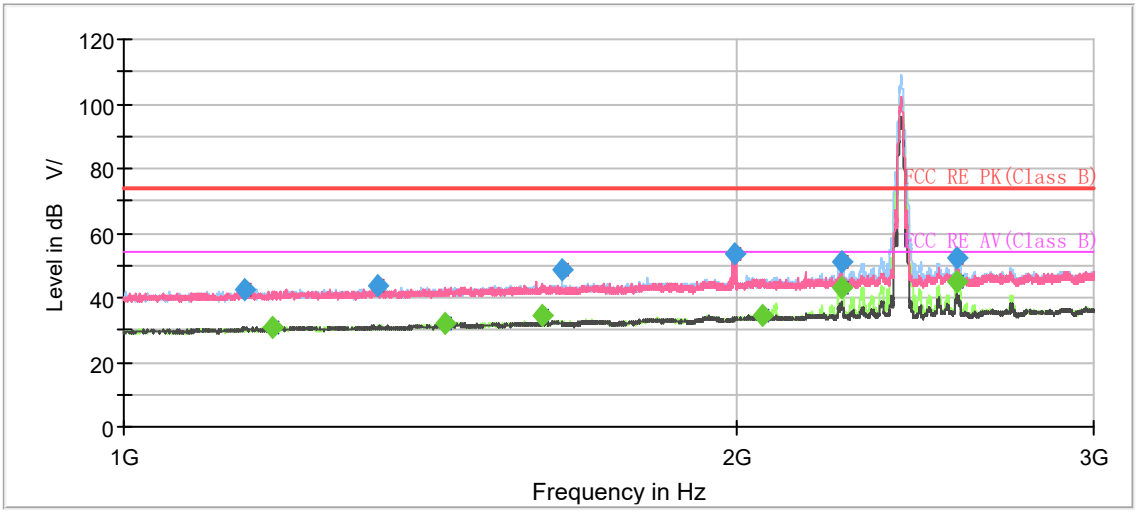
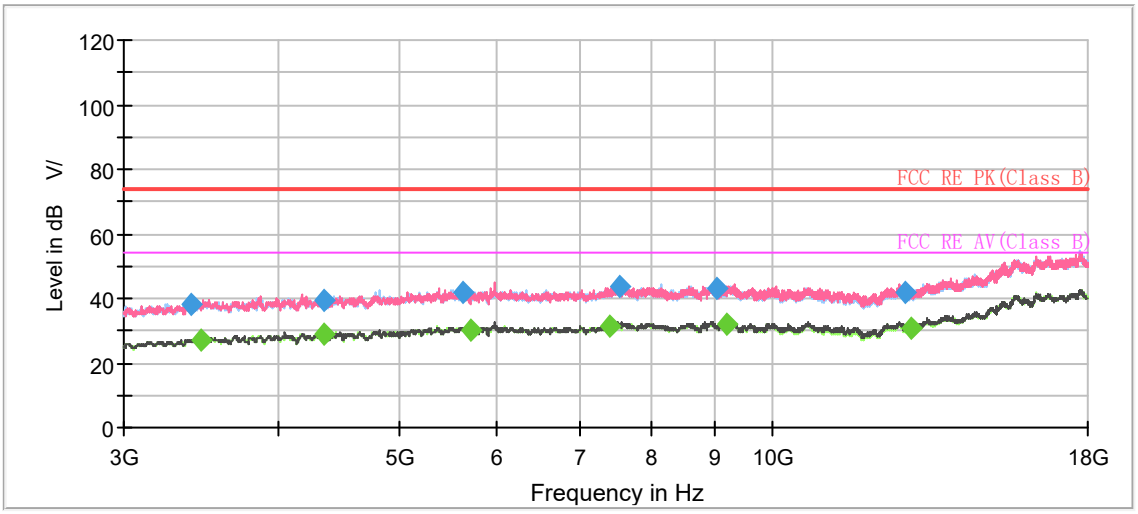
802.11b CH1



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1148.000000	42.36	---	74.00	31.64	500.0	200.0	H	233.0	-7.8
1183.500000	---	30.98	54.00	23.02	500.0	100.0	H	96.0	-7.6
1334.500000	43.45	---	74.00	30.55	500.0	200.0	V	127.0	-6.6
1438.250000	---	31.71	54.00	22.29	500.0	200.0	H	83.0	-6.0
1608.000000	---	34.57	54.00	19.43	500.0	200.0	H	329.0	-5.0
1643.500000	48.85	---	74.00	25.15	500.0	200.0	H	241.0	-4.8
1996.500000	53.47	---	74.00	20.53	500.0	200.0	V	149.0	-3.0
2061.250000	---	34.35	54.00	19.65	500.0	200.0	V	1.0	-2.6
2254.500000	---	43.11	54.00	10.89	500.0	200.0	H	310.0	-1.9
2255.500000	50.89	---	74.00	23.11	500.0	200.0	H	307.0	-1.9
2569.500000	---	44.74	54.00	9.26	500.0	200.0	H	302.0	-0.3
2570.250000	52.32	---	74.00	21.68	500.0	200.0	H	302.0	-0.3

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

2. Margin = Limit –MAX Peak/ Average

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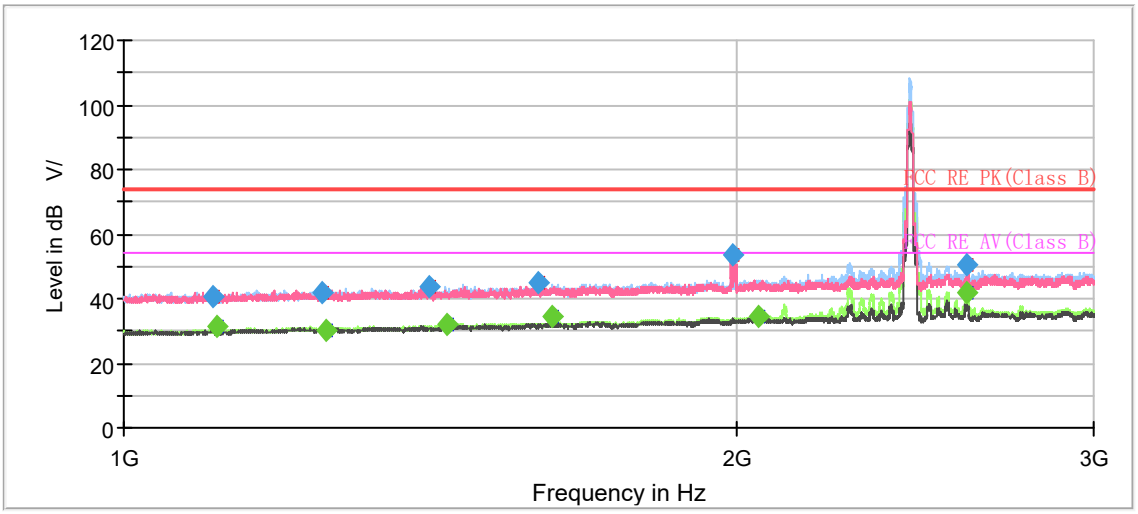
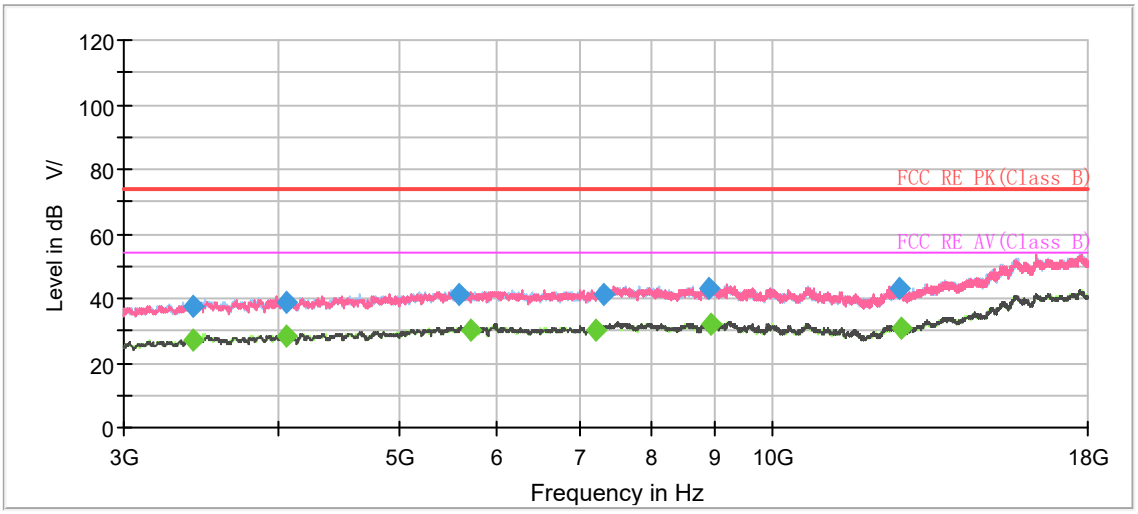
802.11b CH6



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.250000	40.66	---	74.00	33.34	500.0	100.0	H	221.0	-8.1
1112.500000	---	31.62	54.00	22.38	500.0	200.0	H	205.0	-8.0
1252.750000	41.98	---	74.00	32.02	500.0	200.0	H	129.0	-7.1
1258.000000	---	30.20	54.00	23.80	500.0	200.0	H	38.0	-7.1
1414.000000	43.57	---	74.00	30.43	500.0	100.0	H	352.0	-6.1
1441.000000	---	31.71	54.00	22.29	500.0	100.0	H	324.0	-5.9
1599.250000	44.93	---	74.00	29.07	500.0	200.0	H	328.0	-5.0
1624.500000	---	34.42	54.00	19.58	500.0	200.0	H	82.0	-4.9
1993.500000	53.39	---	74.00	20.61	500.0	200.0	V	141.0	-3.0
2052.750000	---	34.36	54.00	19.64	500.0	200.0	H	105.0	-2.6
2595.500000	---	41.75	54.00	12.25	500.0	100.0	H	0.0	-0.2
2596.000000	50.21	---	74.00	23.79	500.0	100.0	H	2.0	-0.2

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

2. Margin = Limit –MAX Peak/ Average

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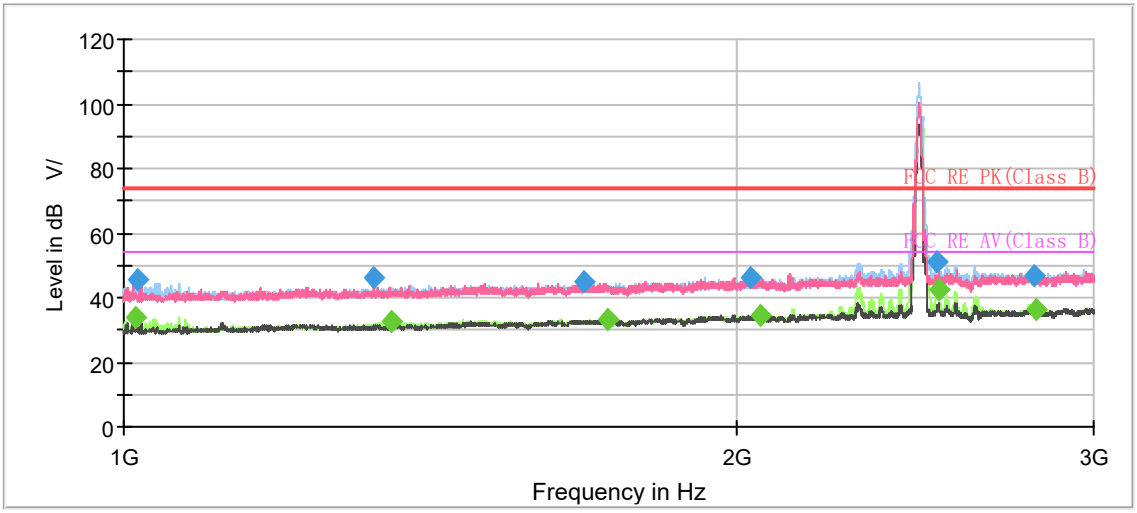
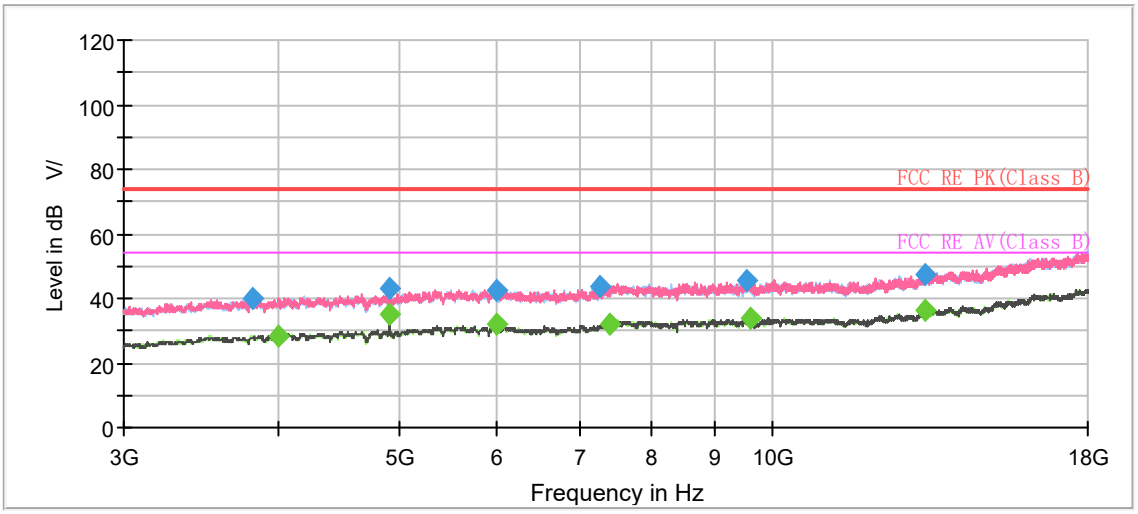
802.11b CH11



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1013.500000	---	33.94	54.00	20.06	500.0	200.0	H	281.0	-8.7
1014.750000	45.28	---	74.00	28.72	500.0	200.0	H	295.0	-8.7
1328.250000	45.93	---	74.00	28.07	500.0	200.0	V	0.0	-6.7
1355.500000	---	32.65	54.00	21.35	500.0	200.0	H	260.0	-6.5
1684.750000	44.65	---	74.00	29.35	500.0	200.0	H	59.0	-4.6
1728.750000	---	33.31	54.00	20.69	500.0	200.0	H	128.0	-4.4
2032.500000	46.33	---	74.00	27.67	500.0	200.0	H	242.0	-2.7
2058.000000	---	34.34	54.00	19.66	500.0	200.0	H	269.0	-2.6
2513.500000	51.18	---	74.00	22.82	500.0	200.0	H	304.0	-0.5
2515.500000	---	42.55	54.00	11.45	500.0	100.0	H	26.0	-0.5
2803.750000	46.81	---	74.00	27.19	500.0	200.0	H	309.0	0.4
2811.250000	---	36.36	54.00	17.64	500.0	100.0	H	109.0	0.5

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

2. Margin = Limit –MAX Peak/ Average

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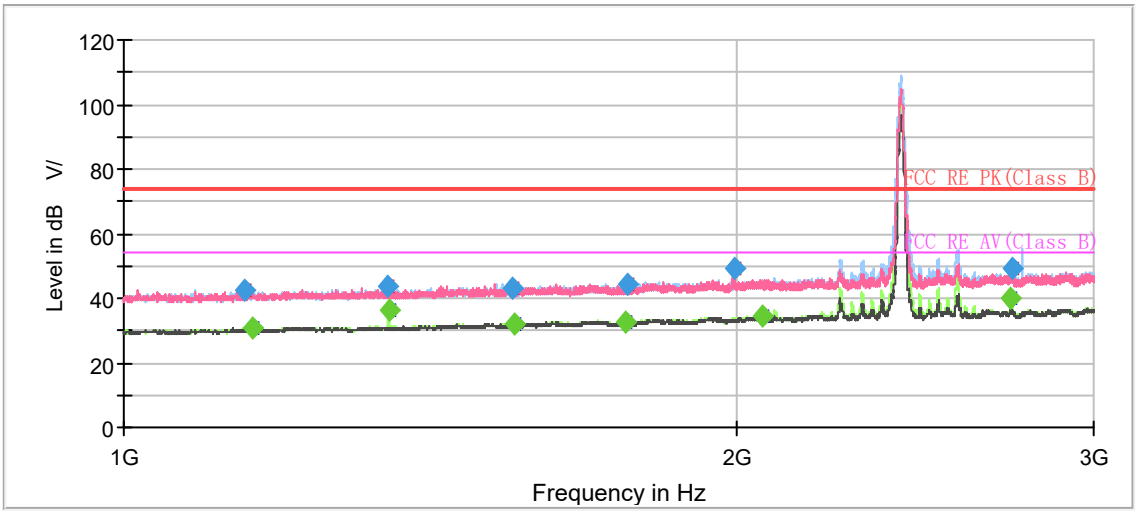
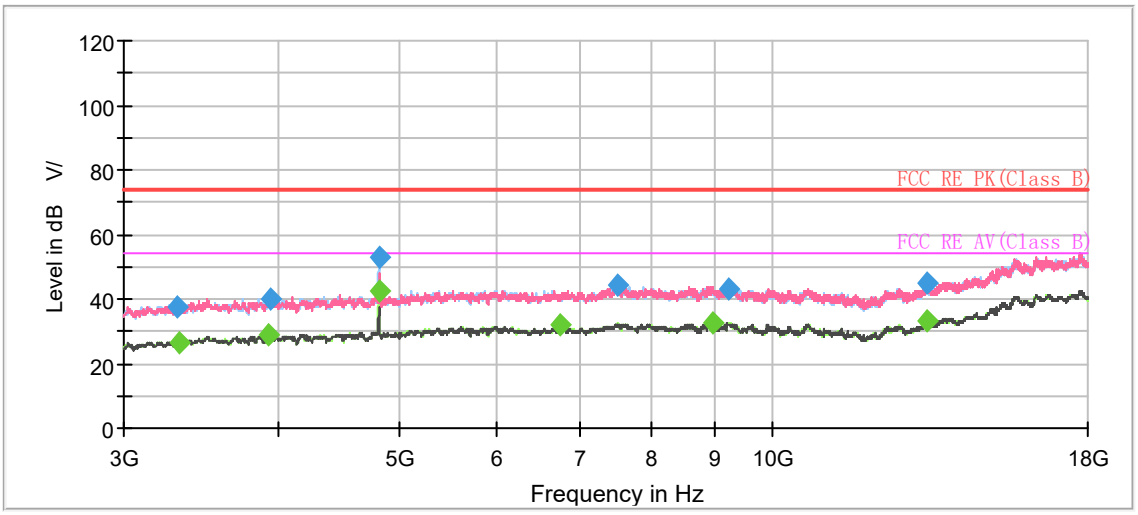
802.11g CH1



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1146.750000	42.47	---	74.00	31.53	500.0	200.0	V	314.0	-7.8
1158.250000	---	30.73	54.00	23.27	500.0	200.0	H	82.0	-7.7
1349.750000	43.51	---	74.00	30.49	500.0	100.0	H	251.0	-6.5
1350.000000	---	36.24	54.00	17.76	500.0	100.0	H	251.0	-6.5
1553.500000	42.94	---	74.00	31.06	500.0	200.0	H	137.0	-5.3
1556.750000	---	31.80	54.00	22.20	500.0	100.0	H	167.0	-5.2
1766.750000	---	32.42	54.00	21.58	500.0	100.0	H	133.0	-4.2
1767.500000	44.16	---	74.00	29.84	500.0	200.0	V	299.0	-4.2
1995.500000	49.23	---	74.00	24.77	500.0	200.0	V	201.0	-3.0
2060.750000	---	34.46	54.00	19.54	500.0	200.0	V	347.0	-2.6
2732.750000	---	39.70	54.00	14.30	500.0	200.0	H	25.0	0.2
2733.500000	49.49	---	74.00	24.51	500.0	200.0	H	30.0	0.3

