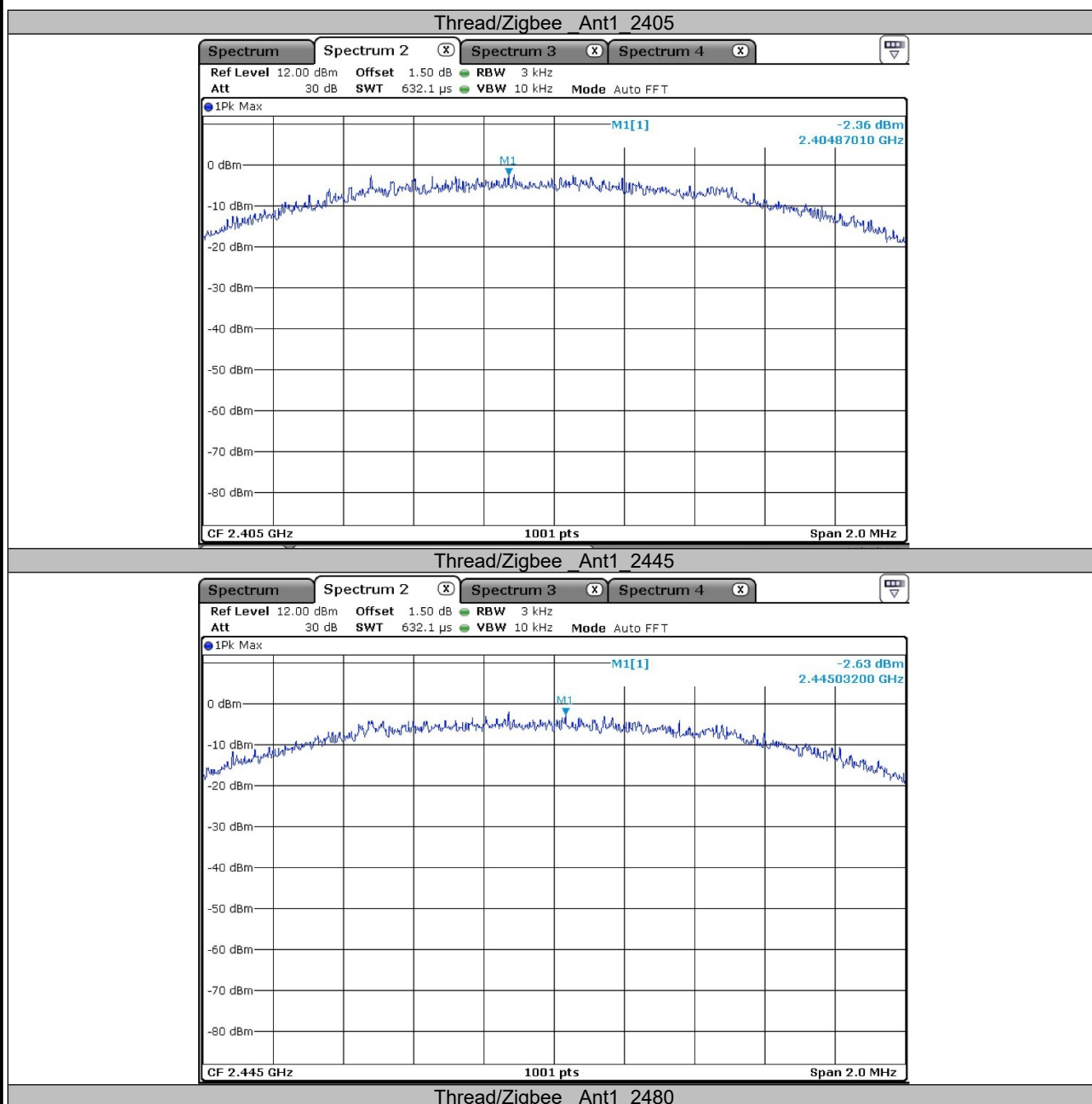


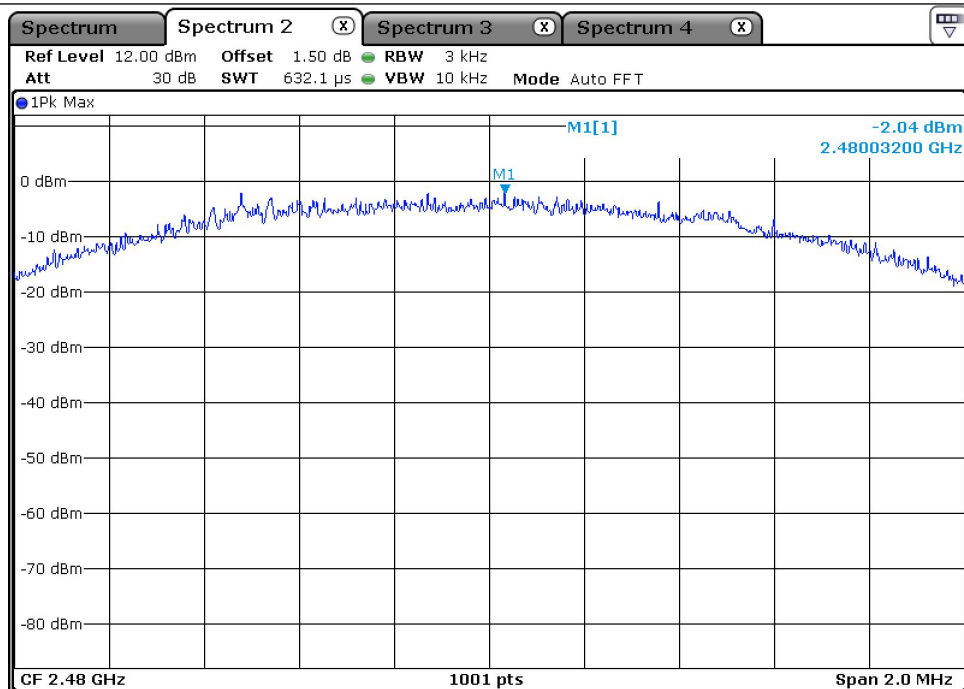
Appendix A: Test Results

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Appendix A.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
Thread/Zigbee	Ant1	2405	-2.36	≤8.00	PASS
		2445	-2.63	≤8.00	PASS
		2480	-2.04	≤8.00	PASS



