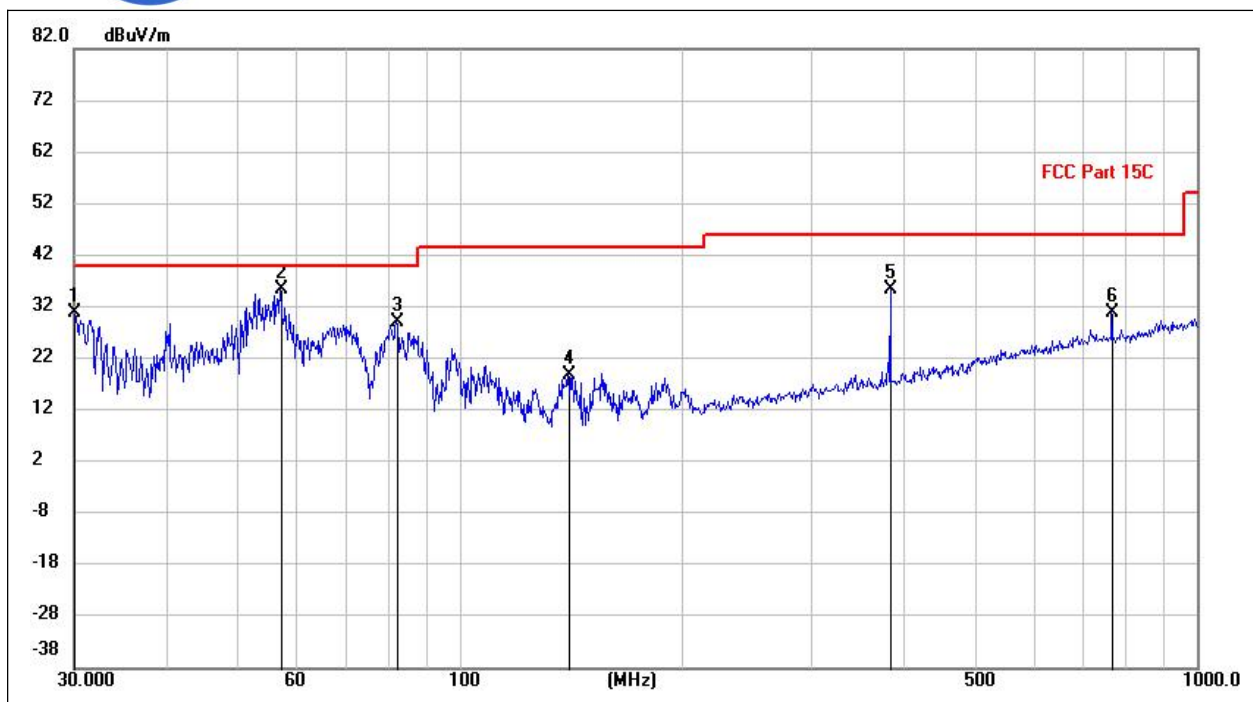
(802.11a _5825MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
1149.100	---	22.81	54.00	31.19	H	-17.68
1178.850	30.57	---	74.00	43.43	H	-17.79
2387.750	35.24	---	74.00	38.76	H	-11.12
2492.050	---	27.13	54.00	26.87	H	-10.76
3570.400	38.22	---	68.20	29.98	H	-6.65
3737.000	---	30.67	54.00	23.33	H	-5.80
5142.950	---	32.62	54.00	21.38	H	-2.92
5263.700	40.73	---	68.20	27.47	H	-2.97
6554.500	---	33.85	54.00	20.15	H	-1.71
6612.250	42.60	---	68.20	25.60	H	-1.03
7595.050	---	32.58	54.00	21.42	H	-0.17
7615.000	41.80	---	74.00	32.20	H	-0.03



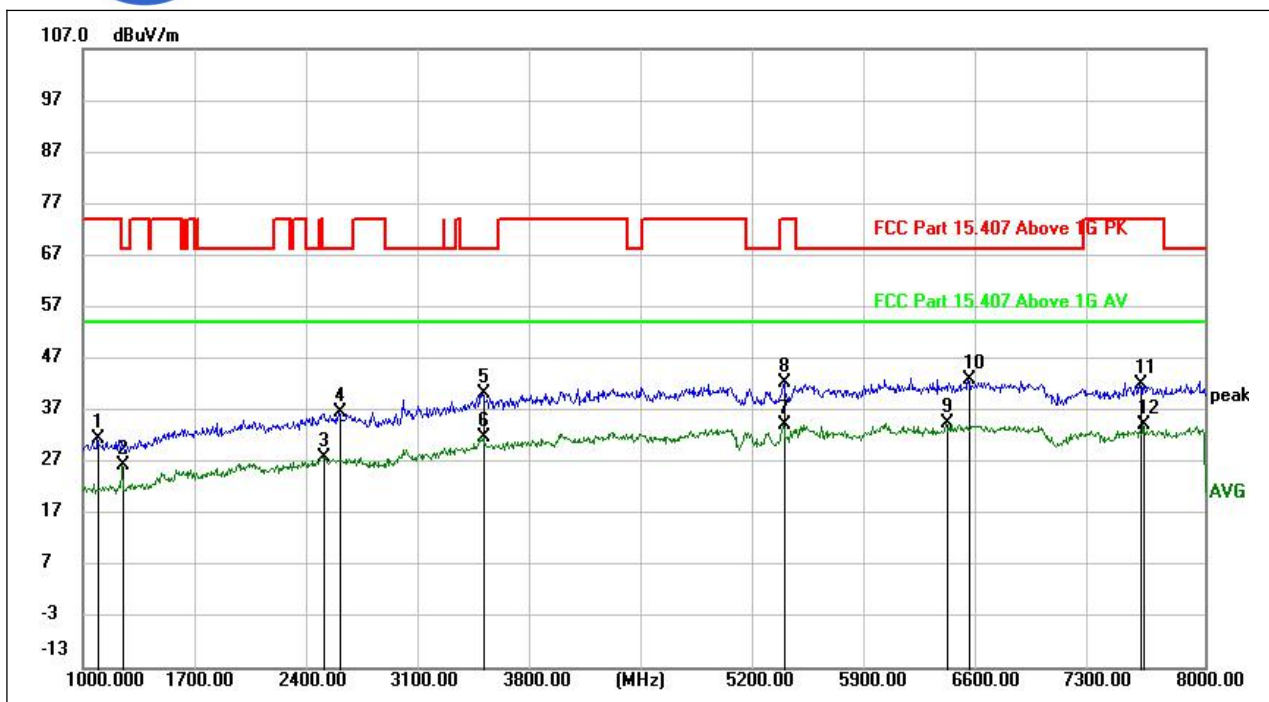
(802.11a _5825MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8151.500	---	36.04	54.00	17.96	H	1.55
8170.000	44.65	---	74.00	29.35	H	1.58
10110.000	45.28	---	68.20	22.92	H	2.28
10128.000	---	35.99	54.00	18.01	H	2.39
11610.500	---	37.89	54.00	16.11	H	3.75
11703.500	45.26	---	74.00	28.74	H	3.96
13794.000	45.91	---	68.20	22.29	H	7.20
13870.000	---	36.80	54.00	17.20	H	7.67
15582.500	---	39.23	54.00	14.77	H	10.57
15681.000	48.87	---	74.00	25.13	H	11.23
17694.500	---	41.34	54.00	12.66	H	14.32
17707.500	50.15	---	74.00	23.85	H	14.44



