

Prüfbericht - Nr.: CN25SA2P 001

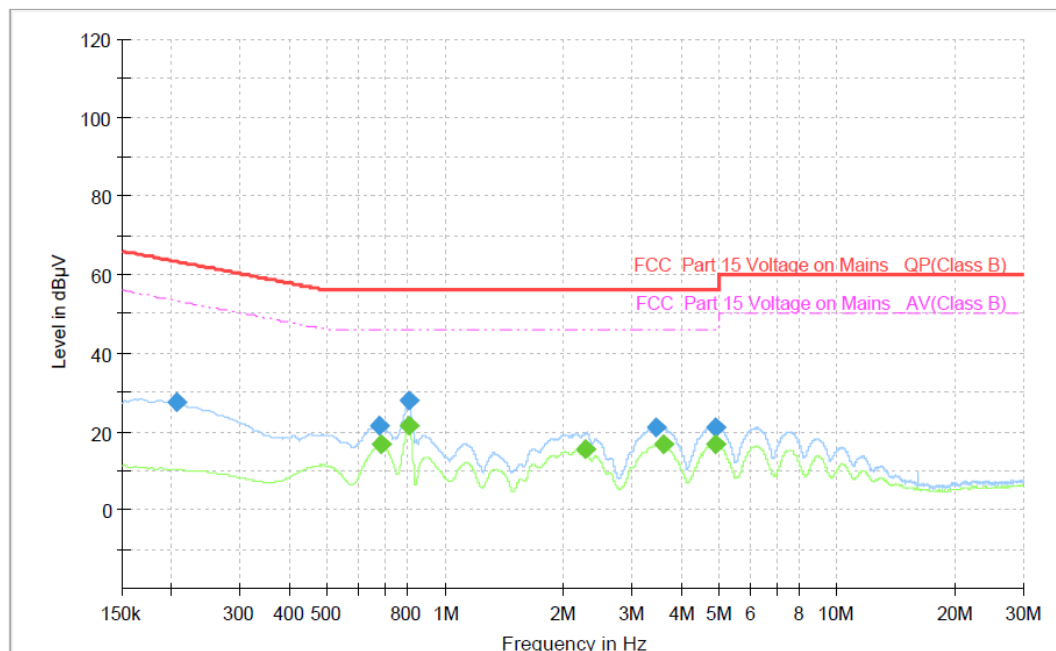
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Figure 5: Spectral Diagrams, Conducted Emission, 150KHz - 30MHz, N

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.206250	27.47	---	63.36	35.89	1000.0	9.000	N	ON	9.6
0.674250	21.43	---	56.00	34.57	1000.0	9.000	N	ON	9.6
0.683250	---	17.03	46.00	28.97	1000.0	9.000	N	ON	9.6
0.804750	27.78	---	56.00	28.22	1000.0	9.000	N	ON	9.7
0.807000	---	21.39	46.00	24.61	1000.0	9.000	N	ON	9.7
2.274000	---	15.44	46.00	30.56	1000.0	9.000	N	ON	9.7
3.448500	21.00	---	56.00	35.00	1000.0	9.000	N	ON	9.8
3.597000	---	16.77	46.00	29.23	1000.0	9.000	N	ON	9.8
4.897500	---	16.79	46.00	29.21	1000.0	9.000	N	ON	9.8
4.908750	21.29	---	56.00	34.71	1000.0	9.000	N	ON	9.8

4.1.7 Radiated Emission

Result:

Pass

Test Specification

Test standard : FCC Part 15.209(a)

Basic standard : ANSI C63.10: 2020, Clause 11.12

Port : Enclosure

Frequency range : 30MHz-10th Harmonic for intentional radiator

Limits : FCC Part 15.205(a)

FCC Part 15.209(a)

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2025.06.05

Input voltage : DC 5.0V

Operational mode : A, B

Temperature : 22°C

Relative humidity : 58%

Atmospheric pressure : 101.2 kPa

The result of Emissions in Restricted Bands:

The conducted measurement result in graph has considered the antenna gain.

The limit in dBm for average detector is conversion from 54dBuV/m using the following formula. The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

$$E = EIRP - 20 \log d + 104.8$$

Where

E is the electric field strength in dBuV/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

The result of Radiated Spurious Emission:

The radiated measurement result is calculated based on the following formula by the test software: Emission Level = Reading level + Correction (Antenna factor + Cable loss Preamplifier)

Remark: All the modes had been tested, but only the worst data was recorded in the report.

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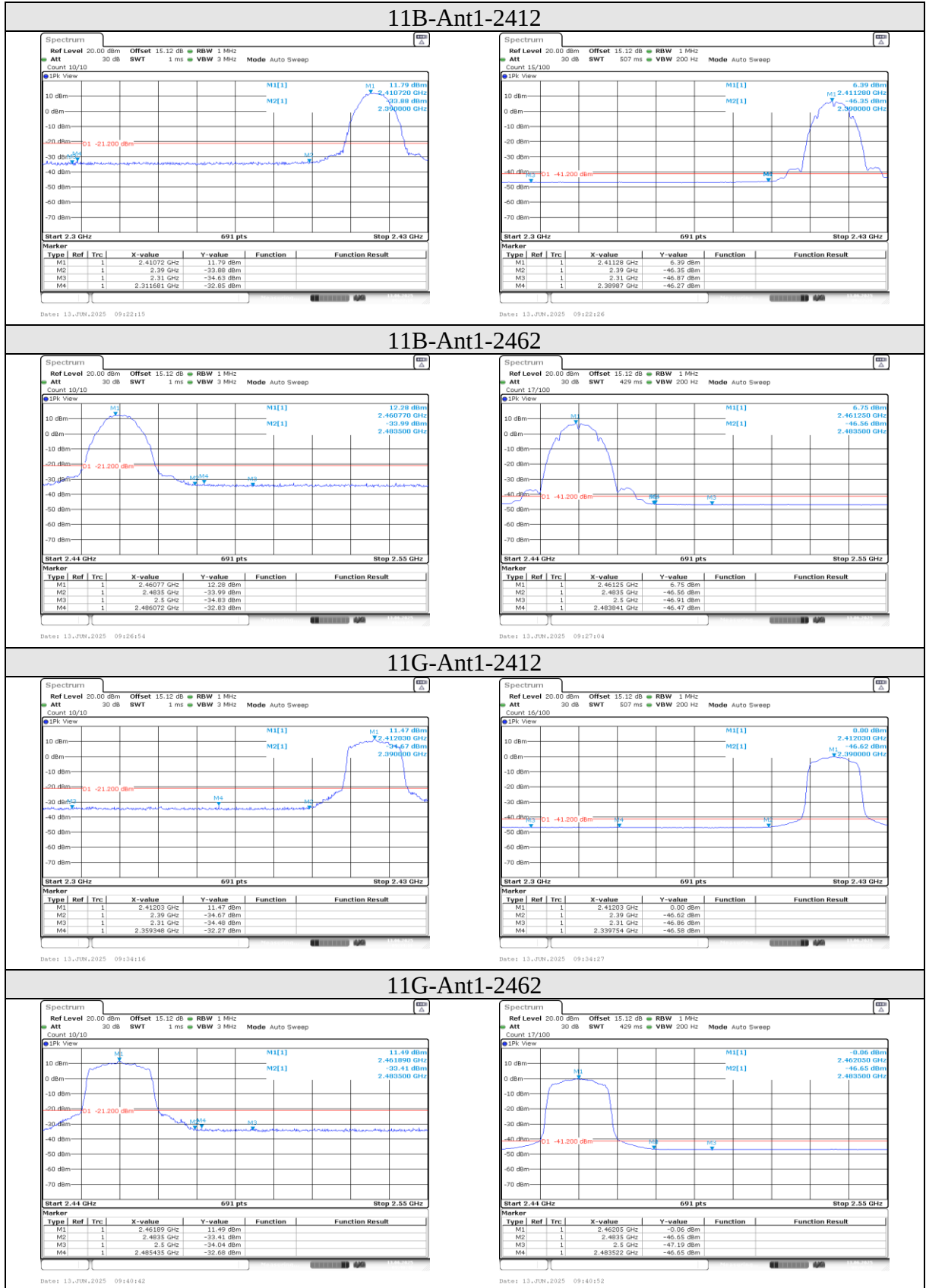
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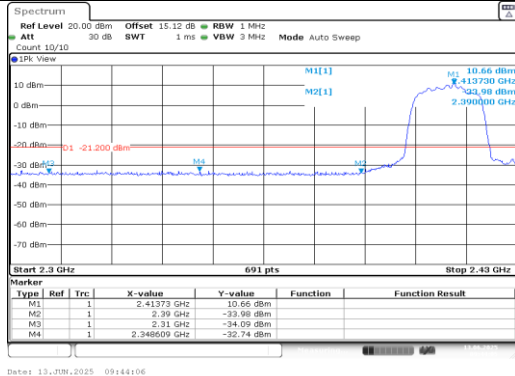
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Table 12: Test result of Emissions in Restricted Bands

