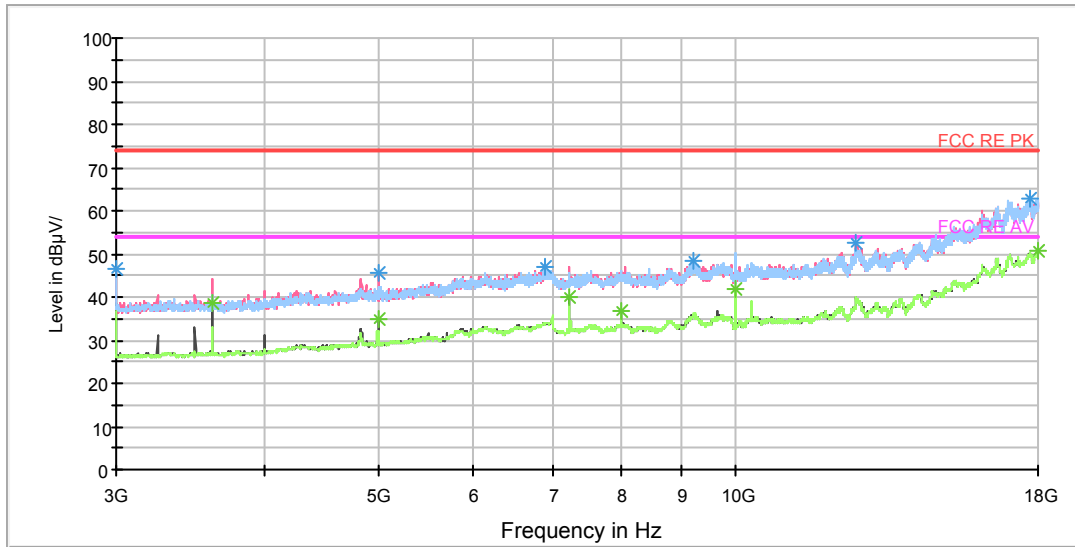




RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

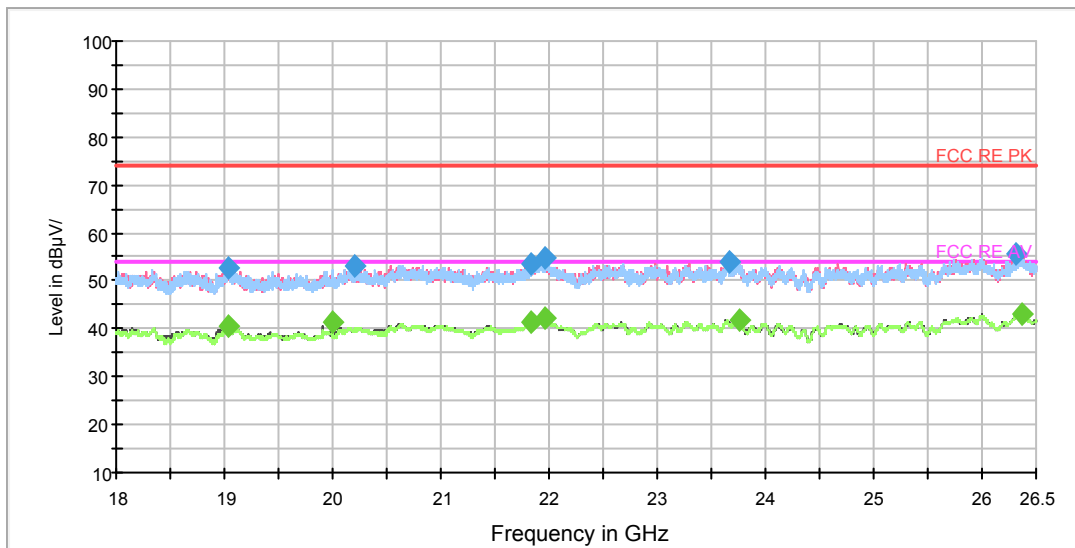
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3000.000000	46.6	202.0	V	19.0	49.8	-3.2	27.4	74
4998.750000	45.5	202.0	V	341.0	47.1	-1.6	28.5	74
6903.750000	47.0	202.0	H	0.0	53.3	-6.3	27.0	74
9221.250000	48.2	102.0	V	185.0	58.1	-9.9	25.8	74
12645.000000	52.4	202.0	V	64.0	66.8	-14.4	21.6	74
17709.375000	63.0	102.0	H	63.0	87.7	-24.7	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)
3616.875000	38.7	202.0	V	316.0	40.7	-2.0	15.3	54
4998.750000	34.7	202.0	V	341.0	36.3	-1.6	19.3	54
7235.625000	40.2	102.0	V	342.0	47.0	-6.8	13.8	54
8000.625000	36.9	102.0	H	40.0	44.2	-7.3	17.1	54
10001.250000	42.0	102.0	H	291.0	51.7	-9.7	12.0	54
17998.125000	50.6	102.0	V	274.0	76.0	-25.4	3.4	54

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

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)
19030.625000	52.5	H	140.0	57.6	-5.1	21.5	74
20208.937500	52.9	V	356.0	58.8	-5.9	21.1	74
21832.437500	53.7	V	0.0	61.7	-8.0	20.3	74
21970.562500	54.7	V	220.0	62.7	-8.0	19.3	74
23665.250000	54.2	V	111.0	60.1	-5.9	19.8	74
26306.625000	55.4	V	0.0	60.8	-5.4	18.6	74

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

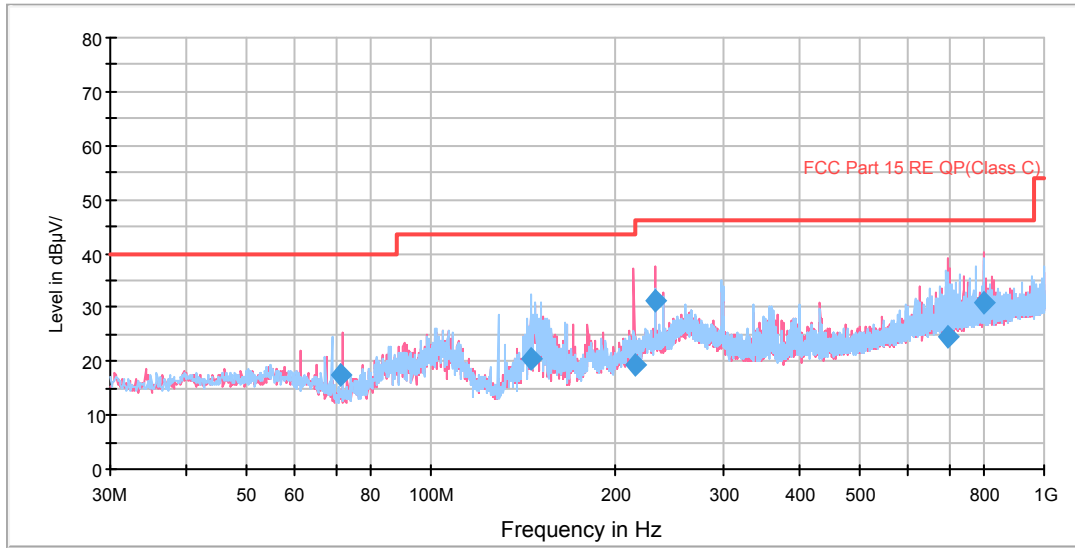
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19037.000000	40.5	V	0.0	45.6	-5.1	13.5	54
20000.687500	41.2	V	83.0	46.9	-5.7	12.8	54
21838.812500	41.3	V	274.0	49.3	-8.0	12.7	54
21967.375000	42.2	V	0.0	50.2	-8.0	11.8	54
23753.437500	41.9	H	126.0	47.8	-5.9	12.1	54
26376.750000	43.2	H	277.0	48.6	-5.4	10.8	54

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



802.11n (HT40) CH3

FCC RE 0.03-1GHz QP Class C

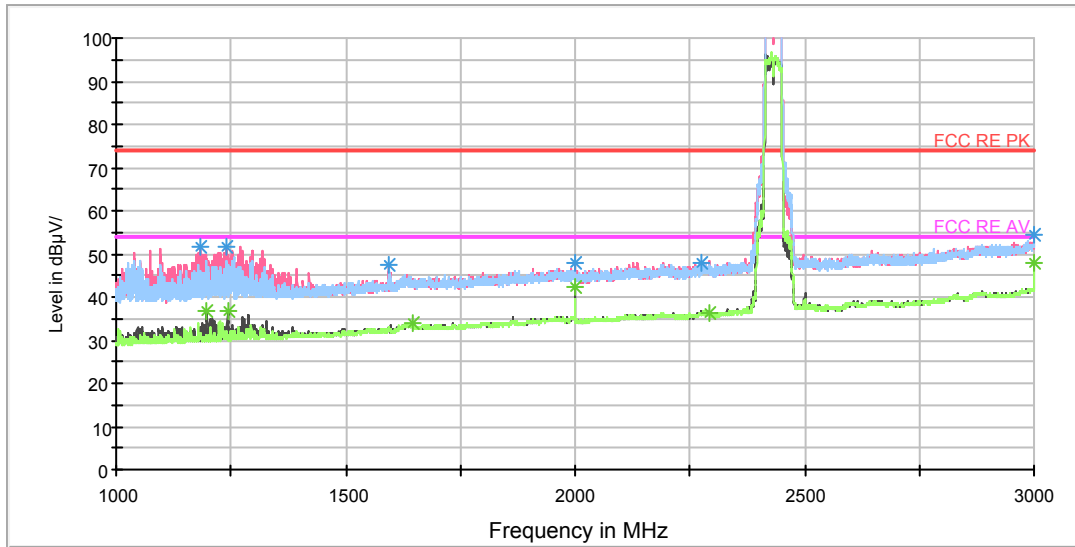


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
71.432500	17.5	100.0	V	101.0	26.1	-8.6	22.5	40.0
145.315000	20.4	125.0	H	330.0	29.4	-9.0	23.1	43.5
214.782500	19.3	100.0	V	26.0	31.9	-12.6	24.2	43.5
232.366250	31.3	100.0	V	87.0	44.7	-13.4	14.7	46.0
697.037500	24.6	100.0	V	240.0	47.5	-22.9	21.4	46.0
798.200000	30.9	100.0	V	210.0	55.2	-24.3	15.1	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

