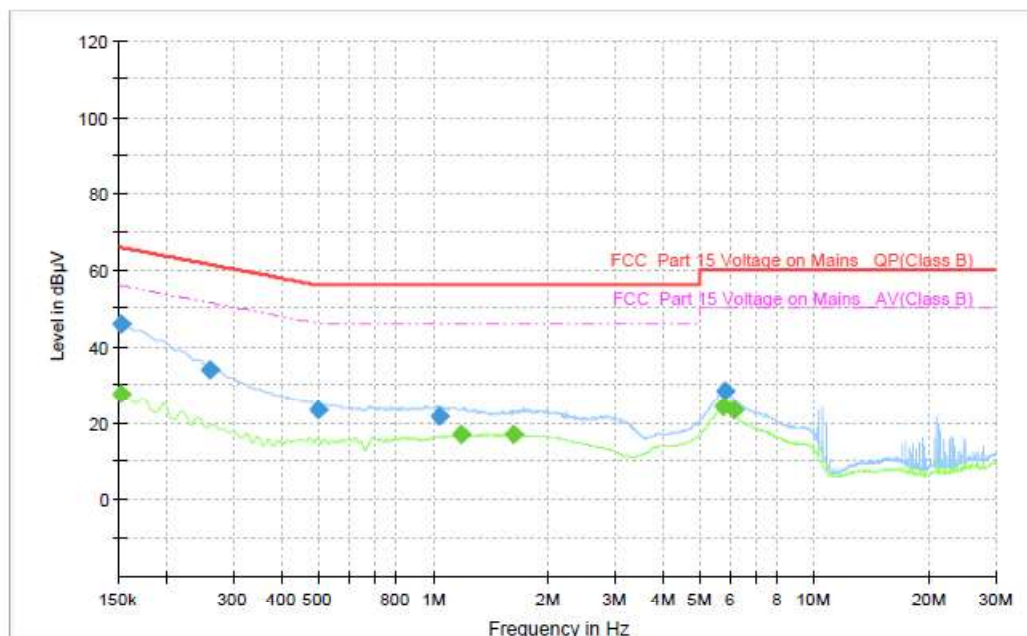


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Figure 8: Spectral Diagrams, Conducted Emission, 150KHz - 30MHz, L, Adapter 2



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.152250	---	27.60	55.88	28.28	1000.0	9.000	L1	ON	9.6
0.152250	45.90	---	65.88	19.98	1000.0	9.000	L1	ON	9.6
0.258000	33.83	---	61.50	27.67	1000.0	9.000	L1	ON	9.6
0.496500	23.30	---	56.06	32.76	1000.0	9.000	L1	ON	9.6
1.038750	21.32	---	56.00	34.68	1000.0	9.000	L1	ON	9.7
1.178250	---	16.67	46.00	29.33	1000.0	9.000	L1	ON	9.7
1.630500	---	16.83	46.00	29.17	1000.0	9.000	L1	ON	9.7
5.784000	---	24.05	50.00	25.95	1000.0	9.000	L1	ON	9.9
5.817750	28.24	---	60.00	31.76	1000.0	9.000	L1	ON	9.9
6.128250	---	23.21	50.00	26.79	1000.0	9.000	L1	ON	9.9

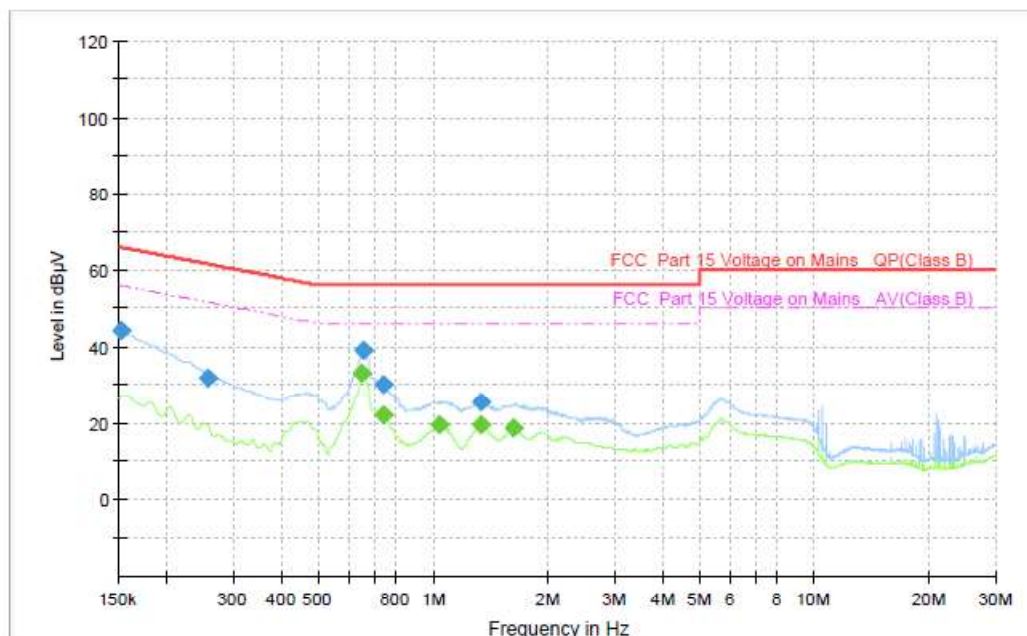
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Figure 9: Spectral Diagrams, Conducted Emission, 150KHz - 30MHz, N, Adapter 2



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.152250	44.32	---	65.88	21.56	1000.0	9.000	N	ON	9.6
0.255750	32.01	---	61.57	29.56	1000.0	9.000	N	ON	9.6
0.651750	---	33.05	46.00	12.95	1000.0	9.000	N	ON	9.6
0.654000	39.19	---	56.00	16.81	1000.0	9.000	N	ON	9.6
0.737250	30.14	---	56.00	25.86	1000.0	9.000	N	ON	9.6
0.737250	---	21.92	46.00	24.08	1000.0	9.000	N	ON	9.6
1.032000	---	19.23	46.00	26.77	1000.0	9.000	N	ON	9.7
1.329000	25.40	---	56.00	30.60	1000.0	9.000	N	ON	9.7
1.335750	---	19.29	46.00	26.71	1000.0	9.000	N	ON	9.7
1.621500	---	18.60	46.00	27.40	1000.0	9.000	N	ON	9.7

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4.1.9 Radiated Emission

Result:

Pass

Test Specification

Test standard

: CFR47 FCC Part 15.107
CFR47 FCC Part 15.207
ICES-003 Issue 7:2020
RSS-Gen Issue 5, Clause 8.9, 8.10

Basic standard

: ANSI C63.10: 2013, Clause 11.12

Port

: Enclosure

Frequency range

: 30MHz-1000MHz for normal
30MHz-10th Harmonic for intentional radiator

Limits

: CFR47 FCC Part 15.109
CFR47 FCC Part 15.205
CFR47 FCC Part 15.209
ICES-003 Issue 7:2020, table 2
RSS-Gen Issue 5, table 6, table 7

Kind of test site

: 3m Semi-anechoic Chamber

Test Setup

Date of testing

: 2023.06.12-2023.07.08

Input voltage

: DC 21.6V, AC 120V

Operational mode

: A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3,
E, F

Temperature

: 21°C

Relative humidity

: 63%

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.

$E = \text{EIRP} - 20 \log d + 104.8$; where

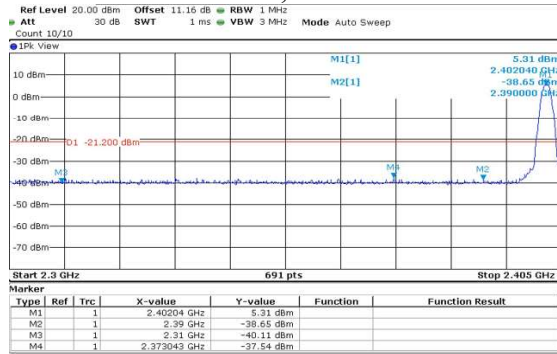
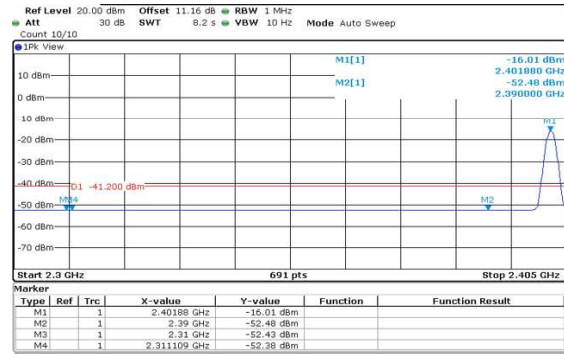
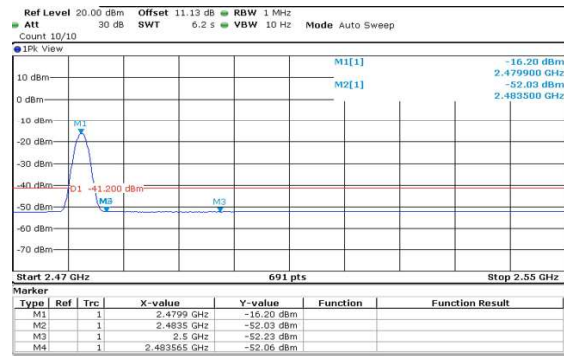
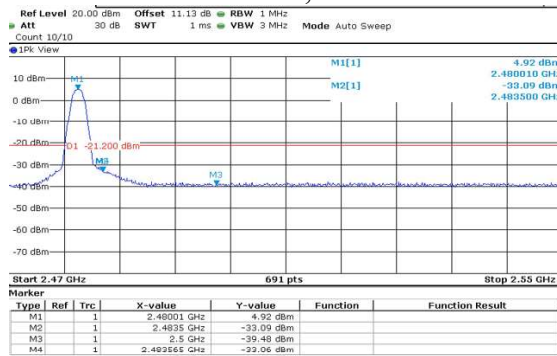
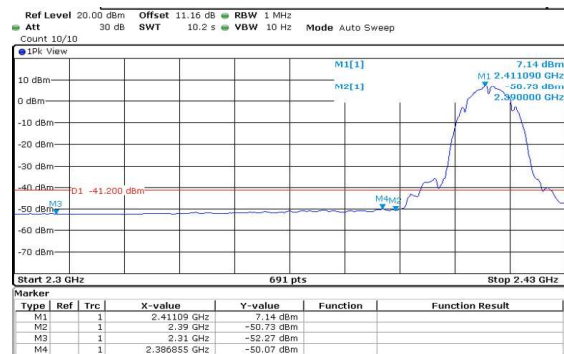
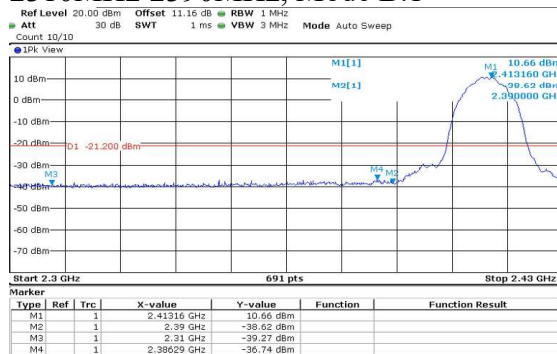
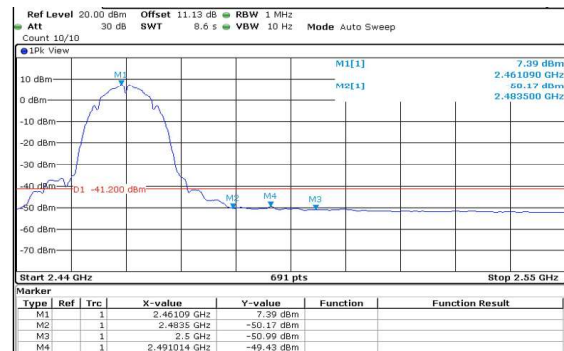
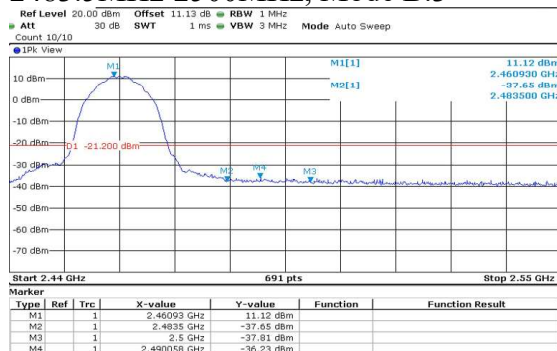
E is the electric field strength in dBuV/m