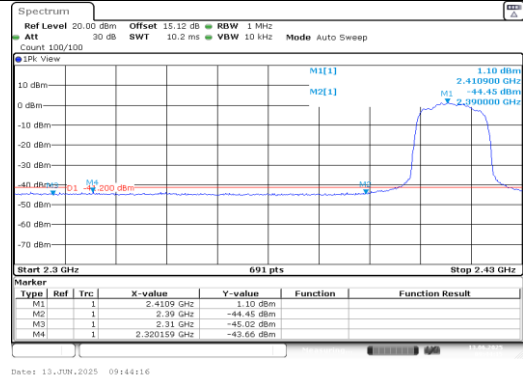
Test Mode	Freq. [MHz]	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	2412	Peak	2390.000	-33.88	≤-21.20	61.32	≤74	PASS
11B	2412	Peak	2310.000	-34.63	≤-21.20	60.57	≤74	PASS
11B	2412	Peak	2311.681	-32.85	≤-21.20	62.35	≤74	PASS
11B	2412	AV	2390.000	-46.35	≤-41.20	48.85	≤54	PASS
11B	2412	AV	2310.000	-46.87	≤-41.20	48.33	≤54	PASS
11B	2412	AV	2389.870	-46.27	≤-41.20	48.93	≤54	PASS
11B	2462	Peak	2483.500	-33.99	≤-21.20	61.21	≤74	PASS
11B	2462	Peak	2500.000	-34.83	≤-21.20	60.37	≤74	PASS
11B	2462	Peak	2486.072	-32.83	≤-21.20	62.37	≤74	PASS
11B	2462	AV	2483.500	-46.56	≤-41.20	48.64	≤54	PASS
11B	2462	AV	2500.000	-46.91	≤-41.20	48.29	≤54	PASS
11B	2462	AV	2483.841	-46.47	≤-41.20	48.73	≤54	PASS
11G	2412	Peak	2390.000	-34.67	≤-21.20	60.53	≤74	PASS
11G	2412	Peak	2310.000	-34.48	≤-21.20	60.72	≤74	PASS
11G	2412	Peak	2359.348	-32.27	≤-21.20	62.93	≤74	PASS
11G	2412	AV	2390.000	-46.62	≤-41.20	48.58	≤54	PASS
11G	2412	AV	2310.000	-46.86	≤-41.20	48.34	≤54	PASS
11G	2412	AV	2339.754	-46.58	≤-41.20	48.62	≤54	PASS
11G	2462	Peak	2483.500	-33.41	≤-21.20	61.79	≤74	PASS
11G	2462	Peak	2500.000	-34.04	≤-21.20	61.16	≤74	PASS
11G	2462	Peak	2485.435	-32.68	≤-21.20	62.52	≤74	PASS
11G	2462	AV	2483.500	-46.65	≤-41.20	48.55	≤54	PASS
11G	2462	AV	2500.000	-47.19	≤-41.20	48.01	≤54	PASS
11G	2462	AV	2483.522	-46.65	≤-41.20	48.55	≤54	PASS
11N20	2412	Peak	2390.000	-33.98	≤-21.20	61.22	≤74	PASS
11N20	2412	Peak	2310.000	-34.09	≤-21.20	61.11	≤74	PASS
11N20	2412	Peak	2348.609	-32.74	≤-21.20	62.46	≤74	PASS
11N20	2412	AV	2390.000	-44.45	≤-41.20	50.75	≤54	PASS
11N20	2412	AV	2310.000	-45.02	≤-41.20	50.18	≤54	PASS
11N20	2412	AV	2320.159	-43.66	≤-41.20	51.54	≤54	PASS
11N20	2462	Peak	2483.500	-32.99	≤-21.20	62.21	≤74	PASS
11N20	2462	Peak	2500.000	-33.88	≤-21.20	61.32	≤74	PASS
11N20	2462	Peak	2484.000	-32.7	≤-21.20	62.50	≤74	PASS
11N20	2462	AV	2483.500	-44.41	≤-41.20	50.79	≤54	PASS
11N20	2462	AV	2500.000	-45.09	≤-41.20	50.11	≤54	PASS
11N20	2462	AV	2483.681	-44.07	≤-41.20	51.13	≤54	PASS
BLE_1M	2402	Peak	2390.000	-32.29	≤-21.20	62.91	≤74	PASS
BLE_1M	2402	Peak	2310.000	-35.5	≤-21.20	59.70	≤74	PASS
BLE_1M	2402	Peak	2389.935	-31.85	≤-21.20	63.35	≤74	PASS
BLE_1M	2402	AV	2390.000	-45.7	≤-41.20	49.50	≤54	PASS
BLE_1M	2402	AV	2310.000	-47.73	≤-41.20	47.47	≤54	PASS
BLE_1M	2402	AV	2389.935	-45.71	≤-41.20	49.49	≤54	PASS
BLE_1M	2480	Peak	2483.500	-32.22	≤-21.20	62.98	≤74	PASS
BLE_1M	2480	Peak	2500.000	-34.31	≤-21.20	60.89	≤74	PASS
BLE_1M	2480	Peak	2489.478	-31.29	≤-21.20	63.91	≤74	PASS
BLE_1M	2480	AV	2483.500	-45.6	≤-41.20	49.60	≤54	PASS
BLE_1M	2480	AV	2500.000	-47.27	≤-41.20	47.93	≤54	PASS
BLE_1M	2480	AV	2489.014	-45.01	≤-41.20	50.19	≤54	PASS

Figure 6: Emissions in Restricted Bands

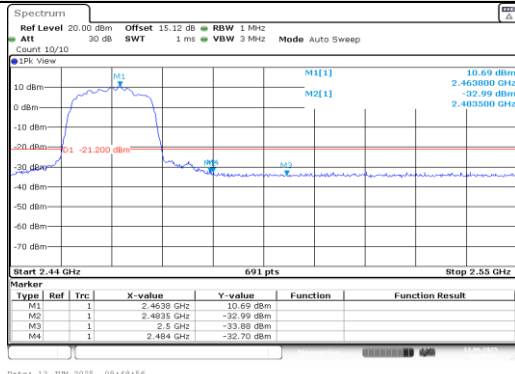


11N20-Ant1-2412


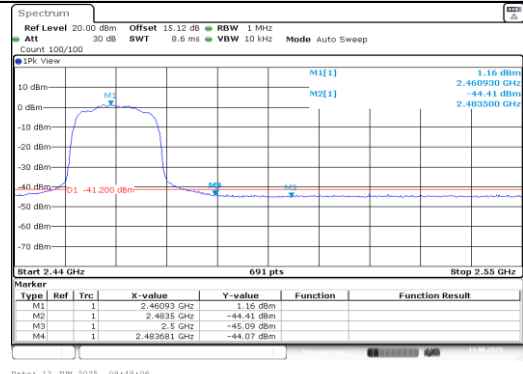
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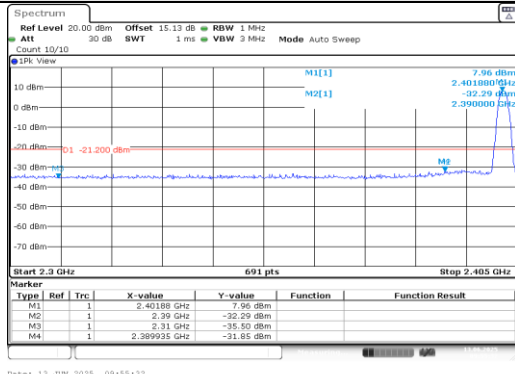
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11N20-Ant1-2462


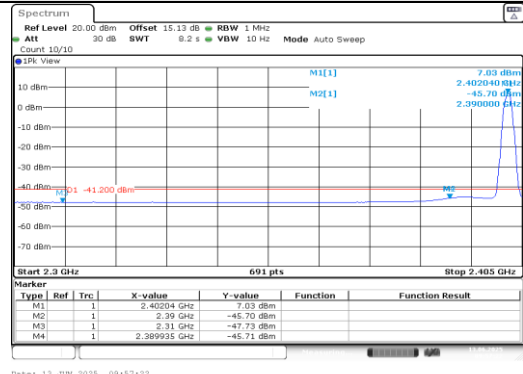
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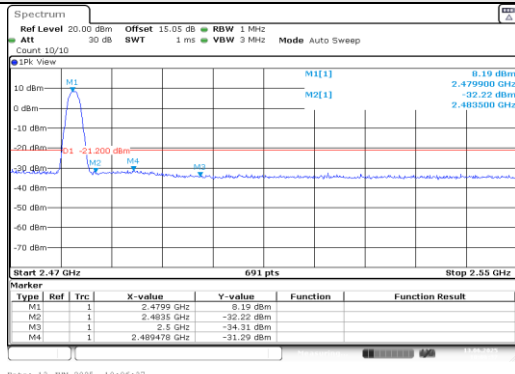
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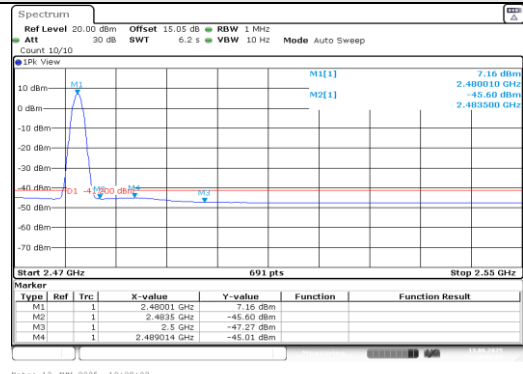
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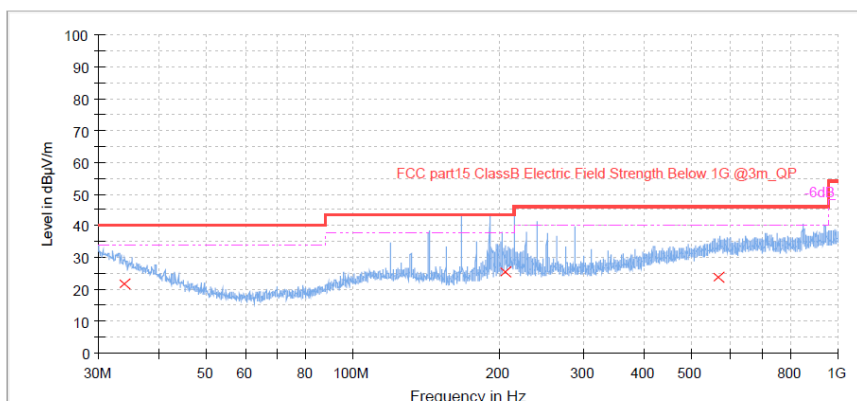
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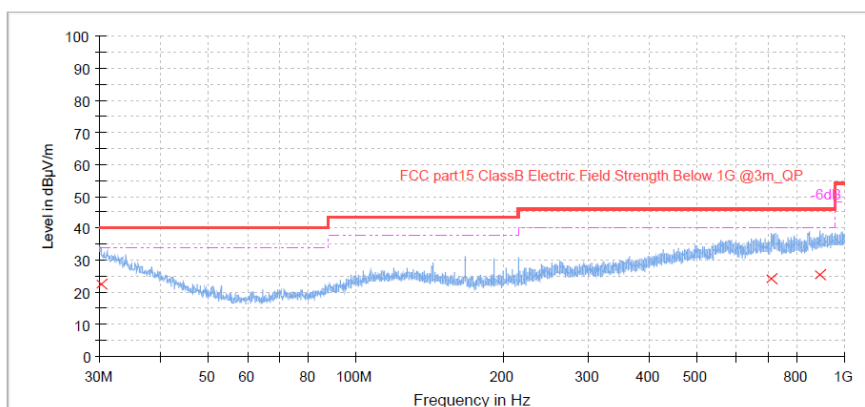
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Date: 13_JUN,2025 10:06:37