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

2. Margin = Limit –MAX Peak/ Average

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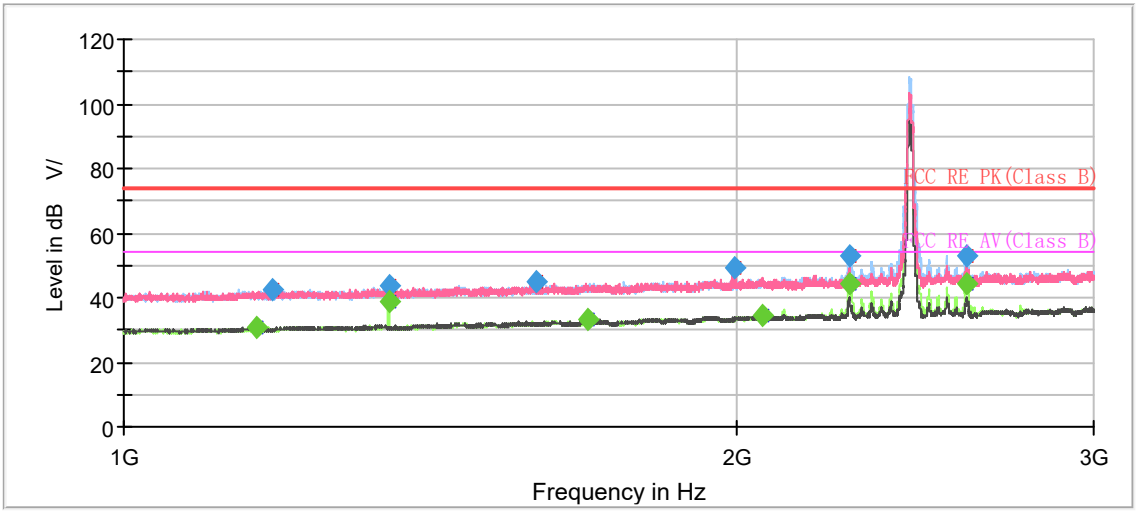
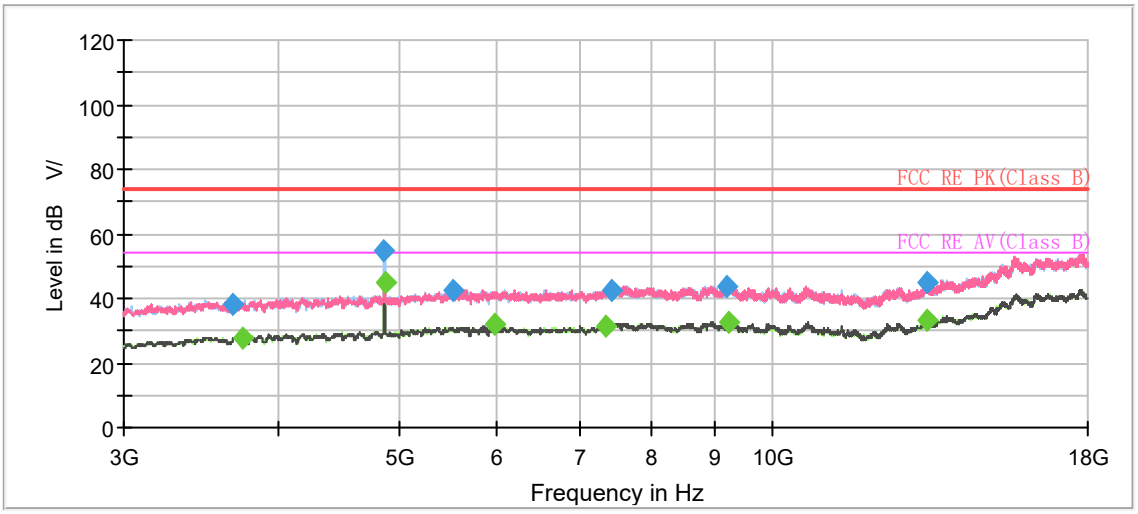
802.11g CH6



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1163.250000	---	30.67	54.00	23.33	500.0	200.0	H	169.0	-7.7
1184.500000	42.50	---	74.00	31.50	500.0	200.0	V	284.0	-7.5
1350.000000	43.92	---	74.00	30.08	500.0	200.0	H	256.0	-6.5
1350.000000	---	38.60	54.00	15.40	500.0	200.0	H	256.0	-6.5
1597.250000	44.77	---	74.00	29.23	500.0	200.0	V	165.0	-5.0
1692.750000	---	33.14	54.00	20.86	500.0	200.0	V	88.0	-4.6
1999.750000	48.95	---	74.00	25.05	500.0	200.0	V	192.0	-3.0
2062.000000	---	34.44	54.00	19.56	500.0	200.0	H	99.0	-2.6
2273.500000	52.84	---	74.00	21.16	500.0	100.0	H	0.0	-1.8
2275.500000	---	44.26	54.00	9.74	500.0	200.0	H	308.0	-1.7
2599.000000	---	44.07	54.00	9.93	500.0	200.0	H	17.0	-0.2
2599.250000	52.72	---	74.00	21.28	500.0	200.0	H	17.0	-0.2

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

2. Margin = Limit –MAX Peak/ Average

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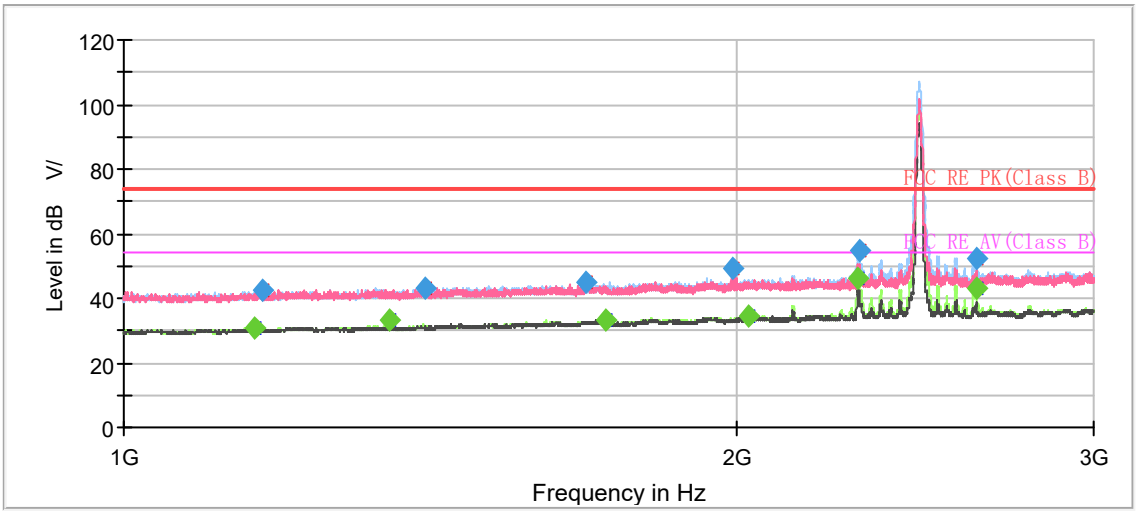
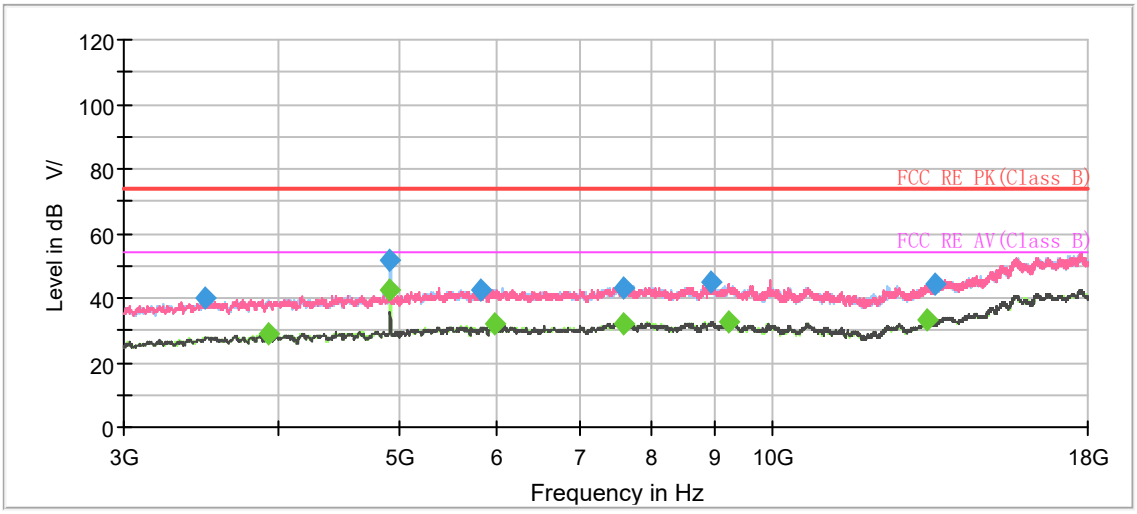
802.11g CH11



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1159.500000	---	30.60	54.00	23.40	500.0	100.0	H	206.0	-7.7
1169.750000	42.52	---	74.00	31.48	500.0	200.0	H	132.0	-7.7
1350.000000	---	33.15	54.00	20.85	500.0	100.0	V	36.0	-6.5
1407.750000	43.10	---	74.00	30.90	500.0	100.0	H	309.0	-6.1
1687.250000	44.64	---	74.00	29.36	500.0	200.0	H	76.0	-4.6
1727.250000	---	33.11	54.00	20.89	500.0	200.0	H	132.0	-4.4
1991.500000	48.93	---	74.00	25.07	500.0	200.0	V	291.0	-3.0
2031.500000	---	34.47	54.00	19.53	500.0	200.0	H	161.0	-2.7
2298.750000	---	46.20	54.00	7.80	500.0	200.0	H	304.0	-1.6
2299.250000	54.79	---	74.00	19.21	500.0	100.0	H	300.0	-1.6
2625.500000	52.43	---	74.00	21.57	500.0	200.0	H	15.0	-0.2
2625.750000	---	43.37	54.00	10.63	500.0	200.0	H	20.0	-0.2

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

2. Margin = Limit –MAX Peak/ Average

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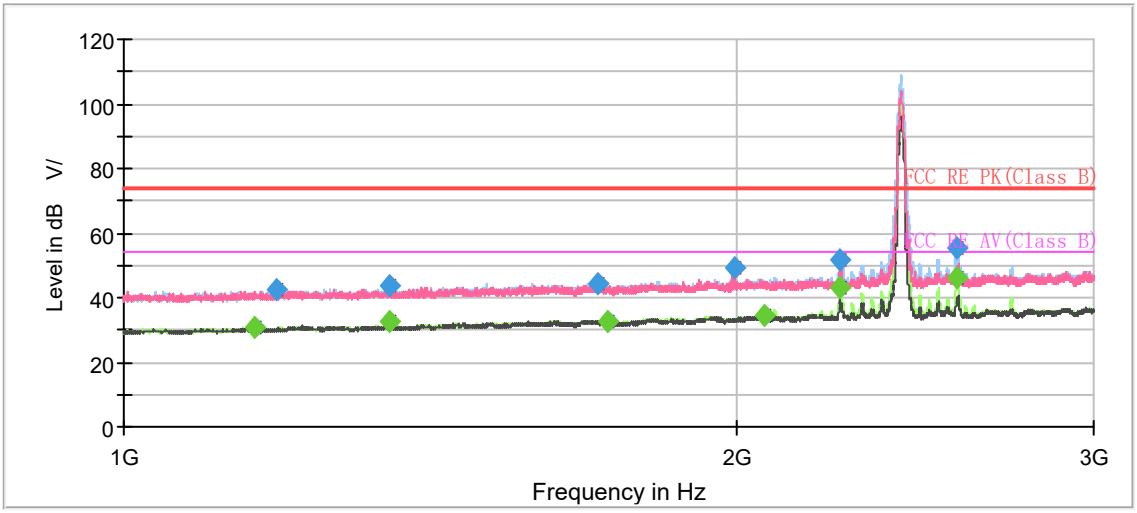
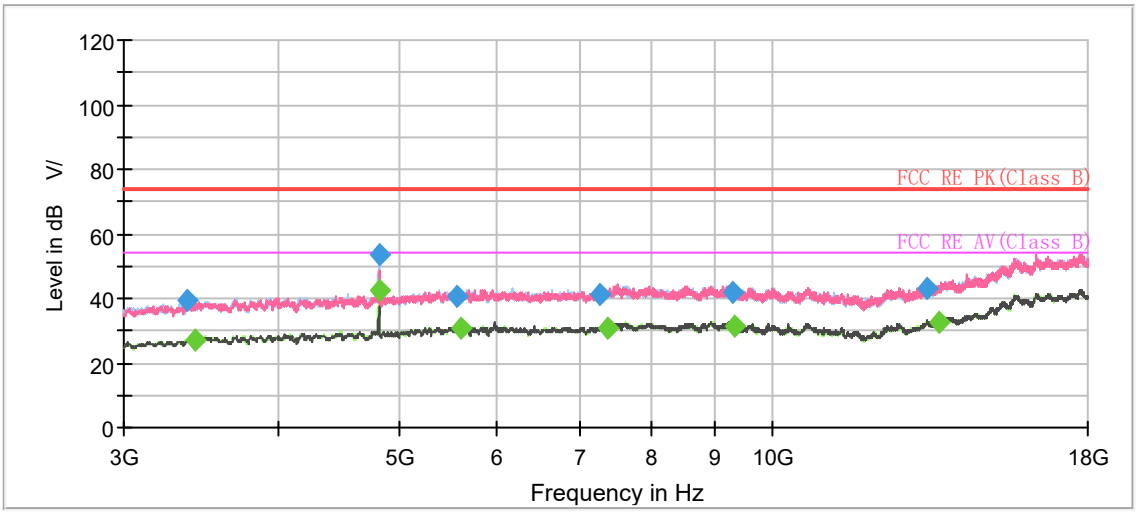
802.11n (HT20) CH1



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1160.250000	---	30.77	54.00	23.23	500.0	200.0	V	344.0	-7.7
1188.500000	42.24	---	74.00	31.76	500.0	200.0	V	326.0	-7.5
1350.000000	---	32.52	54.00	21.48	500.0	100.0	V	47.0	-6.5
1352.250000	43.49	---	74.00	30.51	500.0	200.0	H	94.0	-6.5
1711.000000	44.45	---	74.00	29.55	500.0	200.0	H	113.0	-4.5
1729.250000	---	32.92	54.00	21.08	500.0	200.0	H	108.0	-4.4
1998.000000	48.95	---	74.00	25.05	500.0	100.0	V	215.0	-3.0
2064.500000	---	34.38	54.00	19.62	500.0	100.0	H	197.0	-2.6
2252.500000	---	43.00	54.00	11.00	500.0	100.0	H	352.0	-1.9
2252.750000	51.90	---	74.00	22.10	500.0	100.0	H	0.0	-1.9
2572.000000	---	45.85	54.00	8.15	500.0	200.0	H	14.0	-0.3
2572.000000	55.23	---	74.00	18.77	500.0	200.0	H	14.0	-0.3

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

2. Margin = Limit –MAX Peak/ Average

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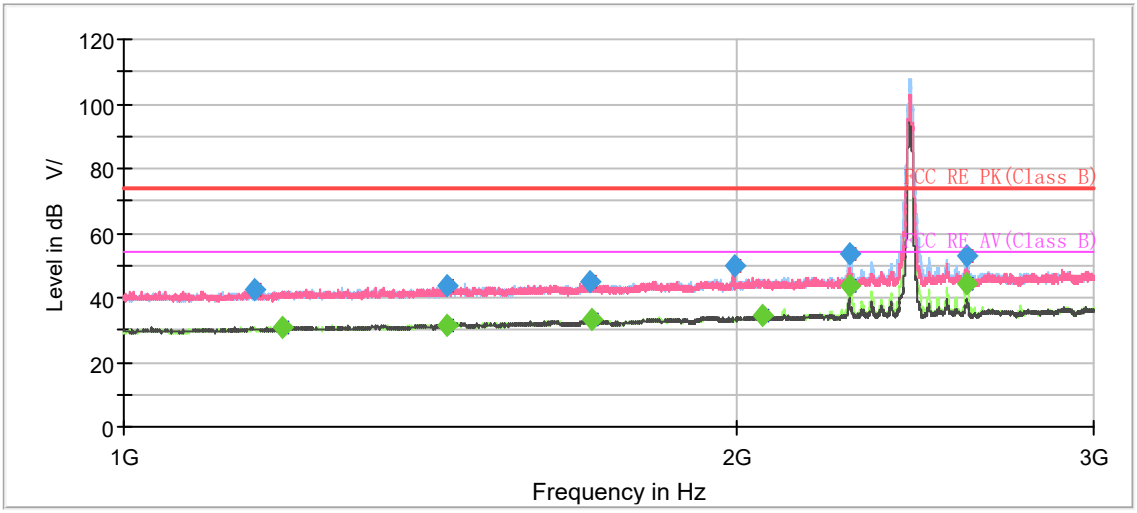
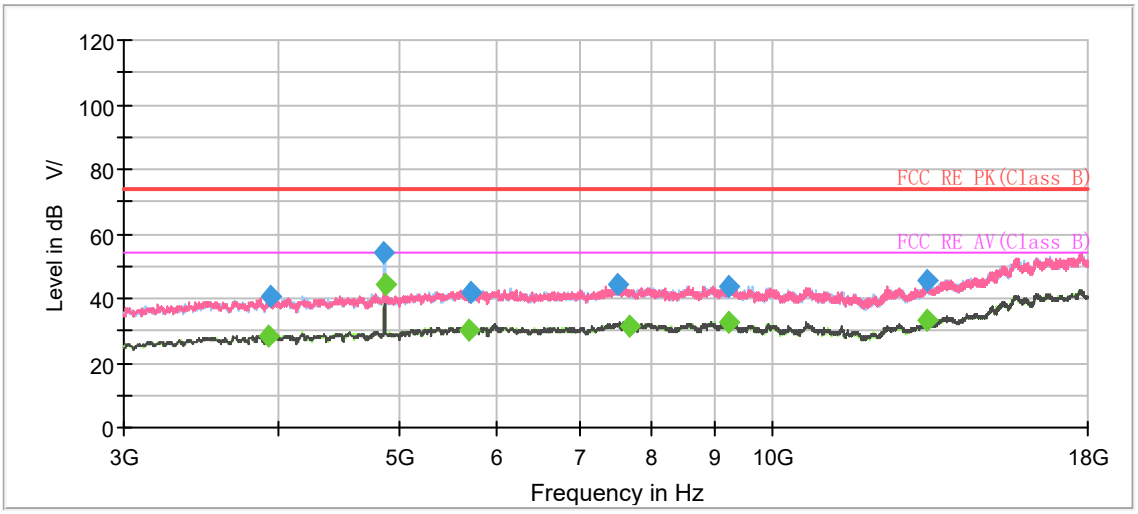
802.11n (HT20) CH6



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1159.750000	42.66	---	74.00	31.34	500.0	100.0	H	140.0	-7.7
1196.250000	---	30.88	54.00	23.12	500.0	200.0	V	194.0	-7.5
1440.750000	---	31.67	54.00	22.33	500.0	100.0	H	182.0	-5.9
1441.500000	43.92	---	74.00	30.08	500.0	200.0	H	232.0	-5.9
1695.250000	44.64	---	74.00	29.36	500.0	200.0	H	128.0	-4.5
1697.500000	---	32.94	54.00	21.06	500.0	100.0	H	260.0	-4.5
1999.500000	49.90	---	74.00	24.10	500.0	200.0	V	171.0	-3.0
2061.500000	---	34.42	54.00	19.58	500.0	200.0	V	100.0	-2.6
2274.750000	53.44	---	74.00	20.56	500.0	100.0	H	359.0	-1.8
2275.250000	---	43.96	54.00	10.04	500.0	100.0	H	298.0	-1.7
2599.000000	---	44.34	54.00	9.66	500.0	200.0	H	17.0	-0.2
2600.500000	53.01	---	74.00	20.99	500.0	200.0	H	17.0	-0.2