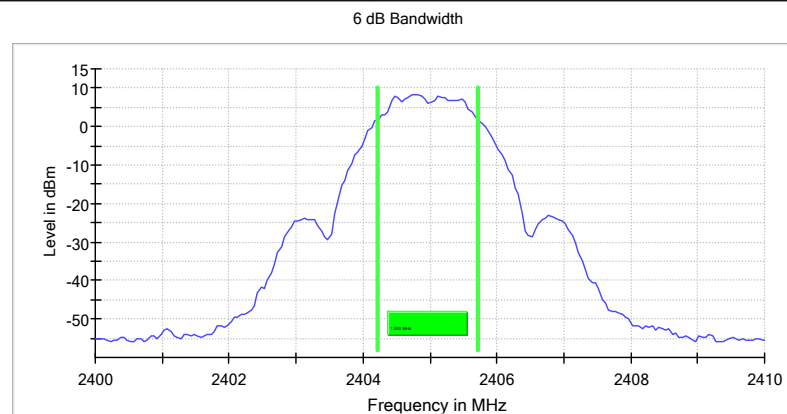


Appendix A.2: Test Results of 6dB Bandwidth

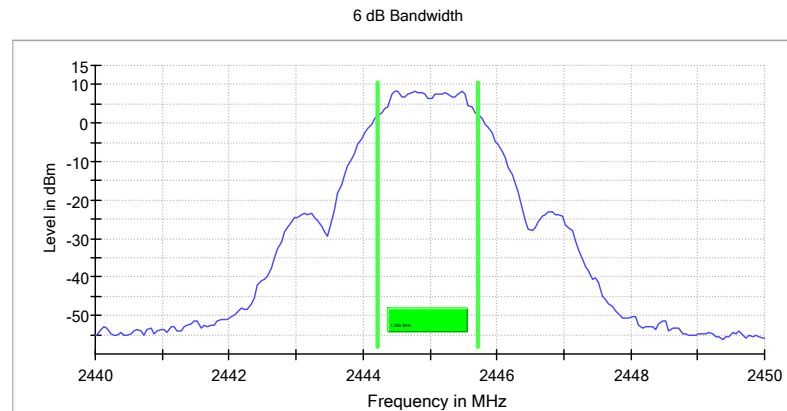
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Thread/Zigbee	Ant1	2405	1.500000	2404.225000	2405.725000	>0.5	PASS
		2445	1.500000	2444.225000	2445.725000	>0.5	PASS
		2480	1.500000	2479.225000	2480.725000	>0.5	PASS

RBW:100kHz, VBW: 300kHz

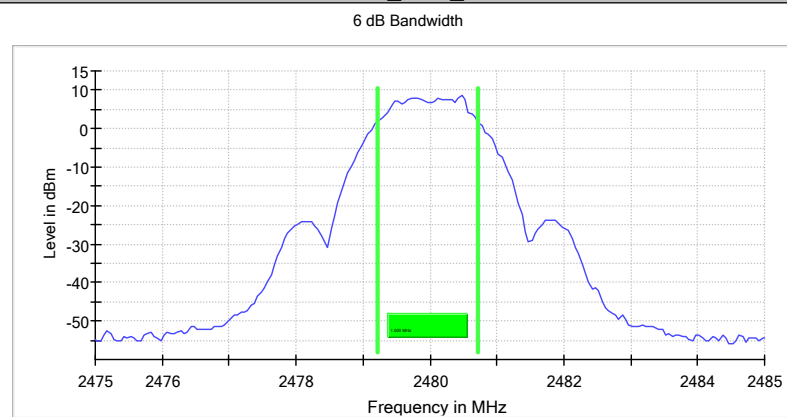
Thread/Zigbee_Ant1_2405



Thread_Ant1_2445



Thread_Ant1_2480

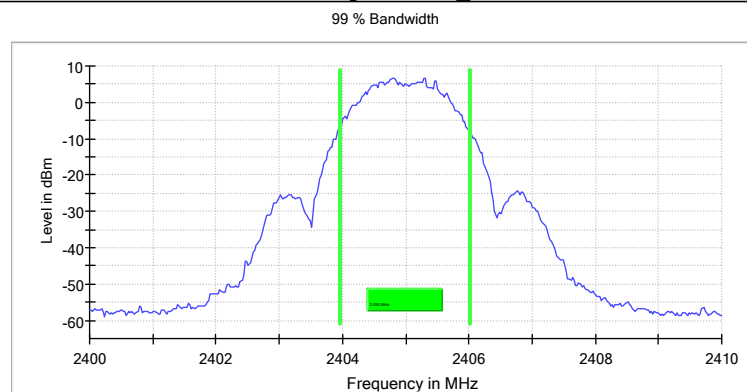


Appendix A.3: Test Results of 99% Bandwidth

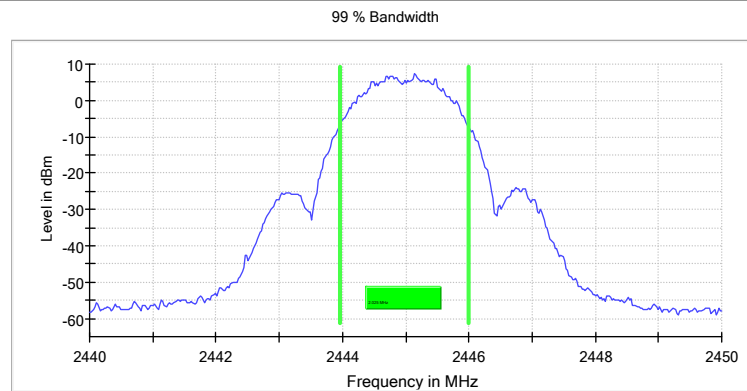
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Thread/Zigbee	Ant1	2405	2.050000	2403.962500	2406.012500	---	PASS
		2445	2.025000	2443.962500	2445.987500	---	PASS
		2480	2.025000	2478.962500	2480.987500	---	PASS

