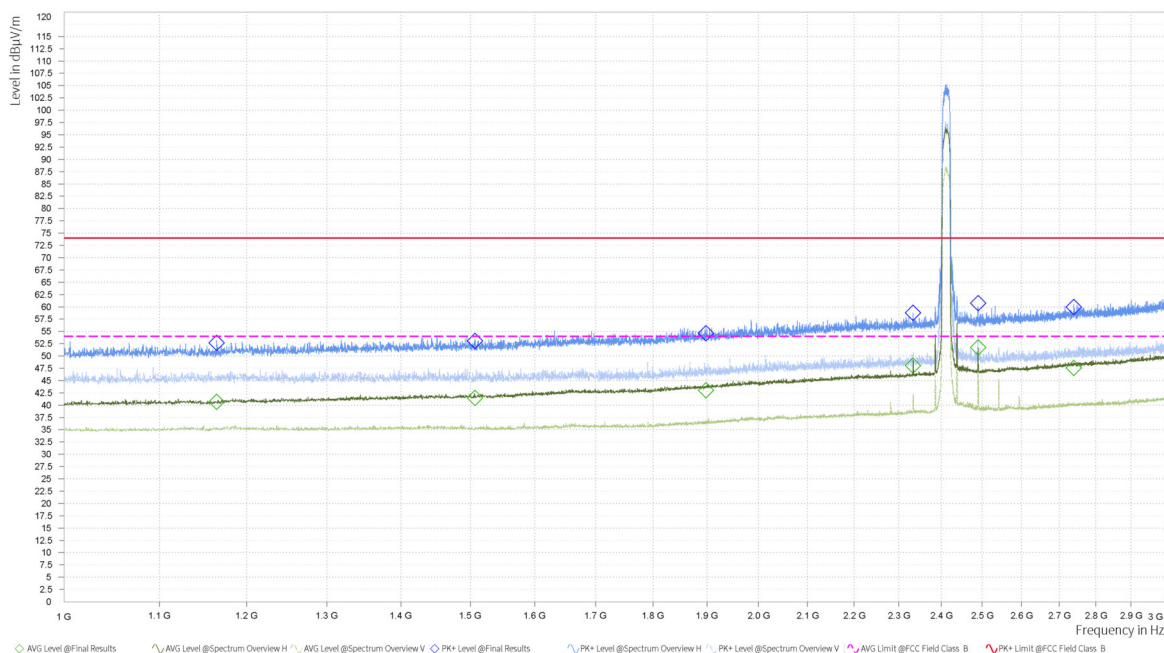


Final Result

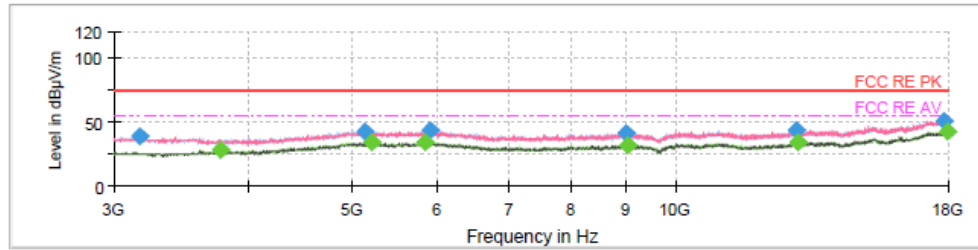
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3129.375000	37.97	---	74.00	36.03	150.0	100.0	H	300.0	-4.7
3860.625000	---	27.42	54.00	26.58	150.0	200.0	H	164.0	-4.0
5075.625000	---	33.64	54.00	20.36	150.0	100.0	H	262.0	2.5
5274.375000	42.26	---	74.00	31.74	150.0	100.0	V	152.0	2.5
5538.750000	42.29	---	74.00	31.71	150.0	200.0	H	322.0	3.0
5902.500000	---	33.60	54.00	20.40	150.0	200.0	H	185.0	3.8
7381.875000	42.58	---	74.00	31.42	150.0	100.0	H	180.0	2.6
7385.625000	---	32.69	54.00	21.31	150.0	200.0	H	180.0	2.6
12907.500000	43.68	---	74.00	30.32	150.0	200.0	H	262.0	10.5
13061.250000	---	34.16	54.00	19.84	150.0	100.0	V	71.0	10.8
17754.375000	51.49	---	74.00	22.51	150.0	200.0	H	333.0	20.4
17900.625000	---	42.48	54.00	11.52	150.0	200.0	V	109.0	20.6

802.11n (HT20) CH1



EMI Final Results

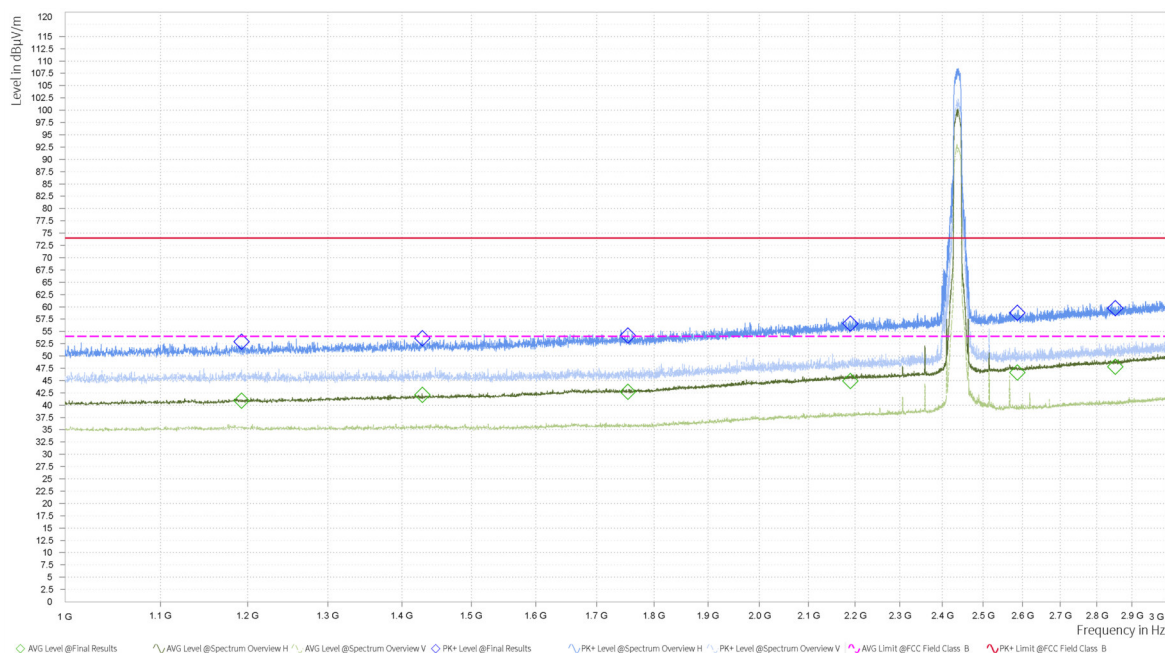
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,164.750	52.63	74.00	21.37	40.69	54.00	13.31	-3.96	H	297.6	1.00
1	1,507.000	53.03	74.00	20.97	41.48	54.00	12.52	-3.27	H	348	1.00
1	1,898.000	54.62	74.00	19.38	43.00	54.00	11.00	-1.85	H	246.2	1.00
1	2,333.500	58.76	74.00	15.24	48.01	54.00	5.99	0.37	H	202.7	1.00
1	2,489.750	60.71	74.00	13.29	51.77	54.00	2.23	0.76	H	197.9	2.00
1	2,739.750	59.96	74.00	14.04	47.58	54.00	6.42	1.95	H	358.2	1.00