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)

Figure 10: Spectral Diagrams, Restricted frequency bands
Peak
2310MHz-2390MHz, Mode A.1

Quasi-peak

2483.5MHz-2500MHz, Mode A.3

2310MHz-2390MHz, Mode B.1

2483.5MHz-2500MHz, Mode B.3


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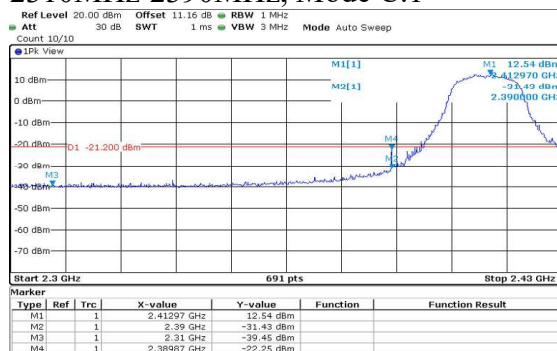
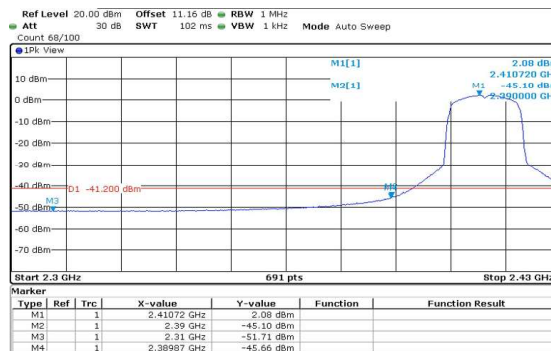
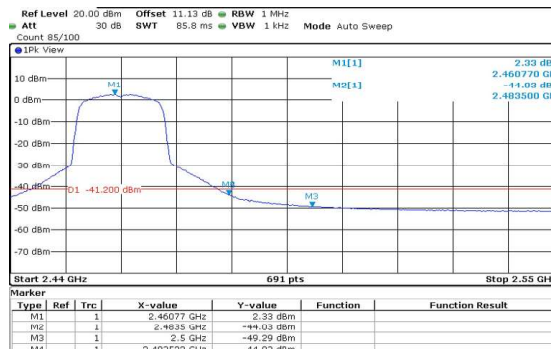
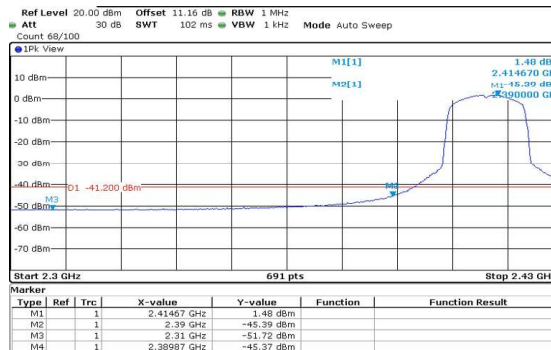
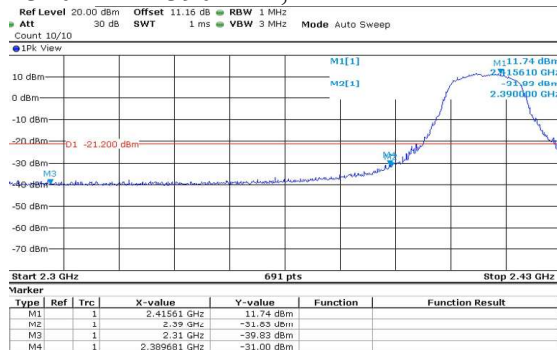
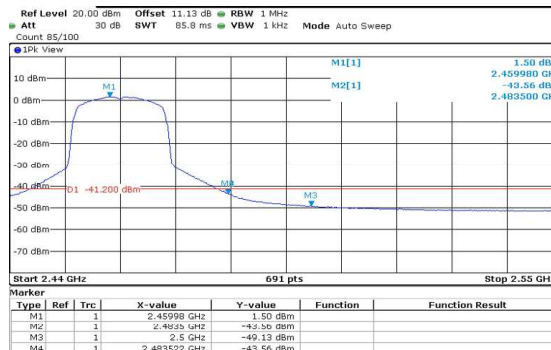
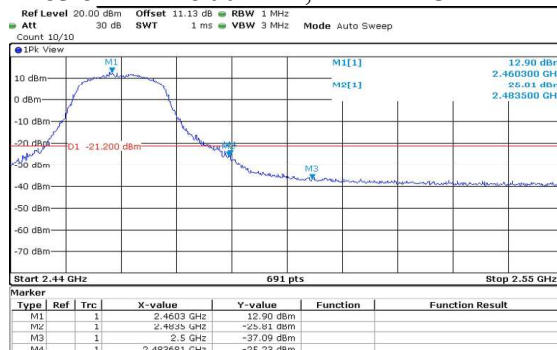
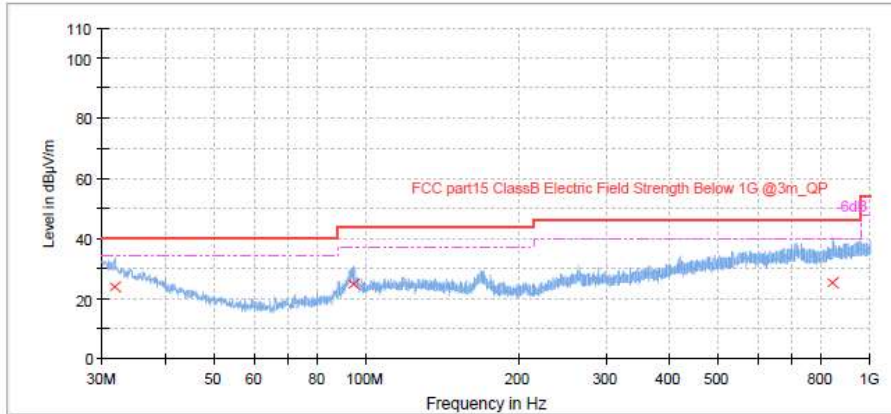
Peak
2310MHz-2390MHz, Mode C.1

Quasi-peak

2483.5MHz-2500MHz, Mode C.3

2310MHz-2390MHz, Mode D.1

2483.5MHz-2500MHz, Mode D.3


Figure 11: Spectral Diagrams, Radiated Spurious Emission, Mode A.1

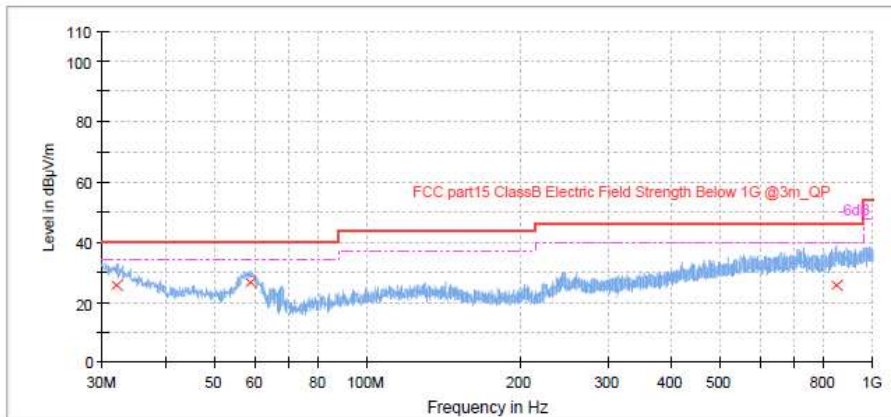
30MHz-1000MHz, Horizontal



Limit and Margin

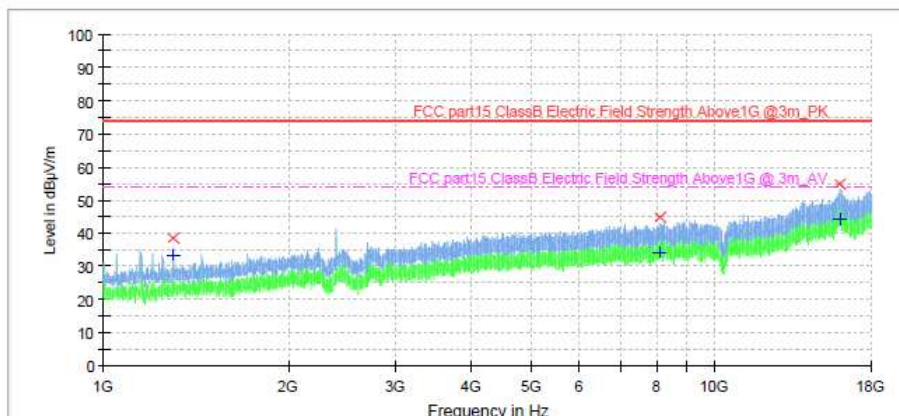
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.670000	24.0	1000.0	120.000	150.0	H	11.0	24.8	16.1	40.0
94.830000	24.9	1000.0	120.000	150.0	H	11.0	17.1	18.6	43.5
844.910000	25.5	1000.0	120.000	150.0	H	11.0	29.4	20.5	46.0

30MHz-1000MHz, Vertical



Limit and Margin

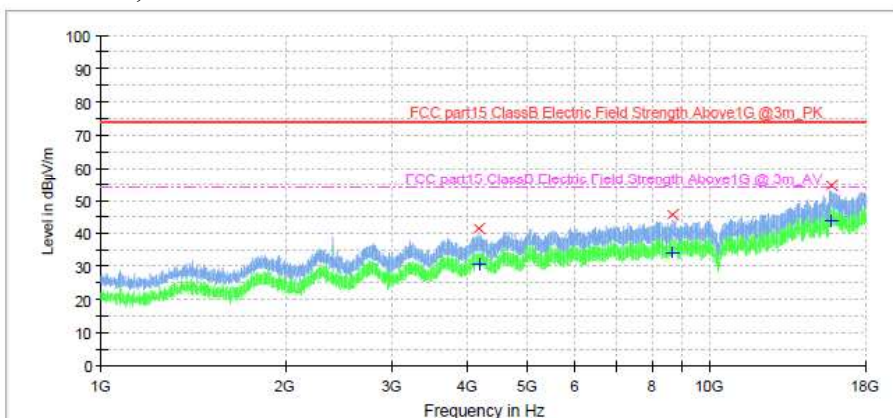
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
32.100000	25.9	1000.0	120.000	150.0	V	11.0	24.4	14.1	40.0
58.720000	26.8	1000.0	120.000	150.0	V	11.0	13.2	13.2	40.0
845.550000	25.7	1000.0	120.000	150.0	V	11.0	29.3	20.3	46.0

1GHz-18GHz, Horizontal

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)
1300.155000	38.4	1000.0	1000.000	150.0	H	0.0	-12.8	35.6	74.0
8128.310000	44.7	1000.0	1000.000	150.0	H	0.0	6.0	29.3	74.0
15958.935000	54.9	1000.0	1000.000	150.0	H	0.0	17.3	19.1	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)
1300.155000	33.5	1000.0	1000.000	150.0	H	0.0	-12.8	20.5	54.0
8128.310000	34.2	1000.0	1000.000	150.0	H	0.0	6.0	19.8	54.0
15958.935000	44.2	1000.0	1000.000	150.0	H	0.0	17.3	9.8	54.0