Figure 7: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal, 802.11B 2412MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
33.990000	21.9	1000.0	120.000	100.0	H	11.0	23.1	18.1	40.0
206.920000	25.4	1000.0	120.000	100.0	H	11.0	16.5	18.1	43.5
568.670000	24.0	1000.0	120.000	100.0	H	11.0	27.2	22.0	46.0

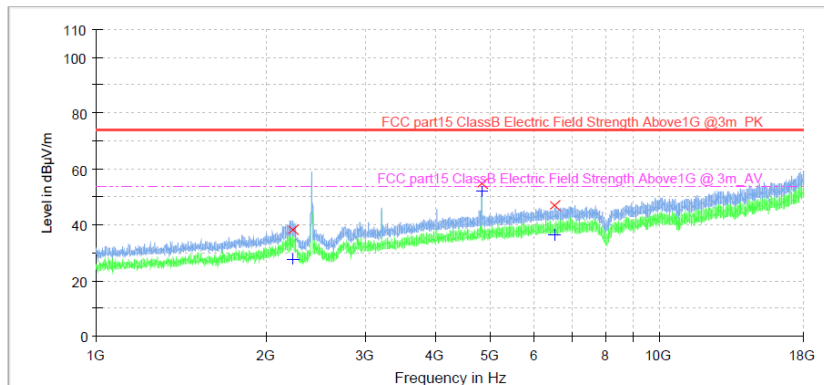
Figure 8: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical, 802.11B 2412MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.110000	22.5	1000.0	120.000	100.0	V	11.0	25.4	17.5	40.0
709.700000	24.2	1000.0	120.000	100.0	V	11.0	26.9	21.8	46.0
889.200000	25.7	1000.0	120.000	100.0	V	11.0	29.4	20.3	46.0

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Figure 9: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Horizontal, 802.11B 2412MHz



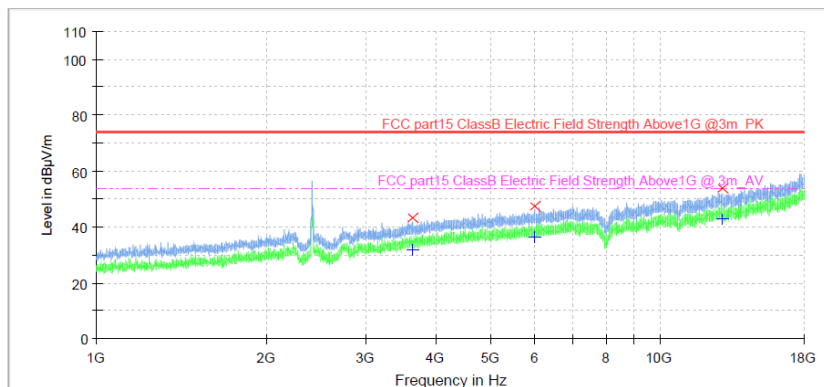
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
2235.155000	38.3	1000.0	1000.000	150.0	H	0.0	-5.8	35.7	74.0
4823.935000	54.6	1000.0	1000.000	150.0	H	0.0	3.8	19.4	74.0
6512.780000	47.0	1000.0	1000.000	150.0	H	0.0	7.6	27.0	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
2235.155000	27.7	1000.0	1000.000	150.0	H	0.0	-5.8	26.3	54.0
4823.935000	51.8	1000.0	1000.000	150.0	H	0.0	3.8	2.2	54.0
6512.780000	36.5	1000.0	1000.000	150.0	H	0.0	7.6	17.5	54.0

Figure 10: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Vertical, 802.11B 2412MHz

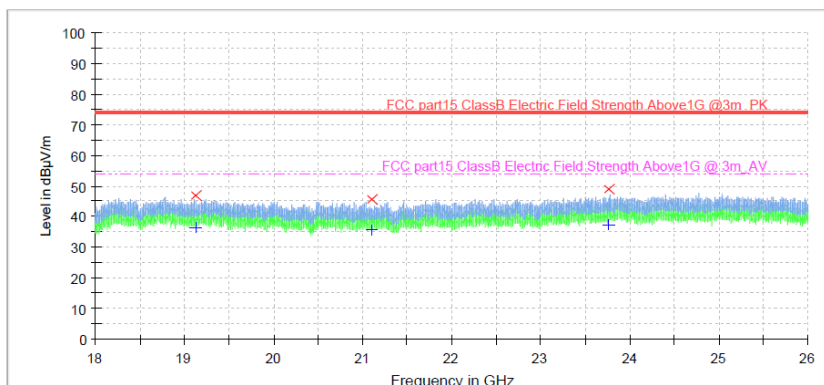


Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
3645.095000	43.1	1000.0	1000.000	150.0	V	0.0	0.7	31.0	74.0
5989.500000	47.5	1000.0	1000.000	150.0	V	0.0	6.7	26.5	74.0
12884.060000	53.6	1000.0	1000.000	150.0	V	0.0	15.0	20.4	74.0

Limit and Margin-AV

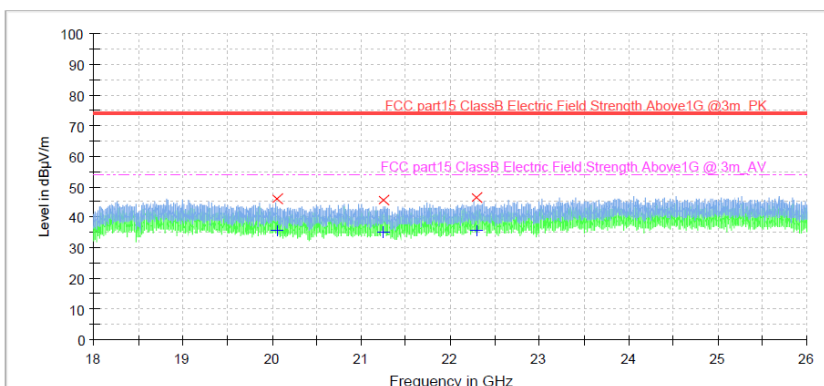
Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
3645.095000	31.9	1000.0	1000.000	150.0	V	0.0	0.7	22.1	54.0
5989.500000	36.5	1000.0	1000.000	150.0	V	0.0	6.7	17.5	54.0
12884.060000	42.6	1000.0	1000.000	150.0	V	0.0	15.0	11.4	54.0

Figure 11: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Horizontal, 802.11B 2412MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19124.750000	47.0	1000.0	1000.000	150.0	H	0.0	-9.2	27.1	74.0
21101.000000	45.5	1000.0	1000.000	150.0	H	0.0	-8.7	28.5	74.0
23769.750000	48.8	1000.0	1000.000	150.0	H	0.0	-4.6	25.2	74.0

Limit and Margin-AV

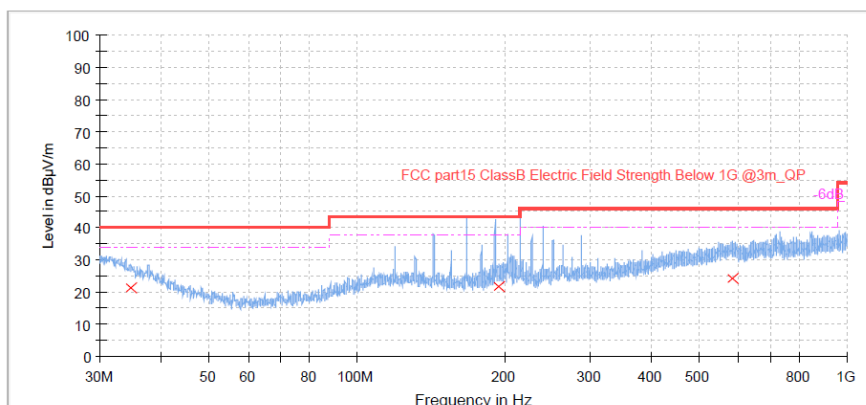
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19124.750000	36.3	1000.0	1000.000	150.0	H	0.0	-9.2	17.7	54.0
21101.000000	35.5	1000.0	1000.000	150.0	H	0.0	-8.7	18.6	54.0
23769.750000	37.4	1000.0	1000.000	150.0	H	0.0	-4.6	16.6	54.0

Figure 12: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Vertical, 802.11B 2412MHz

