U-NII-3, 802.11n HT20, Channel No.: 149

U-NII-3, 802.11n HT40, Channel No.: 151

U-NII-3, 802.11n HT20, Channel No.: 157

U-NII-3, 802.11n HT40, Channel No.: 159

U-NII-3, 802.11n HT20, Channel No.: 165

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U-NII-3, 802.11ac HT20, Channel No.: 149

U-NII-3, 802.11ac HT40, Channel No.: 151

U-NII-3, 802.11ac HT20, Channel No.: 157

U-NII-3, 802.11ac HT40, Channel No.: 159

U-NII-3, 802.11ac HT20, Channel No.: 165

U-NII-3, 802.11ac HT80, Channel No.: 155

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5.5. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.
Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.
Set the spectrum analyzer in the following:
Below 1GHz (detector: Peak and Quasi-Peak)
RBW=100kHz / VBW=300kHz / Sweep=AUTO
Above 1GHz (detector: Peak):
I) Peak emission levels are measured by setting the instrument as follows:
1) RBW = 1 MHz.
2) VBW ≥ [3 × RBW]
3) Detector = peak.
4) Sweep time = auto.
5) Trace mode = max hold.
6) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, then the time required for the trace to stabilize will increase by a factor of approximately 1 / D, where D is the duty cycle.

II) Average emission levels are measured by setting the instrument as follows:
a) RBW = 1 MHz.
b) VBW ≥ [3 × RBW].
c) Detector = RMS (power averaging), if [span / (# of points in sweep)] ≤ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

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e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the antenna is vertical.

The test is in transmitting mode.

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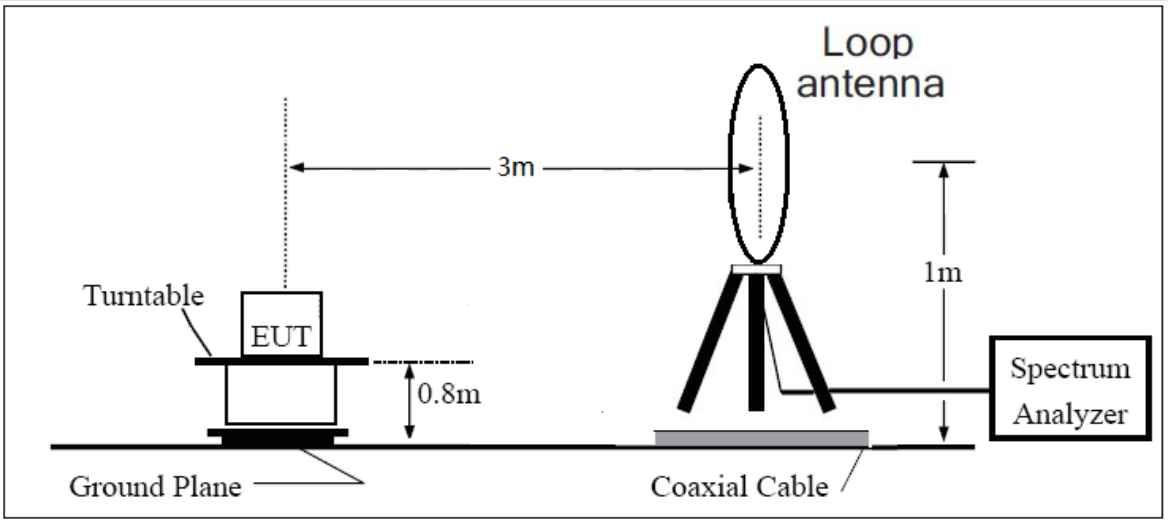
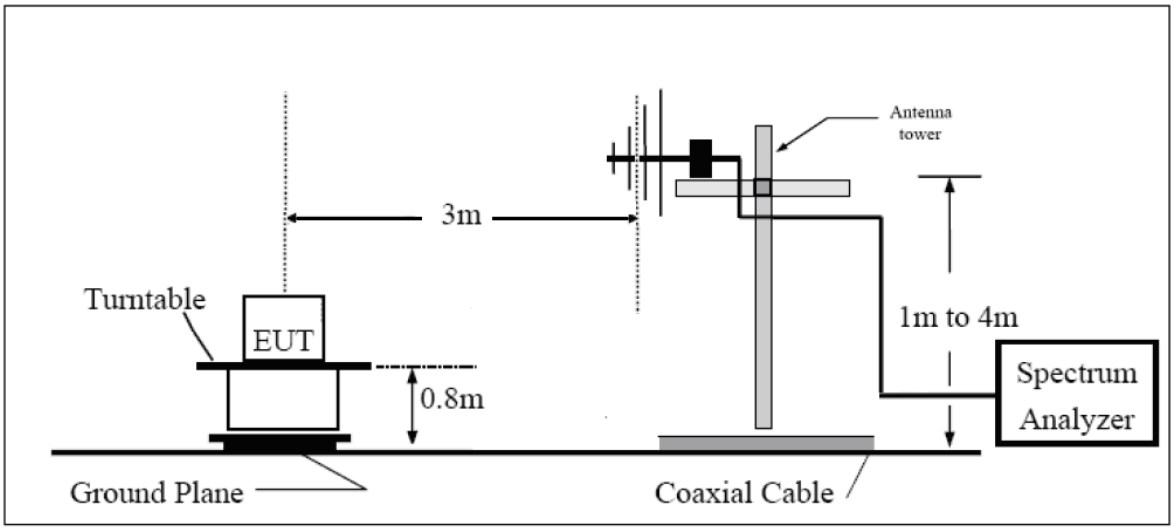
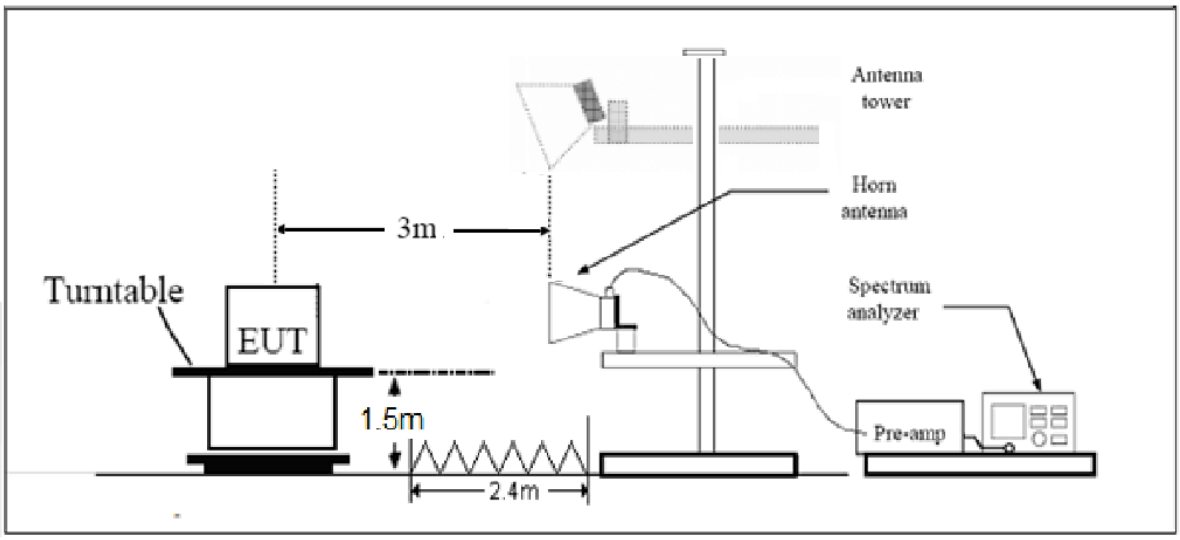
9KHz~~~30MHz



30MHz~~~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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Limits

(1) For transmitters operating in the 5725-5850 MHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) 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 e.i.r.p. of −27 dBm/MHz(68.2dBμV/m).

(3) 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 e.i.r.p. of −27 dBm/MHz(68.2dBμV/m).

(4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、E[dBμV/m] = EIRP[dBm] - 20 log(d[meters]) + 104.77, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters

(5) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

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MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor *k* = 1.96.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
1GHz-26.5G	3.68 dB
26.5G-40GHz	4.76dB

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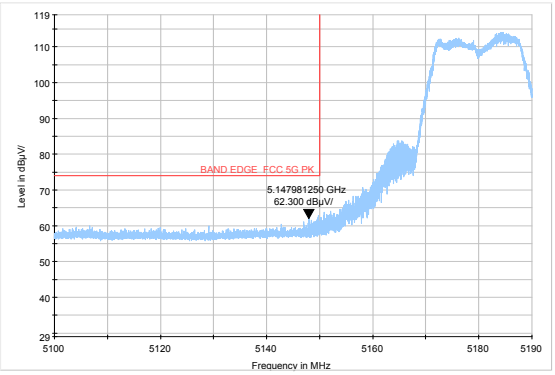
Test Results:

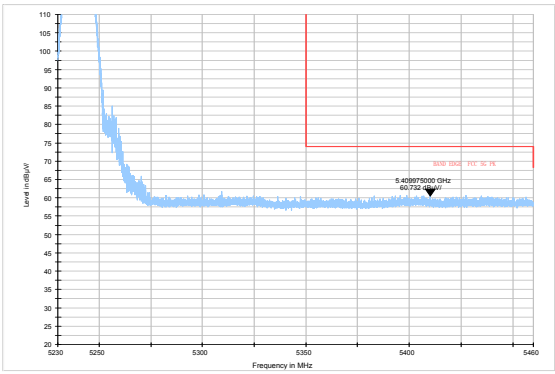
The signal beyond the limit is carrier.

U-NII-1

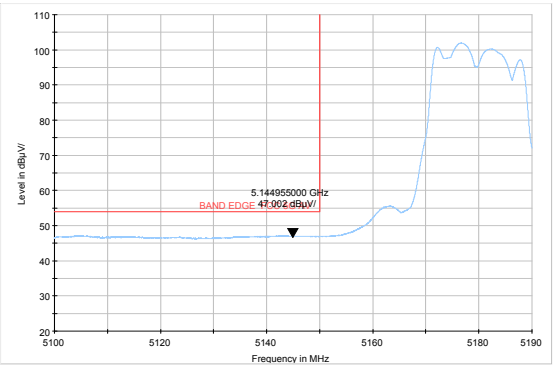
802.11a-Channel 36: Peak



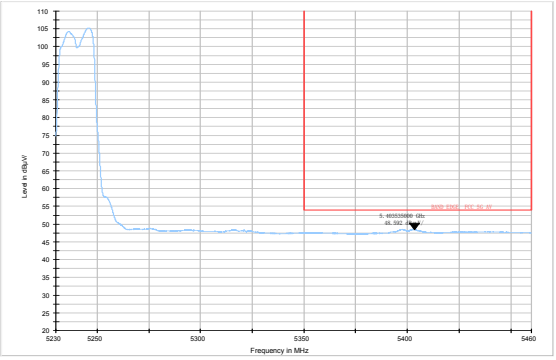
802.11a-Channel 48: Peak



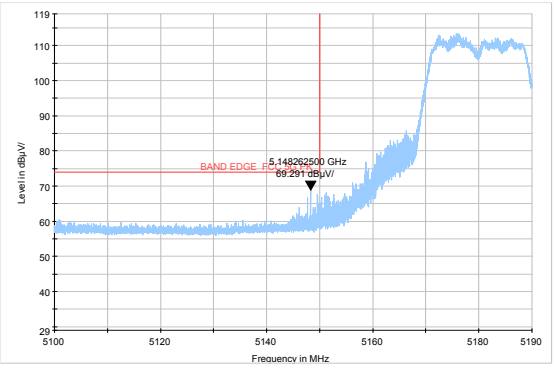
802.11a-Channel 36: Average



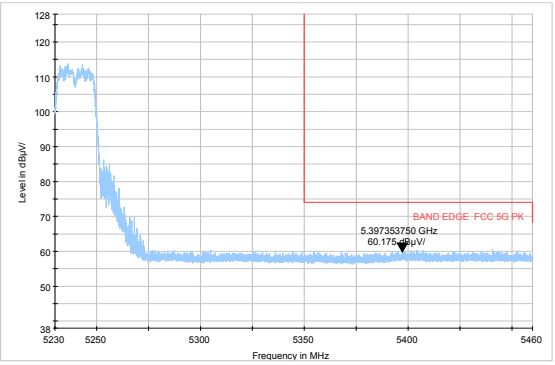
802.11a-Channel 48: Average



802.11n HT20-Channel 36: Peak



802.11n HT20-Channel 48: Peak



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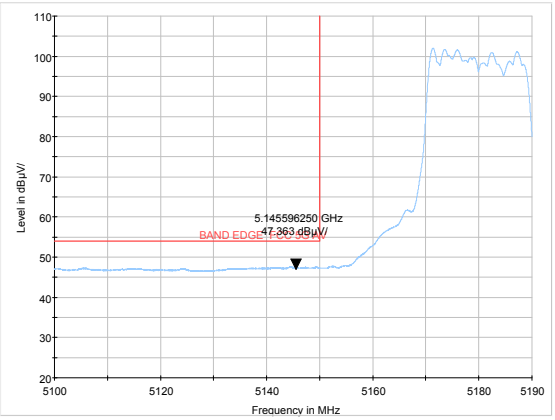
802.11n HT20-Channel 36: Average



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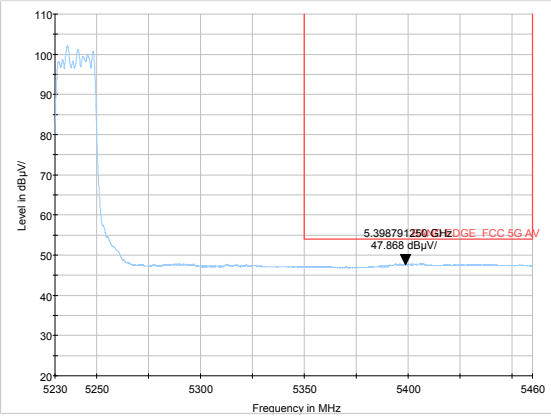
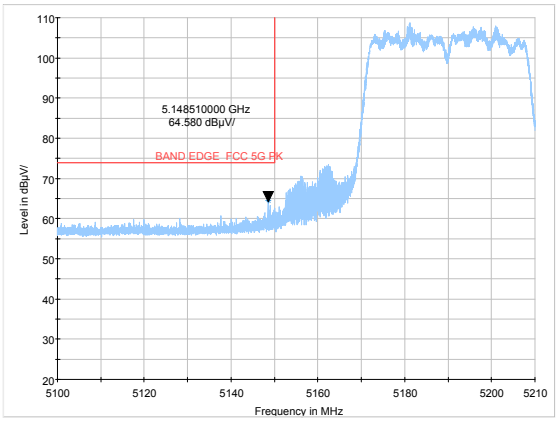
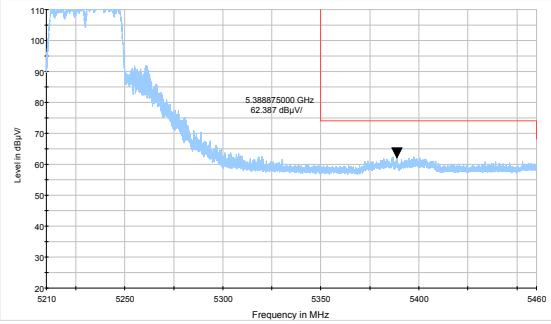


802.11n HT40-Channel 38: Peak



802.11n HT40-Channel 46: Peak



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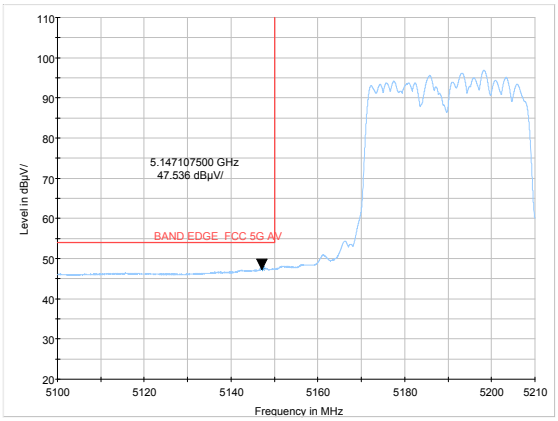

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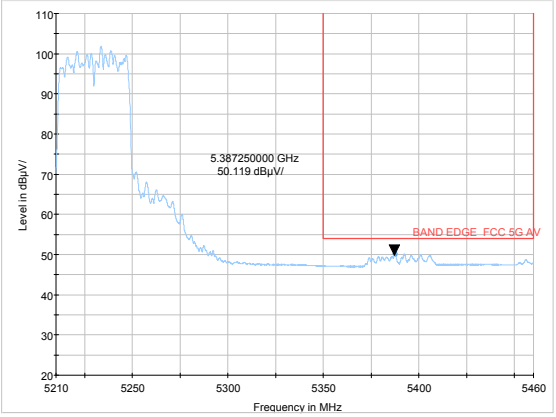

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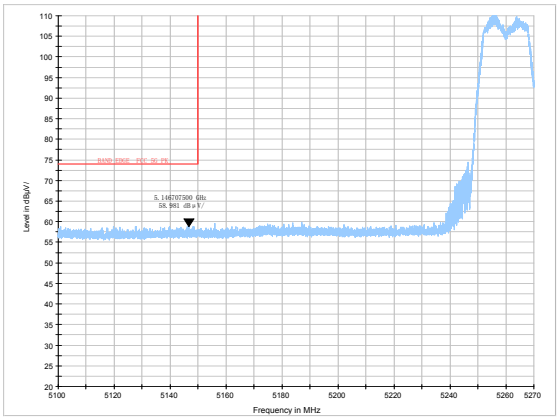
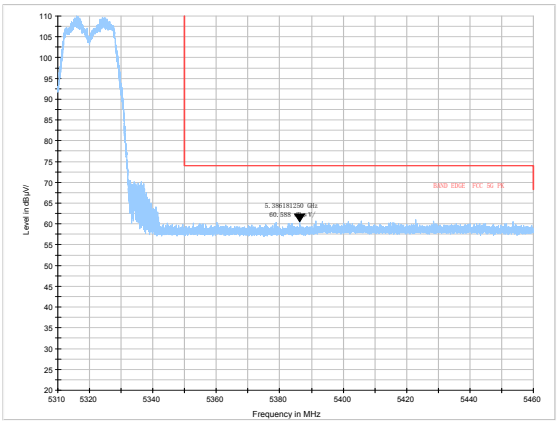
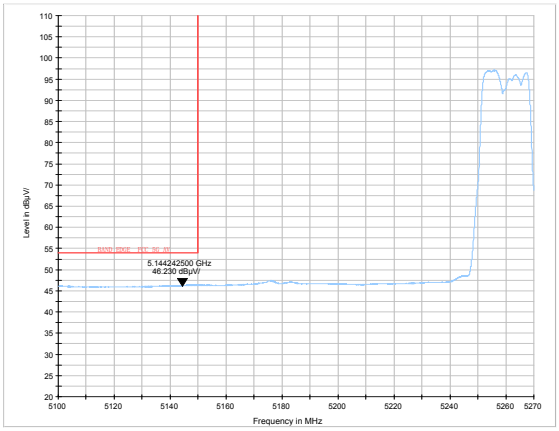
802.11a-Channel 52: Peak



802.11a-Channel 64: Peak



802.11a-Channel 52: Average



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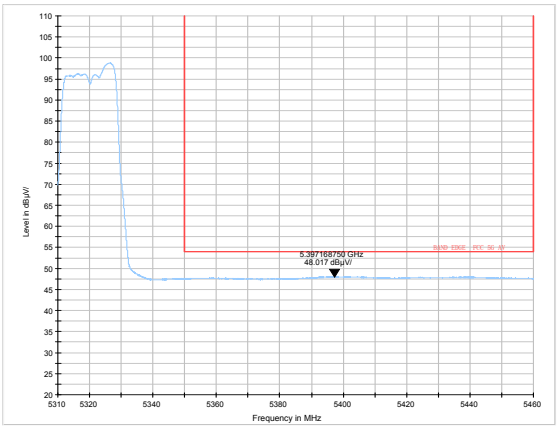
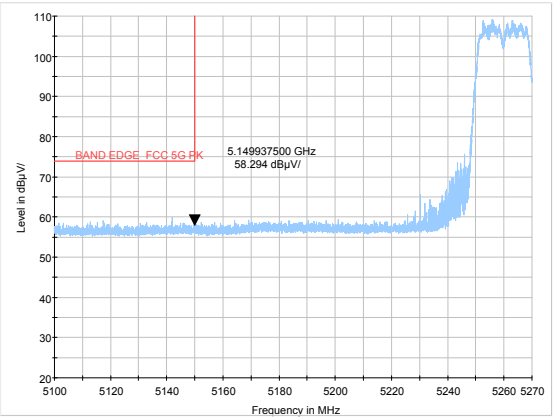


802.11n HT20-Channel 52: Peak



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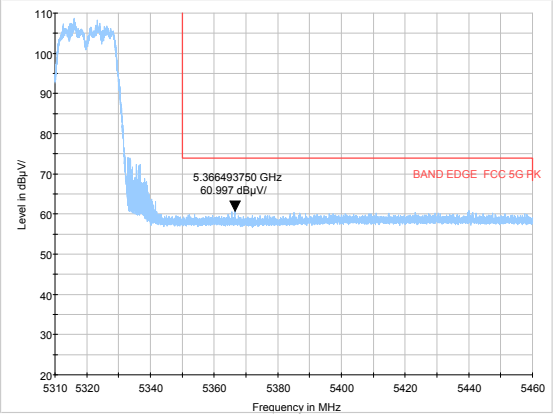

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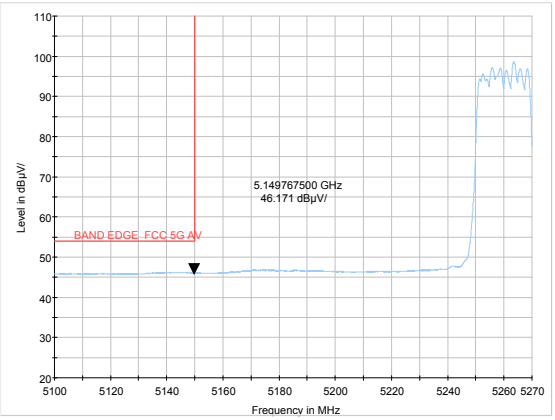
802.11n HT20-Channel 52: Average



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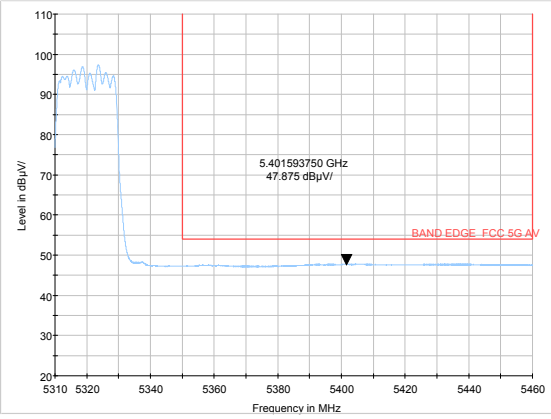
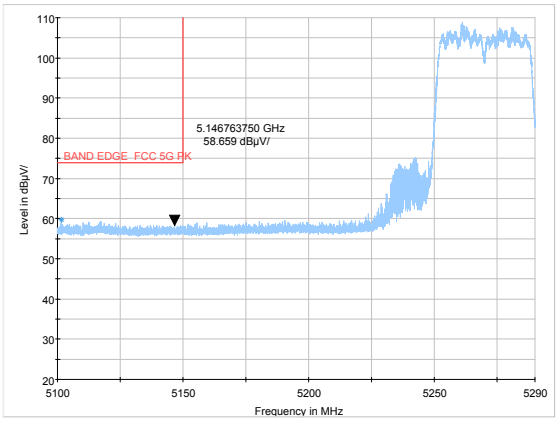
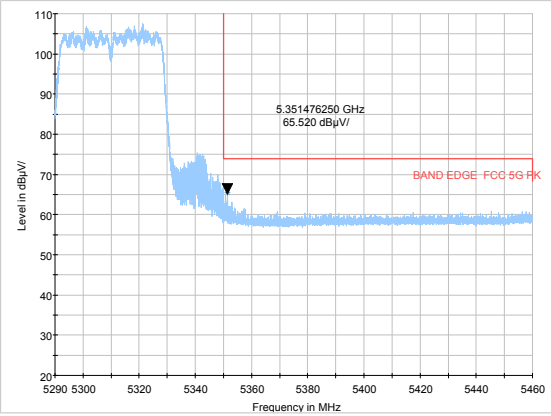


802.11n HT40-Channel 54: Peak



802.11n HT40-Channel 62: Peak



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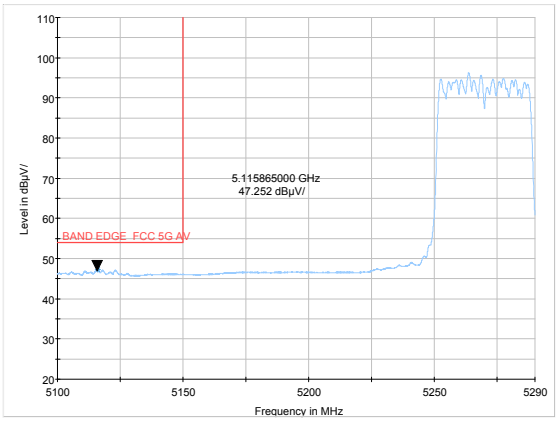

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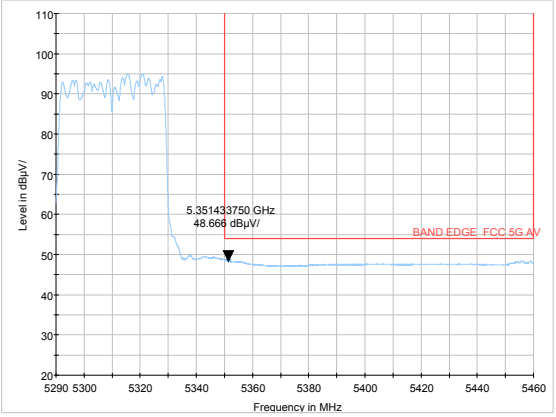

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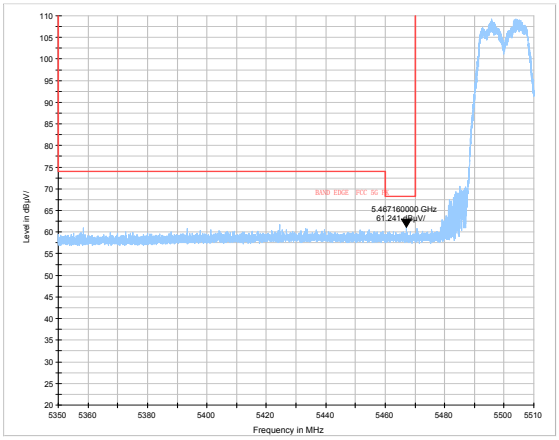
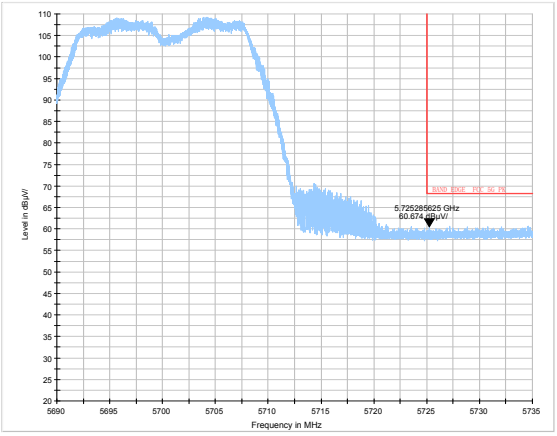
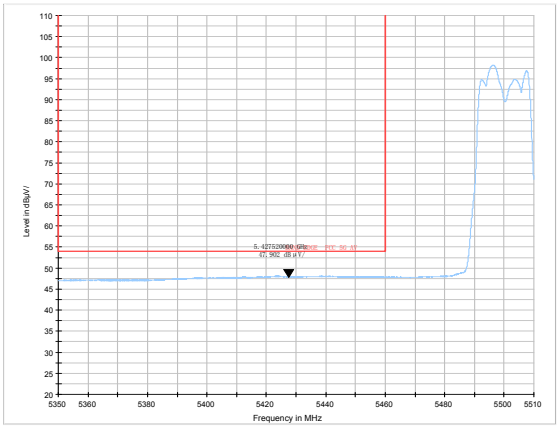
802.11a-Channel 100: Peak



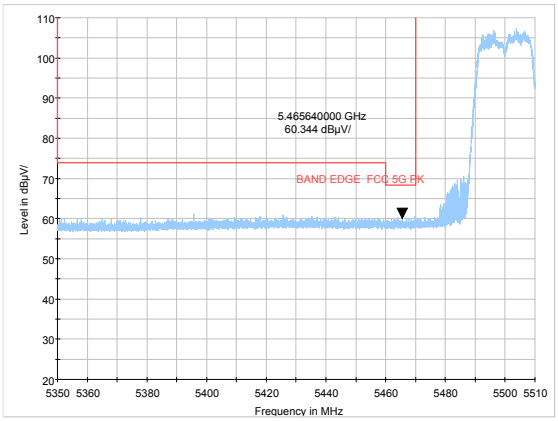
802.11a-Channel 140: Peak



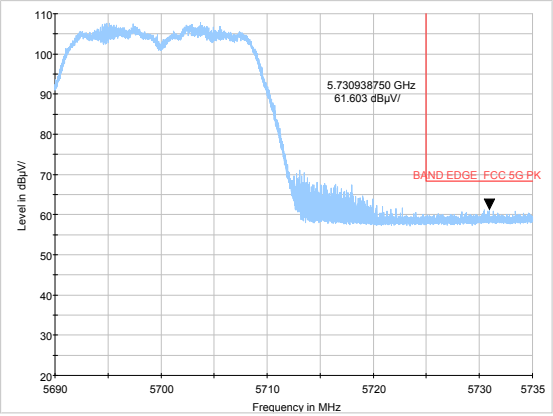
802.11a-Channel 100: Average



802.11n HT20-Channel 100: Peak



802.11n HT20-Channel 140: Peak



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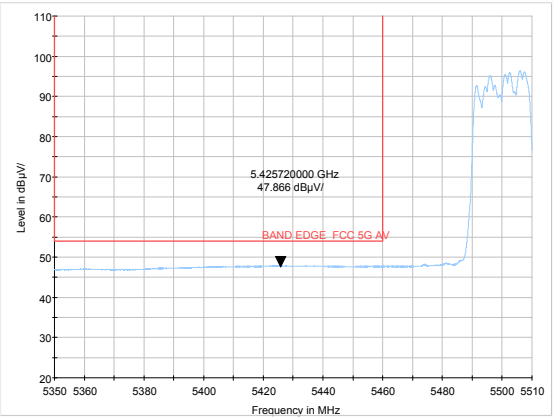
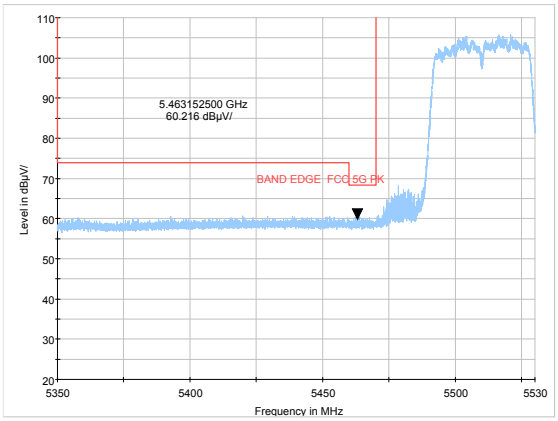
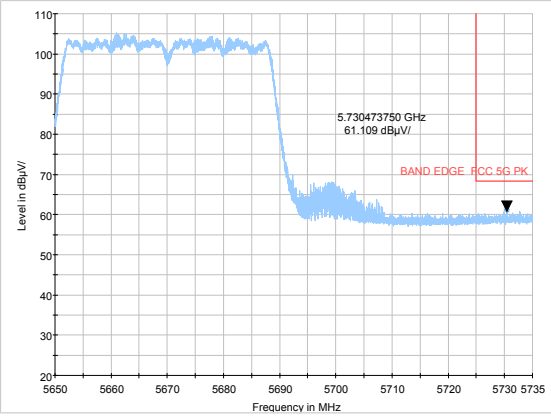
802.11n HT20-Channel 100: Average



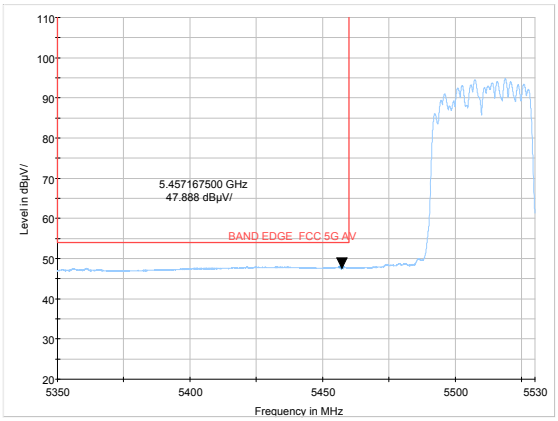
802.11n HT40-Channel 102: Peak



802.11n HT40-Channel 134: Peak



802.11n HT40-Channel 102: Average



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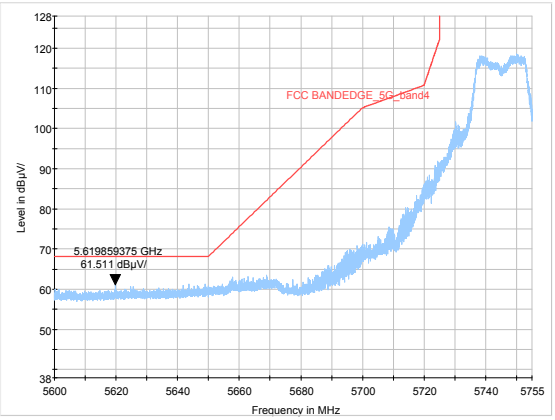
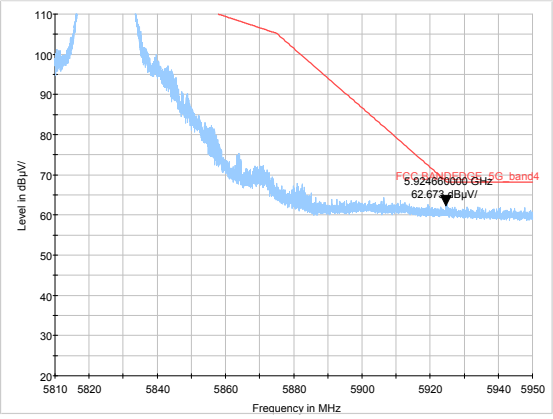
U-NII-3

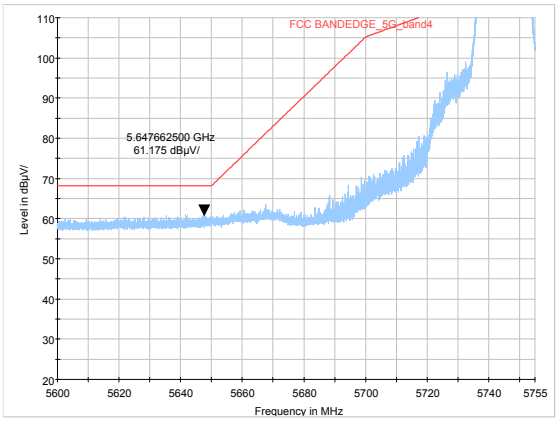
802.11a-Channel 149: Peak



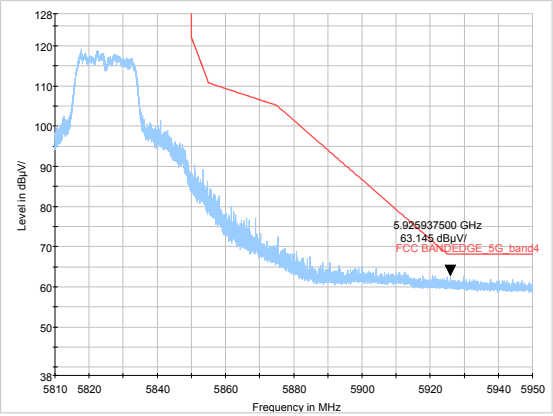
802.11a-Channel 165: Peak



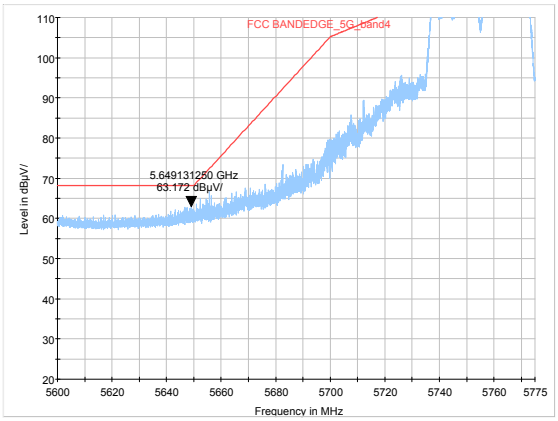
802.11n HT20-Channel 149: Peak



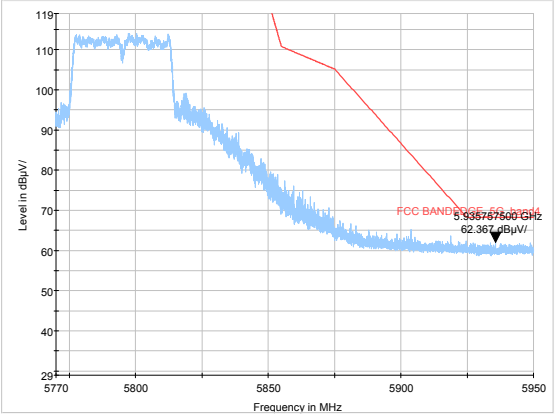
802.11n HT20-Channel 165: Peak



802.11n HT40-Channel 151: Peak



802.11n HT40-Channel 159: Peak



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Result of RE

Test result

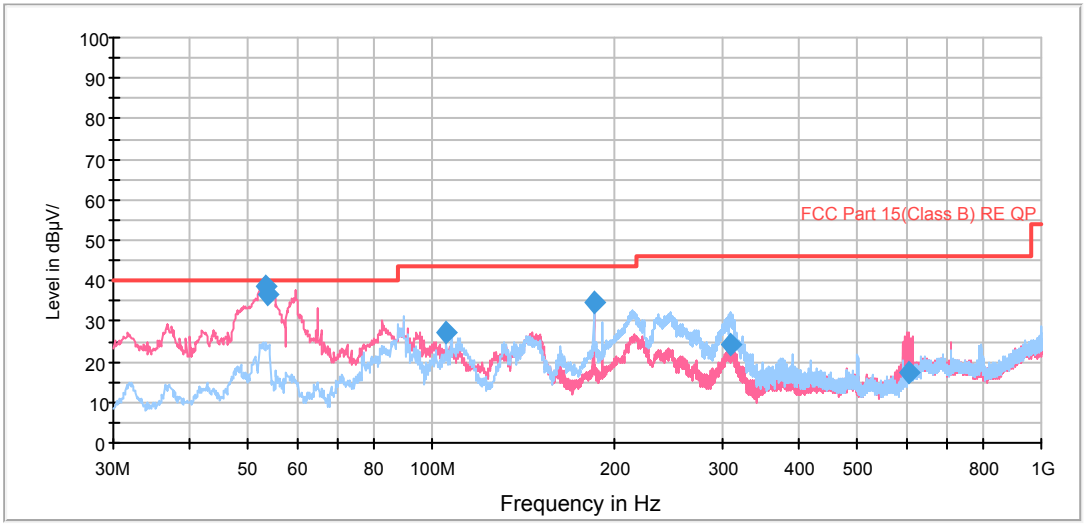
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, and 9KHz-30MHz, the emissions more than 20 dB below the permissible value are not reported.