1GHz-18GHz, Vertical

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)
4173.685000	41.6	1000.0	1000.000	150.0	V	0.0	-0.2	32.4	74.0
8652.125000	45.4	1000.0	1000.000	150.0	V	0.0	6.3	28.6	74.0
15804.875000	54.2	1000.0	1000.000	150.0	V	0.0	16.3	19.8	74.0

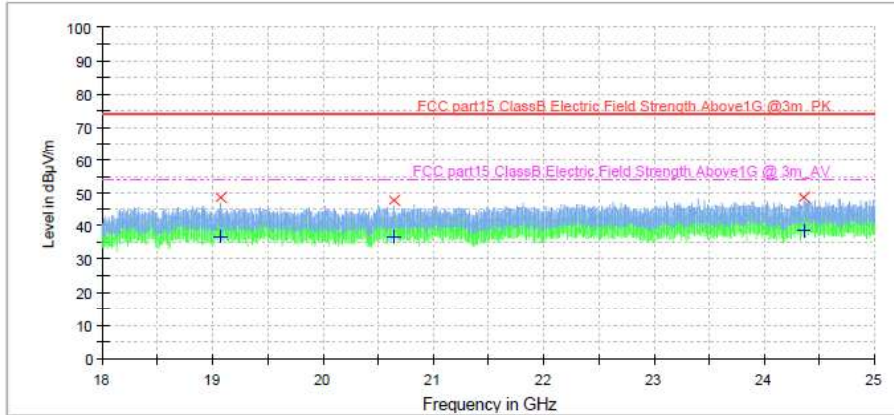
Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4173.685000	30.5	1000.0	1000.000	150.0	V	0.0	-0.2	23.5	54.0
8652.125000	34.3	1000.0	1000.000	150.0	V	0.0	6.3	19.7	54.0
15804.875000	43.9	1000.0	1000.000	150.0	V	0.0	16.3	10.1	54.0

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18GHz-25GHz, Horizontal



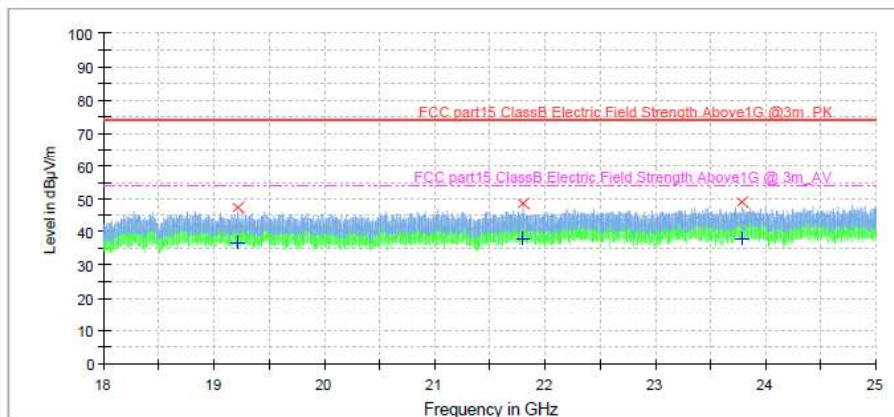
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19071.655000	48.5	1000.0	1000.000	150.0	H	0.0	-9.9	25.6	74.0
20646.435000	47.6	1000.0	1000.000	150.0	H	0.0	-8.8	26.4	74.0
24356.875000	48.7	1000.0	1000.000	150.0	H	0.0	-5.0	25.3	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)
19071.655000	37.0	1000.0	1000.000	150.0	H	0.0	-9.9	17.0	54.0
20646.435000	36.9	1000.0	1000.000	150.0	H	0.0	-8.8	17.1	54.0
24356.875000	38.6	1000.0	1000.000	150.0	H	0.0	-5.0	15.4	54.0

18GHz-25GHz, Vertical



Limit and Margin-PK

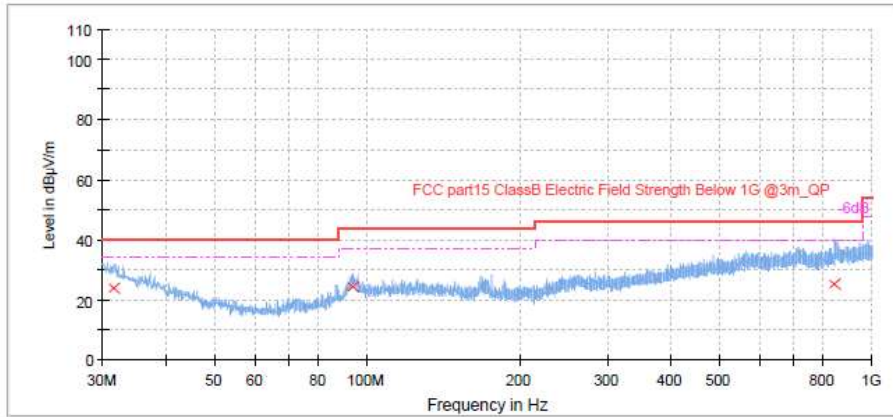
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19218.655000	47.4	1000.0	1000.000	150.0	V	0.0	-9.9	26.6	74.0
21796.405000	48.6	1000.0	1000.000	150.0	V	0.0	-7.2	25.4	74.0
23788.125000	49.2	1000.0	1000.000	150.0	V	0.0	-5.1	24.9	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)
19218.655000	36.9	1000.0	1000.000	150.0	V	0.0	-9.9	17.2	54.0
21796.405000	38.3	1000.0	1000.000	150.0	V	0.0	-7.2	15.8	54.0
23788.125000	38.1	1000.0	1000.000	150.0	V	0.0	-5.1	15.9	54.0

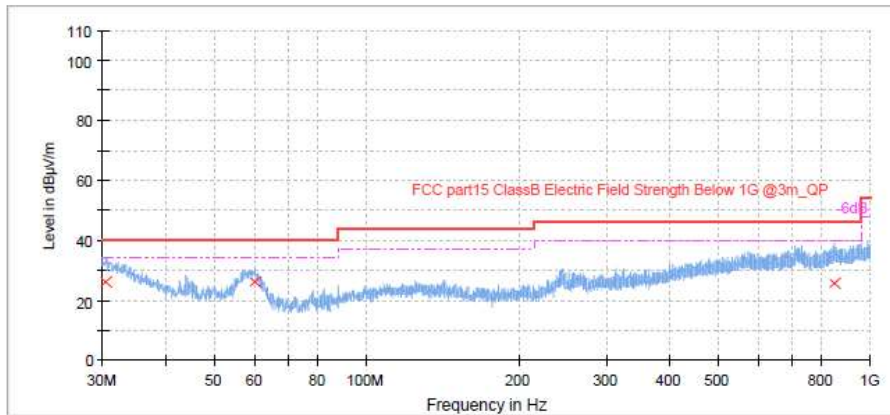
Figure 12: Spectral Diagrams, Radiated Spurious Emission, Mode A.2

30MHz-1000MHz, Horizontal


Limit and Margin

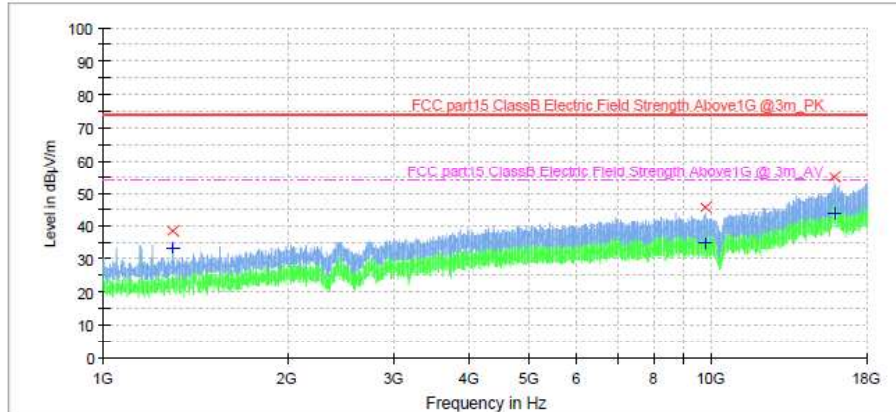
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.620000	24.0	1000.0	120.000	150.0	H	11.0	24.8	16.0	40.0
94.020000	24.2	1000.0	120.000	150.0	H	11.0	16.9	19.3	43.5
844.910000	25.3	1000.0	120.000	150.0	H	11.0	29.4	20.7	46.0

30MHz-1000MHz, Vertical


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)
30.540000	26.3	1000.0	120.000	150.0	V	11.0	25.6	13.7	40.0
60.070000	26.4	1000.0	120.000	150.0	V	11.0	13.1	13.6	40.0
850.730000	25.7	1000.0	120.000	150.0	V	11.0	29.3	20.3	46.0

1GHz-18GHz, Horizontal



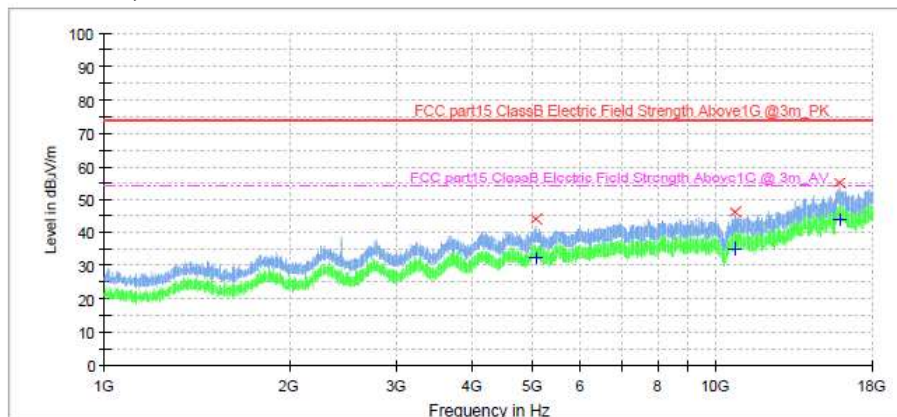
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1300.155000	38.3	1000.0	1000.000	150.0	H	0.0	-12.8	35.7	74.0
9734.280000	45.8	1000.0	1000.000	150.0	H	0.0	6.9	28.2	74.0
15916.970000	54.7	1000.0	1000.000	150.0	H	0.0	17.1	19.3	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)
1300.155000	33.5	1000.0	1000.000	150.0	H	0.0	-12.8	20.5	54.0
9734.280000	34.7	1000.0	1000.000	150.0	H	0.0	6.9	19.3	54.0
15916.970000	43.9	1000.0	1000.000	150.0	H	0.0	17.1	10.1	54.0

1GHz-18GHz, Vertical

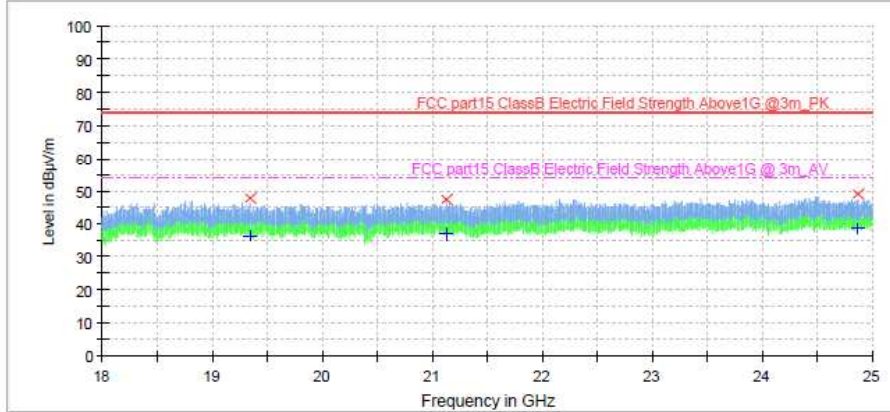


Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
5067.780000	43.8	1000.0	1000.000	150.0	V	0.0	2.0	30.2	74.0
10755.345000	46.0	1000.0	1000.000	150.0	V	0.0	8.3	28.0	74.0
15852.685000	54.6	1000.0	1000.000	150.0	V	0.0	16.7	19.4	74.0

