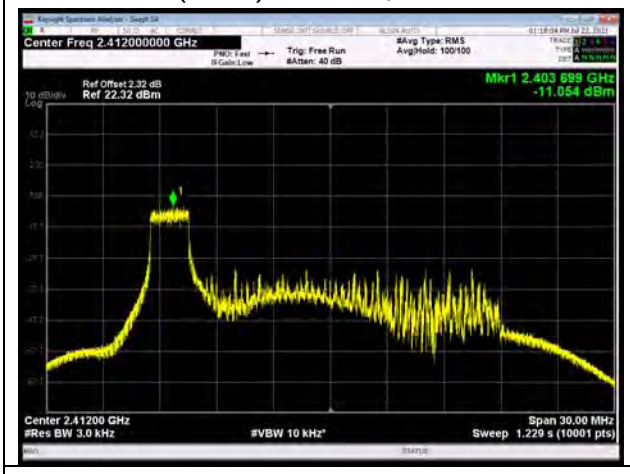
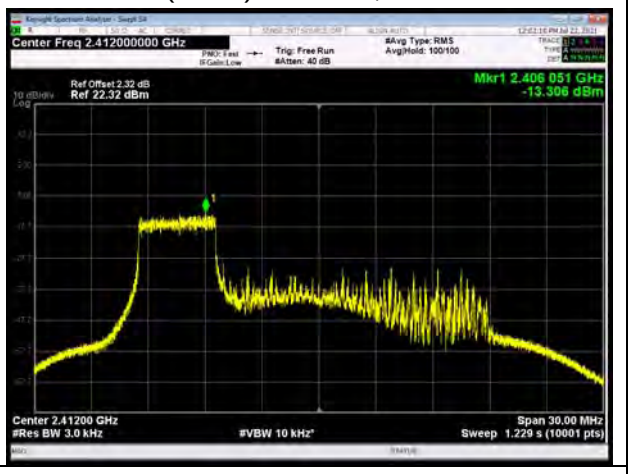
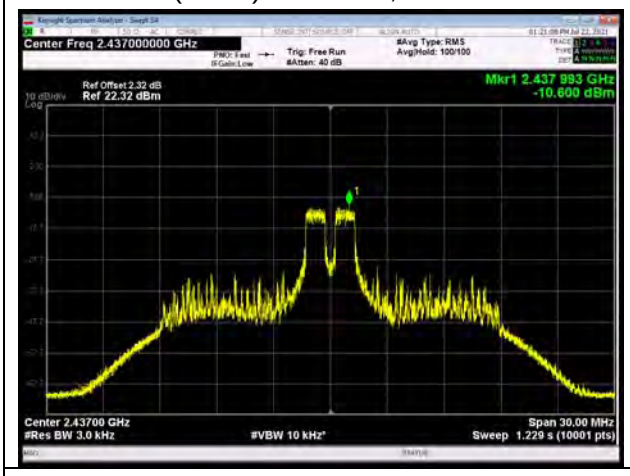
802.11ax(HE20)-106Tone, Channel No. 1



802.11ax(HE20)-242Tone, Channel No. 1



802.11ax(HE20) -106Tone, Channel No. 6



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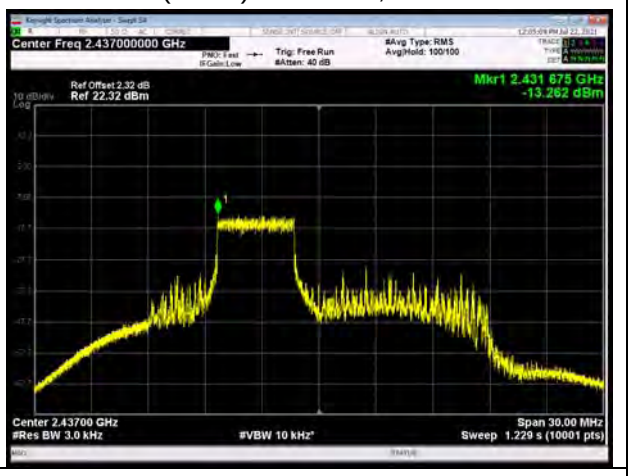
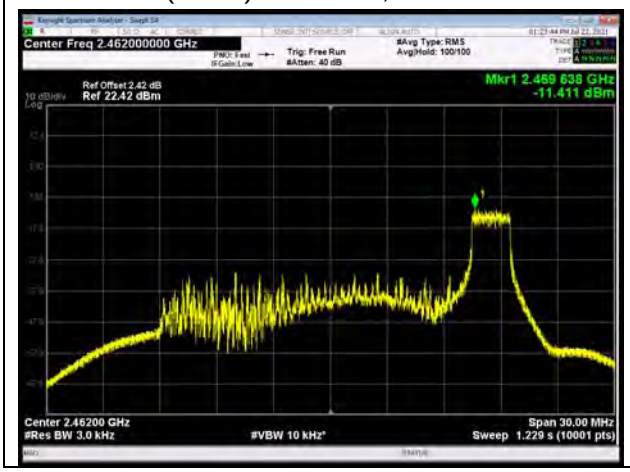
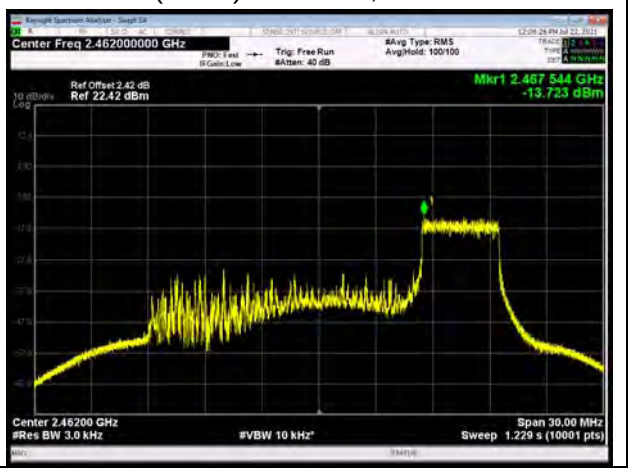


802.11ax(HE20) -106Tone, Channel No. 11



802.11ax(HE20) -242Tone, Channel No. 11



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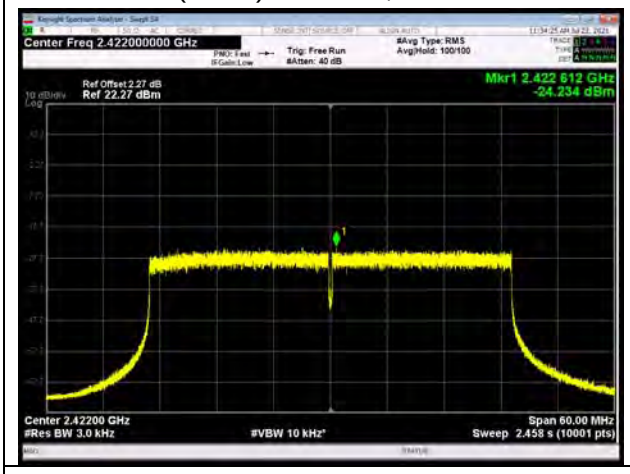
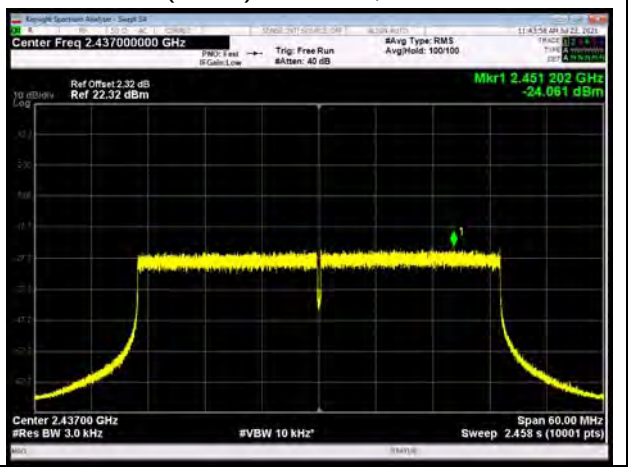
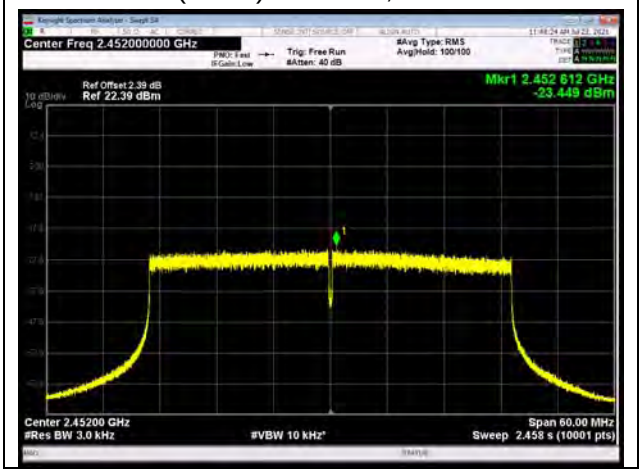
802.11ax(HE40)-484Tone, Channel No. 3



802.11ax(HE40)-484Tone, Channel No. 6



802.11ax(HE40)-484Tone, Channel No. 9



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5.5. Spurious RF Conducted Emissions

Ambient condition

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

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to ATUO.
The test is in transmitting mode.

Test setup

Limits

Rule Part 15.247(d) pacifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. ”

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RU Mode

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	10.77	-19.23
	2437	10.38	-19.62
	2462	10.57	-19.43
802.11g	2412	6.12	-23.88
	2437	5.64	-24.37
	2462	6.39	-23.61
802.11n HT20	2412	6.50	-23.50
	2437	4.41	-25.59
	2462	4.79	-25.21
802.11n HT40	2422	2.26	-27.74
	2437	-1.22	-31.22
	2452	-1.44	-31.44
802.11ax HE20	2402	4.78	-25.22
	2440	3.24	-26.76
	2480	4.10	-25.91
802.11ax HE40	2402	-2.81	-32.81
	2440	-1.59	-31.59
	2480	-0.98	-30.98
Bluetooth (Low Energy) (1M)	2402	4.76	-25.24
	2440	6.33	-23.68
	2480	6.00	-24.00
Bluetooth (Low Energy) (2M)	2402	4.89	-25.11
	2440	6.22	-23.78
	2480	0.84	-29.16

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TB Mode

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11ax HE20 26Tone	2412	12.36	-17.64
	2437	12.32	-17.68
	2462	11.94	-18.06
802.11ax HE20 52Tone	2412	9.30	-20.70
	2437	11.53	-18.47
	2462	9.25	-20.75
802.11ax HE20 106Tone	2412	7.50	-22.50
	2437	8.19	-21.81
	2462	7.20	-22.80
802.11ax HE20 242Tone	2412	6.85	-23.15
	2437	5.94	-24.06
	2462	5.81	-24.19
802.11ax HE40 484Tone	2422	3.14	-26.86
	2437	3.46	-26.54
	2452	3.98	-26.02

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
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

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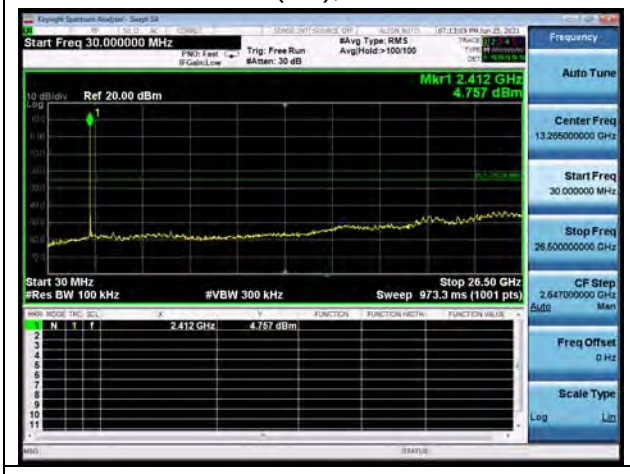
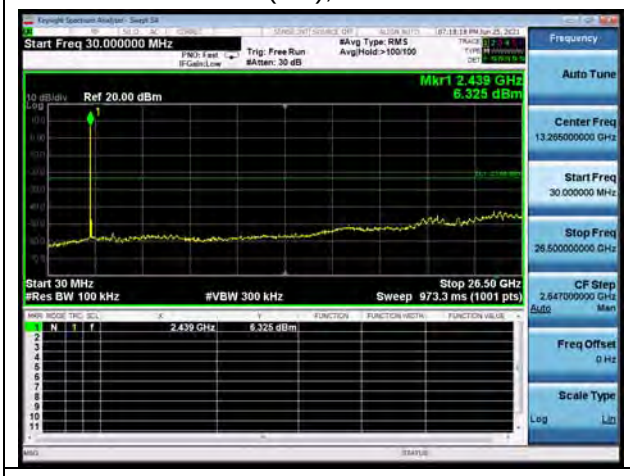
Test Results:

Bluetooth LE (1M), Channel No.: 0



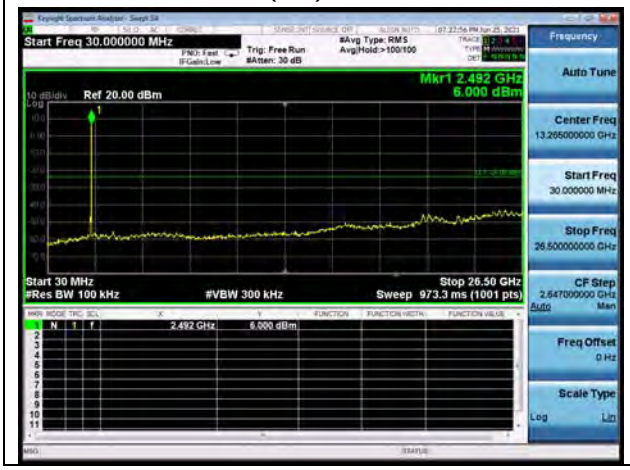
Bluetooth LE (2M), Channel No.: 0

Bluetooth LE (1M), Channel No.: 19



Bluetooth LE (2M), Channel No.: 19

Bluetooth LE (1M), Channel No.: 39



Bluetooth LE (2M), Channel No.: 39

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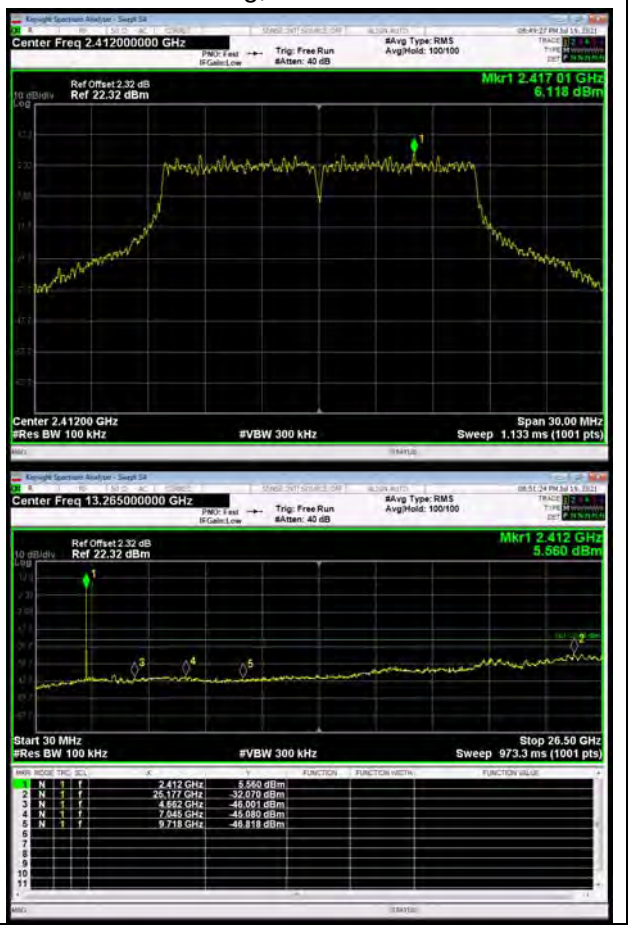
RU Mode

SISO Antenna 1

802.11b, Channel No.: 1

802.11g, Channel No.: 1



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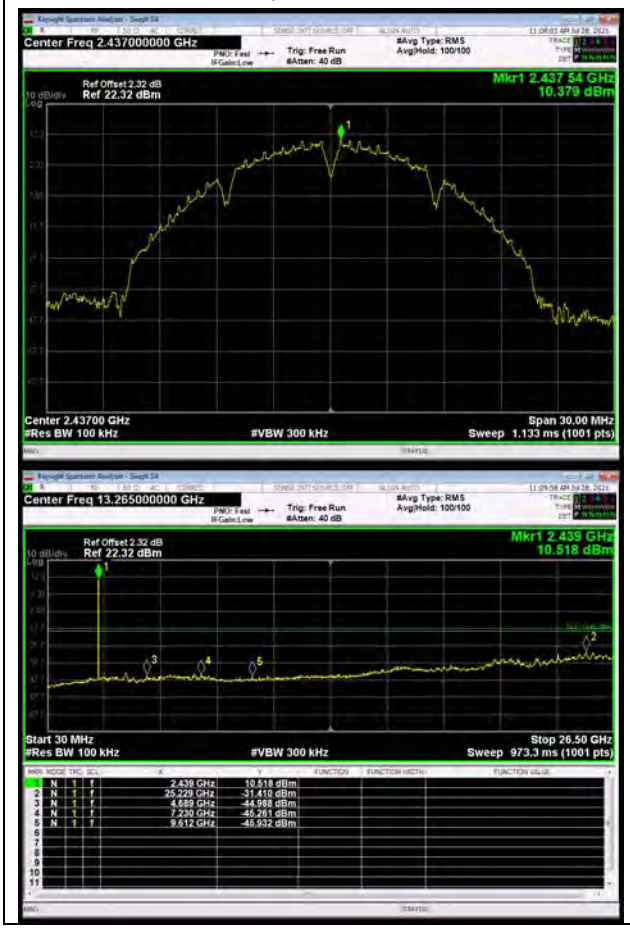
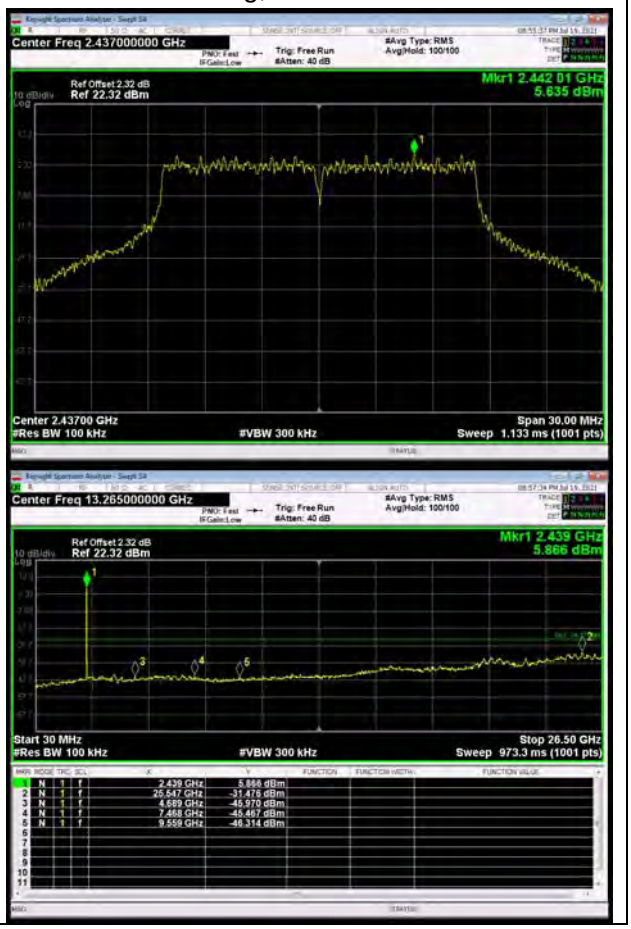
802.11b, Channel No.: 6



802.11g, Channel No.: 6



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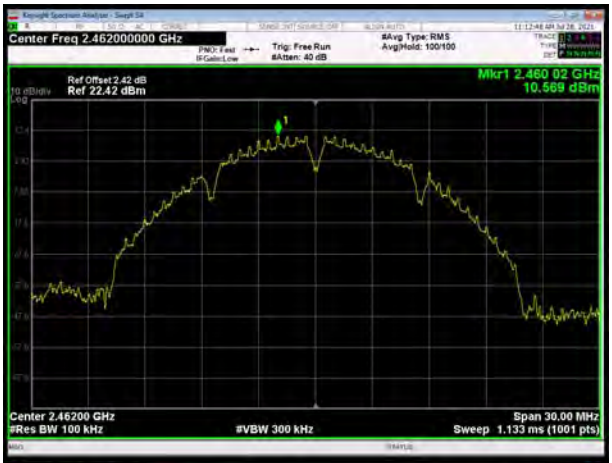
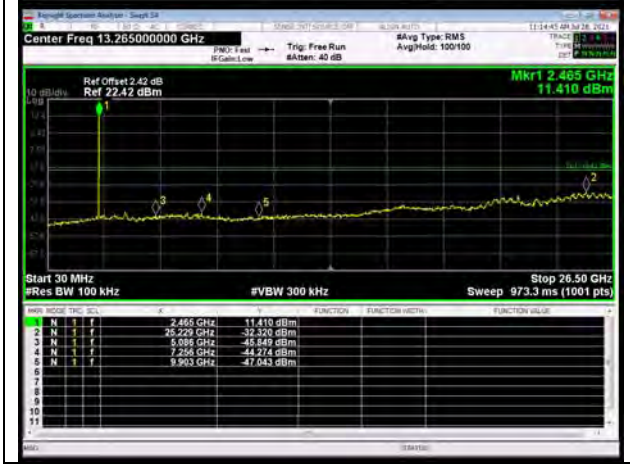
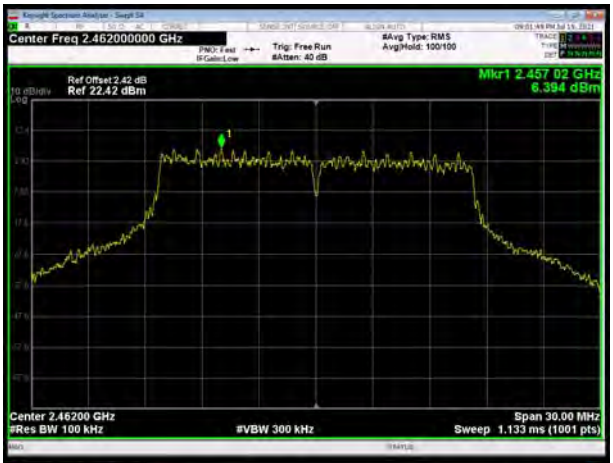
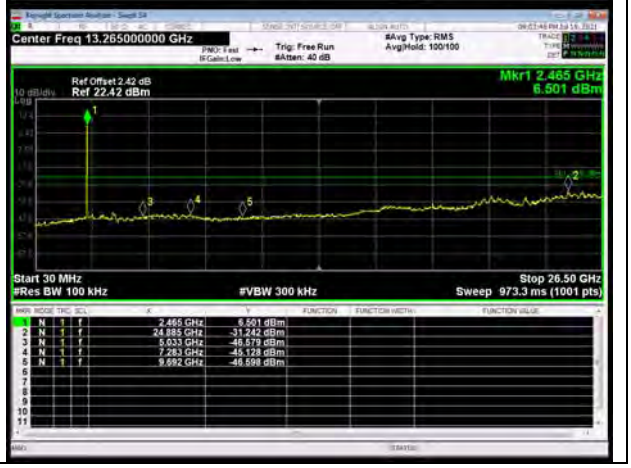
802.11b, Channel No.: 11