Final Result

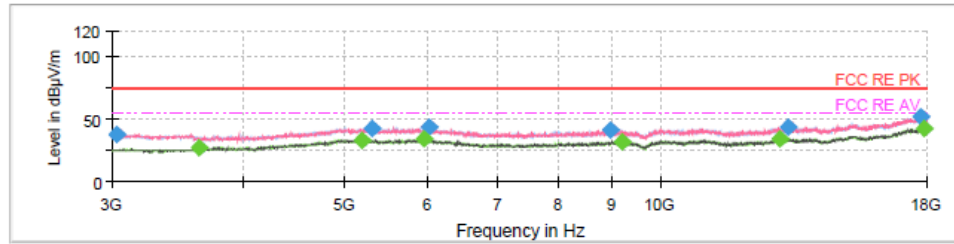
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3174.375000	38.29	---	74.00	35.71	150.0	100.0	H	303.0	-4.7
3774.375000	---	27.71	54.00	26.29	150.0	200.0	V	42.0	-4.0
5135.625000	42.23	---	74.00	31.77	150.0	100.0	V	52.0	2.5
5216.250000	---	34.06	54.00	19.94	150.0	200.0	V	150.0	2.5
5851.875000	---	33.56	54.00	20.44	150.0	200.0	H	110.0	3.9
5919.375000	42.95	---	74.00	31.05	150.0	100.0	V	144.0	3.8
8996.250000	41.52	---	74.00	32.48	150.0	200.0	H	284.0	5.0
9028.125000	---	31.85	54.00	22.15	150.0	200.0	V	144.0	5.0
12973.125000	43.27	---	74.00	30.73	150.0	100.0	H	341.0	10.8
13023.750000	---	34.14	54.00	19.86	150.0	200.0	V	58.0	11.0
17814.375000	50.94	---	74.00	23.06	150.0	200.0	V	139.0	20.5
17906.250000	---	42.22	54.00	11.78	150.0	200.0	V	139.0	20.6

802.11n (HT20) CH6



EMI Final Results

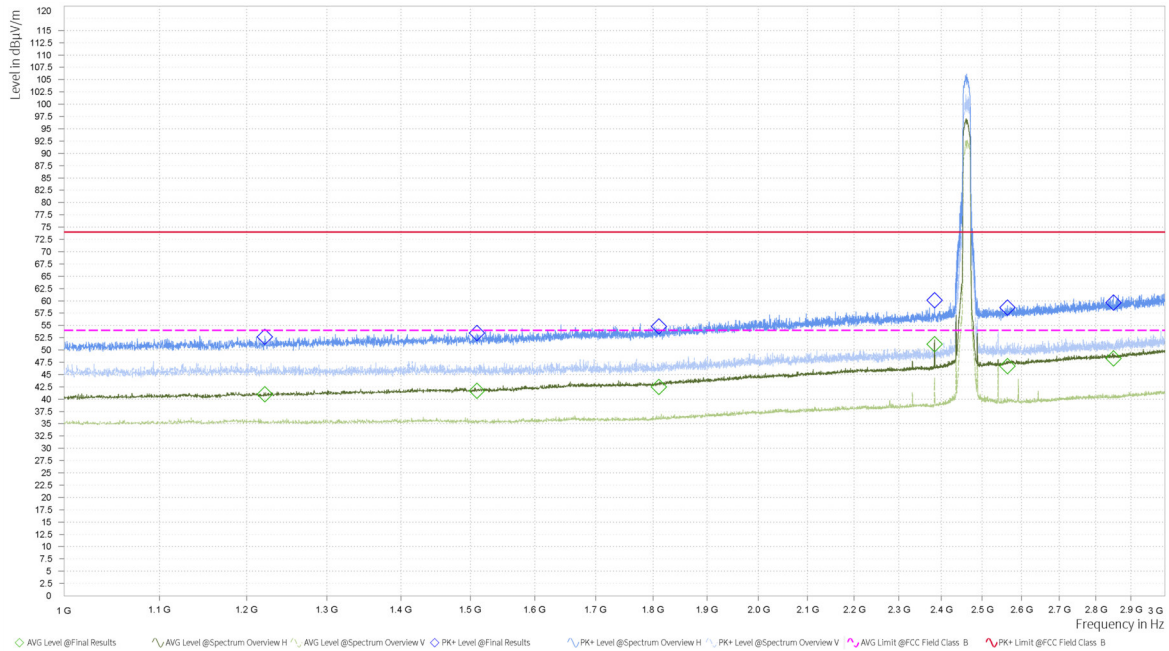
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,192.750	52.92	74.00	21.08	40.93	54.00	13.07	-3.68	H	43.3	1.00
1	1,428.750	53.58	74.00	20.42	42.07	54.00	11.93	-3.26	H	311.5	1.00
1	1,753.750	54.15	74.00	19.85	42.71	54.00	11.29	-2.80	H	174.3	2.00
1	2,190.000	56.58	74.00	17.42	44.90	54.00	9.10	-0.18	H	311.5	1.00
1	2,587.250	58.76	74.00	15.24	46.63	54.00	7.37	1.28	H	202.5	1.00
1	2,852.500	59.72	74.00	14.28	47.82	54.00	6.18	2.36	H	311.5	1.00



Final Result

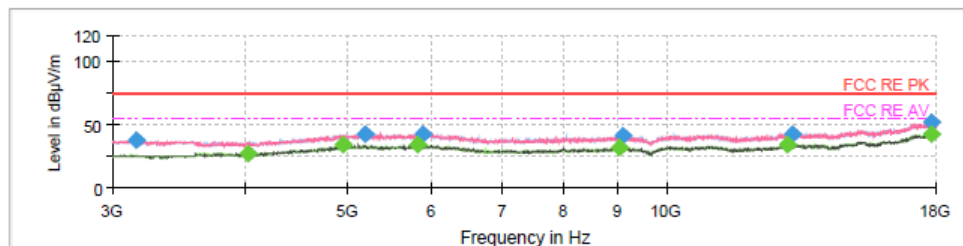
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3028.125000	38.12	---	74.00	35.88	150.0	100.0	H	221.0	-5.0
3630.000000	---	27.34	54.00	26.66	150.0	200.0	V	248.0	-4.1
5193.750000	---	33.33	54.00	20.67	150.0	100.0	V	12.0	2.5
5317.500000	42.80	---	74.00	31.21	150.0	100.0	V	22.0	2.5
5962.500000	---	33.94	54.00	20.06	150.0	200.0	H	357.0	3.9
6030.000000	42.98	---	74.00	31.02	150.0	200.0	H	248.0	3.9
8970.000000	40.93	---	74.00	33.07	150.0	200.0	H	314.0	5.1
9185.625000	---	32.11	54.00	21.89	150.0	100.0	H	265.0	5.2
13020.000000	---	34.35	54.00	19.65	150.0	200.0	V	146.0	11.0
13256.250000	43.55	---	74.00	30.45	150.0	200.0	V	169.0	10.6
17765.625000	51.28	---	74.00	22.72	150.0	200.0	H	335.0	20.4
17896.875000	---	42.03	54.00	11.97	150.0	200.0	V	217.0	20.6