After the pre test, Antenna 1 was selected as the worst antenna.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11a (HT40), Channel 110 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Continuous TX mode:

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Reading value (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
53.346800	38.5	58.1	125.0	V	15.0	-19.6	1.5	40.0
53.872481	36.8	56.6	175.0	V	0.0	-19.8	3.2	40.0
105.715850	27.1	51.8	225.0	H	274.0	-24.7	16.4	43.5
184.249425	34.8	61.5	195.0	H	252.0	-26.7	8.7	43.5
310.038000	24.3	46.4	100.0	H	300.0	-22.1	21.7	46.0
606.438000	17.5	34.9	100.0	V	0.0	-17.4	28.5	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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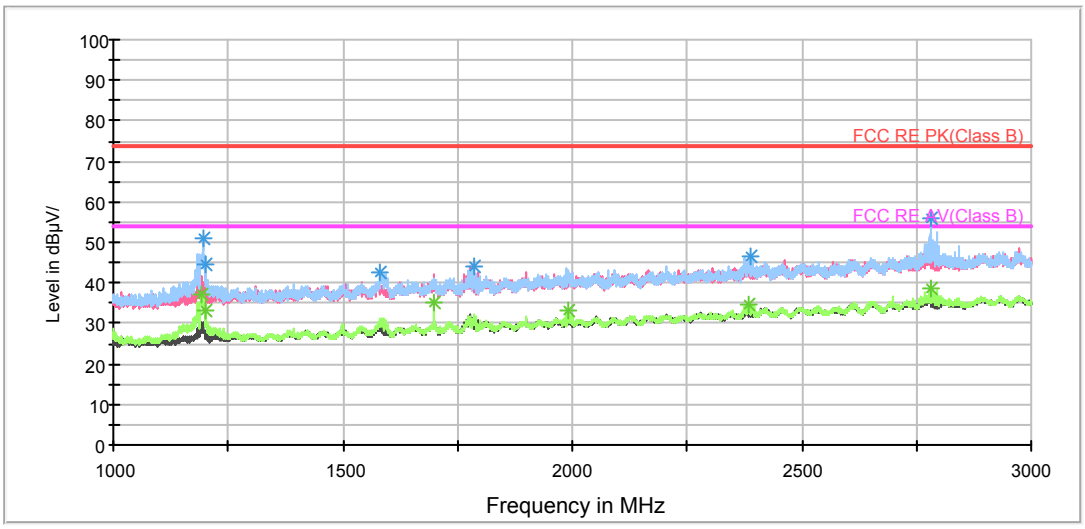
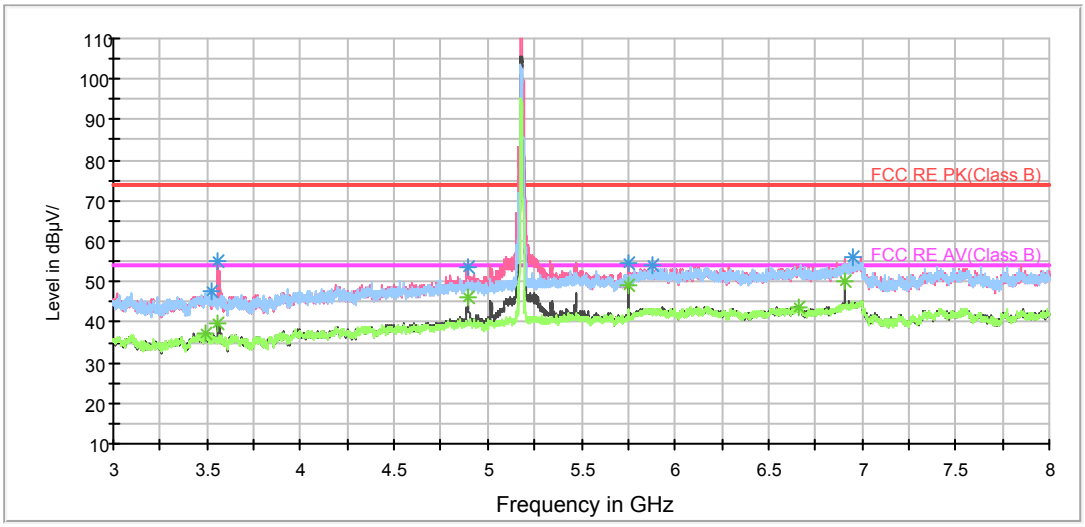
802.11a CH36

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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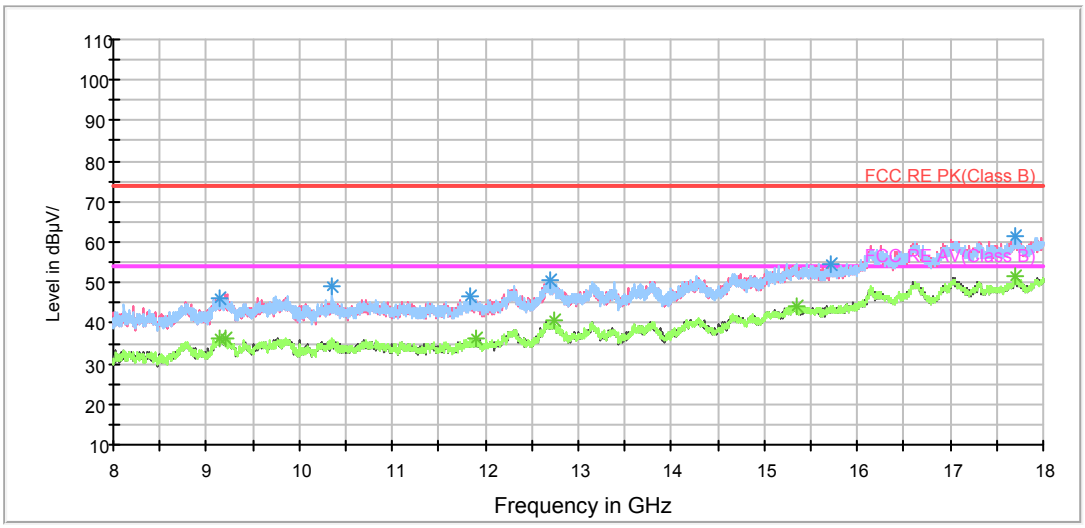
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3528.750000	47.4	200.0	V	237.0	39.5	7.9	26.6	74
3558.125000	54.8	200.0	V	77.0	46.9	7.9	19.2	74
4895.625000	53.5	200.0	V	257.0	41.6	11.9	20.5	74
5755.625000	54.6	200.0	V	325.0	41.0	13.6	19.4	74
5880.000000	54.1	200.0	V	107.0	39.2	14.9	19.9	74
6951.875000	56.1	200.0	V	137.0	39.9	16.2	17.9	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3493.750000	37.2	200.0	V	315.0	29.3	7.9	16.8	54
3558.125000	39.6	200.0	V	77.0	31.7	7.9	14.4	54
4892.500000	46.3	200.0	V	227.0	34.4	11.9	7.7	54
5755.625000	48.9	200.0	V	325.0	35.3	13.6	5.1	54
6658.125000	43.9	200.0	V	295.0	28.4	15.5	10.1	54
6906.875000	50.1	200.0	V	334.0	33.8	16.3	3.9	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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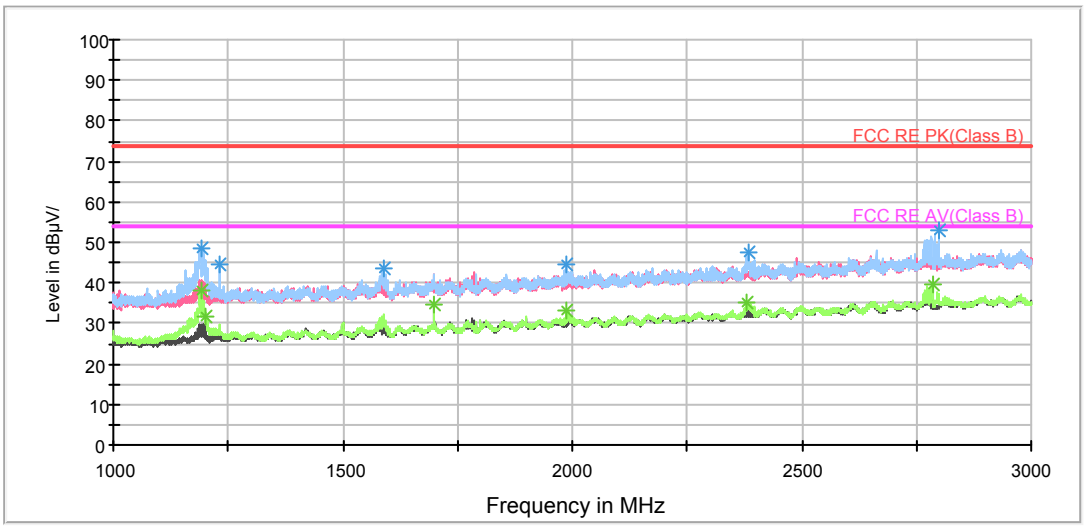
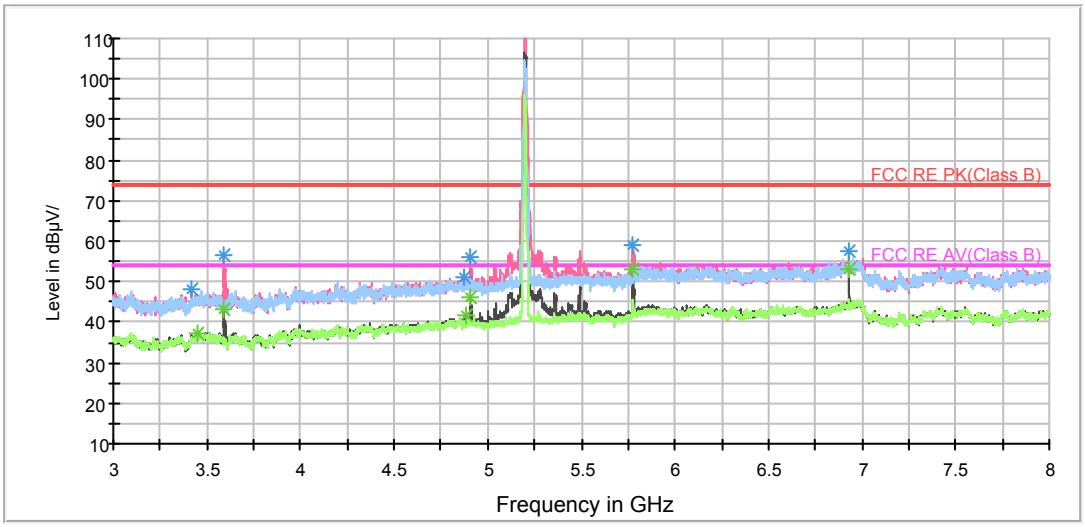
802.11a CH40

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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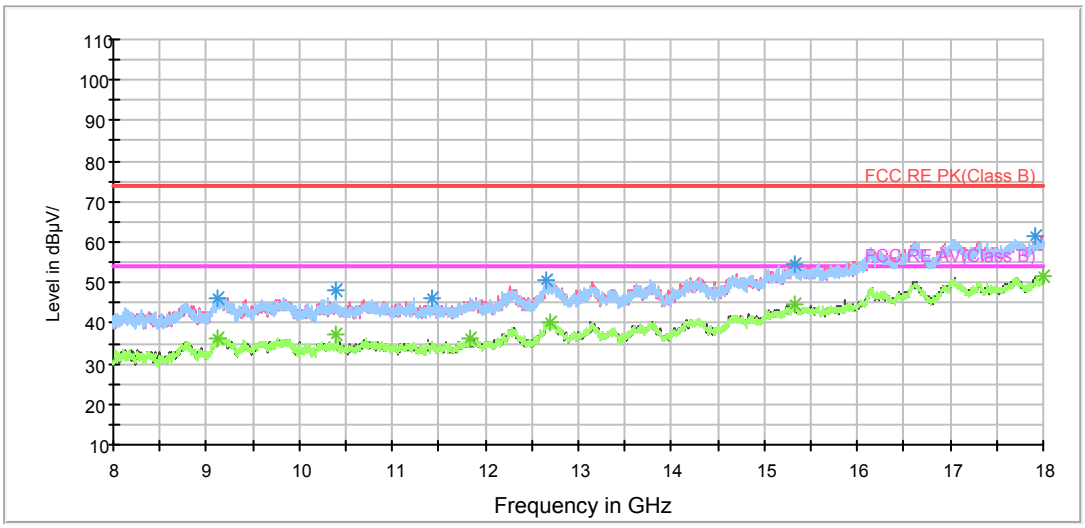
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3420.000000	47.9	200.0	V	96.0	40.5	7.4	26.1	74
3593.125000	56.3	200.0	V	79.0	48.6	7.7	17.7	74
4870.625000	51.1	200.0	H	120.0	39.3	11.8	22.9	74
4906.875000	55.9	200.0	V	56.0	44.0	11.9	18.1	74
5778.125000	59.1	200.0	V	267.0	45.2	13.9	14.9	74
6933.750000	57.4	200.0	V	339.0	41.2	16.2	16.6	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3444.375000	37.3	200.0	H	120.0	29.6	7.7	16.7	54
3593.125000	43.3	200.0	V	79.0	35.6	7.7	10.7	54
4885.000000	41.5	200.0	V	339.0	29.6	11.9	12.5	54
4904.375000	45.9	200.0	V	247.0	34.0	11.9	8.1	54
5778.125000	53.2	200.0	V	267.0	39.3	13.9	0.8	54
6933.750000	53.0	200.0	V	339.0	36.8	16.2	1.0	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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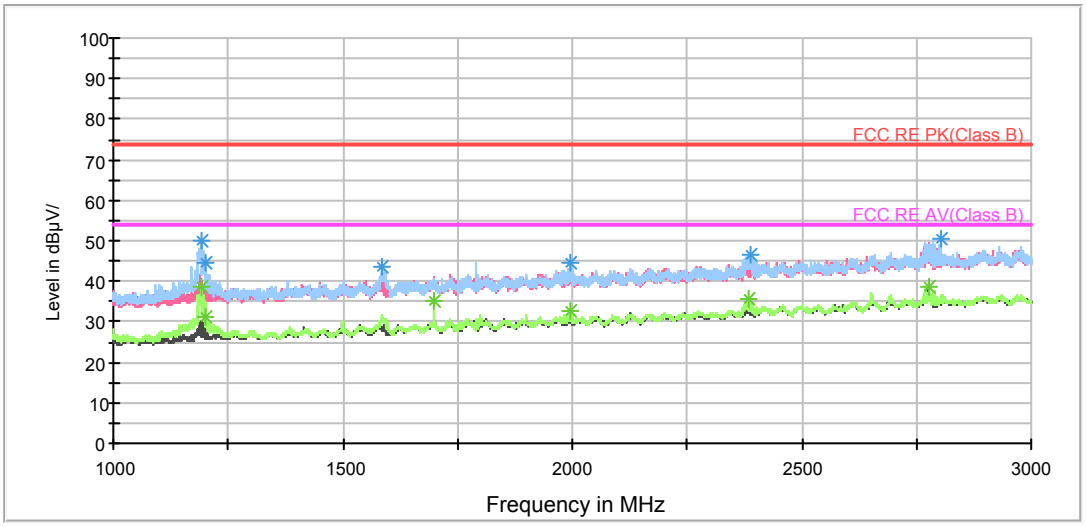
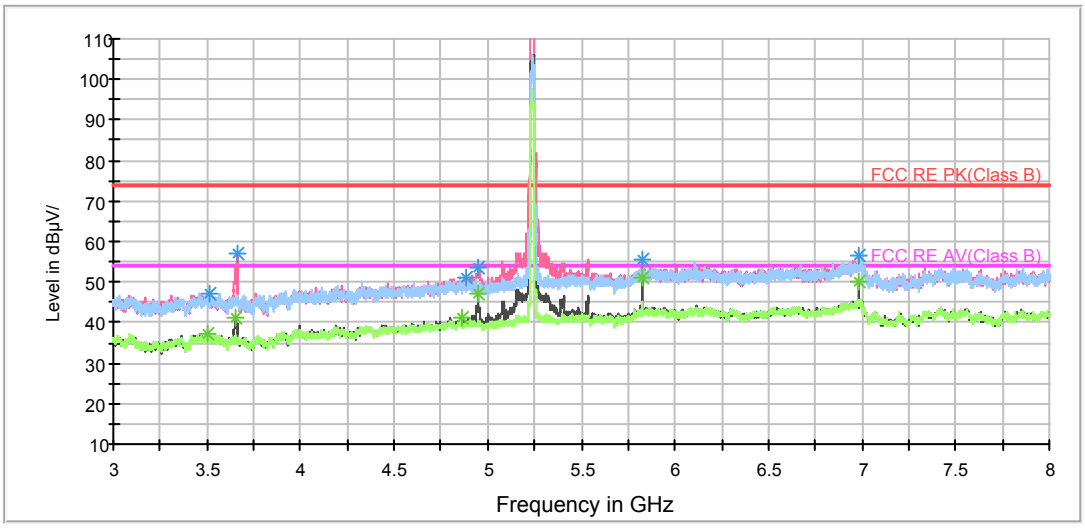
802.11a CH48

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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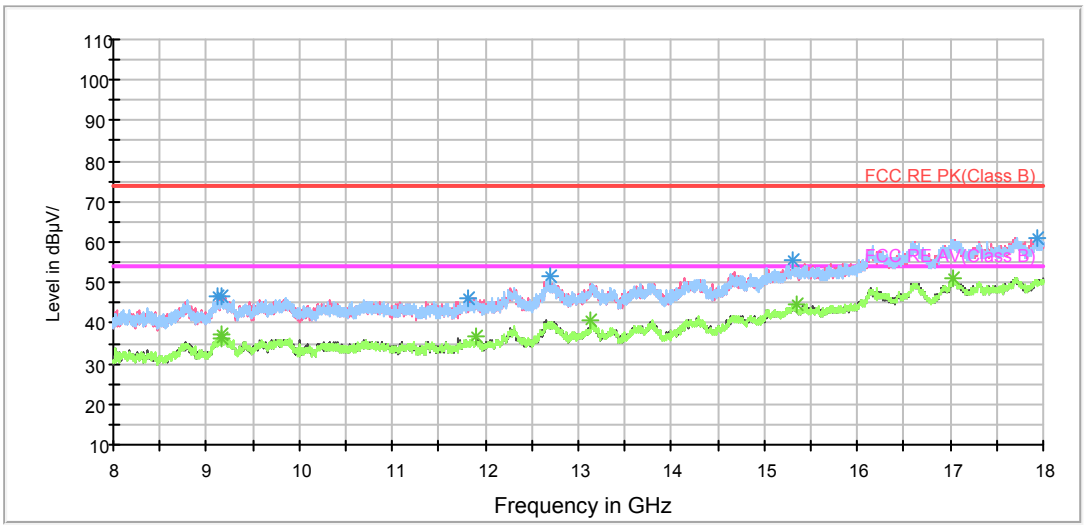
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3515.000000	47.1	200.0	V	229.0	39.1	8.0	26.9	74
3658.750000	56.9	200.0	V	318.0	48.8	8.1	17.1	74
4887.500000	50.9	200.0	V	240.0	39.0	11.9	23.1	74
4948.750000	53.3	200.0	V	259.0	41.5	11.8	20.7	74
5821.875000	55.6	200.0	V	279.0	41.1	14.5	18.4	74
6986.875000	56.6	200.0	V	338.0	40.2	16.4	17.4	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3507.500000	37.3	200.0	V	59.0	29.3	8.0	16.7	54
3653.125000	41.4	200.0	V	84.0	33.3	8.1	12.6	54
4858.125000	41.2	200.0	V	240.0	29.5	11.7	12.8	54
4948.750000	46.9	200.0	V	259.0	35.1	11.8	7.1	54
5822.500000	51.1	200.0	V	279.0	36.6	14.5	2.9	54
6986.875000	50.2	200.0	V	338.0	33.8	16.4	3.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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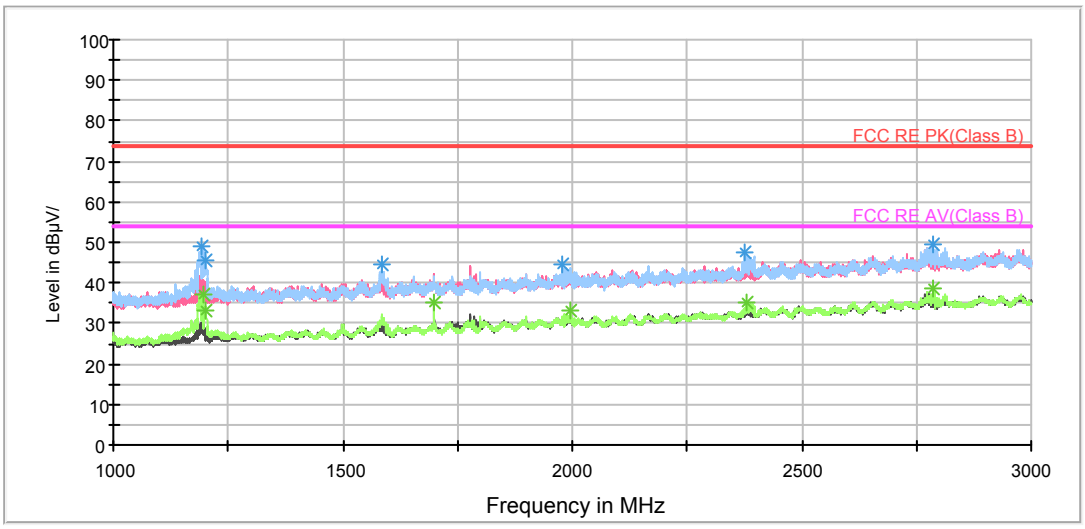
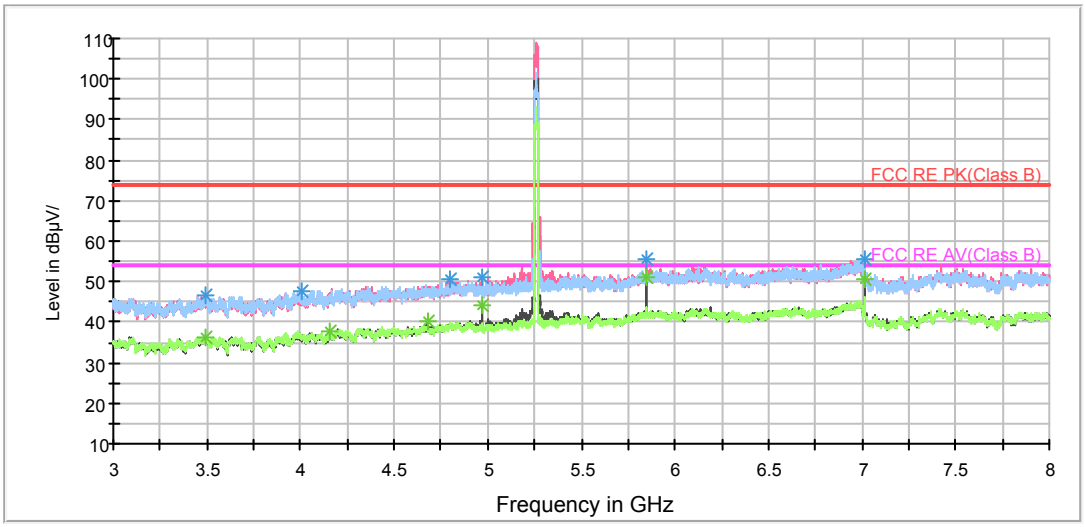
802.11a CH52

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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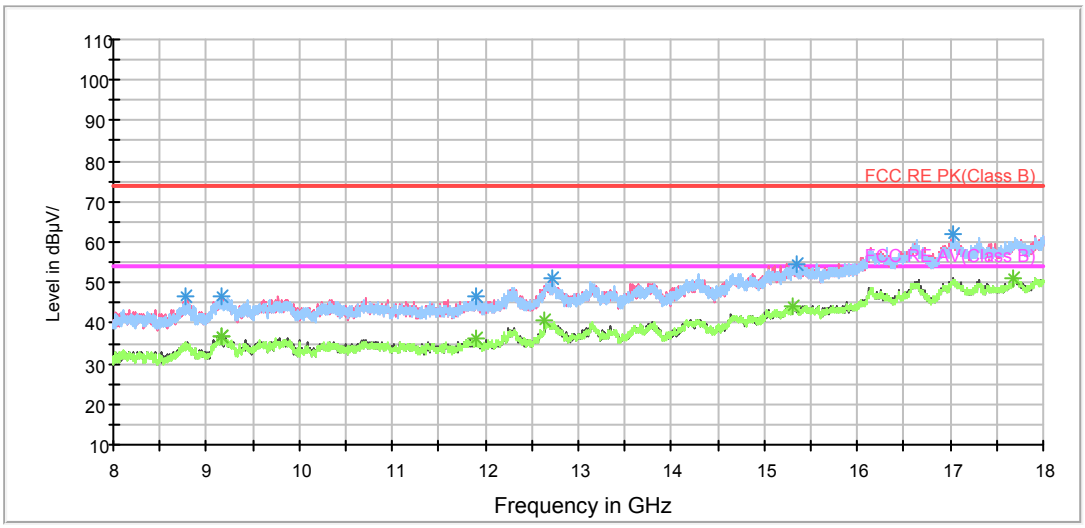
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3490.625000	46.5	200.0	H	174.0	38.6	7.9	27.5	74
4009.375000	47.5	200.0	H	57.0	38.6	8.9	26.5	74
4795.625000	50.8	200.0	H	185.0	39.6	11.2	23.2	74
4968.125000	51.2	200.0	V	0.0	39.5	11.7	22.8	74
5844.375000	55.4	200.0	V	95.0	40.8	14.6	18.6	74
7013.750000	55.7	200.0	V	54.0	39.2	16.5	18.3	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3491.250000	36.3	200.0	V	320.0	28.4	7.9	17.7	54
4156.875000	37.7	200.0	H	246.0	27.8	9.9	16.3	54
4675.625000	40.1	200.0	V	223.0	29.3	10.8	13.9	54
4967.500000	44.3	200.0	V	358.0	32.5	11.8	9.7	54
5844.375000	50.8	200.0	V	95.0	36.2	14.6	3.2	54
7013.750000	50.8	200.0	V	54.0	34.3	16.5	3.2	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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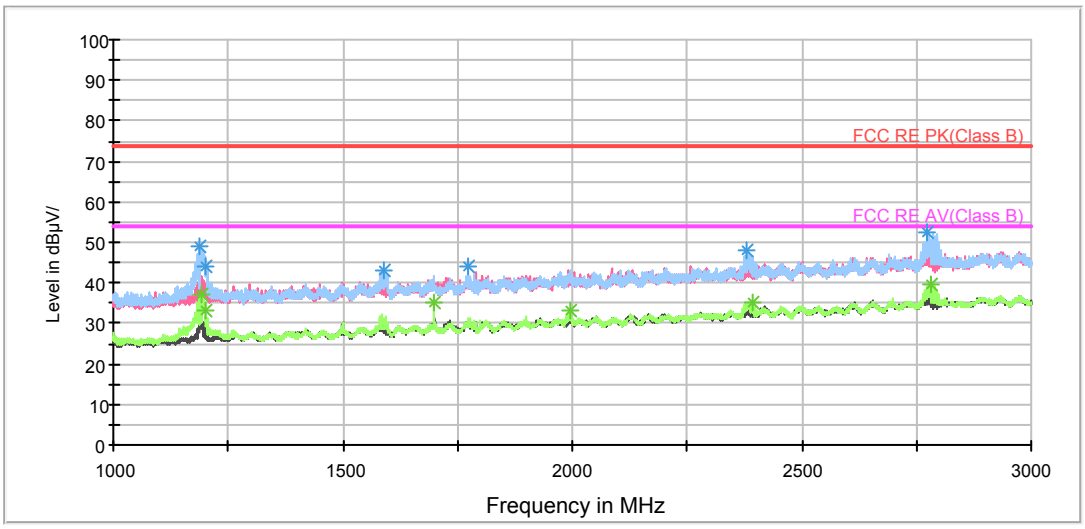
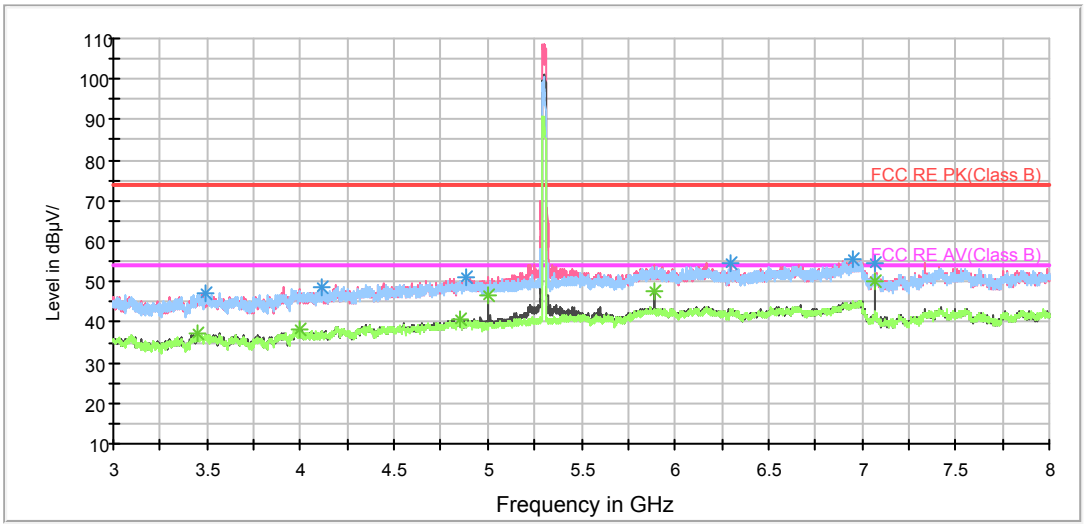
802.11a CH60

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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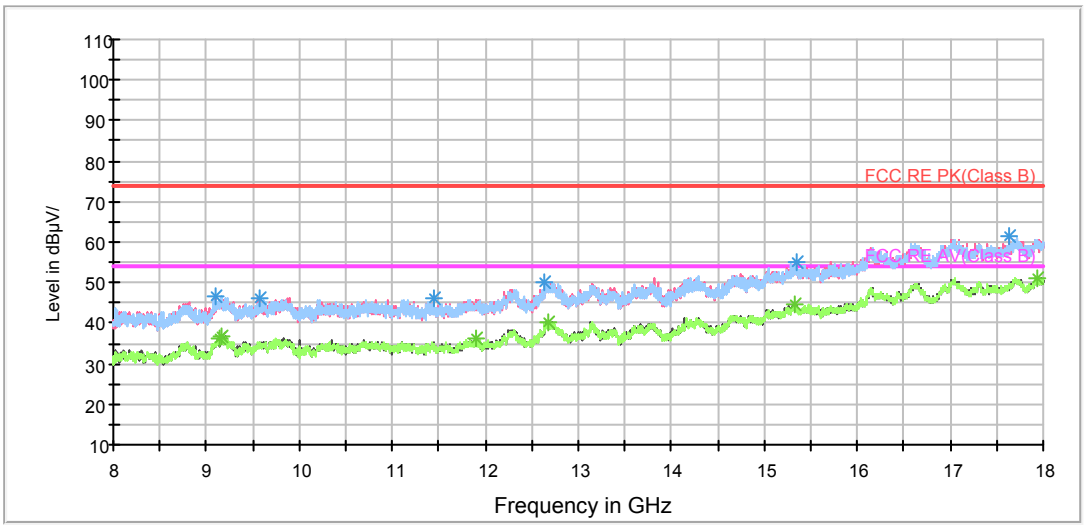
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3493.125000	47.1	200.0	V	147.0	39.2	7.9	26.9	74
4118.750000	48.5	200.0	V	98.0	39.0	9.5	25.5	74
4889.375000	51.0	200.0	H	0.0	39.1	11.9	23.0	74
6302.500000	54.6	200.0	V	256.0	39.2	15.4	19.4	74
6955.625000	55.6	200.0	H	204.0	39.4	16.2	18.4	74
7066.875000	54.5	200.0	V	334.0	38.3	16.2	19.5	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3447.500000	37.0	200.0	V	187.0	29.2	7.8	17.0	54
4000.000000	38.4	200.0	V	156.0	29.5	8.9	15.6	54
4853.125000	40.8	200.0	V	217.0	29.2	11.6	13.2	54
5005.625000	46.7	200.0	V	176.0	35.1	11.6	7.3	54
5888.750000	47.5	200.0	V	315.0	32.6	14.9	6.5	54
7066.875000	50.2	200.0	V	334.0	34.0	16.2	3.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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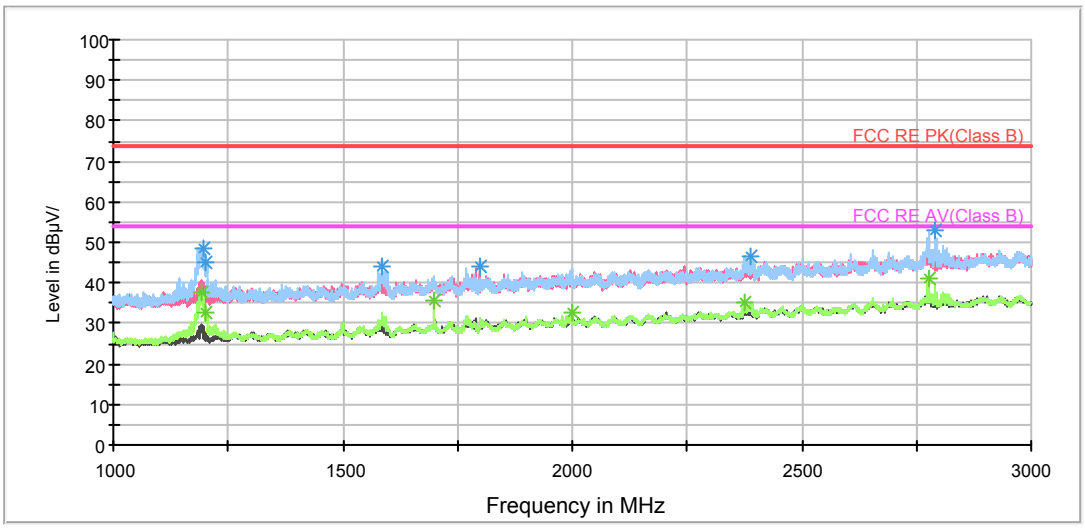
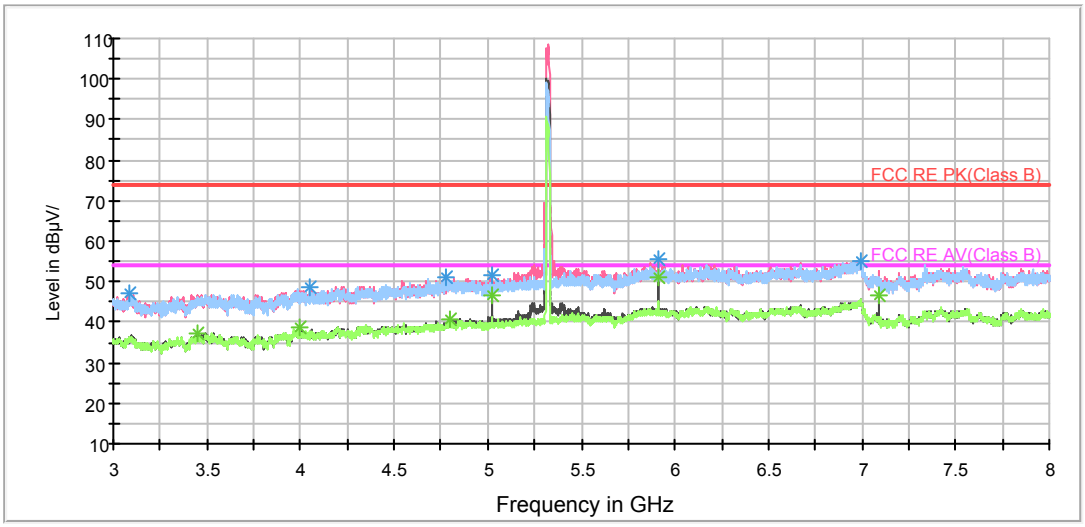
802.11a CH64

