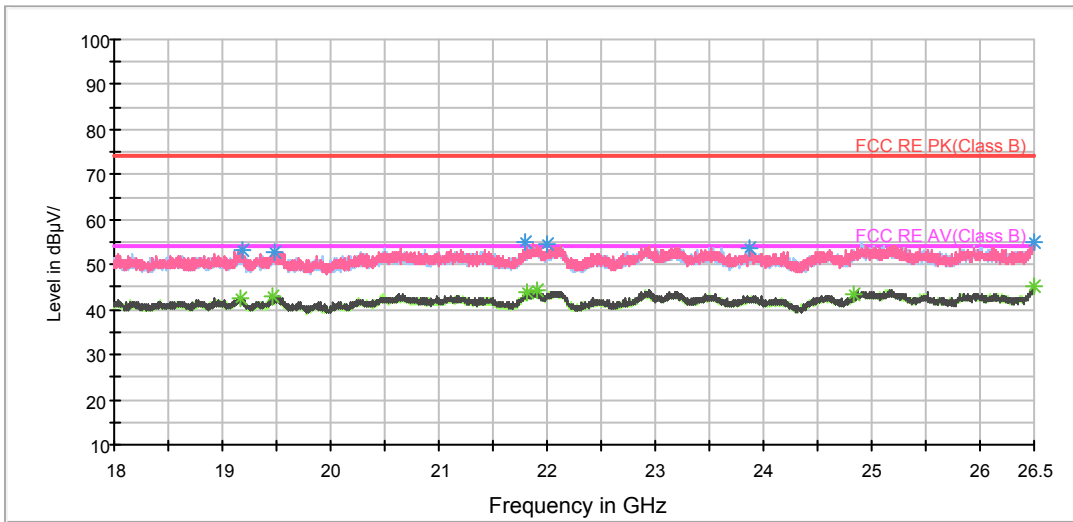
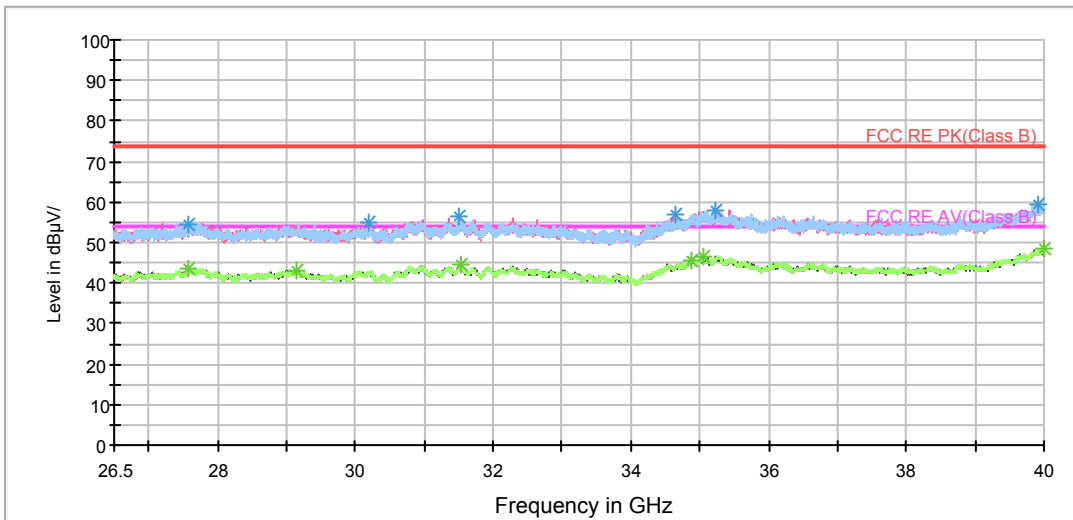


RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz



Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	40.0	100.0	H	0.0	48.2	-8.2	34.0	74
1328.500000	42.2	100.0	V	171.0	49.4	-7.2	31.8	74
1744.000000	46.3	100.0	V	214.0	52.0	-5.7	27.7	74
1991.500000	52.4	100.0	V	300.0	57.2	-4.8	21.6	74
3379.000000	42.0	100.0	H	132.0	42.8	-0.8	32.0	74
5030.500000	44.6	100.0	H	46.0	39.1	5.5	29.4	74

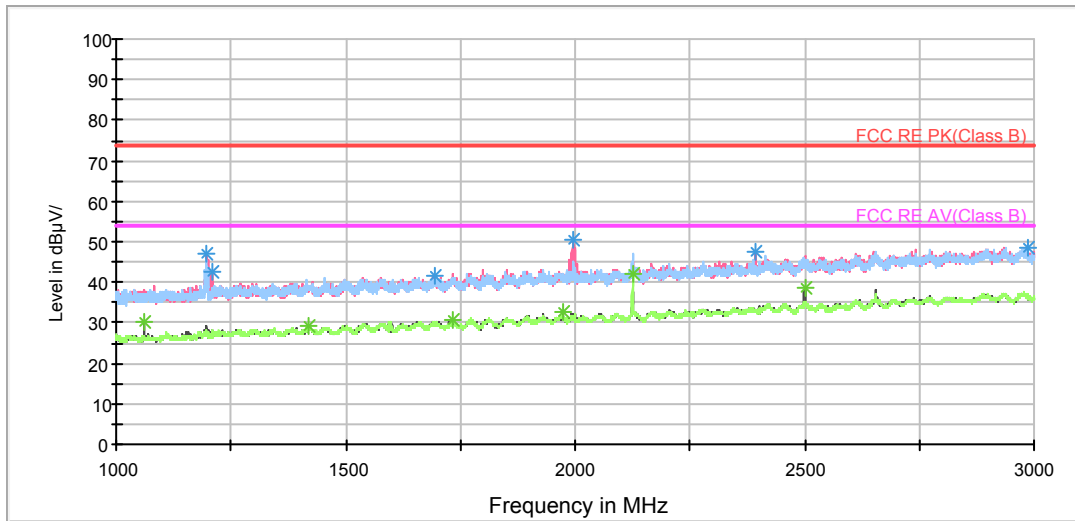
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	33.6	100.0	H	0.0	41.8	-8.2	20.4	54
1328.500000	26.5	100.0	V	171.0	33.7	-7.2	27.5	54
1744.000000	28.6	100.0	V	214.0	34.3	-5.7	25.4	54
1991.500000	29.3	100.0	V	300.0	34.1	-4.8	24.7	54
3379.000000	30.5	100.0	H	132.0	31.3	-0.8	23.5	54
5030.500000	33.6	100.0	H	46.0	28.1	5.5	20.4	54

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

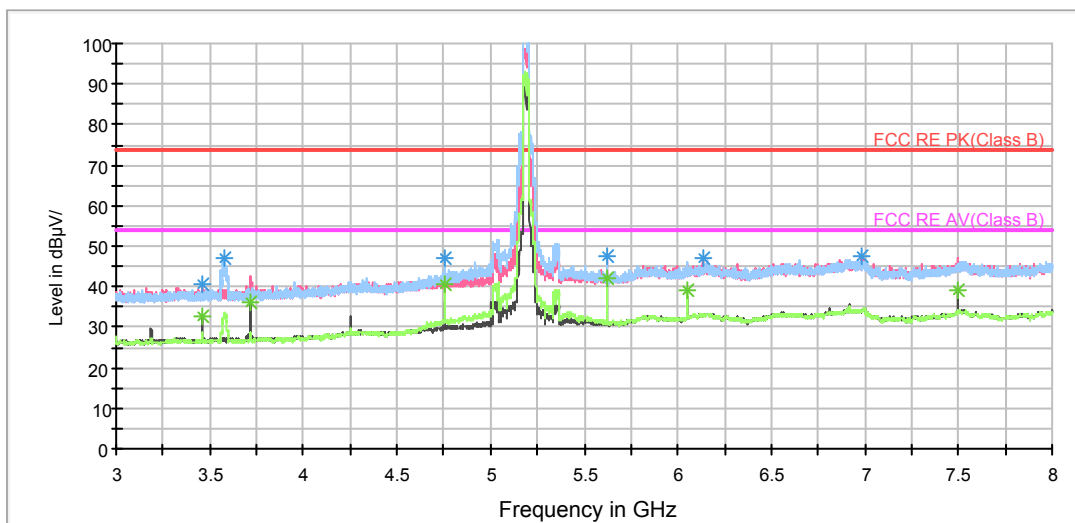
802.11n (HT40) CH38

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

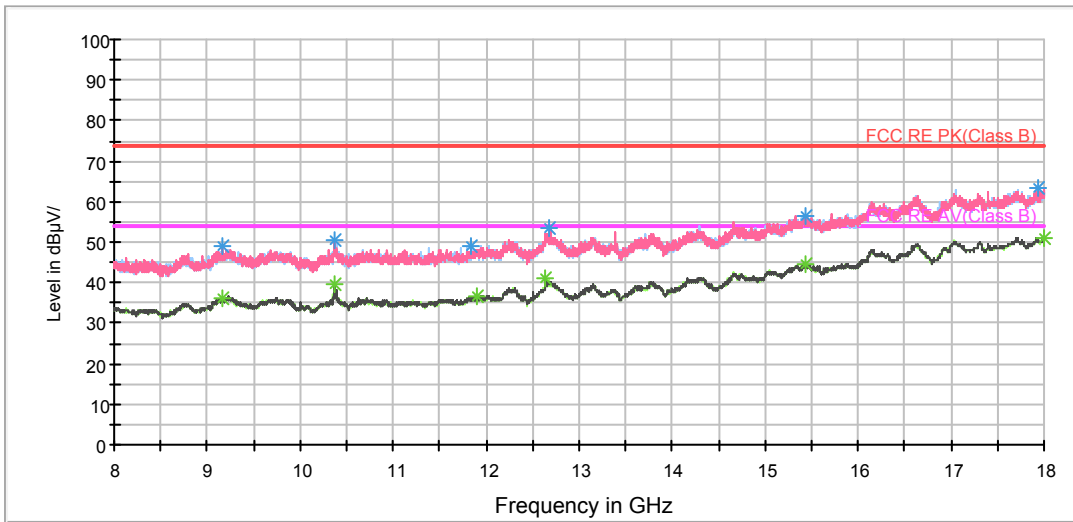
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

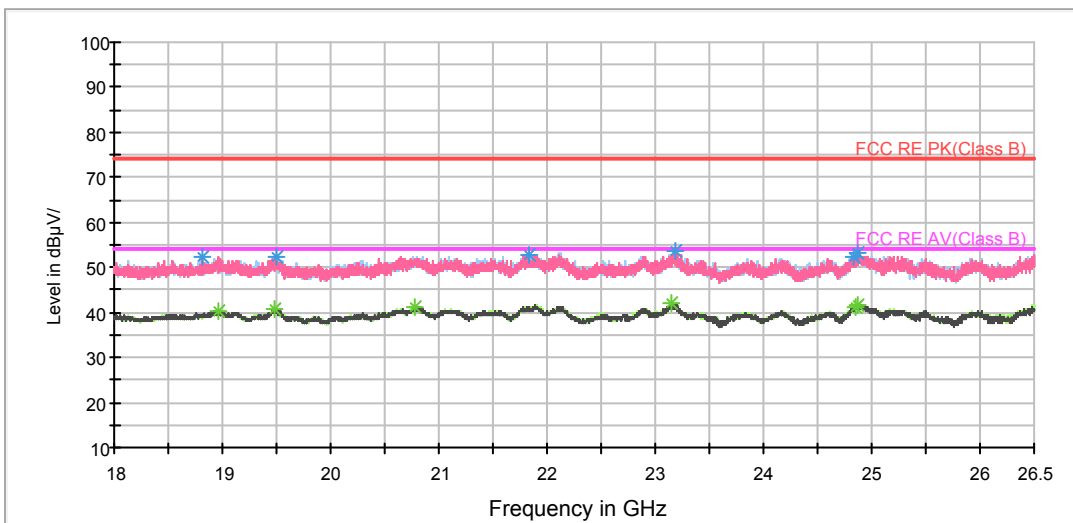
Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



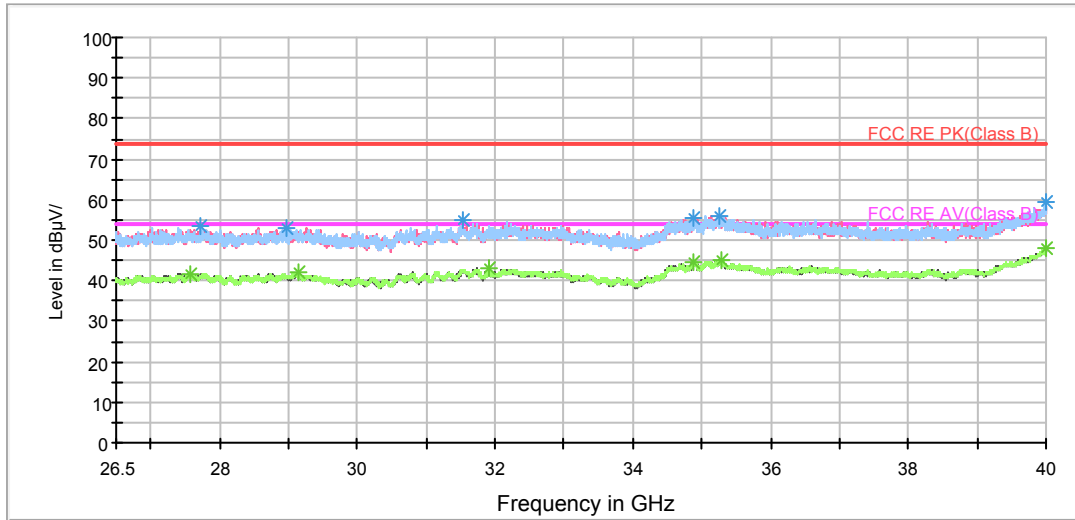
Radiates Emission from 8GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3460.000000	40.6	225.0	V	166.0	42.8	-2.2	33.4	74
3581.875000	47.2	125.0	H	275.0	49.5	-2.3	26.8	74
4757.500000	47.0	125.0	H	232.0	45.9	1.1	27.0	74
5622.500000	47.3	225.0	H	340.0	43.9	3.4	26.7	74
6131.875000	46.8	225.0	V	19.0	41.4	5.4	27.2	74
6980.625000	47.3	125.0	V	280.0	40.9	6.4	26.7	74

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

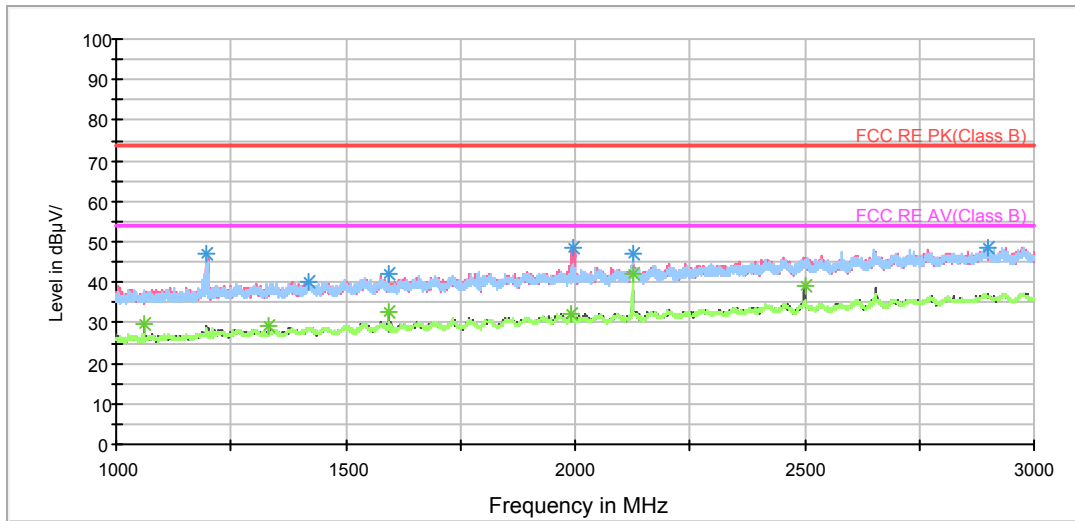
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3460.000000	32.7	225.0	V	166.0	34.9	-2.2	21.3	54
3718.750000	36.0	225.0	V	229.0	37.6	-1.6	18.0	54
4757.500000	40.8	125.0	H	232.0	39.7	1.1	13.2	54
5622.500000	42.2	125.0	H	232.0	38.8	3.4	11.8	54
6055.000000	38.9	225.0	H	257.0	34.0	4.9	15.1	54
7500.000000	39.2	225.0	V	275.0	32.3	6.9	14.8	54

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



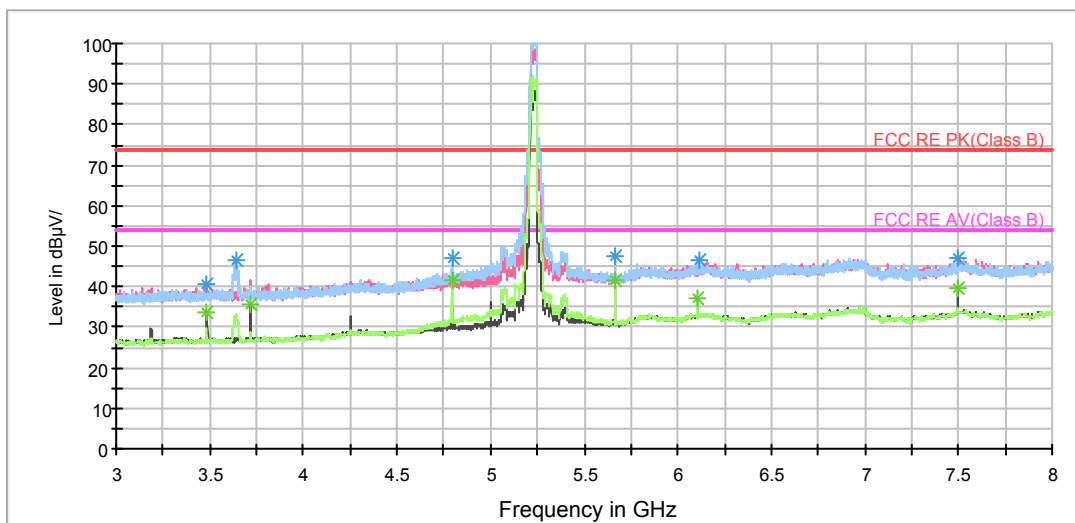
802.11n (HT40) CH46

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

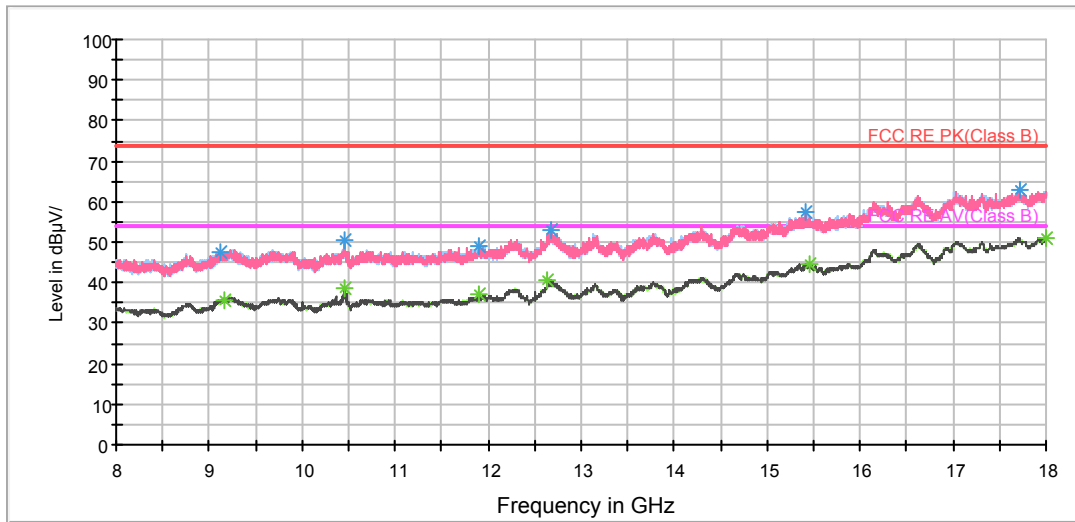
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