802.11n (HT20) CH11



EMI Final Results

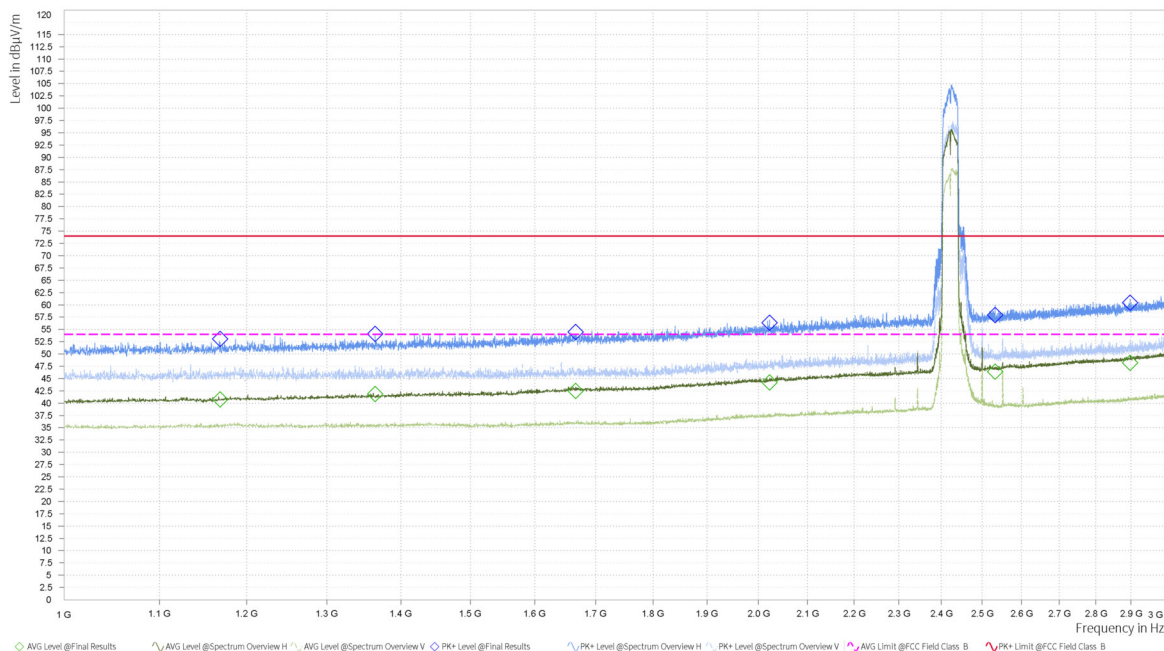
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,222.000	52.64	74.00	21.36	40.99	54.00	13.01	-3.75	H	263.5	1.00
1	1,510.000	53.47	74.00	20.53	41.66	54.00	12.34	-3.23	H	183	1.00
1	1,811.000	54.82	74.00	19.18	42.47	54.00	11.53	-2.58	H	212	1.00
1	2,384.000	60.08	74.00	13.92	51.21	54.00	2.79	0.44	H	190.4	1.00
1	2,563.750	58.62	74.00	15.38	46.72	54.00	7.28	1.35	H	204.9	1.00
1	2,850.500	59.63	74.00	14.37	48.25	54.00	5.75	2.36	H	161.1	1.00



Final Result

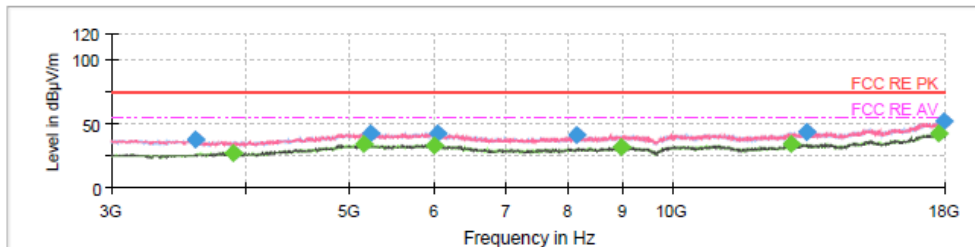
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3161.250000	37.80	---	74.00	36.20	150.0	100.0	H	297.0	-4.6
4029.375000	---	27.08	54.00	26.92	150.0	200.0	H	346.0	-3.7
4953.750000	---	33.83	54.00	20.17	150.0	200.0	H	240.0	2.1
5190.000000	42.30	---	74.00	31.70	150.0	100.0	H	330.0	2.5
5825.625000	---	33.57	54.00	20.43	150.0	200.0	V	112.0	3.9
5895.000000	42.55	---	74.00	31.45	150.0	100.0	H	159.0	3.8
9026.250000	---	32.24	54.00	21.76	150.0	100.0	H	219.0	5.0
9084.375000	41.10	---	74.00	32.90	150.0	200.0	H	324.0	5.0
12999.375000	---	34.49	54.00	19.51	150.0	200.0	H	324.0	10.9
13181.250000	42.94	---	74.00	31.06	150.0	200.0	V	258.0	10.3
17775.000000	---	42.67	54.00	11.33	150.0	100.0	V	6.0	20.4
17806.875000	51.97	---	74.00	22.03	150.0	200.0	H	319.0	20.5

