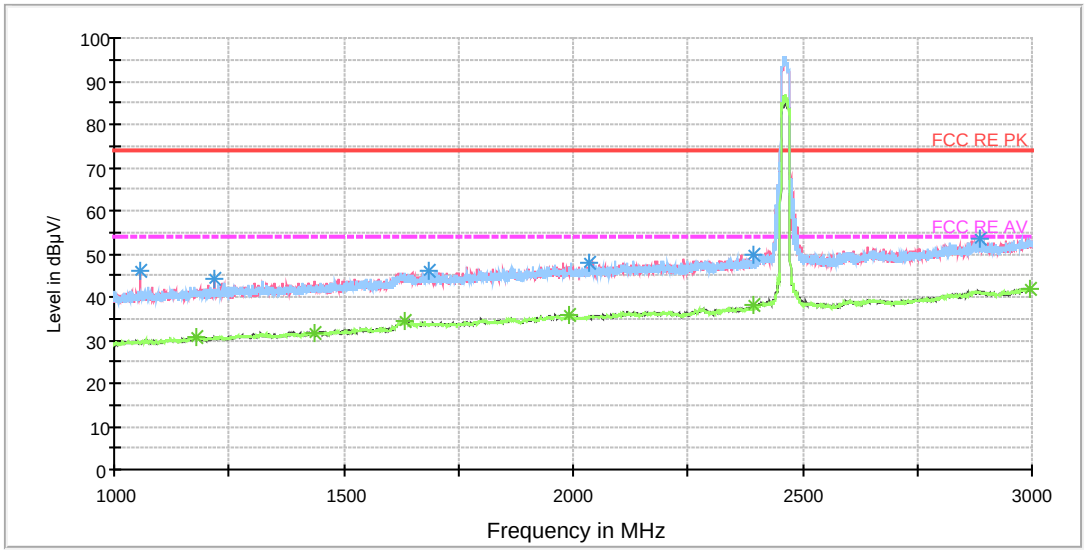
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1055.000000	45.8	101.0	V	237.0	54.8	-9.0	28.2	74
1216.500000	44.2	101.0	V	357.0	52.1	-7.9	29.8	74
1684.000000	46.0	101.0	H	230.0	51.0	-5.0	28.0	74
2034.750000	47.9	101.0	H	44.0	51.2	-3.3	26.1	74
2393.250000	50.0	101.0	V	28.0	51.3	-1.3	24.0	74
2885.500000	53.7	101.0	V	344.0	55.9	2.2	20.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1179.750000	30.8	101.0	H	71.0	38.8	-8.0	23.2	54
1435.250000	31.8	101.0	H	71.0	38.7	-6.9	22.2	54
1631.250000	34.4	101.0	H	176.0	39.1	-4.7	19.6	54
1991.500000	36.0	101.0	H	123.0	39.3	-3.3	18.0	54
2393.750000	38.3	101.0	H	230.0	39.6	-1.3	15.7	54
2996.000000	42.1	101.0	V	278.0	44.4	2.3	11.9	54

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

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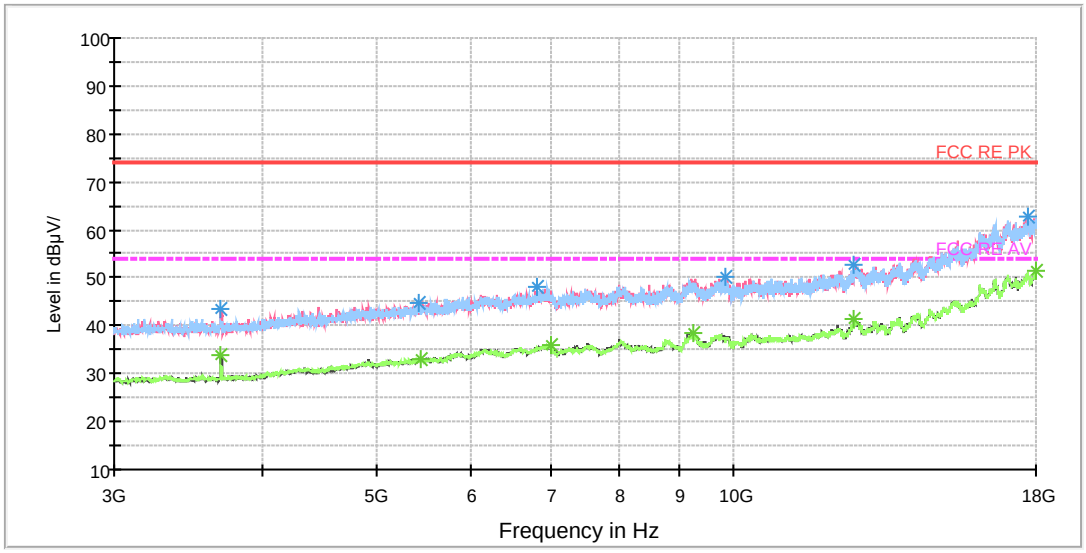
RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3691.875000	43.5	101.0	V	0.0	45.2	-1.7	30.5	74
5431.875000	44.7	101.0	H	264.0	47.5	2.8	29.3	74
6828.750000	48.1	101.0	H	0.0	53.9	5.8	25.9	74
9855.000000	50.0	101.0	V	204.0	60.4	10.4	24.0	74
12639.375000	52.9	101.0	V	356.0	67.4	14.5	21.1	74
17703.750000	62.5	101.0	H	104.0	87.2	24.7	11.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3693.750000	33.8	101.0	V	204.0	35.4	-1.6	20.2	54
5448.750000	33.2	101.0	H	104.0	36	2.8	20.8	54
7001.250000	36.0	101.0	V	310.0	42.6	6.6	18.0	54
9236.250000	38.6	101.0	V	356.0	48.5	9.9	15.4	54
12646.875000	41.4	101.0	H	167.0	55.7	14.3	12.6	54
17994.375000	51.3	101.0	V	326.0	76.6	25.3	2.7	54

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

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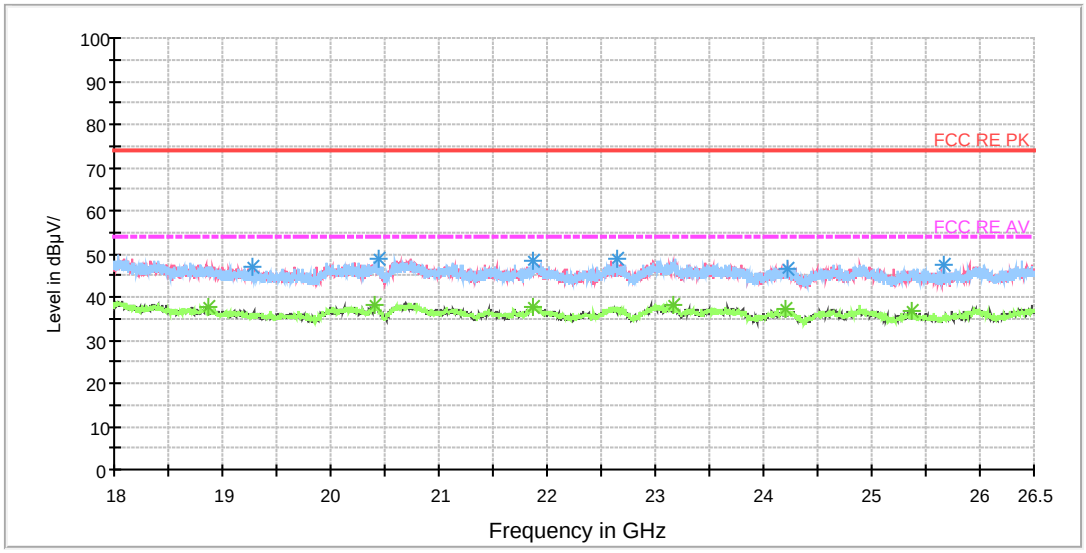
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19273.937500	47.1	H	0.0	52.8	-5.7	26.9	74
20441.625000	48.7	H	60.0	54.8	-6.1	25.3	74
21879.187500	48.2	V	290.0	56.2	-8.0	25.8	74
22653.750000	49.1	H	227.0	55.7	-6.6	24.9	74
24228.375000	46.7	V	253.0	52.6	-5.9	27.3	74
25670.187500	47.3	V	178.0	52.9	-5.6	26.7	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18864.875000	37.5	V	0.0	42.2	-4.7	16.5	54
20415.062500	38.0	V	58.0	44.1	-6.1	16.0	54
21878.125000	37.8	V	0.0	45.8	-8.0	16.2	54
23158.437500	38.1	H	47.0	44.2	-6.1	15.9	54
24197.562500	37.1	V	228.0	43.0	-5.9	16.9	54
25369.500000	36.9	H	110.0	42.7	-5.8	17.1	54

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

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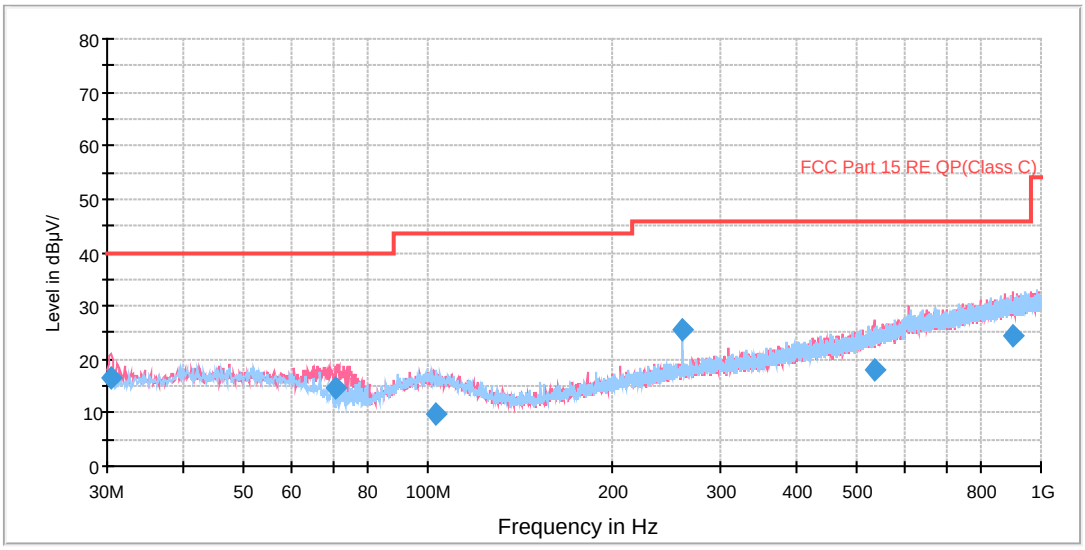
802.11n (HT40) CH3

FCC RE 0.03-1GHz QP Class C



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.480000	16.6	100.0	V	58.0	28.5	11.9	23.4	40.0
70.705000	14.6	100.0	V	168.0	23.2	8.6	25.4	40.0
102.785000	9.6	189.0	V	79.0	22.6	13.0	33.9	43.5
260.011250	25.7	100.0	H	288.0	40.1	14.4	20.3	46.0
536.901250	18.1	100.0	V	231.0	38.8	20.7	27.9	46.0
902.270000	24.6	100.0	V	55.0	50.3	25.7	21.4	46.0

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

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

3. Margin = Limit – Quasi-Peak

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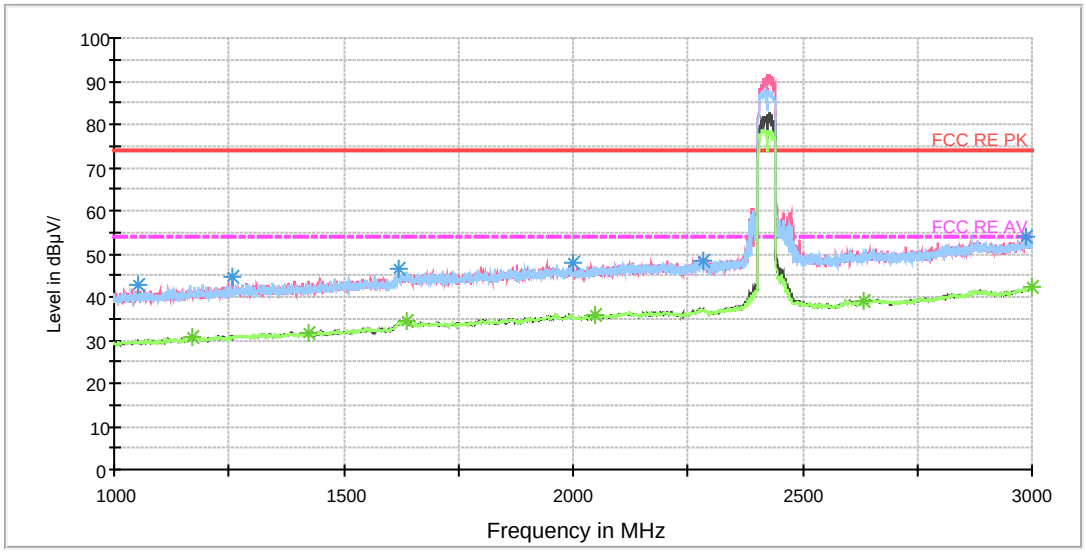
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1052.750000	42.8	101.0	H	0.0	51.8	-9.0	31.2	74
1258.000000	44.9	101.0	V	358.0	52.7	-7.8	29.1	74
1621.250000	46.3	101.0	V	238.0	51.1	-4.8	27.7	74
1999.250000	48.1	101.0	H	0.0	51.5	-3.4	25.9	74
2283.500000	48.5	101.0	H	259.0	50.0	-1.5	25.5	74
2986.500000	54.1	101.0	V	184.0	56.3	2.2	19.9	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1170.250000	30.8	101.0	H	43.0	38.9	-8.1	23.2	54
1422.500000	31.8	101.0	V	318.0	38.7	-6.9	22.2	54
1639.000000	34.3	101.0	H	0.0	39.0	-4.7	19.7	54
2049.250000	36.0	101.0	H	43.0	39.2	-3.2	18.0	54
2634.750000	38.9	101.0	V	290.0	38.9	0.0	15.1	54
2998.750000	42.1	101.0	V	0.0	44.4	2.3	11.9	54