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

2. Margin = Limit –MAX Peak/ Average

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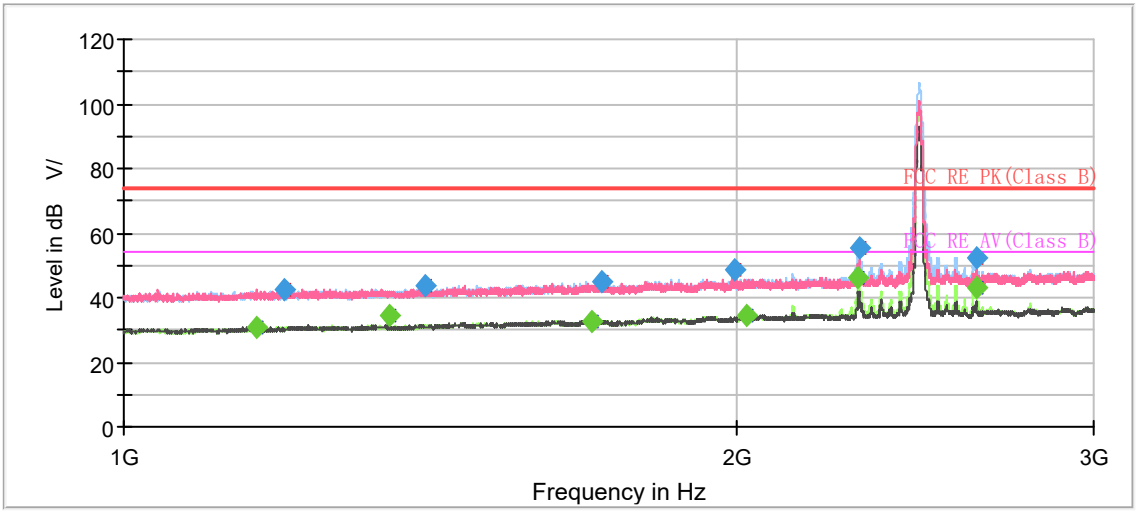
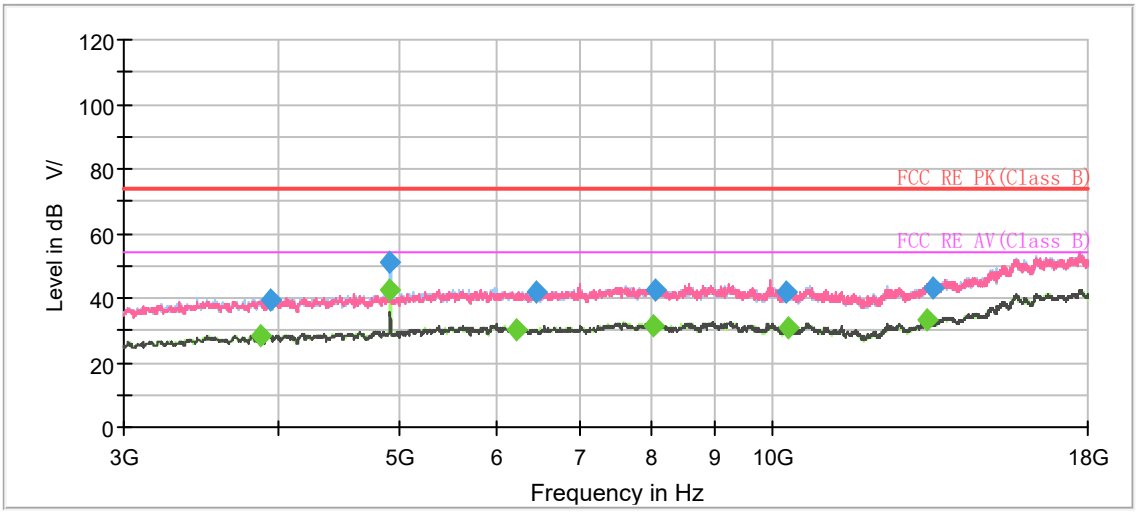
802.11n (HT20) CH11



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1161.500000	---	30.82	54.00	23.18	500.0	200.0	V	82.0	-7.7
1200.000000	42.39	---	74.00	31.61	500.0	200.0	V	29.0	-7.4
1350.000000	---	34.64	54.00	19.36	500.0	200.0	V	208.0	-6.5
1405.750000	43.93	---	74.00	30.07	500.0	100.0	V	229.0	-6.2
1698.250000	---	32.87	54.00	21.13	500.0	200.0	V	6.0	-4.5
1719.750000	45.20	---	74.00	28.80	500.0	100.0	V	72.0	-4.4
1997.250000	48.57	---	74.00	25.43	500.0	200.0	V	124.0	-3.0
2025.250000	---	34.41	54.00	19.59	500.0	100.0	H	125.0	-2.7
2298.500000	---	46.33	54.00	7.67	500.0	200.0	H	301.0	-1.6
2299.000000	55.31	---	74.00	18.69	500.0	200.0	H	301.0	-1.6
2624.750000	52.48	---	74.00	21.52	500.0	200.0	H	0.0	-0.2
2625.250000	---	43.28	54.00	10.72	500.0	200.0	H	11.0	-0.2

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

2. Margin = Limit –MAX Peak/ Average

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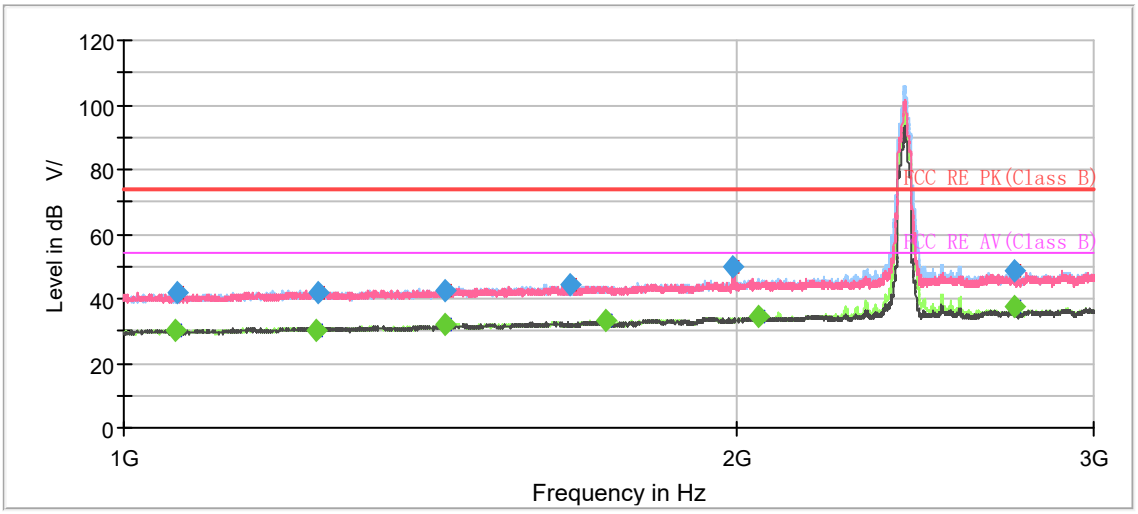
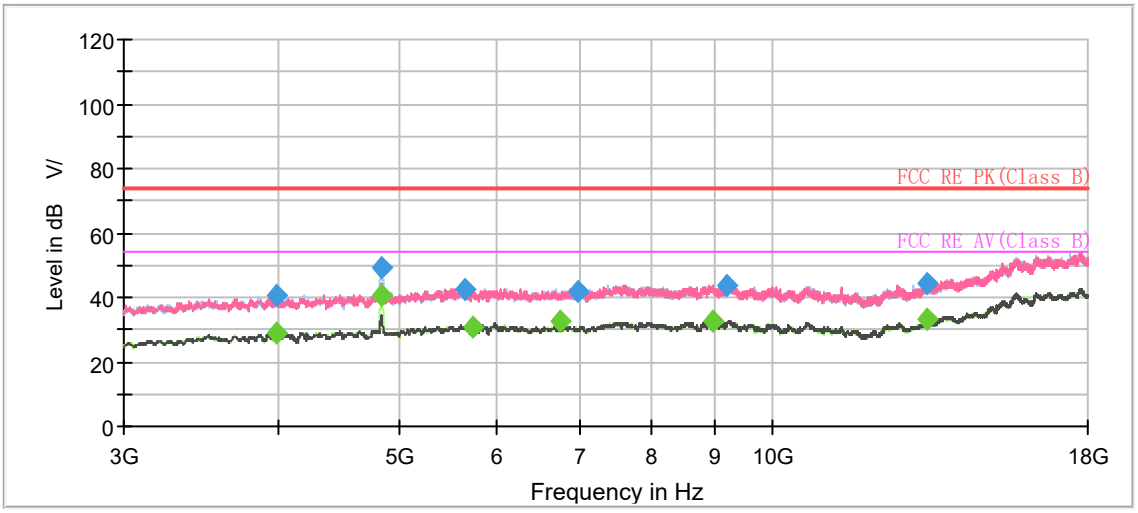
802.11n (HT40) CH3



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1061.250000	---	30.03	54.00	23.97	500.0	200.0	V	30.0	-8.3
1062.500000	41.70	---	74.00	32.30	500.0	200.0	H	228.0	-8.3
1244.250000	---	30.33	54.00	23.67	500.0	200.0	H	303.0	-7.2
1245.000000	41.76	---	74.00	32.24	500.0	200.0	H	80.0	-7.2
1437.750000	---	31.83	54.00	22.17	500.0	200.0	V	85.0	-6.0
1437.750000	42.49	---	74.00	31.51	500.0	200.0	V	85.0	-6.0
1659.000000	44.24	---	74.00	29.76	500.0	200.0	H	237.0	-4.7
1726.500000	---	33.08	54.00	20.92	500.0	200.0	V	1.0	-4.4
1995.250000	49.75	---	74.00	24.25	500.0	200.0	V	94.0	-3.0
2051.250000	---	34.64	54.00	19.36	500.0	200.0	V	109.0	-2.6
2742.000000	48.53	---	74.00	25.47	500.0	200.0	H	25.0	0.3
2743.750000	---	37.53	54.00	16.47	500.0	200.0	H	25.0	0.3

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

2. Margin = Limit –MAX Peak/ Average

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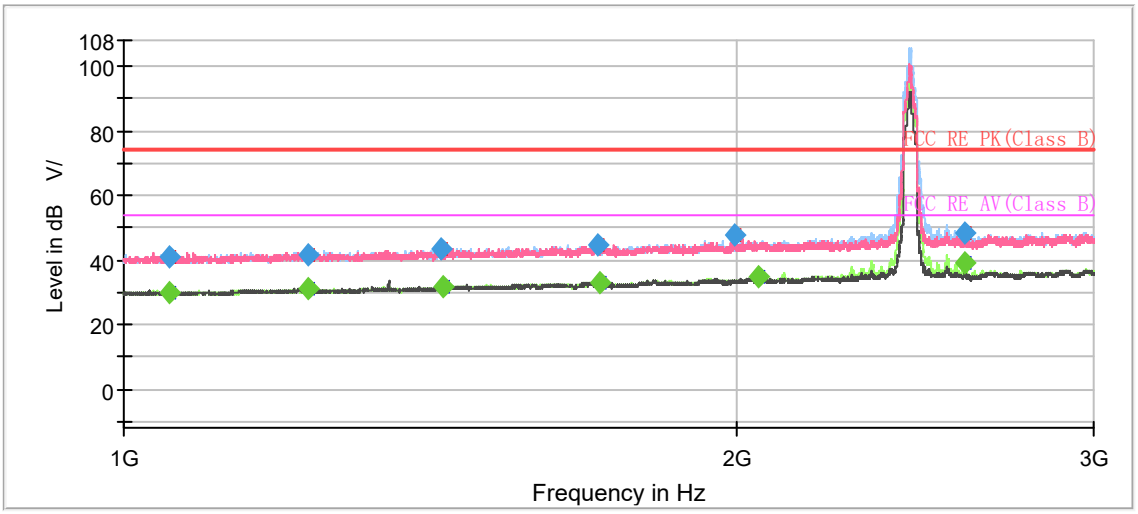
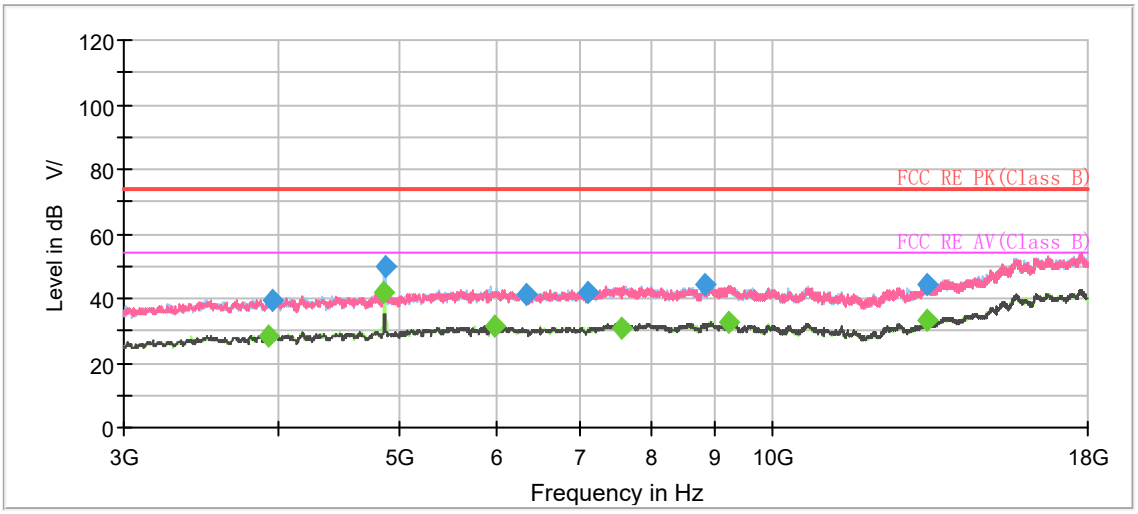
802.11n (HT40) CH6



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1052.750000	---	29.88	54.00	24.12	500.0	200.0	V	87.0	-8.4
1053.250000	41.20	---	74.00	32.80	500.0	100.0	H	120.0	-8.4
1232.000000	41.79	---	74.00	32.21	500.0	200.0	H	105.0	-7.3
1233.500000	---	31.07	54.00	22.93	500.0	200.0	V	144.0	-7.3
1432.000000	43.12	---	74.00	30.88	500.0	200.0	H	214.0	-6.0
1436.000000	---	31.55	54.00	22.45	500.0	200.0	H	133.0	-6.0
1709.750000	44.34	---	74.00	29.66	500.0	200.0	H	186.0	-4.5
1716.500000	---	32.77	54.00	21.23	500.0	200.0	H	262.0	-4.4
1995.500000	47.76	---	74.00	26.24	500.0	200.0	V	176.0	-3.0
2052.500000	---	34.50	54.00	19.50	500.0	100.0	H	275.0	-2.6
2591.750000	48.33	---	74.00	25.67	500.0	200.0	H	356.0	-0.3
2595.000000	---	39.05	54.00	14.95	500.0	200.0	H	10.0	-0.3

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

2. Margin = Limit –MAX Peak/ Average

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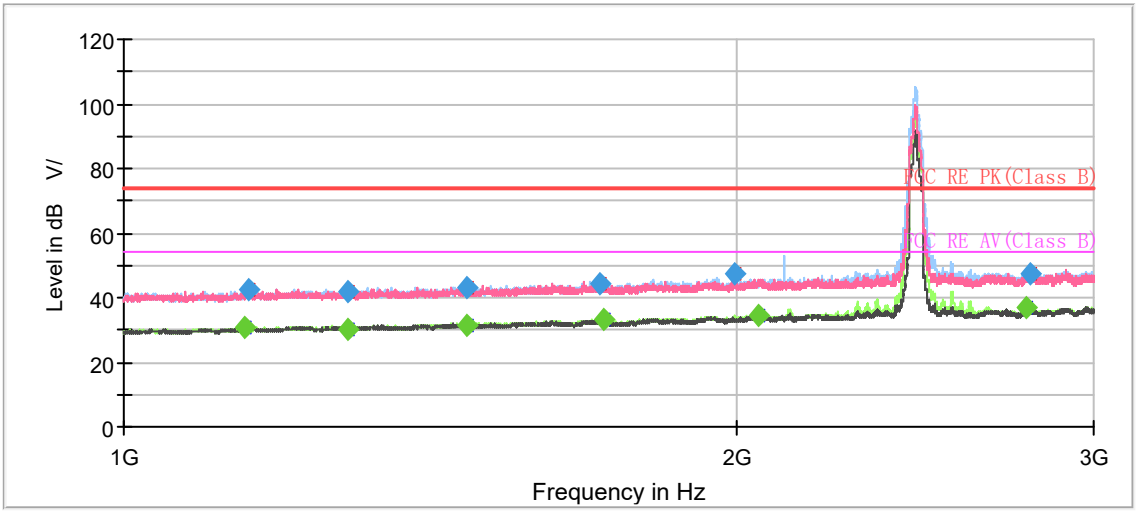
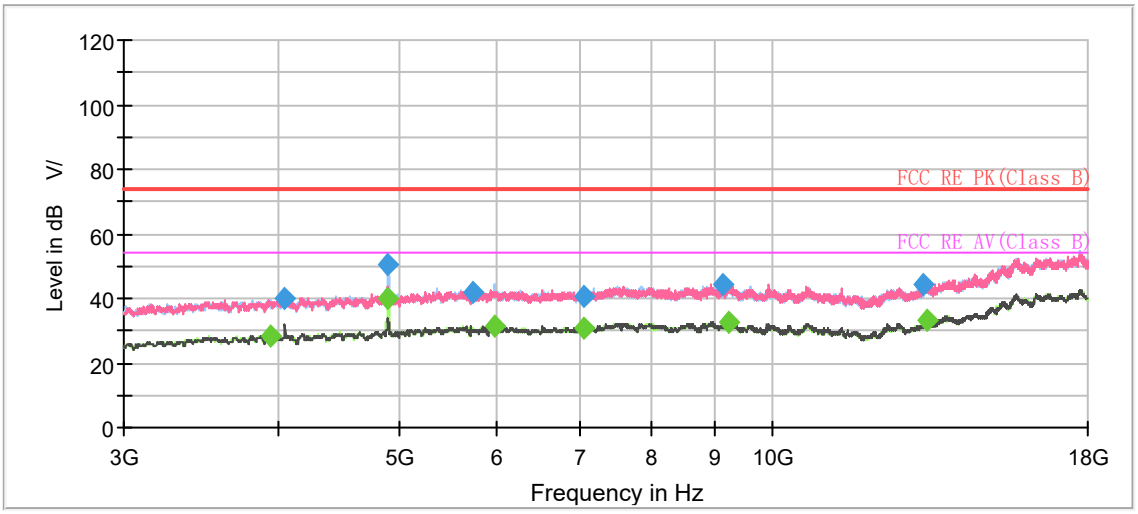
802.11n (HT40) CH9



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1146.750000	---	30.66	54.00	23.34	500.0	100.0	H	336.0	-7.8
1152.250000	42.44	---	74.00	31.56	500.0	200.0	H	100.0	-7.8
1287.750000	42.12	---	74.00	31.88	500.0	100.0	H	294.0	-6.9
1289.000000	---	30.42	54.00	23.58	500.0	200.0	H	271.0	-6.9
1476.250000	---	31.66	54.00	22.34	500.0	200.0	V	325.0	-5.7
1476.250000	43.20	---	74.00	30.80	500.0	100.0	H	281.0	-5.7
1714.000000	44.10	---	74.00	29.90	500.0	200.0	H	90.0	-4.4
1722.000000	---	33.08	54.00	20.92	500.0	200.0	H	48.0	-4.4
1995.750000	47.40	---	74.00	26.60	500.0	200.0	V	321.0	-3.0
2053.750000	---	34.32	54.00	19.68	500.0	200.0	H	141.0	-2.6
2777.750000	---	36.99	54.00	17.01	500.0	100.0	H	1.0	0.4
2792.000000	47.16	---	74.00	26.84	500.0	200.0	H	52.0	0.4