802.11n (HT40) CH3



EMI Final Results

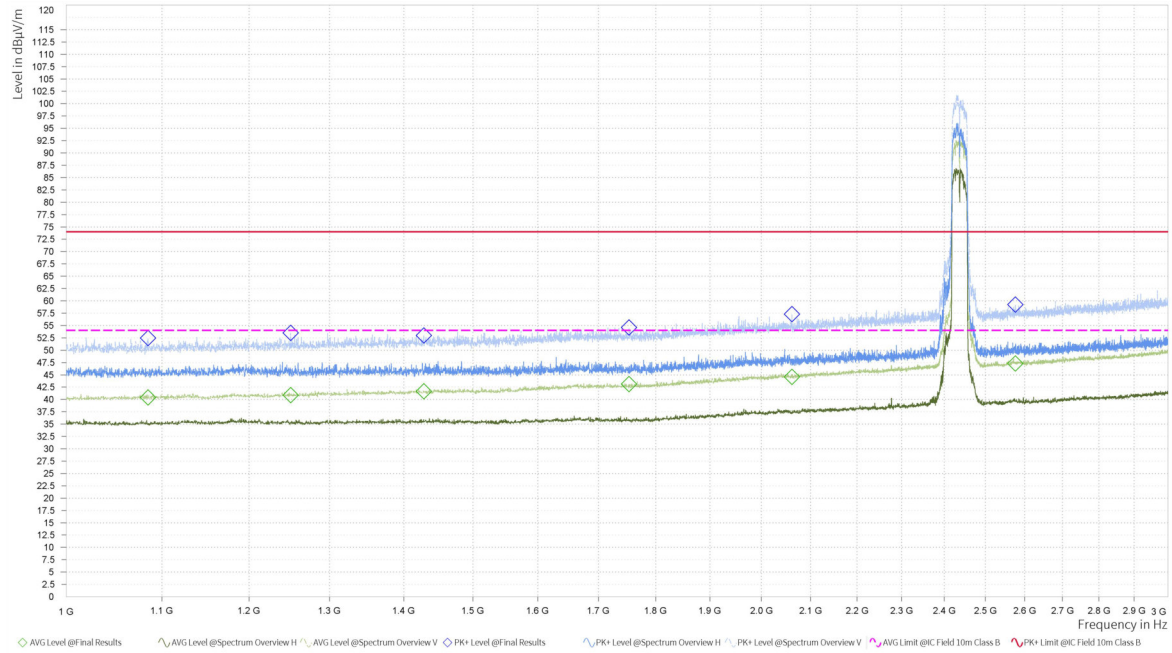
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,168.500	53.05	74.00	20.95	40.79	54.00	13.21	-3.91	H	348.2	1.00
1	1,364.250	54.05	74.00	19.95	41.87	54.00	12.13	-3.42	H	237.1	1.00
1	1,666.250	54.44	74.00	19.56	42.49	54.00	11.51	-2.80	H	312.1	1.00
1	2,022.250	56.33	74.00	17.67	44.24	54.00	9.76	-0.79	H	259.3	1.00
1	2,532.500	57.94	74.00	16.06	46.37	54.00	7.63	1.02	H	88.2	1.00
1	2,898.000	60.40	74.00	13.60	48.24	54.00	5.76	2.69	H	60.3	2.00



Final Result

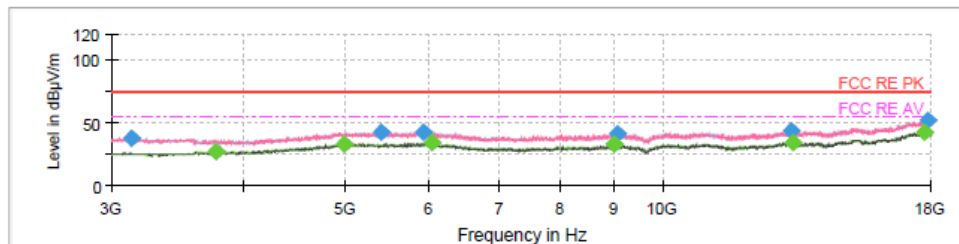
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3594.375000	37.66	---	74.00	36.34	150.0	100.0	V	254.0	-4.1
3903.750000	---	27.46	54.00	26.54	150.0	200.0	V	58.0	-3.9
5150.625000	---	33.73	54.00	20.27	150.0	100.0	V	26.0	2.5
5227.500000	42.15	---	74.00	31.85	150.0	200.0	H	213.0	2.5
6007.500000	---	33.52	54.00	20.48	150.0	100.0	H	0.0	3.9
6041.250000	42.62	---	74.00	31.38	150.0	200.0	H	190.0	3.9
8156.250000	41.48	---	74.00	32.52	150.0	200.0	V	0.0	4.2
8960.625000	---	31.91	54.00	22.09	150.0	100.0	V	26.0	5.1
12903.750000	---	34.15	54.00	19.85	150.0	200.0	V	173.0	10.5
13350.000000	43.42	---	74.00	30.58	150.0	200.0	H	278.0	11.0
17763.750000	---	42.50	54.00	11.50	150.0	100.0	V	96.0	20.4
17911.875000	51.32	---	74.00	22.68	150.0	200.0	H	283.0	20.6

802.11n (HT40) CH6



EMI Final Results

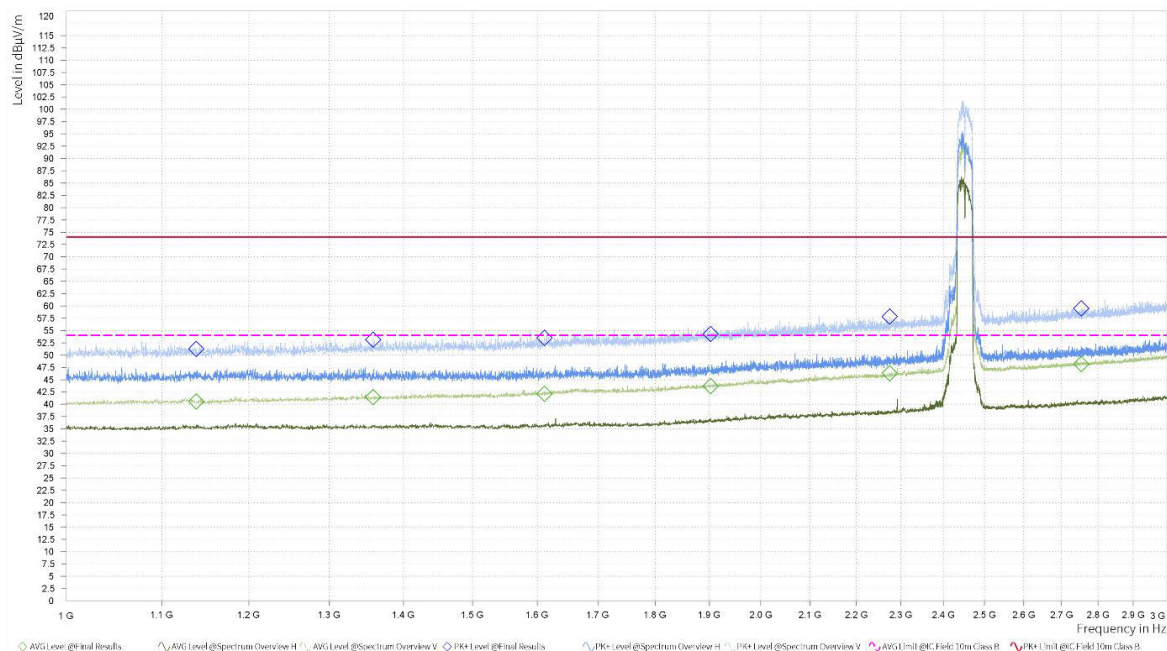
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,085.000	52.42	74.00	21.58	40.41	54.00	13.59	-4.36	V	132	1.00
1	1,250.750	53.50	74.00	20.50	40.87	54.00	13.13	-3.58	V	11.2	1.00
1	1,428.250	52.96	74.00	21.04	41.63	54.00	12.37	-3.26	V	39.5	1.00
1	1,752.750	54.58	74.00	19.42	43.12	54.00	10.88	-2.80	V	181.1	1.00
1	2,061.750	57.27	74.00	16.73	44.58	54.00	9.42	-0.78	V	74.9	1.00
1	2,576.000	59.20	74.00	14.80	47.27	54.00	6.73	1.39	V	138.8	1.00