802.11g, Channel No.: 11





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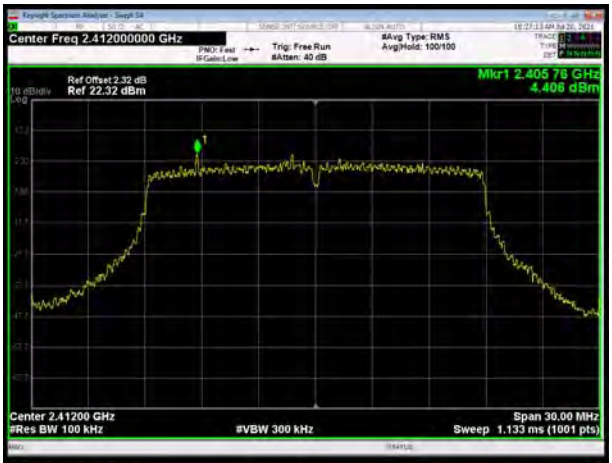
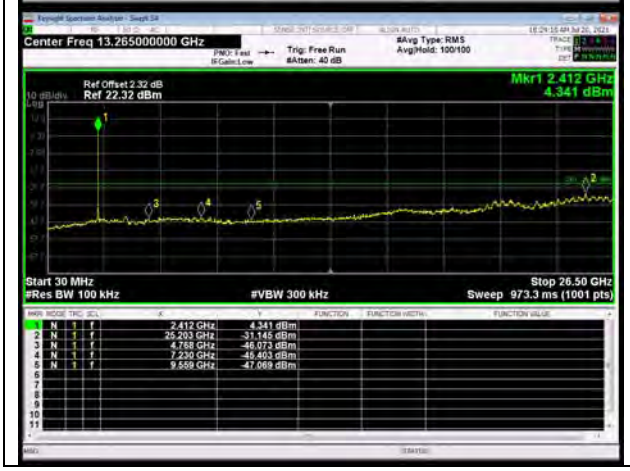
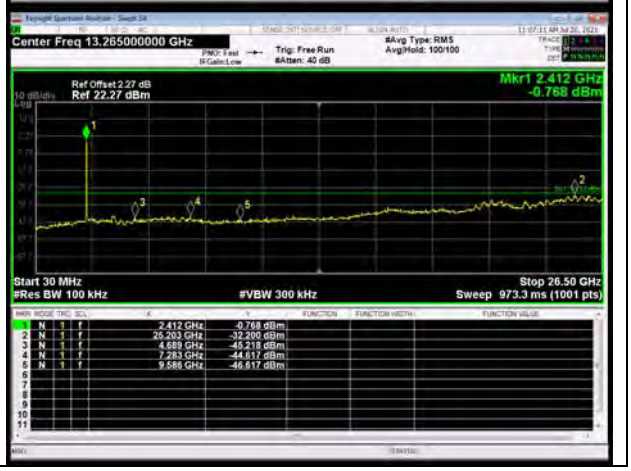
802.11n(HT20), Channel No. 1





802.11n(HT40), Channel No. 3



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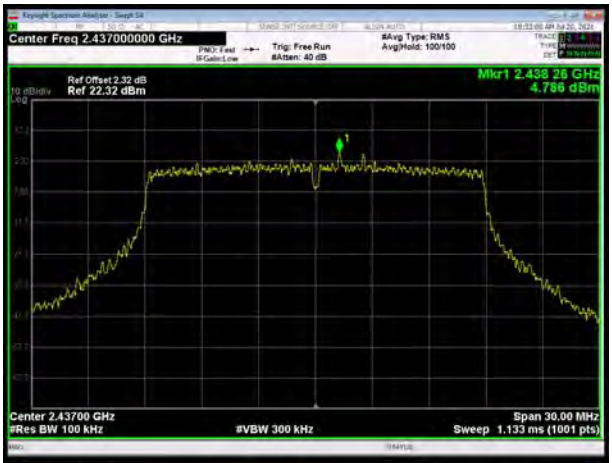
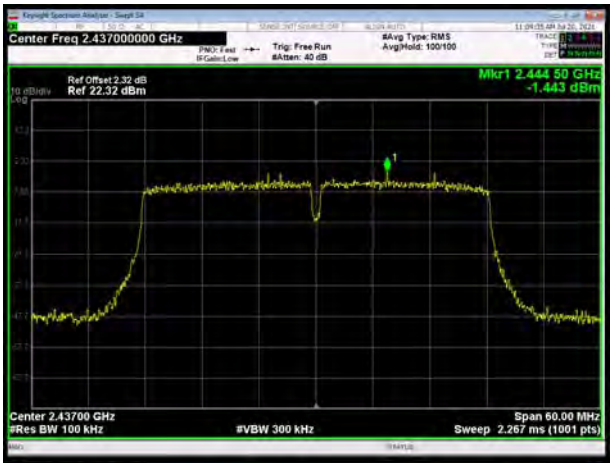
802.11n(HT20), Channel No. 6



802.11n(HT40), Channel No. 6



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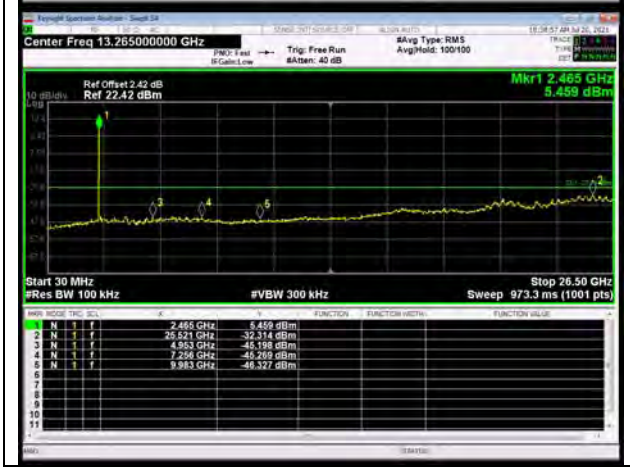
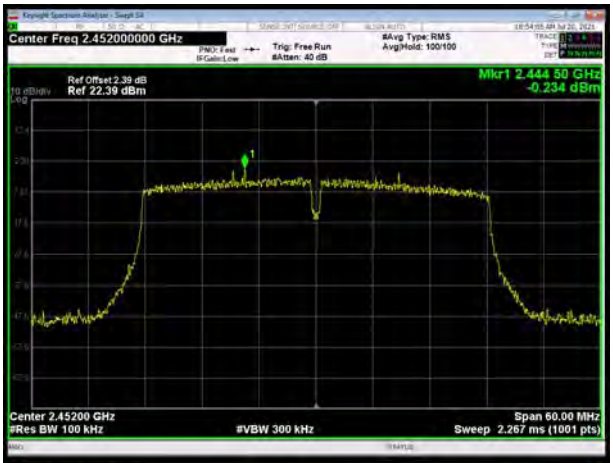
802.11n(HT20), Channel No. 11



802.11n(HT40), Channel No. 9



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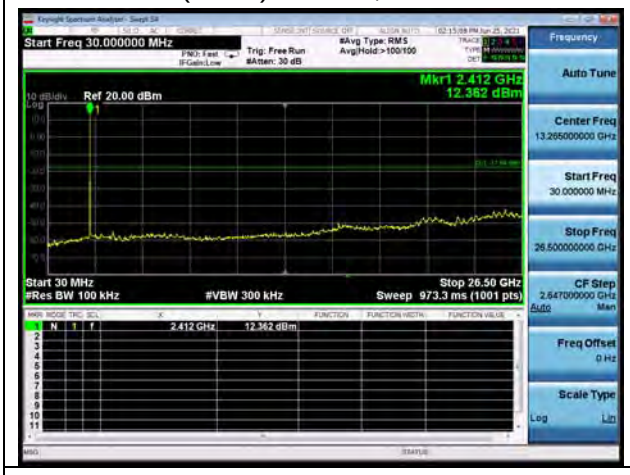
TB Mode

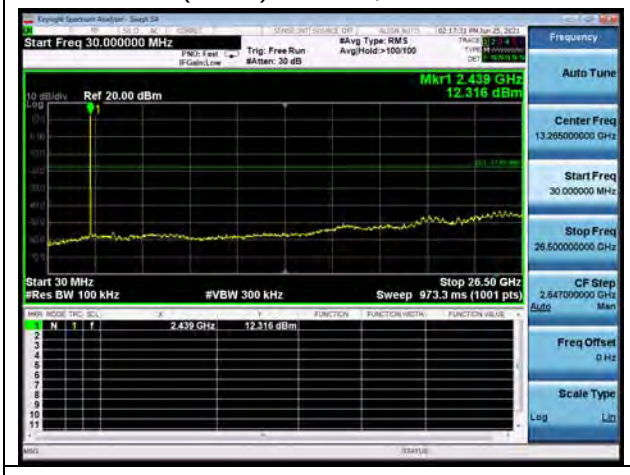
SISO Antenna 1

802.11ax(HE20)-26Tone, Channel No.: 1



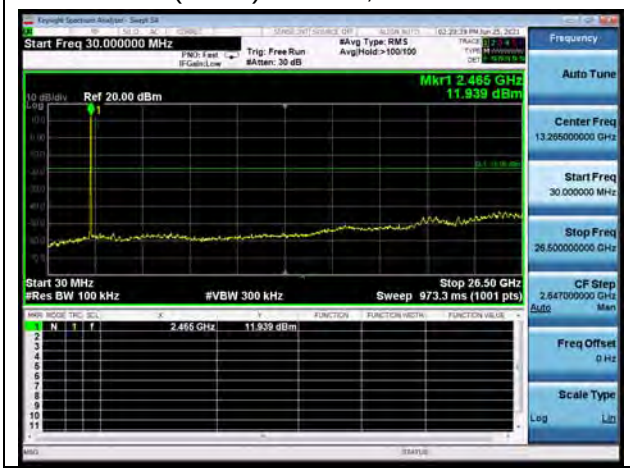
802.11ax(HE20)-52Tone, Channel No.: 1

802.11ax(HE20)-26Tone, Channel No.: 6



802.11ax(HE20)-52Tone, Channel No.: 6

802.11ax(HE20)-26Tone, Channel No.: 11



802.11ax(HE20)-52Tone, Channel No.: 11

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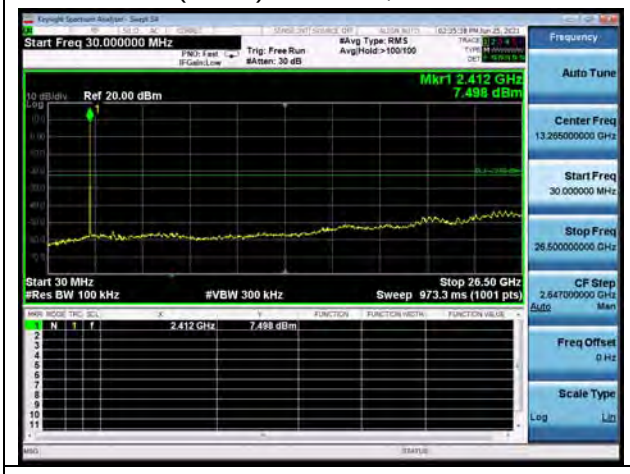
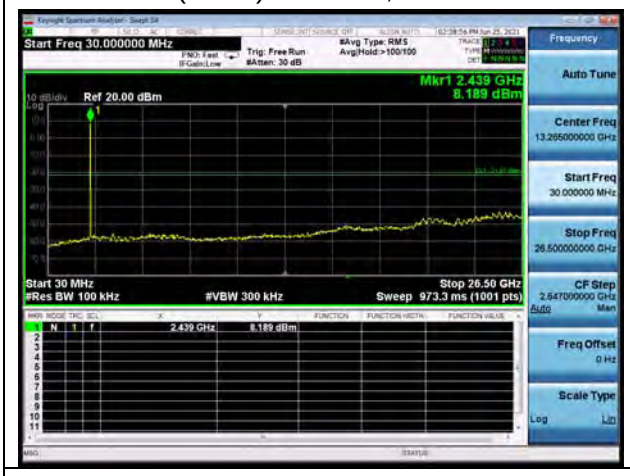
802.11ax(HE20)-106Tone, Channel No. 1



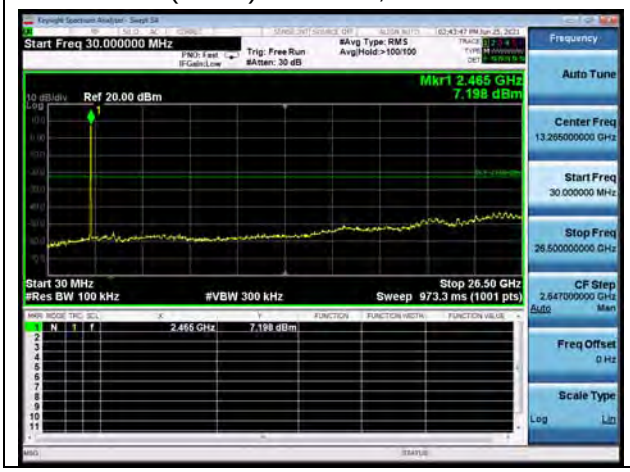
802.11ax(HE20)-242Tone, Channel No. 3

802.11ax(HE20)-106Tone, Channel No. 6



802.11ax(HE20)-242Tone, Channel No. 6

802.11ax(HE20)-106Tone, Channel No. 11



802.11ax(HE20)-242Tone, Channel No. 9

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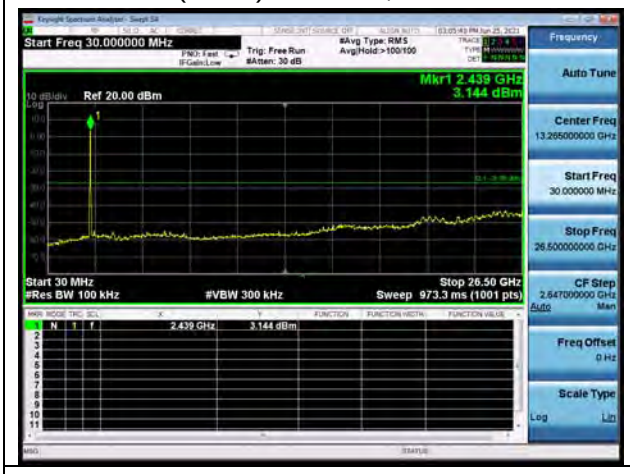
802.11ax(HE40)-484Tone, Channel No. 3



802.11ax(HE40)-484Tone, Channel No. 6

802.11ax(HE40)-484Tone, Channel No. 9

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5.6. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	102.5kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10.
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 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. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.
The radiated emissions measurements were made in a typical installation configuration.
Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

This method refer to ANSI C63.10.
The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:
Set the spectrum analyzer in the following:
9kHz~150 kHz
RBW=200Hz, VBW=1kHz/ Sweep=AUTO
150 kHz~30MHz
RBW=9KHz, VBW=30KHz,/ Sweep=AUTO
Below 1GHz
RBW=100kHz / VBW=300kHz / Sweep=AUTO
a) Peak emission levels are measured by setting the instrument as follows:
Above 1GHz
PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO
b) Average emission levels are measured by setting the instrument as follows:
Above 1GHz
AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO
c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
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

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averaging. Log or dB averaging shall not be used.)

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 test is in transmitting mode.

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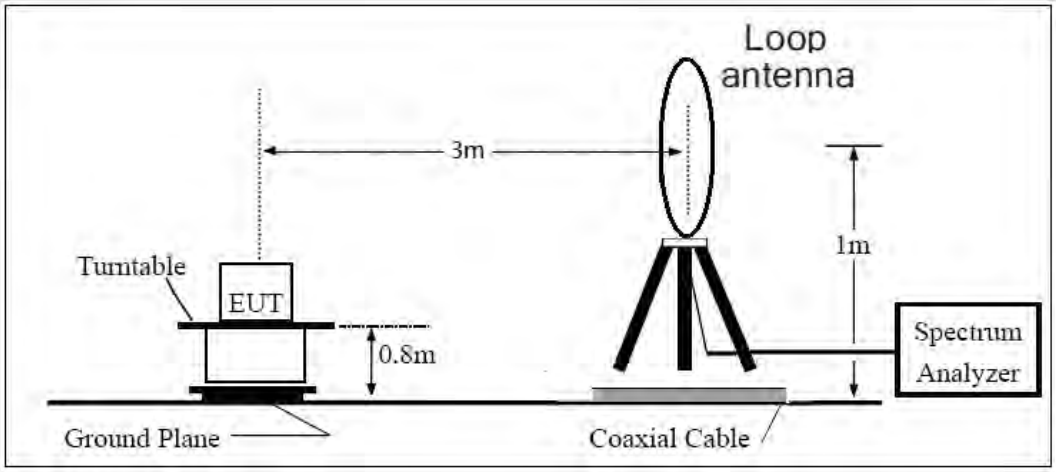
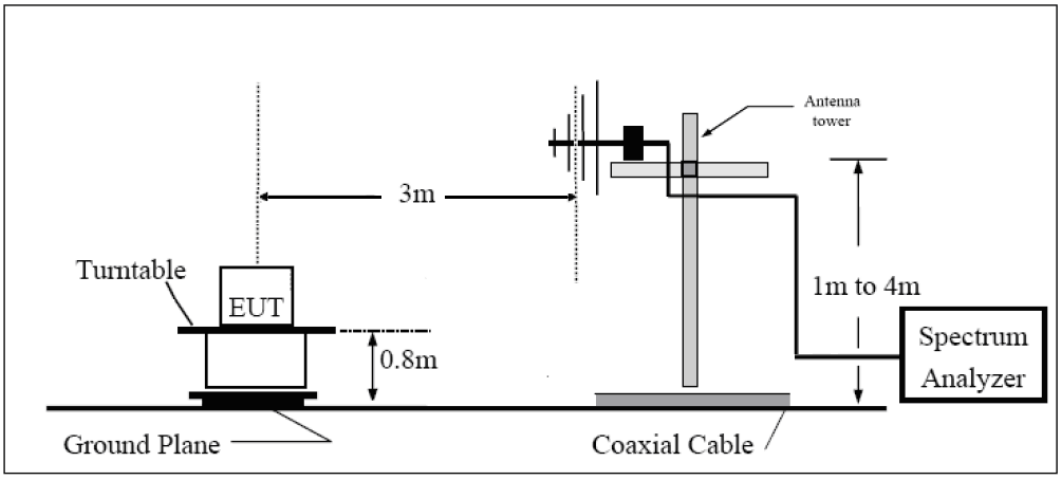
Test setup

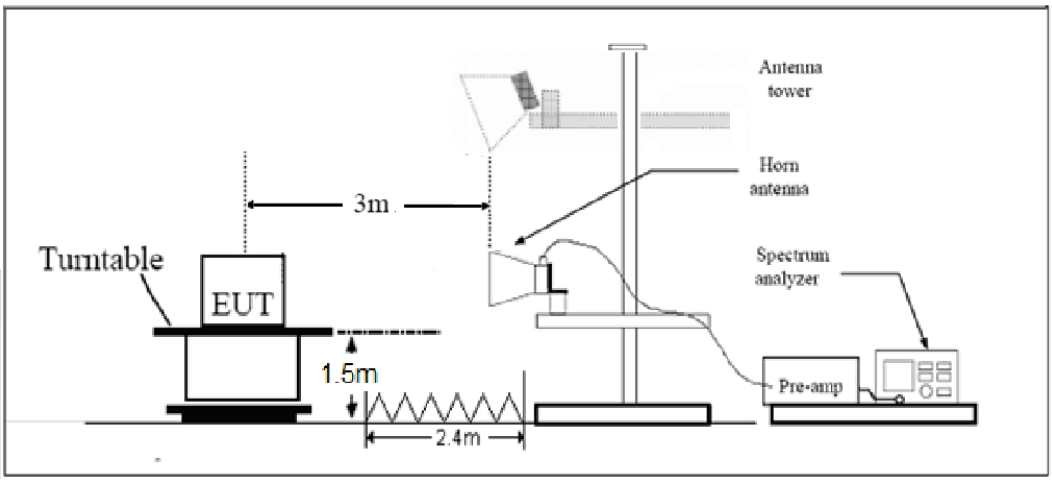
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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Limits

Rule Part 15.247(d) specifies that "In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))."