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

2. Margin = Limit –MAX Peak/ Average

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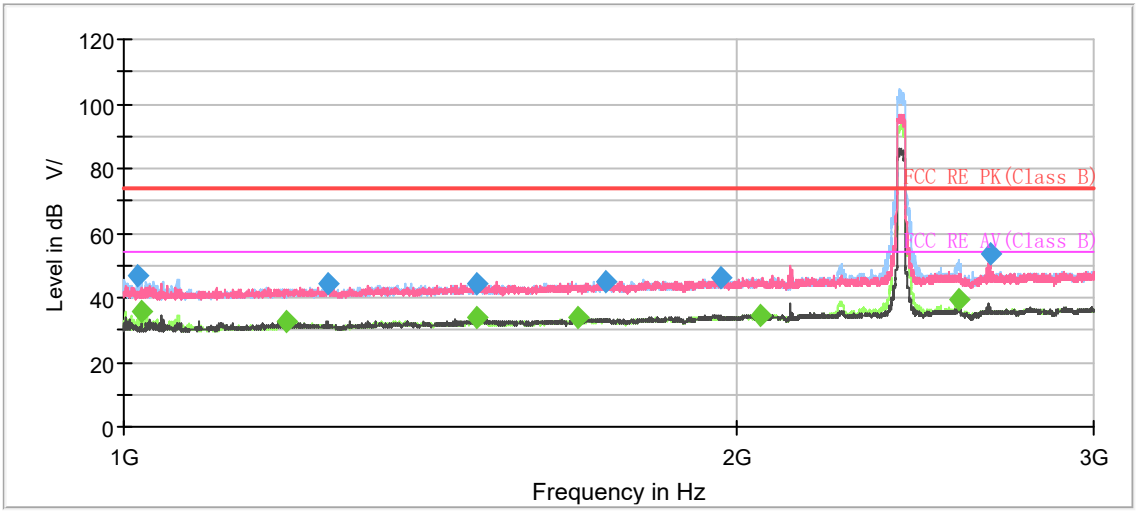
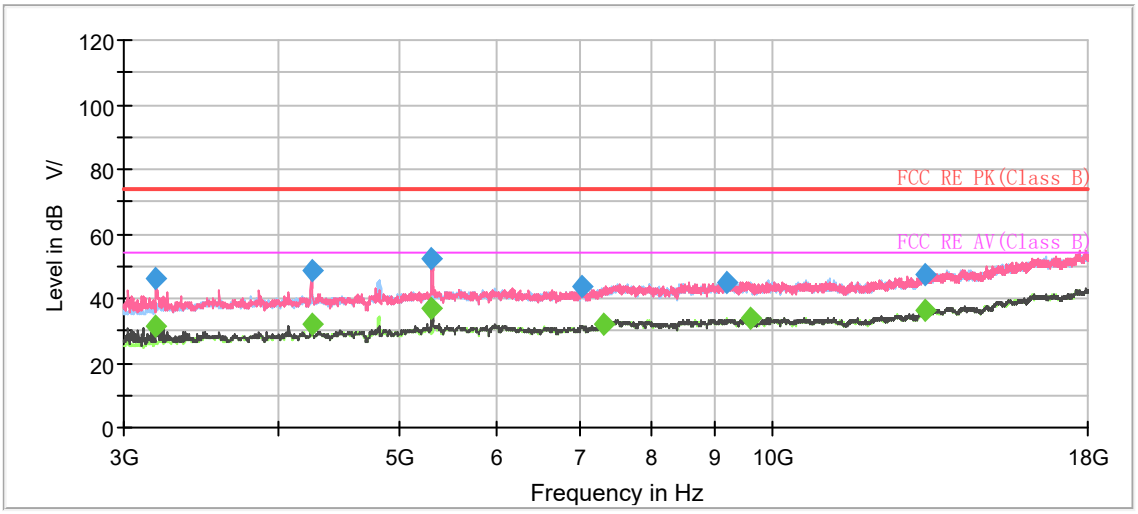
802.11ax (HE20) CH1



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1014.750000	46.58	---	74.00	27.42	500.0	100.0	H	251.0	-8.7
1020.000000	---	35.78	54.00	18.22	500.0	100.0	H	227.0	-8.7
1201.500000	---	32.87	54.00	21.13	500.0	200.0	V	158.0	-7.4
1259.000000	44.42	---	74.00	29.58	500.0	200.0	V	158.0	-7.1
1490.250000	---	33.57	54.00	20.43	500.0	200.0	V	139.0	-5.6
1490.250000	44.51	---	74.00	29.49	500.0	200.0	V	139.0	-5.6
1674.250000	---	33.92	54.00	20.08	500.0	200.0	V	167.0	-4.6
1727.500000	44.95	---	74.00	29.05	500.0	200.0	V	257.0	-4.4
1965.500000	46.36	---	74.00	27.64	500.0	200.0	H	173.0	-3.1
2054.750000	---	34.47	54.00	19.53	500.0	200.0	V	332.0	-2.6
2575.500000	---	39.62	54.00	14.38	500.0	100.0	H	260.0	-0.3
2667.250000	53.59	---	74.00	20.41	500.0	200.0	V	120.0	0.0

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

2. Margin = Limit –MAX Peak/ Average

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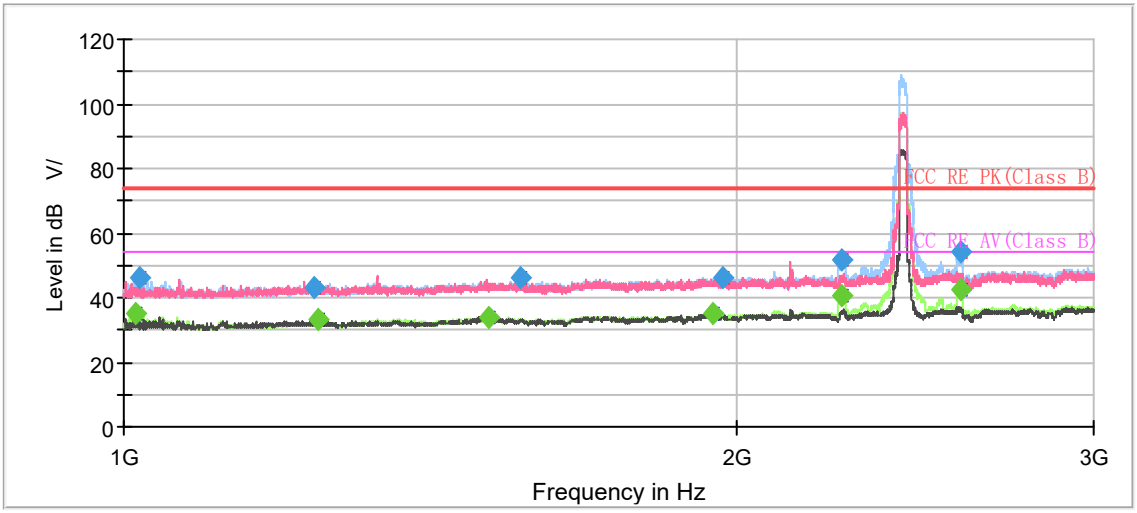
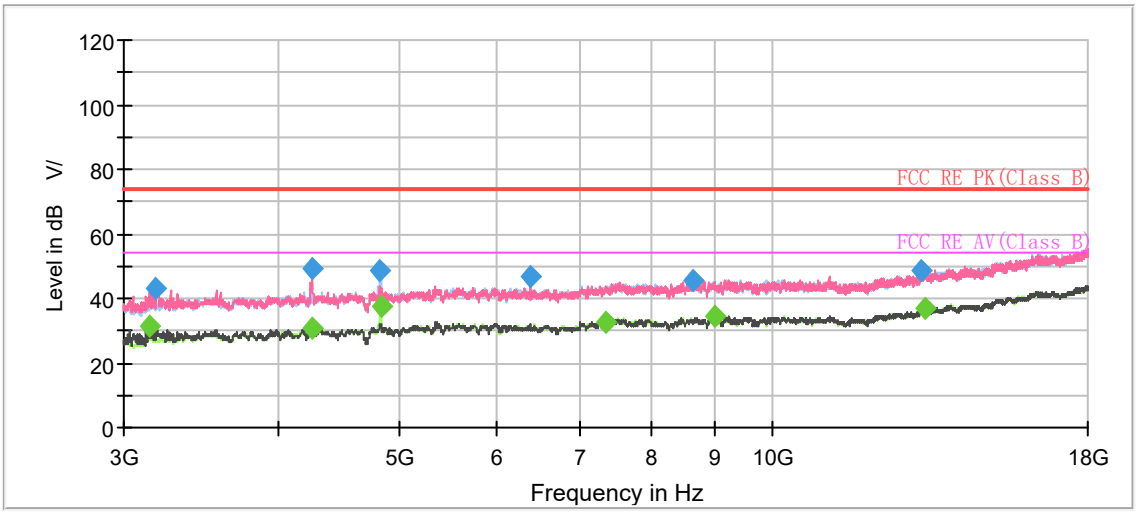
802.11ax (HE20) CH2



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1014.500000	---	34.89	54.00	19.11	500.0	100.0	H	219.0	-8.7
1018.500000	46.03	---	74.00	27.97	500.0	200.0	H	125.0	-8.7
1241.750000	43.34	---	74.00	30.66	500.0	200.0	V	180.0	-7.2
1245.250000	---	33.24	54.00	20.76	500.0	200.0	V	269.0	-7.2
1512.250000	---	34.14	54.00	19.86	500.0	200.0	V	167.0	-5.5
1568.500000	46.02	---	74.00	27.98	500.0	100.0	V	0.0	-5.2
1947.000000	---	34.92	54.00	19.08	500.0	100.0	H	219.0	-3.2
1973.000000	46.18	---	74.00	27.82	500.0	200.0	H	0.0	-3.1
2255.500000	51.72	---	74.00	22.28	500.0	200.0	H	208.0	-1.9
2256.000000	---	40.87	54.00	13.13	500.0	200.0	H	208.0	-1.9
2581.750000	---	42.46	54.00	11.54	500.0	200.0	H	183.0	-0.3
2582.250000	54.11	---	74.00	19.89	500.0	200.0	H	192.0	-0.3

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

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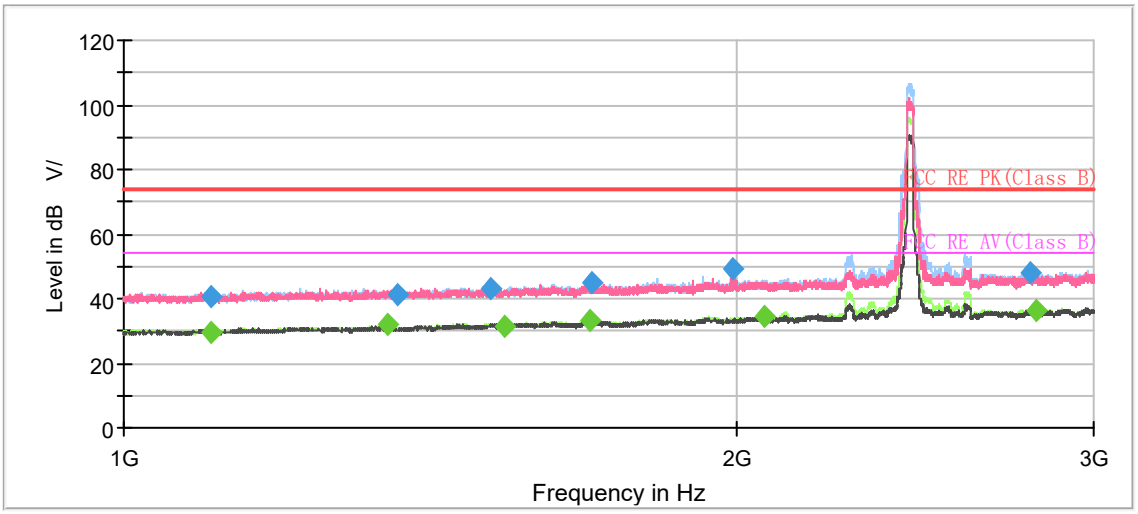
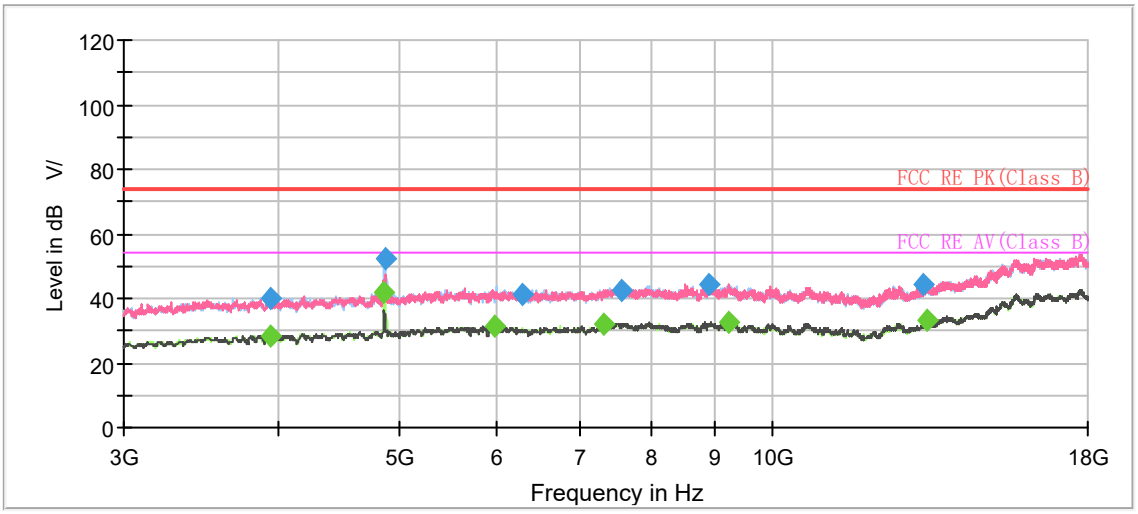
802.11ax (HE20) CH6



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1103.000000	40.88	---	74.00	33.12	500.0	100.0	H	318.0	-8.1
1105.000000	---	29.73	54.00	24.27	500.0	200.0	H	67.0	-8.1
1349.750000	---	32.25	54.00	21.75	500.0	200.0	H	86.0	-6.5
1362.000000	41.15	---	74.00	32.85	500.0	200.0	H	30.0	-6.5
1515.750000	43.20	---	74.00	30.80	500.0	200.0	H	34.0	-5.5
1539.500000	---	31.62	54.00	22.38	500.0	200.0	H	125.0	-5.3
1693.750000	---	33.10	54.00	20.90	500.0	200.0	V	279.0	-4.6
1699.250000	45.16	---	74.00	28.84	500.0	200.0	H	43.0	-4.5
1994.500000	49.36	---	74.00	24.64	500.0	200.0	V	235.0	-3.0
2064.250000	---	34.53	54.00	19.47	500.0	100.0	H	265.0	-2.6
2790.500000	47.99	---	74.00	26.01	500.0	200.0	V	279.0	0.4
2808.000000	---	36.31	54.00	17.69	500.0	100.0	H	115.0	0.5

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

2. Margin = Limit –MAX Peak/ Average

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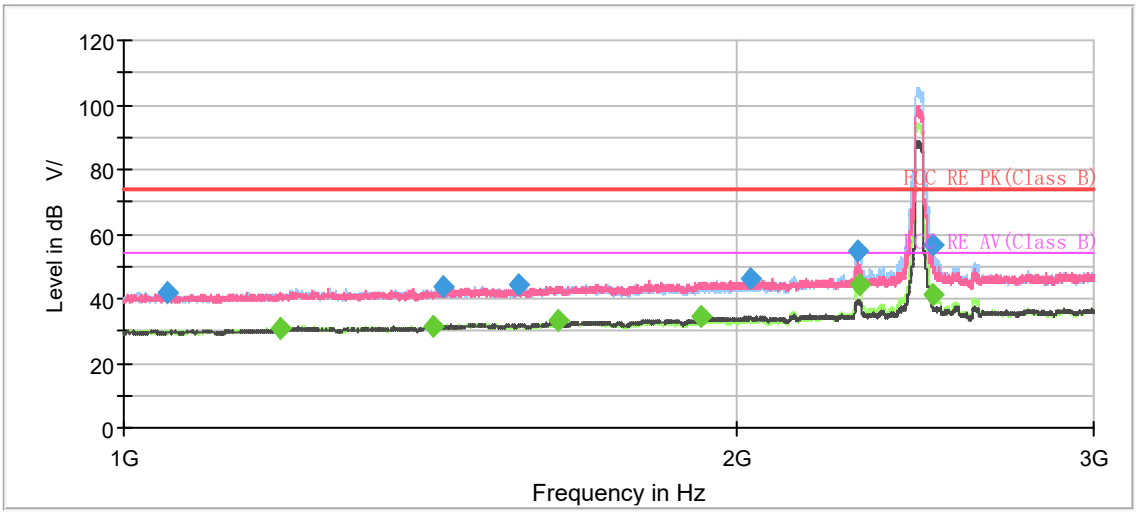
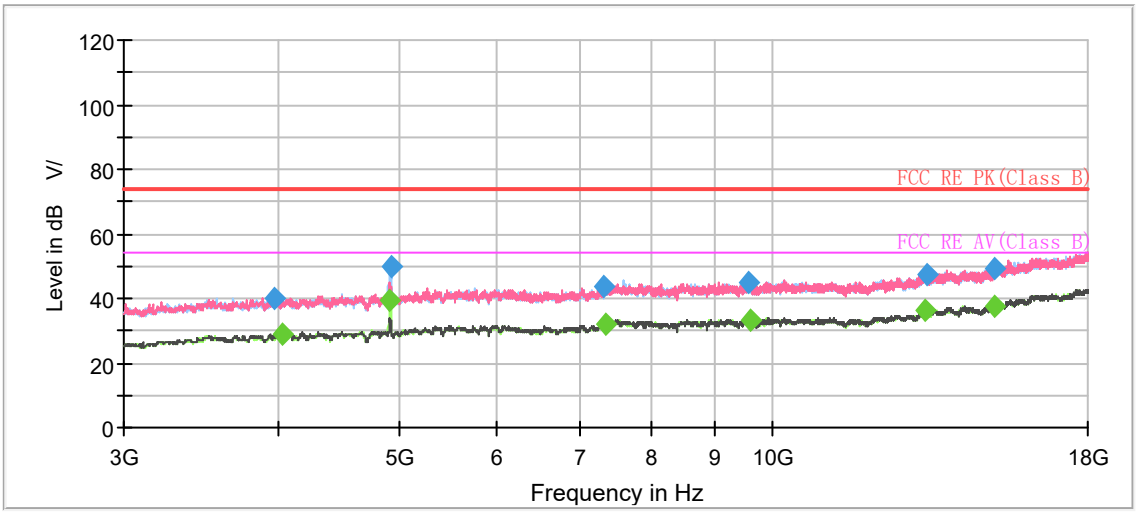
802.11ax (HE20) CH11



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1051.750000	41.85	---	74.00	32.15	500.0	100.0	V	0.0	-8.4
1195.250000	---	30.68	54.00	23.32	500.0	100.0	H	337.0	-7.5
1418.500000	---	31.58	54.00	22.42	500.0	100.0	V	66.0	-6.1
1434.250000	43.62	---	74.00	30.38	500.0	100.0	V	60.0	-6.0
1564.750000	44.34	---	74.00	29.66	500.0	200.0	V	152.0	-5.2
1635.750000	---	33.01	54.00	20.99	500.0	200.0	V	152.0	-4.9
1923.000000	---	34.32	54.00	19.68	500.0	100.0	V	77.0	-3.3
2032.250000	45.95	---	74.00	28.05	500.0	100.0	V	38.0	-2.7
2298.750000	54.70	---	74.00	19.30	500.0	100.0	H	315.0	-1.6
2299.750000	---	44.02	54.00	9.98	500.0	200.0	H	227.0	-1.6
2499.500000	---	41.11	54.00	12.89	500.0	100.0	H	315.0	-0.6
2502.500000	56.73	---	74.00	17.27	500.0	200.0	H	222.0	-0.6