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

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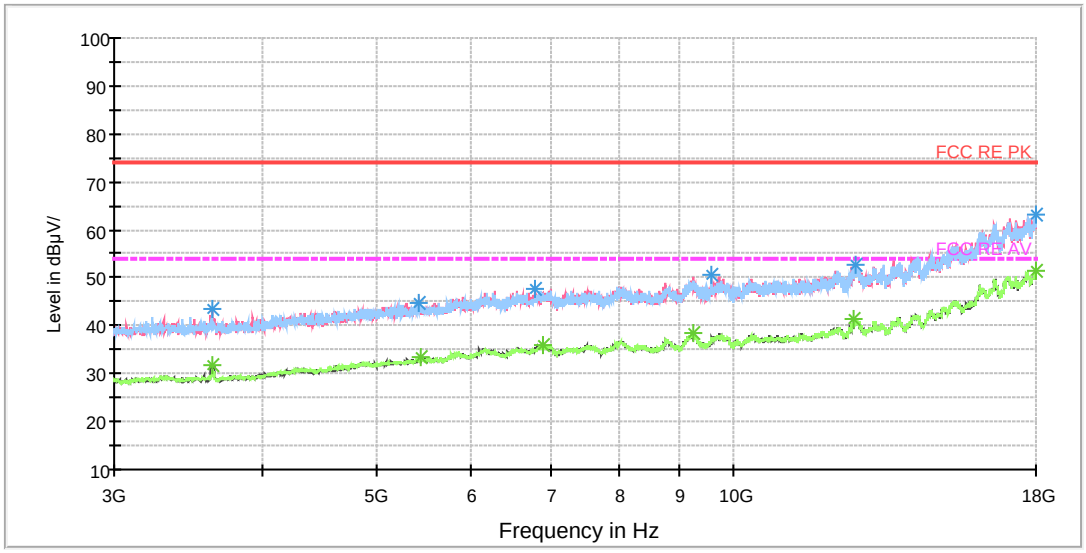
RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3628.125000	43.6	101.0	V	0.0	45.5	-1.9	30.4	74
5413.125000	44.7	101.0	V	249.0	47.3	2.6	29.3	74
6806.250000	47.6	101.0	V	0.0	53.4	5.8	26.4	74
9585.000000	50.5	101.0	H	281.0	60.5	10.0	23.5	74
12671.250000	52.9	101.0	H	36.0	67.0	14.1	21.1	74
17998.125000	63.0	101.0	H	21.0	88.4	25.4	11.0	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3630.000000	32.0	101.0	V	204.0	33.9	-1.9	22.0	54
5443.125000	33.3	101.0	H	187.0	36.2	2.9	20.7	54
6898.125000	36.0	101.0	V	0.0	42.2	6.2	18.0	54
9241.875000	38.4	101.0	H	157.0	48.3	9.9	15.6	54
12645.000000	41.6	101.0	H	314.0	56.0	14.4	12.4	54
18000.000000	51.3	101.0	H	127.0	76.8	25.5	2.7	54

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

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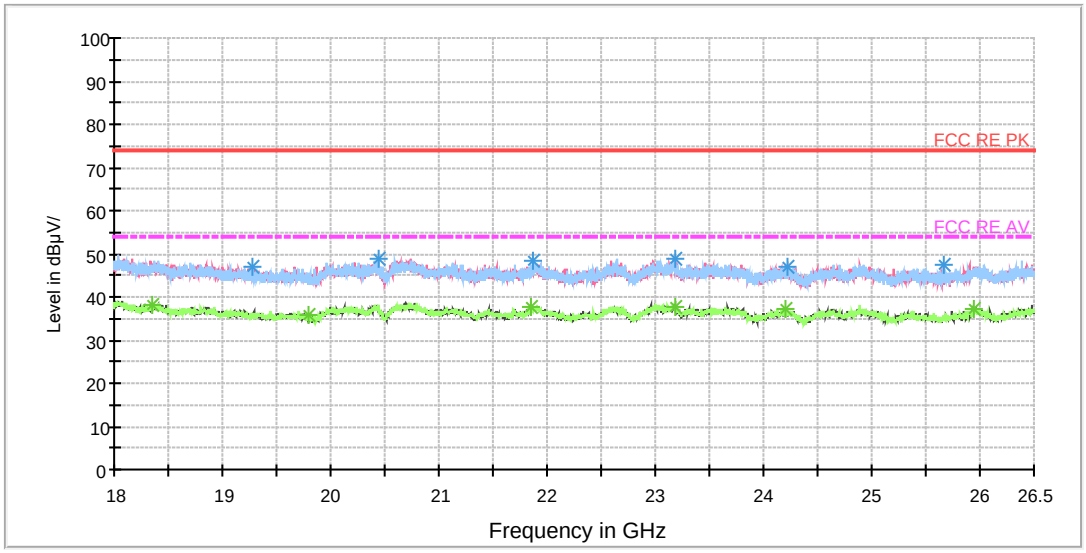
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19273.937500	47.1	H	0.0	52.8	-5.7	26.9	74
20441.625000	48.7	H	60.0	54.8	-6.1	25.3	74
21879.187500	48.2	V	290.0	56.2	-8.0	25.8	74
23186.062500	48.6	H	121.0	54.6	-6.0	25.4	74
24213.500000	47.2	V	290.0	53.1	-5.9	26.8	74
25670.187500	47.3	V	178.0	52.9	-5.6	26.7	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18358.062500	38.3	V	327.0	41.6	-3.3	15.7	54
19803.062500	35.8	V	314.0	41.7	-5.9	18.2	54
21853.687500	37.6	V	339.0	45.6	-8.0	16.4	54
23189.250000	37.9	H	0.0	43.9	-6.0	16.1	54
24197.562500	37.1	V	228.0	43.0	-5.9	16.9	54
25944.312500	37.4	H	279.0	42.8	-5.4	16.6	54

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

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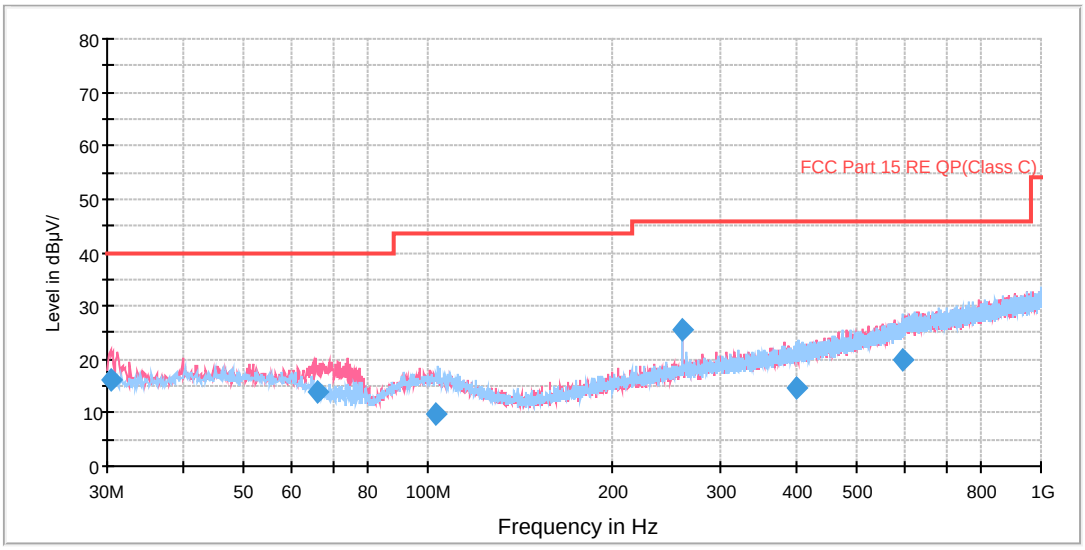
802.11n (HT40) CH6

FCC RE 0.03-1GHz QP Class C



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.440000	16.3	100.0	V	0.0	28.2	11.9	23.7	40.0
65.887500	14.0	100.0	V	140.0	24.2	10.2	26.0	40.0
103.198750	9.7	203.0	H	200.0	22.6	12.9	33.8	43.5
260.011250	25.5	100.0	H	294.0	39.9	14.4	20.5	46.0
397.952500	14.8	100.0	H	279.0	32.7	17.9	31.2	46.0
595.988750	19.7	225.0	H	304.0	41.8	22.1	26.3	46.0

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

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

3. Margin = Limit – Quasi-Peak

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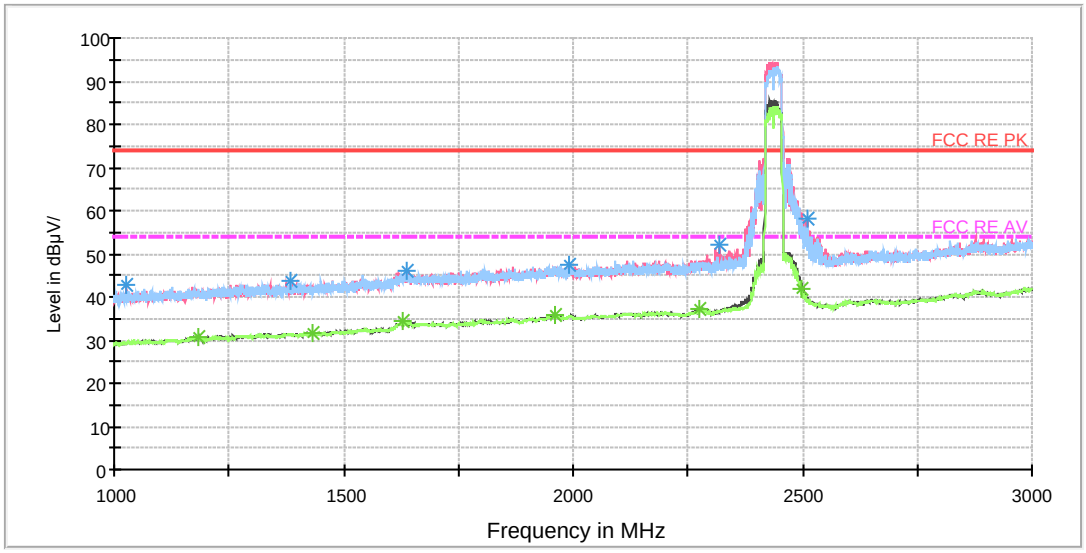
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1024.750000	42.7	101.0	V	128.0	51.8	-9.1	31.3	74
1383.000000	43.8	101.0	H	19.0	50.8	-7.0	30.2	74
1637.250000	46.3	101.0	H	32.0	51.0	-4.7	27.7	74
1989.500000	47.5	101.0	H	177.0	50.9	-3.4	26.5	74
2318.000000	52.3	101.0	V	356.0	54.1	-1.8	21.7	74
2509.500000	58.3	101.0	V	0.0	58.5	-0.2	15.7	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1181.750000	30.7	101.0	H	0.0	38.7	-8.0	23.3	54
1431.000000	31.8	101.0	V	128.0	38.7	-6.9	22.2	54
1630.500000	34.2	101.0	V	289.0	38.9	-4.7	19.8	54
1959.500000	35.8	101.0	V	0.0	39.0	-3.2	18.2	54
2275.250000	37.0	101.0	H	287.0	38.5	-1.5	17.0	54
2498.750000	42.1	101.0	V	0.0	42.2	-0.1	11.9	54

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

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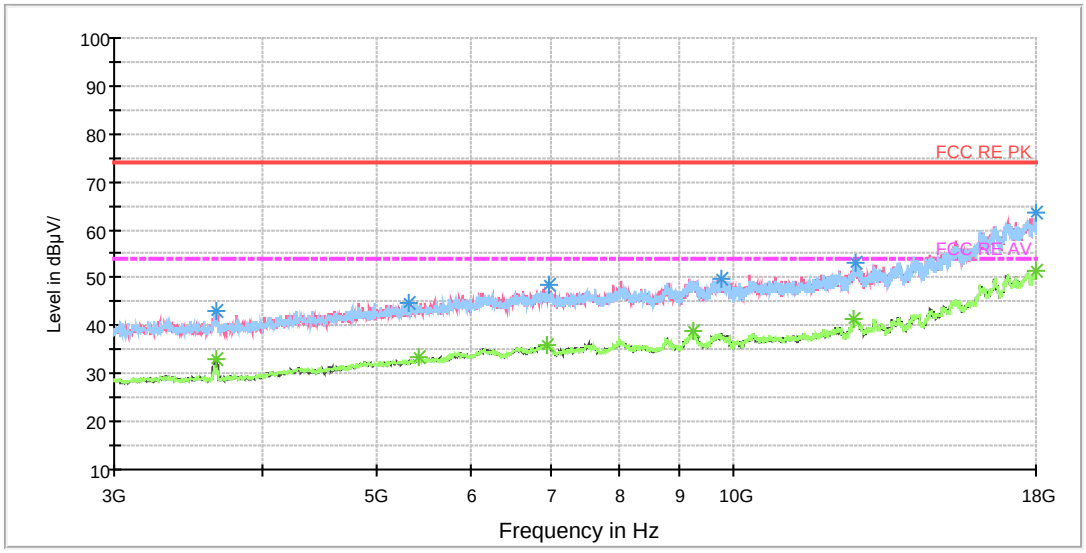
RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3652.500000	43.0	101.0	V	0.0	44.9	-1.9	31.0	74
5323.125000	44.9	101.0	H	95.0	47.3	2.4	29.1	74
6993.750000	48.3	101.0	H	95.0	54.8	6.5	25.7	74
9750.000000	49.8	101.0	V	157.0	59.6	9.8	24.2	74
12665.625000	53.3	101.0	H	110.0	67.2	13.9	20.7	74
17970.000000	63.7	101.0	H	34.0	88.5	24.8	10.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3652.500000	33.0	101.0	V	0.0	34.9	-1.9	21.0	54
5431.875000	33.3	101.0	H	187.0	36.1	2.8	20.7	54
6954.375000	35.9	101.0	H	34.0	42.1	6.2	18.1	54
9245.625000	38.8	101.0	V	0.0	48.6	9.8	15.2	54
12646.875000	41.6	101.0	V	142.0	55.9	14.3	12.4	54
17996.250000	51.4	101.0	H	0.0	76.8	25.4	2.6	54

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

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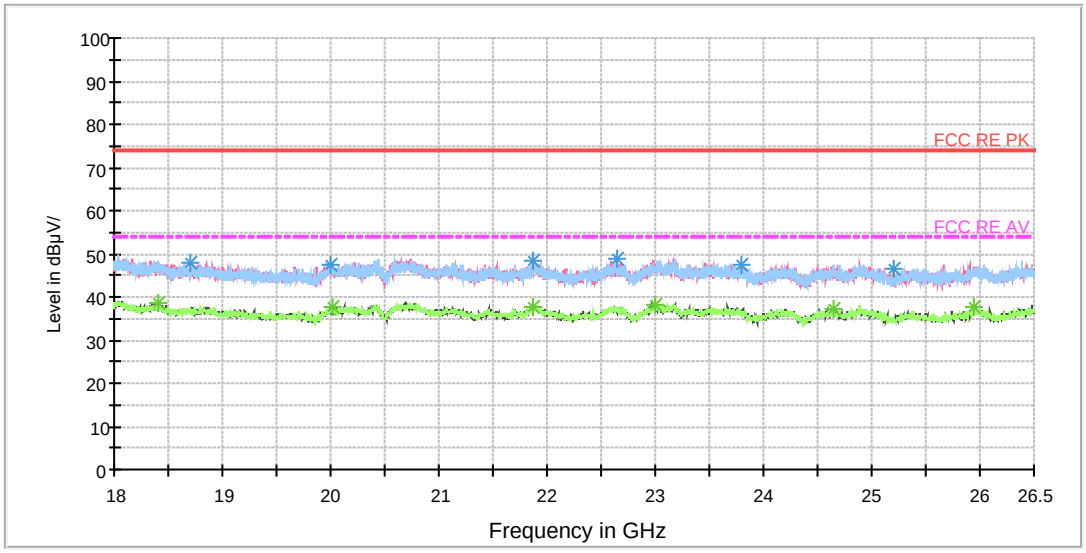
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18708.687500	47.8	H	85.0	52.2	-4.4	26.2	74
19991.125000	47.5	V	351.0	53.2	-5.7	26.5	74
21879.187500	48.2	V	290.0	56.2	-8.0	25.8	74
22653.750000	49.1	H	227.0	55.7	-6.6	24.9	74
23800.187500	47.2	V	266.0	53.1	-5.9	26.8	74
25208.000000	46.4	V	123.0	52.2	-5.8	27.6	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18400.562500	38.6	H	160.0	42.1	-3.5	15.4	54
20014.500000	37.7	H	0.0	43.4	-5.7	16.3	54
21878.125000	37.8	V	0.0	45.8	-8.0	16.2	54
22995.875000	38.3	H	121.0	44.5	-6.2	15.7	54
24641.687500	37.1	V	314.0	43.1	-6.0	16.9	54
25936.875000	37.5	V	203.0	42.9	-5.4	16.5	54

