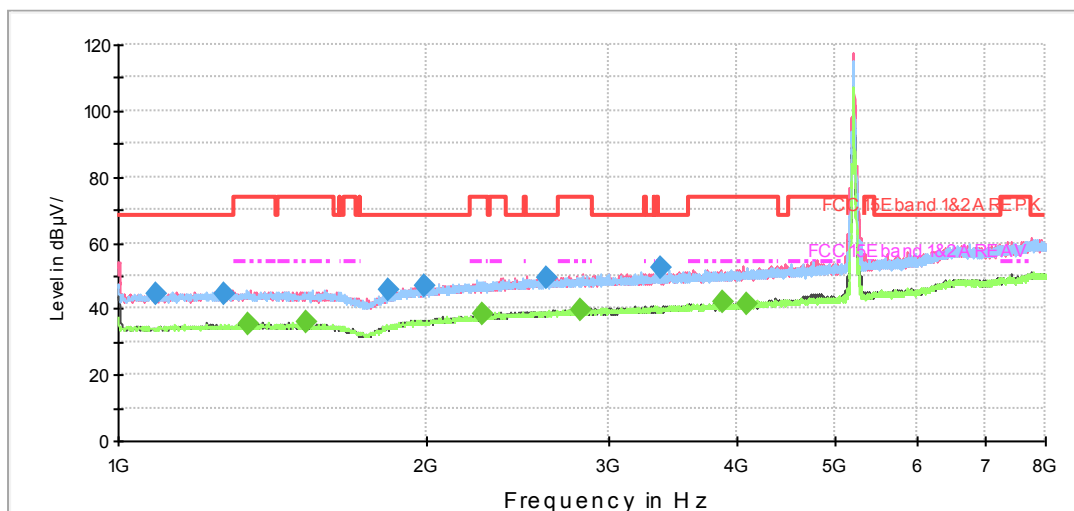
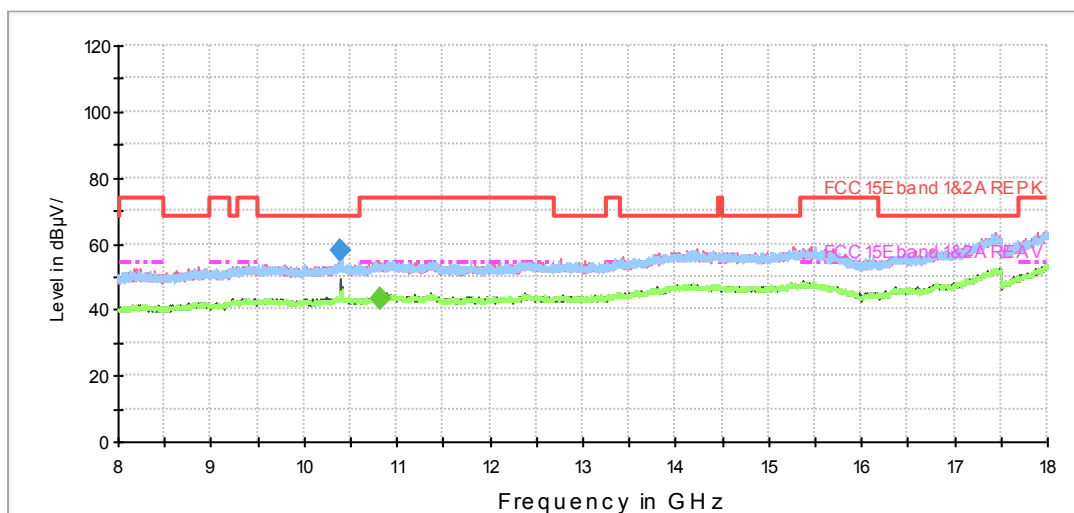


802.11a CH40



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



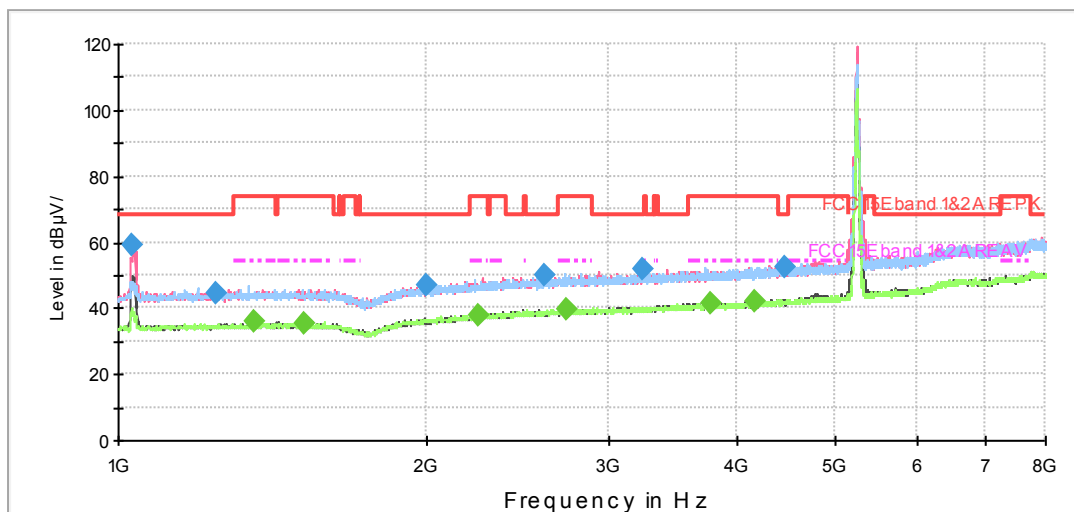
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1090.125000	44.3	200.0	H	0.0	-1.4	23.9	68.2
1270.375000	44.3	200.0	V	355.0	-1.1	23.9	68.2
1834.750000	45.5	200.0	V	358.0	0.7	22.7	68.2
1986.125000	47.0	200.0	V	0.0	1.1	21.2	68.2
2620.500000	49.5	200.0	V	342.0	3.8	18.7	68.2
3373.875000	52.1	200.0	V	0.0	5.7	16.1	68.2

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

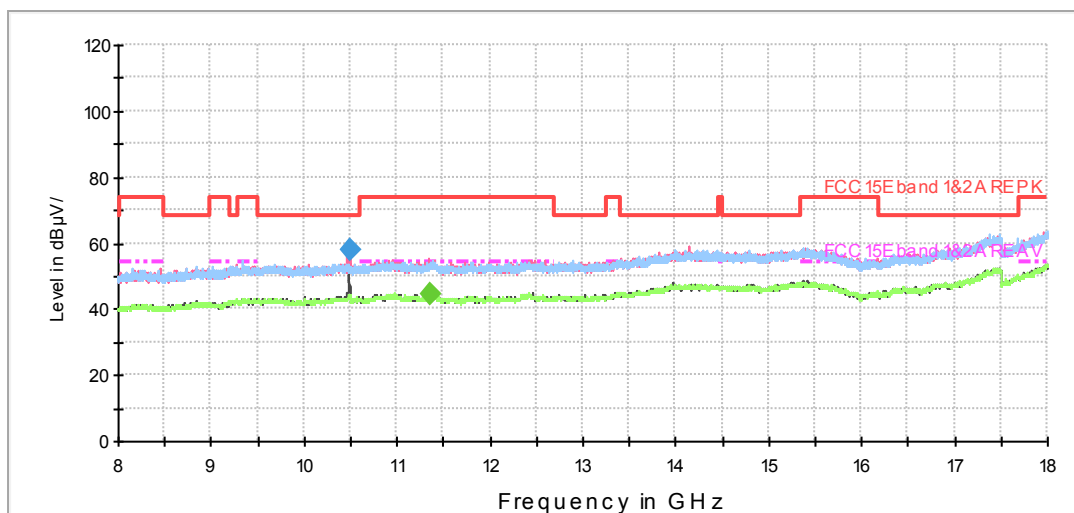
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1338.625000	35.2	200.0	V	342.0	-0.9	18.8	54.0
1525.875000	35.9	200.0	H	72.0	-0.3	18.1	54.0
2263.500000	38.1	200.0	V	130.0	2.6	15.9	54.0
2826.125000	39.8	200.0	V	162.0	4.4	14.2	54.0
3882.250000	41.8	200.0	H	88.0	7.0	12.2	54.0
4087.875000	41.6	200.0	H	1.0	7.6	12.4	54.0

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

802.11a CH48



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



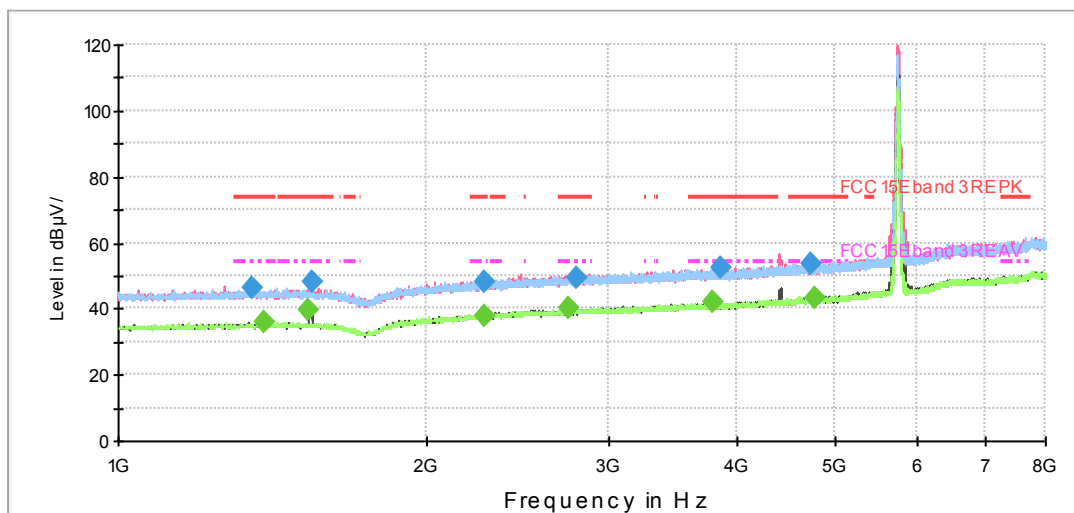
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1032.375000	58.8	200.0	V	343.0	-1.7	9.4	68.2
1246.750000	44.7	200.0	V	0.0	-1.1	23.5	68.2
1997.500000	46.9	200.0	H	116.0	1.1	21.3	68.2
2597.750000	50.2	200.0	V	210.0	3.8	18.0	68.2
3240.875000	51.8	200.0	V	258.0	5.4	16.4	68.2
4454.500000	52.3	200.0	V	163.0	8.7	15.9	68.2