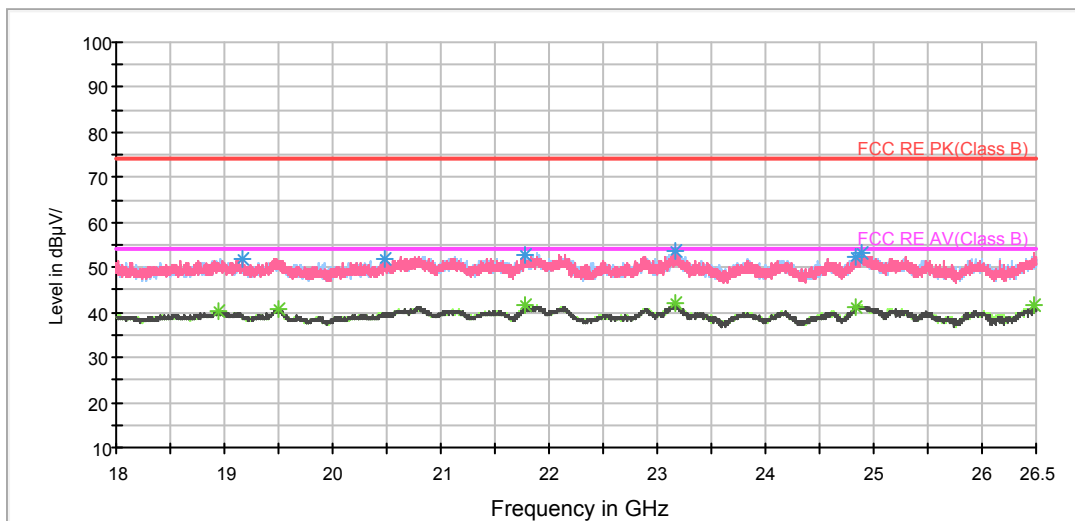
Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



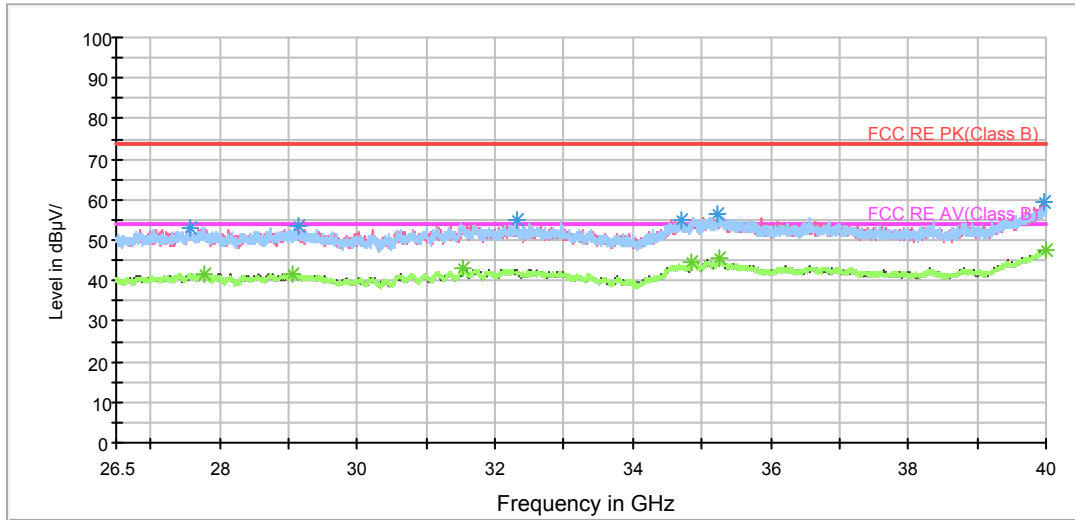
Radiates Emission from 8GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3486.250000	40.8	125.0	V	234.0	42.8	-2.0	33.2	74
3643.750000	46.8	225.0	H	213.0	48.6	-1.8	27.2	74
4794.375000	47.2	125.0	H	252.0	46.0	1.2	26.8	74
5665.625000	47.5	225.0	H	255.0	44.1	3.4	26.5	74
6115.625000	46.4	125.0	H	85.0	41.1	5.3	27.6	74
7500.000000	47.2	225.0	V	275.0	40.3	6.9	26.8	74

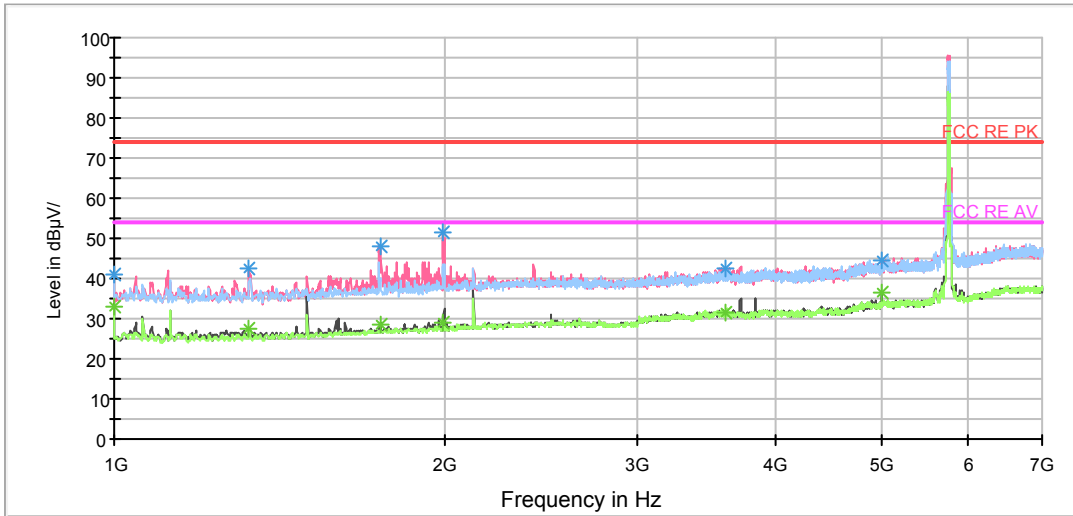
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3486.250000	33.9	225.0	V	208.0	35.9	-2.0	20.1	54
3718.750000	35.7	225.0	V	229.0	37.3	-1.6	18.3	54
4793.750000	41.7	125.0	H	252.0	40.5	1.2	12.3	54
5665.625000	41.7	225.0	H	255.0	38.3	3.4	12.3	54
6101.875000	37.3	125.0	H	272.0	32.2	5.1	16.7	54
7500.000000	39.4	225.0	V	275.0	32.5	6.9	14.6	54

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

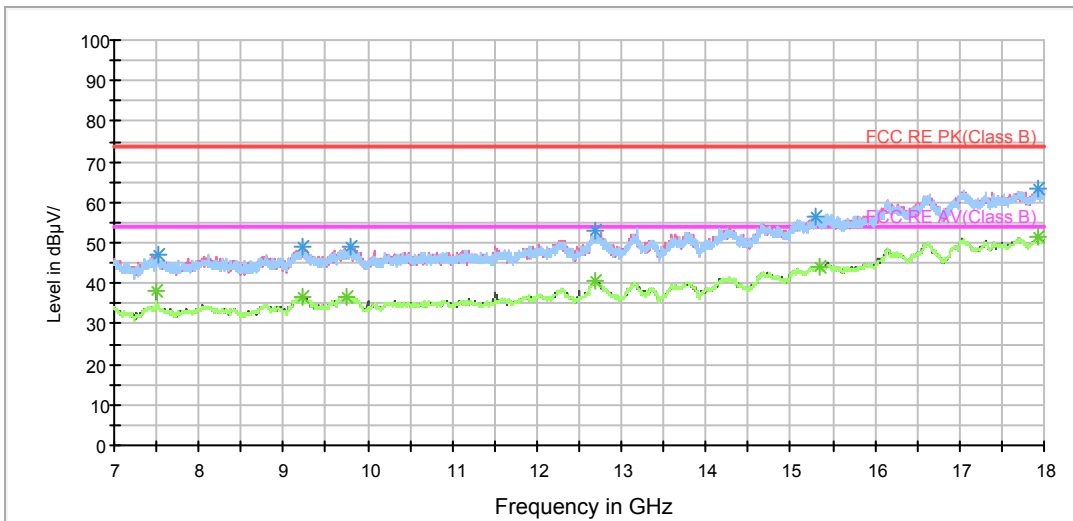
802.11n (HT40) CH151

RE 1G-7GHz PK+AV Class B



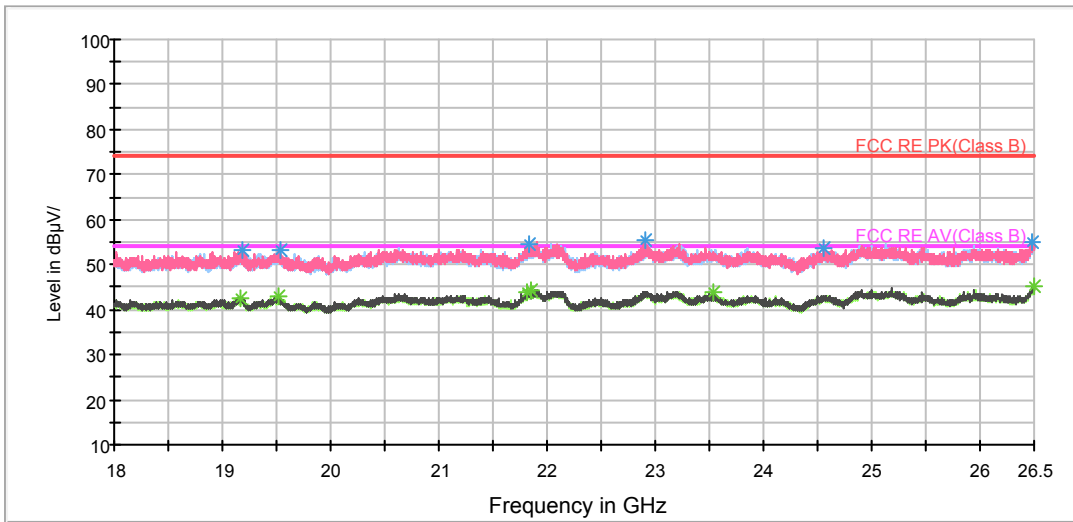
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

RE 3-18GHz PK+AV



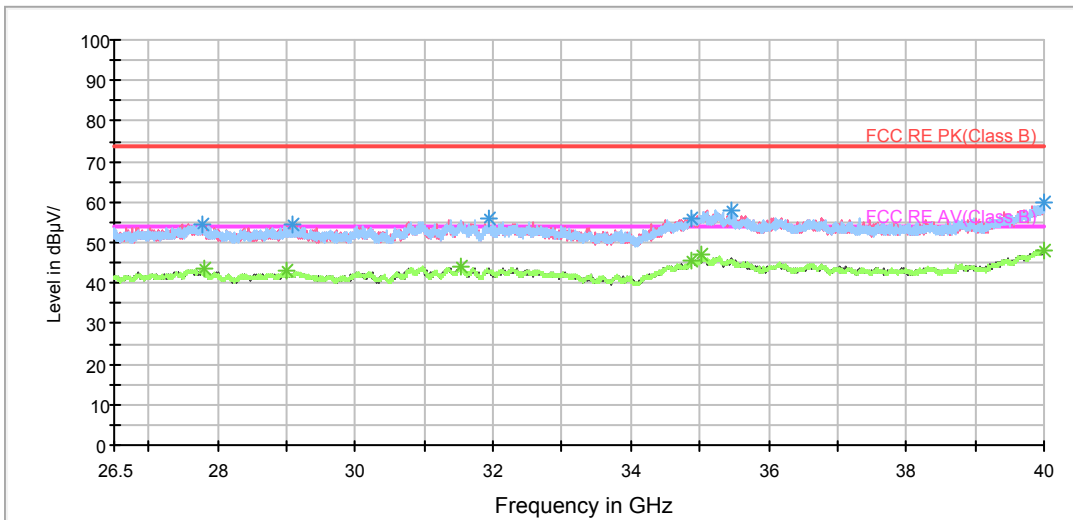
Radiates Emission from 7GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz



Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	40.9	100.0	H	344.0	49.1	-8.2	33.1	74
1327.000000	42.3	100.0	V	172.0	49.5	-7.2	31.7	74
1745.500000	48.0	100.0	V	183.0	53.7	-5.7	26.0	74
1994.500000	51.4	100.0	V	302.0	56.2	-4.8	22.6	74
3607.000000	42.6	100.0	V	354.0	42.4	0.2	31.4	74
5000.500000	44.6	100.0	V	0.0	39.2	5.4	29.4	74

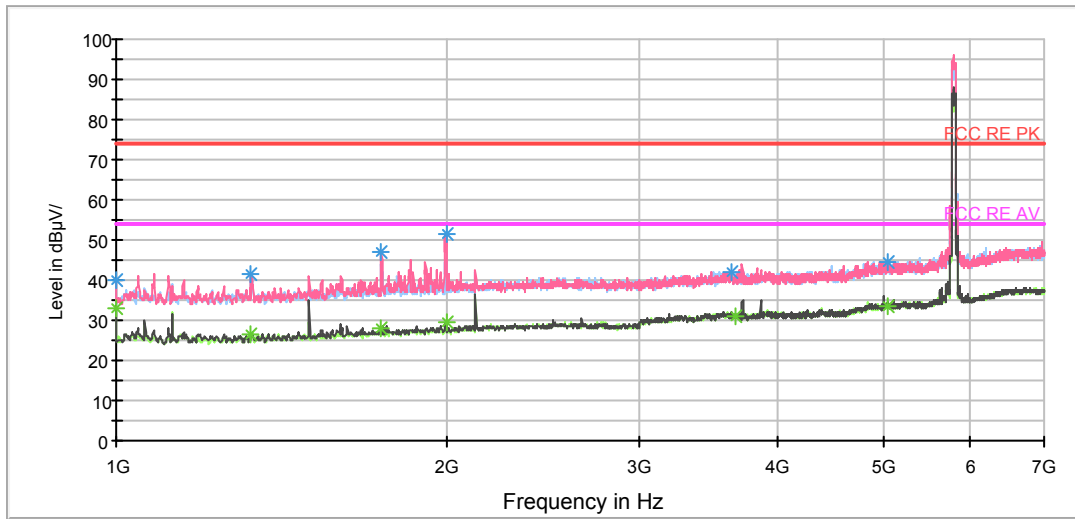
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	33.1	100.0	H	344.0	41.3	-8.2	20.9	54
1327.000000	27.7	100.0	V	172.0	34.9	-7.2	26.3	54
1745.500000	28.3	100.0	V	183.0	34.0	-5.7	25.7	54
1994.500000	29.1	100.0	V	302.0	33.9	-4.8	24.9	54
3607.000000	31.5	100.0	V	354.0	31.3	0.2	22.5	54
5000.500000	36.3	100.0	V	0.0	30.9	5.4	17.7	54

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

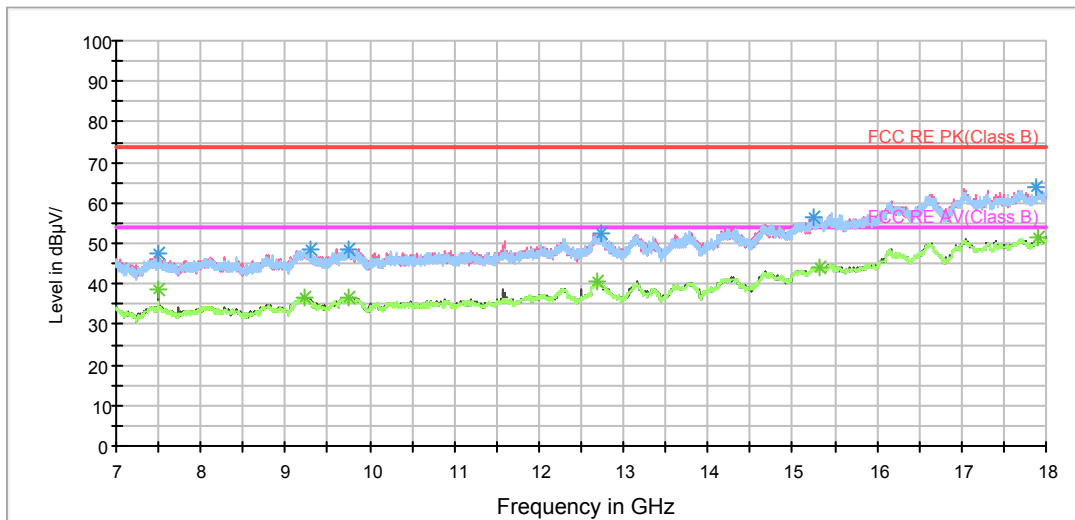
802.11n (HT40) CH159

RE 1G-7GHz PK+AV Class B



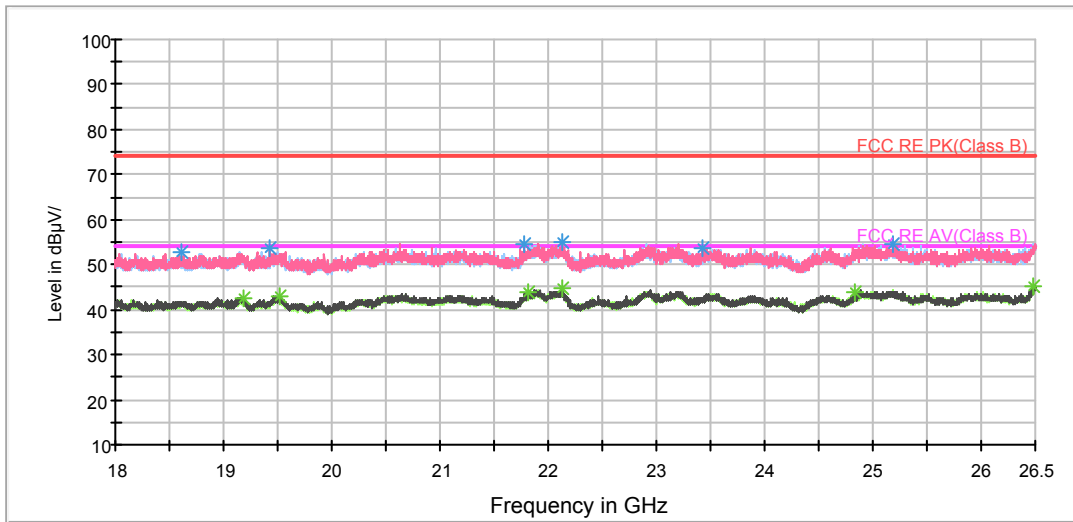
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

RE 3-18GHz PK+AV



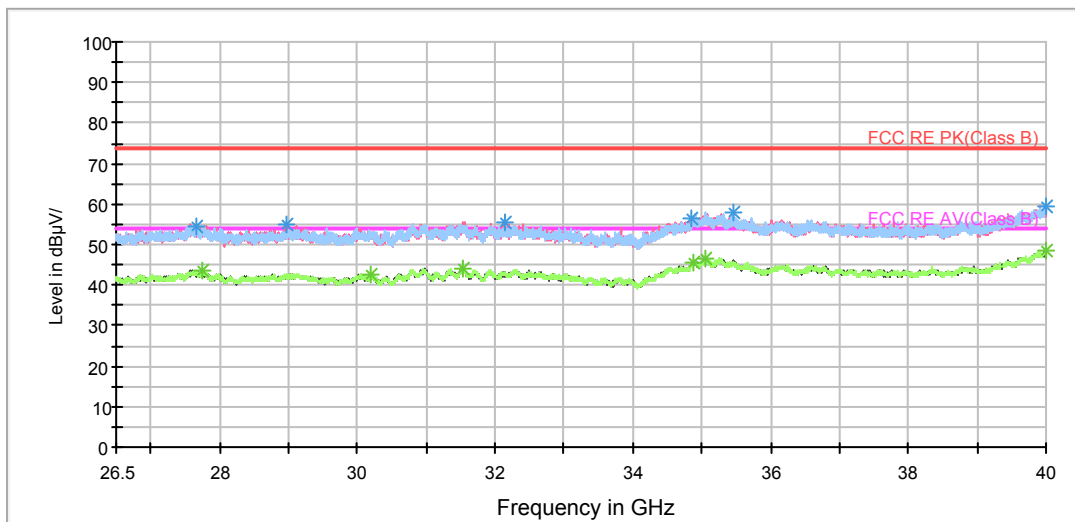
Radiates Emission from 7GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz



Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	40.1	100.0	V	6.0	48.3	-8.2	33.9	74
1327.000000	41.6	100.0	V	167.0	48.8	-7.2	32.4	74
1744.000000	47.0	100.0	V	239.0	52.7	-5.7	27.0	74
1999.000000	51.7	100.0	V	286.0	56.5	-4.8	22.3	74
3635.500000	41.9	100.0	H	225.0	41.6	0.3	32.1	74
5041.000000	44.5	100.0	V	39.0	39.0	5.5	29.5	74

