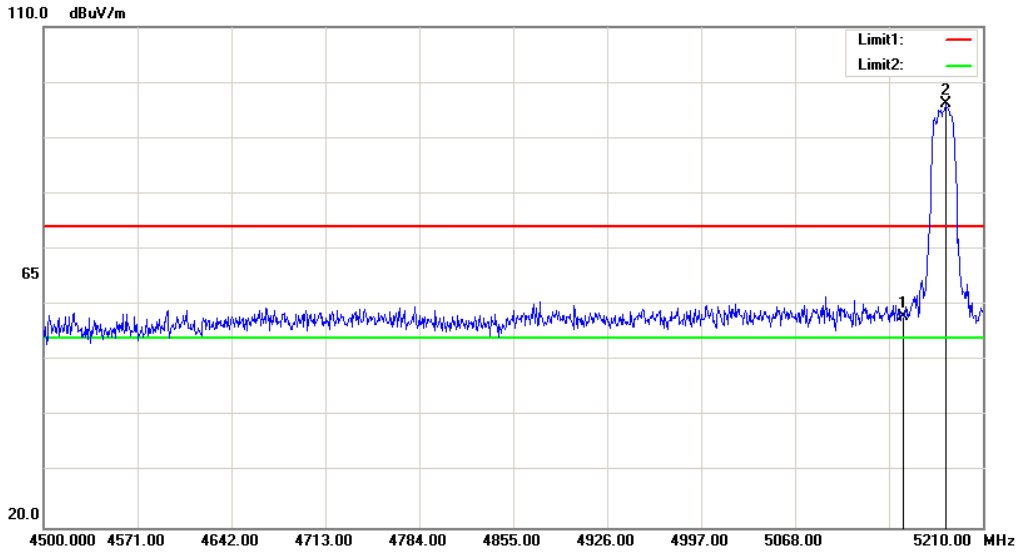
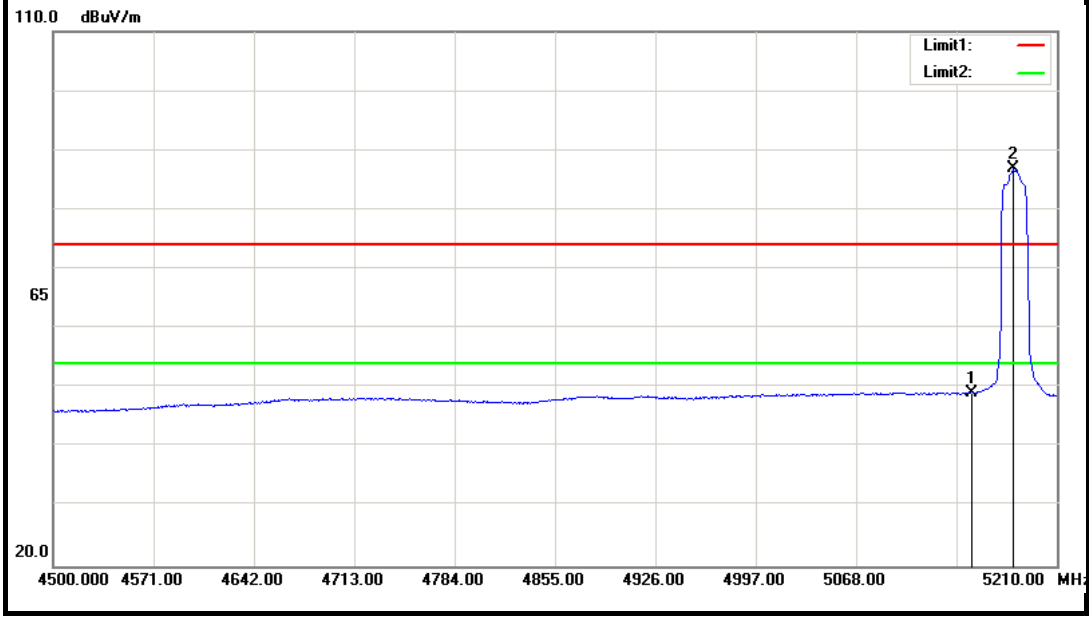
Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	52.71	5.25	57.96	74.00	-16.04	Peak	Horizontal
2	5181.600	90.97	5.30	96.27	---	---	Peak	Horizontal
1	5150.000	43.92	5.25	49.17	54.00	-4.83	Average	Horizontal
2	5179.470	81.64	5.30	86.94	---	---	Average	Horizontal

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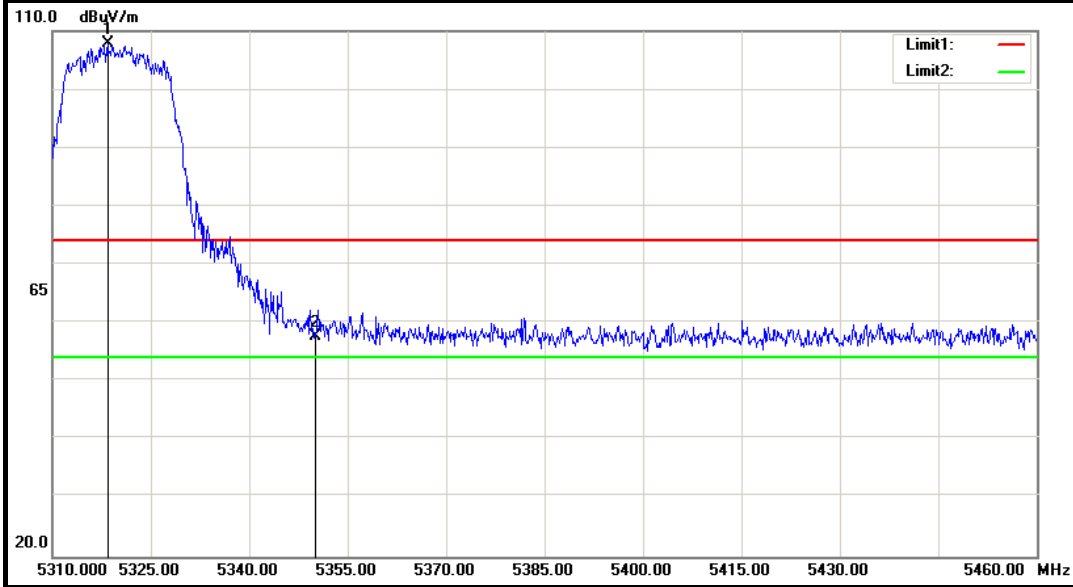
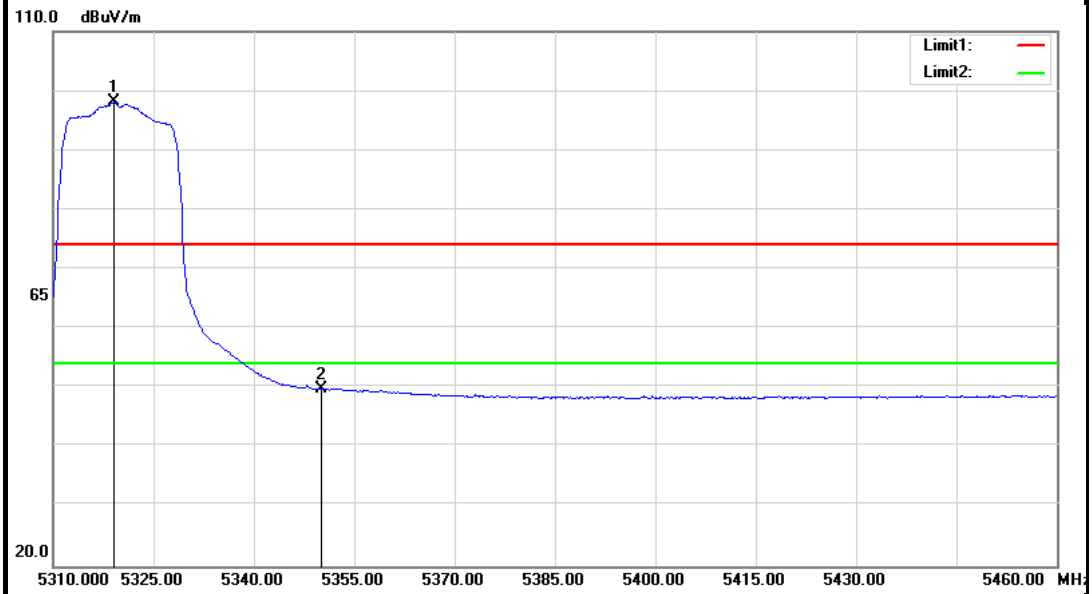
IEEE 802.11a mode / 5320MHz

Detector mode: Peak **Polarity: Vertical**



Detector mode: Average **Polarity: Vertical**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5318.400	102.22	5.55	107.77	---	---	Peak	Vertical
2	5350.000	52.18	5.60	57.78	74.00	-16.22	Peak	Vertical
1	5319.000	92.64	5.55	98.19	---	---	Average	Vertical
2	5350.000	44.24	5.60	49.84	54.00	-4.16	Average	Vertical

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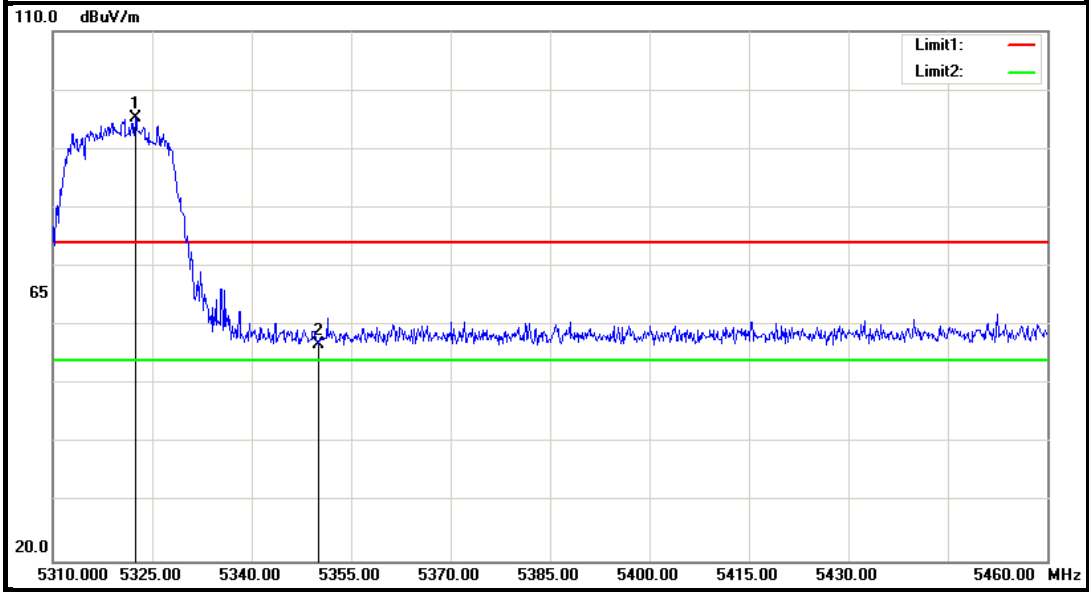
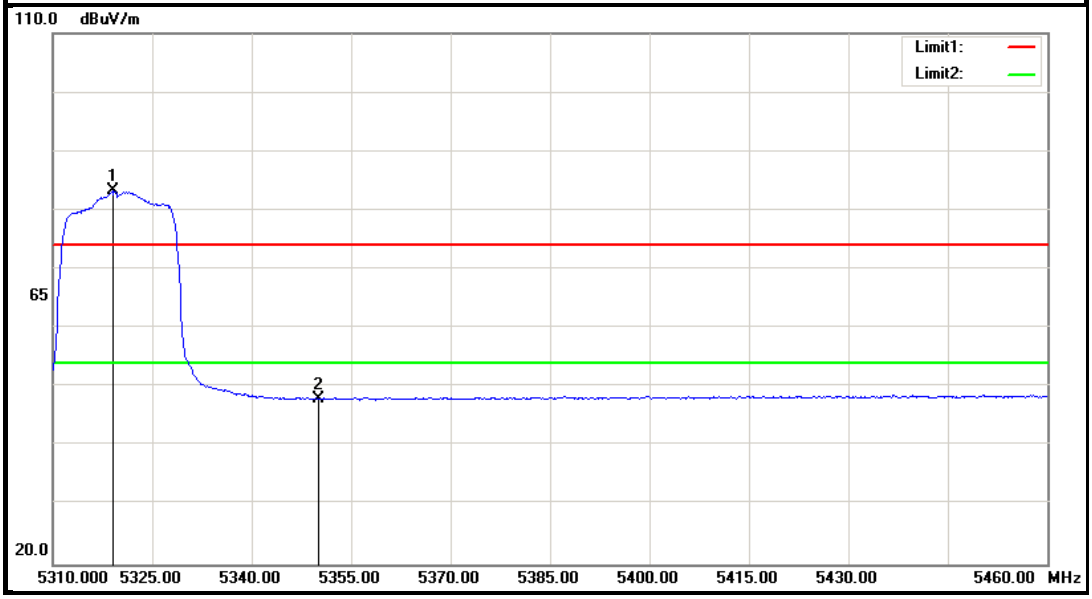
Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5322.450	89.65	5.55	95.20	---	---	Peak	Horizontal
2	5350.000	51.24	5.60	56.84	74.00	-17.16	Peak	Horizontal
1	5319.000	77.70	5.55	83.25	---	---	Average	Horizontal
2	5350.000	42.37	5.60	47.97	54.00	-6.03	Average	Horizontal

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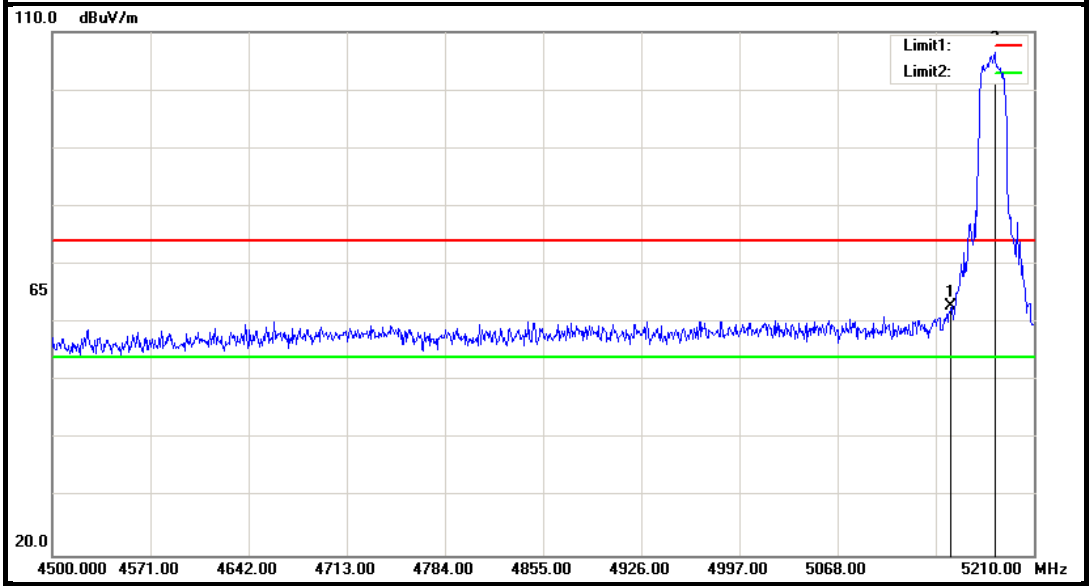
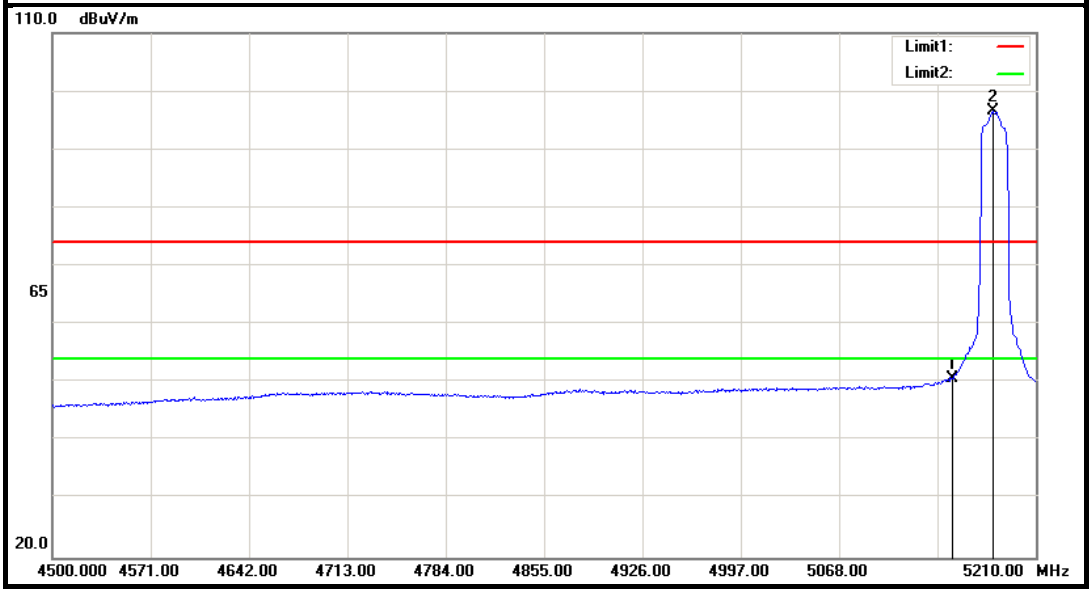
IEEE 802.11n HT 20 MHz mode / 5180 MHz

Detector mode: Peak **Polarity: Vertical**



Detector mode: Average **Polarity: Vertical**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	57.55	5.25	62.80	74.00	-11.20	Peak	Vertical
2	5181.600	101.15	5.30	106.45	---	---	Peak	Vertical
1	5150.000	45.55	5.25	50.80	54.00	-3.20	Average	Vertical
2	5178.760	91.21	5.30	96.51	---	---	Average	Vertical

