

ANNEX A: Test Result

The radiated emission was measured in the following position: EUT lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is coplanar, the others are vertical and horizontal. and the worst case was recorded.

1. Unwanted Emission

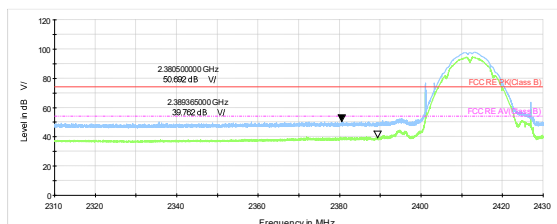
1.1. Wi-Fi 2.4GHz

The following graphs display the maximum values of horizontal and vertical by software. Blue trace uses the peak detection, Green trace uses the average detection.

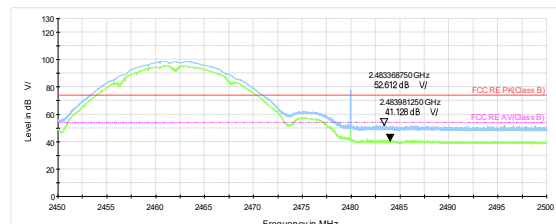
A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz, therefore investigated worst case to representative mode in test report.

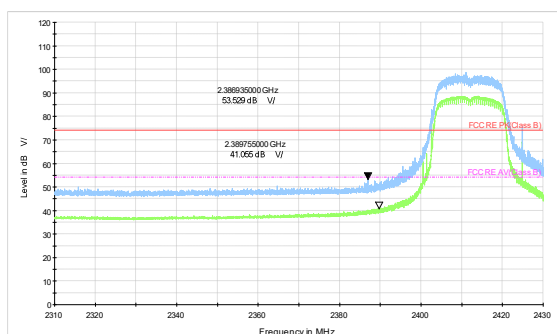
The signal beyond the limit is carrier.



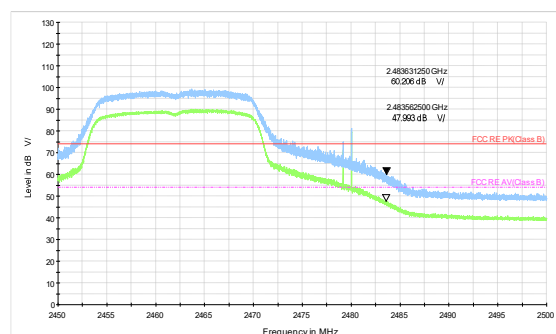
802.11b-Channel 1 Peak+ Average



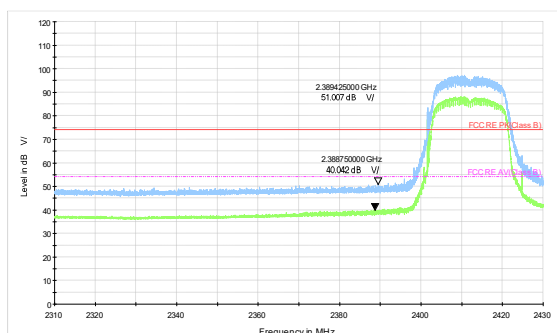
802.11b-Channel 11 Peak+ Average



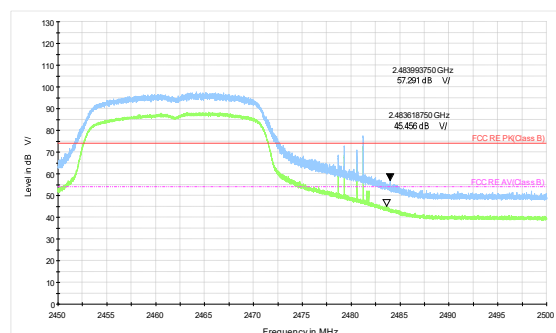
802.11g-Channel 1 Peak+ Average



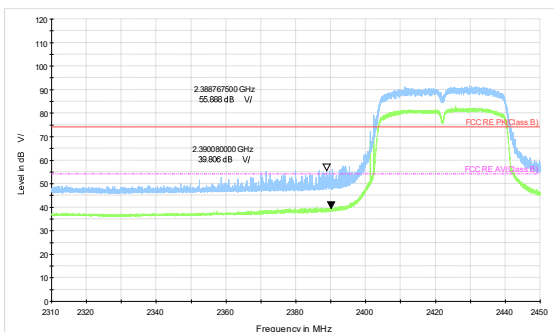
802.11g-Channel 11 Peak+ Average



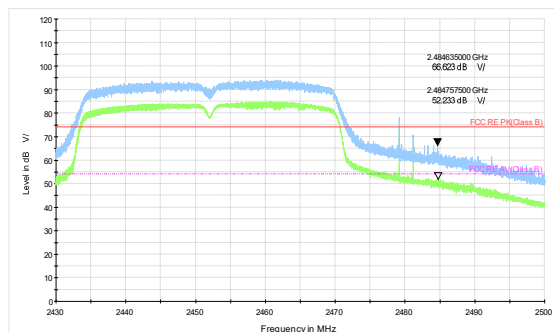
802.11n HT20-Channel 1 Peak+ Average



802.11n HT20-Channel 11 Peak+ Average



802.11n HT40-Channel 3 Peak+ Average



802.11n HT40-Channel 9 Peak+ Average

Result of RE

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier.
The Radiates Emission from 18GHz to 26.5GHz are more than 20dB below the limit are not reported.

Remark:

1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit – Quasi-Peak/ MAX Peak/ Average**
3. **A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means (dB $\mu\text{V/m}$)**
4. **The following graphs display the maximum values of coaxial and coplanar for 9k-30MHz; horizontal and vertical for above 30MHz by software.**
5. **For below 1GHz**

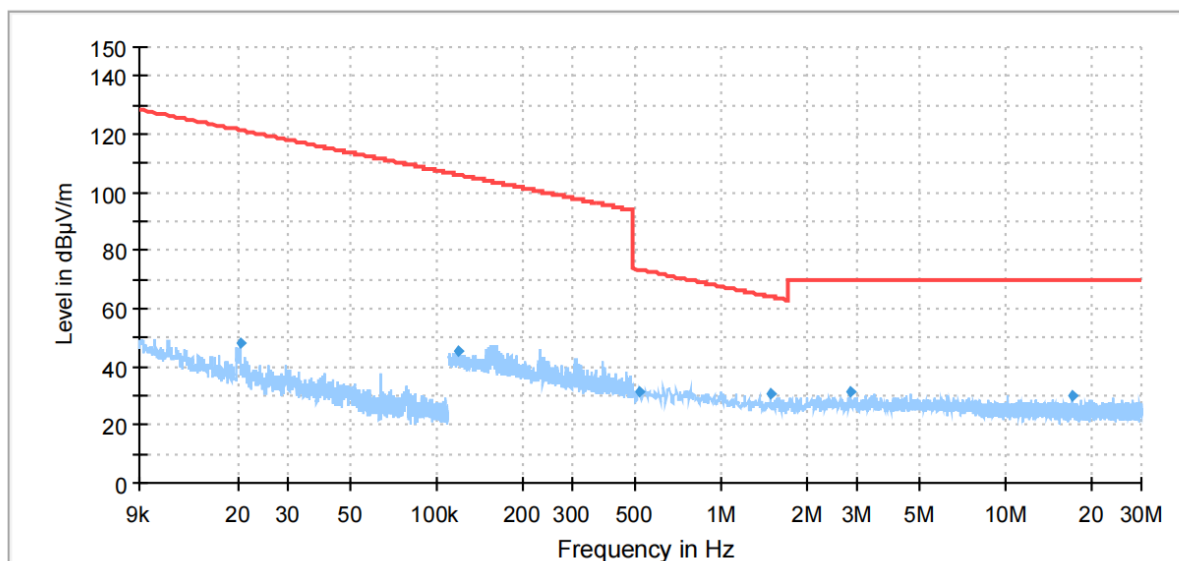
 QP Level @Spectrum Overview H
  QP Level @Spectrum Overview V
  QP Level @Final Results
  QP Limit

For above 1GHz

 PK Level @Spectrum Overview H
  PK Level @Spectrum Overview V
  PK Level @Final Results
  PK Limit
 AVG Level @Spectrum Overview H
  AVG Level @Spectrum Overview V
  AVG Level @Final Results
  AVG Limit

Continuous TX mode:

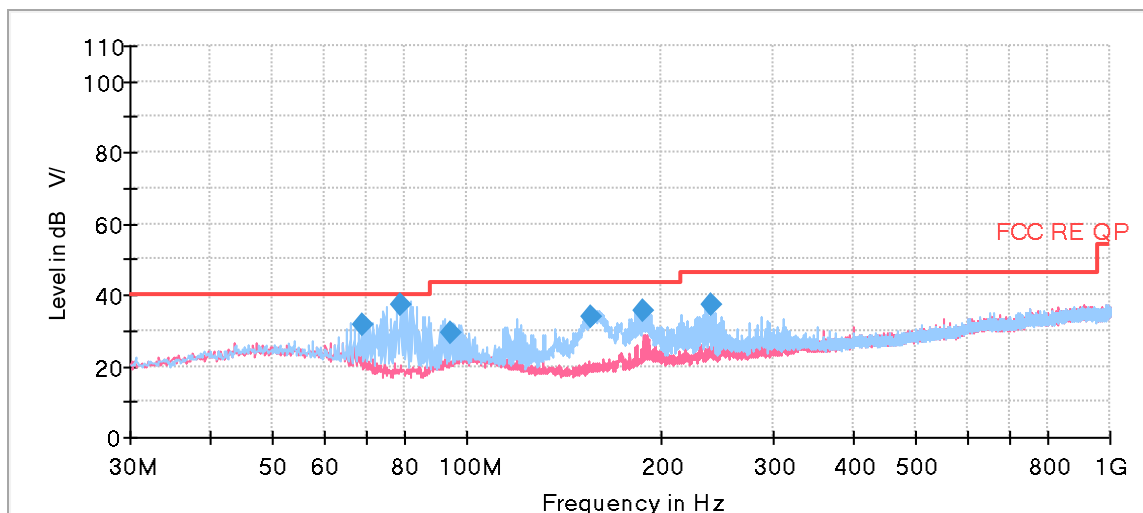
During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels, the test data of the worst-case condition (**802.11b CH11**) was recorded in this report.



Radiates Emission from 9kHz to 30MHz

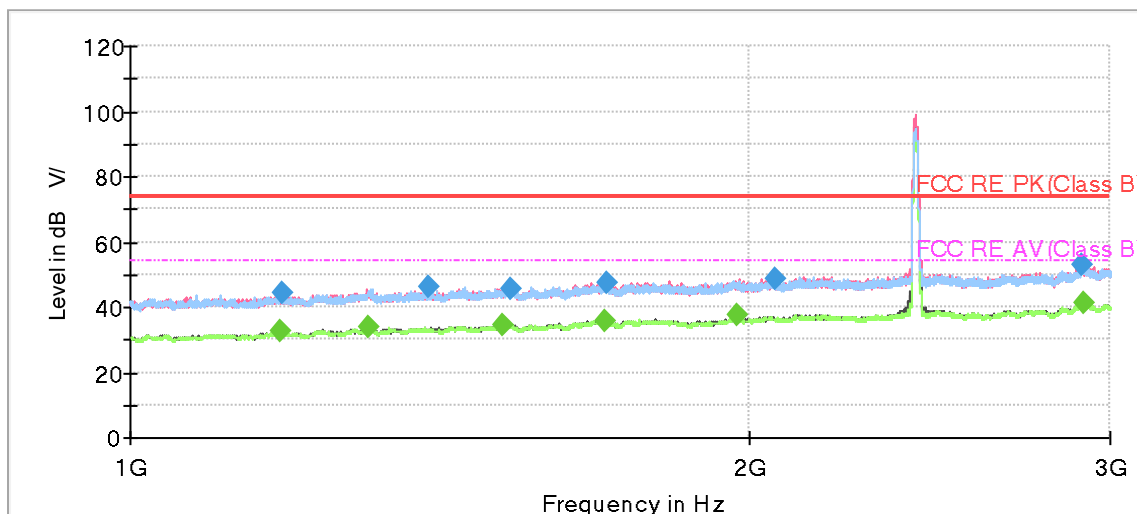
Final Result

Frequency (MHz)	MaxPeak (dB $\mu\text{V/m}$)	Limit (dB $\mu\text{V/m}$)	Margin (dB)	Meas. Time (ms)	Azimuth (deg)	Corr. (dB/m)
0.02	47.86	121.44	73.58	500.00	322.00	17
0.12	45.22	106.07	60.85	150.00	325.00	17
0.52	31.68	73.29	41.61	150.00	263.00	17
1.50	30.82	64.07	33.25	150.00	357.00	17
2.84	31.54	69.50	37.96	150.00	51.00	17
17.05	29.80	69.50	39.70	150.00	11.00	17



Radiates Emission from 30MHz to 1GHz

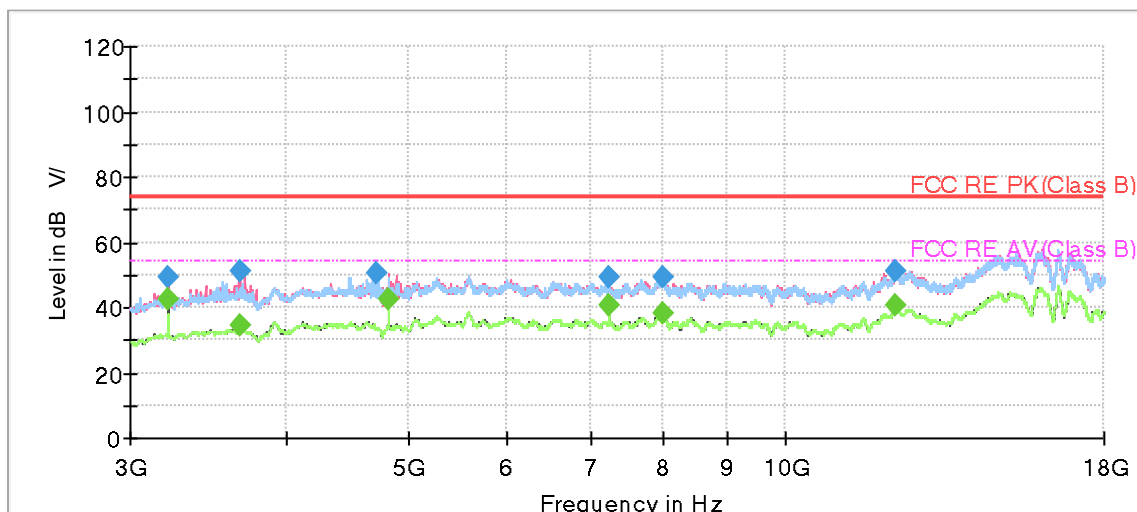
Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
68.760000	31.31	40.00	8.69	225.0	H	99.0	17.0
78.903750	37.42	40.00	2.58	225.0	H	9.0	15.5
94.626250	29.56	43.50	13.94	200.0	H	0.0	18.5
156.463750	33.63	43.50	9.87	125.0	H	88.0	15.9
187.827500	35.40	43.50	8.10	100.0	H	303.0	18.2
239.998750	37.04	46.00	8.96	100.0	H	71.0	20.1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