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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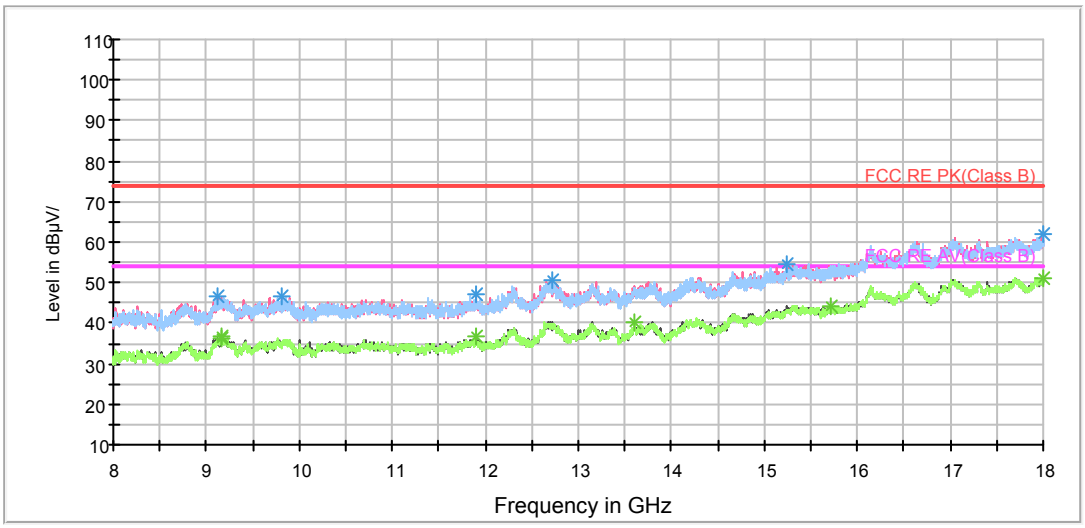
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3084.375000	47.0	200.0	V	277.0	39.9	7.1	27.0	74
4051.875000	48.5	200.0	H	69.0	39.6	8.9	25.5	74
4775.625000	51.1	200.0	V	0.0	40.0	11.1	22.9	74
5024.375000	51.7	200.0	V	229.0	40.1	11.6	22.3	74
5911.875000	55.5	200.0	V	0.0	40.7	14.8	18.5	74
6995.625000	55.2	200.0	V	305.0	38.7	16.5	18.8	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3448.125000	37.2	200.0	V	296.0	29.4	7.8	16.8	54
4000.000000	38.5	200.0	H	252.0	29.6	8.9	15.5	54
4798.750000	40.9	200.0	V	198.0	29.6	11.3	13.1	54
5024.375000	46.4	200.0	V	229.0	34.8	11.6	7.6	54
5911.250000	51.3	200.0	V	258.0	36.5	14.8	2.7	54
7093.750000	46.6	200.0	V	335.0	30.5	16.1	7.4	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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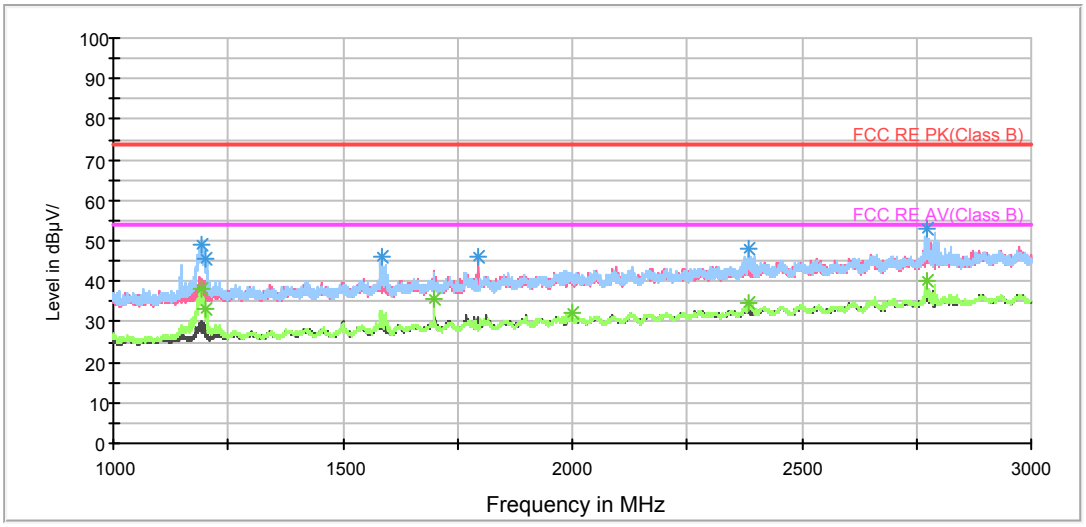
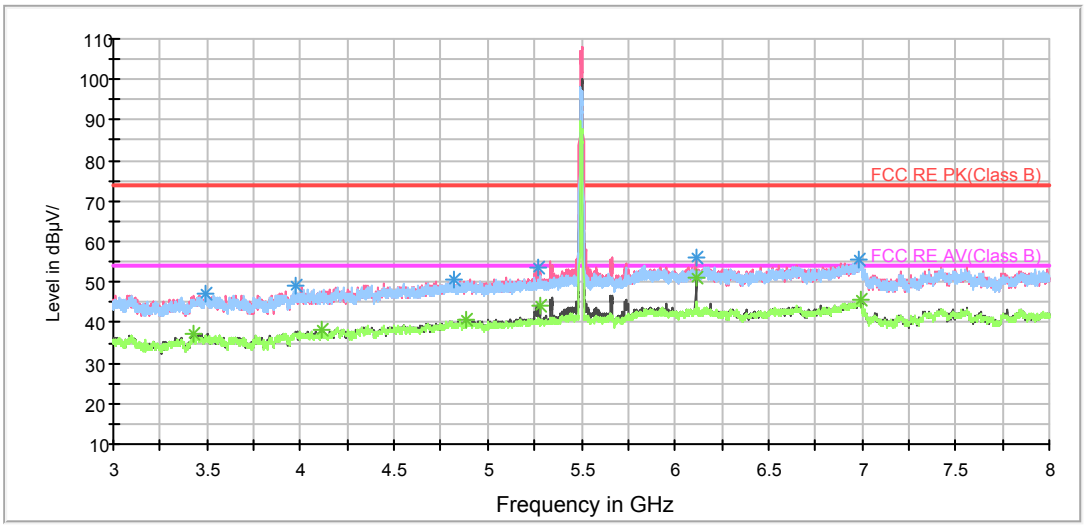
802.11a CH100

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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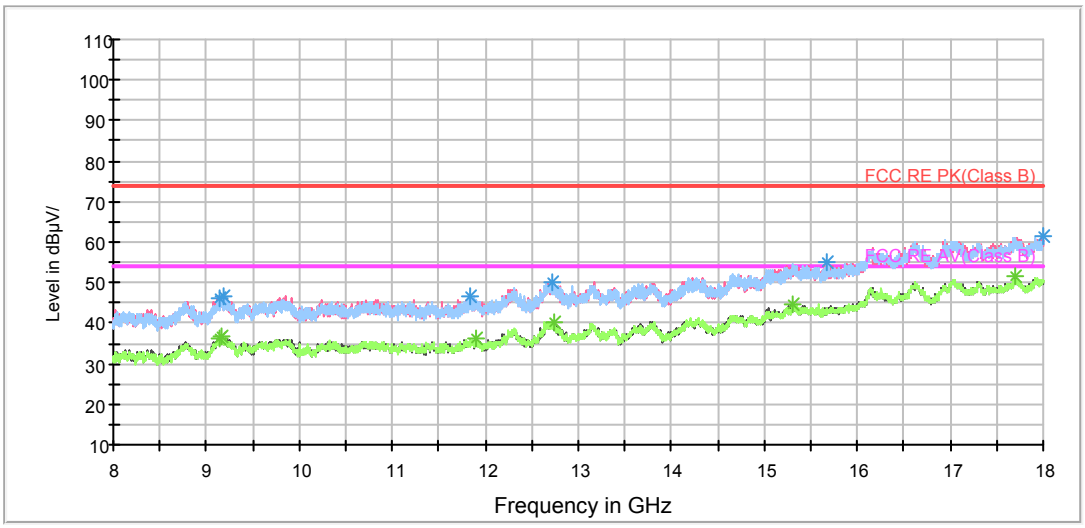
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3496.875000	47.0	200.0	H	152.0	39.1	7.9	27.0	74
3971.250000	49.2	200.0	H	212.0	40.1	9.1	24.8	74
4818.750000	50.7	200.0	V	266.0	39.4	11.3	23.3	74
5266.250000	53.7	200.0	V	266.0	41.5	12.2	20.3	74
6110.625000	55.8	200.0	V	256.0	40.6	15.2	18.2	74
6987.500000	55.6	200.0	H	152.0	39.2	16.4	18.4	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3424.375000	37.2	200.0	V	276.0	29.7	7.5	16.8	54
4117.500000	38.2	200.0	V	108.0	28.7	9.5	15.8	54
4888.750000	40.6	200.0	V	305.0	28.7	11.9	13.4	54
5278.125000	44.4	200.0	V	119.0	32.2	12.2	9.6	54
6111.250000	51.0	200.0	V	266.0	35.7	15.3	3.0	54
6992.500000	45.4	200.0	V	256.0	28.9	16.5	8.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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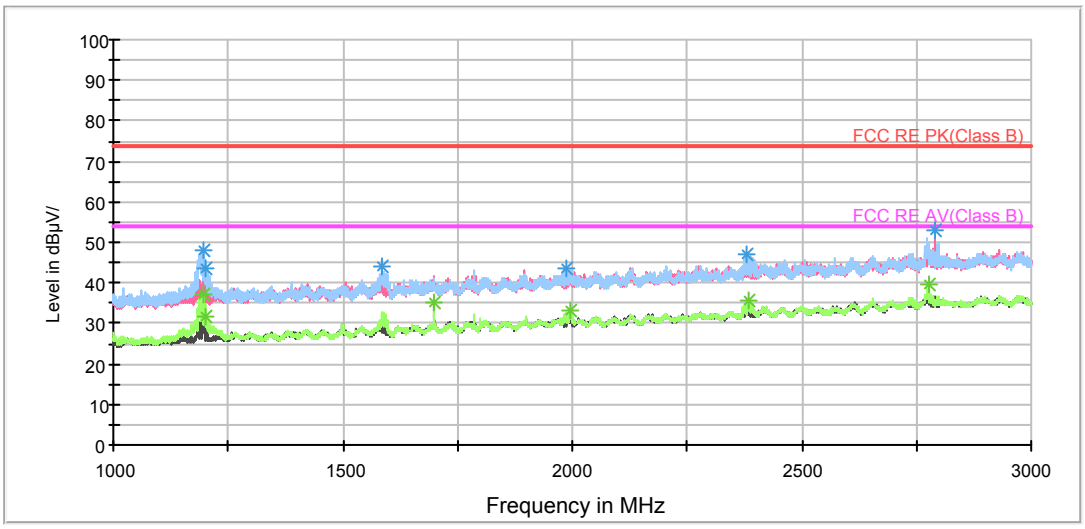
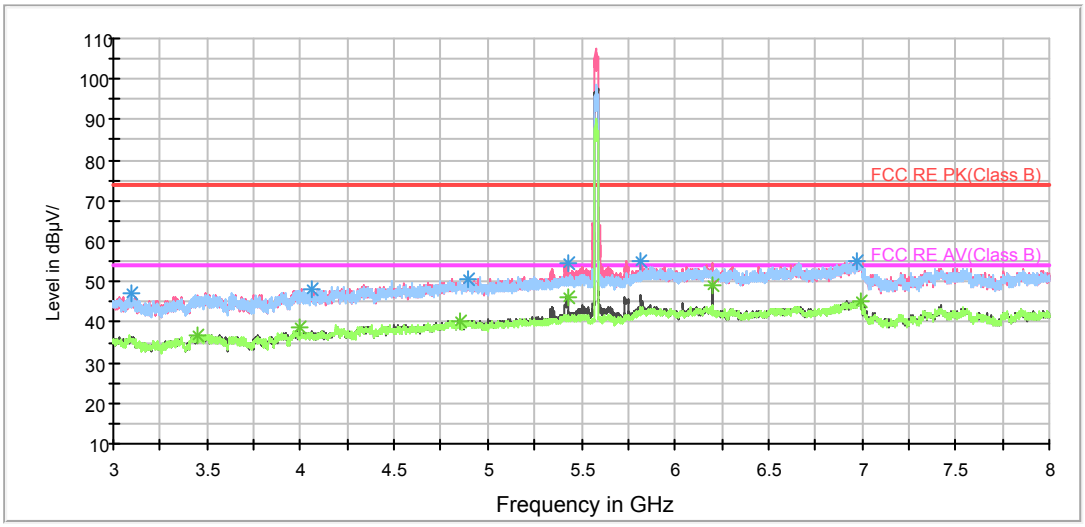
802.11a CH116

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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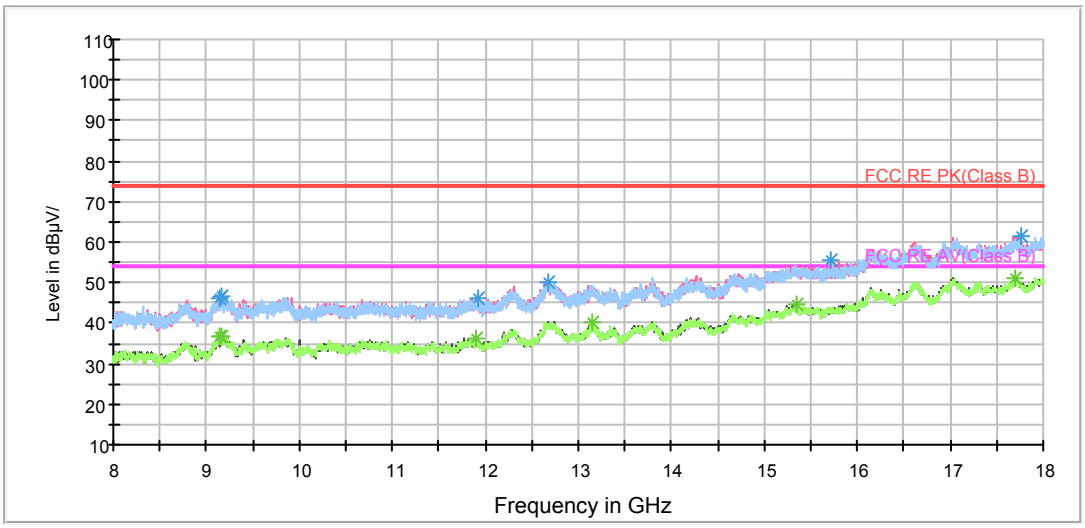
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3097.500000	47.2	200.0	H	51.0	40.0	7.2	26.8	74
4056.250000	48.1	200.0	H	231.0	39.2	8.9	25.9	74
4890.000000	50.7	200.0	V	0.0	38.8	11.9	23.3	74
5426.250000	54.8	200.0	V	255.0	42.0	12.8	19.2	74
5816.250000	54.8	200.0	V	234.0	40.3	14.5	19.2	74
6971.250000	55.2	200.0	V	204.0	38.9	16.3	18.8	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3454.375000	36.9	200.0	V	90.0	29.1	7.8	17.1	54
4000.000000	38.6	200.0	V	234.0	29.7	8.9	15.4	54
4848.125000	40.3	200.0	H	201.0	28.7	11.6	13.7	54
5426.875000	46.4	200.0	V	266.0	33.6	12.8	7.6	54
6200.000000	49.2	200.0	V	46.0	33.8	15.4	4.8	54
6993.125000	45.4	200.0	H	2.0	28.9	16.5	8.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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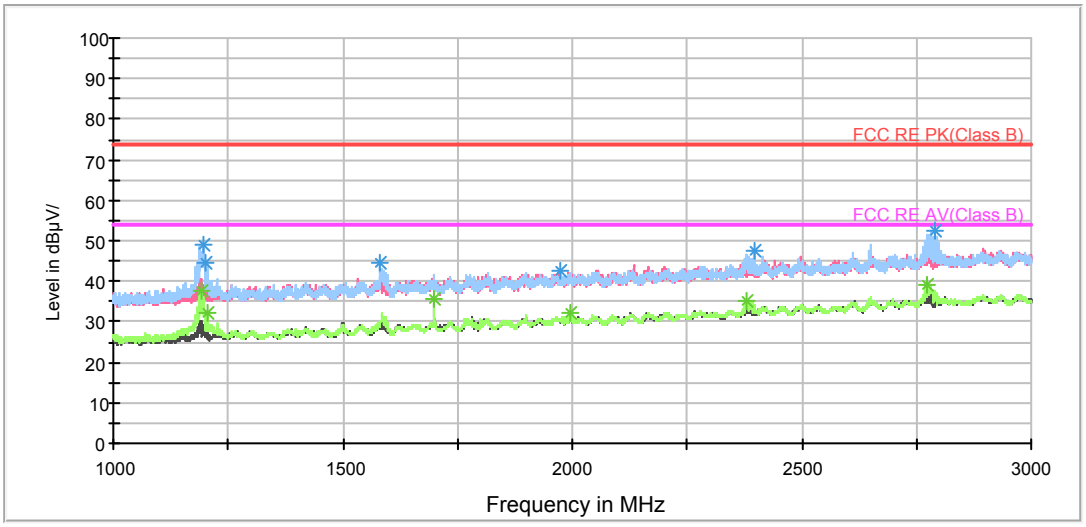
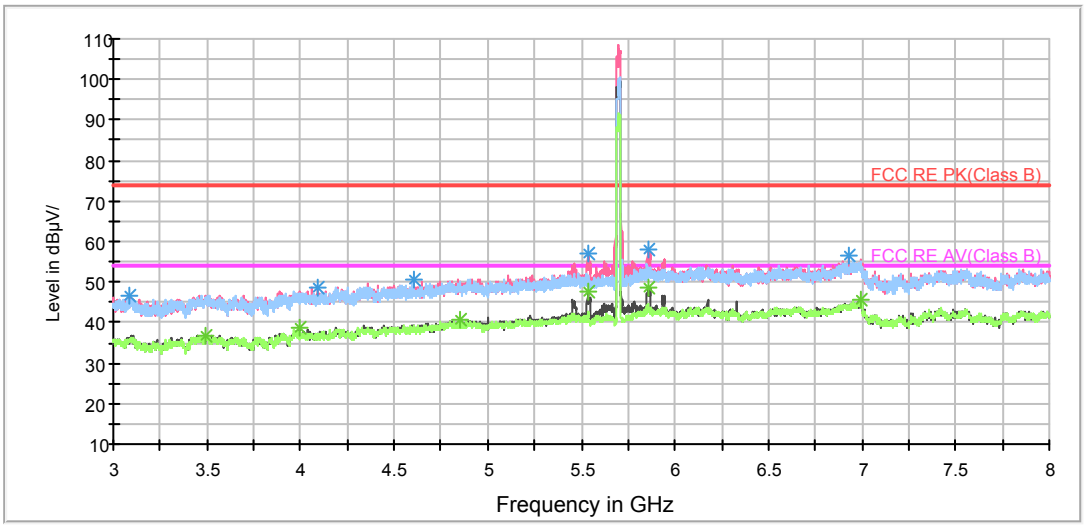
802.11a CH140

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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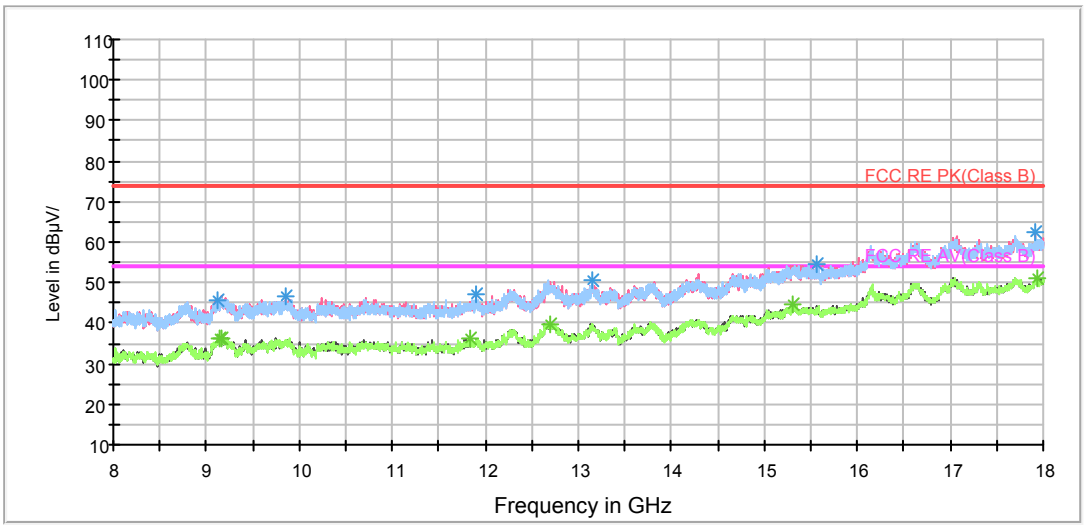
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3086.875000	46.8	200.0	V	295.0	39.7	7.1	27.2	74
4090.000000	48.9	200.0	V	179.0	39.8	9.1	25.1	74
4609.375000	50.7	200.0	V	148.0	39.8	10.9	23.3	74
5535.625000	57.0	200.0	V	118.0	43.8	13.2	17.0	74
5856.250000	57.9	200.0	V	237.0	43.1	14.8	16.1	74
6927.500000	56.3	200.0	V	247.0	40.1	16.2	17.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3493.125000	37.0	200.0	V	344.0	29.1	7.9	17.0	54
4000.000000	38.5	200.0	V	169.0	29.6	8.9	15.5	54
4852.500000	40.9	200.0	V	315.0	29.3	11.6	13.1	54
5536.875000	47.5	200.0	V	118.0	34.3	13.2	6.5	54
5856.250000	48.6	200.0	V	237.0	33.8	14.8	5.4	54
6995.000000	45.4	200.0	H	64.0	28.9	16.5	8.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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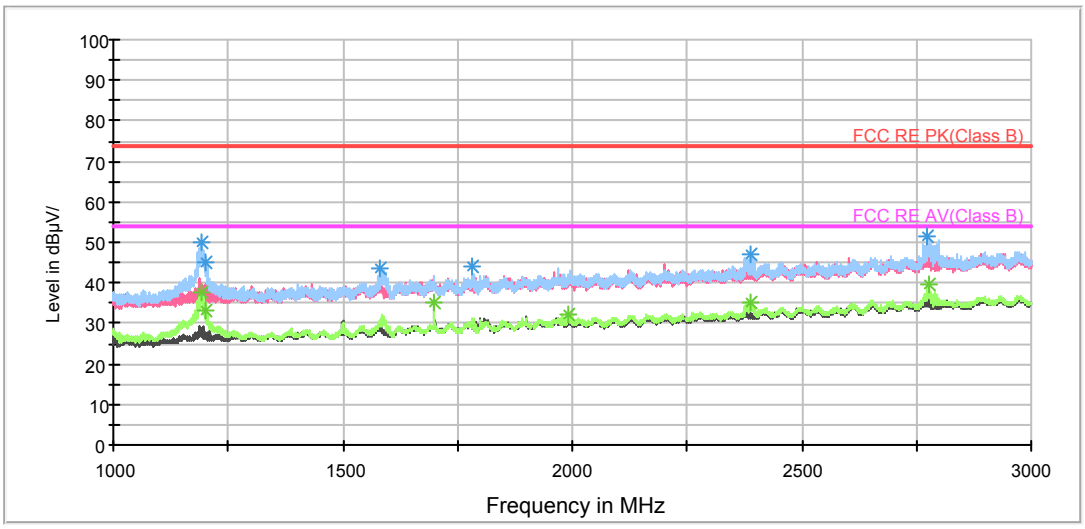
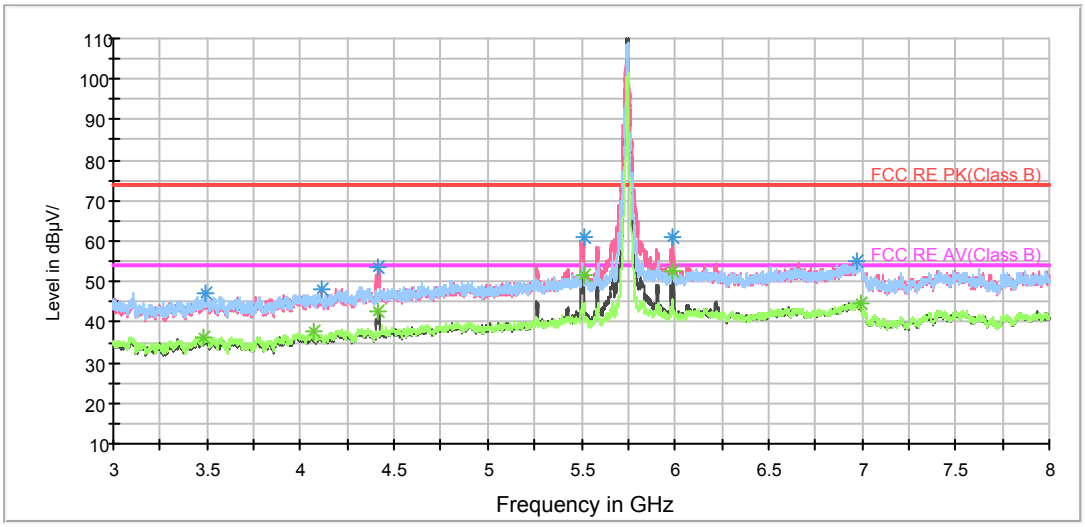
802.11a CH149

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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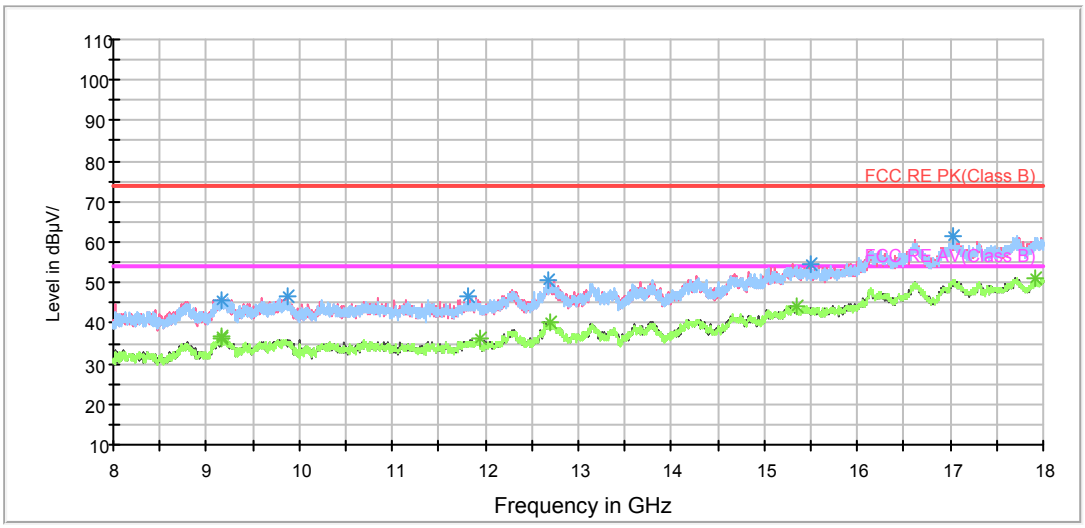
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3489.375000	47.0	200.0	H	103.0	39.0	8.0	27.0	74
4108.750000	47.9	200.0	V	165.0	38.7	9.2	26.1	74
4418.125000	53.5	200.0	V	246.0	43.3	10.2	20.5	74
5511.250000	60.8	200.0	V	266.0	47.7	13.1	13.2	74
5991.250000	60.8	200.0	V	266.0	46.0	14.8	13.2	74
6968.125000	55.2	200.0	H	322.0	38.9	16.3	18.8	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3486.250000	36.3	200.0	H	53.0	28.3	8.0	17.7	54
4068.125000	37.9	200.0	H	215.0	28.9	9.0	16.1	54
4413.750000	42.7	200.0	V	256.0	32.5	10.2	11.3	54
5513.125000	51.6	200.0	V	256.0	38.5	13.1	2.4	54
5991.250000	52.7	200.0	V	266.0	37.9	14.8	1.3	54
6994.375000	44.7	200.0	V	76.0	28.2	16.5	9.3	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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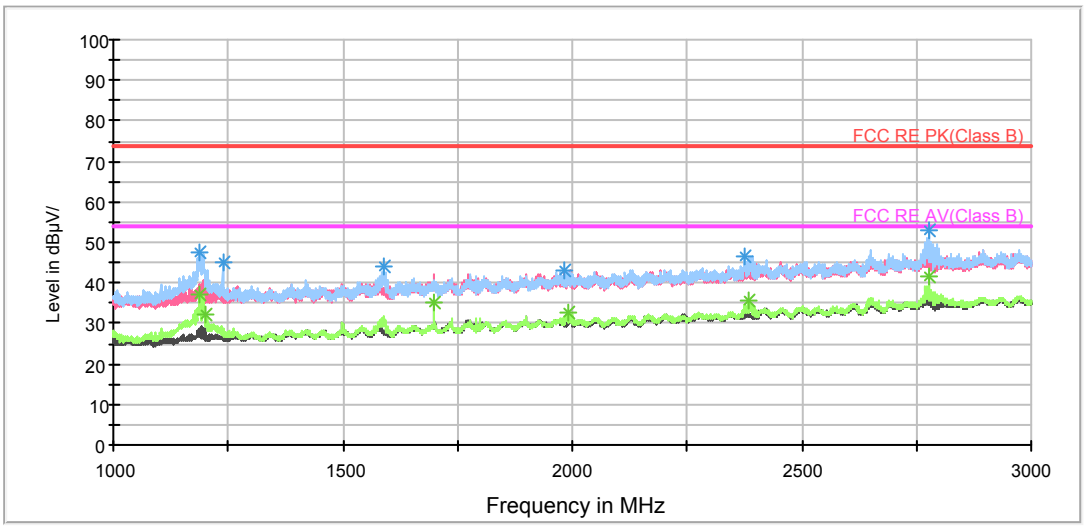
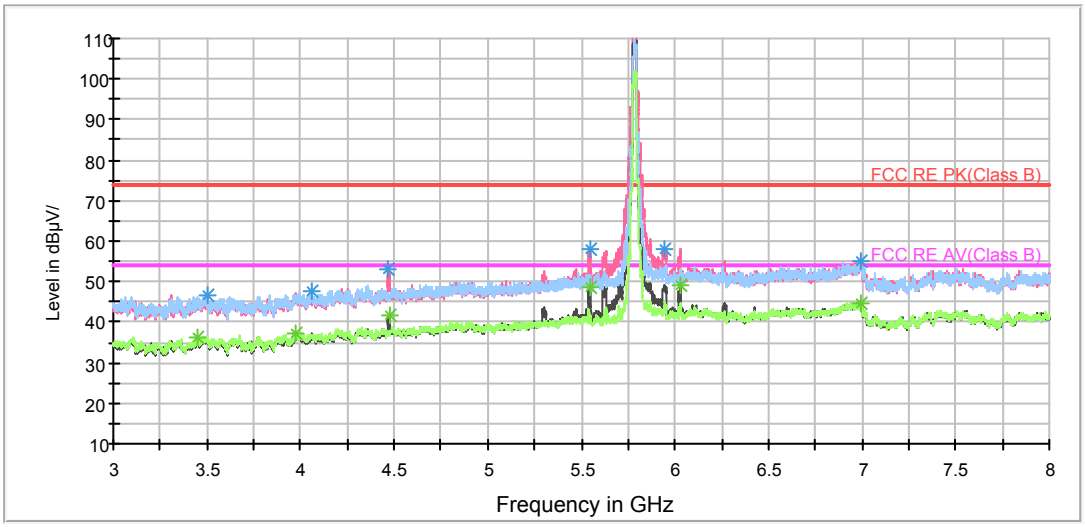
802.11a CH157

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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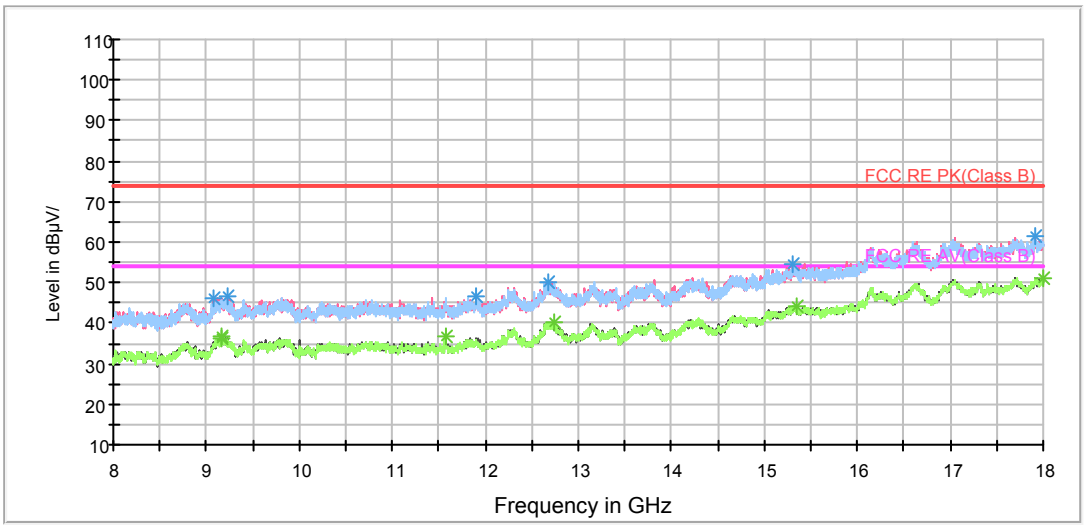
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3505.625000	46.8	200.0	V	187.0	38.9	7.9	27.2	74
4055.625000	47.8	200.0	H	173.0	38.9	8.9	26.2	74
4465.000000	52.8	200.0	V	97.0	42.5	10.3	21.2	74
5551.250000	57.9	200.0	V	187.0	44.7	13.2	16.1	74
5942.500000	58.1	200.0	V	66.0	43.3	14.8	15.9	74
6995.000000	55.2	200.0	V	97.0	38.7	16.5	18.8	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3447.500000	36.5	200.0	H	0.0	28.7	7.8	17.5	54
3975.625000	37.3	200.0	H	0.0	28.2	9.1	16.7	54
4475.000000	41.8	200.0	V	176.0	31.3	10.5	12.2	54
5550.625000	48.7	200.0	V	264.0	35.5	13.2	5.3	54
6031.250000	49.3	200.0	V	116.0	34.5	14.8	4.7	54
6995.625000	44.9	200.0	H	6.0	28.4	16.5	9.1	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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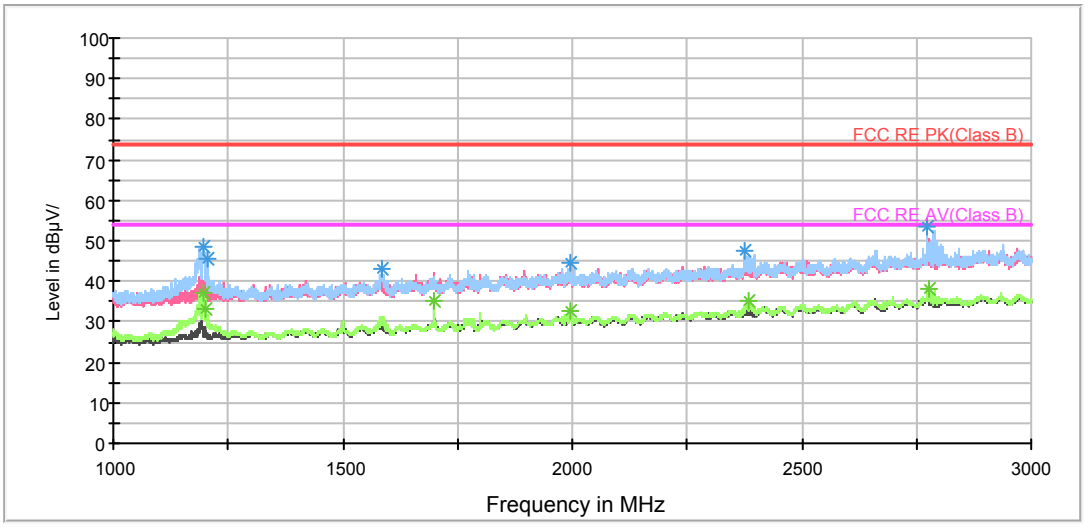
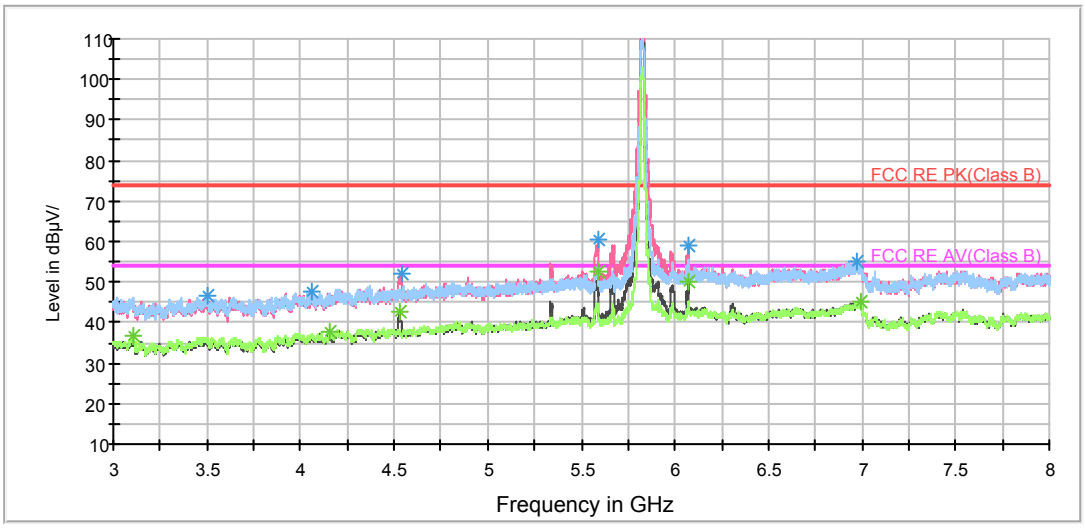
802.11a CH165