Limit and Margin-PK

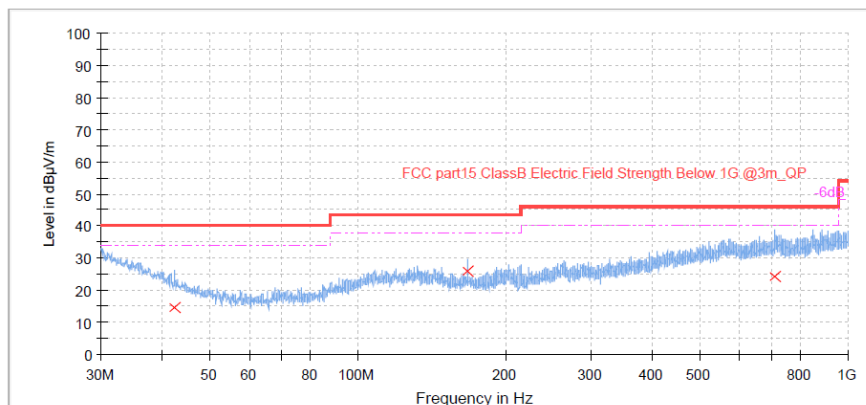
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
20054.500000	46.0	1000.0	1000.000	150.0	V	0.0	-9.2	28.0	74.0
21247.750000	45.4	1000.0	1000.000	150.0	V	0.0	-8.5	28.6	74.0
22294.750000	46.3	1000.0	1000.000	150.0	V	0.0	-6.7	27.7	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20054.500000	35.5	1000.0	1000.000	150.0	V	0.0	-9.2	18.5	54.0
21247.750000	35.1	1000.0	1000.000	150.0	V	0.0	-8.5	18.9	54.0
22294.750000	35.8	1000.0	1000.000	150.0	V	0.0	-6.7	18.2	54.0

Figure 13: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal, 802.11B 2437MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
34.740000	21.4	1000.0	120.000	100.0	H	11.0	22.7	18.6	40.0
195.220000	21.7	1000.0	120.000	100.0	H	11.0	16.2	21.8	43.5
584.890000	24.2	1000.0	120.000	100.0	H	11.0	27.0	21.8	46.0

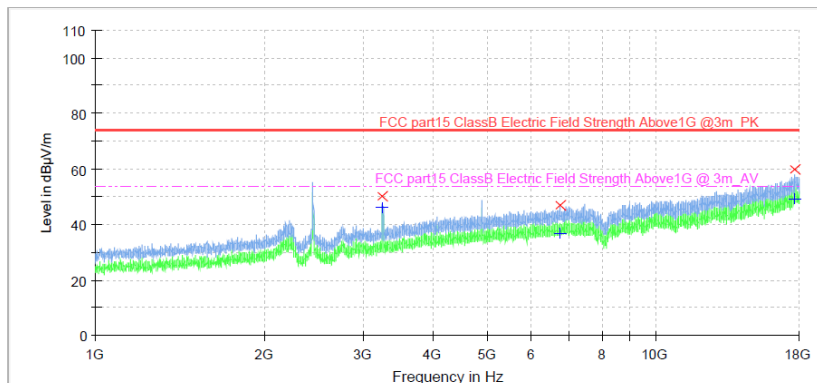
Figure 14: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical, 802.11B 2437MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
42.340000	14.7	1000.0	120.000	100.0	V	11.0	18.5	25.3	40.0
167.740000	26.1	1000.0	120.000	100.0	V	11.0	16.7	17.4	43.5
709.920000	24.2	1000.0	120.000	100.0	V	11.0	26.9	21.9	46.0

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Figure 15: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Horizontal, 802.11B 2437MHz



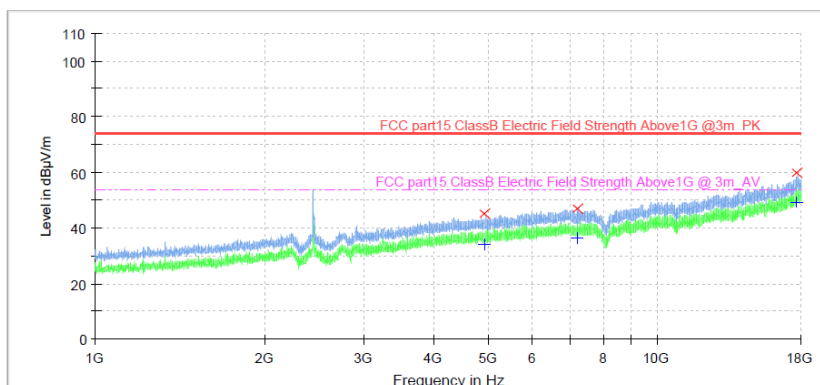
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3255.685000	50.0	1000.0	1000.000	150.0	H	0.0	-0.5	24.0	74.0
6734.845000	47.1	1000.0	1000.000	150.0	H	0.0	7.9	26.9	74.0
17732.250000	60.0	1000.0	1000.000	150.0	H	0.0	23.1	14.0	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3255.685000	46.2	1000.0	1000.000	150.0	H	0.0	-0.5	7.8	54.0
6734.845000	36.6	1000.0	1000.000	150.0	H	0.0	7.9	17.4	54.0
17732.250000	49.4	1000.0	1000.000	150.0	H	0.0	23.1	4.6	54.0

Figure 16: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Vertical, 802.11B 2437MHz

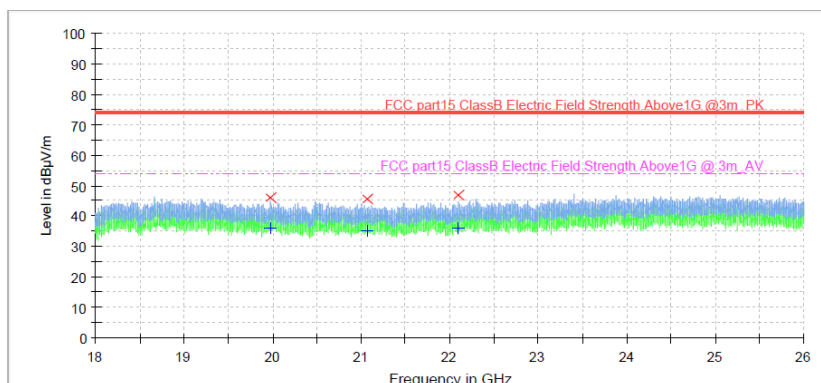


Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4922.750000	45.0	1000.0	1000.000	150.0	V	0.0	4.1	29.0	74.0
7183.750000	47.0	1000.0	1000.000	150.0	V	0.0	8.4	27.0	74.0
17728.000000	59.9	1000.0	1000.000	150.0	V	0.0	23.1	14.1	74.0

Limit and Margin-AV

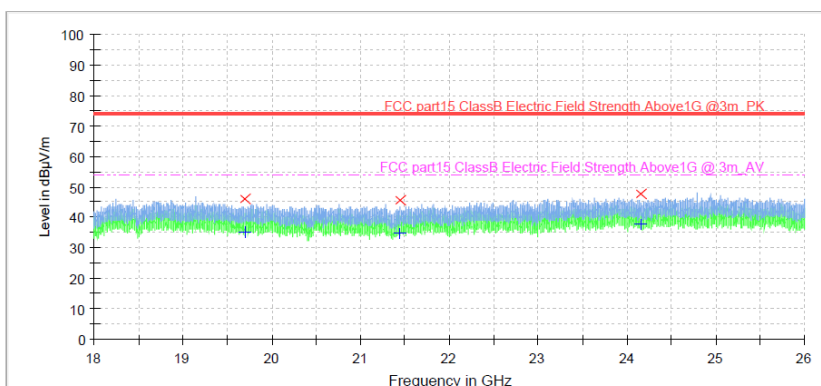
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4922.750000	33.9	1000.0	1000.000	150.0	V	0.0	4.1	20.2	54.0
7183.750000	36.4	1000.0	1000.000	150.0	V	0.0	8.4	17.6	54.0
17728.000000	49.3	1000.0	1000.000	150.0	V	0.0	23.1	4.7	54.0

Figure 17: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Horizontal, 802.11B 2437MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19983.250000	46.2	1000.0	1000.000	150.0	H	0.0	-9.2	27.8	74.0
21069.000000	45.6	1000.0	1000.000	150.0	H	0.0	-8.8	28.4	74.0
22091.250000	46.8	1000.0	1000.000	150.0	H	0.0	-7.1	27.2	74.0

Limit and Margin-AV

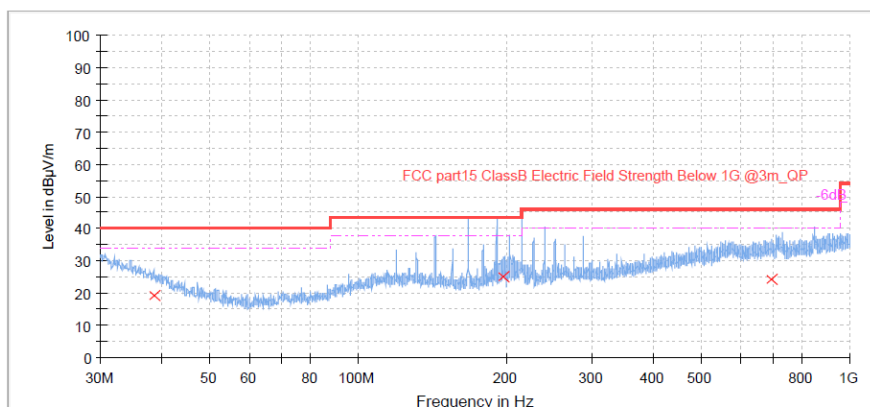
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19983.250000	36.0	1000.0	1000.000	150.0	H	0.0	-9.2	18.1	54.0
21069.000000	35.1	1000.0	1000.000	150.0	H	0.0	-8.8	18.9	54.0
22091.250000	35.8	1000.0	1000.000	150.0	H	0.0	-7.1	18.2	54.0

Figure 18: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Vertical, 802.11B 2437MHz