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

2. Margin = Limit –MAX Peak/ Average

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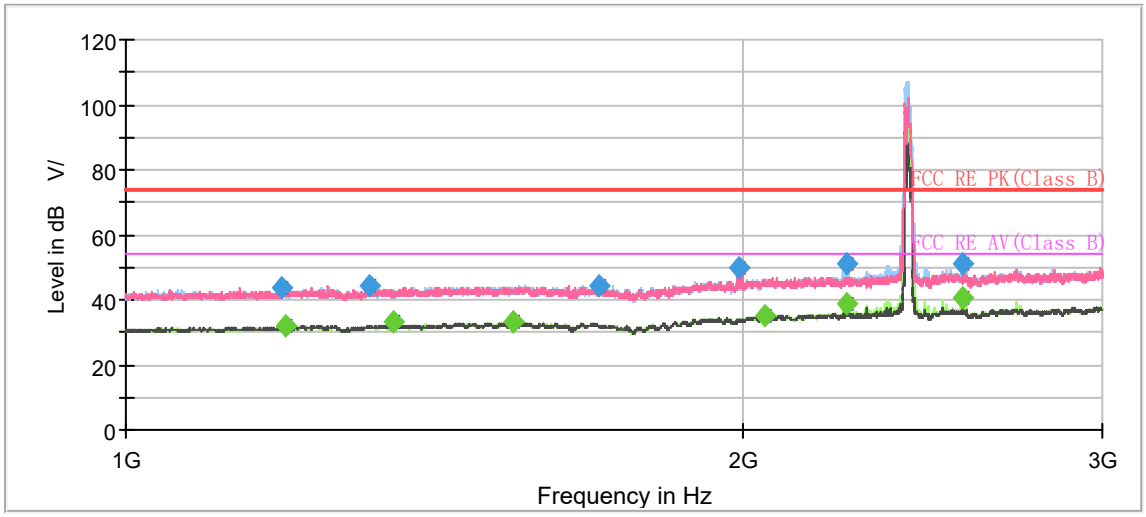
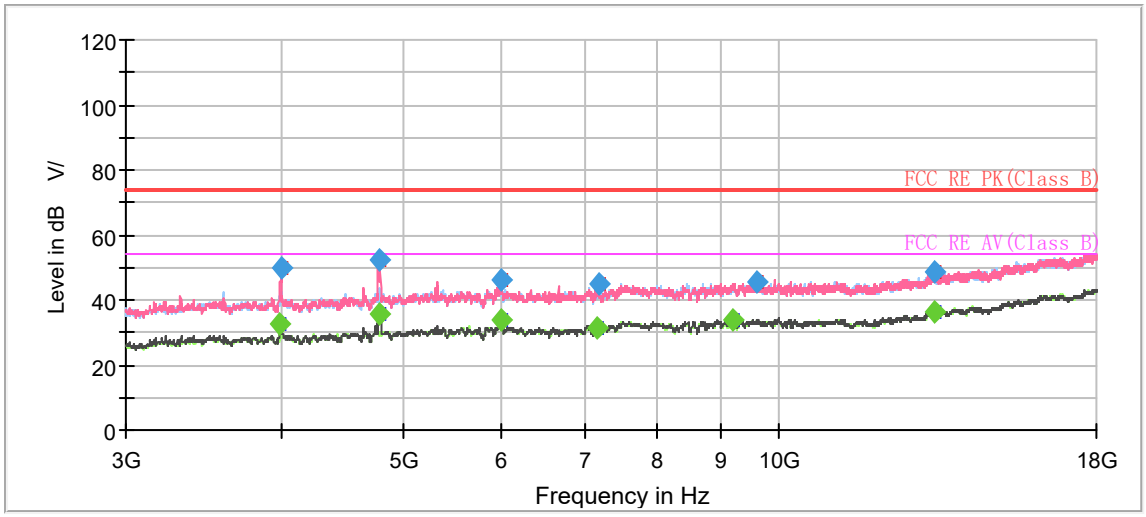
26-Tones
802.11ax (HE20) CH1



Radiated Emission from 1GHz to 3GHz



Radiated Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1190.250000	43.66	---	74.00	30.34	500.0	100.0	H	285.0	-7.5
1197.500000	---	31.78	54.00	22.22	500.0	100.0	H	15.0	-7.5
1314.750000	44.60	---	74.00	29.40	500.0	100.0	V	359.0	-6.8
1350.000000	---	32.96	54.00	21.04	500.0	200.0	H	137.0	-6.5
1547.000000	---	33.00	54.00	21.00	500.0	200.0	V	162.0	-5.3
1705.000000	44.59	---	74.00	29.41	500.0	200.0	H	209.0	-4.5
1991.750000	50.03	---	74.00	23.97	500.0	100.0	V	203.0	-3.0
2053.250000	---	35.18	54.00	18.82	500.0	100.0	V	350.0	-2.6
2252.000000	---	38.68	54.00	15.32	500.0	100.0	H	275.0	-1.9
2252.000000	51.25	---	74.00	22.75	500.0	100.0	H	275.0	-1.9
2564.500000	51.20	---	74.00	22.80	500.0	100.0	H	91.0	-0.3
2565.000000	---	40.72	54.00	13.28	500.0	100.0	H	91.0	-0.3

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

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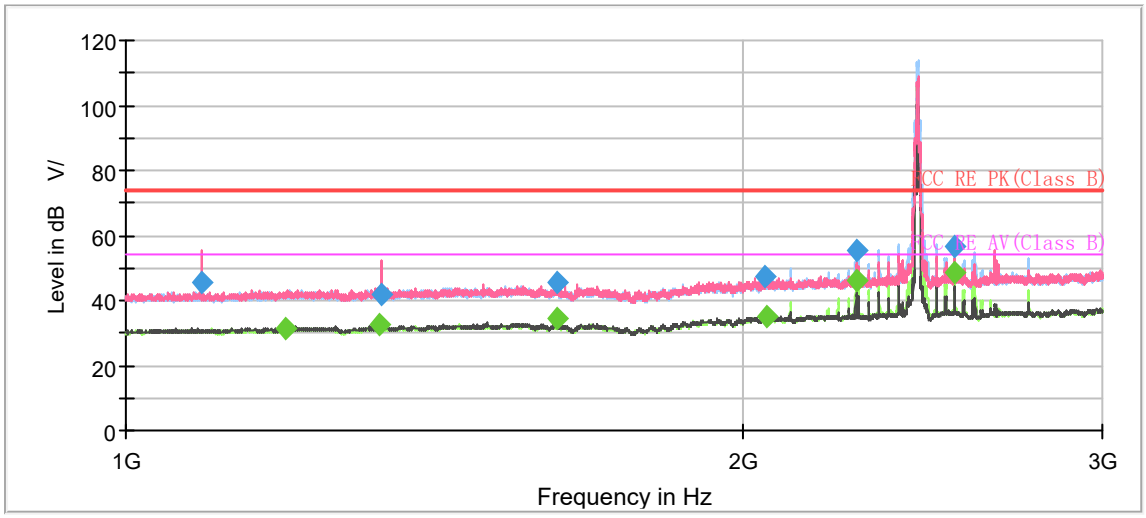
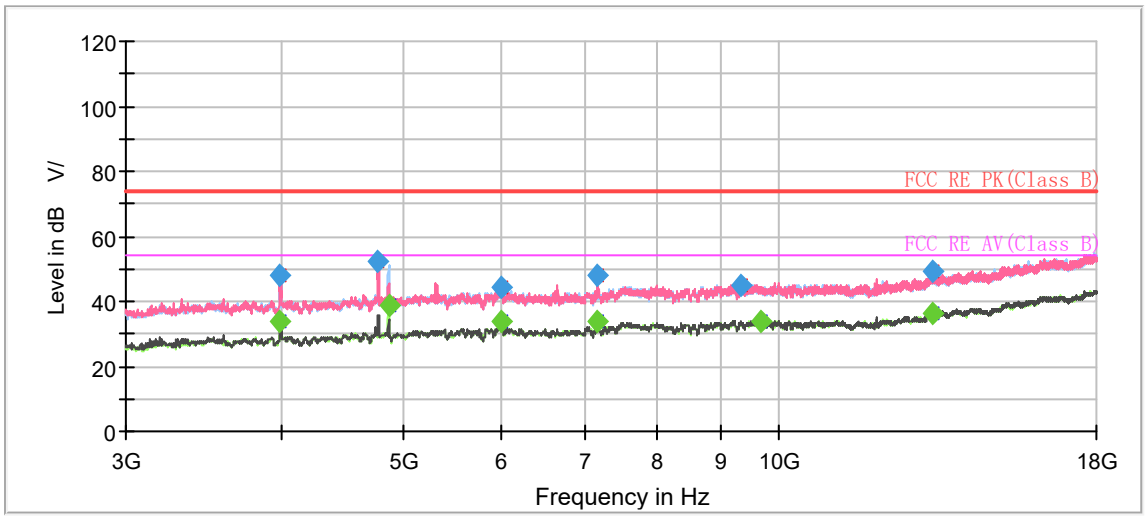
802.11ax (HE20) CH6



Radiated Emission from 1GHz to 3GHz



Radiated Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1088.750000	45.34	---	74.00	28.66	500.0	200.0	V	122.0	-8.2
1196.750000	---	31.68	54.00	22.32	500.0	200.0	V	339.0	-7.5
1331.500000	---	32.41	54.00	21.59	500.0	100.0	V	175.0	-6.7
1332.250000	42.08	---	74.00	31.92	500.0	200.0	V	167.0	-6.7
1624.750000	---	34.65	54.00	19.35	500.0	100.0	H	298.0	-4.9
1625.500000	45.57	---	74.00	28.43	500.0	100.0	H	303.0	-4.9
2054.500000	47.35	---	74.00	26.65	500.0	100.0	H	45.0	-2.6
2055.750000	---	35.08	54.00	18.92	500.0	100.0	H	353.0	-2.6
2275.500000	---	45.85	54.00	8.15	500.0	100.0	H	298.0	-1.7
2275.500000	55.53	---	74.00	18.47	500.0	100.0	H	298.0	-1.7
2540.000000	56.42	---	74.00	17.58	500.0	200.0	H	136.0	-0.4
2540.250000	---	48.73	54.00	5.27	500.0	100.0	H	145.0	-0.4

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

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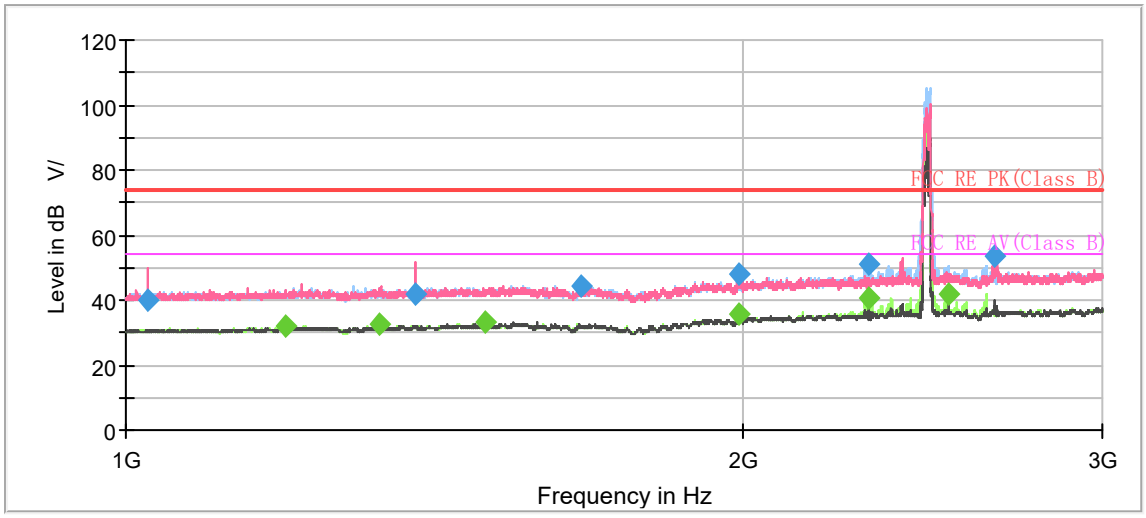
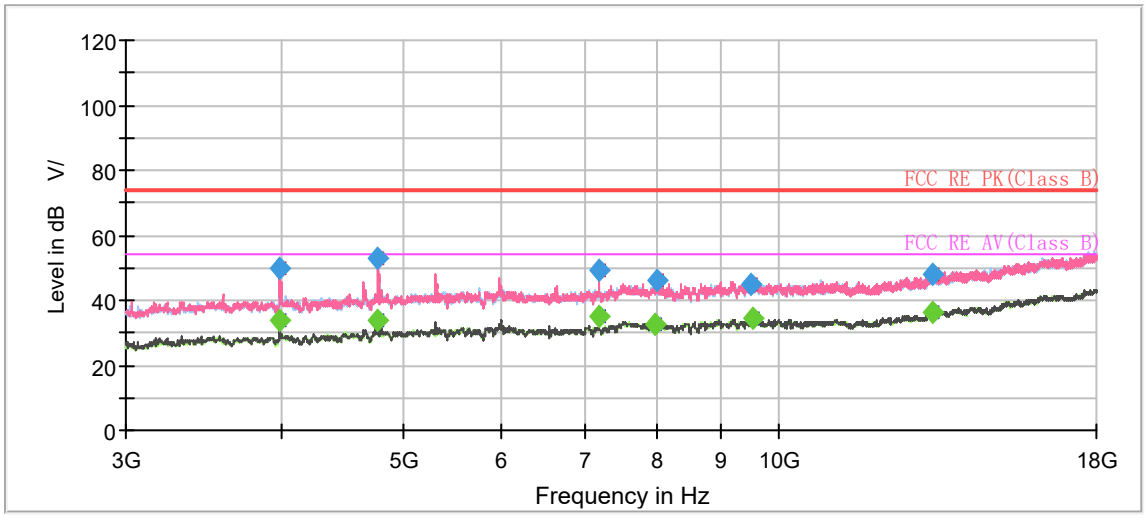
802.11ax (HE20) CH11



Radiated Emission from 1GHz to 3GHz



Radiated Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1024.750000	39.72	---	74.00	34.28	500.0	200.0	V	12.0	-8.6
1197.500000	---	31.87	54.00	22.13	500.0	200.0	H	296.0	-7.5
1330.750000	---	32.56	54.00	21.44	500.0	100.0	H	139.0	-6.7
1384.750000	41.61	---	74.00	32.39	500.0	200.0	V	170.0	-6.3
1497.000000	---	33.47	54.00	20.53	500.0	200.0	V	156.0	-5.6
1667.250000	44.50	---	74.00	29.50	500.0	200.0	V	30.0	-4.7
1991.750000	47.92	---	74.00	26.08	500.0	100.0	V	151.0	-3.0
1991.750000	---	35.75	54.00	18.25	500.0	100.0	V	151.0	-3.0
2306.250000	---	40.52	54.00	13.48	500.0	200.0	H	0.0	-1.6
2306.750000	51.20	---	74.00	22.80	500.0	100.0	H	153.0	-1.6
2522.250000	---	41.91	54.00	12.09	500.0	100.0	H	143.0	-0.5
2659.000000	53.82	---	74.00	20.18	500.0	200.0	V	180.0	-0.1

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

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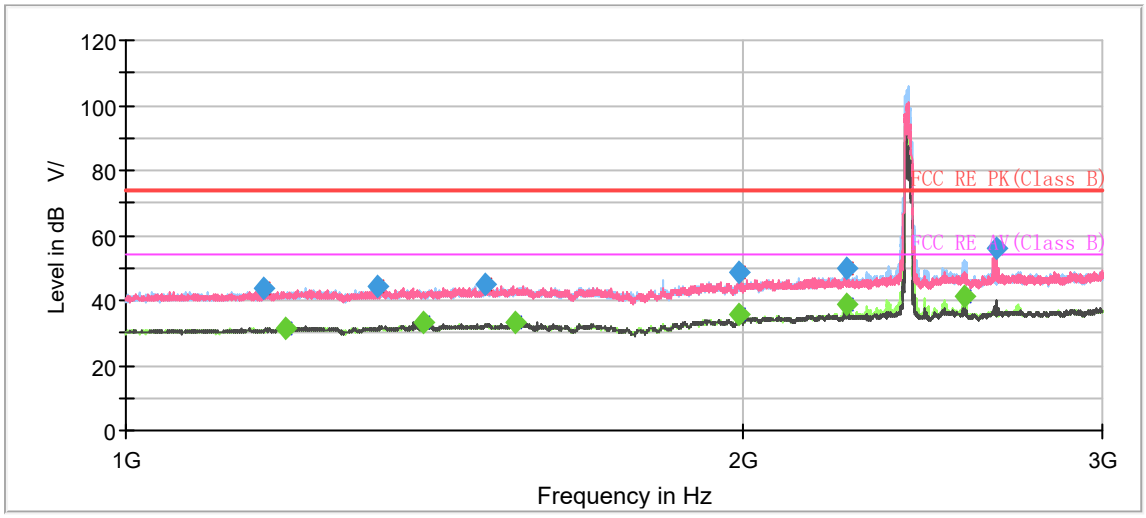
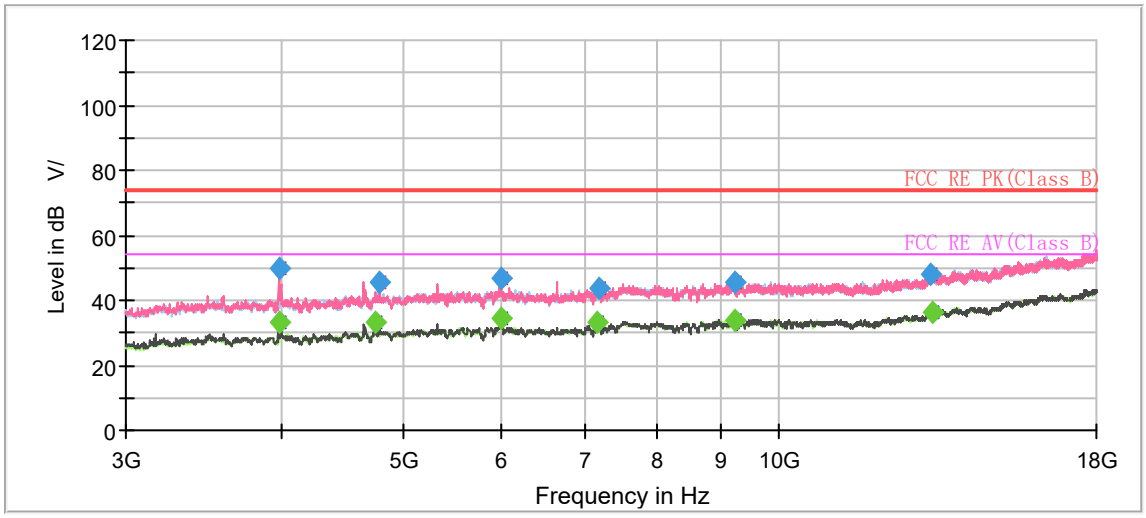
52-Tones
802.11ax (HE20) CH1



Radiated Emission from 1GHz to 3GHz



Radiated Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1167.750000	43.43	---	74.00	30.57	500.0	100.0	H	102.0	-7.7
1196.500000	---	31.43	54.00	22.57	500.0	100.0	V	222.0	-7.5
1327.250000	44.48	---	74.00	29.52	500.0	100.0	V	176.0	-6.7
1396.500000	---	33.02	54.00	20.98	500.0	200.0	V	187.0	-6.2
1497.500000	44.69	---	74.00	29.31	500.0	200.0	H	151.0	-5.5
1551.000000	---	33.17	54.00	20.83	500.0	200.0	V	313.0	-5.3
1992.750000	48.54	---	74.00	25.46	500.0	200.0	V	140.0	-3.0
1992.750000	---	35.77	54.00	18.23	500.0	200.0	V	140.0	-3.0
2252.250000	49.69	---	74.00	24.31	500.0	200.0	H	298.0	-1.9
2252.250000	---	38.80	54.00	15.20	500.0	200.0	H	298.0	-1.9
2566.500000	---	41.22	54.00	12.78	500.0	100.0	H	102.0	-0.3
2665.500000	56.07	---	74.00	17.93	500.0	200.0	V	168.0	0.0