Limit in restricted band

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

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

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			

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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	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

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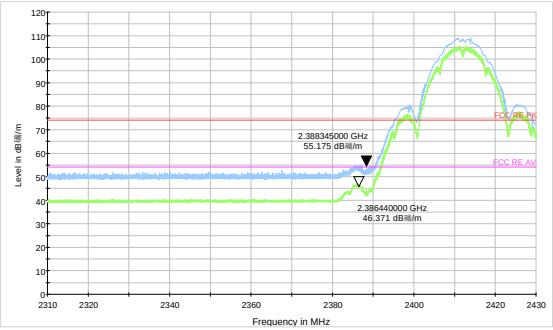
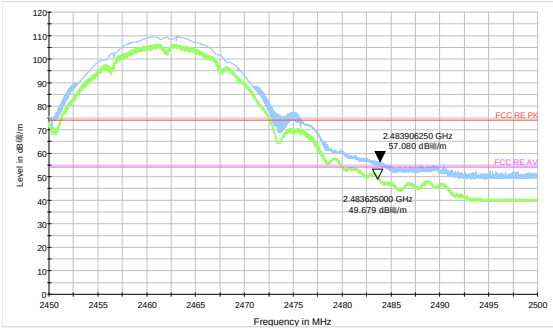
Test Results:

A font (dB礦/m)in the test plot =(dB μ V/m)

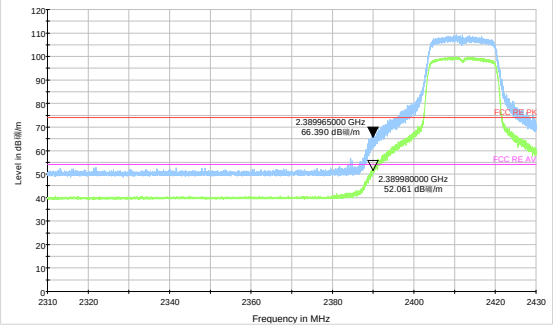
A font (dB V/)in the test plot =(dB μ V/m)



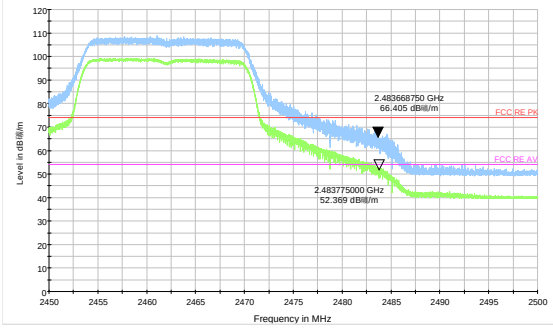
802.11b-Channel 1 Peak+ Average



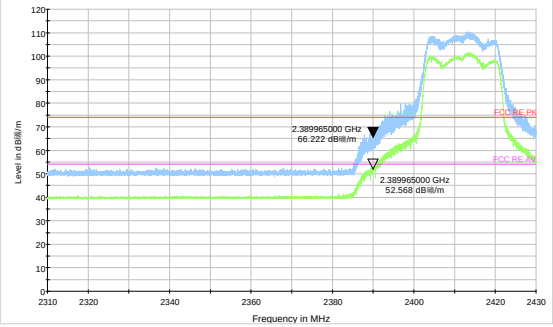
802.11b-Channel 11 Peak+ Average



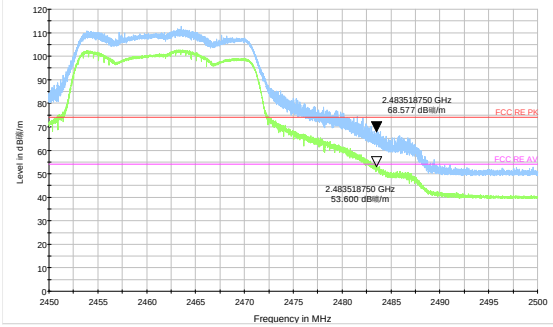
802.11g-Channel 1 Peak+ Average



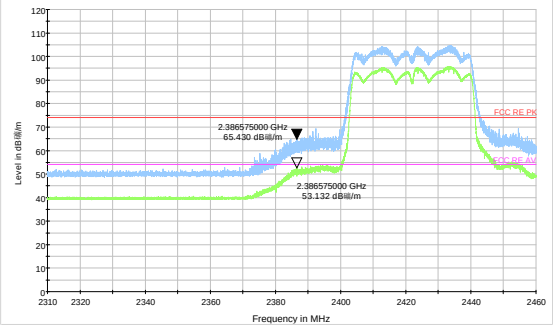
802.11g-Channel 11 Peak+ Average



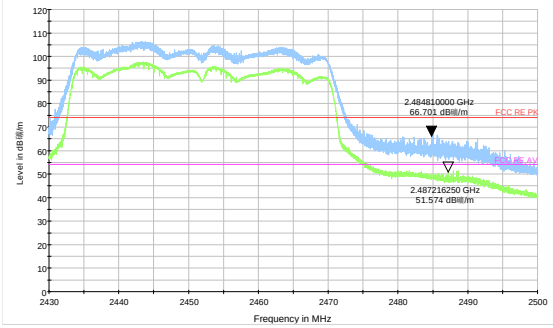
802.11n HT20 -Channel 1 Peak+ Average



802.11n HT20 -Channel 11 Peak+ Average



802.11n HT40 –Channel 3 Peak+ Average



802.11n HT40 -Channel 9 Peak+ Average

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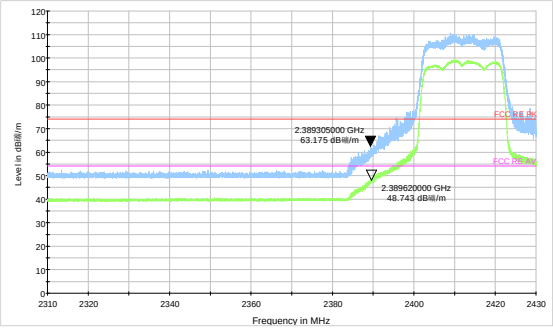
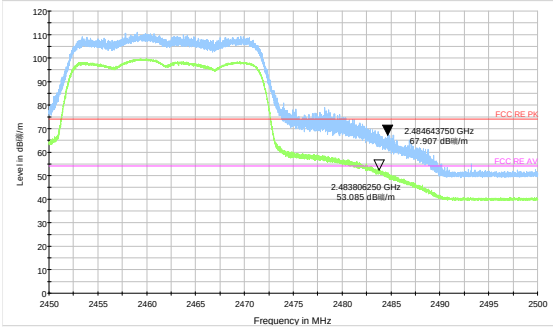
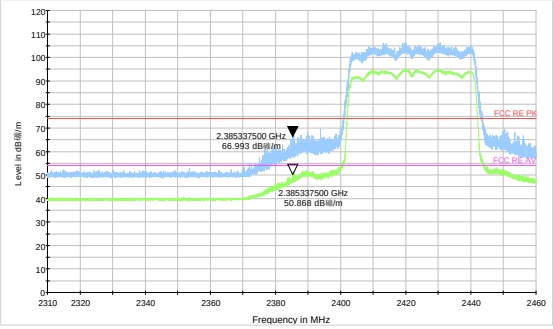


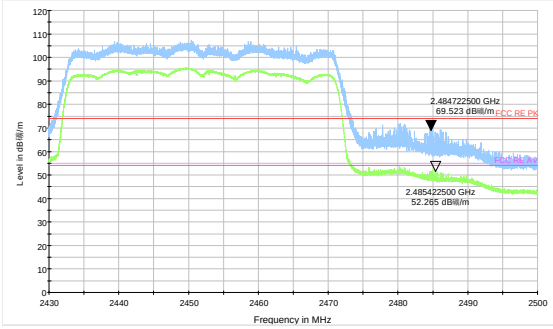
802.11ax HE20 -Channel 1 Peak+ Average



802.11ax HE20 -Channel 11 Peak+ Average

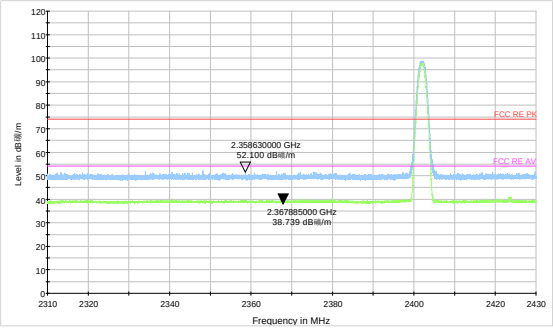


802.11ax HE40 -Channel 3 Peak+ Average

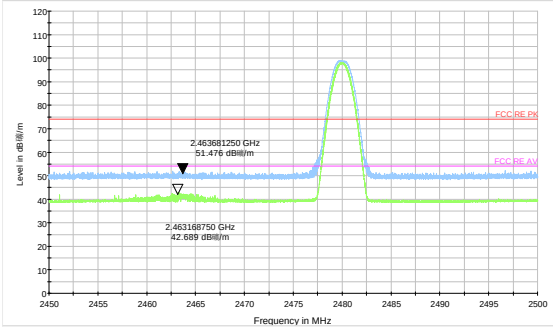


802.11ax HE40 -Channel 9 Peak+ Average

During the test, the preliminary test was performed in both data rate for BLE, 1Mbps was selected as the worst case. The test data of the worst-case condition was recorded in this report



Bluetooth LE (1M) Channel 0 Peak+ Average



Bluetooth LE (1M) Channel 39 Peak+ Average

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Result of RE

Test result

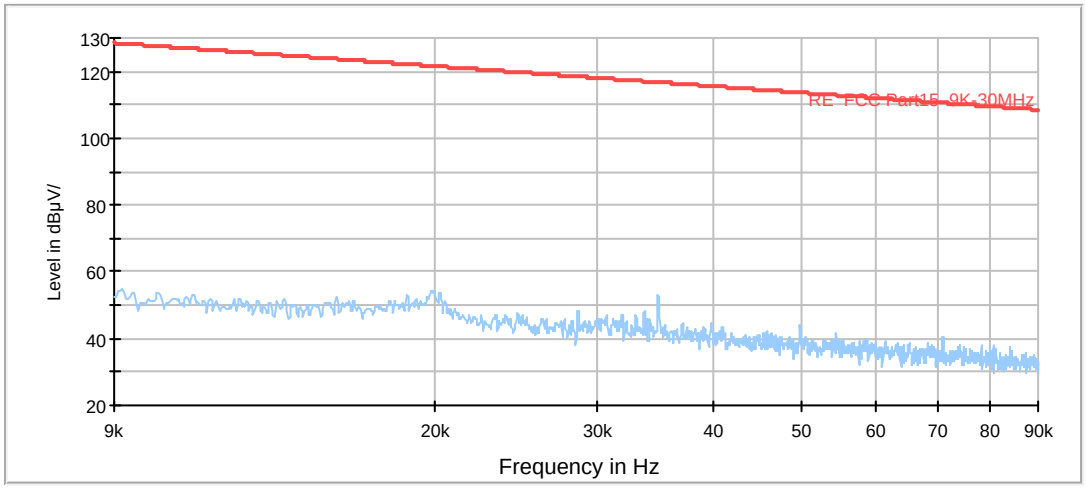
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

The following graphs display the maximum values of horizontal and vertical by software.
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.
After the pretest, MIMO was selected as the worst antenna for 802.11ax HE20/HE40 and 802.11n HT20/ HT40. SISO Antenna 1 was selected as the worst SISO antenna.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11n (HT40) CH6 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.
A font (Level in dBµV/)in the test plot =(level in dB µ V/m)

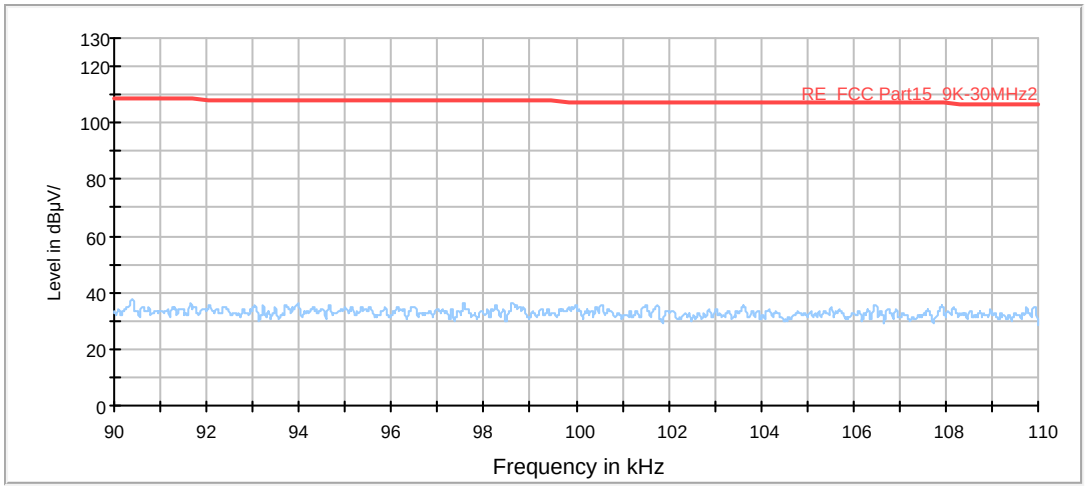
Continuous TX mode:

FCC RE 9K-90KHz AV



Radiates Emission from 9KHz to 90KHz

FCC RE 90K-110KHz QP



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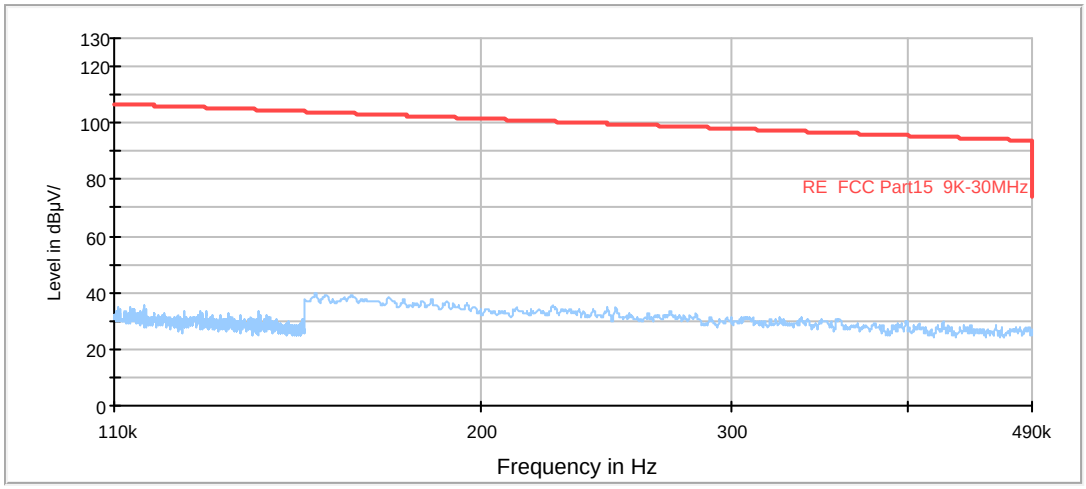
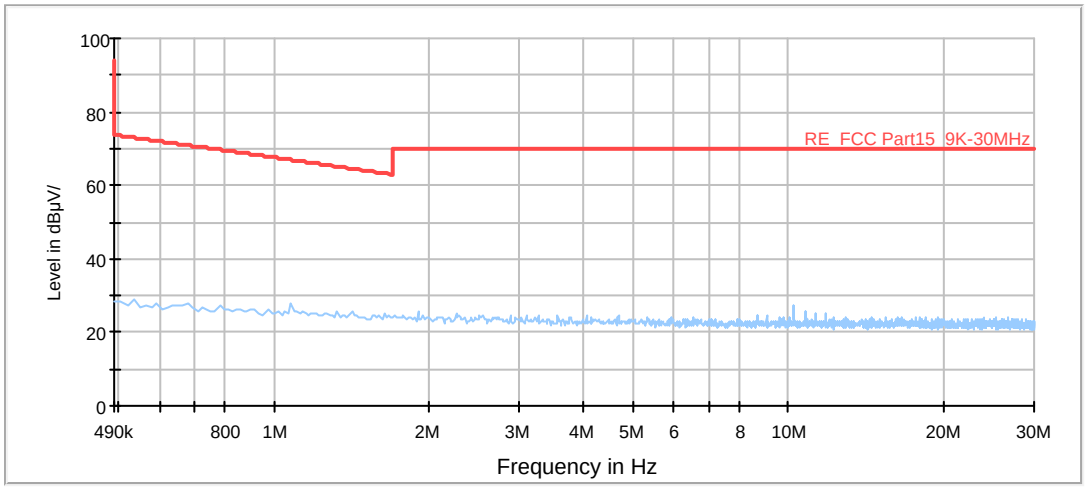
Radiates Emission from 90KHz to 110KHz

FCC RE 110K-490KHz AV



Radiates Emission from 110KHz to 490KHz

FCC RE 490K-30MHz QP



Radiates Emission from 490KHz to 30MHz

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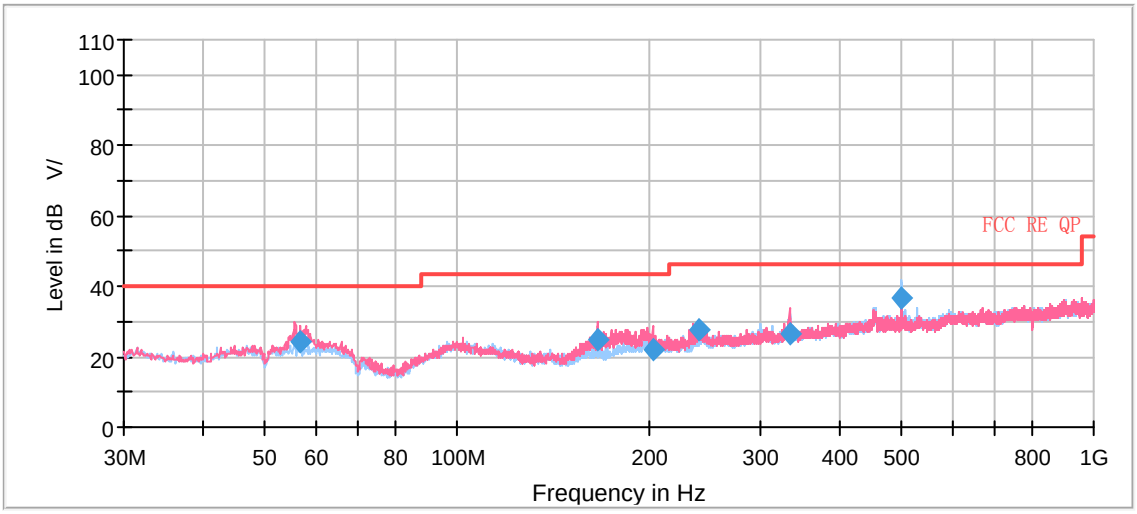

Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
56.805400	24.15	100.0	V	4.0	-4.8	15.85	40.00
165.965033	24.80	100.0	V	67.0	-8.8	18.70	43.50
203.397500	22.15	100.0	V	181.0	-6.3	21.35	43.50
240.001400	27.78	100.0	V	205.0	-4.6	18.22	46.00
333.021318	26.31	100.0	V	206.0	-2.6	19.69	46.00
498.733314	36.43	175.0	H	178.0	0.3	9.57	46.00

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
2. Margin = Limit – Quasi-Peak

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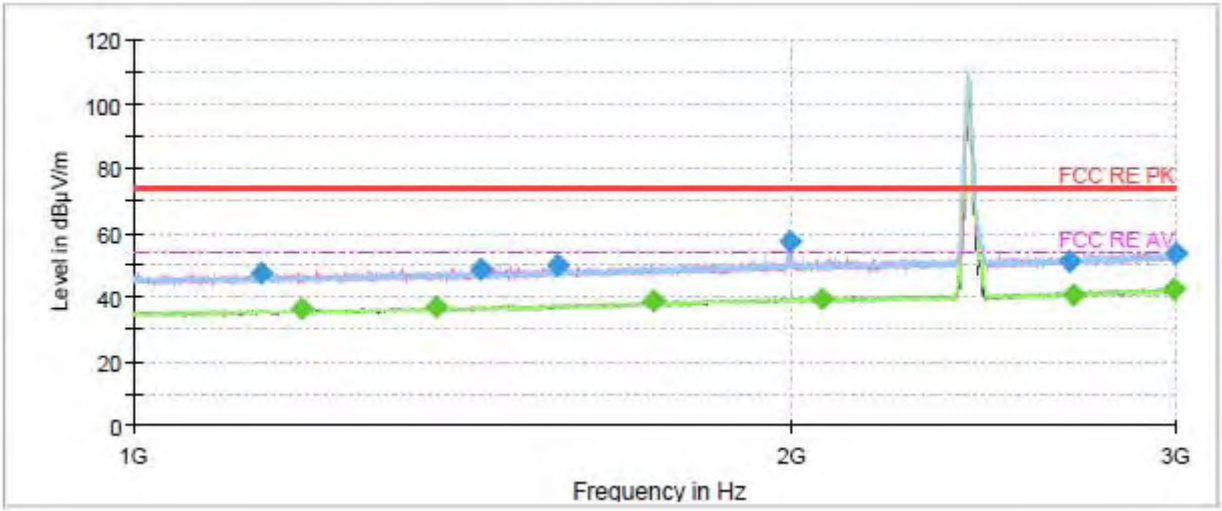
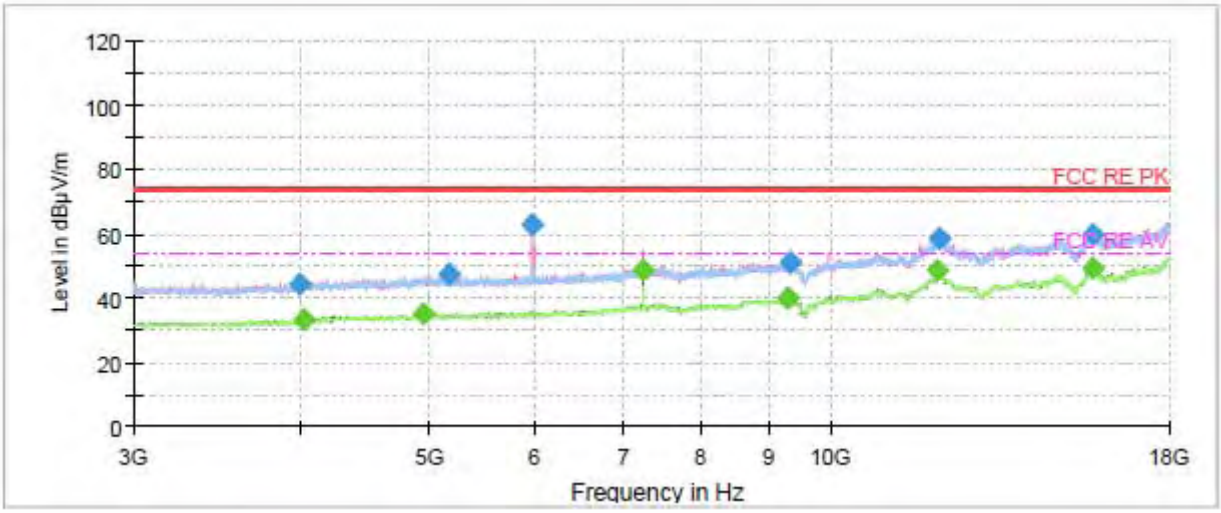
802.11b CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1145.000000	47.26	---	200.0	H	156.0	-10.4	26.74	74.00
1193.750000	---	36.13	200.0	H	31.0	-10.2	17.87	54.00
1377.000000	---	37.13	100.0	H	174.0	-9.1	16.87	54.00
1441.000000	48.48	---	100.0	H	295.0	-8.7	25.52	74.00
1563.500000	49.68	---	200.0	V	271.0	-7.9	24.32	74.00
1730.500000	---	38.51	200.0	V	195.0	-7.0	15.49	54.00
1998.750000	57.50	---	200.0	V	187.0	-5.6	16.50	74.00
2066.500000	---	39.62	200.0	H	229.0	-5.5	14.38	54.00
2683.750000	50.81	---	200.0	V	172.0	-3.7	23.19	74.00
2691.000000	---	40.60	200.0	V	290.0	-3.7	13.40	54.00
2995.500000	---	42.70	200.0	V	290.0	-2.7	11.30	54.00
2997.750000	53.84	---	200.0	V	330.0	-2.7	20.16	74.00