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

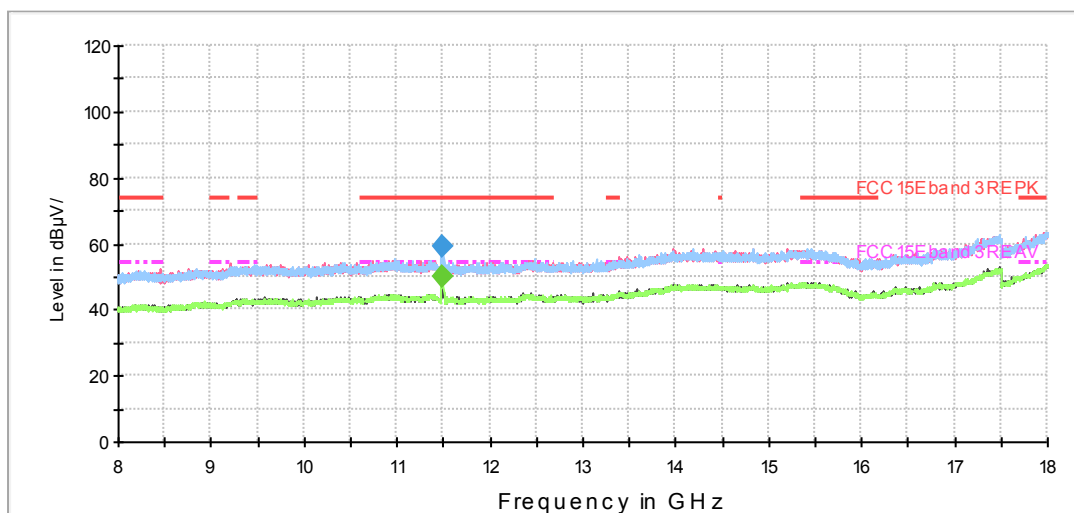
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1357.000000	35.7	200.0	H	4.0	-0.9	18.3	54.0
1521.500000	35.5	200.0	H	163.0	-0.3	18.5	54.0
2242.500000	37.6	200.0	V	349.0	2.4	16.4	54.0
2736.000000	39.8	200.0	V	353.0	4.1	14.2	54.0
3782.500000	41.6	200.0	V	357.0	6.8	12.4	54.0
1357.000000	35.7	200.0	H	4.0	-0.9	18.3	54.0

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

802.11a CH149



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

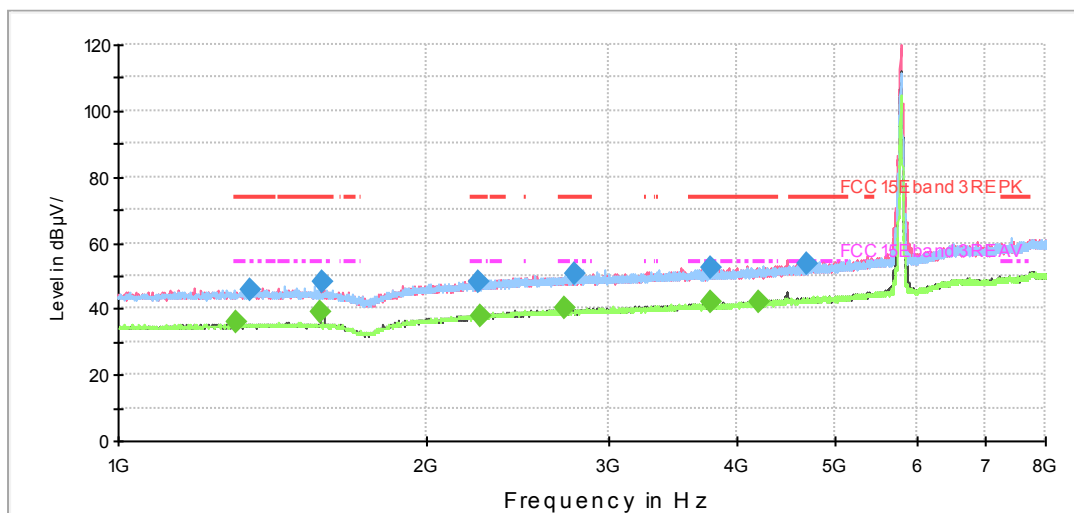
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1348.250000	46.4	200.0	V	107.0	-0.9	27.6	74.0
1545.125000	48.2	200.0	V	24.0	-0.2	25.8	74.0
2274.000000	48.1	100.0	H	122.0	2.7	25.9	74.0
2799.000000	49.6	200.0	H	217.0	4.3	24.4	74.0
3857.750000	52.1	200.0	V	7.0	6.9	21.9	74.0
4731.000000	53.9	100.0	H	196.0	9.2	20.1	74.0

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

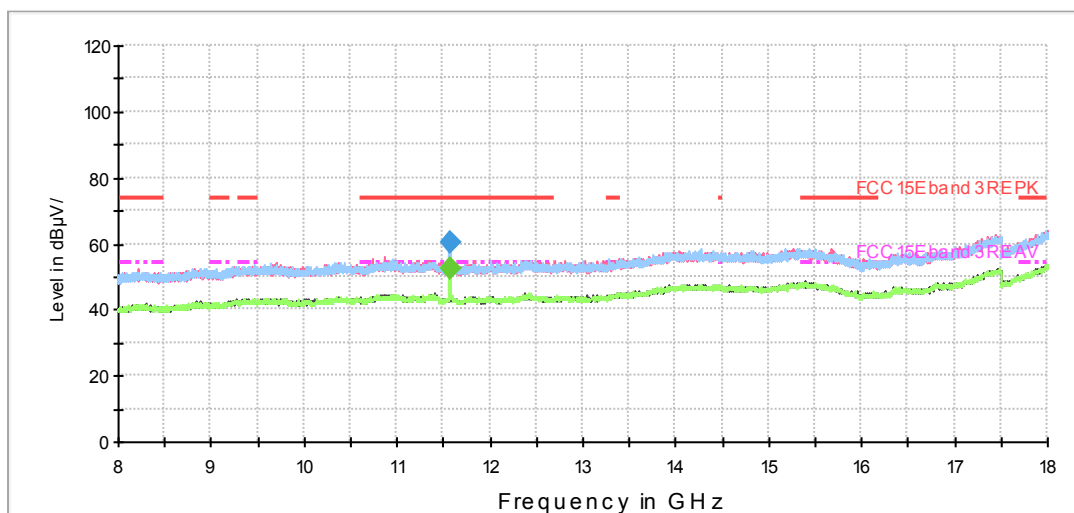
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1390.250000	36.0	100.0	V	263.0	-0.7	18.0	54.0
1533.750000	39.7	100.0	V	342.0	-0.3	14.3	54.0
2276.625000	38.0	100.0	V	162.0	2.7	16.0	54.0
2750.000000	39.9	200.0	V	43.0	4.1	14.1	54.0
3799.125000	41.9	100.0	H	185.0	6.8	12.1	54.0
4777.375000	43.4	200.0	V	43.0	9.3	10.6	54.0

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

802.11a CH157



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



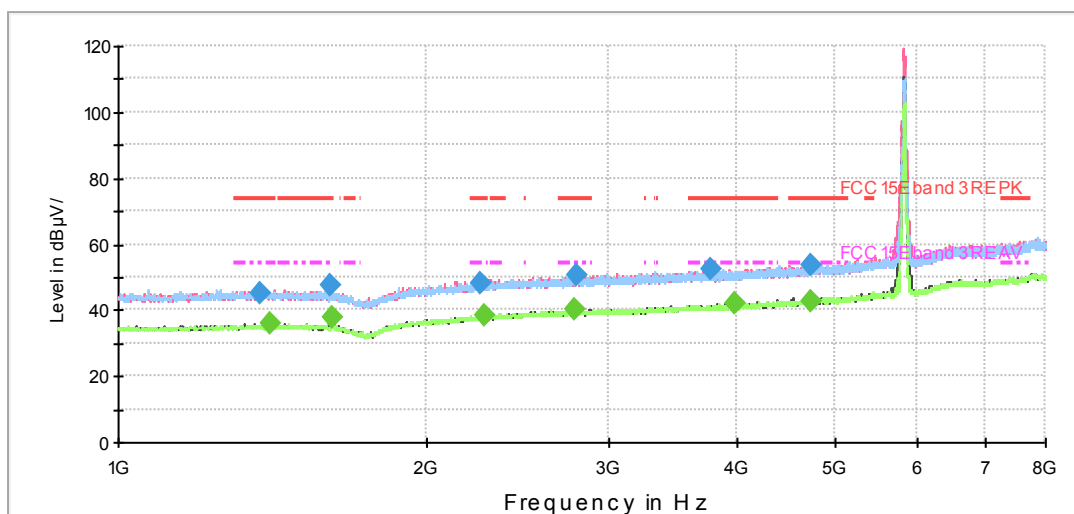
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1346.500000	45.7	100.0	V	263.0	-0.9	28.3	74.0
1580.125000	48.3	200.0	V	46.0	-0.1	25.7	74.0
2247.750000	48.0	100.0	H	0.0	2.4	26.0	74.0
2779.750000	50.4	100.0	H	37.0	4.2	23.6	74.0
3784.250000	52.1	100.0	H	0.0	6.8	21.9	74.0
4694.250000	53.4	200.0	V	185.0	9.2	20.6	74.0

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

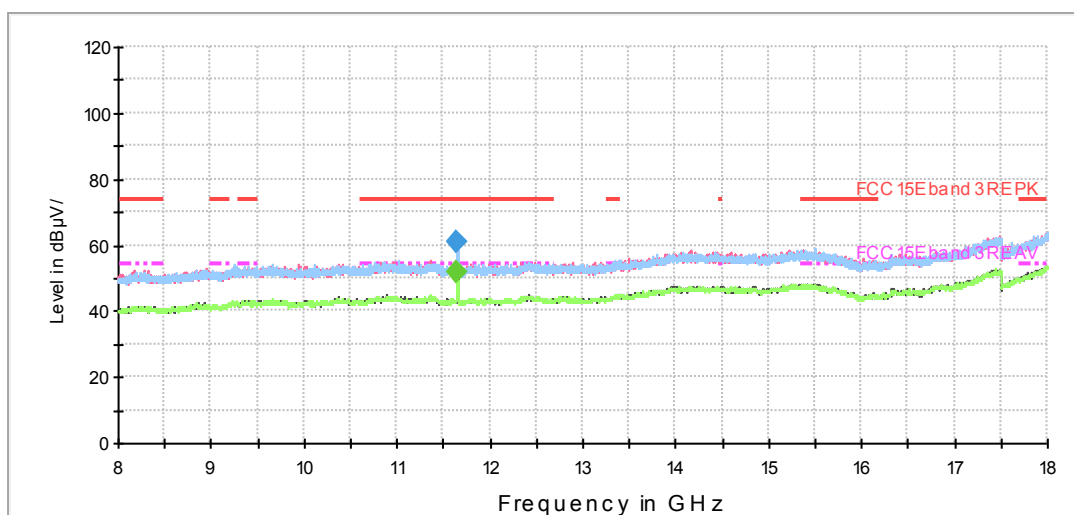
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1306.250000	35.7	200.0	H	36.0	-1.0	18.3	54.0
1576.625000	39.2	100.0	V	359.0	-0.1	14.8	54.0
2252.125000	38.0	200.0	V	57.0	2.5	16.0	54.0
2722.875000	40.0	200.0	V	26.0	4.1	14.0	54.0
3782.500000	41.9	200.0	H	130.0	6.8	12.1	54.0
4211.250000	42.2	100.0	H	2.0	7.9	11.8	54.0