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

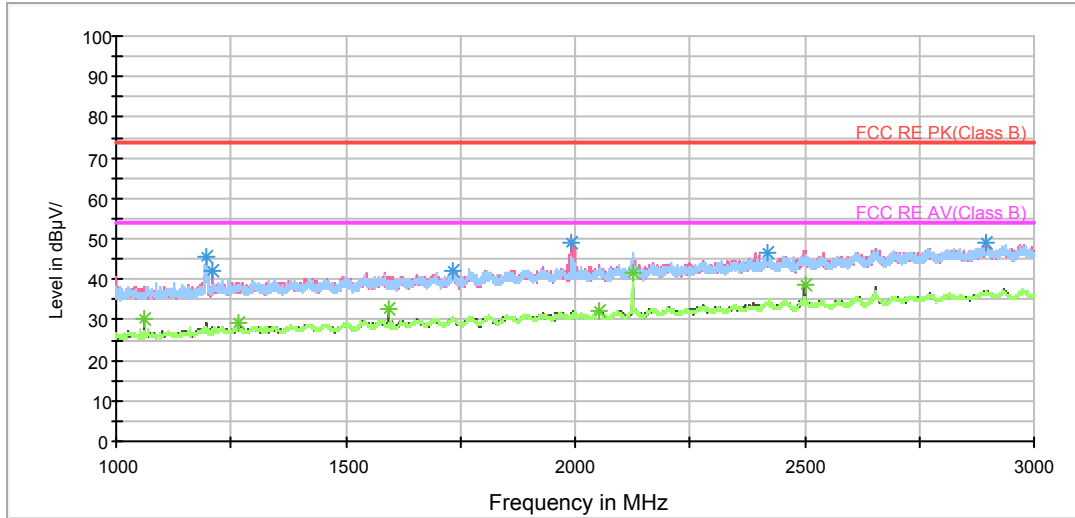
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	33.1	100.0	V	6.0	41.3	-8.2	20.9	54
1327.000000	26.3	100.0	V	167.0	33.5	-7.2	27.7	54
1744.000000	27.9	100.0	V	239.0	33.6	-5.7	26.1	54
1999.000000	29.7	100.0	V	286.0	34.5	-4.8	24.3	54
3661.000000	31.2	100.0	H	300.0	30.7	0.5	22.8	54
5041.000000	33.4	100.0	V	39.0	27.9	5.5	20.6	54

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



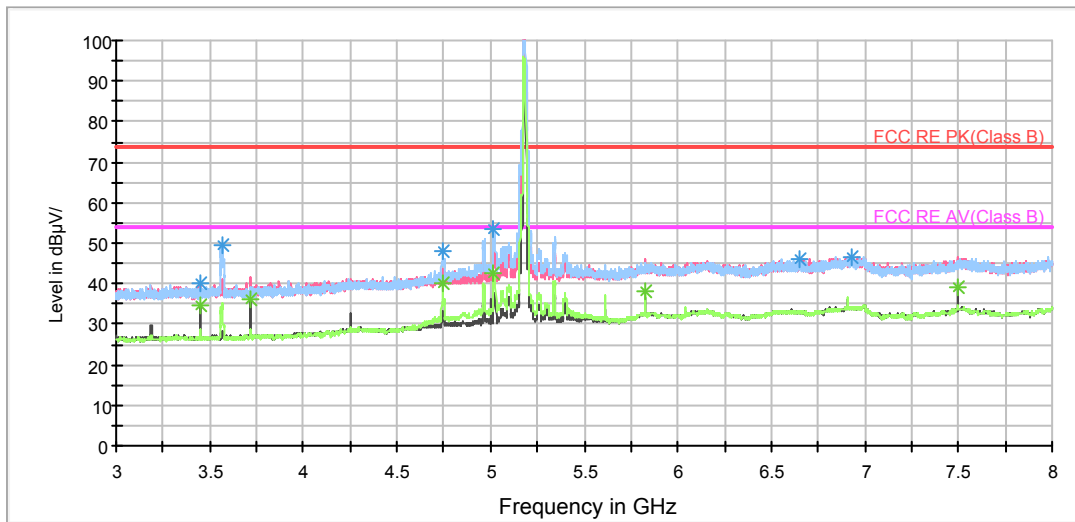
802.11ac (HT20) CH36

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

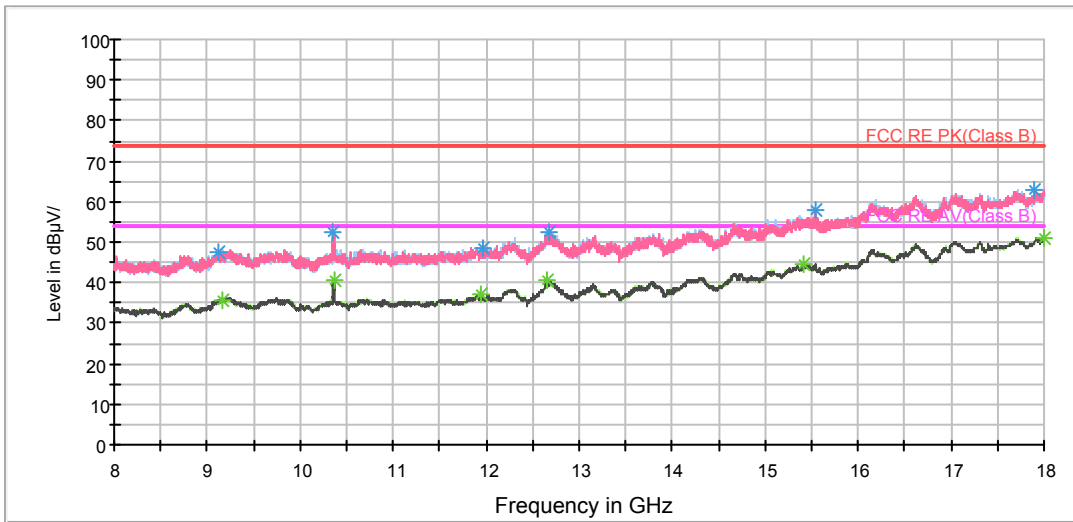
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

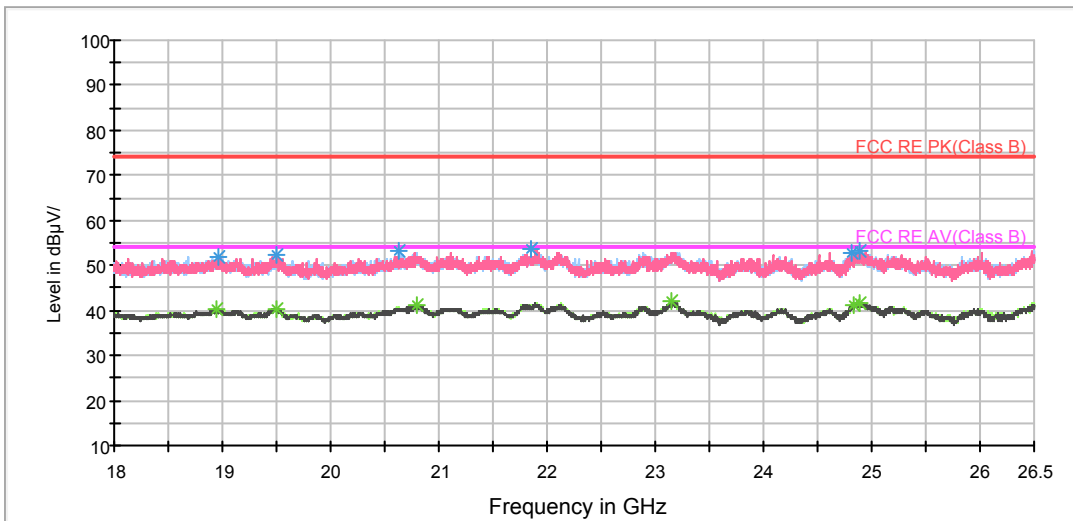
Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



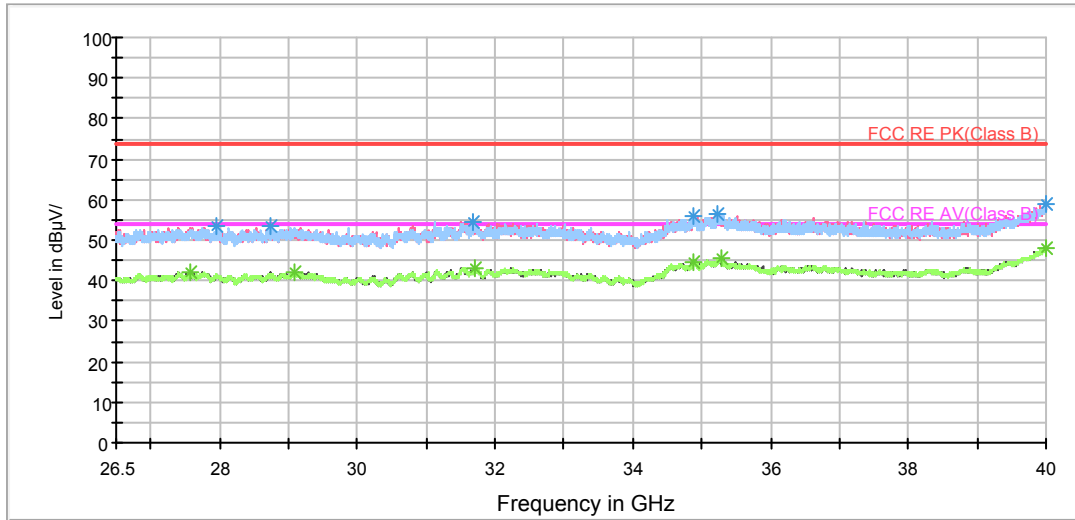
Radiates Emission from 8GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3452.500000	40.2	225.0	V	211.0	42.4	-2.2	33.8	74
3567.500000	49.6	225.0	H	213.0	51.8	-2.2	24.4	74
4747.500000	47.8	125.0	H	297.0	46.9	0.9	26.2	74
5017.500000	53.4	125.0	H	191.0	51.8	1.6	20.6	74
6655.625000	46.1	225.0	V	2.0	40.6	5.5	27.9	74
6926.875000	46.8	225.0	V	23.0	40.6	6.2	27.2	74

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

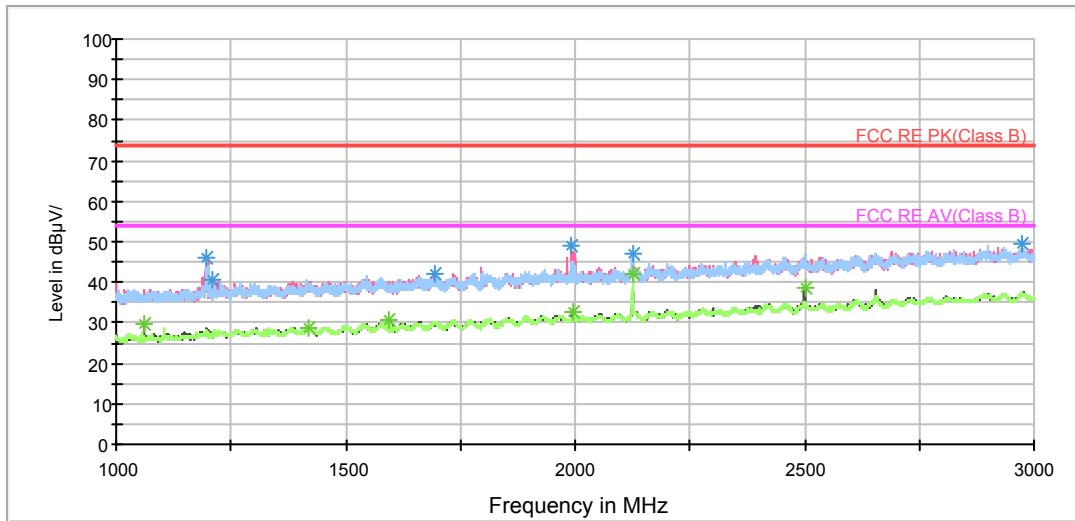
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3453.125000	34.4	225.0	V	211.0	36.6	-2.2	19.6	54
3718.750000	35.9	225.0	V	211.0	37.5	-1.6	18.1	54
4748.125000	40.0	125.0	H	297.0	39.1	0.9	14.0	54
5018.125000	42.4	125.0	H	149.0	40.8	1.6	11.6	54
5827.500000	38.2	125.0	H	320.0	33.7	4.5	15.8	54
7500.000000	39.1	225.0	V	275.0	32.2	6.9	14.9	54

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



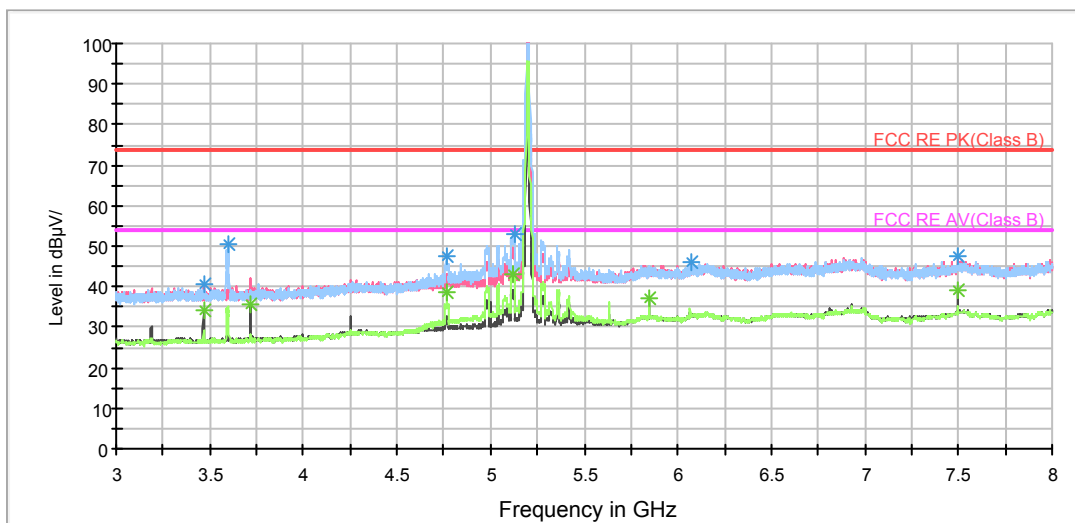
802.11ac (HT20) CH40

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

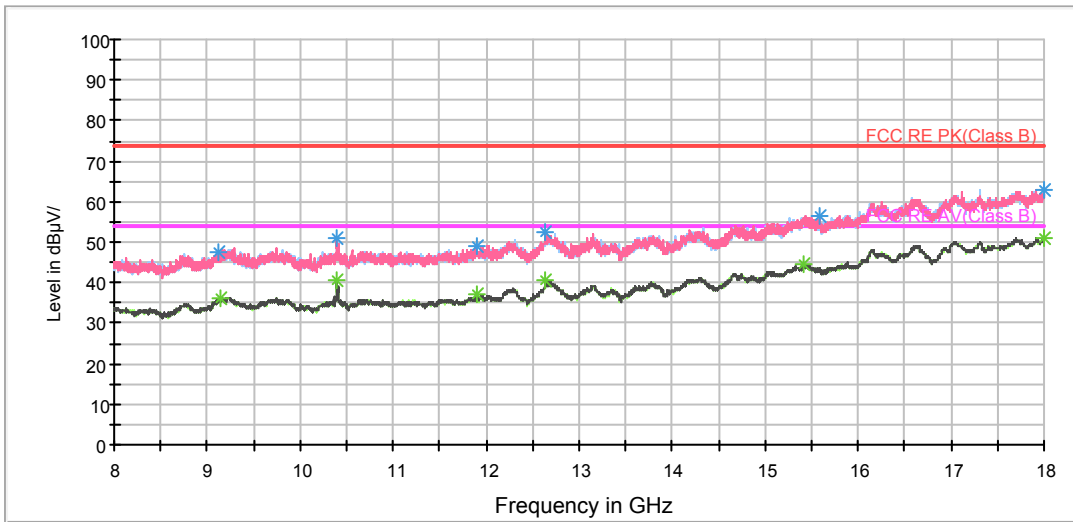
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

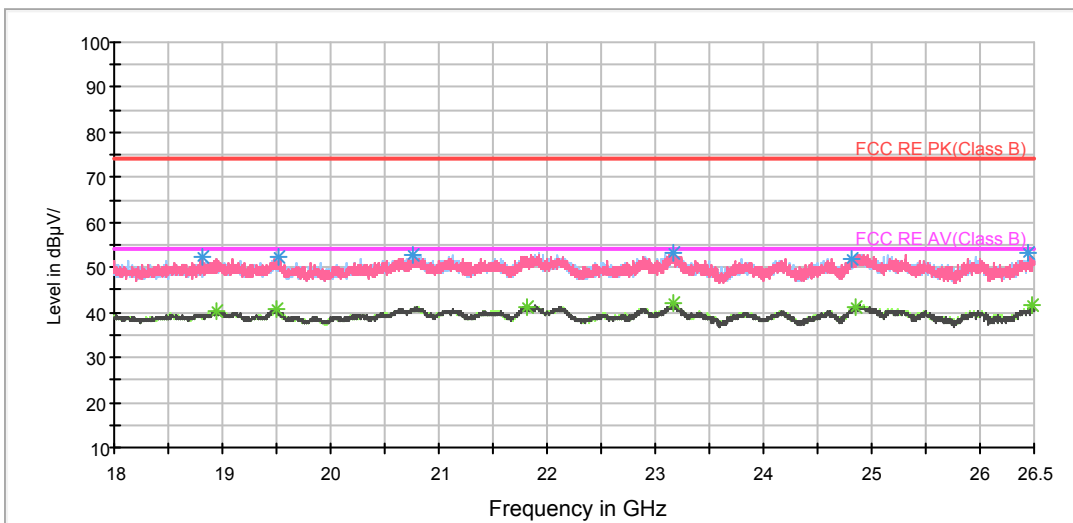
Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



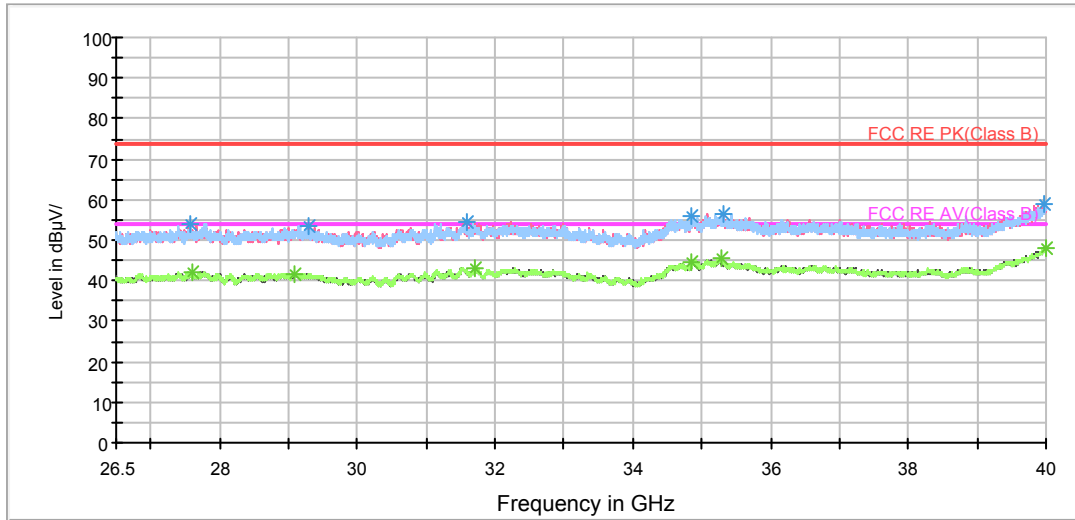
Radiates Emission from 8GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3466.250000	40.7	225.0	V	147.0	42.8	-2.1	33.3	74
3598.750000	50.4	225.0	H	193.0	52.6	-2.2	23.6	74
4766.250000	47.8	125.0	H	297.0	46.7	1.1	26.2	74
5127.500000	53.1	125.0	H	165.0	51.2	1.9	20.9	74
6074.375000	45.9	225.0	V	232.0	40.8	5.1	28.1	74
7500.000000	47.4	225.0	V	274.0	40.5	6.9	26.6	74