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

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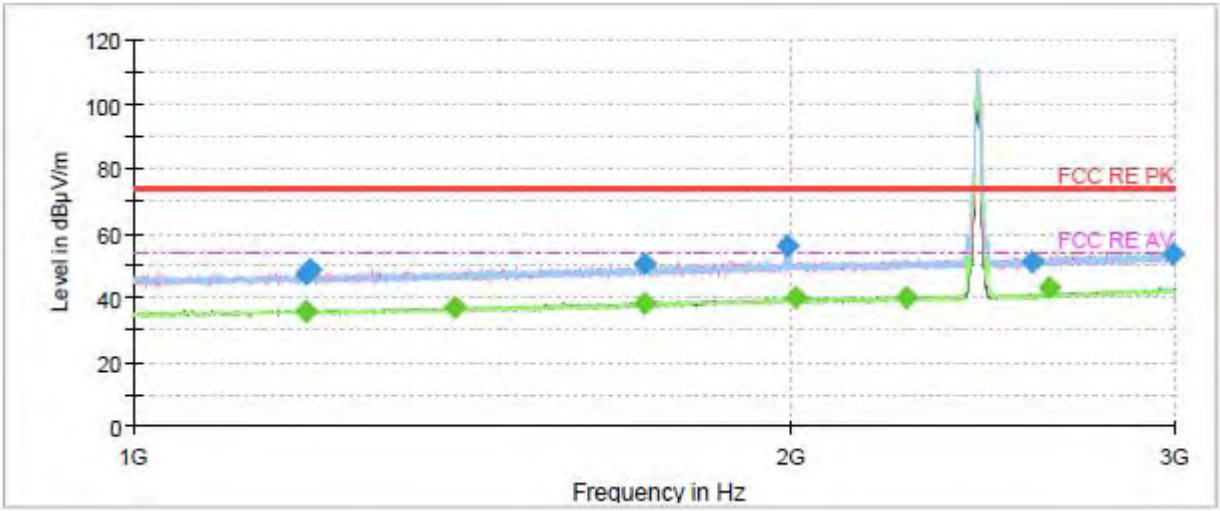
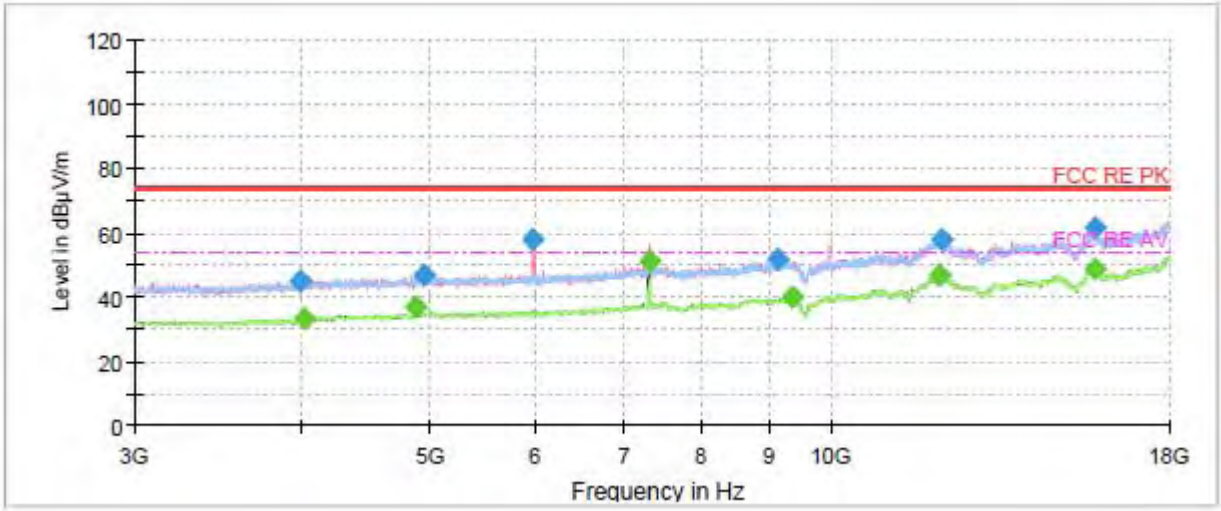
802.11b CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1199.750000	47.48	---	100.0	H	252.0	-10.2	26.52	74.00
1200.250000	---	35.95	200.0	V	353.0	-10.2	18.05	54.00
1205.250000	48.42	---	200.0	V	353.0	-10.2	25.58	74.00
1405.000000	---	36.93	200.0	H	84.0	-8.8	17.07	54.00
1715.500000	---	38.30	200.0	H	47.0	-7.1	15.70	54.00
1716.000000	50.27	---	100.0	H	217.0	-7.1	23.73	74.00
1993.750000	55.97	---	200.0	V	118.0	-5.6	18.03	74.00
2009.250000	---	39.97	100.0	H	248.0	-5.6	14.03	54.00
2259.250000	---	39.82	200.0	V	212.0	-4.9	14.18	54.00
2579.250000	50.91	---	100.0	V	178.0	-4.3	23.09	74.00
2627.500000	---	42.91	200.0	V	220.0	-4.0	11.09	54.00
2992.500000	53.55	---	200.0	V	0.0	-2.7	20.45	74.00

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

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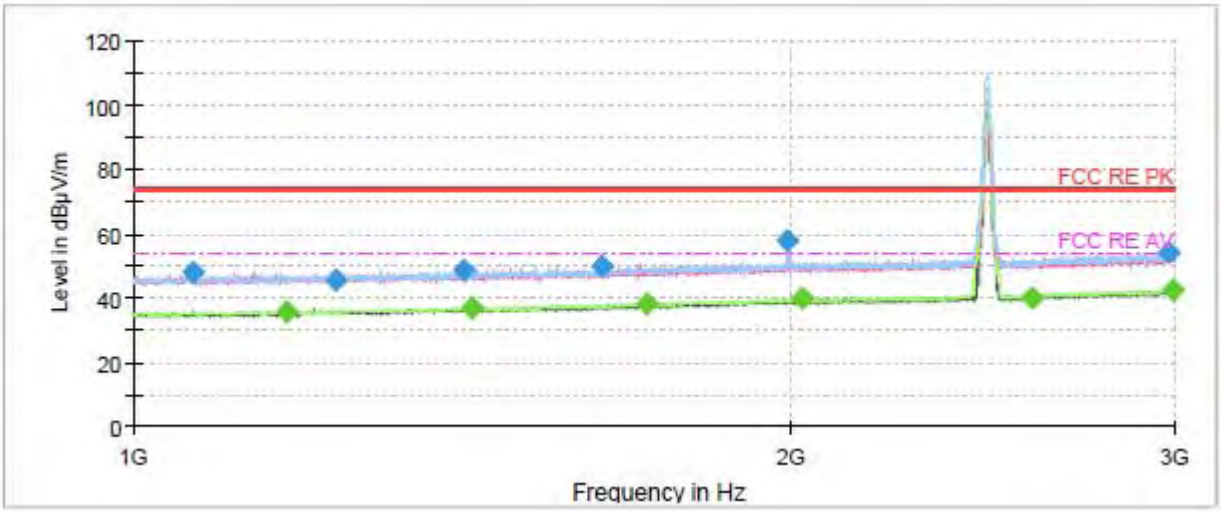
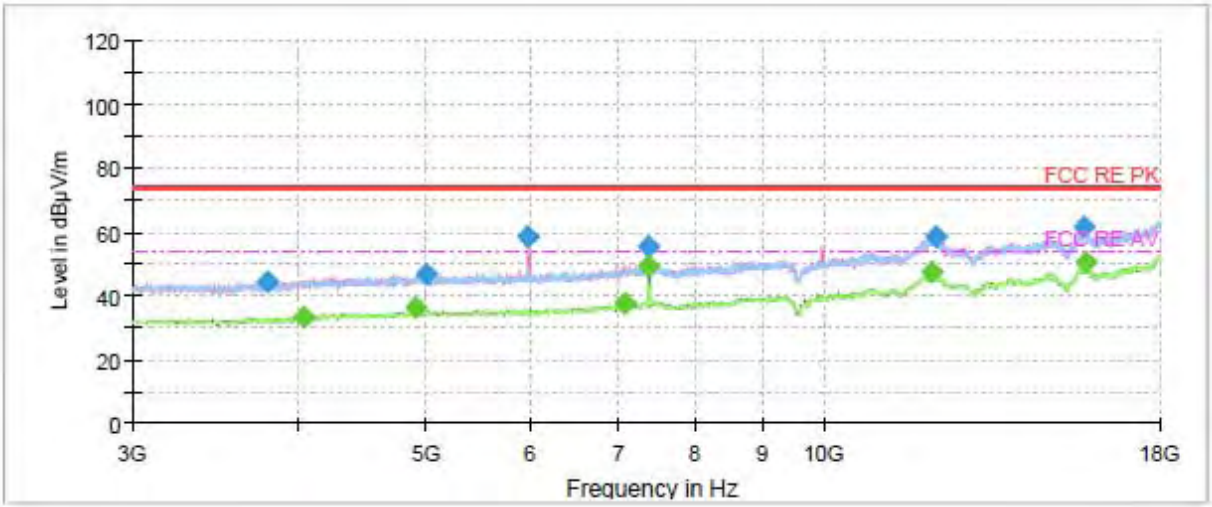
802.11b CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1064.750000	48.07	---	200.0	H	210.0	-10.7	25.93	74.00
1175.500000	---	35.85	200.0	H	76.0	-10.3	18.15	54.00
1238.250000	45.56	---	200.0	V	355.0	-9.9	28.44	74.00
1416.000000	48.53	---	100.0	H	247.0	-8.8	25.47	74.00
1428.500000	---	37.22	200.0	H	61.0	-8.7	16.78	54.00
1638.250000	49.78	---	200.0	H	253.0	-7.6	24.22	74.00
1720.250000	---	38.44	200.0	H	36.0	-7.0	15.56	54.00
1992.500000	57.59	---	200.0	V	19.0	-5.6	16.41	74.00
2025.250000	---	39.79	200.0	H	202.0	-5.5	14.21	54.00
2582.750000	---	39.76	200.0	V	355.0	-4.2	14.24	54.00
2978.250000	53.91	---	100.0	H	274.0	-2.7	20.09	74.00
2991.250000	---	42.69	100.0	H	200.0	-2.7	11.31	54.00

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

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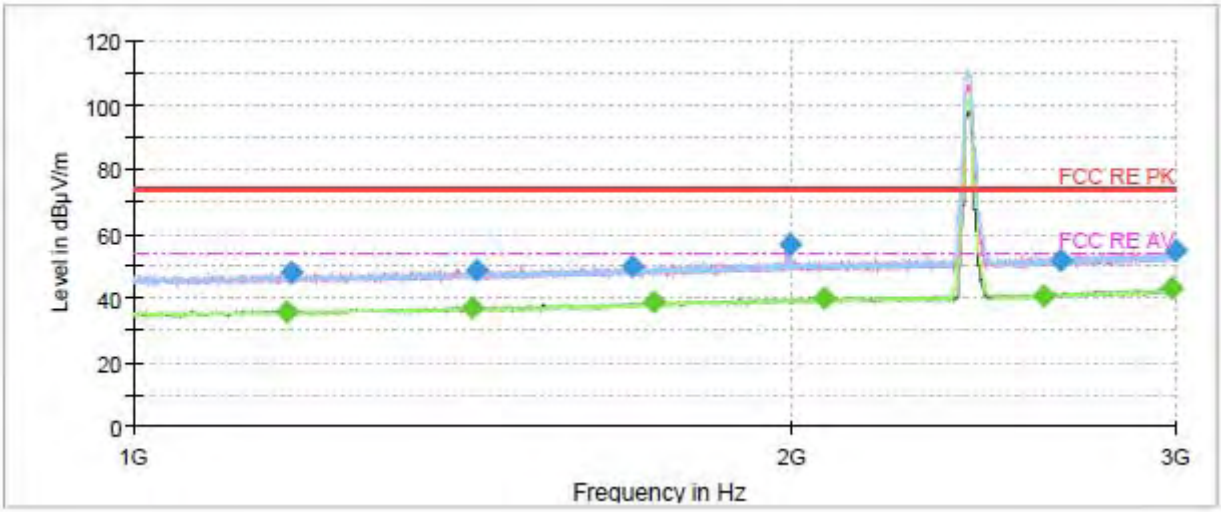
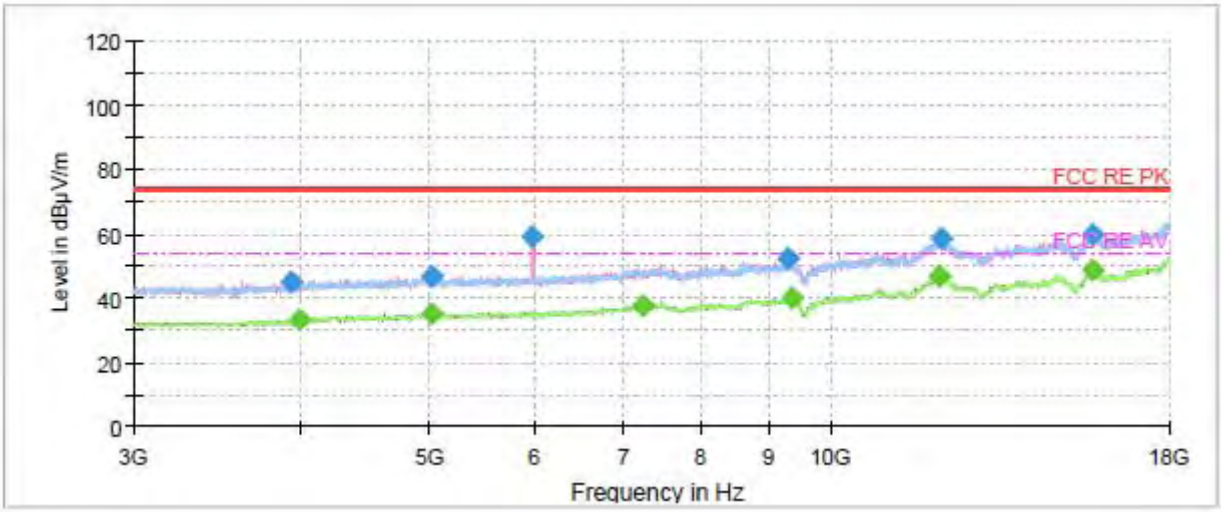
802.11g CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1176.500000	---	35.85	200.0	H	74.0	-10.3	18.15	54.00
1181.000000	48.12	---	200.0	V	297.0	-10.3	25.88	74.00
1430.750000	---	37.15	200.0	V	355.0	-8.7	16.85	54.00
1435.500000	48.46	---	200.0	V	352.0	-8.7	25.54	74.00
1691.000000	50.05	---	200.0	H	86.0	-7.2	23.95	74.00
1732.000000	---	38.50	200.0	V	116.0	-7.0	15.50	54.00
1998.250000	56.55	---	200.0	V	128.0	-5.6	17.45	74.00
2069.500000	---	39.97	200.0	V	238.0	-5.5	14.03	54.00
2609.250000	---	40.33	200.0	V	258.0	-4.1	13.67	54.00
2658.500000	51.48	---	100.0	H	291.0	-3.9	22.52	74.00
2984.000000	---	42.78	200.0	V	57.0	-2.7	11.22	54.00
2998.500000	54.75	---	100.0	H	0.0	-2.7	19.25	74.00

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

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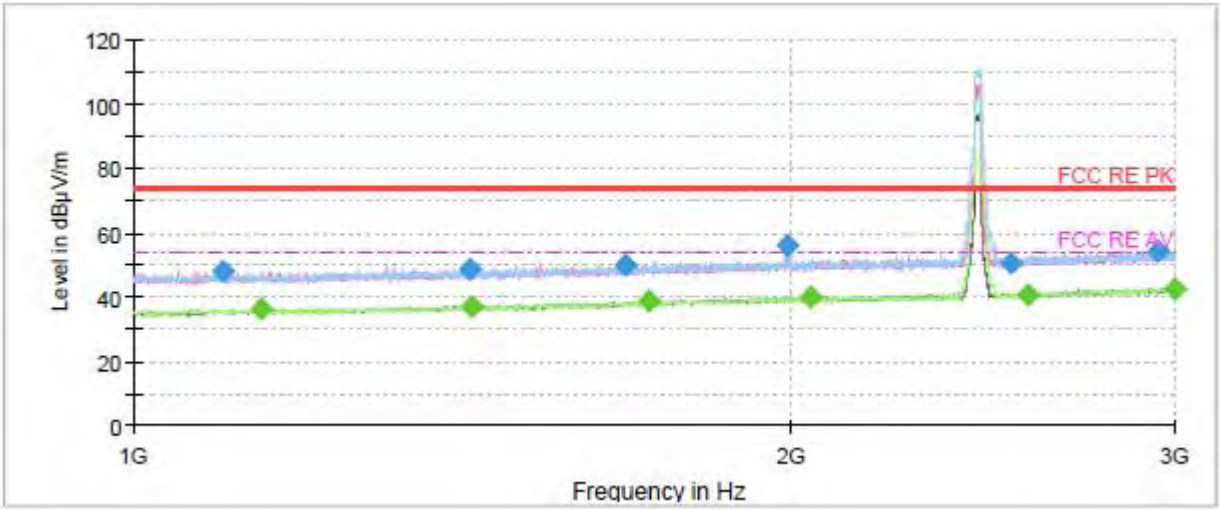
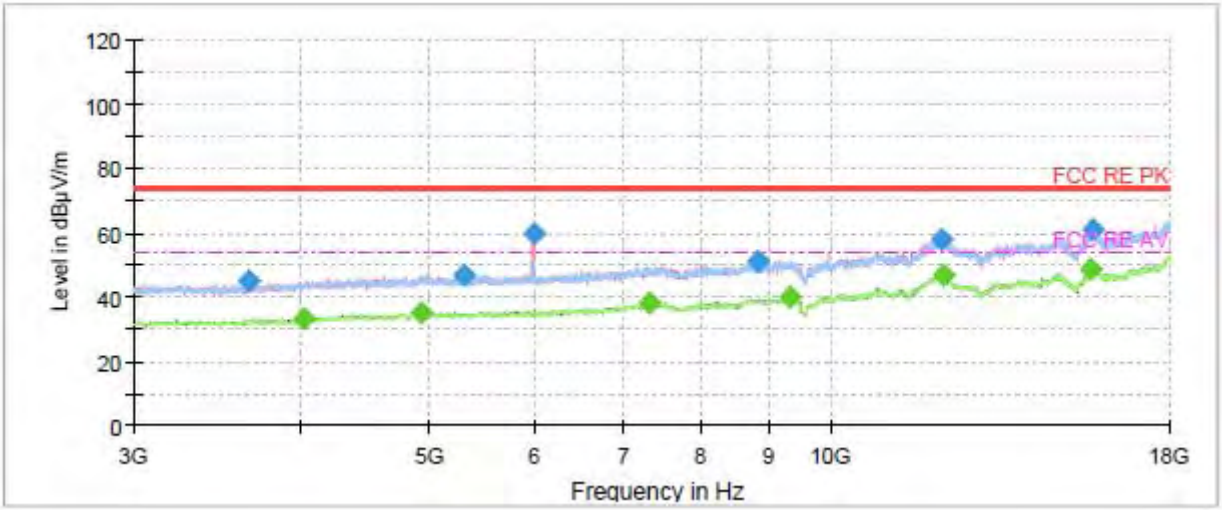
802.11g CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1098.750000	48.21	---	200.0	V	147.0	-10.6	25.79	74.00
1144.250000	---	36.20	100.0	H	318.0	-10.4	17.80	54.00
1427.000000	48.90	---	100.0	H	129.0	-8.7	25.10	74.00
1430.000000	---	37.15	100.0	H	299.0	-8.7	16.85	54.00
1679.250000	49.96	---	100.0	H	220.0	-7.3	24.04	74.00
1721.250000	---	38.61	200.0	H	142.0	-7.0	15.39	54.00
1993.000000	55.76	---	200.0	V	110.0	-5.6	18.24	74.00
2041.500000	---	39.77	200.0	V	357.0	-5.5	14.23	54.00
2526.000000	50.57	---	100.0	H	193.0	-4.4	23.43	74.00
2567.000000	---	40.64	200.0	V	298.0	-4.4	13.36	54.00
2947.250000	54.45	---	100.0	H	212.0	-2.9	19.55	74.00
2999.500000	---	42.76	200.0	H	244.0	-2.7	11.24	54.00