RBW:100kHz, VBW: 300kHz

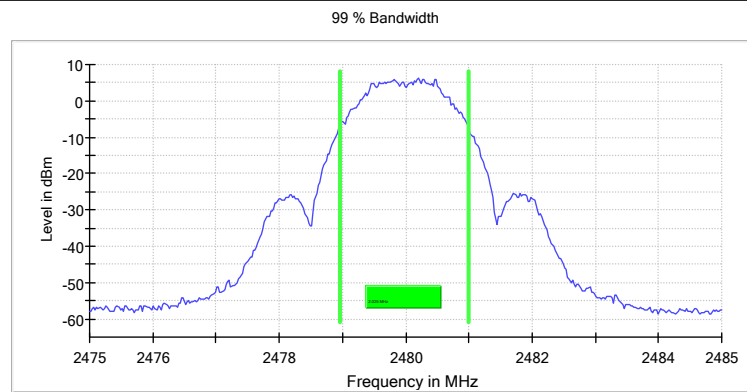
Thread/Zigbee Ant1_2405



Thread/Zigbee_Ant1_2445



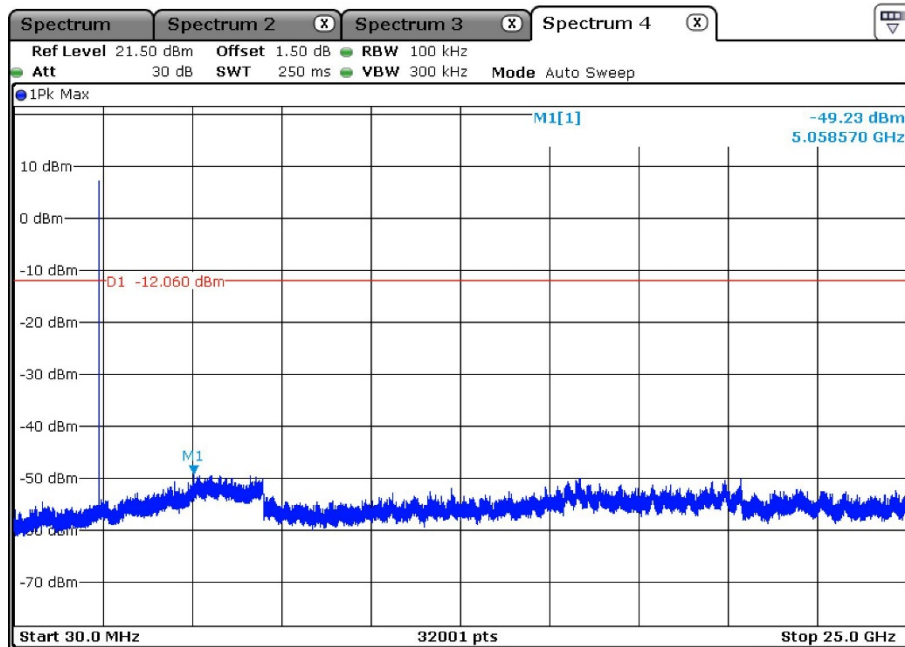
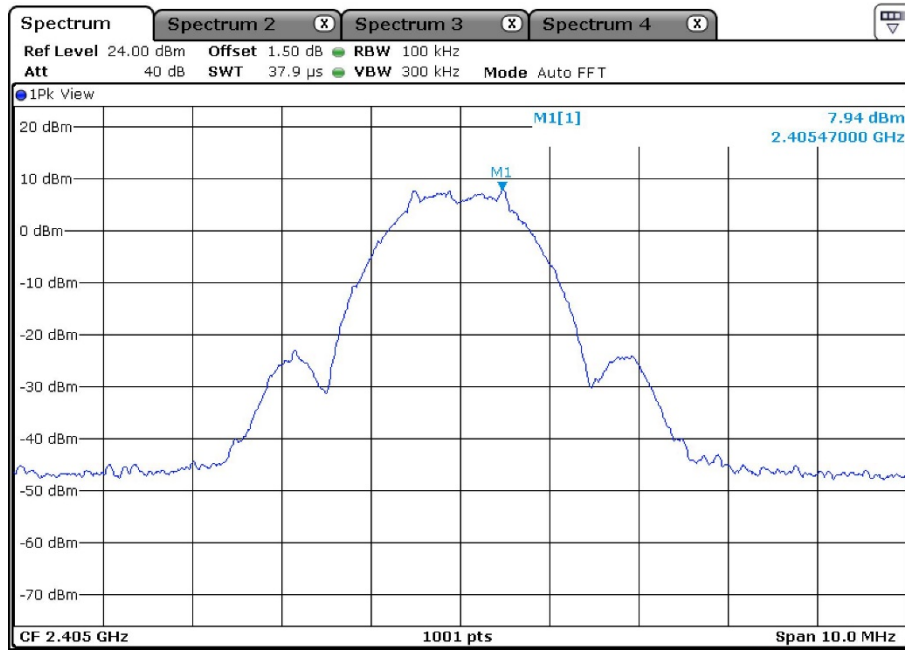
Thread/Zigbee_Ant1_2480



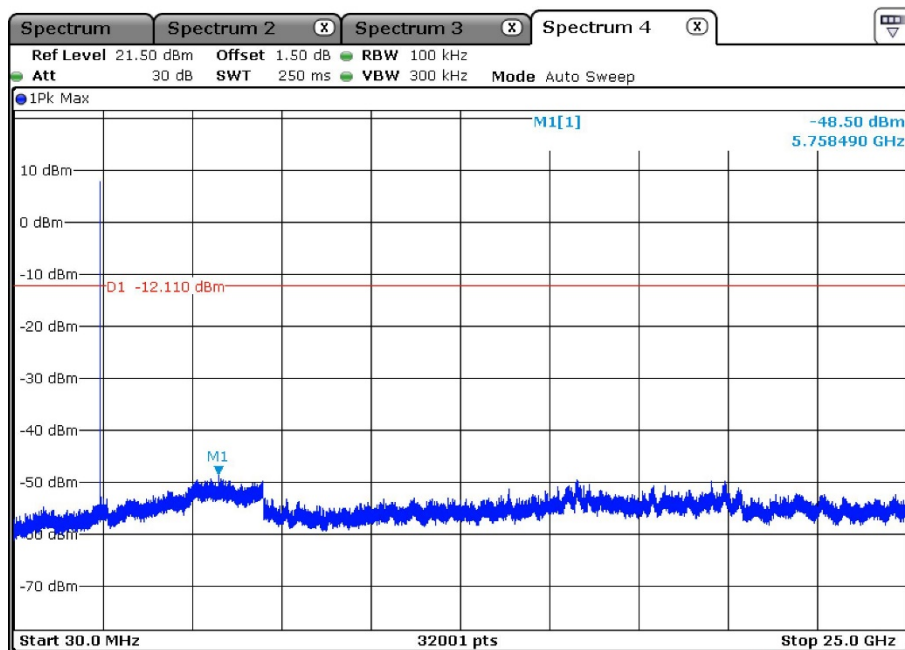
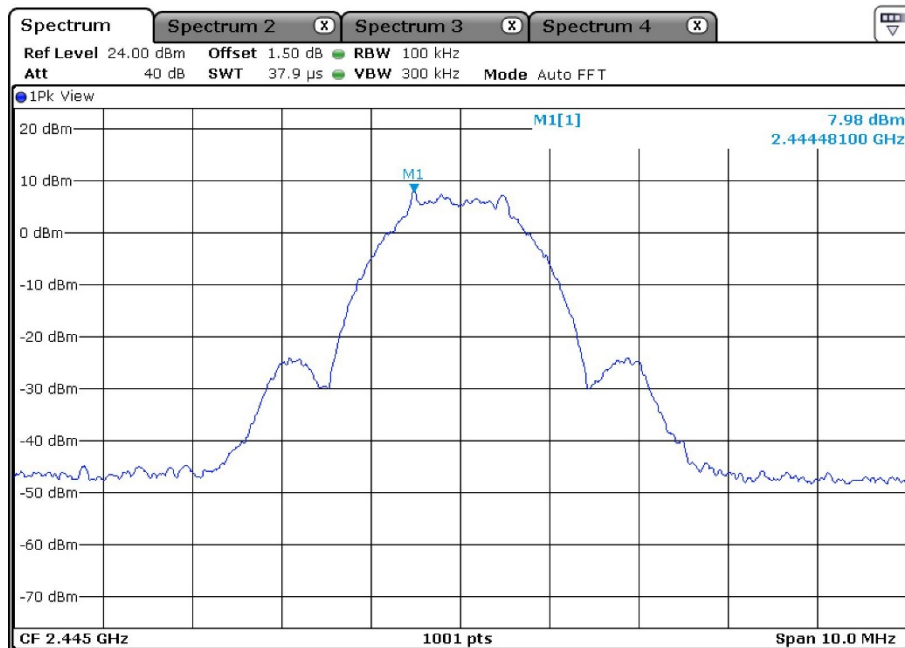
Appendix A.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