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)
1182.750000	51.6	101.0	V	84.0	59.6	-8.0	22.4	74
1240.500000	51.8	101.0	V	95.0	59.8	-8.0	22.2	74
1593.250000	47.7	101.0	V	48.0	54.1	-6.4	26.3	74
2000.250000	47.9	202.0	V	141.0	51.3	-3.4	26.1	74
3000.000000	54.6	202.0	V	39.0	56.9	-2.3	19.4	74
2276.000000	48.1	202.0	V	19.0	49.6	-1.5	25.9	74

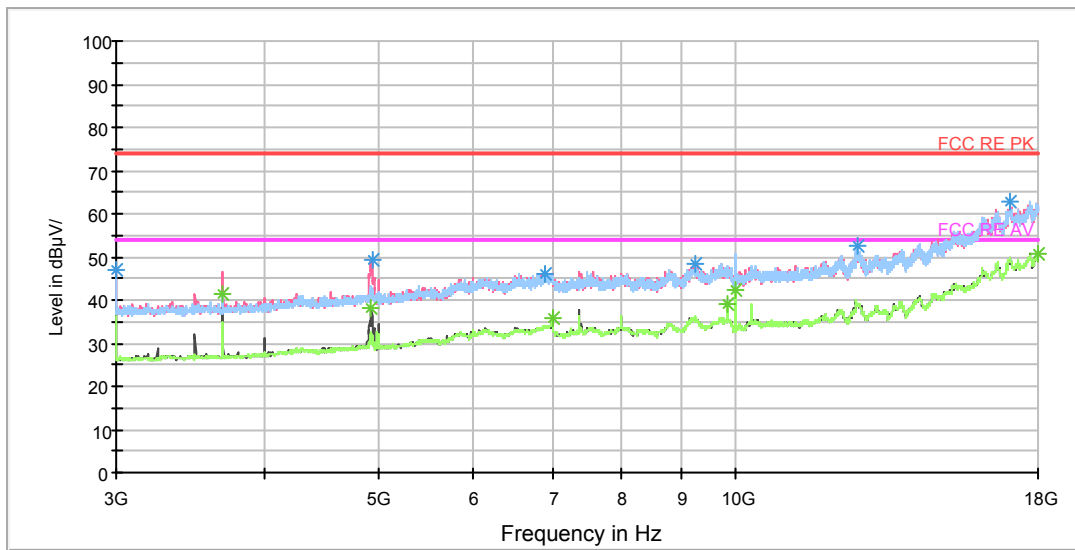
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.750000	36.7	101.0	V	35.0	44.9	-8.2	17.3	54
1242.500000	36.8	101.0	V	84.0	44.8	-8.0	17.2	54
1644.750000	33.8	101.0	V	128.0	38.7	-4.9	20.2	54
2000.000000	42.2	101.0	V	73.0	45.6	-3.4	11.8	54
3000.000000	48.1	202.0	V	39.0	50.4	-2.3	5.9	54
2294.000000	36.4	101.0	V	170.0	38.3	-1.9	17.6	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

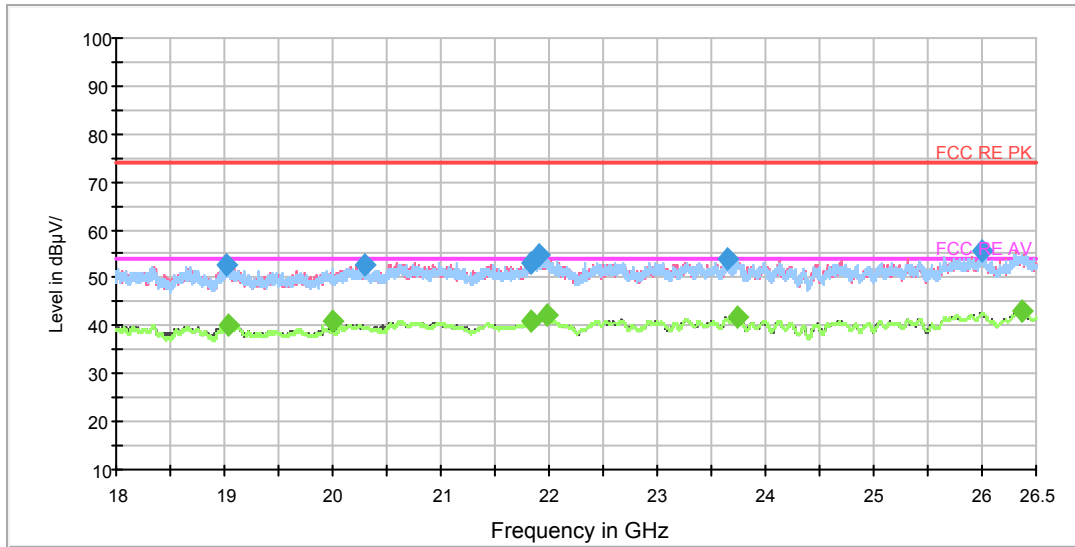
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3000.000000	47.0	202.0	V	20.0	50.2	-3.2	27.0	74
4931.250000	49.3	102.0	V	343.0	51.2	-1.9	24.7	74
6911.250000	46.2	102.0	H	0.0	52.4	-6.2	27.8	74
9240.000000	48.6	102.0	H	39.0	58.5	-9.9	25.4	74
12693.750000	52.5	102.0	H	83.0	66.7	-14.2	21.5	74
17043.750000	62.8	102.0	V	254.0	87.4	-24.6	11.2	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)
3691.875000	41.2	202.0	V	0.0	42.9	-1.7	12.8	54
4929.375000	38.3	202.0	V	317.0	40.2	-1.9	15.7	54
6999.375000	35.6	102.0	H	0.0	42.1	-6.5	18.4	54
9847.500000	39.2	102.0	H	292.0	49.5	-10.3	14.8	54
10001.250000	42.1	102.0	H	292.0	51.8	-9.7	11.9	54
18000.000000	50.8	102.0	H	0.0	76.3	-25.5	3.2	54

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

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)
19024.250000	52.6	V	179.0	57.7	-5.1	21.4	74
20298.187500	52.9	H	165.0	58.9	-6.0	21.1	74
21826.062500	53.3	V	138.0	61.3	-8.0	20.7	74
21916.375000	54.8	H	151.0	62.8	-8.0	19.2	74
23648.250000	53.8	V	193.0	59.7	-5.9	20.2	74
26001.687500	55.6	H	247.0	61.0	-5.4	18.4	74

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

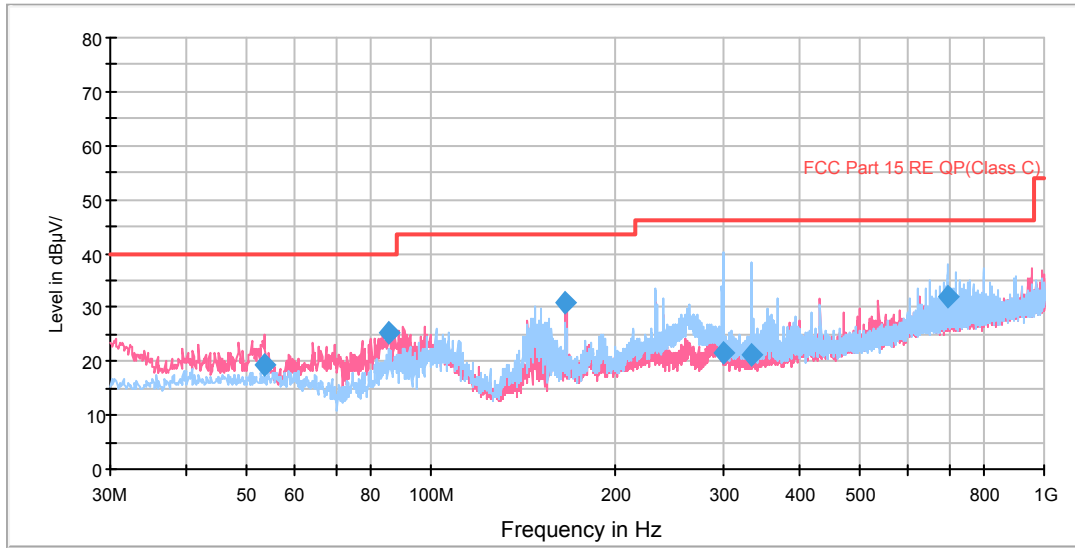
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19033.812500	40.3	V	0.0	45.4	-5.1	13.7	54
20000.687500	41.0	H	3.0	46.7	-5.7	13.0	54
21836.687500	41.1	V	0.0	49.1	-8.0	12.9	54
21984.375000	42.3	V	125.0	50.3	-8.0	11.7	54
23737.500000	41.8	V	341.0	47.7	-5.9	12.2	54
26364.000000	43.0	H	30.0	48.4	-5.4	11.0	54