Limit and Margin-PK

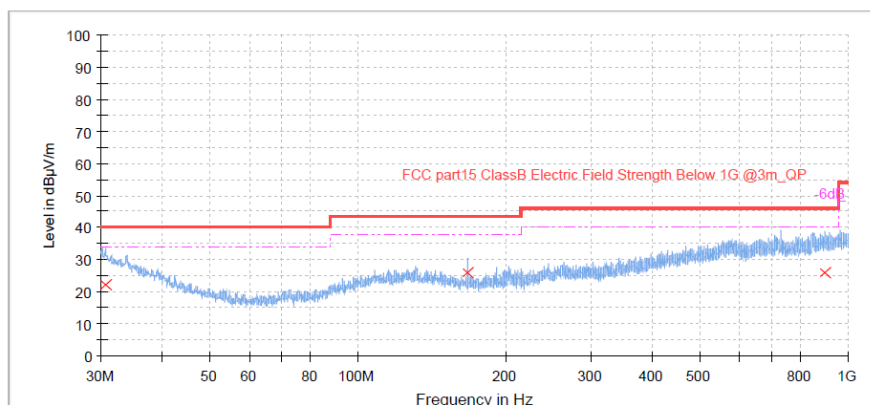
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19702.500000	46.0	1000.0	1000.000	150.0	V	0.0	-9.3	28.0	74.0
21450.500000	45.5	1000.0	1000.000	150.0	V	0.0	-8.1	28.5	74.0
24152.500000	47.8	1000.0	1000.000	150.0	V	0.0	-4.5	26.2	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19702.500000	35.1	1000.0	1000.000	150.0	V	0.0	-9.3	18.9	54.0
21450.500000	34.8	1000.0	1000.000	150.0	V	0.0	-8.1	19.2	54.0
24152.500000	37.5	1000.0	1000.000	150.0	V	0.0	-4.5	16.5	54.0

Figure 19: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal, 802.11B 2462MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
38.460000	19.3	1000.0	120.000	100.0	H	11.0	20.7	20.7	40.0
197.490000	24.9	1000.0	120.000	100.0	H	11.0	16.3	18.6	43.5
694.450000	24.1	1000.0	120.000	100.0	H	11.0	27.0	21.9	46.0

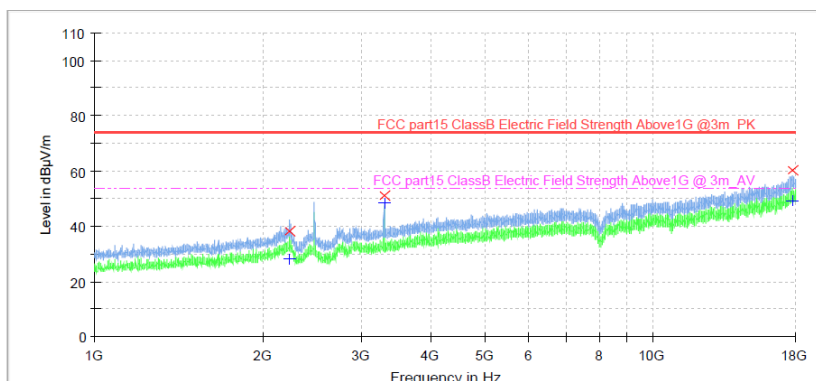
Figure 20: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical, 802.11B 2462MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.590000	22.2	1000.0	120.000	100.0	V	11.0	25.1	17.8	40.0
167.790000	26.0	1000.0	120.000	100.0	V	11.0	16.7	17.5	43.5
896.160000	25.8	1000.0	120.000	100.0	V	11.0	29.7	20.2	46.0

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Figure 21: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Horizontal, 802.11B 2462MHz



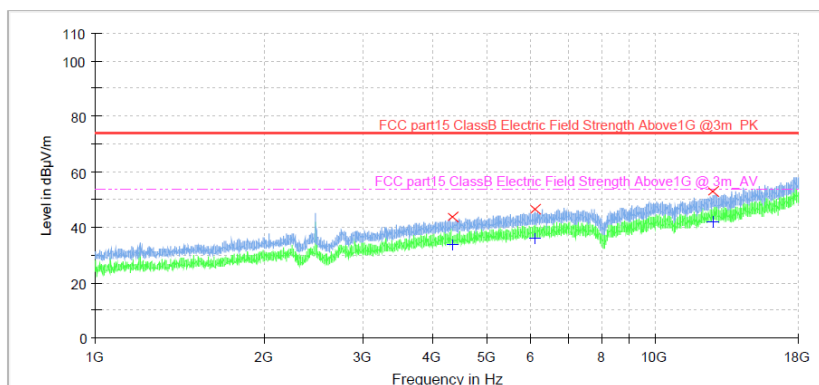
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
2229.845000	38.4	1000.0	1000.000	150.0	H	0.0	-5.8	35.6	74.0
3296.060000	50.9	1000.0	1000.000	150.0	H	0.0	-0.4	23.1	74.0
17771.030000	60.3	1000.0	1000.000	150.0	H	0.0	23.3	13.7	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
2229.845000	28.1	1000.0	1000.000	150.0	H	0.0	-5.8	25.9	54.0
3296.060000	48.2	1000.0	1000.000	150.0	H	0.0	-0.4	5.8	54.0
17771.030000	49.4	1000.0	1000.000	150.0	H	0.0	23.3	4.6	54.0

Figure 22: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Vertical, 802.11B 2462MHz



Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
4350.060000	43.9	1000.0	1000.000	150.0	V	0.0	2.5	30.2	74.0
6114.345000	46.5	1000.0	1000.000	150.0	V	0.0	6.9	27.5	74.0
12674.220000	53.0	1000.0	1000.000	150.0	V	0.0	14.7	21.0	74.0

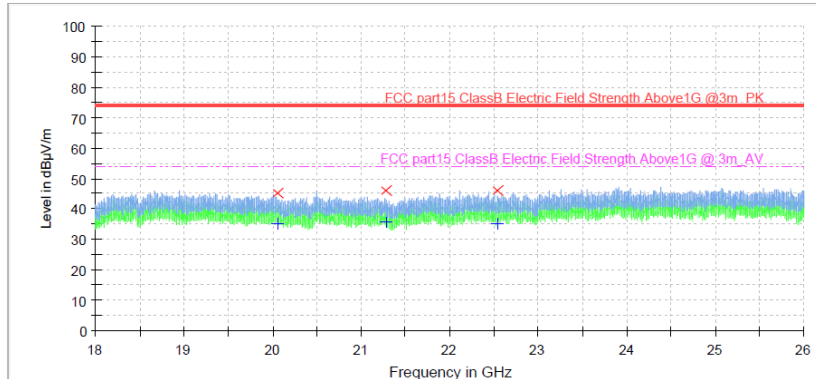
Limit and Margin-AV

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
4350.060000	33.5	1000.0	1000.000	150.0	V	0.0	2.5	20.5	54.0
6114.345000	35.7	1000.0	1000.000	150.0	V	0.0	6.9	18.3	54.0
12674.220000	41.7	1000.0	1000.000	150.0	V	0.0	14.7	12.3	54.0

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Figure 23: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Horizontal, 802.11B 2462MHz



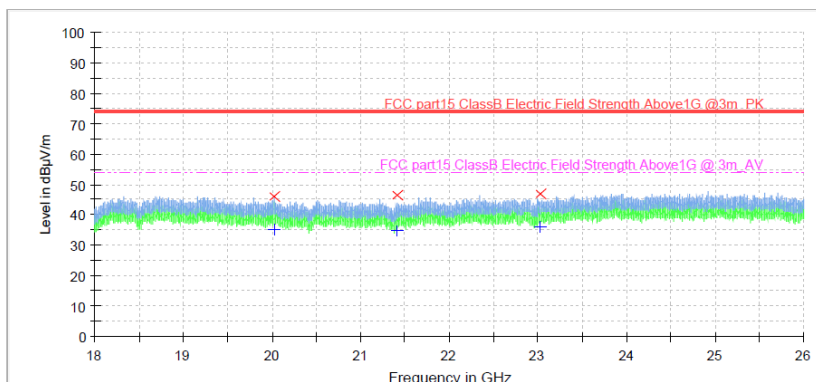
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
20056.000000	45.4	1000.0	1000.000	150.0	H	0.0	-9.2	28.6	74.0
21286.000000	46.2	1000.0	1000.000	150.0	H	0.0	-8.4	27.8	74.0
22531.250000	45.9	1000.0	1000.000	150.0	H	0.0	-6.2	28.1	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20056.000000	35.3	1000.0	1000.000	150.0	H	0.0	-9.2	18.7	54.0
21286.000000	35.4	1000.0	1000.000	150.0	H	0.0	-8.4	18.6	54.0
22531.250000	35.1	1000.0	1000.000	150.0	H	0.0	-6.2	18.9	54.0

Figure 24: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Vertical, 802.11B 2462MHz