Limit and Margin-AV

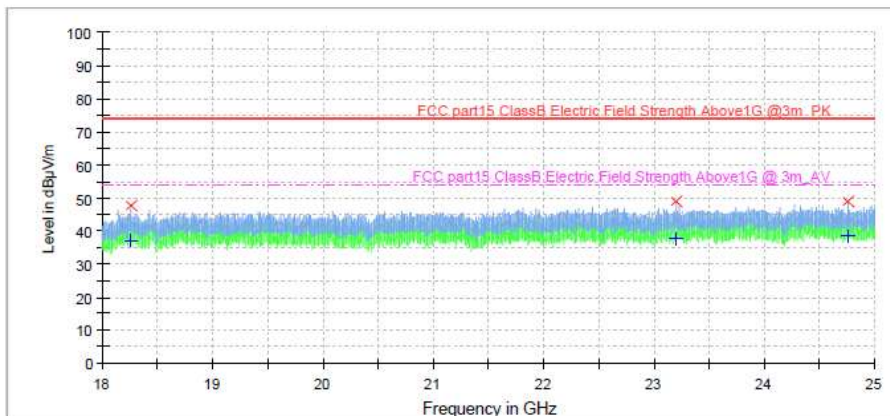
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
5067.780000	32.4	1000.0	1000.000	150.0	V	0.0	2.0	21.6	54.0
10755.345000	35.0	1000.0	1000.000	150.0	V	0.0	8.3	19.0	54.0
15852.685000	43.8	1000.0	1000.000	150.0	V	0.0	16.7	10.2	54.0

18GHz-25GHz, Horizontal

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)
19340.935000	47.5	1000.0	1000.000	150.0	H	0.0	-9.9	26.5	74.0
21124.845000	47.4	1000.0	1000.000	150.0	H	0.0	-8.1	26.6	74.0
24872.470000	49.0	1000.0	1000.000	150.0	H	0.0	-4.8	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)
19340.935000	36.6	1000.0	1000.000	150.0	H	0.0	-9.9	17.4	54.0
21124.845000	36.7	1000.0	1000.000	150.0	H	0.0	-8.1	17.3	54.0
24872.470000	38.6	1000.0	1000.000	150.0	H	0.0	-4.8	15.4	54.0

18GHz-25GHz, Vertical

Limit and Margin-PK

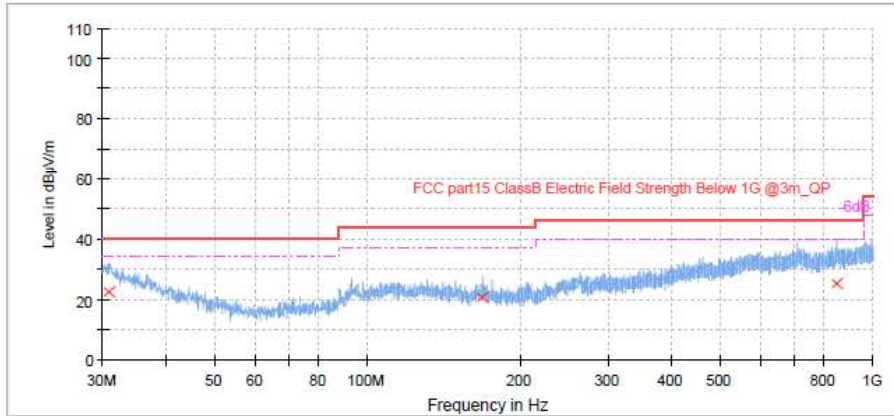
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18256.810000	47.9	1000.0	1000.000	150.0	V	0.0	-9.9	26.1	74.0
23197.720000	48.9	1000.0	1000.000	150.0	V	0.0	-5.2	25.1	74.0
24762.000000	49.1	1000.0	1000.000	150.0	V	0.0	-4.8	24.9	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)
18256.810000	37.4	1000.0	1000.000	150.0	V	0.0	-9.9	16.6	54.0
23197.720000	37.0	1000.0	1000.000	150.0	V	0.0	-5.2	16.2	54.0
24762.000000	38.7	1000.0	1000.000	150.0	V	0.0	-4.8	15.3	54.0

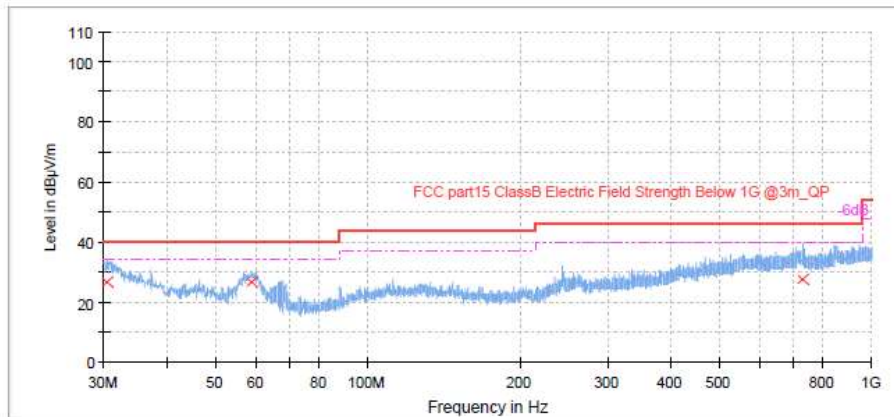
Figure 13: Spectral Diagrams, Radiated Spurious Emission, Mode A.3

30MHz-1000MHz, Horizontal

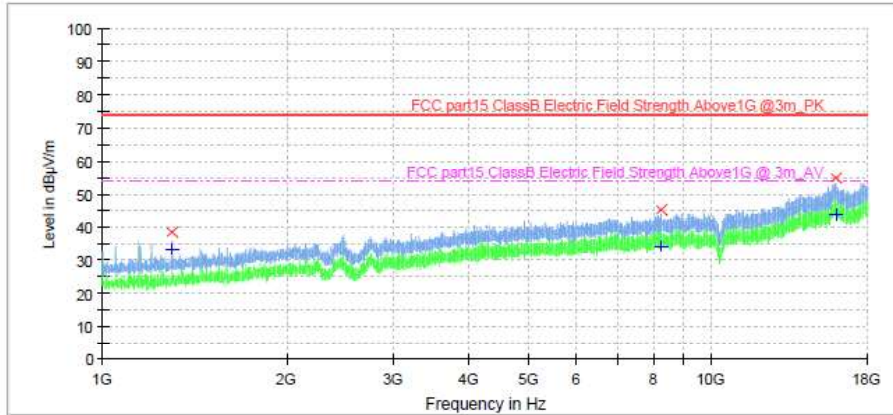

Limit and Margin

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	22.4	1000.0	120.000	150.0	H	11.0	25.4	17.6	40.0
169.140000	20.8	1000.0	120.000	150.0	H	11.0	17.0	22.7	43.5
846.250000	25.5	1000.0	120.000	150.0	H	11.0	29.3	20.5	46.0

30MHz-1000MHz, Vertical


Limit and Margin

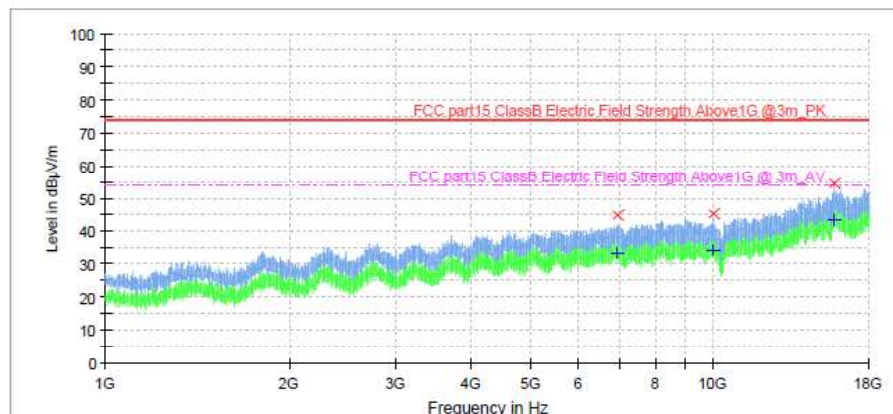
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.480000	26.5	1000.0	120.000	150.0	V	11.0	25.7	13.5	40.0
58.990000	26.8	1000.0	120.000	150.0	V	11.0	13.2	13.2	40.0
728.830000	27.8	1000.0	120.000	150.0	V	11.0	28.0	18.2	46.0

1GHz-18GHz, Horizontal

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)
1300.155000	38.5	1000.0	1000.000	150.0	H	0.0	-12.8	35.5	74.0
8251.560000	45.1	1000.0	1000.000	150.0	H	0.0	6.1	28.9	74.0
16028.000000	54.8	1000.0	1000.000	150.0	H	0.0	17.5	19.2	74.0

Limit and Margin-AV

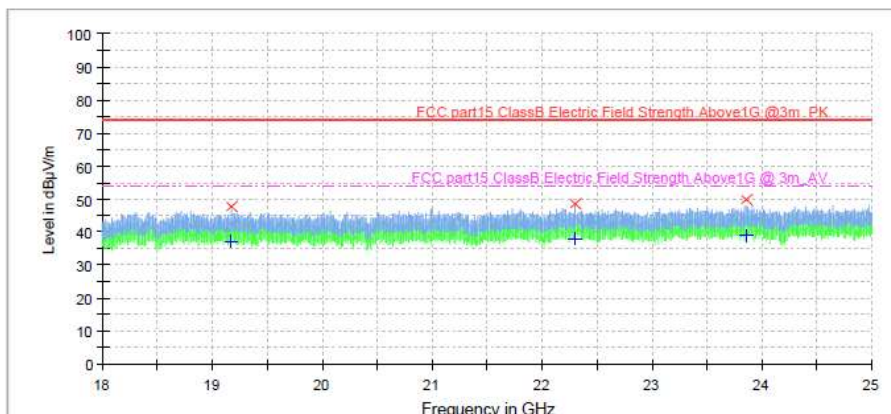
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1300.155000	33.6	1000.0	1000.000	150.0	H	0.0	-12.8	20.4	54.0
8251.560000	34.3	1000.0	1000.000	150.0	H	0.0	6.1	19.7	54.0
16028.000000	43.8	1000.0	1000.000	150.0	H	0.0	17.5	10.2	54.0

1GHz-18GHz, Vertical

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)
6954.250000	44.7	1000.0	1000.000	150.0	V	0.0	4.9	29.3	74.0
9961.655000	45.4	1000.0	1000.000	150.0	V	0.0	7.1	28.6	74.0
15749.625000	54.5	1000.0	1000.000	150.0	V	0.0	16.0	19.5	74.0