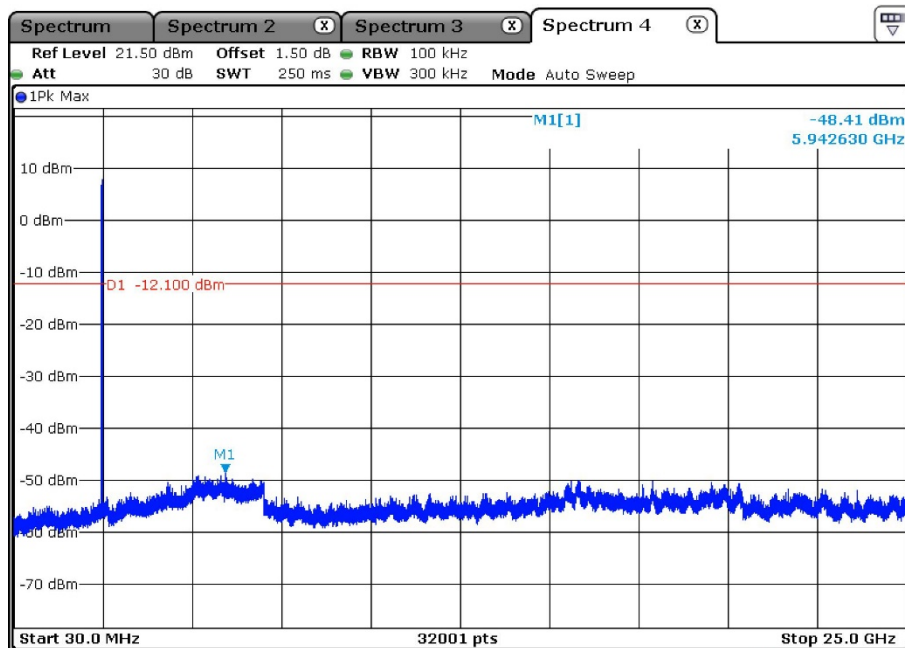
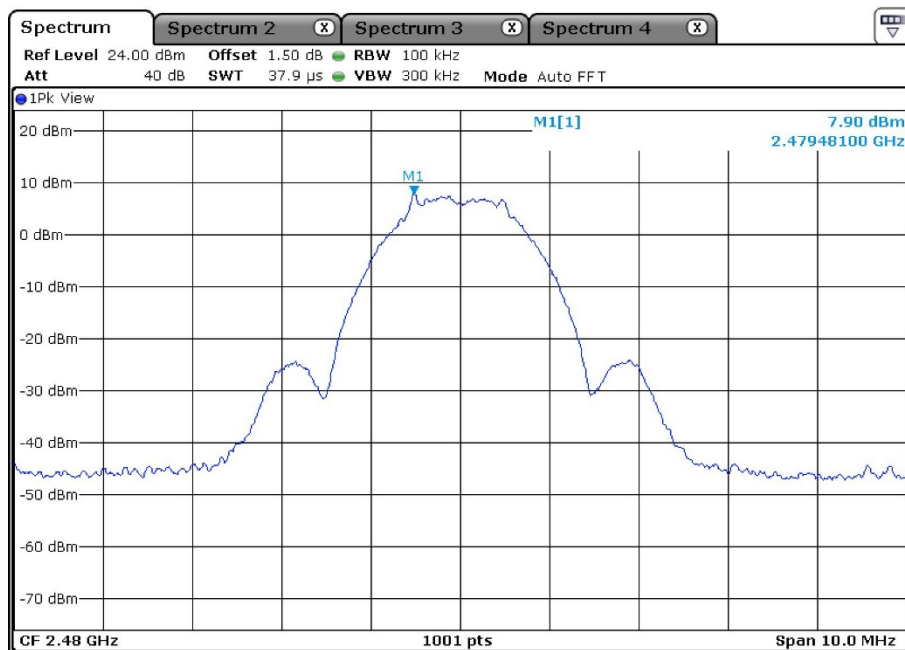
Low Channel:



Middle Channel:

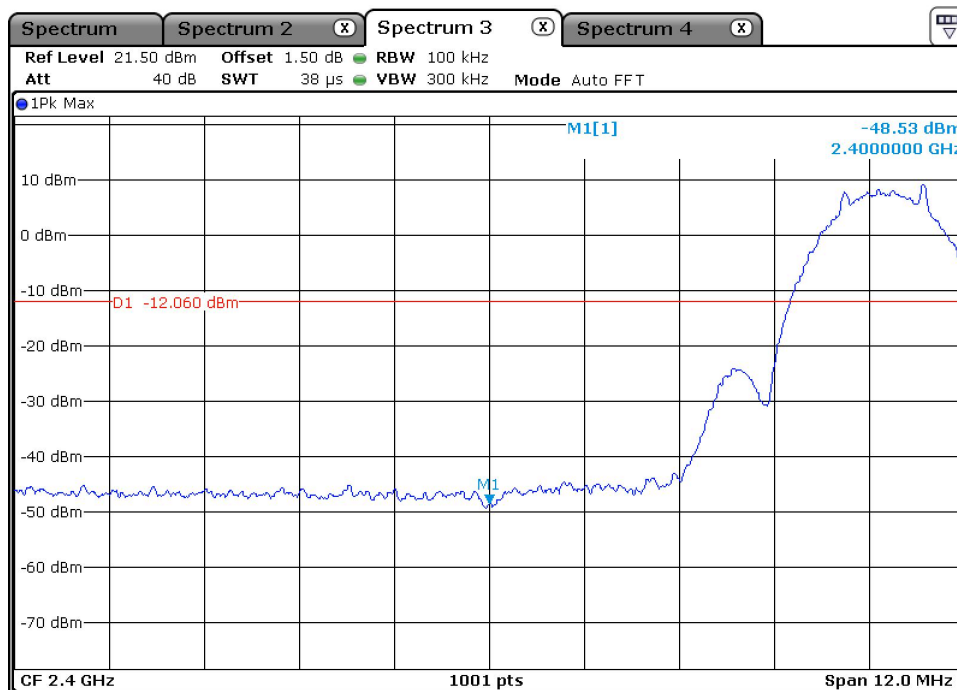


High Channel:

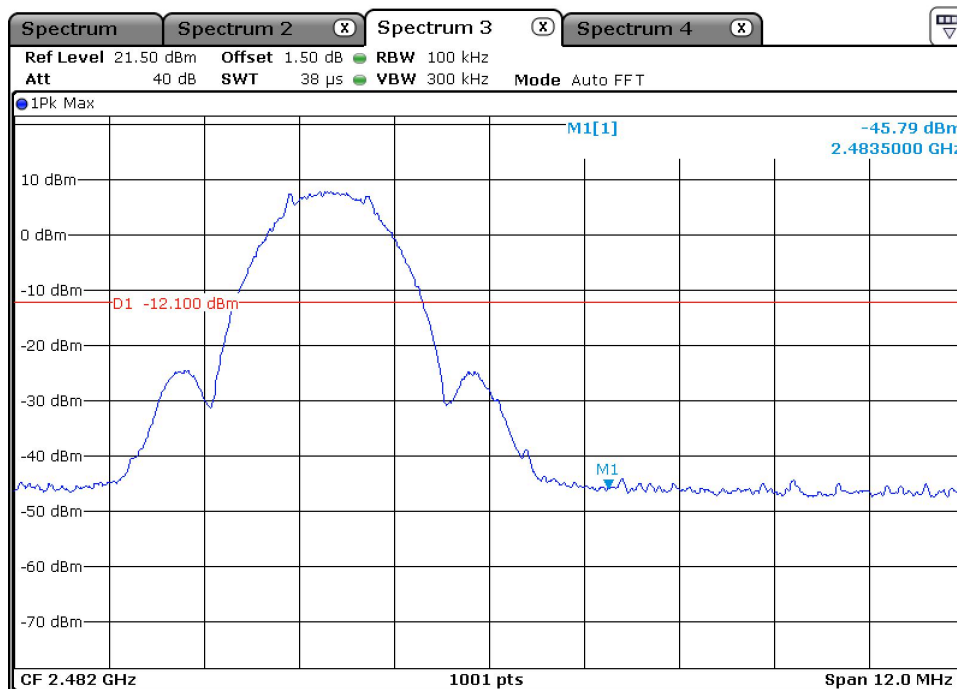


Band Edge

Low Channel:



High Channel:



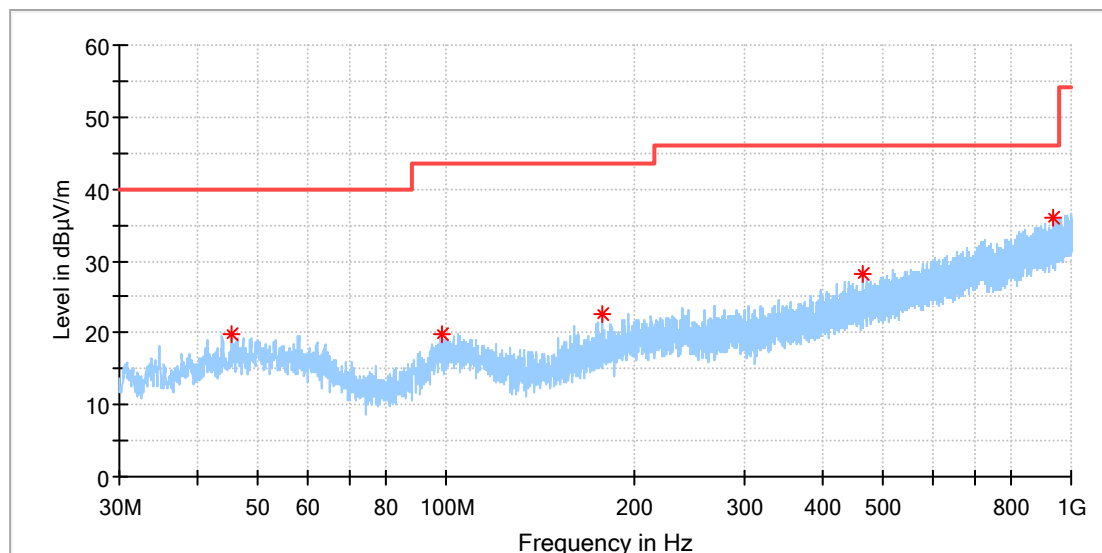
Appendix A.5: Test Results of Radiated Spurious Emissions

Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz to 1GHz

EUT Name:	GRILLPLATS
Model:	E2491-NA
Test Mode:	Mid channel
Order No/Sample No:	168543254/A003935323-005
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



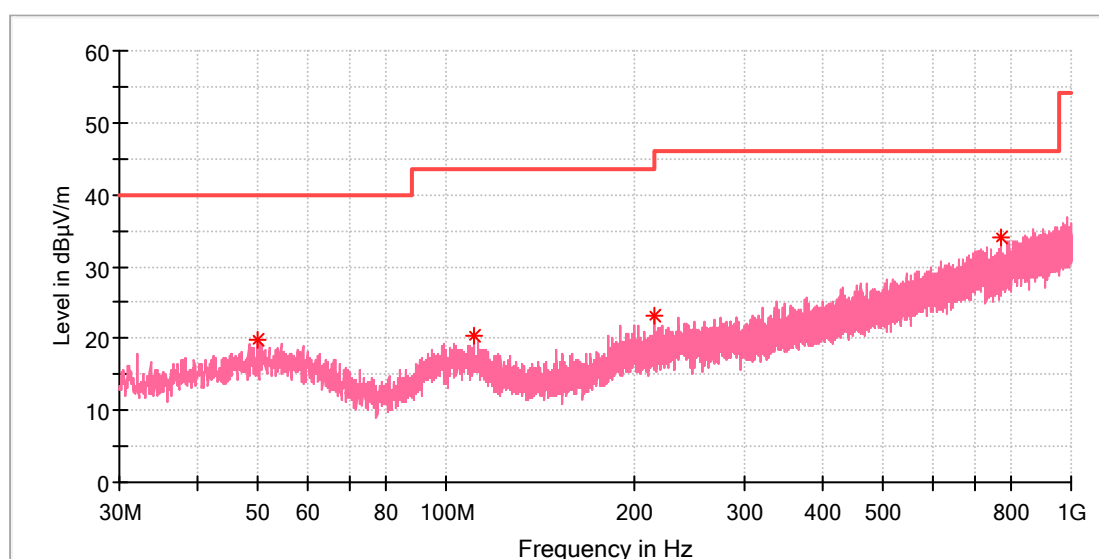
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.333462	19.73	40.00	20.27	100.0	H	123.0	-18.9
98.123846	19.72	43.50	23.78	100.0	H	285.0	-19.4
178.111539	22.68	43.50	20.82	100.0	H	340.0	-20.7
465.045000	28.23	46.00	17.77	100.0	H	316.0	-12.5
936.129231	35.89	46.00	10.11	100.0	H	130.0	-4.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Name: GRILLPLATS
Model: E2491-NA
Test Mode: Mid channel
Order No/Sample No: 168543254/A003935323-005
Test Voltage:: AC 120V, 60Hz
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



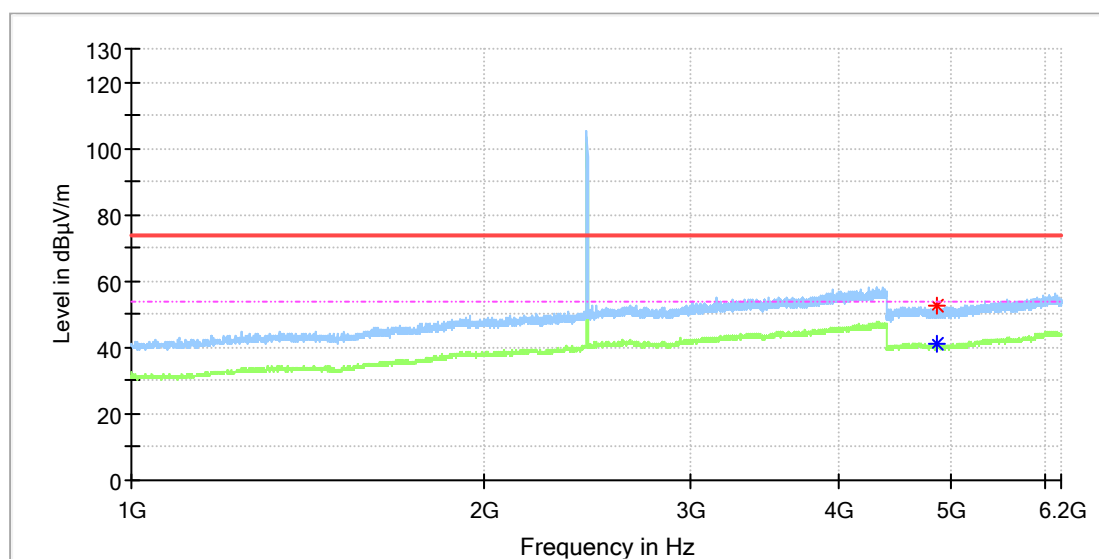
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.847692	19.73	40.00	20.27	100.0	V	187.0	-18.4
110.584615	20.24	43.50	23.26	100.0	V	305.0	-19.3
215.158077	23.06	43.50	20.44	100.0	V	305.0	-18.8
773.169231	34.02	46.00	11.98	100.0	V	235.0	-6.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