Final Result

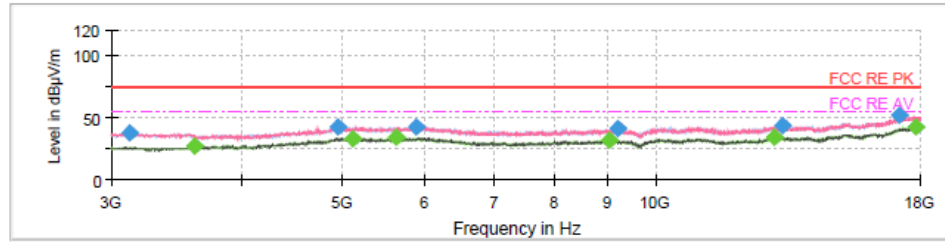
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3133.125000	37.57	---	74.00	36.43	150.0	100.0	H	226.0	-4.6
3765.000000	---	27.30	54.00	26.70	150.0	200.0	V	78.0	-4.0
4983.750000	---	33.44	54.00	20.56	150.0	100.0	H	232.0	2.3
5407.500000	42.21	---	74.00	31.79	150.0	200.0	H	313.0	2.7
5923.125000	42.74	---	74.00	31.26	150.0	200.0	V	30.0	3.8
6039.375000	---	33.88	54.00	20.12	150.0	100.0	V	0.0	3.9
9007.500000	---	32.41	54.00	21.59	150.0	200.0	H	49.0	5.0
9076.875000	40.93	---	74.00	33.07	150.0	100.0	V	266.0	5.0
13246.875000	43.38	---	74.00	30.62	150.0	200.0	H	329.0	10.6
13318.125000	---	34.18	54.00	19.82	150.0	200.0	H	291.0	10.9
17715.000000	---	42.28	54.00	11.72	150.0	200.0	H	135.0	20.4
17876.250000	51.29	---	74.00	22.71	150.0	200.0	V	304.0	20.5

802.11n (HT40) CH9



EMI Final Results

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,138.500	51.26	74.00	22.74	40.56	54.00	13.44	-3.99	V	124	1.00
1	1,358.250	53.09	74.00	20.91	41.43	54.00	12.57	-3.43	V	82.1	1.00
1	1,611.750	53.50	74.00	20.50	42.08	54.00	11.92	-3.10	V	0	1.00
1	1,902.250	54.24	74.00	19.76	43.67	54.00	10.33	-1.81	V	124	1.00
1	2,274.500	57.82	74.00	16.18	46.29	54.00	7.71	0.07	V	103.2	1.00
1	2,754.000	59.50	74.00	14.50	48.16	54.00	5.84	2.03	V	0	1.00

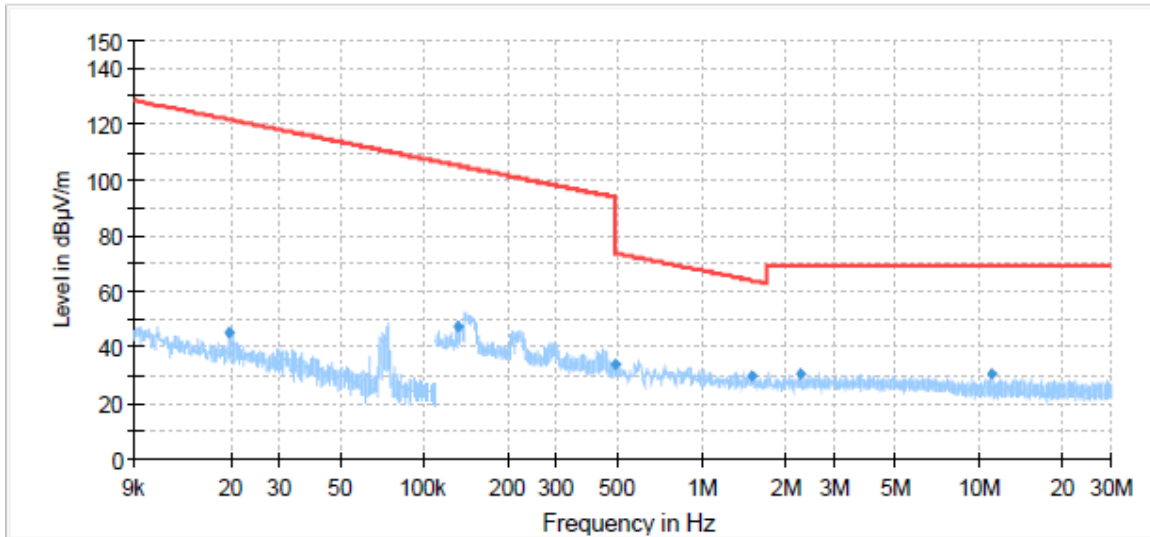


Final Result

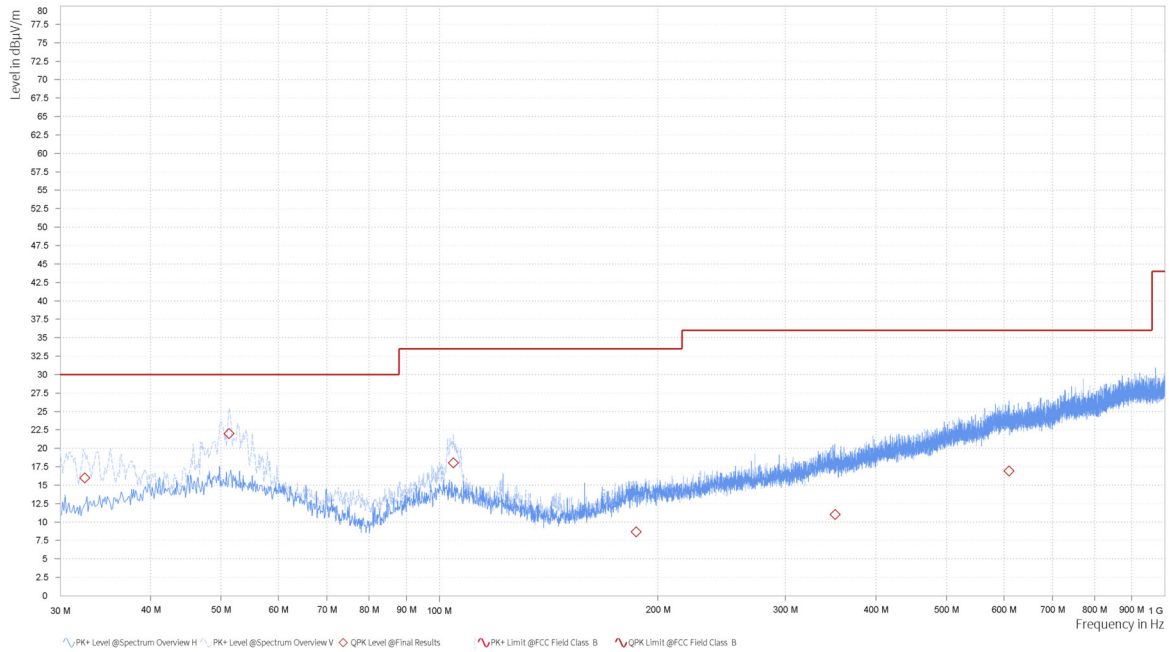
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3125.625000	37.48	---	74.00	36.52	150.0	100.0	V	4.0	-4.7
3611.250000	---	27.62	54.00	26.38	150.0	200.0	H	279.0	-4.2
4959.375000	42.20	---	74.00	31.80	150.0	100.0	V	82.0	2.2
5124.375000	---	33.17	54.00	20.83	150.0	200.0	H	349.0	2.5
5632.500000	---	34.01	54.00	19.99	150.0	100.0	H	284.0	3.3
5883.750000	42.38	---	74.00	31.62	150.0	200.0	H	355.0	3.8
9026.250000	---	31.84	54.00	22.16	150.0	200.0	V	115.0	5.0
9206.250000	41.04	---	74.00	32.96	150.0	100.0	H	86.0	5.2
13010.625000	---	34.18	54.00	19.82	150.0	100.0	V	164.0	10.9
13250.625000	43.29	---	74.00	30.71	150.0	200.0	V	175.0	10.6
17178.750000	51.24	---	74.00	22.76	150.0	200.0	H	195.0	19.8
17821.875000	---	42.32	54.00	11.68	150.0	200.0	V	284.0	20.5