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



802.11n (HT40) CH6

FCC RE 0.03-1GHz QP Class C

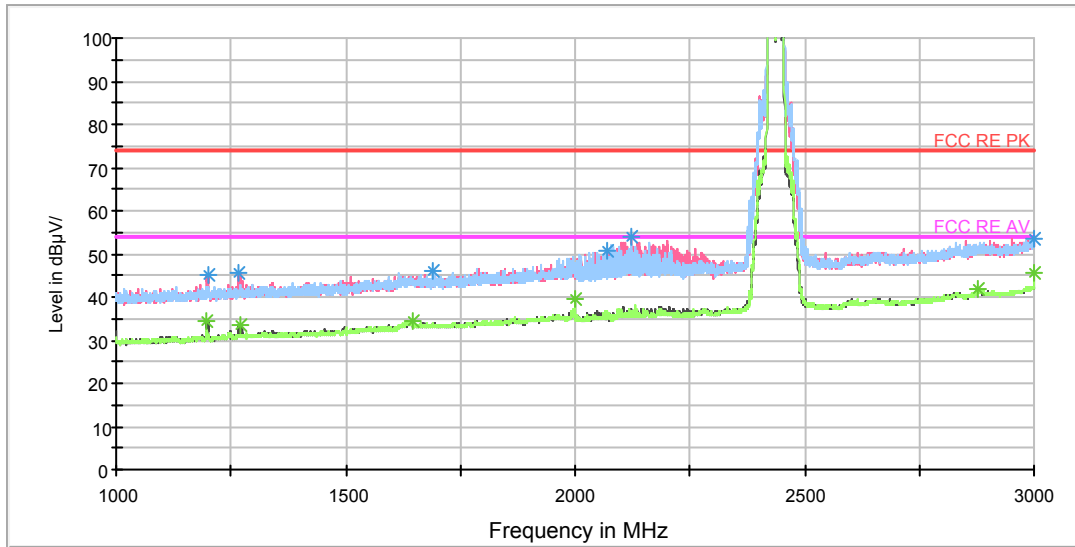


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
53.402500	19.2	100.0	V	283.0	32.0	-12.8	20.8	40.0
85.532500	25.2	114.0	V	353.0	35.6	-10.4	14.8	40.0
166.001250	30.9	100.0	V	261.0	40.9	-10.0	12.6	43.5
299.858750	21.7	100.0	H	318.0	37.2	-15.5	24.3	46.0
333.411250	21.1	100.0	H	343.0	37.4	-16.3	24.9	46.0
697.483750	32.2	114.0	H	237.0	55.1	-22.9	13.8	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

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

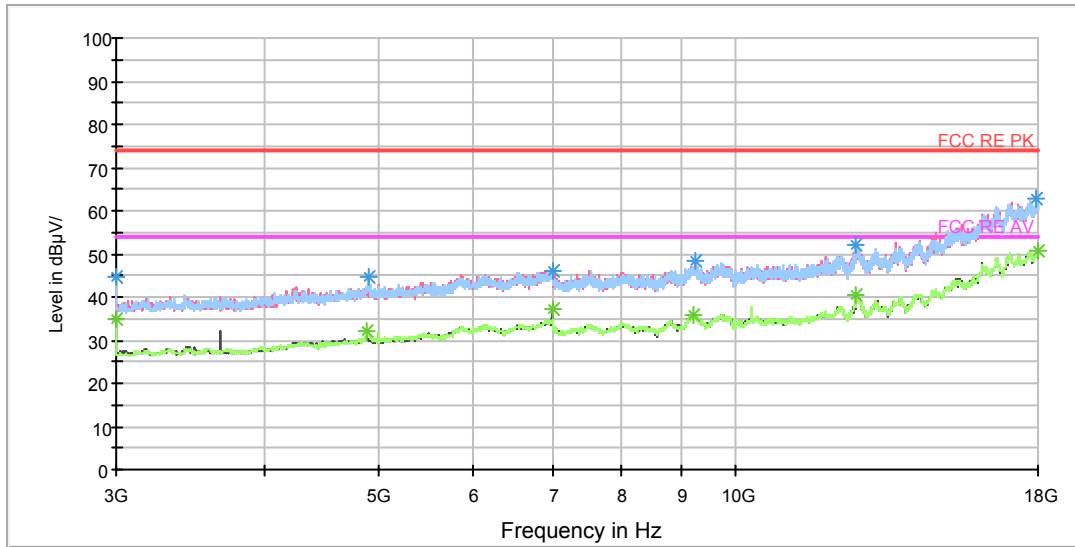
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1200.250000	45.3	101.0	V	269.0	53.5	-8.2	28.7	74
1267.250000	45.7	101.0	V	263.0	53.4	-7.7	28.3	74
1690.000000	46.0	101.0	H	247.0	51.0	-5.0	28.0	74
2069.000000	50.8	101.0	H	19.0	53.9	-3.1	23.2	74
2120.750000	54.0	101.0	V	355.0	56.2	-2.2	20.0	74
2999.750000	53.7	101.0	V	65.0	56.0	-2.3	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)
1198.500000	34.4	101.0	V	269.0	42.6	-8.2	19.6	54
1269.750000	33.7	101.0	V	355.0	41.4	-7.7	20.3	54
1646.000000	34.5	101.0	H	1.0	39.4	-4.9	19.5	54
2000.000000	39.6	101.0	V	52.0	43.0	-3.4	14.4	54
2878.750000	41.7	101.0	V	341.0	44.0	-2.3	12.3	54
3000.000000	45.7	101.0	H	0.0	48.0	-2.3	8.3	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

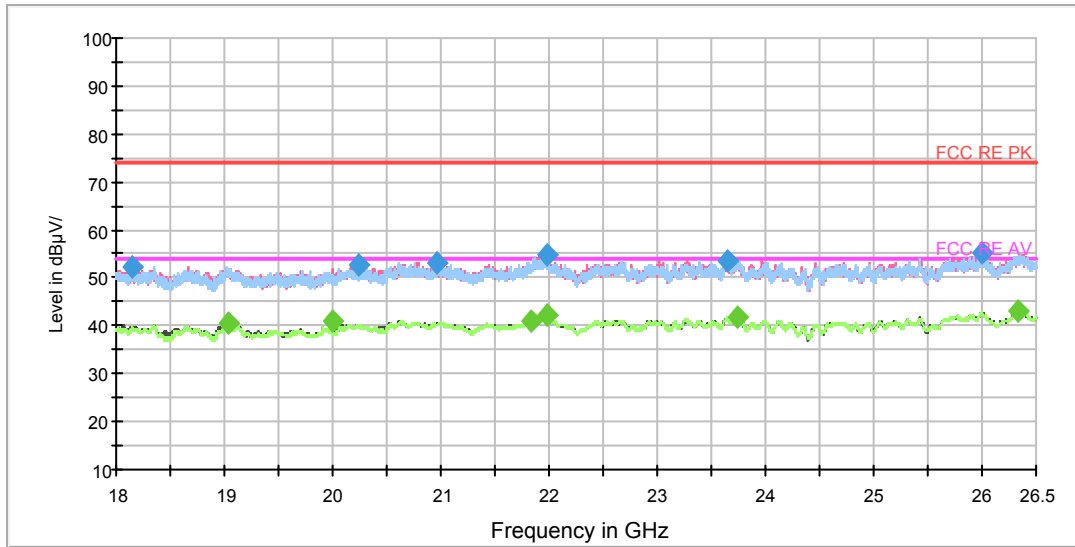
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3000.000000	44.5	101.0	H	0.0	47.7	-3.2	29.5	74
4891.875000	44.7	101.0	H	0.0	46.6	-1.9	29.3	74
6999.375000	46.0	101.0	V	165.0	52.5	-6.5	28.0	74
9240.000000	48.2	101.0	V	327.0	58.1	-9.9	25.8	74
12635.625000	52.3	101.0	H	0.0	66.4	-14.1	21.7	74
17960.625000	62.9	101.0	H	108.0	87.7	-24.8	11.1	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3000.000000	34.7	101.0	H	0.0	37.9	-3.2	19.3	54
4890.000000	32.0	101.0	H	0.0	33.9	-1.9	22.0	54
6999.375000	37.1	101.0	V	165.0	43.6	-6.5	16.9	54
9228.750000	36.0	101.0	H	0.0	45.9	-9.9	18.0	54
12639.375000	40.4	101.0	V	137.0	54.9	-14.5	13.6	54
18000.000000	50.8	101.0	H	279.0	76.3	-25.5	3.2	54