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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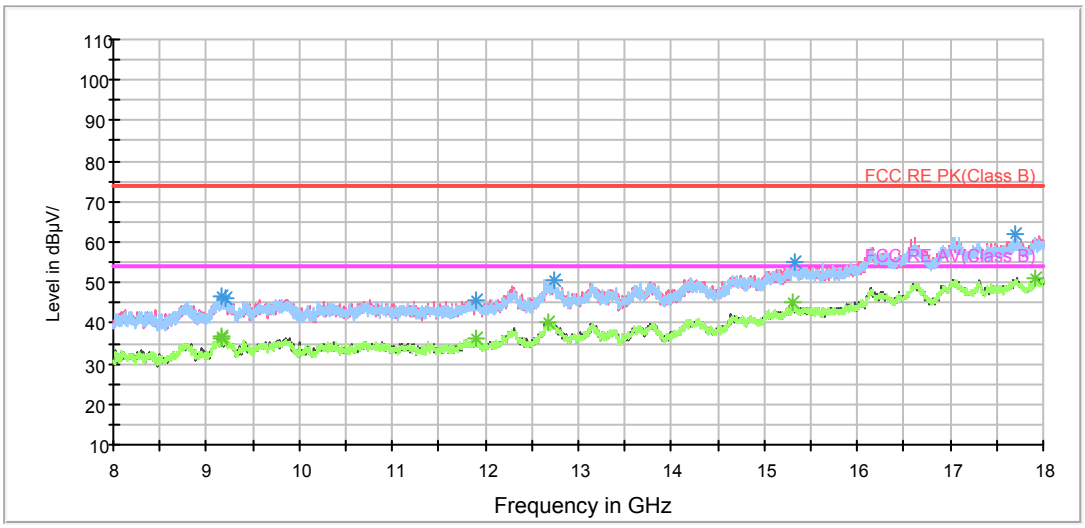
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3504.375000	46.5	200.0	H	263.0	38.6	7.9	27.5	74
4055.000000	47.8	200.0	H	92.0	38.9	8.9	26.2	74
4539.375000	52.2	200.0	V	245.0	41.5	10.7	21.8	74
5588.125000	60.4	200.0	V	0.0	47.0	13.4	13.6	74
6071.875000	58.9	200.0	V	166.0	43.8	15.1	15.1	74
6975.000000	55.1	200.0	V	216.0	38.8	16.3	18.9	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3103.750000	36.6	200.0	H	102.0	29.4	7.2	17.4	54
4155.625000	37.9	200.0	H	0.0	28.0	9.9	16.1	54
4531.250000	42.8	200.0	V	255.0	32.2	10.6	11.2	54
5588.750000	52.6	200.0	V	354.0	39.2	13.4	1.4	54
6994.375000	45.1	200.0	V	196.0	28.6	16.5	8.9	54
6073.125000	50.3	200.0	V	166.0	35.2	15.1	3.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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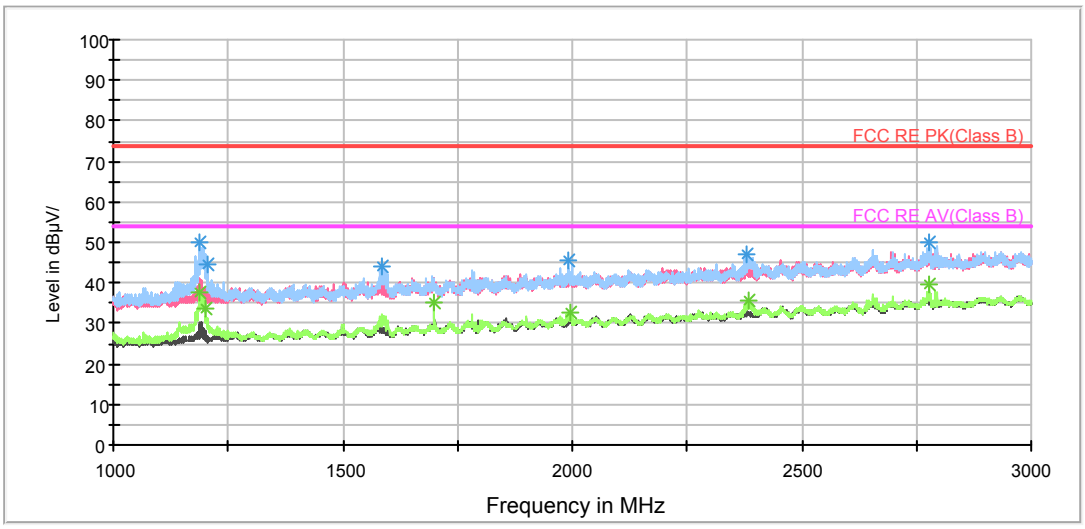
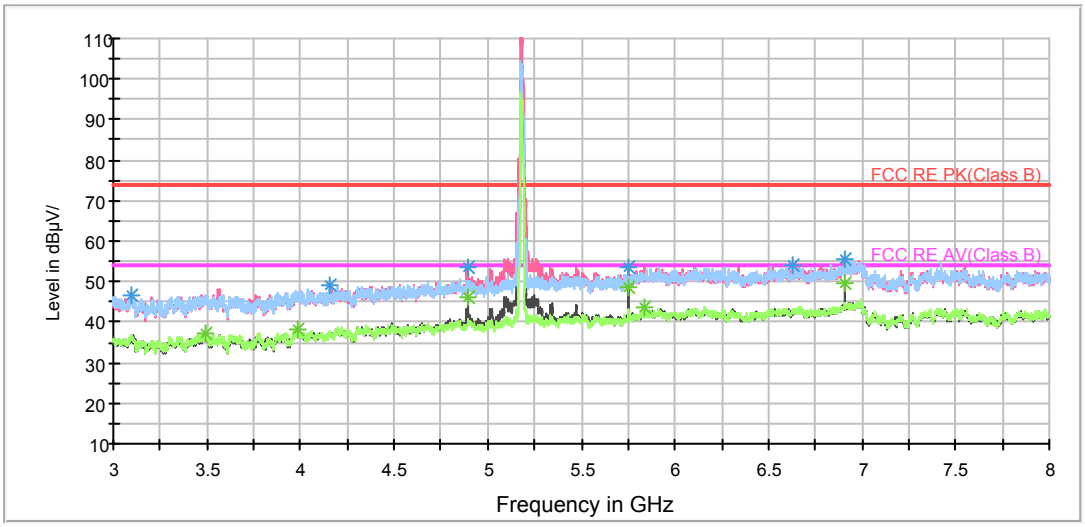
802.11n (HT20) CH36

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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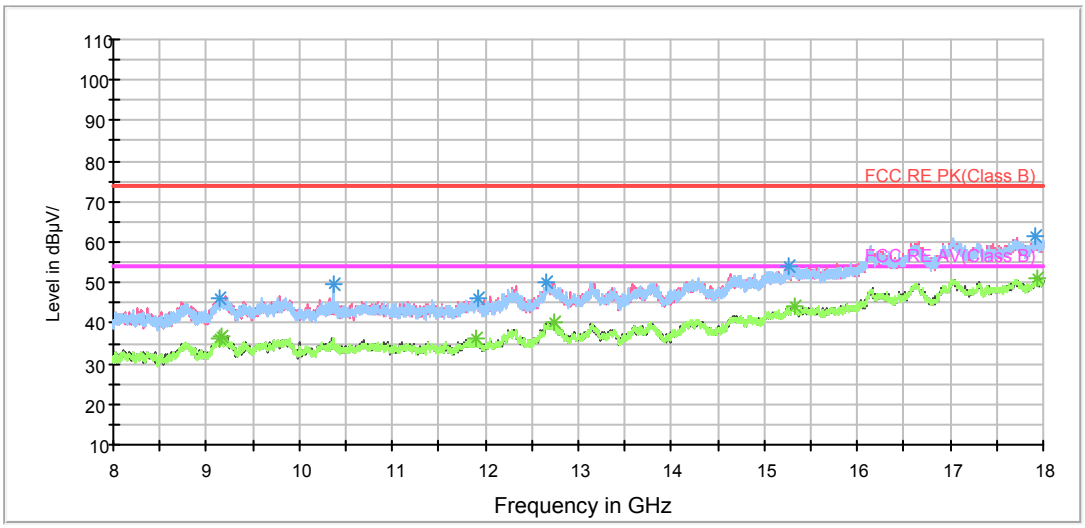
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3096.875000	46.6	200.0	H	232.0	39.4	7.2	27.4	74
4156.875000	48.9	200.0	H	0.0	39.0	9.9	25.1	74
4891.875000	53.6	200.0	V	337.0	41.7	11.9	20.4	74
5755.625000	53.4	200.0	V	260.0	39.8	13.6	20.6	74
6630.625000	54.1	200.0	V	278.0	38.6	15.5	19.9	74
6906.875000	55.7	200.0	V	220.0	39.4	16.3	18.3	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3489.375000	37.0	200.0	H	0.0	29.0	8.0	17.0	54
3980.625000	38.3	200.0	H	132.0	29.2	9.1	15.7	54
4892.500000	46.2	200.0	V	121.0	34.3	11.9	7.8	54
5755.625000	48.8	200.0	V	260.0	35.2	13.6	5.2	54
5836.875000	43.7	200.0	H	74.0	29.2	14.5	10.3	54
6906.875000	49.5	200.0	V	220.0	33.2	16.3	4.5	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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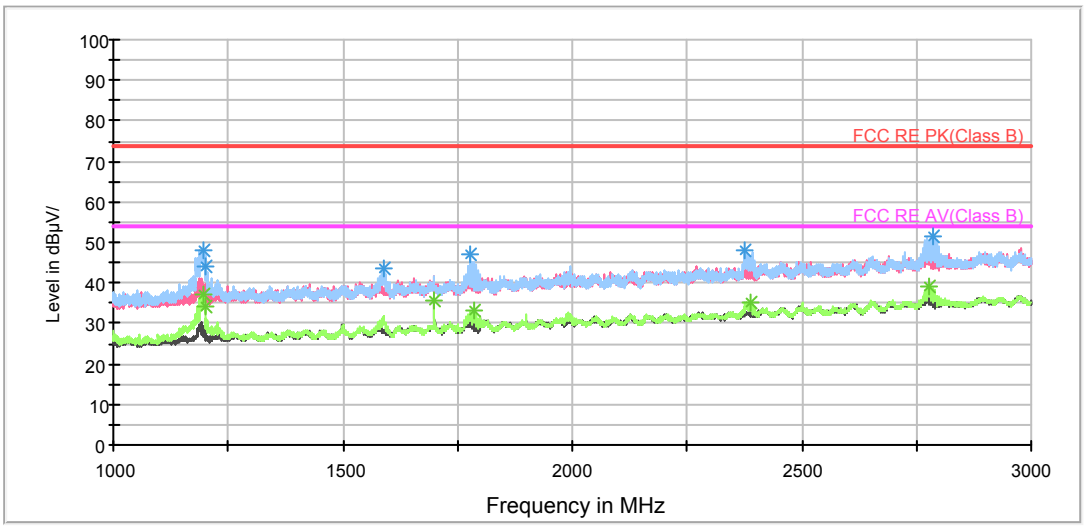
802.11n (HT20) CH40

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV

Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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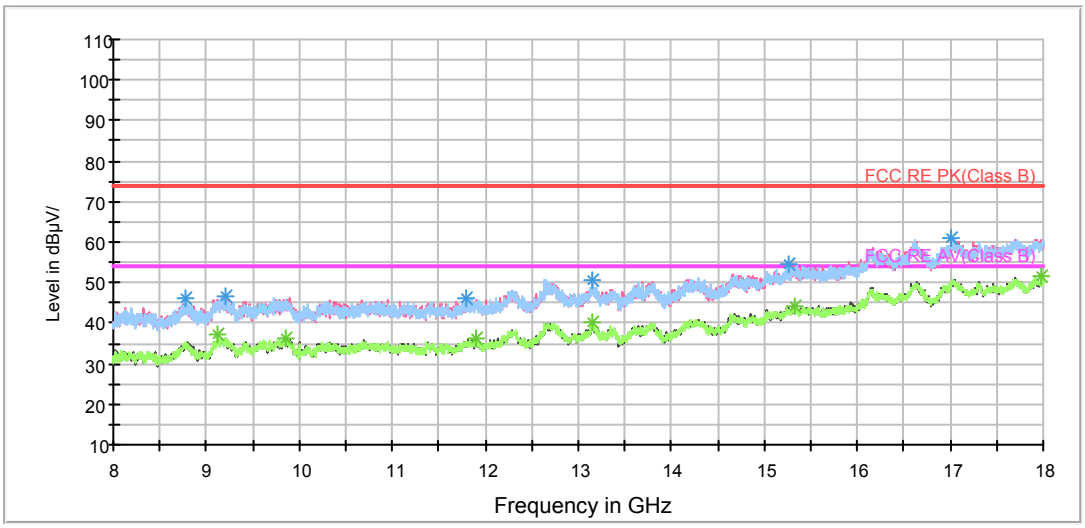
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3488.750000	47.5	200.0	V	269.0	39.5	8.0	26.5	74
3993.125000	48.1	200.0	V	0.0	39.2	8.9	25.9	74
4648.750000	50.4	200.0	V	138.0	39.5	10.9	23.6	74
5777.500000	56.6	200.0	V	288.0	42.7	13.9	17.4	74
6933.750000	56.7	200.0	V	56.0	40.5	16.2	17.3	74
7785.625000	52.9	200.0	V	259.0	35.9	17.0	21.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3483.125000	37.0	200.0	H	37.0	29.0	8.0	17.0	54
3982.500000	37.9	200.0	H	189.0	28.9	9.0	16.1	54
4846.250000	40.4	200.0	H	0.0	28.8	11.6	13.6	54
5777.500000	51.4	200.0	V	288.0	37.5	13.9	2.6	54
6933.750000	52.0	200.0	V	56.0	35.8	16.2	2.0	54
7825.625000	42.8	200.0	H	209.0	25.8	17.0	11.2	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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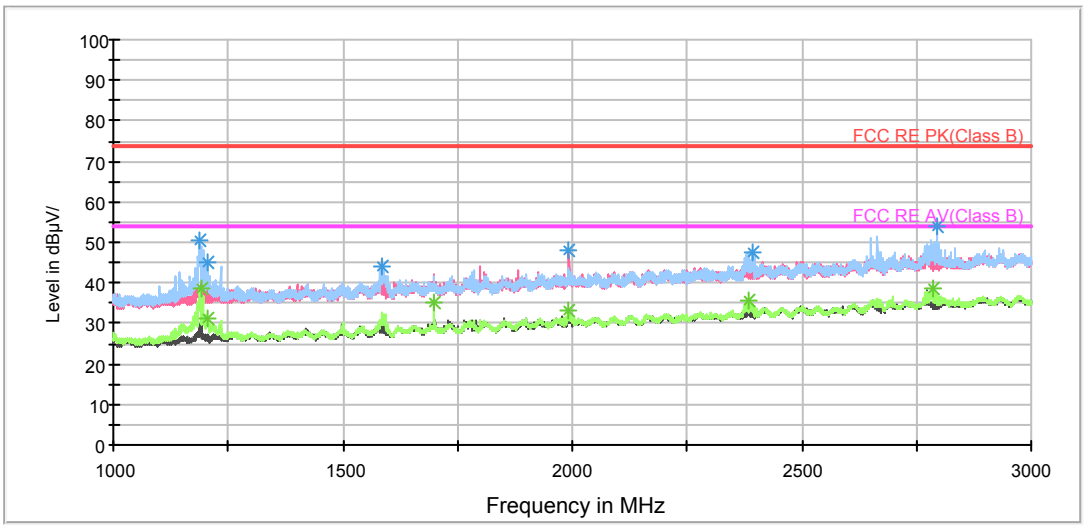
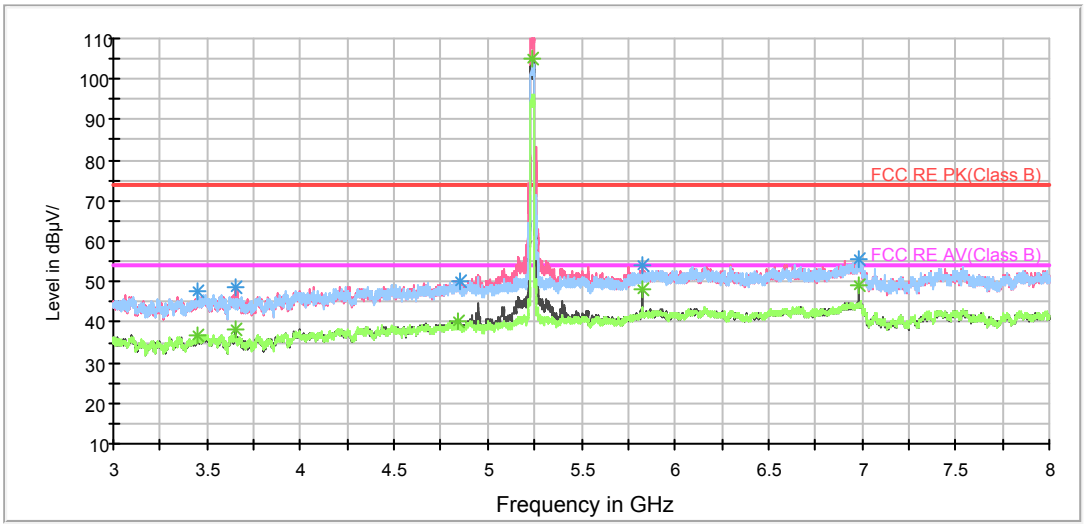
802.11n (HT20) CH48

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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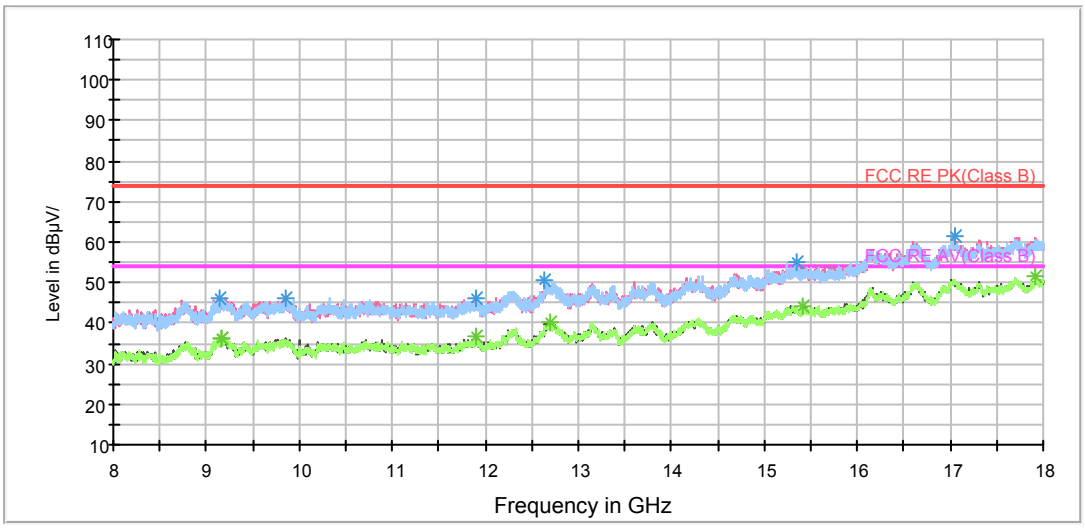
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3445.000000	47.5	200.0	H	127.0	39.8	7.7	26.5	74
3651.875000	48.8	200.0	V	97.0	40.7	8.1	25.2	74
4855.000000	50.3	200.0	V	266.0	38.7	11.6	23.7	74
5822.500000	54.1	200.0	V	0.0	39.6	14.5	19.9	74
6986.875000	55.3	200.0	V	217.0	38.9	16.4	18.7	74
17046.250000	61.2	199.0	V	312.0	36.7	24.5	12.8	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3451.250000	36.7	200.0	H	69.0	28.9	7.8	17.3	54
3651.250000	38.4	200.0	V	107.0	30.3	8.1	15.6	54
4841.875000	40.3	200.0	V	247.0	28.7	11.6	13.7	54
5822.500000	48.0	200.0	V	0.0	33.5	14.5	6.0	54
6986.875000	49.1	200.0	V	217.0	32.7	16.4	4.9	54
17918.750000	51.4	199.0	V	199.0	25.7	25.7	2.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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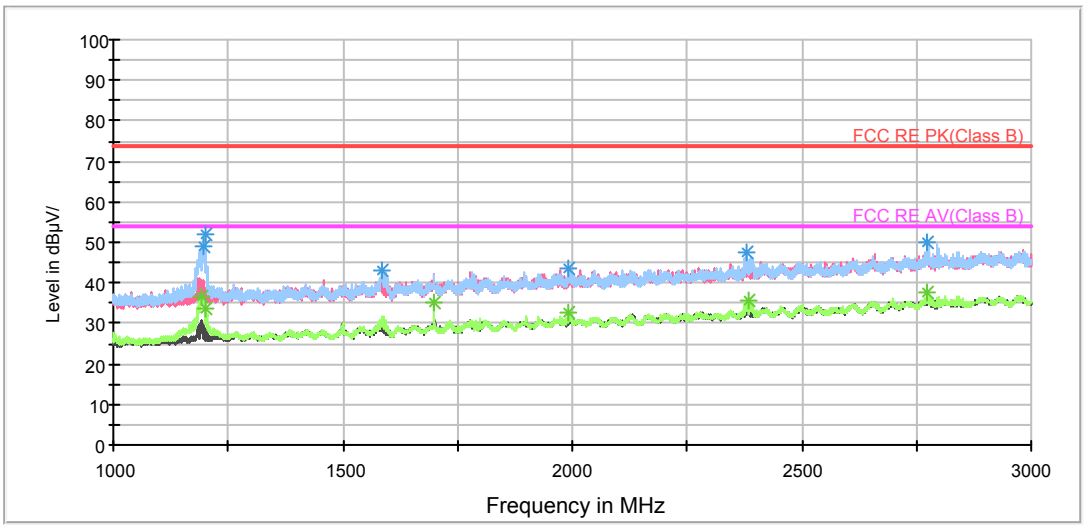
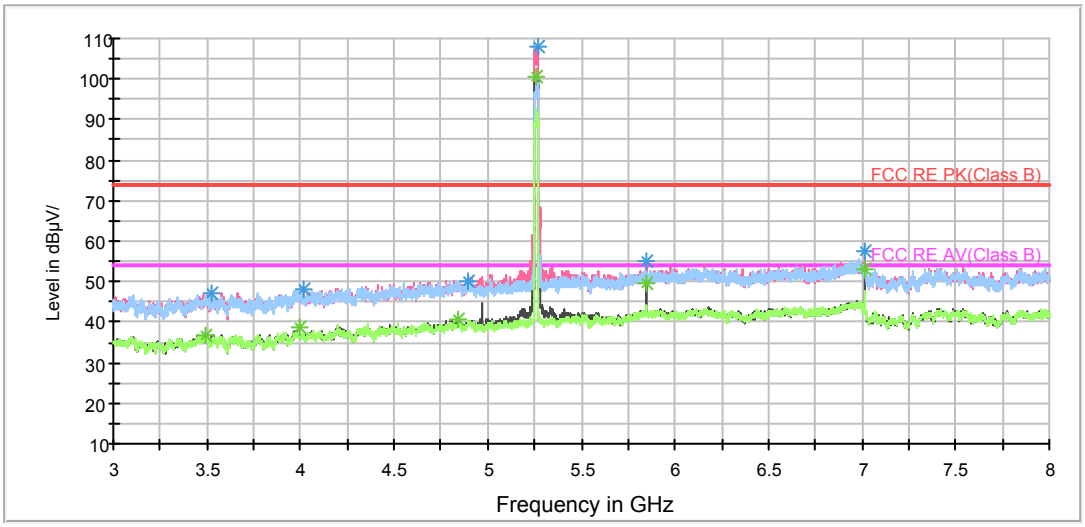
802.11n (HT20) CH52

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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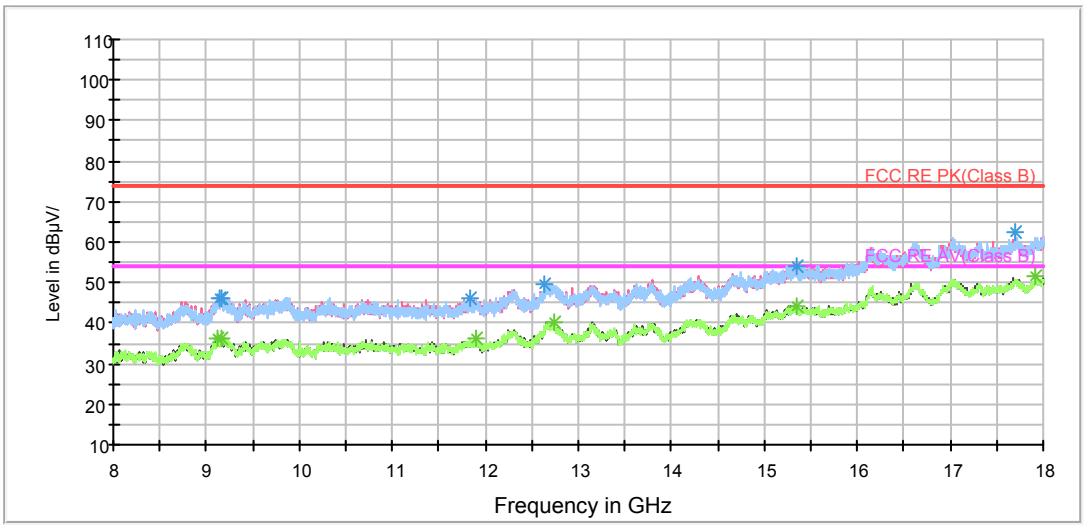
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3529.375000	46.9	200.0	H	22.0	39.0	7.9	27.1	74
4015.000000	48.1	200.0	V	210.0	39.3	8.8	25.9	74
4891.875000	50.3	200.0	H	68.0	38.4	11.9	23.7	74
5844.375000	55.3	200.0	V	199.0	40.7	14.6	18.7	74
7013.750000	57.4	200.0	V	98.0	40.9	16.5	16.6	74
17705.000000	62.5	199.0	H	0.0	37.8	24.7	11.5	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3490.625000	36.8	200.0	V	117.0	28.9	7.9	17.2	54
4000.000000	38.9	200.0	H	227.0	30.0	8.9	15.1	54
4836.250000	40.5	200.0	V	277.0	29.0	11.5	13.5	54
5844.375000	49.6	200.0	V	199.0	35.0	14.6	4.4	54
7013.750000	53.2	200.0	V	98.0	36.7	16.5	0.8	54
17921.250000	51.5	199.0	V	24.0	25.8	25.7	2.5	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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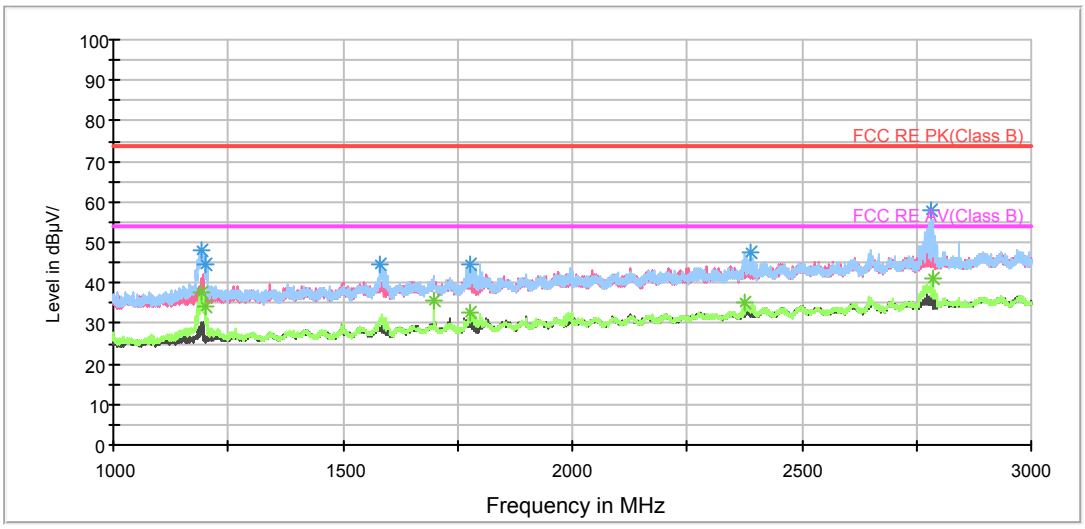
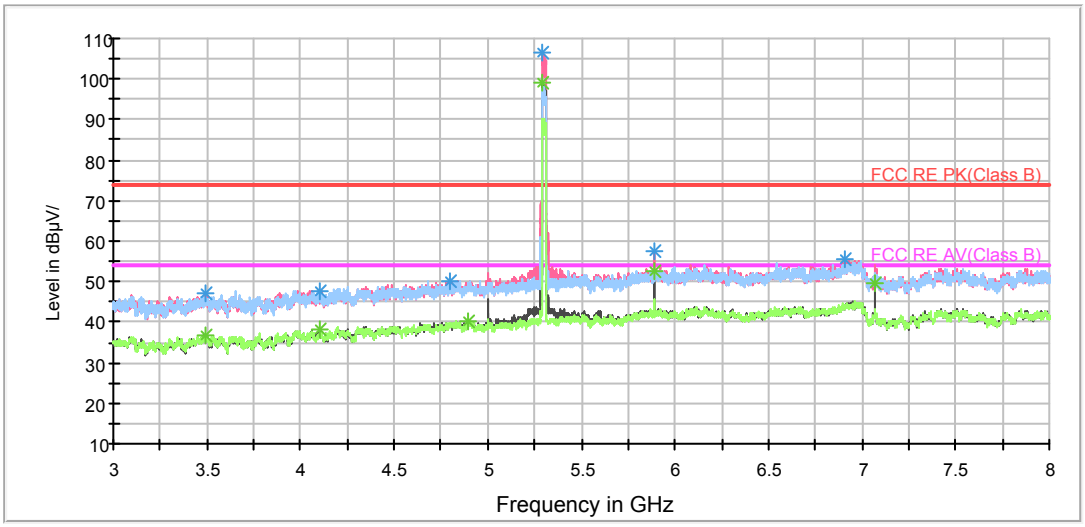
802.11n (HT20) CH60

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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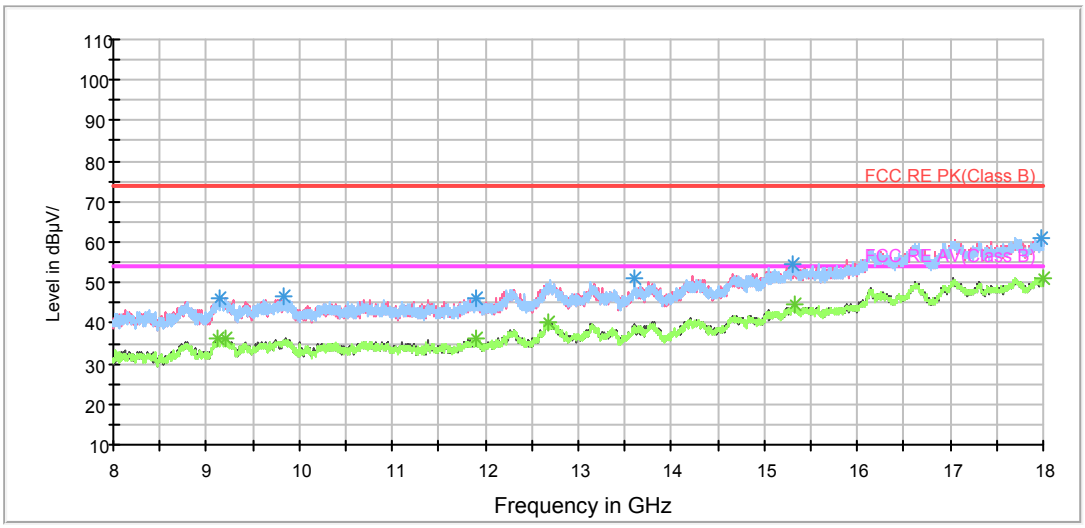
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3491.875000	47.2	200.0	V	0.0	39.3	7.9	26.8	74
4101.250000	47.8	200.0	H	305.0	38.8	9.0	26.2	74
4802.500000	50.3	200.0	H	199.0	39.0	11.3	23.7	74
5888.750000	57.3	200.0	V	0.0	42.4	14.9	16.7	74
6911.250000	55.5	200.0	V	0.0	39.3	16.2	18.5	74
17982.500000	61.2	199.0	V	333.0	36.2	25.0	12.8	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3491.250000	36.9	200.0	H	51.0	29.0	7.9	17.1	54
4101.875000	38.0	200.0	V	304.0	28.9	9.1	16.0	54
4898.125000	40.2	200.0	H	3.0	28.3	11.9	13.8	54
5888.750000	52.5	200.0	V	0.0	37.6	14.9	1.5	54
7066.875000	49.6	200.0	V	159.0	33.4	16.2	4.4	54
17996.250000	51.2	199.0	H	313.0	25.8	25.4	2.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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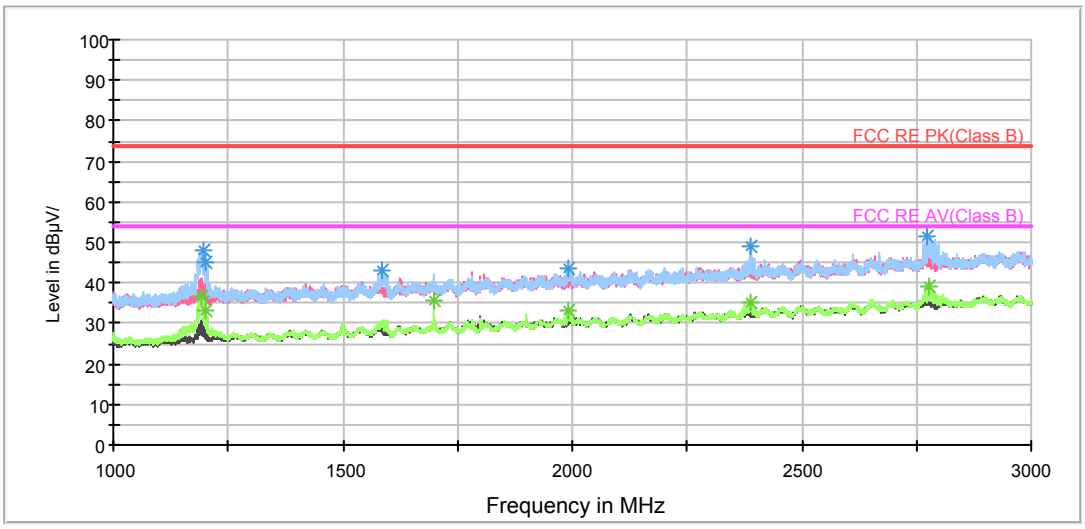
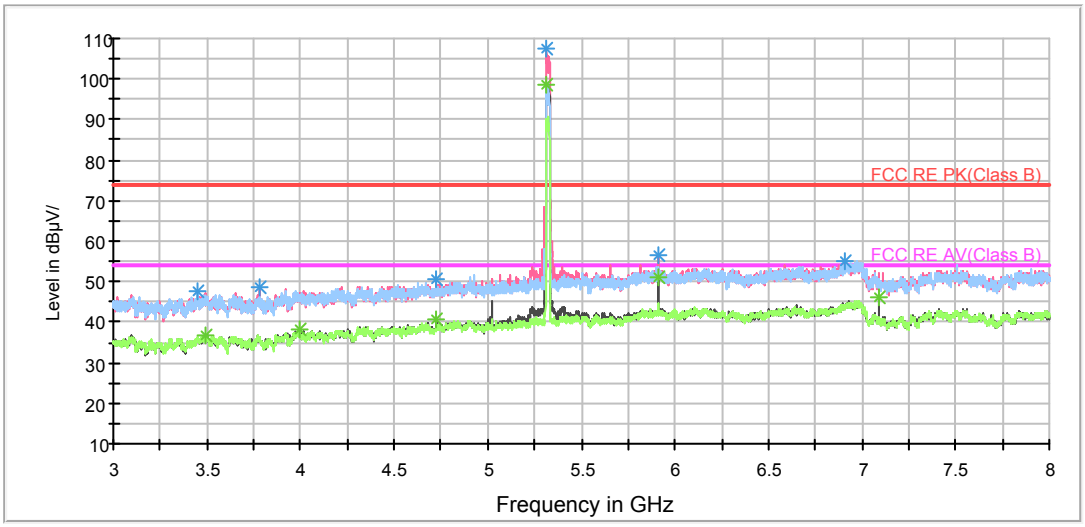
802.11n (HT20) CH64