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

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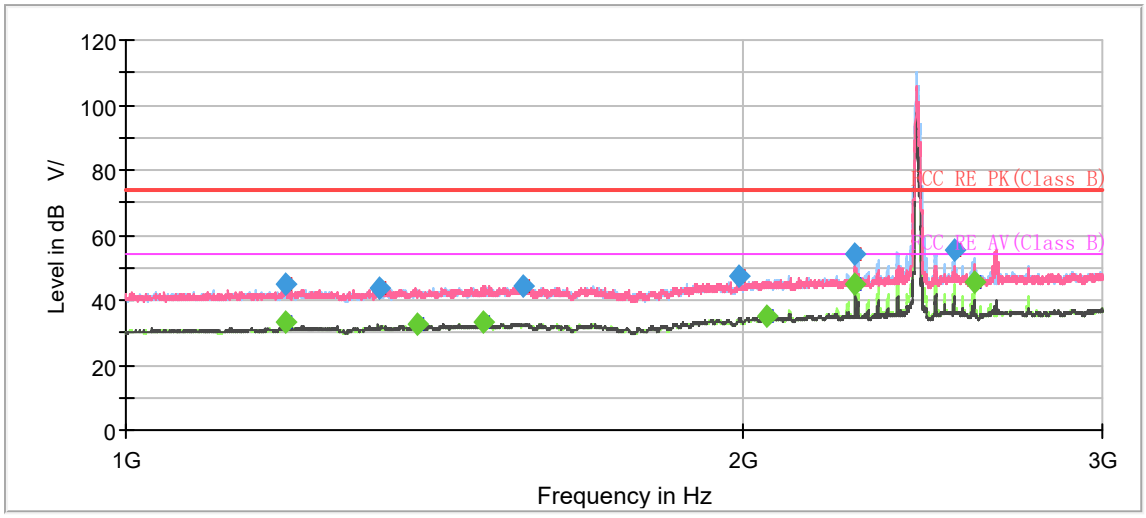
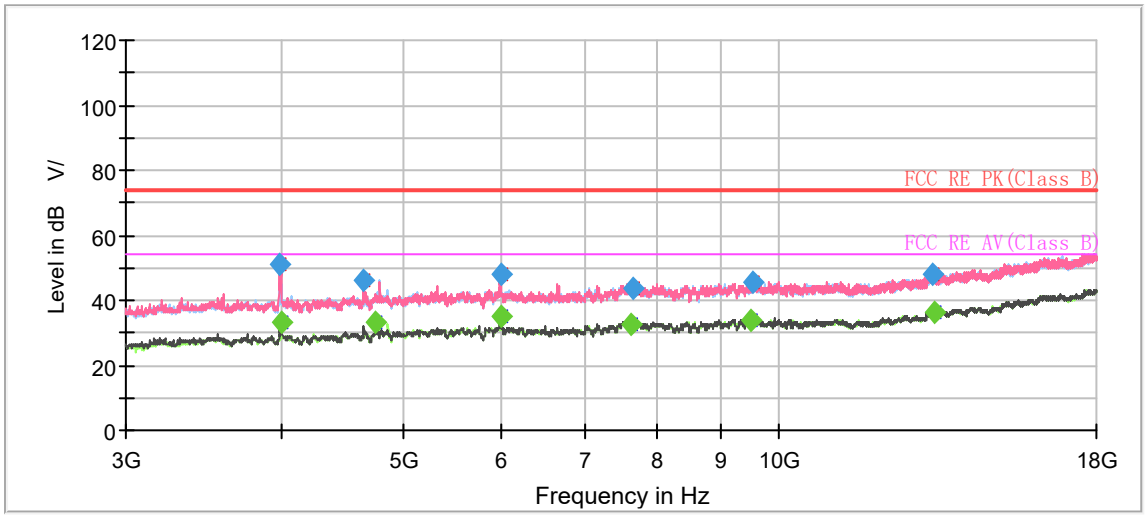
802.11ax (HE20) CH6



Radiated Emission from 1GHz to 3GHz



Radiated Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.000000	45.20	---	74.00	28.80	500.0	200.0	V	205.0	-7.5
1196.500000	---	33.37	54.00	20.63	500.0	200.0	V	205.0	-7.5
1329.250000	43.80	---	74.00	30.20	500.0	100.0	H	174.0	-6.7
1389.250000	---	32.40	54.00	21.60	500.0	100.0	H	64.0	-6.3
1496.000000	---	33.44	54.00	20.56	500.0	200.0	V	155.0	-5.6
1564.750000	44.57	---	74.00	29.43	500.0	100.0	V	332.0	-5.2
1992.750000	47.11	---	74.00	26.89	500.0	100.0	V	150.0	-3.0
2055.750000	---	34.81	54.00	19.19	500.0	200.0	V	151.0	-2.6
2272.750000	---	44.93	54.00	9.07	500.0	100.0	H	288.0	-1.8
2273.000000	54.04	---	74.00	19.96	500.0	100.0	H	288.0	-1.8
2539.000000	55.32	---	74.00	18.68	500.0	200.0	H	141.0	-0.4
2597.750000	---	45.55	54.00	8.45	500.0	100.0	H	138.0	-0.2

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

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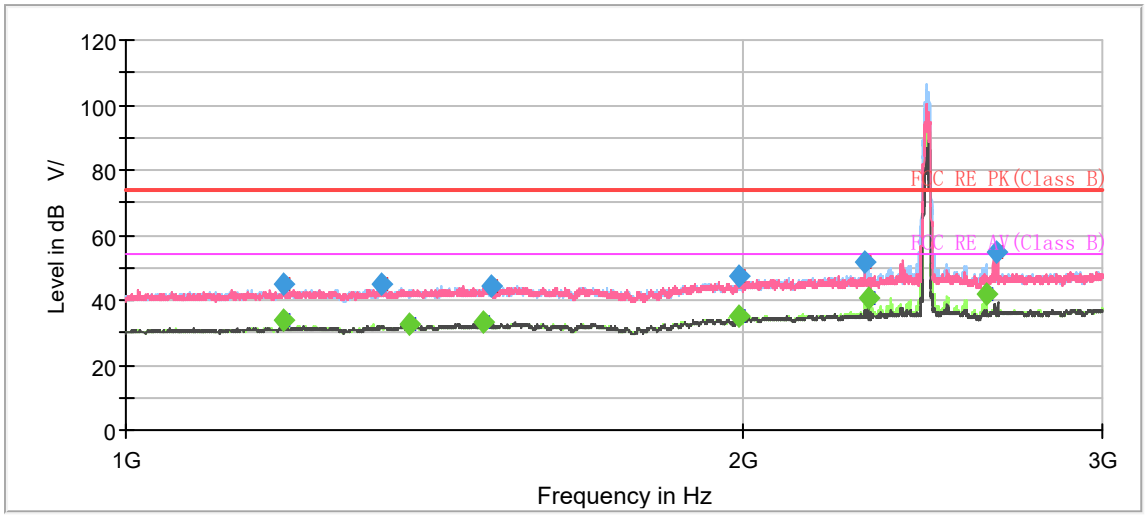
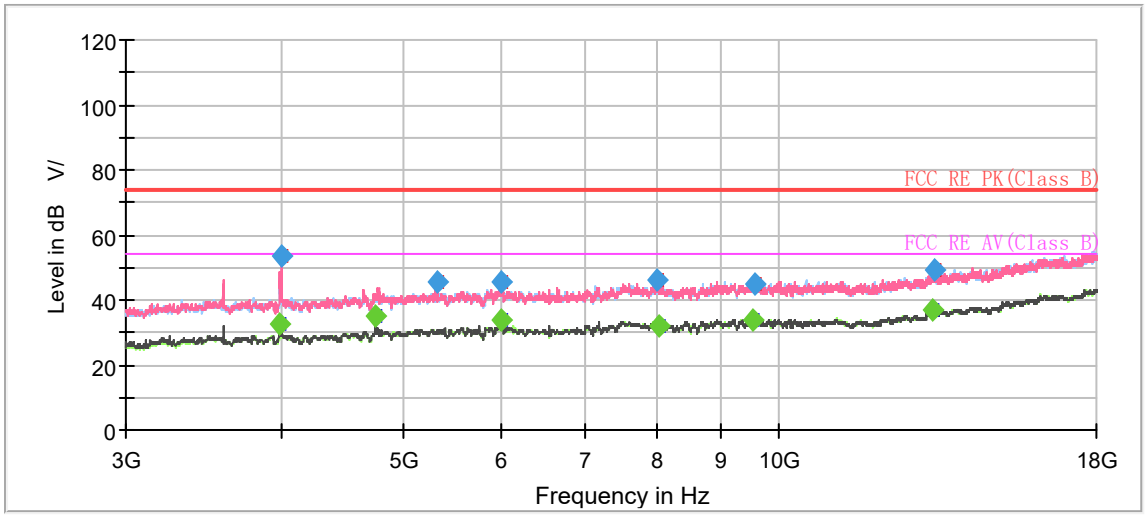
802.11ax (HE20) CH11



Radiated Emission from 1GHz to 3GHz



Radiated Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.250000	44.67	---	74.00	29.33	500.0	200.0	V	218.0	-7.5
1195.250000	---	33.68	54.00	20.32	500.0	200.0	V	218.0	-7.5
1333.000000	44.72	---	74.00	29.28	500.0	100.0	V	181.0	-6.7
1374.500000	---	32.72	54.00	21.28	500.0	200.0	V	174.0	-6.4
1495.500000	---	33.48	54.00	20.52	500.0	200.0	V	132.0	-5.6
1507.750000	44.48	---	74.00	29.52	500.0	200.0	H	235.0	-5.5
1992.250000	47.38	---	74.00	26.62	500.0	200.0	V	151.0	-3.0
1993.750000	---	35.33	54.00	18.67	500.0	200.0	V	141.0	-3.0
2298.750000	51.81	---	74.00	22.19	500.0	100.0	H	288.0	-1.6
2304.000000	---	40.84	54.00	13.16	500.0	200.0	H	289.0	-1.6
2632.250000	---	41.81	54.00	12.19	500.0	100.0	H	142.0	-0.2
2663.000000	54.77	---	74.00	19.23	500.0	100.0	V	154.0	-0.1

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

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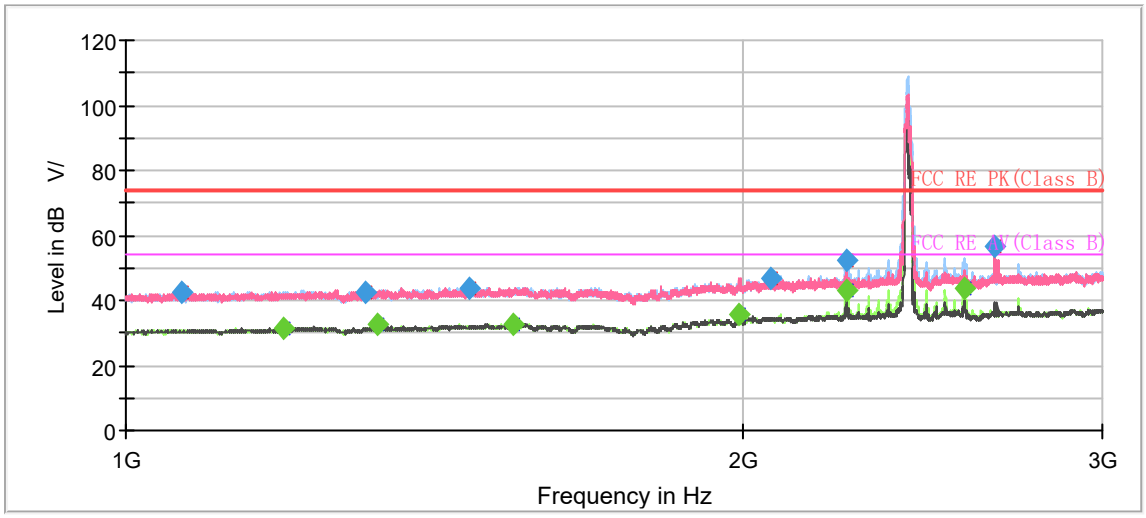
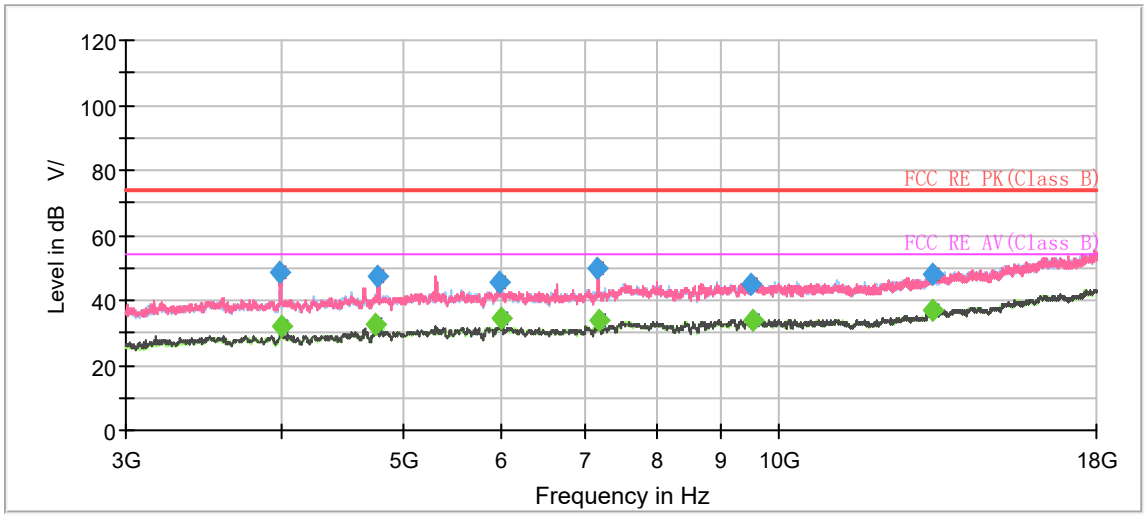
106-Tones
802.11ax (HE20) CH1



Radiated Emission from 1GHz to 3GHz



Radiated Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1064.000000	42.70	---	74.00	31.30	500.0	100.0	V	324.0	-8.3
1193.500000	---	31.31	54.00	22.69	500.0	100.0	H	19.0	-7.5
1309.250000	42.73	---	74.00	31.27	500.0	200.0	H	0.0	-6.8
1328.250000	---	32.58	54.00	21.42	500.0	200.0	H	320.0	-6.7
1471.750000	43.97	---	74.00	30.03	500.0	100.0	H	106.0	-5.7
1545.750000	---	32.92	54.00	21.08	500.0	200.0	V	42.0	-5.3
1993.250000	---	35.41	54.00	18.59	500.0	200.0	V	145.0	-3.0
2066.000000	46.91	---	74.00	27.09	500.0	200.0	V	37.0	-2.6
2249.500000	52.04	---	74.00	21.96	500.0	100.0	H	293.0	-1.9
2249.750000	---	42.77	54.00	11.23	500.0	200.0	H	294.0	-1.9
2571.250000	---	43.81	54.00	10.19	500.0	100.0	H	142.0	-0.3
2658.250000	56.74	---	74.00	17.26	500.0	100.0	V	156.0	-0.1

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

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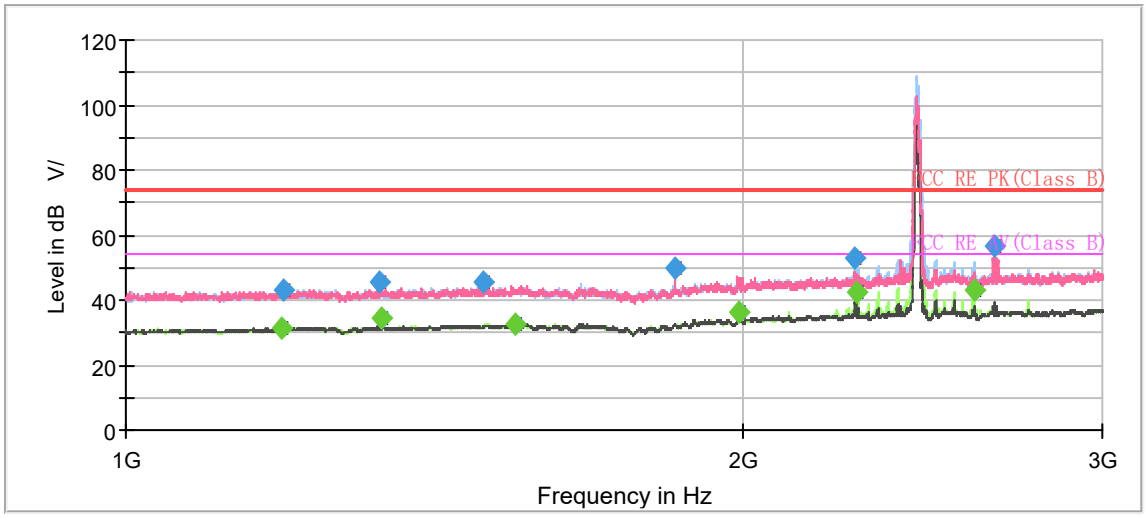
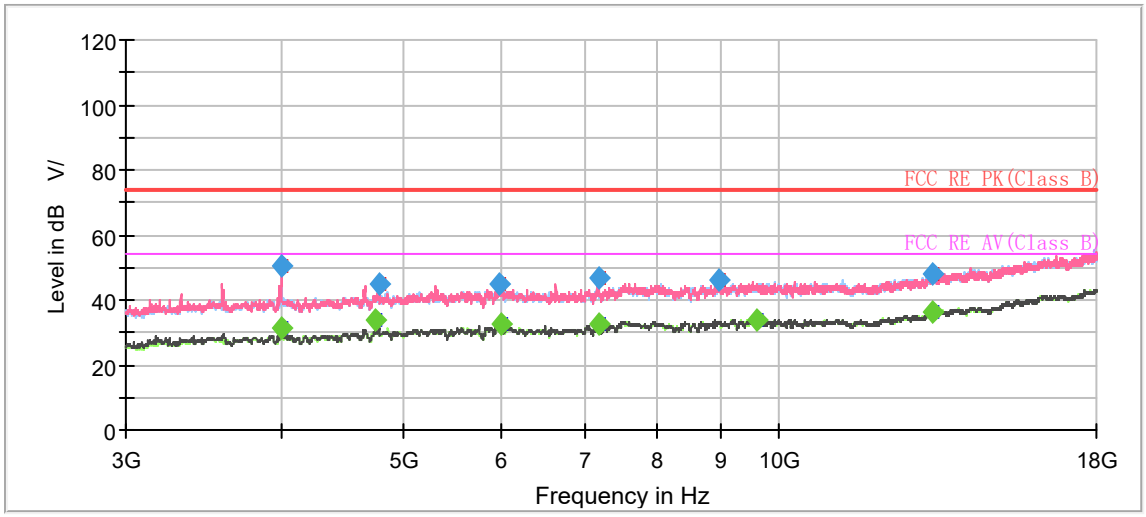
802.11ax (HE20) CH6



Radiated Emission from 1GHz to 3GHz



Radiated Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1190.500000	---	31.43	54.00	22.57	500.0	100.0	V	32.0	-7.5
1194.500000	43.15	---	74.00	30.85	500.0	100.0	V	188.0	-7.5
1330.750000	45.67	---	74.00	28.33	500.0	100.0	V	175.0	-6.7
1332.000000	---	34.19	54.00	19.81	500.0	100.0	V	175.0	-6.7
1496.000000	45.33	---	74.00	28.67	500.0	200.0	V	338.0	-5.6
1549.250000	---	32.59	54.00	21.41	500.0	100.0	V	19.0	-5.3
1855.750000	49.56	---	74.00	24.44	500.0	100.0	V	37.0	-3.7
1993.500000	---	36.38	54.00	17.62	500.0	100.0	V	157.0	-3.0
2272.250000	52.66	---	74.00	21.34	500.0	200.0	H	298.0	-1.8
2273.250000	---	42.31	54.00	11.69	500.0	200.0	H	0.0	-1.8
2597.750000	---	43.34	54.00	10.66	500.0	100.0	H	138.0	-0.2
2655.250000	56.90	---	74.00	17.10	500.0	100.0	V	161.0	-0.1

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

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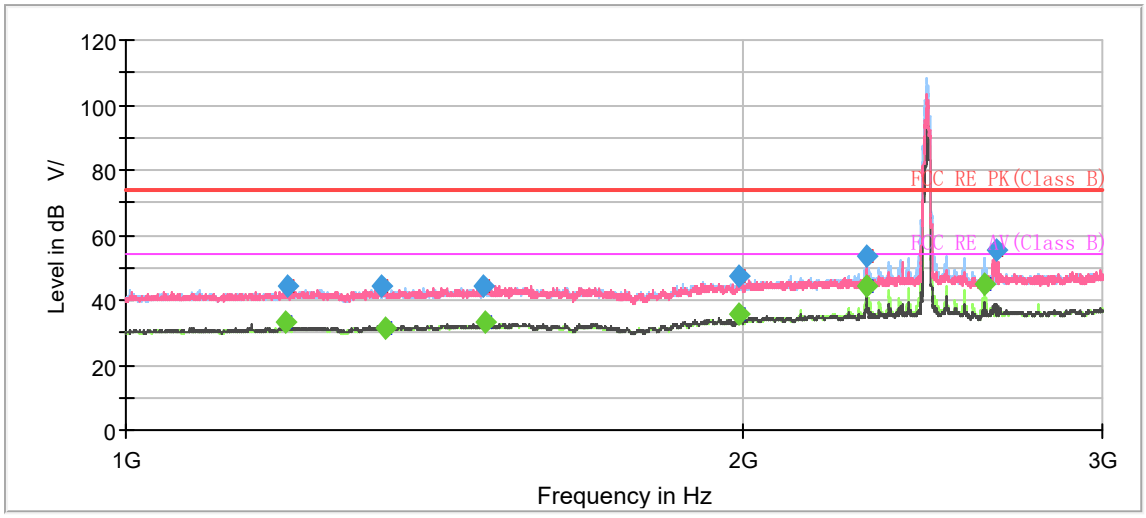
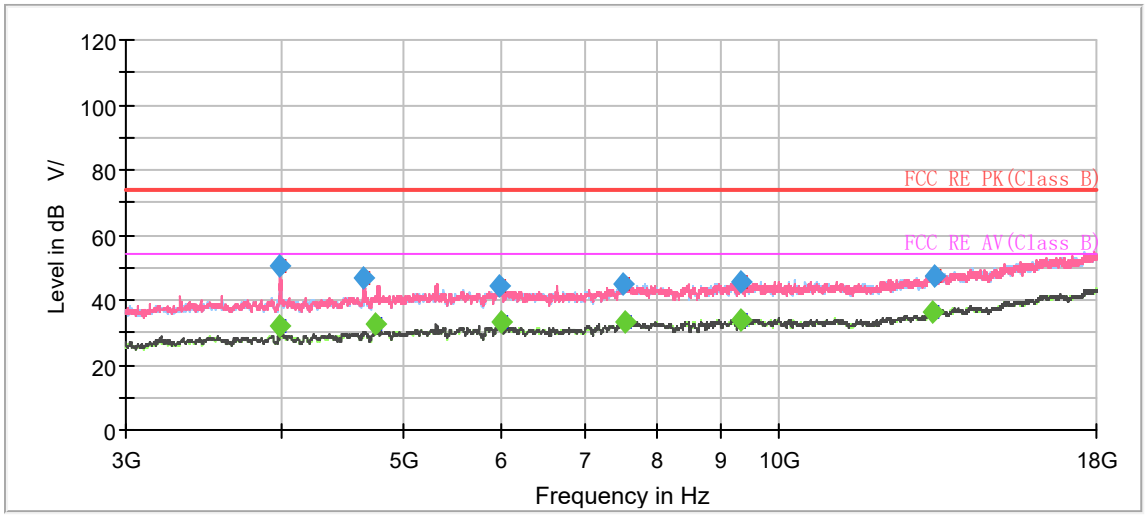
802.11ax (HE20) CH11