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

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)
18148.750000	52.5	H	0.0	54.9	-2.4	21.5	74
20245.062500	52.6	H	3.0	58.5	-5.9	21.4	74
20959.062500	53.3	H	0.0	60.6	-7.3	20.7	74
21988.625000	54.7	H	152.0	62.7	-8.0	19.3	74
23642.937500	53.6	H	0.0	59.5	-5.9	20.4	74
26000.625000	55.3	V	246.0	60.7	-5.4	18.7	74

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

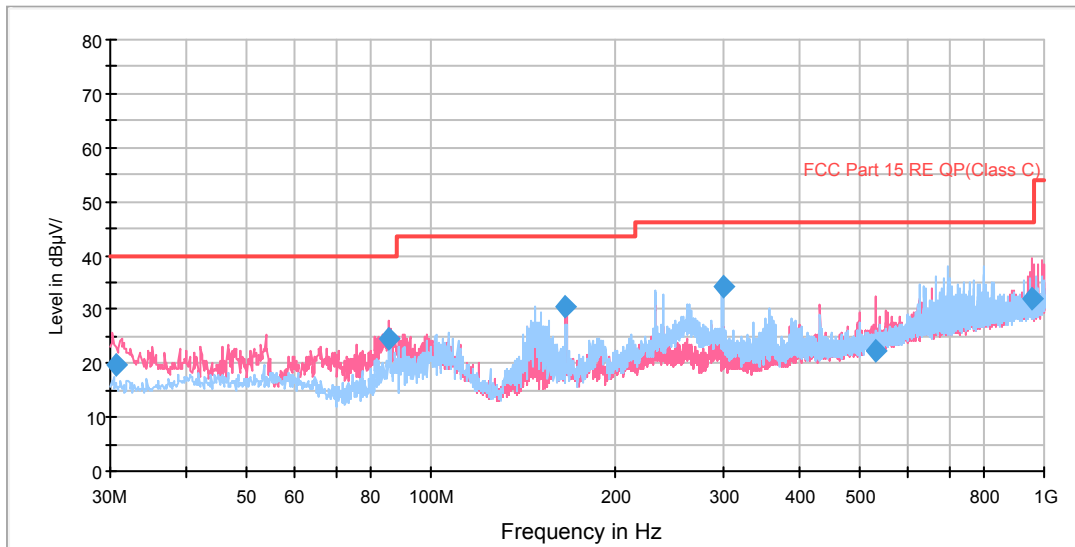
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
19033.812500	40.4	H	193.0	45.5	-5.1	13.6	54
20000.687500	41.1	V	0.0	46.8	-5.7	12.9	54
21839.875000	41.1	V	205.0	49.1	-8.0	12.9	54
21981.187500	42.4	H	85.0	50.4	-8.0	11.6	54
23748.125000	41.8	V	205.0	47.7	-5.9	12.2	54
26336.375000	43.0	H	98.0	48.4	-5.4	11.0	54

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



802.11n (HT40) CH9

FCC RE 0.03-1GHz QP Class C

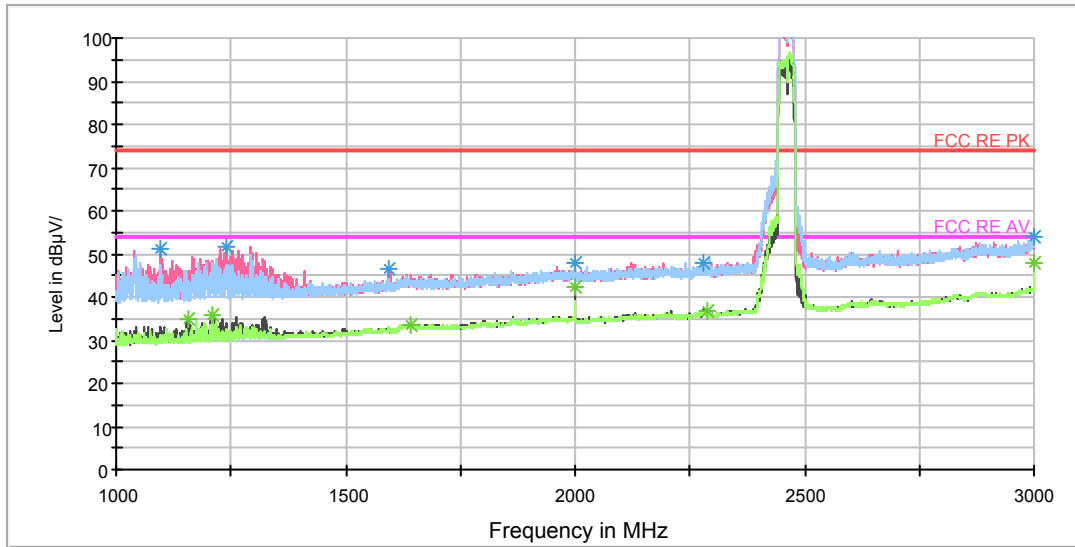


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.640000	19.9	100.0	V	96.0	31.8	-11.9	20.1	40.0
85.532500	24.7	114.0	V	0.0	35.1	-10.4	15.3	40.0
166.005000	30.6	100.0	V	261.0	40.6	-10.0	12.9	43.5
299.293750	34.1	100.0	H	255.0	49.5	-15.4	11.9	46.0
529.552500	22.2	100.0	V	168.0	42.8	-20.6	23.8	46.0
952.915000	32.1	100.0	V	178.0	58.1	-26.0	13.9	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

RE 1G-3GHz PK+AV



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

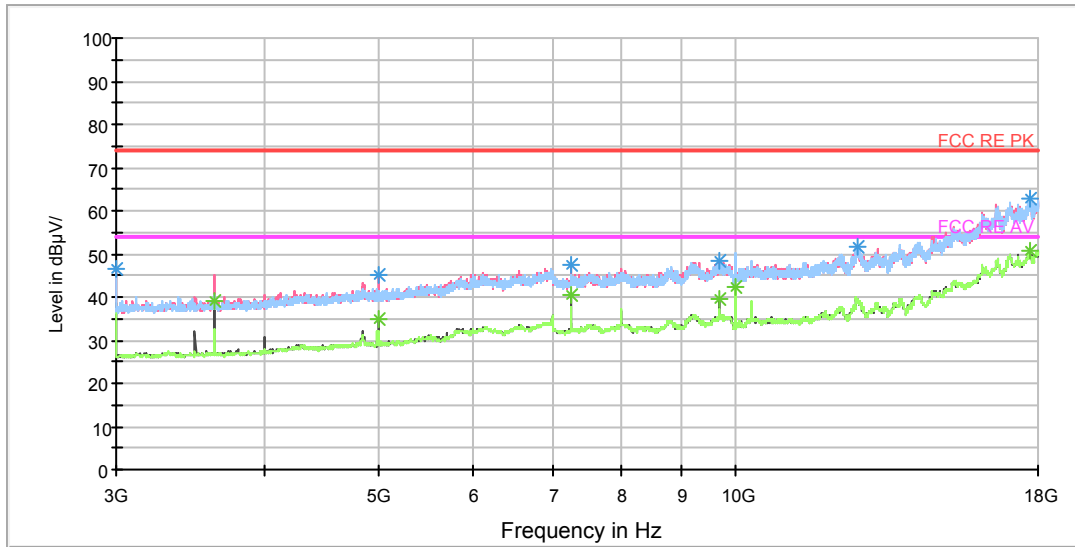
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1095.500000	51.3	102.0	V	73.0	60.2	-8.9	22.7	74
1239.750000	51.7	102.0	V	36.0	59.7	-8.0	22.3	74
1595.000000	46.3	102.0	V	233.0	52.7	-6.4	27.7	74
2000.250000	47.8	102.0	V	60.0	51.2	-3.4	26.2	74
3000.000000	54.2	102.0	V	0.0	56.5	-2.3	19.8	74
2280.250000	48.0	202.0	V	58.0	49.3	-1.3	26.0	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)
1158.500000	34.7	102.0	V	36.0	43.1	-8.4	19.3	54
1207.500000	35.8	102.0	V	84.0	43.9	-8.1	18.2	54
1640.000000	33.7	202.0	V	28.0	38.4	-4.7	20.3	54
2000.000000	42.2	202.0	V	162.0	45.6	-3.4	11.8	54
3000.000000	48.1	202.0	V	203.0	50.4	-2.3	5.9	54
2286.500000	36.6	202.0	V	257.0	38.2	-1.6	17.4	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