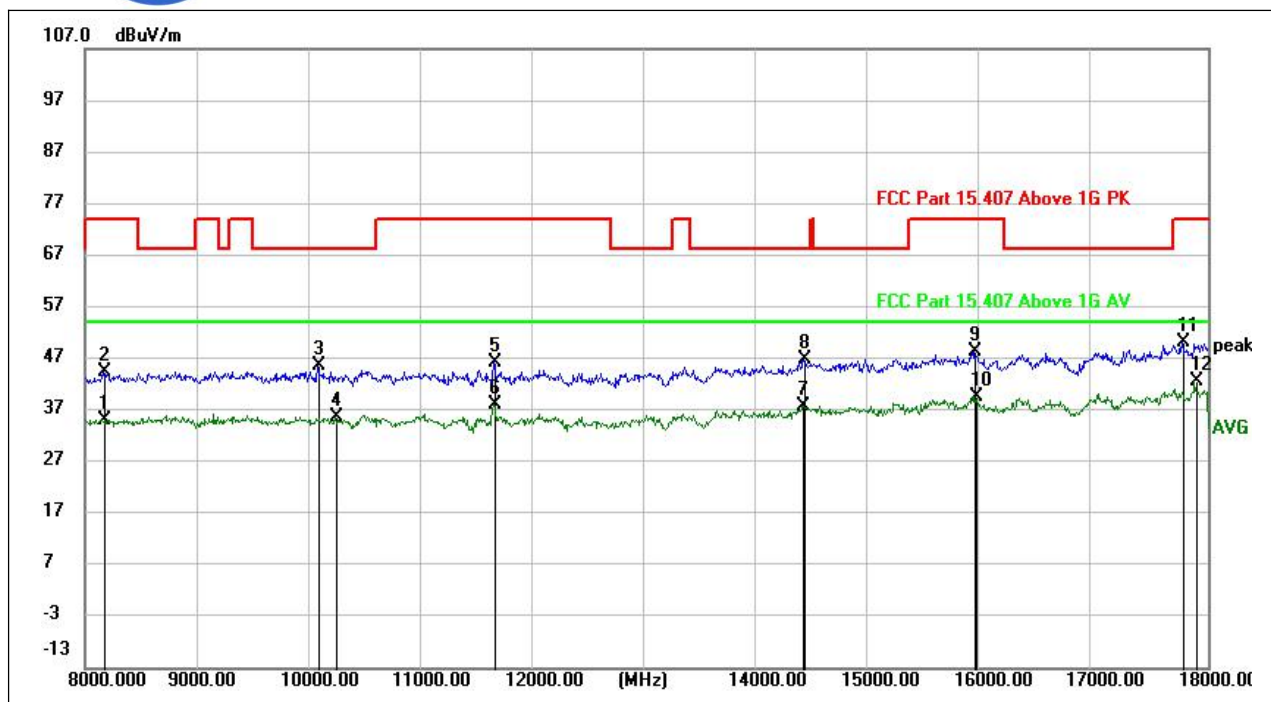
(802.11a _5825MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.0000	30.93	---	40.00	9.07	V	13.90
57.2817	35.41	---	40.00	4.59	V	14.48
82.1281	29.14	---	40.00	10.86	V	9.96
140.5637	18.82	---	43.50	24.68	V	11.88
383.9991	35.32	---	46.00	10.68	V	18.74
768.0745	31.02	---	46.00	14.98	V	26.18



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

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1094.500	31.45	---	74.00	42.55	V	-17.67
1249.900	---	26.20	54.00	27.80	V	-17.80
2501.500	---	27.98	54.00	26.02	V	-9.56
2599.500	36.68	---	68.20	31.52	V	-10.52
3498.650	40.36	---	68.20	27.84	V	-5.21
3506.000	---	31.91	54.00	22.09	V	-5.42
5370.800	---	34.24	54.00	19.76	V	-2.72
5380.950	42.30	---	74.00	31.70	V	-2.70
6391.750	---	34.40	54.00	19.60	V	-1.85
6525.450	42.96	---	68.20	25.24	V	-1.41
7599.250	41.90	---	74.00	32.10	V	-0.17
7620.950	---	34.04	54.00	19.96	V	0.02