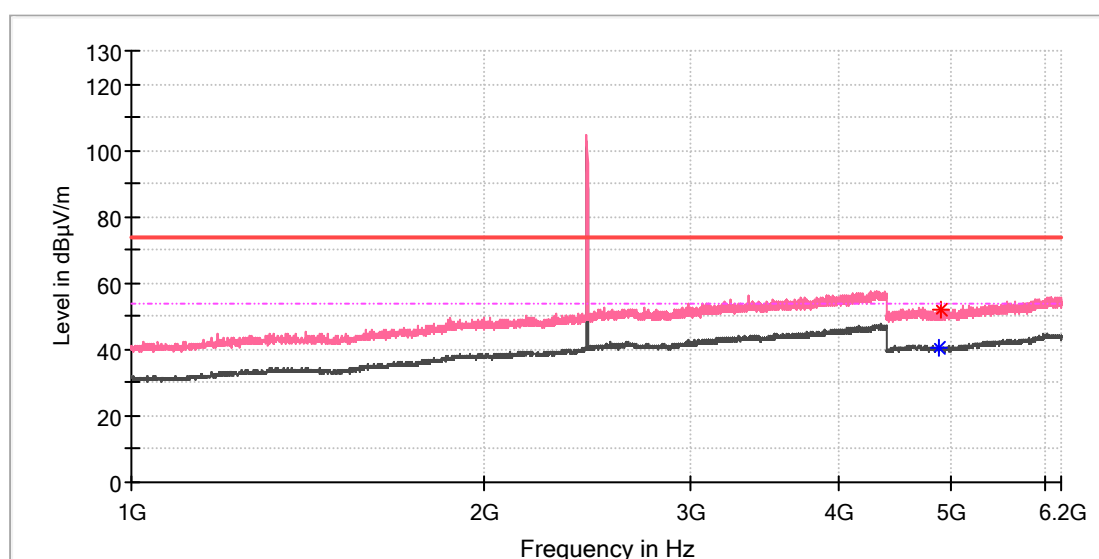
EUT Name:	GRILLPLATS
Model:	E2491-NA
Test Mode:	Mid channel
Order No/Sample No:	168543254/A003935323-005
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4852.000000	52.63	---	74.00	21.37	150.0	H	343.0	13.3
4861.000000	---	41.04	54.00	12.96	150.0	H	259.0	13.3

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.00	100.00	100.00	100.00	100.00	100.00		100.00	100.00

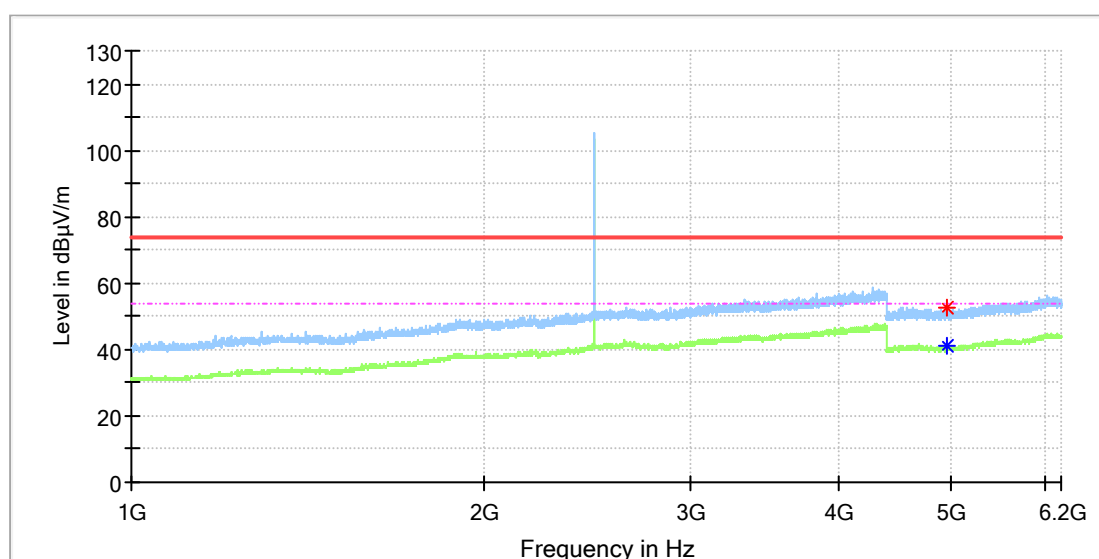
EUT Name:	GRILLPLATS
Model:	E2491-NA
Test Mode:	Mid channel
Order No/Sample No:	168543254/A003935323-005
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.000000	---	40.55	54.00	13.45	150.0	V	240.0	13.3
4898.000000	51.87	---	74.00	22.13	150.0	V	240.0	13.3

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0

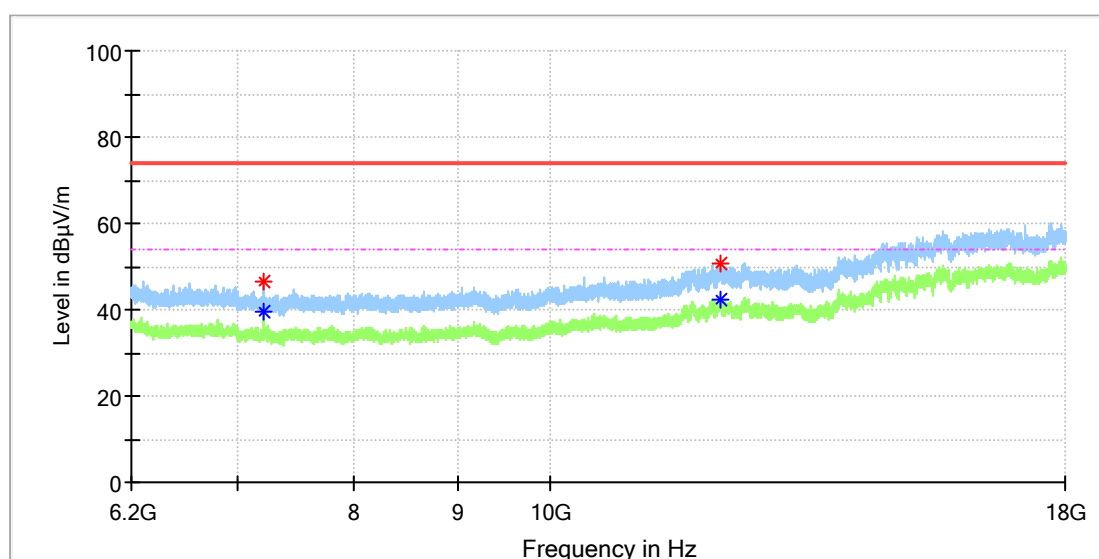
EUT Name:	GRILLPLATS
Model:	E2491-NA
Test Mode:	High channel
Order No/Sample No:	168543254/A003935323-005
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.000000	52.36	---	74.00	21.64	150.0	H	9.0	13.3
4959.000000	---	41.00	54.00	13.00	150.0	H	9.0	13.3