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

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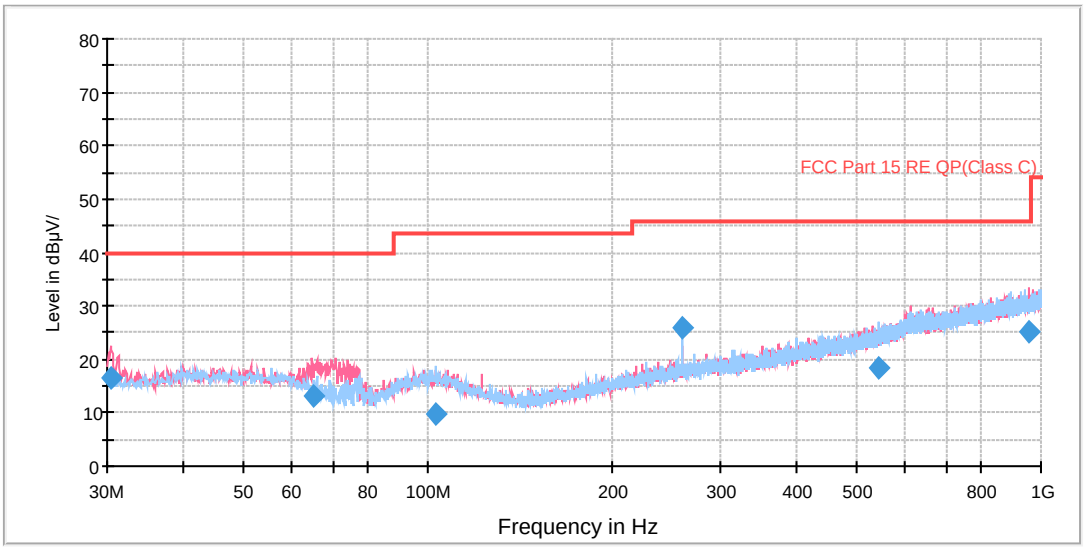
802.11n (HT40) CH9

FCC RE 0.03-1GHz QP Class C



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.520000	16.6	100.0	V	25.0	28.5	11.9	23.4	40.0
64.958750	13.3	100.0	V	174.0	23.9	10.6	26.7	40.0
103.112500	9.7	225.0	H	219.0	22.6	12.9	33.8	43.5
260.011250	25.7	100.0	H	291.0	40.1	14.4	20.3	46.0
544.985000	18.3	100.0	H	17.0	39.2	20.9	27.7	46.0
955.333750	25.2	100.0	V	196.0	51.3	26.1	20.8	46.0

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

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

3. Margin = Limit – Quasi-Peak

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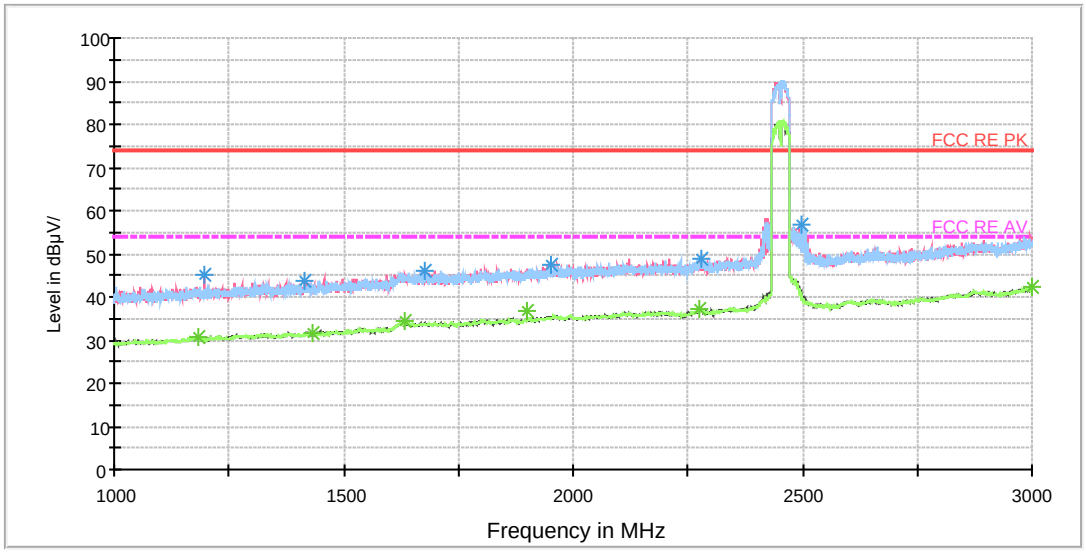
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1195.500000	45.1	101.0	V	0.0	53.3	-8.2	28.9	74
1416.750000	43.8	101.0	V	210.0	50.8	-7.0	30.2	74
1677.250000	46.2	101.0	H	81.0	51.3	-5.1	27.8	74
1953.000000	47.6	101.0	H	176.0	51.2	-3.6	26.4	74
2280.750000	49.0	101.0	V	0.0	50.3	-1.3	25.0	74
2498.750000	56.7	101.0	V	0.0	56.8	-0.1	17.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1183.750000	30.7	101.0	H	15.0	38.8	-8.1	23.3	54
1431.250000	31.8	101.0	H	108.0	38.7	-6.9	22.2	54
1632.250000	34.3	101.0	H	0.0	39.0	-4.7	19.7	54
1901.000000	36.6	101.0	V	0.0	40.5	-3.9	17.4	54
2274.250000	37.2	101.0	H	286.0	38.7	-1.5	16.8	54
2998.750000	42.1	101.0	V	129.0	44.4	2.3	11.9	54

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

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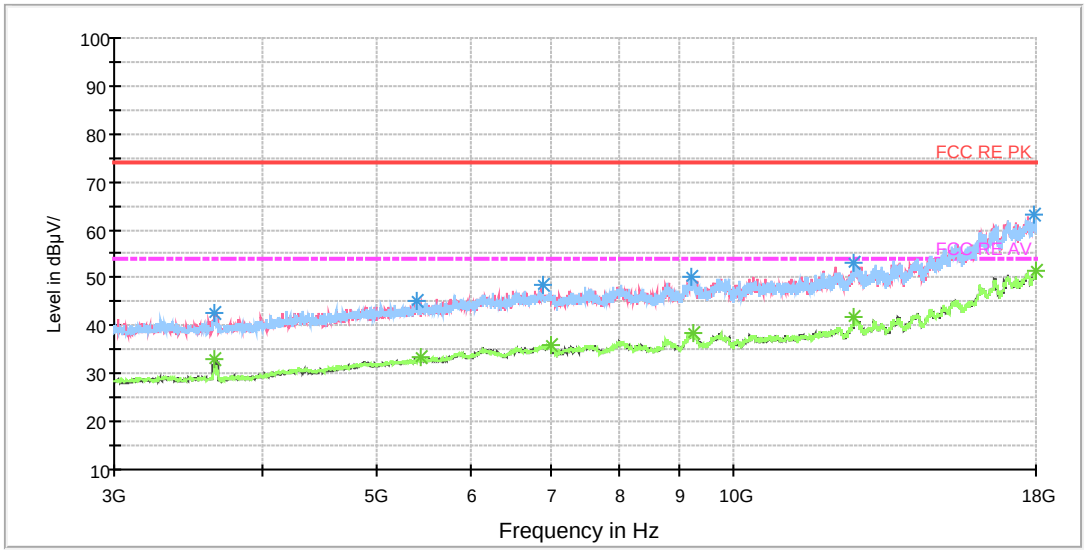
RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3645.000000	42.7	101.0	V	0.0	44.6	-1.9	31.3	74
5394.375000	45.4	101.0	H	48.0	47.8	2.4	28.6	74
6915.000000	48.5	101.0	V	339.0	54.7	6.2	25.5	74
9225.000000	50.3	101.0	V	156.0	60.2	9.9	23.7	74
12648.750000	53.2	101.0	H	185.0	67.4	14.2	20.8	74
17919.375000	63.1	101.0	V	310.0	88.9	25.8	10.9	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3648.750000	32.9	101.0	V	110.0	34.8	-1.9	21.1	54
5439.375000	33.2	101.0	V	125.0	36.1	2.9	20.8	54
7006.875000	36.2	101.0	H	3.0	42.7	6.5	17.8	54
9241.875000	38.6	101.0	H	139.0	48.5	9.9	15.4	54
12645.000000	41.7	101.0	H	3.0	56.1	14.4	12.3	54
17998.125000	51.4	101.0	V	0.0	76.8	25.4	2.6	54

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

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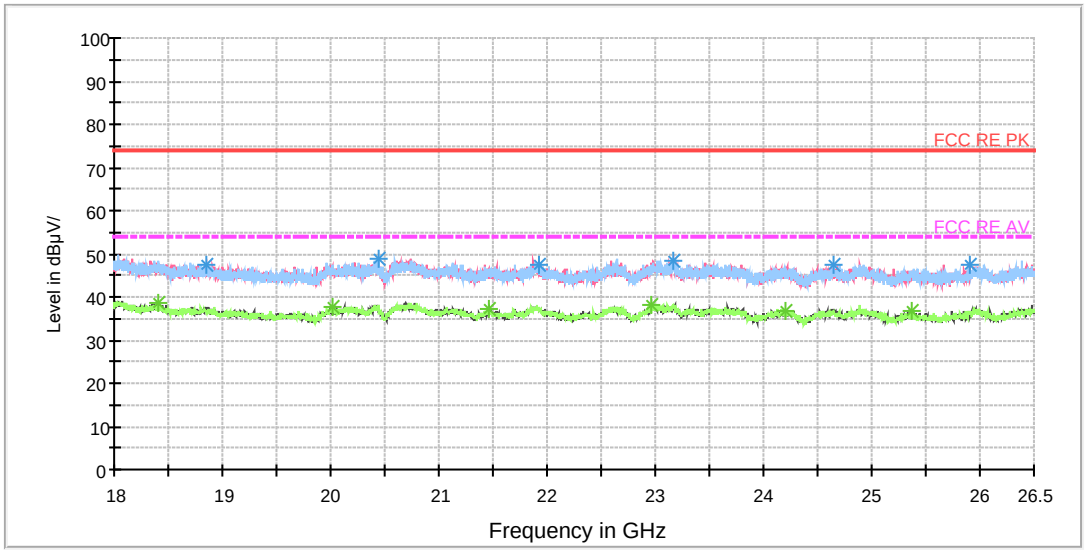
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18843.625000	47.4	V	0.0	52.1	-4.7	26.6	74
20441.625000	48.7	H	60.0	54.8	-6.1	25.3	74
21920.625000	47.6	V	123.0	55.6	-8.0	26.4	74
23164.812500	48.3	V	302.0	54.4	-6.1	25.7	74
24645.937500	47.4	H	47.0	53.4	-6.0	26.6	74
25898.625000	47.3	V	327.0	52.7	-5.4	26.7	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18400.562500	38.6	H	160.0	42.1	-3.5	15.4	54
20014.500000	37.7	H	0.0	43.4	-5.7	16.3	54
21457.375000	37.1	H	0.0	45.1	-8.0	16.9	54
22954.437500	38.1	V	240.0	44.3	-6.2	15.9	54
24202.875000	36.9	H	318.0	42.8	-5.9	17.1	54
25369.500000	36.9	H	110.0	42.7	-5.8	17.1	54

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

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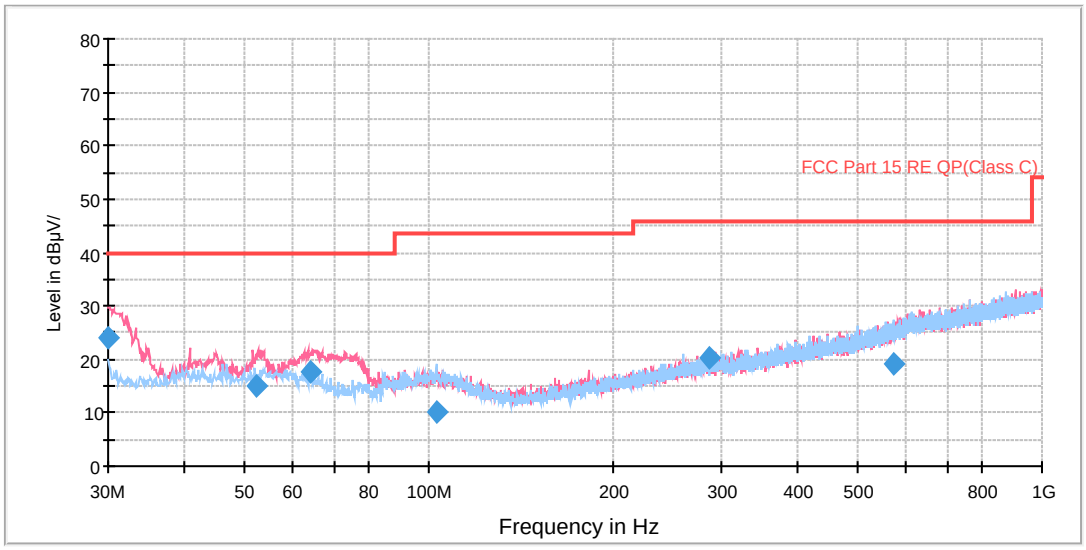
BLE-Channel 0

FCC RE 0.03-1GHz QP Class C



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.040000	24.0	100.0	V	43.0	35.9	11.9	16.0	40.0
52.263750	15.1	100.0	V	188.0	28.0	12.9	24.9	40.0
64.065000	17.5	100.0	V	164.0	28.4	10.9	22.5	40.0
103.350000	10.1	200.0	H	31.0	23.0	12.9	33.4	43.5
285.998750	20.5	100.0	H	290.0	35.5	15.0	25.5	46.0
572.266250	19.2	100.0	H	22.0	40.8	21.6	26.8	46.0