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

802.11a CH165



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



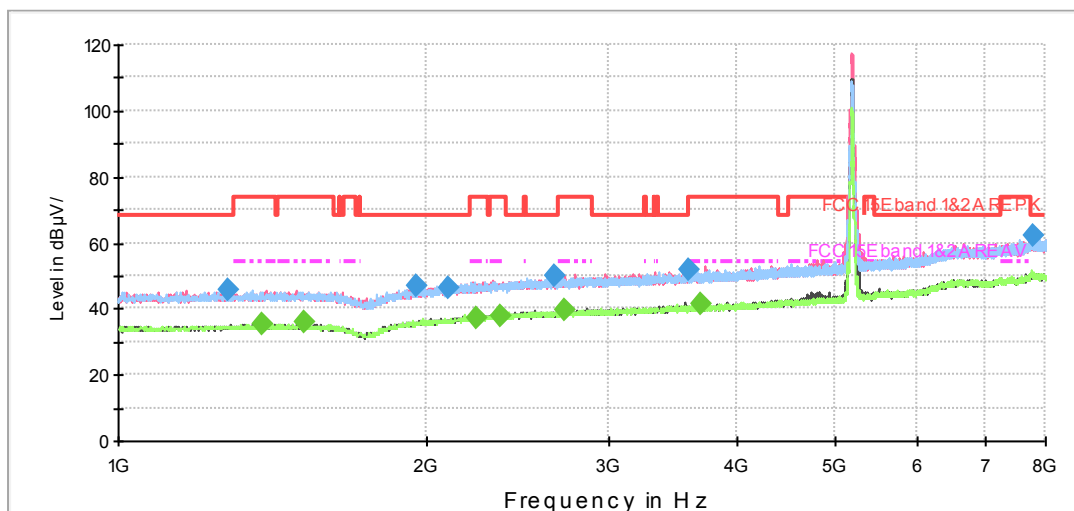
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1373.625000	45.2	200.0	H	238.0	-0.8	28.8	74.0
1612.500000	47.6	200.0	V	35.0	0.0	26.4	74.0
2257.375000	48.3	100.0	H	163.0	2.5	25.7	74.0
2794.625000	50.3	200.0	V	142.0	4.3	23.7	74.0
3775.500000	52.6	200.0	H	97.0	6.8	21.4	74.0
4719.625000	53.8	200.0	H	346.0	9.2	20.2	74.0

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

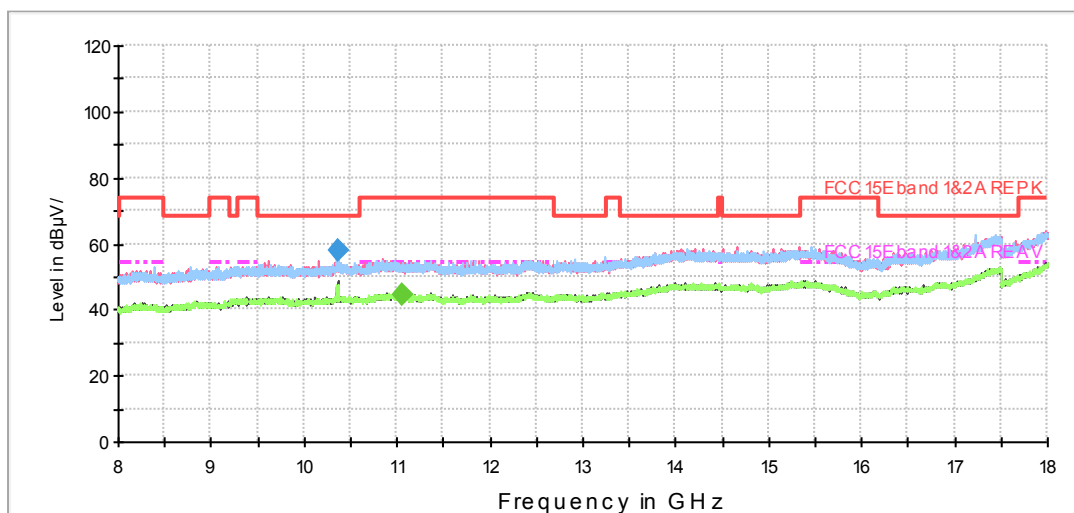
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1407.750000	35.7	100.0	V	354.0	-0.7	18.3	54.0
1619.500000	37.7	200.0	V	35.0	0.1	16.3	54.0
2274.875000	38.1	100.0	H	45.0	2.7	15.9	54.0
2788.500000	40.4	200.0	V	131.0	4.3	13.6	54.0
3991.625000	42.1	200.0	H	259.0	7.2	11.9	54.0
4730.125000	42.8	200.0	V	5.0	9.2	11.2	54.0

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

802.11n (HT20) CH36



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



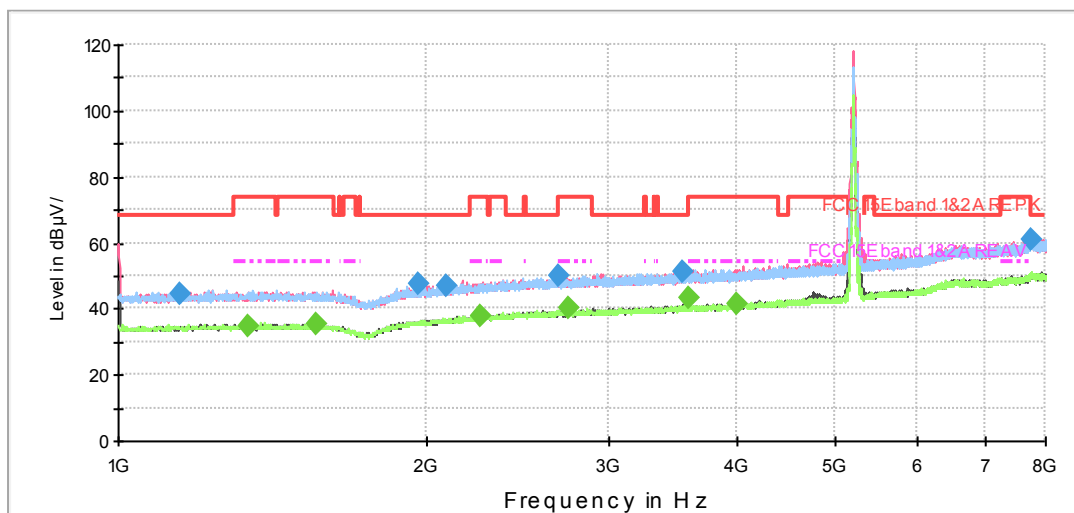
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1282.625000	45.8	200.0	H	58.0	-1.0	22.4	68.2
1952.875000	47.2	200.0	H	72.0	1.0	21.0	68.2
2102.500000	46.5	200.0	V	354.0	1.7	21.7	68.2
2662.500000	49.7	200.0	V	338.0	3.9	18.5	68.2
3590.000000	51.7	200.0	V	350.0	6.3	16.5	68.2
7795.250000	62.0	200.0	H	118.0	17.3	6.2	68.2

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

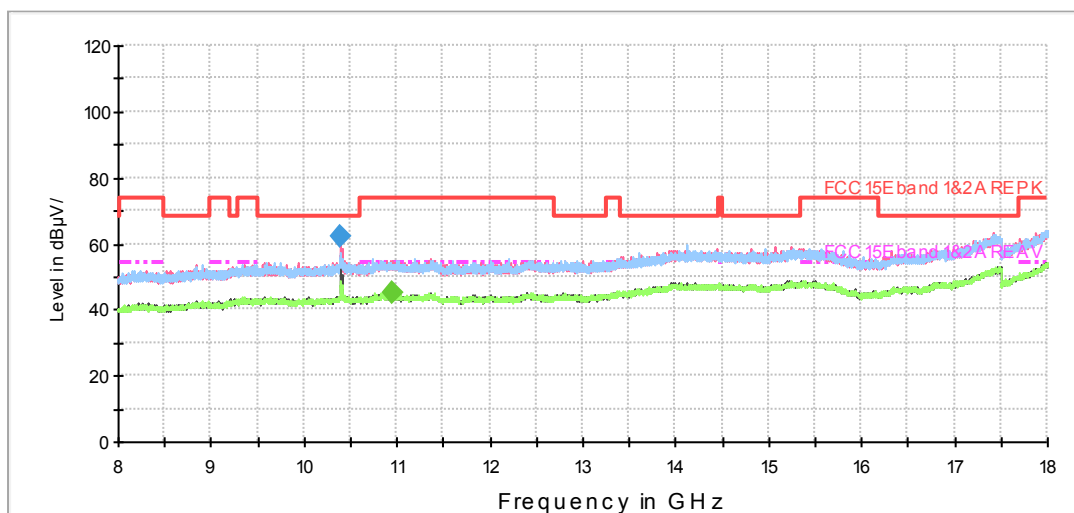
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1381.500000	35.6	200.0	V	329.0	-0.7	18.4	54.0
1520.625000	35.6	200.0	V	356.0	-0.3	18.4	54.0
2239.000000	37.3	200.0	H	3.0	2.4	16.7	54.0
2352.750000	37.9	200.0	H	16.0	3.0	16.1	54.0
2723.750000	39.6	200.0	H	24.0	4.1	14.4	54.0
3687.125000	41.1	200.0	V	359.0	6.5	12.9	54.0

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

802.11n (HT20) CH40



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

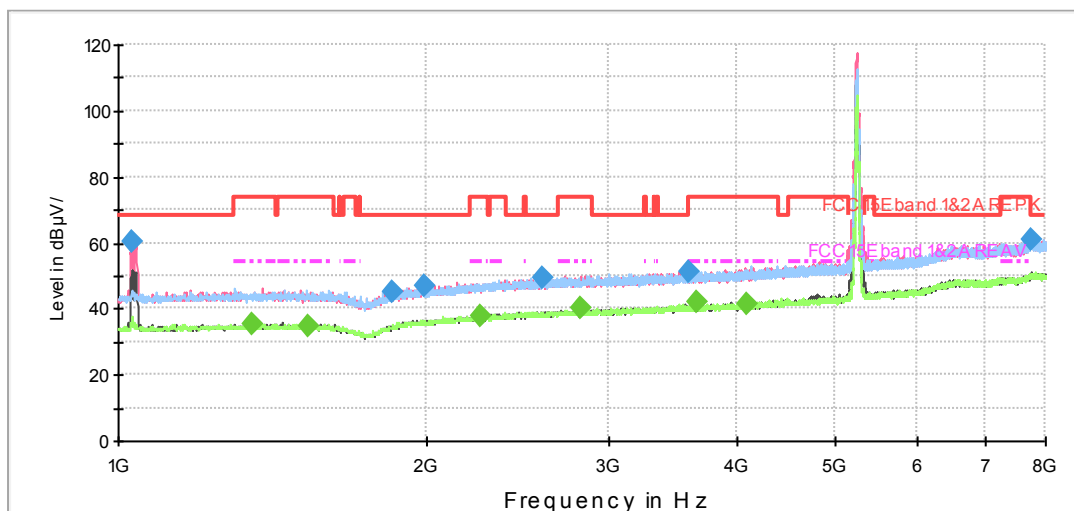
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1148.750000	44.4	200.0	V	272.0	-1.3	23.8	68.2
1964.250000	47.3	200.0	V	349.0	1.0	20.9	68.2
2090.250000	47.0	200.0	V	272.0	1.6	21.2	68.2
2682.625000	49.7	200.0	V	177.0	4.0	18.5	68.2
3549.750000	51.3	200.0	H	10.0	6.3	16.9	68.2
7760.250000	61.2	200.0	V	0.0	17.2	7.0	68.2