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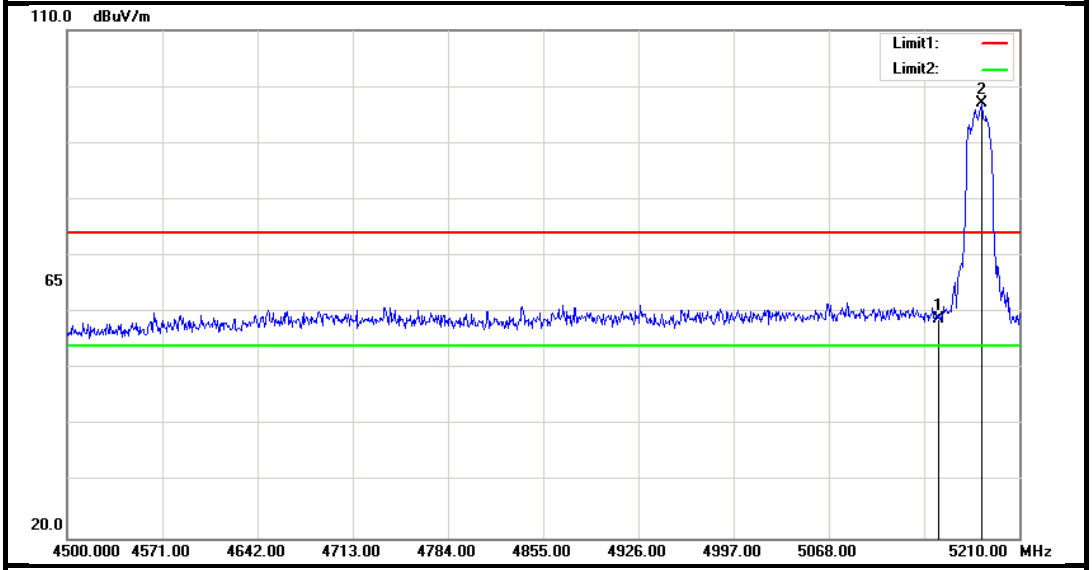
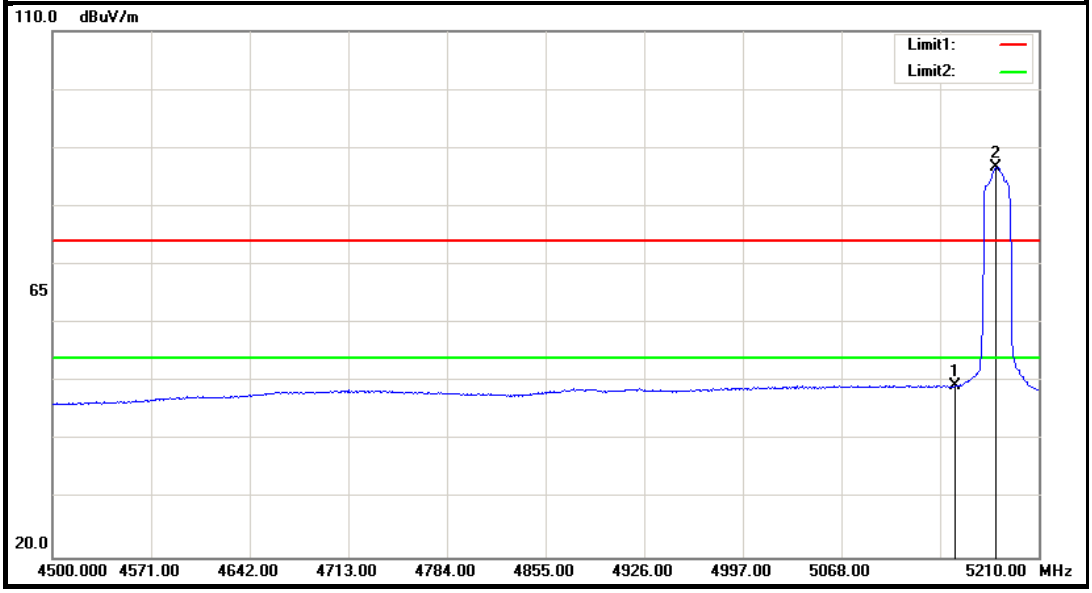
Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	53.45	5.25	58.70	74.00	-15.30	Peak	Horizontal
2	5182.310	91.67	5.30	96.97	---	---	Peak	Horizontal
1	5150.000	44.20	5.25	49.45	54.00	-4.55	Average	Horizontal
2	5179.470	81.46	5.30	86.76	---	---	Average	Horizontal

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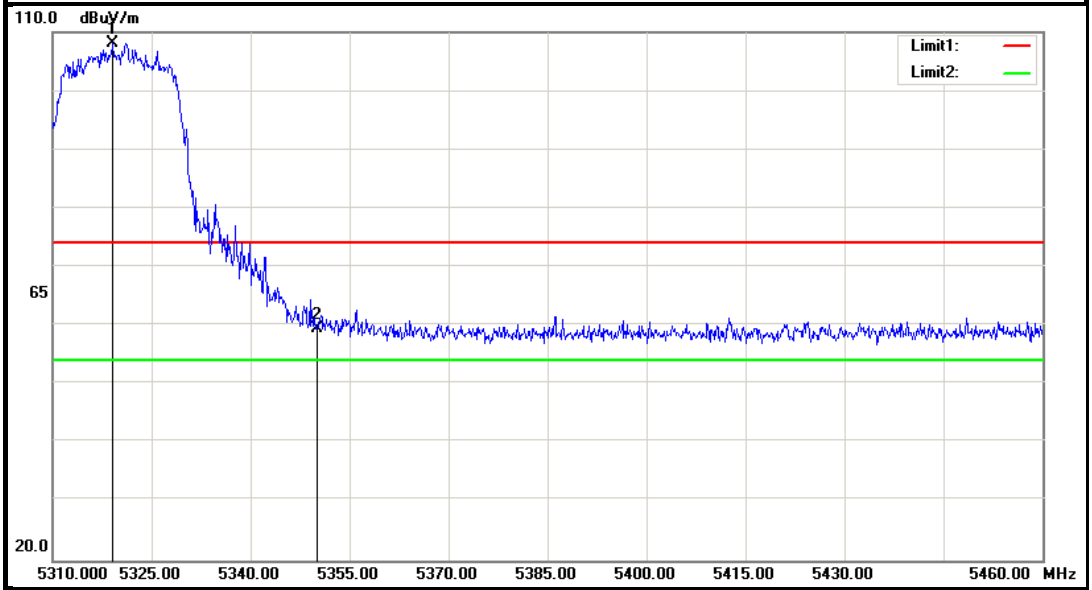
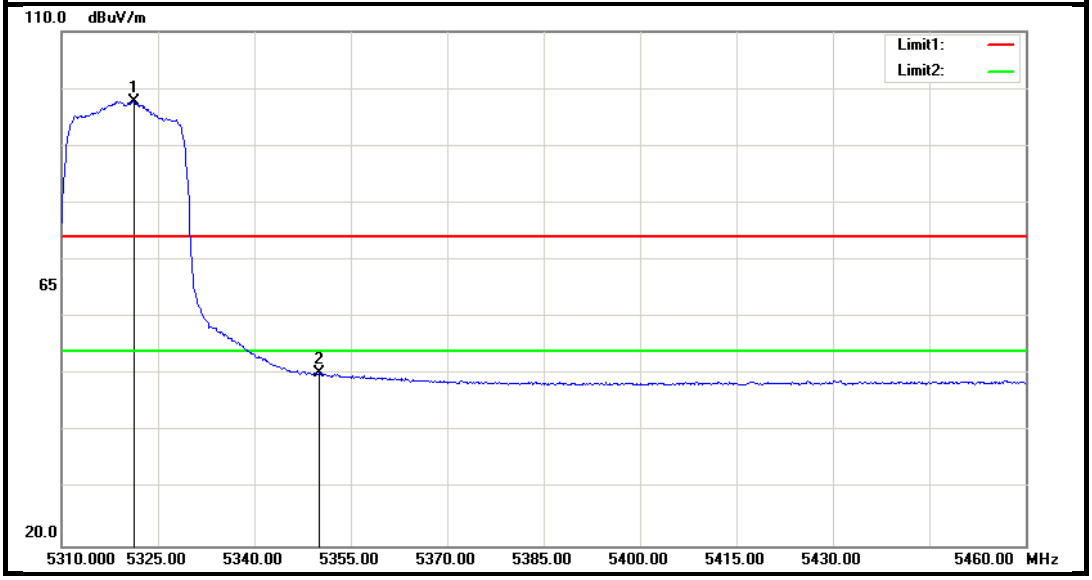
IEEE 802.11n HT 20 MHz mode / 5320 MHz

Detector mode: Peak **Polarity: Vertical**



Detector mode: Average **Polarity: Vertical**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5319.150	102.51	5.55	108.06	---	---	Peak	Vertical
2	5350.000	53.78	5.60	59.38	74.00	-14.62	Peak	Vertical
1	5321.250	92.27	5.55	97.82	---	---	Average	Vertical
2	5350.000	44.74	5.60	50.34	54.00	-3.66	Average	Vertical

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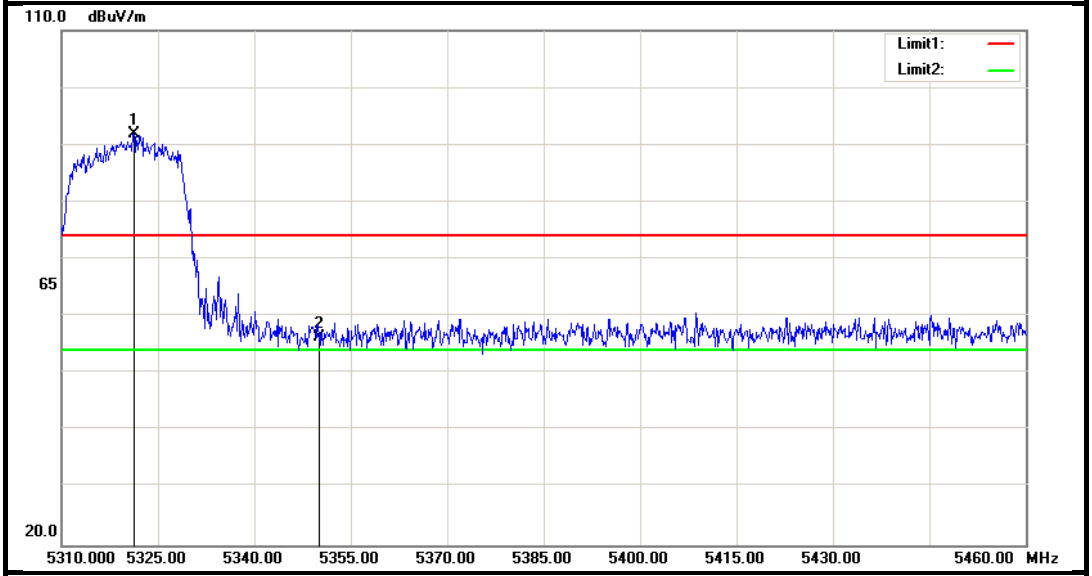
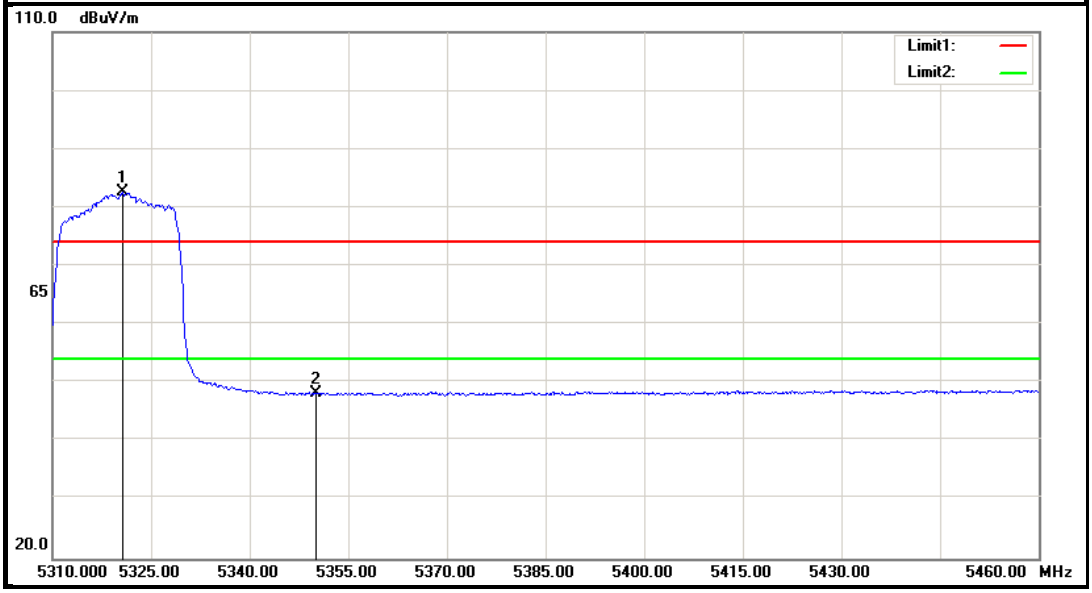
Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5321.250	86.40	5.55	91.95	---	---	Peak	Horizontal
2	5350.000	50.69	5.60	56.29	74.00	-17.71	Peak	Horizontal
1	5320.650	77.01	5.55	82.56	---	---	Average	Horizontal
2	5350.000	42.68	5.60	48.28	54.00	-5.72	Average	Horizontal

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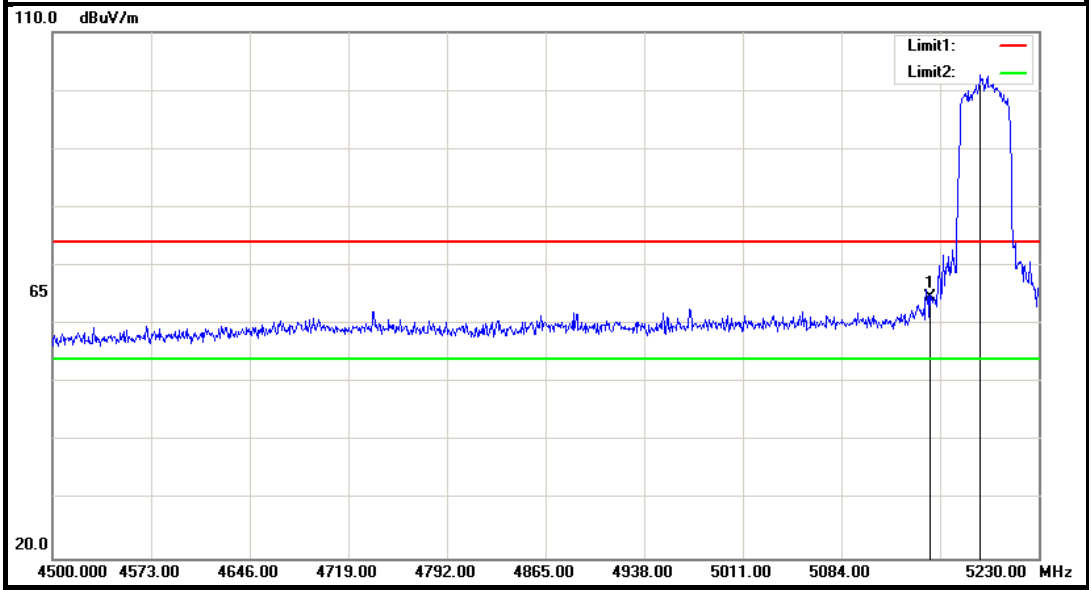
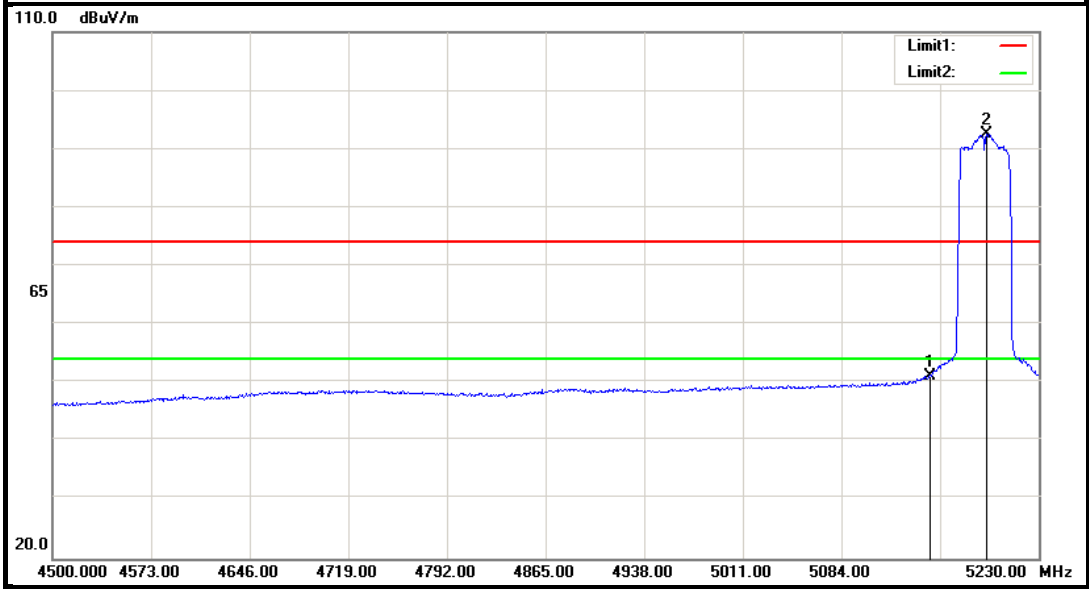
IEEE 802.11n HT 40 MHz mode / 5190 MHz

Detector mode: Peak **Polarity: Vertical**



Detector mode: Average **Polarity: Vertical**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	59.49	5.25	64.74	74.00	-9.26	Peak	Vertical
2	5186.930	97.40	5.31	102.71	---	---	Peak	Vertical
1	5150.000	46.02	5.25	51.27	54.00	-2.73	Average	Vertical
2	5191.310	87.27	5.32	92.59	---	---	Average	Vertical

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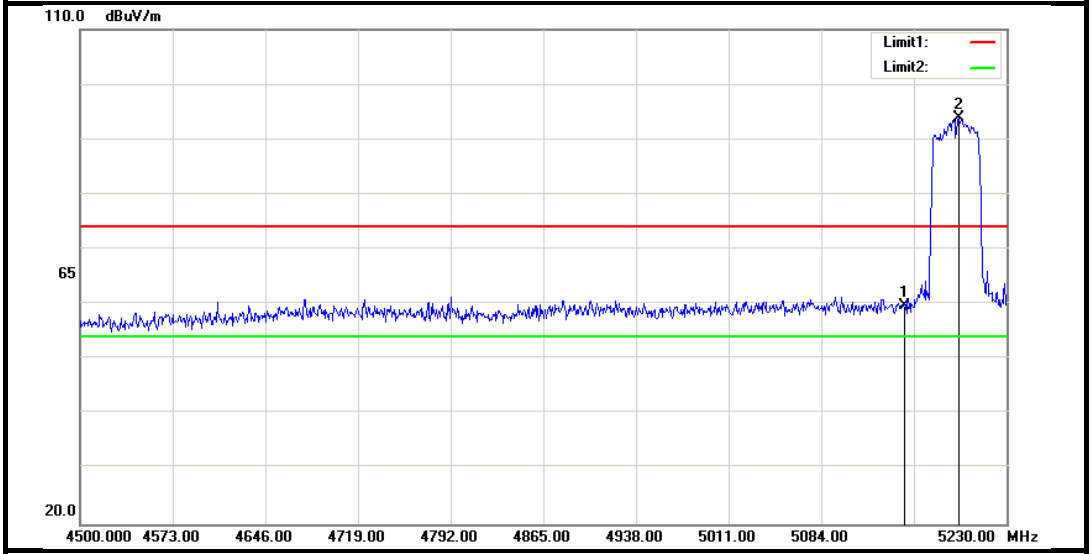
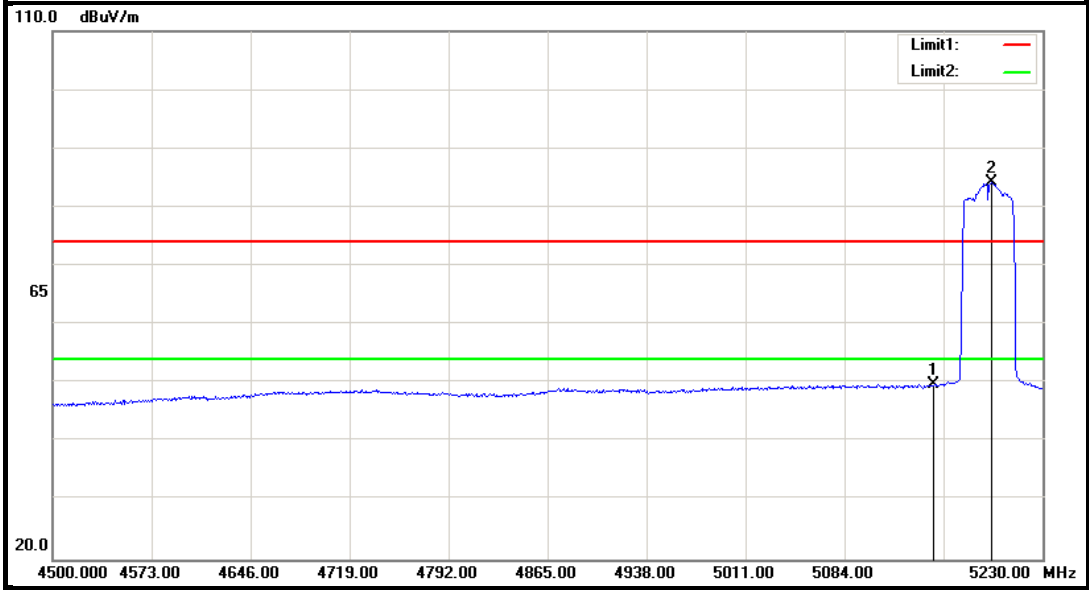
Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	54.52	5.25	59.77	74.00	-14.23	Peak	Horizontal
2	5192.040	88.70	5.32	94.02	---	---	Peak	Horizontal
1	5150.000	44.45	5.25	49.70	54.00	-4.30	Average	Horizontal
2	5192.770	78.81	5.32	84.13	---	---	Average	Horizontal