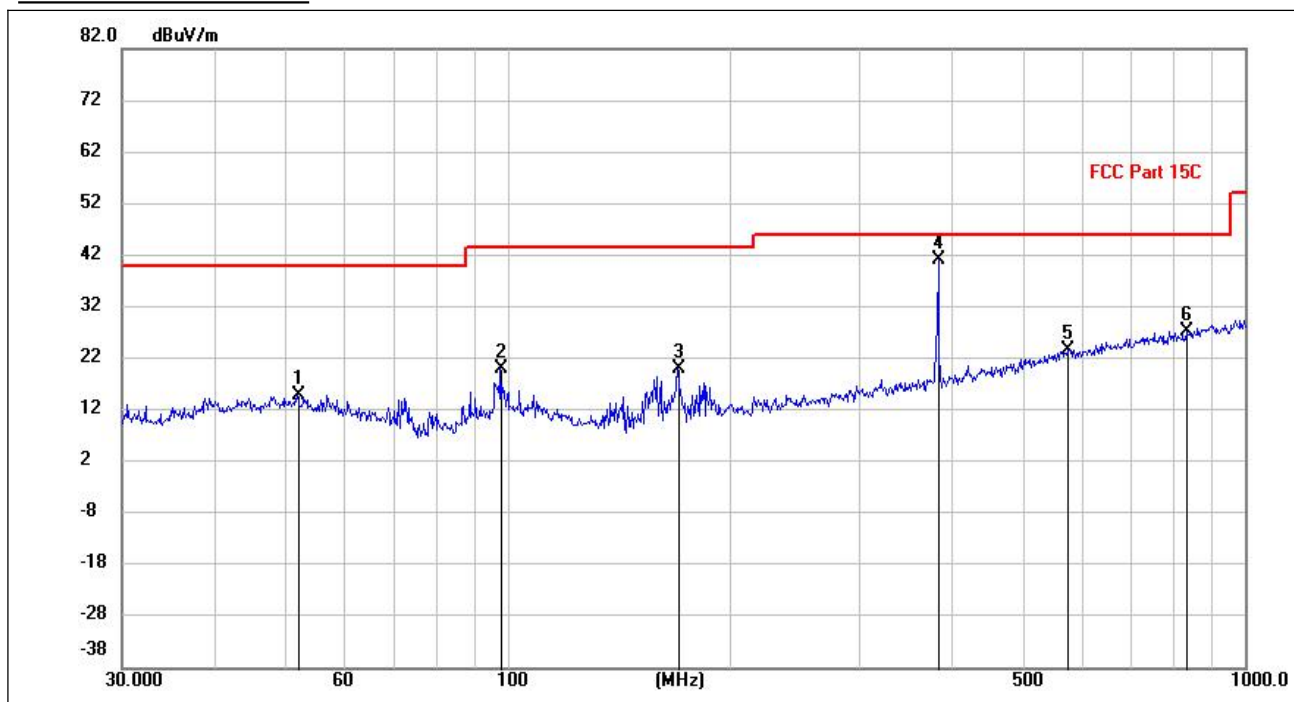
(802.11a _58MHz, Antenna Vertical, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8163.000	---	35.19	54.00	18.81	V	1.57
8169.500	44.33	---	74.00	29.67	V	1.58
10078.000	45.58	---	68.20	22.62	V	2.19
10237.000	---	35.63	54.00	18.37	V	2.23
11648.000	46.13	---	74.00	27.87	V	3.55
11648.000	3---	38.21	54.00	15.79	V	3.55
14397.500	---	37.82	54.00	16.18	V	8.99
14402.000	46.73	---	68.20	21.47	V	8.96
15923.500	48.46	---	74.00	25.54	V	11.28
15931.500	---	39.57	54.00	14.43	V	11.34
17778.000	50.07	---	74.00	23.93	V	14.60
17894.000	---	42.50	54.00	11.50	V	15.14