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

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

3. Margin = Limit – Quasi-Peak

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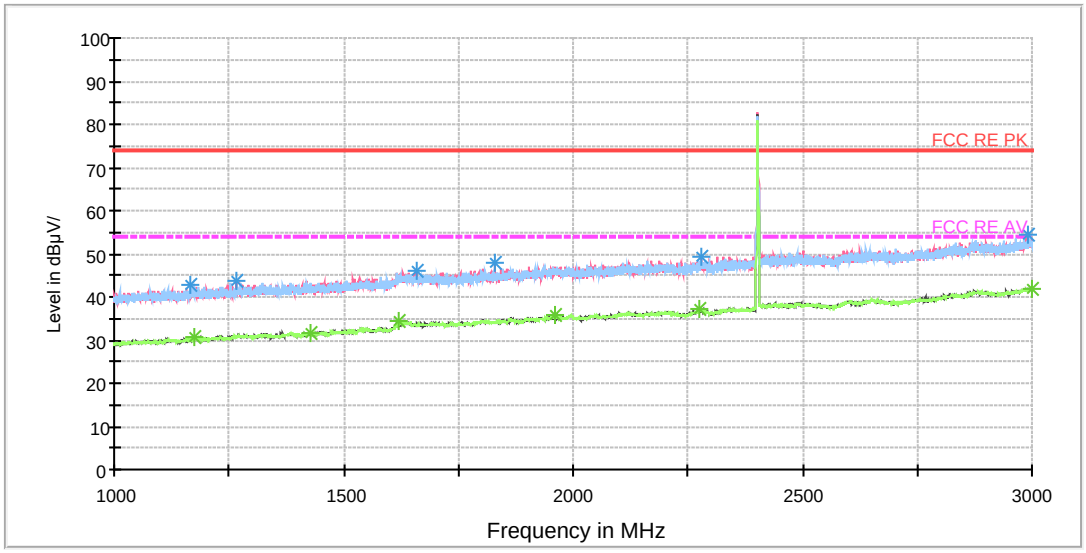
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1166.500000	42.9	101.0	H	53.0	51.1	-8.2	31.1	74
1266.500000	43.8	101.0	V	238.0	51.5	-7.7	30.2	74
1657.750000	46.0	101.0	V	129.0	51.2	-5.2	28.0	74
1831.500000	47.7	101.0	V	0.0	52.1	-4.4	26.3	74
2280.750000	49.1	101.0	V	278.0	50.4	-1.3	24.9	74
2991.750000	54.6	101.0	H	92.0	56.8	2.2	19.4	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1176.500000	30.9	101.0	V	346.0	38.9	-8.0	23.1	54
1429.000000	31.8	101.0	H	175.0	38.7	-6.9	22.2	54
1620.250000	34.3	101.0	V	143.0	39.1	-4.8	19.7	54
1960.500000	35.9	101.0	V	225.0	39.1	-3.2	18.1	54
2274.000000	37.4	101.0	H	53.0	38.9	-1.5	16.6	54
2999.250000	42.1	101.0	H	120.0	44.4	2.3	11.9	54

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

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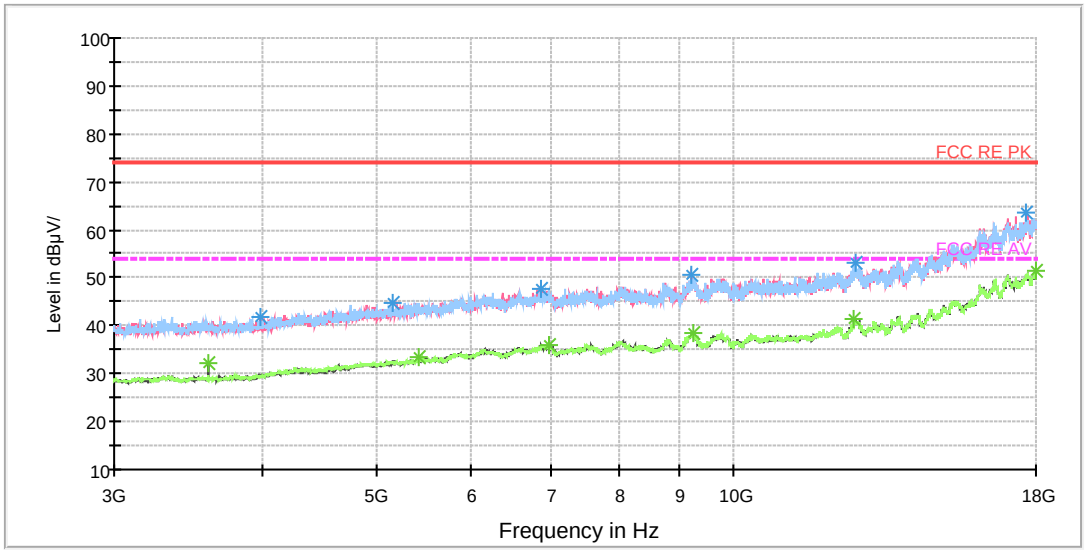
RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3982.500000	42.0	101.0	V	0.0	43.0	-1.0	32.0	74
5156.250000	44.9	101.0	H	94.0	46.9	2.0	29.1	74
6864.375000	47.8	101.0	V	206.0	53.7	5.9	26.2	74
9228.750000	50.6	101.0	V	357.0	60.5	9.9	23.4	74
12661.875000	53.1	101.0	V	190.0	66.9	13.8	20.9	74
17685.000000	63.6	101.0	H	231.0	88.2	24.6	10.4	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3601.875000	32.1	101.0	V	342.0	34.3	-2.2	21.9	54
5430.000000	33.3	101.0	V	357.0	36.1	2.8	20.7	54
6975.000000	36.0	101.0	V	0.0	42.3	6.3	18.0	54
9240.000000	38.4	101.0	H	109.0	48.3	9.9	15.6	54
12635.625000	41.6	101.0	H	64.0	55.7	14.1	12.4	54
18000.000000	51.5	101.0	V	236.0	77.0	25.5	2.5	54

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

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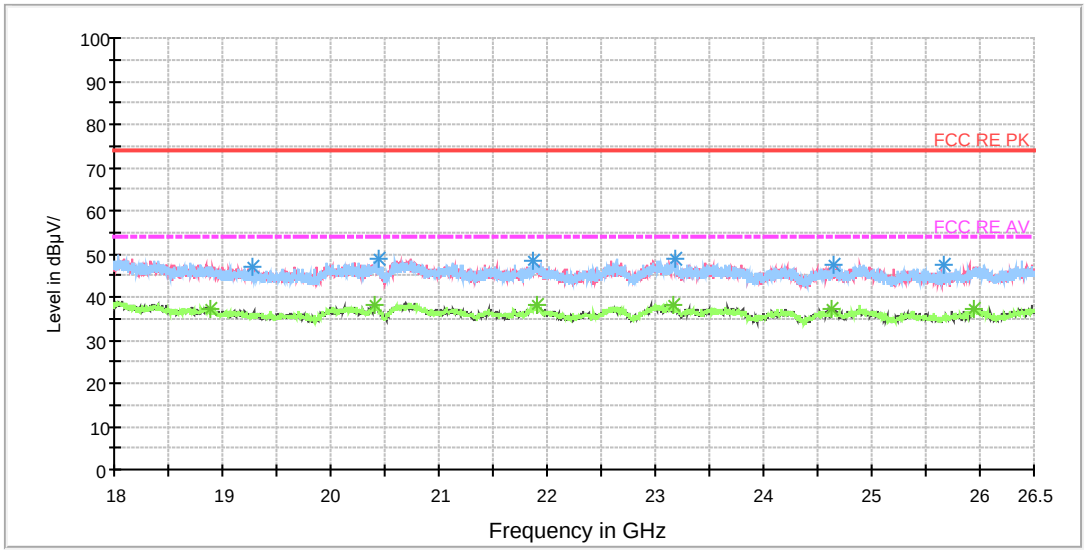
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19273.937500	47.1	H	0.0	52.8	-5.7	26.9	74
20441.625000	48.7	H	60.0	54.8	-6.1	25.3	74
21879.187500	48.2	V	290.0	56.2	-8.0	25.8	74
23186.062500	48.6	H	121.0	54.6	-6.0	25.4	74
24645.937500	47.4	H	47.0	53.4	-6.0	26.6	74
25670.187500	47.3	V	178.0	52.9	-5.6	26.7	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18880.812500	37.4	V	278.0	42.2	-4.8	16.6	54
20415.062500	38.0	V	58.0	44.1	-6.1	16.0	54
21906.812500	37.9	H	23.0	45.9	-8.0	16.1	54
23171.187500	38.2	V	0.0	44.3	-6.1	15.8	54
24636.375000	37.4	V	166.0	43.4	-6.0	16.6	54
25944.312500	37.4	H	279.0	42.8	-5.4	16.6	54

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

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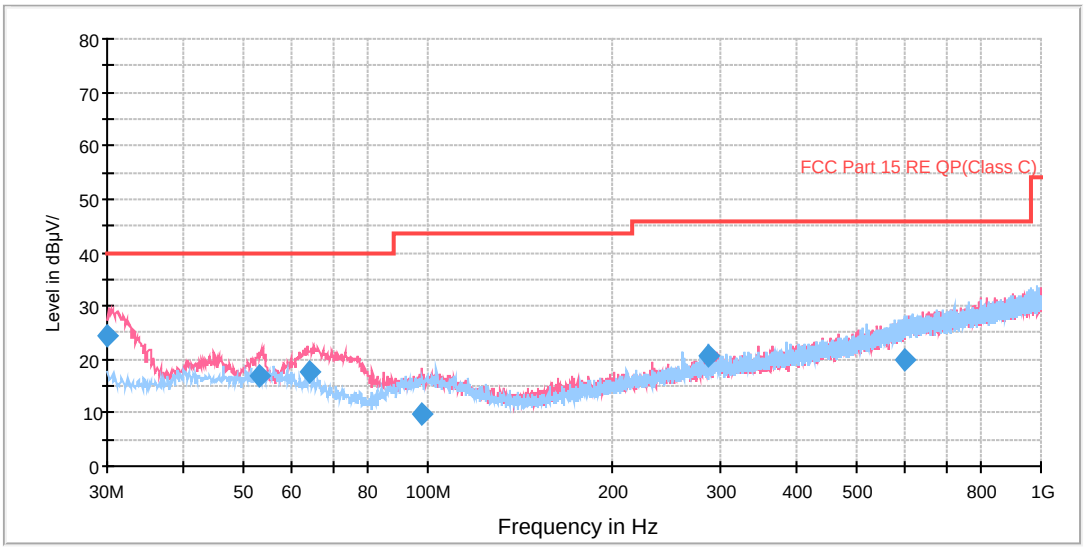
BLE-Channel 19

FCC RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.080000	24.2	100.0	V	131.0	36.1	11.9	15.8	40.0
53.285000	17.0	100.0	V	44.0	29.8	12.8	23.0	40.0
64.307500	17.5	100.0	V	164.0	28.3	10.8	22.5	40.0
97.498750	9.8	125.0	V	232.0	22.7	12.9	33.7	43.5
285.998750	20.8	100.0	H	96.0	35.8	15.0	25.2	46.0
598.980000	20.1	100.0	H	316.0	42.2	22.1	25.9	46.0

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

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

3. Margin = Limit – Quasi-Peak

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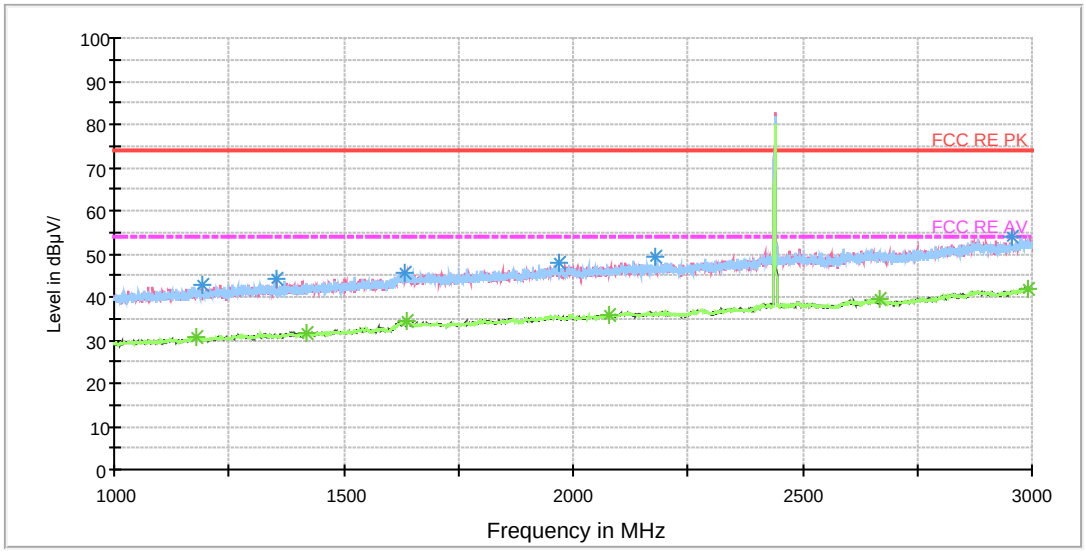
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1190.250000	43.0	101.0	V	263.0	51.2	-8.2	31.0	74
1354.750000	44.0	101.0	V	276.0	51.5	-7.5	30.0	74
1633.500000	45.7	101.0	V	0.0	50.4	-4.7	28.3	74
1968.250000	47.9	101.0	V	0.0	51.4	-3.5	26.1	74
2180.250000	49.2	101.0	H	22.0	51.5	-2.3	24.8	74
2956.000000	54.0	101.0	V	210.0	56.1	2.1	20.0	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1178.000000	30.9	101.0	H	0.0	38.9	-8.0	23.1	54
1420.500000	31.8	101.0	V	250.0	38.7	-6.9	22.2	54
1636.750000	34.5	101.0	V	182.0	39.2	-4.7	19.5	54
2079.500000	35.8	101.0	V	356.0	38.8	-3.0	18.2	54
2666.500000	39.4	101.0	V	224.0	39.7	0.3	14.6	54
2992.750000	42.0	101.0	H	131.0	44.2	2.2	12.0	54

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

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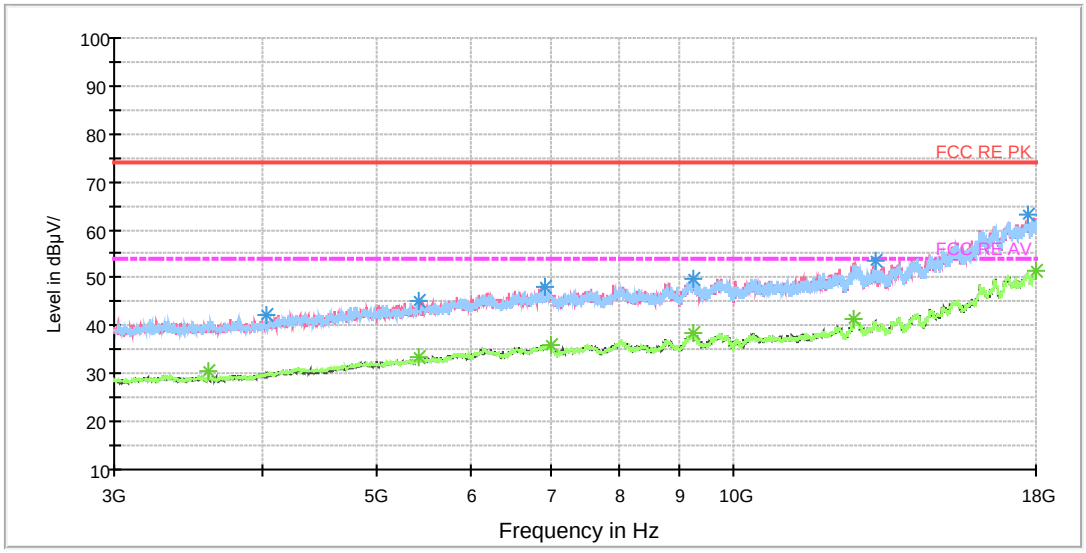
RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4036.875000	42.1	101.0	H	97.0	43.1	-1.0	31.9	74
5422.500000	45.3	101.0	V	0.0	48.0	2.7	28.7	74
6930.000000	48.2	101.0	V	0.0	54.4	6.2	25.8	74
9243.750000	49.9	101.0	V	191.0	59.7	9.8	24.1	74
13183.125000	53.7	101.0	H	38.0	67.4	13.7	20.3	74
17707.500000	63.1	101.0	V	0.0	87.8	24.7	10.9	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3601.875000	30.6	101.0	V	206.0	32.8	-2.2	23.4	54
5426.250000	33.3	101.0	V	129.0	36.1	2.8	20.7	54
6999.375000	35.9	101.0	H	0.0	42.4	6.5	18.1	54
9240.000000	38.4	101.0	V	34.0	48.3	9.9	15.6	54
12648.750000	41.4	101.0	H	128.0	55.6	14.2	12.6	54
18000.000000	51.3	101.0	H	205.0	76.8	25.5	2.7	54