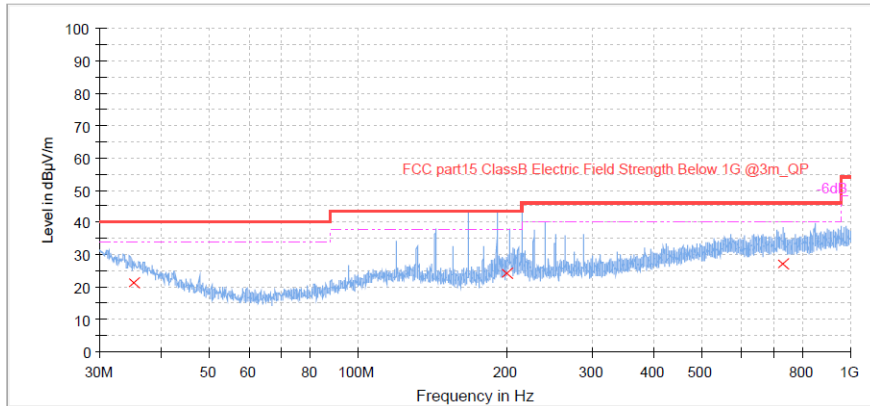


Limit and Margin-PK

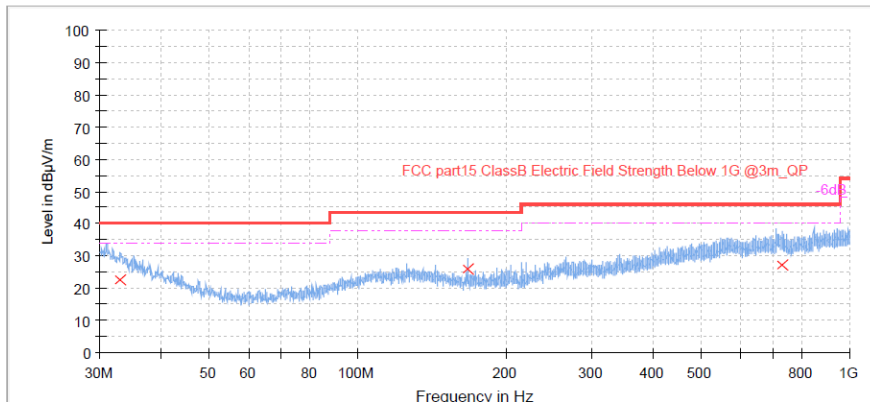
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
20032.500000	46.0	1000.0	1000.000	150.0	V	0.0	-9.2	28.0	74.0
21418.250000	46.4	1000.0	1000.000	150.0	V	0.0	-8.2	27.6	74.0
23028.500000	46.7	1000.0	1000.000	150.0	V	0.0	-5.0	27.3	74.0

Limit and Margin-AV

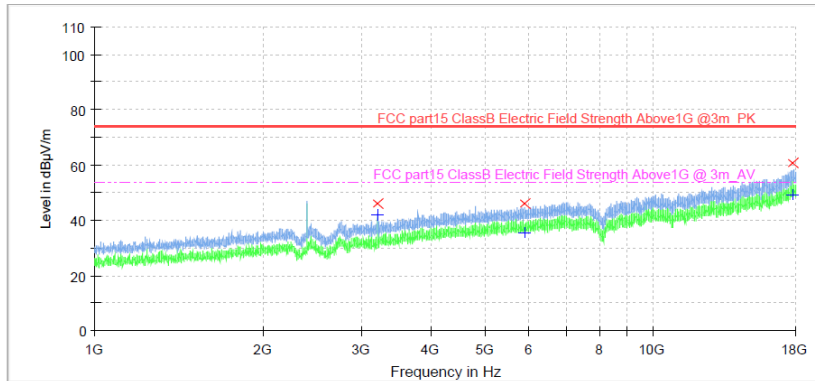
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20032.500000	35.2	1000.0	1000.000	150.0	V	0.0	-9.2	18.8	54.0
21418.250000	34.8	1000.0	1000.000	150.0	V	0.0	-8.2	19.2	54.0
23028.500000	36.2	1000.0	1000.000	150.0	V	0.0	-5.0	17.8	54.0

Figure 25: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal, BLE 1M 2402MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
35.120000	21.3	1000.0	120.000	100.0	H	11.0	22.5	18.7	40.0
200.340000	24.2	1000.0	120.000	100.0	H	11.0	16.4	19.3	43.5
729.910000	27.2	1000.0	120.000	100.0	H	11.0	27.4	18.9	46.0

Figure 26: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical, BLE 1M 2402MHz

Limit and Margin

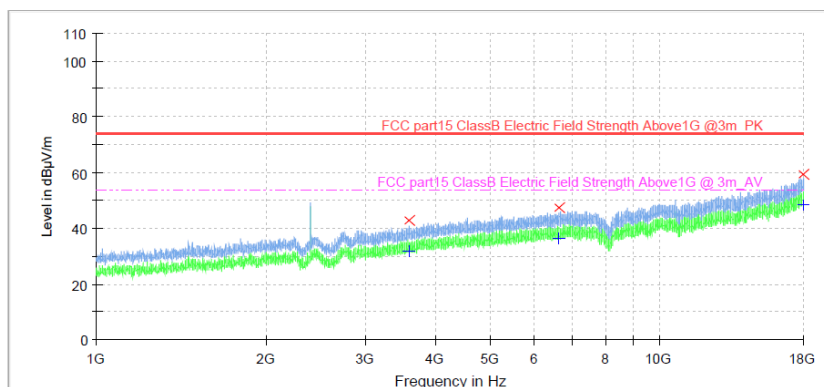
Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
33.020000	22.7	1000.0	120.000	100.0	V	11.0	23.7	17.3	40.0
167.900000	25.8	1000.0	120.000	100.0	V	11.0	16.7	17.7	43.5
728.620000	27.1	1000.0	120.000	100.0	V	11.0	27.4	19.0	46.0

Figure 27: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Horizontal, BLE 1M 2402MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3202.560000	46.1	1000.0	1000.000	150.0	H	0.0	-0.7	27.9	74.0
5900.780000	46.0	1000.0	1000.000	150.0	H	0.0	6.6	28.0	74.0
17775.280000	60.7	1000.0	1000.000	150.0	H	0.0	23.3	13.3	74.0

Limit and Margin-AV

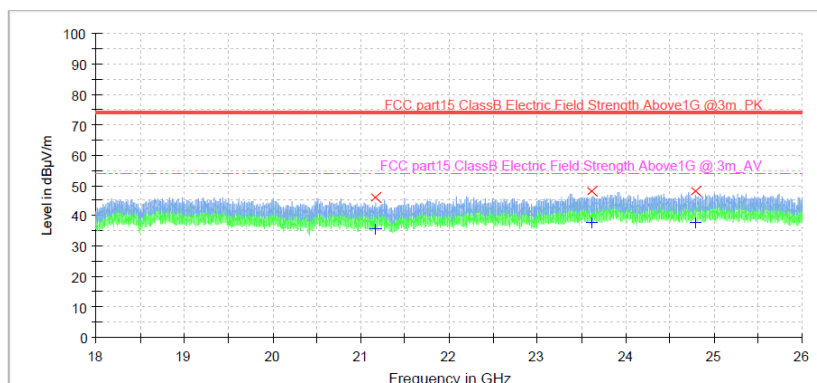
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3202.560000	41.8	1000.0	1000.000	150.0	H	0.0	-0.7	12.2	54.0
5900.780000	35.3	1000.0	1000.000	150.0	H	0.0	6.6	18.7	54.0
17775.280000	49.1	1000.0	1000.000	150.0	H	0.0	23.3	4.9	54.0

Figure 28: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Vertical, BLE 1M 2402MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3588.780000	42.6	1000.0	1000.000	150.0	V	0.0	0.6	31.4	74.0
6644.000000	47.3	1000.0	1000.000	150.0	V	0.0	7.8	26.7	74.0
17979.280000	59.3	1000.0	1000.000	150.0	V	0.0	24.1	14.7	74.0

Limit and Margin-AV

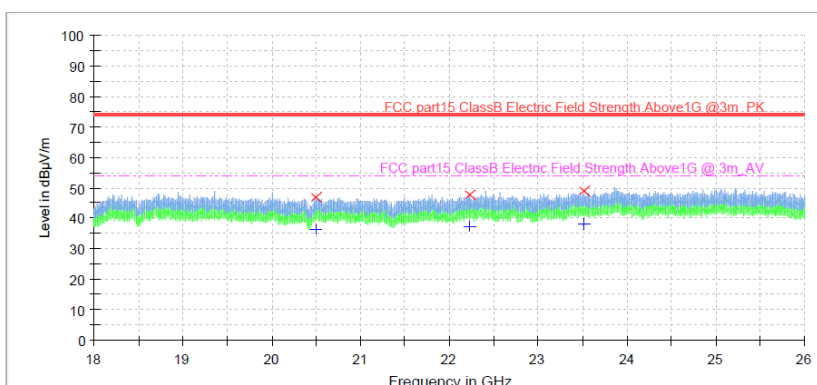
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3588.780000	31.8	1000.0	1000.000	150.0	V	0.0	0.6	22.2	54.0
6644.000000	36.4	1000.0	1000.000	150.0	V	0.0	7.8	17.6	54.0
17979.280000	48.3	1000.0	1000.000	150.0	V	0.0	24.1	5.7	54.0

Figure 29: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Horizontal, BLE 1M 2402MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
21168.500000	45.8	1000.0	1000.000	150.0	H	0.0	-8.6	28.2	74.0
23623.250000	48.2	1000.0	1000.000	150.0	H	0.0	-4.6	25.8	74.0
24785.250000	48.0	1000.0	1000.000	150.0	H	0.0	-4.4	26.0	74.0

Limit and Margin-AV

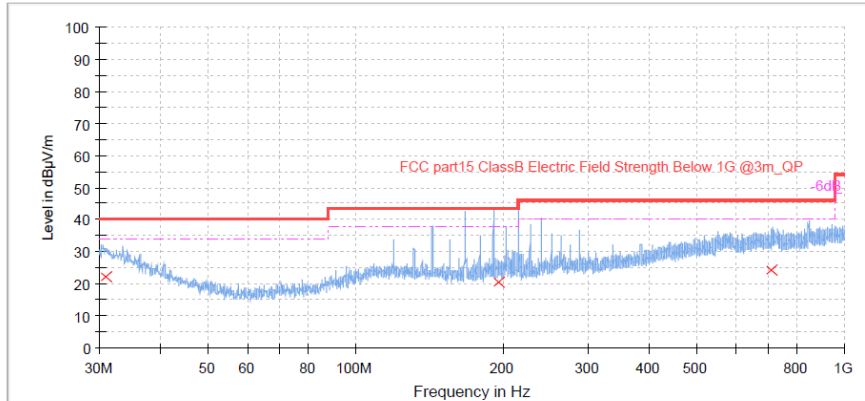
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
21168.500000	35.7	1000.0	1000.000	150.0	H	0.0	-8.6	18.4	54.0
23623.250000	37.6	1000.0	1000.000	150.0	H	0.0	-4.6	16.4	54.0
24785.250000	37.7	1000.0	1000.000	150.0	H	0.0	-4.4	16.3	54.0