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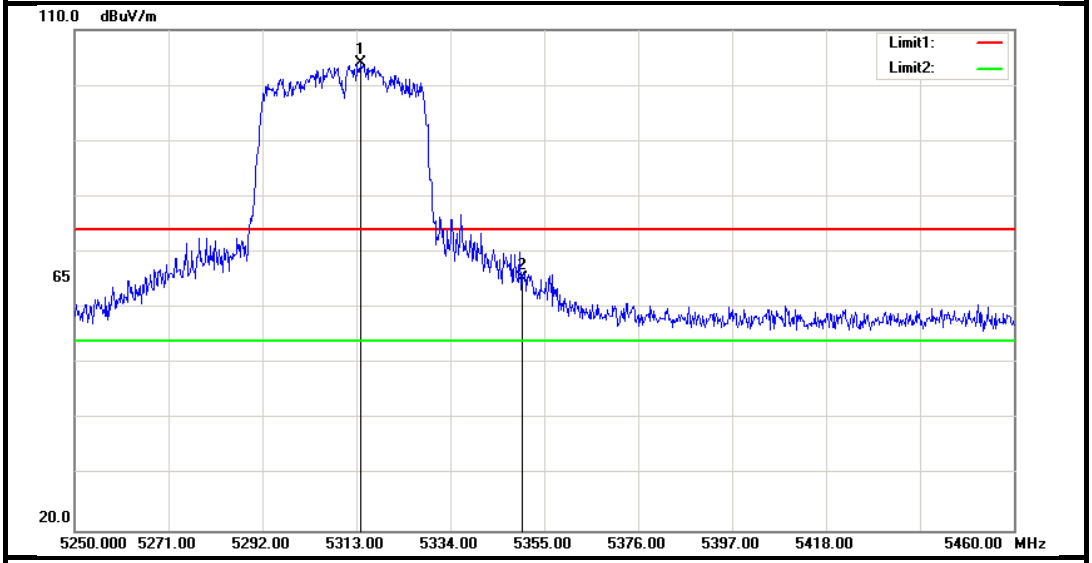
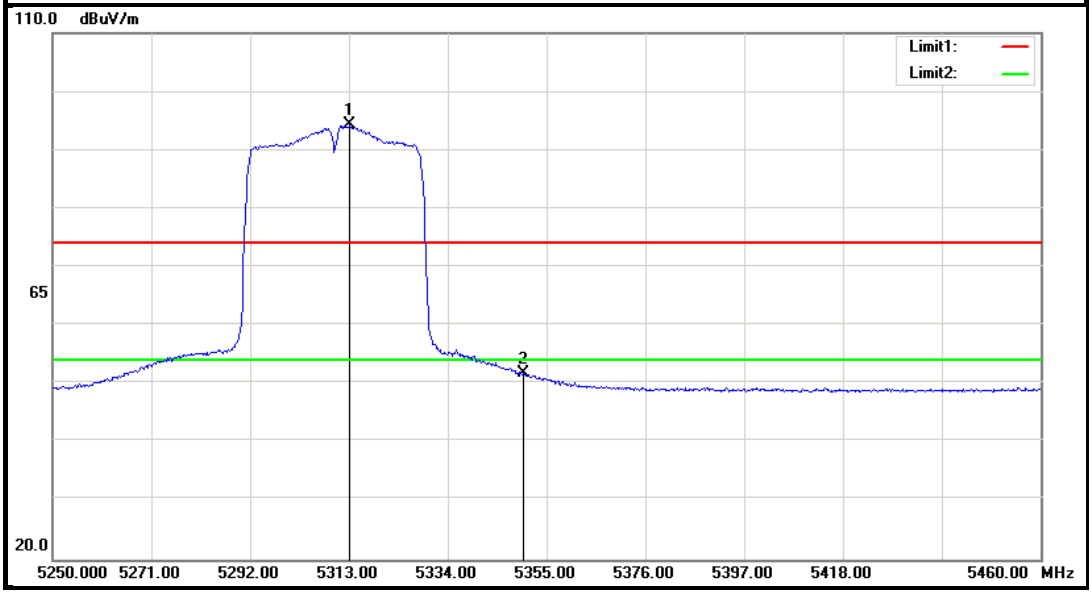
IEEE 802.11n HT 40 MHz mode / 5310 MHz

Detector mode: Peak **Polarity: Vertical**



Detector mode: Average **Polarity: Vertical**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5313.840	98.48	5.54	104.02	---	---	Peak	Vertical
2	5350.000	59.79	5.60	65.39	74.00	-8.61	Peak	Vertical
1	5313.210	88.77	5.54	94.31	---	---	Average	Vertical
2	5350.000	46.19	5.60	51.79	54.00	-2.21	Average	Vertical

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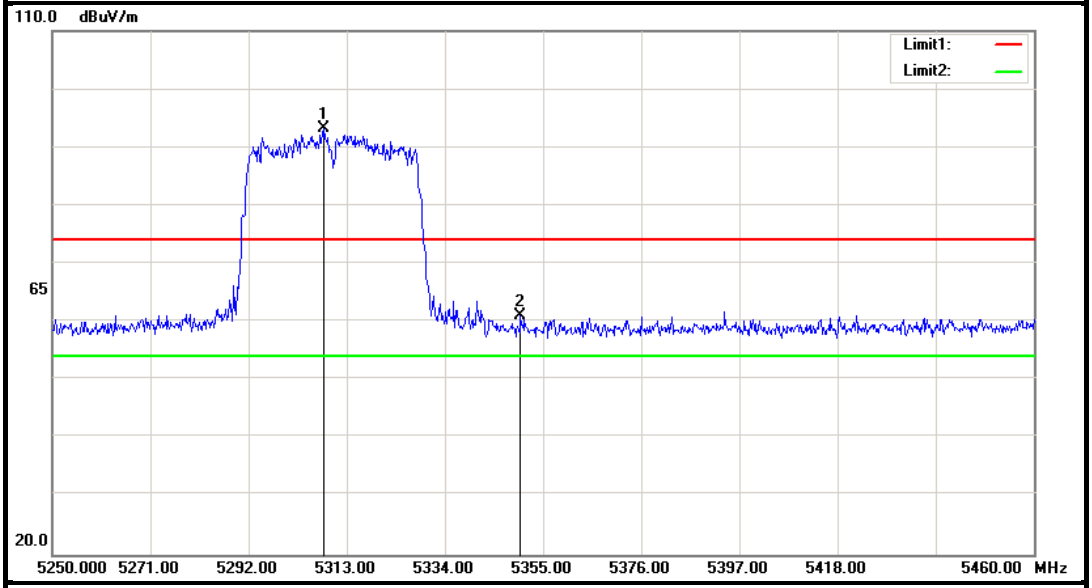
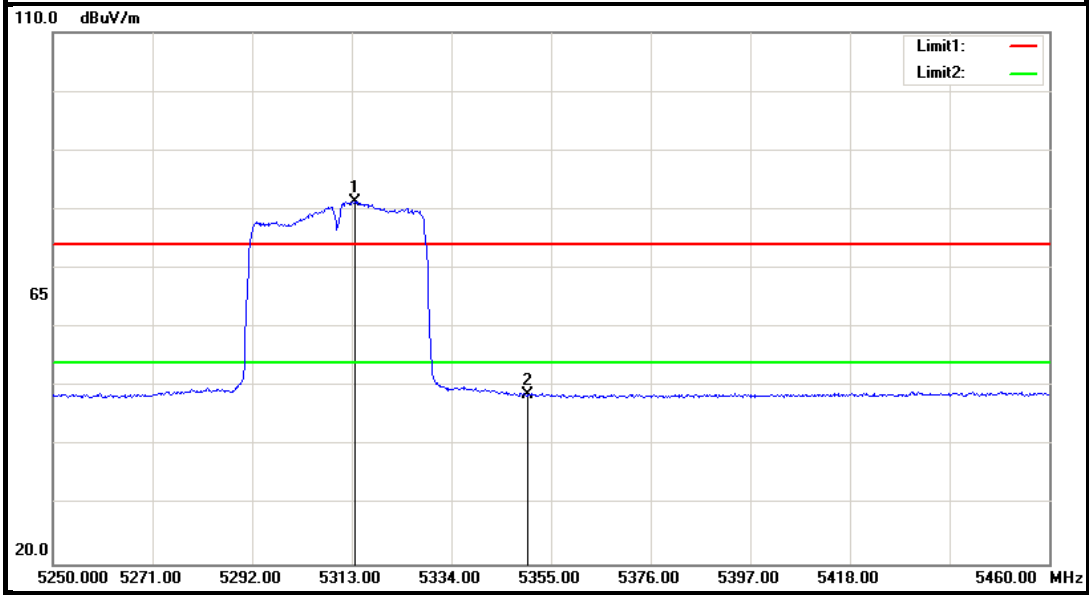
Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5308.170	87.69	5.53	93.22	---	---	Peak	Horizontal
2	5350.000	55.49	5.60	61.09	74.00	-12.91	Peak	Horizontal
1	5313.630	75.85	5.54	81.39	---	---	Average	Horizontal
2	5350.000	43.15	5.60	48.75	54.00	-5.25	Average	Horizontal

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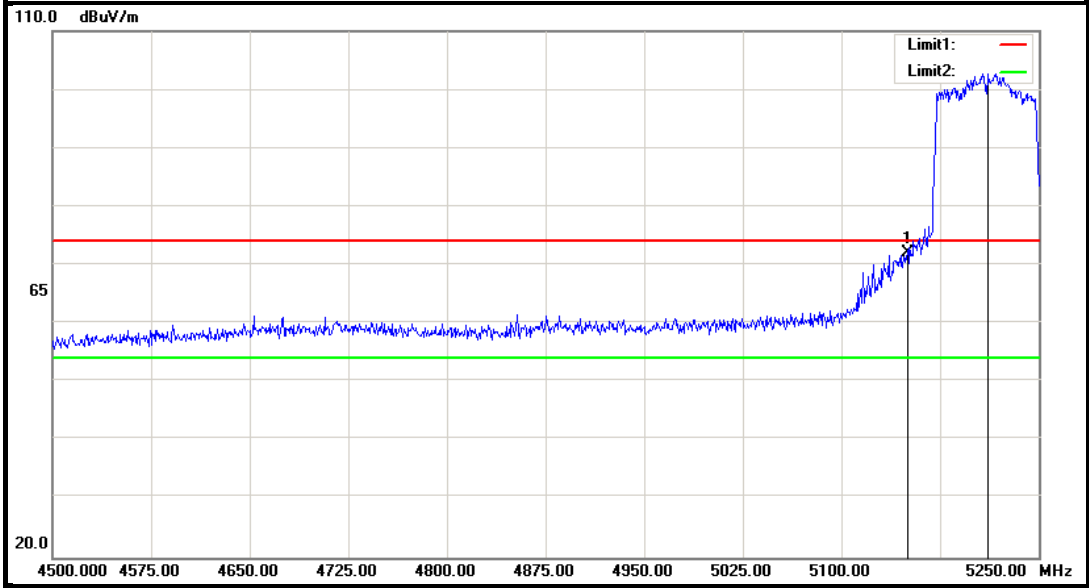
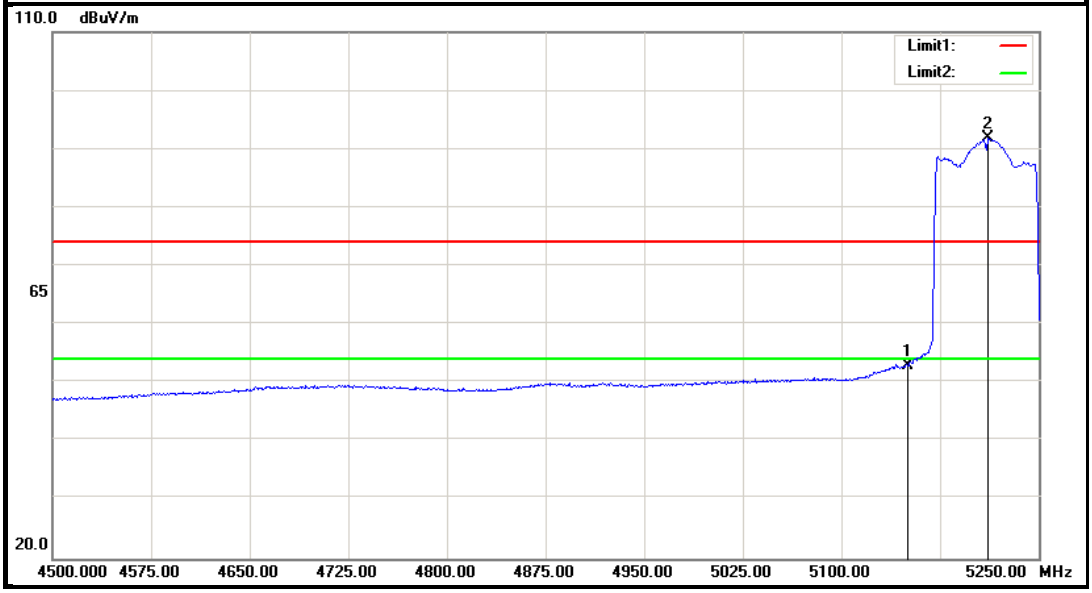
IEEE 802.11ac 80 mode / 5210 MHz

Detector mode: Peak **Polarity: Vertical**



Detector mode: Average **Polarity: Vertical**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	66.91	5.25	72.16	74.00	-1.84	Peak	Vertical
2	5211.750	97.41	5.36	102.77	---	---	Peak	Vertical
1	5150.000	47.69	5.25	52.94	54.00	-1.06	Average	Vertical
2	5211.750	86.43	5.36	91.79	---	---	Average	Vertical

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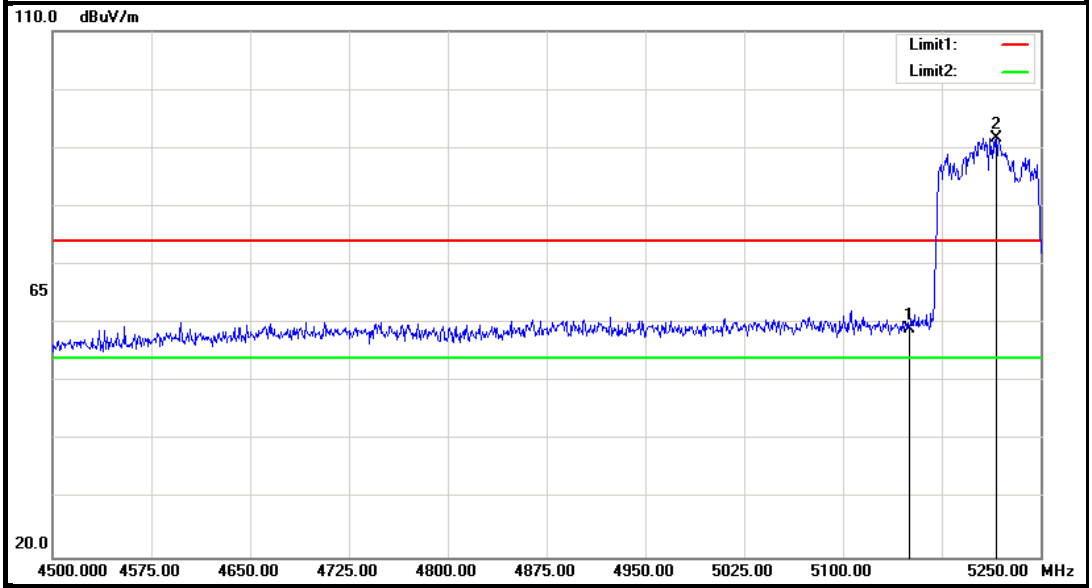
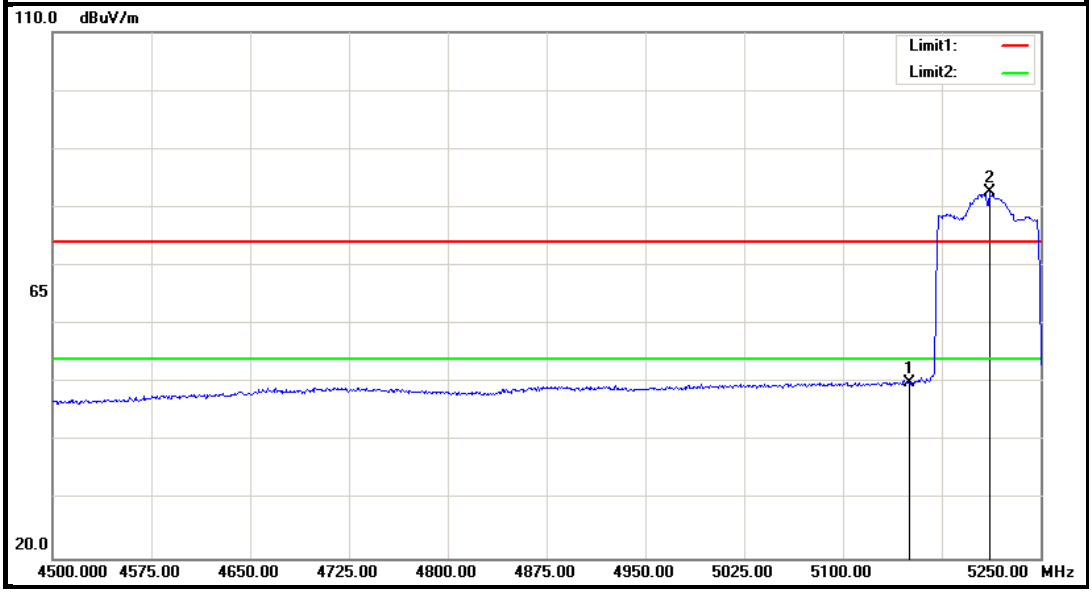
Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	53.89	5.25	59.14	74.00	-14.86	Peak	Horizontal
2	5216.250	86.27	5.36	91.63	---	---	Peak	Horizontal
1	5150.000	44.74	5.25	49.99	54.00	-4.01	Average	Horizontal
2	5211.000	77.25	5.36	82.61	---	---	Average	Horizontal