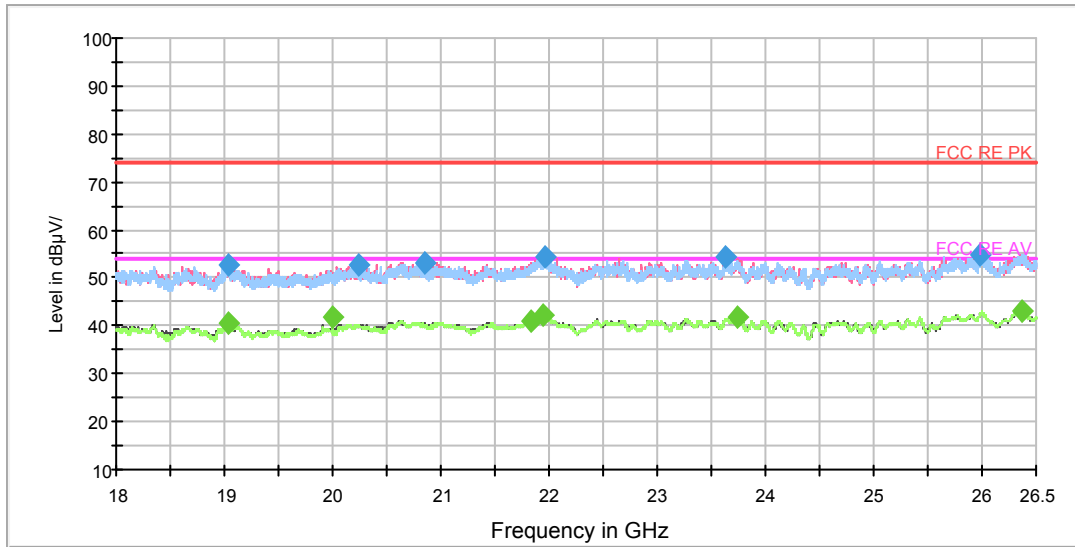
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3000.000000	46.6	202.0	V	18.0	49.8	-3.2	27.4	74
4998.750000	44.9	202.0	V	341.0	46.5	-1.6	29.1	74
7265.625000	47.2	102.0	V	44.0	54.2	-7.0	26.8	74
9688.125000	48.5	102.0	V	342.0	58.0	-9.5	25.5	74
12690.000000	51.4	102.0	H	0.0	65.6	-14.2	22.6	74
17713.125000	62.7	202.0	H	342.0	87.3	-24.6	11.3	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)
3631.875000	39.0	202.0	V	316.0	40.9	-1.9	15.0	54
4998.750000	34.9	202.0	V	341.0	36.5	-1.6	19.1	54
7265.625000	40.2	102.0	V	44.0	47.2	-7.0	13.8	54
9688.125000	39.7	102.0	V	342.0	49.2	-9.5	14.3	54
10001.250000	42.1	102.0	H	293.0	51.8	-9.7	11.9	54
17715.000000	50.6	202.0	V	0.0	75.2	-24.6	3.4	54

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

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)
19045.500000	52.5	H	59.0	57.7	-5.2	21.5	74
20245.062500	52.8	V	0.0	58.7	-5.9	21.2	74
20852.812500	53.2	V	83.0	60.3	-7.1	20.8	74
21966.312500	54.4	H	4.0	62.4	-8.0	19.6	74
23628.062500	54.4	V	327.0	60.3	-5.9	19.6	74
25980.437500	54.9	V	0.0	60.3	-5.4	19.1	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)
19031.687500	40.4	V	151.0	45.5	-5.1	13.6	54
20000.687500	41.7	H	33.0	47.4	-5.7	12.3	54
21836.687500	41.2	H	0.0	49.2	-8.0	12.8	54
21942.937500	42.2	V	0.0	50.2	-8.0	11.8	54
23746.000000	41.9	H	46.0	47.8	-5.9	12.1	54
26362.937500	42.9	H	100.0	48.3	-5.4	11.1	54

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

5.8. Conducted Emission

Ambient condition

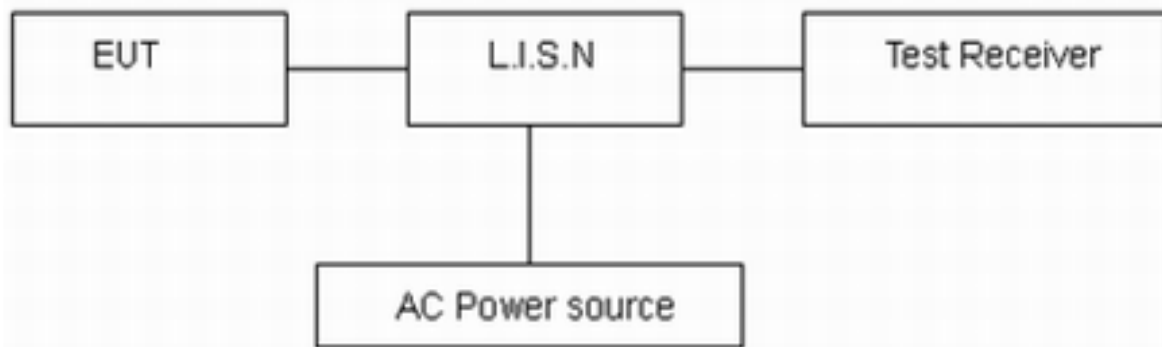
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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.

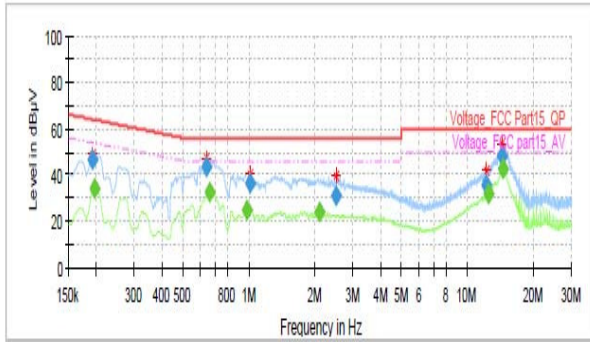


Test Results:

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

SISO Antenna 1 802.11b, Channel No.: 1

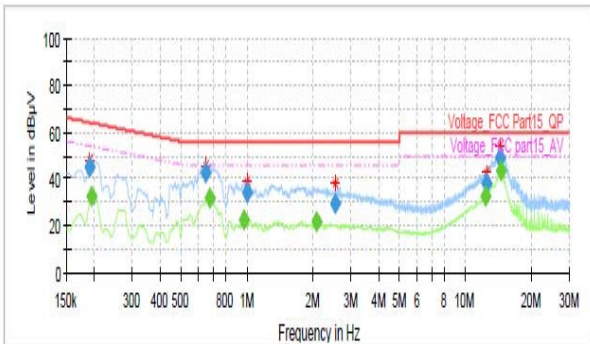
L Line



Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data for Channel No. 1.

N Line

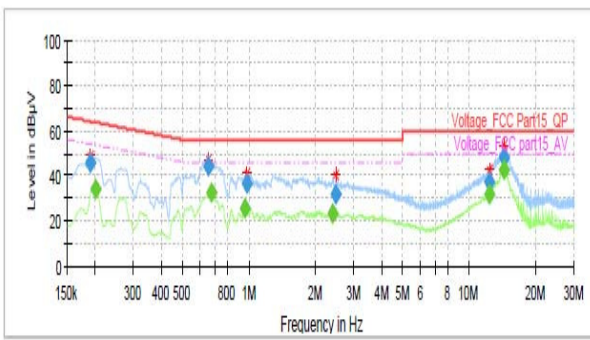


Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data for Channel No. 1.

SISO Antenna 1 802.11b, Channel No.: 6

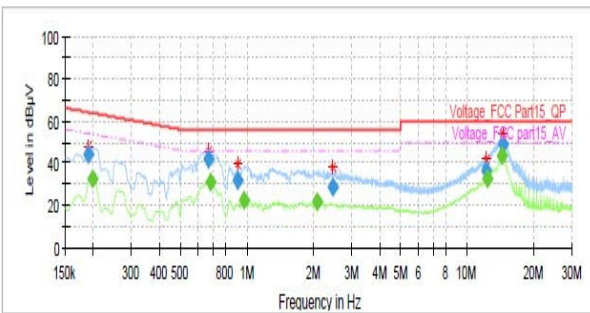
L Line



Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data for Channel No. 6.

N Line



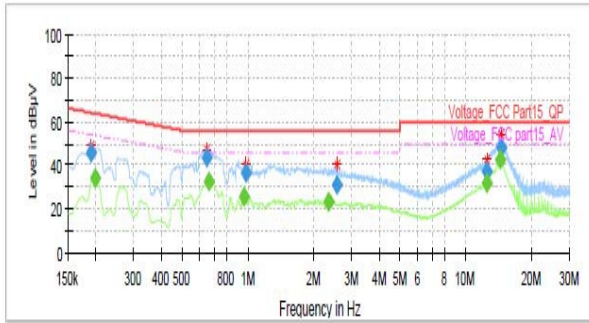
Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data for Channel No. 6.