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

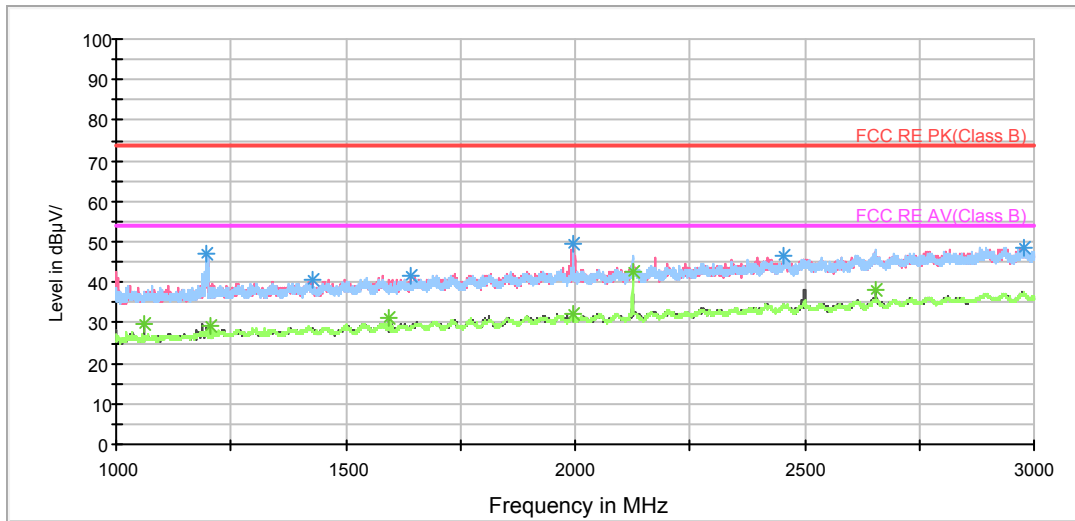
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3466.250000	34.0	225.0	V	147.0	36.1	-2.1	20.0	54
3718.750000	35.8	225.0	V	210.0	37.4	-1.6	18.2	54
4766.875000	38.7	125.0	H	297.0	37.6	1.1	15.3	54
5121.250000	43.0	125.0	H	187.0	41.2	1.8	11.0	54
5850.000000	37.4	225.0	H	256.0	32.7	4.7	16.6	54
7500.000000	39.0	225.0	V	274.0	32.1	6.9	15.0	54

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



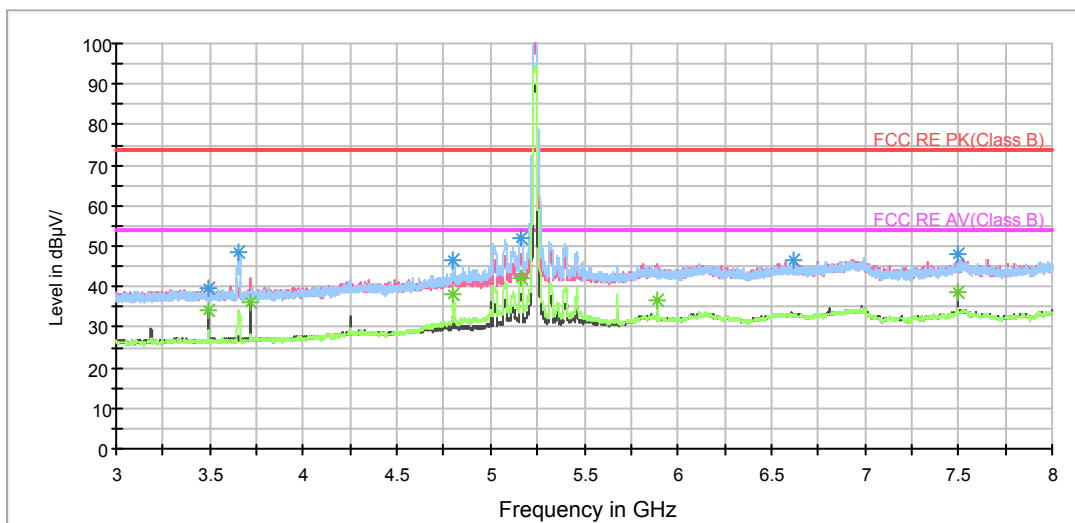
802.11ac (HT20) CH48

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

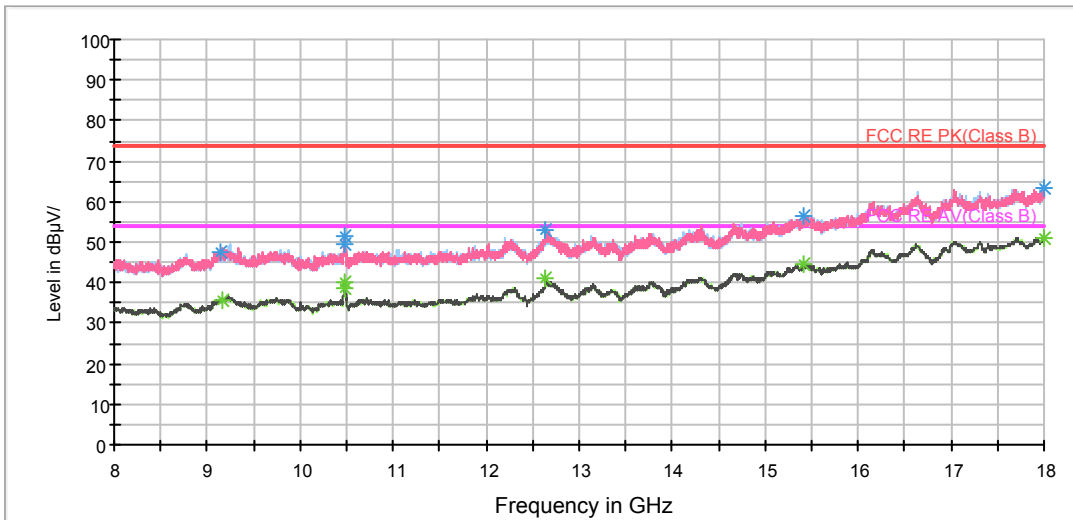
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

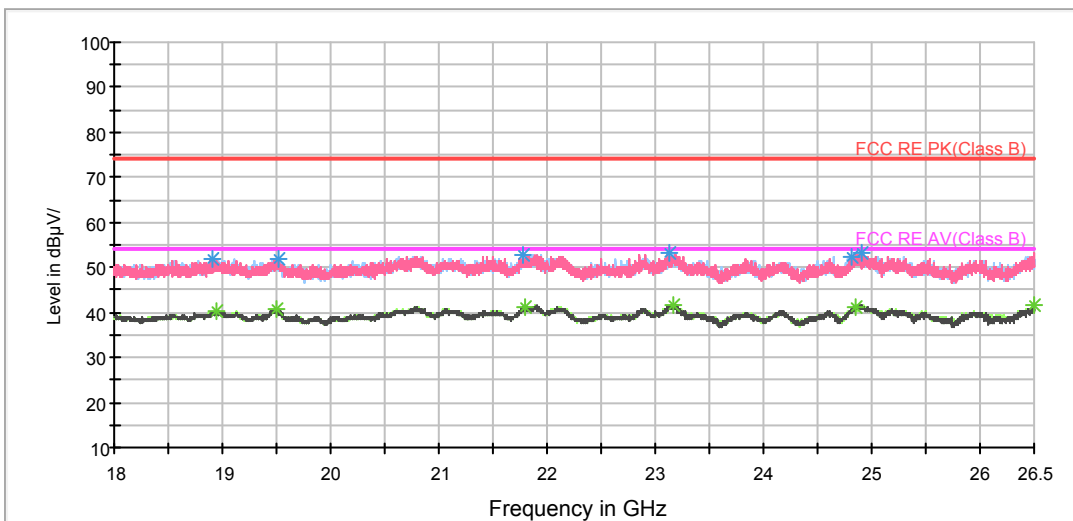
Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



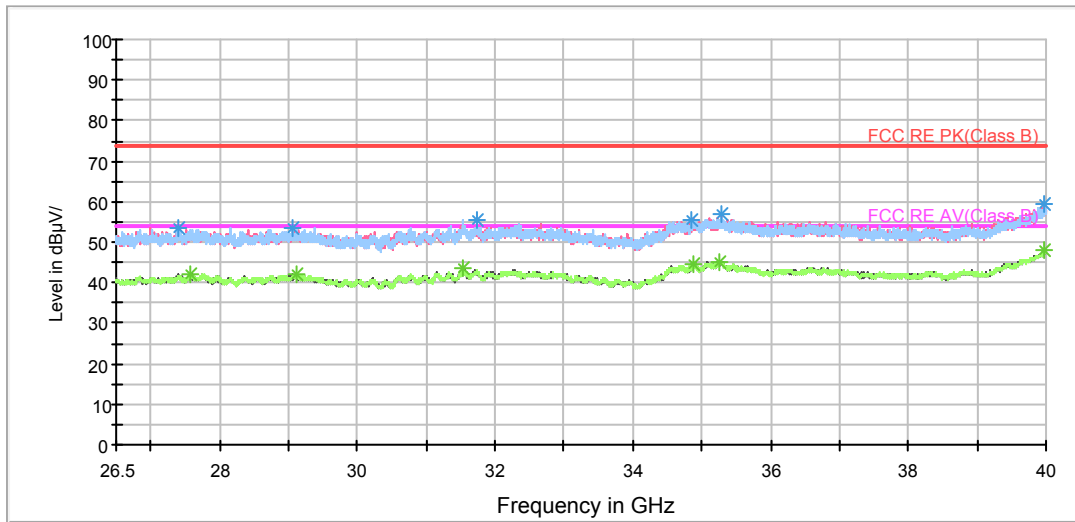
Radiates Emission from 8GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3493.125000	39.8	225.0	V	211.0	41.9	-2.1	34.2	74
3656.875000	48.3	225.0	H	192.0	50.2	-1.9	25.7	74
4803.125000	46.4	125.0	H	252.0	45.1	1.3	27.6	74
5163.125000	52.0	125.0	H	167.0	50.0	2.0	22.0	74
6621.875000	46.5	225.0	V	0.0	41.0	5.5	27.5	74
7500.625000	48.3	225.0	V	274.0	41.4	6.9	25.7	74

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

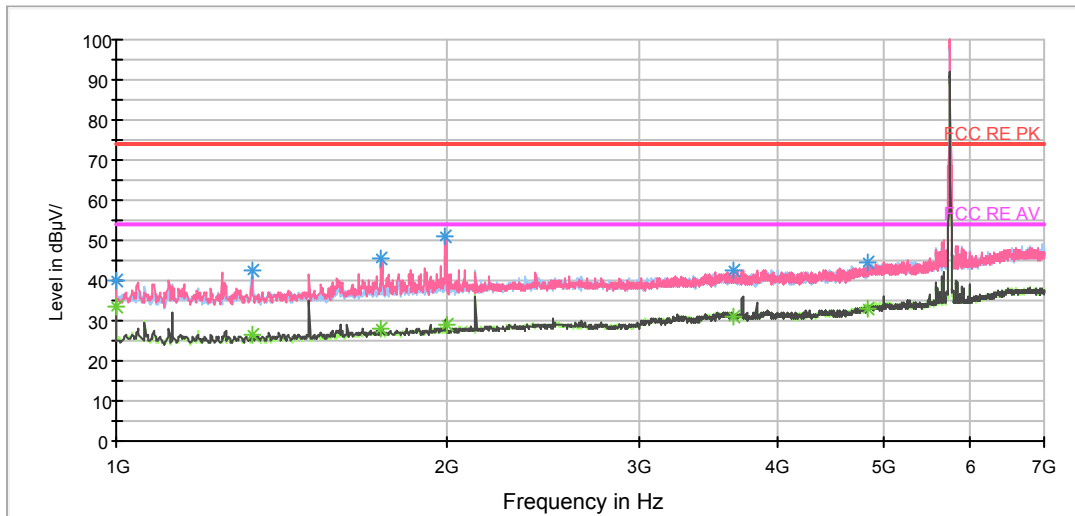
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3493.125000	34.2	225.0	V	211.0	36.3	-2.1	19.8	54
3718.750000	35.9	225.0	V	211.0	37.5	-1.6	18.1	54
4803.125000	38.1	125.0	H	252.0	36.8	1.3	15.9	54
5163.125000	42.2	125.0	H	167.0	40.2	2.0	11.8	54
5895.000000	36.5	125.0	H	274.0	31.6	4.9	17.5	54
7500.000000	38.6	225.0	V	274.0	31.7	6.9	15.4	54

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



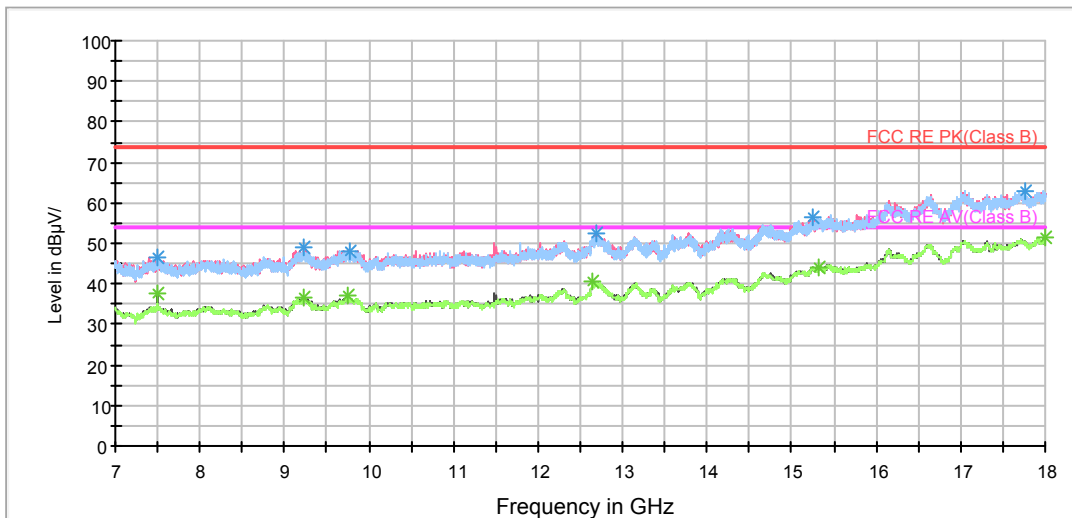
802.11ac (HT20) CH149

RE 1G-7GHz PK+AV Class B



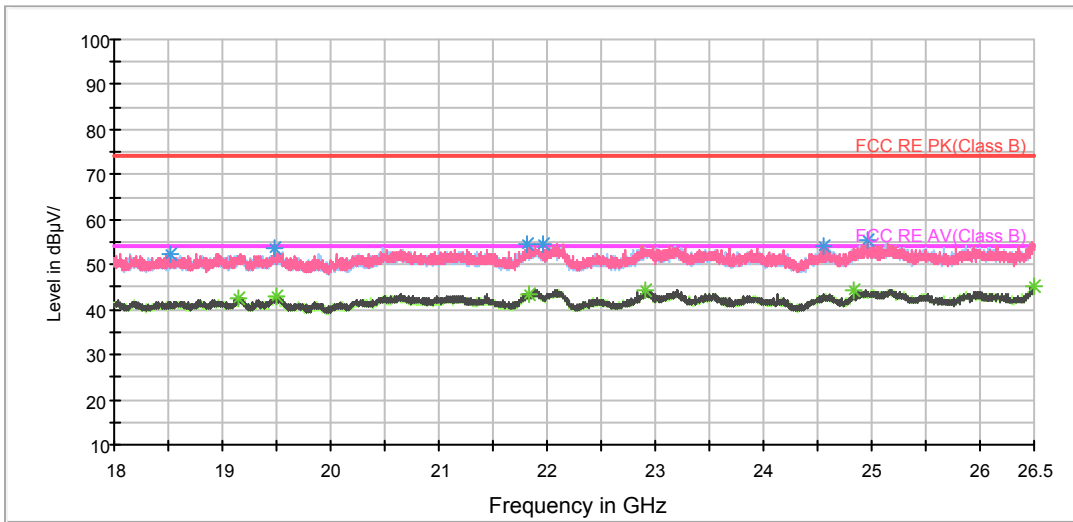
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

RE 3-18GHz PK+AV



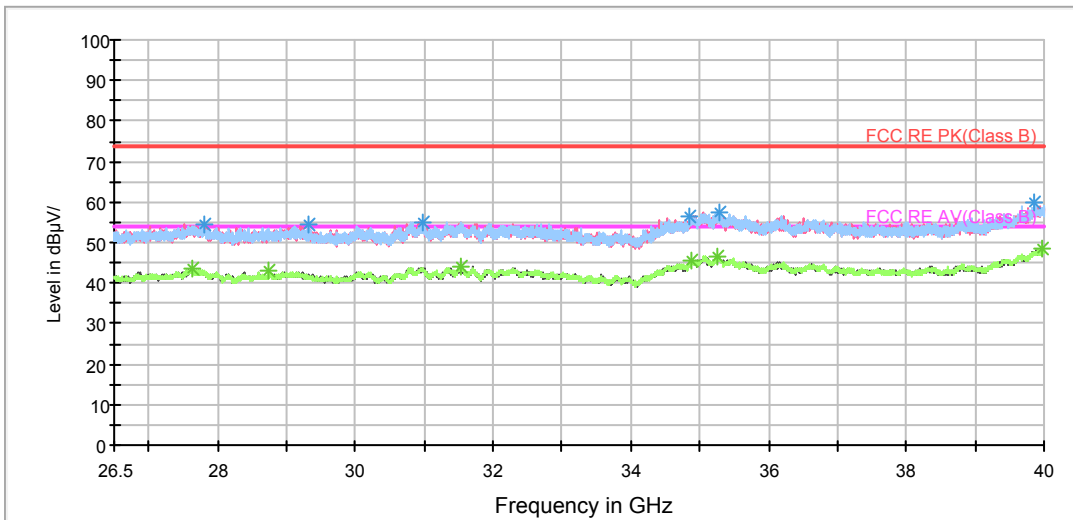
Radiates Emission from 7GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz



Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	39.8	100.0	V	4.0	48.0	-8.2	34.2	74
1328.500000	42.5	100.0	H	238.0	49.7	-7.2	31.5	74
1744.000000	45.6	100.0	V	187.0	51.3	-5.7	28.4	74
1993.000000	51.2	100.0	V	285.0	56.0	-4.8	22.8	74
3650.500000	42.5	100.0	V	13.0	42.1	0.4	31.5	74
4844.500000	44.7	100.0	V	0.0	39.8	4.9	29.3	74

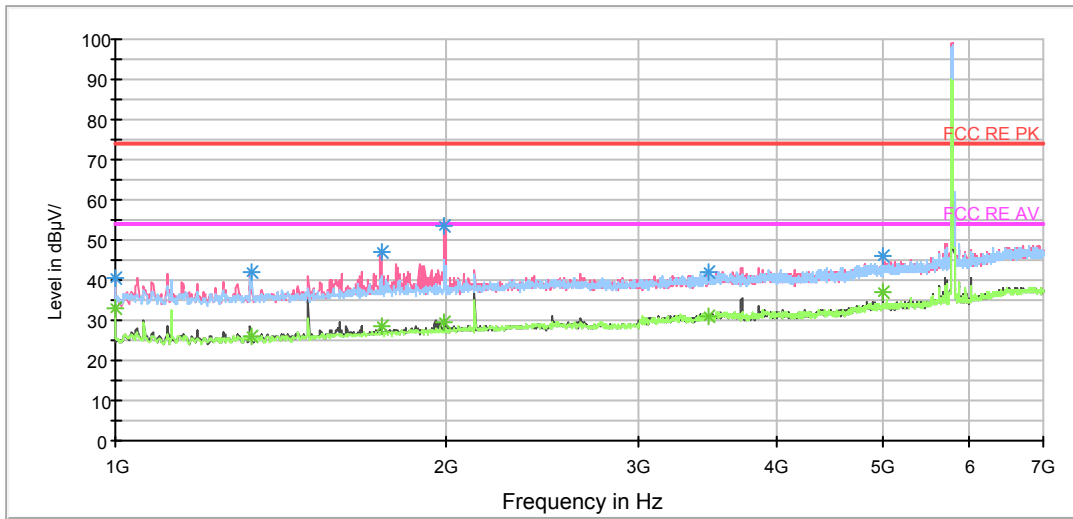
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	33.3	100.0	H	359.0	41.5	-8.2	20.7	54
1328.500000	26.6	100.0	H	238.0	33.8	-7.2	27.4	54
1744.000000	27.8	100.0	V	187.0	33.5	-5.7	26.2	54
1999.000000	29.2	100.0	V	262.0	34.0	-4.8	24.8	54
3650.500000	31.2	100.0	V	13.0	30.8	0.4	22.8	54
4844.500000	32.9	100.0	V	0.0	28.0	4.9	21.1	54