Figure 30: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Vertical, BLE 1M 2402MHz

Limit and Margin-PK

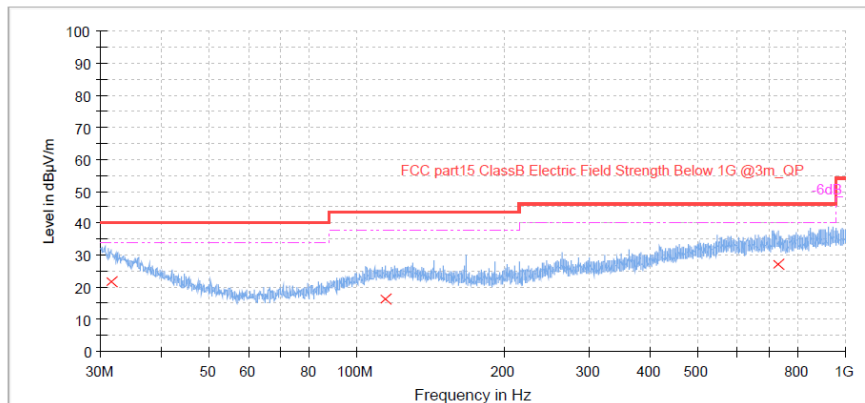
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
20499.750000	46.9	1000.0	1000.000	150.0	V	0.0	-9.1	27.1	74.0
22231.000000	47.9	1000.0	1000.000	150.0	V	0.0	-6.8	26.1	74.0
23521.000000	49.0	1000.0	1000.000	150.0	V	0.0	-4.6	25.0	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20499.750000	36.3	1000.0	1000.000	150.0	V	0.0	-9.1	17.7	54.0
22231.000000	37.2	1000.0	1000.000	150.0	V	0.0	-6.8	16.8	54.0
23521.000000	38.2	1000.0	1000.000	150.0	V	0.0	-4.6	15.8	54.0

Figure 31: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal, BLE 1M 2440MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.810000	22.0	1000.0	120.000	100.0	H	11.0	25.0	18.0	40.0
196.140000	20.5	1000.0	120.000	100.0	H	11.0	16.2	23.0	43.5
706.680000	24.1	1000.0	120.000	100.0	H	11.0	26.8	21.9	46.0

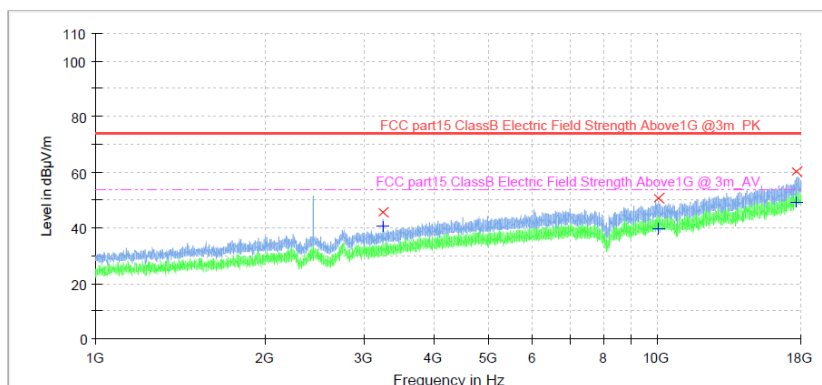
Figure 32: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical, BLE 1M 2440MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.450000	21.6	1000.0	120.000	100.0	V	11.0	24.7	18.4	40.0
114.930000	16.3	1000.0	120.000	100.0	V	11.0	19.0	27.2	43.5
728.830000	27.2	1000.0	120.000	100.0	V	11.0	27.4	18.8	46.0

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Figure 33: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Horizontal, BLE 1M 2440MHz



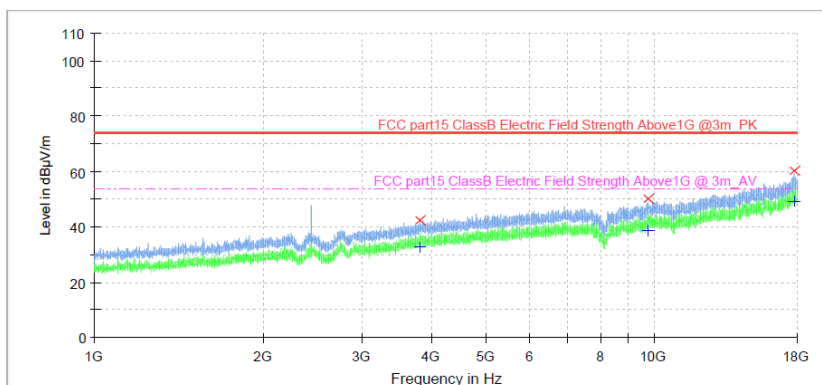
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3253.030000	45.4	1000.0	1000.000	150.0	H	0.0	-0.5	28.6	74.0
10050.905000	50.8	1000.0	1000.000	150.0	H	0.0	11.7	23.3	74.0
17705.685000	60.1	1000.0	1000.000	150.0	H	0.0	23.0	13.9	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3253.030000	40.4	1000.0	1000.000	150.0	H	0.0	-0.5	13.7	54.0
10050.905000	39.8	1000.0	1000.000	150.0	H	0.0	11.7	14.2	54.0
17705.685000	49.2	1000.0	1000.000	150.0	H	0.0	23.0	4.8	54.0

Figure 34: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Vertical, BLE 1M 2440MHz

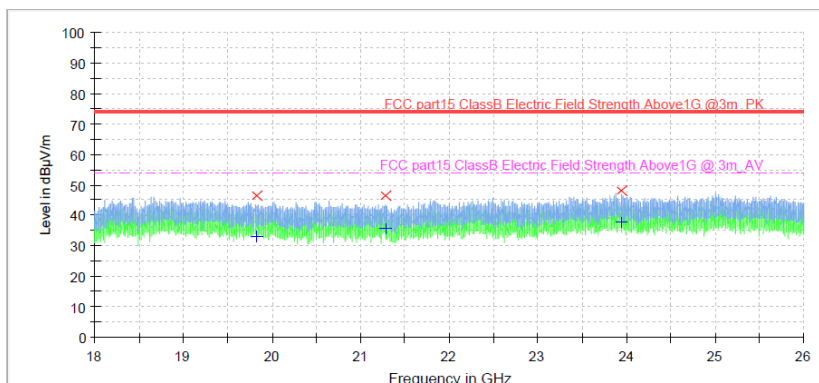


Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3808.720000	42.5	1000.0	1000.000	150.0	V	0.0	1.2	31.5	74.0
9773.595000	50.2	1000.0	1000.000	150.0	V	0.0	11.0	23.8	74.0
17751.375000	60.1	1000.0	1000.000	150.0	V	0.0	23.2	13.9	74.0

Limit and Margin-AV

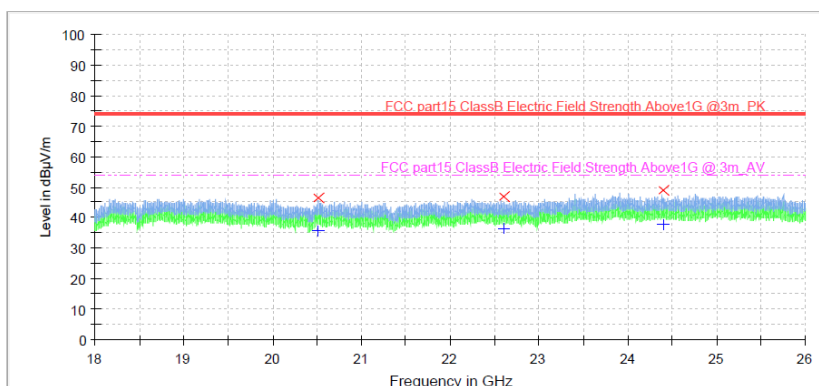
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3808.720000	32.5	1000.0	1000.000	150.0	V	0.0	1.2	21.5	54.0
9773.595000	38.9	1000.0	1000.000	150.0	V	0.0	11.0	15.1	54.0
17751.375000	49.1	1000.0	1000.000	150.0	V	0.0	23.2	4.9	54.0

Figure 35: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Horizontal, BLE 1M 2440MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19828.250000	46.7	1000.0	1000.000	150.0	H	0.0	-9.3	27.4	74.0
21275.750000	46.3	1000.0	1000.000	150.0	H	0.0	-8.4	27.8	74.0
23938.000000	48.0	1000.0	1000.000	150.0	H	0.0	-4.5	26.0	74.0

Limit and Margin-AV

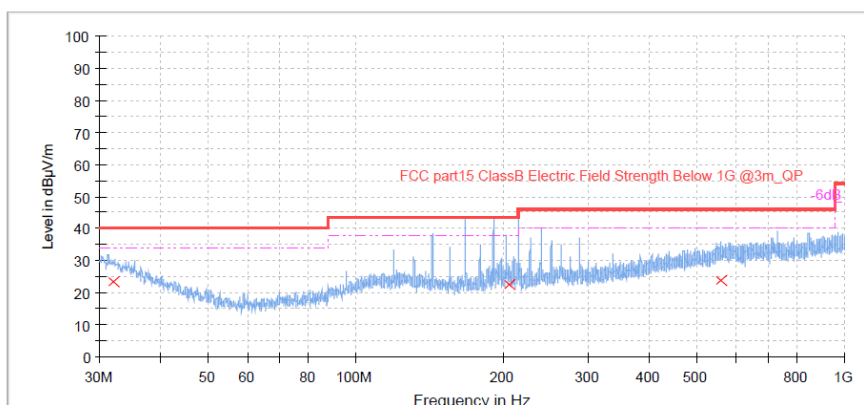
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19828.250000	33.2	1000.0	1000.000	150.0	H	0.0	-9.3	20.8	54.0
21275.750000	35.5	1000.0	1000.000	150.0	H	0.0	-8.4	18.5	54.0
23938.000000	37.5	1000.0	1000.000	150.0	H	0.0	-4.5	16.5	54.0