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

EUT Name:	GRILLPLATS
Model:	E2491-NA
Test Mode:	Low channel
Order No/Sample No:	168543254/A003935323-005
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

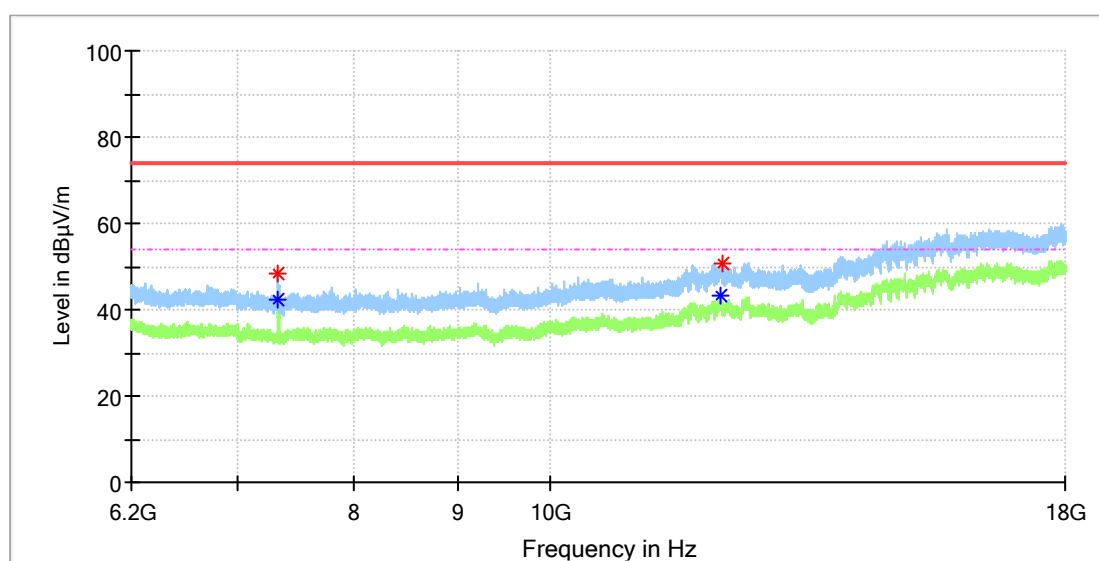
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7212.833333	46.60	---	74.00	27.40	150.0	H	3.0	8.7
7213.816667	---	39.73	54.00	14.27	150.0	H	3.0	8.7
12139.333333	50.50	---	74.00	23.50	150.0	H	269.0	16.5
12151.625000	---	42.47	54.00	11.53	150.0	H	110.0	16.6

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
----	----	----	----	----	----		----	-----

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
----	----	----	----	----	----		----	----

EUT Name:	GRILLPLATS
Model:	E2491-NA
Test Mode:	Mid channel
Order No/Sample No:	168543254/A003935323-005
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



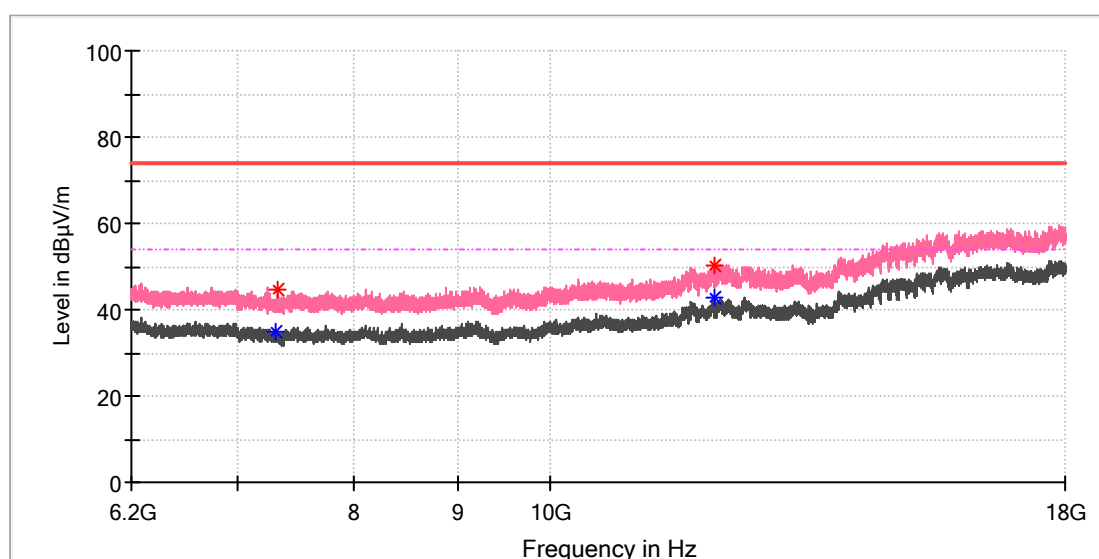
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7333.291667	48.48	---	74.00	25.52	150.0	H	0.0	8.1
7333.291667	---	42.11	54.00	11.89	150.0	H	0.0	8.1
12153.100000	---	43.31	54.00	10.69	150.0	H	19.0	16.6
12175.225000	50.49	---	74.00	23.51	150.0	H	31.0	15.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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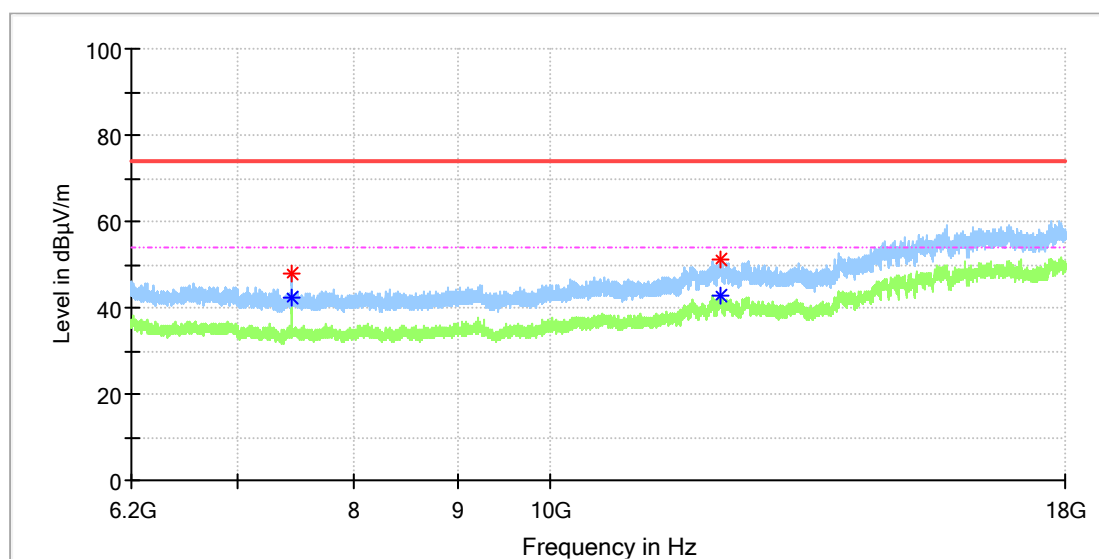
EUT Name:	GRILLPLATS
Model:	E2491-NA
Test Mode:	Mid channel
Order No/Sample No:	168543254/A003935323-005
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7301.825000	---	35.01	54.00	18.99	150.0	V	311.0	8.3
7334.766667	44.59	---	74.00	29.41	150.0	V	334.0	8.1
12051.325000	---	42.56	54.00	11.44	150.0	V	6.0	16.3
12052.800000	50.05	---	74.00	23.95	150.0	V	193.0	16.1