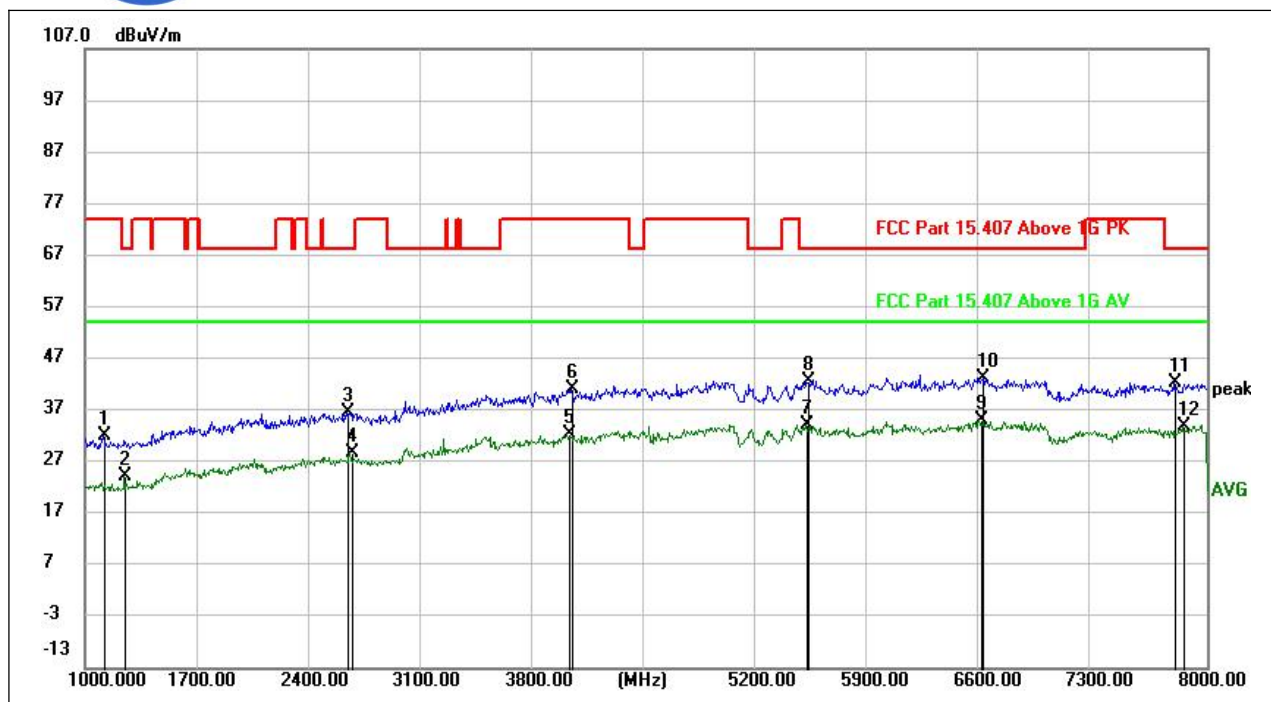
802.11n (HT20) Test mode

Plots for Channel = 36



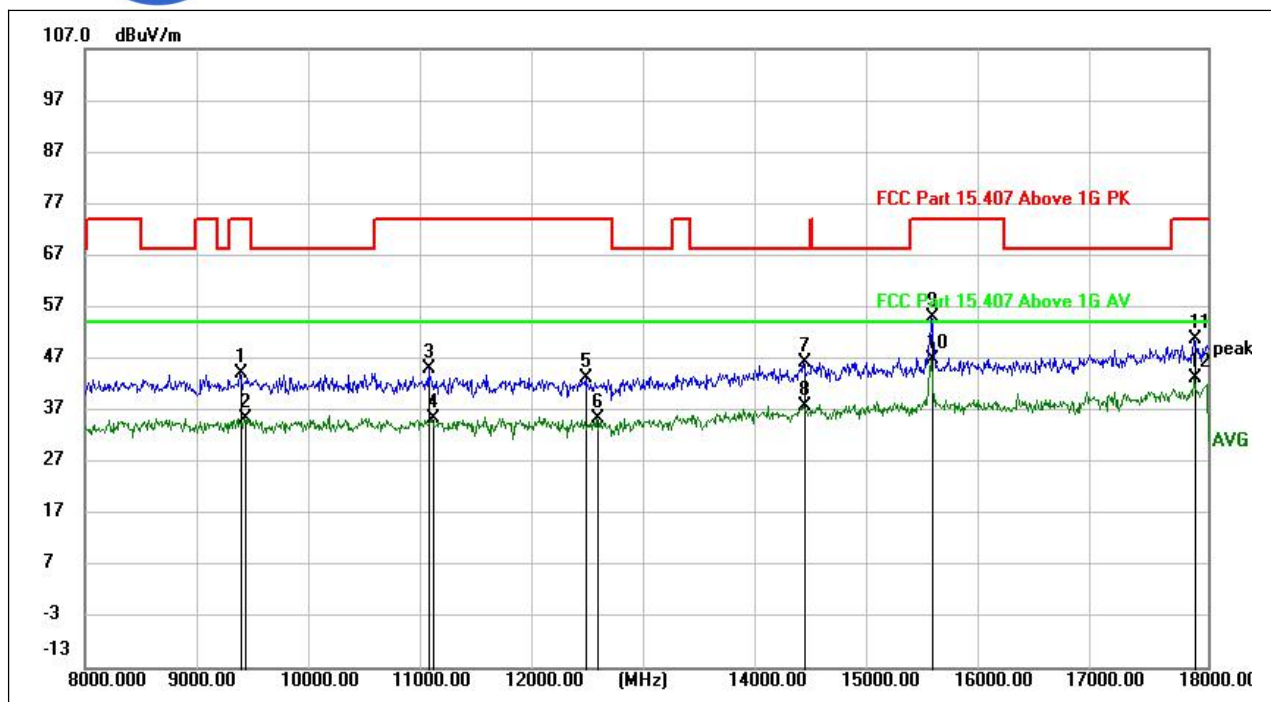
(802.11n _5180MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
51.9340	14.80	---	40.00	25.20	H	15.47
98.0559	20.09	---	43.50	23.41	H	13.60
170.5532	20.03	---	43.50	23.47	H	12.34
383.9991	41.27	---	46.00	4.73	H	18.74
576.3411	23.77	---	46.00	22.23	H	23.01
836.0977	27.41	---	46.00	18.59	H	26.65



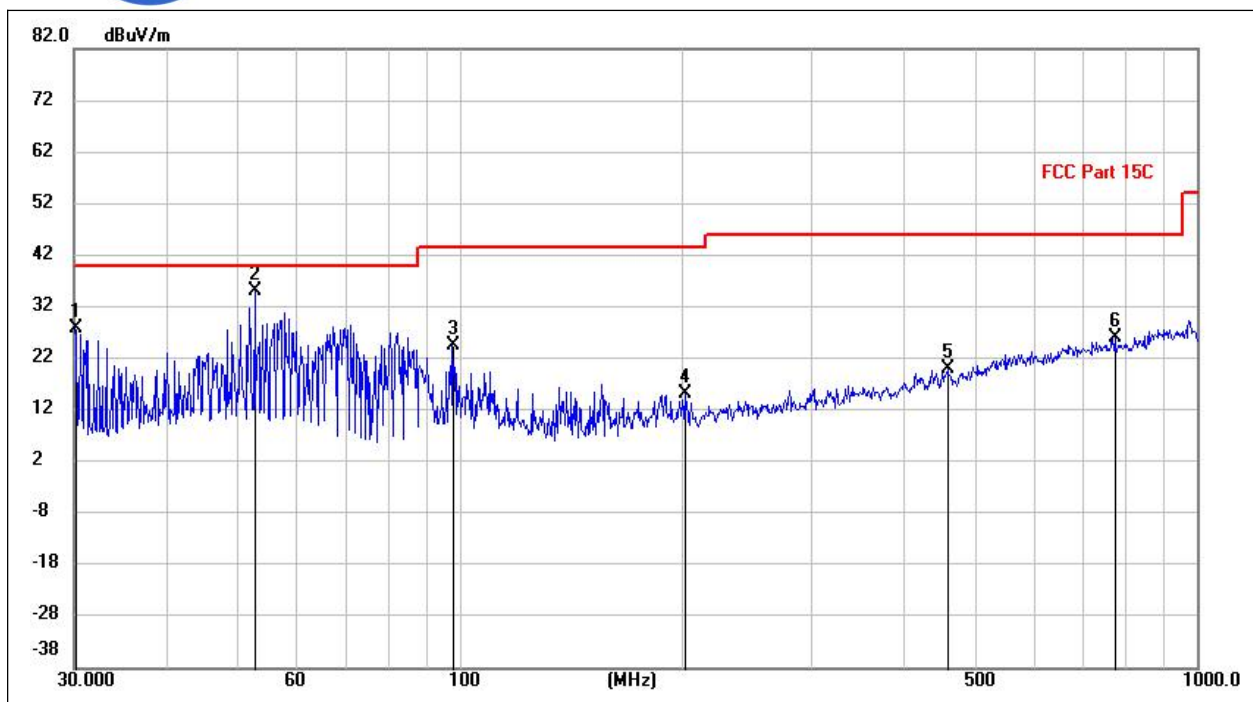
(802.11n_5180MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1118.650	31.95	---	74.00	42.05	H	-17.61
1249.900	---	24.32	54.00	29.68	H	-17.80
2639.050	36.56	---	68.20	31.64	H	-9.64
2663.900	---	28.61	54.00	25.39	H	-9.63
4022.250	---	32.44	54.00	21.56	H	-5.65
4033.100	41.27	---	74.00	32.73	H	-5.31
5505.900	---	34.15	54.00	19.85	H	-3.16
5512.200	42.65	---	68.20	25.55	H	-3.05
6586.350	---	35.11	54.00	18.89	H	-0.98
6604.200	43.15	---	68.20	25.05	H	-0.94
7798.050	42.43	---	68.20	25.77	H	-0.11
7856.850	33.99	---	54.00	20.01	H	0.04