Figure 36: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Vertical, BLE 1M 2440MHz

Limit and Margin-PK

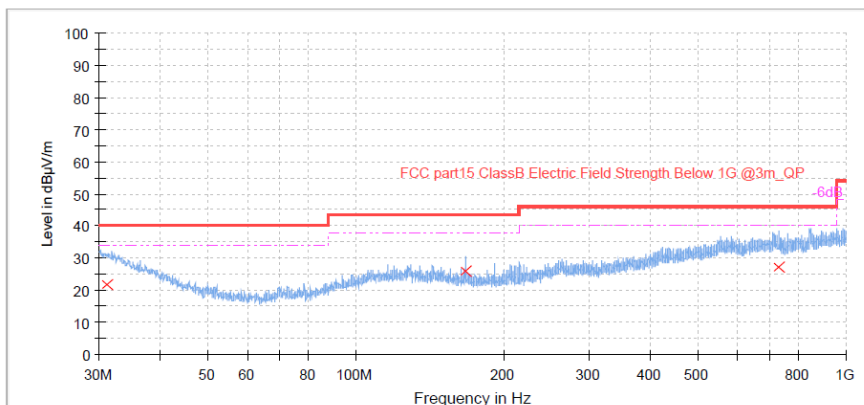
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
20513.250000	46.6	1000.0	1000.000	150.0	V	0.0	-9.1	27.4	74.0
22599.500000	46.8	1000.0	1000.000	150.0	V	0.0	-6.0	27.3	74.0
24398.750000	48.8	1000.0	1000.000	150.0	V	0.0	-4.5	25.2	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20513.250000	35.6	1000.0	1000.000	150.0	V	0.0	-9.1	18.4	54.0
22599.500000	36.3	1000.0	1000.000	150.0	V	0.0	-6.0	17.7	54.0
24398.750000	37.8	1000.0	1000.000	150.0	V	0.0	-4.5	16.2	54.0

Figure 37: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal, BLE 1M 2480MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
32.050000	23.3	1000.0	120.000	100.0	H	11.0	24.3	16.7	40.0
206.970000	22.8	1000.0	120.000	100.0	H	11.0	16.5	20.7	43.5
560.860000	23.7	1000.0	120.000	100.0	H	11.0	27.0	22.3	46.0

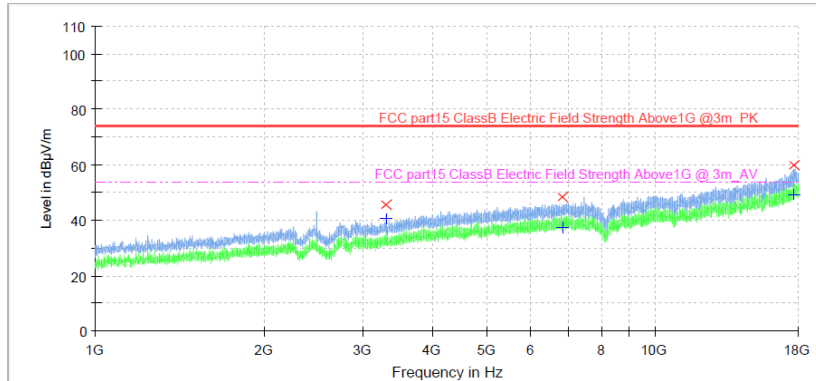
Figure 38: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical, BLE 1M 2480MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.080000	21.9	1000.0	120.000	100.0	V	11.0	24.9	18.1	40.0
167.740000	26.1	1000.0	120.000	100.0	V	11.0	16.7	17.4	43.5
729.260000	27.1	1000.0	120.000	100.0	V	11.0	27.4	18.9	46.0

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Figure 39: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Horizontal, BLE 1M 2480MHz



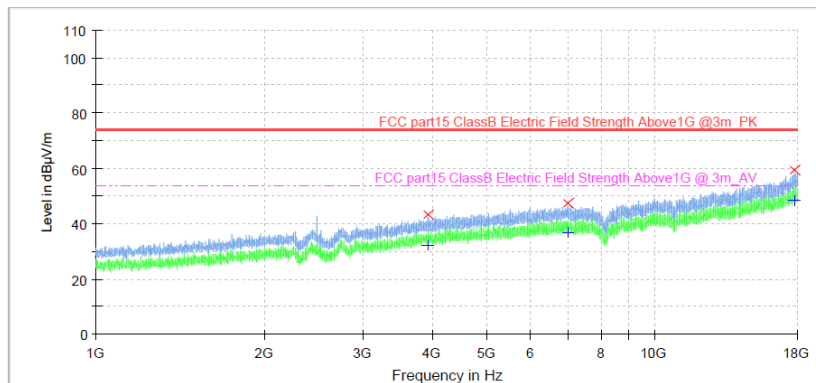
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3306.155000	45.6	1000.0	1000.000	150.0	H	0.0	-0.4	28.4	74.0
6838.435000	48.4	1000.0	1000.000	150.0	H	0.0	8.0	25.7	74.0
17721.625000	60.0	1000.0	1000.000	150.0	H	0.0	23.1	14.0	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3306.155000	40.3	1000.0	1000.000	150.0	H	0.0	-0.4	13.7	54.0
6838.435000	37.1	1000.0	1000.000	150.0	H	0.0	8.0	16.9	54.0
17721.625000	49.3	1000.0	1000.000	150.0	H	0.0	23.1	4.8	54.0

Figure 40: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Vertical, BLE 1M 2480MHz

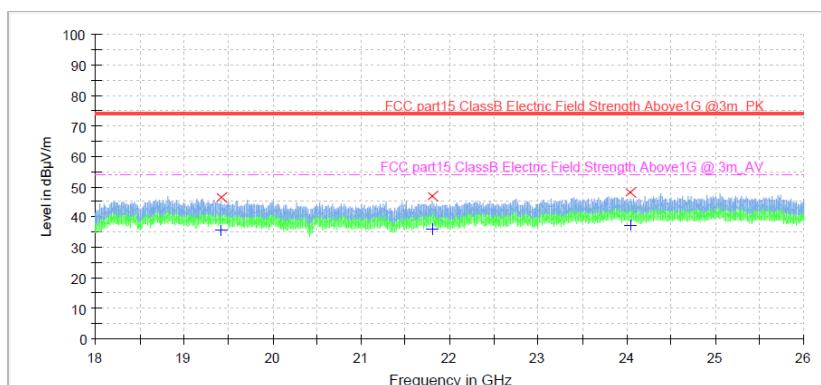


Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3918.155000	43.2	1000.0	1000.000	150.0	V	0.0	1.5	30.9	74.0
7008.435000	47.6	1000.0	1000.000	150.0	V	0.0	8.3	26.4	74.0
17829.470000	59.2	1000.0	1000.000	150.0	V	0.0	23.5	14.8	74.0

Limit and Margin-AV

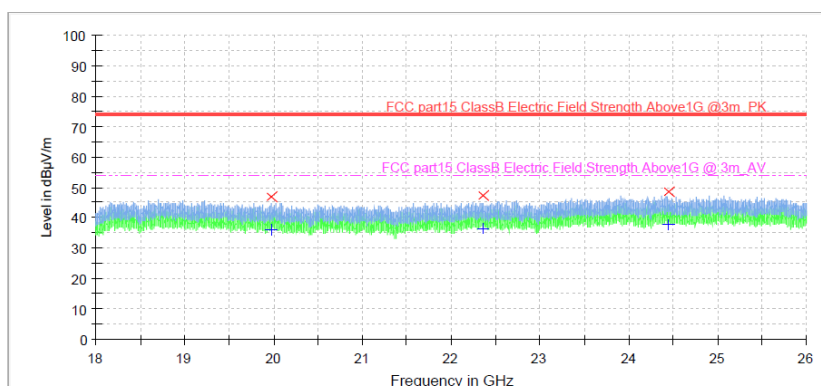
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3918.155000	32.4	1000.0	1000.000	150.0	V	0.0	1.5	21.6	54.0
7008.435000	37.0	1000.0	1000.000	150.0	V	0.0	8.3	17.0	54.0
17829.470000	48.5	1000.0	1000.000	150.0	V	0.0	23.5	5.5	54.0

Figure 41: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Horizontal, BLE 1M 2480MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19425.250000	46.3	1000.0	1000.000	150.0	H	0.0	-9.3	27.7	74.0
21800.000000	47.0	1000.0	1000.000	150.0	H	0.0	-7.6	27.0	74.0
24045.500000	48.2	1000.0	1000.000	150.0	H	0.0	-4.5	25.8	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19425.250000	35.7	1000.0	1000.000	150.0	H	0.0	-9.3	18.3	54.0
21800.000000	35.9	1000.0	1000.000	150.0	H	0.0	-7.6	18.1	54.0
24045.500000	37.4	1000.0	1000.000	150.0	H	0.0	-4.5	16.6	54.0

Figure 42: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Vertical, BLE 1M 2480MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19970.250000	46.8	1000.0	1000.000	150.0	V	0.0	-9.2	27.2	74.0
22353.000000	47.1	1000.0	1000.000	150.0	V	0.0	-6.6	26.9	74.0
24455.000000	48.3	1000.0	1000.000	150.0	V	0.0	-4.5	25.7	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19970.250000	35.8	1000.0	1000.000	150.0	V	0.0	-9.2	18.2	54.0
22353.000000	36.2	1000.0	1000.000	150.0	V	0.0	-6.6	17.8	54.0
24455.000000	37.8	1000.0	1000.000	150.0	V	0.0	-4.5	16.2	54.0

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