Radiated Emission from 1GHz to 3GHz



Radiated Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1197.000000	---	33.32	54.00	20.68	500.0	200.0	V	219.0	-7.5
1200.000000	44.26	---	74.00	29.74	500.0	200.0	V	219.0	-7.4
1332.750000	44.12	---	74.00	29.88	500.0	200.0	V	304.0	-6.7
1338.250000	---	31.38	54.00	22.62	500.0	200.0	H	0.0	-6.6
1494.000000	44.44	---	74.00	29.56	500.0	200.0	V	160.0	-5.6
1497.250000	---	33.05	54.00	20.95	500.0	200.0	V	160.0	-5.5
1993.250000	47.61	---	74.00	26.39	500.0	100.0	V	153.0	-3.0
1993.250000	---	35.99	54.00	18.01	500.0	100.0	V	153.0	-3.0
2299.750000	53.43	---	74.00	20.57	500.0	100.0	H	292.0	-1.6
2299.750000	---	44.42	54.00	9.58	500.0	100.0	H	292.0	-1.6
2628.000000	---	44.69	54.00	9.31	500.0	100.0	H	136.0	-0.2
2664.750000	55.48	---	74.00	18.52	500.0	100.0	V	171.0	-0.1

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

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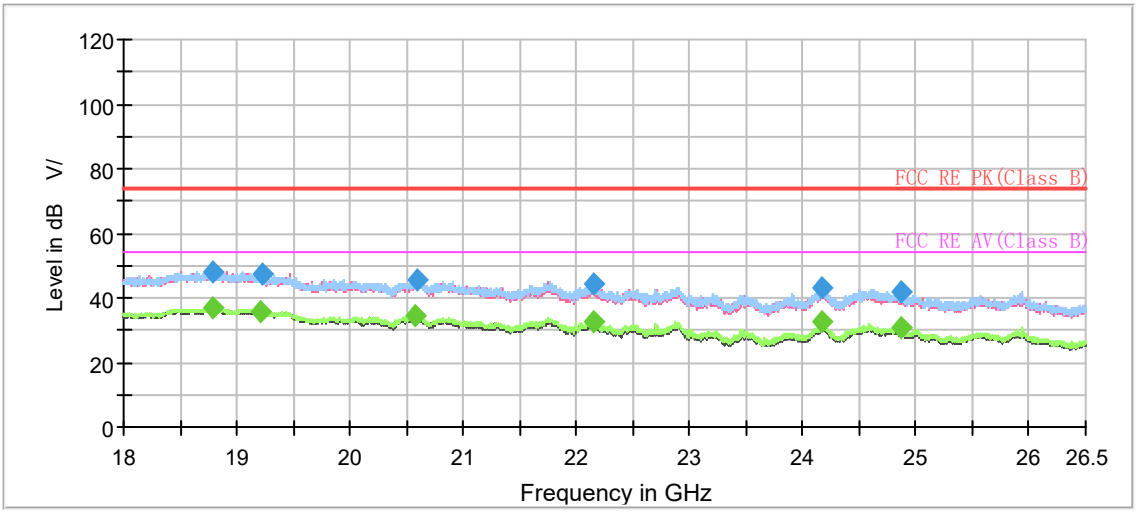
During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, 26-Tones 802.11ax (HE20) CH6 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18783.062500	48.10	---	74.00	25.90	500.0	100.0	H	96.0	-6.7
18792.625000	---	37.11	54.00	16.89	500.0	100.0	H	115.0	-6.7
19200.625000	---	35.97	54.00	18.03	500.0	100.0	H	47.0	-6.7
19224.000000	47.55	---	74.00	26.45	500.0	100.0	H	198.0	-6.8
20576.562500	---	34.47	54.00	19.53	500.0	100.0	H	0.0	-6.2
20587.187500	45.78	---	74.00	28.22	500.0	100.0	H	168.0	-6.2
22148.000000	---	32.61	54.00	21.39	500.0	100.0	H	229.0	-4.5
22155.437500	44.42	---	74.00	29.58	500.0	100.0	H	244.0	-4.5
24162.500000	43.24	---	74.00	30.76	500.0	100.0	V	279.0	-3.4
24162.500000	---	32.35	54.00	21.65	500.0	100.0	H	144.0	-3.4
24871.187500	41.64	---	74.00	32.36	500.0	100.0	H	27.0	-1.8
24873.312500	---	31.07	54.00	22.93	500.0	100.0	H	67.0	-1.8

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

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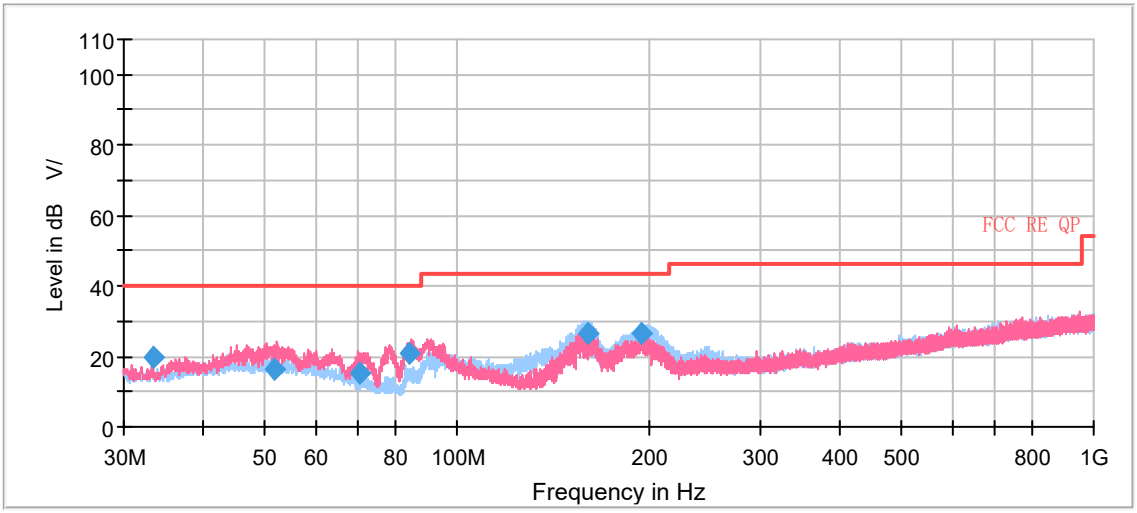
Bluetooth LE

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, Bluetooth LE-Channel 39 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

A symbol (dB V/) in the test plot below means (dBμV/m)



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
33.338000	19.56	40.00	20.44	100.0	V	177.0	17.1
51.717667	16.58	40.00	23.42	109.0	V	0.0	20.4
70.628667	15.16	40.00	24.84	110.0	V	15.0	16.0
84.532667	21.15	40.00	18.85	110.0	V	182.0	14.4
160.366333	26.60	43.50	16.90	185.0	H	106.0	15.1
195.009667	26.50	43.50	17.00	175.0	H	102.0	18.6

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

2. Margin = Limit – Quasi-Peak

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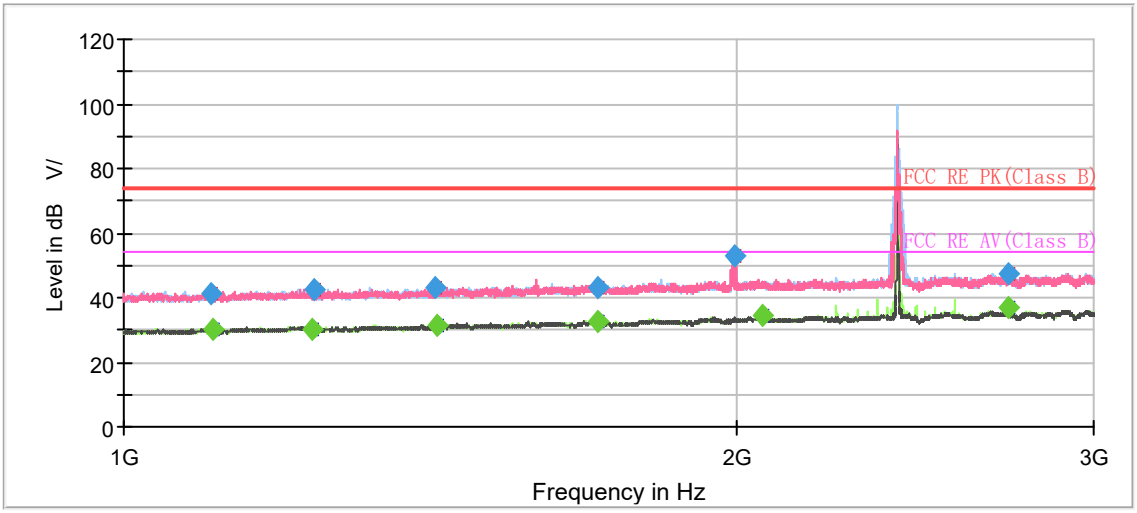
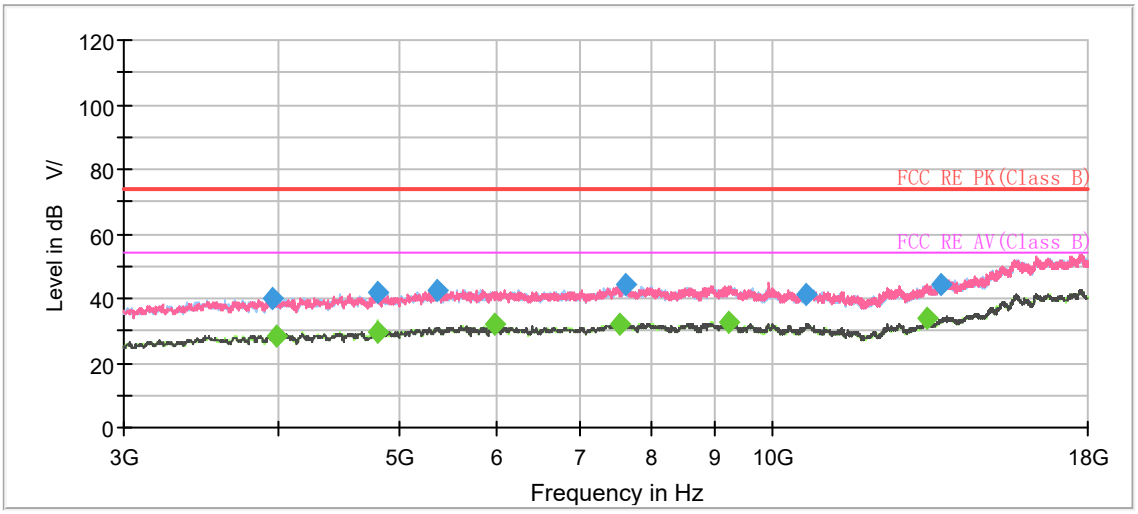
Bluetooth LE-Channel 0



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3961.875000	39.78	---	74.00	34.22	500.0	100.0	H	267.0	-5.0
3982.500000	---	28.48	54.00	25.52	500.0	200.0	H	178.0	-4.9
4801.875000	---	29.83	54.00	24.17	500.0	100.0	H	236.0	-3.1
4809.375000	41.73	---	74.00	32.27	500.0	200.0	H	128.0	-3.1
5373.750000	42.20	---	74.00	31.80	500.0	200.0	V	261.0	-1.5
5975.625000	---	31.89	54.00	22.11	500.0	200.0	V	234.0	-0.9
7530.000000	---	32.17	54.00	21.83	500.0	200.0	H	90.0	0.9
7633.125000	44.29	---	74.00	29.71	500.0	100.0	V	158.0	0.9
9245.625000	---	32.72	54.00	21.28	500.0	200.0	V	0.0	2.1
10666.875000	41.08	---	74.00	32.92	500.0	200.0	H	142.0	2.1
13338.750000	---	33.55	54.00	20.45	500.0	200.0	H	221.0	7.0
13717.500000	44.32	---	74.00	29.68	500.0	200.0	H	0.0	7.4

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

2. Margin = Limit –MAX Peak/ Average

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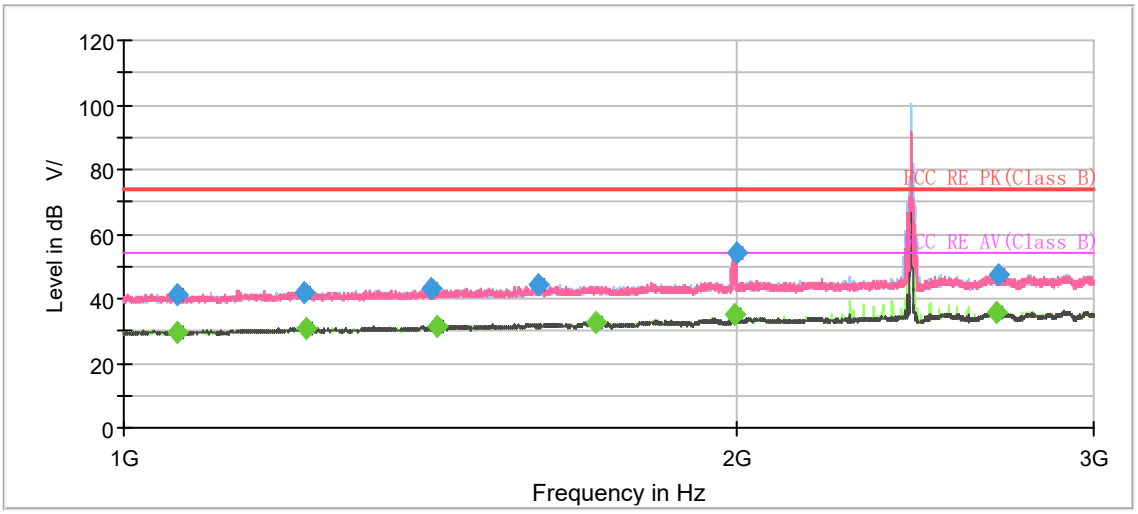
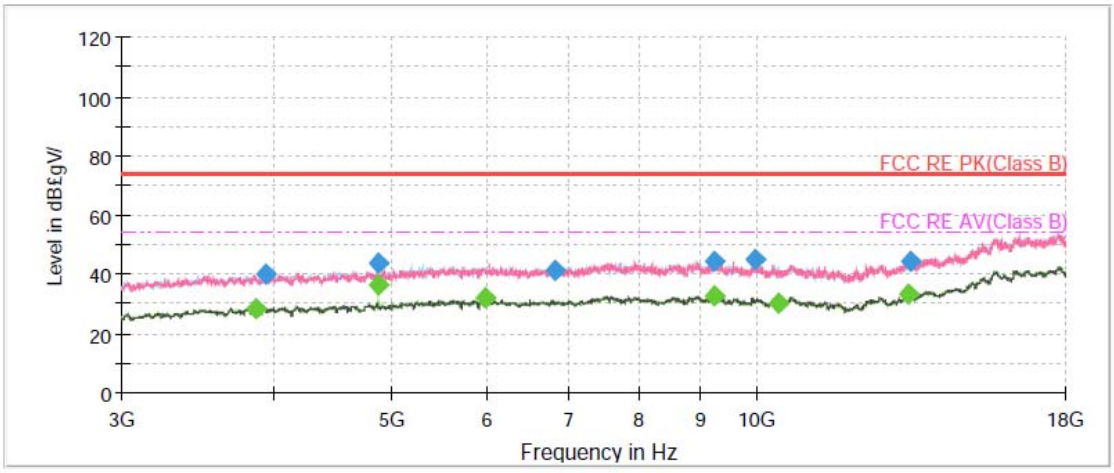
Bluetooth LE-Channel 19



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3864.375000	---	28.60	54.00	25.40	500.0	100.0	H	131.0	-5.4
3935.625000	40.28	---	74.00	33.72	500.0	100.0	V	57.0	-5.1
4878.750000	---	36.10	54.00	17.90	500.0	200.0	H	39.0	-2.8
4878.750000	43.76	---	74.00	30.24	500.0	200.0	H	39.0	-2.8
5971.875000	---	32.15	54.00	21.85	500.0	100.0	V	257.0	-0.9
6834.375000	41.17	---	74.00	32.83	500.0	200.0	H	246.0	-0.8
9245.625000	---	32.55	54.00	21.45	500.0	100.0	H	131.0	2.1
9251.250000	44.22	---	74.00	29.78	500.0	200.0	V	0.0	2.1
9982.500000	44.91	---	74.00	29.09	500.0	100.0	V	78.0	2.4
10430.625000	---	30.45	54.00	23.55	500.0	100.0	V	108.0	2.1
13336.875000	---	33.37	54.00	20.63	500.0	100.0	V	327.0	7.0
13385.625000	44.18	---	74.00	29.82	500.0	200.0	V	176.0	7.1

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

2. Margin = Limit –MAX Peak/ Average

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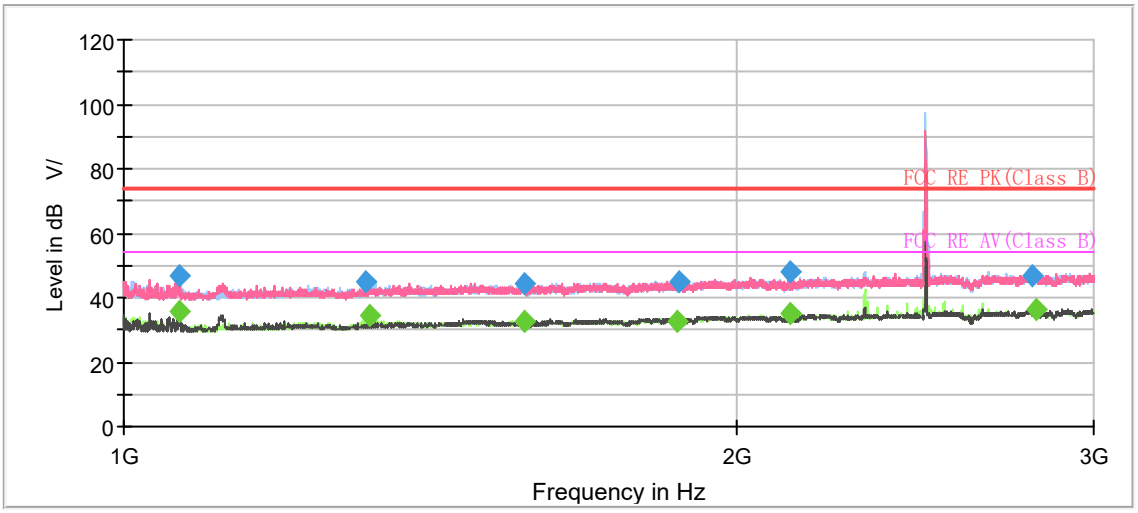
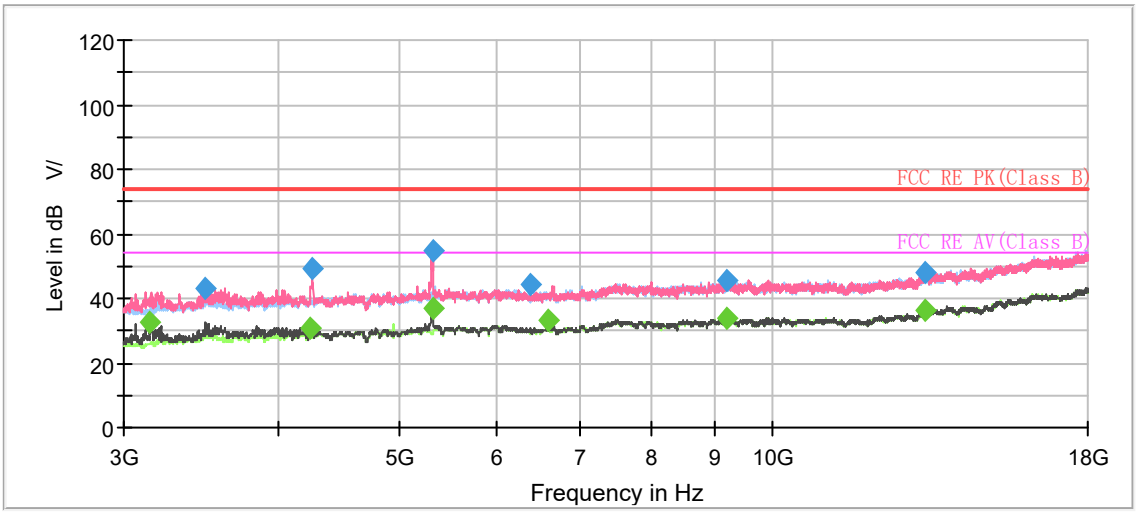
Bluetooth LE-Channel 39