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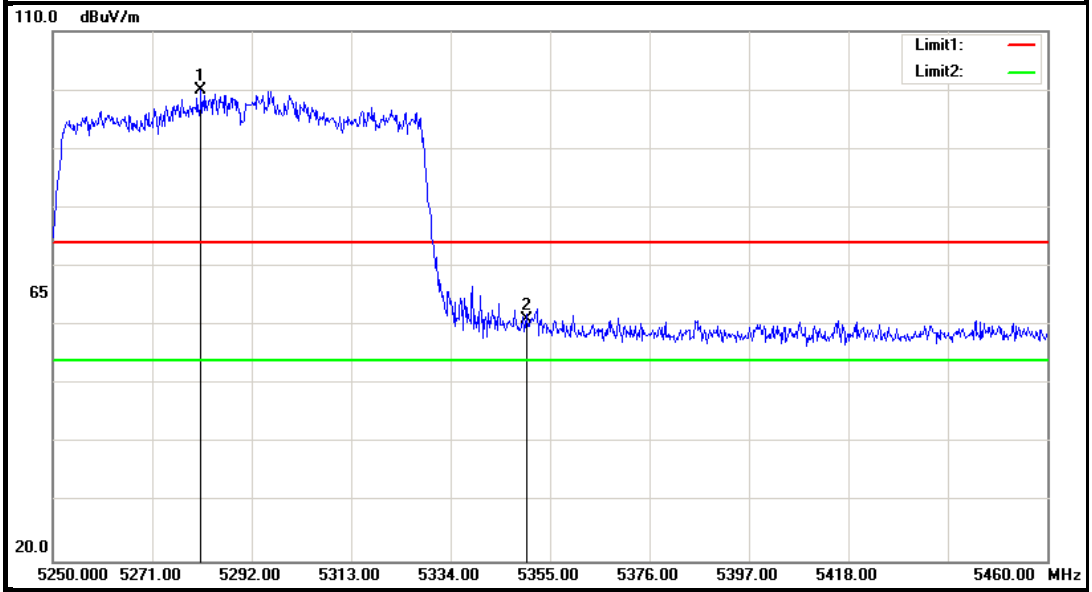
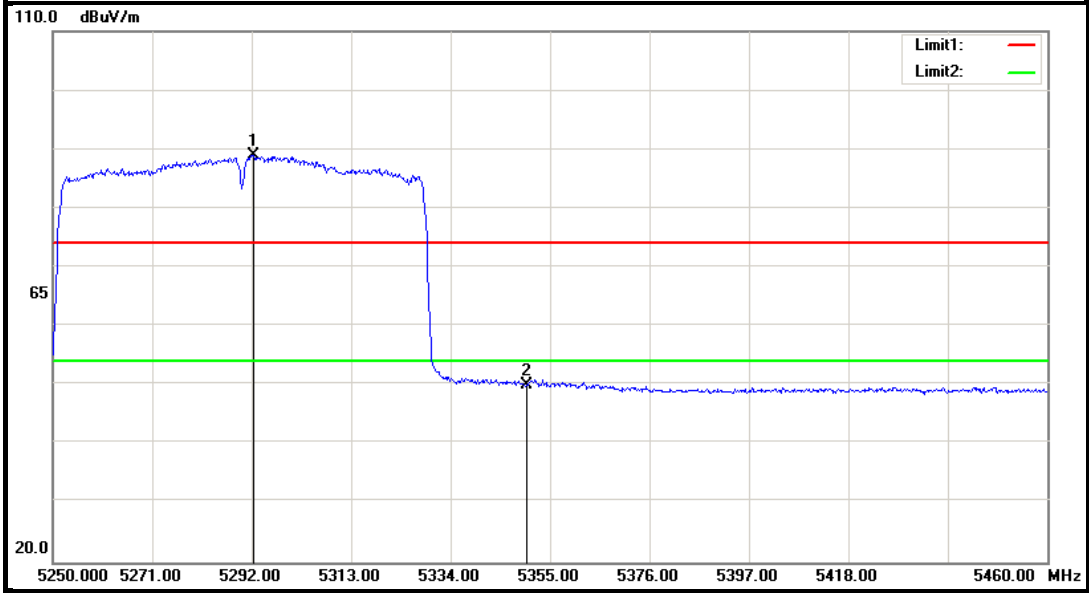
IEEE 802.11ac 80 mode / 5290 MHz

Detector mode: Peak **Polarity: Vertical**



Detector mode: Average **Polarity: Vertical**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5281.290	94.43	5.48	99.91	---	---	Peak	Vertical
2	5350.000	55.38	5.60	60.98	74.00	-13.02	Peak	Vertical
1	5292.420	83.52	5.50	89.02	---	---	Average	Vertical
2	5350.000	44.38	5.60	49.98	54.00	-4.02	Average	Vertical

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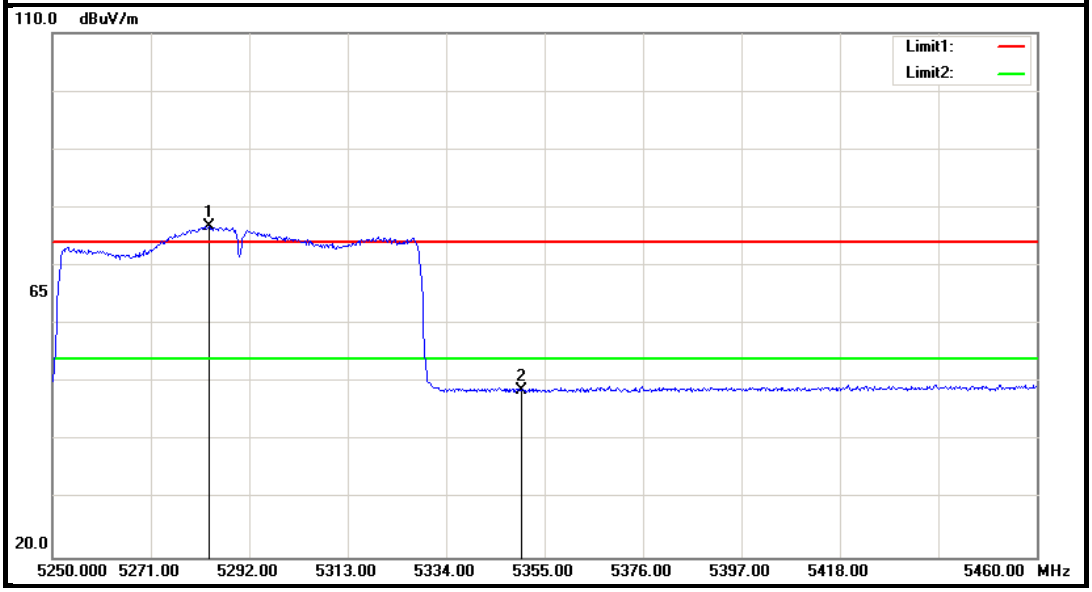
Detector mode: Peak **Polarity: Horizontal**

Detector mode: Average **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5280.450	80.53	5.48	86.01	---	---	Peak	Horizontal
2	5350.000	51.78	5.60	57.38	74.00	-16.62	Peak	Horizontal
1	5283.390	71.29	5.48	76.77	---	---	Average	Horizontal
2	5350.000	43.05	5.60	48.65	54.00	-5.35	Average	Horizontal

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6.6 PEAK POWER SPECTAL DENSITY

6.6.1 LIMIT

According to §15.407(a) & FCC R&O FCC 14-30

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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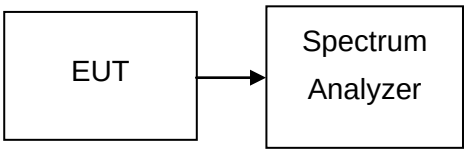
(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the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

Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

6.6.2 TEST CONFIGURATION



6.6.3 TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
   Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. For devices operating in the bands 5.15-5.25 GHz,Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span > 26dB bandwidth, Sweep=1ms
3. For devices operating in the bands 5.725-5.85 GHz,Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span > 26dB bandwidth, Sweep=1ms
4. Record the max. reading.
5. Repeat the above procedure until the measurements for all frequencies are completed

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6.6.4 TEST RESULTS

Test Data

Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5180	4.922	11	-6.078	PASS
Mid	5200	4.572		-6.428	PASS
High	5240	2.726		-8.274	PASS

Test mode: IEEE 802.11a mode / 5260~ 5320MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5260	2.337	11	-8.663	PASS
Mid	5300	0.002		-10.998	PASS
High	5320	-1.104		-12.104	PASS

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5500	-0.409	11	-11.409	PASS
Mid	5580	0.107		-10.893	PASS
High	5700	2.674		-8.326	PASS

Test mode: IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5745	1.076	30	-28.924	PASS
Mid	5785	1.116		-28.884	PASS
High	5825	0.590		-29.410	PASS

Remark:

The RBW factor = 10log10(500/470)=0.269 dB into test plots.

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Test mode: IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5180	4.371	11	-6.629	PASS
Mid	5200	4.346		-6.654	PASS
High	5240	2.037		-8.963	PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5260	2.239	11	-8.761	PASS
Mid	5300	0.068		-10.932	PASS
High	5320	-1.212		-12.212	PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5500	-0.255	11	-11.255	PASS
Mid	5580	-0.473		-11.473	PASS
High	5700	2.125		-8.875	PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5745	0.539	30	-29.461	PASS
Mid	5785	0.351		-29.649	PASS
High	5825	0.232		-29.768	PASS

Remark:

The RBW factor = 10log10(500/470)=0.269 dB into test plots.

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Test mode: IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5190	1.040	11	-9.960	PASS
High	5230	-0.496		-11.496	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5270	-2.145	11	-13.145	PASS
High	5310	-3.993		-14.993	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5510	-3.819	11	-14.819	PASS
Mid	5550	-3.426		-14.426	PASS
High	5670	-1.735		-12.735	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5755	-2.634	30	-32.634	PASS
High	5795	-2.979		-32.979	PASS

Remark:

The RBW factor = 10log10(500/470)=0.269 dB into test plots.

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Test mode: IEEE 802.11ac 80 mode / 5210MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
	5210	-2.528	11	-13.528	PASS

Test mode: IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
	5290	-6.085	11	-17.085	PASS

Test mode: IEEE 802.11ac 80 mode / 5530MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
	5530	-6.880	11	-17.880	PASS

Test mode: IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
	5775	-5.754	30	-35.754	PASS

Remark:

The RBW factor = 10log10(500/470)=0.269 dB into test plots.

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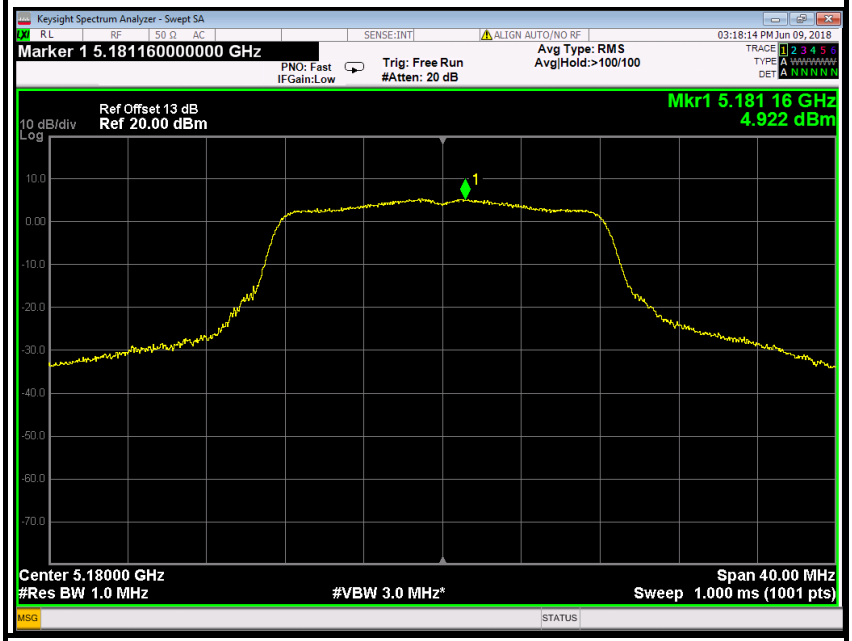
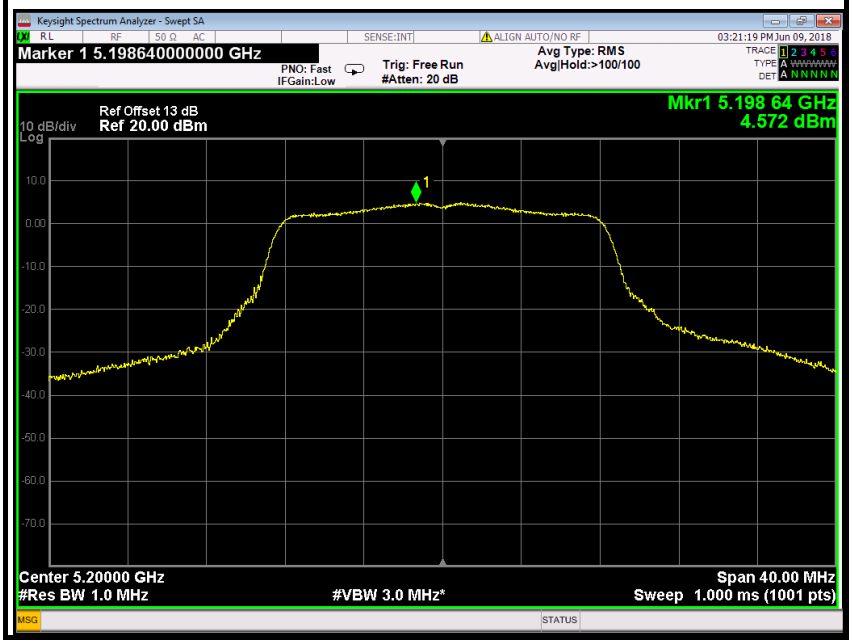
Test Plot

IEEE 802.11a mode / 5180 ~ 5240MHz

PPSD (CH Low)



PPSD (CH Mid)



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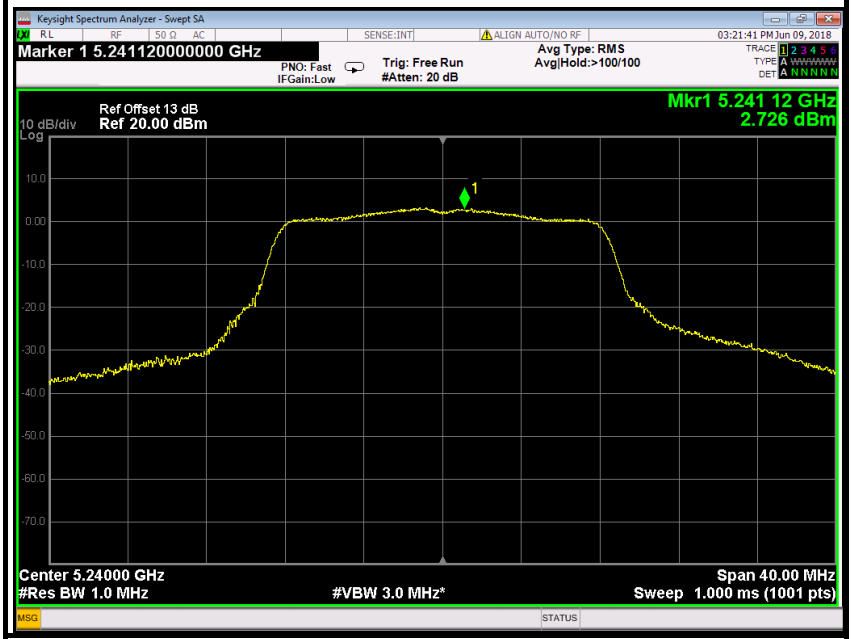
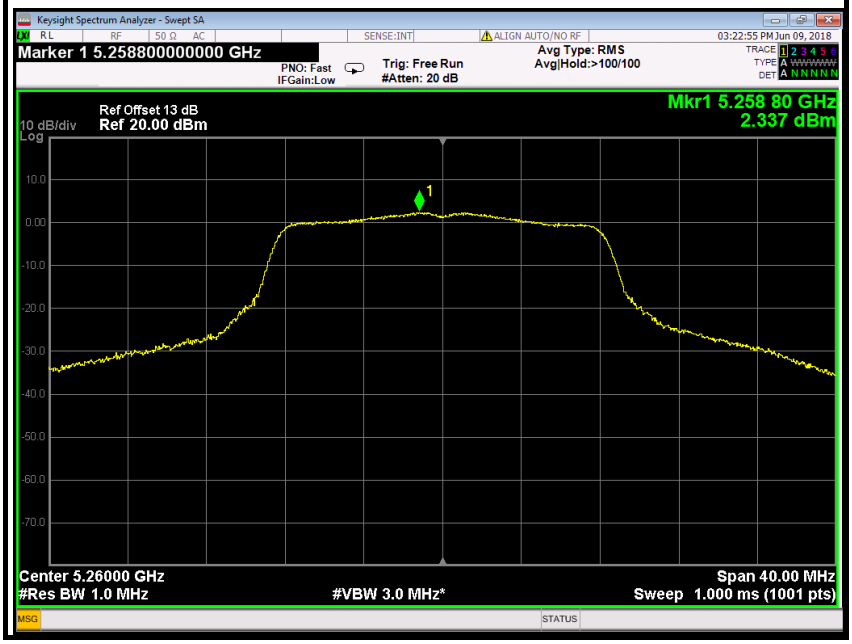
PPSD (CH High)



IEEE 802.11a mode / 5260~ 5320MHz

PPSD (CH Low)



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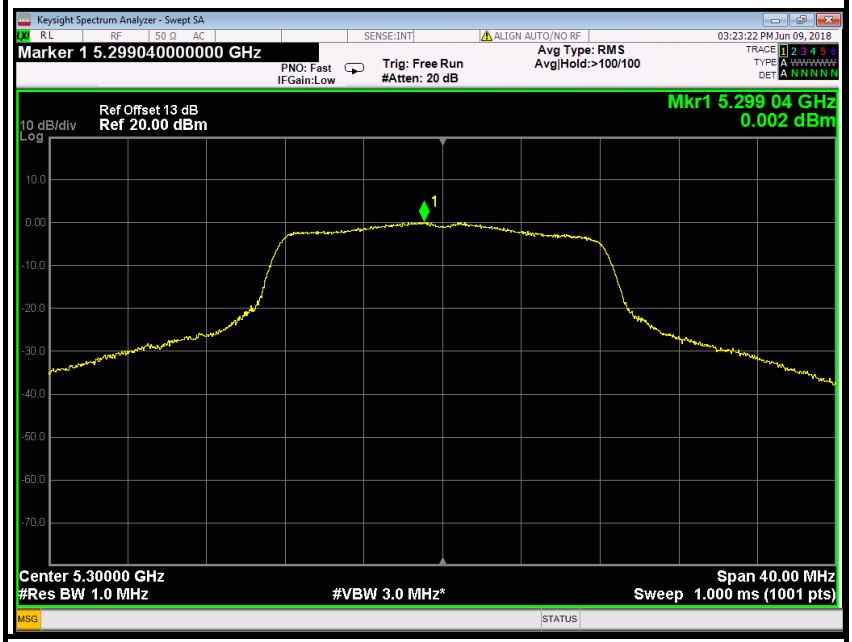
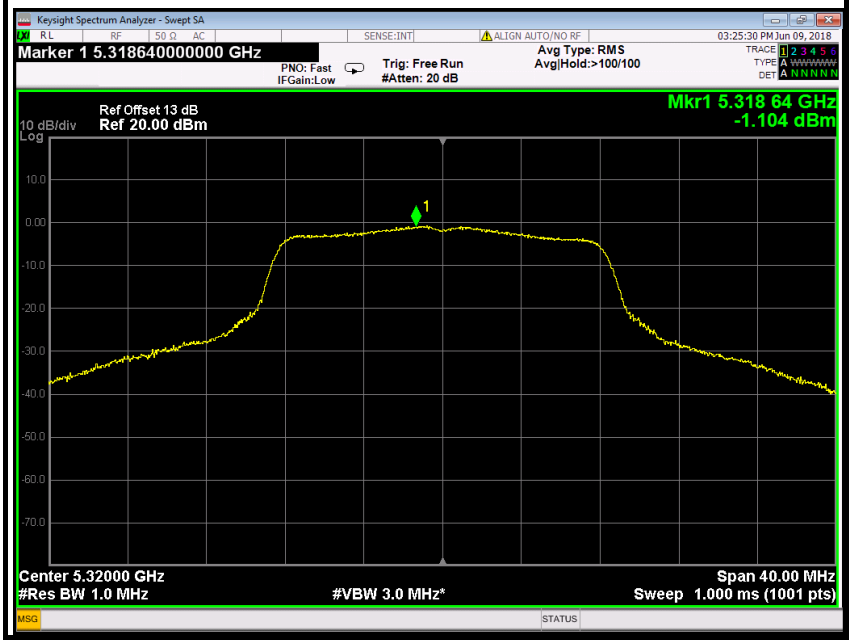
PPSD (CH Mid)



PPSD (CH High)