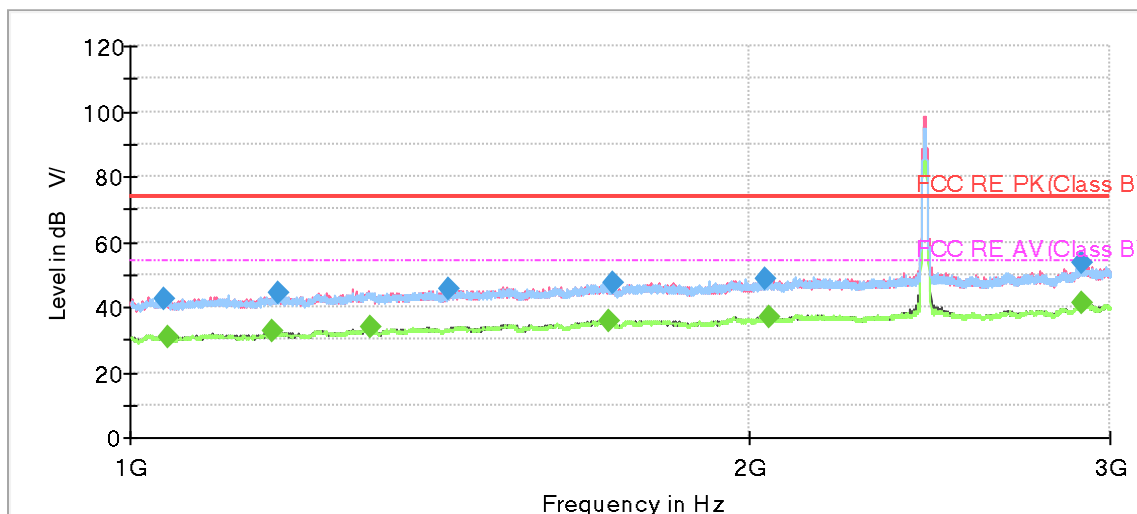
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1184.000000	---	32.55	54.00	21.45	500.0	100.0	H	330.0	-3.9
1185.500000	44.31	---	74.00	29.69	500.0	100.0	H	278.0	-3.9
1307.000000	---	33.91	54.00	20.09	500.0	200.0	V	189.0	-2.1
1397.250000	45.92	---	74.00	28.08	500.0	200.0	H	307.0	-2.3
1517.250000	---	34.24	54.00	19.76	500.0	100.0	V	174.0	-1.1
1531.750000	45.83	---	74.00	28.17	500.0	100.0	H	263.0	-1.0
1704.750000	---	35.86	54.00	18.14	500.0	200.0	V	182.0	0.4
1708.000000	47.22	---	74.00	26.78	500.0	200.0	H	345.0	0.5
1976.750000	---	37.28	54.00	16.72	500.0	200.0	H	56.0	2.0
2061.500000	48.54	---	74.00	25.46	500.0	100.0	H	141.0	2.2
2906.000000	53.05	---	74.00	20.95	500.0	200.0	H	80.0	8.5
2916.000000	---	41.23	54.00	12.77	500.0	100.0	H	103.0	8.3



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3215.625000	---	42.74	54.00	11.27	500.0	200.0	V	160.0	-1.0
3215.625000	49.02	---	74.00	24.98	500.0	200.0	V	160.0	-1.0
3669.375000	---	34.55	54.00	19.45	500.0	200.0	H	230.0	1.6
3669.375000	50.85	---	74.00	23.15	500.0	200.0	V	219.0	1.6
4719.375000	50.60	---	74.00	23.40	500.0	200.0	H	250.0	3.3
4822.500000	---	42.76	54.00	11.24	500.0	200.0	V	120.0	2.7
7235.625000	---	40.86	54.00	13.14	500.0	200.0	V	120.0	7.0
7237.500000	49.10	---	74.00	24.90	500.0	200.0	V	72.0	7.0
7996.875000	---	38.23	54.00	15.77	500.0	100.0	V	92.0	9.9
8006.250000	49.22	---	74.00	24.78	500.0	200.0	V	226.0	9.7
12273.750000	---	40.75	54.00	13.25	500.0	100.0	H	106.0	14.6
12281.250000	51.38	---	74.00	22.62	500.0	200.0	V	99.0	14.5

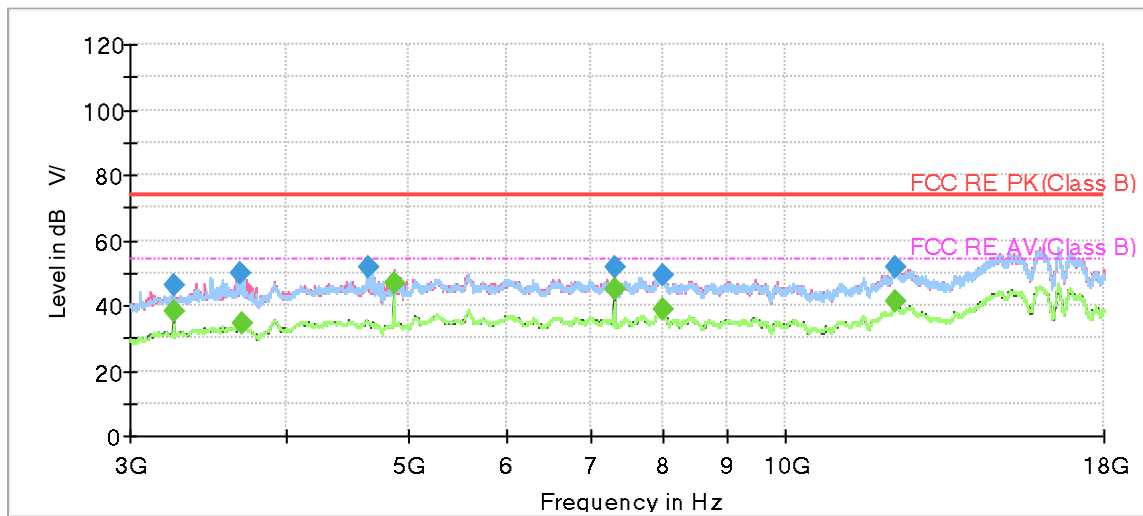
802.11b CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

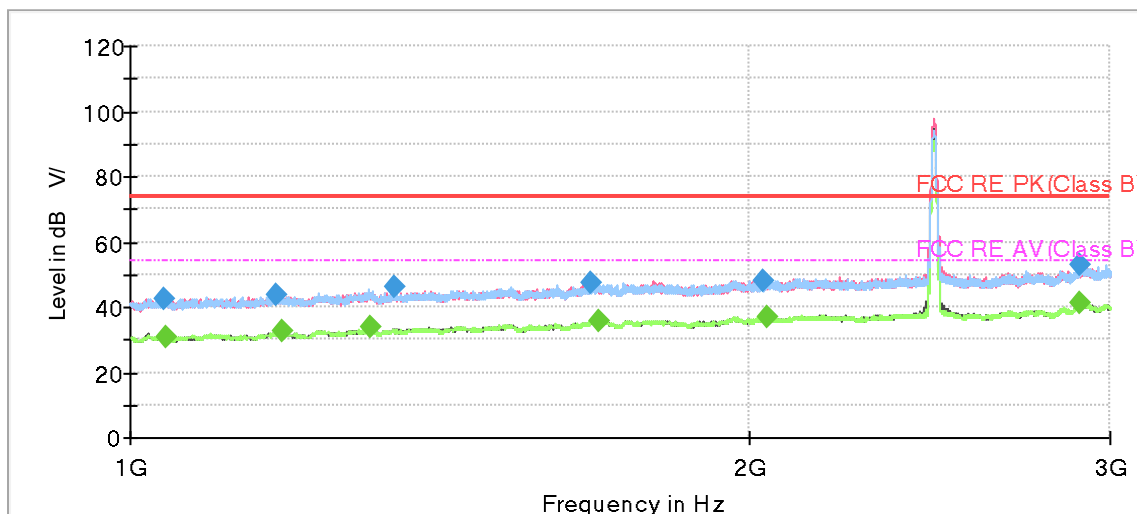
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1038.000000	42.40	---	74.00	31.60	500.0	100.0	V	341.0	-5.6
1044.500000	---	31.01	54.00	22.99	500.0	100.0	H	5.0	-5.8
1174.250000	---	32.31	54.00	21.69	500.0	100.0	V	250.0	-4.2
1180.500000	44.05	---	74.00	29.95	500.0	100.0	H	0.0	-4.0
1308.250000	---	33.86	54.00	20.14	500.0	100.0	H	212.0	-2.0
1429.500000	45.35	---	74.00	28.65	500.0	100.0	V	356.0	-2.0
1709.750000	---	35.70	54.00	18.30	500.0	100.0	V	326.0	0.5
1718.750000	47.19	---	74.00	26.81	500.0	100.0	V	273.0	0.0
2038.500000	48.57	---	74.00	25.43	500.0	200.0	H	341.0	2.4
2046.500000	---	37.23	54.00	16.77	500.0	200.0	V	2.0	2.6
2905.500000	---	41.12	54.00	12.88	500.0	100.0	V	0.0	8.5
2906.000000	53.75	---	74.00	20.25	500.0	100.0	H	127.0	8.5



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3247.500000	---	38.00	54.00	16.00	500.0	200.0	V	161.0	-1.3
3247.500000	46.40	---	74.00	27.60	500.0	200.0	V	161.0	-1.3
3669.375000	49.60	---	74.00	24.40	500.0	200.0	V	44.0	1.6
3686.250000	---	34.21	54.00	19.79	500.0	200.0	H	239.0	1.8
4657.500000	51.85	---	74.00	22.15	500.0	200.0	H	253.0	3.4
4873.125000	---	46.53	54.00	7.47	500.0	200.0	V	113.0	3.1
7308.750000	51.40	---	74.00	22.60	500.0	200.0	V	113.0	6.1
7308.750000	---	45.22	54.00	8.78	500.0	200.0	V	113.0	6.1
7985.625000	49.08	---	74.00	24.92	500.0	200.0	H	150.0	9.9
7998.750000	---	38.53	54.00	15.47	500.0	100.0	V	66.0	9.9
12262.500000	51.88	---	74.00	22.12	500.0	100.0	H	254.0	14.4
12273.750000	---	41.16	54.00	12.84	500.0	100.0	V	94.0	14.6

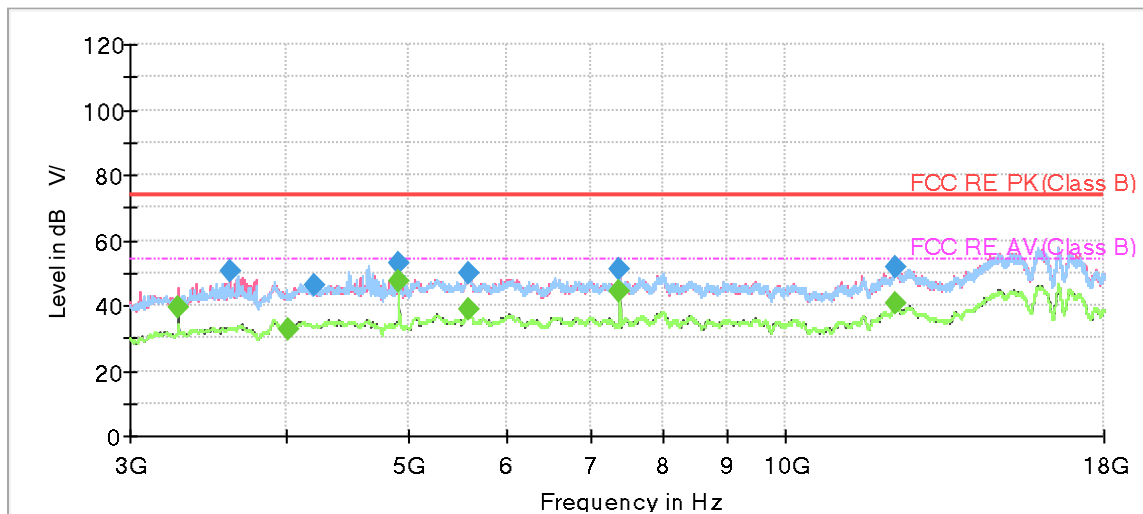
802.11b CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

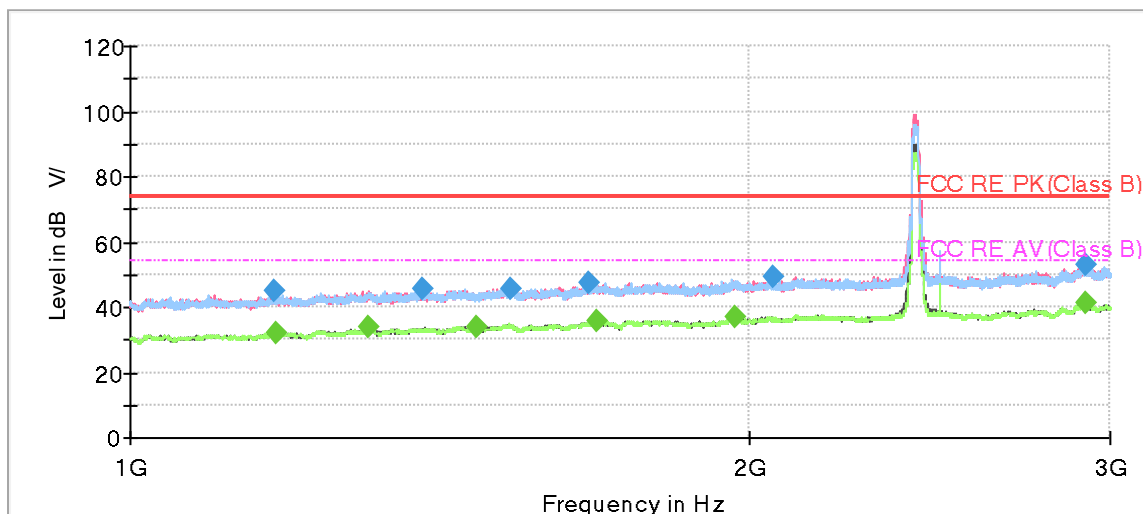
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1038.000000	42.40	---	74.00	31.60	500.0	200.0	H	319.0	-5.6
1041.500000	---	31.08	54.00	22.92	500.0	100.0	V	7.0	-5.6
1178.000000	43.48	---	74.00	30.52	500.0	100.0	H	310.0	-4.1
1185.250000	---	32.35	54.00	21.65	500.0	200.0	V	350.0	-3.9
1308.000000	---	33.75	54.00	20.25	500.0	200.0	H	97.0	-2.0
1344.250000	46.19	---	74.00	27.81	500.0	100.0	H	0.0	-2.7
1677.500000	47.34	---	74.00	26.66	500.0	100.0	H	0.0	0.4
1692.250000	---	35.65	54.00	18.35	500.0	200.0	H	265.0	0.3
2034.500000	48.21	---	74.00	25.79	500.0	100.0	H	0.0	2.3
2041.500000	---	36.92	54.00	17.08	500.0	100.0	V	113.0	2.5
2899.000000	53.00	---	74.00	21.00	500.0	100.0	V	7.0	8.5
2903.000000	---	41.11	54.00	12.89	500.0	200.0	H	59.0	8.5