Limit and Margin-AV

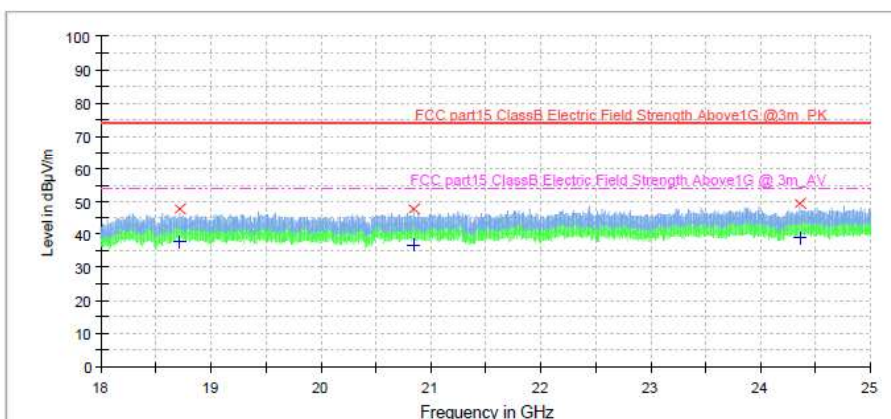
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
6954.250000	33.5	1000.0	1000.000	150.0	V	0.0	4.9	20.5	54.0
9961.655000	34.5	1000.0	1000.000	150.0	V	0.0	7.1	19.5	54.0
15749.625000	43.5	1000.0	1000.000	150.0	V	0.0	16.0	10.5	54.0

18GHz-25GHz, Horizontal

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)
19168.560000	47.6	1000.0	1000.000	150.0	H	0.0	-9.9	26.4	74.0
22294.280000	48.7	1000.0	1000.000	150.0	H	0.0	-6.5	25.3	74.0
23854.405000	49.7	1000.0	1000.000	150.0	H	0.0	-5.2	24.3	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)
19168.560000	37.1	1000.0	1000.000	150.0	H	0.0	-9.9	16.9	54.0
22294.280000	37.9	1000.0	1000.000	150.0	H	0.0	-6.5	16.1	54.0
23854.405000	38.9	1000.0	1000.000	150.0	H	0.0	-5.2	15.1	54.0

18GHz-25GHz, Vertical

Limit and Margin-PK

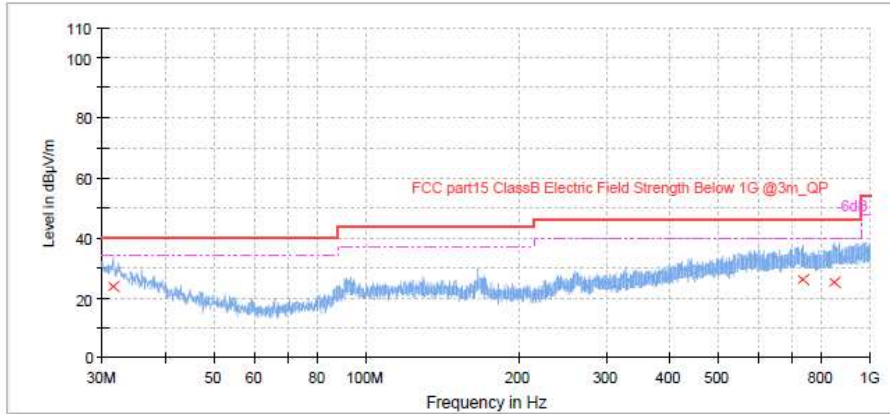
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18708.530000	47.6	1000.0	1000.000	150.0	V	0.0	-9.8	26.4	74.0
20842.875000	47.7	1000.0	1000.000	150.0	V	0.0	-8.5	26.4	74.0
24361.685000	49.3	1000.0	1000.000	150.0	V	0.0	-5.0	24.7	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)
18708.530000	37.5	1000.0	1000.000	150.0	V	0.0	-9.8	16.6	54.0
20842.875000	36.8	1000.0	1000.000	150.0	V	0.0	-8.5	17.2	54.0
24361.685000	38.8	1000.0	1000.000	150.0	V	0.0	-5.0	15.2	54.0

Figure 14: Spectral Diagrams, Radiated Spurious Emission, Mode B.1

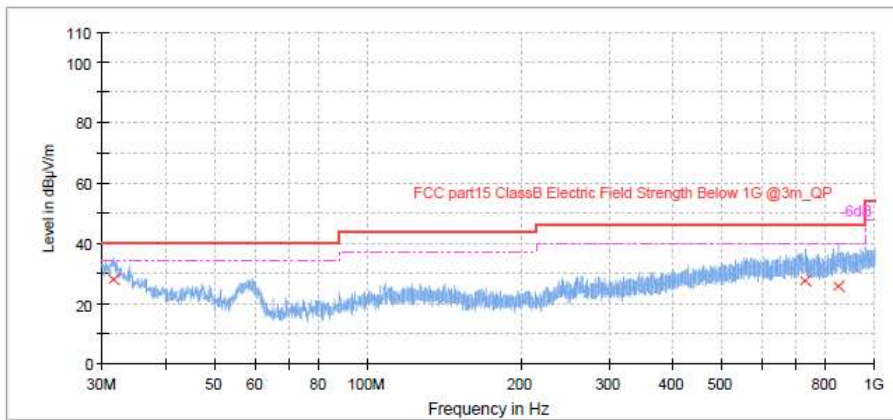
30MHz-1000MHz, Horizontal



Limit and Margin

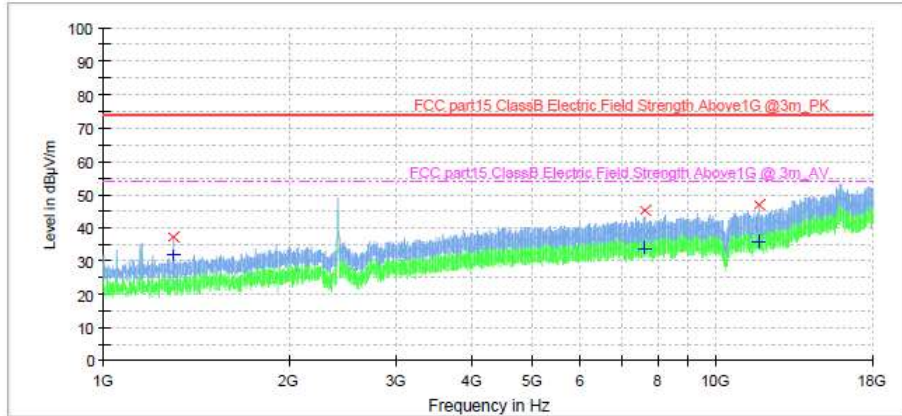
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.510000	24.0	1000.0	120.000	150.0	H	11.0	24.9	16.0	40.0
735.670000	26.3	1000.0	120.000	150.0	H	11.0	28.2	19.7	46.0
845.070000	25.4	1000.0	120.000	150.0	H	11.0	29.4	20.6	46.0

30MHz-1000MHz, Vertical



Limit and Margin

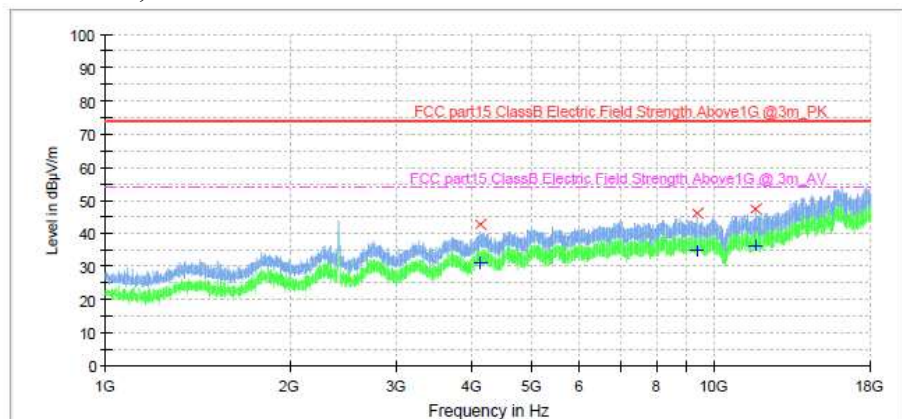
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.560000	27.9	1000.0	120.000	150.0	V	11.0	24.9	12.1	40.0
728.940000	27.8	1000.0	120.000	150.0	V	11.0	28.0	18.2	46.0
845.120000	25.6	1000.0	120.000	150.0	V	11.0	29.4	20.4	46.0

1GHz-18GHz, Horizontal

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)
1299.625000	37.4	1000.0	1000.000	150.0	H	0.0	-12.8	36.6	74.0
7657.625000	45.1	1000.0	1000.000	150.0	H	0.0	5.5	28.9	74.0
11730.185000	46.8	1000.0	1000.000	150.0	H	0.0	8.5	27.2	74.0

Limit and Margin-AV

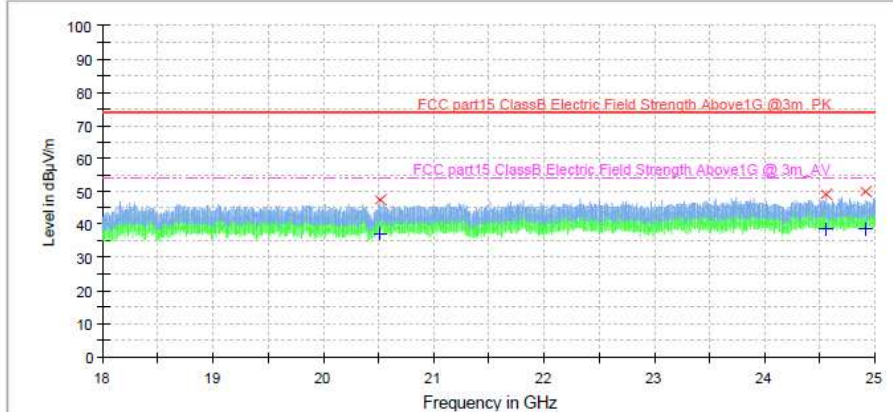
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1299.625000	31.7	1000.0	1000.000	150.0	H	0.0	-12.8	22.3	54.0
7657.625000	34.0	1000.0	1000.000	150.0	H	0.0	5.5	20.1	54.0
11730.185000	36.2	1000.0	1000.000	150.0	H	0.0	8.5	17.8	54.0

1GHz-18GHz, Vertical

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)
4119.500000	42.6	1000.0	1000.000	150.0	V	0.0	-0.3	31.4	74.0
9376.750000	46.2	1000.0	1000.000	150.0	V	0.0	6.7	27.8	74.0
11646.250000	47.1	1000.0	1000.000	150.0	V	0.0	8.4	26.9	74.0

Limit and Margin-AVG

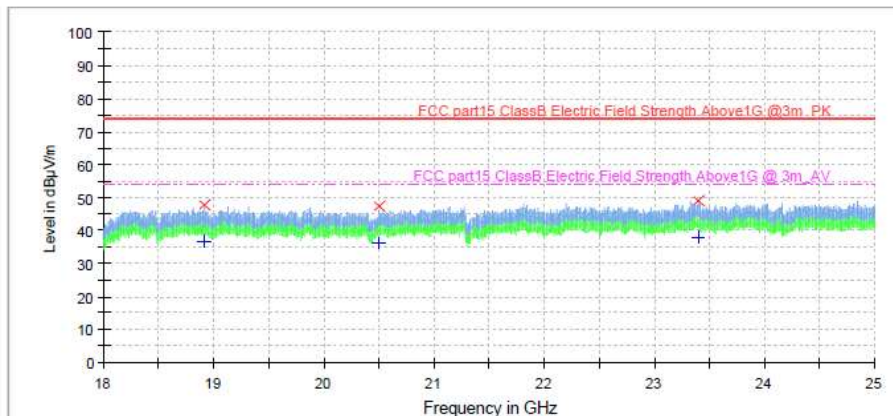
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4119.500000	30.9	1000.0	1000.000	150.0	V	0.0	-0.3	23.1	54.0
9376.750000	34.8	1000.0	1000.000	150.0	V	0.0	6.7	19.2	54.0
11646.250000	36.4	1000.0	1000.000	150.0	V	0.0	8.4	17.7	54.0