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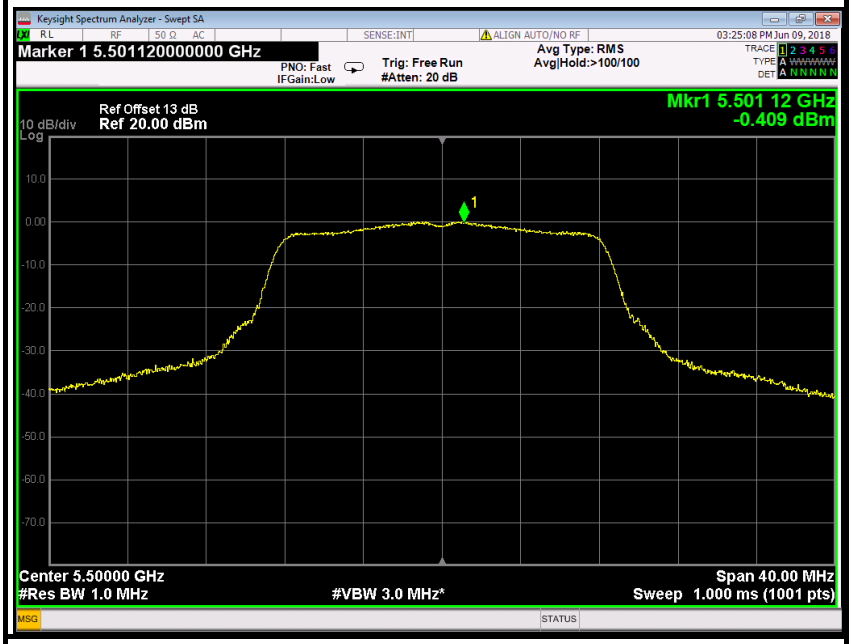
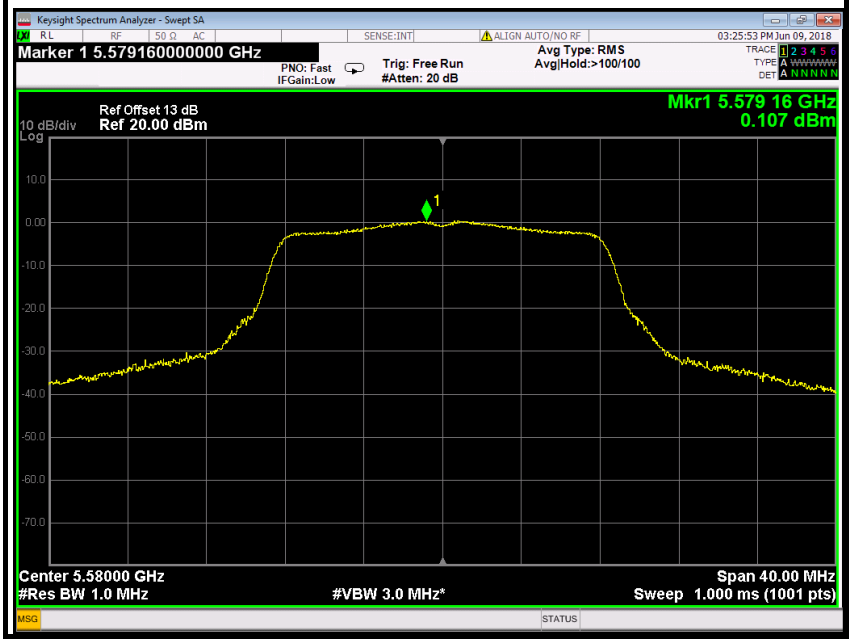
IEEE 802.11a mode / 5500 ~ 5700MHz

PPSD (CH Low)



PPSD (CH Mid)



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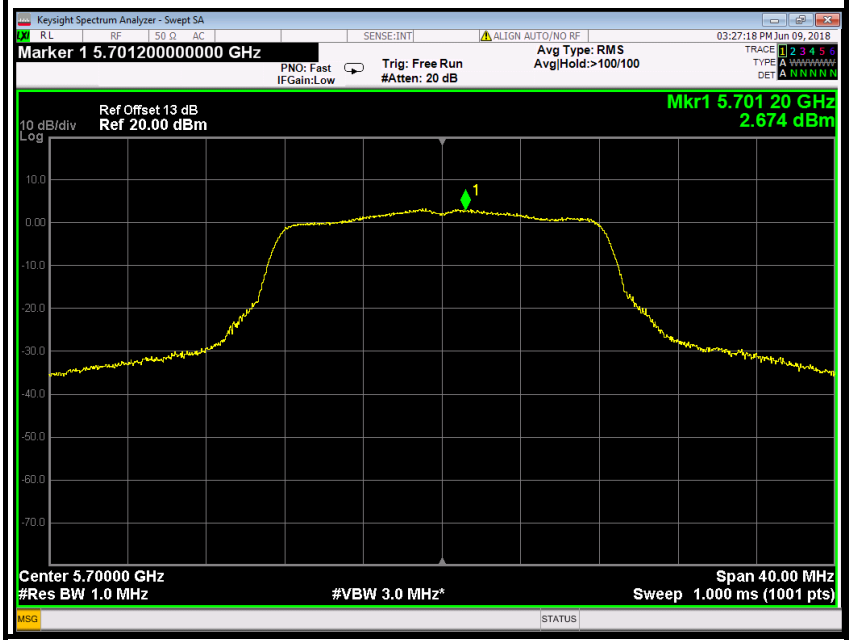
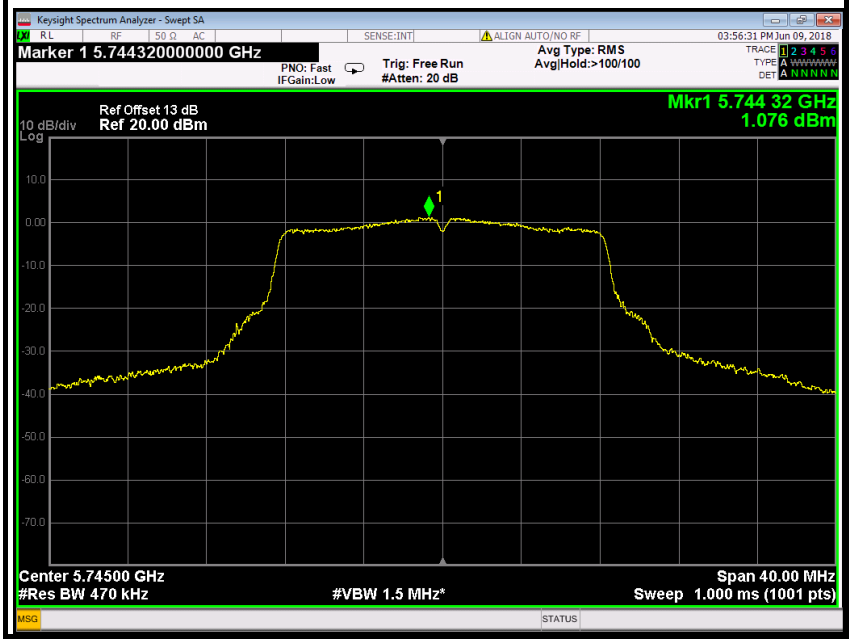
PPSD (CH High)



IEEE 802.11a mode / 5745 ~ 5825MHz

PPSD (CH Low)



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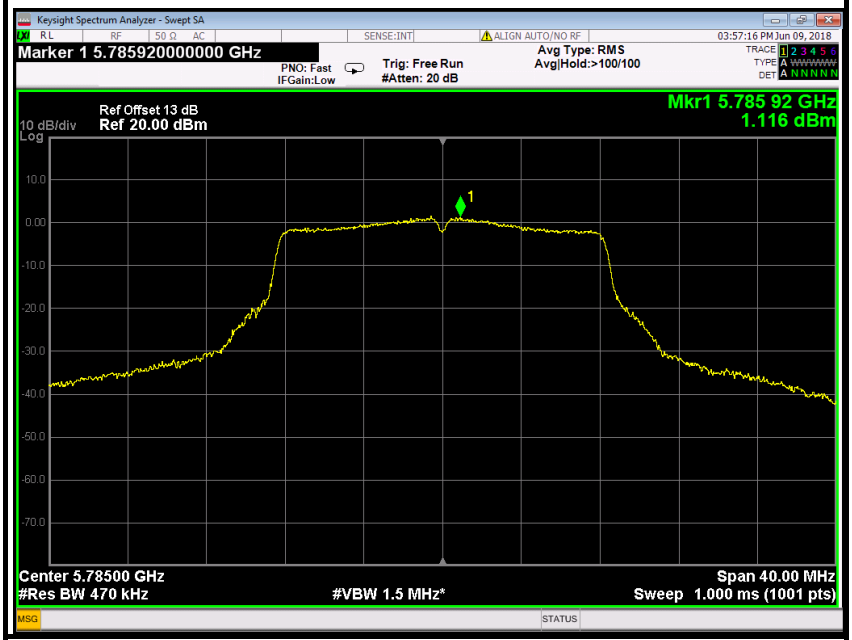
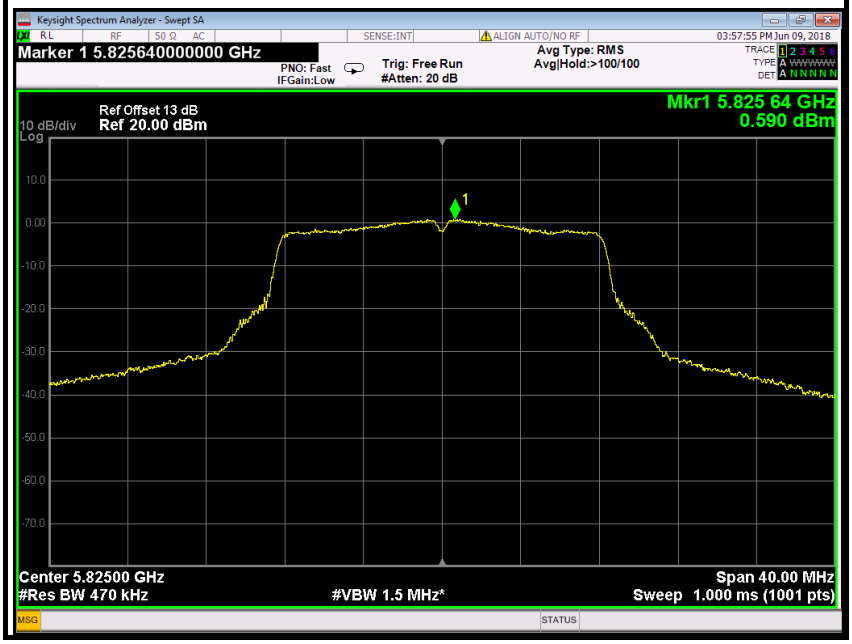
PPSD (CH Mid)



PPSD (CH High)



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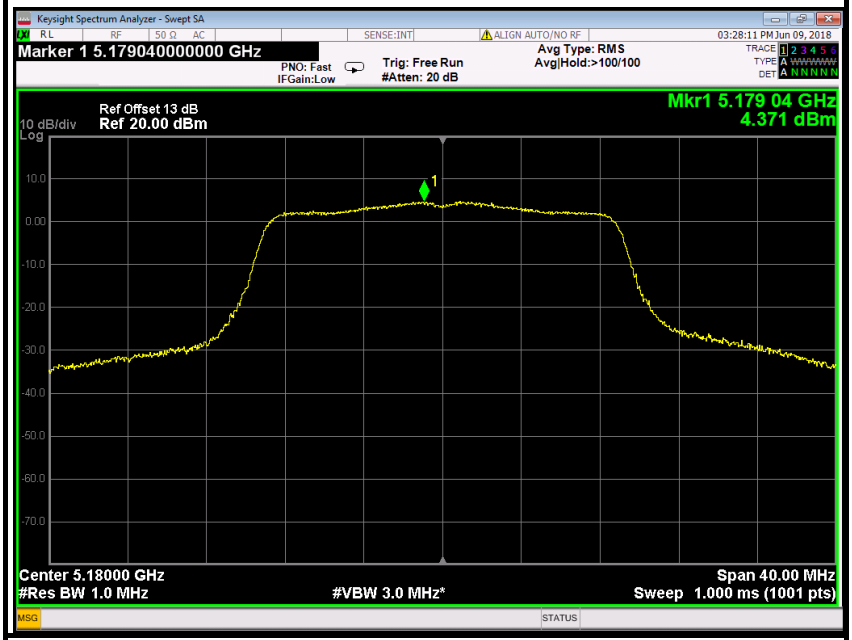
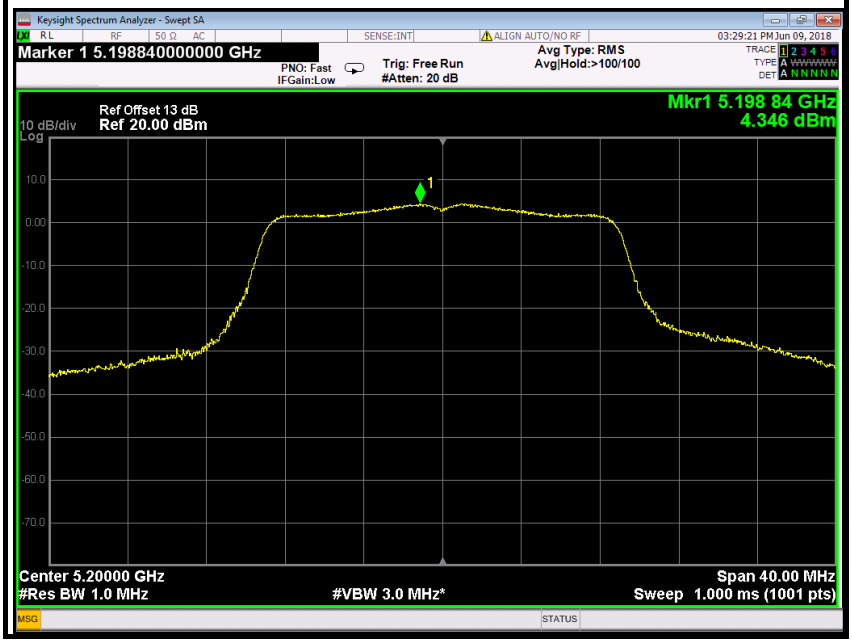
IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

PPSD (CH Low)



PPSD (CH Mid)



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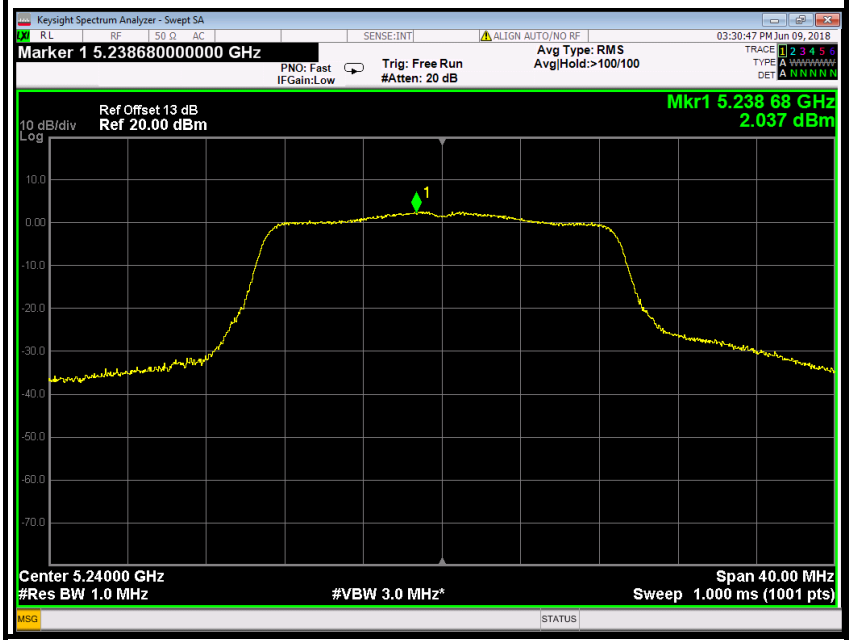
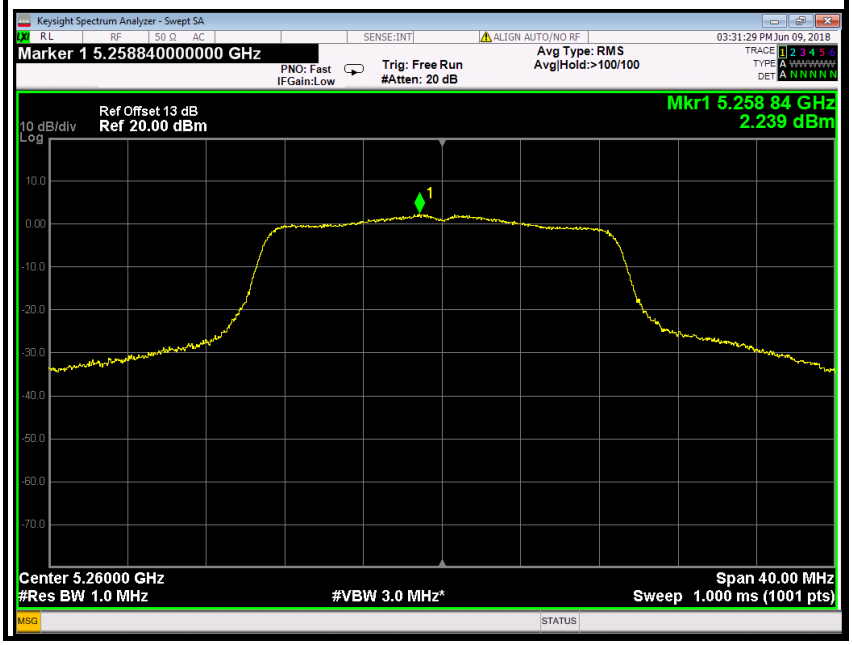
PPSD (CH High)



IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz

PPSD (CH Low)



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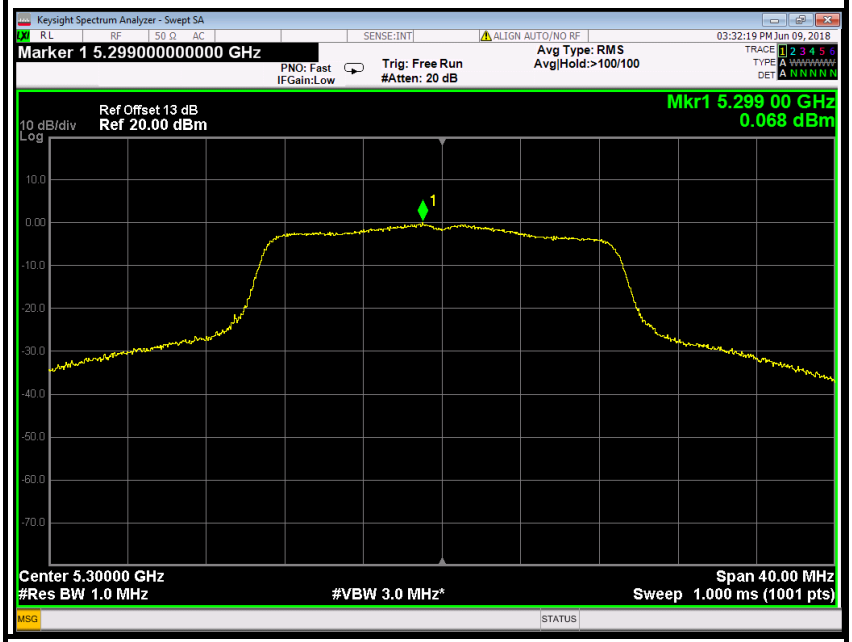
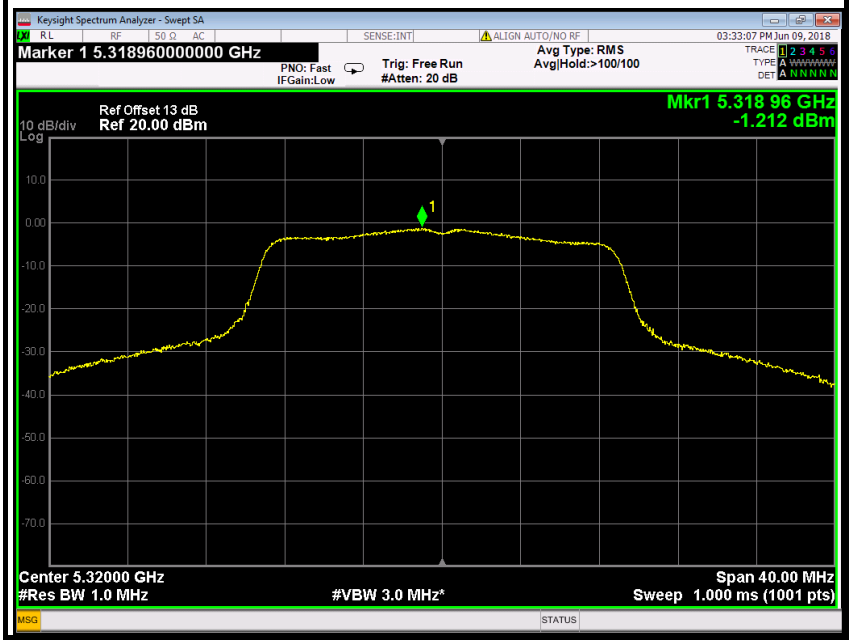
PPSD (CH Mid)