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

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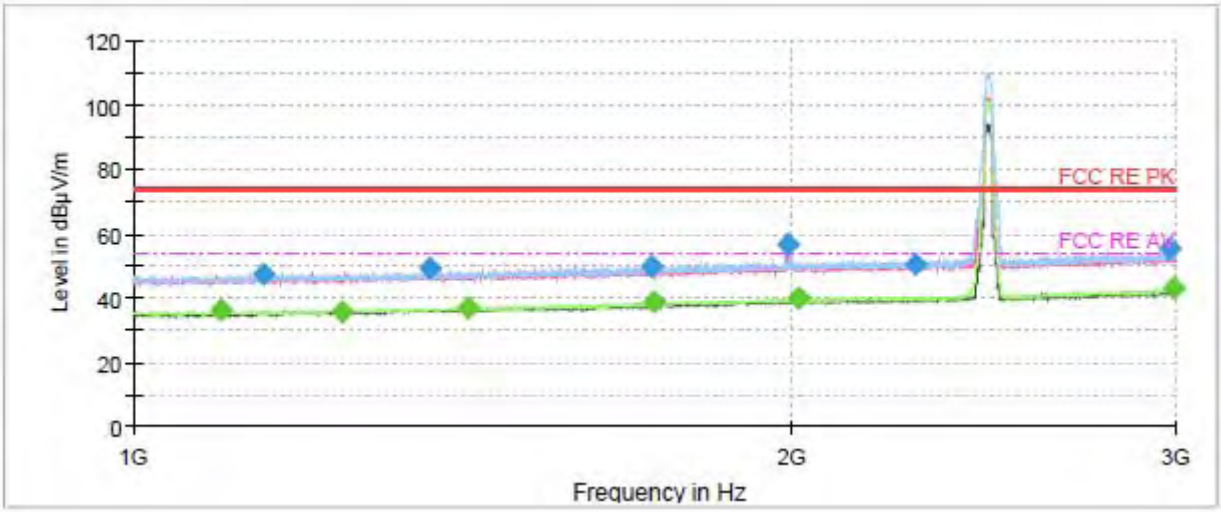
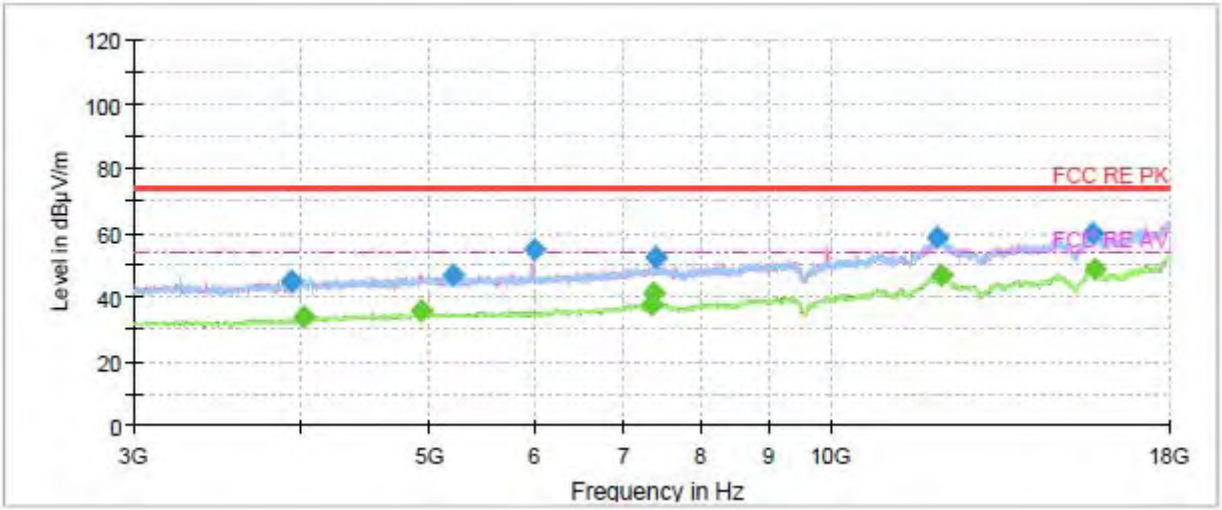
802.11g CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1097.500000	---	36.03	100.0	H	236.0	-10.7	17.97	54.00
1147.000000	47.56	---	100.0	H	181.0	-10.4	26.44	74.00
1245.500000	---	35.75	200.0	H	163.0	-9.9	18.25	54.00
1366.000000	49.09	---	100.0	H	332.0	-9.1	24.91	74.00
1423.750000	---	37.01	200.0	H	17.0	-8.8	16.99	54.00
1728.000000	50.06	---	100.0	H	288.0	-7.0	23.94	74.00
1728.500000	---	38.51	200.0	H	71.0	-7.0	15.49	54.00
1993.000000	56.63	---	200.0	V	15.0	-5.6	17.37	74.00
2015.750000	---	39.90	200.0	H	25.0	-5.5	14.10	54.00
2281.000000	50.45	---	100.0	V	0.0	-4.9	23.55	74.00
2982.250000	55.47	---	200.0	H	9.0	-2.7	18.53	74.00
2994.500000	---	43.01	100.0	H	176.0	-2.7	10.99	54.00

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

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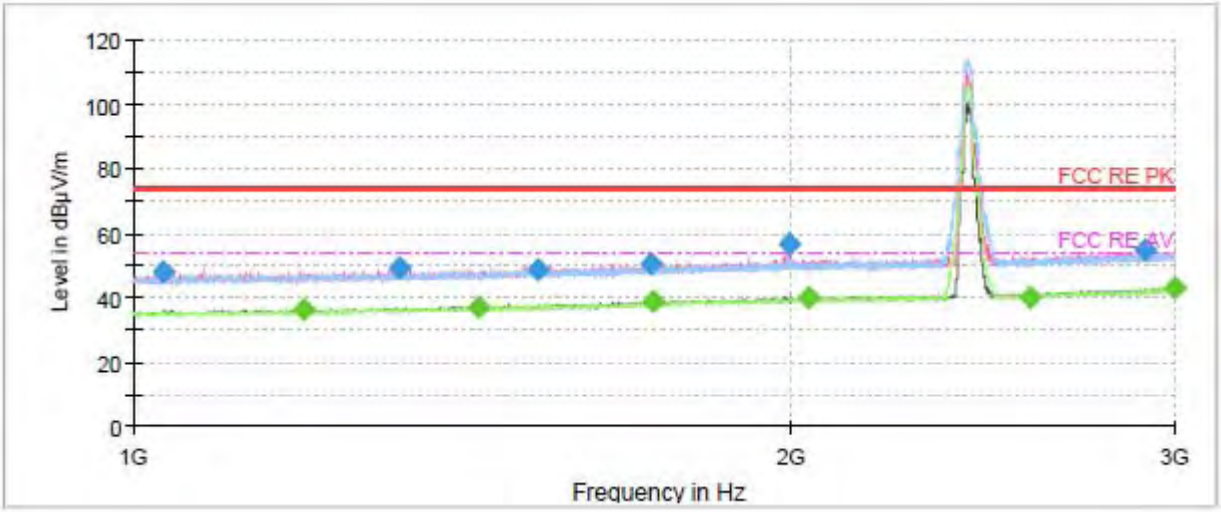
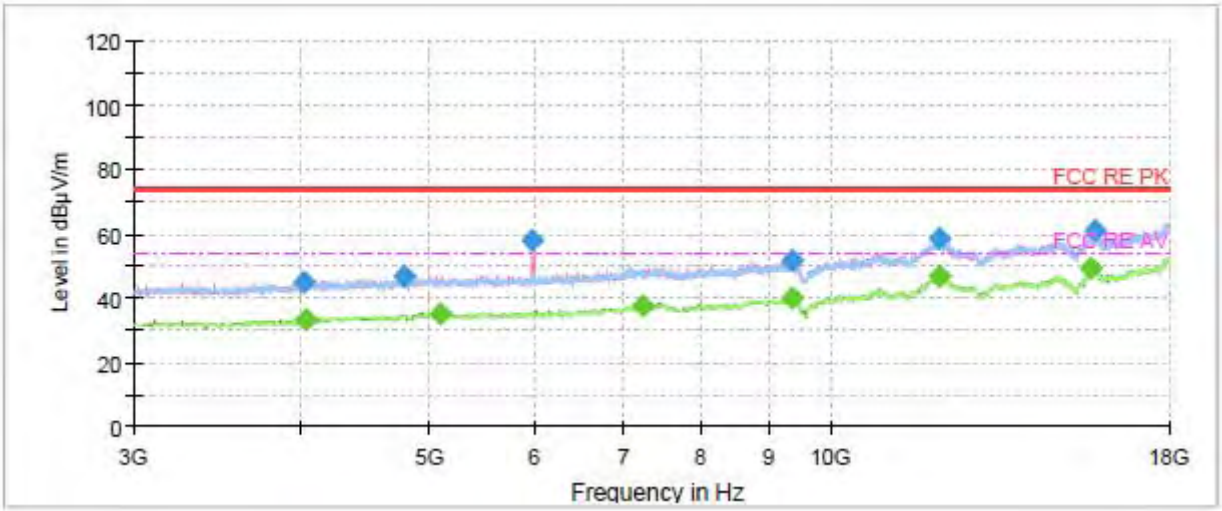
802.11n (HT20) CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1031.000000	47.87	---	100.0	H	181.0	-10.8	26.13	74.00
1197.000000	---	36.10	100.0	V	160.0	-10.2	17.90	54.00
1323.000000	48.92	---	200.0	V	260.0	-9.4	25.08	74.00
1439.250000	---	37.01	100.0	V	271.0	-8.7	16.99	54.00
1531.000000	48.80	---	200.0	V	67.0	-8.2	25.20	74.00
1724.750000	50.26	---	200.0	V	193.0	-7.0	23.74	74.00
1731.500000	---	38.64	100.0	V	96.0	-7.0	15.36	54.00
1999.250000	56.73	---	200.0	V	263.0	-5.6	17.27	74.00
2039.750000	---	39.78	200.0	H	202.0	-5.5	14.22	54.00
2573.250000	---	40.17	100.0	V	22.0	-4.3	13.83	54.00
2908.750000	54.51	---	200.0	V	205.0	-3.0	19.49	74.00
2997.000000	---	43.01	100.0	V	105.0	-2.7	10.99	54.00

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

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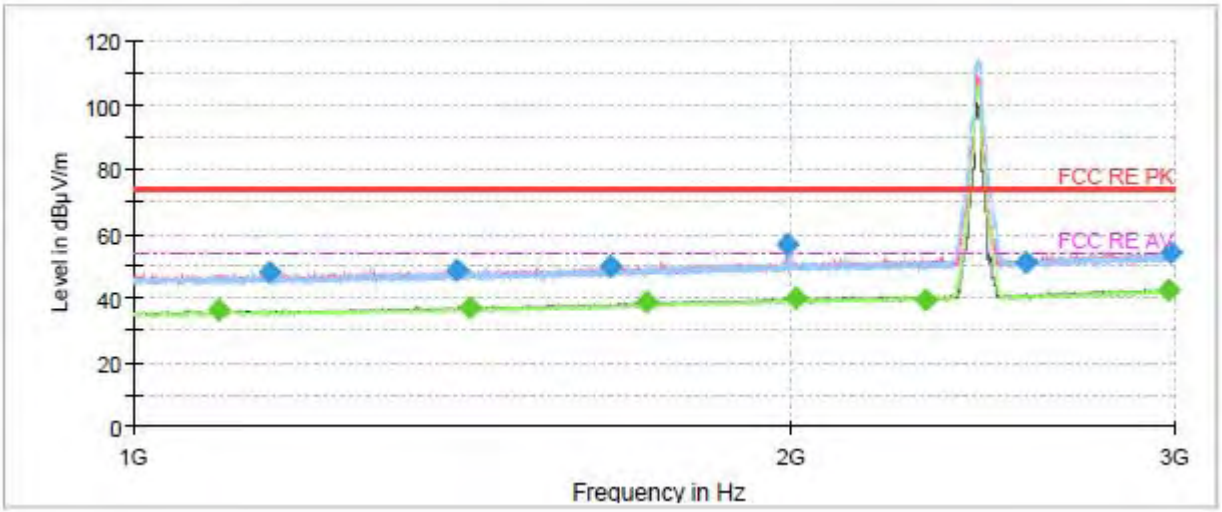
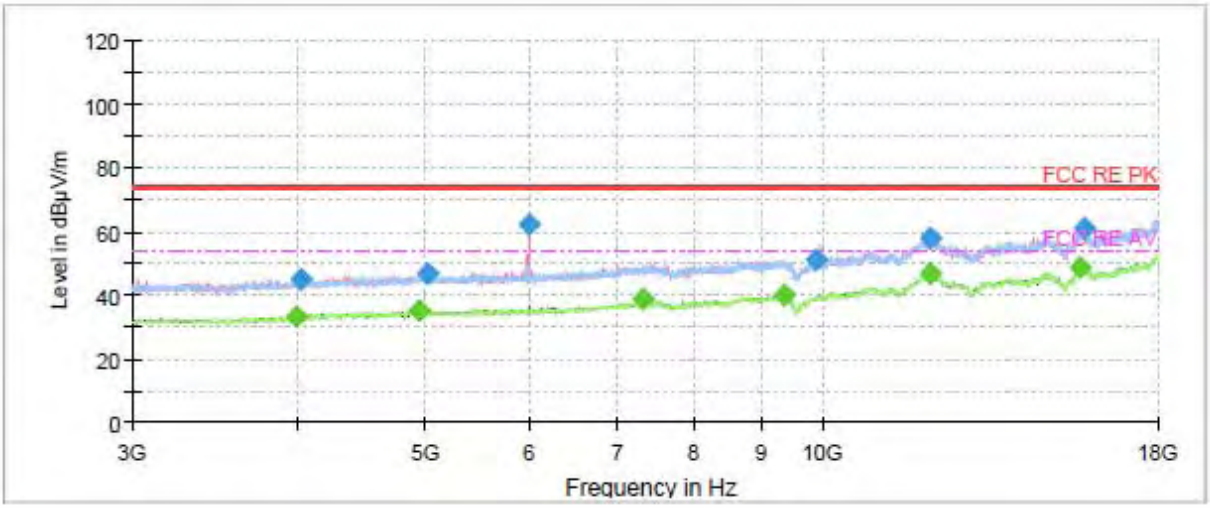
802.11n (HT20) CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1095.250000	---	36.04	200.0	V	281.0	-10.7	17.96	54.00
1154.000000	48.26	---	100.0	H	260.0	-10.4	25.74	74.00
1408.000000	48.90	---	200.0	H	66.0	-8.8	25.10	74.00
1426.500000	---	37.19	100.0	V	54.0	-8.7	16.81	54.00
1653.250000	49.96	---	100.0	V	70.0	-7.5	24.04	74.00
1717.000000	---	38.46	100.0	V	47.0	-7.0	15.54	54.00
1991.250000	56.60	---	200.0	V	352.0	-5.7	17.40	74.00
2009.750000	---	39.91	200.0	V	140.0	-5.6	14.09	54.00
2306.500000	---	39.58	100.0	V	31.0	-4.9	14.42	54.00
2562.500000	51.13	---	100.0	V	70.0	-4.4	22.87	74.00
2982.000000	---	42.66	100.0	V	169.0	-2.7	11.34	54.00
2987.250000	54.22	---	200.0	V	214.0	-2.7	19.78	74.00

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

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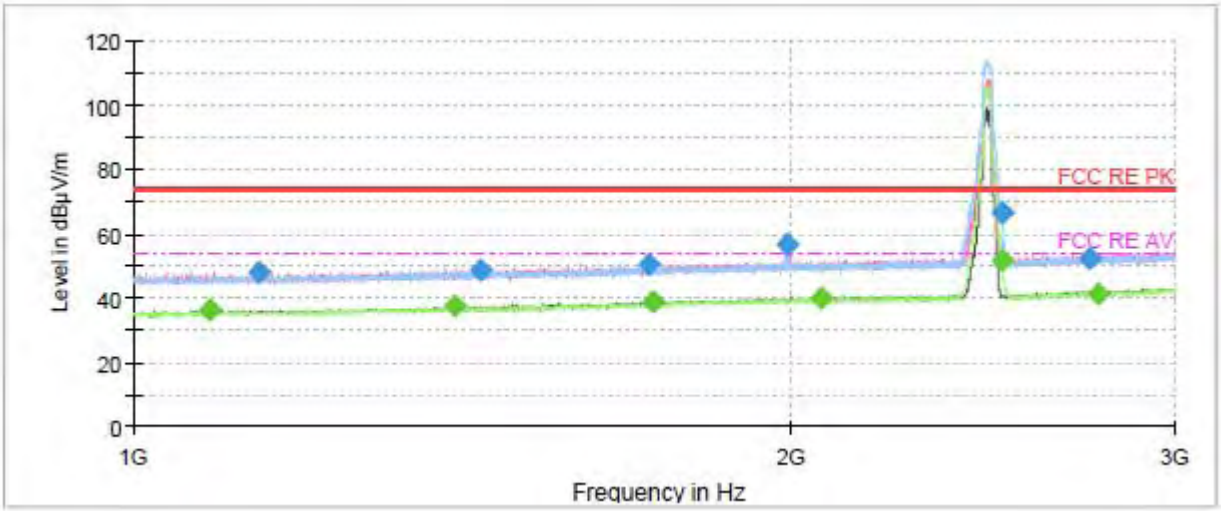
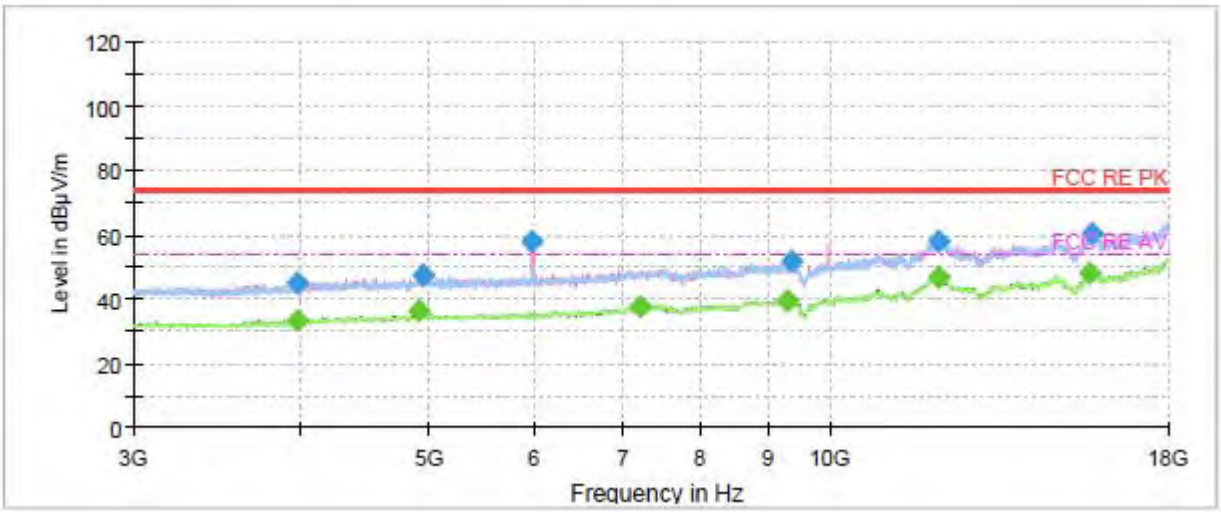
802.11n (HT20) CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1083.750000	---	36.16	200.0	V	312.0	-10.7	17.84	54.00
1142.500000	47.85	---	100.0	V	116.0	-10.4	26.15	74.00
1403.750000	---	37.26	200.0	H	62.0	-8.8	16.74	54.00
1440.750000	48.69	---	100.0	V	116.0	-8.7	25.31	74.00
1723.500000	50.33	---	200.0	V	241.0	-7.0	23.67	74.00
1730.500000	---	38.49	100.0	V	214.0	-7.0	15.51	54.00
1991.000000	56.65	---	200.0	V	269.0	-5.7	17.35	74.00
2065.500000	---	39.79	100.0	H	253.0	-5.5	14.21	54.00
2498.250000	---	51.48	200.0	H	334.0	-4.5	2.52	54.00
2498.500000	66.30	---	100.0	H	96.0	-4.5	7.70	74.00
2740.250000	52.08	---	200.0	V	296.0	-3.5	21.92	74.00
2769.250000	---	41.36	100.0	V	242.0	-3.5	12.64	54.00

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

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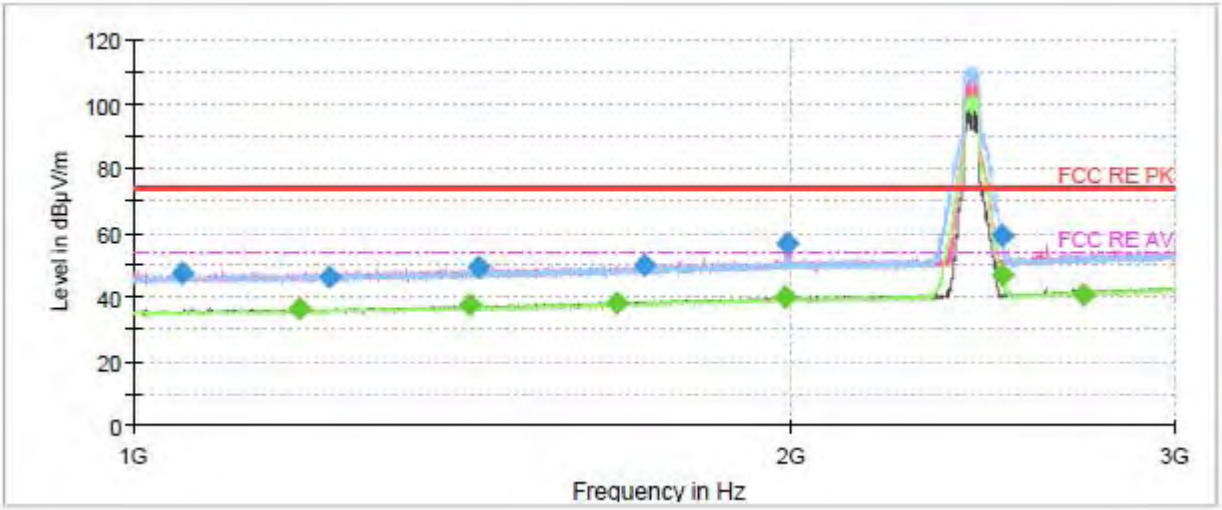
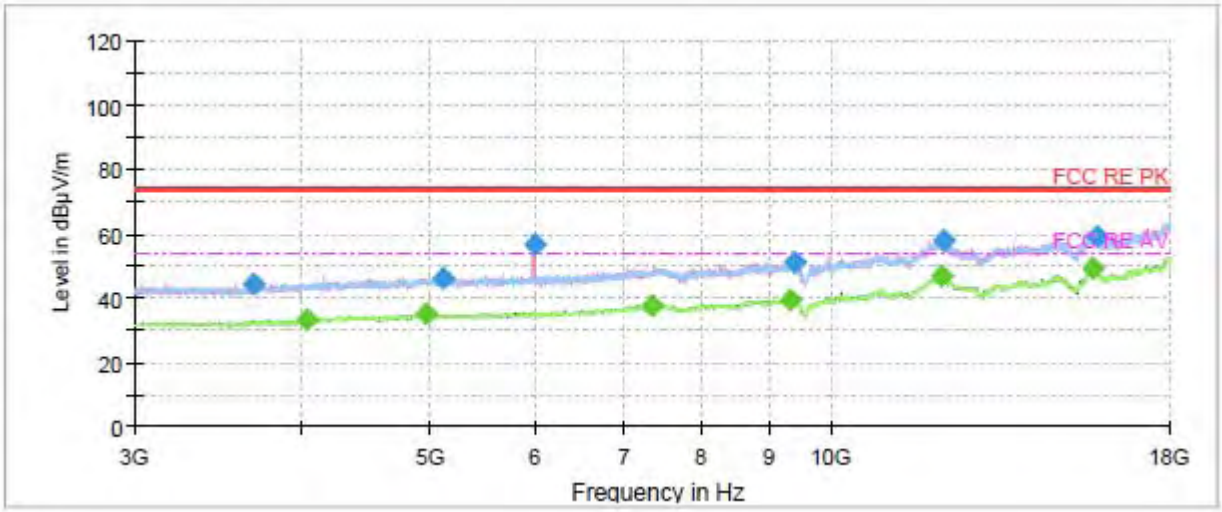
802.11n (HT40) CH3