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

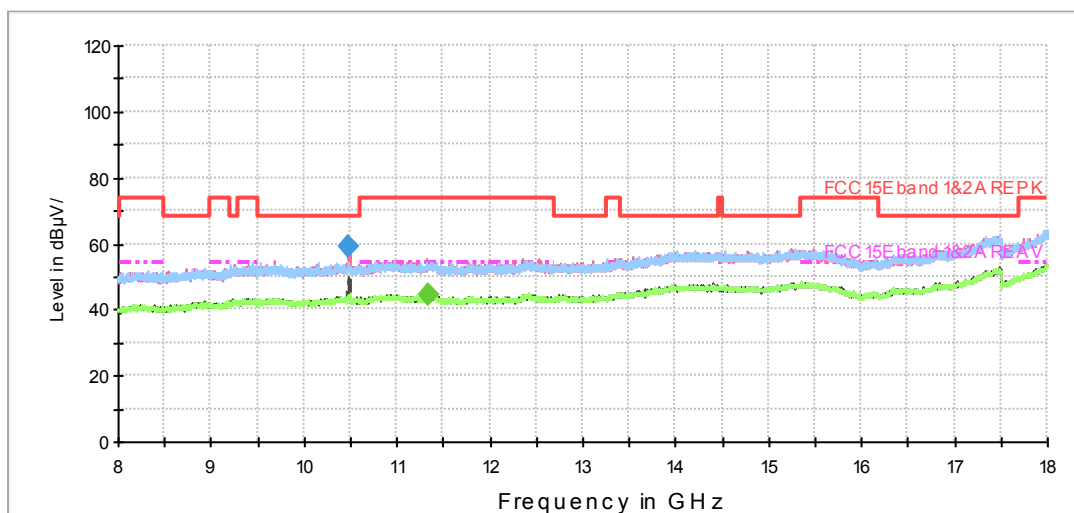
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1336.875000	34.9	200.0	V	0.0	-0.9	19.1	54.0
1556.500000	35.2	200.0	H	262.0	-0.2	18.8	54.0
2255.625000	37.6	200.0	H	246.0	2.5	16.4	54.0
2748.250000	40.0	200.0	H	7.0	4.1	14.0	54.0
3600.500000	43.2	200.0	V	335.0	6.3	10.8	54.0
4003.875000	41.3	200.0	H	55.0	7.3	12.7	54.0

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

802.11n (HT20) CH48



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



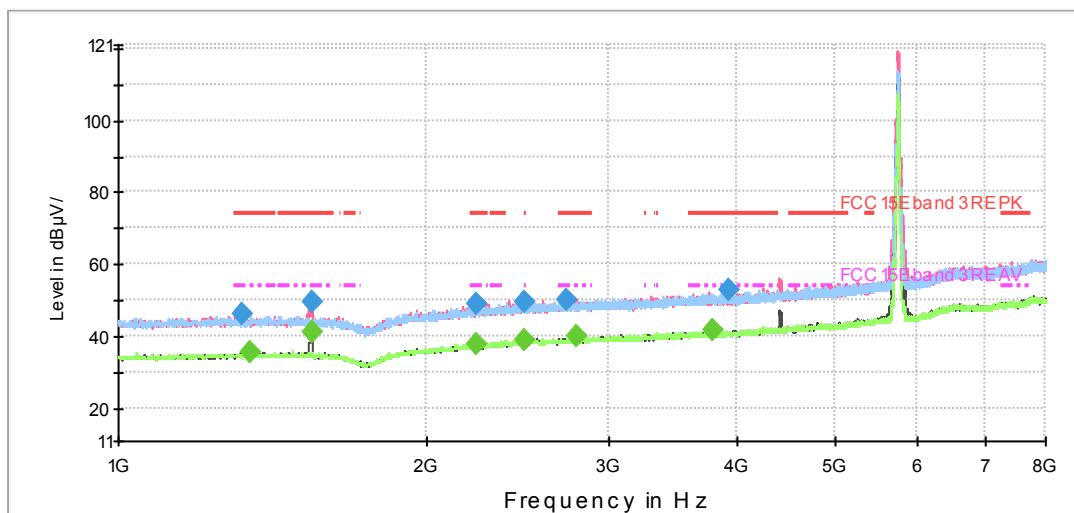
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1032.375000	60.2	200.0	V	336.0	-1.7	8.0	68.2
1846.125000	45.2	200.0	H	197.0	0.7	23.0	68.2
1984.375000	46.7	200.0	V	0.0	1.1	21.5	68.2
2585.500000	49.6	200.0	H	1.0	3.8	18.6	68.2
3594.375000	51.3	200.0	V	303.0	6.3	16.9	68.2
7754.125000	61.0	200.0	V	356.0	17.2	7.2	68.2

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

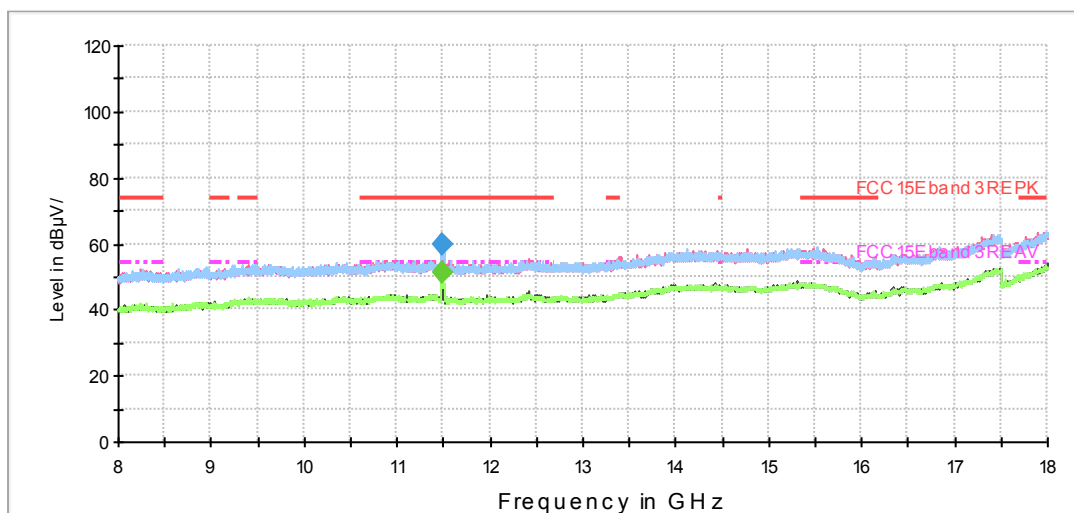
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1351.750000	35.1	200.0	V	303.0	-0.9	18.9	54.0
1530.250000	35.0	200.0	V	327.0	-0.3	19.0	54.0
2249.500000	37.6	200.0	H	280.0	2.4	16.4	54.0
2825.250000	40.0	200.0	H	33.0	4.4	14.0	54.0
3654.750000	42.0	200.0	V	358.0	6.5	12.0	54.0
4096.625000	41.7	200.0	V	0.0	7.6	12.3	54.0

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

802.11n (HT20) CH149



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



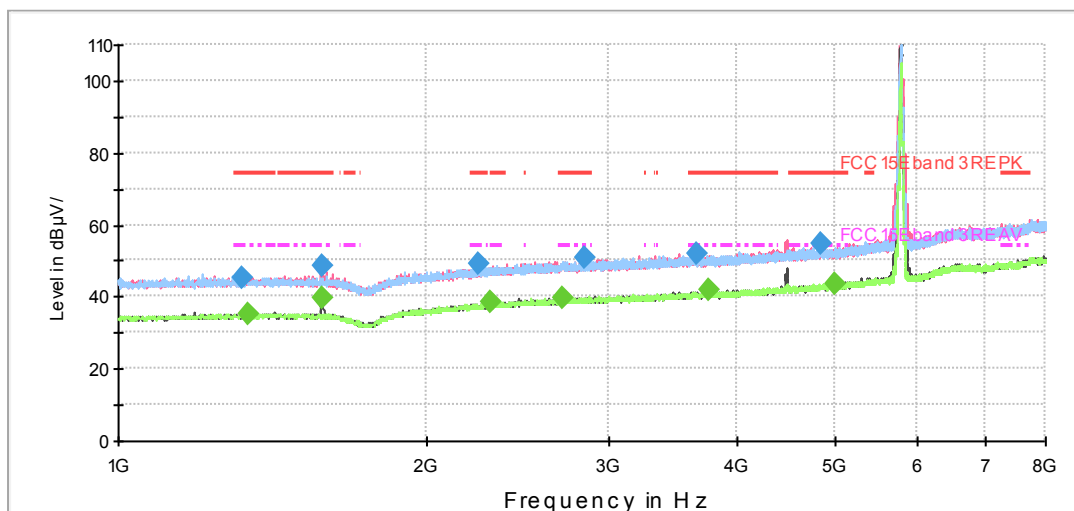
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1320.250000	46.4	100.0	H	37.0	-0.9	27.6	74.0
1546.875000	49.6	100.0	V	0.0	-0.2	24.4	74.0
2237.250000	48.7	100.0	H	28.0	2.4	25.3	74.0
2488.375000	49.3	200.0	V	22.0	3.6	24.7	74.0
2734.250000	50.3	200.0	V	3.0	4.1	23.7	74.0
3942.625000	52.9	100.0	V	317.0	7.1	21.1	74.0