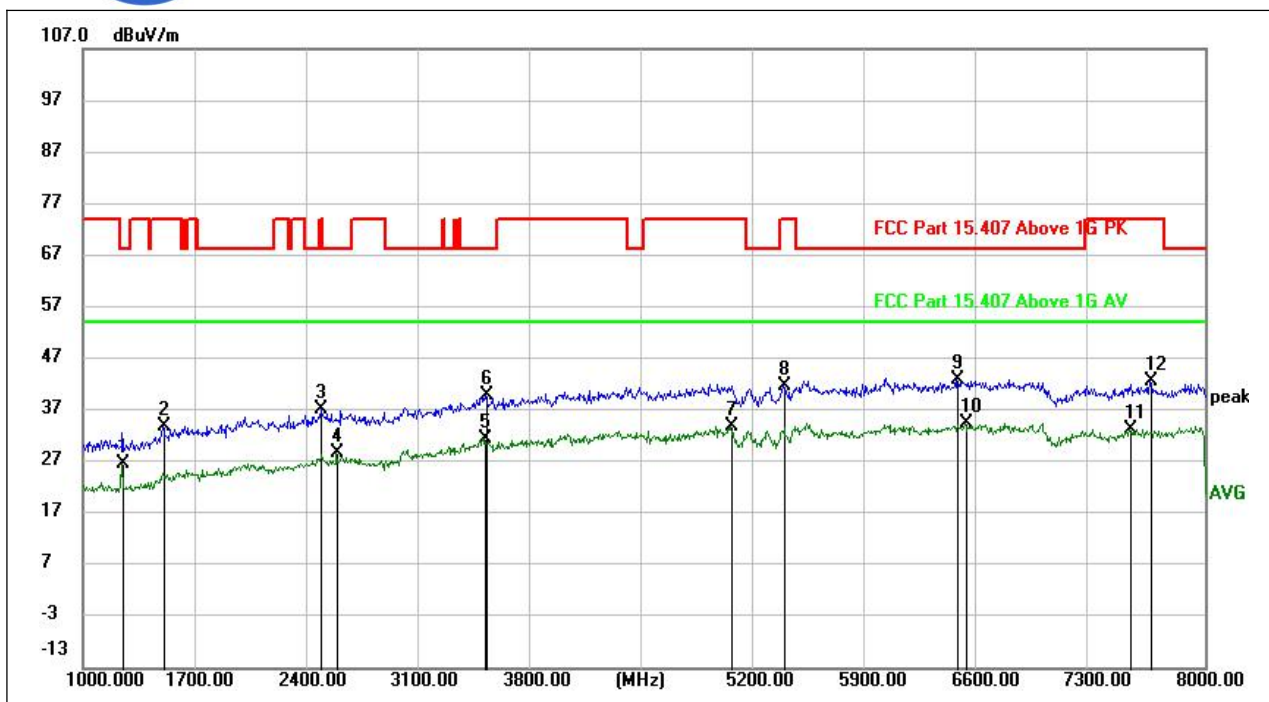
(802.11n_5180MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
9383.000	44.23	---	74.00	29.77	H	2.07
9420.500	---	35.54	54.00	18.46	H	2.03
11069.500	45.06	---	74.00	28.94	H	3.68
11092.000	---	35.28	54.00	18.72	H	3.78
12466.500	43.30	---	74.00	30.70	H	5.01
12563.500	---	35.29	54.00	18.71	H	4.74
14409.000	46.17	---	68.20	22.03	H	8.86
14409.000	---	37.79	54.00	16.21	H	8.86
15547.000	54.93	---	74.00	19.07	H	11.14
15547.000	---	46.93	54.00	7.07	H	11.14
17888.500	50.78	---	74.00	23.22	H	15.27
17888.500	---	43.30	54.00	10.70	H	15.27