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1053.000000	47.61	---	200.0	H	179.0	-10.8	26.39	74.00
1192.500000	---	36.30	200.0	V	276.0	-10.2	17.70	54.00
1230.750000	46.28	---	200.0	H	44.0	-10.0	27.72	74.00
1427.250000	---	37.37	100.0	V	151.0	-8.7	16.63	54.00
1440.000000	49.07	---	200.0	V	179.0	-8.7	24.93	74.00
1666.250000	---	38.40	100.0	H	203.0	-7.3	15.60	54.00
1716.250000	50.10	---	100.0	V	290.0	-7.1	23.90	74.00
1989.250000	---	40.21	200.0	V	238.0	-5.7	13.79	54.00
1995.250000	56.59	---	200.0	V	124.0	-5.6	17.41	74.00
2499.750000	---	46.73	200.0	H	334.0	-4.5	7.27	54.00
2499.750000	59.38	---	200.0	H	334.0	-4.5	14.62	74.00
2725.750000	---	40.86	100.0	H	65.0	-3.6	13.14	54.00

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

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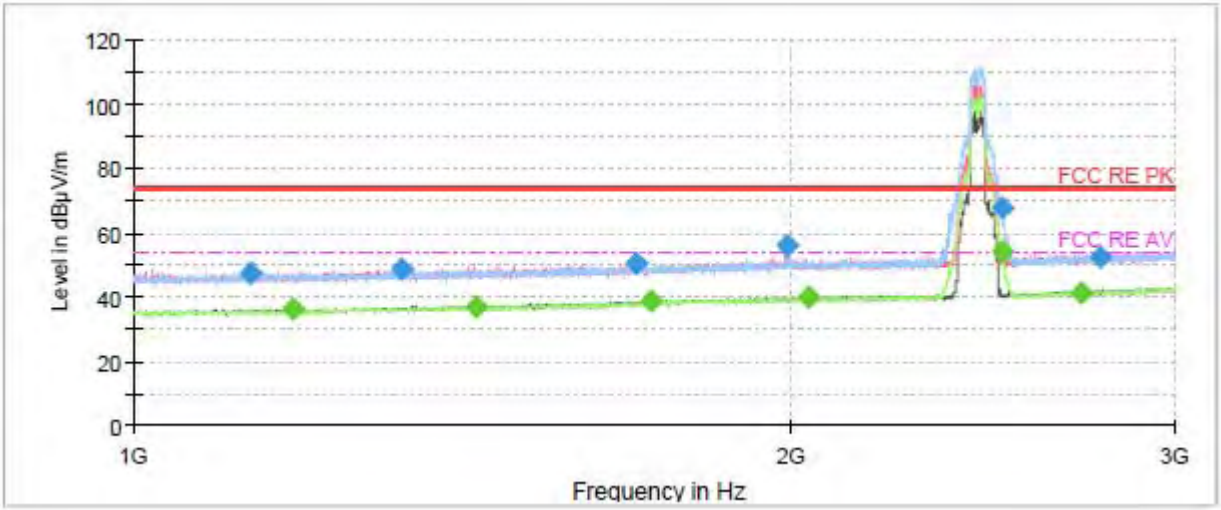
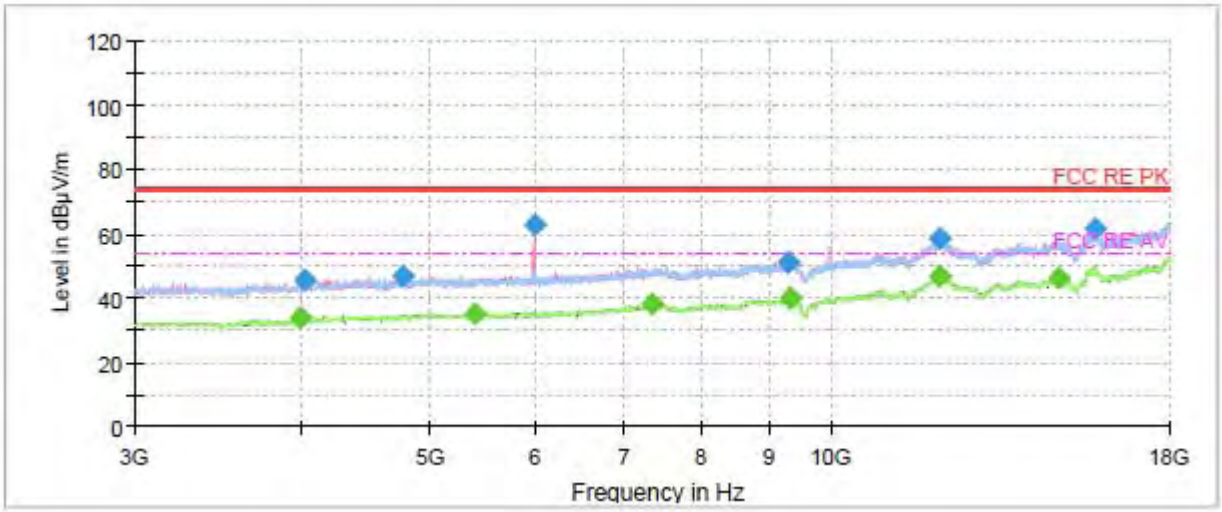
802.11n (HT40) CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1131.750000	47.62	---	200.0	H	182.0	-10.5	26.38	74.00
1182.250000	---	36.10	200.0	V	288.0	-10.3	17.90	54.00
1325.750000	48.68	---	100.0	H	194.0	-9.4	25.32	74.00
1435.750000	---	37.16	100.0	H	183.0	-8.7	16.84	54.00
1698.000000	50.35	---	100.0	H	33.0	-7.2	23.65	74.00
1727.250000	---	38.48	100.0	H	274.0	-7.0	15.52	54.00
1993.750000	55.86	---	200.0	V	15.0	-5.6	18.14	74.00
2039.000000	---	39.97	200.0	V	198.0	-5.5	14.03	54.00
2498.500000	---	53.93	200.0	H	332.0	-4.5	0.07	54.00
2500.000000	67.68	---	200.0	H	332.0	-4.5	6.32	74.00
2720.500000	---	41.07	200.0	V	323.0	-3.6	12.93	54.00
2774.250000	52.53	---	200.0	V	312.0	-3.5	21.47	74.00

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

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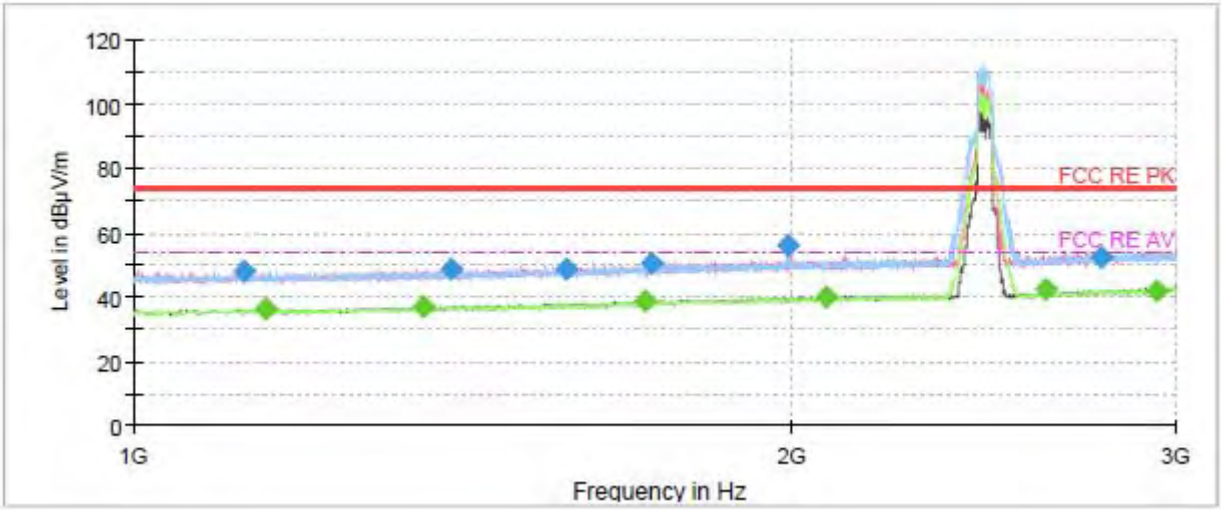
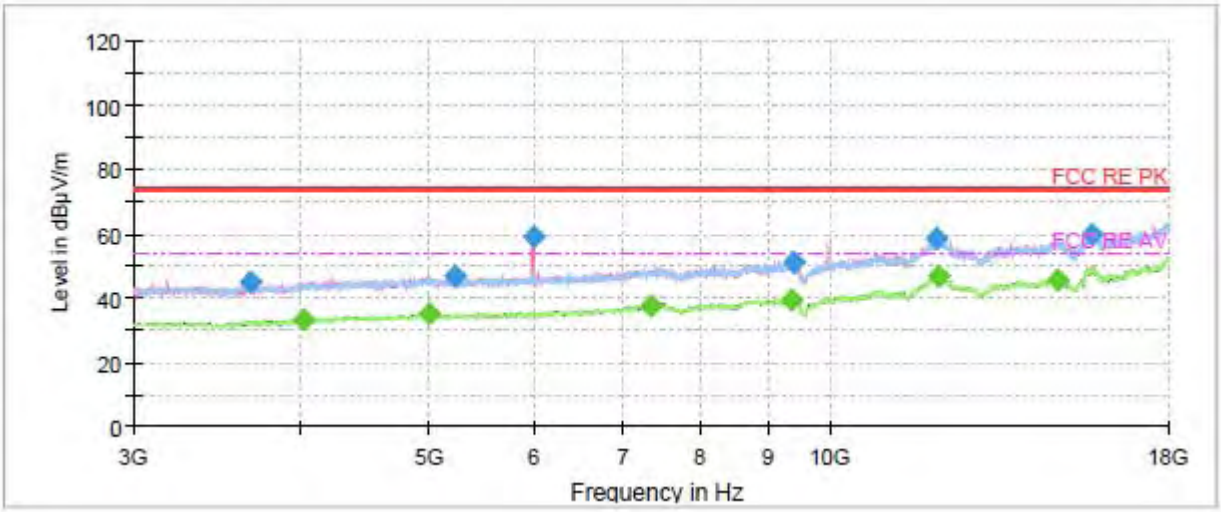
802.11n (HT40) CH9



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1124.250000	47.74	---	100.0	V	251.0	-10.6	26.26	74.00
1149.000000	---	36.33	100.0	V	164.0	-10.4	17.67	54.00
1358.250000	---	37.11	100.0	V	231.0	-9.1	16.89	54.00
1398.000000	48.70	---	100.0	V	90.0	-8.9	25.30	74.00
1577.250000	48.50	---	100.0	V	117.0	-7.9	25.50	74.00
1716.500000	---	38.58	100.0	V	59.0	-7.1	15.42	54.00
1726.250000	50.50	---	100.0	V	55.0	-7.0	23.50	74.00
1993.000000	56.27	---	200.0	V	120.0	-5.6	17.73	74.00
2076.250000	---	39.87	200.0	H	34.0	-5.4	14.13	54.00
2616.750000	---	42.73	200.0	H	136.0	-4.1	11.27	54.00
2776.250000	52.51	---	200.0	V	356.0	-3.5	21.49	74.00
2940.250000	---	41.89	100.0	H	185.0	-2.9	12.11	54.00

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

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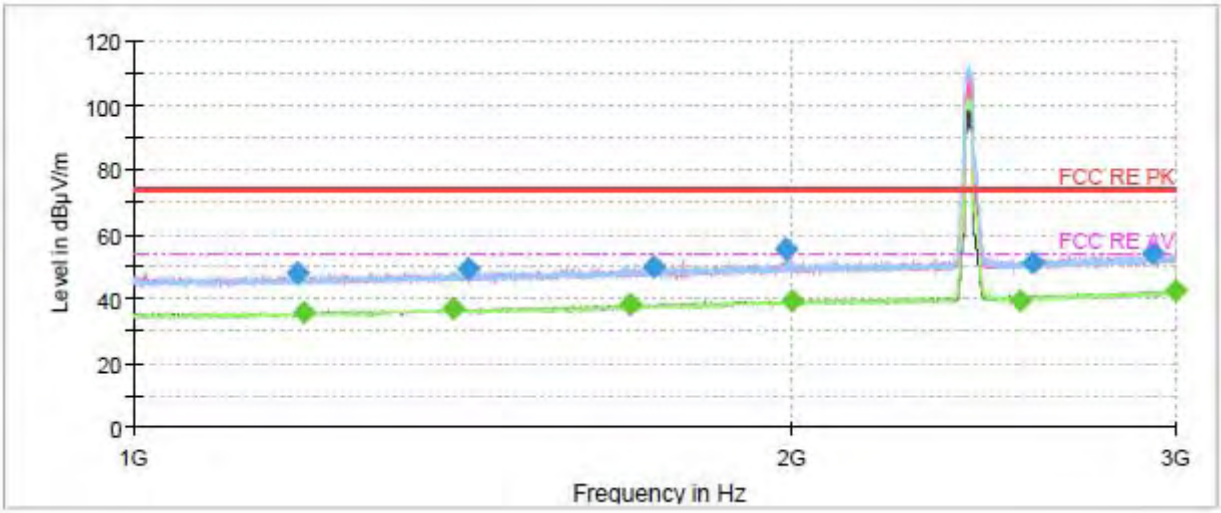
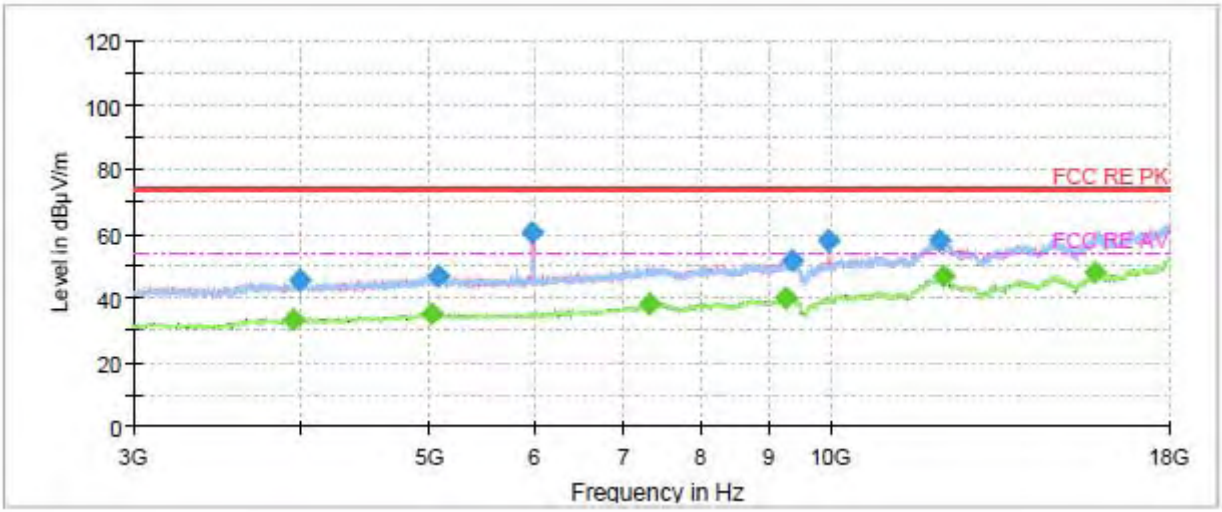
802.11ax (HE20) CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1190.000000	47.78	---	200.0	H	223.0	-10.2	26.22	74.00
1197.250000	---	35.63	100.0	V	87.0	-10.2	18.37	54.00
1402.000000	---	36.74	200.0	H	283.0	-8.9	17.26	54.00
1422.000000	48.93	---	100.0	V	212.0	-8.8	25.07	74.00
1688.000000	---	38.10	200.0	H	73.0	-7.2	15.90	54.00
1730.750000	49.76	---	100.0	V	197.0	-7.0	24.24	74.00
1990.750000	55.11	---	100.0	V	75.0	-5.7	18.89	74.00
2000.000000	---	39.34	100.0	V	295.0	-5.6	14.66	54.00
2546.000000	---	39.58	100.0	V	115.0	-4.4	14.42	54.00
2583.500000	50.90	---	200.0	V	0.0	-4.2	23.10	74.00
2924.500000	53.89	---	200.0	H	57.0	-3.0	20.11	74.00
2999.250000	---	42.25	100.0	V	1.0	-2.7	11.75	54.00

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

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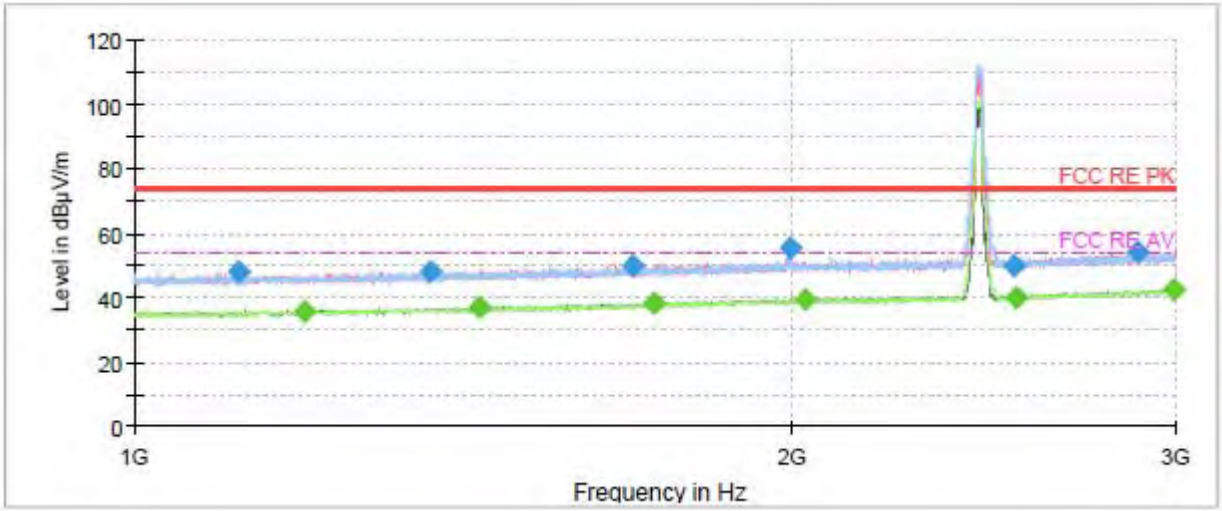
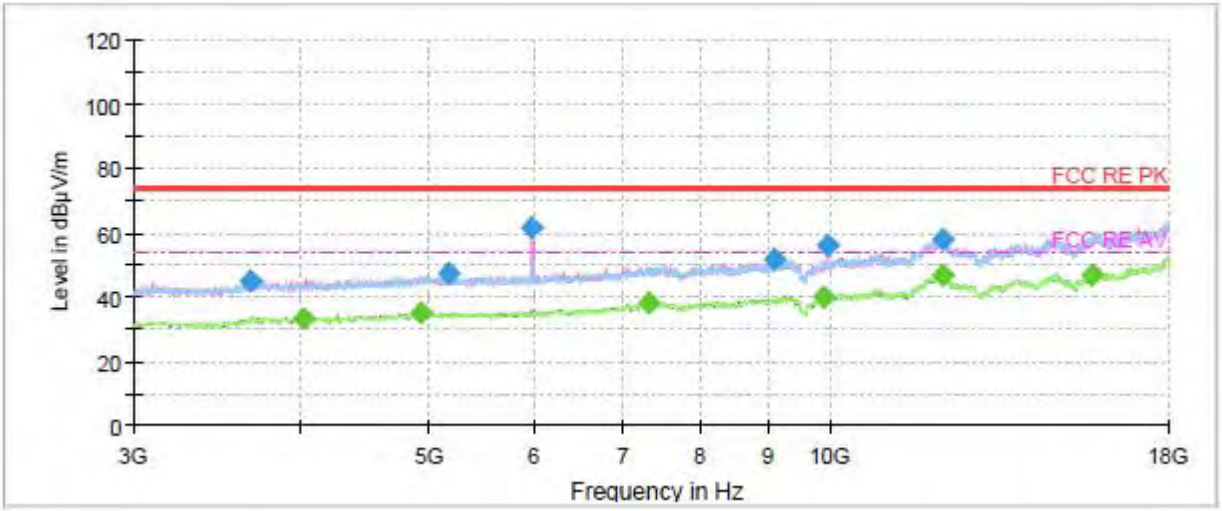
802.11ax (HE20) CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1115.750000	47.83	---	100.0	H	315.0	-10.6	26.17	74.00
1197.500000	---	35.65	100.0	V	254.0	-10.2	18.35	54.00
1367.500000	48.21	---	100.0	H	168.0	-9.1	25.79	74.00
1438.750000	---	36.66	100.0	V	187.0	-8.7	17.34	54.00
1692.750000	49.55	---	200.0	V	324.0	-7.2	24.45	74.00
1730.000000	---	38.26	200.0	H	241.0	-7.0	15.74	54.00
1999.750000	55.24	---	200.0	V	172.0	-5.6	18.76	74.00
2027.500000	---	39.48	200.0	H	305.0	-5.5	14.52	54.00
2526.750000	49.92	---	200.0	H	155.0	-4.4	24.08	74.00
2532.500000	---	39.75	200.0	H	146.0	-4.4	14.25	54.00
2880.000000	53.85	---	100.0	H	180.0	-3.1	20.15	74.00
2996.000000	---	42.54	100.0	V	35.0	-2.7	11.46	54.00