SISO Antenna 1 802.11b, Channel No.: 11

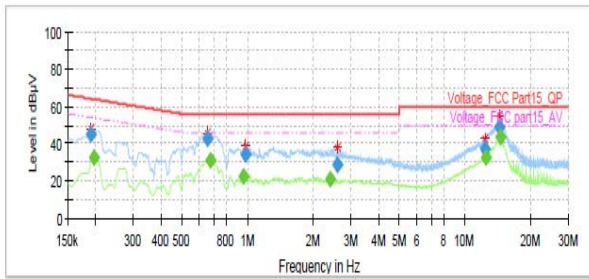
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190500	45.50	---	64.02	18.51	1000.0	9.000	L1	ON	19.2
0.199500	---	34.11	53.63	19.52	1000.0	9.000	L1	ON	19.2
0.647250	43.16	---	56.00	12.84	1000.0	9.000	L1	ON	19.3
0.660750	---	32.23	46.00	13.77	1000.0	9.000	L1	ON	19.3
0.964500	---	25.29	46.00	20.71	1000.0	9.000	L1	ON	19.2
0.984750	36.61	---	56.00	19.39	1000.0	9.000	L1	ON	19.2
2.348250	---	23.11	46.00	22.89	1000.0	9.000	L1	ON	19.0
2.564250	30.96	---	56.00	25.04	1000.0	9.000	L1	ON	19.0
12.459750	---	32.14	50.00	17.86	1000.0	9.000	L1	ON	19.4
12.489000	37.26	---	60.00	22.74	1000.0	9.000	L1	ON	19.4
14.464500	---	42.71	50.00	7.29	1000.0	9.000	L1	ON	19.5
14.527500	48.26	---	60.00	11.74	1000.0	9.000	L1	ON	19.5

N Line

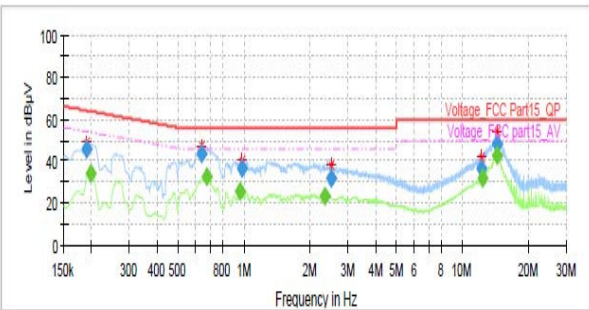


Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190500	44.60	---	64.02	19.42	1000.0	9.000	N	ON	19.2
0.197250	---	32.29	53.73	21.44	1000.0	9.000	N	ON	19.2
0.656250	42.57	---	56.00	13.43	1000.0	9.000	N	ON	19.3
0.678750	---	31.33	46.00	14.67	1000.0	9.000	N	ON	19.3
0.962250	---	22.58	46.00	23.42	1000.0	9.000	N	ON	19.2
0.982500	34.46	---	56.00	21.54	1000.0	9.000	N	ON	19.2
2.413500	---	20.89	46.00	25.11	1000.0	9.000	N	ON	19.0
2.584500	28.42	---	56.00	27.58	1000.0	9.000	N	ON	19.0
12.345000	36.95	---	60.00	23.05	1000.0	9.000	N	ON	19.4
12.466500	---	32.52	50.00	17.48	1000.0	9.000	N	ON	19.4
14.435250	48.74	---	60.00	11.26	1000.0	9.000	N	ON	19.5
14.529750	---	43.27	50.00	6.73	1000.0	9.000	N	ON	19.5

SISO Antenna 3 802.11g, Channel No.: 1

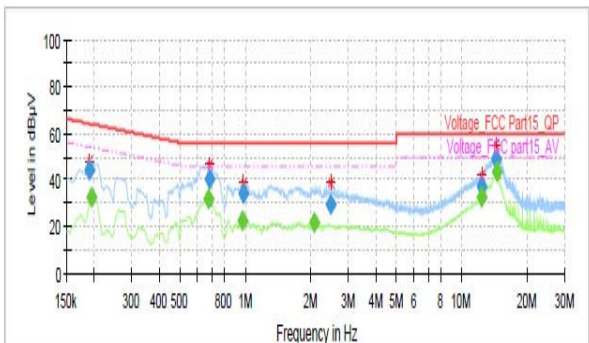
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190500	45.50	---	64.02	18.52	1000.0	9.000	L1	ON	19.2
0.199500	---	34.08	53.63	19.55	1000.0	9.000	L1	ON	19.2
0.640500	43.60	---	56.00	12.40	1000.0	9.000	L1	ON	19.3
0.678750	---	32.49	46.00	13.51	1000.0	9.000	L1	ON	19.3
0.964500	---	25.29	46.00	20.71	1000.0	9.000	L1	ON	19.2
0.980250	36.80	---	56.00	19.20	1000.0	9.000	L1	ON	19.2
2.352750	---	23.14	46.00	22.86	1000.0	9.000	L1	ON	19.0
2.512500	31.70	---	56.00	24.30	1000.0	9.000	L1	ON	19.0
12.264000	36.20	---	60.00	23.80	1000.0	9.000	L1	ON	19.4
12.426000	---	31.86	50.00	18.14	1000.0	9.000	L1	ON	19.4
14.460000	48.28	---	60.00	11.72	1000.0	9.000	L1	ON	19.5
14.480250	---	42.62	50.00	7.38	1000.0	9.000	L1	ON	19.5

N Line



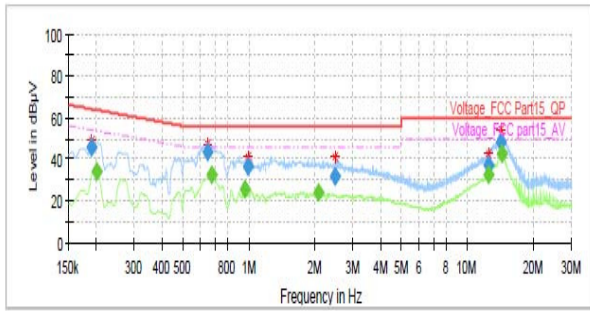
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190500	44.34	---	64.02	19.68	1000.0	9.000	N	ON	19.2
0.195000	---	32.44	53.82	21.38	1000.0	9.000	N	ON	19.2
0.678750	---	31.46	46.00	14.54	1000.0	9.000	N	ON	19.3
0.687750	40.52	---	56.00	15.48	1000.0	9.000	N	ON	19.3
0.966750	---	22.85	46.00	23.15	1000.0	9.000	N	ON	19.2
0.982500	34.44	---	56.00	21.56	1000.0	9.000	N	ON	19.2
2.089500	---	21.58	46.00	24.42	1000.0	9.000	N	ON	19.1
2.481000	29.21	---	56.00	26.79	1000.0	9.000	N	ON	19.0
12.345000	37.11	---	60.00	22.89	1000.0	9.000	N	ON	19.4
12.439500	---	32.35	50.00	17.65	1000.0	9.000	N	ON	19.4
14.505000	48.91	---	60.00	11.09	1000.0	9.000	N	ON	19.5
14.545500	---	43.16	50.00	6.84	1000.0	9.000	N	ON	19.5



SISO Antenna 3 802.11g, Channel No.: 6

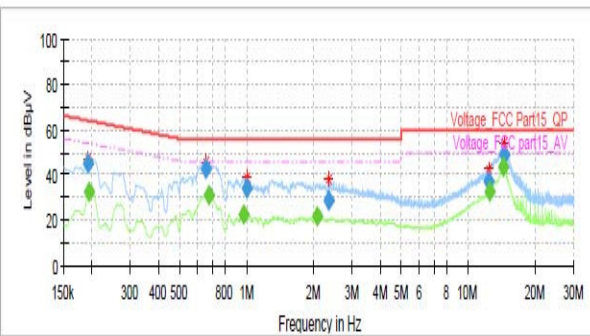
L Line



Final Result

Table with 11 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data for L Line.

N Line

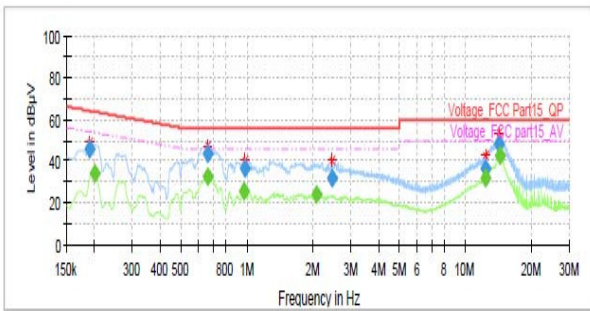


Final Result

Table with 11 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data for N Line.

SISO Antenna 3 802.11g, Channel No.: 11

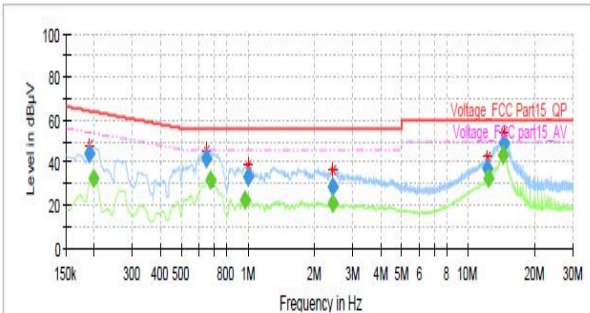
L Line



Final Result

Table with 11 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data for L Line.

N Line



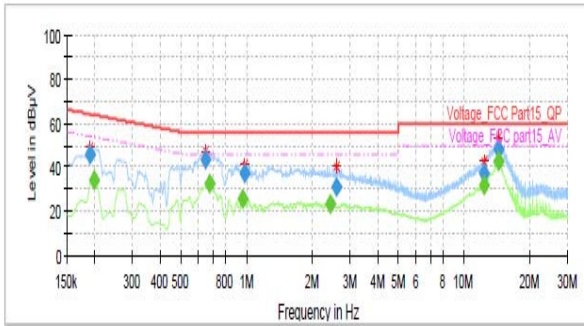
Final Result

Table with 11 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data for N Line.