18GHz-25GHz, Horizontal

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)
20509.935000	47.2	1000.0	1000.000	150.0	H	0.0	-9.0	26.8	74.0
24551.780000	49.1	1000.0	1000.000	150.0	H	0.0	-4.9	24.9	74.0
24912.720000	49.7	1000.0	1000.000	150.0	H	0.0	-4.8	24.3	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)
20509.935000	37.2	1000.0	1000.000	150.0	H	0.0	-9.0	16.8	54.0
24551.780000	38.4	1000.0	1000.000	150.0	H	0.0	-4.9	15.6	54.0
24912.720000	38.4	1000.0	1000.000	150.0	H	0.0	-4.8	15.6	54.0

18GHz-25GHz, Vertical

Limit and Margin-PK

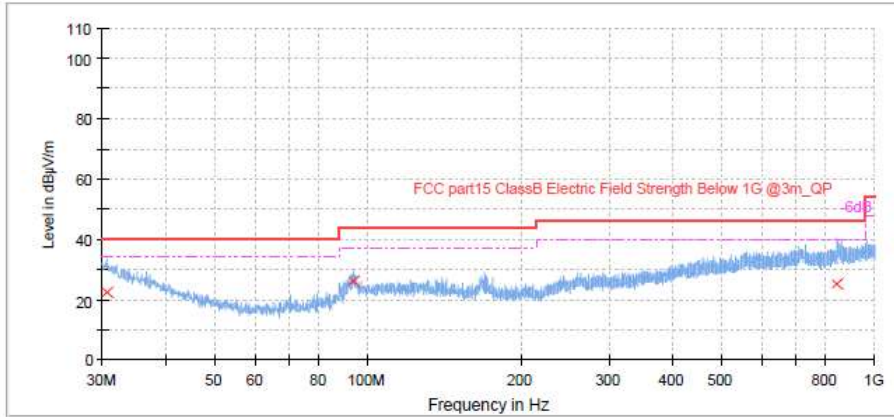
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18911.530000	47.6	1000.0	1000.000	150.0	V	0.0	-9.9	26.5	74.0
20494.405000	47.3	1000.0	1000.000	150.0	V	0.0	-9.0	26.7	74.0
23404.435000	48.8	1000.0	1000.000	150.0	V	0.0	-5.1	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)
18911.530000	36.6	1000.0	1000.000	150.0	V	0.0	-9.9	17.4	54.0
20494.405000	36.4	1000.0	1000.000	150.0	V	0.0	-9.0	17.6	54.0
23404.435000	38.3	1000.0	1000.000	150.0	V	0.0	-5.1	15.7	54.0

Figure 15: Spectral Diagrams, Radiated Spurious Emission, Mode B.2

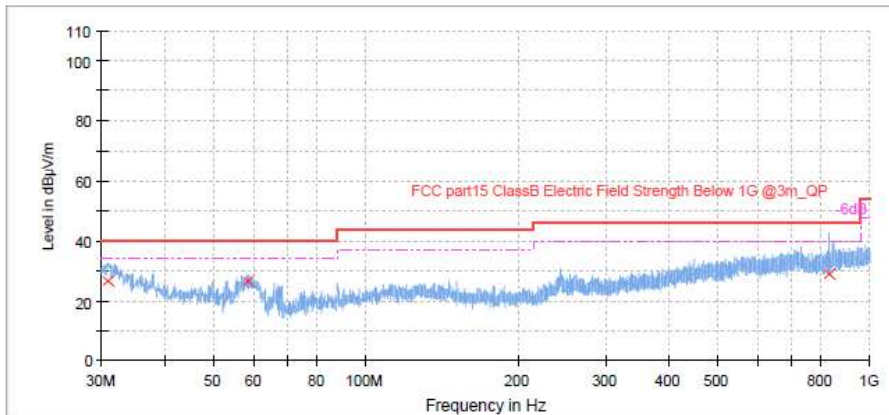
30MHz-1000MHz, Horizontal



Limit and Margin

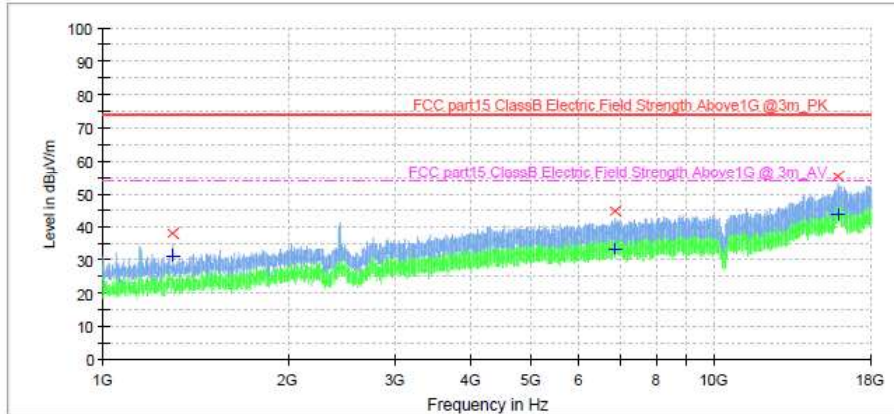
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.650000	22.5	1000.0	120.000	150.0	H	11.0	25.6	17.5	40.0
94.070000	26.1	1000.0	120.000	150.0	H	11.0	16.9	17.4	43.5
844.850000	25.5	1000.0	120.000	150.0	H	11.0	29.4	20.6	46.0

30MHz-1000MHz, Vertical



Limit and Margin

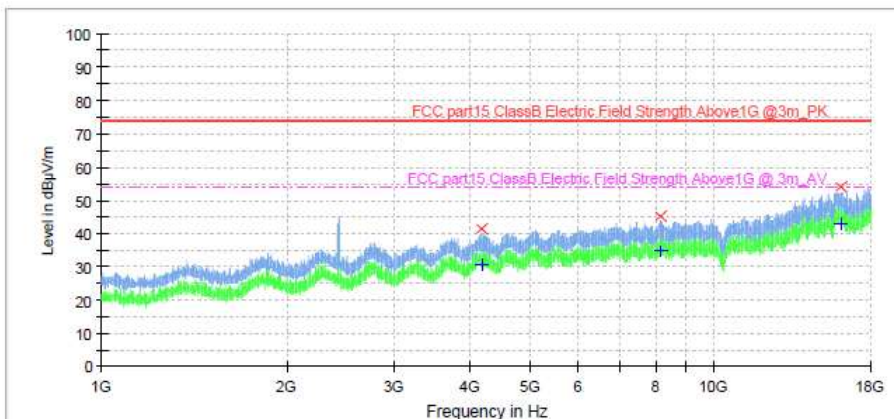
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.920000	26.7	1000.0	120.000	150.0	V	11.0	25.4	13.3	40.0
58.610000	26.6	1000.0	120.000	150.0	V	11.0	13.3	13.4	40.0
831.380000	28.9	1000.0	120.000	150.0	V	11.0	29.4	17.1	46.0

1GHz-18GHz, Horizontal

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)
1299.625000	38.0	1000.0	1000.000	150.0	H	0.0	-12.8	36.0	74.0
6854.905000	44.8	1000.0	1000.000	150.0	H	0.0	4.7	29.2	74.0
15910.595000	55.2	1000.0	1000.000	150.0	H	0.0	17.0	18.8	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)
1299.625000	31.4	1000.0	1000.000	150.0	H	0.0	-12.8	22.6	54.0
6854.905000	33.5	1000.0	1000.000	150.0	H	0.0	4.7	20.5	54.0
15910.595000	44.1	1000.0	1000.000	150.0	H	0.0	17.0	9.9	54.0

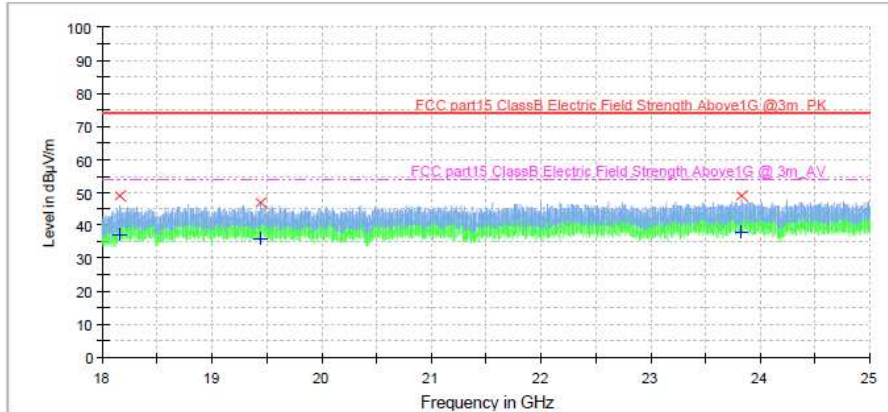
1GHz-18GHz, Vertical

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)
4157.220000	41.3	1000.0	1000.000	150.0	V	0.0	-0.2	32.7	74.0
8144.780000	45.2	1000.0	1000.000	150.0	V	0.0	6.0	28.8	74.0
16071.030000	53.8	1000.0	1000.000	150.0	V	0.0	17.3	20.2	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)
4157.220000	30.6	1000.0	1000.000	150.0	V	0.0	-0.2	23.4	54.0
8144.780000	34.5	1000.0	1000.000	150.0	V	0.0	6.0	19.5	54.0
16071.030000	43.1	1000.0	1000.000	150.0	V	0.0	17.3	10.9	54.0

18GHz-25GHz, Horizontal



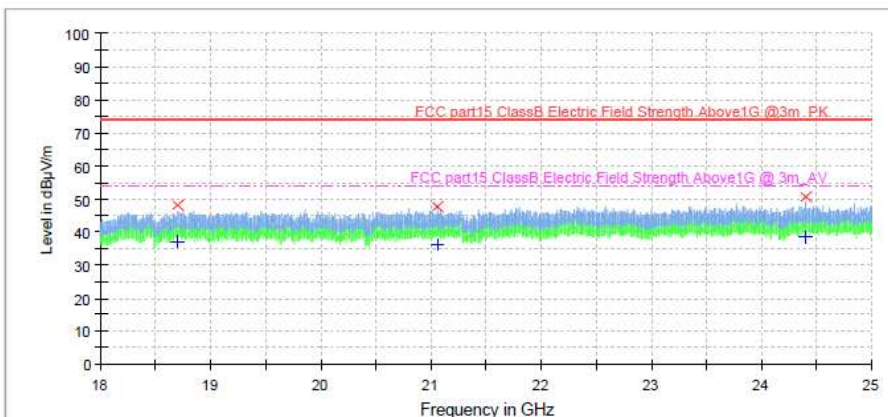
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18161.875000	49.0	1000.0	1000.000	150.0	H	0.0	-9.9	25.0	74.0
19437.185000	47.0	1000.0	1000.000	150.0	H	0.0	-9.9	27.1	74.0
23829.470000	49.0	1000.0	1000.000	150.0	H	0.0	-5.1	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)
18161.875000	37.4	1000.0	1000.000	150.0	H	0.0	-9.9	16.6	54.0
19437.185000	36.1	1000.0	1000.000	150.0	H	0.0	-9.9	17.9	54.0
23829.470000	38.3	1000.0	1000.000	150.0	H	0.0	-5.1	15.7	54.0