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

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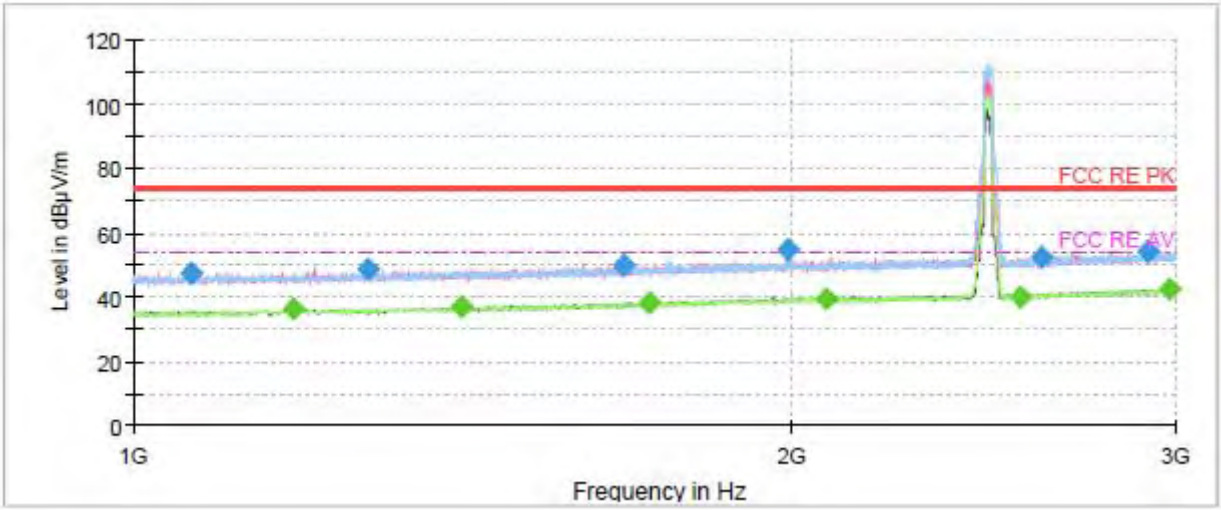
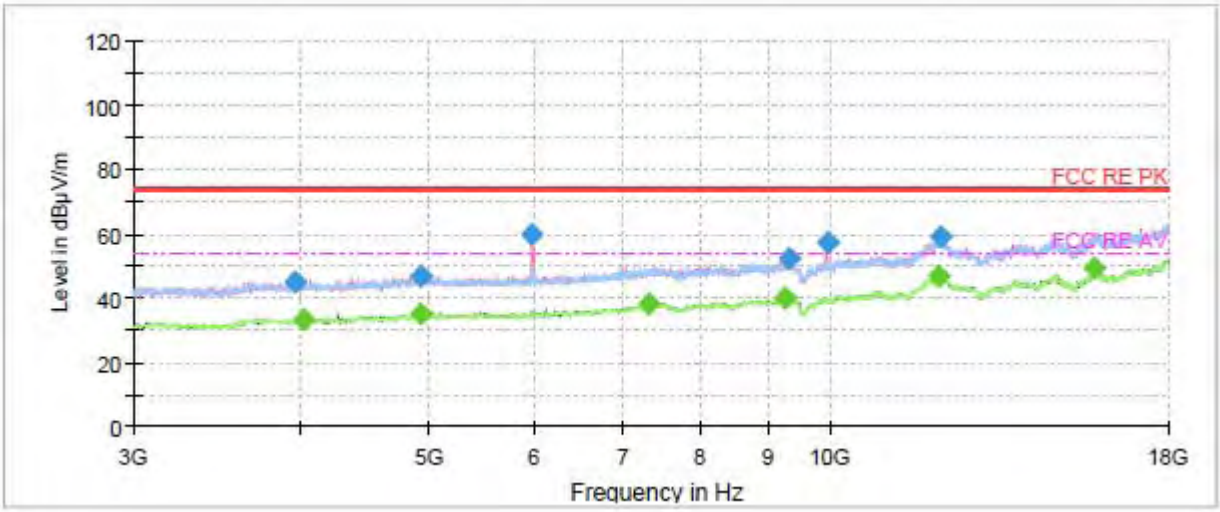
802.11ax (HE20) CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1062.000000	47.44	---	100.0	V	261.0	-10.7	26.56	74.00
1183.250000	---	36.04	200.0	H	105.0	-10.3	17.96	54.00
1281.750000	48.45	---	200.0	H	141.0	-9.7	25.55	74.00
1414.000000	---	36.79	100.0	H	75.0	-8.8	17.21	54.00
1677.250000	49.60	---	100.0	V	129.0	-7.3	24.40	74.00
1723.750000	---	38.39	200.0	H	166.0	-7.0	15.61	54.00
1994.250000	54.80	---	200.0	V	338.0	-5.6	19.20	74.00
2075.500000	---	39.60	100.0	H	282.0	-5.4	14.40	54.00
2546.750000	---	40.20	100.0	V	1.0	-4.4	13.80	54.00
2602.750000	52.03	---	200.0	V	346.0	-4.1	21.97	74.00
2914.000000	54.08	---	200.0	V	357.0	-3.0	19.92	74.00
2982.000000	---	42.54	100.0	V	22.0	-2.7	11.46	54.00

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

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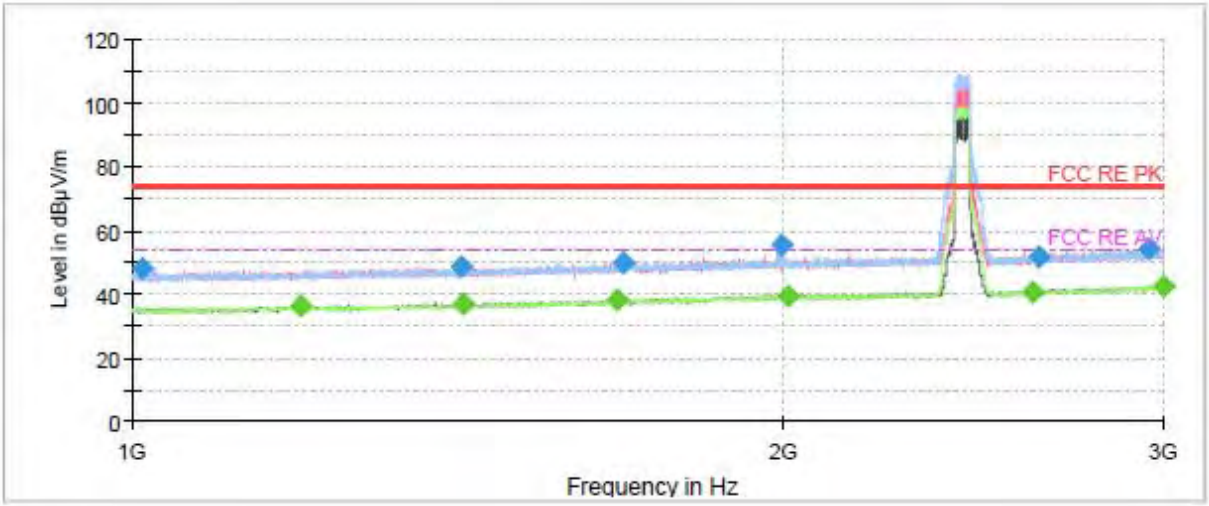
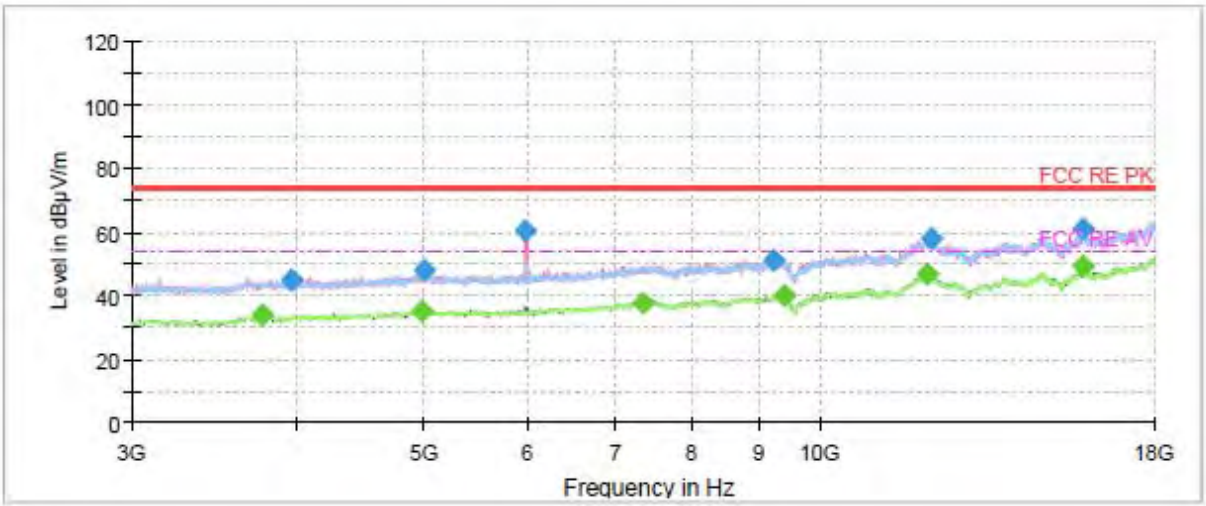
802.11ax (HE40) CH3



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1011.000000	47.77	---	200.0	H	66.0	-10.7	26.23	74.00
1198.000000	---	36.09	200.0	H	280.0	-10.2	17.91	54.00
1419.000000	48.50	---	100.0	V	99.0	-8.8	25.50	74.00
1424.500000	---	36.74	100.0	V	287.0	-8.8	17.26	54.00
1676.000000	---	38.28	100.0	H	130.0	-7.3	15.72	54.00
1687.750000	49.64	---	100.0	H	130.0	-7.2	24.36	74.00
1995.750000	55.15	---	200.0	V	351.0	-5.6	18.85	74.00
2011.500000	---	39.62	100.0	H	296.0	-5.5	14.38	54.00
2611.250000	---	40.72	200.0	H	98.0	-4.1	13.28	54.00
2625.500000	51.71	---	200.0	H	312.0	-4.0	22.29	74.00
2952.250000	54.18	---	200.0	H	241.0	-2.8	19.82	74.00
2999.000000	---	42.56	100.0	V	17.0	-2.7	11.44	54.00

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

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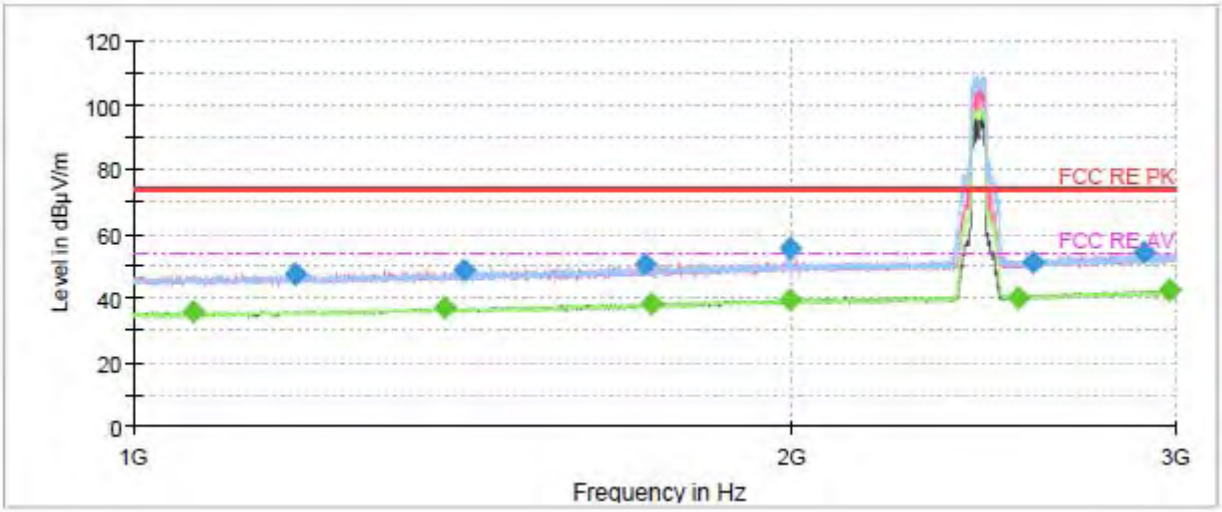
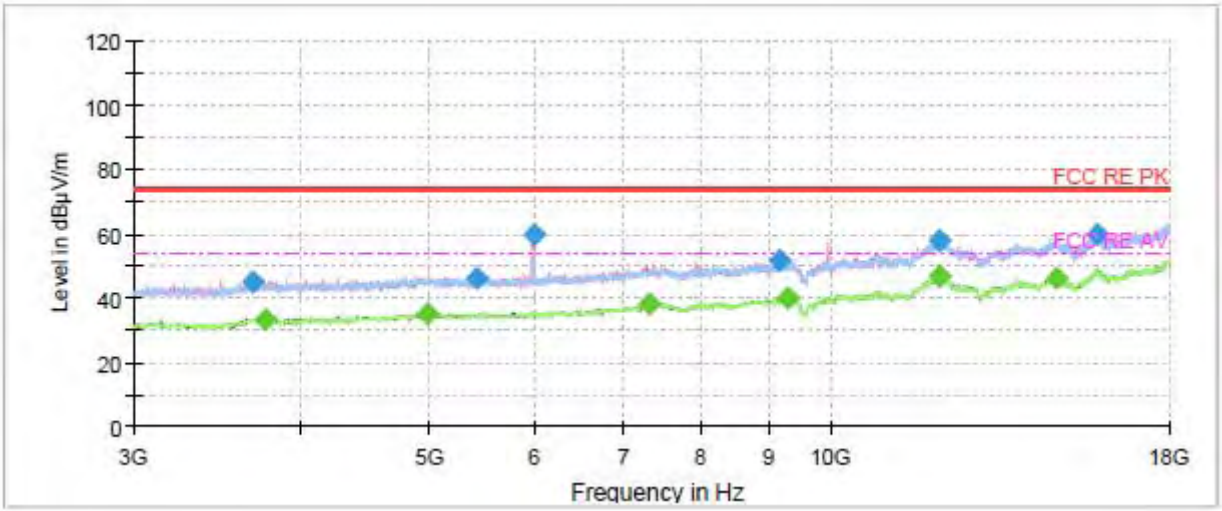
802.11ax (HE40) CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1065.750000	---	35.74	100.0	V	56.0	-10.7	18.26	54.00
1185.750000	47.52	---	100.0	H	72.0	-10.2	26.48	74.00
1387.000000	---	36.90	100.0	H	181.0	-9.0	17.10	54.00
1416.000000	48.76	---	200.0	H	36.0	-8.8	25.24	74.00
1713.500000	50.49	---	100.0	V	16.0	-7.1	23.51	74.00
1726.250000	---	38.33	200.0	V	332.0	-7.0	15.67	54.00
1998.250000	---	39.57	100.0	V	116.0	-5.6	14.43	54.00
1999.750000	55.56	---	200.0	V	112.0	-5.6	18.44	74.00
2540.750000	---	39.80	100.0	V	8.0	-4.4	14.20	54.00
2582.750000	50.81	---	100.0	V	155.0	-4.2	23.19	74.00
2900.500000	54.11	---	100.0	V	64.0	-3.0	19.89	74.00
2980.000000	---	42.37	200.0	H	107.0	-2.7	11.63	54.00

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

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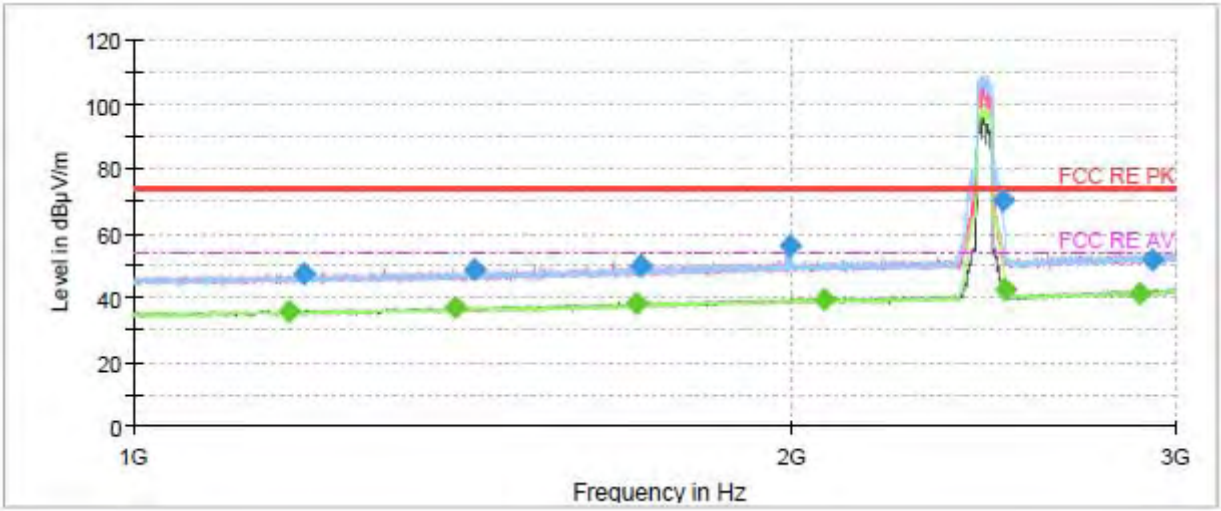
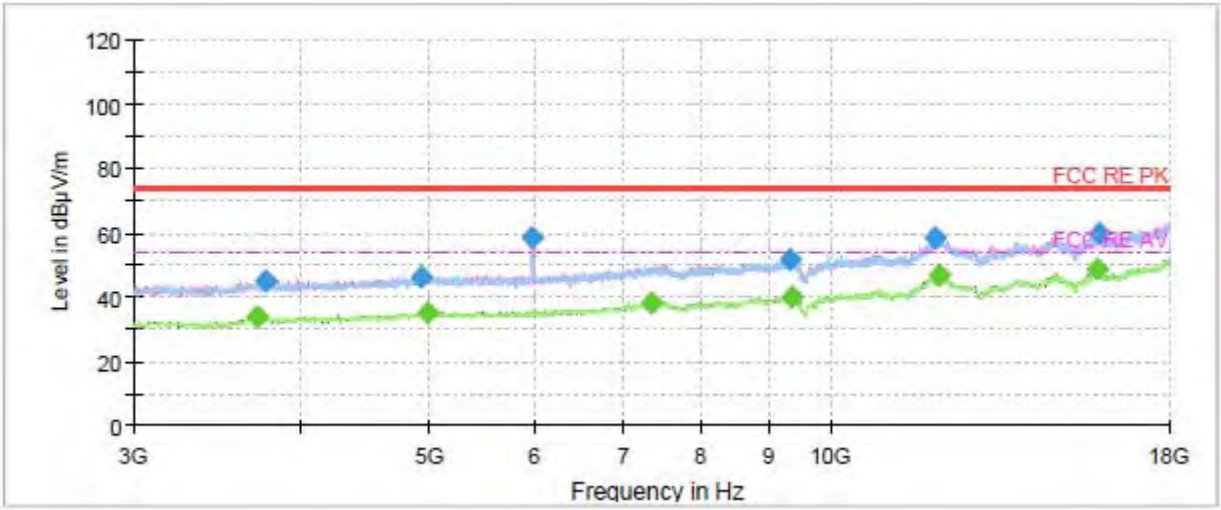
802.11ax (HE40) CH9



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1179.500000	---	35.66	100.0	V	290.0	-10.3	18.34	54.00
1196.250000	47.25	---	200.0	H	181.0	-10.2	26.75	74.00
1403.000000	---	36.80	200.0	H	61.0	-8.8	17.20	54.00
1433.500000	48.32	---	100.0	H	359.0	-8.7	25.68	74.00
1698.500000	---	38.21	100.0	V	242.0	-7.2	15.79	54.00
1706.750000	49.74	---	100.0	H	264.0	-7.1	24.26	74.00
1995.500000	56.02	---	100.0	V	114.0	-5.6	17.98	74.00
2069.500000	---	39.55	100.0	V	149.0	-5.5	14.45	54.00
2500.500000	70.10	---	200.0	H	0.0	-4.5	3.90	74.00
2507.000000	---	42.38	200.0	H	354.0	-4.4	11.62	54.00
2887.000000	---	41.04	100.0	V	44.0	-3.1	12.96	54.00
2923.750000	51.79	---	100.0	V	51.0	-3.0	22.21	74.00

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

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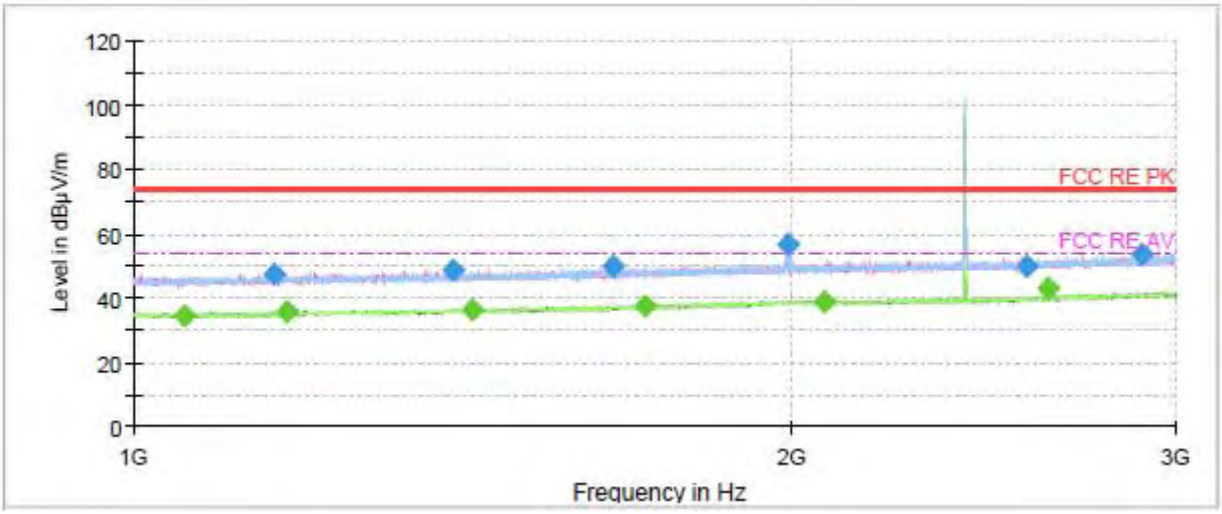
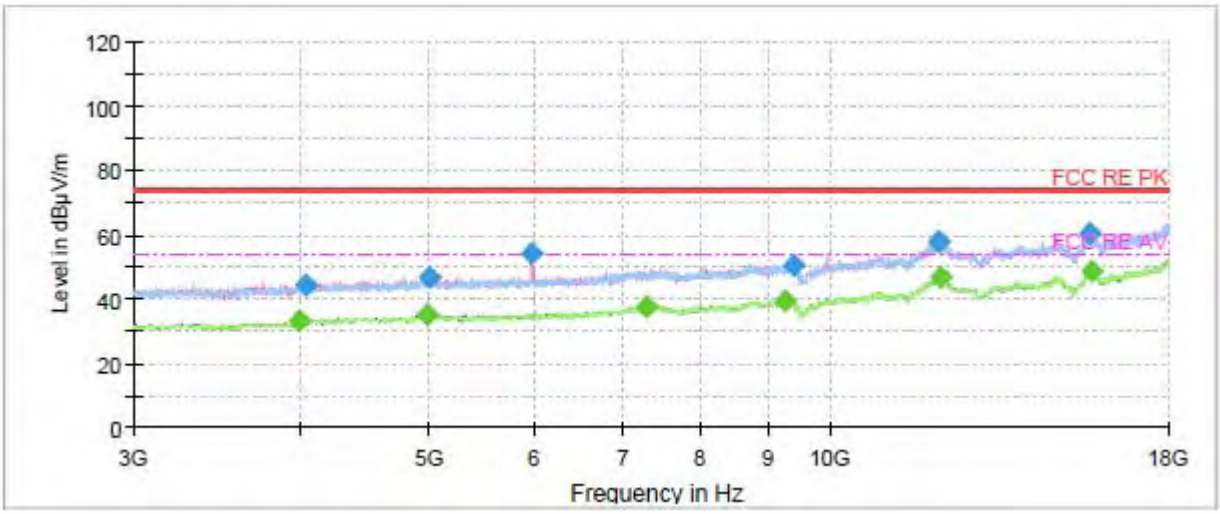
Bluetooth LE(1M)-Channel 0