Bluetooth LE

During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 9kHz to 30MHz



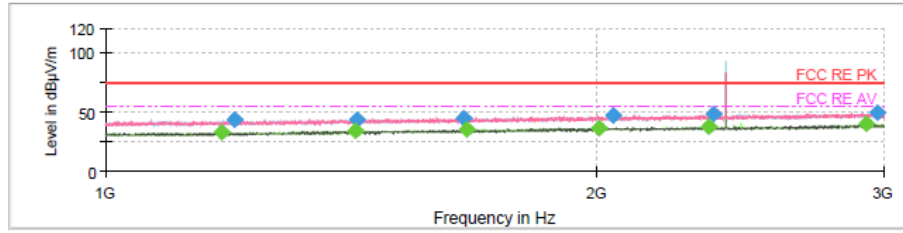
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Polarization	Azimuth (deg)	Correct Factor (dB)
32.436	15.99	30.00	14.01	1.00	V	157.3	-11.89
51.265	22.01	30.00	7.99	1.00	V	165.3	-8.47
104.565	18.00	33.50	15.50	1.17	V	163.2	-10.03
186.707	8.67	33.50	24.83	1.82	H	264.5	-11.01
351.007	11.05	36.00	24.95	1.98	H	175.4	-6.00
610.004	16.94	36.00	19.06	1.04	H	89.3	-0.68

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

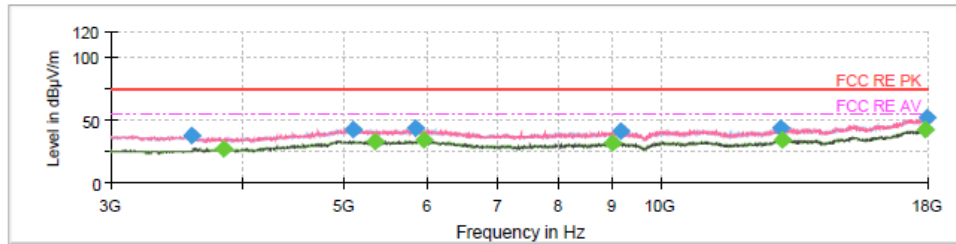
2. Margin = Limit – Quasi-Peak

Bluetooth LE-Channel 0



Final Result

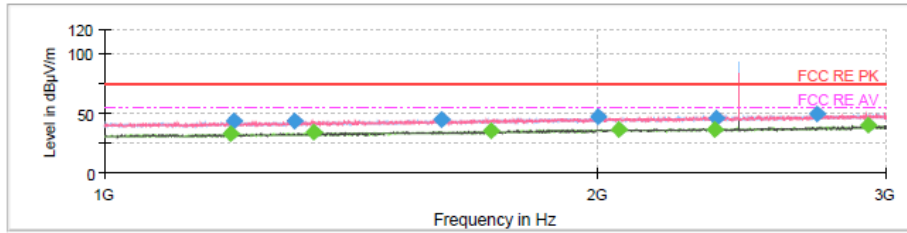
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1179.250000	---	32.39	54.00	21.61	150.0	200.0	H	245.0	-3.7
1199.500000	42.96	---	74.00	31.04	150.0	100.0	V	223.0	-3.6
1421.500000	---	33.82	54.00	20.18	150.0	100.0	V	179.0	-2.1
1427.000000	43.63	---	74.00	30.37	150.0	200.0	V	236.0	-2.0
1656.750000	45.28	---	74.00	28.72	150.0	200.0	H	3.0	-0.5
1665.500000	---	34.91	54.00	19.09	150.0	100.0	H	68.0	-0.4
2007.750000	---	36.58	54.00	17.42	150.0	200.0	V	276.0	1.7
2048.500000	46.79	---	74.00	27.21	150.0	100.0	H	232.0	2.1
2340.500000	---	37.09	54.00	16.91	150.0	200.0	H	276.0	3.2
2357.250000	47.88	---	74.00	26.13	150.0	200.0	V	263.0	3.2
2927.250000	---	39.82	54.00	14.18	150.0	100.0	H	130.0	6.5
2974.250000	49.14	---	74.00	24.86	150.0	100.0	H	25.0	6.8



Final Result

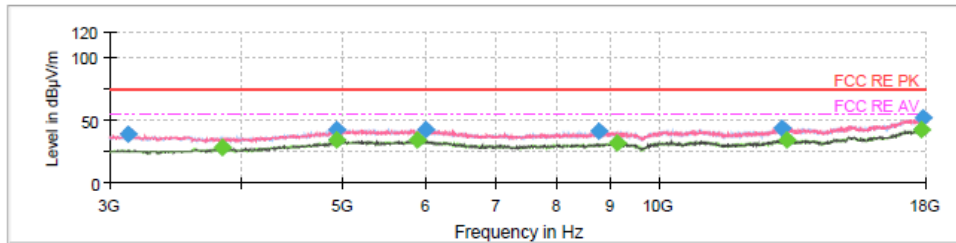
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3581.250000	37.59	---	74.00	36.41	150.0	100.0	V	213.0	-4.0
3845.625000	---	27.26	54.00	26.74	150.0	200.0	H	334.0	-4.1
5103.750000	42.56	---	74.00	31.44	150.0	100.0	V	27.0	2.5
5345.625000	---	33.31	54.00	20.69	150.0	200.0	H	237.0	2.6
5851.875000	43.19	---	74.00	30.81	150.0	200.0	H	290.0	3.9
5947.500000	---	33.61	54.00	20.39	150.0	100.0	H	82.0	3.8
9001.875000	---	31.94	54.00	22.06	150.0	200.0	V	59.0	5.0
9178.125000	41.10	---	74.00	32.90	150.0	200.0	V	138.0	5.1
13003.125000	43.36	---	74.00	30.64	150.0	100.0	V	290.0	10.9
13063.125000	---	34.17	54.00	19.83	150.0	200.0	V	359.0	10.7
17874.375000	---	42.01	54.00	11.99	150.0	100.0	V	5.0	20.5
17904.375000	52.05	---	74.00	21.95	150.0	200.0	V	0.0	20.6