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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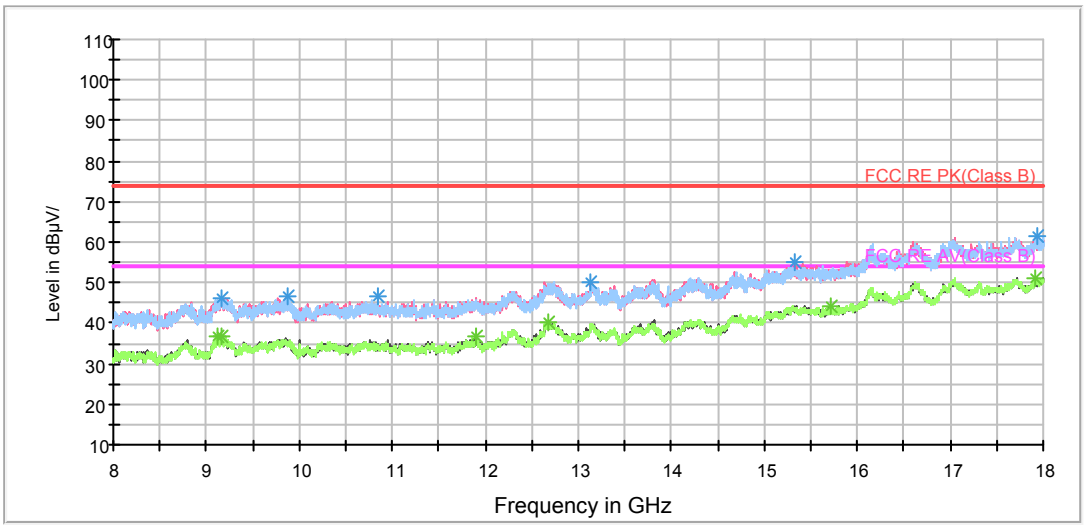
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3447.500000	47.6	200.0	H	102.0	39.8	7.8	26.4	74
3780.625000	48.4	200.0	V	324.0	40.2	8.2	25.6	74
4726.250000	50.6	200.0	H	23.0	39.8	10.8	23.4	74
5911.250000	56.4	200.0	V	0.0	41.6	14.8	17.6	74
6911.250000	55.1	200.0	V	295.0	38.9	16.2	18.9	74
17926.250000	61.6	200.0	V	118.0	36.1	25.5	12.4	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3489.375000	36.6	200.0	V	97.0	28.6	8.0	17.4	54
3999.375000	38.0	200.0	V	197.0	29.1	8.9	16.0	54
4728.750000	40.9	200.0	V	45.0	30.1	10.8	13.1	54
5911.250000	50.9	200.0	V	0.0	36.1	14.8	3.1	54
7093.750000	45.9	200.0	V	157.0	29.8	16.1	8.1	54
17918.750000	51.2	200.0	V	317.0	25.5	25.7	2.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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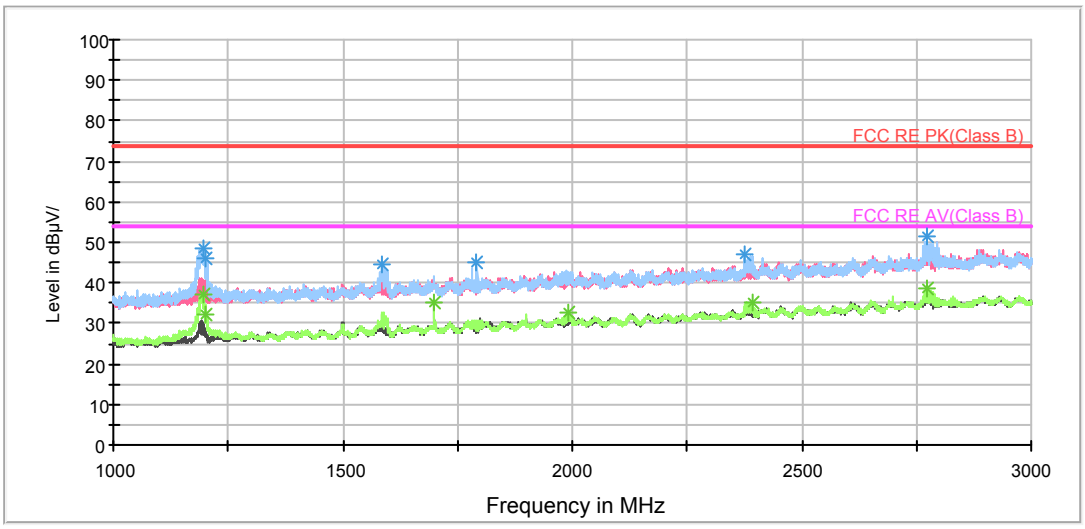
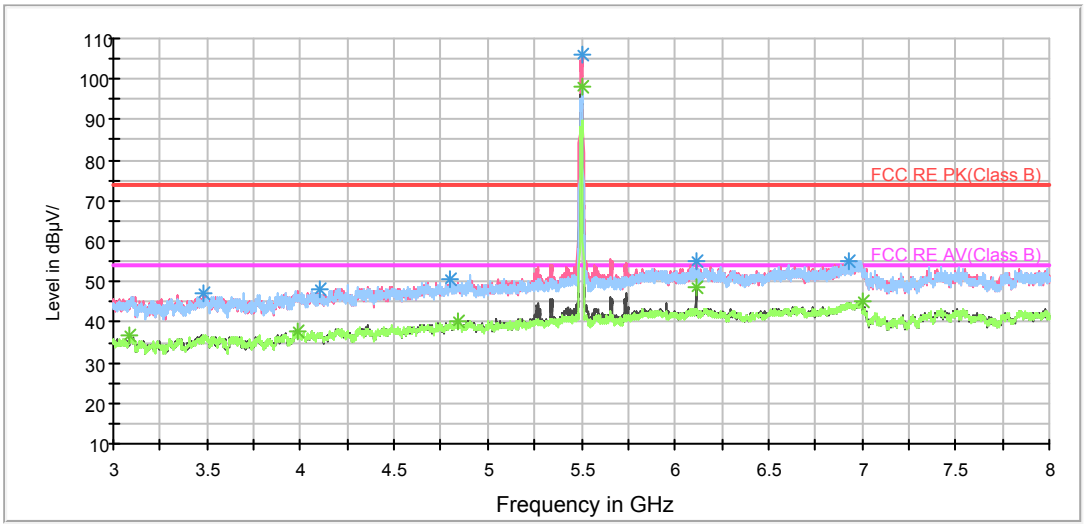
802.11n (HT20) CH100

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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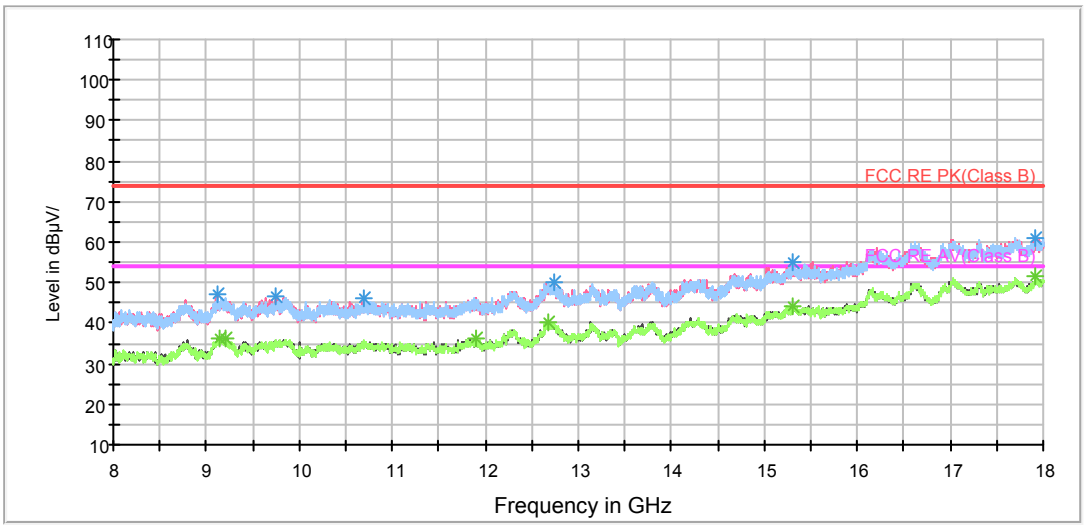
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3482.500000	46.9	200.0	V	258.0	38.9	8.0	27.1	74
4103.125000	48.0	200.0	H	222.0	38.9	9.1	26.0	74
4799.375000	50.6	200.0	V	239.0	39.3	11.3	23.4	74
6111.250000	54.9	200.0	V	46.0	39.6	15.3	19.1	74
6928.125000	55.1	200.0	H	262.0	38.9	16.2	18.9	74
17917.500000	60.9	200.0	V	126.0	35.2	25.7	13.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3090.000000	36.9	200.0	V	336.0	29.8	7.1	17.1	54
3983.750000	37.8	200.0	H	66.0	28.8	9.0	16.2	54
4841.875000	40.2	200.0	H	113.0	28.6	11.6	13.8	54
6111.250000	48.8	200.0	V	46.0	33.5	15.3	5.2	54
6999.375000	45.0	200.0	V	199.0	28.5	16.5	9.0	54
17920.000000	51.5	200.0	H	0.0	25.7	25.8	2.5	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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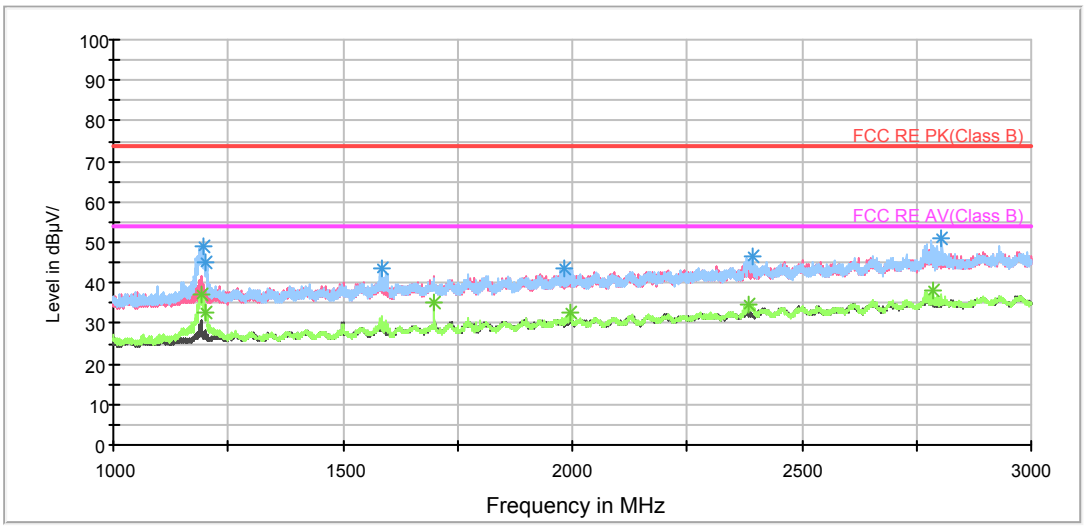
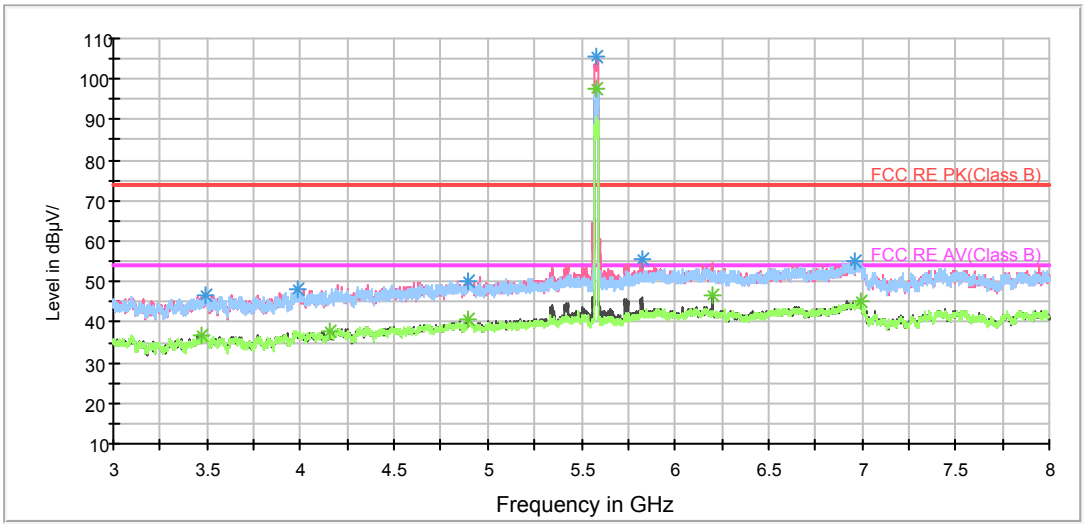
802.11n (HT20) CH116

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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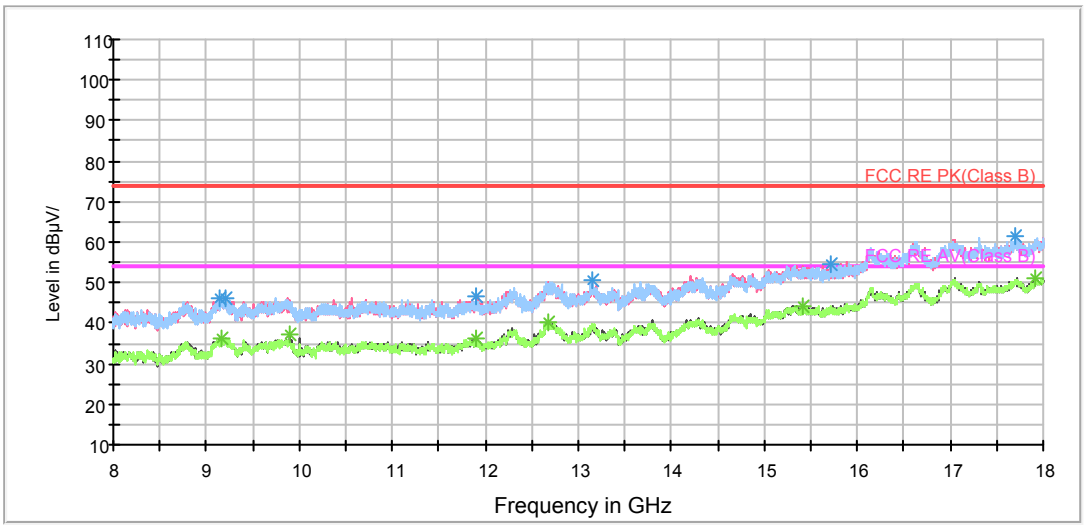
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3494.375000	46.4	200.0	V	0.0	38.5	7.9	27.6	74
3980.625000	48.0	200.0	V	330.0	38.9	9.1	26.0	74
4895.625000	50.3	200.0	V	288.0	38.4	11.9	23.7	74
5821.250000	55.7	200.0	V	0.0	41.2	14.5	18.3	74
6963.750000	55.1	200.0	V	140.0	38.9	16.2	18.9	74
17702.500000	61.3	200.0	H	113.0	36.6	24.7	12.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3474.375000	36.8	200.0	V	268.0	28.8	8.0	17.2	54
4155.000000	37.9	200.0	H	1.0	28.0	9.9	16.1	54
4893.750000	40.5	200.0	V	349.0	28.6	11.9	13.5	54
6200.000000	46.6	200.0	V	109.0	31.2	15.4	7.4	54
6994.375000	45.2	200.0	H	69.0	28.7	16.5	8.8	54
17921.250000	51.3	200.0	H	50.0	25.6	25.7	2.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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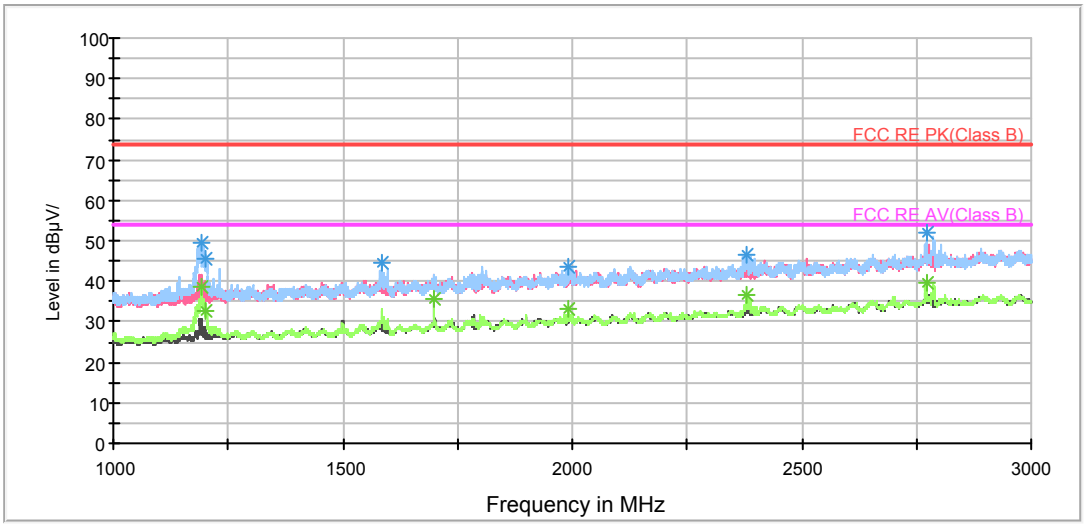
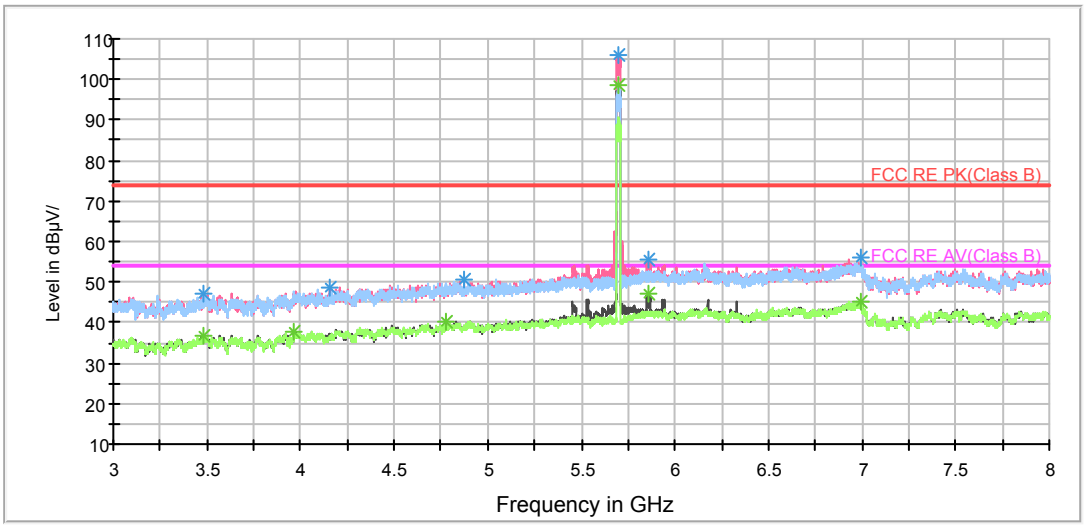
802.11n (HT20) CH140

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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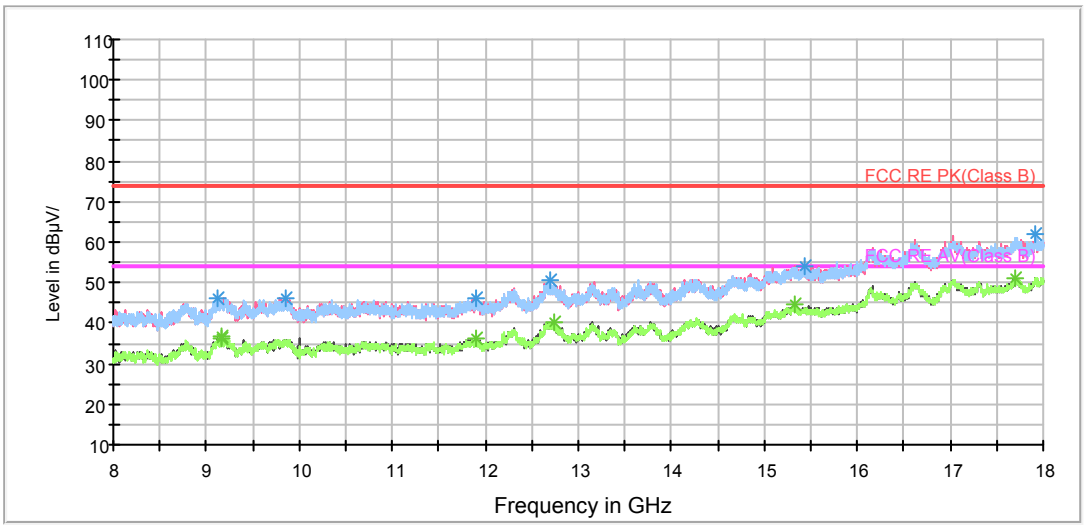
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

requency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3484.375000	46.9	200.0	H	103.0	38.9	8.0	27.1	74
4153.125000	48.4	200.0	V	335.0	38.5	9.9	25.6	74
4873.750000	50.8	200.0	V	354.0	39.0	11.8	23.2	74
5854.375000	55.6	200.0	V	157.0	40.9	14.7	18.4	74
6990.625000	55.8	200.0	H	223.0	39.3	16.5	18.2	74
17918.750000	62.0	200.0	H	52.0	36.3	25.7	12.0	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3484.375000	36.8	200.0	H	103.0	28.8	8.0	17.2	54
3965.000000	37.9	200.0	V	326.0	28.9	9.0	16.1	54
4776.250000	40.2	200.0	V	315.0	29.1	11.1	13.8	54
5862.500000	46.9	200.0	V	248.0	32.1	14.8	7.1	54
6996.250000	45.2	200.0	V	267.0	28.7	16.5	8.8	54
17697.500000	51.3	200.0	H	0.0	26.6	24.7	2.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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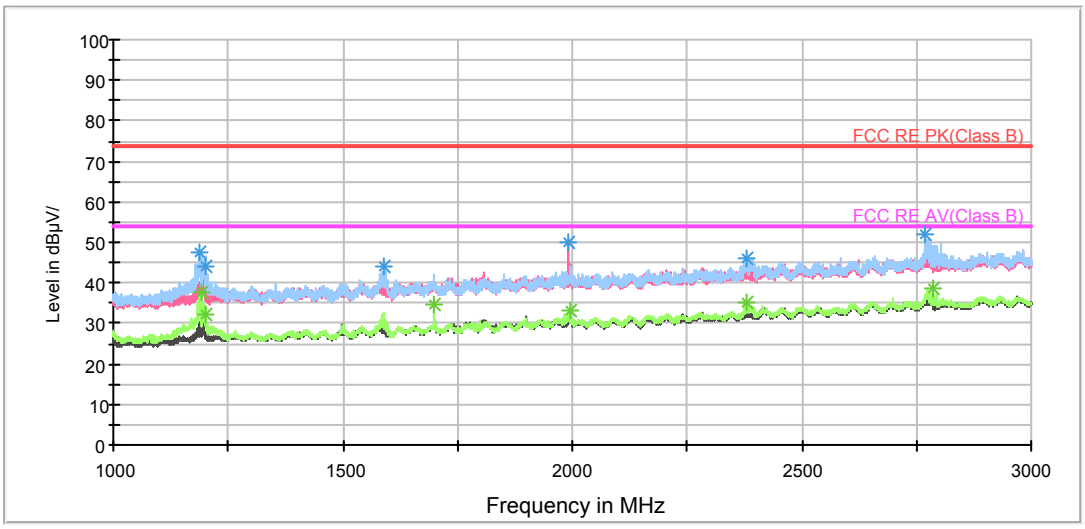
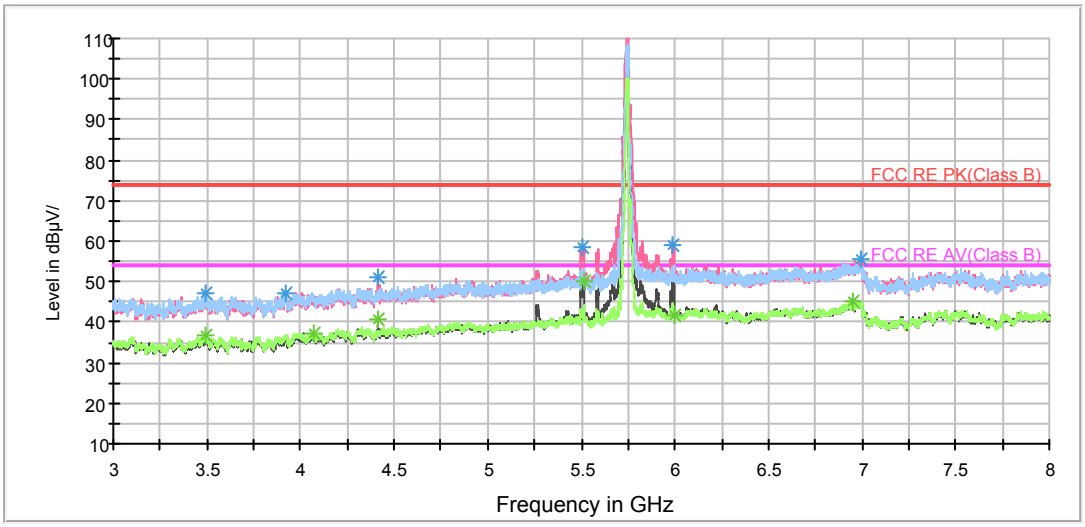
802.11n (HT20) CH149

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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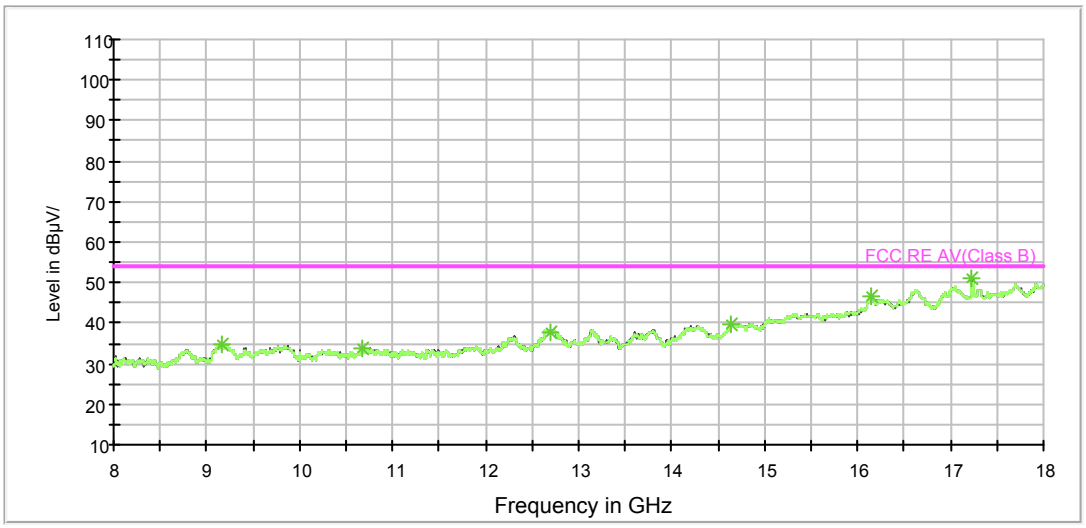
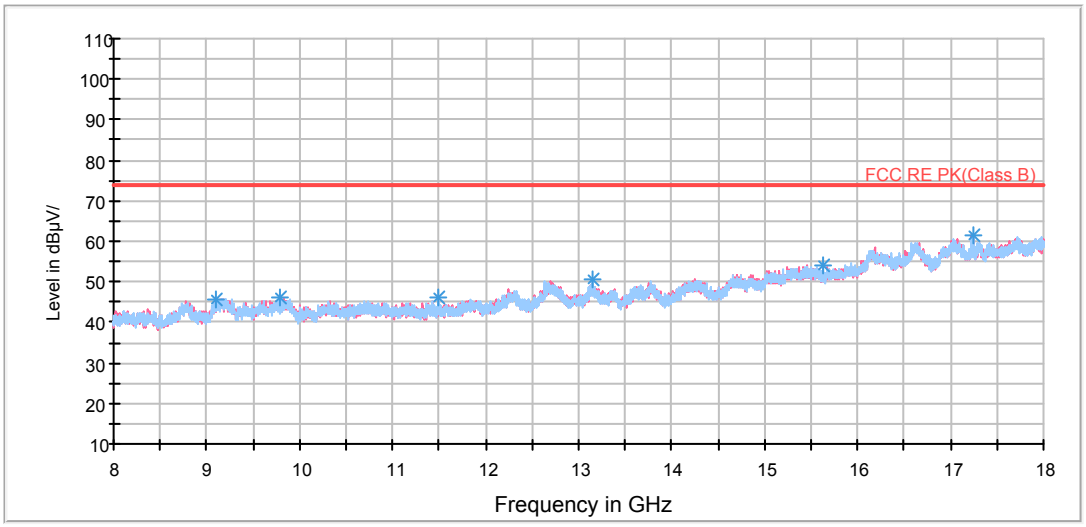
RE 3-18GHz AV



RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3491.250000	47.1	200.0	H	1.0	39.2	7.9	26.9	74
3917.500000	47.2	200.0	H	70.0	38.4	8.8	26.8	74
4415.625000	51.2	200.0	V	294.0	41.0	10.2	22.8	74
5510.625000	58.5	200.0	V	334.0	45.4	13.1	15.5	74
5991.250000	58.8	200.0	V	23.0	44.0	14.8	15.2	74
6996.250000	55.5	200.0	V	313.0	39.0	16.5	18.5	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3488.750000	36.6	200.0	H	60.0	28.6	8.0	17.4	54
4068.125000	37.3	200.0	H	272.0	28.3	9.0	16.7	54
4411.250000	40.7	200.0	V	246.0	30.5	10.2	13.3	54
5511.875000	50.1	200.0	V	256.0	37.0	13.1	3.9	54
5994.375000	41.7	200.0	H	231.0	26.8	14.9	12.3	54
6951.250000	44.9	200.0	V	334.0	28.7	16.2	9.1	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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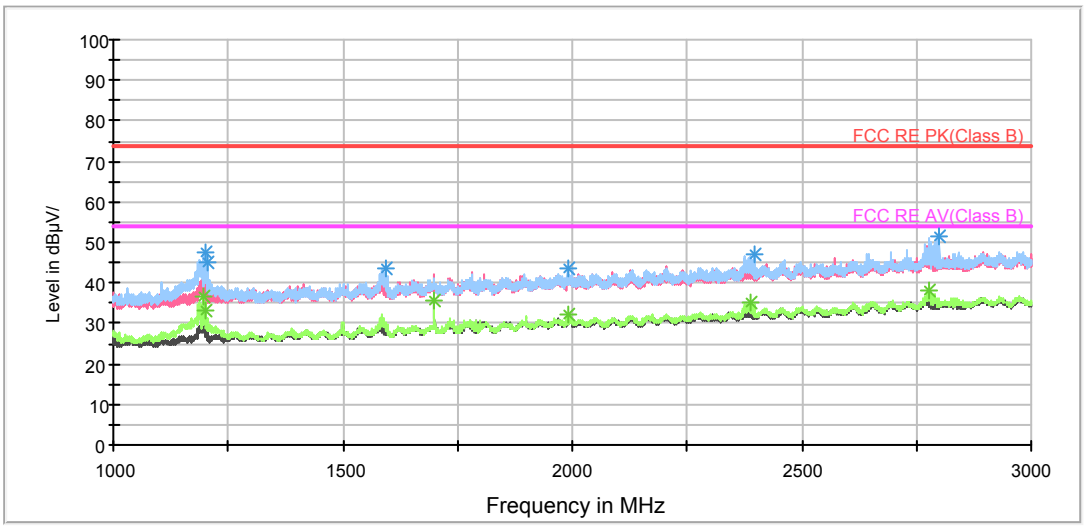
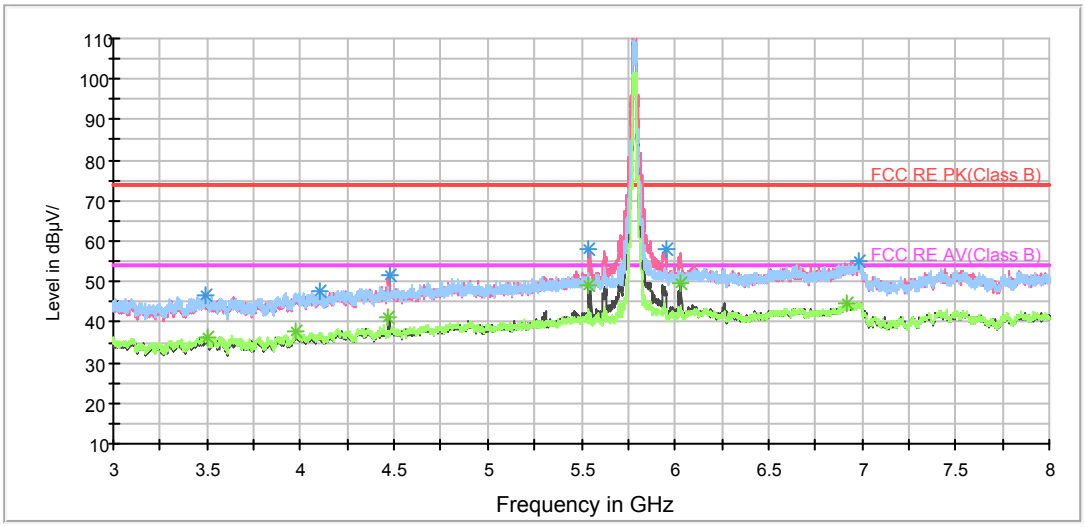
802.11n (HT20) CH157

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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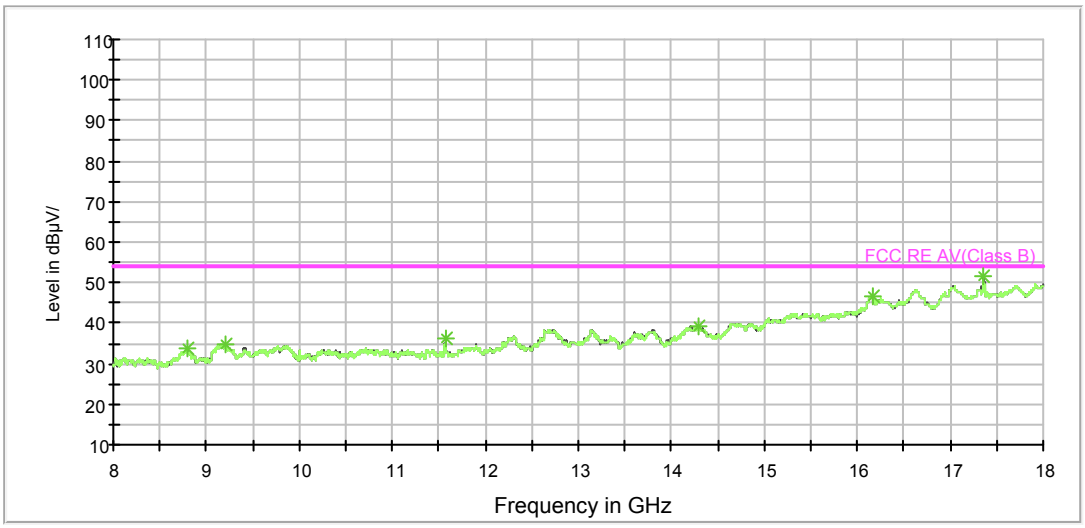
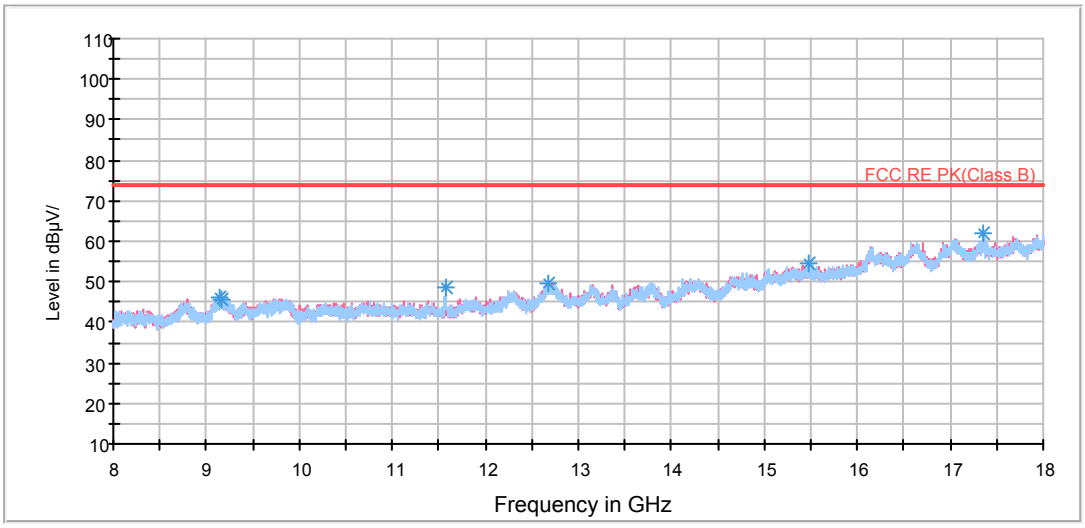
RE 3-18GHz AV



RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3496.250000	46.8	200.0	H	9.0	38.9	7.9	27.2	74
4103.125000	47.5	200.0	H	85.0	38.4	9.1	26.5	74
4474.375000	51.4	200.0	V	167.0	40.9	10.5	22.6	74
5536.250000	58.2	200.0	V	86.0	45.0	13.2	15.8	74
5952.500000	58.3	200.0	V	255.0	43.6	14.7	15.7	74
6984.375000	54.9	200.0	H	174.0	38.5	16.4	19.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3501.875000	36.5	200.0	H	0.0	28.6	7.9	17.5	54
3969.375000	37.6	200.0	H	115.0	28.5	9.1	16.4	54
4470.625000	41.2	200.0	V	255.0	30.8	10.4	12.8	54
5536.250000	48.9	200.0	V	86.0	35.7	13.2	5.1	54
6034.375000	49.5	200.0	V	167.0	34.7	14.8	4.5	54
6921.250000	44.9	200.0	V	226.0	28.7	16.2	9.1	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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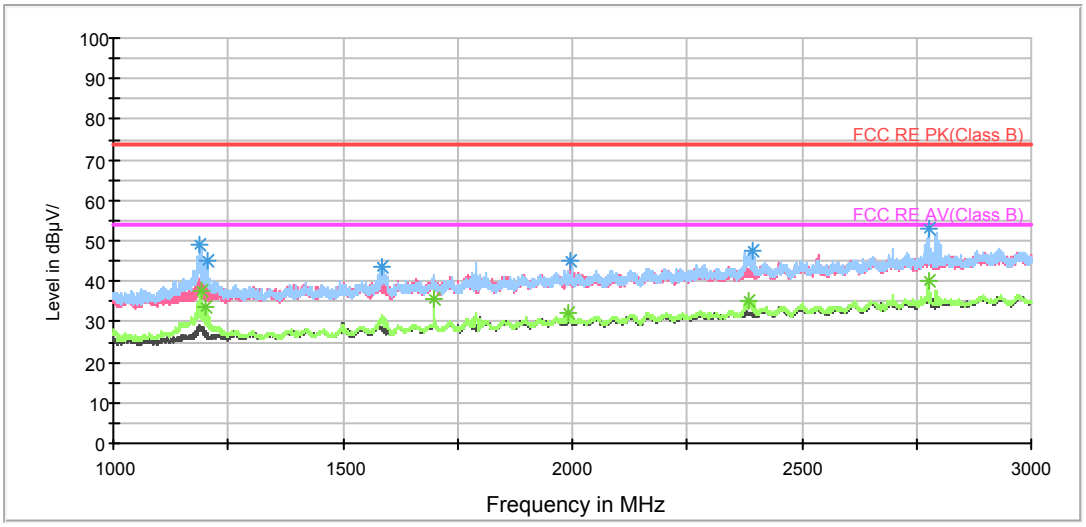
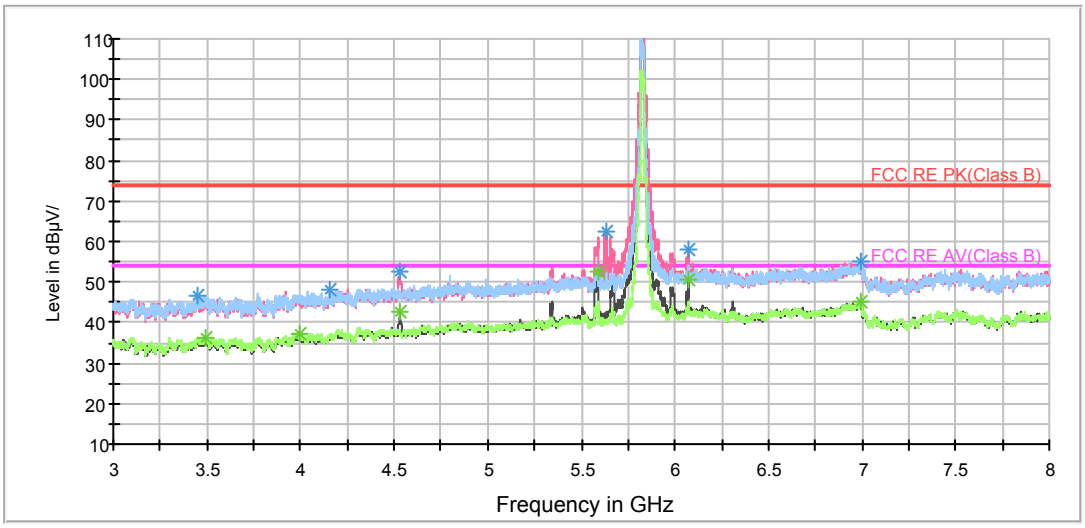
802.11n (HT20) CH165