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

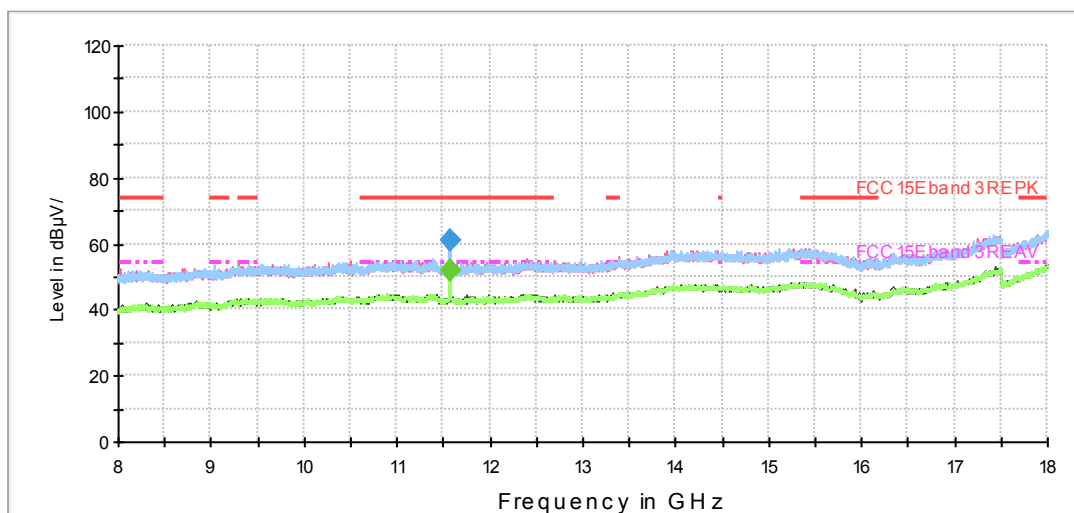
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1343.875000	35.7	200.0	H	232.0	-0.9	18.3	54.0
1542.500000	41.1	100.0	V	0.0	-0.3	12.9	54.0
2237.250000	37.6	200.0	V	139.0	2.4	16.4	54.0
2492.750000	38.9	100.0	H	20.0	3.6	15.1	54.0
2794.625000	40.0	200.0	H	359.0	4.3	14.0	54.0
3794.750000	42.0	200.0	V	309.0	6.8	12.0	54.0

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

802.11n (HT20) CH157



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



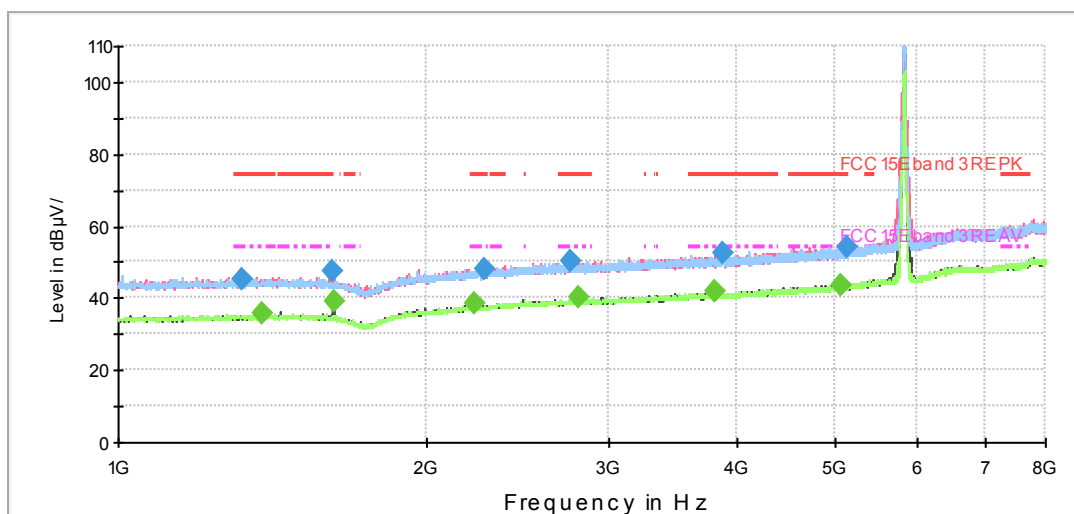
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1321.125000	45.3	100.0	V	292.0	-0.9	28.7	74.0
1578.375000	48.4	100.0	V	0.0	-0.1	25.6	74.0
2241.625000	49.2	100.0	V	347.0	2.4	24.8	74.0
2849.750000	50.9	200.0	V	24.0	4.4	23.1	74.0
3668.750000	51.7	100.0	V	227.0	6.6	22.3	74.0
4841.250000	54.7	200.0	H	130.0	9.4	19.3	74.0

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

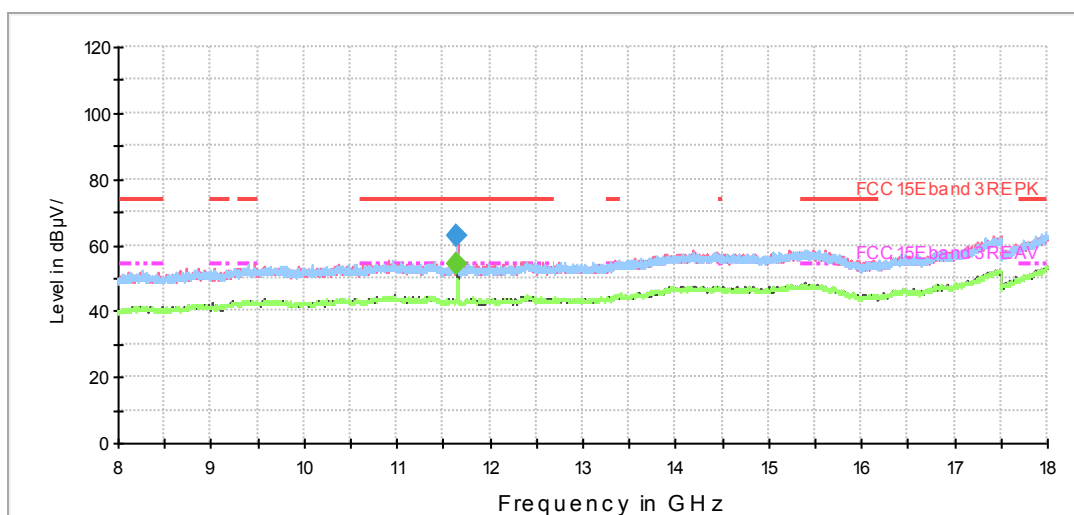
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1340.375000	35.3	200.0	V	2.0	-0.9	18.7	54.0
1578.375000	39.9	100.0	V	0.0	-0.1	14.1	54.0
2310.750000	38.4	100.0	V	312.0	2.8	15.6	54.0
2704.500000	39.8	100.0	H	93.0	4.0	14.2	54.0
3763.250000	41.7	100.0	V	196.0	6.7	12.3	54.0
4989.125000	43.8	200.0	V	182.0	9.5	10.2	54.0

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

802.11n (HT20) CH165



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

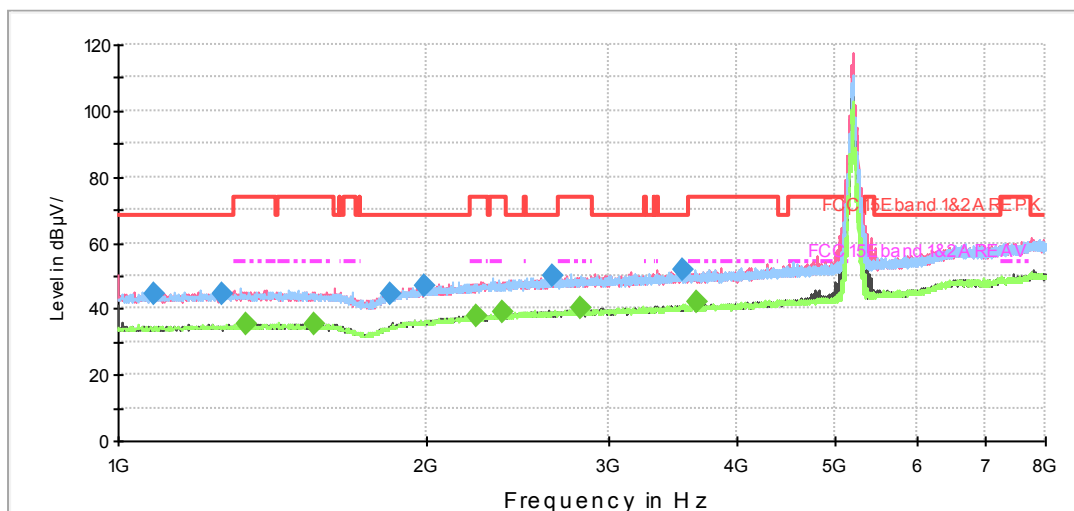
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1318.500000	45.1	100.0	H	106.0	-0.9	28.9	74.0
1619.500000	47.2	100.0	V	342.0	0.1	26.8	74.0
2272.250000	48.1	100.0	V	357.0	2.7	25.9	74.0
2755.250000	50.4	100.0	V	326.0	4.2	23.6	74.0
3877.875000	52.4	100.0	H	272.0	7.0	21.6	74.0
5118.625000	53.9	200.0	V	43.0	10.0	20.1	74.0

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

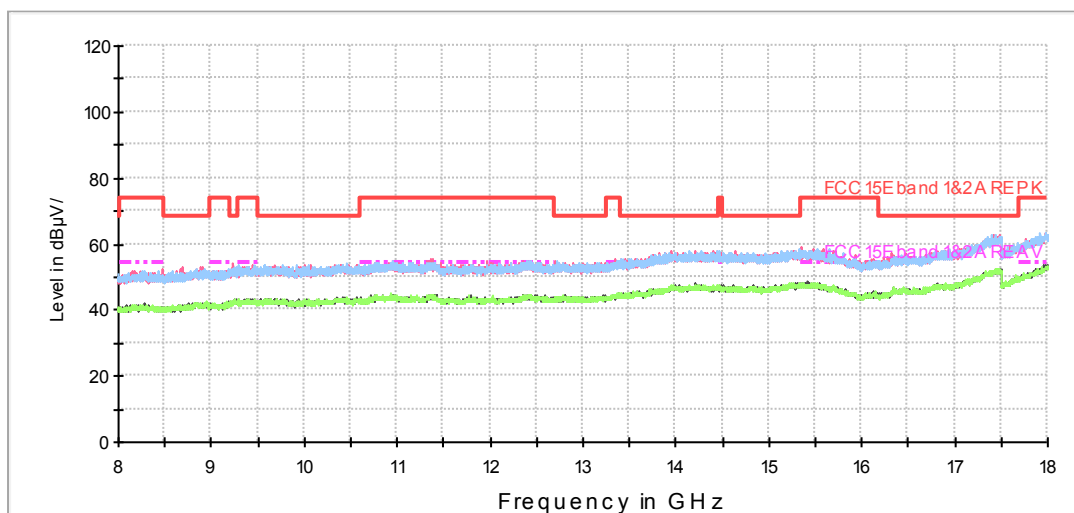
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1380.625000	35.7	200.0	H	123.0	-0.7	18.3	54.0
1623.000000	38.8	200.0	V	54.0	0.1	15.2	54.0
2220.625000	38.3	100.0	V	357.0	2.3	15.7	54.0
2807.750000	40.0	200.0	H	357.0	4.3	14.0	54.0
3804.375000	41.6	100.0	H	11.0	6.8	12.4	54.0
5051.250000	43.6	100.0	V	196.0	9.8	10.4	54.0