PPSD (CH High)



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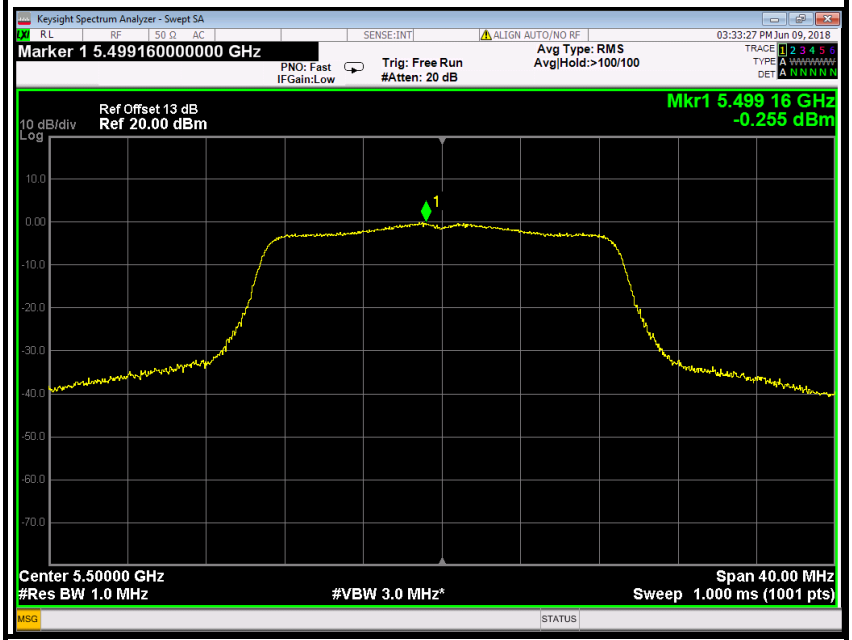
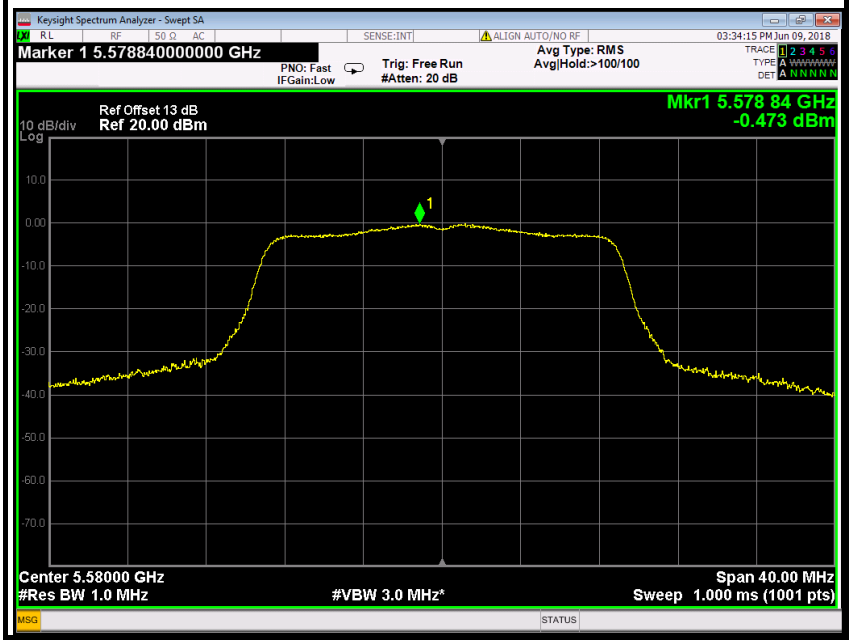
IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

PPSD (CH Low)



PPSD (CH Mid)



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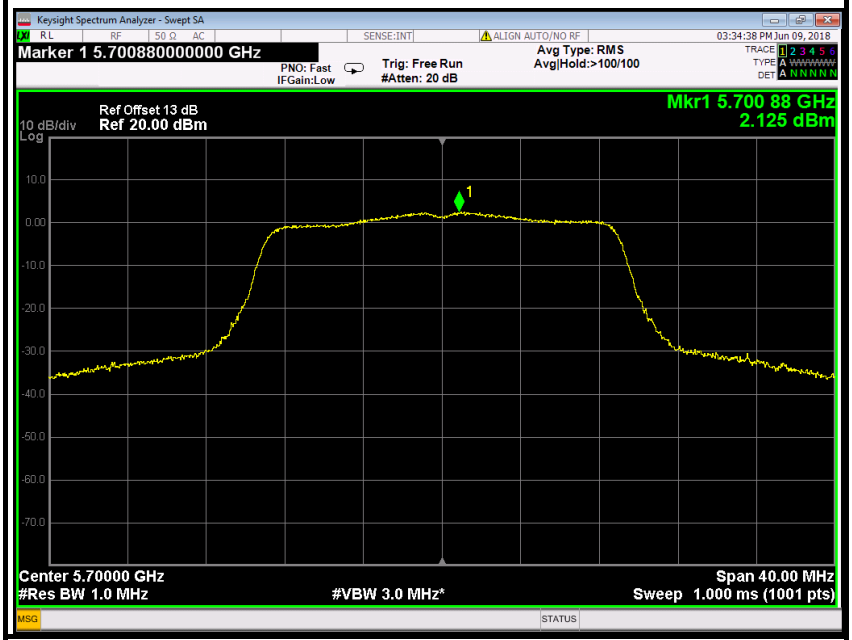
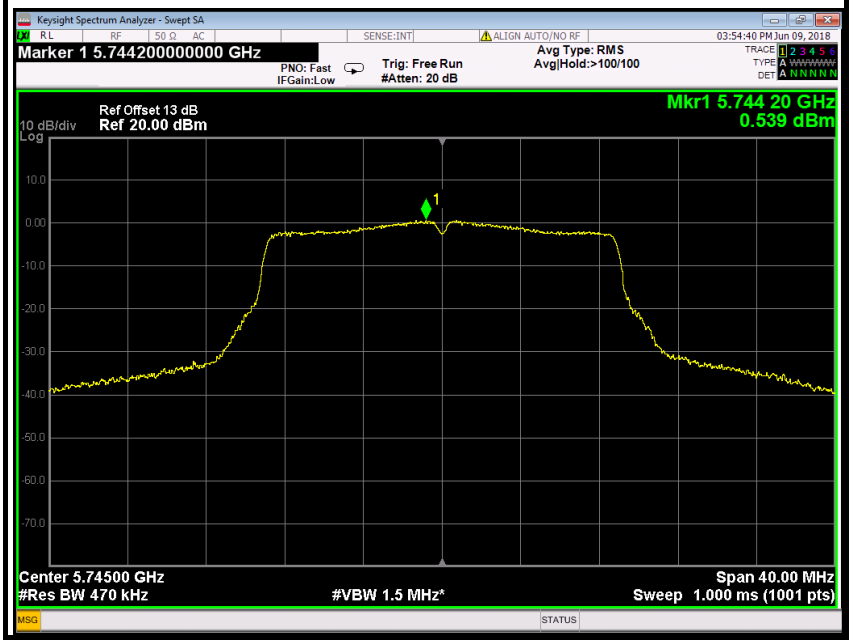
PPSD (CH High)



IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

PPSD (CH Low)



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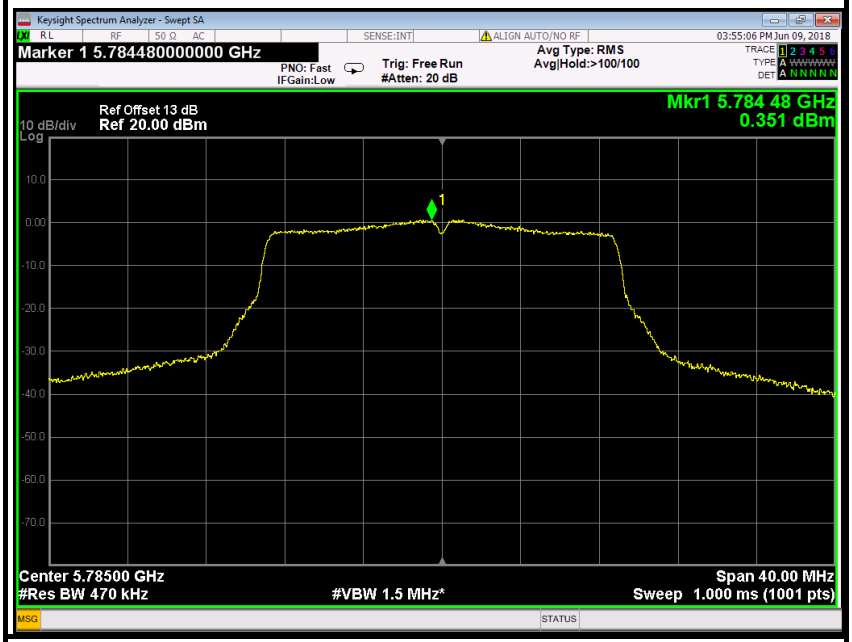
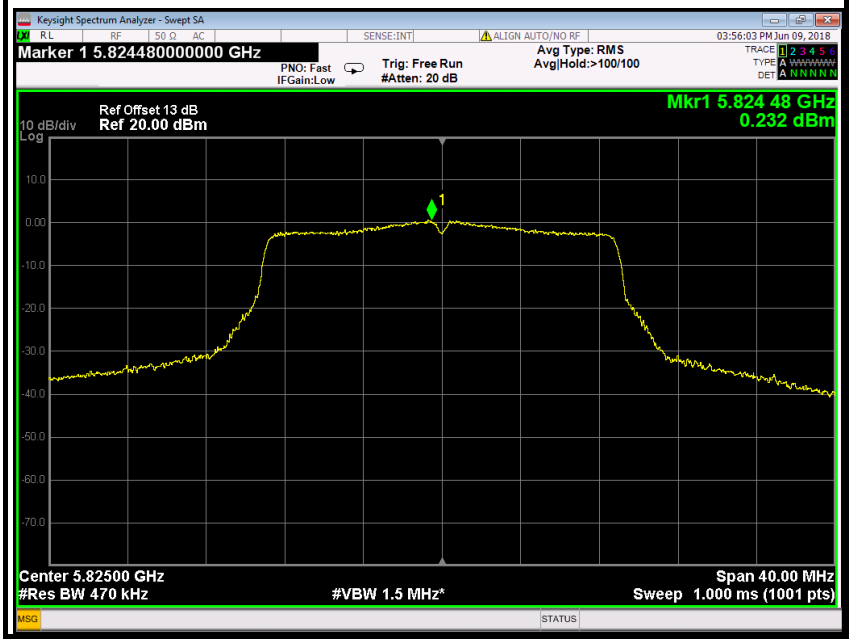
PPSD (CH Mid)



PPSD (CH High)



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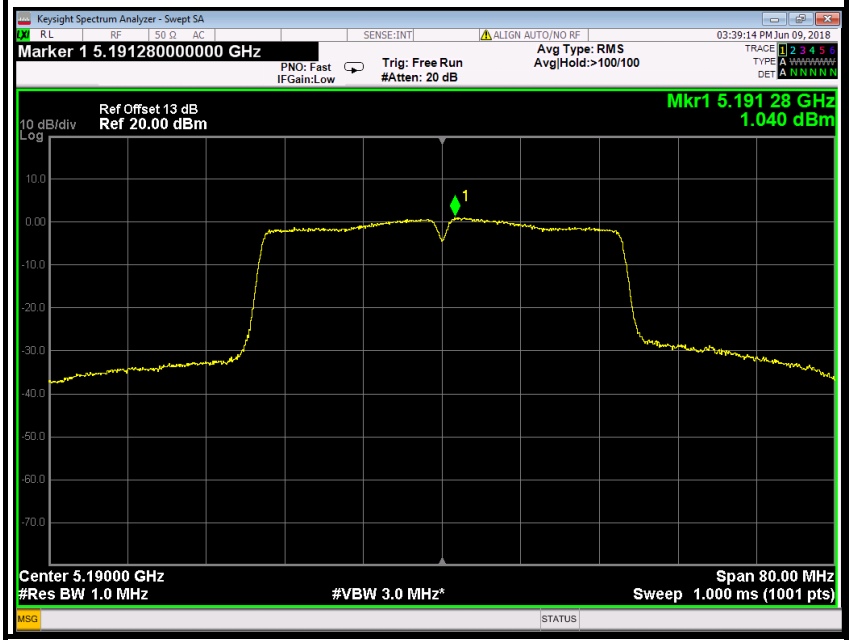
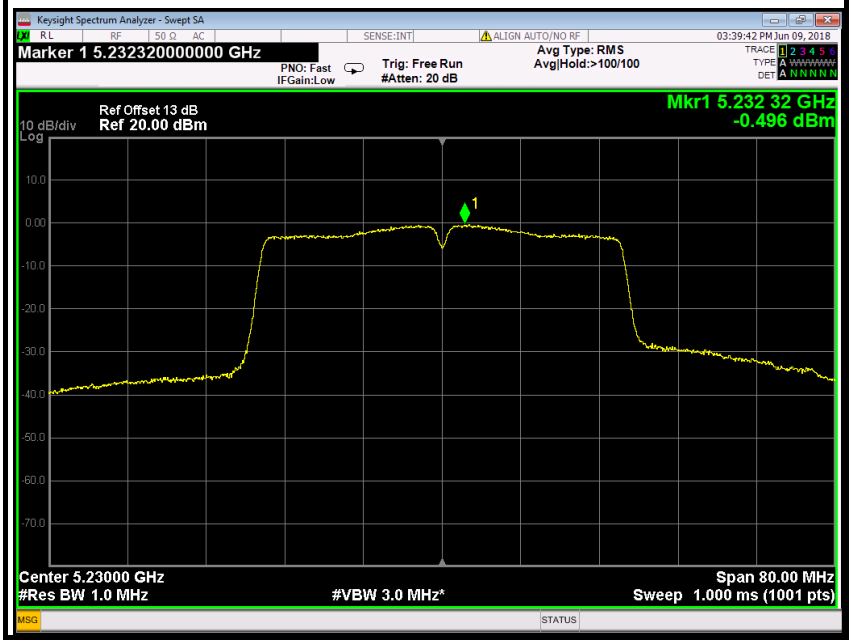
IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

PPSD (CH Low)



PPSD (CH High)



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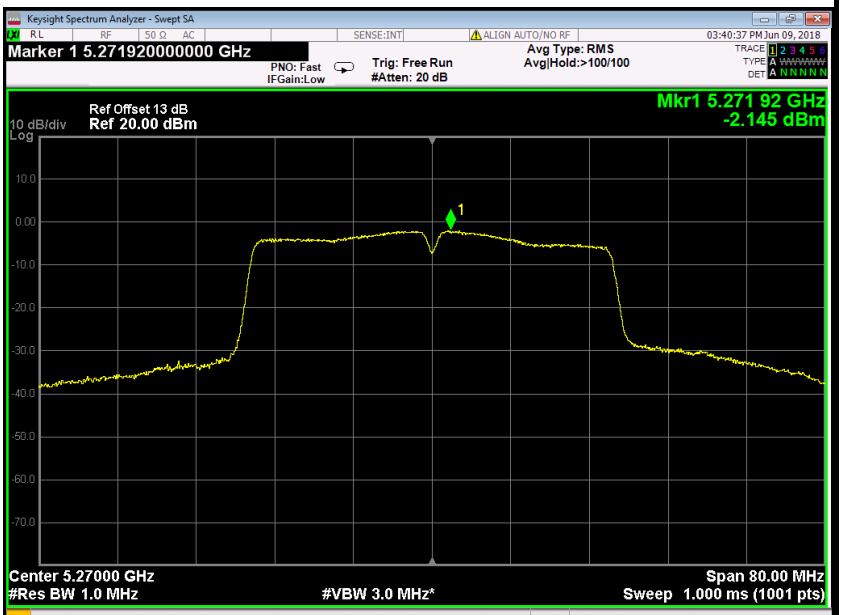
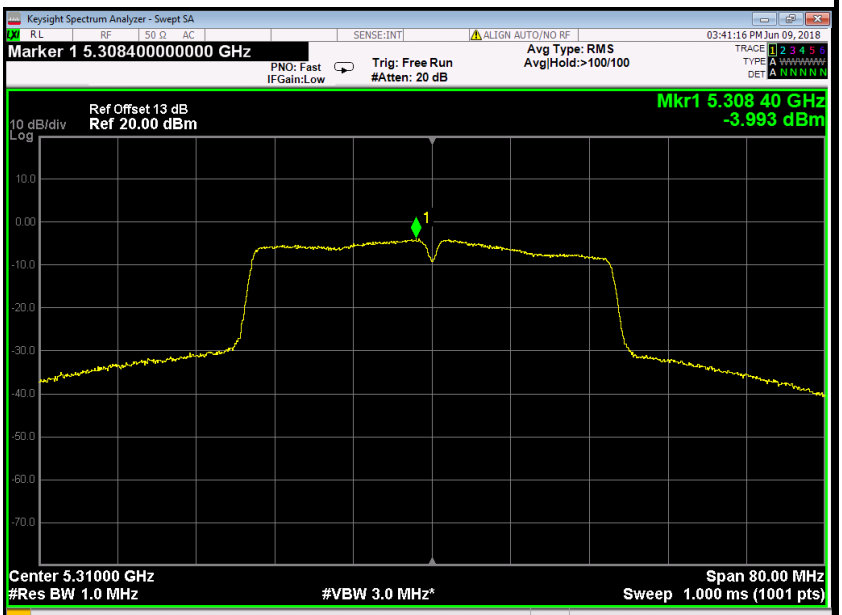
IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

PPSD (CH Low)



PPSD (CH High)