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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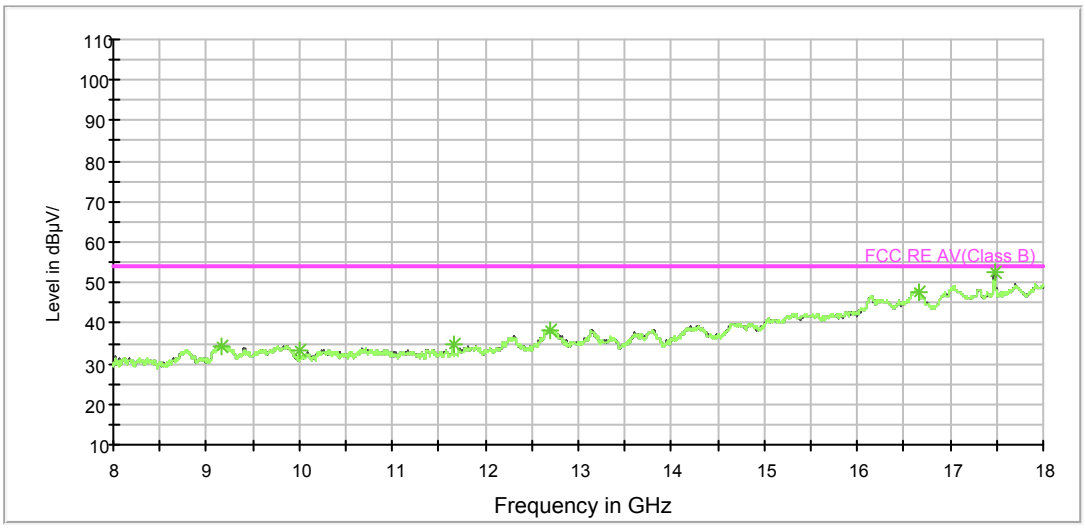
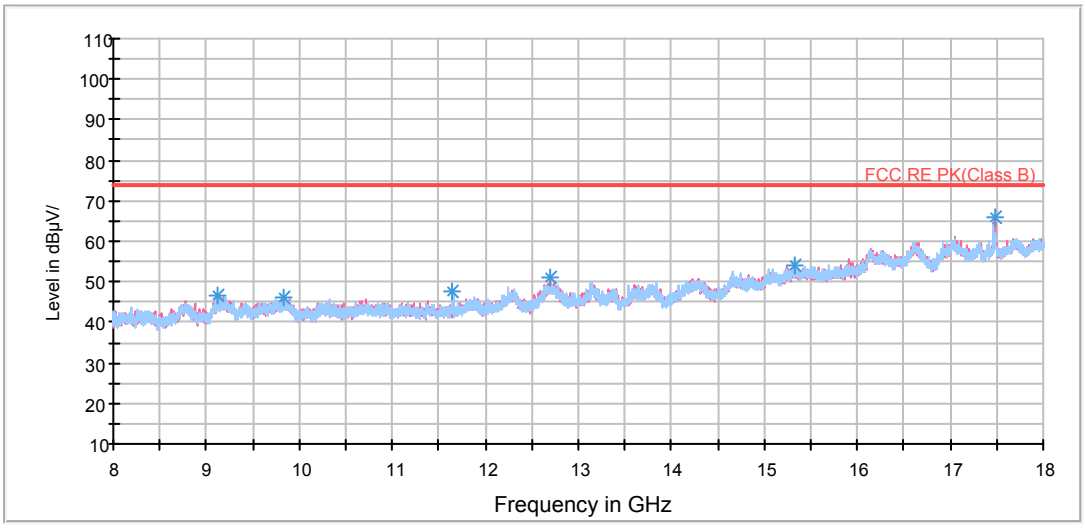
RE 3-18GHz AV



RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3451.250000	46.9	200.0	H	51.0	39.1	7.8	27.1	74
4160.000000	48.2	200.0	V	262.0	38.2	10.0	25.8	74
4531.250000	52.4	200.0	V	292.0	41.8	10.6	21.6	74
5632.500000	62.7	200.0	V	292.0	49.4	13.3	11.3	74
6076.250000	58.2	200.0	V	118.0	43.0	15.2	15.8	74
6997.500000	55.0	200.0	V	138.0	38.5	16.5	19.0	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3488.750000	36.3	200.0	H	51.0	28.3	8.0	17.7	54
4000.000000	37.3	200.0	V	158.0	28.4	8.9	16.7	54
4531.250000	42.7	200.0	V	292.0	32.1	10.6	11.3	54
5590.625000	52.6	200.0	V	98.0	39.2	13.4	1.4	54
6076.250000	50.7	200.0	V	118.0	35.5	15.2	3.3	54
6996.250000	45.3	200.0	H	41.0	28.8	16.5	8.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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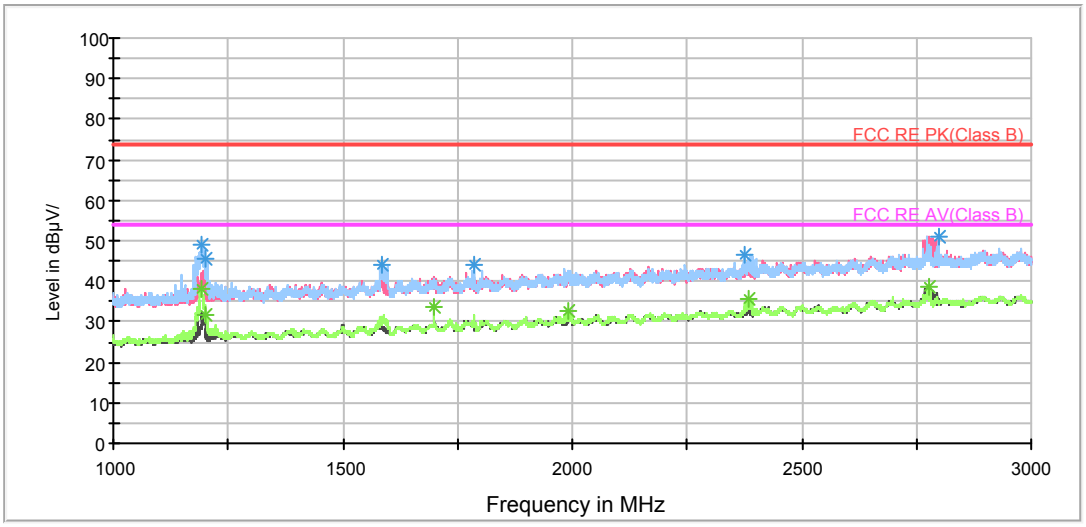
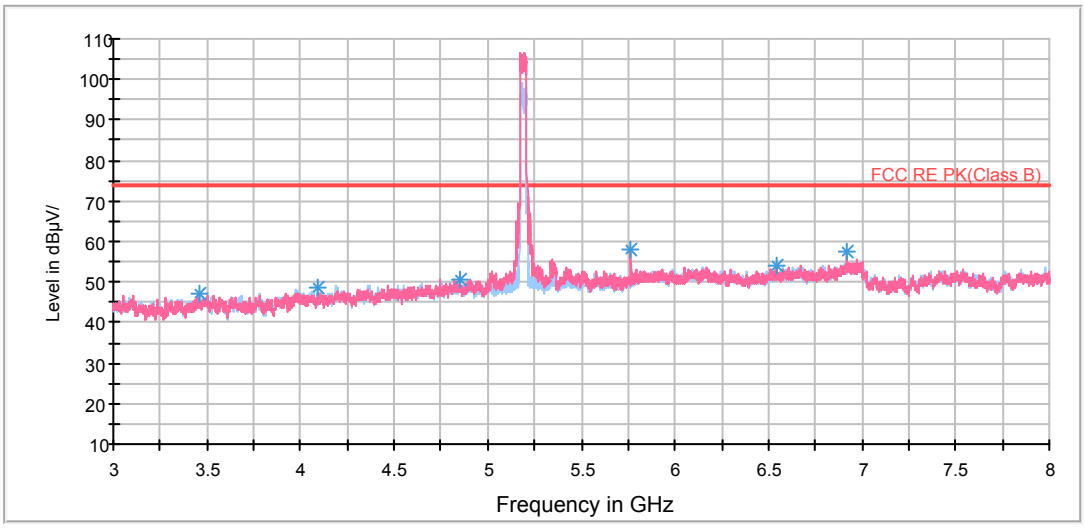
802.11n (HT40) CH38

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



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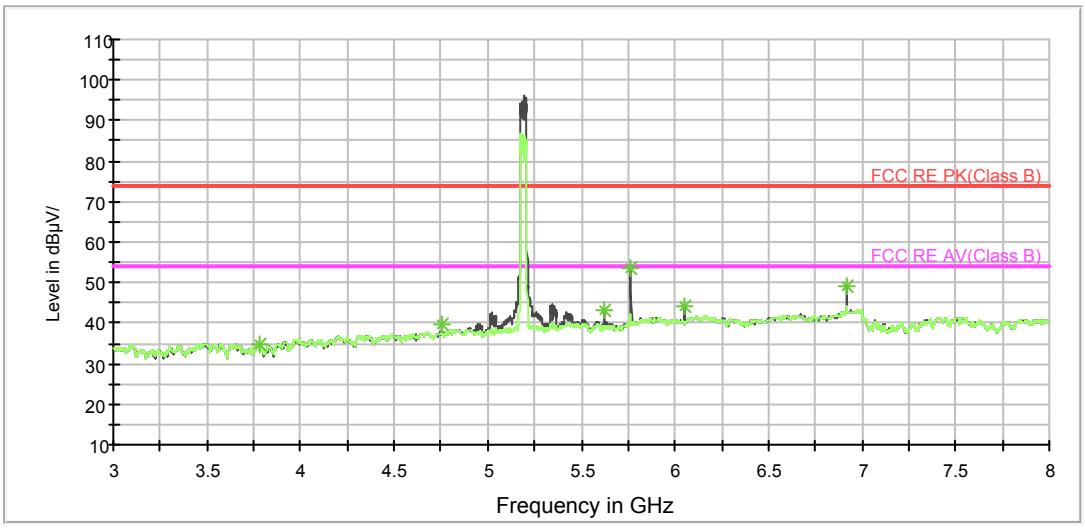
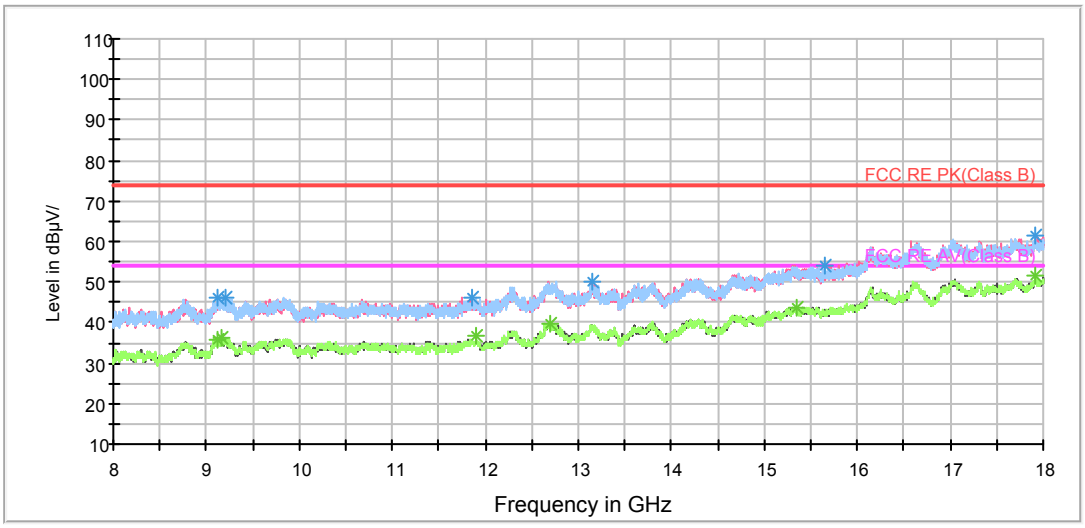
RE 3-18GHz AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3464.375000	47.0	200.0	H	345.0	39.1	7.9	27.0	74
4088.750000	48.8	200.0	H	238.0	39.7	9.1	25.2	74
4854.375000	50.6	200.0	H	335.0	39.0	11.6	23.4	74
5766.875000	58.2	200.0	V	81.0	44.5	13.7	15.8	74
6545.625000	54.0	200.0	H	218.0	38.5	15.5	20.0	74
6920.625000	57.7	200.0	V	53.0	41.5	16.2	16.3	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3776.875000	34.8	200.0	H	0.0	26.6	8.2	19.2	54
4757.500000	39.6	200.0	V	80.0	28.5	11.1	14.4	54
5622.500000	43.0	200.0	V	332.0	29.6	13.4	11.0	54
5766.875000	53.4	200.0	V	332.0	39.7	13.7	0.6	54
6055.000000	44.2	200.0	V	80.0	29.3	14.9	9.8	54
6920.000000	49.2	200.0	V	80.0	33.0	16.2	4.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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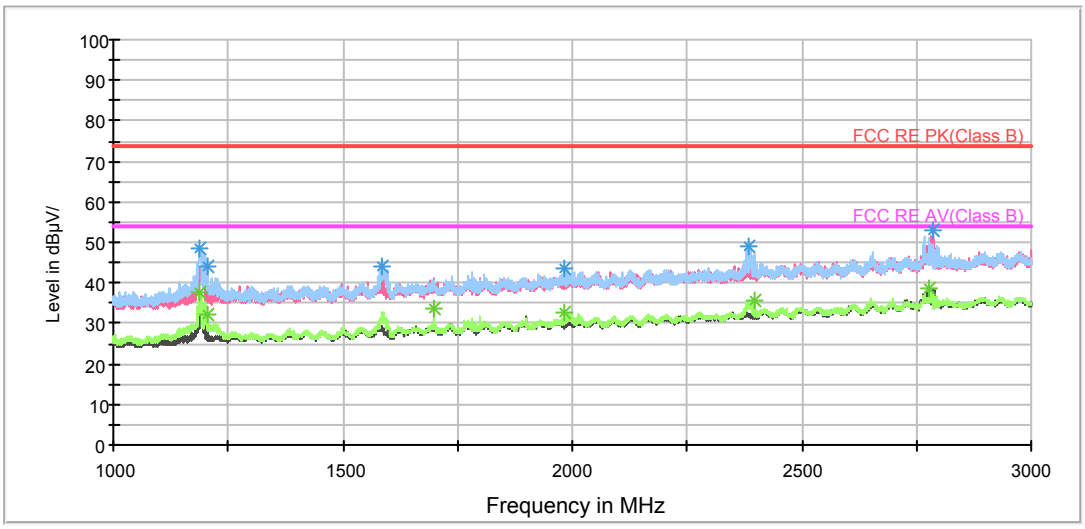
802.11n (HT40) CH46

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

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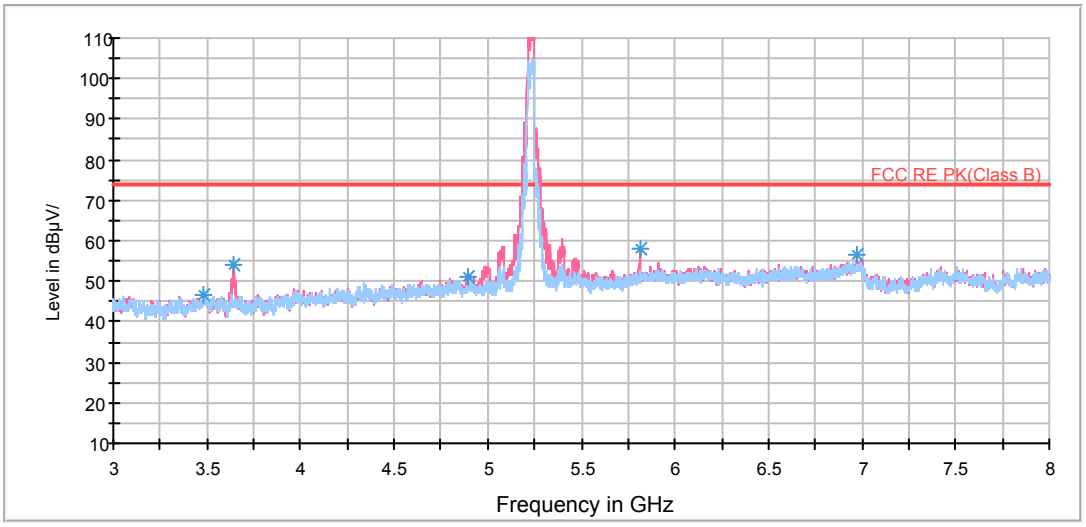
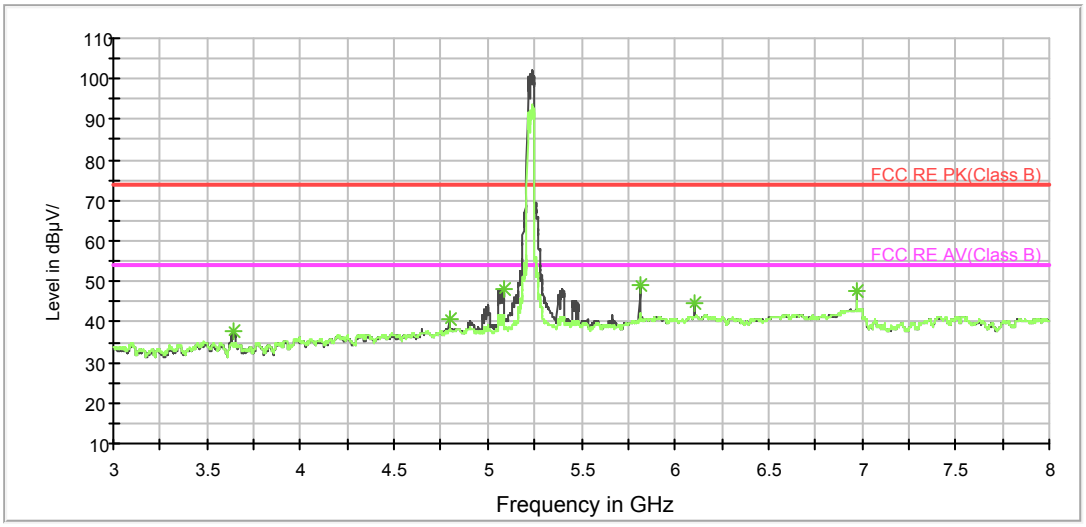
RE 3-18GHz PK+AV



RE 3-18GHz AV



Note: The signal beyond the limit is carrier.
Radiates Emission from 3GHz to 8GHz

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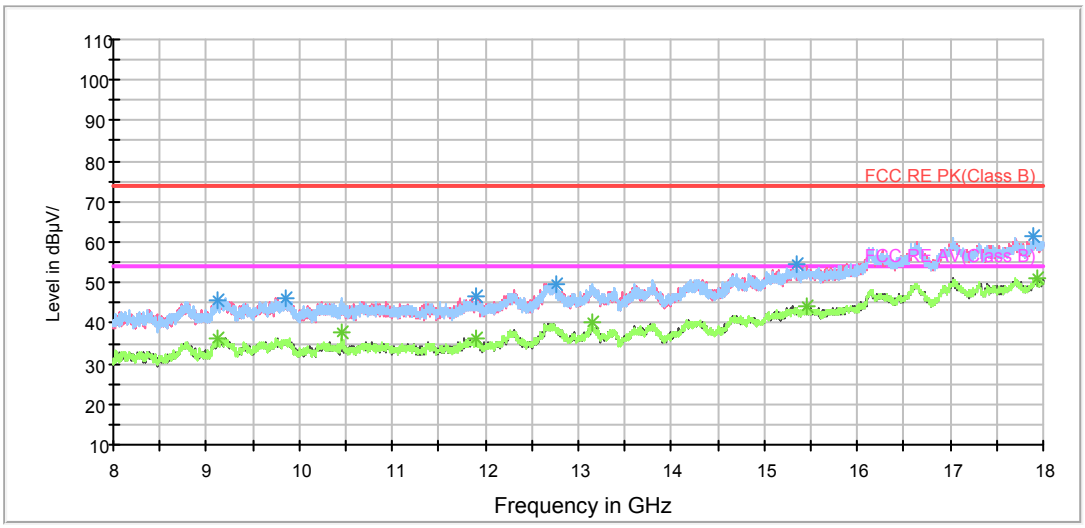
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3483.125000	46.5	200.0	V	257.0	38.5	8.0	27.5	74
3647.500000	53.9	200.0	V	97.0	45.8	8.1	20.1	74
4895.000000	51.1	200.0	V	351.0	39.2	11.9	22.9	74
5811.250000	57.9	200.0	V	247.0	43.5	14.4	16.1	74
6973.125000	56.4	200.0	V	146.0	40.1	16.3	17.6	74
17901.250000	61.4	200.0	V	145.0	36.2	25.2	12.6	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3637.500000	37.5	200.0	V	0.0	29.3	8.2	16.5	54
4793.750000	40.5	200.0	V	331.0	29.3	11.2	13.5	54
5083.750000	48.1	200.0	V	164.0	36.5	11.6	5.9	54
5811.250000	49.1	200.0	V	80.0	34.7	14.4	4.9	54
6973.750000	47.7	200.0	V	80.0	31.4	16.3	6.3	54
17925.000000	51.0	200.0	H	77.0	25.4	25.6	3.0	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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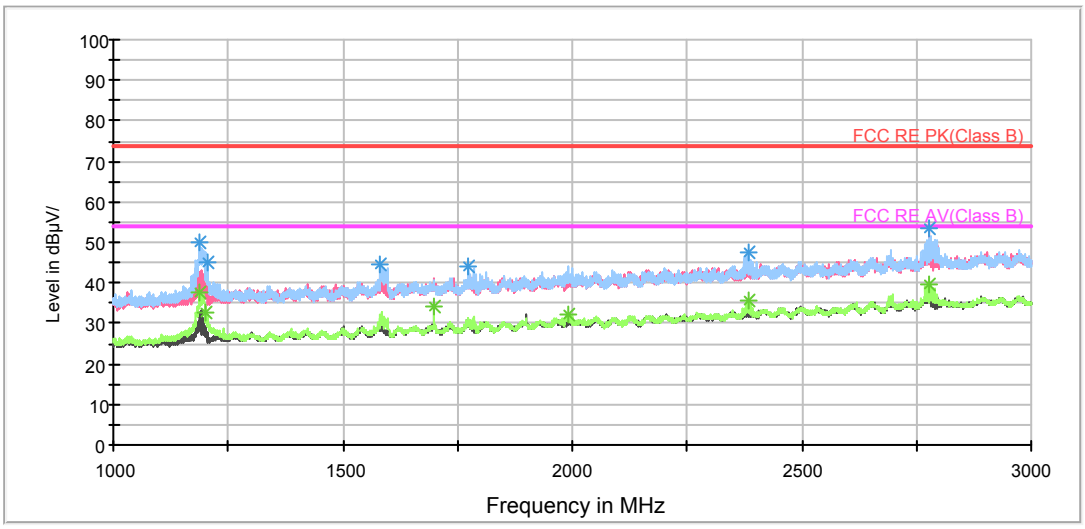
802.11n (HT40) CH54

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

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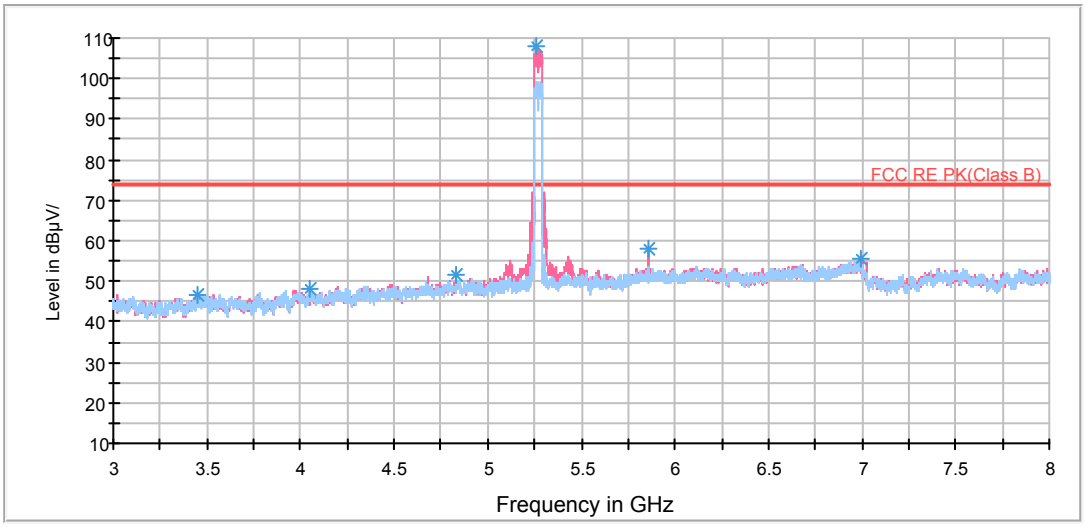
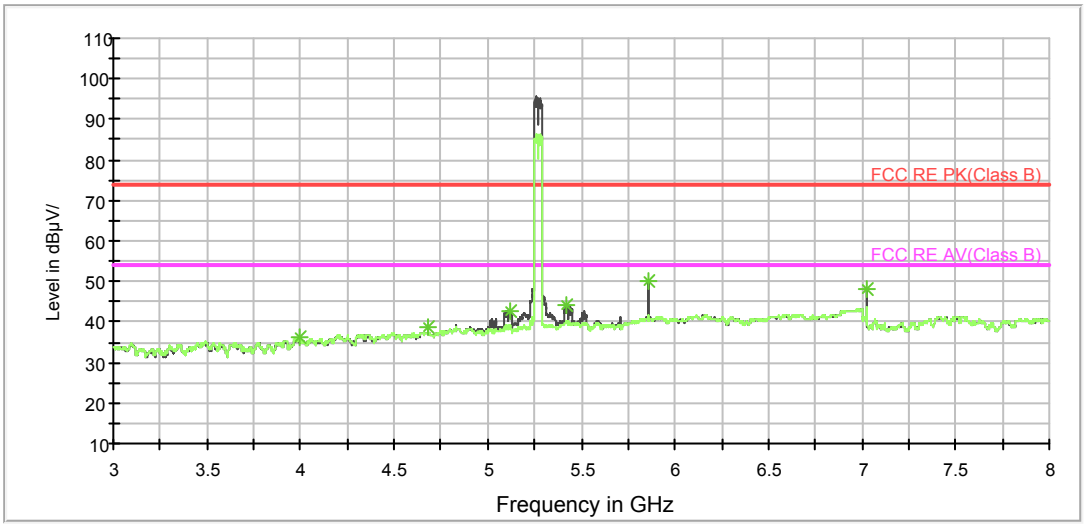
RE 3-18GHz PK+AV



RE 3-18GHz AV



Note: The signal beyond the limit is carrier.
Radiates Emission from 3GHz to 8GHz

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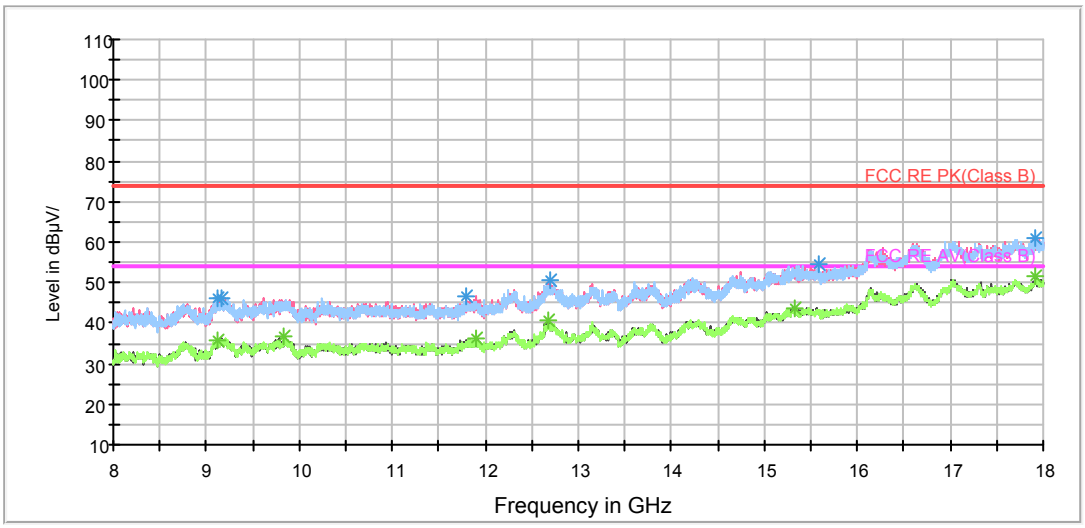
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3453.125000	46.5	200.0	H	0.0	38.7	7.8	27.5	74
4053.125000	48.3	200.0	H	276.0	39.4	8.9	25.7	74
4831.250000	51.7	200.0	V	162.0	40.2	11.5	22.3	74
5855.625000	57.8	200.0	V	81.0	43.0	14.8	16.2	74
6992.500000	55.3	200.0	V	295.0	38.8	16.5	18.7	74
17918.750000	61.2	200.0	H	291.0	35.5	25.7	12.8	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4000.000000	36.3	200.0	V	250.0	27.4	8.9	17.7	54
4684.375000	38.5	200.0	V	0.0	27.7	10.8	15.5	54
5423.750000	44.2	200.0	V	80.0	31.5	12.7	9.8	54
5855.625000	50.2	200.0	V	80.0	35.4	14.8	3.8	54
7026.875000	47.9	200.0	V	167.0	31.5	16.4	6.1	54
17922.500000	51.4	200.0	V	58.0	25.7	25.7	2.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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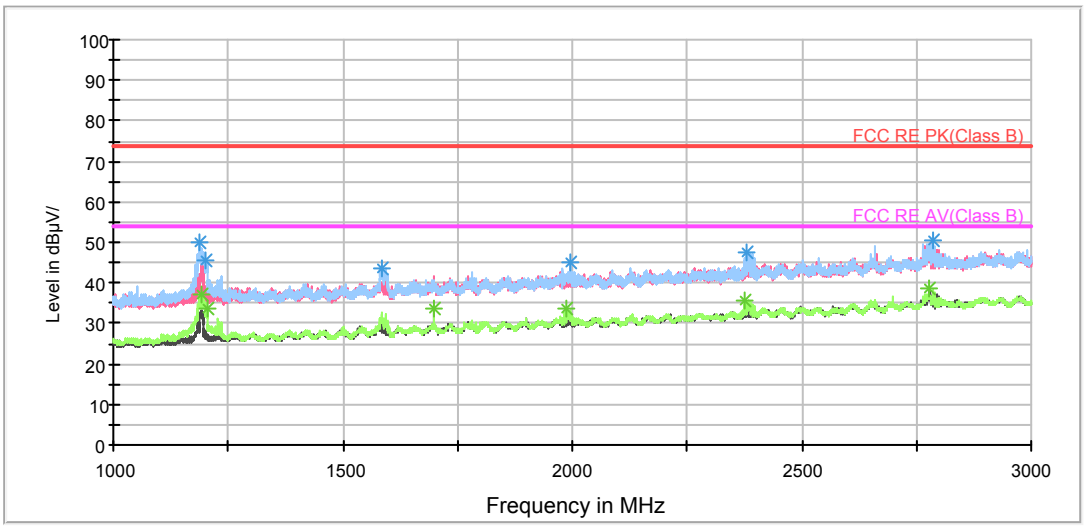
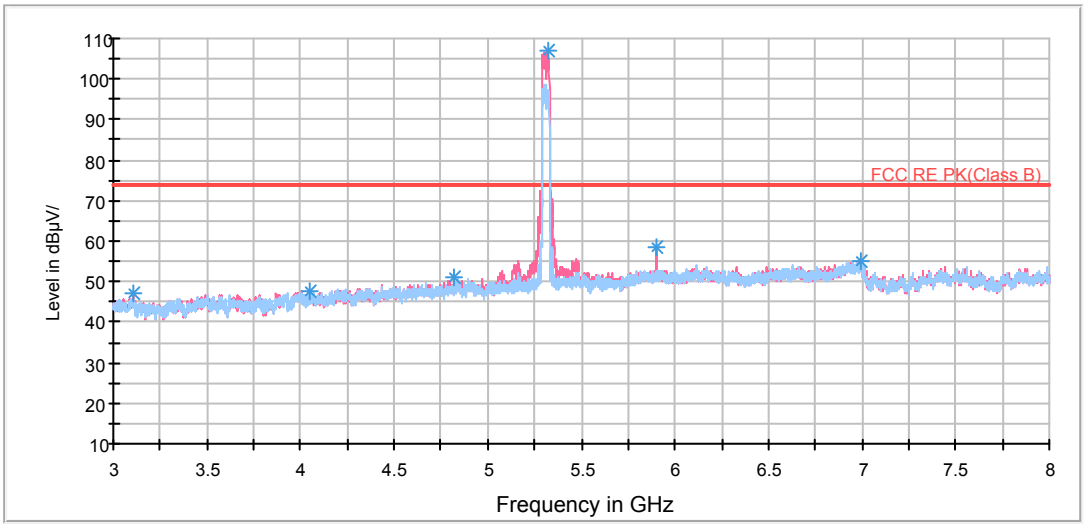
802.11n (HT40) CH62

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

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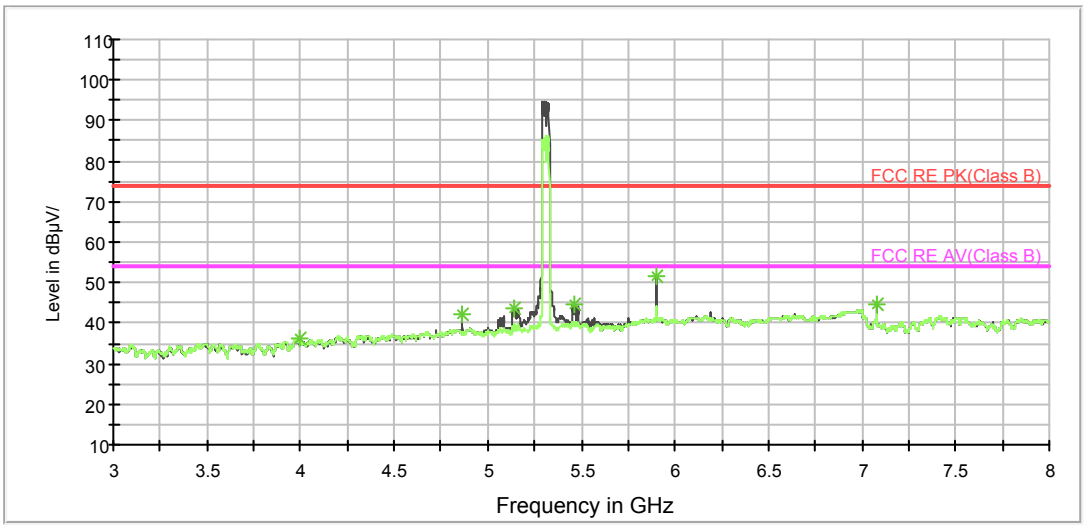
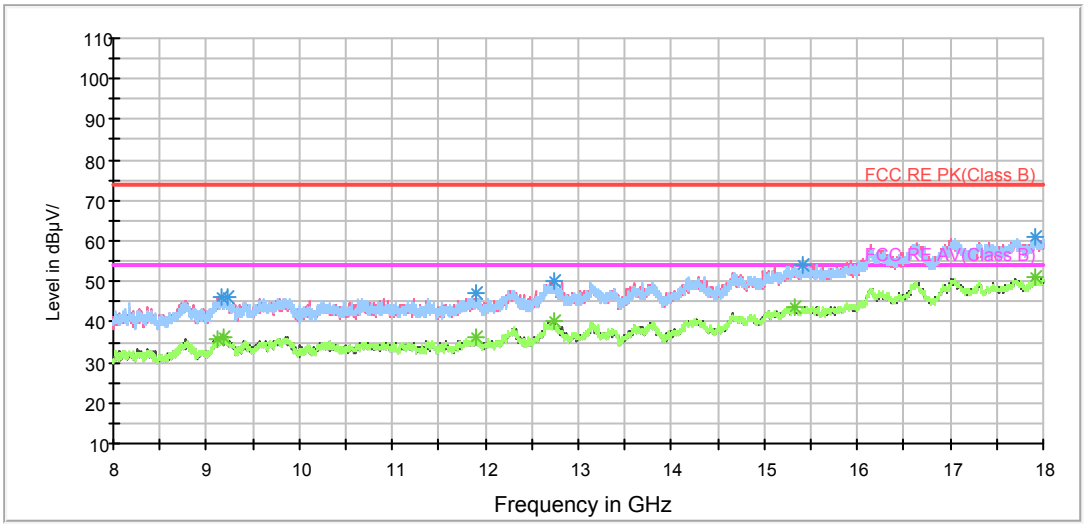
RE 3-18GHz AV



Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3103.125000	46.9	200.0	V	276.0	38.0	8.9	27.1	74
4046.875000	47.6	200.0	H	65.0	35.9	11.7	26.4	74
4821.875000	51.2	200.0	V	55.0	39.2	12.0	22.8	74
5900.625000	58.4	200.0	V	256.0	43.6	14.8	15.6	74
6992.500000	54.9	200.0	V	0.0	38.7	16.2	19.1	74
17912.500000	61.0	200.0	V	316.0	35.5	25.5	13.0	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4000.000000	36.2	200.0	V	248.0	27.3	8.9	17.8	54
4867.500000	41.9	200.0	V	80.0	30.2	11.7	12.1	54
5145.625000	43.5	200.0	V	163.0	31.5	12.0	10.5	54
5458.750000	44.5	200.0	V	248.0	31.7	12.8	9.5	54
5900.000000	51.4	200.0	V	163.0	36.6	14.8	2.6	54
7080.000000	44.5	200.0	V	163.0	28.3	16.2	9.5	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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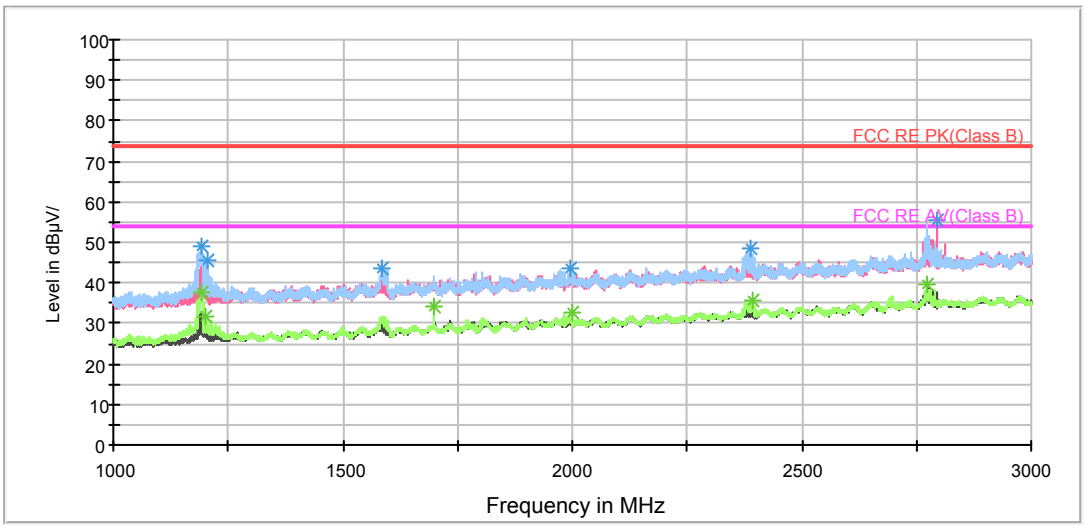
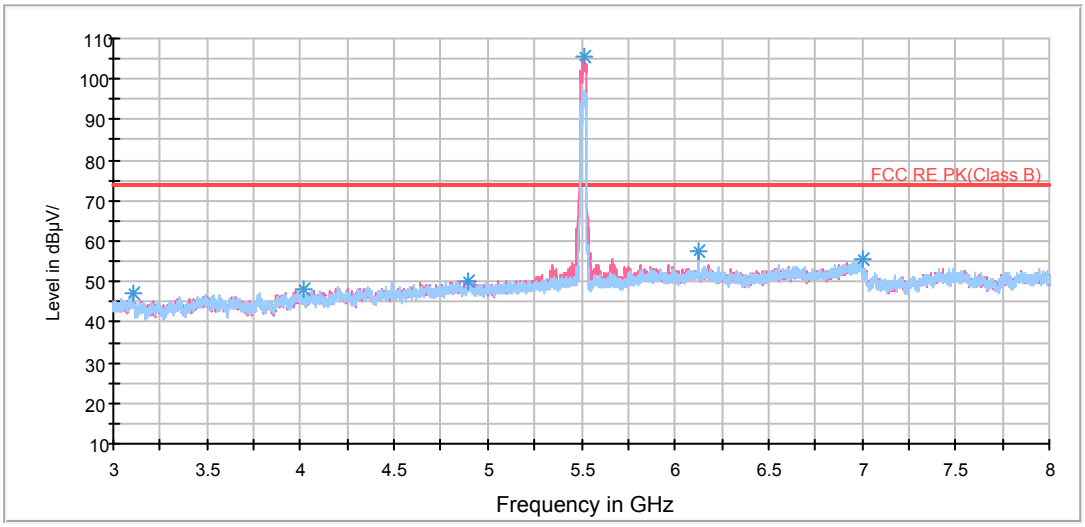
802.11n (HT40) CH102

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



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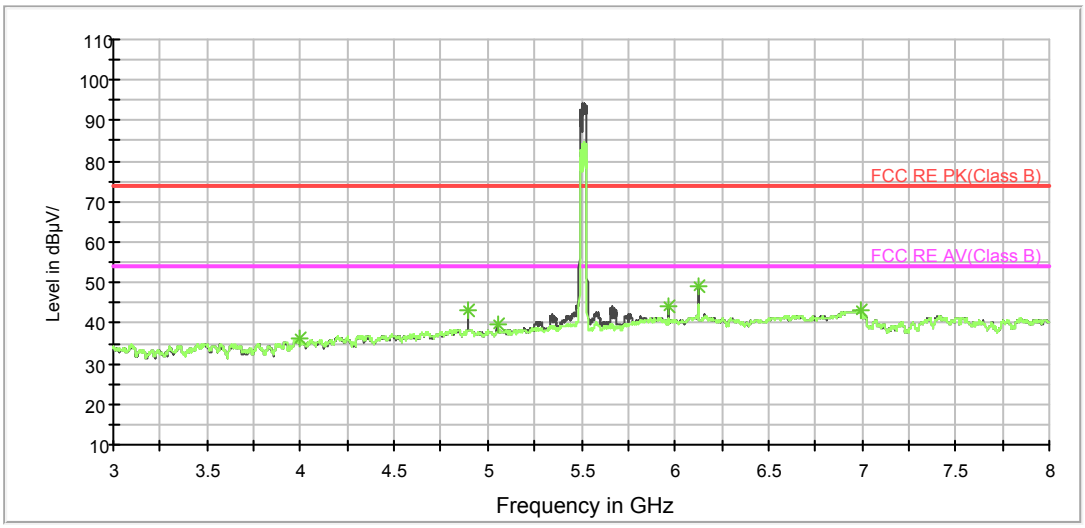
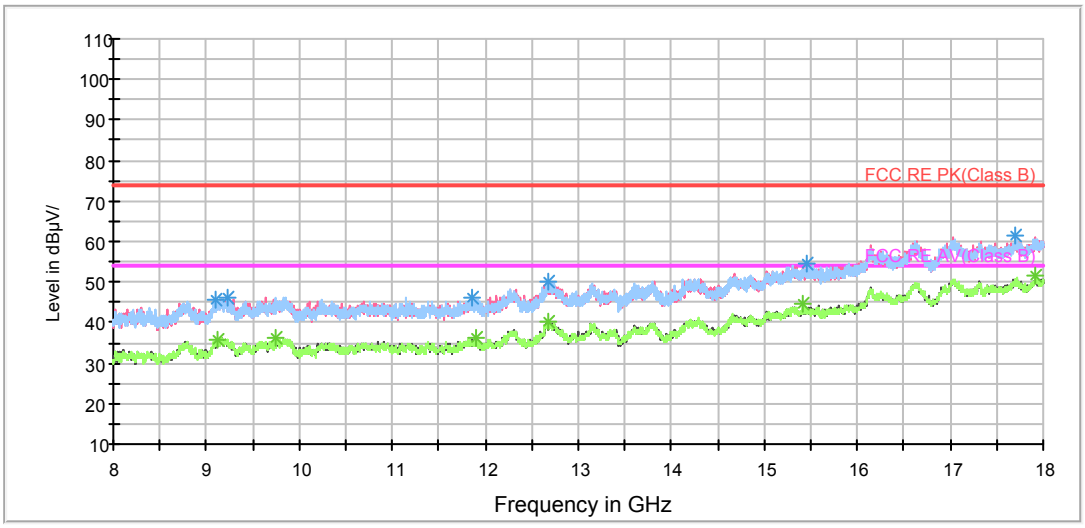
RE 3-18GHz AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3101.875000	47.0	200.0	H	171.0	39.8	7.2	27.0	74
4012.500000	48.1	200.0	H	25.0	39.2	8.9	25.9	74
4897.500000	50.3	200.0	V	333.0	38.4	11.9	23.7	74
6122.500000	57.5	200.0	V	67.0	42.1	15.4	16.5	74
7000.000000	55.3	200.0	V	67.0	38.7	16.6	18.7	74
17696.250000	61.3	200.0	V	114.0	36.6	24.7	12.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4000.000000	36.2	200.0	V	247.0	27.3	8.9	17.8	54
4897.500000	43.0	200.0	V	80.0	31.1	11.9	11.0	54
5050.625000	39.8	200.0	V	0.0	28.2	11.6	14.2	54
5969.375000	44.1	200.0	V	0.0	29.4	14.7	9.9	54
6122.500000	48.9	200.0	V	164.0	33.5	15.4	5.1	54
6998.125000	43.4	200.0	V	0.0	26.9	16.5	10.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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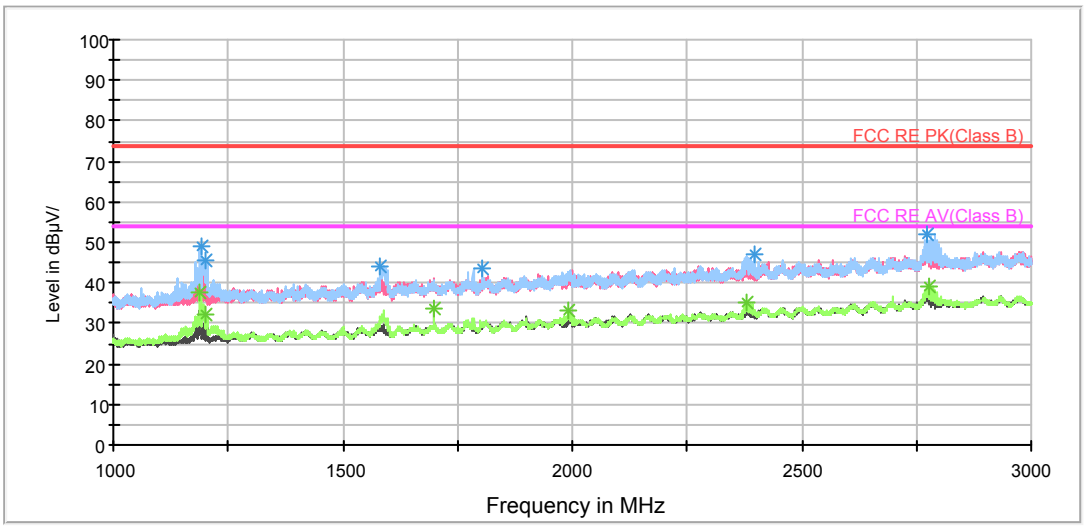
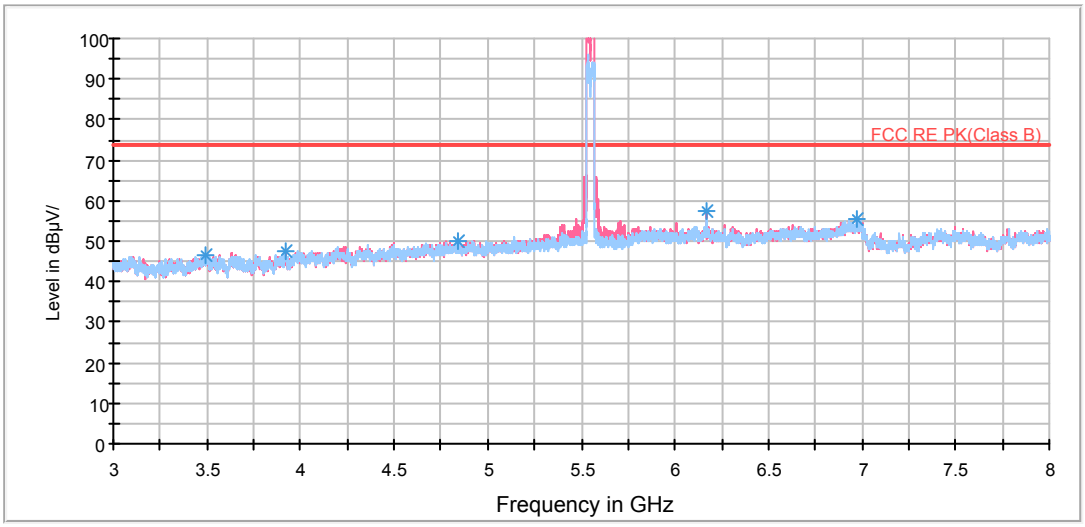
802.11n (HT40) CH110

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



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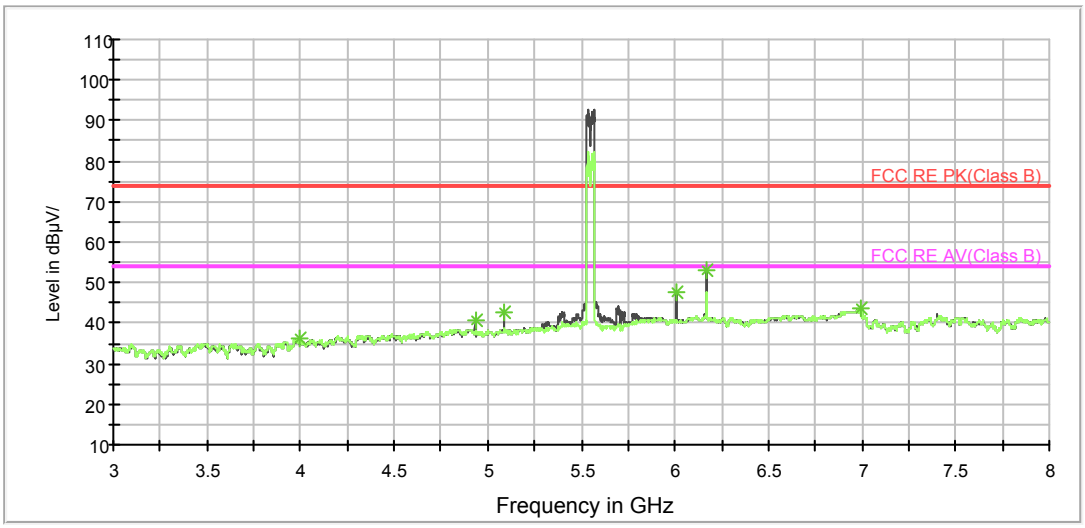
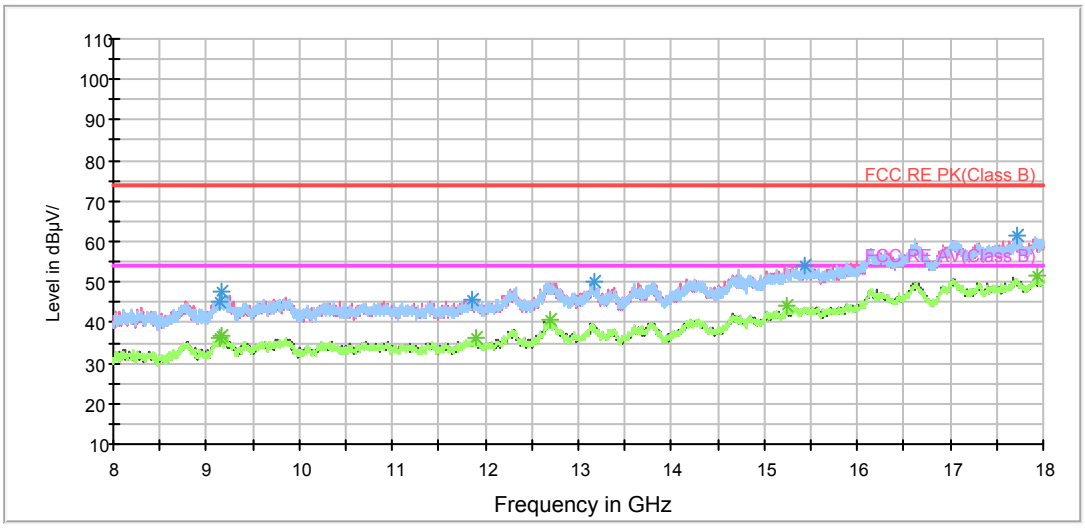
RE 3-18GHz AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3488.750000	46.6	200.0	H	141.0	38.6	8.0	27.4	74
3923.125000	47.4	200.0	V	286.0	38.6	8.8	26.6	74
4841.875000	49.9	200.0	V	140.0	38.3	11.6	24.1	74
6166.875000	57.6	200.0	V	307.0	42.0	15.6	16.4	74
6968.750000	55.3	200.0	H	0.0	39.0	16.3	18.7	74
17712.500000	61.5	200.0	H	0.0	36.9	24.6	12.5	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4000.000000	36.2	200.0	V	248.0	27.3	8.9	17.8	54
4933.125000	40.8	200.0	V	248.0	28.9	11.9	13.2	54
5087.500000	42.4	200.0	V	164.0	30.7	11.7	11.6	54
6012.500000	47.4	200.0	V	331.0	32.6	14.8	6.6	54
6166.875000	52.8	200.0	V	80.0	37.2	15.6	1.2	54
6996.250000	43.5	200.0	V	164.0	27.0	16.5	10.5	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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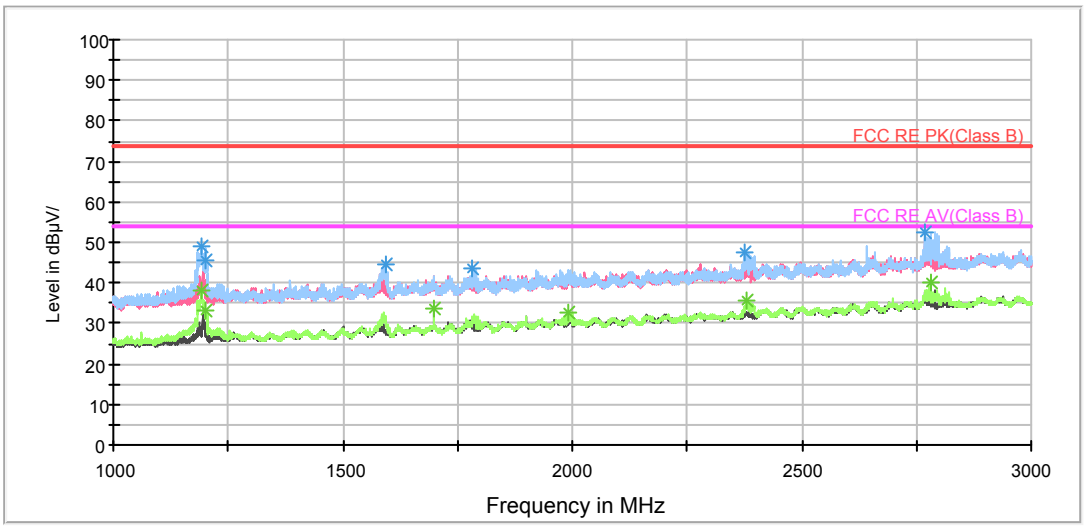
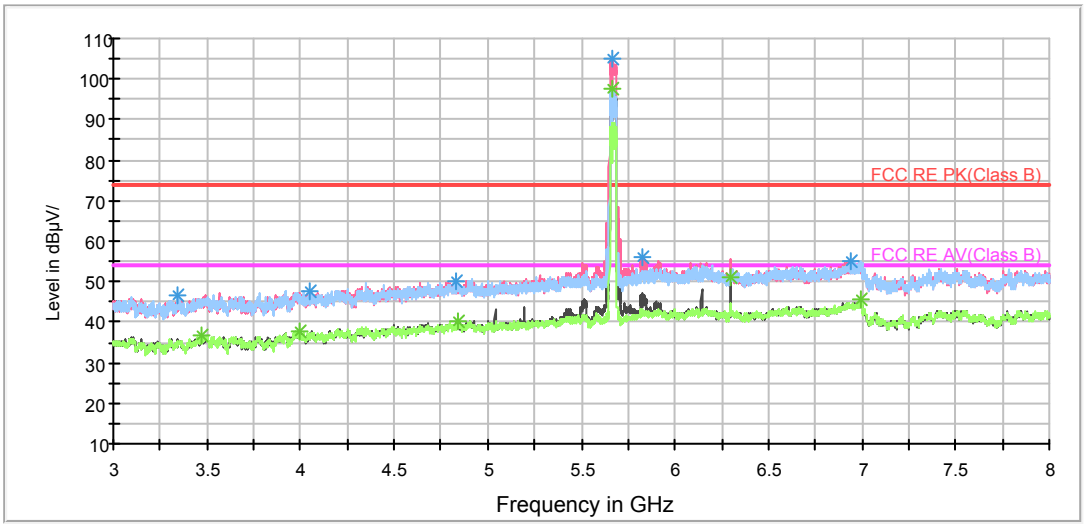
802.11n (HT40) CH134

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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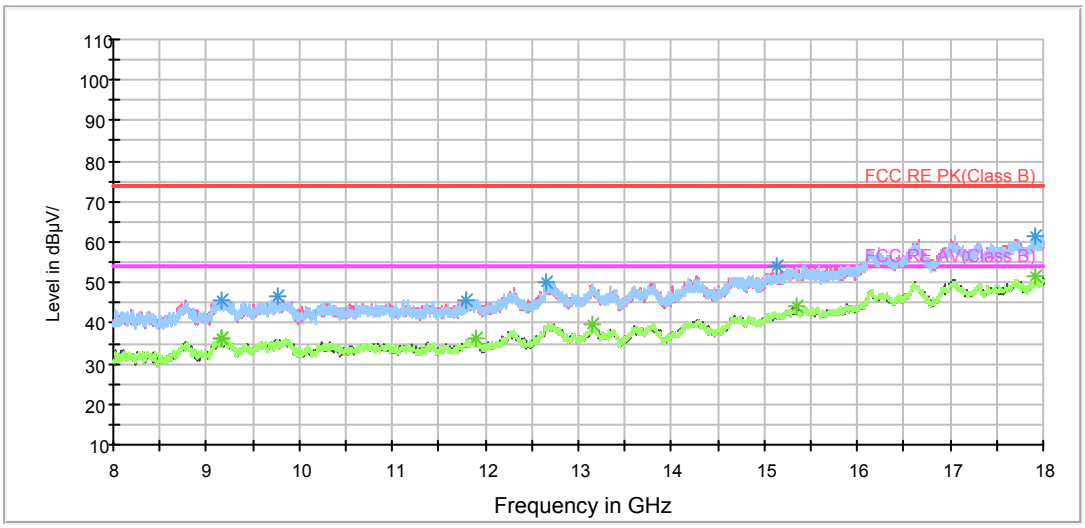
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3343.125000	46.5	200.0	H	69.0	38.9	7.6	27.5	74
4054.375000	47.7	200.0	V	0.0	38.8	8.9	26.3	74
4832.500000	50.3	200.0	H	30.0	38.8	11.5	23.7	74
5823.750000	55.9	200.0	V	331.0	41.4	14.5	18.1	74
6939.375000	55.1	200.0	V	254.0	39.0	16.1	18.9	74
17920.000000	61.5	200.0	H	96.0	35.7	25.8	12.5	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3472.500000	36.5	200.0	H	224.0	28.6	7.9	17.5	54
4000.000000	37.8	200.0	V	148.0	28.9	8.9	16.2	54
4845.000000	40.1	200.0	V	119.0	28.5	11.6	13.9	54
6300.000000	51.2	200.0	V	0.0	35.8	15.4	2.8	54
6996.250000	45.5	200.0	V	66.0	29.0	16.5	8.5	54
17911.250000	51.3	200.0	V	81.0	25.8	25.5	2.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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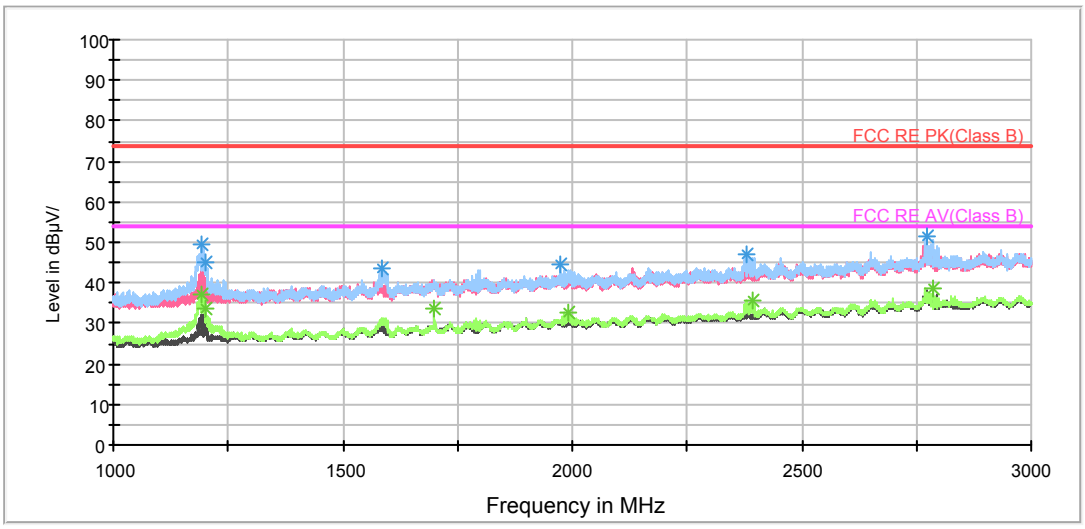
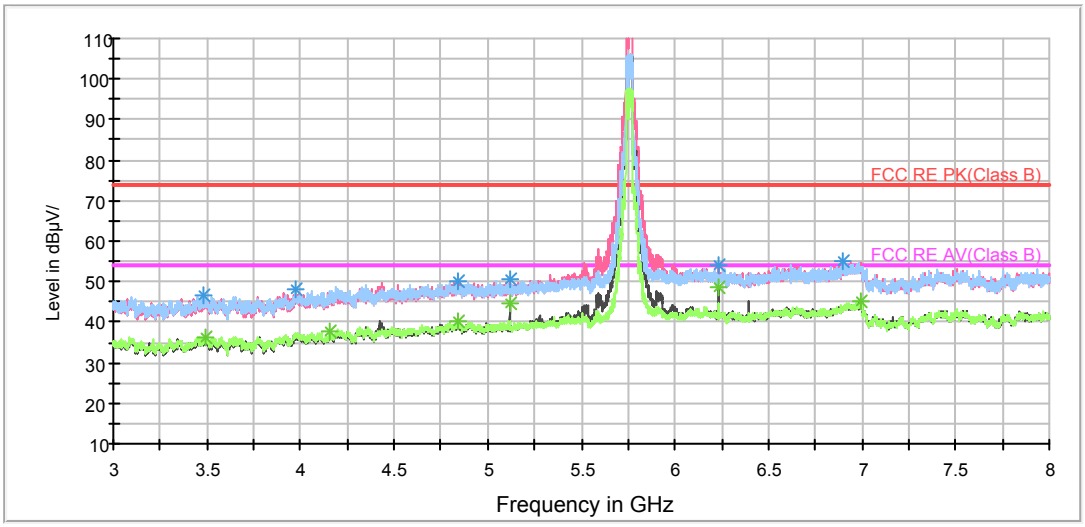
802.11n (HT40) CH151

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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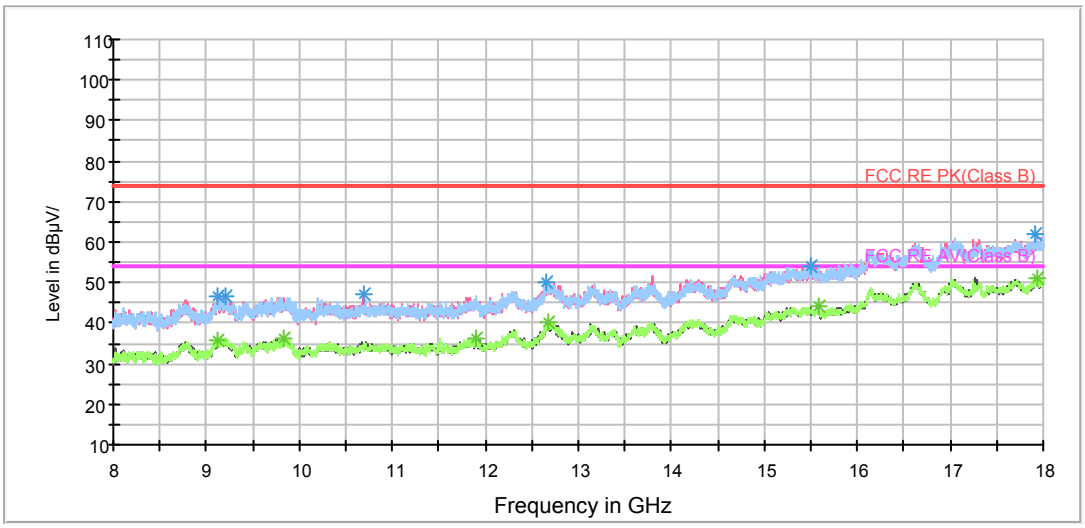
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3485.625000	46.8	200.0	H	0.0	38.8	8.0	27.2	74
3976.250000	48.2	200.0	H	77.0	39.1	9.1	25.8	74
4843.750000	50.3	200.0	H	96.0	38.7	11.6	23.7	74
5115.625000	50.4	200.0	V	330.0	38.6	11.8	23.6	74
6234.375000	54.0	200.0	V	311.0	38.7	15.3	20.0	74
6898.125000	55.1	200.0	H	0.0	38.9	16.2	18.9	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3488.750000	36.2	200.0	H	199.0	28.2	8.0	17.8	54
4154.375000	37.7	200.0	H	40.0	27.8	9.9	16.3	54
4842.500000	40.3	200.0	H	0.0	28.7	11.6	13.7	54
5115.625000	44.5	200.0	V	330.0	32.7	11.8	9.5	54
6234.375000	48.8	200.0	V	311.0	33.5	15.3	5.2	54
6989.375000	45.1	200.0	V	0.0	28.7	16.4	8.9	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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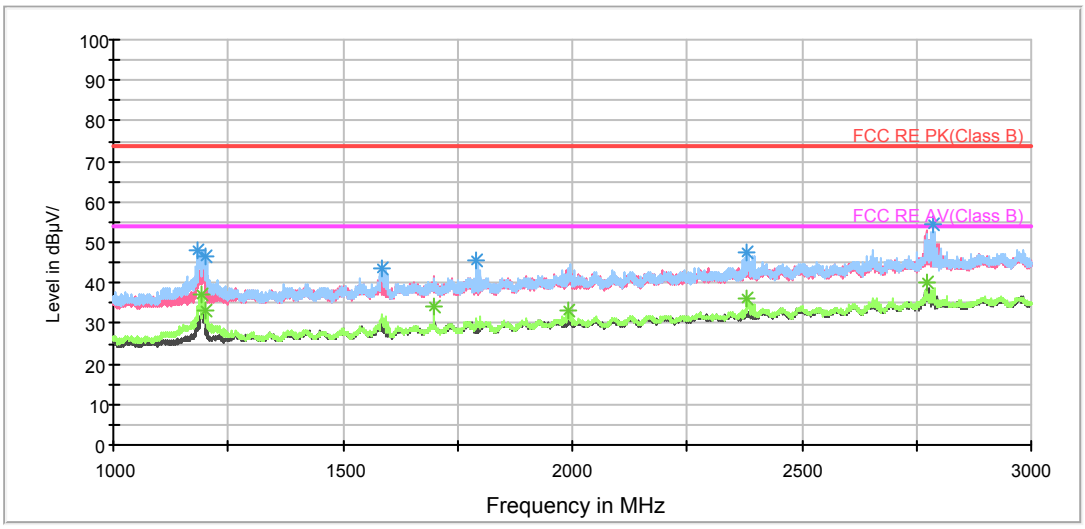
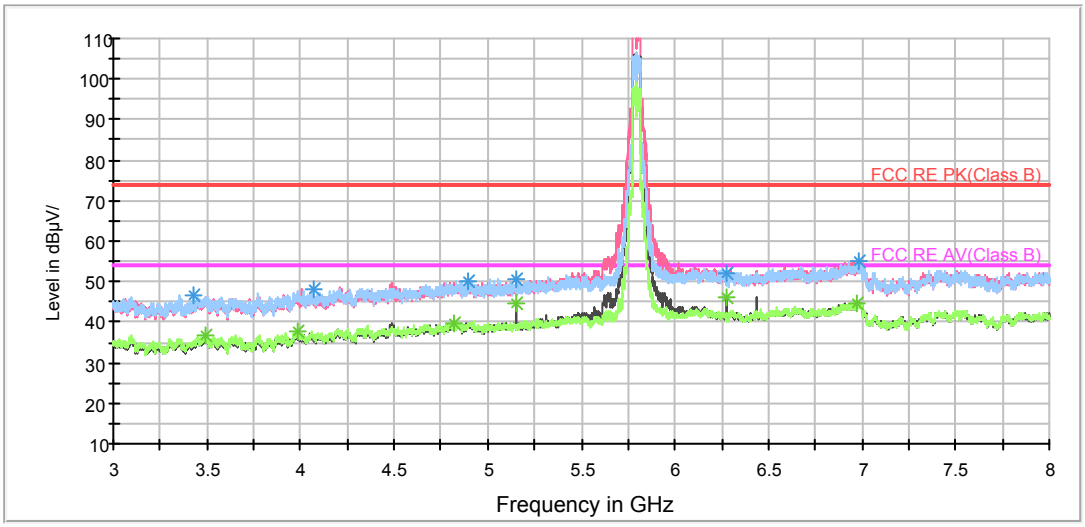
802.11n (HT40) CH159

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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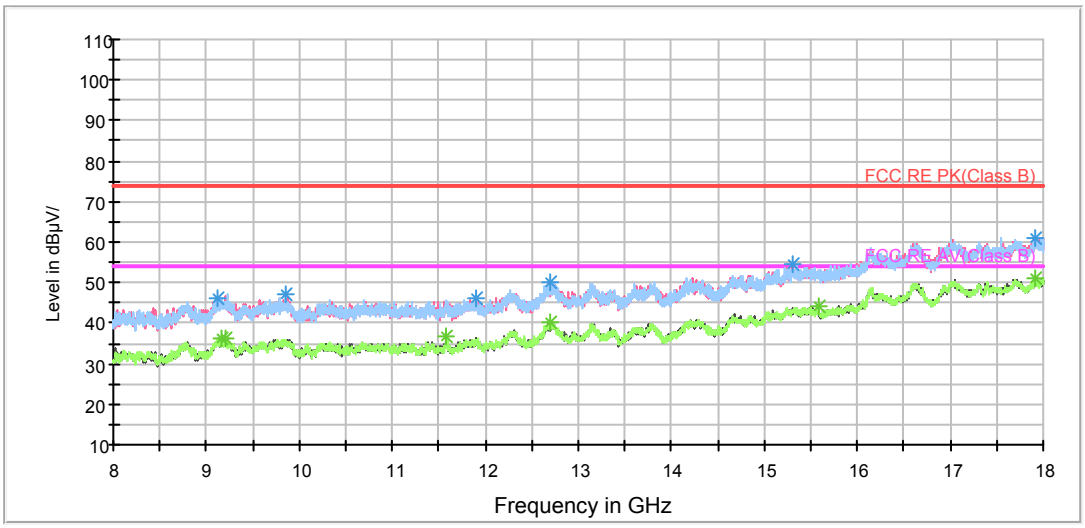
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3425.625000	46.5	200.0	H	0.0	39.0	7.5	27.5	74
4067.500000	48.3	200.0	H	89.0	39.3	9.0	25.7	74
4895.000000	50.1	200.0	H	118.0	38.2	11.9	23.9	74
6983.750000	55.1	200.0	H	256.0	38.7	16.4	18.9	74
5150.625000	50.7	200.0	V	318.0	38.7	12.0	23.3	74
6278.125000	52.3	200.0	V	161.0	37.0	15.3	21.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3488.125000	36.5	200.0	H	31.0	28.5	8.0	17.5	54
3984.375000	37.8	200.0	H	40.0	28.8	9.0	16.2	54
4821.250000	39.9	200.0	H	138.0	28.6	11.3	14.1	54
6974.375000	44.7	200.0	H	108.0	28.4	16.3	9.3	54
5151.250000	44.7	200.0	V	318.0	32.7	12.0	9.3	54
6278.125000	46.3	200.0	V	161.0	31.0	15.3	7.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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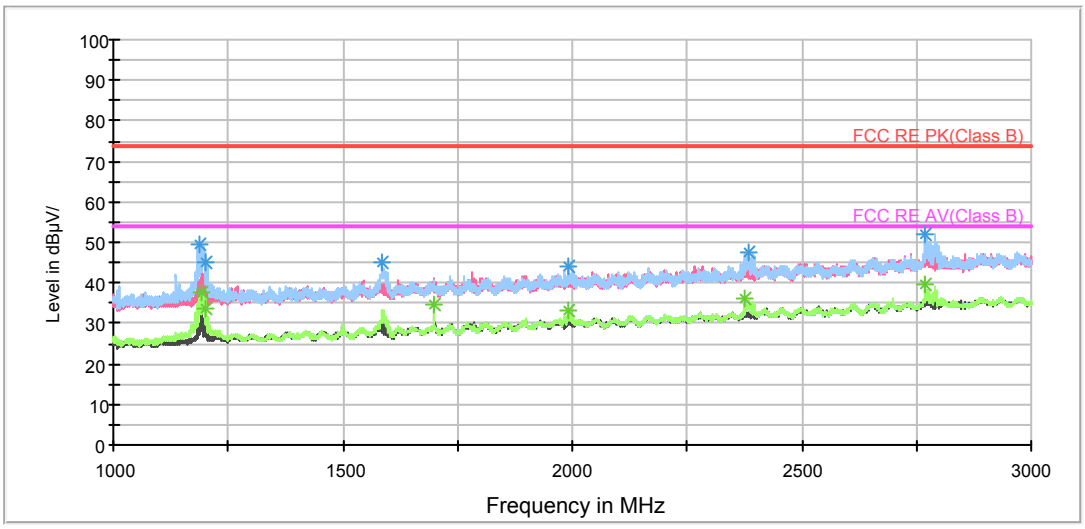
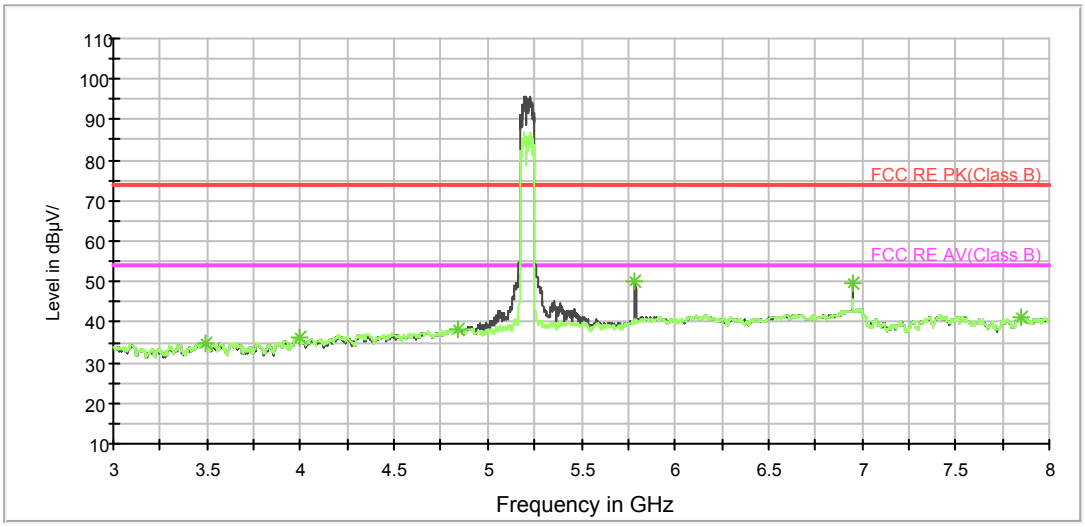
802.11ac (HT80) CH42