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3281.250000	---	39.40	54.00	14.60	500.0	200.0	V	165.0	-1.0
3601.875000	50.19	---	74.00	23.81	500.0	100.0	V	0.0	1.0
4020.000000	---	32.75	54.00	21.25	500.0	200.0	V	137.0	1.2
4205.625000	45.98	---	74.00	28.02	500.0	200.0	V	0.0	2.2
4923.750000	53.05	---	74.00	20.95	500.0	200.0	V	117.0	3.0
4923.750000	---	47.11	54.00	6.89	500.0	200.0	V	117.0	3.0
5591.250000	---	38.68	54.00	15.32	500.0	200.0	V	1.0	8.1
5593.125000	49.80	---	74.00	24.20	500.0	100.0	V	348.0	8.1
7383.750000	---	44.42	54.00	9.58	500.0	100.0	V	58.0	5.9
7387.500000	51.21	---	74.00	22.79	500.0	100.0	V	58.0	5.9
12273.750000	---	40.76	54.00	13.24	500.0	200.0	H	228.0	14.6
12277.500000	51.90	---	74.00	22.10	500.0	100.0	H	85.0	14.6

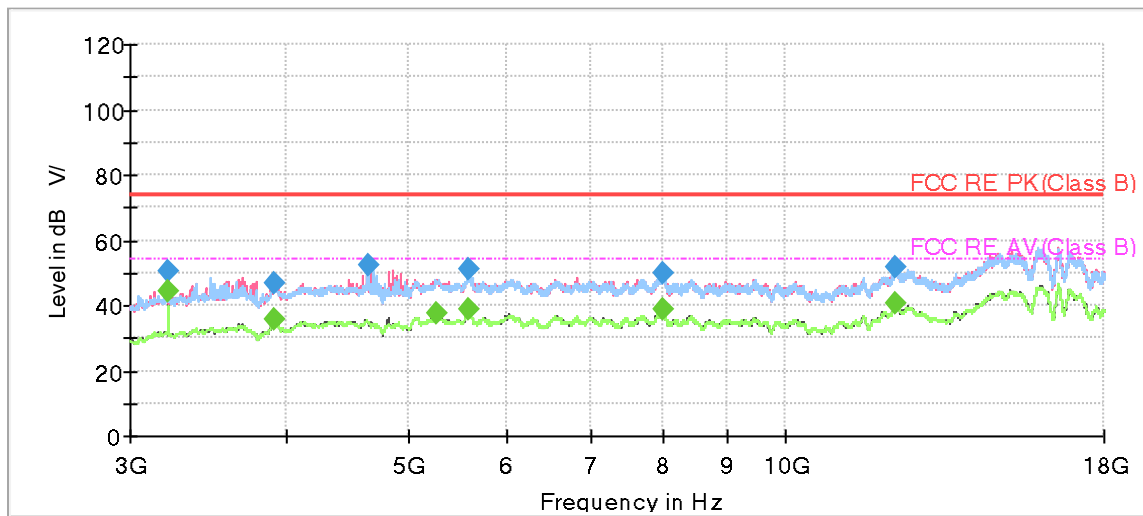
802.11g CH1



Note: The signal beyond the limit is carrier.

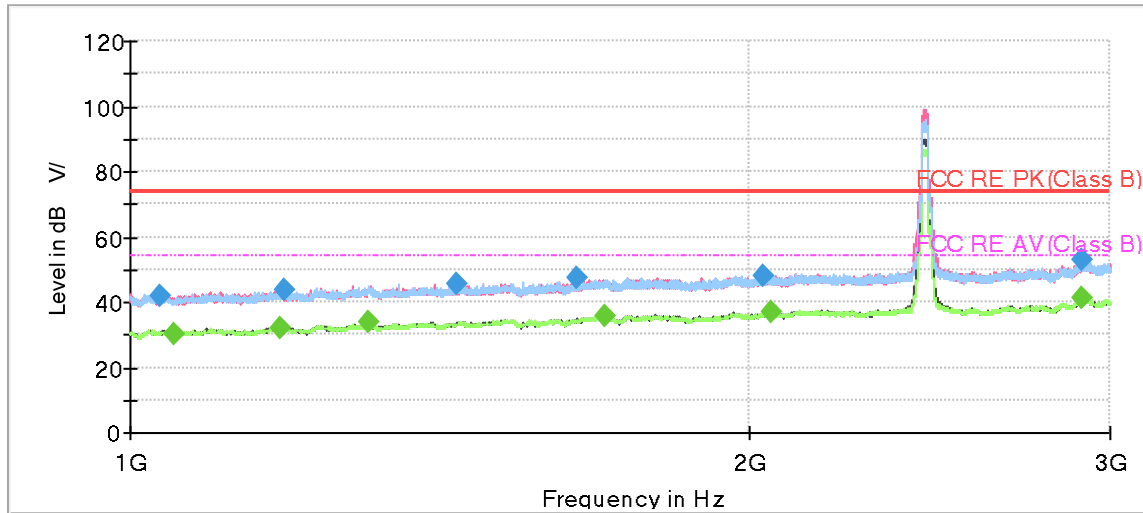
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1176.750000	44.75	---	74.00	29.25	500.0	200.0	H	58.0	-4.2
1177.500000	---	32.25	54.00	21.75	500.0	100.0	V	239.0	-4.1
1307.500000	---	33.78	54.00	20.22	500.0	100.0	V	262.0	-2.1
1388.500000	45.40	---	74.00	28.60	500.0	100.0	V	280.0	-2.4
1474.500000	---	33.58	54.00	20.42	500.0	100.0	V	172.0	-2.2
1533.500000	45.34	---	74.00	28.66	500.0	100.0	V	239.0	-1.0
1674.250000	47.42	---	74.00	26.58	500.0	200.0	H	150.0	0.3
1688.000000	---	35.72	54.00	18.28	500.0	100.0	V	239.0	0.4
1969.000000	---	37.08	54.00	16.92	500.0	100.0	V	203.0	2.3
2058.750000	48.94	---	74.00	25.06	500.0	100.0	V	310.0	2.3
2919.750000	---	41.50	54.00	12.50	500.0	100.0	V	302.0	8.2
2920.500000	52.65	---	74.00	21.35	500.0	100.0	H	33.0	8.2



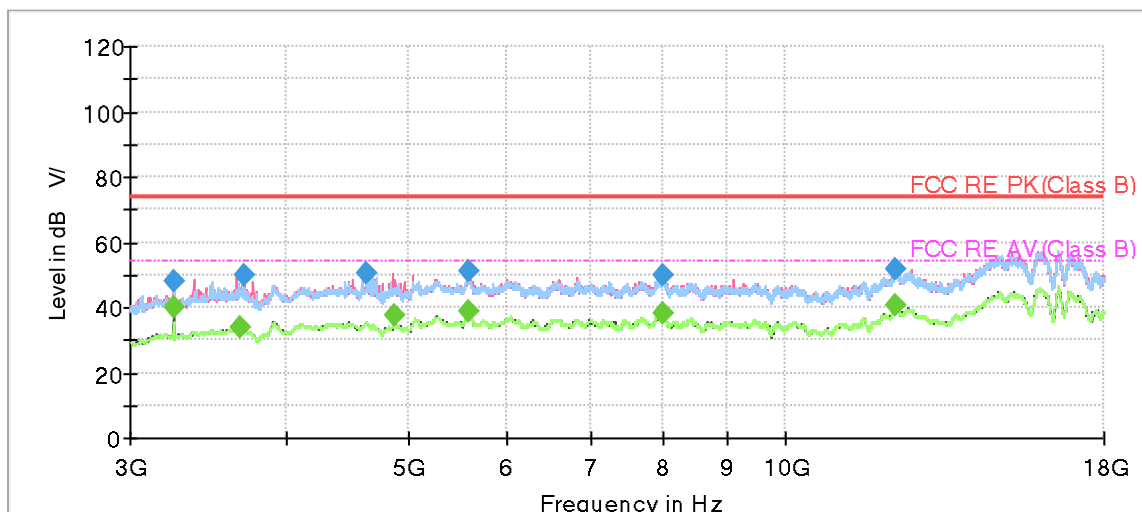
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3215.625000	---	44.26	54.00	9.74	500.0	200.0	V	162.0	-1.0
3215.625000	50.24	---	74.00	23.76	500.0	200.0	V	162.0	-1.0
3909.375000	---	35.75	54.00	18.25	500.0	100.0	V	253.0	3.7
3915.000000	46.74	---	74.00	27.26	500.0	100.0	V	359.0	3.3
4655.625000	52.40	---	74.00	21.60	500.0	200.0	H	256.0	3.5
5280.000000	---	37.35	54.00	16.65	500.0	100.0	H	221.0	6.4
5587.500000	51.01	---	74.00	22.99	500.0	100.0	H	0.0	7.9
5591.250000	---	38.85	54.00	15.15	500.0	100.0	V	286.0	8.1
7998.750000	49.86	---	74.00	24.14	500.0	200.0	H	303.0	9.9
7998.750000	---	38.52	54.00	15.48	500.0	100.0	H	221.0	9.9
12275.625000	---	40.59	54.00	13.41	500.0	200.0	H	358.0	14.6
12285.000000	51.67	---	74.00	22.33	500.0	200.0	H	317.0	14.4



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

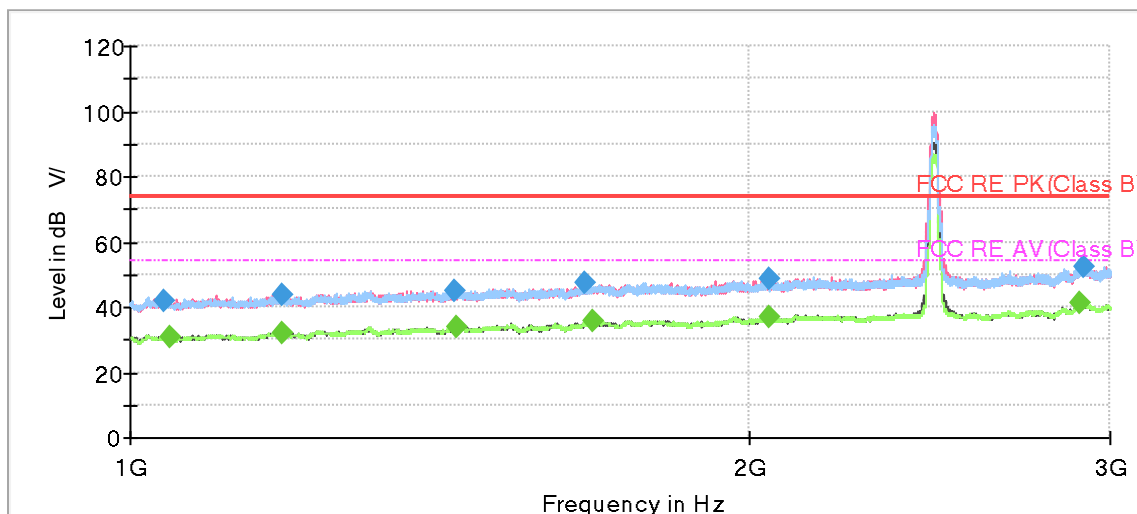
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1033.250000	42.07	---	74.00	31.93	500.0	200.0	H	94.0	-5.9
1050.000000	---	30.05	54.00	23.95	500.0	200.0	V	92.0	-6.2
1184.250000	---	32.28	54.00	21.72	500.0	100.0	V	21.0	-3.9
1189.750000	43.81	---	74.00	30.19	500.0	100.0	V	107.0	-4.2
1306.000000	---	33.65	54.00	20.35	500.0	200.0	H	339.0	-2.2
1442.000000	45.53	---	74.00	28.47	500.0	100.0	V	199.0	-1.6
1651.250000	47.09	---	74.00	26.91	500.0	100.0	H	296.0	-0.3
1704.500000	---	35.81	54.00	18.19	500.0	100.0	H	0.0	0.4
2033.250000	48.15	---	74.00	25.85	500.0	200.0	H	347.0	2.3
2054.250000	---	37.07	54.00	16.93	500.0	100.0	V	326.0	2.4
2904.750000	---	41.36	54.00	12.64	500.0	200.0	V	136.0	8.5
2907.000000	52.62	---	74.00	21.38	500.0	100.0	V	304.0	8.5



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3247.500000	---	39.95	54.00	14.05	500.0	200.0	V	162.0	-1.3
3247.500000	48.24	---	74.00	25.76	500.0	200.0	V	162.0	-1.3
3676.875000	---	33.64	54.00	20.36	500.0	100.0	V	272.0	1.8
3701.250000	49.86	---	74.00	24.14	500.0	200.0	V	223.0	1.4
4636.875000	50.38	---	74.00	23.62	500.0	200.0	H	252.0	3.8
4876.875000	---	37.44	54.00	16.56	500.0	200.0	V	142.0	3.1
5593.125000	---	38.85	54.00	15.15	500.0	100.0	H	62.0	8.1
5595.000000	51.02	---	74.00	22.98	500.0	100.0	H	115.0	8.0
7993.125000	---	38.26	54.00	15.74	500.0	100.0	V	57.0	9.9
7996.875000	49.71	---	74.00	24.29	500.0	200.0	H	187.0	9.9
12275.625000	---	40.73	54.00	13.27	500.0	100.0	H	34.0	14.6
12279.375000	51.91	---	74.00	22.09	500.0	200.0	V	73.0	14.5

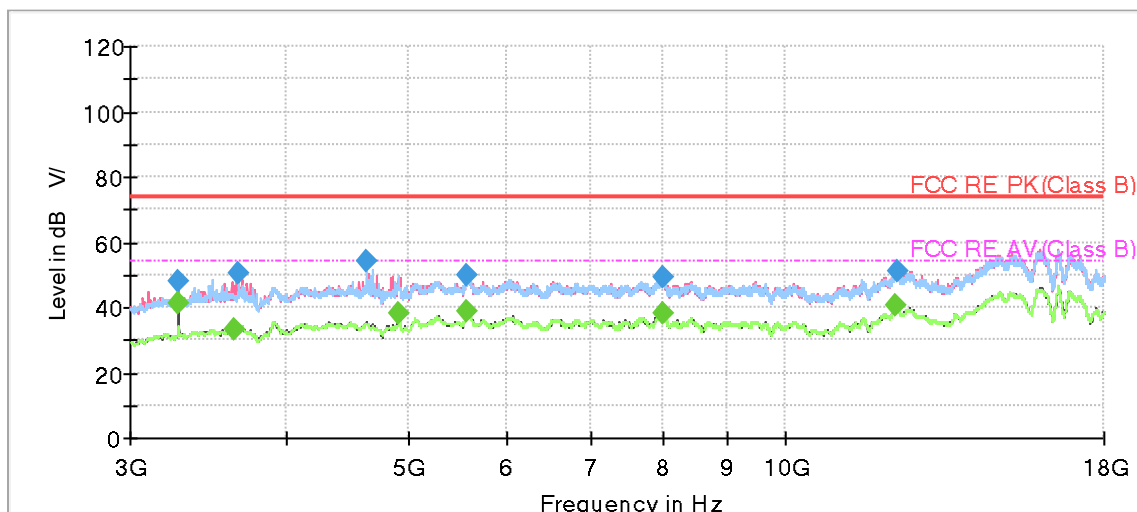
802.11g CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