Bluetooth LE-Channel 19



Final Result

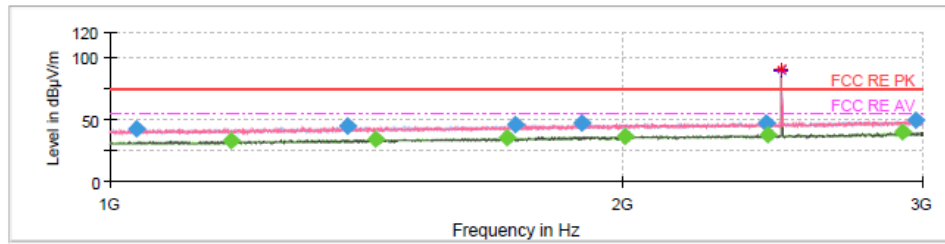
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1193.250000	---	32.71	54.00	21.29	150.0	100.0	H	220.0	-3.6
1199.000000	43.00	---	74.00	31.00	150.0	200.0	H	0.0	-3.6
1306.000000	43.61	---	74.00	30.39	150.0	100.0	V	247.0	-2.8
1343.250000	---	33.80	54.00	20.20	150.0	100.0	H	64.0	-2.6
1606.250000	44.69	---	74.00	29.31	150.0	200.0	V	34.0	-0.8
1721.000000	---	34.99	54.00	19.01	150.0	200.0	H	91.0	-0.1
2000.750000	46.56	---	74.00	27.44	150.0	100.0	H	96.0	1.7
2060.250000	---	36.75	54.00	17.25	150.0	200.0	V	318.0	1.9
2359.500000	---	36.84	54.00	17.16	150.0	200.0	H	122.0	3.2
2363.750000	46.38	---	74.00	27.62	150.0	100.0	V	0.0	3.2
2721.000000	49.33	---	74.00	24.67	150.0	200.0	H	109.0	5.1
2929.750000	---	39.50	54.00	14.50	150.0	100.0	H	118.0	6.5



Final Result

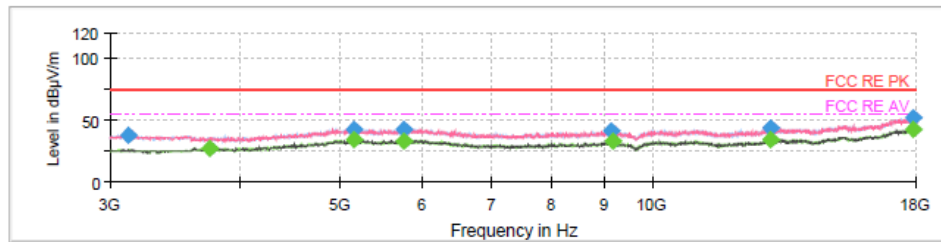
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3125.625000	38.33	---	74.00	35.67	150.0	100.0	V	172.0	-4.7
3834.375000	---	28.21	54.00	25.79	150.0	200.0	V	84.0	-4.2
4927.500000	---	33.93	54.00	20.07	150.0	100.0	V	96.0	1.9
4942.500000	42.39	---	74.00	31.61	150.0	100.0	V	3.0	2.0
5880.000000	---	33.94	54.00	20.06	150.0	200.0	H	245.0	3.8
6005.625000	42.47	---	74.00	31.53	150.0	200.0	H	223.0	3.9
8773.125000	40.63	---	74.00	33.37	150.0	200.0	V	68.0	5.0
9123.750000	---	31.78	54.00	22.22	150.0	100.0	V	268.0	5.1
13095.000000	43.35	---	74.00	30.65	150.0	200.0	H	250.0	10.5
13267.500000	---	34.22	54.00	19.78	150.0	200.0	H	337.0	10.7
17786.250000	---	41.99	54.00	12.01	150.0	100.0	H	142.0	20.4
17878.125000	51.47	---	74.00	22.53	150.0	200.0	H	326.0	20.5

Bluetooth LE-Channel 39



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1037.250000	42.66	---	74.00	31.34	150.0	200.0	V	285.0	-4.8
1177.500000	---	32.73	54.00	21.27	150.0	100.0	V	196.0	-3.7
1379.250000	44.32	---	74.00	29.68	150.0	200.0	H	88.0	-2.3
1433.500000	---	33.63	54.00	20.38	150.0	100.0	H	201.0	-2.0
1709.500000	---	35.10	54.00	18.90	150.0	200.0	H	17.0	-0.2
1728.500000	45.44	---	74.00	28.56	150.0	200.0	V	354.0	-0.1
1893.500000	46.81	---	74.00	27.19	150.0	100.0	H	1.0	1.1
2008.750000	---	36.41	54.00	17.59	150.0	200.0	H	166.0	1.7
2430.250000	47.39	---	74.00	26.61	150.0	200.0	H	13.0	3.4
2436.750000	---	37.93	54.00	16.07	150.0	100.0	H	118.0	3.5
2923.000000	---	39.52	54.00	14.48	150.0	200.0	H	40.0	6.5
2976.500000	49.45	---	74.00	24.55	150.0	200.0	V	341.0	6.8



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3121.875000	38.23	---	74.00	35.77	150.0	100.0	H	349.0	-4.8
3746.250000	---	27.19	54.00	26.81	150.0	200.0	H	206.0	-4.1
5150.625000	---	33.75	54.00	20.25	150.0	100.0	V	84.0	2.5
5160.000000	42.51	---	74.00	31.49	150.0	200.0	H	299.0	2.5
5767.500000	42.77	---	74.00	31.23	150.0	100.0	V	329.0	3.7
5769.375000	---	33.49	54.00	20.51	150.0	100.0	V	98.0	3.7
9148.125000	41.26	---	74.00	32.74	150.0	200.0	H	272.0	5.1
9172.500000	---	32.61	54.00	21.39	150.0	200.0	H	310.0	5.1
13012.500000	---	34.62	54.00	19.38	150.0	100.0	V	0.0	10.9
13029.375000	43.58	---	74.00	30.42	150.0	200.0	V	84.0	11.0
17876.250000	51.29	---	74.00	22.71	150.0	200.0	H	278.0	20.5
17880.000000	---	42.38	54.00	11.62	150.0	200.0	H	0.0	20.5

5.7. Conducted Emission

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

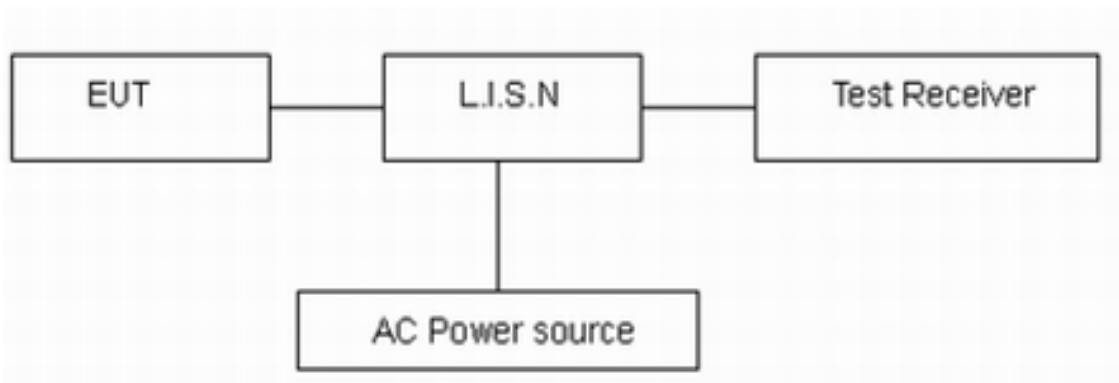
Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz.