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

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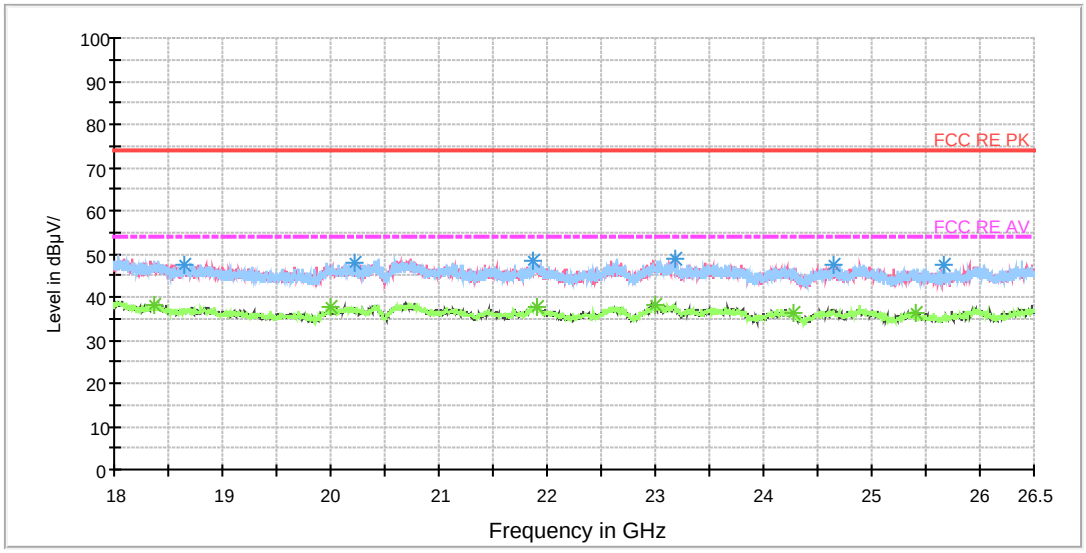
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18648.125000	47.6	V	240.0	51.8	-4.2	26.4	74
20216.375000	48.1	V	111.0	54.0	-5.9	25.9	74
21879.187500	48.2	V	290.0	56.2	-8.0	25.8	74
23186.062500	48.6	H	121.0	54.6	-6.0	25.4	74
24645.937500	47.4	H	47.0	53.4	-6.0	26.6	74
25670.187500	47.3	V	178.0	52.9	-5.6	26.7	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18368.687500	37.9	V	97.0	41.3	-3.4	16.1	54
20004.937500	37.6	V	240.0	43.3	-5.7	16.4	54
21903.625000	37.7	V	278.0	45.7	-8.0	16.3	54
22995.875000	38.3	H	121.0	44.5	-6.2	15.7	54
24286.812500	36.4	H	201.0	42.4	-6.0	17.6	54
25406.687500	36.3	V	339.0	42.1	-5.8	17.7	54

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

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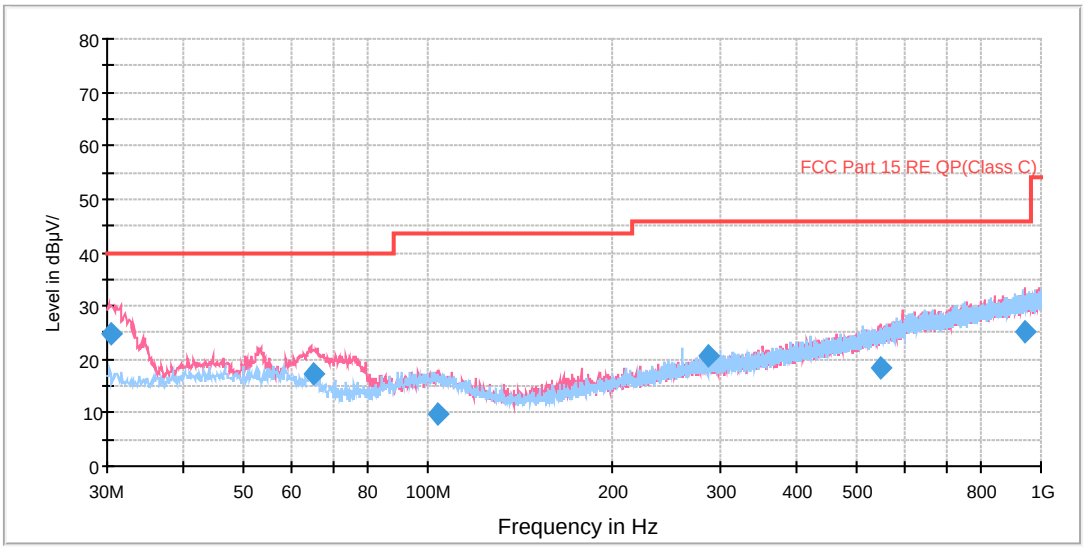
BLE-Channel 39

FCC RE 0.03-1GHz QP Class C



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.360000	24.8	100.0	V	72.0	36.7	11.9	15.2	40.0
64.915000	17.3	100.0	V	226.0	27.9	10.6	22.7	40.0
103.522500	9.8	175.0	V	327.0	22.7	12.9	33.7	43.5
285.998750	20.6	100.0	H	92.0	35.6	15.0	25.4	46.0
546.723750	18.4	200.0	V	331.0	39.3	20.9	27.6	46.0
944.231250	25.3	125.0	V	22.0	51.4	26.1	20.7	46.0

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

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

3. Margin = Limit – Quasi-Peak

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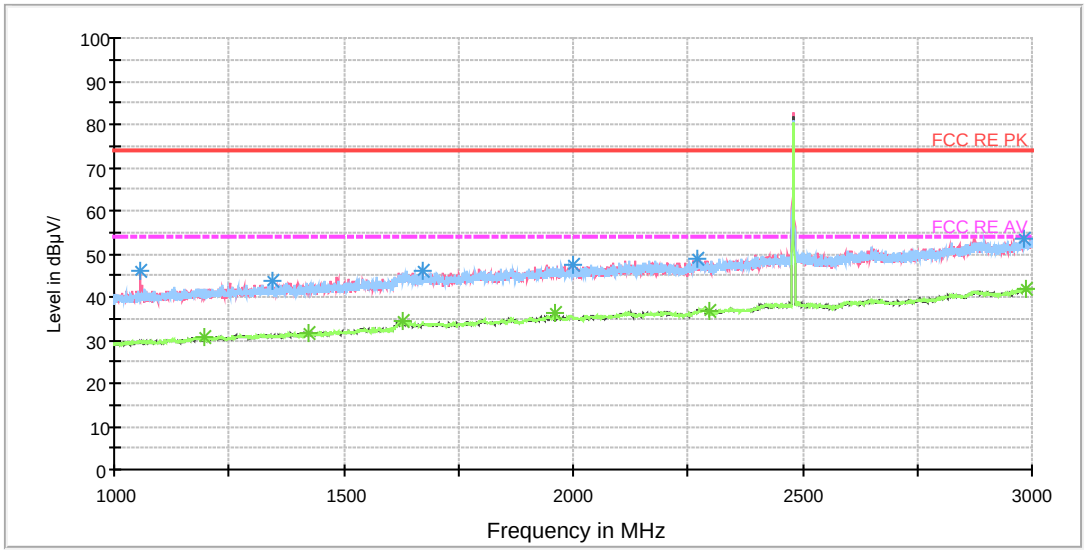
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1055.500000	46.3	101.0	V	294.0	55.3	-9.0	27.7	74
1344.250000	43.9	101.0	H	80.0	51.4	-7.5	30.1	74
1674.250000	46.2	101.0	V	0.0	51.3	-5.1	27.8	74
1999.500000	47.6	101.0	V	213.0	51.0	-3.4	26.4	74
2269.250000	48.7	101.0	V	348.0	50.4	-1.7	25.3	74
2984.250000	53.7	101.0	V	0.0	55.9	2.2	20.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.250000	30.7	101.0	H	203.0	38.9	-8.2	23.3	54
1422.750000	31.8	101.0	V	321.0	38.7	-6.9	22.2	54
1629.250000	34.2	101.0	V	294.0	38.9	-4.7	19.8	54
1960.000000	36.1	101.0	V	0.0	39.3	-3.2	17.9	54
2298.250000	36.6	101.0	H	203.0	38.7	-2.1	17.4	54
2987.250000	41.9	101.0	H	40.0	44.1	2.2	12.1	54

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

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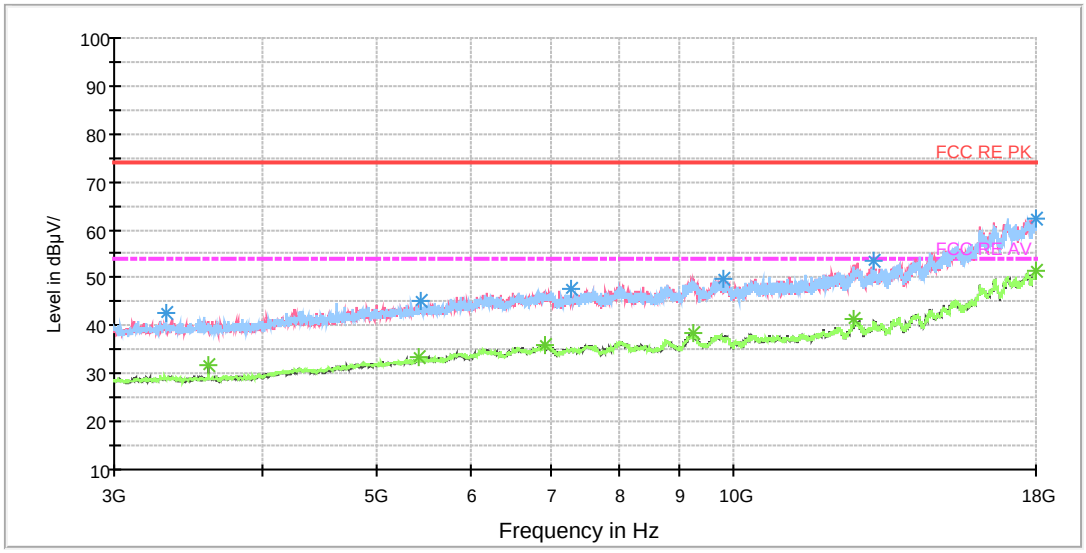
RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3318.750000	42.6	101.0	H	37.0	44.7	-2.1	31.4	74
5448.750000	45.2	101.0	V	343.0	48.0	2.8	28.8	74
7301.250000	47.6	101.0	V	252.0	54.6	7.0	26.4	74
9806.250000	49.9	101.0	V	222.0	59.8	9.9	24.1	74
13143.750000	53.5	101.0	H	220.0	67.8	14.3	20.5	74
17981.250000	62.4	101.0	V	0.0	87.4	25.0	11.6	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3601.875000	31.6	101.0	V	343.0	33.8	-2.2	22.4	54
5426.250000	33.3	101.0	H	265.0	36.1	2.8	20.7	54
6922.500000	36.0	101.0	H	22.0	42.2	6.2	18.0	54
9247.500000	38.6	101.0	V	237.0	48.3	9.7	15.4	54
12643.125000	41.5	101.0	V	146.0	55.9	14.4	12.5	54
17998.125000	51.3	101.0	V	343.0	76.7	25.4	2.7	54

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

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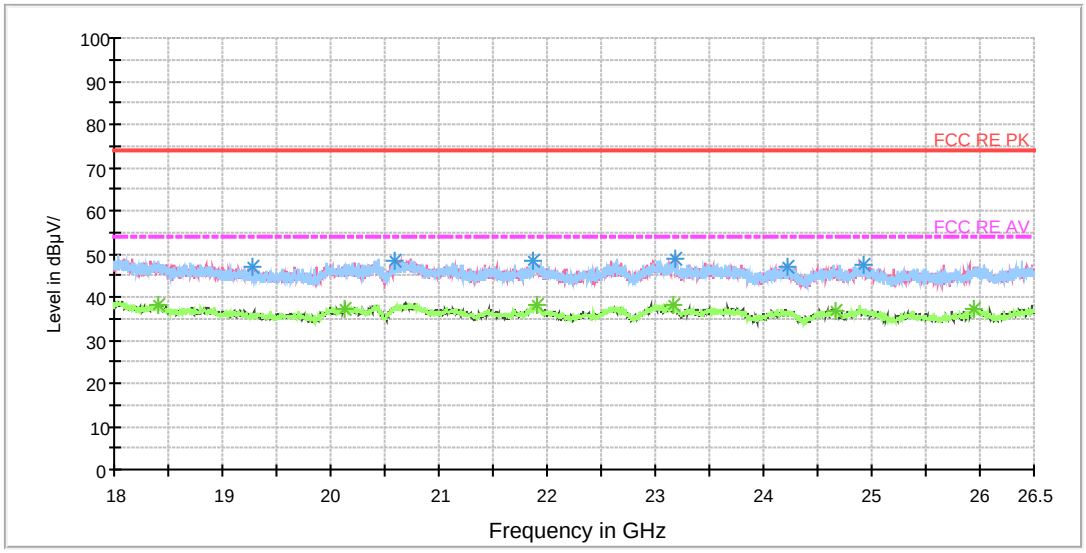
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19273.937500	47.1	H	0.0	52.8	-5.7	26.9	74
20601.000000	48.5	H	10.0	54.9	-6.4	25.5	74
21879.187500	48.2	V	290.0	56.2	-8.0	25.8	74
23186.062500	48.6	H	121.0	54.6	-6.0	25.4	74
24213.500000	47.2	V	290.0	53.1	-5.9	26.8	74
24921.125000	47.4	H	97.0	53.3	-5.9	26.6	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18409.062500	38.0	V	216.0	41.5	-3.5	16.0	54
20134.562500	37.4	V	351.0	43.2	-5.8	16.6	54
21906.812500	37.9	H	23.0	45.9	-8.0	16.1	54
23171.187500	38.2	V	0.0	44.3	-6.1	15.8	54
24667.187500	36.7	V	228.0	42.7	-6.0	17.3	54
25944.312500	37.4	H	279.0	42.8	-5.4	16.6	54