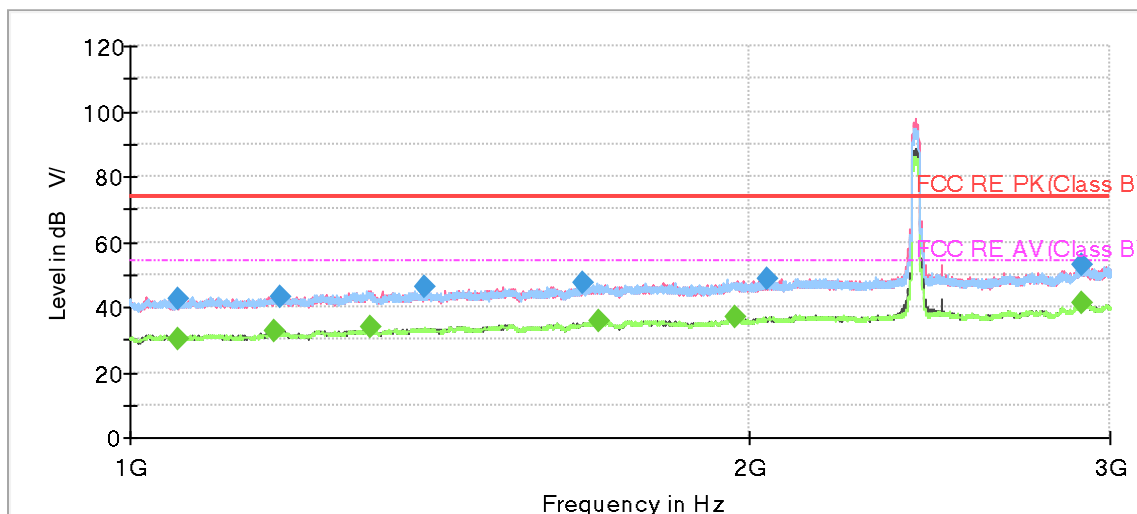
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1039.250000	41.92	---	74.00	32.08	500.0	200.0	V	189.0	-5.6
1046.000000	---	30.64	54.00	23.36	500.0	100.0	V	315.0	-5.9
1185.500000	43.83	---	74.00	30.17	500.0	100.0	V	345.0	-3.9
1187.250000	---	32.19	54.00	21.81	500.0	100.0	V	209.0	-4.0
1440.500000	45.17	---	74.00	28.83	500.0	100.0	H	53.0	-1.7
1441.750000	---	33.71	54.00	20.29	500.0	200.0	V	158.0	-1.6
1666.250000	47.54	---	74.00	26.46	500.0	100.0	V	331.0	0.0
1681.500000	---	35.51	54.00	18.49	500.0	200.0	V	97.0	0.4
2048.750000	---	36.85	54.00	17.15	500.0	100.0	H	143.0	2.5
2049.000000	48.86	---	74.00	25.14	500.0	200.0	H	267.0	2.5
2903.250000	---	41.20	54.00	12.80	500.0	100.0	H	91.0	8.5
2914.000000	52.48	---	74.00	21.52	500.0	200.0	H	230.0	8.3



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3281.250000	---	41.39	54.00	12.61	500.0	200.0	V	163.0	-1.0
3281.250000	47.89	---	74.00	26.11	500.0	200.0	V	163.0	-1.0
3631.875000	---	33.04	54.00	20.96	500.0	200.0	V	2.0	1.1
3663.750000	50.47	---	74.00	23.53	500.0	200.0	V	219.0	1.5
4638.750000	54.19	---	74.00	19.81	500.0	200.0	H	257.0	3.8
4918.125000	---	38.05	54.00	15.95	500.0	200.0	V	141.0	3.0
5578.125000	49.88	---	74.00	24.12	500.0	100.0	V	171.0	7.4
5581.875000	---	38.79	54.00	15.21	500.0	100.0	V	0.0	7.6
7991.250000	49.15	---	74.00	24.85	500.0	100.0	V	232.0	9.9
8002.500000	---	38.13	54.00	15.87	500.0	100.0	V	326.0	9.8
12273.750000	---	40.89	54.00	13.11	500.0	100.0	H	32.0	14.6
12316.875000	51.34	---	74.00	22.66	500.0	200.0	V	2.0	13.9

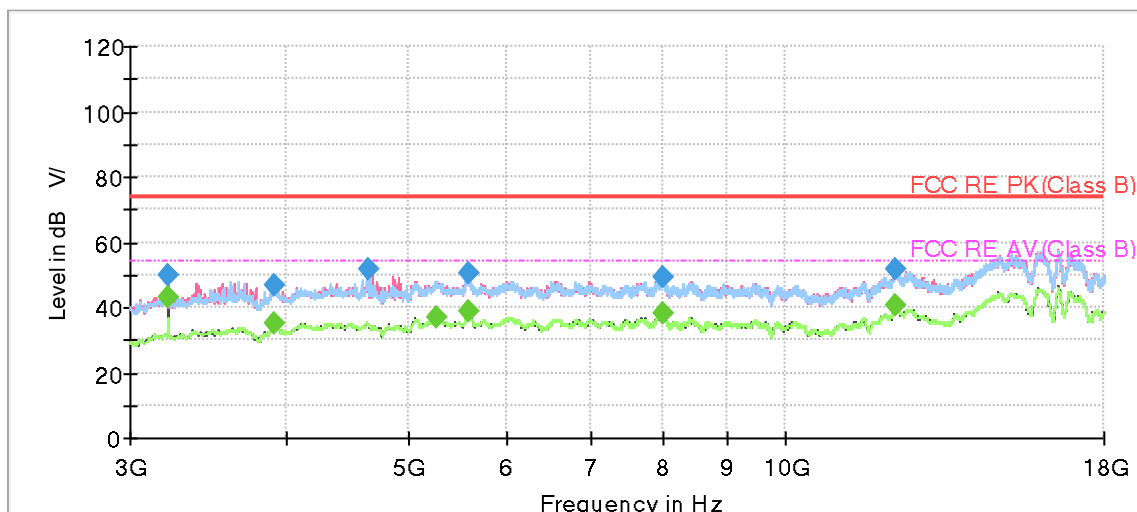
802.11n (HT20) CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

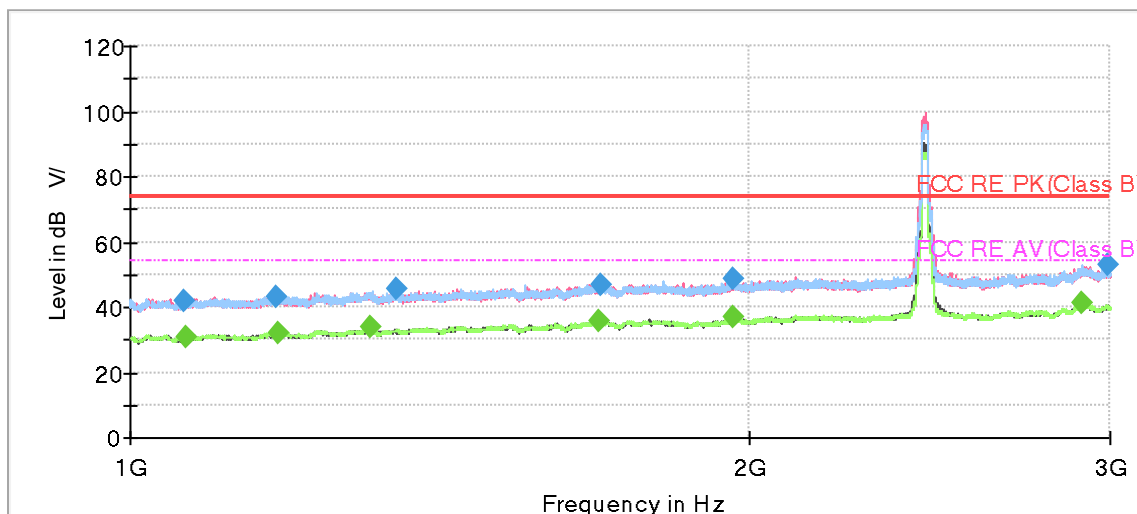
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1054.250000	---	30.08	54.00	23.92	500.0	100.0	V	252.0	-6.1
1055.750000	42.24	---	74.00	31.76	500.0	200.0	H	323.0	-6.1
1175.750000	---	32.49	54.00	21.51	500.0	100.0	V	198.0	-4.2
1182.250000	43.36	---	74.00	30.64	500.0	100.0	V	328.0	-3.9
1308.250000	---	33.90	54.00	20.10	500.0	100.0	V	343.0	-2.0
1392.500000	45.85	---	74.00	28.15	500.0	200.0	H	330.0	-2.4
1662.000000	47.36	---	74.00	26.64	500.0	100.0	H	264.0	-0.1
1692.000000	---	35.85	54.00	18.15	500.0	100.0	V	351.0	0.3
1972.000000	---	36.90	54.00	17.10	500.0	100.0	H	37.0	2.1
2041.250000	48.64	---	74.00	25.36	500.0	100.0	H	121.0	2.4
2905.000000	---	41.17	54.00	12.83	500.0	100.0	V	214.0	8.5
2905.750000	52.78	---	74.00	21.22	500.0	200.0	H	278.0	8.5



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3215.625000	---	43.17	54.00	10.83	500.0	200.0	V	168.0	-1.0
3215.625000	49.90	---	74.00	24.10	500.0	200.0	V	168.0	-1.0
3905.625000	---	35.16	54.00	18.84	500.0	200.0	V	114.0	3.5
3909.375000	46.94	---	74.00	27.06	500.0	100.0	H	67.0	3.7
4651.875000	51.92	---	74.00	22.08	500.0	200.0	H	254.0	3.5
5278.125000	---	37.22	54.00	16.78	500.0	100.0	H	26.0	6.4
5589.375000	50.49	---	74.00	23.51	500.0	100.0	V	218.0	8.0
5595.000000	---	38.72	54.00	15.28	500.0	100.0	V	82.0	8.0
7993.125000	49.44	---	74.00	24.56	500.0	200.0	V	0.0	9.9
7998.750000	---	38.15	54.00	15.85	500.0	100.0	V	0.0	9.9
12266.250000	---	40.48	54.00	13.52	500.0	200.0	H	122.0	14.4
12273.750000	51.68	---	74.00	22.32	500.0	100.0	H	145.0	14.6

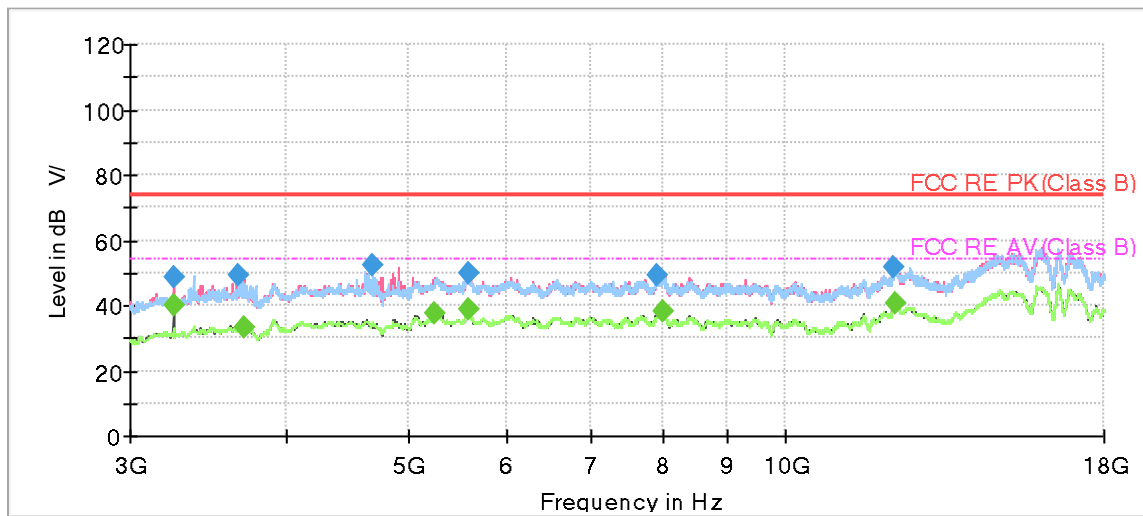
802.11n (HT20) CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

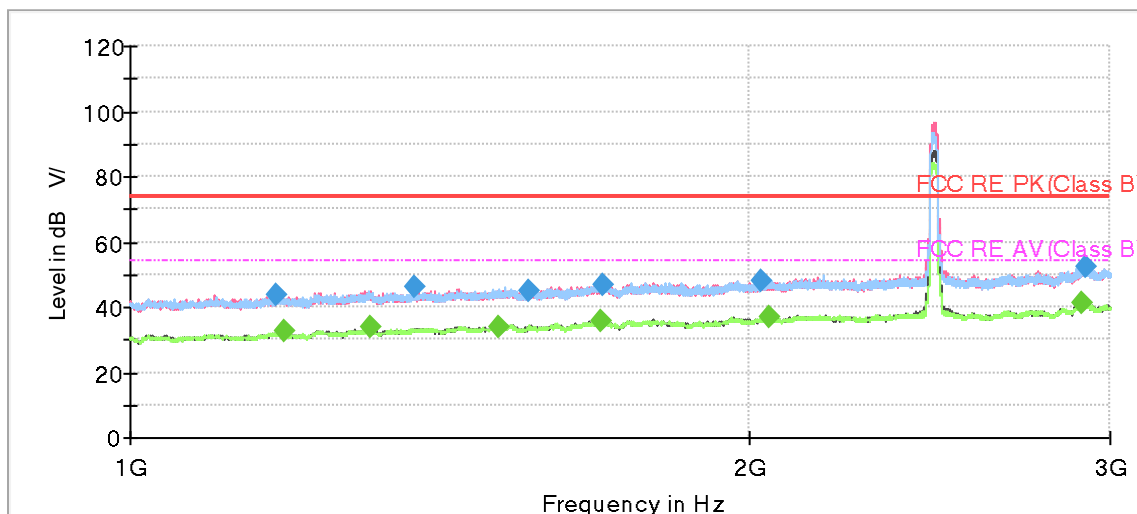
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1062.500000	41.90	---	74.00	32.10	500.0	100.0	V	147.0	-5.8
1065.750000	---	30.95	54.00	23.05	500.0	100.0	V	321.0	-5.7
1178.750000	43.22	---	74.00	30.78	500.0	100.0	V	298.0	-4.1
1180.500000	---	32.23	54.00	21.77	500.0	100.0	H	118.0	-4.0
1309.000000	---	33.96	54.00	20.04	500.0	100.0	V	246.0	-2.1
1346.750000	45.43	---	74.00	28.57	500.0	100.0	H	21.0	-2.7
1693.250000	---	35.92	54.00	18.08	500.0	200.0	H	242.0	0.3
1697.000000	47.05	---	74.00	26.95	500.0	200.0	H	150.0	0.4
1968.000000	---	36.95	54.00	17.05	500.0	100.0	V	275.0	2.3
1968.250000	48.43	---	74.00	25.57	500.0	200.0	V	70.0	2.3
2904.750000	---	41.09	54.00	12.91	500.0	200.0	H	143.0	8.5
2996.000000	52.97	---	74.00	21.03	500.0	200.0	H	225.0	7.9



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3247.500000	---	40.00	54.00	14.00	500.0	200.0	V	166.0	-1.3
3249.375000	48.68	---	74.00	25.32	500.0	200.0	V	166.0	-1.3
3661.875000	49.50	---	74.00	24.50	500.0	200.0	H	299.0	1.4
3701.250000	---	33.20	54.00	20.80	500.0	200.0	V	0.0	1.4
4693.125000	52.22	---	74.00	21.78	500.0	200.0	H	246.0	3.3
5261.250000	---	37.24	54.00	16.76	500.0	100.0	H	130.0	6.3
5583.750000	49.85	---	74.00	24.15	500.0	100.0	H	62.0	7.7
5587.500000	---	38.48	54.00	15.52	500.0	200.0	V	191.0	7.9
7908.750000	49.23	---	74.00	24.77	500.0	200.0	V	71.0	9.4
8008.125000	---	38.32	54.00	15.68	500.0	100.0	H	0.0	9.6
12240.000000	51.84	---	74.00	22.16	500.0	100.0	V	135.0	13.9
12273.750000	---	40.59	54.00	13.41	500.0	100.0	V	109.0	14.6