MIMO 802.11n(HT20), Channel No.: 1

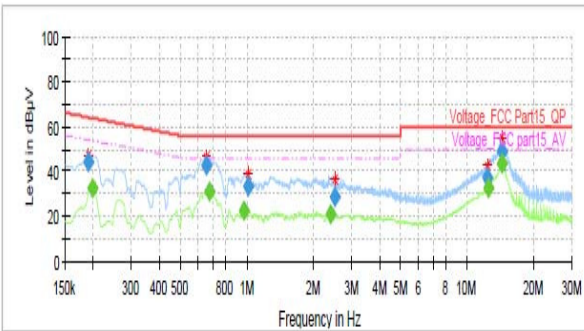
L Line



Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 14 rows of test data for L Line.

N Line

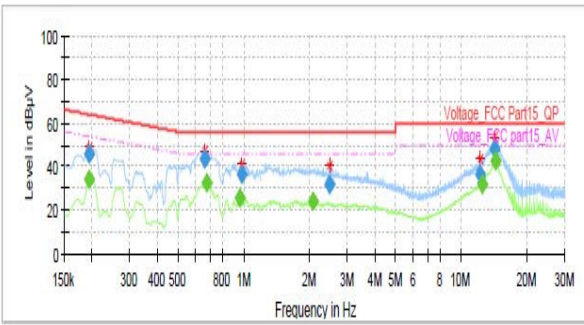


Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 14 rows of test data for N Line.

MIMO 802.11n(HT20), Channel No.: 6

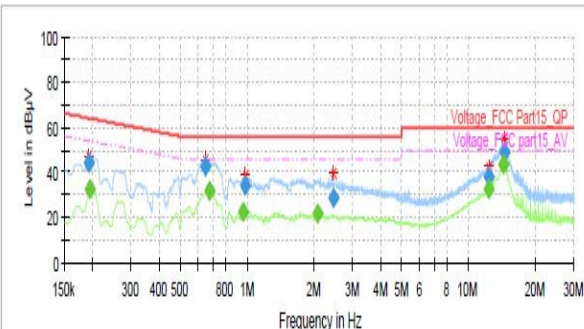
L Line



Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 14 rows of test data for L Line.

N Line

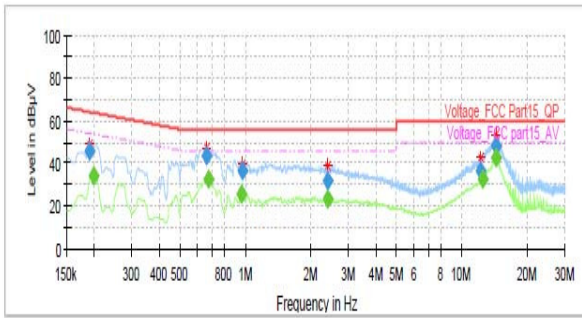


Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 14 rows of test data for N Line.

MIMO 802.11n(HT20), Channel No.: 11

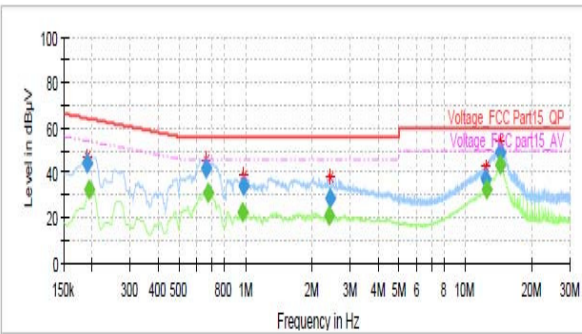
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190500	45.39	---	64.02	18.62	1000.0	9.000	L1	ON	19.2
0.195000	---	34.11	53.63	19.52	1000.0	9.000	L1	ON	19.2
0.665250	43.66	---	56.00	12.34	1000.0	9.000	L1	ON	19.3
0.681000	---	32.26	46.00	13.74	1000.0	9.000	L1	ON	19.3
0.964500	---	25.34	46.00	20.66	1000.0	9.000	L1	ON	19.2
0.975750	36.44	---	56.00	19.56	1000.0	9.000	L1	ON	19.2
2.400000	31.52	---	56.00	24.48	1000.0	9.000	L1	ON	19.0
2.411250	---	23.31	46.00	22.69	1000.0	9.000	L1	ON	19.0
12.273000	36.40	---	60.00	23.60	1000.0	9.000	L1	ON	19.4
12.482250	---	32.22	50.00	17.78	1000.0	9.000	L1	ON	19.4
14.426250	---	42.51	50.00	7.49	1000.0	9.000	L1	ON	19.5
14.448750	48.24	---	60.00	11.76	1000.0	9.000	L1	ON	19.5

N Line

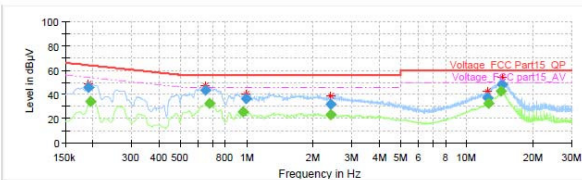


Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190500	44.28	---	64.02	19.73	1000.0	9.000	N	ON	19.2
0.195000	---	32.40	53.82	21.42	1000.0	9.000	N	ON	19.2
0.663000	42.24	---	56.00	13.76	1000.0	9.000	N	ON	19.3
0.681000	---	31.33	46.00	14.67	1000.0	9.000	N	ON	19.3
0.966750	---	22.83	46.00	23.17	1000.0	9.000	N	ON	19.2
0.984750	34.29	---	56.00	21.71	1000.0	9.000	N	ON	19.2
2.413500	---	20.96	46.00	25.04	1000.0	9.000	N	ON	19.0
2.442750	28.91	---	56.00	27.09	1000.0	9.000	N	ON	19.0
12.322500	37.11	---	60.00	22.89	1000.0	9.000	N	ON	19.4
12.491250	---	32.74	50.00	17.26	1000.0	9.000	N	ON	19.4
14.500500	48.69	---	60.00	11.31	1000.0	9.000	N	ON	19.5
14.507250	---	43.06	50.00	6.94	1000.0	9.000	N	ON	19.5

MIMO 802.11n(HT40), Channel No.: 3

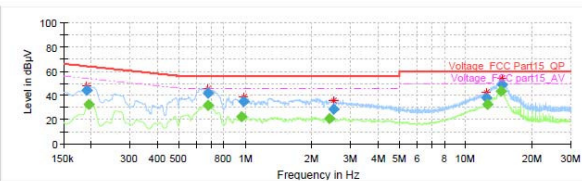
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190500	45.39	---	64.02	18.63	1000.0	9.000	L1	ON	19.2
0.195000	---	34.23	53.82	19.59	1000.0	9.000	L1	ON	19.2
0.651750	43.79	---	56.00	12.21	1000.0	9.000	L1	ON	19.3
0.678750	---	32.57	46.00	13.43	1000.0	9.000	L1	ON	19.3
0.957750	---	25.20	46.00	20.80	1000.0	9.000	L1	ON	19.2
0.996000	36.46	---	56.00	19.54	1000.0	9.000	L1	ON	19.2
2.413500	31.92	---	56.00	24.08	1000.0	9.000	L1	ON	19.0
2.413500	---	23.48	46.00	22.52	1000.0	9.000	L1	ON	19.0
12.365250	36.91	---	60.00	23.09	1000.0	9.000	L1	ON	19.4
12.493500	---	32.40	50.00	17.60	1000.0	9.000	L1	ON	19.4
14.327250	---	42.41	50.00	7.59	1000.0	9.000	L1	ON	19.5
14.385750	48.25	---	60.00	11.75	1000.0	9.000	L1	ON	19.5

N Line



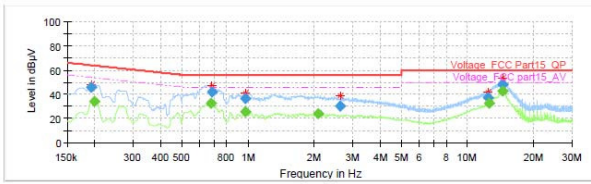
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190500	44.49	---	64.02	19.53	1000.0	9.000	N	ON	19.2
0.195000	---	32.37	53.82	21.45	1000.0	9.000	N	ON	19.2
0.676250	41.75	---	56.00	14.25	1000.0	9.000	N	ON	19.3
0.678750	---	31.48	46.00	14.52	1000.0	9.000	N	ON	19.3
0.964500	---	22.87	46.00	23.13	1000.0	9.000	N	ON	19.2
0.982500	34.52	---	56.00	21.48	1000.0	9.000	N	ON	19.2
2.415750	---	21.04	46.00	24.96	1000.0	9.000	N	ON	19.0
2.510250	28.87	---	56.00	27.13	1000.0	9.000	N	ON	19.0
12.441750	37.76	---	60.00	22.24	1000.0	9.000	N	ON	19.4
12.471000	---	32.64	50.00	17.36	1000.0	9.000	N	ON	19.4
14.403750	---	43.14	50.00	6.86	1000.0	9.000	N	ON	19.5
14.538750	48.73	---	60.00	11.27	1000.0	9.000	N	ON	19.5