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
----	----	----	----	----	----		----	----

EUT Name:	GRILLPLATS
Model:	E2491-NA
Test Mode:	High channel
Order No/Sample No:	168543254/A003935323-005
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7438.508333	---	42.24	54.00	11.76	150.0	H	0.0	8.4
7441.458333	48.08	---	74.00	25.92	150.0	H	2.0	8.4
12138.841667	51.23	---	74.00	22.77	150.0	H	24.0	16.4
12150.150000	---	42.97	54.00	11.03	150.0	H	181.0	16.7

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
----	----	----	----	----	----		----	----

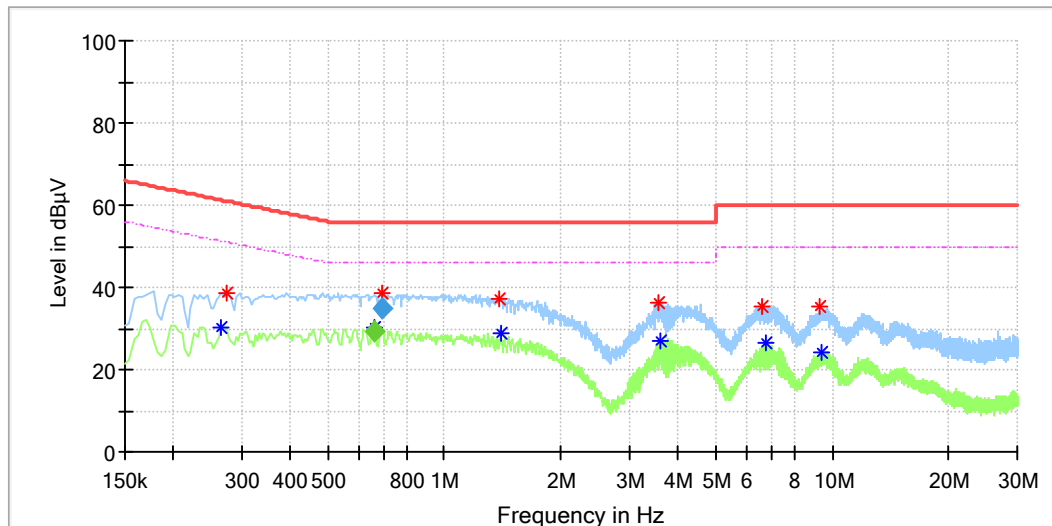
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
----	----	----	----	----	----		----	----

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 MHz	93.750 MHz	93.750 MHz	93.750 MHz	93.750 MHz		93.750 MHz	93.750 MHz

Appendix A.7: Test Results of Conducted Emission

EUT Name: GRILLPLATS
Model: E2491-NA
Test Mode: C
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Tem./Hum./Pressure: 24.9°C/50.3%/101kPa
Remark: SR3



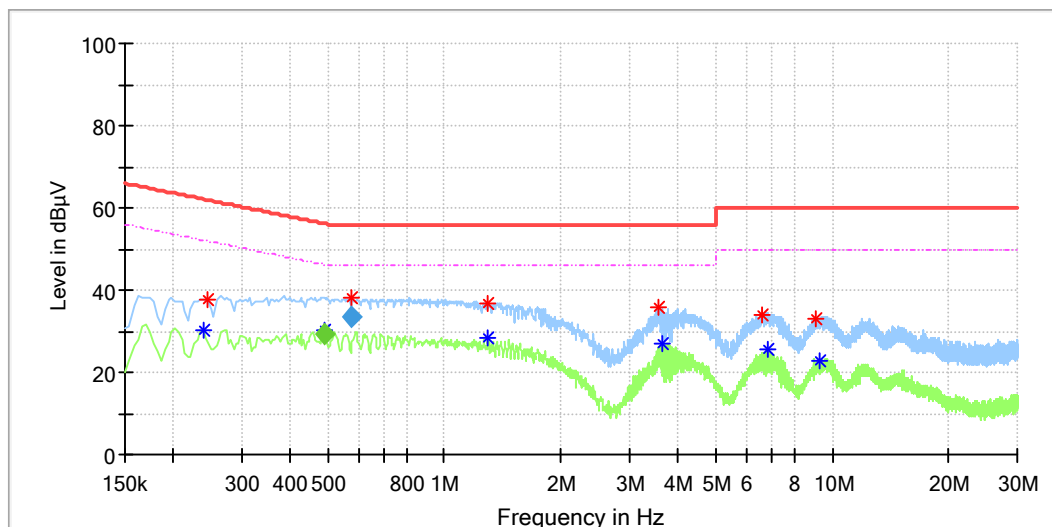
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.266000	---	30.46	51.24	20.79	L1	9.8
0.274000	38.69	---	61.00	22.31	L1	9.8
0.657500	---	30.18	46.00	15.83	L1	9.9
0.693500	38.50	---	56.00	17.50	L1	9.9
1.386000	37.15	---	56.00	18.85	L1	10.0
1.398000	---	28.79	46.00	17.21	L1	10.0
3.562000	36.50	---	56.00	19.50	L1	10.1
3.598000	---	26.81	46.00	19.19	L1	10.1
6.594000	35.56	---	60.00	24.44	L1	10.2
6.718000	---	26.51	50.00	23.49	L1	10.2
9.326000	35.12	---	60.00	24.88	L1	10.2
9.386000	---	24.39	50.00	25.61	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.657500	---	29.48	46.00	16.52	1000.0	9.000	L1	9.9
0.693500	35.00	---	56.00	21.00	1000.0	9.000	L1	9.9

EUT Name: GRILLPLATS
 Model: E2491-NA
 Test Mode: C
 Test Voltage: AC 120V/60Hz
 Test Standard: FCC Part 15
 Tem./Hum./Pressure: 24.9°C/50.3%/101kPa
 Remark: SR3



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.238000	---	30.31	52.17	21.85	N	9.7
0.246000	37.67	---	61.89	24.22	N	9.7
0.489500	---	30.13	46.17	16.04	N	9.7
0.577500	38.13	---	56.00	17.87	N	9.7
1.294000	36.78	---	56.00	19.22	N	9.8
1.298000	---	28.27	46.00	17.73	N	9.8
3.578000	35.83	---	56.00	20.17	N	9.8
3.642000	---	27.12	46.00	18.88	N	9.8
6.570000	33.96	---	60.00	26.04	N	9.8
6.826000	---	25.68	50.00	24.32	N	9.8
9.106000	33.05	---	60.00	26.95	N	9.9
9.226000	---	22.95	50.00	27.05	N	9.9

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.489500	---	29.24	46.18	16.93	1000.0	9.000	N	9.7
0.577500	33.57	---	56.00	22.43	1000.0	9.000	N	9.7