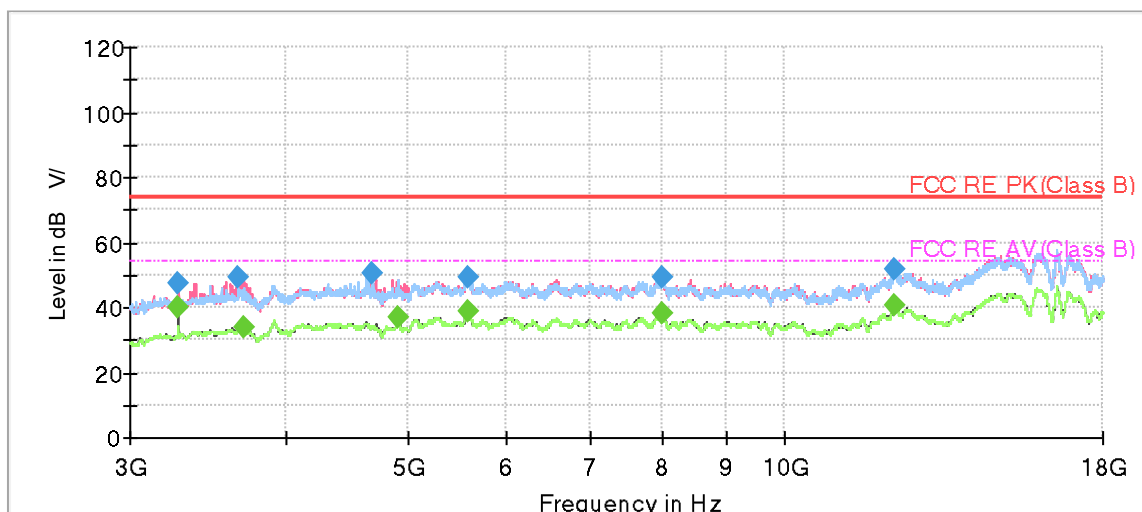
802.11n (HT20) CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

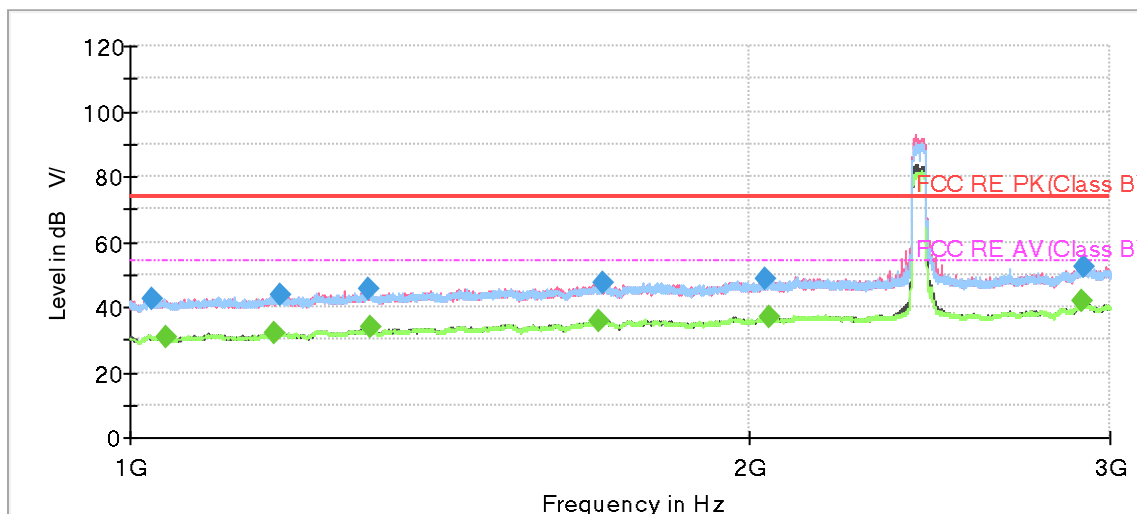
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1179.000000	43.88	---	74.00	30.12	500.0	100.0	H	9.0	-4.1
1188.250000	---	32.39	54.00	21.61	500.0	100.0	V	168.0	-4.1
1310.500000	---	33.72	54.00	20.28	500.0	100.0	V	318.0	-2.3
1375.750000	45.86	---	74.00	28.14	500.0	100.0	V	122.0	-2.3
1512.750000	---	33.55	54.00	20.45	500.0	100.0	V	138.0	-1.3
1565.000000	44.73	---	74.00	29.27	500.0	100.0	H	304.0	-1.0
1694.000000	---	35.80	54.00	18.20	500.0	100.0	H	174.0	0.3
1699.250000	47.06	---	74.00	26.94	500.0	100.0	H	228.0	0.4
2029.250000	48.17	---	74.00	25.83	500.0	100.0	V	48.0	2.2
2047.250000	---	36.88	54.00	17.12	500.0	200.0	H	174.0	2.6
2904.250000	---	41.05	54.00	12.95	500.0	200.0	H	15.0	8.5
2921.500000	52.59	---	74.00	21.41	500.0	100.0	V	239.0	8.2



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3281.250000	---	39.87	54.00	14.13	500.0	100.0	V	147.0	-1.0
3281.250000	47.10	---	74.00	26.90	500.0	100.0	V	147.0	-1.0
3665.625000	48.98	---	74.00	25.02	500.0	200.0	V	48.0	1.5
3701.250000	---	33.57	54.00	20.43	500.0	200.0	V	211.0	1.4
4695.000000	50.27	---	74.00	23.73	500.0	200.0	H	244.0	3.3
4923.750000	---	36.73	54.00	17.27	500.0	200.0	V	118.0	3.0
5593.125000	---	38.62	54.00	15.38	500.0	200.0	H	299.0	8.1
5595.000000	49.35	---	74.00	24.65	500.0	200.0	H	174.0	8.0
8006.250000	49.29	---	74.00	24.71	500.0	100.0	V	299.0	9.7
8010.000000	---	38.05	54.00	15.95	500.0	200.0	V	21.0	9.5
12279.375000	---	40.49	54.00	13.51	500.0	100.0	V	352.0	14.5
12279.375000	51.50	---	74.00	22.50	500.0	200.0	H	135.0	14.5

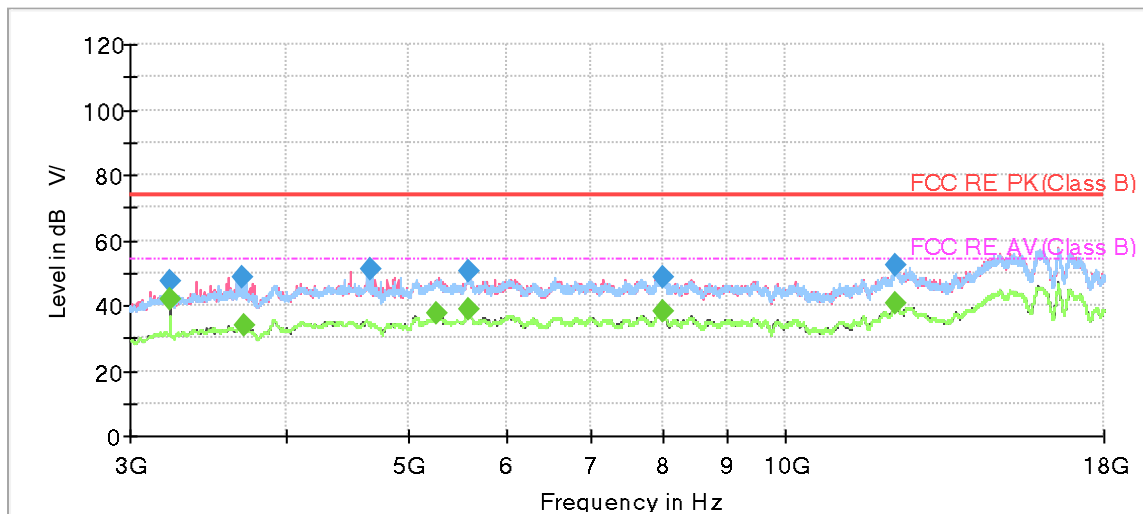
802.11n (HT40) CH3



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

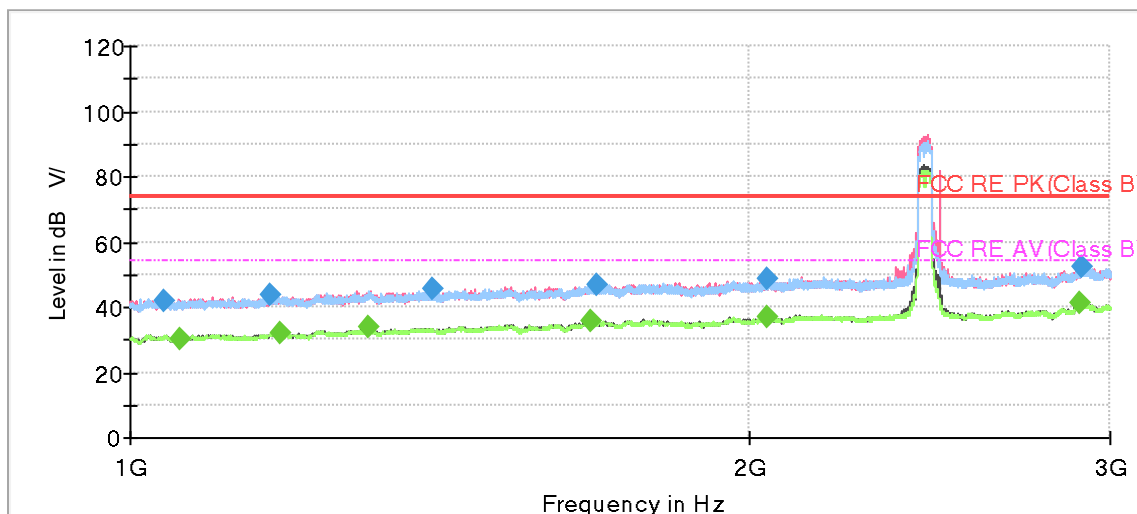
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1024.250000	42.30	---	74.00	31.70	500.0	200.0	V	288.0	-5.6
1041.250000	---	30.67	54.00	23.33	500.0	100.0	V	262.0	-5.5
1176.250000	---	32.19	54.00	21.81	500.0	100.0	V	141.0	-4.2
1184.750000	43.84	---	74.00	30.16	500.0	200.0	H	238.0	-3.9
1307.750000	45.23	---	74.00	28.77	500.0	200.0	H	87.0	-2.1
1309.000000	---	33.79	54.00	20.21	500.0	100.0	V	48.0	-2.1
1691.000000	---	35.76	54.00	18.24	500.0	100.0	V	315.0	0.4
1698.750000	47.21	---	74.00	26.79	500.0	200.0	H	171.0	0.4
2037.500000	48.36	---	74.00	25.64	500.0	200.0	H	79.0	2.4
2046.250000	---	36.90	54.00	17.10	500.0	100.0	H	266.0	2.6
2904.750000	---	41.61	54.00	12.39	500.0	100.0	V	103.0	8.5
2914.250000	52.23	---	74.00	21.77	500.0	200.0	V	8.0	8.3



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3228.750000	---	41.80	54.00	12.20	500.0	200.0	V	171.0	-1.2
3228.750000	47.45	---	74.00	26.55	500.0	200.0	V	171.0	-1.2
3682.500000	48.45	---	74.00	25.55	500.0	200.0	H	284.0	1.9
3697.500000	---	33.74	54.00	20.26	500.0	100.0	V	0.0	1.5
4670.625000	51.26	---	74.00	22.74	500.0	200.0	H	258.0	3.2
5281.875000	---	37.26	54.00	16.74	500.0	200.0	V	10.0	6.4
5585.625000	50.24	---	74.00	23.76	500.0	100.0	H	182.0	7.8
5595.000000	---	38.89	54.00	15.11	500.0	100.0	V	242.0	8.0
7989.375000	48.91	---	74.00	25.09	500.0	200.0	H	325.0	9.9
8004.375000	---	38.41	54.00	15.59	500.0	100.0	H	76.0	9.8
12260.625000	52.57	---	74.00	21.43	500.0	100.0	V	280.0	14.3
12273.750000	---	40.87	54.00	13.13	500.0	100.0	H	1.0	14.6

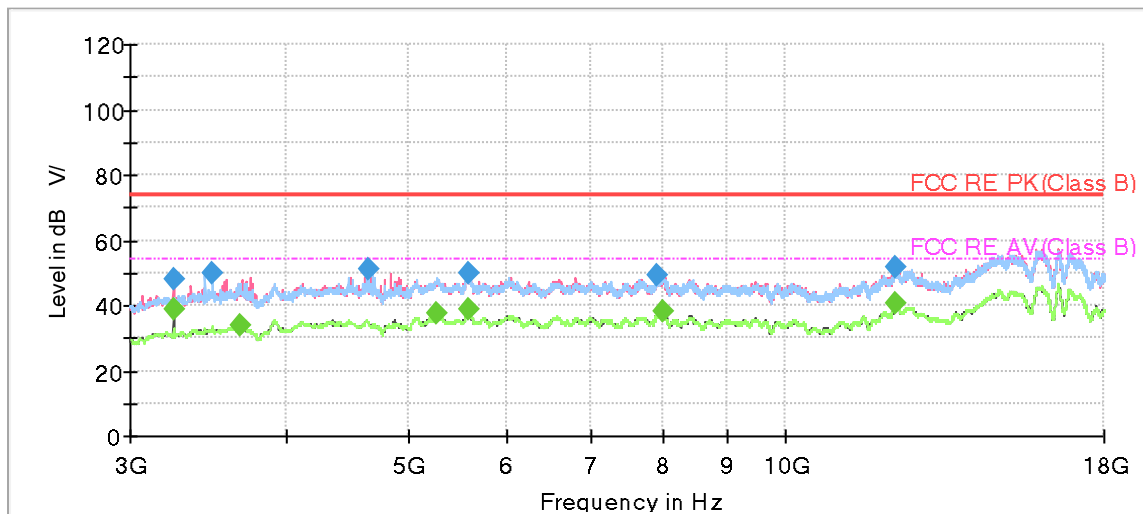
802.11n (HT40) CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