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

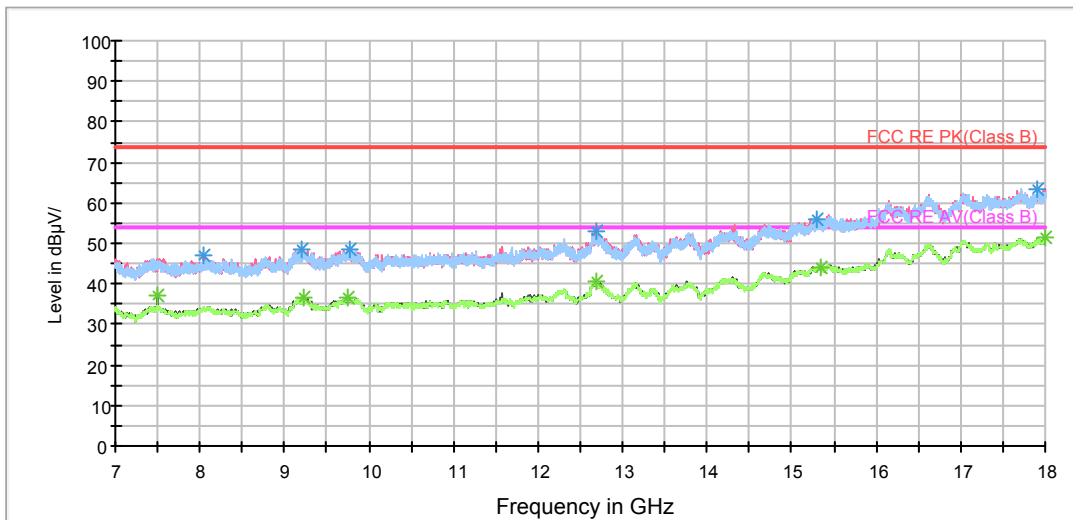
802.11ac (HT20) CH157

RE 1G-7GHz PK+AV Class B



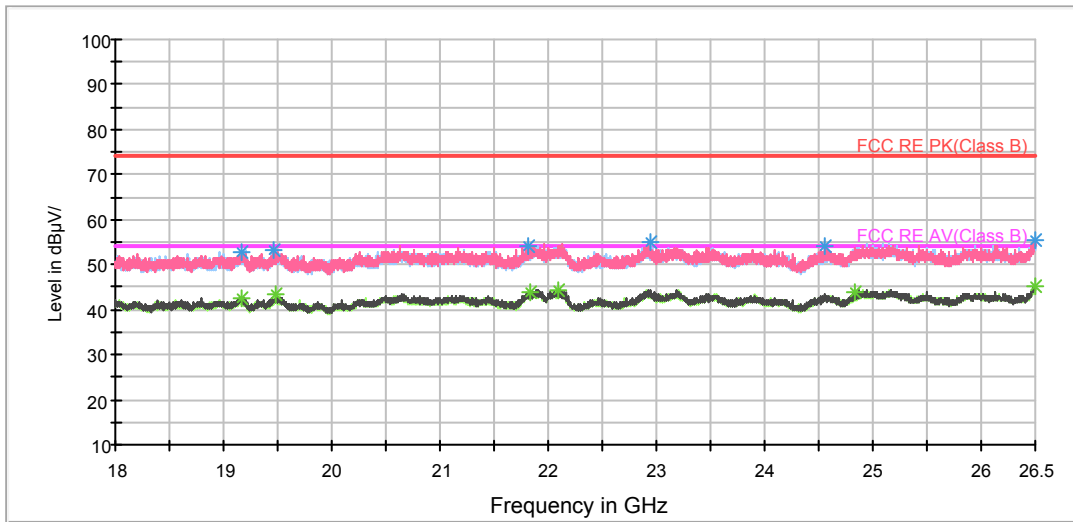
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

RE 3-18GHz PK+AV



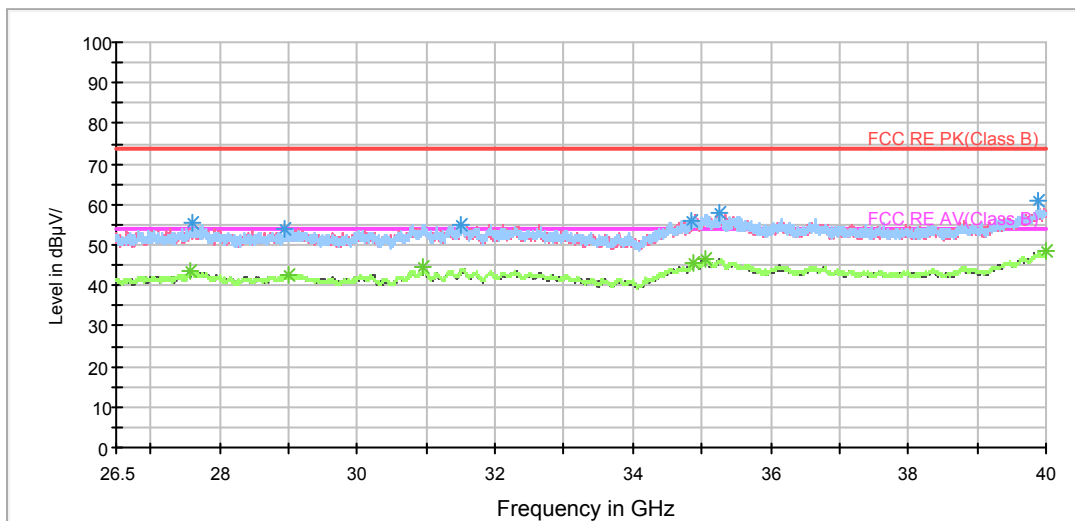
Radiates Emission from 7GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz



Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	40.4	100.0	H	343.0	48.6	-8.2	33.6	74
1330.000000	42.1	100.0	H	219.0	49.3	-7.2	31.9	74
1750.000000	46.8	100.0	V	292.0	52.5	-5.7	27.2	74
1993.000000	53.3	100.0	V	303.0	58.1	-4.8	20.7	74
3470.500000	42.0	100.0	V	356.0	42.4	-0.4	32.0	74
5000.500000	46.0	100.0	V	185.0	40.6	5.4	28.0	74

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

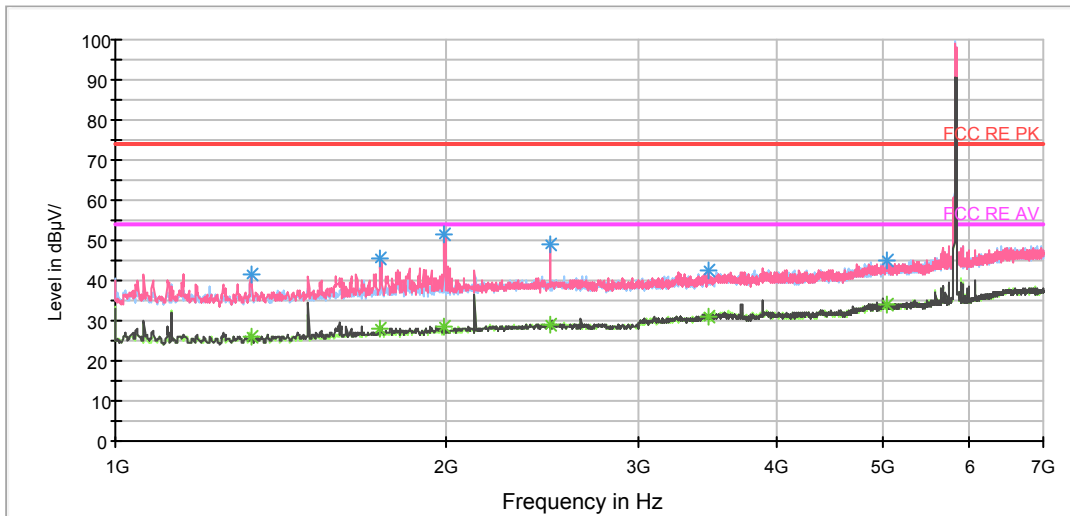
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	33.2	100.0	H	343.0	41.4	-8.2	20.8	54
1330.000000	25.9	100.0	V	174.0	33.1	-7.2	28.1	54
1750.000000	28.3	100.0	V	292.0	34.0	-5.7	25.7	54
1993.000000	29.3	100.0	V	303.0	34.1	-4.8	24.7	54
3470.500000	31.1	100.0	V	356.0	31.5	-0.4	22.9	54
5000.500000	37.0	100.0	V	185.0	31.6	5.4	17.0	54

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



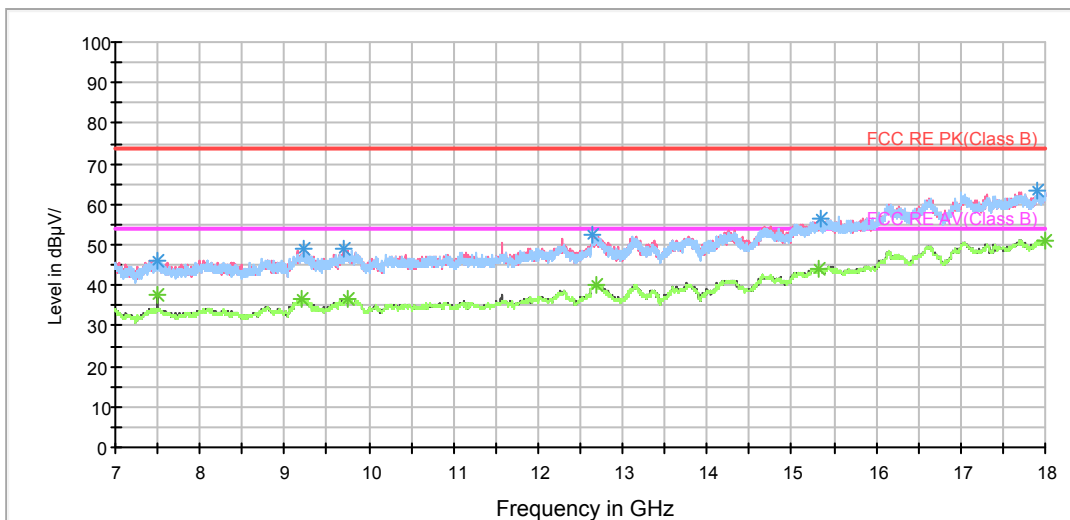
802.11ac (HT20) CH165

RE 1G-7GHz PK+AV Class B



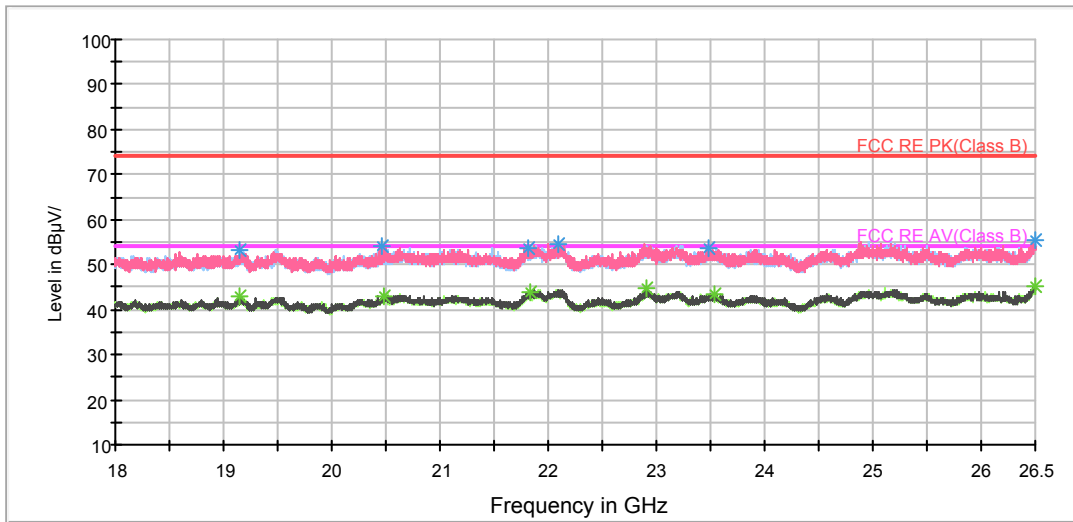
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

RE 3-18GHz PK+AV



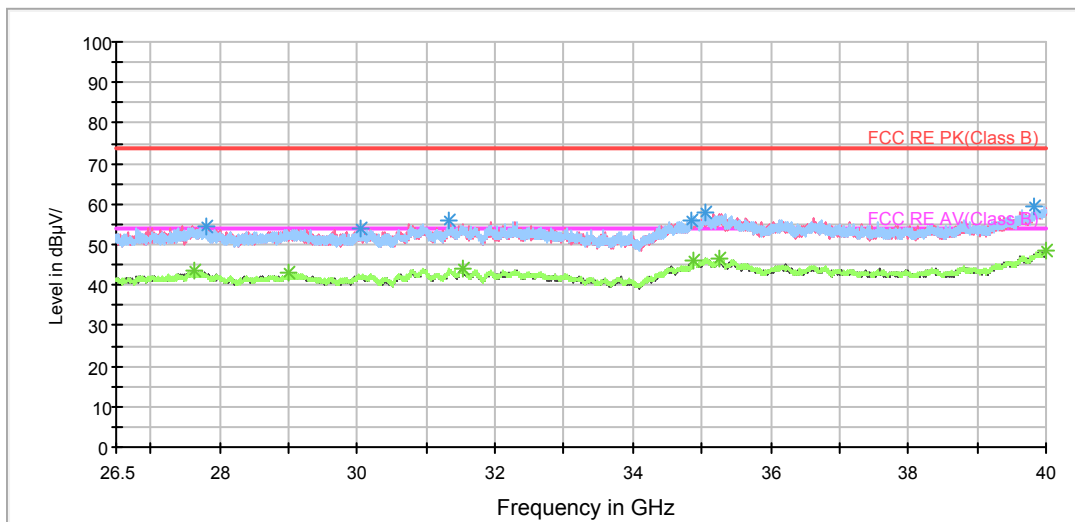
Radiates Emission from 7GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz



Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1328.500000	41.6	100.0	V	157.0	48.8	-7.2	32.4	74
1744.000000	45.4	100.0	V	232.0	51.1	-5.7	28.6	74
1991.500000	51.5	100.0	V	287.0	56.3	-4.8	22.5	74
2492.500000	49.2	100.0	V	266.0	52.1	-2.9	24.8	74
3472.000000	42.3	100.0	V	103.0	42.7	-0.4	31.7	74
5048.500000	44.9	100.0	V	50.0	39.4	5.5	29.1	74

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

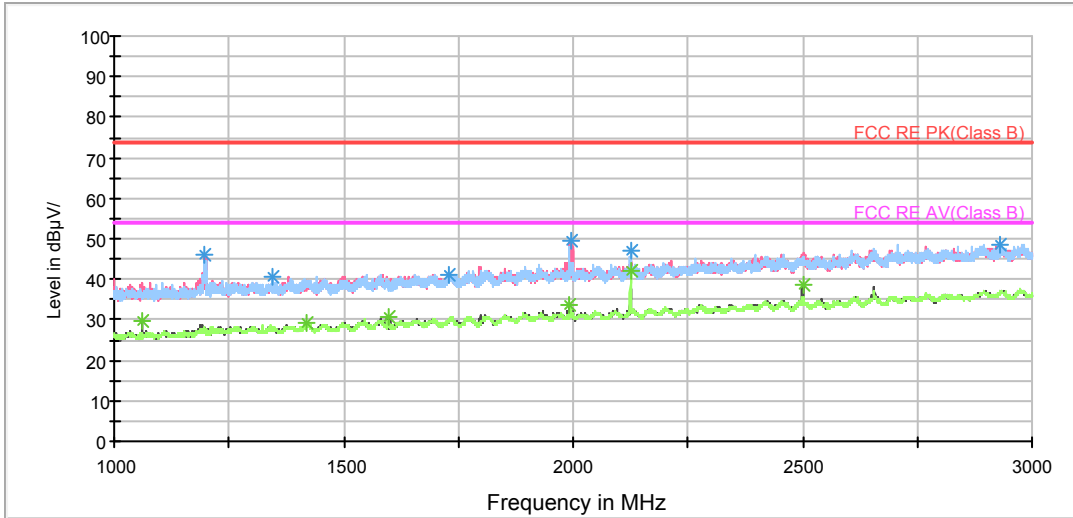
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1330.000000	26.1	100.0	H	255.0	33.3	-7.2	27.9	54
1744.000000	27.9	100.0	V	232.0	33.6	-5.7	26.1	54
1991.500000	28.4	100.0	V	287.0	33.2	-4.8	25.6	54
2492.500000	28.9	100.0	V	266.0	31.8	-2.9	25.1	54
3472.000000	31.0	100.0	V	103.0	31.4	-0.4	23.0	54
5048.500000	34.0	100.0	V	50.0	28.5	5.5	20.0	54

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



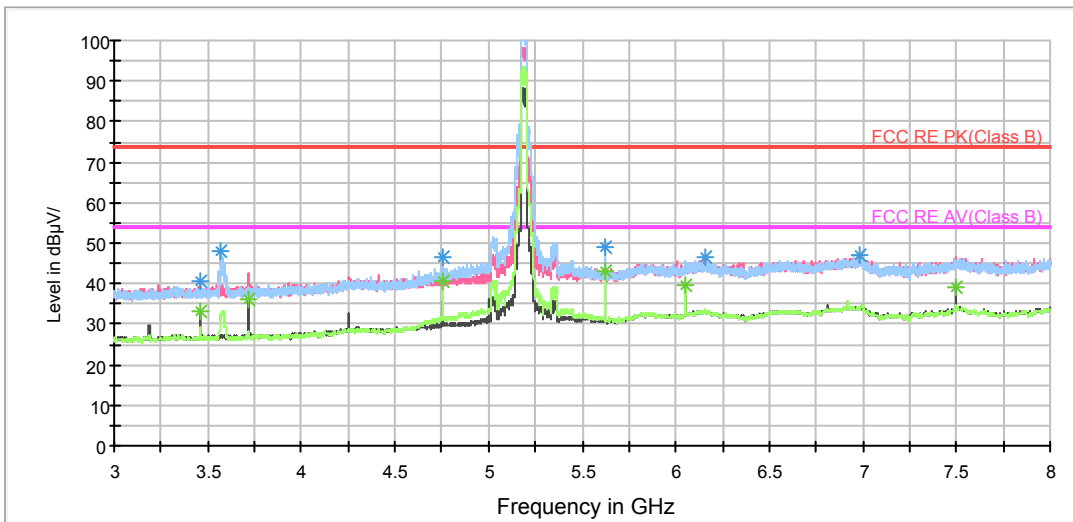
802.11ac (HT40) CH38

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

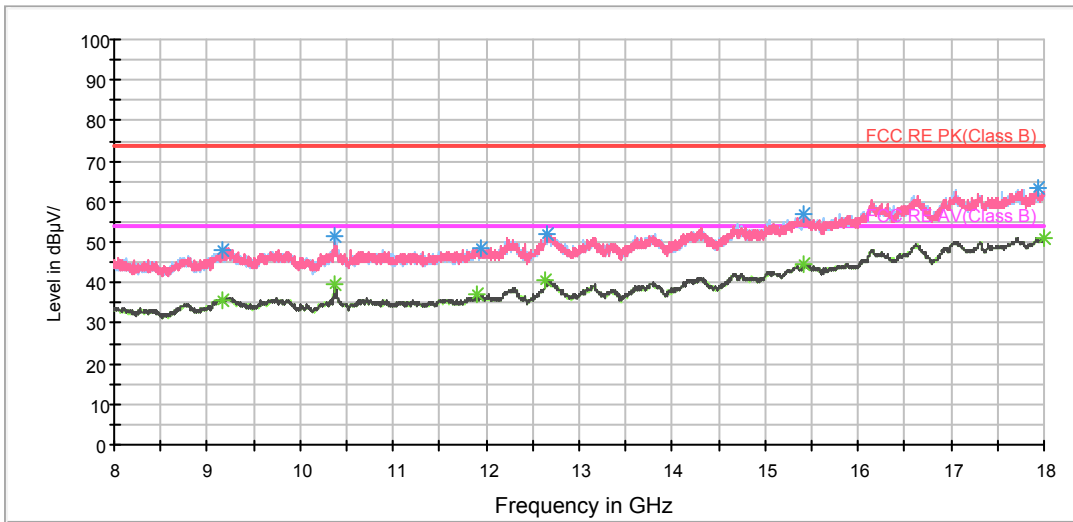
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