18GHz-25GHz, Vertical



Limit and Margin-PK

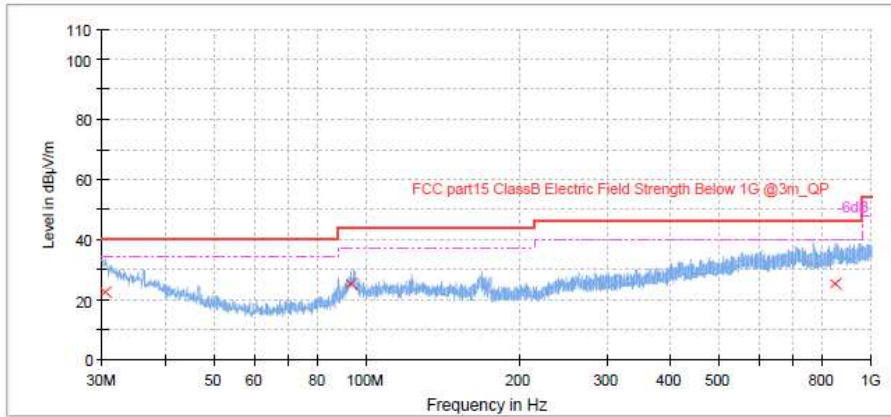
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18695.405000	48.0	1000.0	1000.000	150.0	V	0.0	-9.8	26.0	74.0
21063.155000	47.7	1000.0	1000.000	150.0	V	0.0	-8.1	26.3	74.0
24398.655000	50.7	1000.0	1000.000	150.0	V	0.0	-4.9	23.3	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)
18695.405000	37.3	1000.0	1000.000	150.0	V	0.0	-9.8	16.7	54.0
21063.155000	36.6	1000.0	1000.000	150.0	V	0.0	-8.1	17.4	54.0
24398.655000	38.6	1000.0	1000.000	150.0	V	0.0	-4.9	15.4	54.0

Figure 16: Spectral Diagrams, Radiated Spurious Emission, Mode B.3

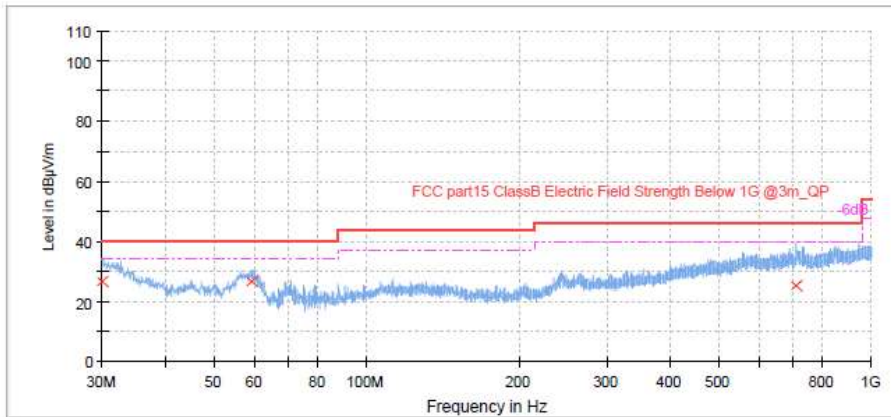
30MHz-1000MHz, Horizontal



Limit and Margin

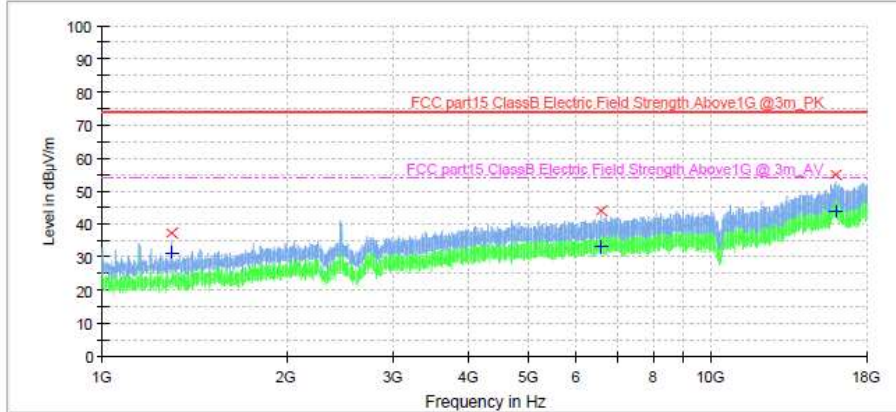
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.480000	22.8	1000.0	120.000	150.0	H	11.0	25.7	17.2	40.0
93.210000	25.5	1000.0	120.000	150.0	H	11.0	16.7	18.0	43.5
849.160000	25.5	1000.0	120.000	150.0	H	11.0	29.3	20.6	46.0

30MHz-1000MHz, Vertical



Limit and Margin

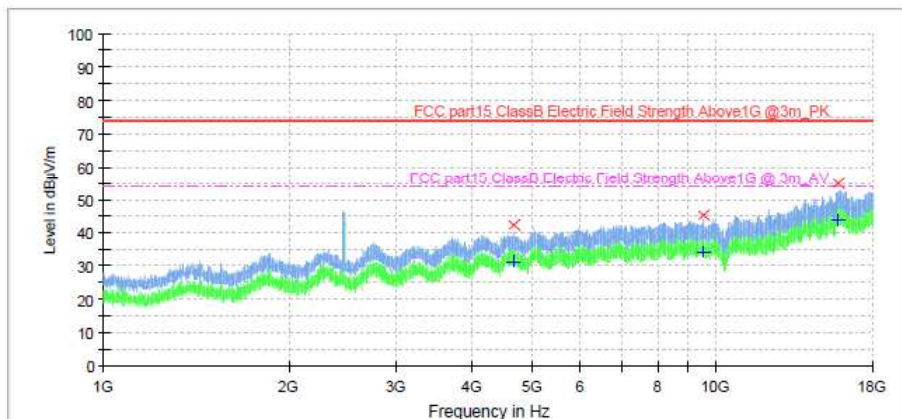
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.050000	26.8	1000.0	120.000	150.0	V	11.0	25.9	13.2	40.0
59.480000	26.5	1000.0	120.000	150.0	V	11.0	13.1	13.5	40.0
710.560000	25.1	1000.0	120.000	150.0	V	11.0	27.8	20.9	46.0

1GHz-18GHz, Horizontal

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)
1299.625000	37.2	1000.0	1000.000	150.0	H	0.0	-12.8	36.8	74.0
6585.560000	44.1	1000.0	1000.000	150.0	H	0.0	4.3	29.9	74.0
16006.220000	55.0	1000.0	1000.000	150.0	H	0.0	17.6	19.0	74.0

Limit and Margin-AV

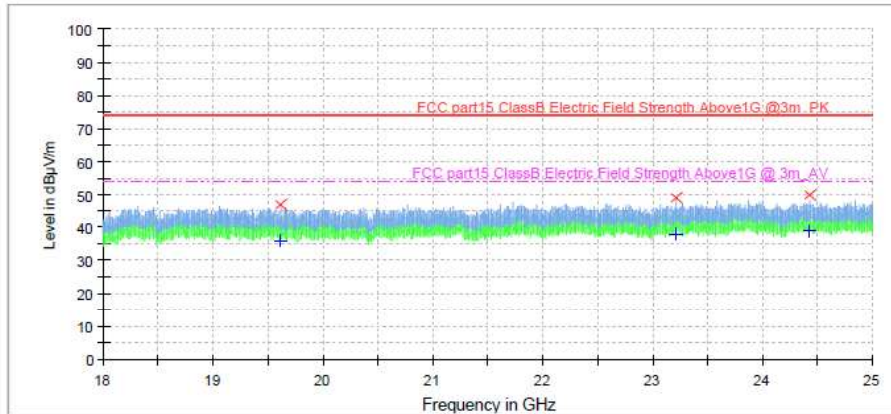
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1299.625000	31.4	1000.0	1000.000	150.0	H	0.0	-12.8	22.6	54.0
6585.560000	32.9	1000.0	1000.000	150.0	H	0.0	4.3	21.1	54.0
16006.220000	44.1	1000.0	1000.000	150.0	H	0.0	17.6	9.9	54.0

1GHz-18GHz, Vertical

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)
4654.470000	42.1	1000.0	1000.000	150.0	V	0.0	0.9	31.9	74.0
9529.750000	45.3	1000.0	1000.000	150.0	V	0.0	6.7	28.7	74.0
15763.970000	54.7	1000.0	1000.000	150.0	V	0.0	16.1	19.3	74.0

Limit and Margin-AV

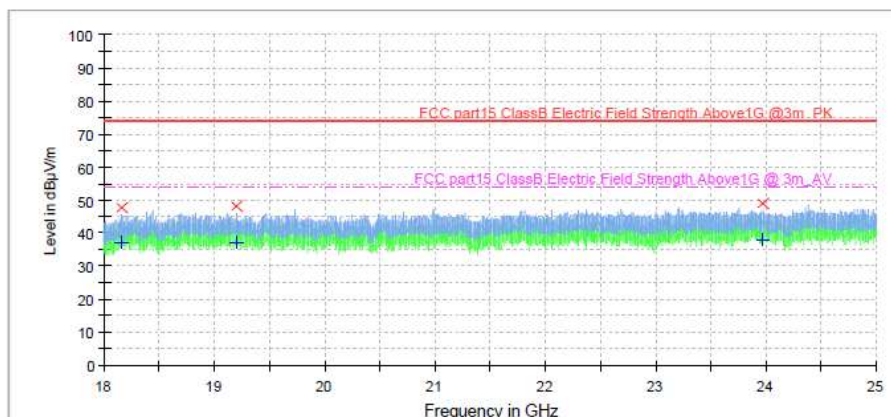
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4654.470000	31.3	1000.0	1000.000	150.0	V	0.0	0.9	22.8	54.0
9529.750000	34.3	1000.0	1000.000	150.0	V	0.0	6.7	19.7	54.0
15763.970000	44.1	1000.0	1000.000	150.0	V	0.0	16.1	10.0	54.0

18GHz-25GHz, Horizontal

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)
19610.000000	46.7	1000.0	1000.000	150.0	H	0.0	-9.8	27.3	74.0
23216.095000	48.8	1000.0	1000.000	150.0	H	0.0	-5.2	25.2	74.0
24422.500000	49.8	1000.0	1000.000	150.0	H	0.0	-4.9	24.3	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)
19610.000000	36.1	1000.0	1000.000	150.0	H	0.0	-9.8	17.9	54.0
23216.095000	37.9	1000.0	1000.000	150.0	H	0.0	-5.2	16.1	54.0
24422.500000	39.1	1000.0	1000.000	150.0	H	0.0	-4.9	14.9	54.0

18GHz-25GHz, Vertical

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)
18157.060000	47.9	1000.0	1000.000	150.0	V	0.0	-9.9	26.1	74.0
19204.875000	48.1	1000.0	1000.000	150.0	V	0.0	-9.9	25.9	74.0
23971.000000	48.8	1000.0	1000.000	150.0	V	0.0	-5.2	25.2	74.0

Limit and Margin-AV

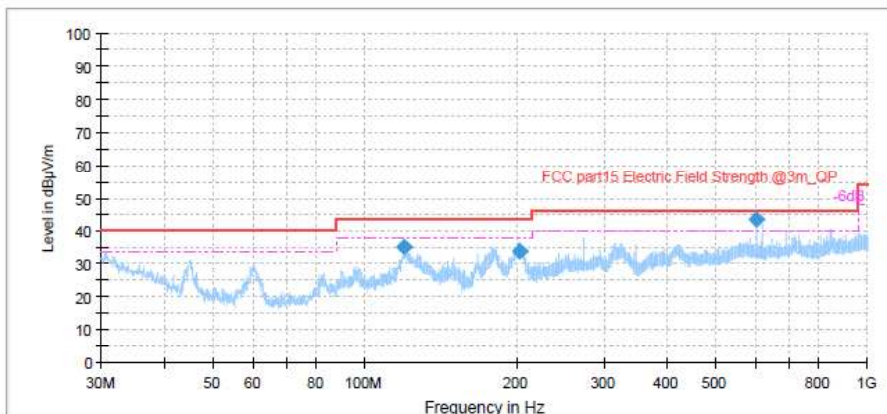
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18157.060000	37.1	1000.0	1000.000	150.0	V	0.0	-9.9	16.9	54.0
19204.875000	37.2	1000.0	1000.000	150.0	V	0.0	-9.9	16.8	54.0
23971.000000	38.0	1000.0	1000.000	150.0	V	0.0	-5.2	16.0	54.0