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz AV



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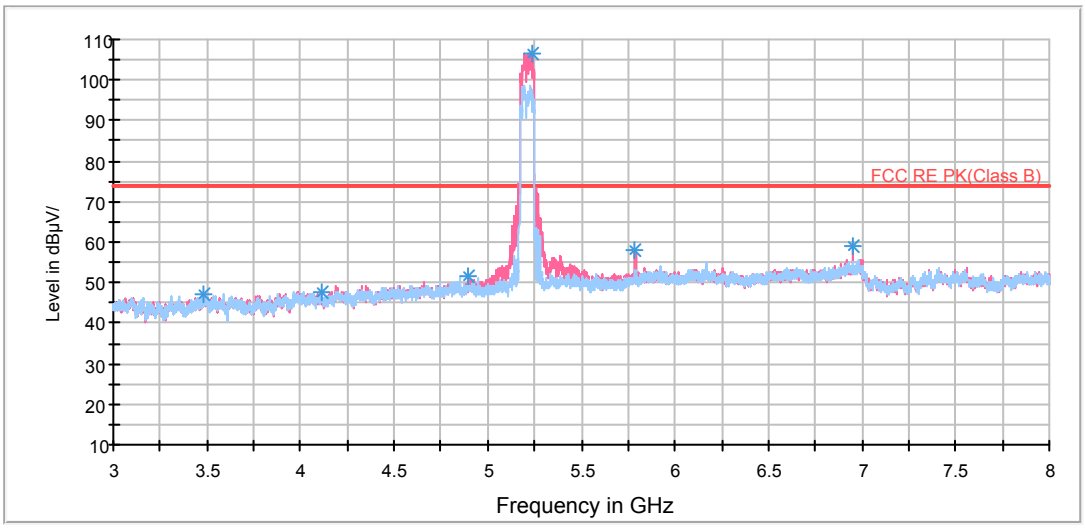
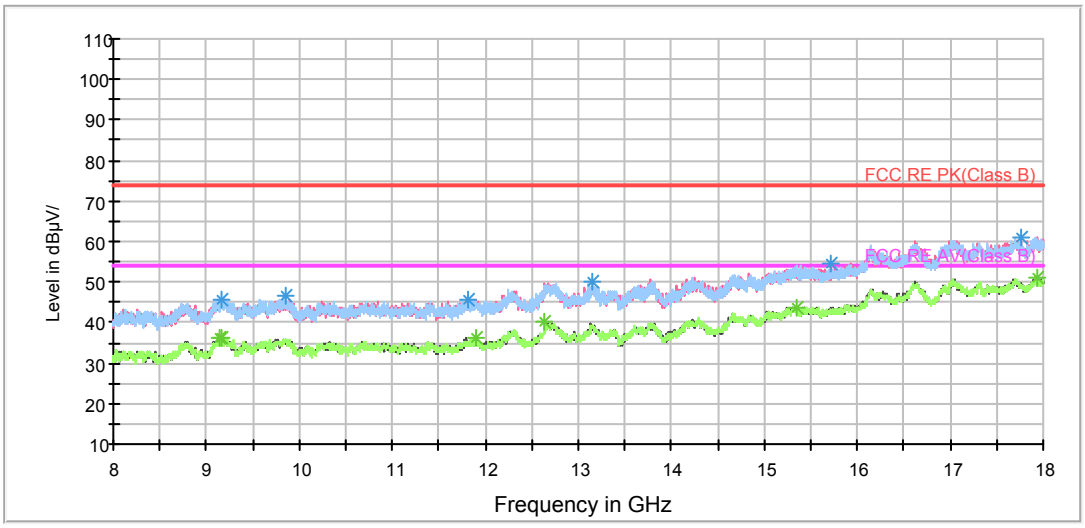
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3486.875000	47.1	200.0	V	295.0	39.1	8.0	26.9	74
4114.375000	47.7	200.0	H	44.0	38.3	9.4	26.3	74
4896.875000	51.4	200.0	H	64.0	39.5	11.9	22.6	74
5788.750000	58.2	200.0	V	325.0	44.1	14.1	15.8	74
6946.875000	58.9	200.0	V	223.0	42.7	16.2	15.1	74
17752.500000	61.1	200.0	H	17.0	36.9	24.2	12.9	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3489.375000	35.0	200.0	H	0.0	27.0	8.0	19.0	54
4000.000000	36.1	200.0	V	247.0	27.2	8.9	17.9	54
4836.875000	38.4	200.0	V	0.0	26.9	11.5	15.6	54
5788.750000	49.9	200.0	V	80.0	35.8	14.1	4.1	54
6946.875000	49.6	200.0	V	247.0	33.4	16.2	4.4	54
7848.125000	41.1	200.0	H	197.0	24.0	17.1	12.9	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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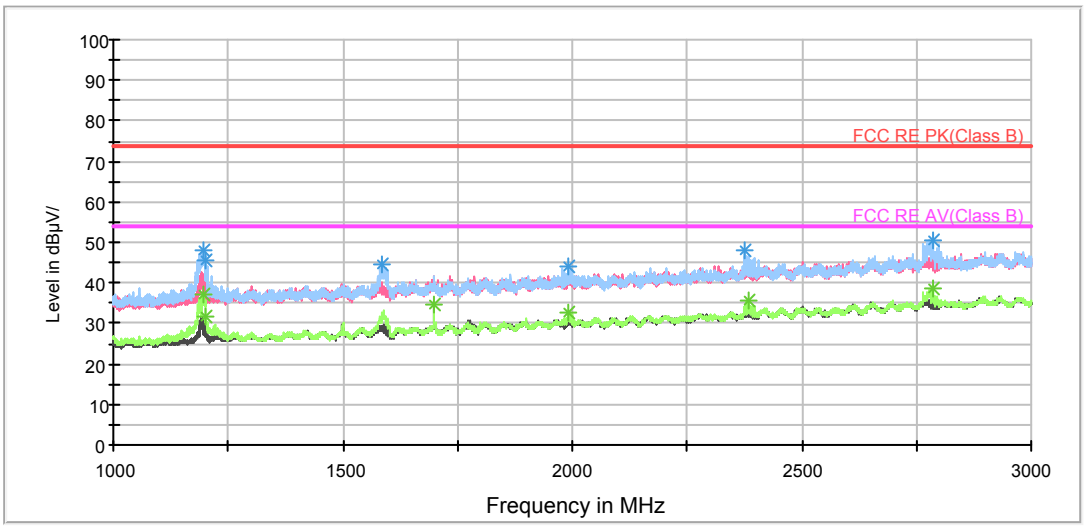
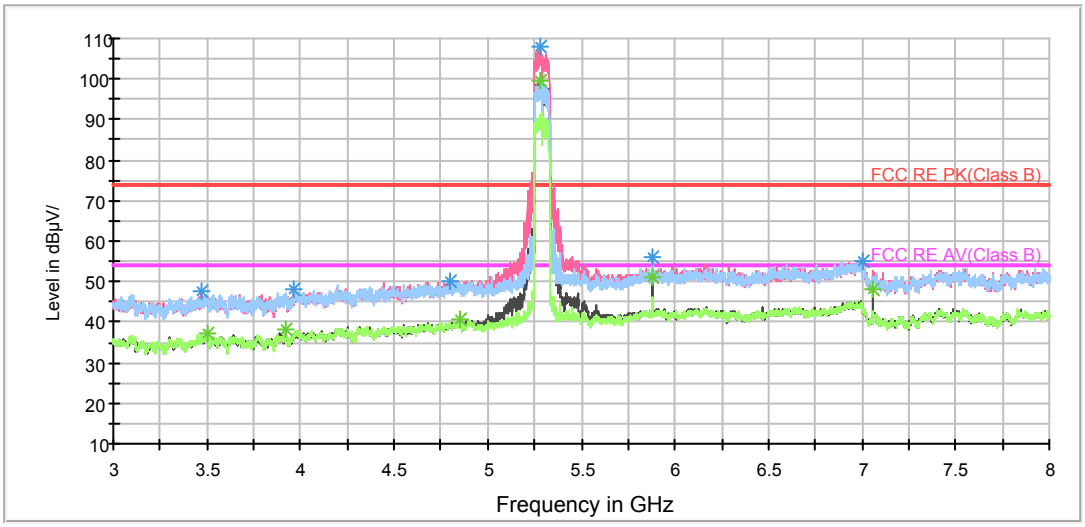
802.11ac (HT80) CH58

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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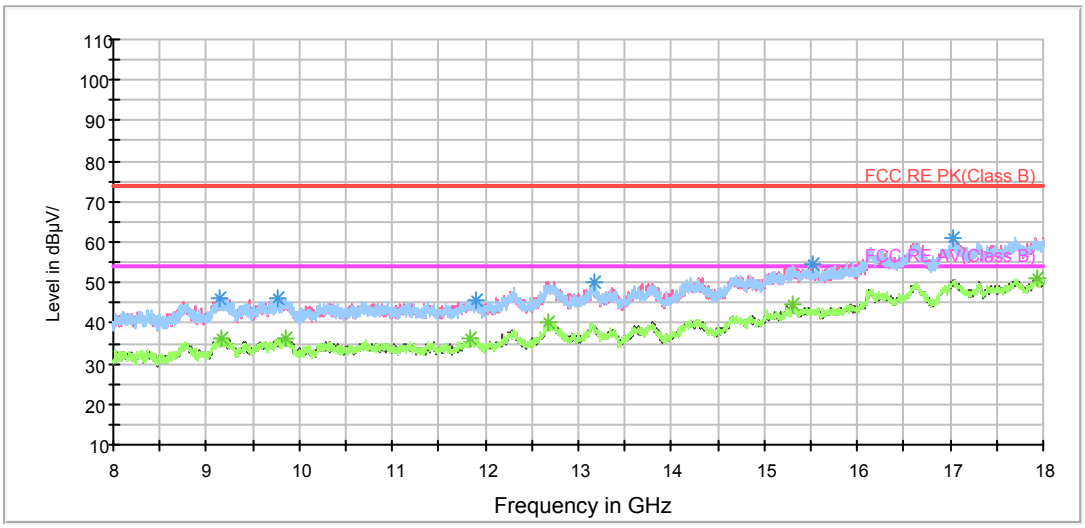
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3475.000000	47.6	200.0	V	322.0	39.6	8.0	26.4	74
3968.750000	47.9	200.0	H	350.0	38.8	9.1	26.1	74
4798.750000	50.3	200.0	V	340.0	39.0	11.3	23.7	74
5877.500000	56.0	200.0	V	233.0	41.1	14.9	18.0	74
7000.000000	55.1	200.0	V	233.0	38.5	16.6	18.9	74
17031.250000	61.1	200.0	H	0.0	36.5	24.6	12.9	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3498.125000	37.0	200.0	H	0.0	29.1	7.9	17.0	54
3916.875000	38.1	200.0	V	292.0	29.3	8.8	15.9	54
4853.750000	40.5	200.0	V	253.0	28.9	11.6	13.5	54
5878.125000	51.3	200.0	V	233.0	36.4	14.9	2.7	54
7053.750000	48.0	200.0	V	153.0	31.8	16.2	6.0	54
17927.500000	51.2	200.0	H	24.0	25.7	25.5	2.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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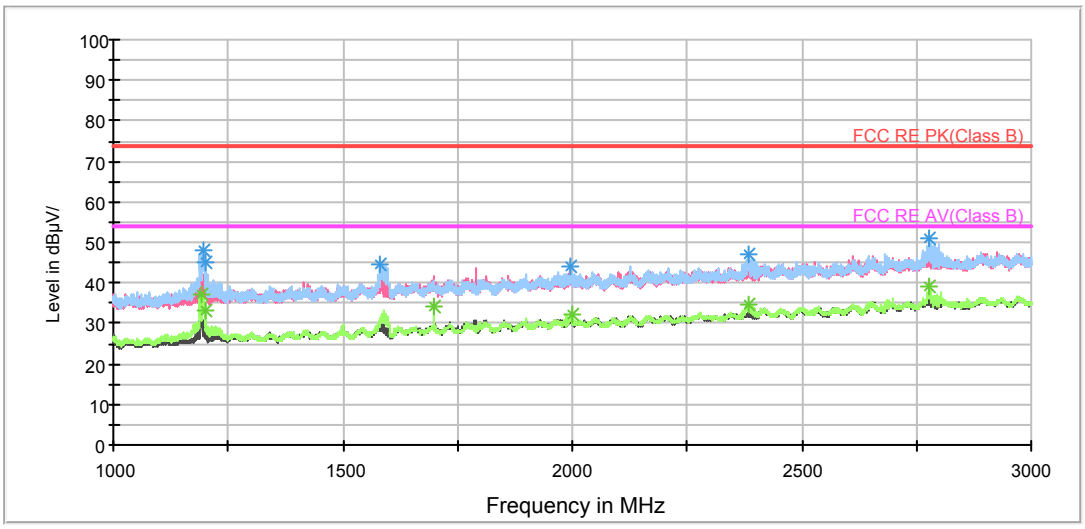
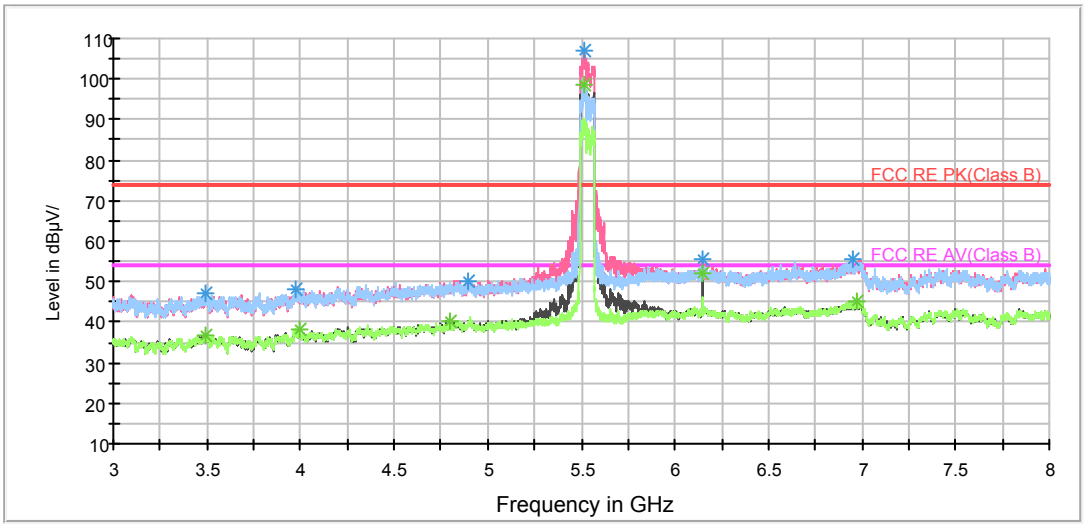
802.11ac (HT80) CH106

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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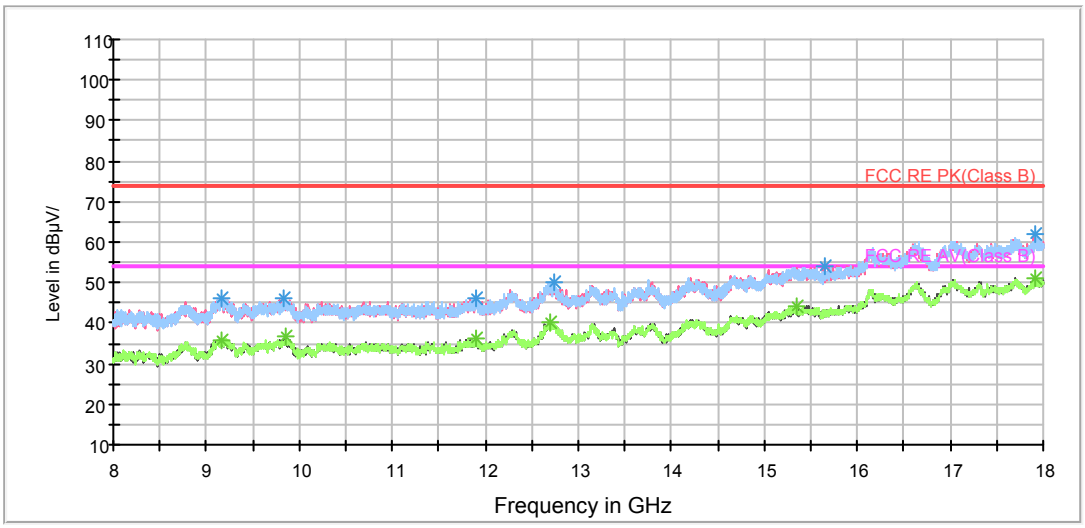
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3493.750000	46.9	200.0	H	193.0	39.0	7.9	27.1	74
3974.375000	48.0	200.0	V	308.0	38.9	9.1	26.0	74
4895.000000	50.2	200.0	V	0.0	38.3	11.9	23.8	74
6144.375000	55.7	200.0	V	258.0	40.3	15.4	18.3	74
6946.875000	55.7	200.0	V	0.0	39.5	16.2	18.3	74
17911.250000	61.9	200.0	H	206.0	36.4	25.5	12.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3492.500000	36.8	200.0	H	0.0	28.9	7.9	17.2	54
4000.000000	38.4	200.0	V	167.0	29.5	8.9	15.6	54
4800.000000	40.2	200.0	V	327.0	28.9	11.3	13.8	54
6144.375000	52.2	200.0	V	258.0	36.8	15.4	1.8	54
6975.000000	45.1	200.0	V	0.0	28.8	16.3	8.9	54
17917.500000	51.1	200.0	H	113.0	25.4	25.7	2.9	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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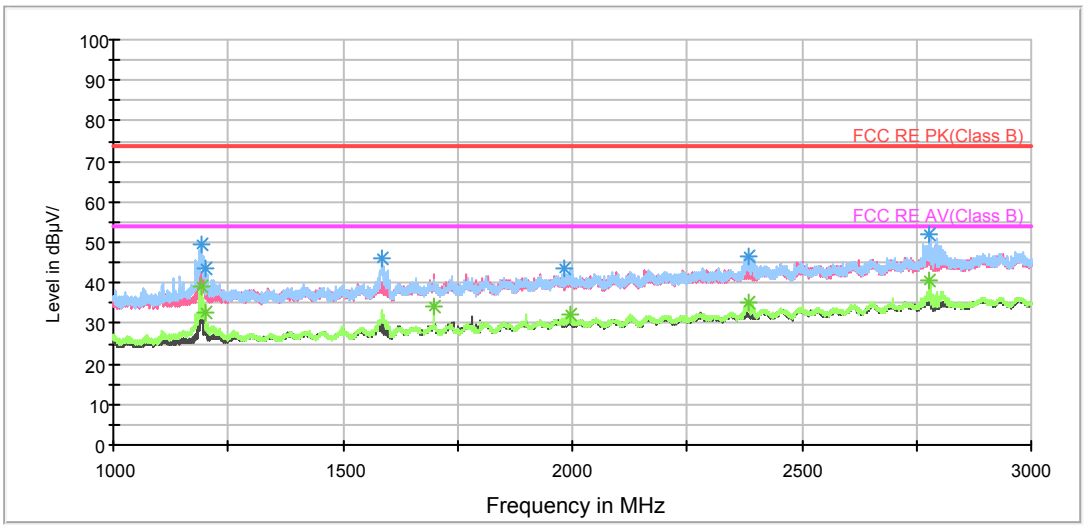
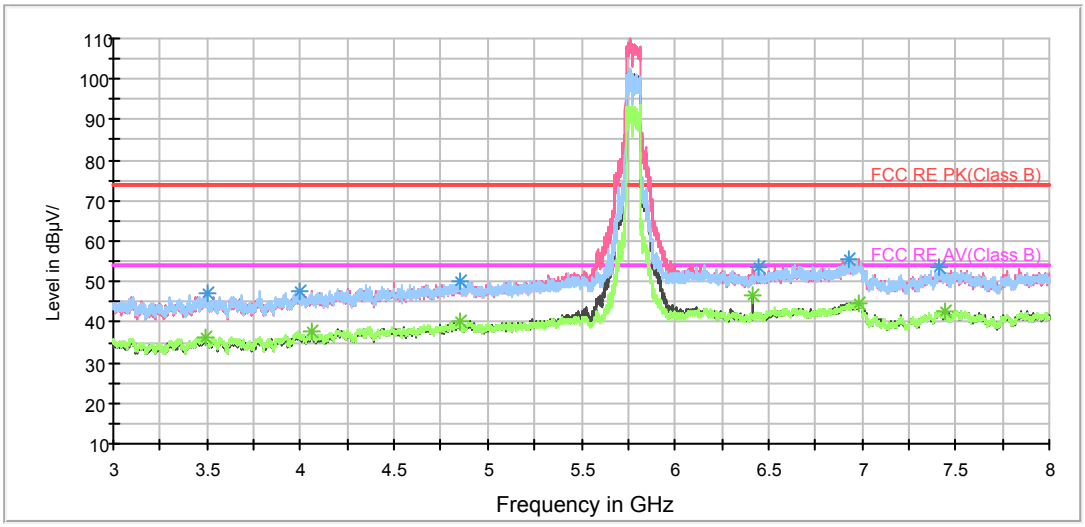
802.11ac (HT80) CH155

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

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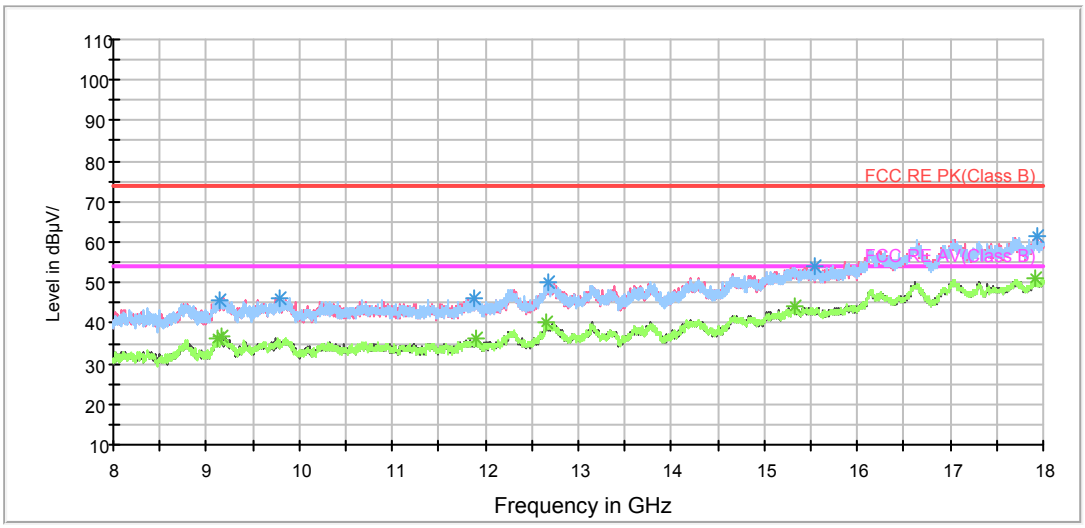
RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3502.500000	47.0	200.0	H	145.0	39.1	7.9	27.0	74
4000.000000	47.8	200.0	V	155.0	38.9	8.9	26.2	74
4847.500000	50.0	200.0	H	66.0	38.4	11.6	24.0	74
6447.500000	53.3	200.0	H	183.0	38.3	15.0	20.7	74
6929.375000	55.5	200.0	V	247.0	39.3	16.2	18.5	74
7410.000000	53.7	200.0	H	56.0	36.8	16.9	20.3	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3490.625000	36.3	200.0	H	16.0	28.4	7.9	17.7	54
4055.625000	37.7	200.0	H	174.0	28.8	8.9	16.3	54
4851.250000	40.0	200.0	H	164.0	28.4	11.6	14.0	54
6416.875000	46.5	200.0	V	126.0	31.6	14.9	7.5	54
6986.250000	44.8	200.0	V	343.0	28.4	16.4	9.2	54
7447.500000	42.7	200.0	H	47.0	26.0	16.7	11.3	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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5.6. Conducted Emission

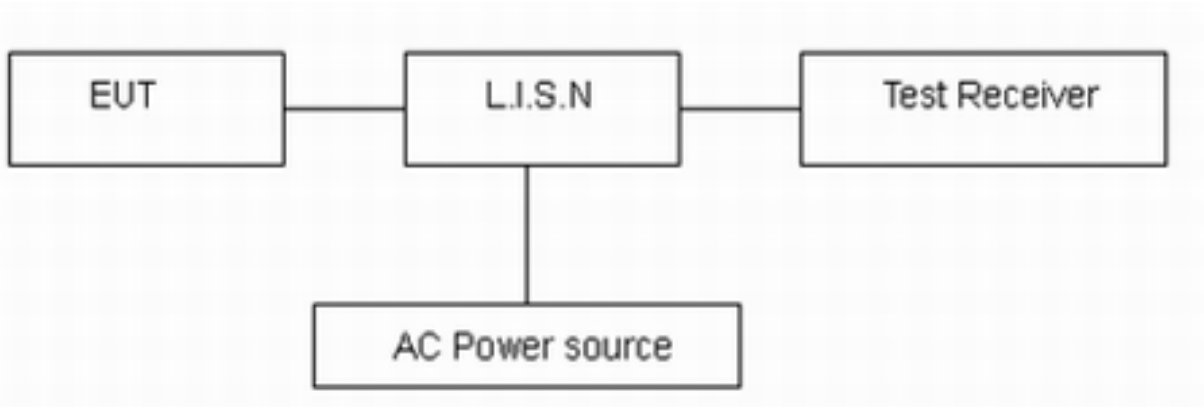
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2013.Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.
The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U= 2.69 dB.

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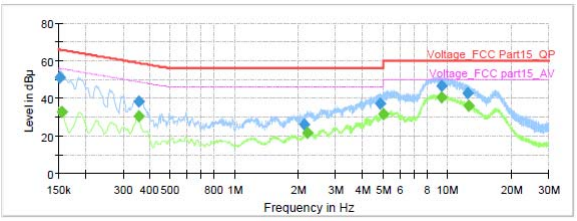
Test Results:

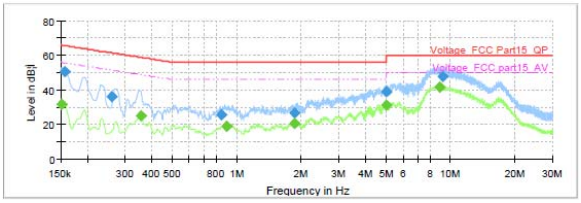
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11a (HT40), Channel 110 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

L Line



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.152250	51.14	---	65.88	14.74	1000.0	9.000	L1	ON	19.6
0.154500	---	32.60	55.75	23.15	1000.0	9.000	L1	ON	19.6
0.354750	---	30.63	48.85	18.22	1000.0	9.000	L1	ON	19.6
0.354750	38.11	---	58.85	20.74	1000.0	9.000	L1	ON	19.6
2.143500	26.38	---	56.00	29.62	1000.0	9.000	L1	ON	19.6
2.195250	---	21.81	46.00	24.19	1000.0	9.000	L1	ON	19.6
4.825500	37.28	---	56.00	18.72	1000.0	9.000	L1	ON	19.7
5.021250	---	31.75	50.00	18.25	1000.0	9.000	L1	ON	19.7
9.390750	---	40.73	50.00	9.27	1000.0	9.000	L1	ON	19.9
9.393000	46.82	---	60.00	13.18	1000.0	9.000	L1	ON	19.9
12.513750	42.71	---	60.00	17.29	1000.0	9.000	L1	ON	19.9
12.565500	---	36.16	50.00	13.84	1000.0	9.000	L1	ON	19.9

N Line



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.152250	---	31.86	55.88	24.01	1000.0	9.000	N	ON	19.7
0.156750	50.75	---	65.63	14.88	1000.0	9.000	N	ON	19.7
0.260250	36.09	---	61.42	25.34	1000.0	9.000	N	ON	19.6
0.357000	---	24.78	48.80	24.01	1000.0	9.000	N	ON	19.6
0.849750	25.43	---	56.00	30.57	1000.0	9.000	N	ON	19.6
0.894750	---	19.03	46.00	26.97	1000.0	9.000	N	ON	19.6
1.862250	---	20.83	46.00	25.17	1000.0	9.000	N	ON	19.6
1.864500	26.46	---	56.00	29.54	1000.0	9.000	N	ON	19.6
4.994250	---	30.92	46.00	15.08	1000.0	9.000	N	ON	19.7
4.998750	38.71	---	56.00	17.29	1000.0	9.000	N	ON	19.7
8.875500	---	41.69	50.00	8.31	1000.0	9.000	N	ON	19.9
9.231000	47.51	---	60.00	12.49	1000.0	9.000	N	ON	19.9

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6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV40	15195-01-00	2017-05-14	2018-05-13
EMI Test Receiver	R&S	ESCI	100948	2017-05-20	2018-05-19
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2017-02-18	2020-02-17
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-201	2017-11-18	2020-11-17
Double Ridged Waveguide Horn Antenna	R&S	HF907	100126	2014-12-06	2019-12-05
Standard Gain Horn	ETS-Lindgren	3160-09	00102644	2015-01-30	2020-01-29
Standard Gain Horn	STEATITE	QSH-SL-26-40 -K-15	16779	2016-03-21	2019-03-20
Broadband Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06024	2016-11-24	2019-11-23
EMI Test Receiver	R&S	ESR	101667	2017-09-06	2018-09-05
LISN	R&S	ENV216	101171	2016-12-16	2019-12-15
Spectrum Analyzer	Agilent	N9010A	MY47191109	2017-05-20	2018-05-19
RF Cable	Agilent	SMA 15cm	0001	/	/
TEMPERATURE CHAMBER	ESPEC	SU-242	93000506	2017-12-27	2018-12-26
AV Power Meter	R&S	NRP	102437	2017-12-17	2018-12-16
Power Probe	R&S	NRP-Z21	104799	2017-05-20	2018-05-19

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

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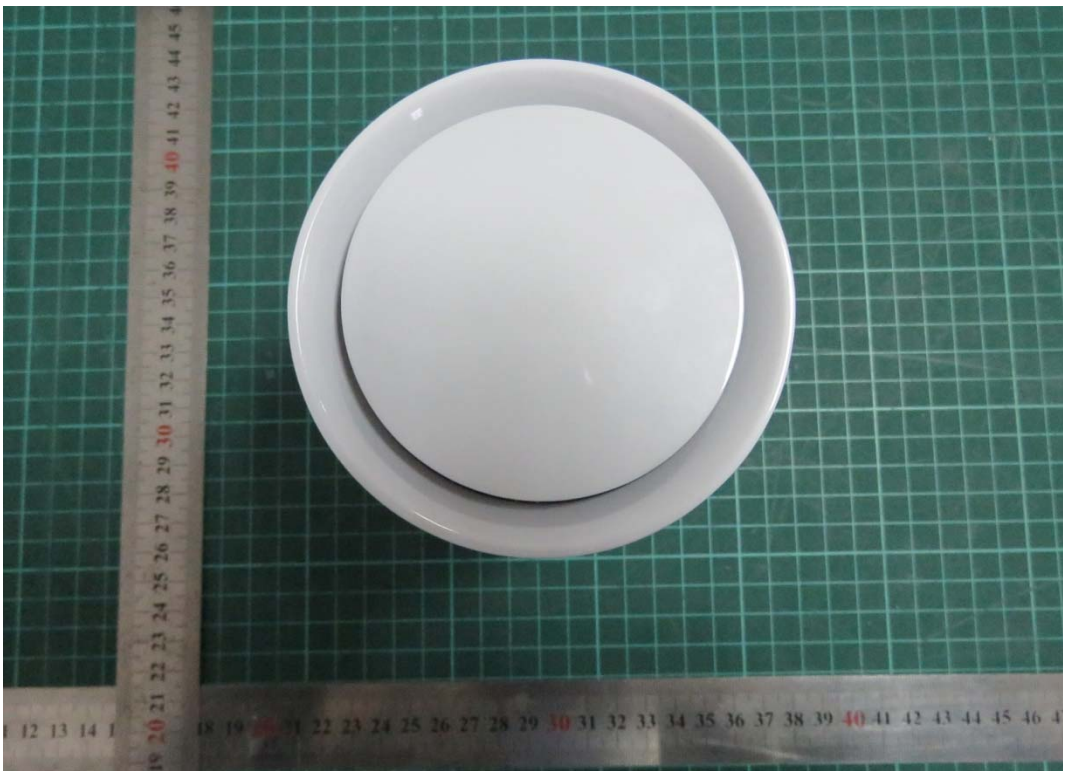
ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance



Front Side

Back Side

a: EUT

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Adapter 1

Adapter 2

b: Adapter

Picture 1 EUT and Accessory

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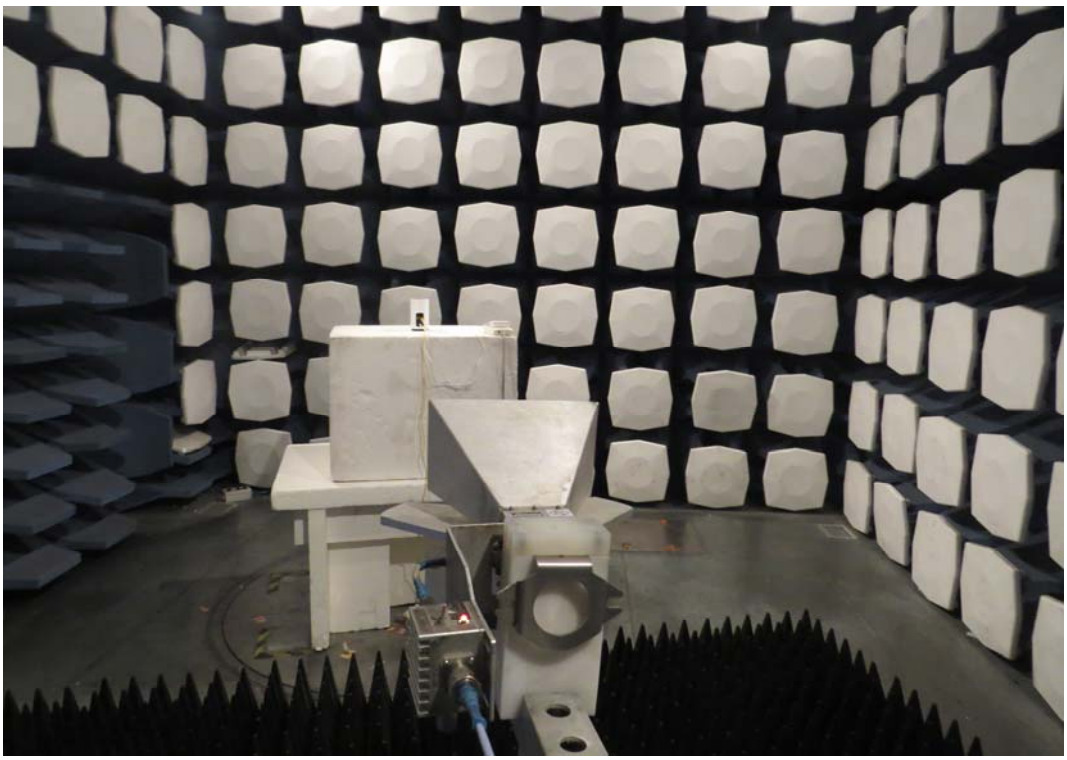
A.2 Test Setup

30MHz-1GHz



Above 1GHz

Picture 2 Radiated Emission Test Setup

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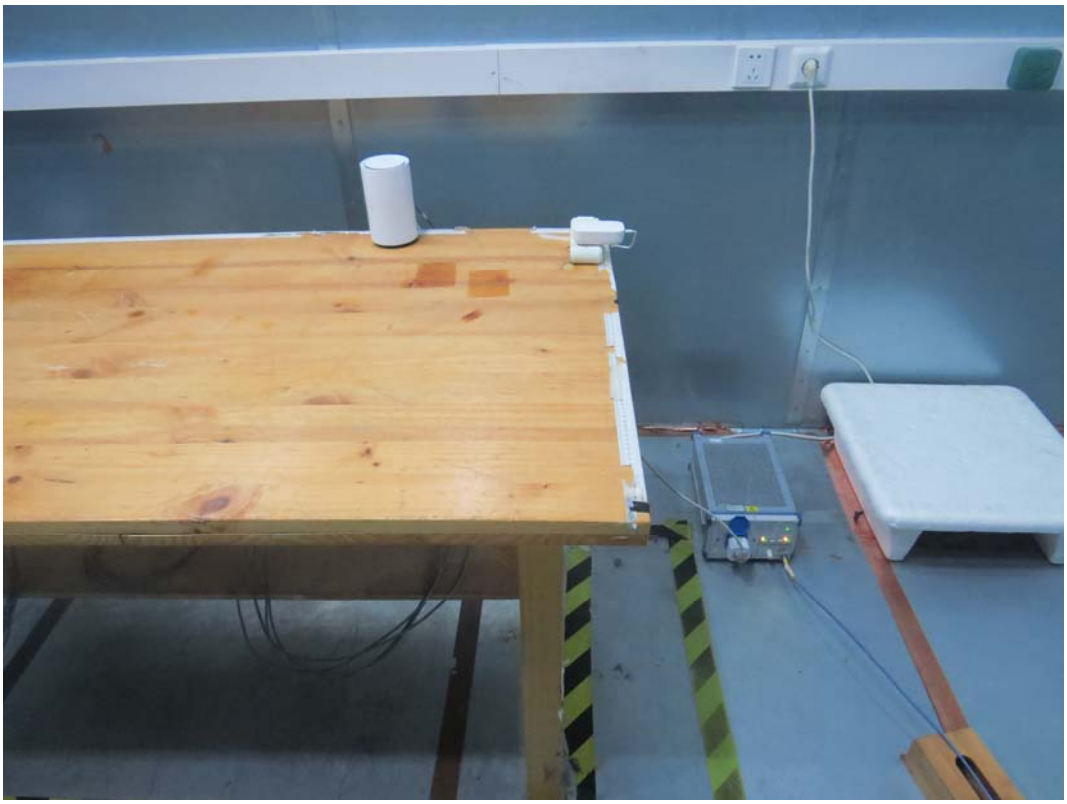

Picture 3 Conducted Emission Test Setup

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