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)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3150.000000	---	32.55	54.00	21.45	500.0	100.0	V	212.0	-8.1
3489.375000	43.16	---	74.00	30.84	500.0	200.0	V	162.0	-6.4
4248.750000	---	30.83	54.00	23.17	500.0	100.0	V	180.0	-4.3
4261.875000	49.48	---	74.00	24.52	500.0	200.0	V	193.0	-4.3
5328.750000	---	36.94	54.00	17.06	500.0	100.0	V	111.0	-1.7
5330.625000	54.47	---	74.00	19.53	500.0	100.0	V	111.0	-1.7
6393.750000	44.03	---	74.00	29.97	500.0	100.0	V	356.0	-0.9
6613.125000	---	33.16	54.00	20.84	500.0	100.0	V	248.0	-0.8
9202.500000	45.29	---	74.00	28.71	500.0	100.0	V	0.0	2.1
9202.500000	---	33.83	54.00	20.17	500.0	200.0	H	288.0	2.1
13318.125000	48.25	---	74.00	25.75	500.0	100.0	V	154.0	6.9
13323.750000	---	36.42	54.00	17.58	500.0	200.0	V	1.0	6.9

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

2. Margin = Limit –MAX Peak/ Average

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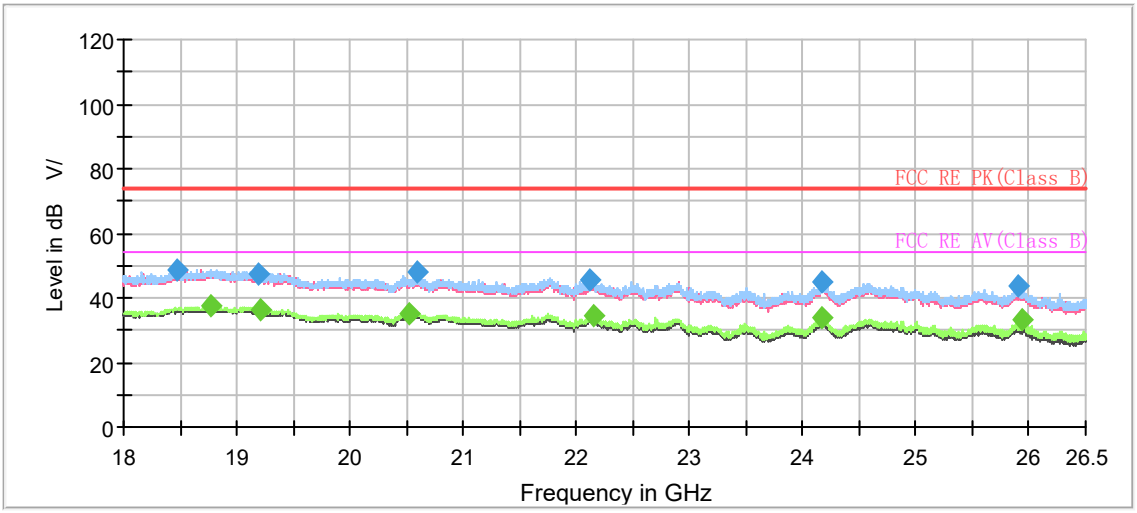
During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, Bluetooth LE-Channel 39 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18480.250000	48.92	---	74.00	25.08	500.0	100.0	H	260.0	-7.3
18762.875000	---	37.72	54.00	16.28	500.0	100.0	H	32.0	-6.7
19199.562500	47.54	---	74.00	26.46	500.0	200.0	H	189.0	-6.7
19205.937500	---	36.42	54.00	17.58	500.0	100.0	H	32.0	-6.8
20517.062500	---	35.23	54.00	18.77	500.0	100.0	H	51.0	-6.2
20593.562500	47.89	---	74.00	26.11	500.0	100.0	H	32.0	-6.2
22114.000000	45.76	---	74.00	28.24	500.0	100.0	H	300.0	-4.5
22146.937500	---	34.16	54.00	19.84	500.0	100.0	H	0.0	-4.5
24162.500000	45.07	---	74.00	28.93	500.0	100.0	H	17.0	-3.4
24167.812500	---	33.72	54.00	20.28	500.0	100.0	H	229.0	-3.4
25902.875000	43.79	---	74.00	30.21	500.0	100.0	H	0.0	-2.9
25939.000000	---	32.93	54.00	21.07	500.0	100.0	H	0.0	-3.0

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

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5.7. Conducted Emission

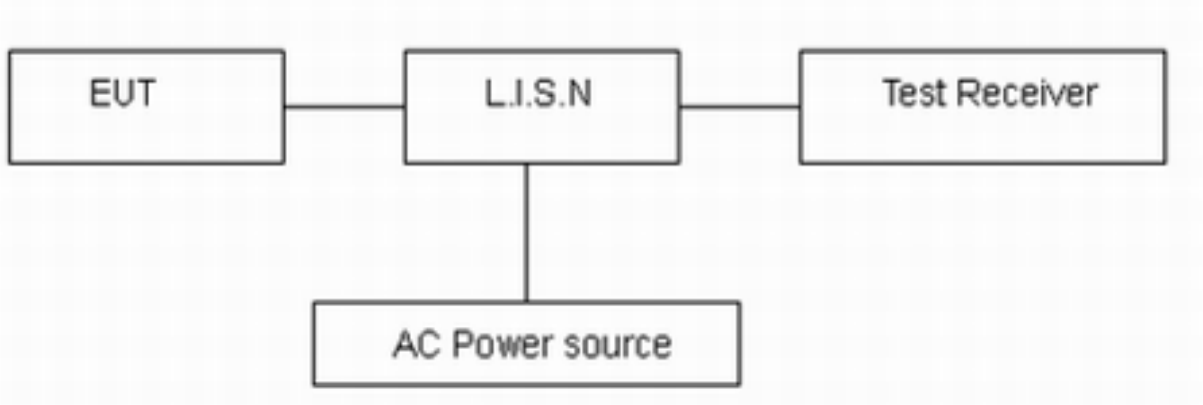
Ambient Condition

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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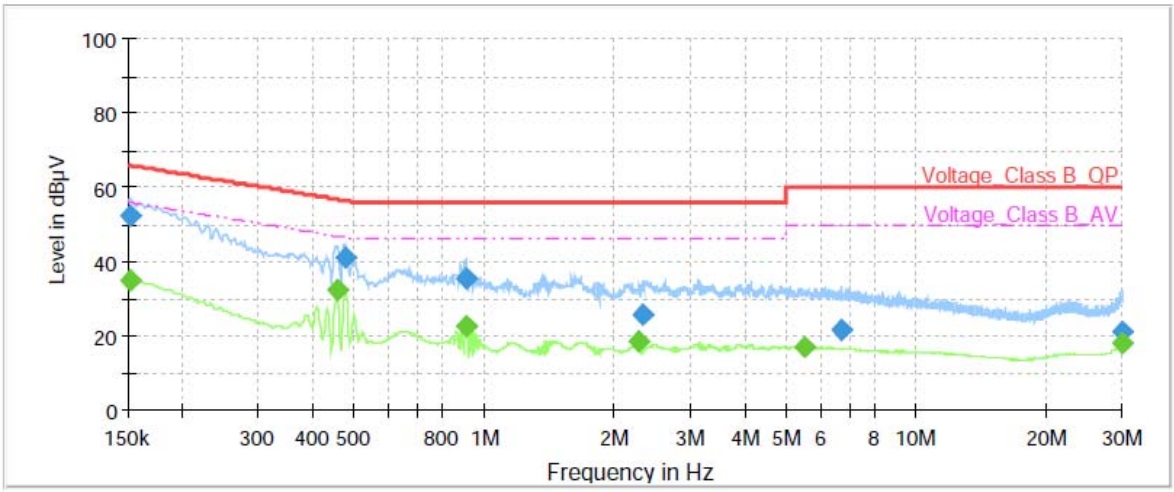
Test Results:

Following plots, Blue trace uses the peak detection and Green trace uses the average detection.

Wi-Fi 2.4G

During the test, the Conducted Emission was performed in all modes with all channels, 26-Tones 802.11ax (HE20) 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)
0.15	---	35.02	55.88	20.86	1000.0	9.000	L1	ON	20.9
0.15	52.07	---	65.88	13.81	1000.0	9.000	L1	ON	20.9
0.46	---	32.26	46.77	14.51	1000.0	9.000	L1	ON	20.7
0.48	41.17	---	56.40	15.23	1000.0	9.000	L1	ON	20.7
0.91	35.34	---	56.00	20.66	1000.0	9.000	L1	ON	20.0
0.91	---	22.45	46.00	23.55	1000.0	9.000	L1	ON	20.0
2.28	---	18.29	46.00	27.71	1000.0	9.000	L1	ON	19.3
2.34	25.51	---	56.00	30.49	1000.0	9.000	L1	ON	19.3
5.50	---	16.89	50.00	33.11	1000.0	9.000	L1	ON	19.2
6.69	21.60	---	60.00	38.40	1000.0	9.000	L1	ON	19.2
29.91	21.16	---	60.00	38.84	1000.0	9.000	L1	ON	20.1
29.97	---	18.06	50.00	31.94	1000.0	9.000	L1	ON	20.1

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz

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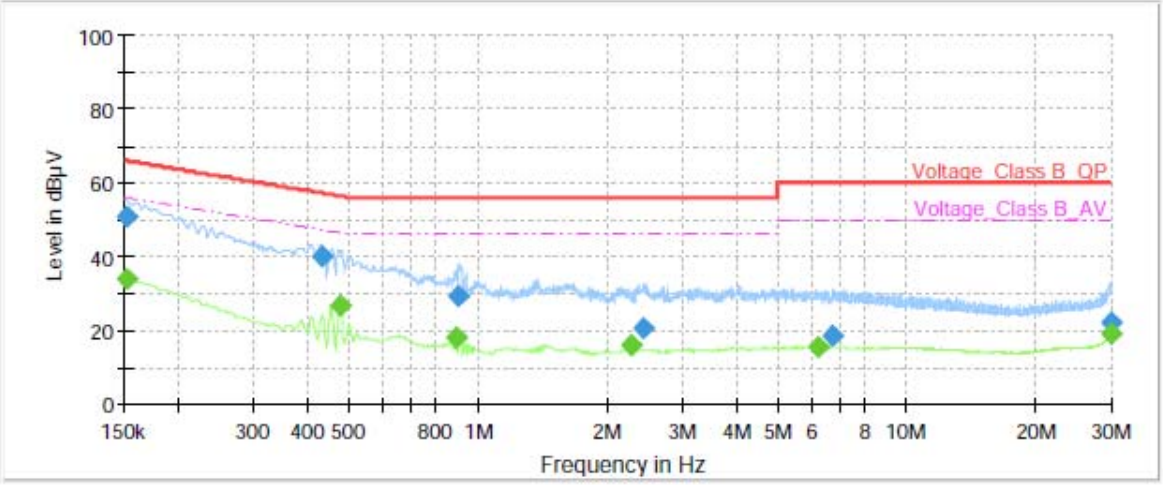

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	50.94	---	65.88	14.94	1000.0	9.000	N	ON	20.9
0.15	---	33.95	55.88	21.93	1000.0	9.000	N	ON	20.9
0.43	39.99	---	57.23	17.24	1000.0	9.000	N	ON	20.8
0.48	---	26.50	46.40	19.90	1000.0	9.000	N	ON	20.7
0.89	---	18.04	46.00	27.96	1000.0	9.000	N	ON	20.1
0.90	29.36	---	56.00	26.64	1000.0	9.000	N	ON	20.1
2.28	---	15.79	46.00	30.21	1000.0	9.000	N	ON	19.4
2.44	20.58	---	56.00	35.42	1000.0	9.000	N	ON	19.4
6.24	---	15.38	50.00	34.62	1000.0	9.000	N	ON	19.3
6.74	18.44	---	60.00	41.56	1000.0	9.000	N	ON	19.3
29.84	21.97	---	60.00	38.03	1000.0	9.000	N	ON	20.3
29.98	---	18.72	50.00	31.28	1000.0	9.000	N	ON	20.3

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz

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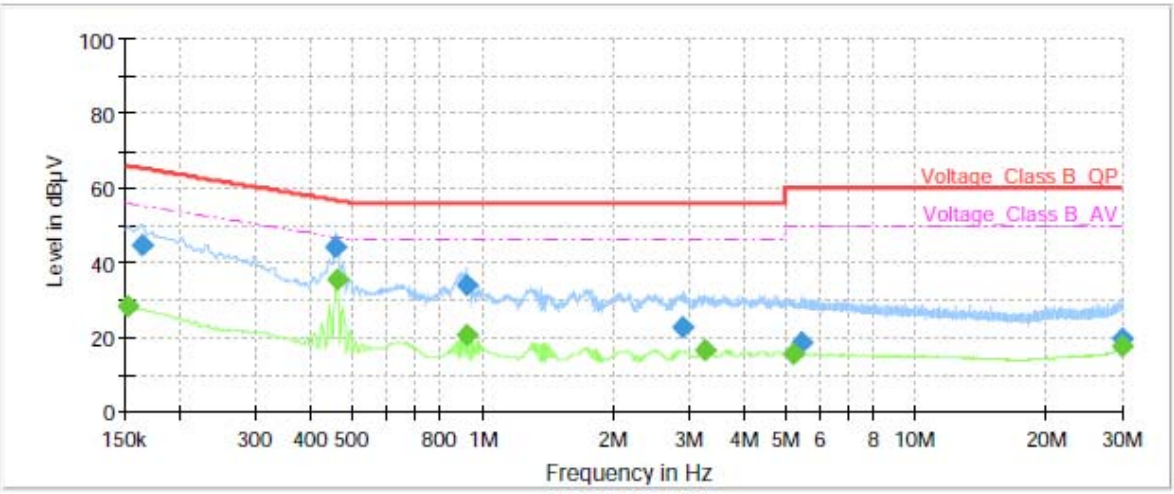
Bluetooth LE

During the test, the Conducted Emission was performed in all modes with all channels, Bluetooth LE-Channel 39 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)
0.15	---	28.24	55.88	27.64	1000.0	9.000	L1	ON	20.9
0.16	44.75	---	65.28	20.53	1000.0	9.000	L1	ON	20.9
0.46	43.90	---	56.72	12. 82	1000.0	9.000	L1	ON	20.7
0.46	---	35.35	46.68	11.33	1000.0	9.000	L1	ON	20.7
0.92	33.78	---	56.00	22.22	1000.0	9.000	L1	ON	20.0
0.92	---	20.32	46.00	25.68	1000.0	9.000	L1	ON	20.0
2.91	22.35	---	56.00	33.65	1000.0	9.000	L1	ON	19.2
3.25	---	16.59	46.00	29.41	1000.0	9.000	L1	ON	19.2
5.20	---	15.55	50.00	34.45	1000.0	9.000	L1	ON	19.2
5.49	18.64	---	60.00	41.36	1000.0	9.000	L1	ON	19.2
29.97	---	17.35	50.00	32.65	1000.0	9.000	L1	ON	20.1
29.98	19.42	---	60.00	40.58	1000.0	9.000	L1	ON	20.1

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz

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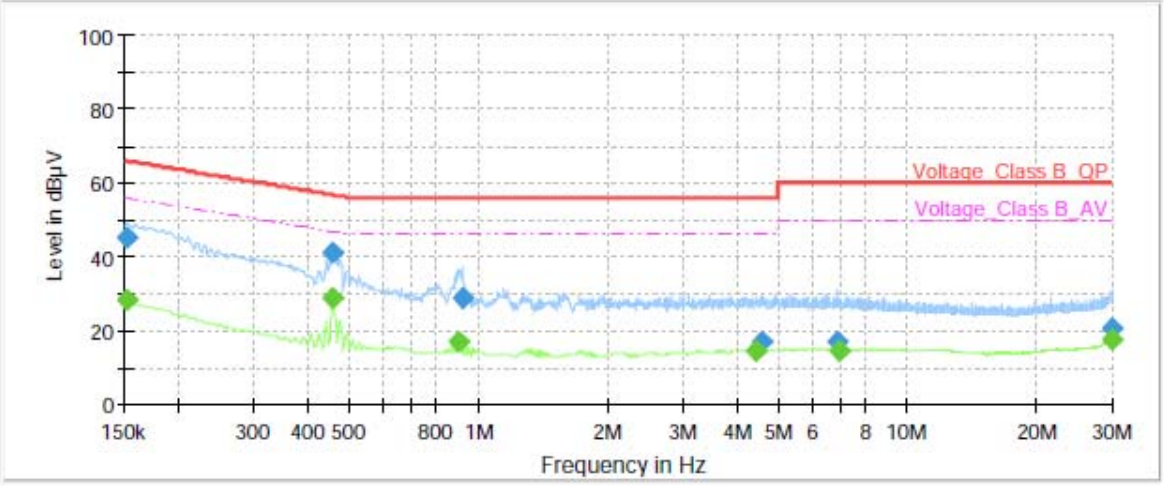

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	---	27.96	55.88	27.92	1000.0	9.000	N	ON	20.9
0.15	45.23	---	65.88	20.65	1000.0	9.000	N	ON	20.9
0.46	---	28.54	46.72	18.18	1000.0	9.000	N	ON	20.7
0.46	40.79	---	56.72	15.93	1000.0	9.000	N	ON	20.7
0.90	---	17.05	46.00	28.95	1000.0	9.000	N	ON	20.1
0.92	28.92	---	56.00	27.08	1000.0	9.000	N	ON	20.1
4.43	---	14.54	46.00	31.46	1000.0	9.000	N	ON	19.2
4.56	17.10	---	56.00	38.90	1000.0	9.000	N	ON	19.2
6.90	17.00	---	60.00	43.00	1000.0	9.000	N	ON	19.3
6.97	---	14.58	50.00	35.42	1000.0	9.000	N	ON	19.3
29.96	20.30	---	60.00	39.70	1000.0	9.000	N	ON	20.3
30.00	---	17.20	50.00	32.80	1000.0	9.000	N	ON	20.3

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
Power sensor	R&S	NRP18S	101954	2022-05-14	2023-05-13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2022-05-14	2023-05-13
Radiated Emission					
EMI Test Receiver	R&S	ESR	102389	2022-05-25	2023-05-24
Spectrum Analyzer	R&S	FSV40	101186	2022-05-14	2023-05-13
Loop antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2020-05-05	2023-05-04
Horn Antenna	R&S	HF907	102723	2020-08-11	2023-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09
Software	R&S	EMC32	9.26.0	/	/
Conducted Emission					
Artificial main network	R&S	ENV216	102191	2022-12-13	2024-12-09
EMI Test Receiver	R&S	ESR	101667	2022-05-25	2023-05-24
Software	R&S	EMC32	10.35.10	/	/

********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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