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

802.11n (HT40) CH38



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



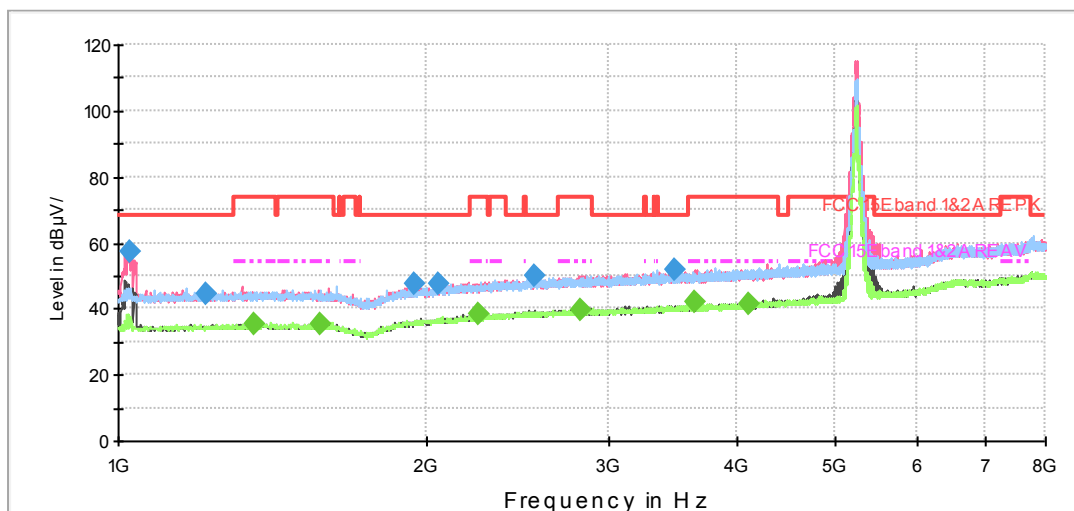
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1084.000000	44.5	200.0	V	246.0	-1.5	23.7	68.2
1264.250000	44.2	200.0	H	9.0	-1.1	24.0	68.2
1840.000000	44.2	200.0	V	319.0	0.7	24.0	68.2
1987.875000	46.7	200.0	V	0.0	1.1	21.5	68.2
2649.375000	49.8	200.0	H	1.0	3.9	18.4	68.2
3555.875000	51.9	200.0	V	345.0	6.3	16.3	68.2

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

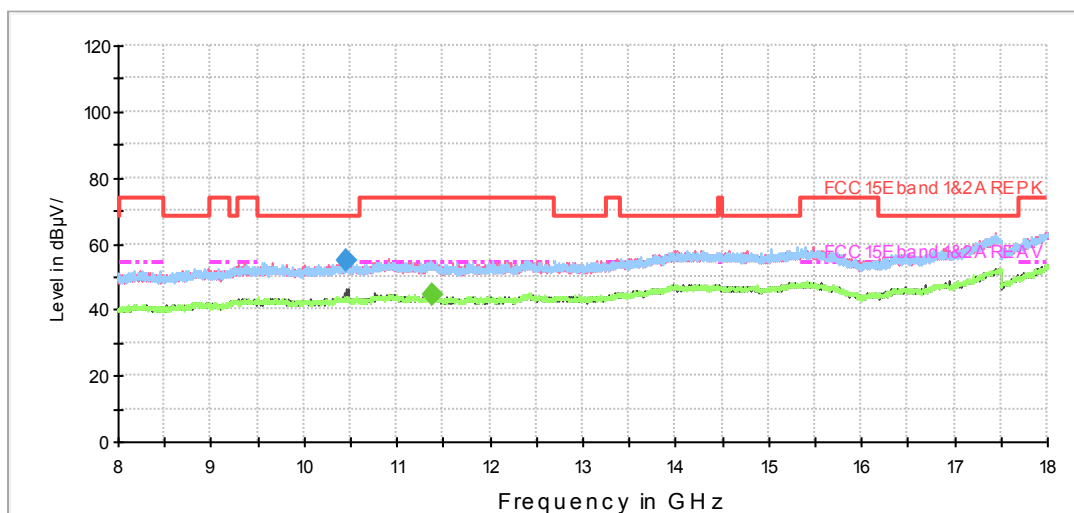
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1335.125000	35.1	200.0	V	338.0	-0.9	18.9	54.0
1555.625000	35.3	200.0	V	246.0	-0.2	18.7	54.0
2234.625000	37.9	200.0	V	330.0	2.4	16.1	54.0
2364.125000	38.8	200.0	V	262.0	3.0	15.2	54.0
2818.250000	40.4	200.0	H	128.0	4.3	13.6	54.0
3663.500000	41.9	200.0	H	0.0	6.5	12.1	54.0

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

802.11n (HT40) CH46



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



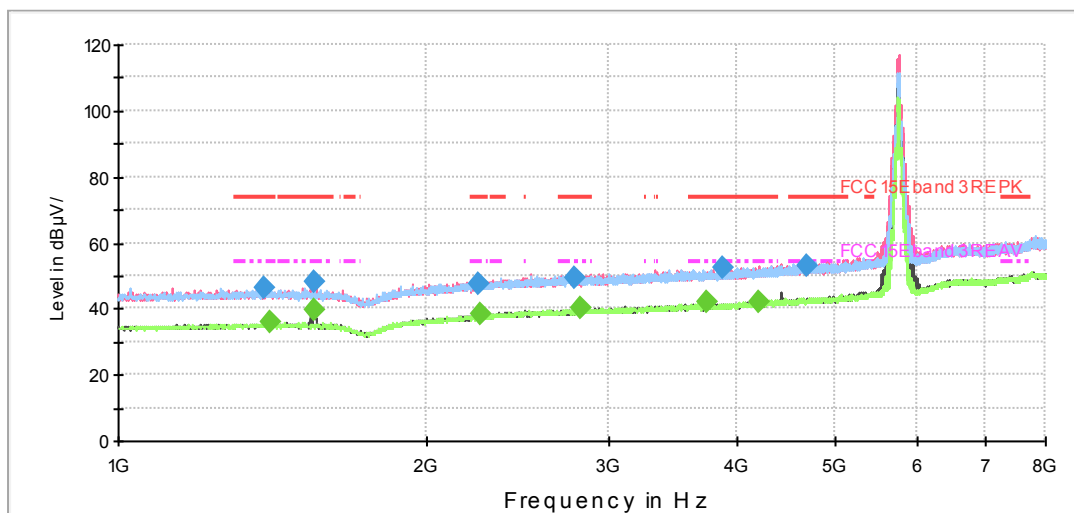
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1028.875000	57.1	200.0	V	343.0	-1.8	11.1	68.2
1218.750000	44.3	200.0	V	287.0	-1.2	23.9	68.2
1942.375000	47.3	200.0	V	0.0	1.0	20.9	68.2
2052.625000	47.4	200.0	V	9.0	1.4	20.8	68.2
2547.875000	50.1	200.0	H	117.0	3.7	18.1	68.2
3483.250000	51.7	200.0	H	1.0	6.0	16.5	68.2

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

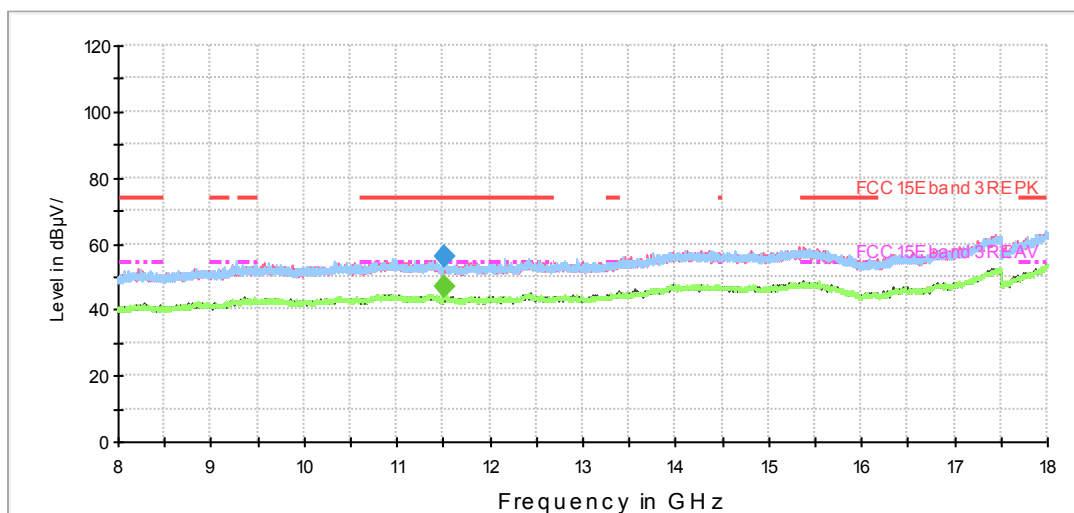
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1355.250000	35.4	200.0	H	335.0	-0.9	18.6	54.0
1570.500000	35.4	200.0	H	0.0	-0.1	18.6	54.0
2248.625000	38.2	200.0	V	241.0	2.4	15.8	54.0
2822.625000	39.8	200.0	V	357.0	4.4	14.2	54.0
3646.875000	42.2	200.0	V	335.0	6.5	11.8	54.0
4108.000000	41.7	200.0	V	349.0	7.7	12.3	54.0

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

802.11n (HT40) CH151



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



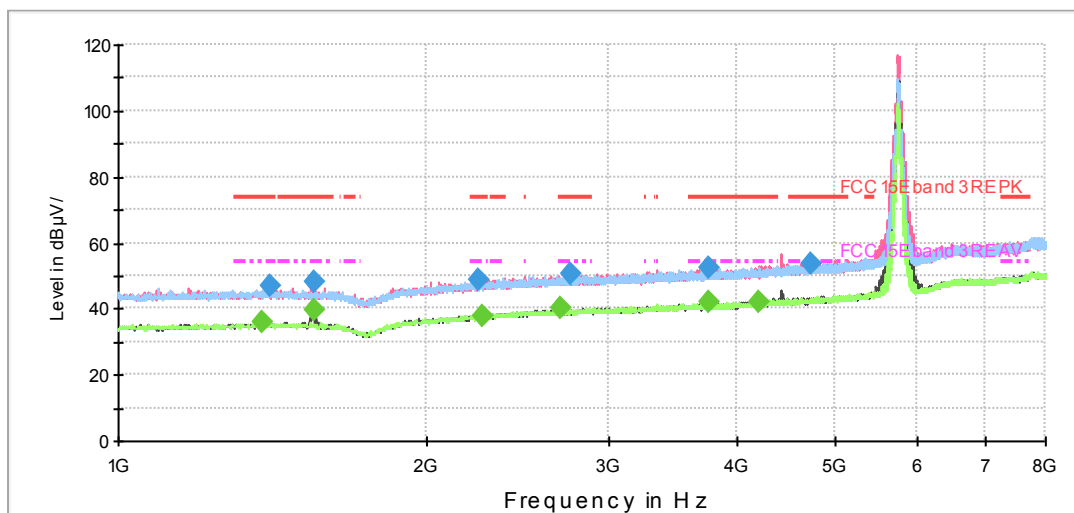
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1386.750000	46.3	200.0	H	358.0	-0.7	27.7	74.0
1552.125000	48.4	200.0	V	41.0	-0.2	25.6	74.0
2241.625000	47.4	100.0	V	359.0	2.4	26.6	74.0
2790.250000	49.2	100.0	H	3.0	4.3	24.8	74.0
3880.500000	52.2	200.0	H	347.0	7.0	21.8	74.0
4689.000000	53.2	100.0	H	84.0	9.2	20.8	74.0