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

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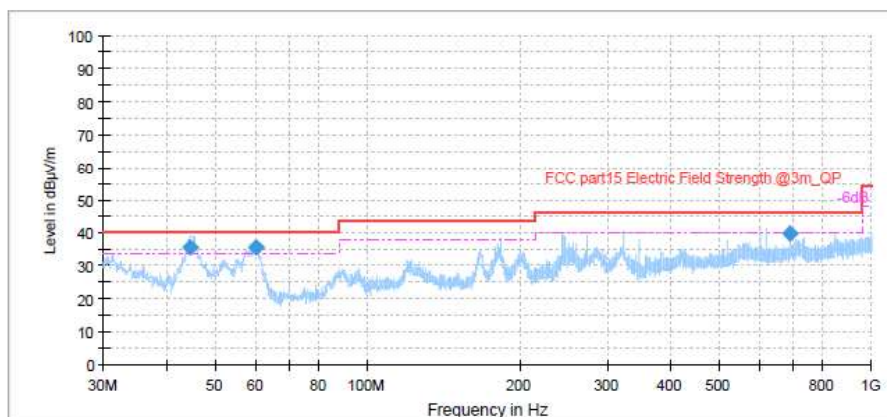
Figure 17: Spectral Diagrams, Radiated Emission, Mode E, Adapter 1
30MHz-1000MHz, Horizontal



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
120.014444	35.05	43.50	8.45	1000.0	120.000	290.0	H	4.0	19.1
202.852222	33.84	43.50	9.66	1000.0	120.000	177.0	H	341.0	17.0
601.579444	43.31	46.00	2.69	1000.0	120.000	150.0	H	224.0	27.4

30MHz-1000MHz, Vertical



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
44.651667	35.61	40.00	4.39	1000.0	120.000	104.0	V	244.0	17.9
60.156111	35.40	40.00	4.60	1000.0	120.000	133.0	V	307.0	13.1
687.532222	39.60	46.00	6.40	1000.0	120.000	210.0	V	11.0	27.8

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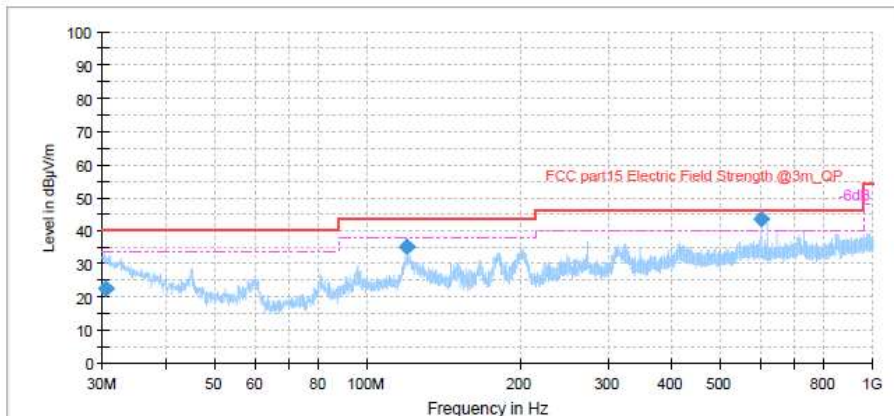
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Figure 18: Spectral Diagrams, Radiated Emission, Mode E, Adapter 2

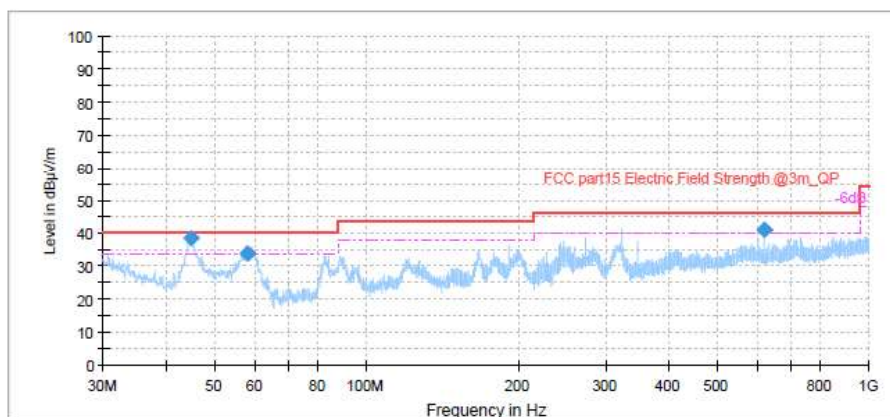
30MHz-1000MHz, Horizontal



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.480000	22.63	40.00	17.37	1000.0	120.000	186.0	H	208.0	25.7
119.974444	34.99	43.50	8.51	1000.0	120.000	250.0	H	29.0	19.1
601.579444	43.70	46.00	2.30	1000.0	120.000	122.0	H	56.0	27.4

30MHz-1000MHz, Vertical



Final Result

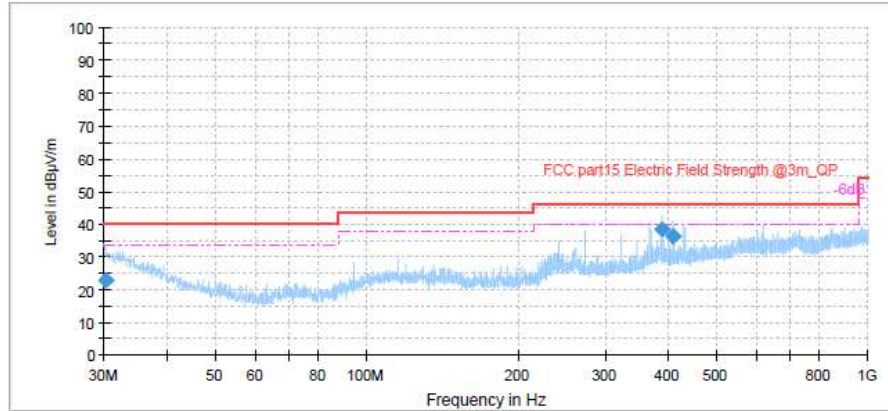
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
44.811667	38.53	40.00	1.47	1000.0	120.000	104.0	V	1.0	17.9
58.120556	33.74	40.00	6.26	1000.0	120.000	137.0	V	298.0	13.4
618.770000	41.15	46.00	4.85	1000.0	120.000	208.0	V	10.0	27.2

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Figure 19: Spectral Diagrams, Radiated Emission, Mode F, Adapter 1

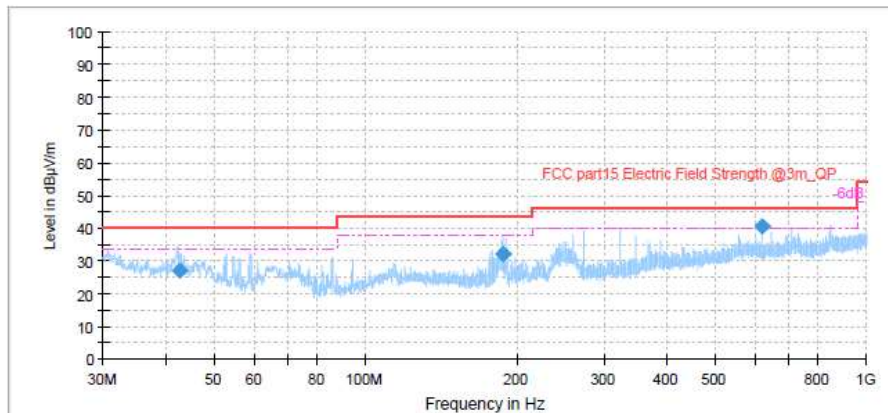
30MHz-1000MHz, Horizontal



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.120000	23.03	40.00	16.97	1000.0	120.000	127.0	H	146.0	25.9
388.422778	38.65	46.00	7.35	1000.0	120.000	194.0	H	244.0	23.2
409.251667	36.41	46.00	9.59	1000.0	120.000	174.0	H	9.0	24.2

30MHz-1000MHz, Vertical



Final Result

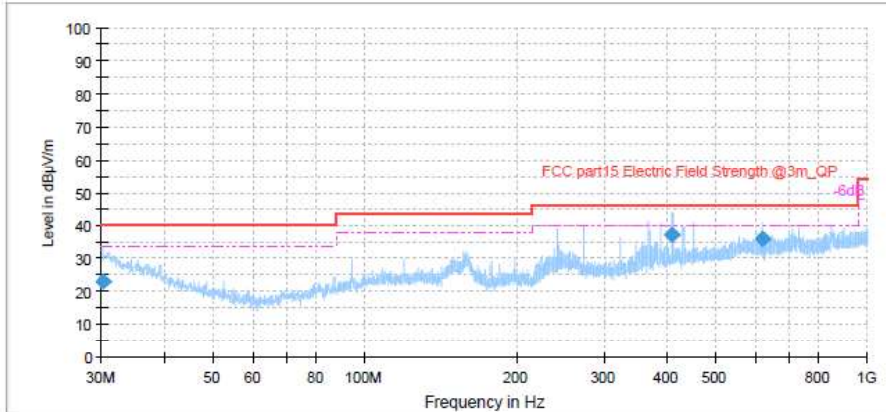
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.478889	27.35	40.00	12.65	1000.0	120.000	111.0	V	276.0	18.7
188.585556	32.24	43.50	11.26	1000.0	120.000	104.0	V	107.0	16.3
618.770000	40.49	46.00	5.51	1000.0	120.000	217.0	V	18.0	27.2

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Figure 20: Spectral Diagrams, Radiated Emission, Mode F, Adapter 2

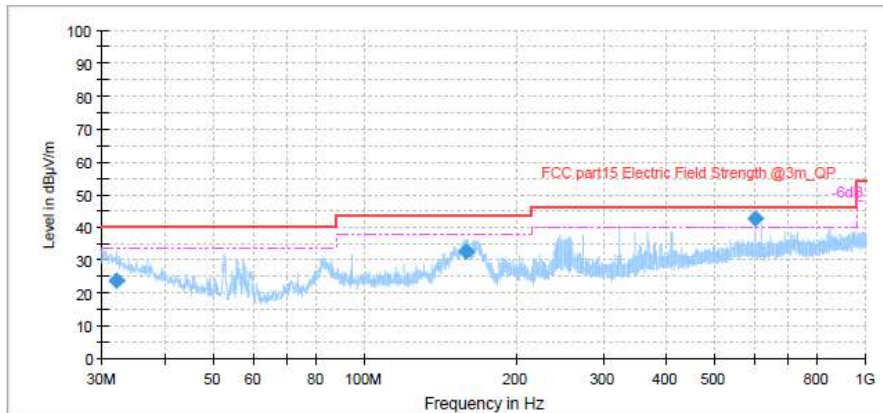
30MHz-1000MHz, Horizontal



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.280000	22.86	40.00	17.14	1000.0	120.000	206.0	H	351.0	25.8
409.185556	37.09	46.00	8.91	1000.0	120.000	193.0	H	248.0	24.2
618.650000	35.96	46.00	10.04	1000.0	120.000	114.0	H	239.0	27.2

30MHz-1000MHz, Vertical



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.107778	23.77	40.00	16.23	1000.0	120.000	114.0	V	350.0	24.4
159.960000	32.51	43.50	10.99	1000.0	120.000	121.0	V	48.0	17.3
601.579444	42.81	46.00	3.19	1000.0	120.000	193.0	V	11.0	27.4

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