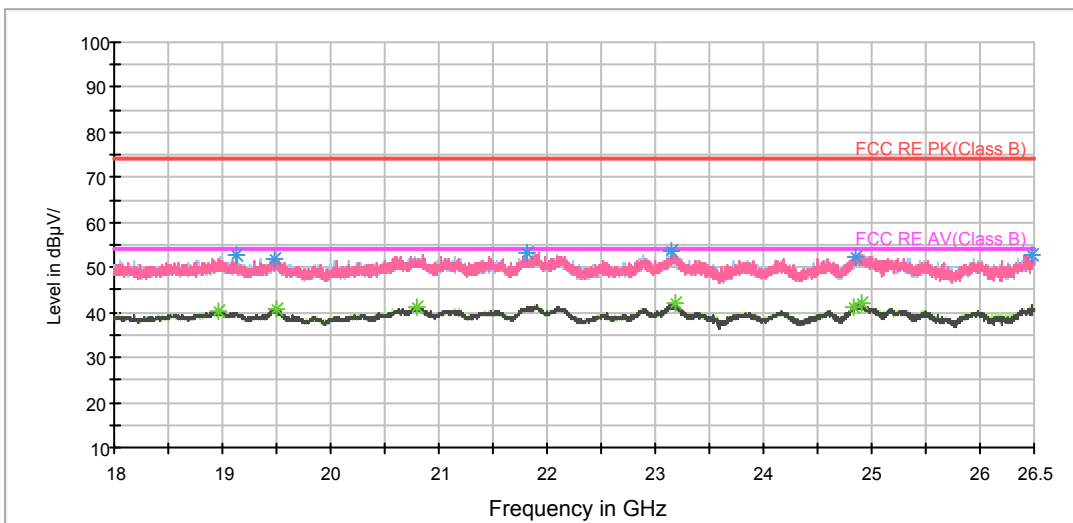
Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



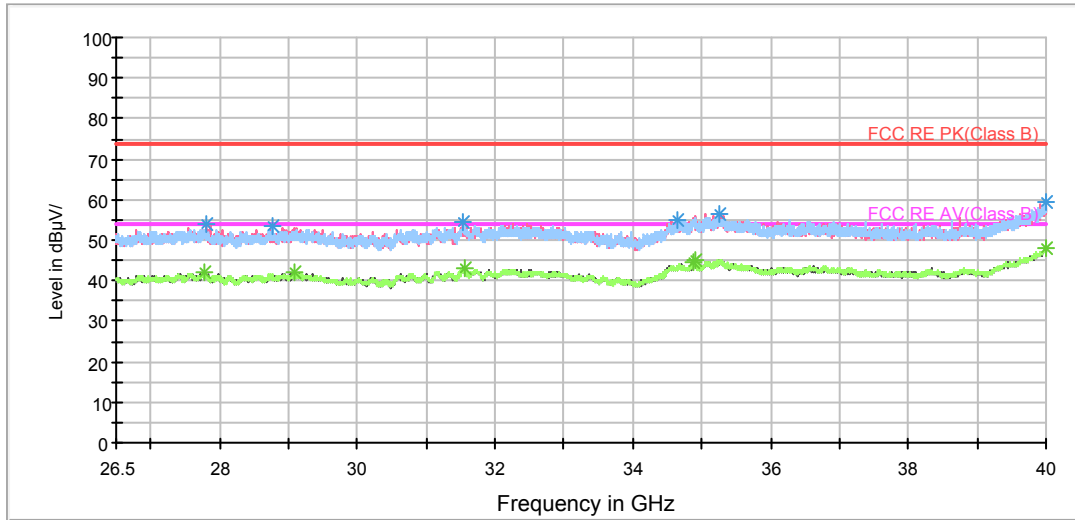
Radiates Emission from 8GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3459.375000	40.8	225.0	V	211.0	43.0	-2.2	33.2	74
3571.875000	48.0	125.0	H	187.0	50.2	-2.2	26.0	74
4756.875000	46.5	125.0	H	230.0	45.4	1.1	27.5	74
5622.500000	48.9	225.0	H	343.0	45.5	3.4	25.1	74
6155.625000	46.3	225.0	V	0.0	40.7	5.6	27.7	74
6987.500000	46.8	125.0	V	0.0	40.4	6.4	27.2	74

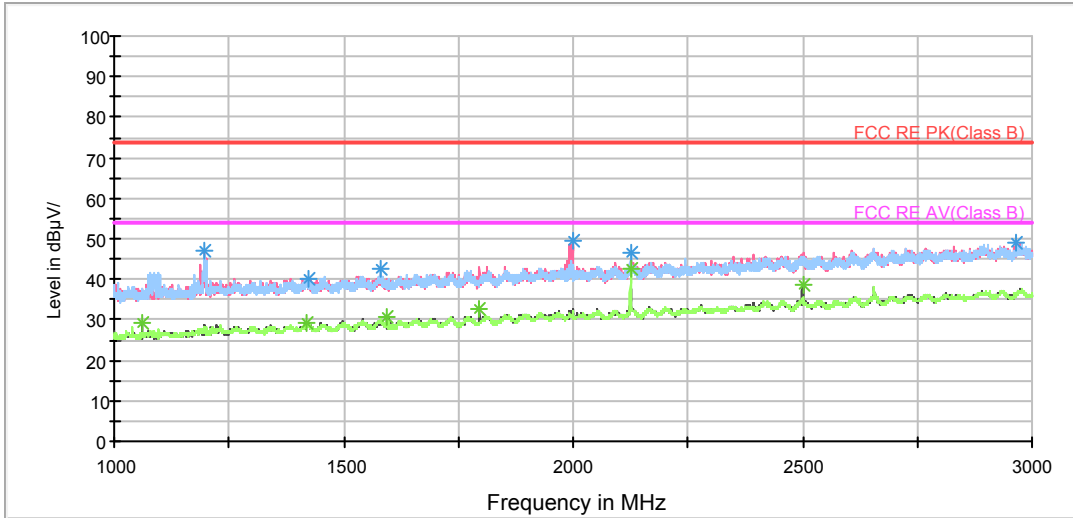
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3460.000000	33.3	225.0	V	211.0	35.5	-2.2	20.7	54
3718.750000	36.1	225.0	V	211.0	37.7	-1.6	17.9	54
4757.500000	40.8	125.0	H	230.0	39.7	1.1	13.2	54
5622.500000	43.2	225.0	H	343.0	39.8	3.4	10.8	54
6055.000000	39.5	225.0	H	282.0	34.6	4.9	14.5	54
7500.000000	39.1	225.0	V	275.0	32.2	6.9	14.9	54

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

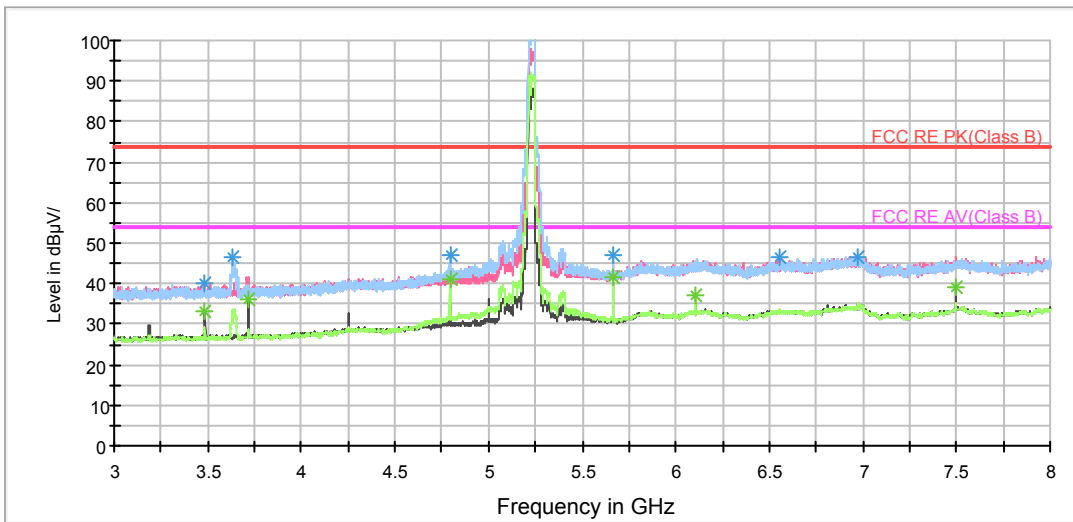
802.11ac (HT40) CH46

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

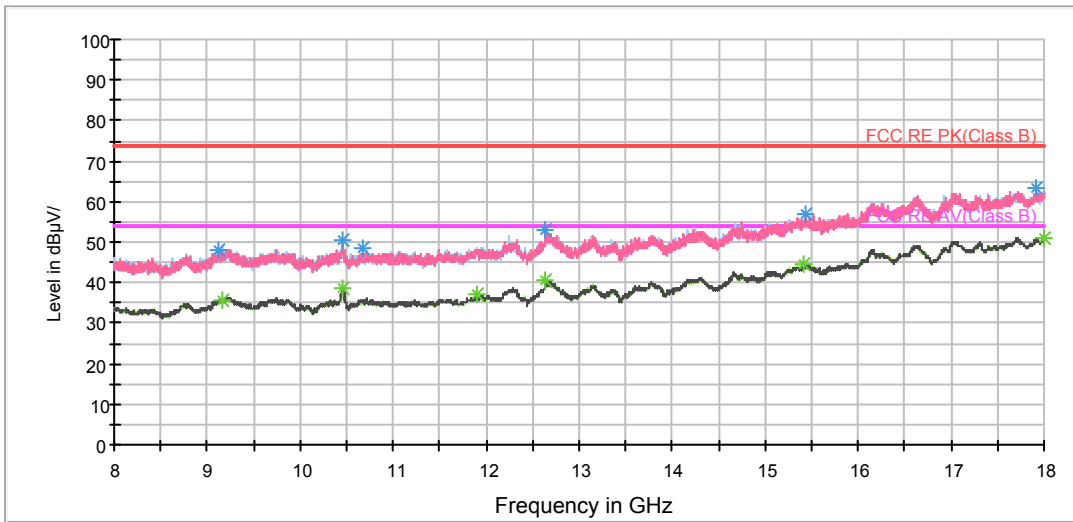
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

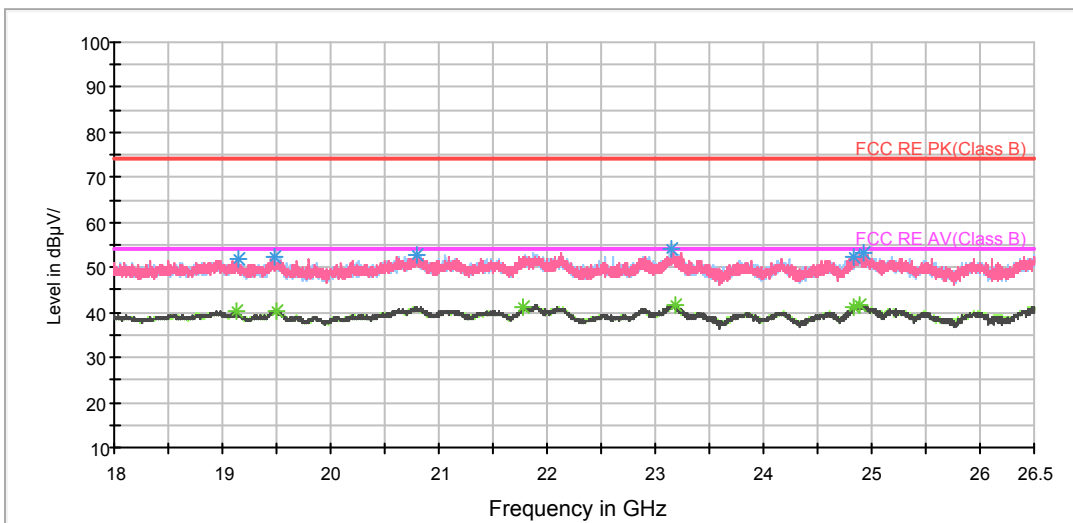
Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



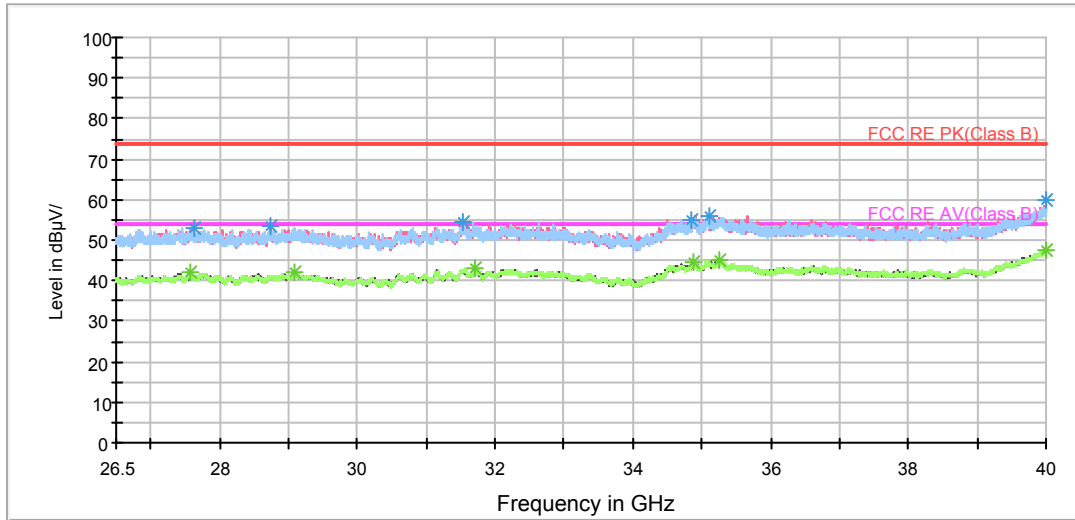
Radiates Emission from 8GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3486.250000	40.1	225.0	V	190.0	42.1	-2.0	33.9	74
3631.875000	46.6	125.0	H	274.0	48.5	-1.9	27.4	74
4793.750000	47.2	125.0	H	252.0	46.0	1.2	26.8	74
5665.625000	47.2	225.0	H	255.0	43.8	3.4	26.8	74
6551.875000	46.4	225.0	V	87.0	40.8	5.6	27.6	74
6969.375000	46.7	125.0	H	167.0	40.4	6.3	27.3	74

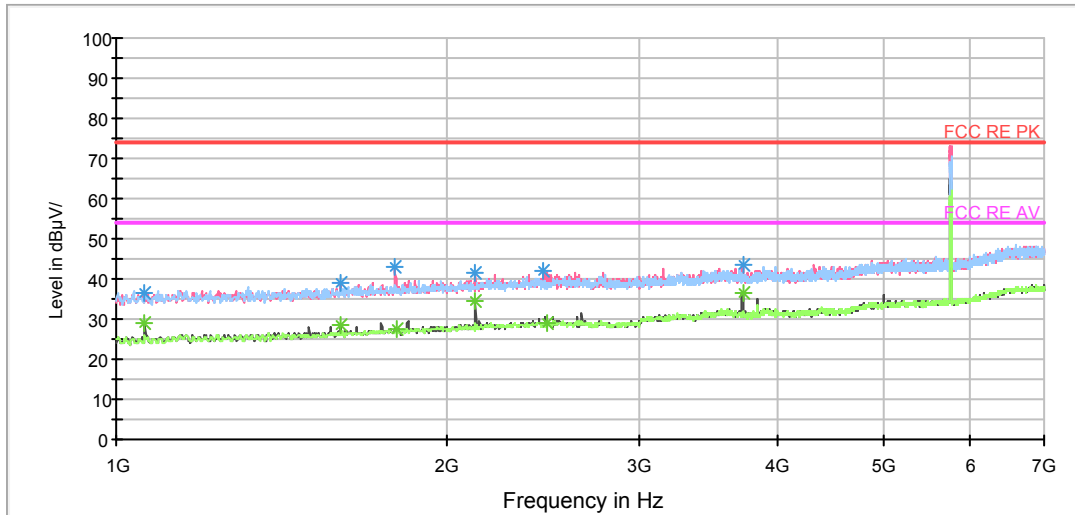
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3486.250000	33.0	225.0	V	190.0	35.0	-2.0	21.0	54
3718.750000	35.9	225.0	V	212.0	37.5	-1.6	18.1	54
4794.375000	41.1	125.0	H	319.0	39.9	1.2	12.9	54
5665.625000	41.8	225.0	H	255.0	38.4	3.4	12.2	54
6101.875000	37.2	125.0	V	85.0	32.1	5.1	16.8	54
7500.000000	39.2	225.0	V	128.0	32.3	6.9	14.8	54

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

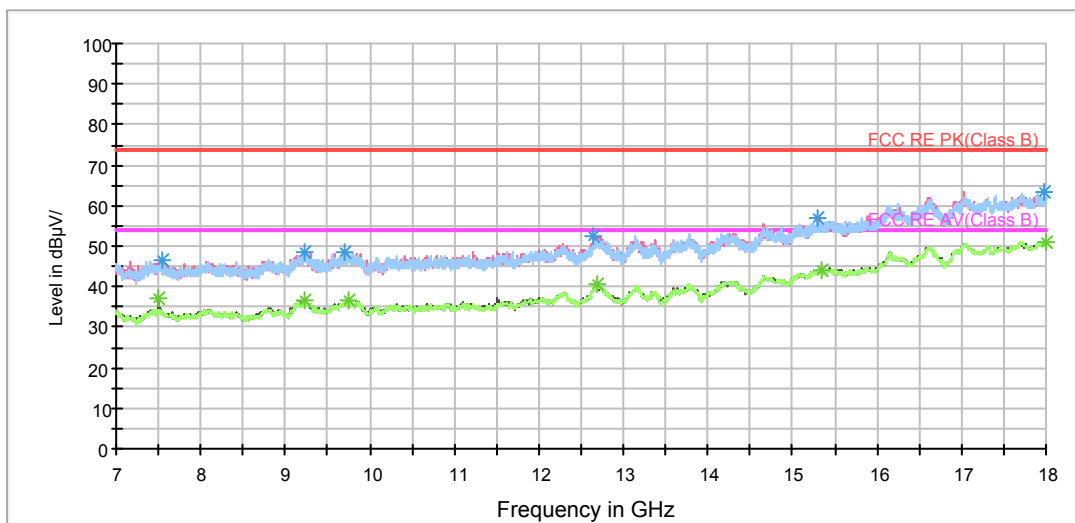
802.11ac (HT40) CH151

RE 1G-7GHz PK+AV Class B



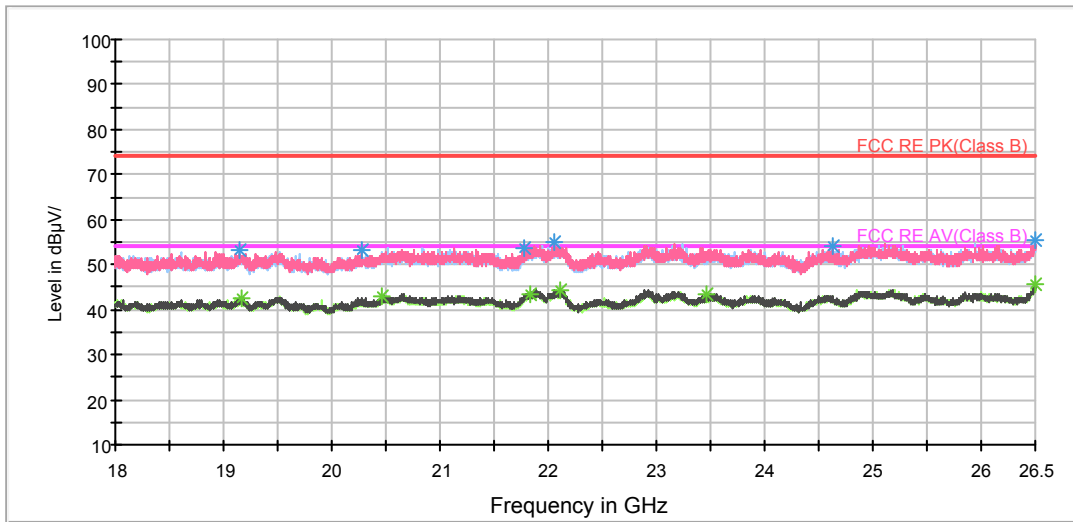
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

RE 3-18GHz PK+AV



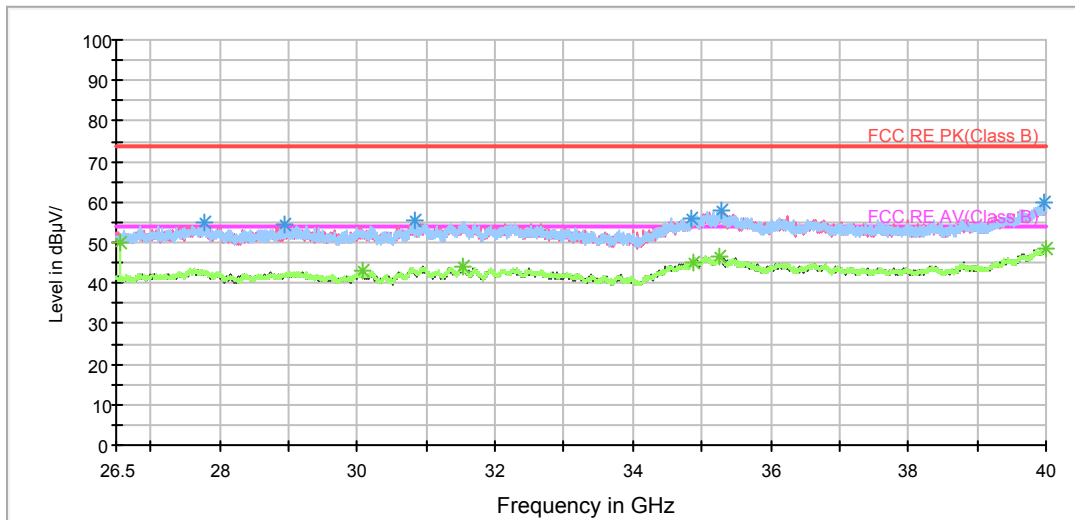
Radiates Emission from 7GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz



Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1061.500000	36.7	100.0	V	119.0	44.7	-8.0	37.3	74
1603.000000	39.1	100.0	V	322.0	45.3	-6.2	34.9	74
1795.000000	43.0	100.0	V	119.0	48.5	-5.5	31.0	74
2125.000000	41.4	100.0	V	248.0	45.7	-4.3	32.6	74
2452.000000	41.9	100.0	V	85.0	44.9	-3.0	32.1	74
3719.500000	43.6	100.0	V	248.0	42.9	0.7	30.4	74

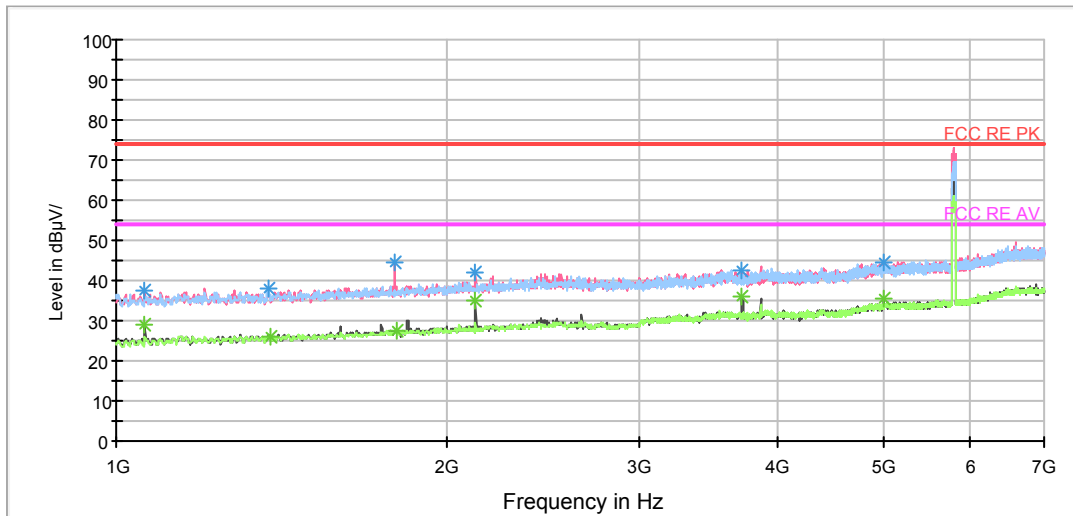
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1061.500000	29.2	100.0	V	119.0	37.2	-8.0	24.8	54
1600.000000	28.4	100.0	V	52.0	34.7	-6.3	25.6	54
1799.500000	27.4	100.0	V	184.0	32.9	-5.5	26.6	54
2125.000000	34.6	100.0	V	248.0	38.9	-4.3	19.4	54
2468.500000	29.1	100.0	V	85.0	32.1	-3.0	24.9	54
3719.500000	36.6	100.0	V	248.0	35.9	0.7	17.4	54

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

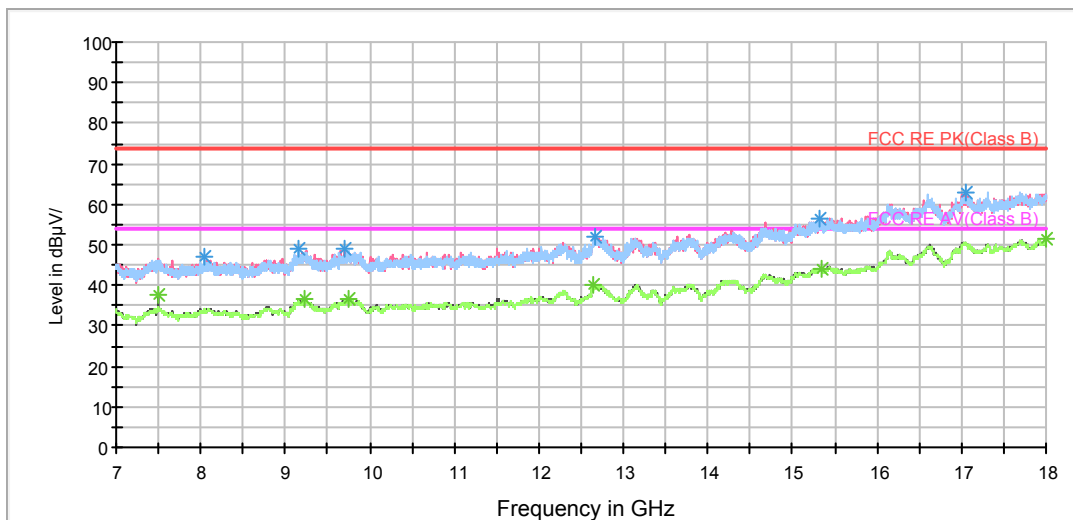
802.11ac (HT40) CH159

RE 1G-7GHz PK+AV Class B



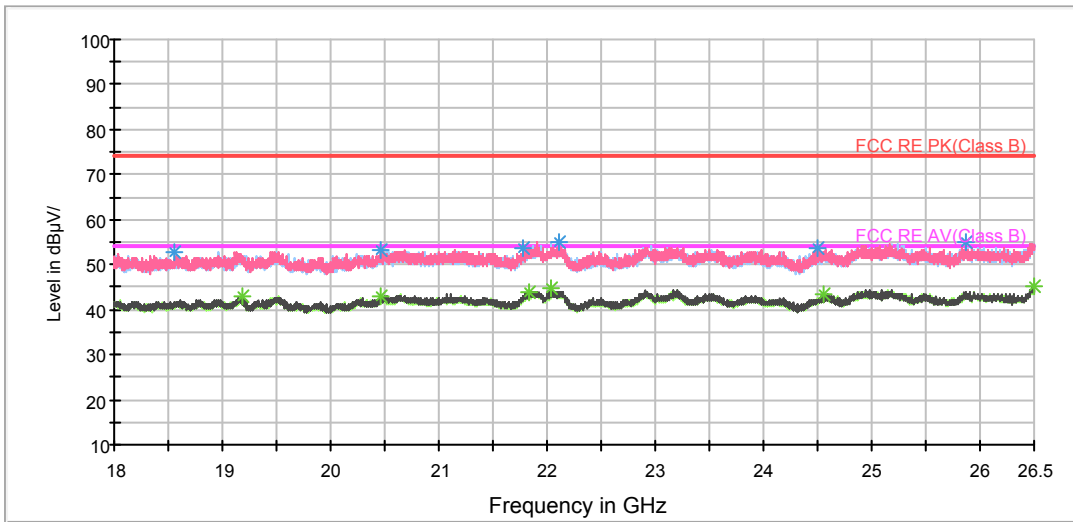
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

RE 3-18GHz PK+AV



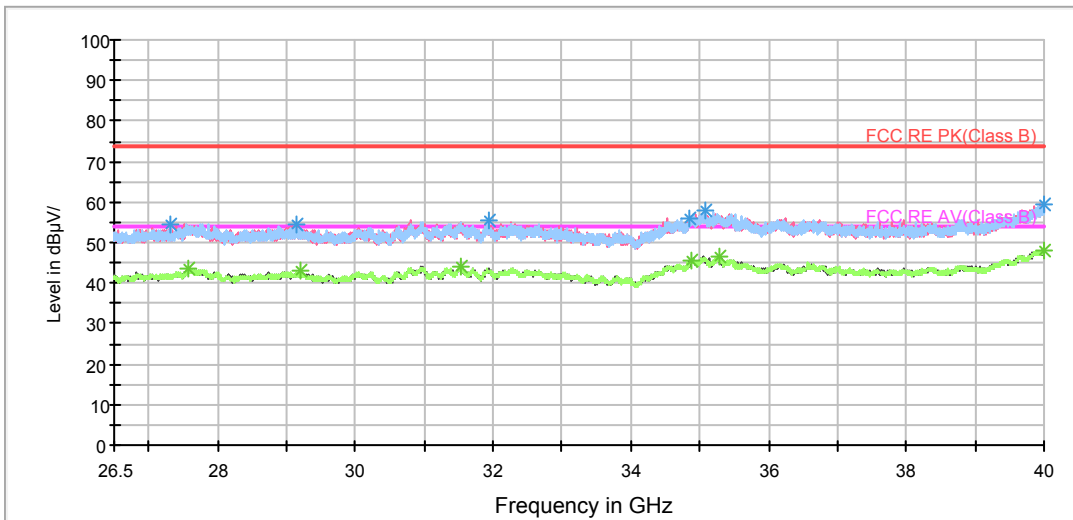
Radiates Emission from 7GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz



Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1061.500000	37.5	100.0	V	118.0	45.5	-8.0	36.5	74
1375.000000	38.0	100.0	H	0.0	45.0	-7.0	36.0	74
1795.000000	44.6	100.0	V	130.0	50.1	-5.5	29.4	74
2125.000000	42.0	100.0	V	249.0	46.3	-4.3	32.0	74
3718.000000	42.7	100.0	V	63.0	42.0	0.7	31.3	74
5000.500000	44.6	100.0	V	334.0	39.2	5.4	29.4	74

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

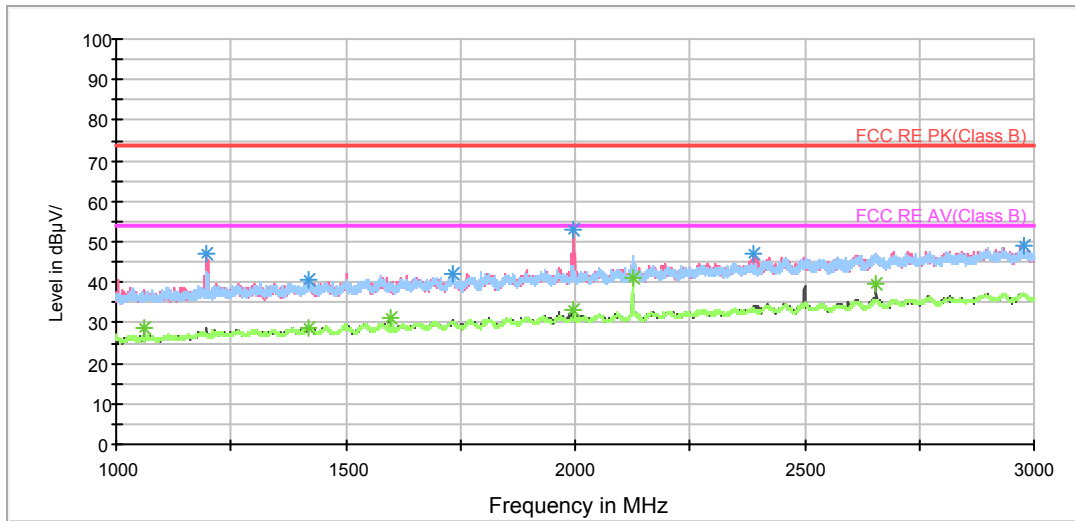
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1061.500000	29.2	100.0	V	118.0	37.2	-8.0	24.8	54
1379.500000	25.9	100.0	V	272.0	32.9	-7.0	28.1	54
1798.000000	27.3	100.0	V	184.0	32.8	-5.5	26.7	54
2125.000000	34.9	100.0	V	249.0	39.2	-4.3	19.1	54
3718.000000	36.2	100.0	V	63.0	35.5	0.7	17.8	54
5000.500000	35.3	100.0	V	334.0	29.9	5.4	18.7	54

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



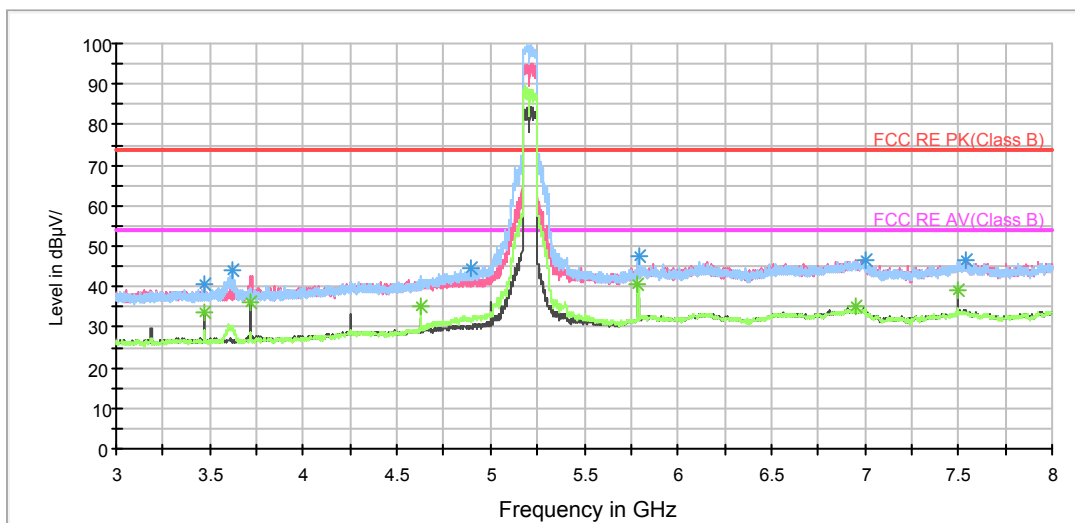
802.11ac (HT80) CH42

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

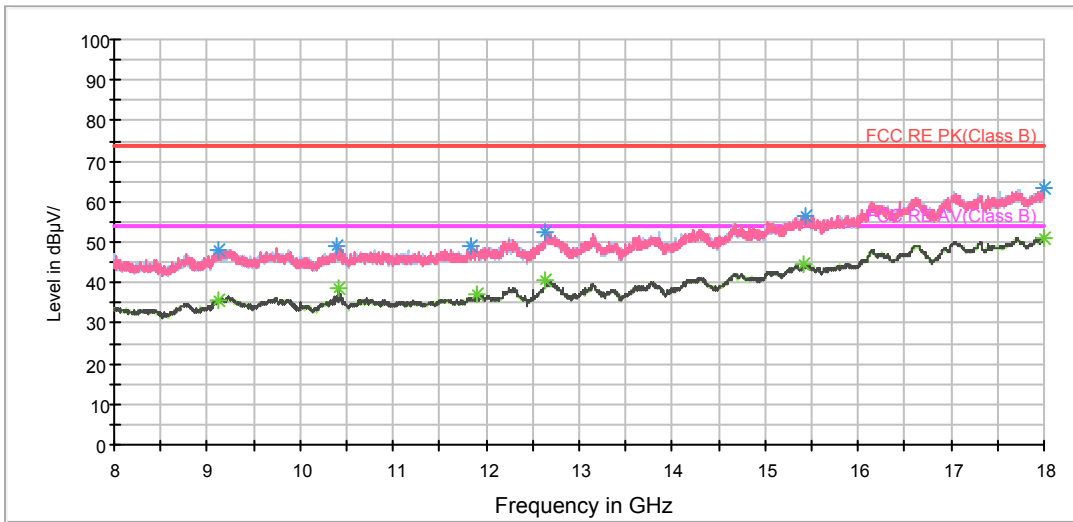
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

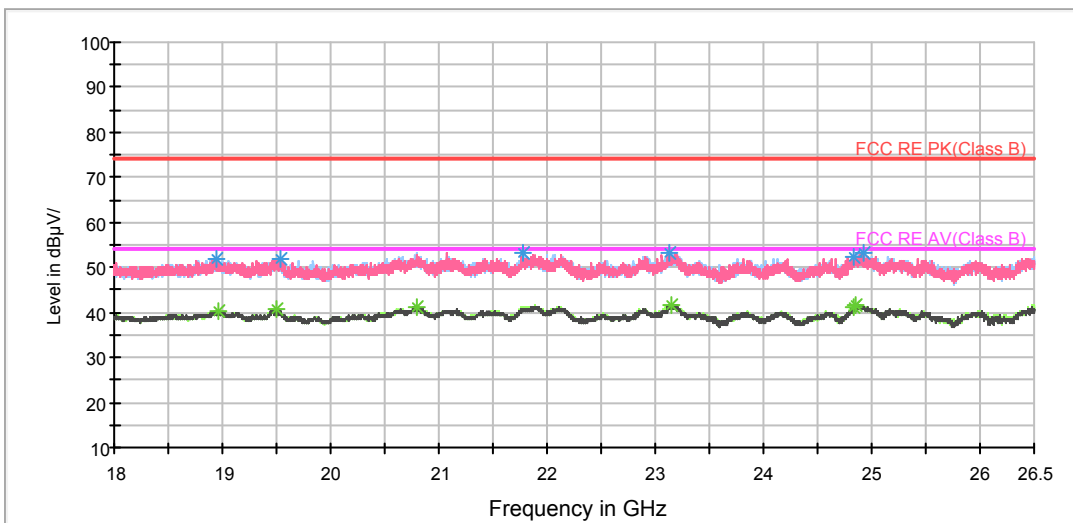
Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



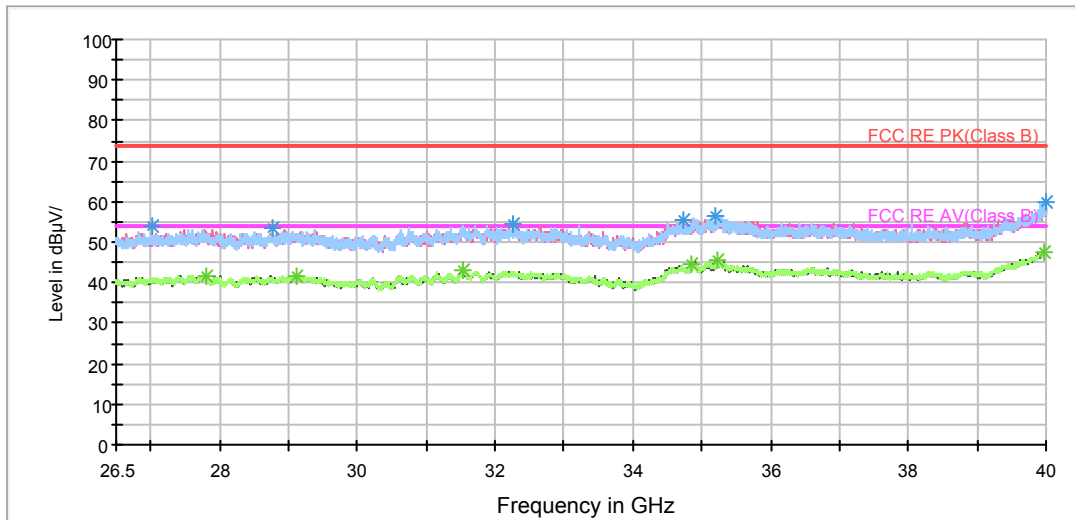
Radiates Emission from 8GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3473.125000	40.5	125.0	V	245.0	42.6	-2.1	33.5	74
3618.750000	44.2	225.0	H	214.0	46.2	-2.0	29.8	74
4896.875000	44.4	125.0	H	231.0	42.5	1.9	29.6	74
5789.375000	47.4	225.0	H	254.0	43.3	4.1	26.6	74
7000.000000	46.5	125.0	H	210.0	39.9	6.6	27.5	74
7538.750000	46.5	125.0	H	0.0	39.5	7.0	27.5	74