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

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5.8. Conducted Emission

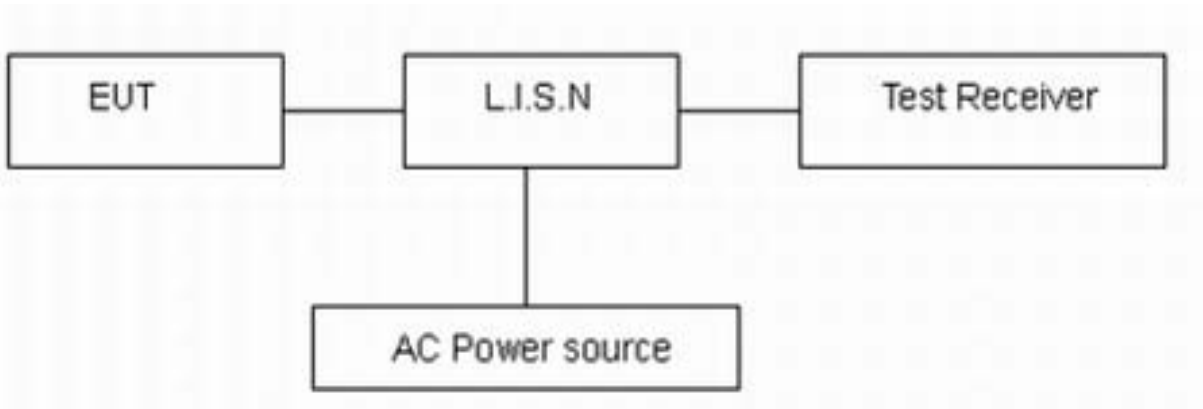
Ambient condition

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

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2013. Connect the AC power line of the EUT to the 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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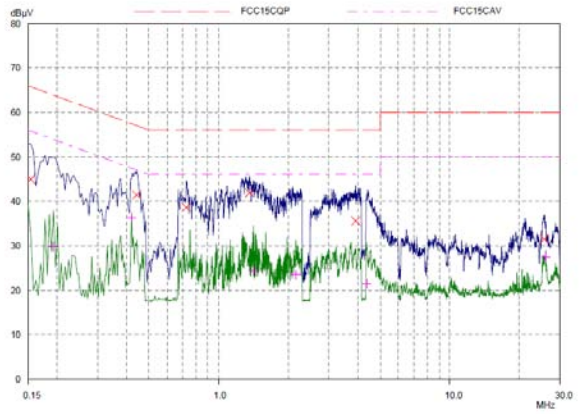
Test Results:

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

802.11b, Channel No.: 1

L Line

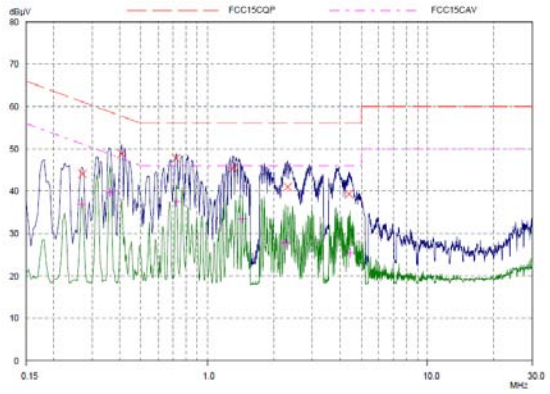


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.1539	44.92	65.79	20.87	L1	gnd
0.44296	41.43	57.01	15.58	L1	gnd
0.72421	38.59	56.00	17.41	L1	gnd
1.36093	41.85	56.00	14.15	L1	gnd
3.91953	35.54	56.00	20.46	L1	gnd
25.60703	31.50	60.00	28.50	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.19296	29.78	53.91	24.13	L1	gnd
0.41953	36.38	47.46	11.08	L1	gnd
1.41171	24.32	46.00	21.68	L1	gnd
2.16171	23.45	46.00	22.55	L1	gnd
4.36093	21.47	46.00	24.53	L1	gnd
25.99765	27.42	50.00	22.58	L1	gnd

N Line



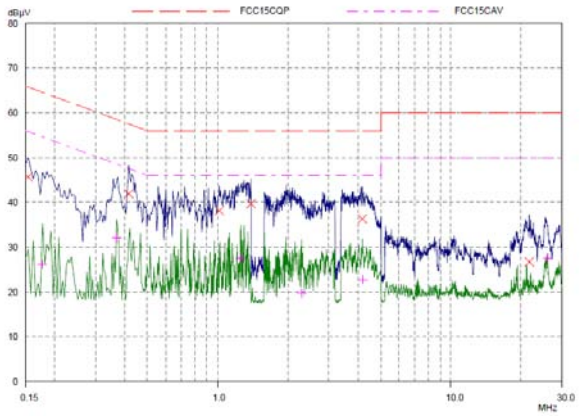
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.27109	44.13	61.08	16.95	N	gnd
0.40781	48.82	57.69	8.87	N	gnd
0.72031	47.79	56.00	8.21	N	gnd
1.31015	45.44	56.00	10.56	N	gnd
2.31406	41.00	56.00	15.00	N	gnd
4.39609	39.31	56.00	16.69	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.26718	36.96	51.21	14.25	N	gnd
0.36093	39.72	48.71	8.99	N	gnd
0.72031	37.41	46.00	8.59	N	gnd
1.44296	33.45	46.00	12.55	N	gnd
2.26718	27.82	46.00	18.18	N	gnd
4.43906	25.43	46.00	20.57	N	gnd

802.11b, Channel No.: 6

L Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.1539	45.68	65.79	20.11	L1	gnd
0.41562	41.91	57.54	15.63	L1	gnd
1.01718	38.12	56.00	17.88	L1	gnd
1.38828	39.69	56.00	16.31	L1	gnd
4.16561	36.30	56.00	19.70	L1	gnd
21.64218	26.69	60.00	33.31	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.17734	26.09	54.61	28.52	L1	gnd
0.36875	31.97	48.53	16.56	L1	gnd
1.25937	27.48	46.00	18.52	L1	gnd
2.28671	19.70	46.00	26.30	L1	gnd
4.18125	22.71	46.00	23.29	L1	gnd
25.99765	27.49	50.00	22.51	L1	gnd

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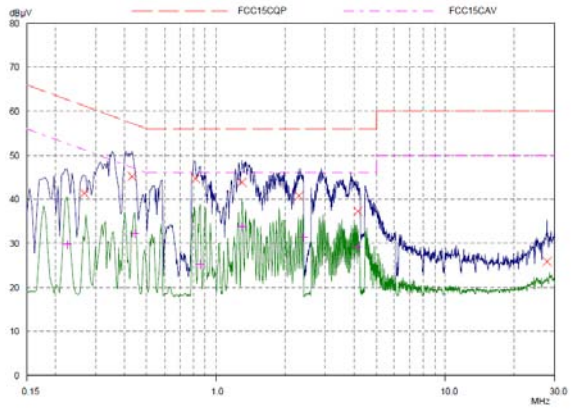
N Line



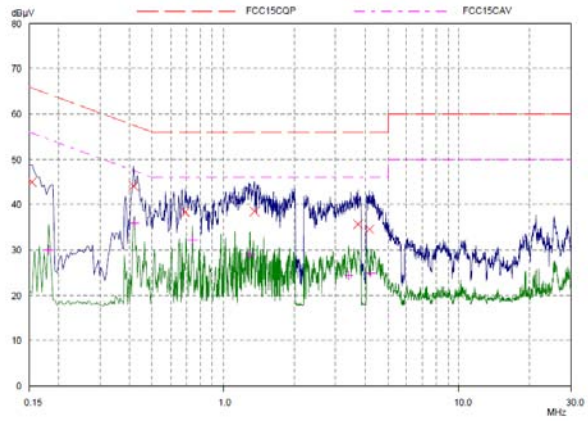
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.26718	41.37	61.21	19.84	N	gnd
0.43125	45.21	57.23	12.02	N	gnd
0.81406	44.69	56.00	11.31	N	gnd
1.29843	43.86	56.00	12.14	N	gnd
2.30234	40.76	56.00	15.24	N	gnd
4.1539	37.24	56.00	18.76	N	gnd
27.69296	25.82	60.00	34.18	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.22421	29.76	52.66	22.90	N	gnd
0.44296	32.15	47.01	14.86	N	gnd
0.85312	25.23	46.00	20.77	N	gnd
1.29843	33.82	46.00	12.18	N	gnd
2.39218	31.33	46.00	14.67	N	gnd
4.11484	29.20	46.00	16.80	N	gnd

802.11b, Channel No.: 11

L Line

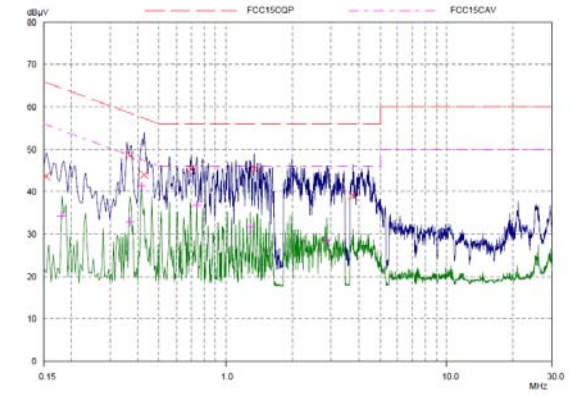


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.1539	44.98	65.79	20.81	L1	gnd
0.41562	44.09	57.54	13.45	L1	gnd
0.68906	38.35	56.00	17.65	L1	gnd
1.35703	38.49	56.00	17.51	L1	gnd
3.72812	35.67	56.00	20.33	L1	gnd
4.16171	34.56	56.00	21.44	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.18125	29.96	54.43	24.47	L1	gnd
0.41953	35.89	47.46	11.57	L1	gnd
0.73984	32.32	46.00	13.68	L1	gnd
1.30234	29.00	46.00	17.00	L1	gnd
3.4039	24.35	46.00	21.65	L1	gnd
4.23593	24.92	46.00	21.08	L1	gnd

N Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.1539	43.62	65.79	22.17	N	gnd
0.36875	48.48	58.53	10.05	N	gnd
0.42734	43.97	57.30	13.33	N	gnd
0.69687	45.33	56.00	10.67	N	gnd
1.34531	45.33	56.00	10.67	N	gnd
3.75937	39.03	56.00	16.97	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.18125	34.31	54.43	20.12	N	gnd
0.36875	32.91	48.53	15.62	N	gnd
0.41562	41.25	47.54	6.29	N	gnd
0.73984	36.82	46.00	9.18	N	gnd
1.29062	31.72	46.00	14.28	N	gnd
2.86875	28.50	46.00	17.50	N	gnd

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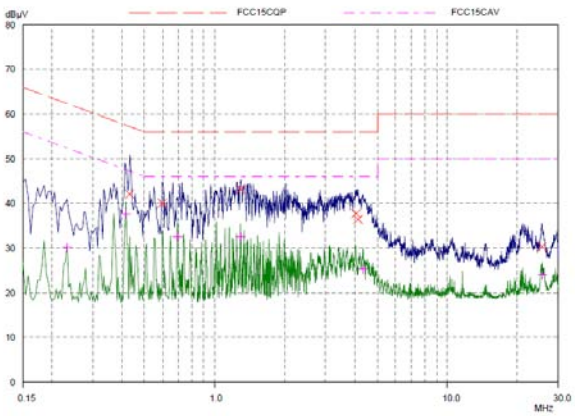
802.11g, Channel No.: 1

L Line

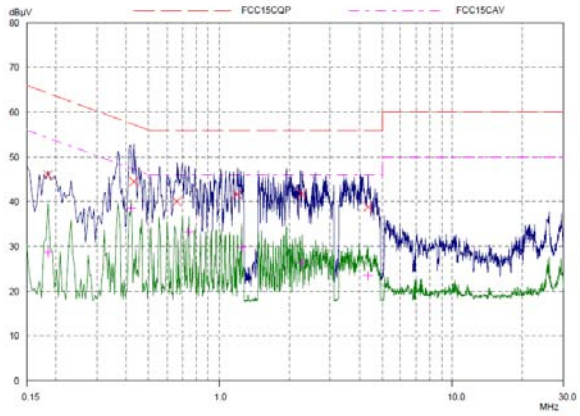


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.43125	42.03	57.23	15.20	L1	gnd
0.59531	40.02	56.00	15.98	L1	gnd
1.29453	43.14	56.00	12.86	L1	gnd
4.05234	37.72	56.00	18.28	L1	gnd
4.13436	36.38	56.00	19.62	L1	gnd
25.52109	30.33	60.00	29.67	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.23203	30.08	52.38	22.30	L1	gnd
0.41562	37.64	47.54	9.90	L1	gnd
0.69296	32.51	46.00	13.49	L1	gnd
1.29062	32.50	46.00	13.50	L1	gnd
4.3414	25.43	46.00	20.57	L1	gnd
25.60703	23.93	50.00	26.07	L1	gnd

N Line



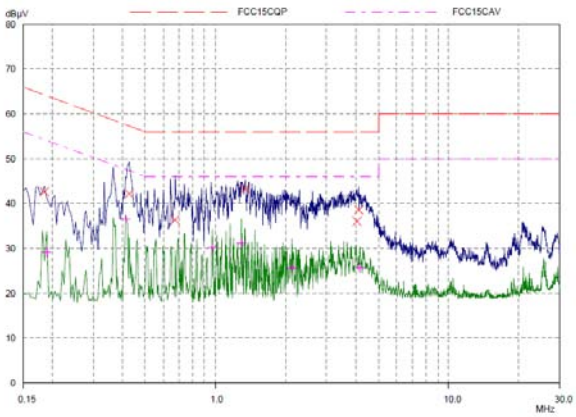
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.18515	45.97	64.25	18.28	N	gnd
0.43125	44.49	57.23	12.74	N	gnd
0.66171	40.01	56.00	15.99	N	gnd
1.19687	41.58	56.00	14.42	N	gnd
2.26328	41.72	56.00	14.28	N	gnd
4.35312	38.77	56.00	17.23	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.18515	28.58	54.25	25.67	N	gnd
0.41953	38.55	47.46	8.91	N	gnd
0.74375	33.28	46.00	12.72	N	gnd
1.25156	29.75	46.00	16.25	N	gnd
2.27109	26.31	46.00	19.69	N	gnd
4.34921	23.46	46.00	22.54	N	gnd

802.11g, Channel No.: 6

L Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.18515	42.65	64.25	21.60	L1	gnd
0.42734	42.19	57.30	15.11	L1	gnd
0.67343	36.37	56.00	19.63	L1	gnd
1.3414	43.29	56.00	12.71	L1	gnd
4.03671	36.02	56.00	19.98	L1	gnd
4.11484	38.54	56.00	17.46	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.18906	29.11	54.08	24.97	L1	gnd
0.41171	36.54	47.61	11.07	L1	gnd
0.97031	30.09	46.00	15.91	L1	gnd
1.29453	31.16	46.00	14.84	L1	gnd
2.13046	25.52	46.00	20.48	L1	gnd
4.16953	25.70	46.00	20.30	L1	gnd

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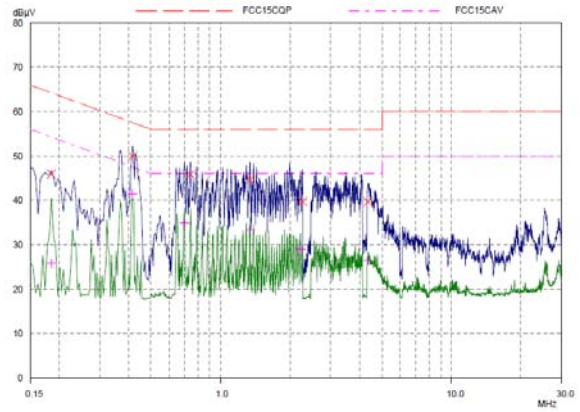
N Line