The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 120V/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.

Wi-Fi 2.4GHz

During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



EMI Final Results

Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
1	0.276	29.29	60.94	31.64	21.80	50.94	29.14	20.96	L1	9.000	1.000
1	0.535	39.29	56.00	16.71	33.21	46.00	12.79	20.74	L1	9.000	1.000
1	1.313	33.92	56.00	22.08	27.96	46.00	18.04	19.94	L1	9.000	1.000
1	2.666	31.29	56.00	24.71	25.15	46.00	20.85	19.52	L1	9.000	1.000
1	6.772	22.15	60.00	37.85	16.48	50.00	33.52	19.41	L1	9.000	1.000
1	14.582	16.70	60.00	43.30	11.36	50.00	38.64	19.49	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



EMI Final Results

Rg	Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG: CAV Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
1	0.278	31.28	60.87	29.59	16.67	50.87	34.20	20.96	N	9.000	1.000
1	0.521	36.52	56.00	19.48	26.17	46.00	19.83	20.77	N	9.000	1.000
1	1.133	32.34	56.00	23.66	21.30	46.00	24.70	20.07	N	9.000	1.000
1	2.580	29.53	56.00	26.47	17.79	46.00	28.21	19.54	N	9.000	1.000
1	6.011	24.38	60.00	35.62	14.46	50.00	35.54	19.41	N	9.000	1.000
1	14.937	17.35	60.00	42.65	10.72	50.00	39.28	19.53	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

Bluetooth LE

During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.

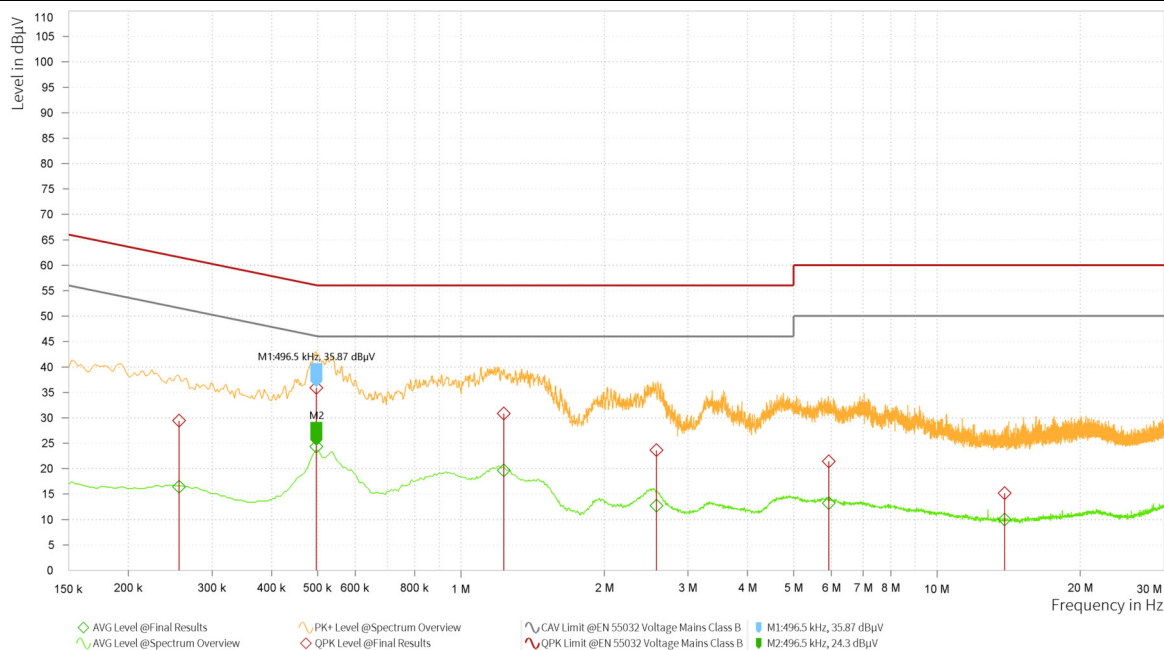


EMI Final Results

Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
1	0.299	27.82	60.28	32.47	22.45	50.28	27.83	20.94	L1	9.000	1.000
1	0.500	39.41	56.00	16.59	33.46	46.00	12.54	20.78	L1	9.000	1.000
1	1.070	31.88	56.00	24.12	26.53	46.00	19.47	20.11	L1	9.000	1.000
1	2.186	29.52	56.00	26.48	23.89	46.00	22.11	19.60	L1	9.000	1.000
1	3.930	23.78	56.00	32.22	16.03	46.00	29.97	19.43	L1	9.000	1.000
1	8.237	18.60	60.00	41.40	12.91	50.00	37.09	19.41	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



EMI Final Results

Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
1	0.256	29.41	61.57	32.16	16.39	51.57	35.18	20.98	N	9.000	1.000
1	0.497	35.87	56.06	20.19	24.30	46.06	21.76	20.79	N	9.000	1.000
1	1.230	30.82	56.00	25.18	19.63	46.00	26.37	20.01	N	9.000	1.000
1	2.573	23.60	56.00	32.40	12.72	46.00	33.28	19.54	N	9.000	1.000
1	5.921	21.42	60.00	38.58	13.22	50.00	36.78	19.41	N	9.000	1.000
1	13.864	15.19	60.00	44.81	9.96	50.00	40.04	19.50	N	9.000	1.000

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
Power sensor	R&S	NRP18S	101954	2024-05-07	2025-05-06
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2024-05-07	2025-05-06
EMI Test Receiver	R&S	ESCI3	100948	2024-05-07	2025-05-06
Signal Analyzer	R&S	FSV40	101186	2024-05-07	2025-05-06
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23
Amplifier	MWPA.CN	MWLA-010200G40	YQ2103039B01	2024-05-07	2025-05-06
Software	R&S	EMC32	9.26.01	/	/
EMI Test Receiver	R&S	ESR	102721	2024-05-07	2025-05-06
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	01615	2023-10-19	2026-10-18
Signal Analyzer	R&S	FSV3044	103495	2024-05-07	2025-05-06
Horn Antenna	R&S	HF907	102724	2024-7-23	2027-7-22
Software	R&S	ELEKTRA	5.02.1	/	/
Artificial main network	R&S	ENV216	102191	2024-12-02	2026-12-01
EMI Test Receiver	R&S	ESR	101667	2024-05-07	2025-05-06
Software	R&S	EMC32	10.35.10	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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