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1054.250000	---	34.53	200.0	V	310.0	-10.8	19.47	54.00
1158.750000	47.28	---	100.0	V	31.0	-10.4	26.72	74.00
1175.250000	---	35.66	100.0	H	153.0	-10.3	18.34	54.00
1401.250000	48.82	---	200.0	H	123.0	-8.9	25.18	74.00
1428.500000	---	36.44	200.0	H	13.0	-8.7	17.56	54.00
1657.500000	49.55	---	200.0	H	40.0	-7.4	24.45	74.00
1714.000000	---	37.65	100.0	V	108.0	-7.1	16.35	54.00
1991.500000	56.74	---	200.0	H	291.0	-5.7	17.26	74.00
2069.250000	---	39.05	100.0	V	73.0	-5.5	14.95	54.00
2561.750000	50.06	---	200.0	V	168.0	-4.4	23.94	74.00
2621.250000	---	43.12	200.0	V	88.0	-4.0	10.88	54.00
2896.250000	53.62	---	200.0	H	139.0	-3.0	20.38	74.00

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

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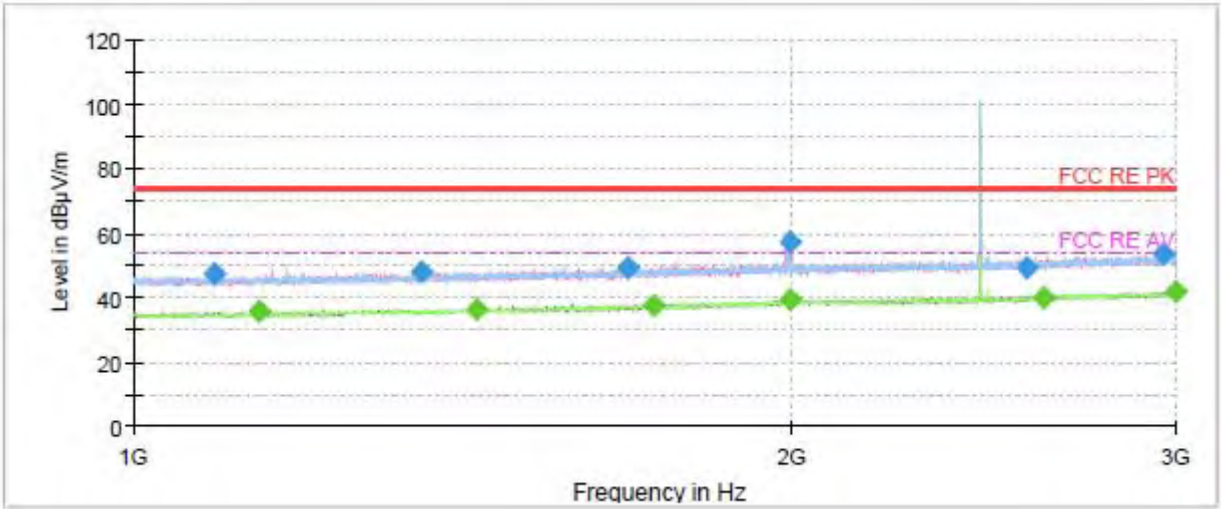
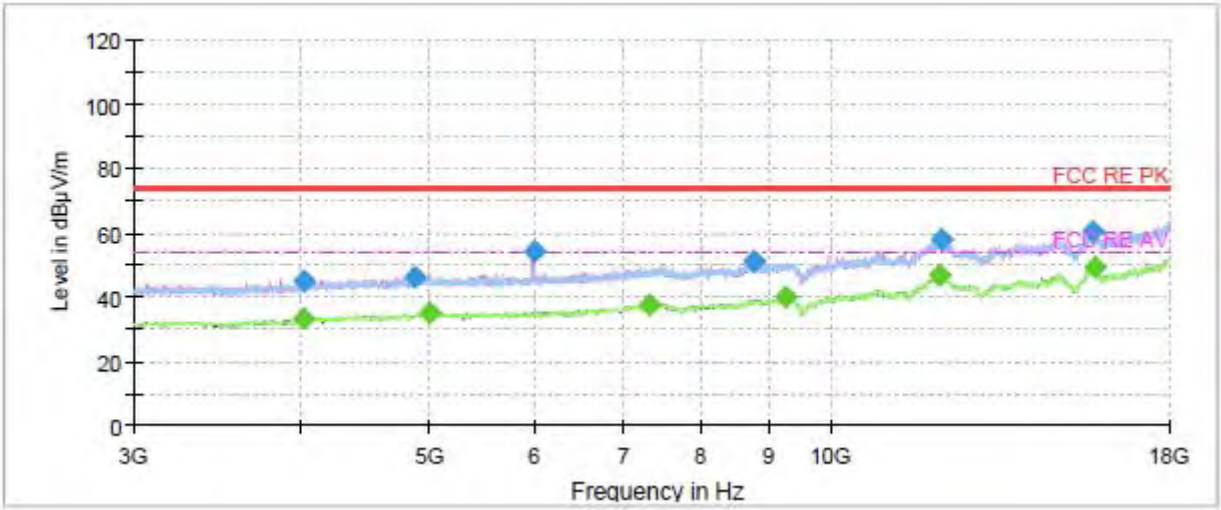
Bluetooth LE(1M)-Channel 19



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1089.500000	47.22	---	200.0	H	16.0	-10.7	26.78	74.00
1140.500000	---	35.42	200.0	V	121.0	-10.5	18.58	54.00
1353.000000	47.83	---	200.0	H	152.0	-9.2	26.17	74.00
1434.250000	---	36.23	100.0	H	233.0	-8.7	17.77	54.00
1684.750000	49.41	---	200.0	V	121.0	-7.2	24.59	74.00
1731.250000	---	37.50	200.0	H	93.0	-7.0	16.50	54.00
1996.750000	57.09	---	200.0	V	105.0	-5.6	16.91	74.00
1996.750000	---	39.47	200.0	V	105.0	-5.6	14.53	54.00
2565.250000	49.36	---	100.0	V	220.0	-4.4	24.64	74.00
2610.250000	---	39.76	100.0	V	30.0	-4.1	14.24	54.00
2960.000000	53.75	---	200.0	V	278.0	-2.8	20.25	74.00
2998.500000	---	41.71	100.0	V	299.0	-2.7	12.29	54.00

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

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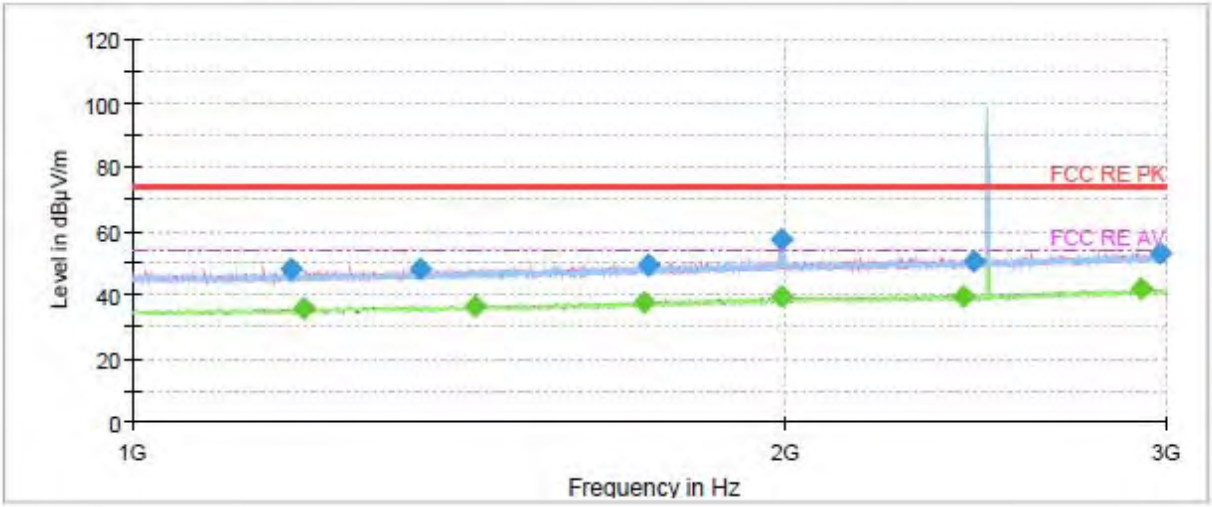
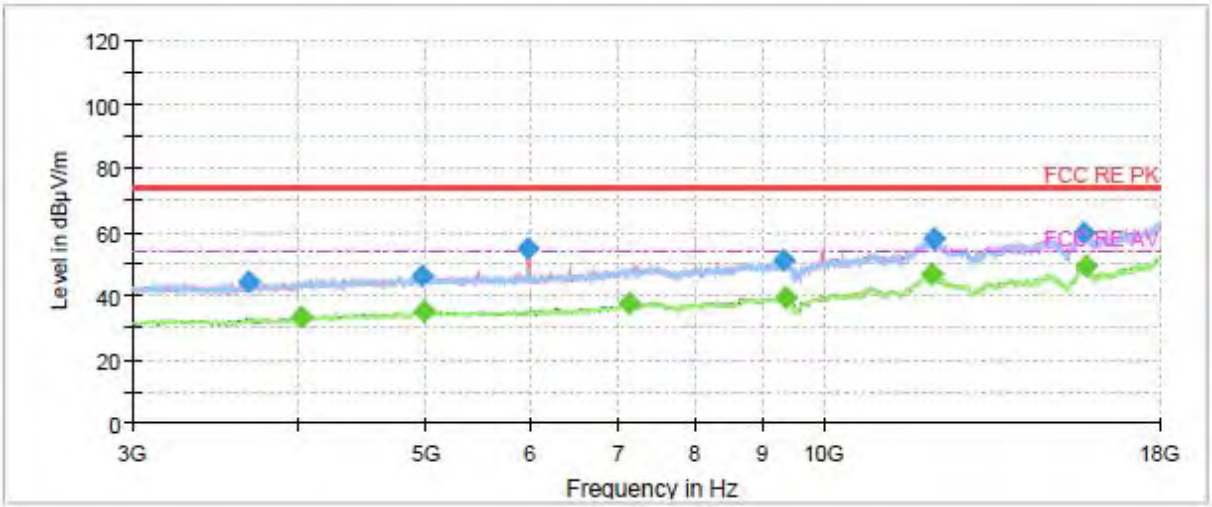
Bluetooth LE(1M)-Channel 39



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1182.250000	47.83	---	200.0	H	133.0	-10.3	26.17	74.00
1199.250000	---	35.45	200.0	V	190.0	-10.2	18.55	54.00
1358.250000	48.13	---	200.0	H	133.0	-9.1	25.87	74.00
1439.500000	---	36.30	100.0	H	220.0	-8.7	17.70	54.00
1724.000000	---	37.74	100.0	H	78.0	-7.0	16.26	54.00
1730.500000	49.40	---	200.0	V	277.0	-7.0	24.60	74.00
1992.000000	57.06	---	200.0	V	0.0	-5.7	16.94	74.00
1993.750000	---	39.13	200.0	V	281.0	-5.6	14.87	54.00
2415.750000	---	39.37	200.0	H	16.0	-4.7	14.63	54.00
2443.250000	50.19	---	100.0	V	0.0	-4.6	23.81	74.00
2922.500000	---	41.59	200.0	V	296.0	-3.0	12.41	54.00
2977.000000	53.13	---	100.0	V	0.0	-2.7	20.87	74.00

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

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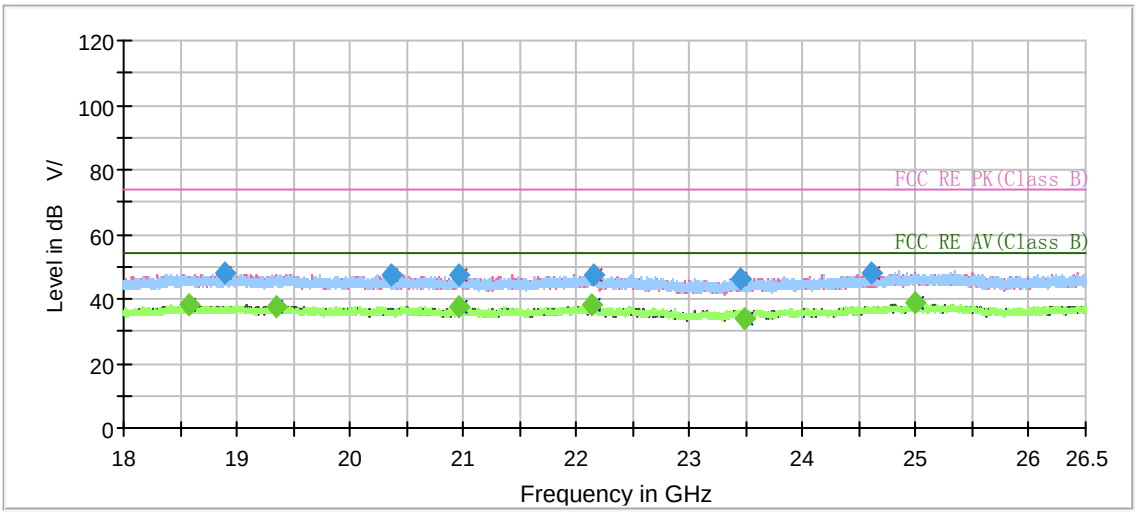
During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, 802.11n (HT40) CH6 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz

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5.7. Conducted Emission

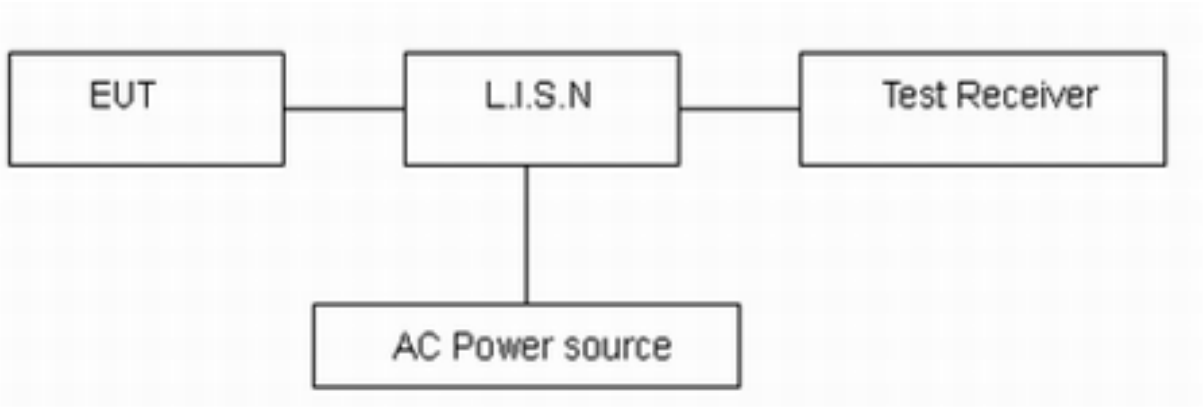
Ambient condition

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. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, 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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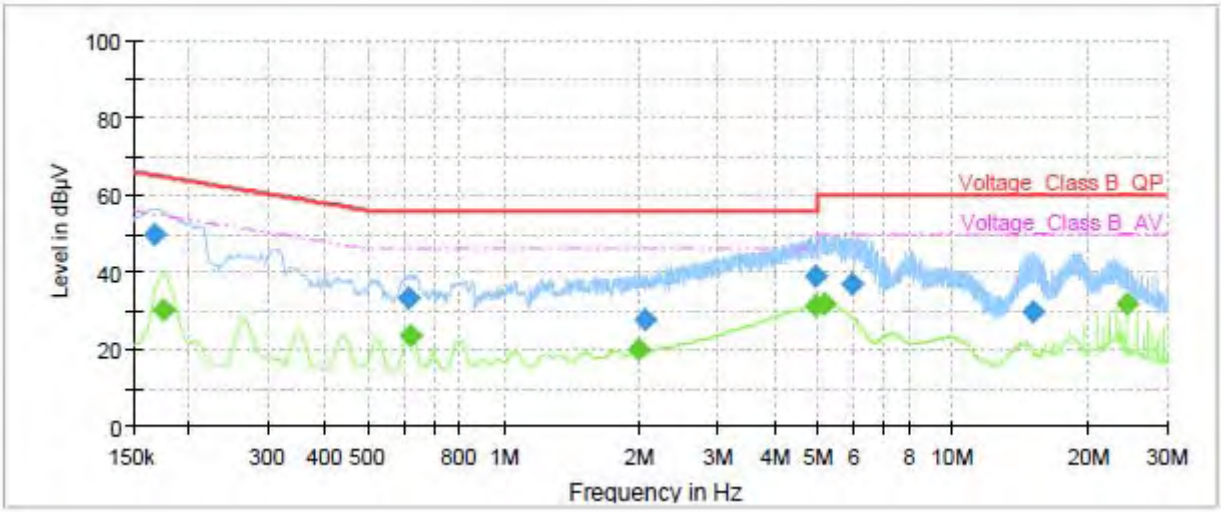
Test Results:

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 (WIFI 2.4G /Bluetooth LE) with all channels, 802.11n (HT40) CH6 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.17	49.69	---	65.06	15.37	70.0	9.000	L1	ON	21
0.17	---	30.46	54.73	24.27	70.0	9.000	L1	ON	21
0.61	33.33	---	56.00	22.67	70.0	9.000	L1	ON	20
0.62	---	23.84	46.00	22.16	70.0	9.000	L1	ON	20
2.01	---	20.03	46.00	25.97	70.0	9.000	L1	ON	20
2.07	27.48	---	56.00	28.52	70.0	9.000	L1	ON	20
4.92	---	31.18	46.00	14.82	70.0	9.000	L1	ON	19
4.93	38.80	---	56.00	17.20	70.0	9.000	L1	ON	19
5.17	---	31.89	50.00	18.11	70.0	9.000	L1	ON	19
5.98	36.97	---	60.00	23.03	70.0	9.000	L1	ON	19
15.00	29.74	---	60.00	30.26	70.0	9.000	L1	ON	20
24.39	---	31.90	50.00	18.10	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz

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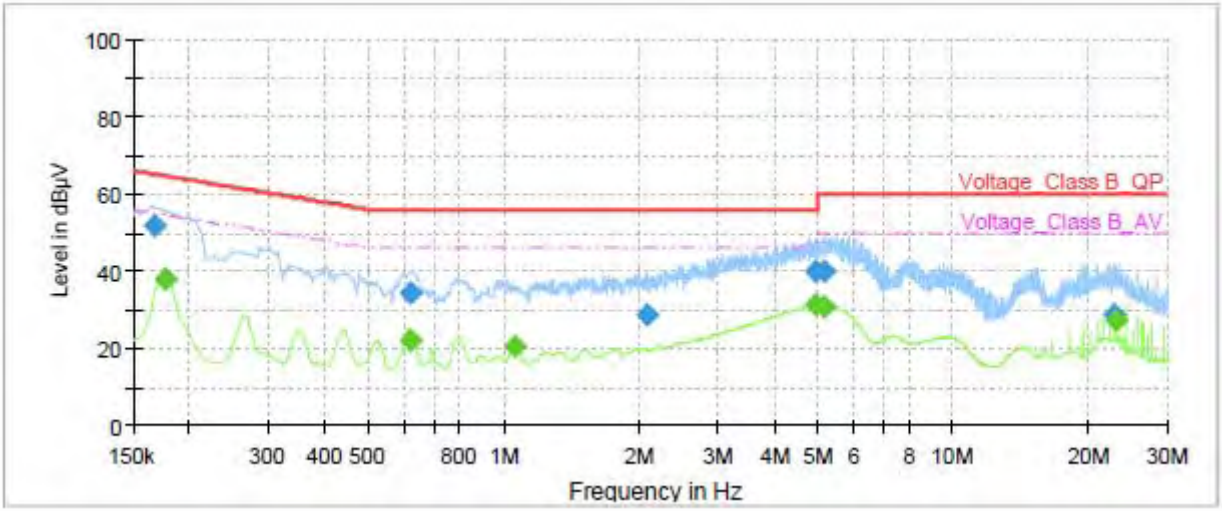

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.17	51.54	---	65.06	13.52	70.0	9.000	N	ON	21
0.18	---	38.18	54.63	16.45	70.0	9.000	N	ON	21
0.62	---	22.05	46.00	23.95	70.0	9.000	N	ON	20
0.62	34.14	---	56.00	21.86	70.0	9.000	N	ON	20
1.06	---	20.58	46.00	25.42	70.0	9.000	N	ON	20
2.08	28.52	---	56.00	27.48	70.0	9.000	N	ON	20
4.93	---	31.44	46.00	14.56	70.0	9.000	N	ON	19
4.97	40.17	---	56.00	15.83	70.0	9.000	N	ON	19
5.14	---	30.99	50.00	19.01	70.0	9.000	N	ON	19
5.17	40.22	---	60.00	19.78	70.0	9.000	N	ON	19
22.81	28.77	---	60.00	31.23	70.0	9.000	N	ON	20
22.97	---	27.18	50.00	22.82	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz

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6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV30	100815	2020-12-13	2021-12-12
EMI Test Receiver	R&S	ESCI	100948	2021-05-15	2022-05-14
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2019-12-16	2022-12-15
Horn Antenna	R&S	HF907	102723	2018-08-11	2021-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102643	2018-06-20	2023-06-19
EMI Test Receiver	R&S	ESR	101667	2021-05-16	2022-05-15
LISN	R&S	ENV216	101171	2018-12-15	2021-12-14
Spectrum Analyzer	Agilent	N9010A	MY47191109	2021-05-15	2022-05-14
Spectrum Analyzer	R&S	FSV40	101298	2021-05-15	2022-05-14
Power Sensor	R&S	NRP18S	101955	2021-05-15	2022-05-14
Software	R&S	EMC32	9.26.0	/	/

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

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ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

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ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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