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

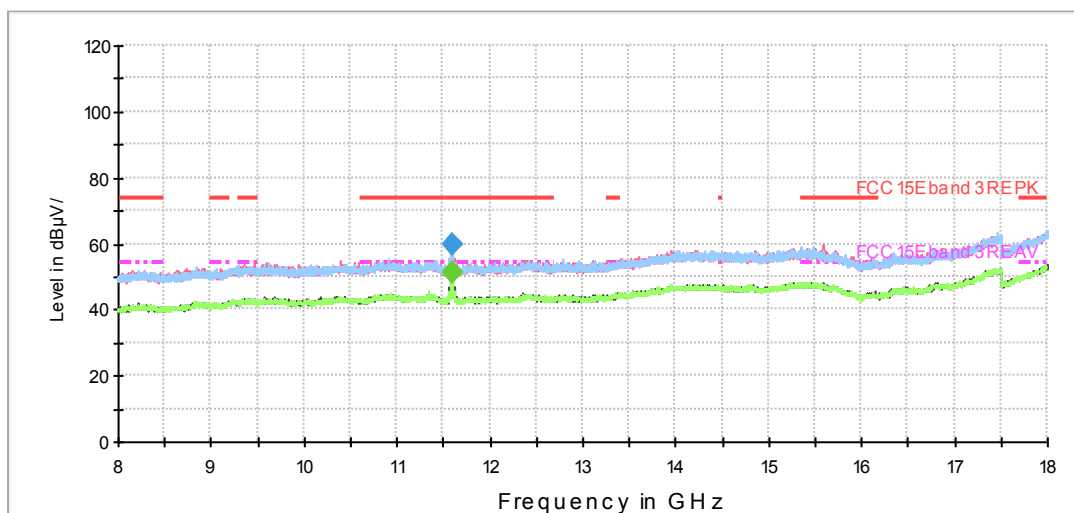
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1409.500000	35.8	200.0	V	351.0	-0.7	18.2	54.0
1554.750000	39.5	200.0	V	41.0	-0.2	14.5	54.0
2255.625000	38.2	100.0	H	15.0	2.5	15.8	54.0
2827.875000	40.2	200.0	V	30.0	4.4	13.8	54.0
3751.875000	42.2	200.0	H	9.0	6.7	11.8	54.0
4206.875000	42.2	200.0	V	83.0	7.9	11.8	54.0

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

802.11n (HT40) CH159



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



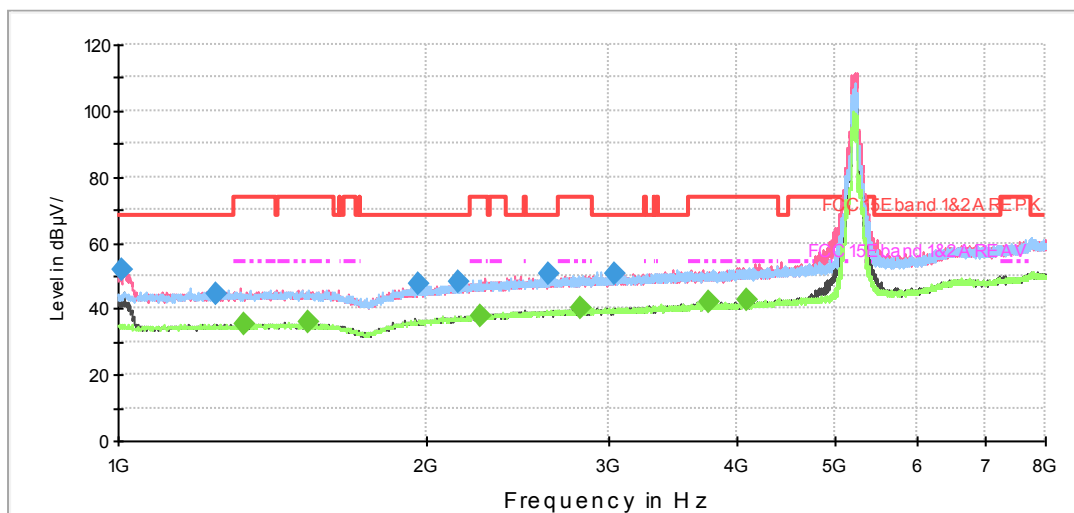
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1406.000000	46.9	200.0	H	100.0	-0.7	27.1	74.0
1551.250000	47.8	200.0	V	42.0	-0.2	26.2	74.0
2239.875000	48.6	200.0	H	144.0	2.4	25.4	74.0
2753.500000	50.6	100.0	V	187.0	4.2	23.4	74.0
3770.250000	52.5	200.0	V	64.0	6.8	21.5	74.0
4735.375000	53.4	200.0	V	150.0	9.2	20.6	74.0

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

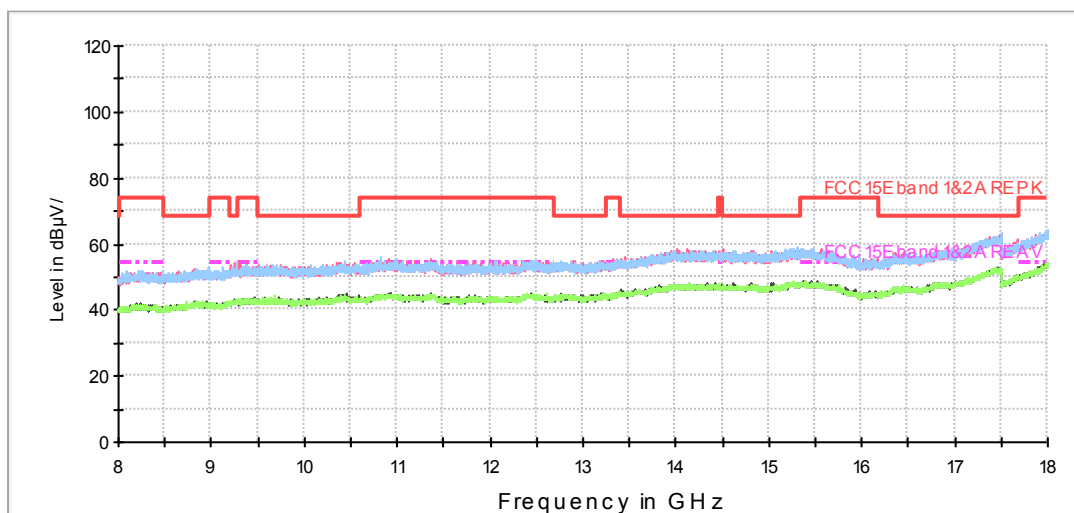
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1380.625000	35.7	100.0	H	200.0	-0.7	18.3	54.0
1550.375000	39.6	100.0	V	349.0	-0.2	14.4	54.0
2261.750000	37.8	200.0	V	96.0	2.6	16.2	54.0
2701.000000	40.0	200.0	H	275.0	4.0	14.0	54.0
3760.625000	42.1	200.0	H	39.0	6.7	11.9	54.0
4205.125000	42.1	100.0	V	306.0	7.8	11.9	54.0

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

802.11ac (HT80) CH42



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



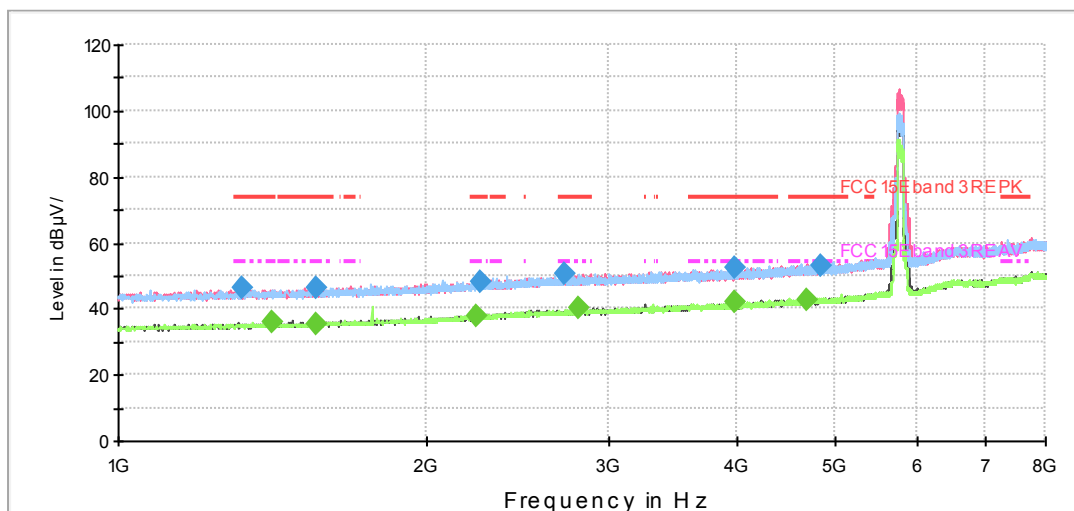
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1008.750000	51.6	200.0	V	345.0	-1.9	16.6	68.2
1245.875000	44.5	200.0	H	0.0	-1.1	23.7	68.2
1965.125000	47.5	200.0	H	283.0	1.0	20.7	68.2
2148.000000	48.2	200.0	H	63.0	1.9	20.0	68.2
2624.000000	50.6	200.0	V	233.0	3.8	17.6	68.2
3044.875000	50.4	200.0	V	0.0	4.9	17.8	68.2

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

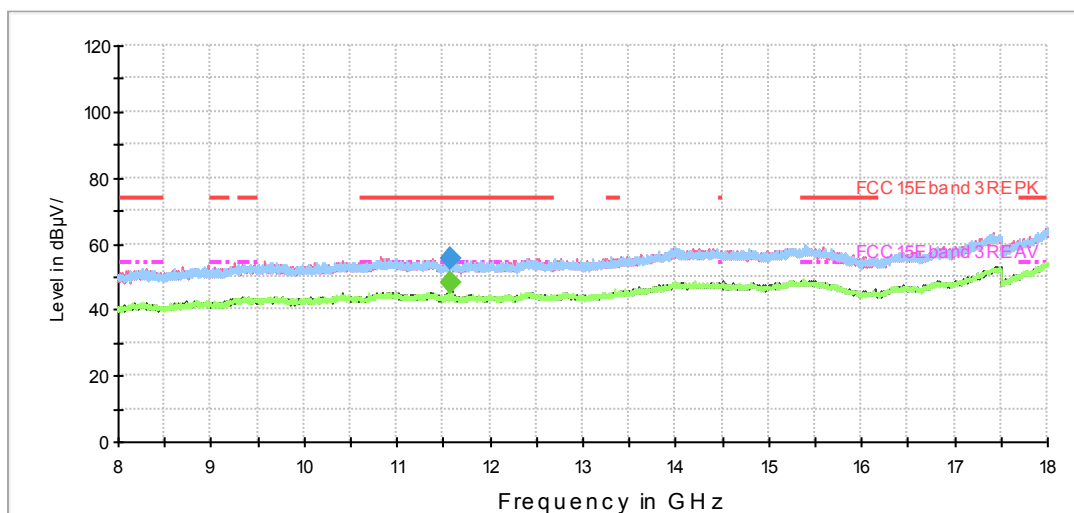
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1324.625000	35.4	200.0	V	0.0	-0.9	18.6	54.0
1530.250000	35.6	200.0	V	248.0	-0.3	18.4	54.0
2256.500000	37.6	200.0	V	279.0	2.5	16.4	54.0
2821.750000	40.0	200.0	V	0.0	4.4	14.0	54.0
3753.625000	42.1	200.0	H	20.0	6.7	11.9	54.0
4092.250000	42.4	200.0	V	350.0	7.6	11.6	54.0