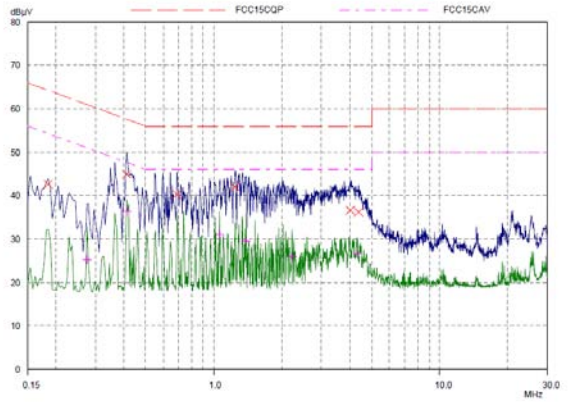
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.18515	45.89	64.25	18.36	N	gnd
0.41562	49.97	57.54	7.57	N	gnd
0.73984	45.79	56.00	10.21	N	gnd
1.3414	44.67	56.00	11.33	N	gnd
2.26328	39.74	56.00	16.26	N	gnd
4.35703	39.65	56.00	16.35	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.18515	25.81	54.25	28.44	N	gnd
0.41562	41.39	47.54	6.15	N	gnd
0.69687	34.93	46.00	11.07	N	gnd
1.3414	33.34	46.00	12.66	N	gnd
2.22031	28.92	46.00	17.08	N	gnd
4.35312	26.36	46.00	19.64	N	gnd

802.11g, Channel No.: 11

L Line

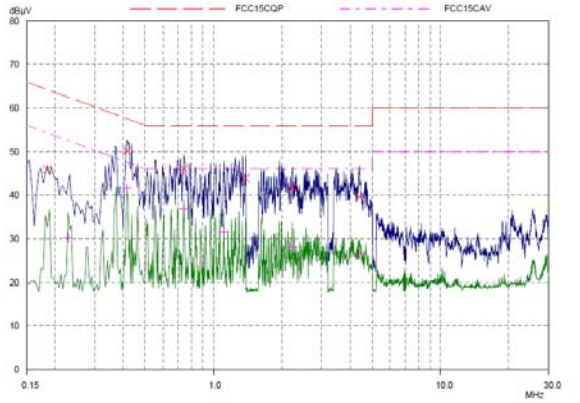


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.18515	42.59	64.25	21.66	L1	gnd
0.41171	44.93	57.61	12.68	L1	gnd
0.68515	40.23	56.00	15.77	L1	gnd
1.23984	41.96	56.00	14.04	L1	gnd
4.01717	36.56	56.00	19.44	L1	gnd
4.38437	36.19	56.00	19.81	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.275	25.21	50.97	25.76	L1	gnd
0.41171	36.38	47.61	11.23	L1	gnd
1.06015	30.94	46.00	15.06	L1	gnd
1.38828	29.46	46.00	16.54	L1	gnd
2.22031	25.86	46.00	20.14	L1	gnd
4.32968	26.55	46.00	19.45	L1	gnd

N Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.18515	45.87	64.25	18.38	N	gnd
0.41562	50.13	57.54	7.41	N	gnd
0.73984	46.03	56.00	9.97	N	gnd
1.38437	43.89	56.00	12.11	N	gnd
2.22421	41.62	56.00	14.38	N	gnd
4.39218	39.59	56.00	16.41	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.22812	30.18	52.52	22.34	N	gnd
0.41562	41.52	47.54	6.02	N	gnd
0.73984	36.75	46.00	9.25	N	gnd
1.11093	31.45	46.00	14.55	N	gnd
2.22031	28.14	46.00	17.86	N	gnd
4.38828	26.36	46.00	19.64	N	gnd

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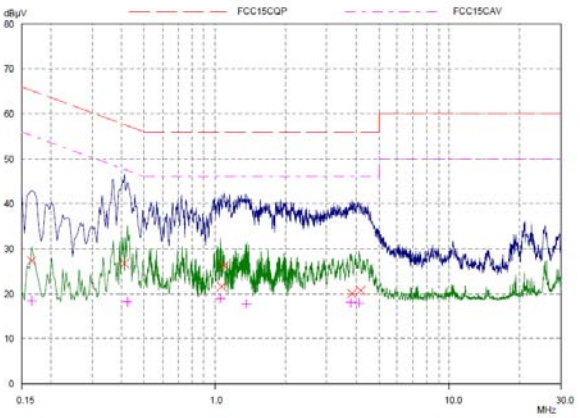
802.11n(HT20), Channel No.: 1

L Line

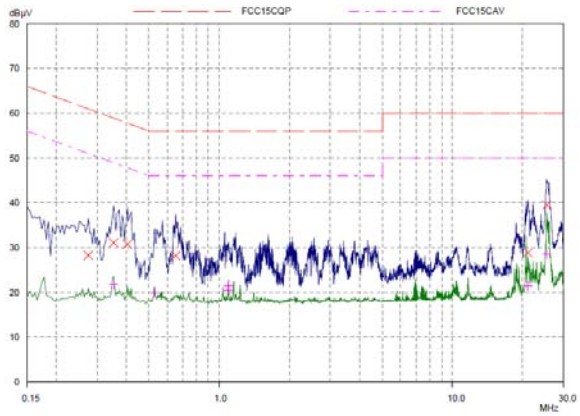


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.16562	27.31	65.18	37.87	L1	gnd
0.41171	26.71	57.61	30.90	L1	gnd
1.06796	21.60	56.00	34.40	L1	gnd
1.09531	26.24	56.00	29.76	L1	gnd
3.84531	20.02	56.00	35.98	L1	gnd
4.18515	20.72	56.00	35.28	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.16562	18.42	55.18	36.76	L1	gnd
0.42343	18.24	47.38	29.14	L1	gnd
1.05625	18.98	46.00	27.02	L1	gnd
1.36875	17.81	46.00	28.19	L1	gnd
3.80625	18.01	46.00	27.99	L1	gnd
4.11875	17.94	46.00	28.06	L1	gnd

N Line



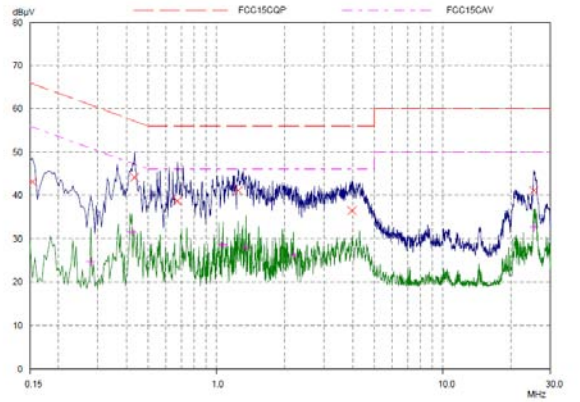
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.275	28.23	60.97	32.74	N	gnd
0.35312	31.07	58.89	27.82	N	gnd
0.4039	30.74	57.77	27.03	N	gnd
0.65	28.09	56.00	27.91	N	gnd
21.04843	28.79	60.00	31.21	N	gnd
25.39609	39.44	60.00	20.56	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.35312	21.83	48.89	27.06	N	gnd
0.5289	19.97	46.00	26.03	N	gnd
1.0914	20.34	46.00	25.66	N	gnd
1.09531	21.51	46.00	24.49	N	gnd
21.04843	21.48	50.00	28.52	N	gnd
25.3375	28.50	50.00	21.50	N	gnd

802.11n(HT20), Channel No.: 6

L Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.1539	43.12	65.79	22.67	L1	gnd
0.43515	44.15	57.15	13.00	L1	gnd
0.67343	38.67	56.00	17.33	L1	gnd
1.24765	41.10	56.00	14.90	L1	gnd
3.97421	36.44	56.00	19.56	L1	gnd
25.22812	41.10	60.00	18.90	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.2789	24.61	50.85	26.24	L1	gnd
0.42343	31.55	47.38	15.83	L1	gnd
1.07187	28.62	46.00	17.38	L1	gnd
1.35312	27.97	46.00	18.03	L1	gnd
2.18906	26.19	46.00	19.81	L1	gnd
25.37265	32.77	50.00	17.23	L1	gnd

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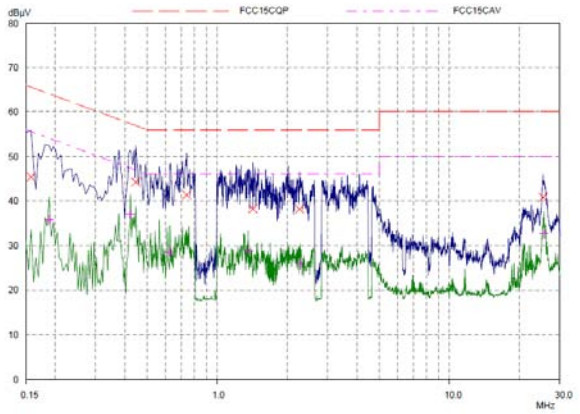
N Line



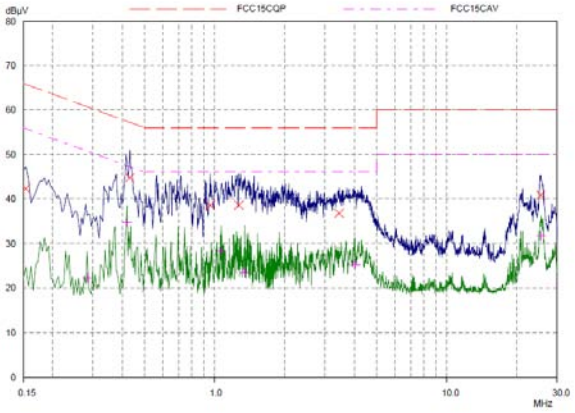
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.15781	45.40	65.58	20.18	N	gnd
0.44687	44.27	56.93	12.66	N	gnd
0.73984	41.37	56.00	14.63	N	gnd
1.42343	38.19	56.00	17.81	N	gnd
2.26328	38.16	56.00	17.84	N	gnd
25.3414	40.83	60.00	19.17	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.18906	35.80	54.08	18.28	N	gnd
0.42343	37.07	47.38	10.31	N	gnd
0.62656	28.48	46.00	17.52	N	gnd
1.36093	28.77	46.00	17.23	N	gnd
2.2789	25.93	46.00	20.07	N	gnd
25.61093	32.66	50.00	17.34	N	gnd

802.11n(HT20), Channel No.: 11

L Line

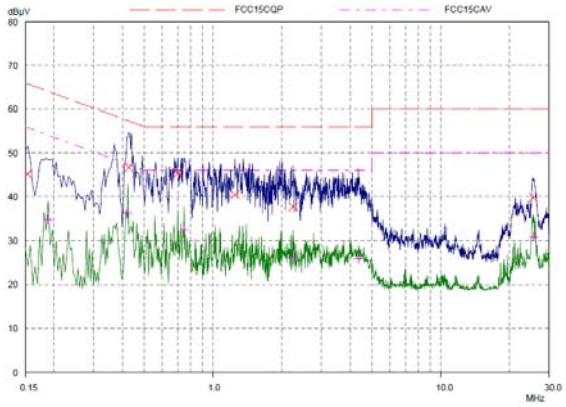


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.1539	42.28	65.79	23.51	L1	gnd
0.43125	44.73	57.23	12.50	L1	gnd
0.95859	38.54	56.00	17.46	L1	gnd
1.27109	38.58	56.00	17.42	L1	gnd
3.44296	36.79	56.00	19.21	L1	gnd
25.43125	40.88	60.00	19.12	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.28281	22.31	50.73	28.42	L1	gnd
0.41953	34.72	47.46	12.74	L1	gnd
1.06796	28.22	46.00	17.78	L1	gnd
1.34921	23.57	46.00	22.43	L1	gnd
4.025	25.28	46.00	20.72	L1	gnd
25.52109	31.68	50.00	18.32	L1	gnd

N Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.1539	45.20	65.79	20.59	N	gnd
0.42734	46.65	57.30	10.65	N	gnd
0.70078	45.35	56.00	10.65	N	gnd
1.24765	40.48	56.00	15.52	N	gnd
2.24765	37.72	56.00	18.28	N	gnd
25.43125	39.86	60.00	20.14	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.18906	34.75	54.08	19.33	N	gnd
0.42343	36.38	47.38	11.00	N	gnd
0.74765	32.51	46.00	13.49	N	gnd
2.24375	26.25	46.00	19.75	N	gnd
4.36484	25.91	46.00	20.09	N	gnd
25.48984	30.85	50.00	19.15	N	gnd

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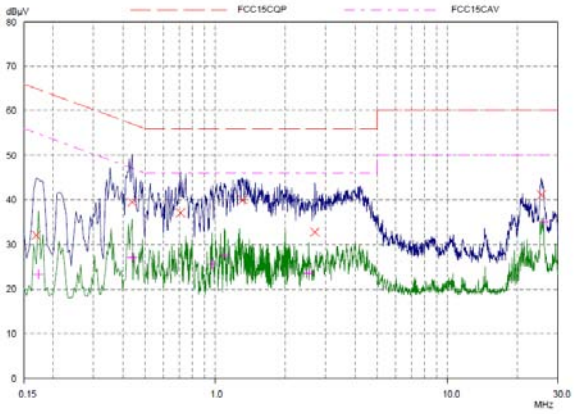
802.11n(HT40), Channel No.: 3

L Line

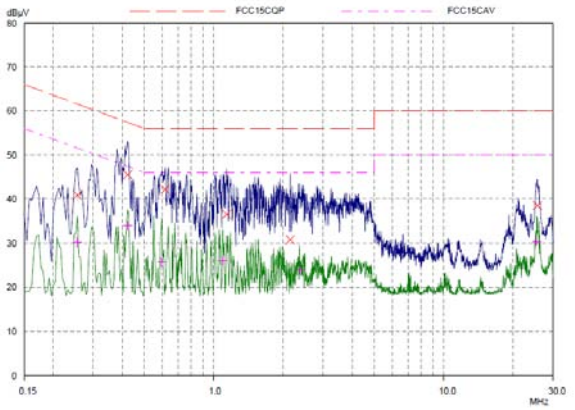


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.16953	32.04	64.98	32.94	L1	gnd
0.43906	39.49	57.08	17.59	L1	gnd
0.70859	37.07	56.00	18.93	L1	gnd
1.31406	39.98	56.00	16.02	L1	gnd
2.68515	32.77	56.00	23.23	L1	gnd
25.34531	41.13	60.00	18.87	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.17343	23.37	54.79	31.42	L1	gnd
0.43906	27.05	47.08	20.03	L1	gnd
0.97031	25.50	46.00	20.50	L1	gnd
1.09531	27.53	46.00	18.47	L1	gnd
2.53281	23.58	46.00	22.42	L1	gnd
26.00156	35.04	50.00	14.96	L1	gnd

N Line



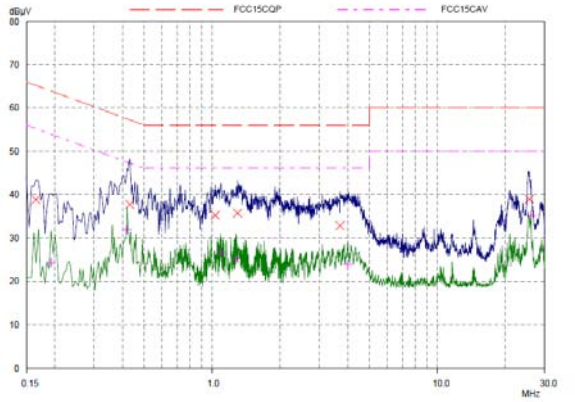
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.25546	40.85	61.58	20.73	N	gnd
0.42343	45.53	57.38	11.85	N	gnd
0.61484	42.15	56.00	13.85	N	gnd
1.13828	36.54	56.00	19.46	N	gnd
2.1539	30.76	56.00	25.24	N	gnd
25.48593	38.53	60.00	21.47	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.25546	30.16	51.58	21.42	N	gnd
0.42343	33.85	47.38	13.53	N	gnd
0.59531	25.72	46.00	20.28	N	gnd
1.09531	26.04	46.00	19.96	N	gnd
2.35703	24.00	46.00	22.00	N	gnd
25.4	30.40	50.00	19.60	N	gnd