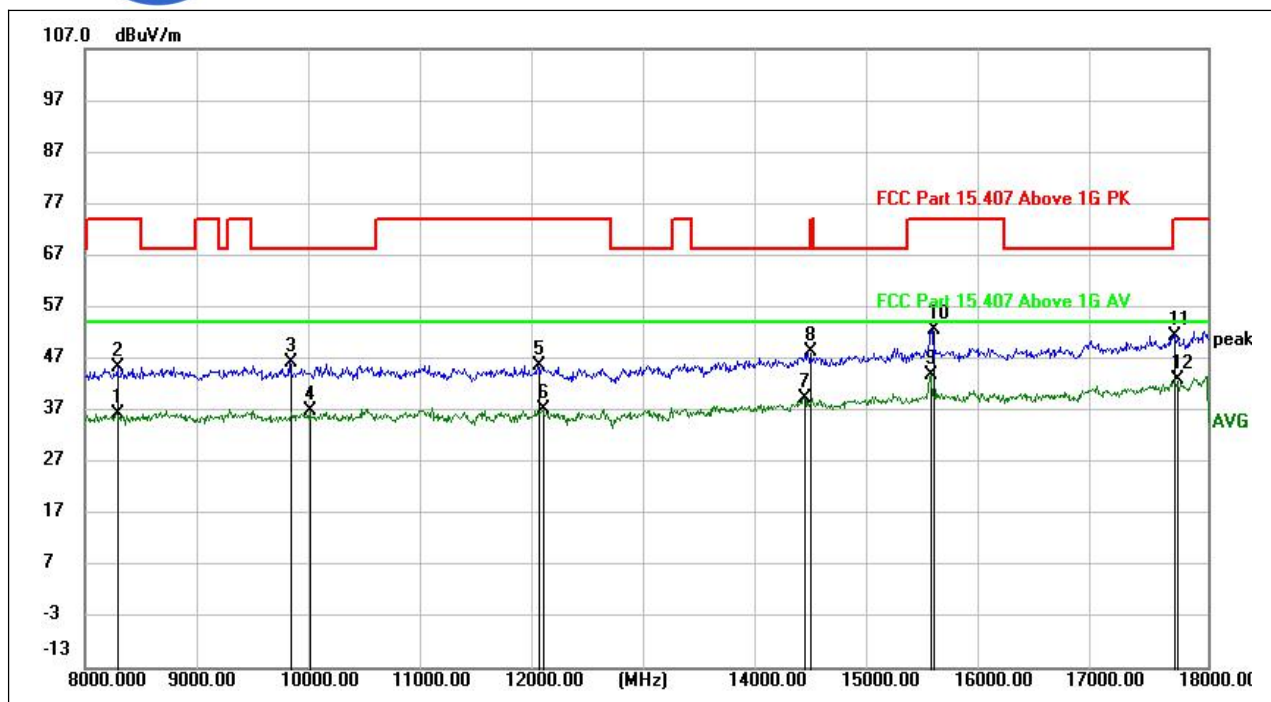
(802.11n _5180MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.1318	27.88	---	40.00	12.12	V	13.66
52.8989	35.10	---	40.00	4.90	V	15.36
97.8498	24.66	---	43.50	18.84	V	13.52
202.3841	15.09	---	43.50	28.41	V	13.92
459.2754	20.00	---	46.00	26.00	V	21.06
775.1091	26.08	---	46.00	19.92	V	26.07



(802.11n_5180MHz, Antenna Vertical, 1GHz to 8GHz)

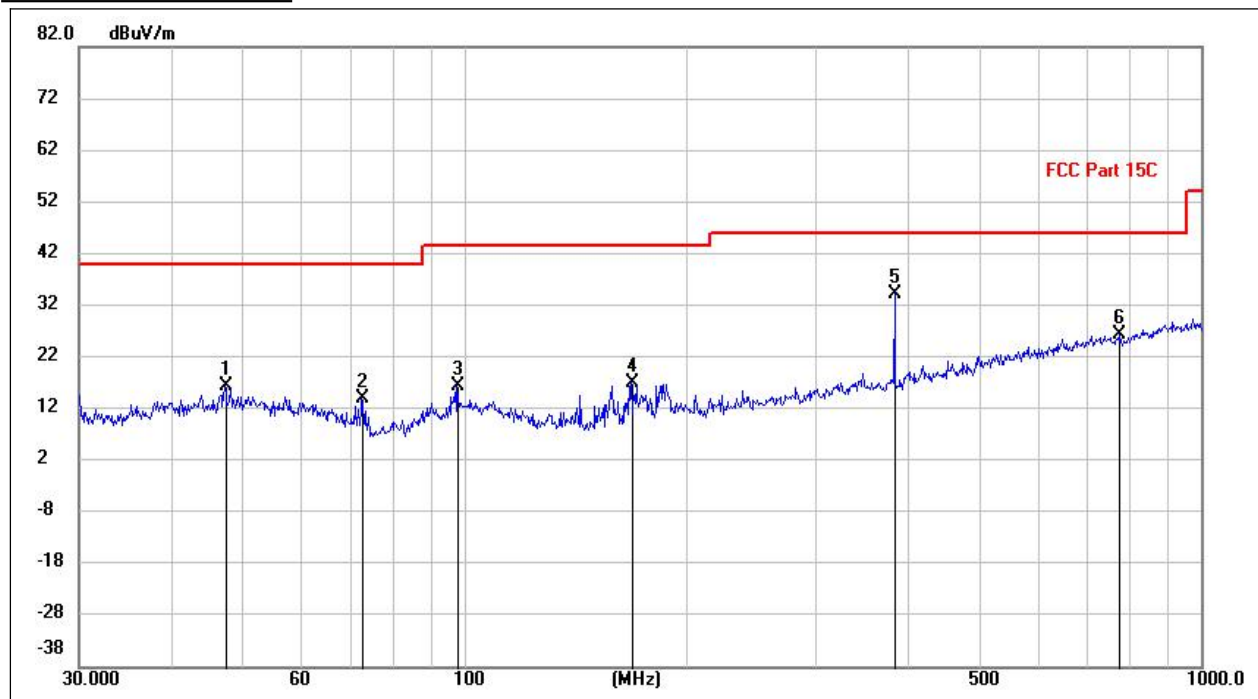
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
1249.900	---	26.64	54.00	27.36	V	-17.80
1502.250	33.81	---	74.00	40.19	V	-14.22
2488.200	37.15	---	74.00	36.85	V	-10.60
2585.500	---	28.62	54.00	25.38	V	-10.78
3507.750	---	31.54	54.00	22.46	V	-5.47
3519.300	40.04	---	68.20	28.16	V	-5.84
5048.450	---	33.95	54.00	20.05	V	-2.72
5375.000	41.65	---	74.00	32.35	V	-2.72
6453.700	42.84	---	68.20	25.36	V	-1.52
6511.450	---	34.38	54.00	19.62	V	-1.38
7535.200	---	33.42	54.00	20.58	V	-0.08
7661.550	42.54	---	74.00	31.46	V	0.31



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

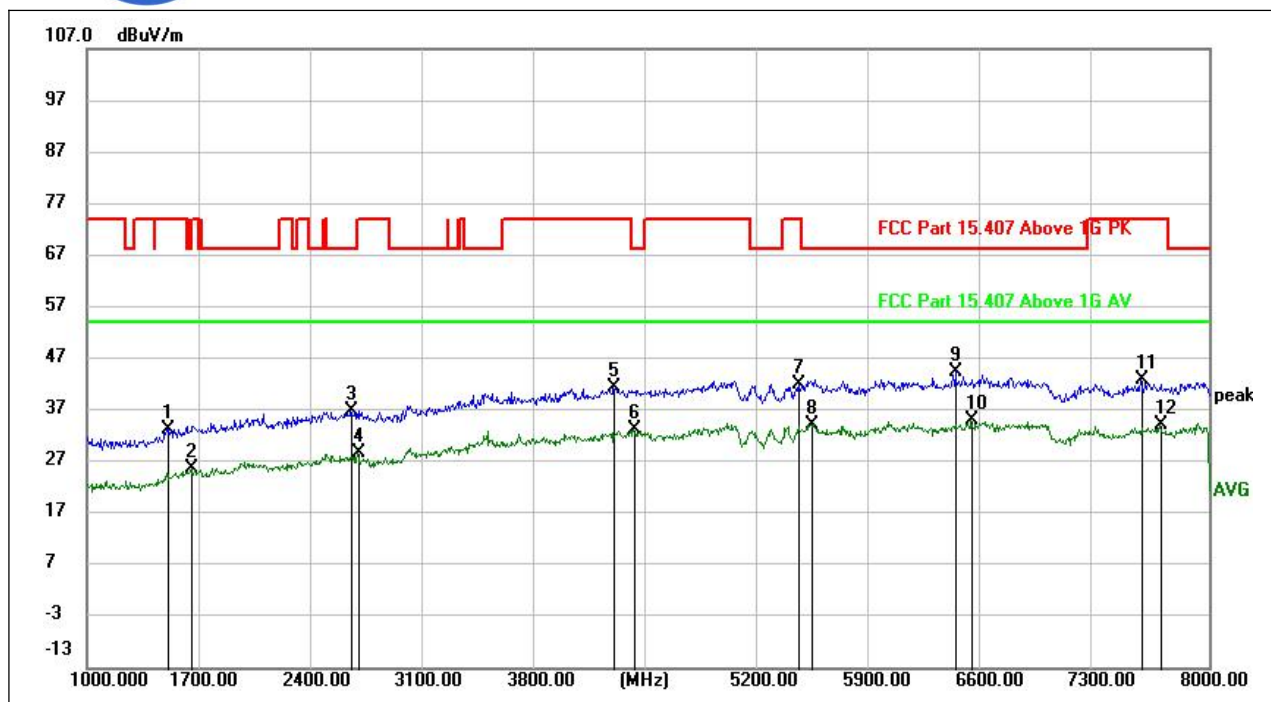
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB/m)
8287.500	---	36.41	54.00	17.59	V	1.46
8292.000	45.48	---	74.00	28.52	V	1.49
9831.000	46.27	---	68.20	21.93	V	2.14
10002.000	---	36.91	54.00	17.09	V	2.99
12039.500	45.70	---	74.00	28.30	V	5.03
12084.500	---	37.13	54.00	16.87	V	4.64
14403.500	---	39.33	54.00	14.67	V	8.98
14454.000	48.44	---	68.20	19.76	V	8.97
15538.500	---	43.74	54.00	10.26	V	10.67
15558.500	52.44	---	74.00	21.56	V	10.61
17709.500	51.52	---	74.00	22.48	V	14.46
17723.000	---	42.96	54.00	11.04	V	14.59

Plots for Channel = 44



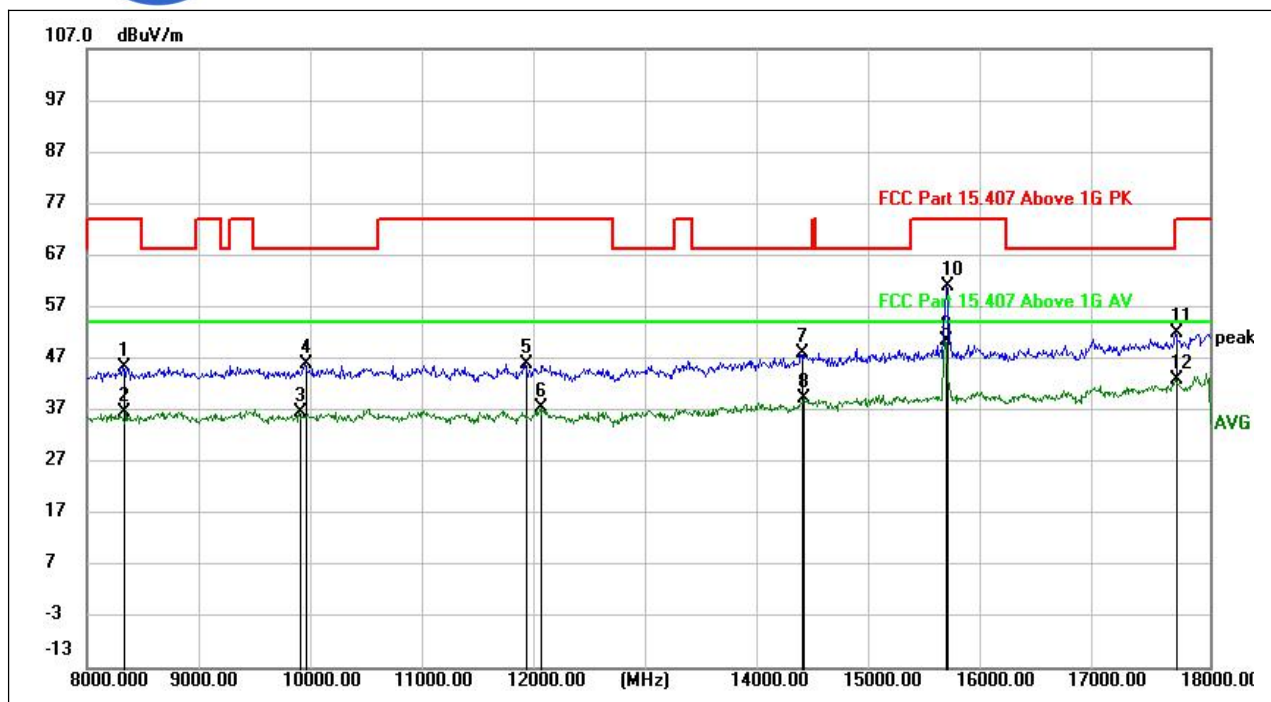
(802.11n _5220MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
47.3587	16.38	---	40.00	23.62	H	15.49
72.7701	14.03	---	40.00	25.97	H	10.37
98.0731	16.29	---	43.50	27.21	H	13.61
168.4433	16.88	---	43.50	26.62	H	12.07
383.9991	34.09	---	46.00	11.91	H	18.74
776.4693	26.45	---	46.00	19.55	H	26.05



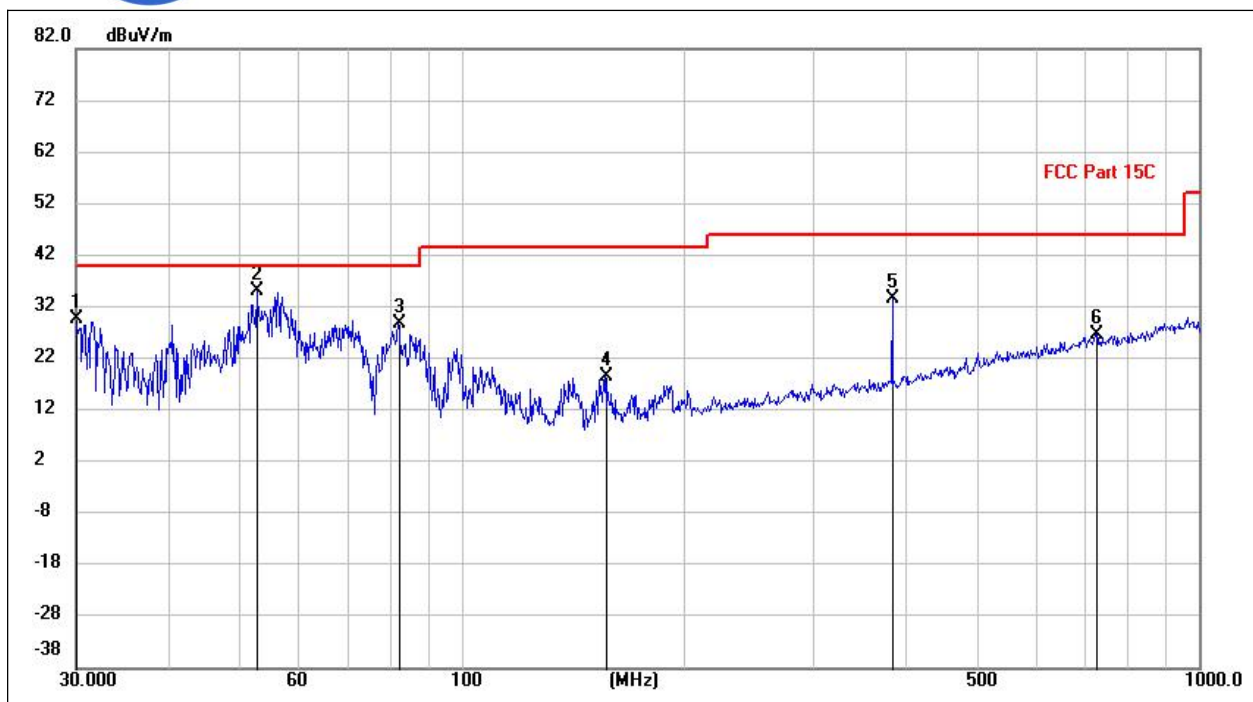
(802.11n_5220MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
1501.200	33.37	---	74.00	40.63	H	-15.57
1656.250	---	25.63	54.00	28.37	H	-14.65
2650.600	37.02	---	68.20	31.18	H	-9.51
2692.250	---	28.61	54.00	25.39	H	-9.78
4285.450	41.41	---	74.00	32.59	H	-4.05
4411.450	---	33.36	54.00	20.64	H	-4.22
5440.450	41.99	---	74.00	32.01	H	-2.60
5523.750	---	34.33	54.00	19.67	H	-2.84
6423.950	44.29	---	68.20	23.91	H	-1.93
6519.850	---	35.20	54.00	18.80	H	-2.36
7581.400	42.82	---	74.00	31.18	H	-0.12
7699.000	---	34.05	54.00	19.95	H	-0.04



(802.11n_5220MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
8323.500	45.33	---	74.00	28.67	H	1.50
8323.500	---	36.73	54.00	17.27	H	1.50
9896.500	---	36.55	54.00	17.45	H	2.21
9953.500	45.90	---	68.20	22.30	H	2.27
11914.500	45.94	---	74.00	28.06	H	3.83
12045.500	---	37.51	54.00	16.49	H	4.53
14361.000	47.91	---	68.20	20.29	H	9.10
14385.000	---	39.37	54.00	14.63	H	9.05
15658.500	---	50.59	54.00	3.41	H	11.10
15667.000	61.00	---	74.00	13.00	H	11.25
17705.000	51.97	---	74.00	22.03	H	14.42
17705.000	---	43.05	54.00	10.95	H	14.42



(802.11n _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	29.71	---	40.00	10.29	V	13.90
52.9082	35.18	---	40.00	4.82	V	15.36
82.1858	28.64	---	40.00	11.36	V	9.98
156.5126	18.53	---	43.50	24.97	V	11.09
383.9991	33.71	---	46.00	12.29	V	18.74
724.8963	26.74	---	46.00	19.26	V	25.12