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

802.11ac (HT80) CH155



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1318.500000	46.2	200.0	V	12.0	-0.9	27.8	74.0
1561.750000	46.6	100.0	H	172.0	-0.2	27.4	74.0
2257.375000	48.3	100.0	V	359.0	2.5	25.7	74.0
2716.750000	50.4	100.0	V	210.0	4.1	23.6	74.0
3983.750000	52.2	100.0	V	285.0	7.2	21.8	74.0
4827.250000	52.9	100.0	V	0.0	9.4	21.1	74.0

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1412.125000	36.0	100.0	V	343.0	-0.7	18.0	54.0
1558.250000	35.5	100.0	V	0.0	-0.2	18.5	54.0
2239.000000	37.6	200.0	V	67.0	2.4	16.4	54.0
2803.375000	39.9	200.0	V	2.0	4.3	14.1	54.0
3991.625000	42.1	200.0	H	143.0	7.2	11.9	54.0
4692.500000	42.9	100.0	V	221.0	9.2	11.1	54.0

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

5.6. Conducted Emission

Ambient condition

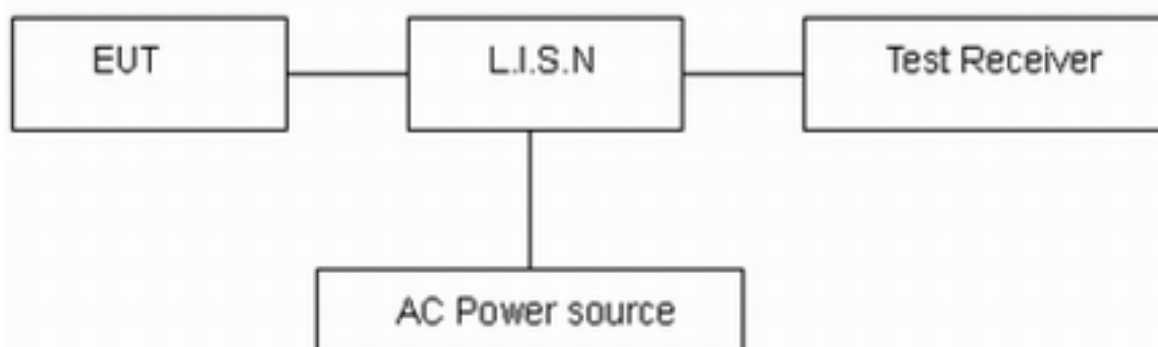
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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 LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, 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(dB μ V)	
	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.		

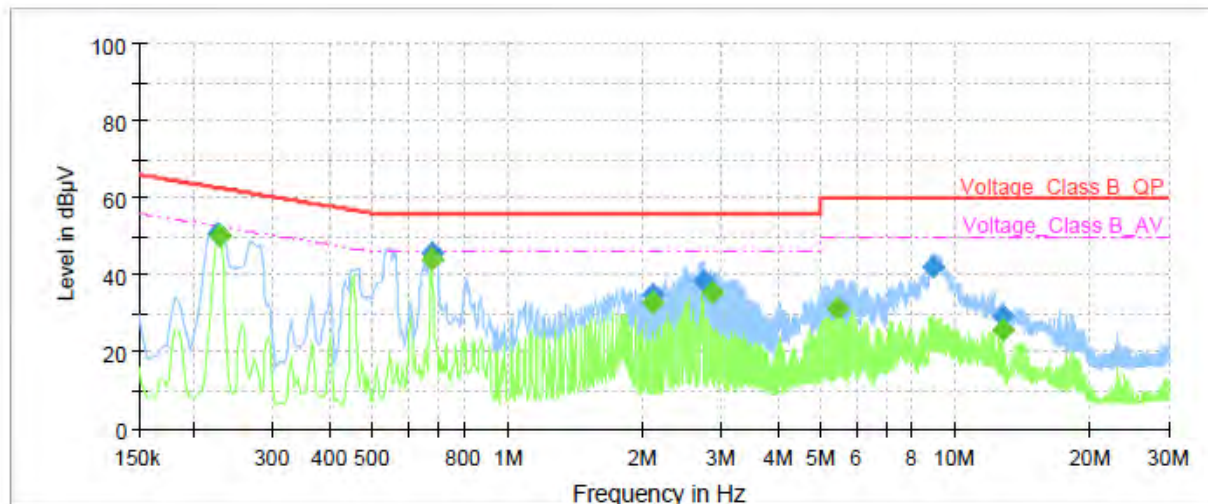
Measurement Uncertainty

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.

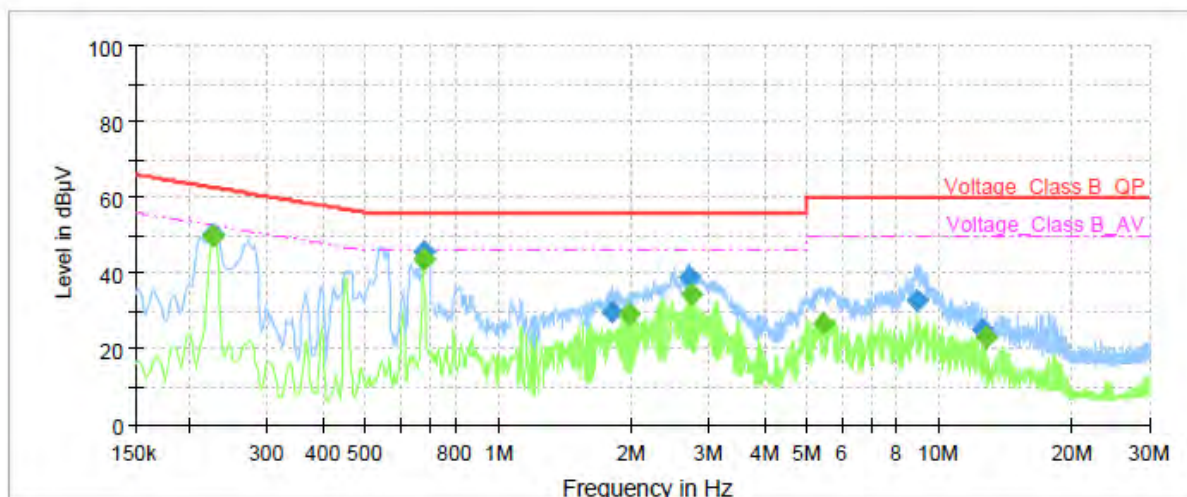
During the test, the Conducted Emission was performed in all modes with all channels, 802.11n (HT20) CH36 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.22	50.66	---	62.66	12.00	1000.0	9.000	L1	ON	19
0.23	---	50.04	52.58	2.54	1000.0	9.000	L1	ON	19
0.67	45.76	---	56.00	10.24	1000.0	9.000	L1	ON	19
0.68	---	44.22	46.00	1.78	1000.0	9.000	L1	ON	19
2.11	34.66	---	56.00	21.34	1000.0	9.000	L1	ON	19
2.11	---	32.61	46.00	13.39	1000.0	9.000	L1	ON	19
2.73	38.37	---	56.00	17.63	1000.0	9.000	L1	ON	19
2.88	---	35.41	46.00	10.59	1000.0	9.000	L1	ON	19
5.46	---	31.46	50.00	18.54	1000.0	9.000	L1	ON	19
8.93	41.99	---	60.00	18.01	1000.0	9.000	L1	ON	19
12.75	---	25.39	50.00	24.61	1000.0	9.000	L1	ON	19
12.75	29.47	---	60.00	30.53	1000.0	9.000	L1	ON	19

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.22	---	49.72	52.66	2.94	1000.0	9.000	N	ON	19
0.22	50.39	---	62.66	12.27	1000.0	9.000	N	ON	19
0.67	---	43.61	46.00	2.39	1000.0	9.000	N	ON	19
0.67	45.63	---	56.00	10.37	1000.0	9.000	N	ON	19
1.80	29.85	---	56.00	26.15	1000.0	9.000	N	ON	19
1.98	---	29.45	46.00	16.55	1000.0	9.000	N	ON	19
2.72	38.75	---	56.00	17.25	1000.0	9.000	N	ON	19
2.74	---	34.51	46.00	11.49	1000.0	9.000	N	ON	19
5.46	---	26.66	50.00	23.34	1000.0	9.000	N	ON	19
8.93	32.87	---	60.00	27.13	1000.0	9.000	N	ON	19
12.50	25.28	---	60.00	34.72	1000.0	9.000	N	ON	19
12.75	---	22.87	50.00	27.13	1000.0	9.000	N	ON	19

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz



6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV40	15195-01-00	2019-05-19	2020-05-18
Spectrum Analyzer	R&S	FSV40	15195-01-00	2020-05-18	2021-05-17
EMI Test Receiver	R&S	ESCI	100948	2019-05-19	2020-05-18
EMI Test Receiver	R&S	ESCI	100948	2020-05-18	2021-05-17
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2017-09-26	2020-09-25
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	9163-201	2017-11-18	2020-11-17
Horn Antenna	R&S	HF907	102723	2018-08-11	2021-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102643	2018-06-20	2021-06-19
Standard Gain Horn	STEATITE	QSH-SL-26-40 -K-15	16779	2019-12-24	2022-12-23
Broadband Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2018-07-07	2021-07-06
EMI Test Receiver	R&S	ESR	101667	2019-05-19	2020-05-18
EMI Test Receiver	R&S	ESR	101667	2020-05-18	2021-05-17
LISN	R&S	ENV216	101171	2018-12-15	2021-12-14
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420163	2019-12-15	2020-12-14
RF Cable	Agilent	SMA 15cm	0001	2019-12-13	2020-06-12
RF Cable	Agilent	SMA 15cm	0001	2020-06-12	2020-12-11
TEMPERATURE CHAMBER	WEISS	VT4002	582261194500 10	2019-12-15	2020-12-14
Power Meter	R&S	NRP2	104306	2019-05-19	2020-05-18
Power Meter	R&S	NRP2	104306	2020-05-18	2021-05-17
Power Sensor	R&S	NRP-Z21	104799	2019-05-19	2020-05-18
Power Sensor	R&S	NRP-Z21	104799	2020-05-18	2021-05-17
DC Power Supply	GWINSTEK	GPS-3030D	GEP882653	2019-05-19	2020-05-18
DC Power Supply	GWINSTEK	GPS-3030D	GEP882653	2020-05-18	2021-05-17
Software	R&S	EMC32	9.26.0	/	/

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