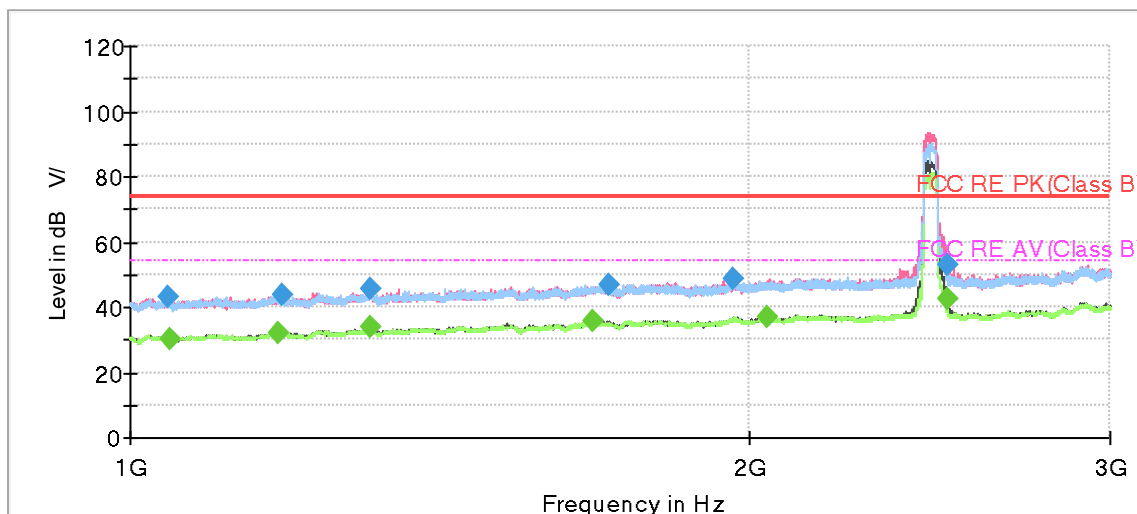
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1040.000000	41.73	---	74.00	32.27	500.0	100.0	V	0.0	-5.5
1058.750000	---	30.45	54.00	23.55	500.0	200.0	V	107.0	-6.0
1169.750000	43.64	---	74.00	30.36	500.0	100.0	V	297.0	-4.4
1184.250000	---	32.23	54.00	21.77	500.0	100.0	V	214.0	-3.9
1307.750000	---	33.59	54.00	20.41	500.0	100.0	H	241.0	-2.1
1402.500000	45.28	---	74.00	28.72	500.0	200.0	H	356.0	-2.3
1678.250000	---	35.75	54.00	18.25	500.0	100.0	V	55.0	0.4
1687.000000	46.96	---	74.00	27.04	500.0	100.0	V	155.0	0.4
2041.000000	48.91	---	74.00	25.09	500.0	100.0	H	303.0	2.4
2041.500000	---	36.96	54.00	17.04	500.0	200.0	H	0.0	2.5
2902.250000	---	40.97	54.00	13.03	500.0	100.0	H	0.0	8.6
2905.000000	52.39	---	74.00	21.61	500.0	200.0	H	251.0	8.5



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3247.500000	---	38.62	54.00	15.38	500.0	200.0	V	169.0	-1.3
3247.500000	47.86	---	74.00	26.14	500.0	200.0	V	169.0	-1.3
3489.375000	49.66	---	74.00	24.34	500.0	200.0	H	270.0	0.4
3680.625000	---	34.15	54.00	19.85	500.0	100.0	V	329.0	1.9
4653.750000	51.24	---	74.00	22.76	500.0	200.0	H	245.0	3.5
5268.750000	---	37.26	54.00	16.74	500.0	100.0	V	260.0	6.6
5591.250000	---	39.07	54.00	14.93	500.0	100.0	H	7.0	8.1
5593.125000	49.95	---	74.00	24.05	500.0	200.0	H	109.0	8.1
7918.125000	49.20	---	74.00	24.80	500.0	100.0	V	124.0	9.7
8006.250000	---	38.42	54.00	15.58	500.0	100.0	H	47.0	9.7
12260.625000	51.63	---	74.00	22.37	500.0	100.0	H	138.0	14.3
12271.875000	---	40.50	54.00	13.50	500.0	200.0	V	349.0	14.6

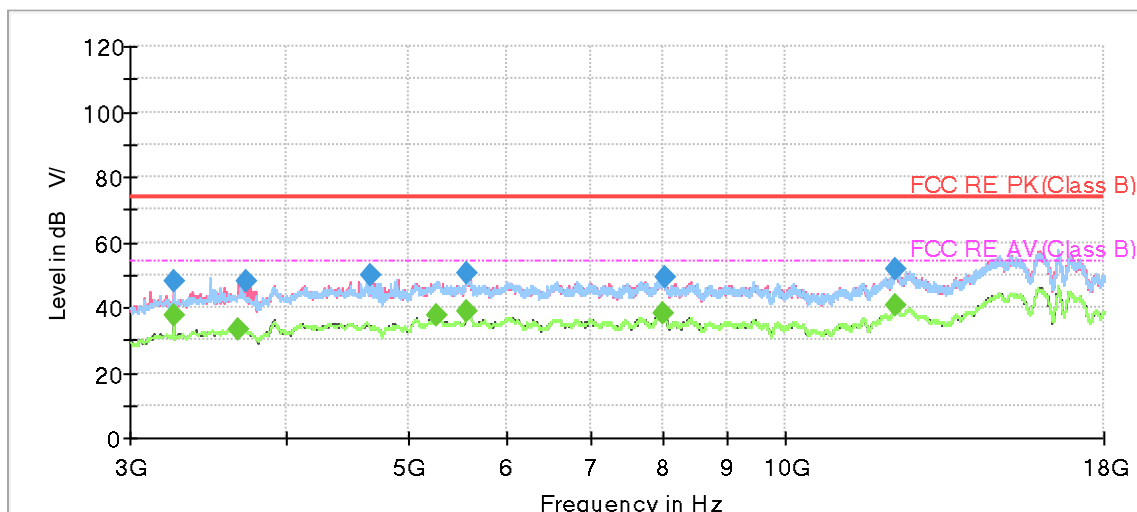
802.11n (HT40) CH9



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1042.500000	42.96	---	74.00	31.04	500.0	200.0	V	4.0	-5.6
1045.500000	---	30.33	54.00	23.67	500.0	200.0	V	138.0	-5.8
1181.500000	---	32.22	54.00	21.78	500.0	100.0	V	339.0	-4.0
1186.250000	43.59	---	74.00	30.41	500.0	200.0	H	224.0	-4.0
1308.250000	45.63	---	74.00	28.37	500.0	200.0	V	123.0	-2.0
1309.750000	---	33.73	54.00	20.27	500.0	100.0	V	293.0	-2.2
1679.000000	---	35.97	54.00	18.03	500.0	100.0	V	241.0	0.4
1711.250000	46.58	---	74.00	27.42	500.0	100.0	V	195.0	0.5
1968.250000	48.40	---	74.00	25.60	500.0	200.0	V	0.0	2.3
2045.000000	---	37.06	54.00	16.94	500.0	100.0	V	187.0	2.5
2498.250000	---	42.18	54.00	11.82	500.0	200.0	V	204.0	4.8
2499.750000	53.21	---	74.00	20.79	500.0	100.0	V	210.0	4.8



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3247.500000	---	37.64	54.00	16.36	500.0	200.0	V	159.0	-1.3
3247.500000	47.85	---	74.00	26.15	500.0	100.0	V	138.0	-1.3
3660.000000	---	33.52	54.00	20.48	500.0	200.0	V	45.0	1.4
3714.375000	48.28	---	74.00	25.72	500.0	200.0	V	213.0	1.0
4668.750000	50.15	---	74.00	23.85	500.0	200.0	V	199.0	3.2
5272.500000	---	37.40	54.00	16.60	500.0	200.0	H	318.0	6.5
5574.375000	50.35	---	74.00	23.65	500.0	200.0	V	130.0	7.2
5580.000000	---	38.78	54.00	15.22	500.0	100.0	H	0.0	7.5
7996.875000	---	38.17	54.00	15.83	500.0	100.0	H	123.0	9.9
8017.500000	49.15	---	74.00	24.85	500.0	200.0	V	31.0	9.3
12255.000000	51.91	---	74.00	22.09	500.0	100.0	H	42.0	14.2
12268.125000	---	40.89	54.00	13.11	500.0	200.0	V	0.0	14.5

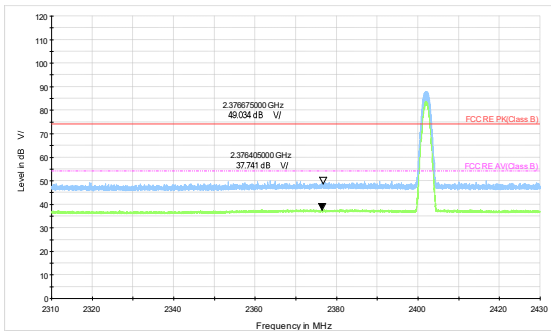
1.2. Bluetooth LE

The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

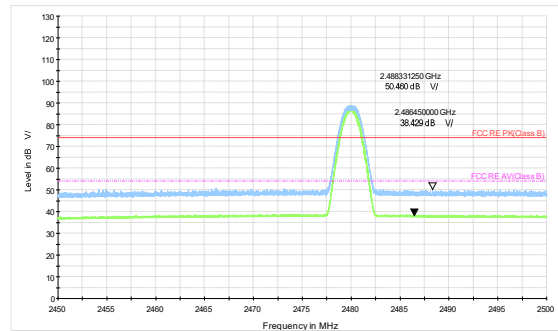
A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

The signal beyond the limit is carrier.

After the pretest, Bluetooth LE (1M) was selected as the worst Mode for Bluetooth LE.



Bluetooth LE Channel 0 Peak+ Average



Bluetooth LE Channel 39 Peak+Average

Result of RE

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier. The Radiates Emission from 18GHz to 26.5GHz are more than 20dB below the limit are not reported.

Remark:

1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit – Quasi-Peak/ MAX Peak/ Average**
3. **A symbol (dB V/) in the test plot below means (dBμV/m)**
4. **The following graphs display the maximum values of coaxial and coplanar for 9k-30MHz; horizontal and vertical for above 30MHz by software.**
5. **For below 1GHz**

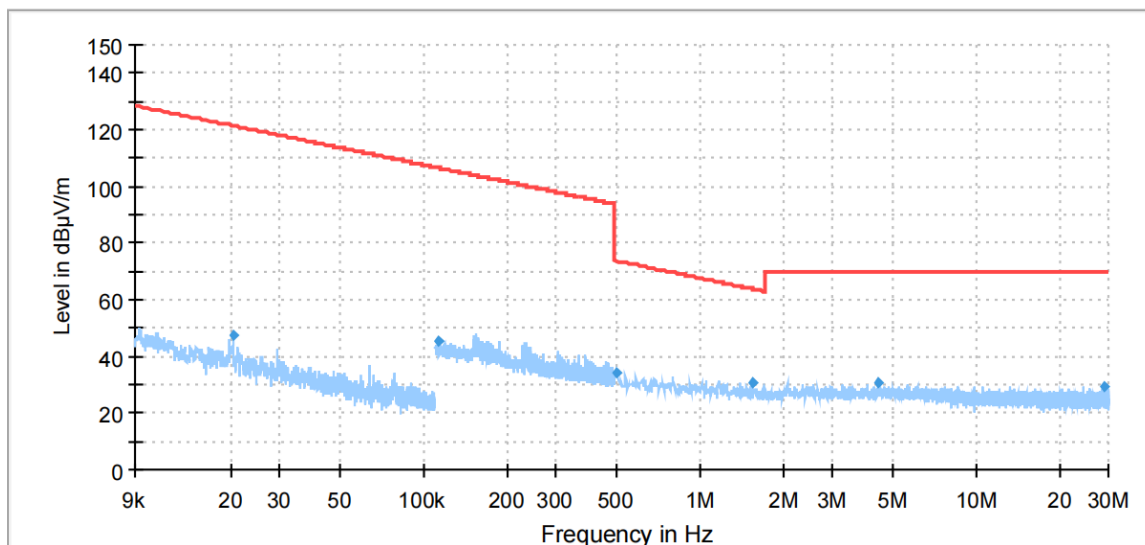
~ QP Level @Spectrum Overview H
 ~ QP Level @Spectrum Overview V
 ◆ QP Level @Final Results
 — QP Limit

For above 1GHz

~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Continuous TX mode:

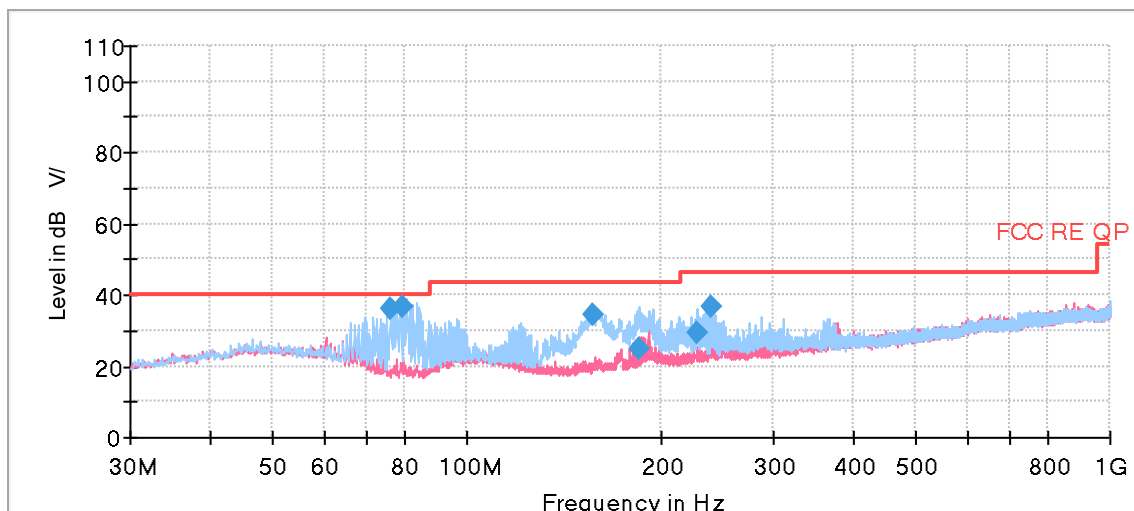
During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition (**Bluetooth LE-Channel 19**) was recorded in this report.