802.11n(HT40), Channel No.: 6

L Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.16562	38.81	65.18	26.37	L1	gnd
0.43125	37.67	57.23	19.56	L1	gnd
1.03281	35.20	56.00	20.80	L1	gnd
1.29843	35.70	56.00	20.30	L1	gnd
3.69296	32.79	56.00	23.21	L1	gnd
25.57578	38.92	60.00	21.08	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.19296	24.26	53.91	29.65	L1	gnd
0.41953	31.82	47.46	15.64	L1	gnd
1.0914	26.54	46.00	19.46	L1	gnd
1.275	25.22	46.00	20.78	L1	gnd
4.00546	23.79	46.00	22.21	L1	gnd
26.00156	35.09	50.00	14.91	L1	gnd

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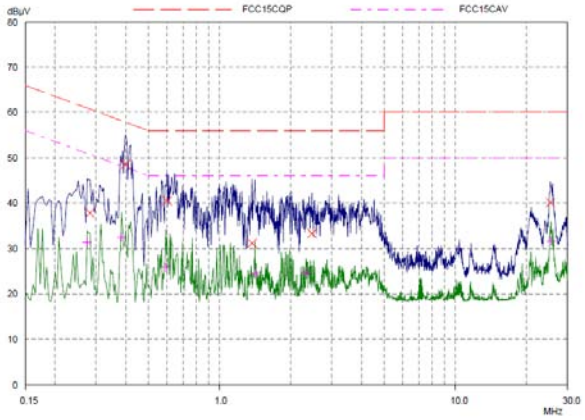
N Line



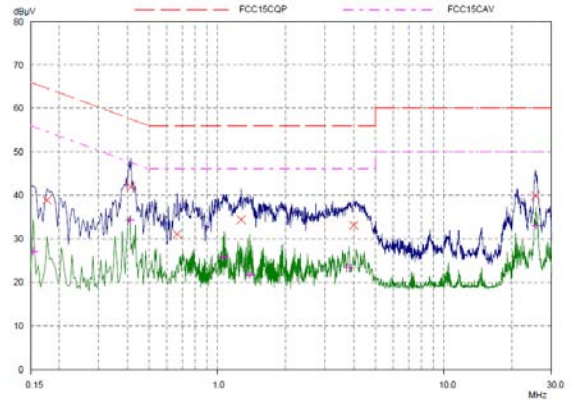
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.28281	37.84	60.73	22.89	N	gnd
0.4	48.56	57.85	9.29	N	gnd
0.59921	40.48	56.00	15.52	N	gnd
1.37656	31.11	56.00	24.89	N	gnd
2.47031	33.28	56.00	22.72	N	gnd
25.31406	40.09	60.00	19.91	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.275	31.38	50.97	19.59	N	gnd
0.38437	32.42	48.18	15.76	N	gnd
0.5914	25.79	46.00	20.21	N	gnd
1.41171	24.55	46.00	21.45	N	gnd
2.32968	24.79	46.00	21.21	N	gnd
25.48984	31.60	50.00	18.40	N	gnd

802.11n(HT40), Channel No.: 9

L Line

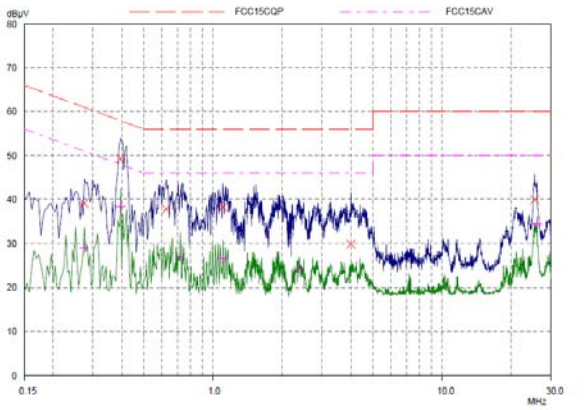


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.17734	38.88	64.61	25.73	L1	gnd
0.41562	41.91	57.54	15.63	L1	gnd
0.66562	31.05	56.00	24.95	L1	gnd
1.275	34.38	56.00	21.62	L1	gnd
4.00155	33.08	56.00	22.92	L1	gnd
25.42734	39.86	60.00	20.14	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.1539	27.16	55.79	28.63	L1	gnd
0.41171	34.22	47.61	13.39	L1	gnd
1.06796	25.84	46.00	20.16	L1	gnd
1.38828	21.69	46.00	24.31	L1	gnd
3.82187	23.26	46.00	22.74	L1	gnd
25.54843	33.13	50.00	16.87	L1	gnd

N Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.275	39.13	60.97	21.84	N	gnd
0.39609	49.26	57.93	8.67	N	gnd
0.62656	37.75	56.00	18.25	N	gnd
1.10312	38.20	56.00	17.80	N	gnd
4.00546	29.78	56.00	26.22	N	gnd
25.36875	39.91	60.00	20.09	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.275	29.02	50.97	21.95	N	gnd
0.39609	38.37	47.93	9.56	N	gnd
0.72031	26.98	46.00	19.02	N	gnd
1.10703	26.67	46.00	19.33	N	gnd
2.37656	24.17	46.00	21.83	N	gnd
25.99765	34.48	50.00	15.52	N	gnd

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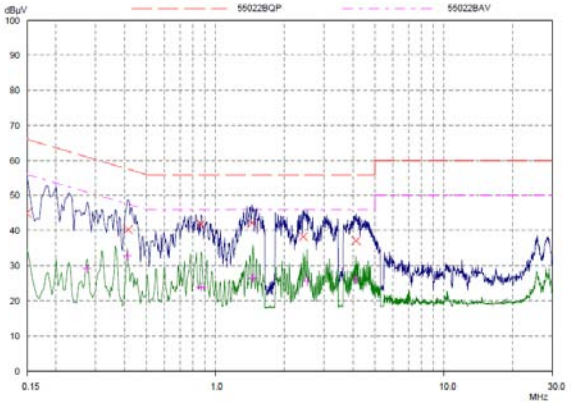
BLE, Channel No.: 0

L Line

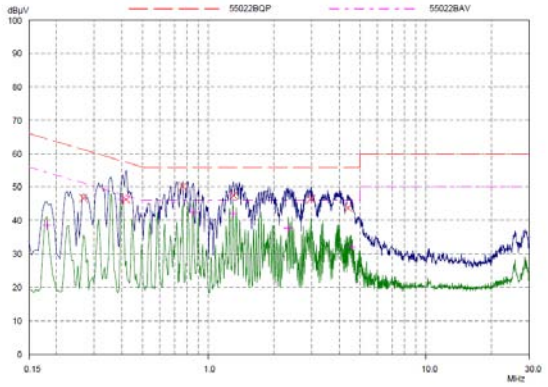


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.15	44.98	66.00	21.02	L1	gnd
0.41562	40.23	57.54	17.31	L1	gnd
0.86484	41.83	56.00	14.17	L1	gnd
1.44687	42.09	56.00	13.91	L1	gnd
2.42734	38.26	56.00	17.74	L1	gnd
4.12655	37.08	56.00	18.92	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.275	29.11	50.97	21.86	L1	gnd
0.41171	32.78	47.61	14.83	L1	gnd
0.86484	23.91	46.00	22.09	L1	gnd
1.4625	26.43	46.00	19.57	L1	gnd
2.52109	25.45	46.00	20.55	L1	gnd
4.12265	26.16	46.00	19.84	L1	gnd

N Line



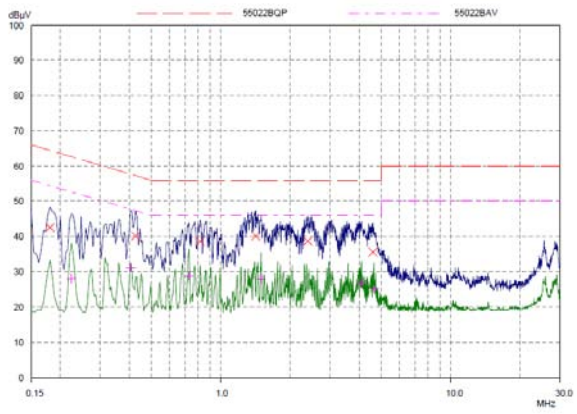
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.26718	46.69	61.21	14.52	N	gnd
0.41953	46.29	57.46	11.17	N	gnd
0.76328	50.17	56.00	5.83	N	gnd
1.30625	47.48	56.00	8.52	N	gnd
2.95859	46.37	56.00	9.63	N	gnd
4.39609	43.77	56.00	12.23	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.18125	38.64	54.43	15.79	N	gnd
0.4039	46.22	47.77	1.55	N	gnd
0.85312	42.38	46.00	3.62	N	gnd
1.29843	42.04	46.00	3.96	N	gnd
2.33359	37.76	46.00	8.24	N	gnd
4.51718	32.06	46.00	13.94	N	gnd

BLE, Channel No.: 19

L Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.18125	42.50	64.43	21.93	L1	gnd
0.42734	40.09	57.30	17.21	L1	gnd
0.81406	38.55	56.00	17.45	L1	gnd
1.41953	40.09	56.00	15.91	L1	gnd
2.39609	38.64	56.00	17.36	L1	gnd
4.58359	35.55	56.00	20.45	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.22421	28.10	52.66	24.56	L1	gnd
0.40781	31.13	47.69	16.56	L1	gnd
0.72812	28.82	46.00	17.18	L1	gnd
1.49765	27.81	46.00	18.19	L1	gnd
4.0914	26.79	46.00	19.21	L1	gnd
4.63437	25.22	46.00	20.78	L1	gnd

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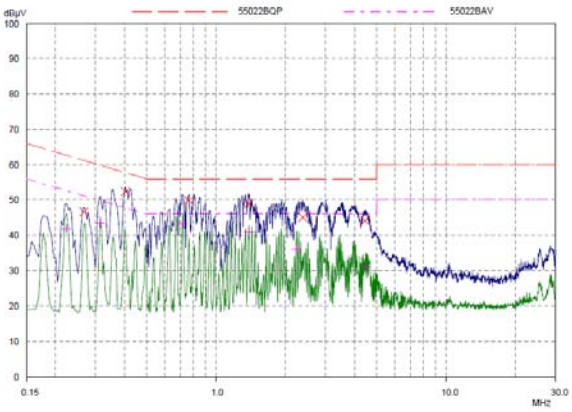
N Line



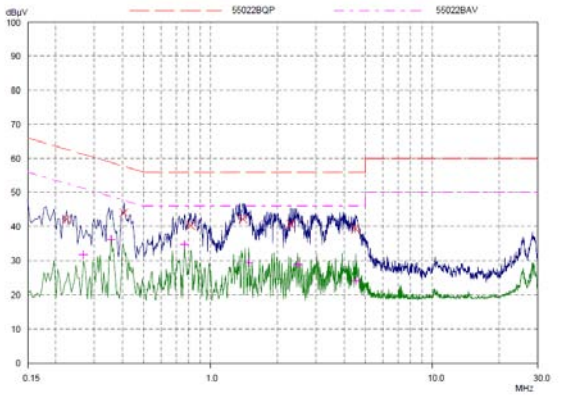
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.26718	46.63	61.21	14.58	N	gnd
0.4039	52.42	57.77	5.35	N	gnd
0.76328	49.83	56.00	6.17	N	gnd
1.38437	48.97	56.00	7.03	N	gnd
2.38437	45.00	56.00	11.00	N	gnd
4.43906	44.07	56.00	11.93	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.22421	41.88	52.66	10.78	N	gnd
0.31406	43.47	49.86	6.39	N	gnd
0.7164	43.29	46.00	2.71	N	gnd
1.38828	40.86	46.00	5.14	N	gnd
2.23984	36.04	46.00	9.96	N	gnd
4.4625	30.79	46.00	15.21	N	gnd

BLE, Channel No.: 39

L Line

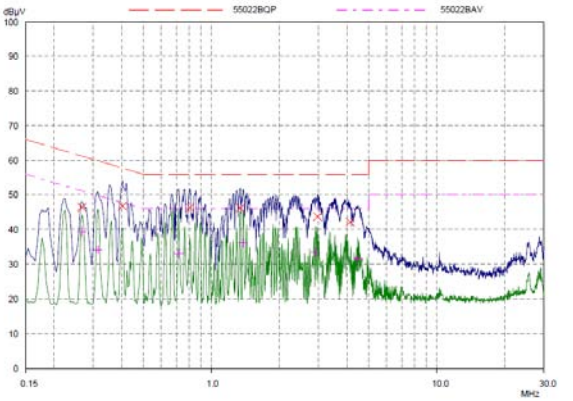


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.22421	42.13	62.66	20.53	L1	gnd
0.40781	44.02	57.69	13.67	L1	gnd
0.81406	40.27	56.00	15.73	L1	gnd
1.4	42.15	56.00	13.85	L1	gnd
2.29843	40.68	56.00	15.32	L1	gnd
4.50156	39.33	56.00	16.67	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.26718	31.66	51.21	19.55	L1	gnd
0.35703	36.31	48.80	12.49	L1	gnd
0.76328	34.60	46.00	11.40	L1	gnd
1.48593	29.42	46.00	16.58	L1	gnd
2.47031	29.02	46.00	16.98	L1	gnd
4.51328	24.14	46.00	21.86	L1	gnd

N Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.26718	46.41	61.21	14.80	N	gnd
0.4039	46.78	57.77	10.99	N	gnd
0.80625	46.33	56.00	9.67	N	gnd
1.34531	46.23	56.00	9.77	N	gnd
2.95859	43.71	56.00	12.29	N	gnd
4.12655	42.10	56.00	13.90	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.26718	39.36	51.21	11.85	N	gnd
0.31406	34.14	49.86	15.72	N	gnd
0.7164	33.00	46.00	13.00	N	gnd
1.38437	36.12	46.00	9.88	N	gnd
2.9039	33.42	46.00	12.58	N	gnd
4.47031	31.45	46.00	14.55	N	gnd

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6. Main Test Instruments

Name	Type/ Model	Manufacturer	Serial Number	Calibration Date	Expiration Time
Spectrum Analyzer	FSV30	R&S	100815	2015-12-17	2016-12-16
EMI Test Receiver	ESCI	R&S	100948	2016-06-01	2017-05-31
TRILOG Broadband Antenna	VULB 9163	Schwarzbeck	9163-201	2014-12-06	2017-12-05
Double Ridged Waveguide Horn Antenna	HF907	R&S	100126	2014-12-06	2017-12-05
Loop Antenna	FMZB1519	SCHWARZBECK	1519-047	2014-02-19	2017-02-18
Standard Gain Horn	3160-09	ETS-Lindgren	00102644	2015-01-30	2018-01-29
EMI Test Receiver	ESCS30	R&S	100138	2015-12-17	2016-12-16
LISN	ENV216	R&S	101171	2013-12-18	2016-12-17
Spectrum Analyzer	N9010A	Agilent	MY47191109	2016-05-21	2017-05-20
MOB COMMS DC SUPPLY	66319D	Agilent	MY43004105	2016-05-21	2017-05-20
Peak Power Meter	U2021XA	Keysight	MY55240003	2016-06-26	2017-06-25
RF Cable	SMA 15cm	Agilent	0001	2016-06-05	2017-06-04

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

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ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance

Front Side

Back Side

Picture 1-1: EUT

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Picture 1-2: Battery

Picture 1 EUT

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