MIMO 802.11n(HT40), Channel No.: 6

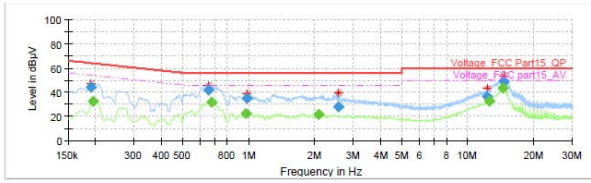
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.192750	45.69	---	63.92	18.22	1000.0	9.000	L1	ON	19.2
0.195900	---	34.11	53.63	19.53	1000.0	9.000	L1	ON	19.2
0.678750	---	32.28	46.00	13.72	1000.0	9.000	L1	ON	19.3
0.683250	42.18	---	56.00	13.82	1000.0	9.000	L1	ON	19.3
0.966750	---	25.31	46.00	20.69	1000.0	9.000	L1	ON	19.2
0.973500	36.10	---	56.00	19.90	1000.0	9.000	L1	ON	19.2
2.091750	---	24.26	46.00	21.74	1000.0	9.000	L1	ON	19.1
2.613750	30.33	---	56.00	25.67	1000.0	9.000	L1	ON	19.0
12.435000	37.28	---	60.00	22.72	1000.0	9.000	L1	ON	19.4
12.468750	---	32.25	50.00	17.75	1000.0	9.000	L1	ON	19.4
14.397000	---	42.55	50.00	7.45	1000.0	9.000	L1	ON	19.5
14.505000	48.12	---	60.00	11.88	1000.0	9.000	L1	ON	19.5

N Line

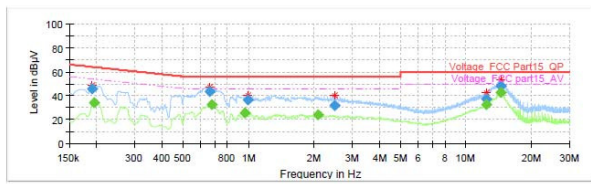


Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190500	44.23	---	64.02	19.79	1000.0	9.000	N	ON	19.2
0.195000	---	32.52	53.82	21.30	1000.0	9.000	N	ON	19.2
0.658500	42.19	---	56.00	13.81	1000.0	9.000	N	ON	19.3
0.678750	---	31.52	46.00	14.48	1000.0	9.000	N	ON	19.3
0.975750	---	22.57	46.00	23.43	1000.0	9.000	N	ON	19.2
0.982500	34.54	---	56.00	21.46	1000.0	9.000	N	ON	19.2
2.091750	---	21.80	46.00	24.20	1000.0	9.000	N	ON	19.1
2.562000	28.19	---	56.00	27.81	1000.0	9.000	N	ON	19.0
12.228000	36.57	---	60.00	23.43	1000.0	9.000	N	ON	19.4
12.486750	---	32.71	50.00	17.29	1000.0	9.000	N	ON	19.4
14.406000	---	43.06	50.00	6.94	1000.0	9.000	N	ON	19.5
14.568000	48.61	---	60.00	11.39	1000.0	9.000	N	ON	19.5

MIMO 802.11n(HT40), Channel No.: 9

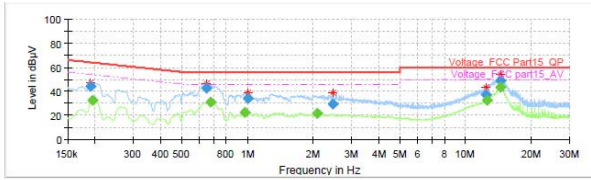
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190500	45.50	---	64.02	18.51	1000.0	9.000	L1	ON	19.2
0.195000	---	34.21	53.82	19.61	1000.0	9.000	L1	ON	19.2
0.665250	43.61	---	56.00	12.39	1000.0	9.000	L1	ON	19.3
0.676500	---	32.39	46.00	13.61	1000.0	9.000	L1	ON	19.3
0.960000	---	25.33	46.00	20.67	1000.0	9.000	L1	ON	19.2
0.960000	36.56	---	56.00	19.44	1000.0	9.000	L1	ON	19.2
2.094000	---	24.20	46.00	21.80	1000.0	9.000	L1	ON	19.1
2.485500	31.84	---	56.00	24.16	1000.0	9.000	L1	ON	19.0
12.378750	36.98	---	60.00	23.02	1000.0	9.000	L1	ON	19.4
12.441750	---	32.20	50.00	17.80	1000.0	9.000	L1	ON	19.4
14.439750	48.14	---	60.00	11.86	1000.0	9.000	L1	ON	19.5
14.466750	---	42.57	50.00	7.43	1000.0	9.000	L1	ON	19.5

N Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190500	44.06	---	64.02	19.95	1000.0	9.000	N	ON	19.2
0.195000	---	32.48	53.82	21.34	1000.0	9.000	N	ON	19.2
0.645000	42.53	---	56.00	13.47	1000.0	9.000	N	ON	19.3
0.678750	---	31.25	46.00	14.75	1000.0	9.000	N	ON	19.3
0.965750	---	22.85	46.00	23.15	1000.0	9.000	N	ON	19.2
1.000500	33.86	---	56.00	22.14	1000.0	9.000	N	ON	19.2
2.091750	---	21.86	46.00	24.14	1000.0	9.000	N	ON	19.1
2.469750	29.16	---	56.00	26.84	1000.0	9.000	N	ON	19.0
12.351750	37.20	---	60.00	22.80	1000.0	9.000	N	ON	19.4
12.468750	---	32.58	50.00	17.42	1000.0	9.000	N	ON	19.4
14.401500	48.78	---	60.00	11.22	1000.0	9.000	N	ON	19.5
14.419500	---	43.03	50.00	6.97	1000.0	9.000	N	ON	19.5



6. Main Test Instruments

Name	Type	Manufacturer	Serial Number	Calibration Date	Expiration Time
Spectrum Analyzer	FSV30	R&S	100815	2016-12-16	2017-12-15
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	2016-12-16	2017-12-15
LISN	ENV216	R&S	101171	2016-12-17	2019-12-16
Spectrum Analyzer	N9010A	Agilent	MY47191109	2016-05-21	2017-05-20
MOB COMMS DC SUPPLY	66319D	Agilent	MY43004105	2016-05-21	2017-05-20
AV power meter	U2021XA	Keysight	MY55240003	2016-06-26	2017-06-25
RF Cable	SMA 15cm	Agilent	0001	2016-12-06	2017-03-05

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

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance





a: EUT



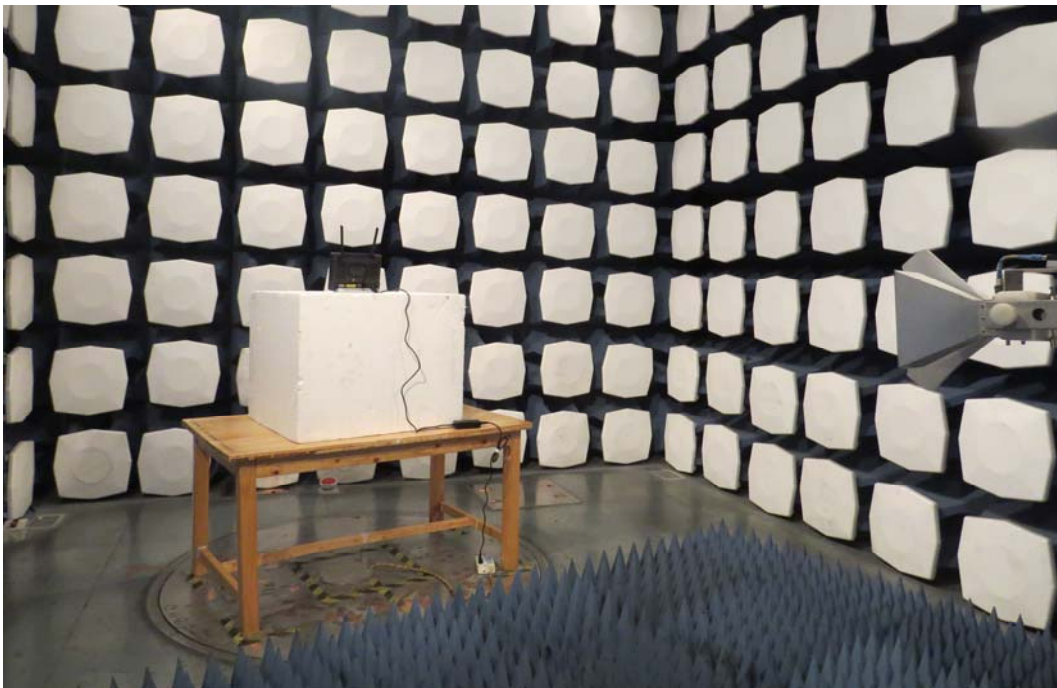
b: Adapter

Picture 1 EUT and Accessory

A.2 Test Setup



30M Hz-1GHz



Above 1GHz

Picture 2 Radiated Emission Test Setup



Picture 3 Conducted Emission Test Setup