Radiates Emission from 9kHz to 30MHz

Final Result

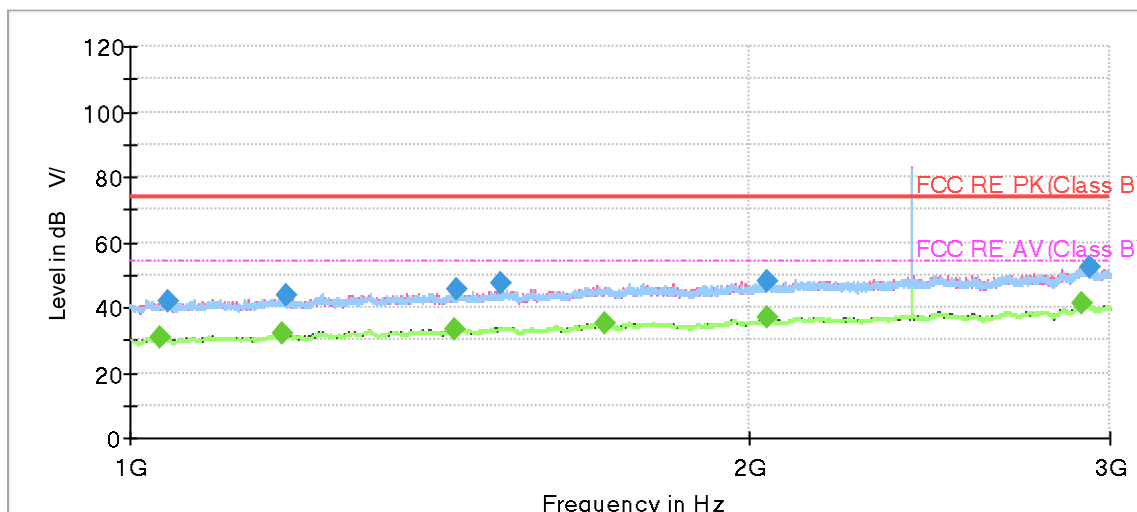
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Azimuth (deg)	Corr. (dB/m)
0.02	47.66	121.43	73.78	500.00	186.00	17
0.11	45.56	106.50	60.95	150.00	82.00	17
0.50	34.39	73.67	39.28	150.00	1.00	17
1.53	30.50	63.88	33.38	150.00	26.00	17
4.42	30.91	69.50	38.59	150.00	329.00	17
29.09	29.63	69.50	39.87	150.00	26.00	17



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
76.155000	36.01	40.00	3.99	225.0	H	9.0	15.4
79.833750	36.89	40.00	3.11	200.0	H	0.0	15.5
157.392500	34.18	43.50	9.32	125.0	H	83.0	16.0
186.007500	24.69	43.50	18.81	114.0	H	297.0	17.9
228.318750	29.11	46.00	16.89	109.0	H	284.0	19.5
239.998750	36.79	46.00	9.21	103.0	H	73.0	20.1

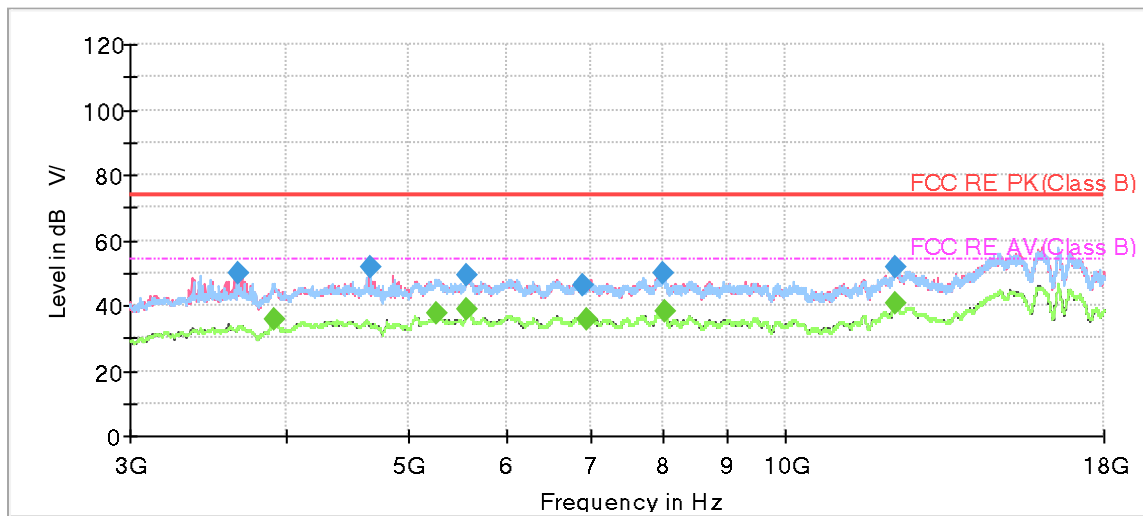
Bluetooth LE-Channel 0



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

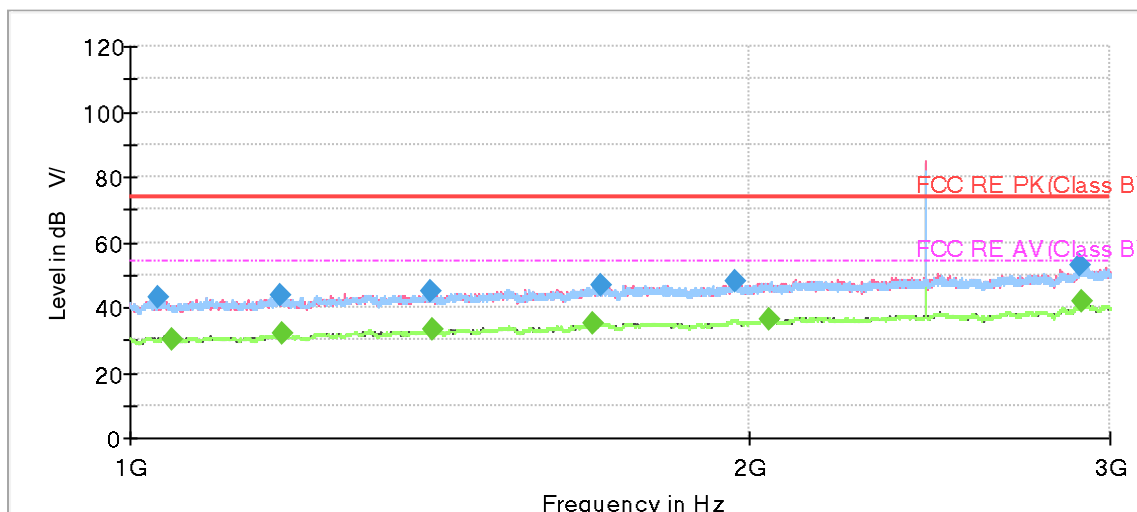
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1033.500000	---	30.54	54.00	23.46	500.0	100.0	V	349.0	-5.9
1042.500000	41.87	---	74.00	32.13	500.0	100.0	V	254.0	-5.6
1185.000000	---	31.95	54.00	22.05	500.0	200.0	V	185.0	-3.9
1191.000000	43.70	---	74.00	30.30	500.0	100.0	V	241.0	-4.3
1439.750000	---	33.35	54.00	20.65	500.0	200.0	V	296.0	-1.7
1441.250000	45.34	---	74.00	28.66	500.0	200.0	V	111.0	-1.6
1515.500000	47.55	---	74.00	26.45	500.0	200.0	H	209.0	-1.2
1702.750000	---	35.29	54.00	18.71	500.0	100.0	V	349.0	0.4
2041.000000	48.16	---	74.00	25.84	500.0	200.0	H	0.0	2.4
2045.250000	---	36.86	54.00	17.14	500.0	100.0	V	0.0	2.5
2904.750000	---	41.27	54.00	12.73	500.0	200.0	V	321.0	8.5
2935.000000	52.48	---	74.00	21.52	500.0	200.0	V	53.0	7.8



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3663.750000	49.56	---	74.00	24.44	500.0	200.0	V	243.0	1.5
3905.625000	---	35.62	54.00	18.38	500.0	200.0	V	177.0	3.5
4670.625000	51.79	---	74.00	22.21	500.0	200.0	H	249.0	3.2
5272.500000	---	37.44	54.00	16.56	500.0	200.0	H	0.0	6.5
5580.000000	---	38.51	54.00	15.49	500.0	100.0	H	351.0	7.5
5581.875000	49.24	---	74.00	24.76	500.0	100.0	V	63.0	7.6
6894.375000	46.19	---	74.00	27.81	500.0	200.0	V	258.0	5.9
6945.000000	---	35.63	54.00	18.37	500.0	200.0	V	272.0	6.4
7993.125000	49.62	---	74.00	24.38	500.0	100.0	H	351.0	9.9
8013.750000	---	38.23	54.00	15.77	500.0	200.0	V	311.0	9.4
12285.000000	51.61	---	74.00	22.39	500.0	200.0	H	0.0	14.4
12286.875000	---	40.65	54.00	13.35	500.0	100.0	V	0.0	14.4

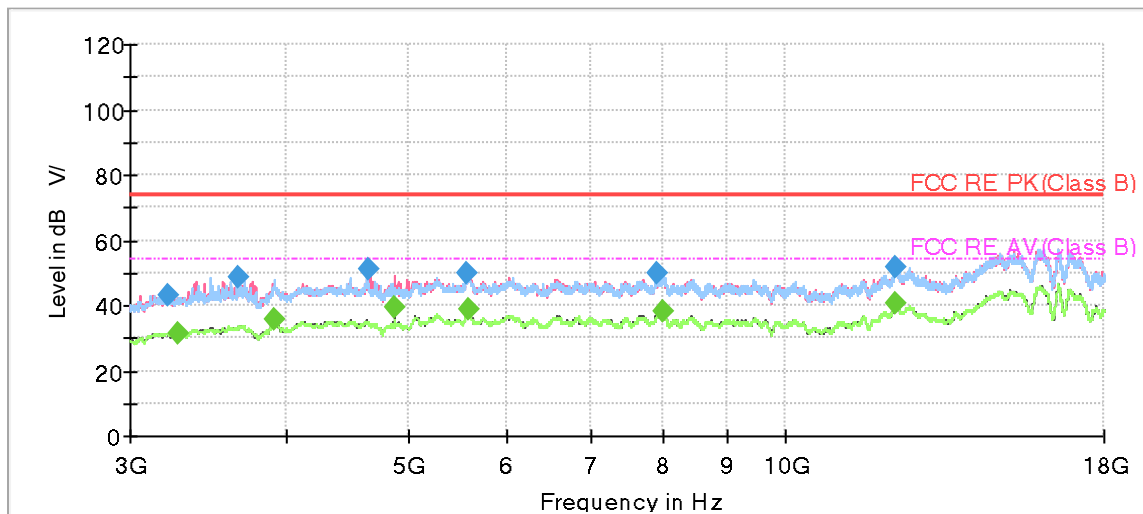
Bluetooth LE-Channel 19



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

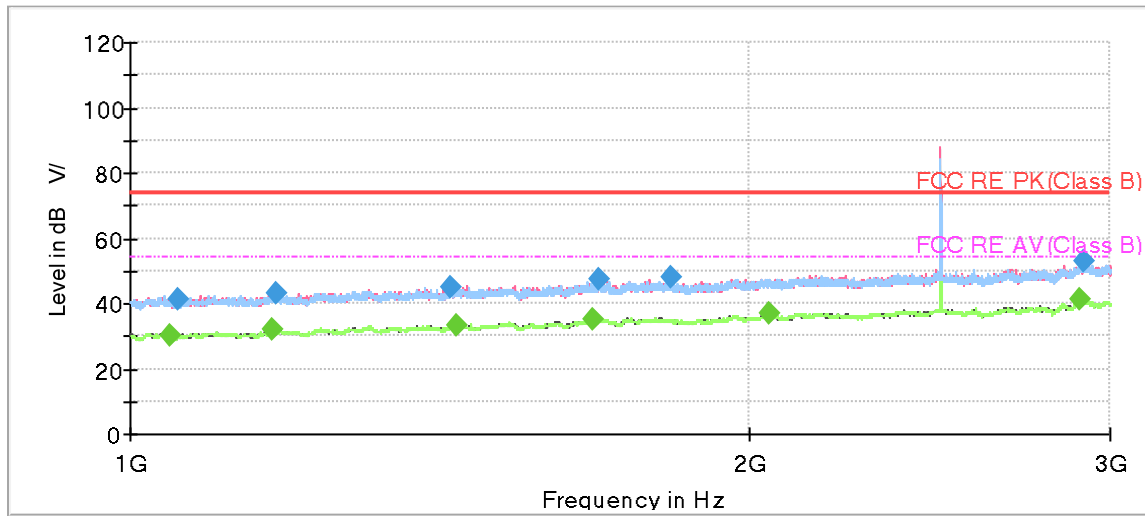
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1033.000000	42.97	---	74.00	31.03	500.0	200.0	H	291.0	-5.9
1048.500000	---	29.96	54.00	24.04	500.0	200.0	V	0.0	-6.1
1183.500000	43.41	---	74.00	30.59	500.0	100.0	V	278.0	-3.9
1185.750000	---	31.90	54.00	22.10	500.0	200.0	V	312.0	-4.0
1402.000000	45.18	---	74.00	28.82	500.0	200.0	H	359.0	-2.3
1402.500000	---	33.23	54.00	20.77	500.0	100.0	V	338.0	-2.3
1681.250000	---	35.23	54.00	18.77	500.0	200.0	H	314.0	0.4
1694.000000	46.49	---	74.00	27.51	500.0	200.0	H	359.0	0.3
1970.250000	48.24	---	74.00	25.76	500.0	100.0	V	278.0	2.2
2048.750000	---	36.58	54.00	17.42	500.0	100.0	V	278.0	2.5
2901.500000	52.82	---	74.00	21.18	500.0	200.0	H	110.0	8.6
2905.250000	---	41.76	54.00	12.24	500.0	200.0	H	241.0	8.5



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3217.500000	43.07	---	74.00	30.93	500.0	100.0	H	123.0	-1.0
3273.750000	---	31.47	54.00	22.53	500.0	100.0	V	208.0	-1.0
3663.750000	48.73	---	74.00	25.27	500.0	200.0	V	216.0	1.5
3907.500000	---	35.67	54.00	18.33	500.0	100.0	V	128.0	3.6
4650.000000	51.35	---	74.00	22.65	500.0	200.0	V	216.0	3.6
4878.750000	---	39.68	54.00	14.32	500.0	200.0	V	137.0	3.1
5580.000000	50.02	---	74.00	23.98	500.0	200.0	V	242.0	7.5
5593.125000	---	38.64	54.00	15.36	500.0	200.0	V	204.0	8.1
7921.875000	49.87	---	74.00	24.13	500.0	100.0	V	128.0	9.9
8008.125000	---	37.87	54.00	16.13	500.0	200.0	V	0.0	9.6
12258.750000	51.84	---	74.00	22.16	500.0	100.0	H	204.0	14.3
12277.500000	---	40.63	54.00	13.37	500.0	100.0	H	55.0	14.6

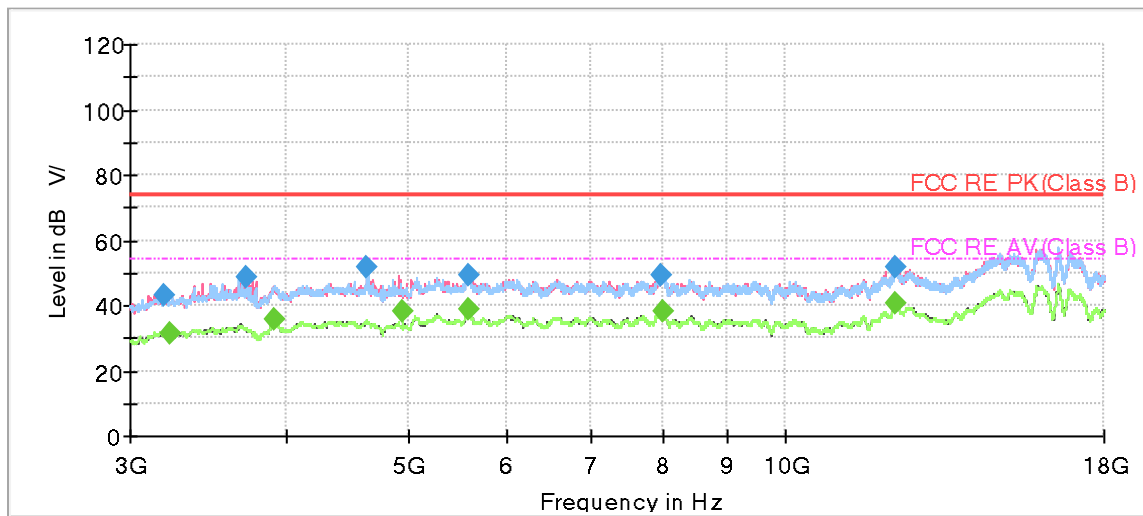
Bluetooth LE-Channel 39



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1045.500000	---	30.36	54.00	23.64	500.0	200.0	V	38.0	-5.8
1055.750000	41.18	---	74.00	32.82	500.0	200.0	H	156.0	-6.1
1174.000000	---	31.96	54.00	22.04	500.0	100.0	H	188.0	-4.3
1177.750000	43.38	---	74.00	30.62	500.0	100.0	V	0.0	-4.1
1434.000000	44.76	---	74.00	29.24	500.0	200.0	V	26.0	-1.9
1441.500000	---	33.33	54.00	20.67	500.0	100.0	H	111.0	-1.6
1678.750000	---	35.26	54.00	18.74	500.0	200.0	V	133.0	0.4
1691.500000	47.23	---	74.00	26.77	500.0	200.0	V	169.0	0.3
1834.000000	47.79	---	74.00	26.21	500.0	200.0	V	302.0	0.6
2046.500000	---	36.75	54.00	17.25	500.0	100.0	H	0.0	2.6
2902.500000	---	41.31	54.00	12.69	500.0	100.0	V	281.0	8.6
2910.500000	52.79	---	74.00	21.21	500.0	100.0	H	39.0	8.4