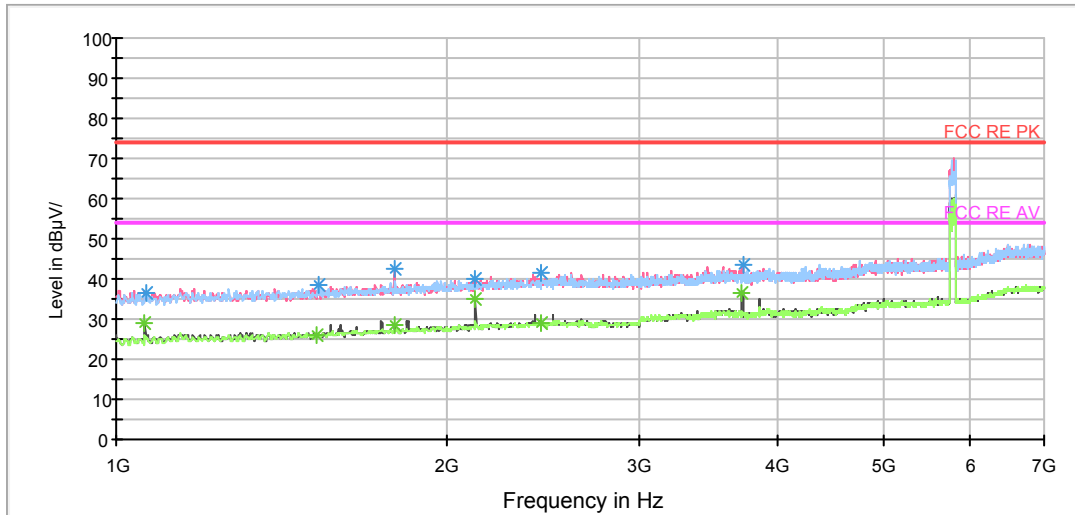
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3473.125000	33.5	225.0	V	190.0	35.6	-2.1	20.5	54
3718.750000	36.0	225.0	V	211.0	37.6	-1.6	18.0	54
4631.250000	35.0	125.0	H	210.0	34.1	0.9	19.0	54
5788.750000	40.5	225.0	H	170.0	36.4	4.1	13.5	54
6946.875000	35.1	225.0	H	192.0	28.9	6.2	18.9	54
7500.000000	39.0	225.0	V	276.0	32.1	6.9	15.0	54

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

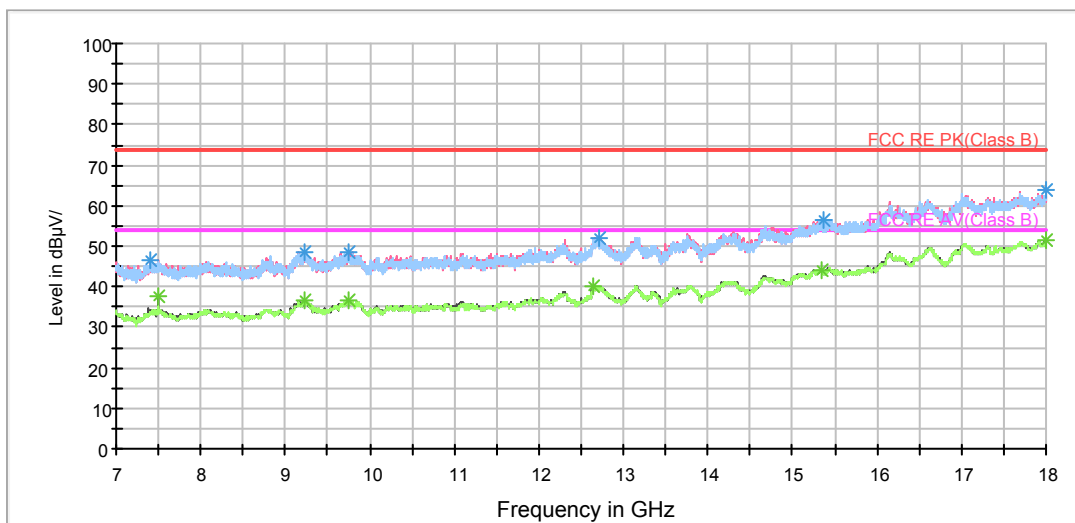
802.11ac (HT80) CH155

RE 1G-7GHz PK+AV Class B



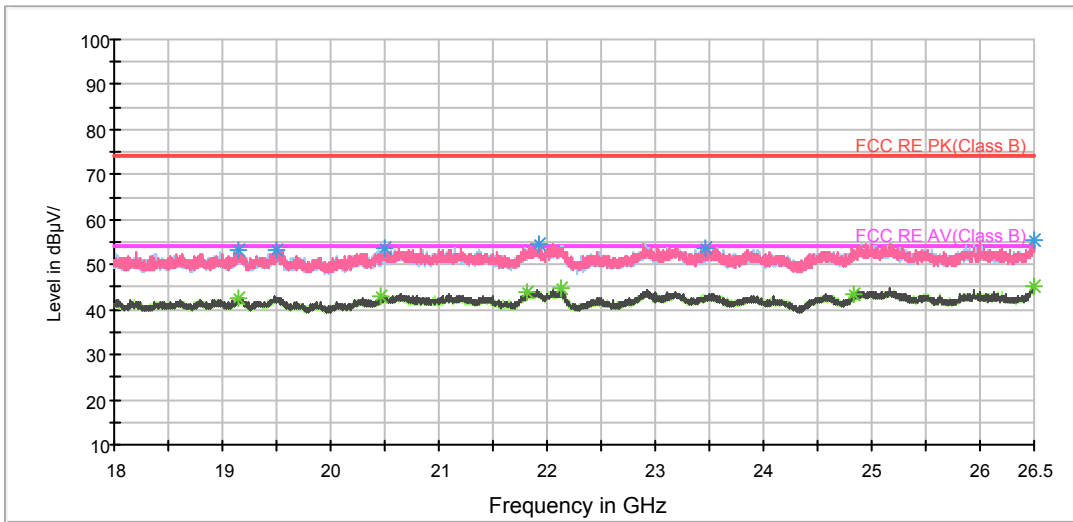
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

RE 3-18GHz PK+AV



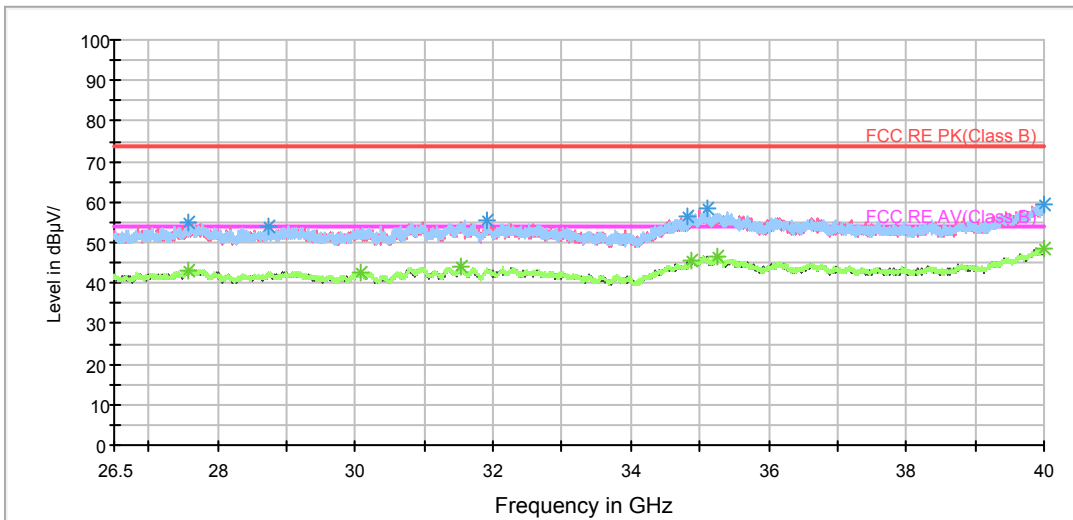
Radiates Emission from 7GHz to 18GHz

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BELL RE 26.5-40GHz PK+AV



Radiates Emission from 26.5GHz to 40GHz



Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1066.000000	36.4	100.0	V	287.0	44.4	-8.0	37.6	74
1526.500000	38.6	100.0	H	4.0	45.1	-6.5	35.4	74
1792.000000	42.4	100.0	V	232.0	48.0	-5.6	31.6	74
2123.500000	39.9	100.0	V	254.0	44.2	-4.3	34.1	74
2435.500000	41.7	100.0	V	143.0	44.8	-3.1	32.3	74
3719.500000	43.5	100.0	V	40.0	42.8	0.7	30.5	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)
1061.500000	29.2	100.0	V	120.0	37.2	-8.0	24.8	54
1525.000000	26.1	100.0	V	143.0	32.6	-6.5	27.9	54
1795.000000	28.5	100.0	V	132.0	34.0	-5.5	25.5	54
2125.000000	34.8	100.0	V	329.0	39.1	-4.3	19.2	54
2438.500000	29.1	100.0	V	350.0	32.2	-3.1	24.9	54
3718.000000	36.3	100.0	V	40.0	35.6	0.7	17.7	54

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

5.6. Conducted Emission

Ambient condition

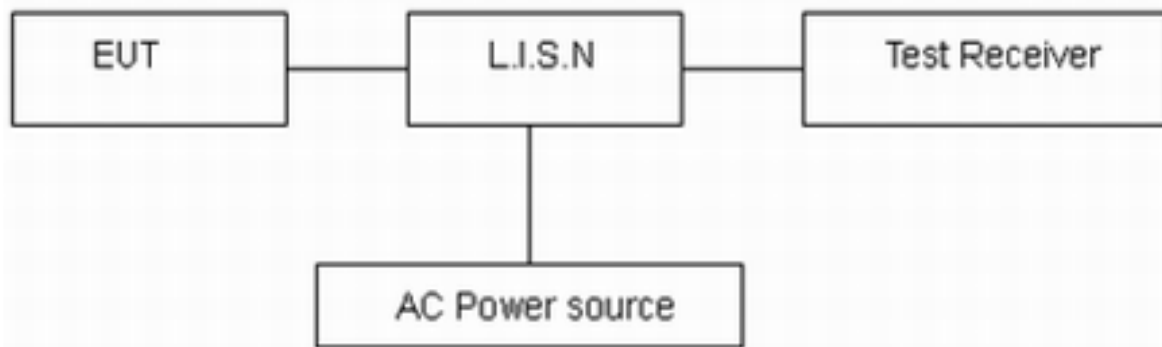
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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(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

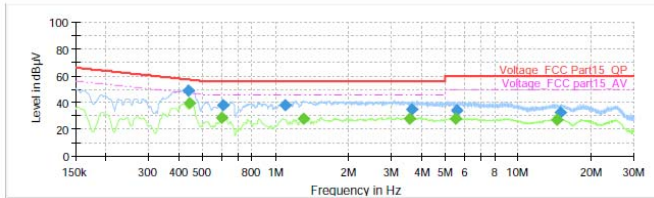
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.



Test Results:

Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11a, Channel 36 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

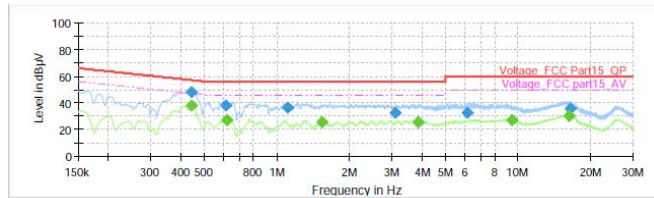
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.435750	48.50	---	57.14	8.64	1000.0	9.000	L1	ON	19.2
0.444750	---	39.74	46.97	7.23	1000.0	9.000	L1	ON	19.2
0.602250	---	28.36	46.00	17.64	1000.0	9.000	L1	ON	19.3
0.606750	38.20	---	56.00	17.80	1000.0	9.000	L1	ON	19.3
1.095000	37.71	---	56.00	18.29	1000.0	9.000	L1	ON	19.2
1.299750	---	28.25	46.00	17.75	1000.0	9.000	L1	ON	19.2
3.565500	---	27.76	46.00	18.24	1000.0	9.000	L1	ON	19.1
3.642000	35.13	---	56.00	20.87	1000.0	9.000	L1	ON	19.1
5.500500	---	27.53	50.00	22.47	1000.0	9.000	L1	ON	19.1
5.604000	33.93	---	60.00	26.07	1000.0	9.000	L1	ON	19.1
14.430750	---	27.16	50.00	22.84	1000.0	9.000	L1	ON	19.5
14.988750	32.78	---	60.00	27.22	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)
0.440250	47.70	---	57.06	9.36	1000.0	9.000	N	ON	19.2
0.442500	---	38.18	47.02	8.84	1000.0	9.000	N	ON	19.2
0.611250	37.89	---	56.00	18.11	1000.0	9.000	N	ON	19.3
0.620250	---	27.40	46.00	18.60	1000.0	9.000	N	ON	19.3
1.101750	36.13	---	56.00	19.87	1000.0	9.000	N	ON	19.2
1.538250	---	25.64	46.00	20.36	1000.0	9.000	N	ON	19.2
3.108750	32.33	---	56.00	23.67	1000.0	9.000	N	ON	19.1
3.828750	---	25.42	46.00	20.58	1000.0	9.000	N	ON	19.0
6.177750	32.72	---	60.00	27.28	1000.0	9.000	N	ON	19.1
9.388500	---	26.96	50.00	23.04	1000.0	9.000	N	ON	19.3
16.318500	---	30.11	50.00	19.89	1000.0	9.000	N	ON	19.4
16.471500	35.52	---	60.00	24.48	1000.0	9.000	N	ON	19.4



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	2017-05-20	2018-05-19
Loop Antenna	FMZB1519	SCHWARZBECK	1519-047	2017-02-18	2020-02-17
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
Standard Gain Horn	3160-09	ETS-Lindgren	00102644	2015-01-30	2018-01-29
Broadband Horn Antenna	BBHA9170	Schwarzbeck	MRTSUE06024	2016-11-24	2019-11-23
EMI Test Receiver	ESCS30	R&S	100138	2016-12-16	2017-12-15
LISN	ENV216	R&S	101171	2016-12-16	2017-12-15
Spectrum Analyzer	N9010A	Agilent	MY47191109	2017-05-20	2018-05-19
RF Cable	SMA 15cm	Agilent	0001	2017-08-04	2018-02-03

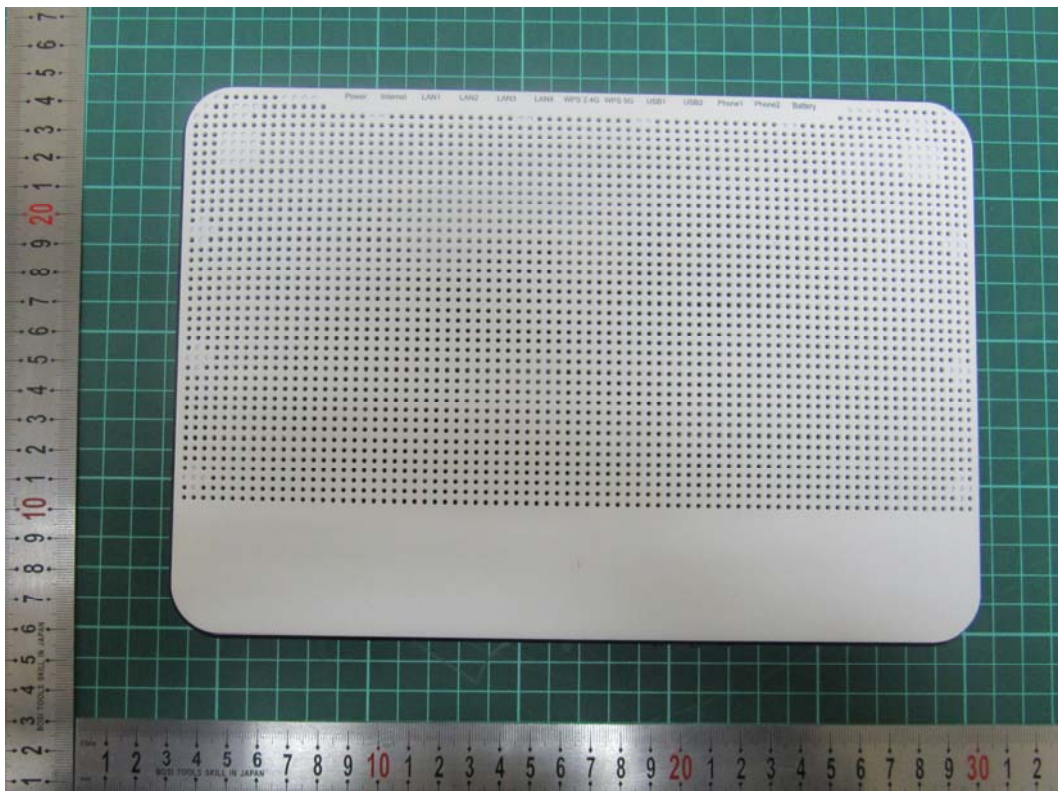
*****END OF REPORT *****

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance



Front Side



Back Side

a: EUT



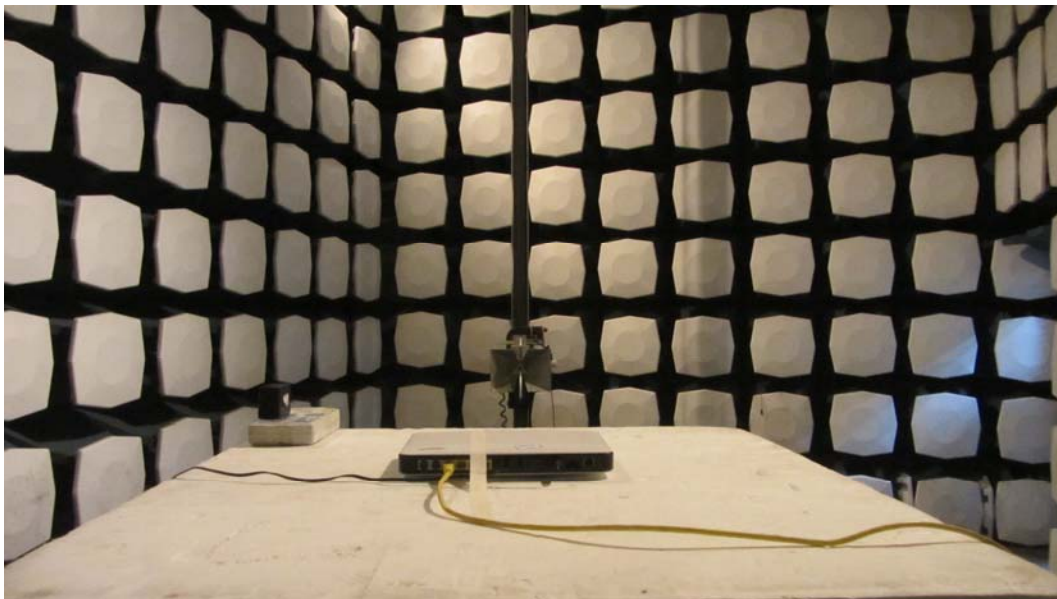
b: Adapter

Picture 1 EUT and Accessory

A.2 Test Setup

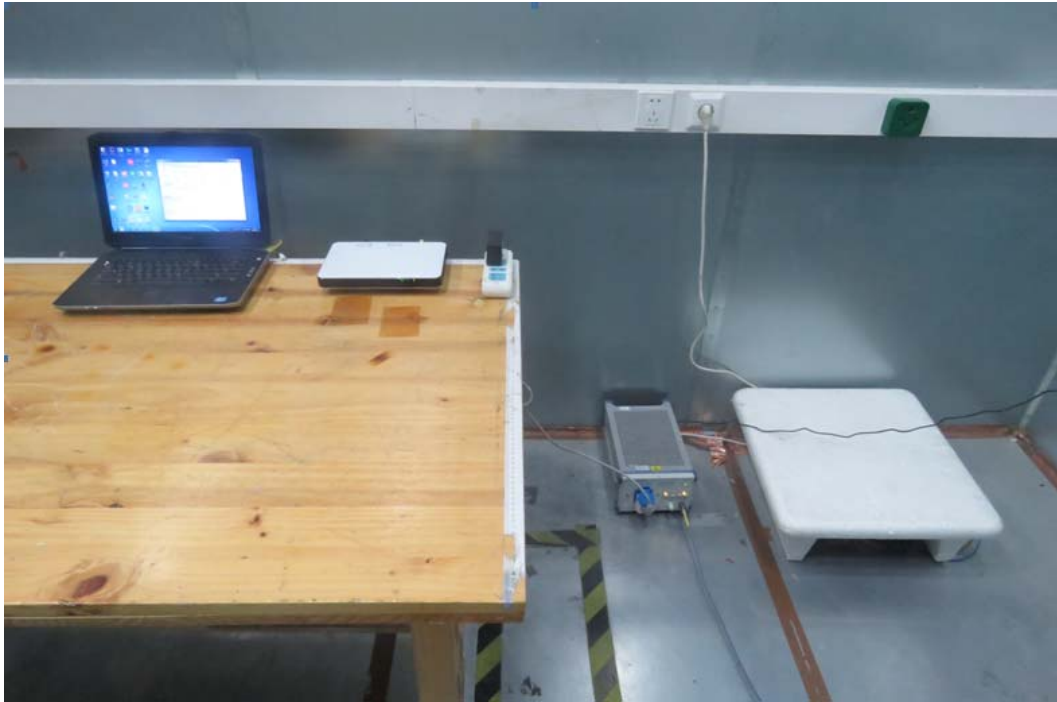


30MHz-1GHz



Above 1GHz

Picture 2 Radiated Emission Test Setup



Picture 3 Conducted Emission Test Setup