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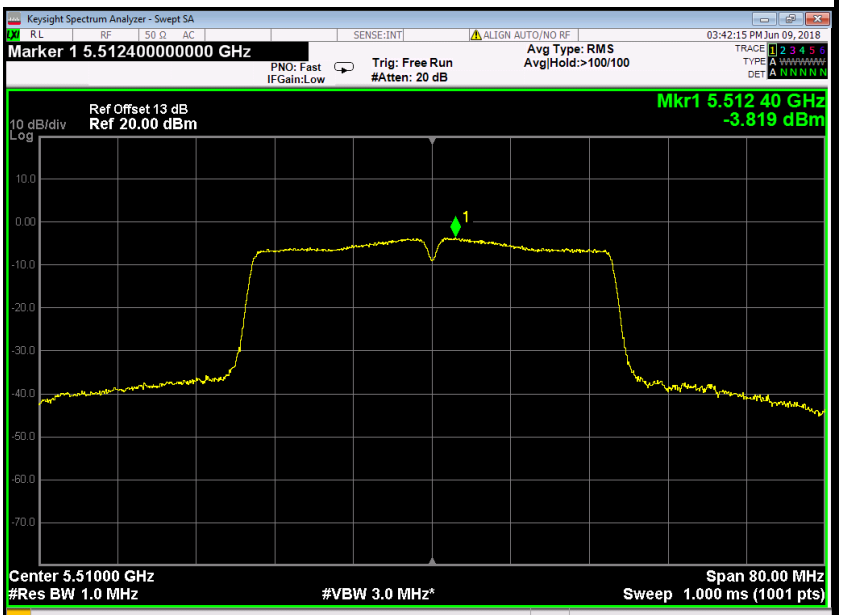
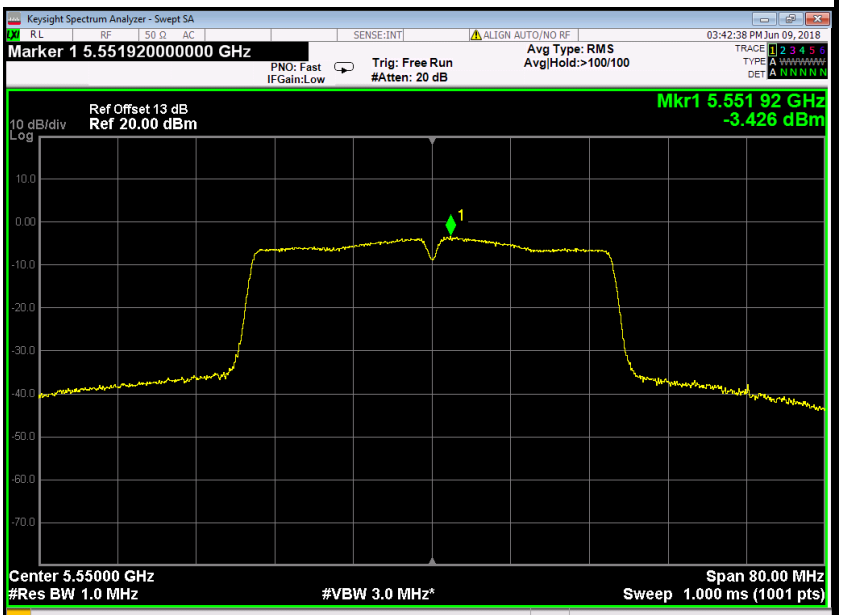
IEEE 802.11n HT 40 MHz mode / 5510~ 5670MHz

PPSD (CH Low)



PPSD (CH Mid)



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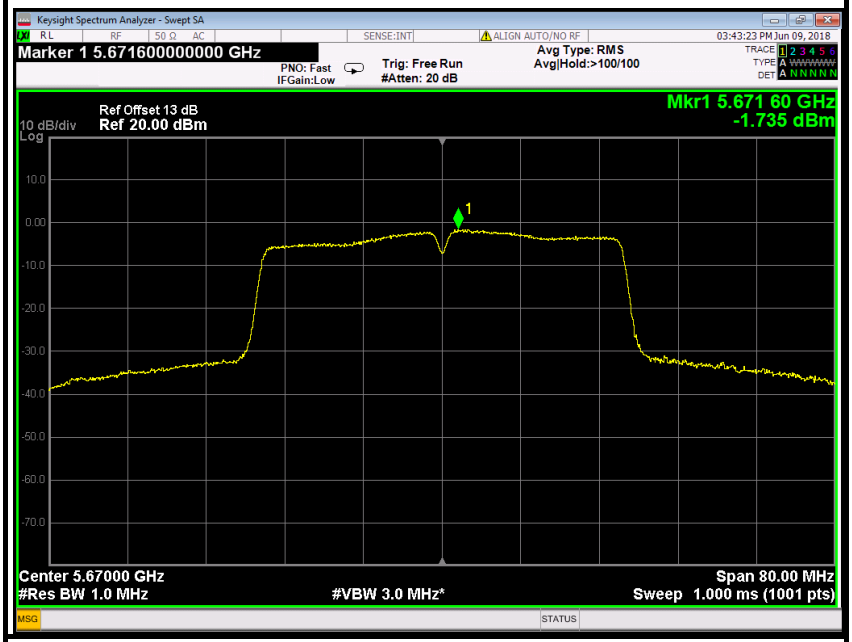
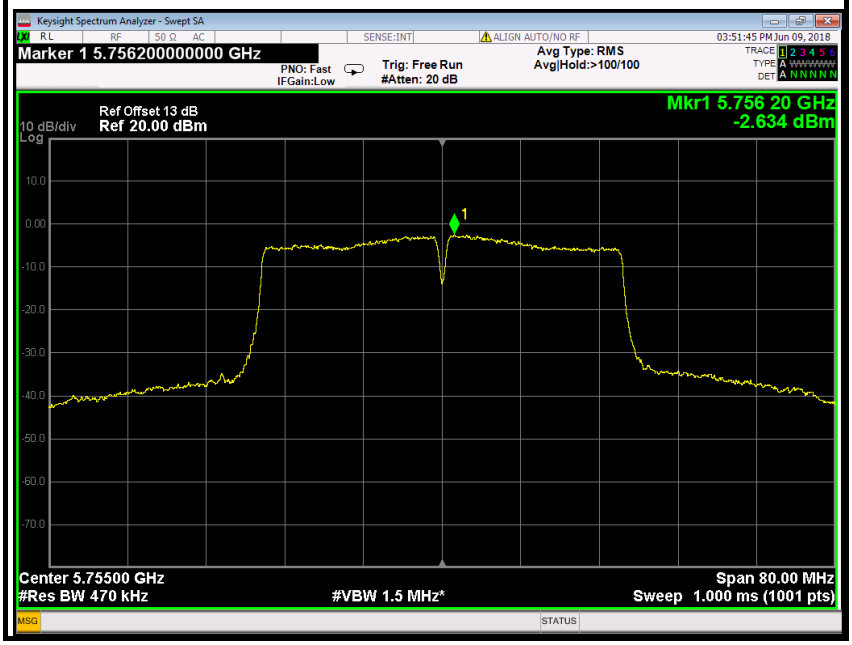
PPSD (CH High)



IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

PPSD (CH Low)



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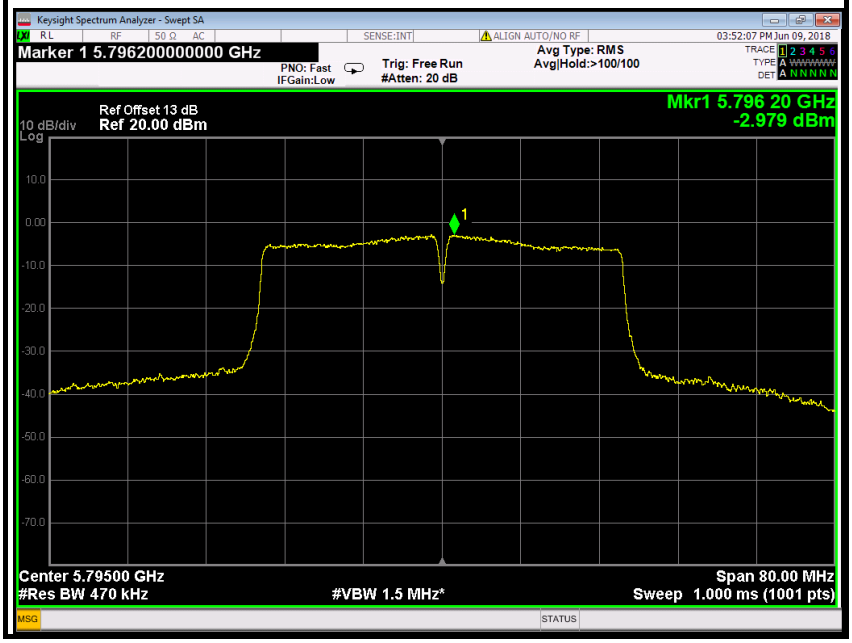
PPSD (CH High)



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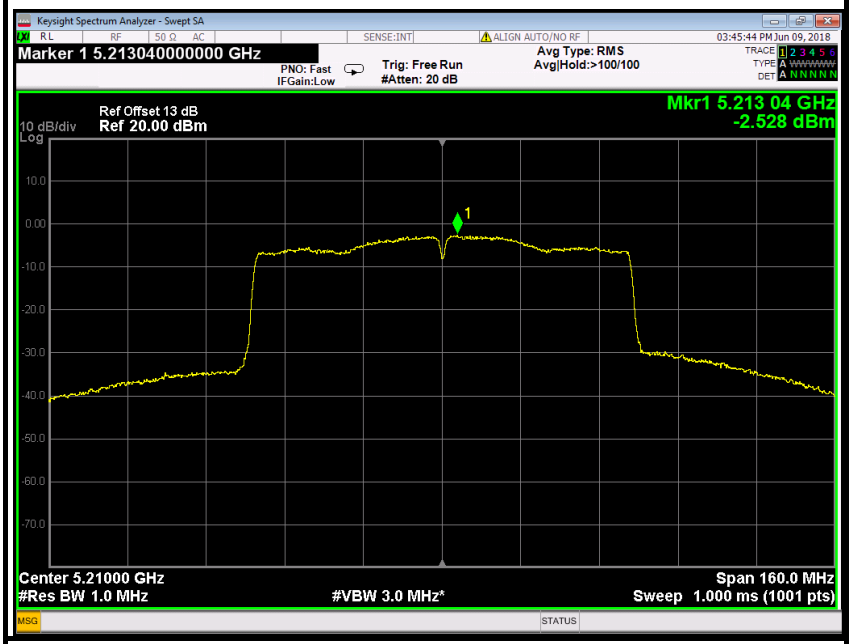
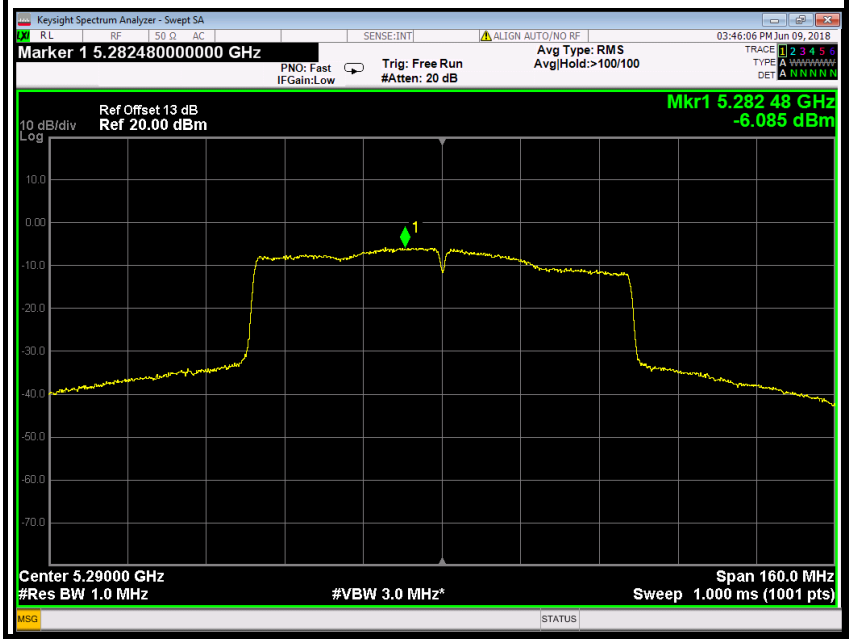
IEEE 802.11ac 80 mode / 5210MHz

PPSD



IEEE 802.11ac 80 mode / 5290MHz

PPSD



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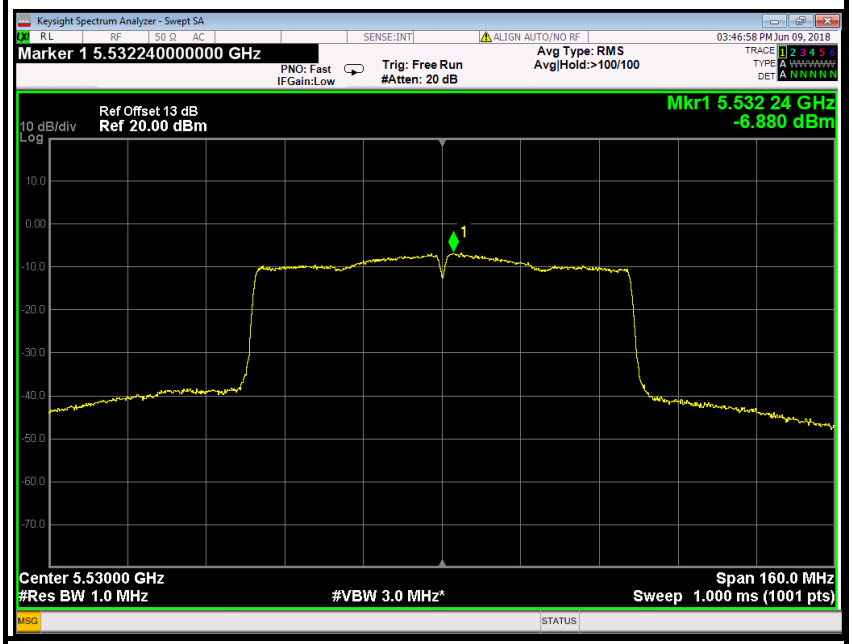
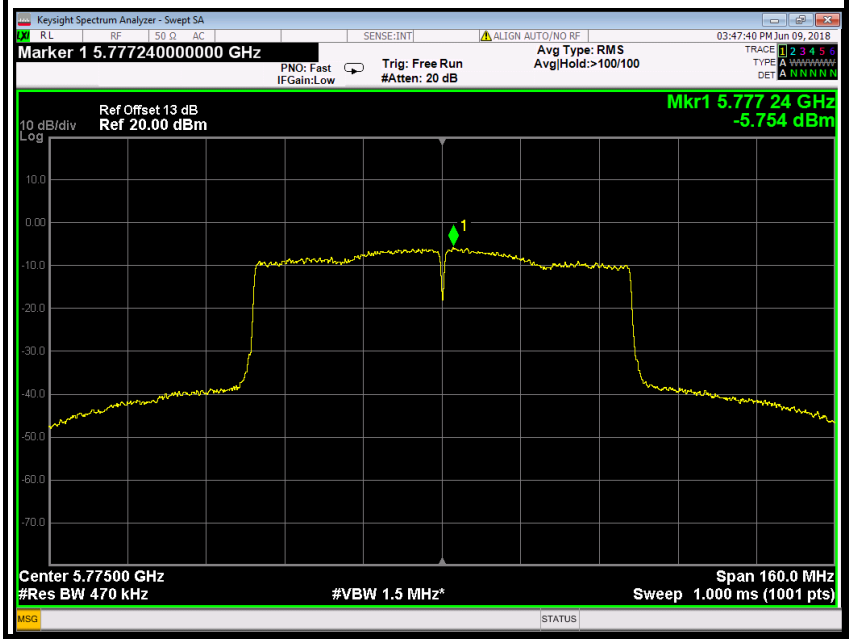
IEEE 802.11ac 80 mode / 5530MHz

PPSD



IEEE 802.11ac 80 mode / 5775MHz

PPSD



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6.7 RADIATED UNDESIABLE EMISSION

6.7.1 LIMIT

1. According to §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)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: *Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

2. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBμV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

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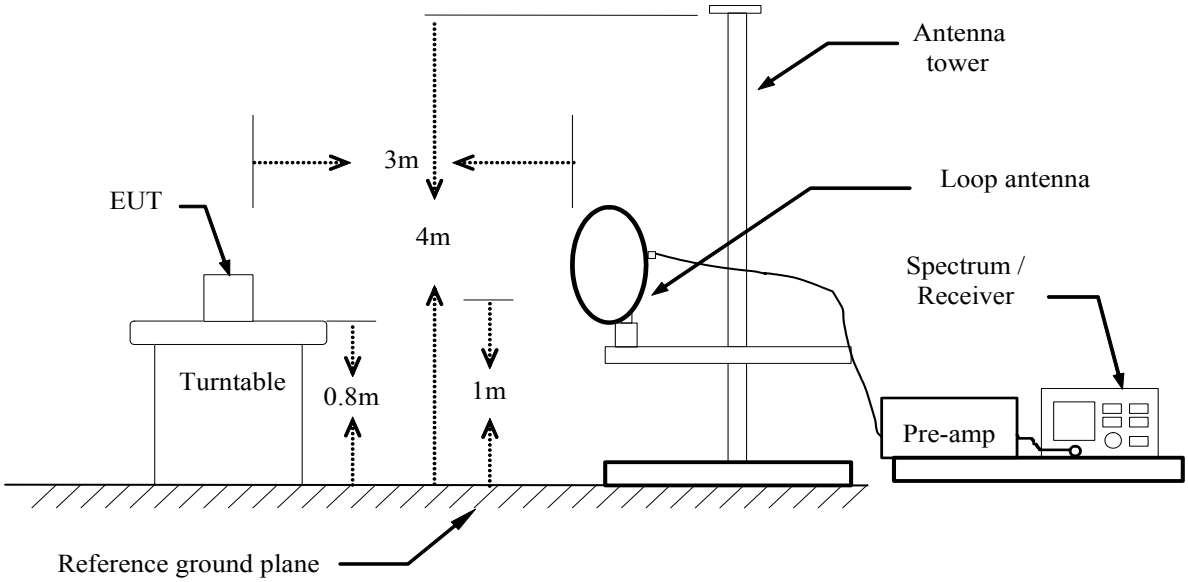
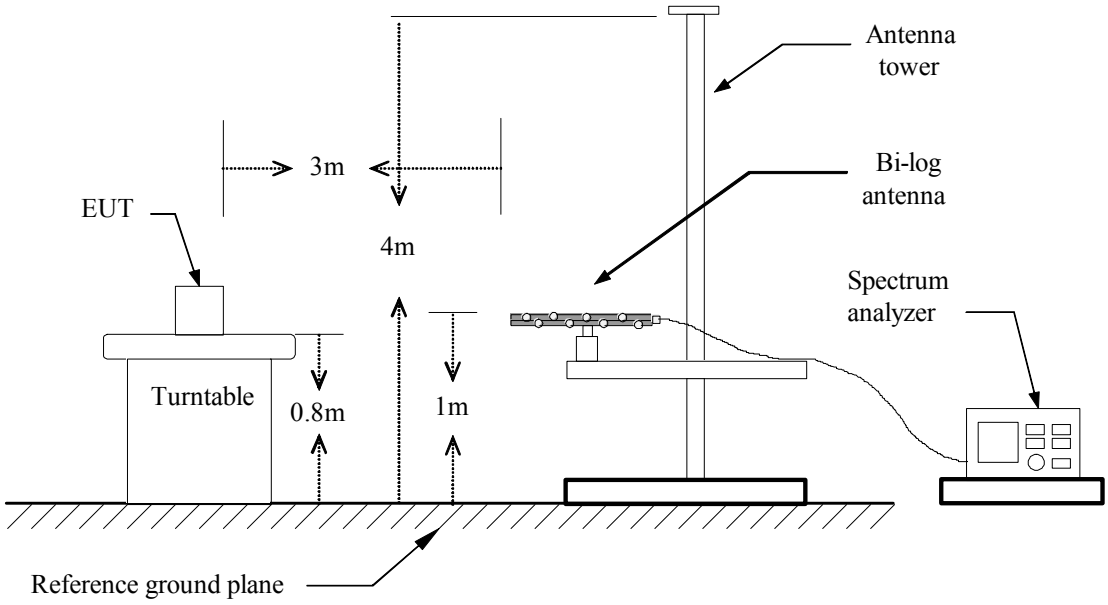
6.7.2TEST CONFIGURATION

Below 30MHz



Below 1 GHz



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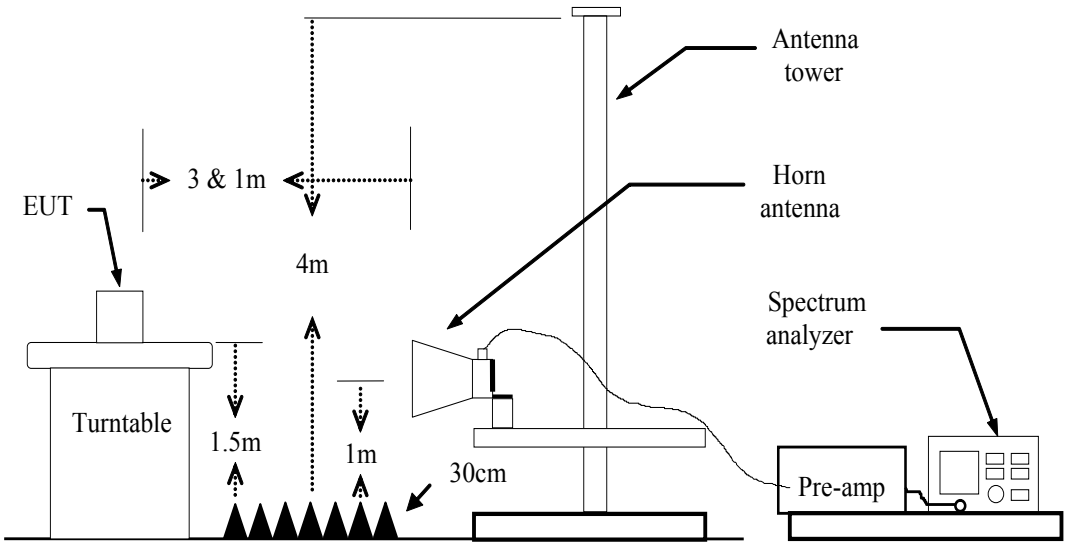
Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the TEST CONFIGURATION.

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6.7.3 MEASURING SETTING

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/T for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

6.7.4TEST PROCEDURE

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 0.8 meter.

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--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

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Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height scan range is 1 meter to 2.5 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

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Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz
Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 1 meter.

--- The EUT was set into operation.

Pre measurement:

--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

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6.7.5 DATA SAPLE

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXX.XXXX	36.37	-12.20	24.17	40.00	-15.83	V	QP

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correct Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Q.P. = Quasi-peak Reading

Above 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXXX.XXXX	62.09	-11.42	50.67	74.00	-23.33	V	Peak
XXXX.XXXX	49.78	-11.42	38.36	54.00	-15.64	V	AVG

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Peak = Peak Reading
AVG = Average Reading

Calculation Formula

Margin (dB) = Result (dBuV/m) – Limits (dBuV/m)
Result (dBuV/m) = Reading (dBuV) + Correction Factor

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6.7.6 TEST RESULTS

Below 1 GHz

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Saber Huang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
46.4900	56.10	-19.52	36.58	40.00	-3.42	V	QP
202.6600	44.22	-22.41	21.81	43.50	-21.69	V	QP
416.0600	41.30	-15.49	25.81	46.00	-20.19	V	QP
578.0500	29.33	-13.09	16.24	46.00	-29.76	V	QP
630.4300	32.16	-12.50	19.66	46.00	-26.34	V	QP
750.7100	29.58	-11.18	18.40	46.00	-27.60	V	QP
180.3500	51.09	-22.95	28.14	43.50	-15.36	H	QP
212.3600	53.69	-21.24	32.45	43.50	-11.05	H	QP
277.3500	32.86	-20.42	12.44	46.00	-33.56	H	QP
416.0600	32.40	-15.49	16.91	46.00	-29.09	H	QP
540.2200	29.01	-13.28	15.73	46.00	-30.27	H	QP
687.6600	28.49	-12.25	16.24	46.00	-29.76	H	QP

Pre-scan all mode and recorded the worst case results in this report (802.11a (Low Mid)).

Remark:

1. *No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)*
2. *Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.*
3. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).*

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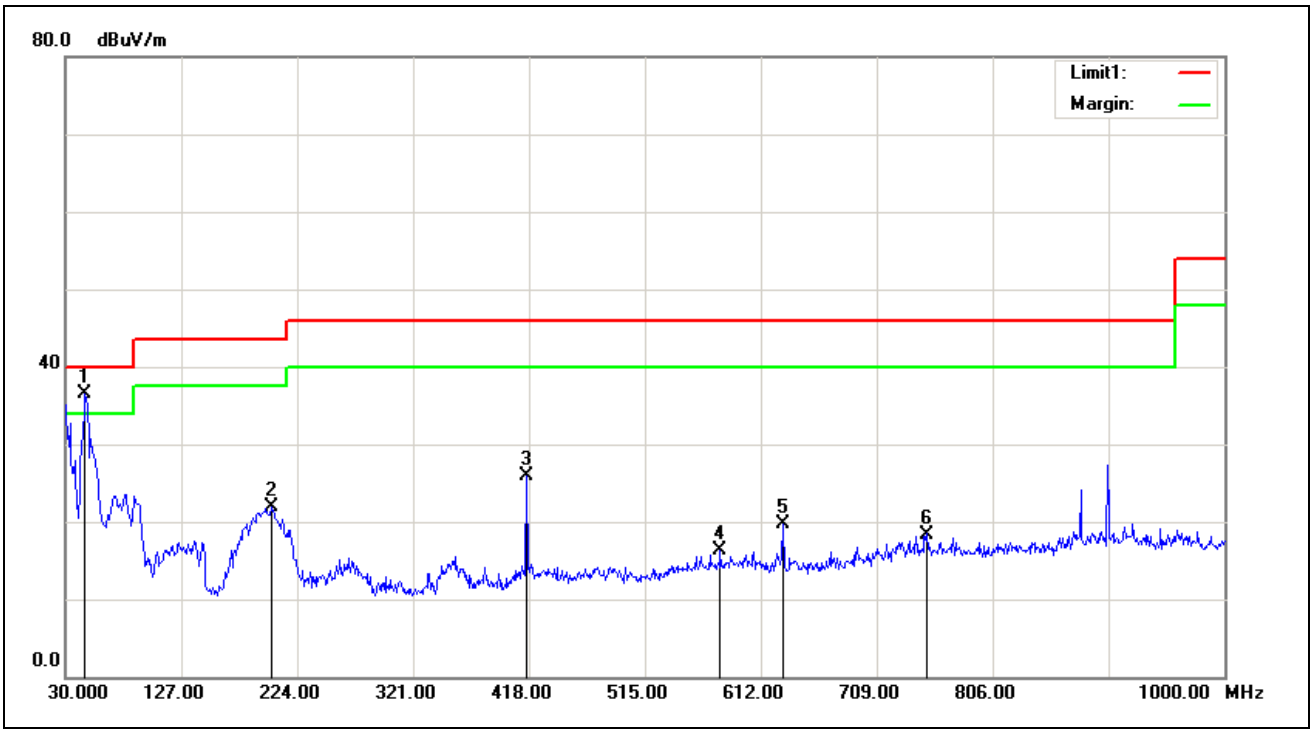
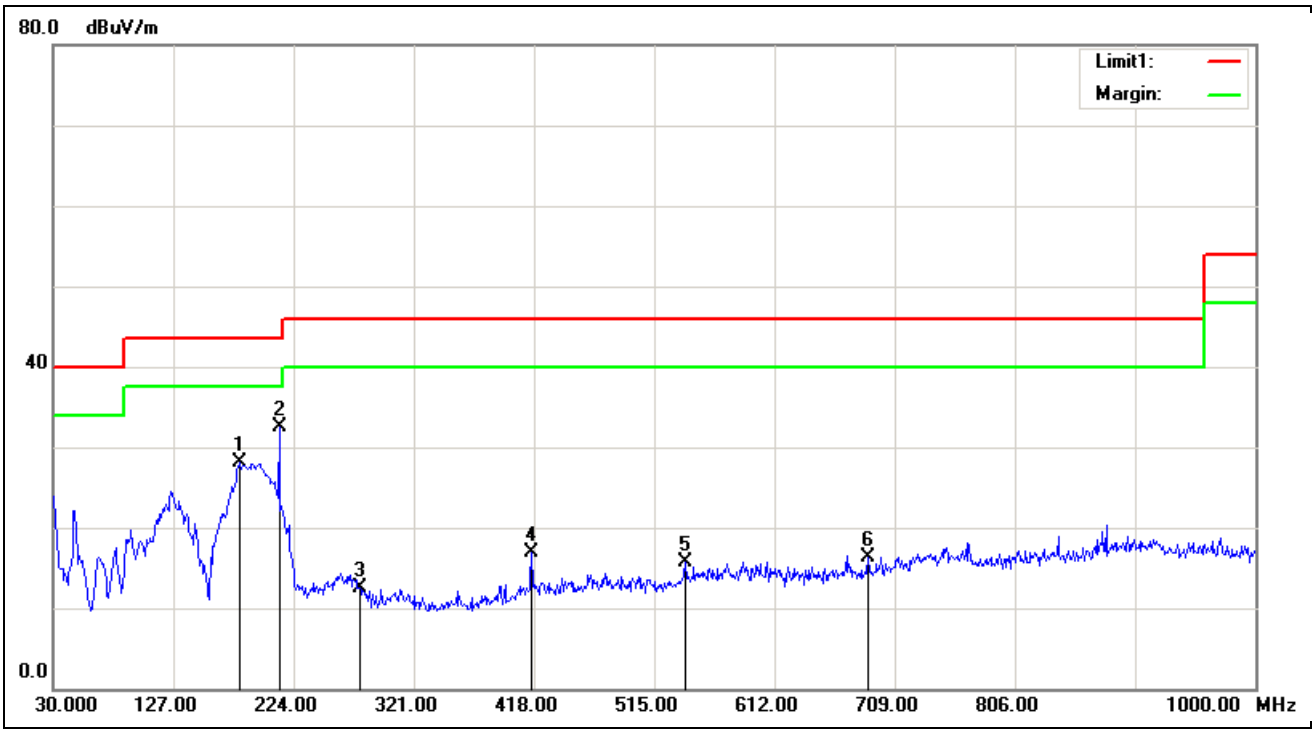
Vertical



Horizontal



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Above 1 GHz

1GHz~6GHz

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Saber Huang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1720.000	52.84	-6.44	46.40	74.00	-27.60	V	peak
1910.000	57.73	-5.57	52.16	74.00	-21.84	V	peak
1910.000	45.73	-5.57	40.16	54.00	-13.84	V	AVG
2410.000	51.53	-2.75	48.78	74.00	-25.22	V	peak
2460.000	53.05	-2.48	50.57	74.00	-23.43	V	peak
3335.000	44.21	-0.80	43.41	74.00	-30.59	V	peak
3995.000	43.02	1.57	44.59	74.00	-29.41	V	peak
2070.000	46.07	-4.62	41.45	74.00	-32.55	H	Peak
2410.000	47.50	-2.75	44.75	74.00	-29.25	H	Peak
2670.000	44.82	-1.95	42.87	74.00	-31.13	H	Peak
3170.000	52.80	-1.07	51.73	74.00	-22.27	H	peak
3655.000	43.43	0.13	43.56	74.00	-30.44	H	peak
4760.000	45.24	4.20	49.44	74.00	-24.56	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

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Above 6GHz

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Saber Huang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6876.000	32.49	7.50	39.99	74.00	-34.01	V	peak
7512.000	32.44	8.70	41.14	74.00	-32.86	V	peak
8124.000	32.36	9.58	41.94	74.00	-32.06	V	peak
9348.000	31.48	10.10	41.58	74.00	-32.42	V	peak
11160.000	31.92	15.01	46.93	74.00	-27.07	V	peak
12156.000	30.89	15.16	46.05	74.00	-27.95	V	peak
7656.000	32.76	8.98	41.74	74.00	-32.26	H	Peak
8064.000	32.37	9.61	41.98	74.00	-32.02	H	Peak
9000.000	32.38	9.10	41.48	74.00	-32.52	H	Peak
10524.000	30.57	13.60	44.17	74.00	-29.83	H	peak
11244.000	31.69	14.97	46.66	74.00	-27.34	H	peak
12588.000	30.15	16.59	46.74	74.00	-27.26	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

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Test Mode: TX / IEEE 802.11a / 5200MHz /(CH Mid) **Tested by:** Saber Huang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7536.000	31.18	8.75	39.93	74.00	-34.07	V	peak
7716.000	31.72	9.10	40.82	74.00	-33.18	V	peak
8520.000	31.90	9.36	41.26	74.00	-32.74	V	peak
8988.000	31.48	9.11	40.59	74.00	-33.41	V	peak
9864.000	30.17	11.59	41.76	74.00	-32.24	V	peak
11124.000	29.77	15.03	44.80	74.00	-29.20	V	peak
7032.000	31.72	7.76	39.48	74.00	-34.52	H	Peak
7440.000	31.87	8.56	40.43	74.00	-33.57	H	Peak
8148.000	31.47	9.57	41.04	74.00	-32.96	H	Peak
9000.000	31.69	9.10	40.79	74.00	-33.21	H	peak
10104.000	31.18	12.30	43.48	74.00	-30.52	H	peak
10728.000	30.09	14.24	44.33	74.00	-29.67	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

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Test Mode: TX / IEEE 802.11a / 5240MHz /(CH High) **Tested by:** Saber Huang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6792.000	32.30	7.36	39.66	74.00	-34.34	V	peak
7716.000	31.33	9.10	40.43	74.00	-33.57	V	peak
8028.000	31.41	9.63	41.04	74.00	-32.96	V	peak
8556.000	31.61	9.34	40.95	74.00	-33.05	V	peak
9384.000	30.78	10.21	40.99	74.00	-33.01	V	peak
9804.000	30.16	11.42	41.58	74.00	-32.42	V	peak
7272.000	32.39	8.23	40.62	74.00	-33.38	H	Peak
8112.000	32.07	9.59	41.66	74.00	-32.34	H	Peak
8640.000	30.86	9.30	40.16	74.00	-33.84	H	Peak
9780.000	29.88	11.35	41.23	74.00	-32.77	H	peak
10728.000	30.25	14.24	44.49	74.00	-29.51	H	peak
11148.000	31.47	15.01	46.48	74.00	-27.52	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

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Test Mode: TX / IEEE 802.11a / 5260MHz /(CH Low) **Tested by:** Saber Huang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7104.000	31.94	7.90	39.84	74.00	-34.16	V	peak
7716.000	31.67	9.10	40.77	74.00	-33.23	V	peak
8100.000	31.86	9.60	41.46	74.00	-32.54	V	peak
8352.000	31.64	9.46	41.10	74.00	-32.90	V	peak
9600.000	30.18	10.83	41.01	74.00	-32.99	V	peak
10320.000	30.04	12.97	43.01	74.00	-30.99	V	peak
7656.000	31.47	8.98	40.45	74.00	-33.55	H	Peak
8004.000	32.18	9.65	41.83	74.00	-32.17	H	Peak
8400.000	31.75	9.43	41.18	74.00	-32.82	H	Peak
9024.000	31.59	9.17	40.76	74.00	-33.24	H	peak
10740.000	30.36	14.27	44.63	74.00	-29.37	H	peak
11232.000	31.43	14.98	46.41	74.00	-27.59	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

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Test Mode: TX / IEEE 802.11a / 5300MHz /(CH Mid) **Tested by:** Saber Huang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6804.000	32.29	7.38	39.67	74.00	-34.33	V	peak
7716.000	32.39	9.10	41.49	74.00	-32.51	V	peak
8172.000	31.93	9.56	41.49	74.00	-32.51	V	peak
8568.000	31.26	9.34	40.60	74.00	-33.40	V	peak
9444.000	30.93	10.38	41.31	74.00	-32.69	V	peak
10488.000	30.38	13.49	43.87	74.00	-30.13	V	peak
6432.000	31.51	6.78	38.29	74.00	-35.71	H	Peak
7656.000	31.35	8.98	40.33	74.00	-33.67	H	Peak
8088.000	31.69	9.60	41.29	74.00	-32.71	H	Peak
8412.000	31.20	9.42	40.62	74.00	-33.38	H	peak
9096.000	31.35	9.38	40.73	74.00	-33.27	H	peak
10164.000	30.13	12.49	42.62	74.00	-31.38	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

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Test Mode: TX / IEEE 802.11a / 5320MHz /(CH High) **Tested by:** Saber Huang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6900.000	32.15	7.54	39.69	74.00	-34.31	V	peak
7548.000	31.88	8.77	40.65	74.00	-33.35	V	peak
7704.000	32.22	9.07	41.29	74.00	-32.71	V	peak
8316.000	32.21	9.48	41.69	74.00	-32.31	V	peak
9960.000	30.93	11.86	42.79	74.00	-31.21	V	peak
11208.000	31.69	14.99	46.68	74.00	-27.32	V	peak
7212.000	31.53	8.11	39.64	74.00	-34.36	H	Peak
7656.000	31.84	8.98	40.82	74.00	-33.18	H	Peak
8424.000	31.24	9.42	40.66	74.00	-33.34	H	Peak
9924.000	30.78	11.76	42.54	74.00	-31.46	H	peak
10788.000	30.40	14.42	44.82	74.00	-29.18	H	peak
11148.000	31.27	15.01	46.28	74.00	-27.72	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

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Test Mode: TX / IEEE 802.11a / 5500MHz /(CH Low) **Tested by:** Saber Huang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6948.000	32.00	7.62	39.62	74.00	-34.38	V	peak
7596.000	31.71	8.86	40.57	74.00	-33.43	V	peak
8016.000	31.61	9.64	41.25	74.00	-32.75	V	peak
8424.000	32.03	9.42	41.45	74.00	-32.55	V	peak
9396.000	31.21	10.24	41.45	74.00	-32.55	V	peak
11136.000	32.32	15.02	47.34	74.00	-26.66	V	peak
7752.000	31.57	9.17	40.74	74.00	-33.26	H	Peak
7968.000	32.10	9.59	41.69	74.00	-32.31	H	Peak
8568.000	31.61	9.34	40.95	74.00	-33.05	H	Peak
9480.000	31.24	10.48	41.72	74.00	-32.28	H	peak
10572.000	30.01	13.75	43.76	74.00	-30.24	H	peak
11148.000	31.15	15.01	46.16	74.00	-27.84	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

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Test Mode: TX / IEEE 802.11a / 5580MHz /(CH Mid) **Tested by:** Saber Huang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7080.000	31.44	7.86	39.30	74.00	-34.70	V	peak
7680.000	31.50	9.03	40.53	74.00	-33.47	V	peak
8160.000	31.82	9.56	41.38	74.00	-32.62	V	peak
8964.000	30.86	9.12	39.98	74.00	-34.02	V	peak
10140.000	30.07	12.41	42.48	74.00	-31.52	V	peak
11268.000	31.78	14.96	46.74	74.00	-27.26	V	peak
6816.000	31.80	7.40	39.20	74.00	-34.80	H	Peak
7380.000	31.23	8.44	39.67	74.00	-34.33	H	Peak
8088.000	32.33	9.60	41.93	74.00	-32.07	H	peak
9324.000	30.49	10.03	40.52	74.00	-33.48	H	peak
10308.000	30.35	12.93	43.28	74.00	-30.72	H	peak
11160.000	31.10	15.01	46.11	74.00	-27.89	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

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Test Mode: TX / IEEE 802.11a / 5700MHz /(CH High) **Tested by:** Saber Huang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7068.000	32.59	7.83	40.42	74.00	-33.58	V	peak
7740.000	32.13	9.14	41.27	74.00	-32.73	V	peak
8112.000	32.34	9.59	41.93	74.00	-32.07	V	peak
9432.000	31.39	10.34	41.73	74.00	-32.27	V	peak
9792.000	30.63	11.38	42.01	74.00	-31.99	V	peak
11148.000	31.91	15.01	46.92	74.00	-27.08	V	peak
6816.000	31.96	7.40	39.36	74.00	-34.64	H	Peak
7632.000	31.74	8.93	40.67	74.00	-33.33	H	Peak
8316.000	32.11	9.48	41.59	74.00	-32.41	H	Peak
8556.000	31.28	9.34	40.62	74.00	-33.38	H	peak
10152.000	30.28	12.45	42.73	74.00	-31.27	H	peak
11124.000	30.20	15.03	45.23	74.00	-28.77	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

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