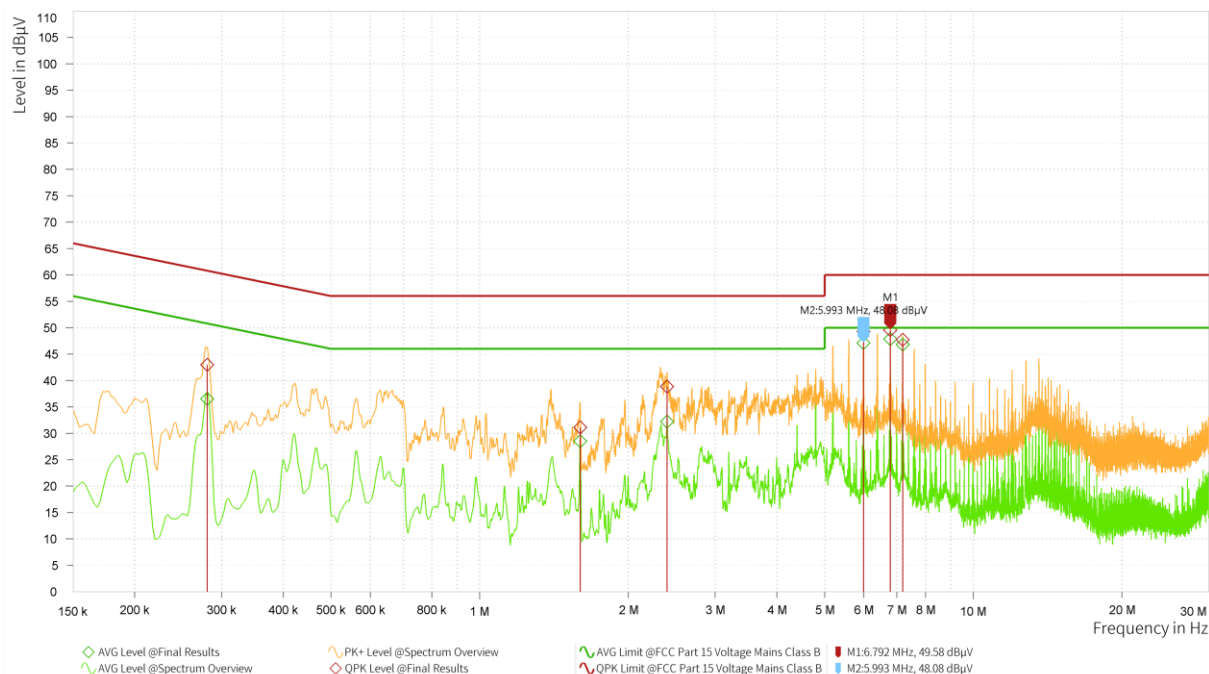
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3191.250000	43.10	---	74.00	30.90	500.0	100.0	V	183.0	-0.8
3225.000000	---	31.28	54.00	22.72	500.0	200.0	V	97.0	-1.1
3718.125000	48.77	---	74.00	25.23	500.0	200.0	V	232.0	0.9
3909.375000	---	35.71	54.00	18.29	500.0	100.0	H	210.0	3.7
4642.500000	51.68	---	74.00	22.32	500.0	200.0	H	262.0	3.7
4959.375000	---	38.17	54.00	15.83	500.0	200.0	V	111.0	3.3
5587.500000	---	38.82	54.00	15.18	500.0	200.0	H	109.0	7.9
5593.125000	49.26	---	74.00	24.74	500.0	100.0	H	223.0	8.1
7983.750000	49.36	---	74.00	24.64	500.0	100.0	H	330.0	9.9
8008.125000	---	38.37	54.00	15.63	500.0	200.0	V	0.0	9.6
12281.250000	---	40.42	54.00	13.58	500.0	100.0	H	344.0	14.5
12283.125000	51.59	---	74.00	22.41	500.0	200.0	V	11.0	14.5

2. Conducted Emission

2.1. Wi-Fi 2.4GHz

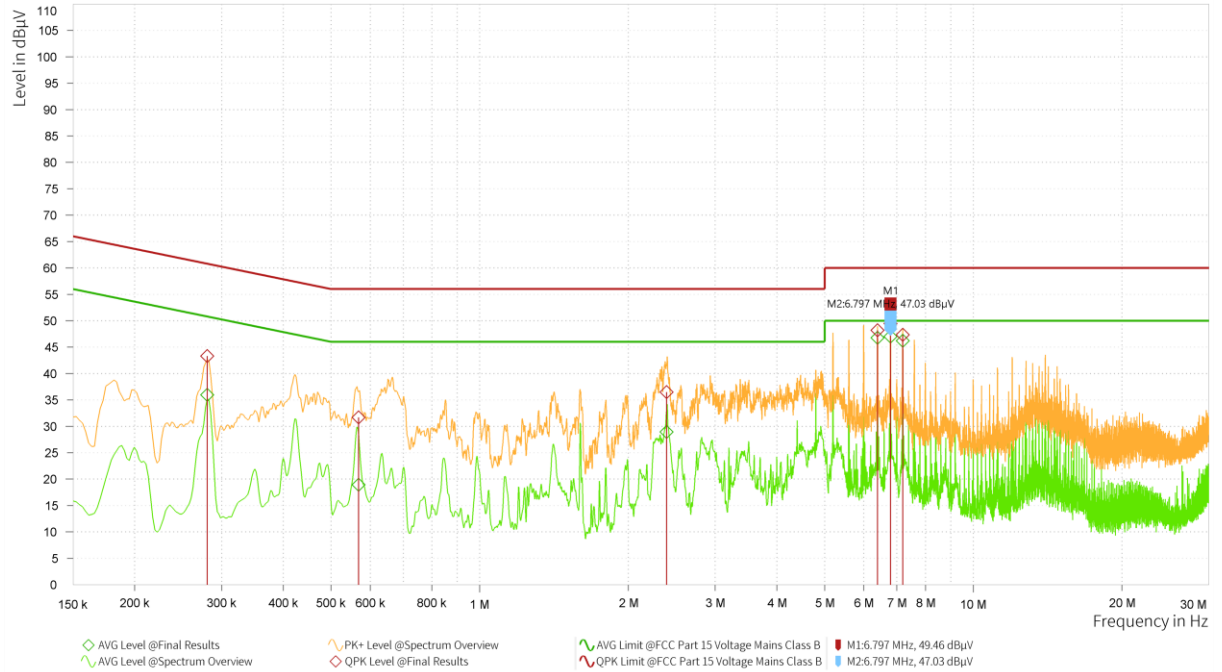
During the test, the Conducted Emission was performed in all modes with all channel. The test data of the worst-case condition (**802.11b CH11**) was recorded in this report.



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.281	42.99	60.80	17.81	36.51	50.80	14.29	20.95	L1	9.000	1.000
1.599	31.10	56.00	24.90	28.52	46.00	17.48	19.79	L1	9.000	1.000
2.398	38.83	56.00	17.17	32.21	46.00	13.79	19.56	L1	9.000	1.000
5.993	49.29	60.00	10.71	47.08	50.00	2.92	19.40	L1	9.000	1.000
6.792	49.58	60.00	10.42	47.85	50.00	2.15	19.41	L1	9.000	1.000
7.193	47.70	60.00	12.30	46.79	50.00	3.21	19.41	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



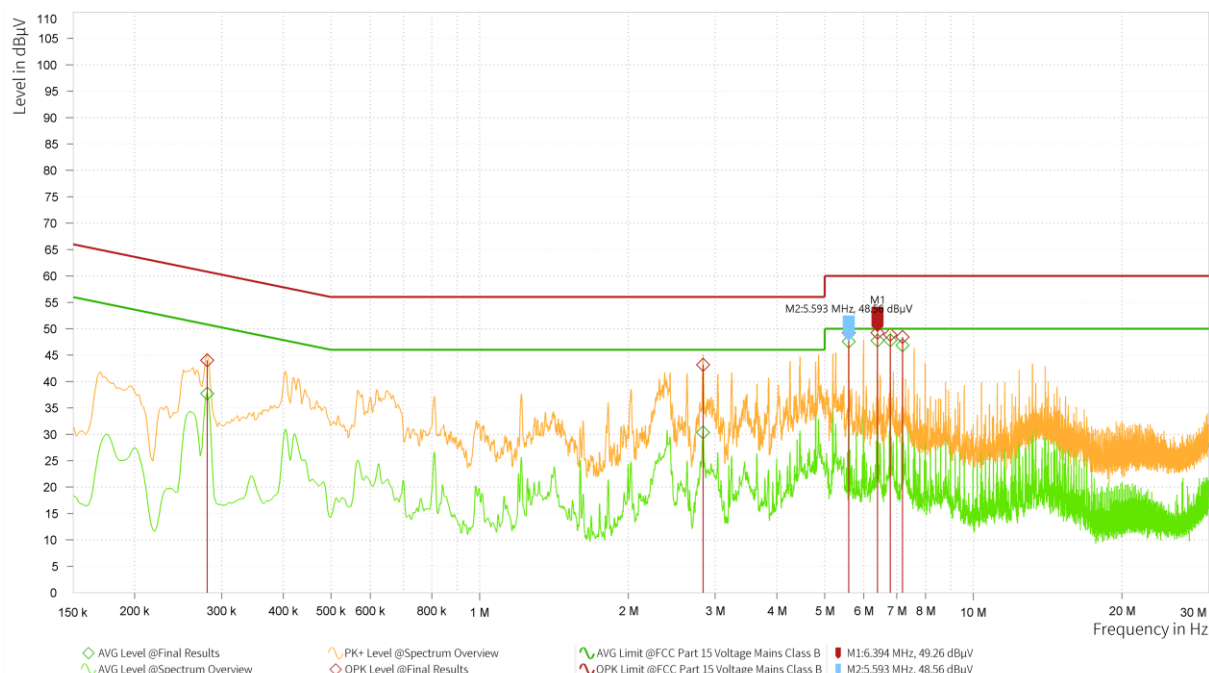
Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.281	43.33	60.80	17.47	35.94	50.80	14.86	20.96	N	9.000	1.000
0.569	31.69	56.00	24.31	18.94	46.00	27.06	20.72	N	9.000	1.000
2.391	36.50	56.00	19.50	28.92	46.00	17.08	19.57	N	9.000	1.000
6.396	48.19	60.00	11.81	46.78	50.00	3.22	19.41	N	9.000	1.000
6.797	49.46	60.00	10.54	47.03	50.00	2.97	19.41	N	9.000	1.000
7.195	47.36	60.00	12.64	46.22	50.00	3.78	19.41	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

2.2. Bluetooth LE

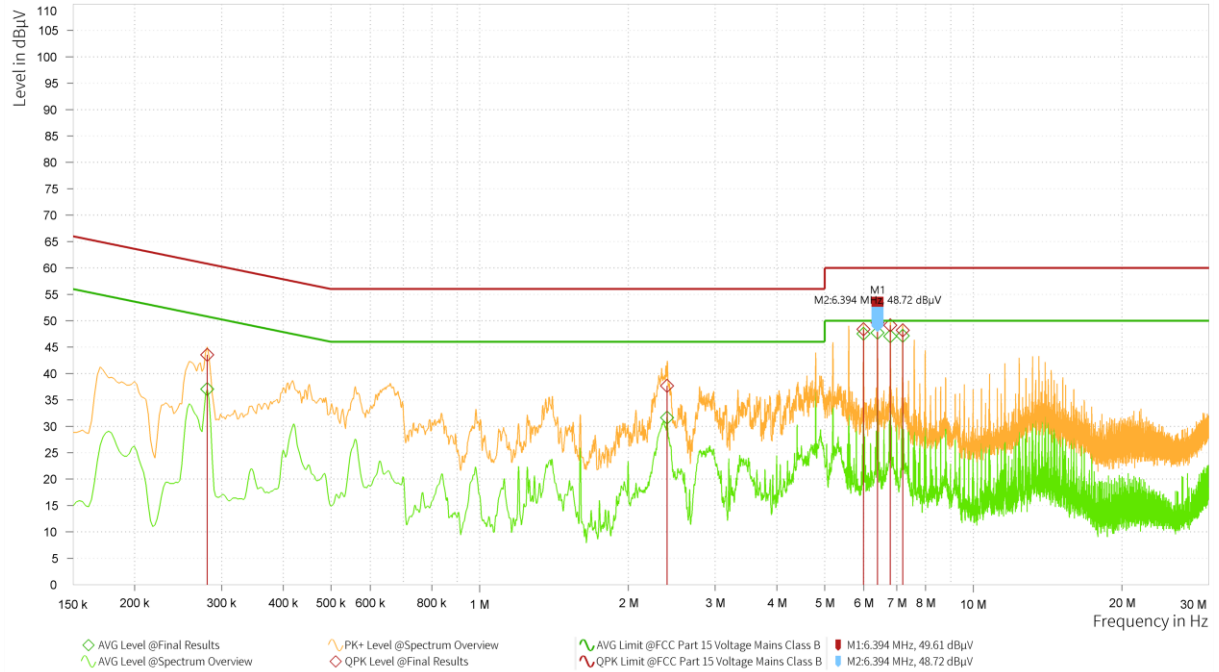
During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition (**Bluetooth LE-Channel 19**) was recorded in this report.



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.281	44.01	60.80	16.79	37.71	50.80	13.09	20.95	L1	9.000	1.000
2.834	43.16	56.00	12.84	30.36	46.00	15.64	19.50	L1	9.000	1.000
5.593	49.25	60.00	10.75	47.56	50.00	2.44	19.40	L1	9.000	1.000
6.394	49.26	60.00	10.74	47.75	50.00	2.25	19.40	L1	9.000	1.000
6.792	48.84	60.00	11.16	47.81	50.00	2.19	19.41	L1	9.000	1.000
7.190	48.42	60.00	11.58	46.85	50.00	3.15	19.41	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.281	43.57	60.80	17.23	37.07	50.80	13.73	20.96	N	9.000	1.000
2.398	37.64	56.00	18.36	31.62	46.00	14.38	19.57	N	9.000	1.000
5.993	48.37	60.00	11.63	47.52	50.00	2.48	19.41	N	9.000	1.000
6.394	49.61	60.00	10.39	47.72	50.00	2.28	19.41	N	9.000	1.000
6.792	49.15	60.00	10.85	47.06	50.00	2.94	19.41	N	9.000	1.000
7.193	48.20	60.00	11.80	47.17	50.00	2.83	19.41	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz