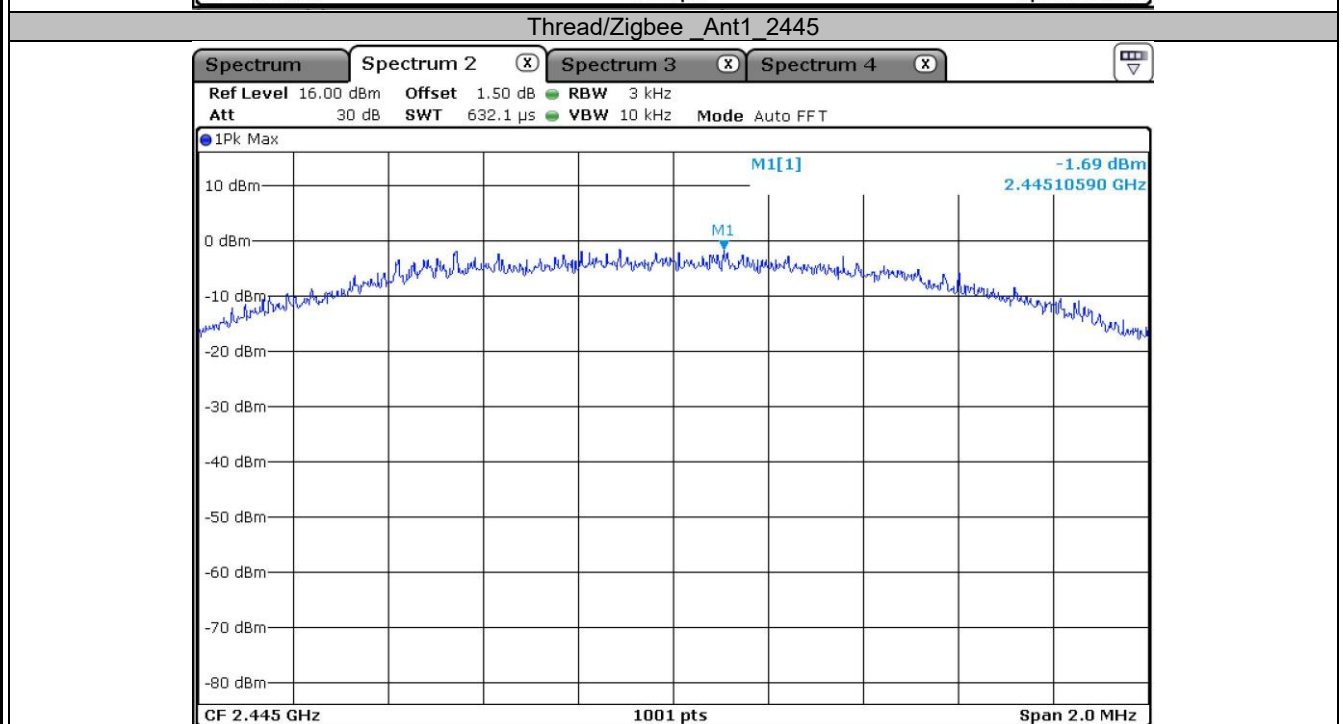
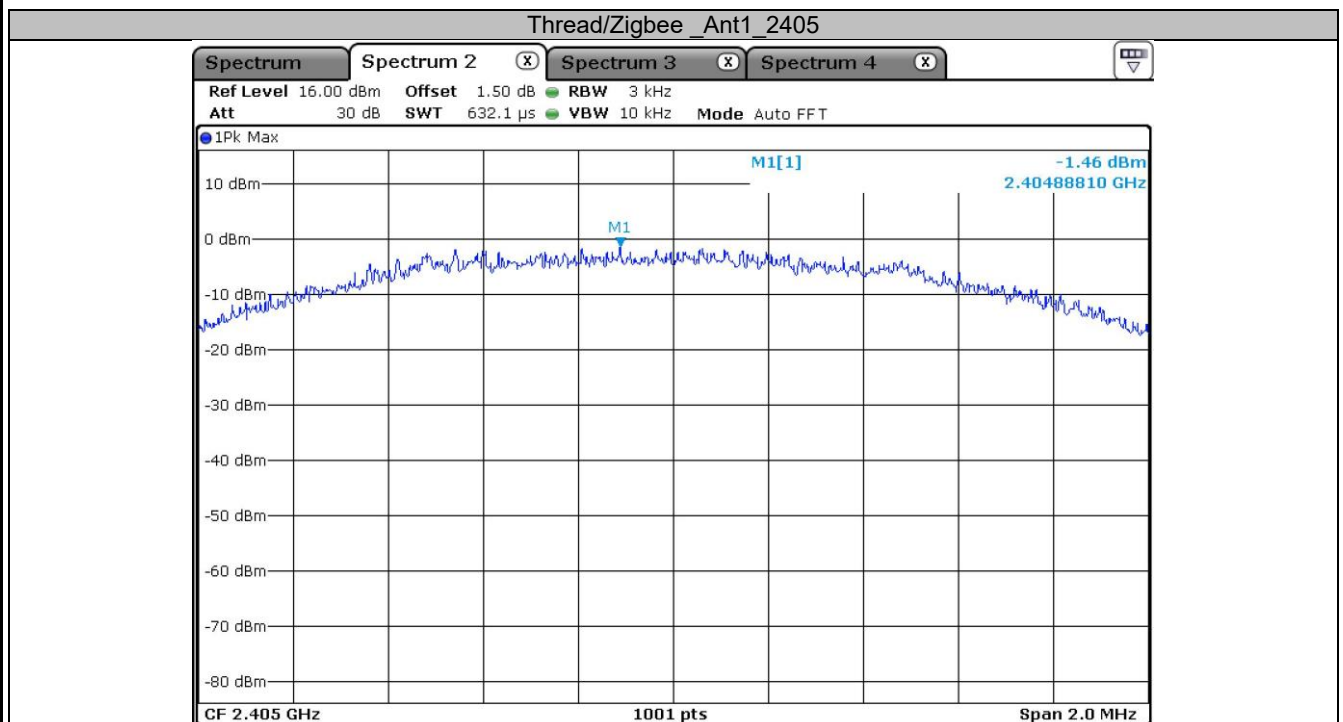


Appendix A: Test Results

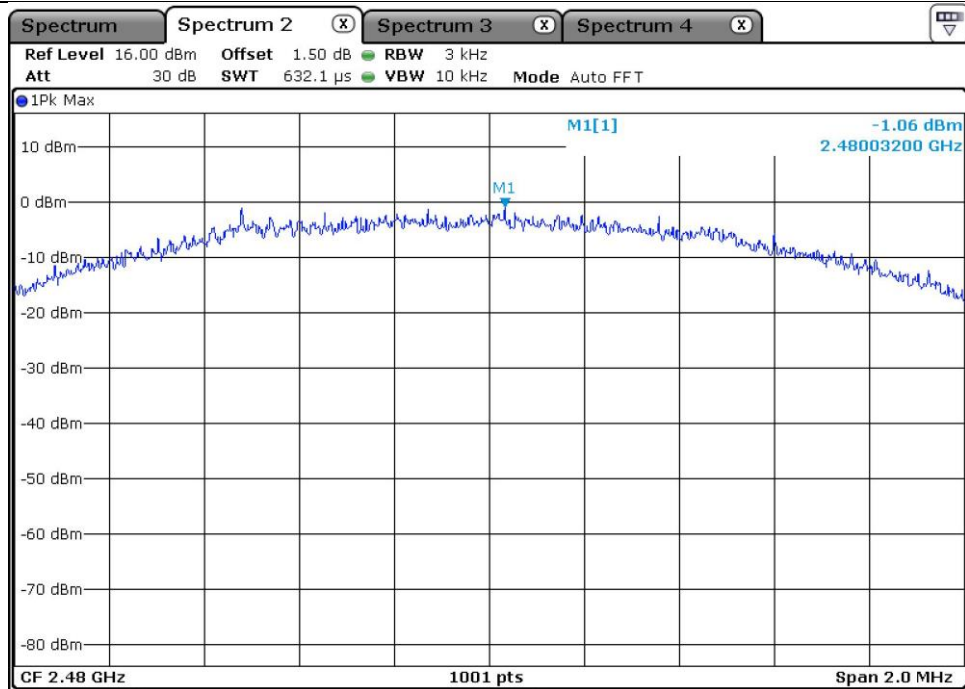
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Appendix A.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
Thread/Zigbee	Ant1	2405	-1.46	≤8.00	PASS
		2445	-1.69	≤8.00	PASS
		2480	-1.06	≤8.00	PASS



Thread/Zigbee_Ant1_2480

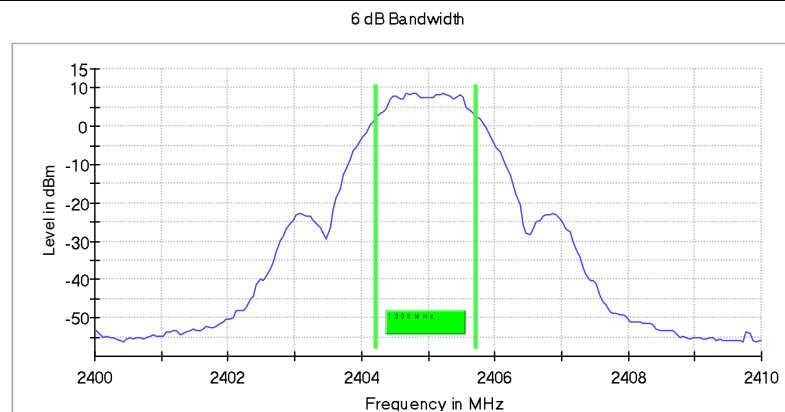


Appendix A.2: Test Results of 6dB Bandwidth

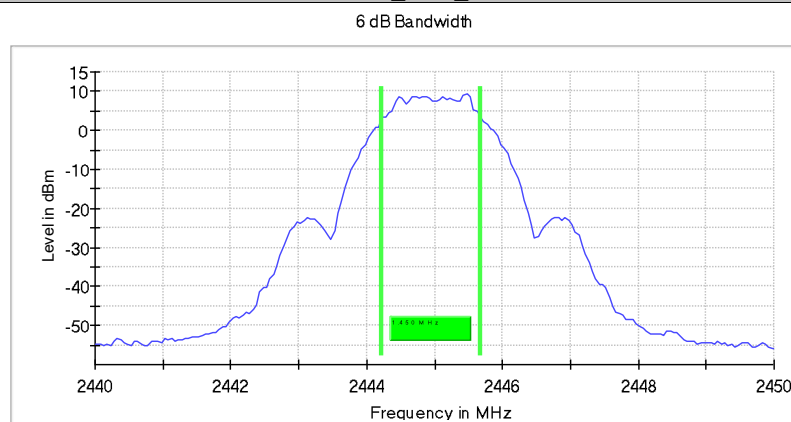
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Thread/Zigbee	Ant1	2405	1.500000	2404.225000	2405.725000	>0.5	PASS
		2445	1.500000	2444.225000	2445.725000	>0.5	PASS
		2480	1.500000	2479.225000	2480.725000	>0.5	PASS

RBW: 100kHz, VBW: 300kHz

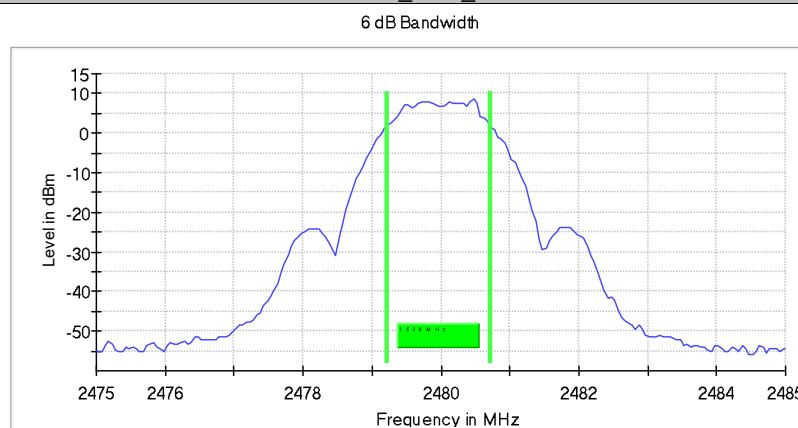
Thread/Zigbee_Ant1_2405



Thread_Ant1_2445



Thread_Ant1_2480

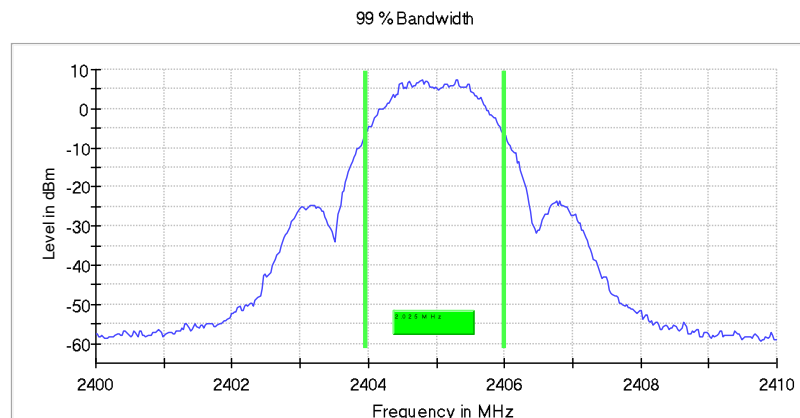


Appendix A.3: Test Results of 99% Bandwidth

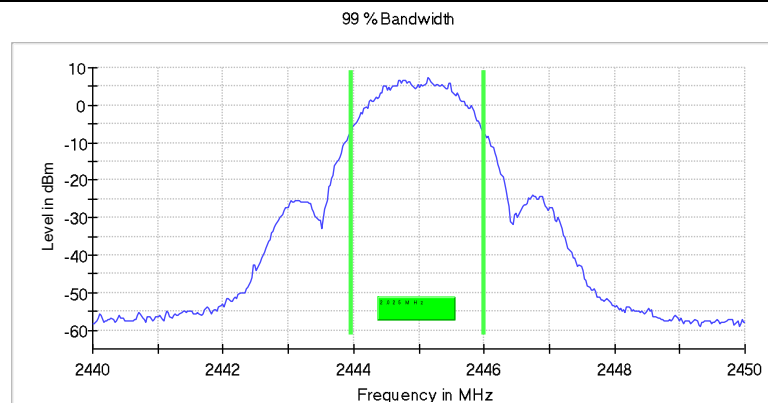
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Thread/Zigbee	Ant1	2405	2.050000	2403.962500	2406.012500	---	PASS
		2445	2.025000	2443.962500	2445.987500	---	PASS
		2480	2.025000	2478.962500	2480.987500	---	PASS

RBW: 30kHz, VBW:100kHz

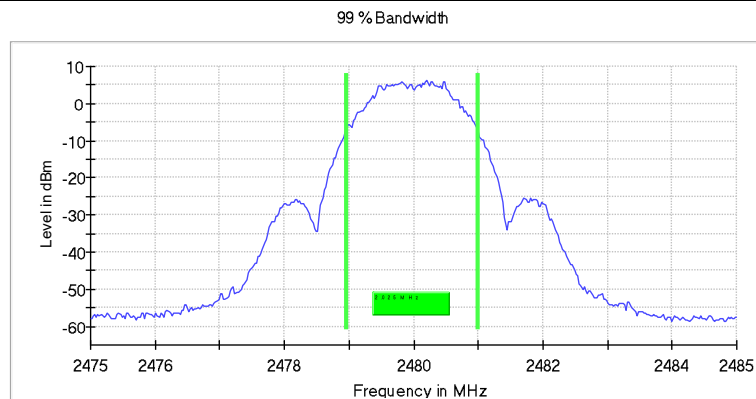
Thread/Zigbee Ant1_2405



Thread/Zigbee Ant1_2445



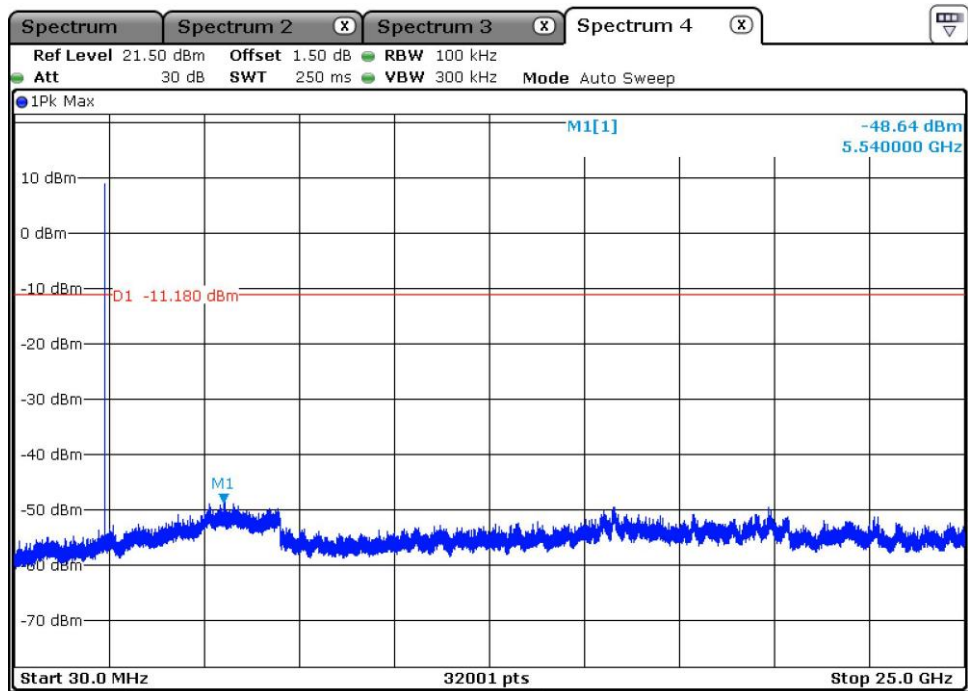
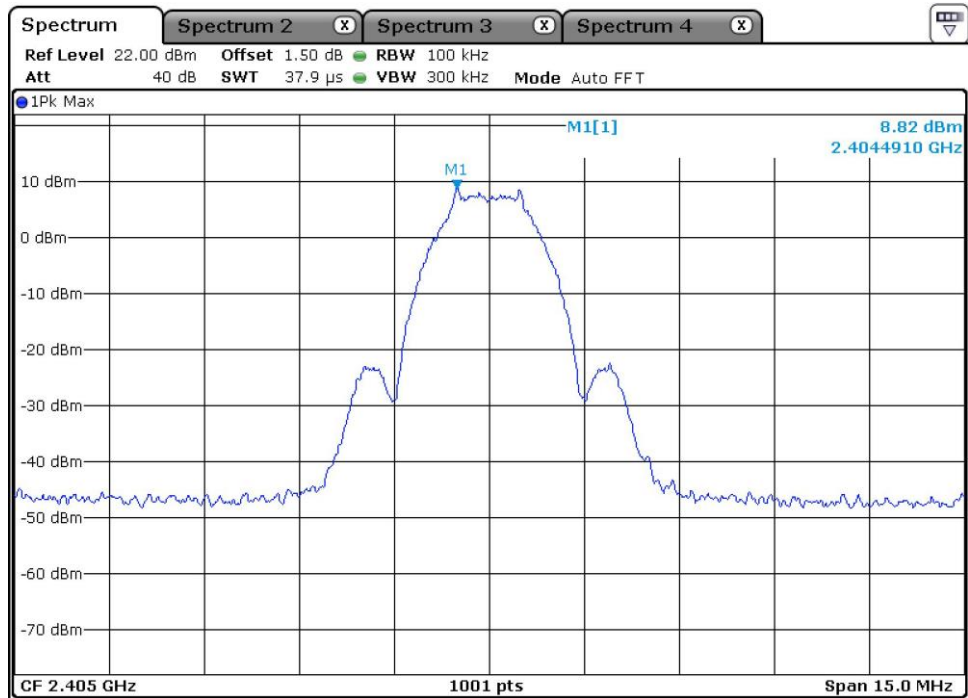
Thread/Zigbee Ant1_2480



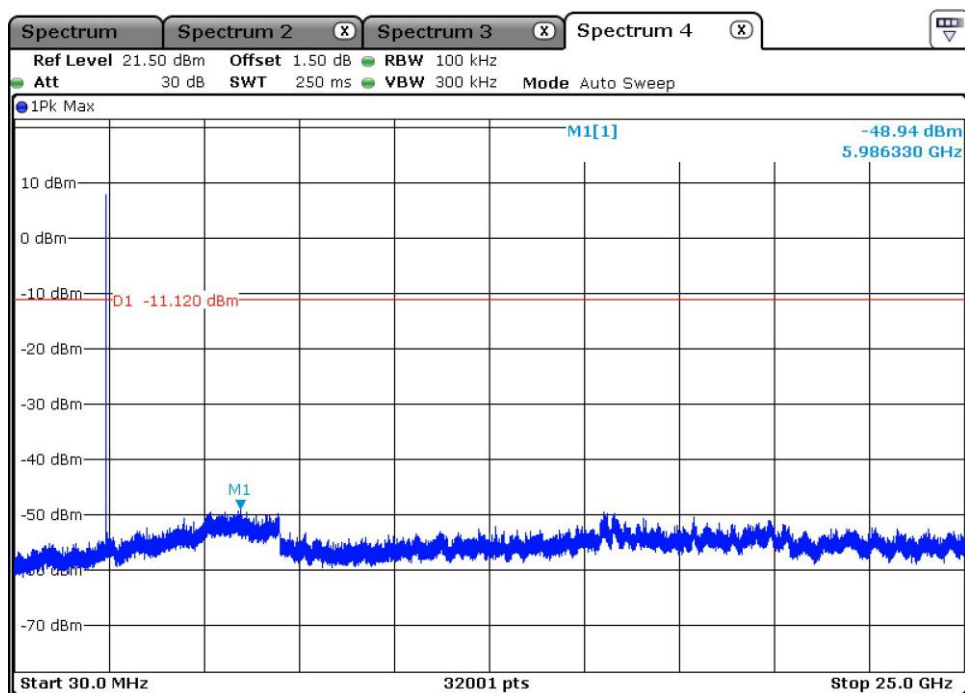
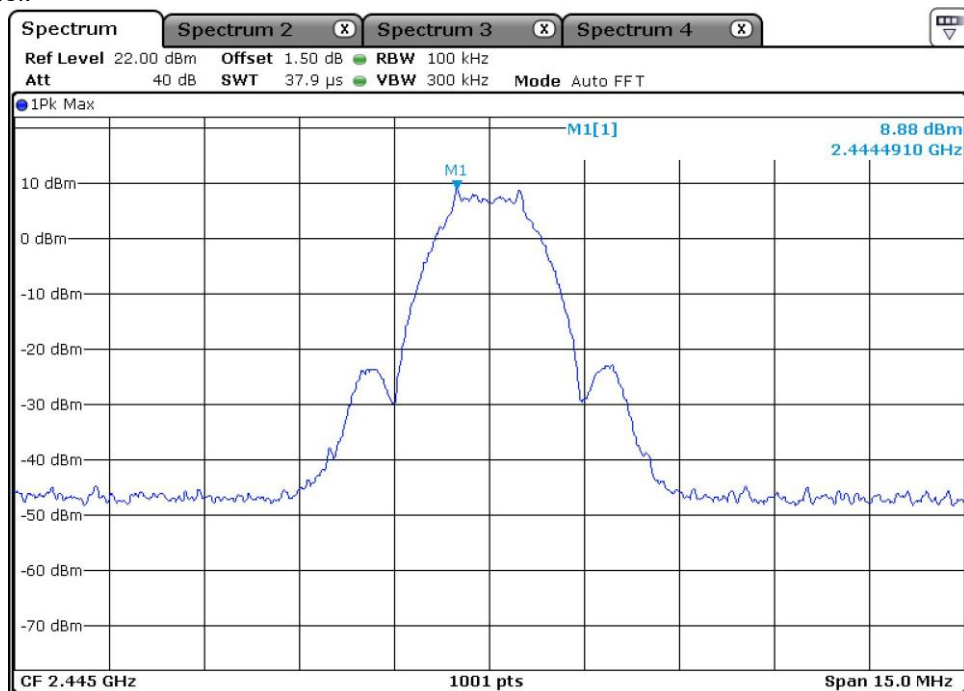
Appendix A.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

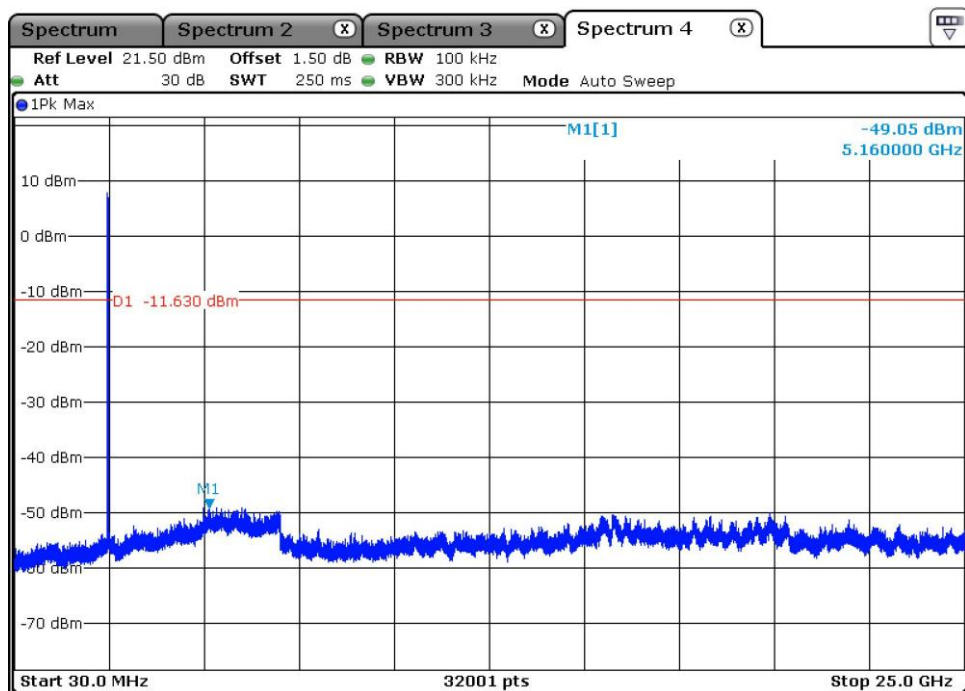
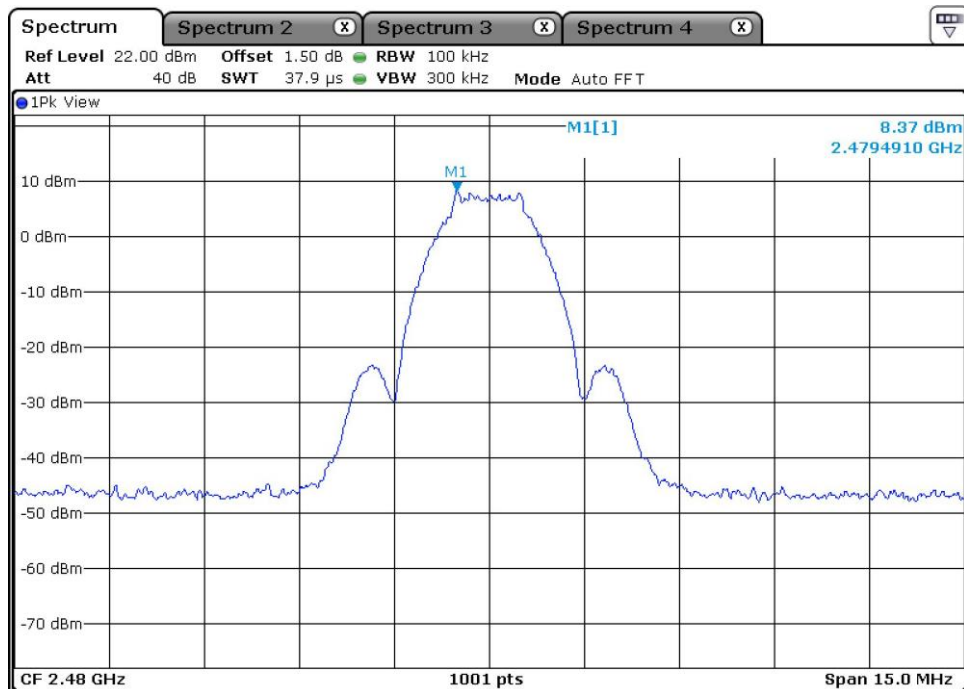
Low Channel:



Middle Channel:

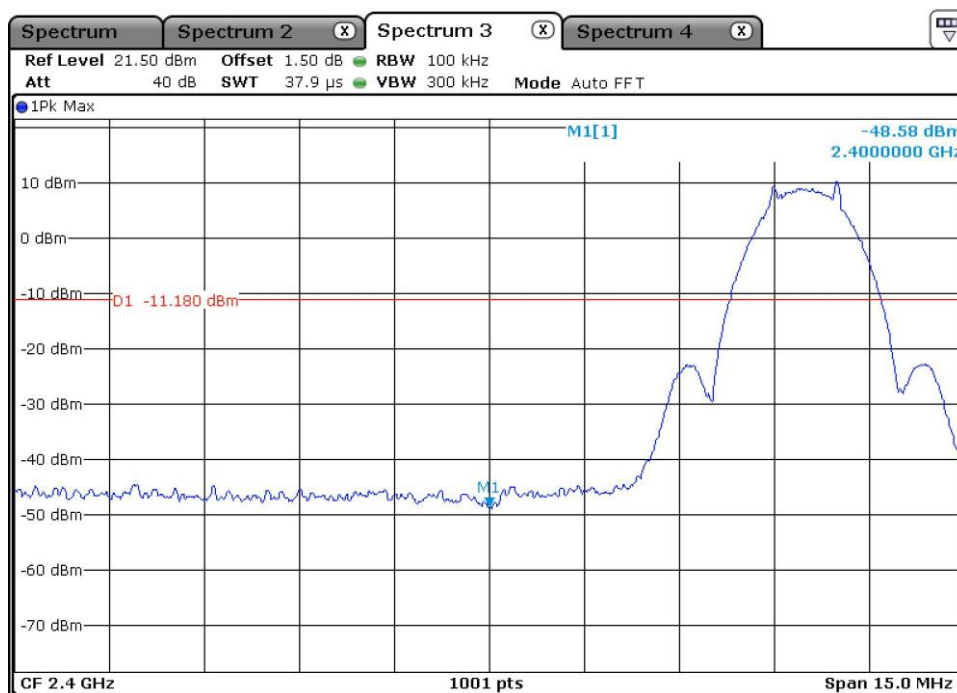


High Channel:

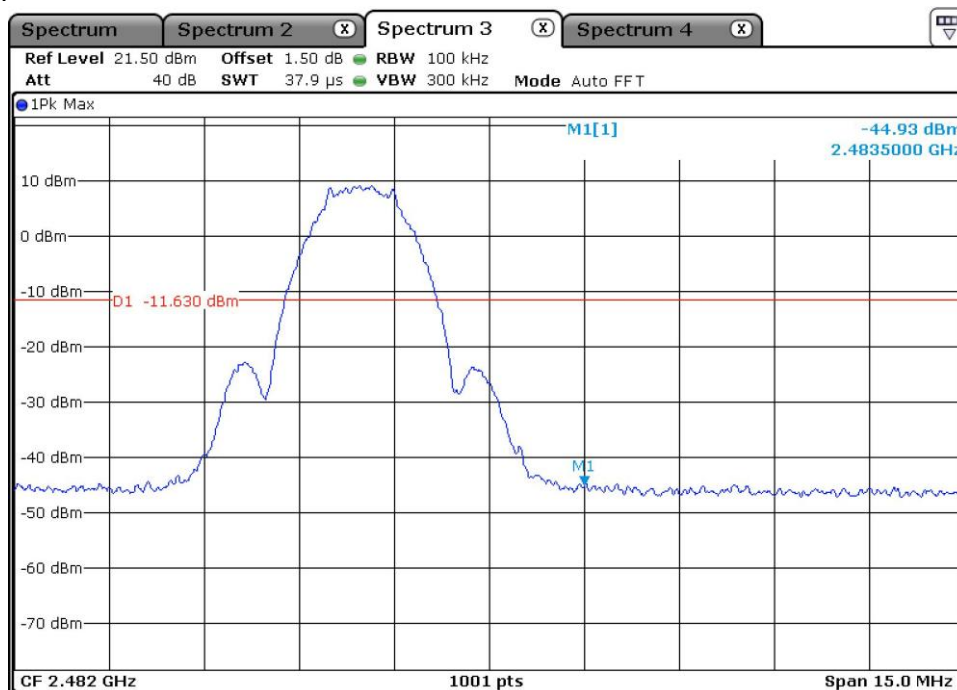


Band Edge

Low Channel:



High Channel:



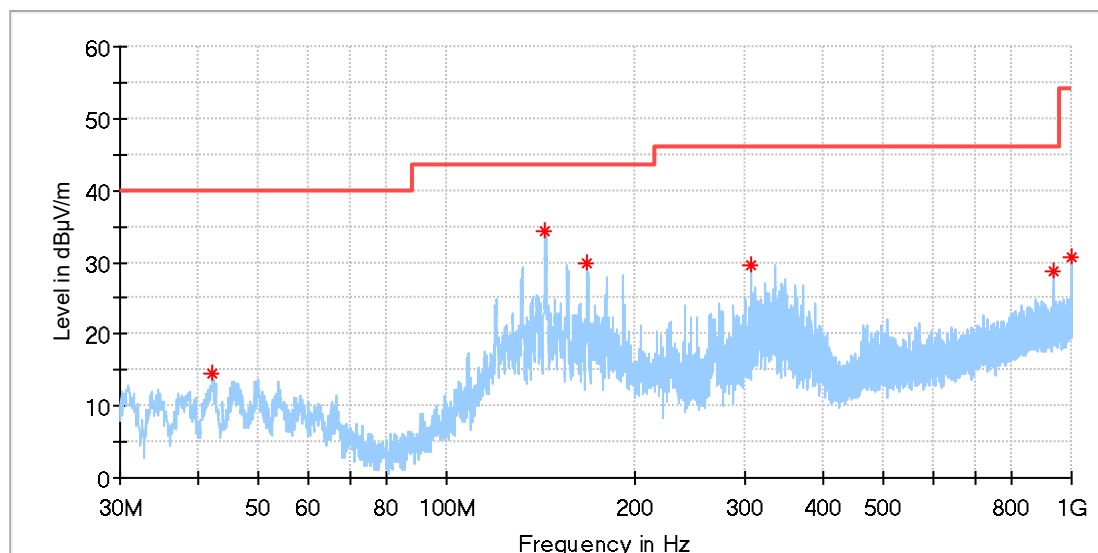
Appendix A.5: Test Results of Radiated Spurious Emissions

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:	TOFSMYGGA PLUG
Model:	E2435-NA
Test Mode:	Mid channel
Order No/Sample No:	168557264/A004009545-005
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



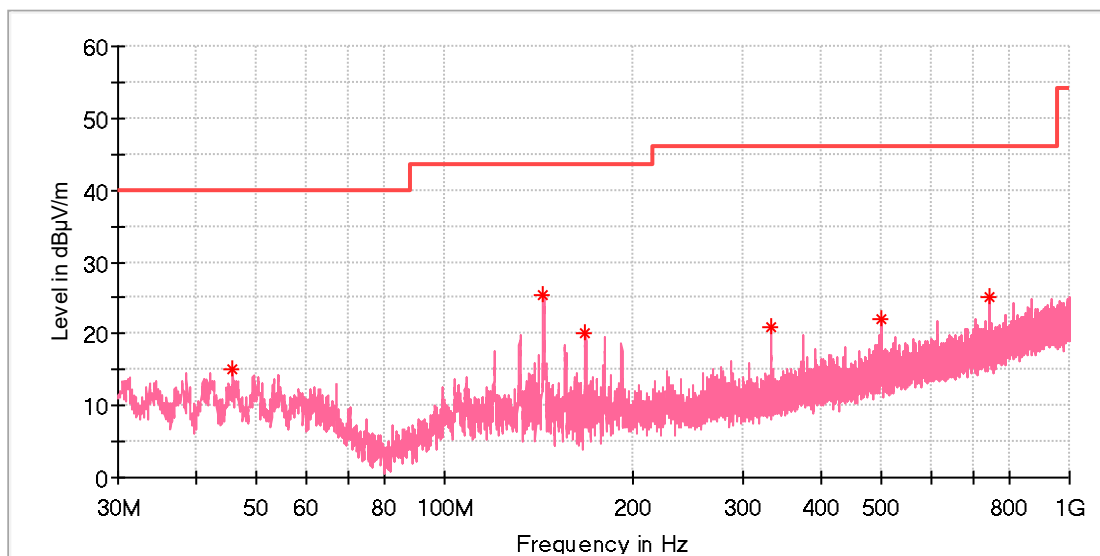
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
42.199615	14.40	40.00	25.60	100.0	H	306.0	-19.6
144.012308	34.42	43.50	9.08	100.0	H	172.0	-22.4
168.075769	29.75	43.50	13.75	100.0	H	164.0	-21.4
307.420000	29.67	46.00	16.33	100.0	H	172.0	-16.1
937.546923	28.70	46.00	17.30	100.0	H	72.0	-4.4
998.843462	30.76	54.00	23.24	100.0	H	251.0	-3.5

Final Result

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

EUT Name: TOFSMYGGA PLUG
Model: E2435-NA
Test Mode: Mid channel
Order No/Sample No: 168557264/A004009545-005
Test Voltage:: AC 120V, 60Hz
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



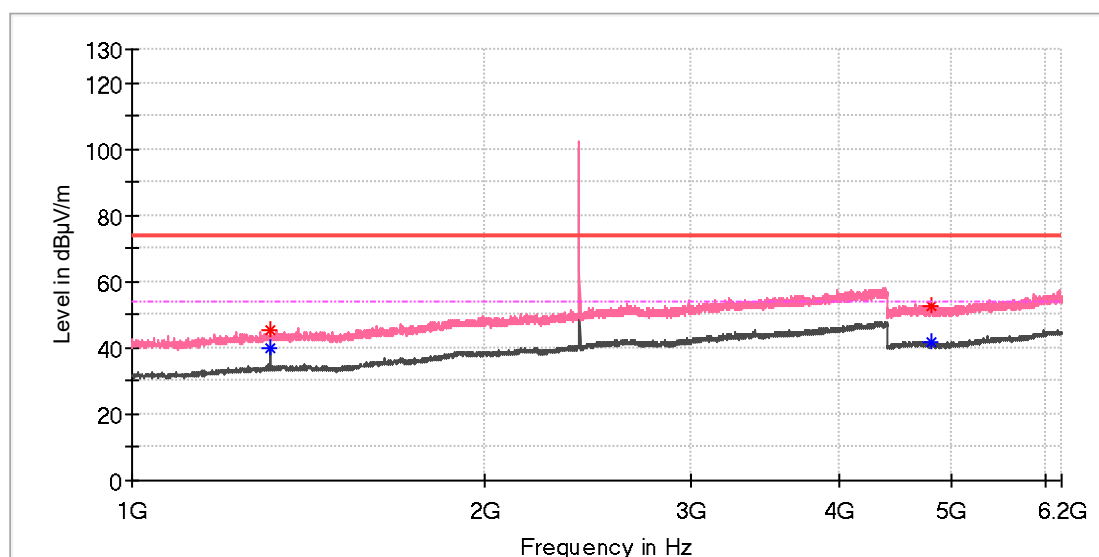
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.818462	14.97	40.00	25.03	100.0	V	230.0	-18.8
143.975000	25.40	43.50	18.10	100.0	V	254.0	-22.4
168.150385	20.10	43.50	23.40	100.0	V	254.0	-21.4
333.199615	20.95	46.00	25.05	100.0	V	347.0	-15.2
498.248846	22.13	46.00	23.87	100.0	V	340.0	-11.9
742.502308	25.10	46.00	20.90	100.0	V	246.0	-7.2

Final_Result

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

EUT Name:	TOFSMYGGA PLUG
Model:	E2435-NA
Test Mode:	Low channel
Order No/Sample No:	168557264/A004009545-005
Test Voltage::	DC 3.3V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



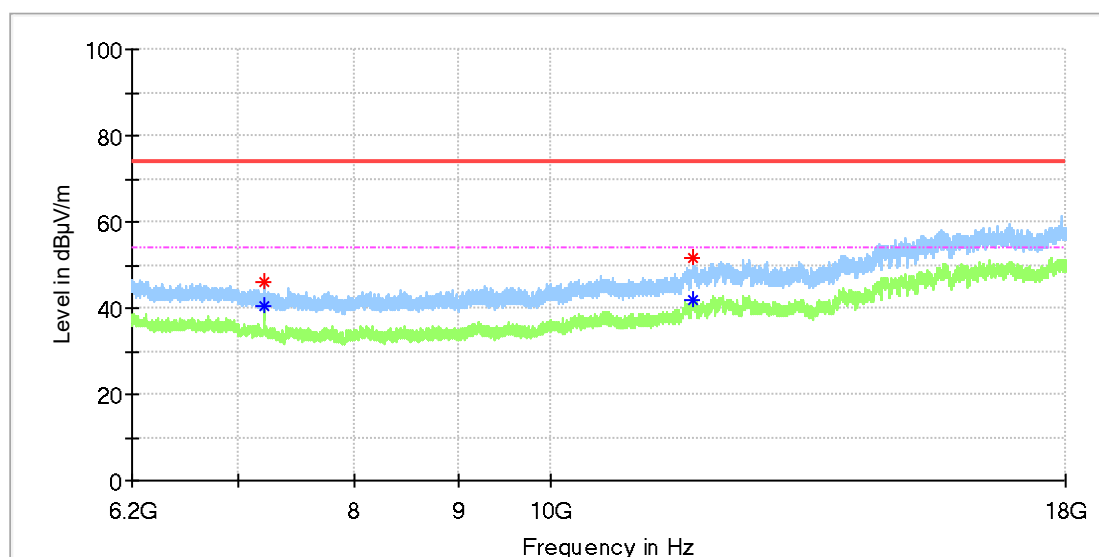
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1312.500000	45.57	---	74.00	28.43	150.0	V	265.0	2.8
1312.500000	---	39.84	54.00	14.16	150.0	V	265.0	1.8
4803.000000	---	41.64	54.00	12.36	150.0	V	299.0	2.3
4807.500000	52.58	---	74.00	21.42	150.0	V	279.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	122.5	122.5	0	100	h	135	0

EUT Name:	TOFSMYGGA PLUG
Model:	E2435-NA
Test Mode:	Low channel
Order No/Sample No:	168557264/A004009545-005
Test Voltage::	DC 3.3V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



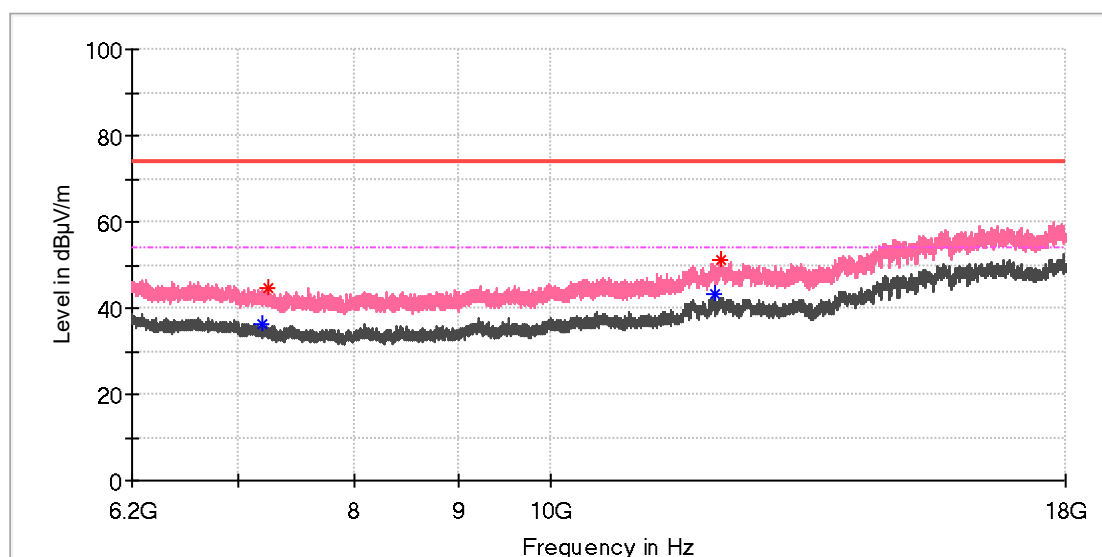
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7213.325000	---	40.46	54.00	13.54	150.0	H	358.0	8.7
7215.783333	46.11	---	74.00	27.89	150.0	H	68.0	8.7
11753.375000	---	41.88	54.00	12.12	150.0	H	125.0	15.5
11770.091667	51.82	---	74.00	22.18	150.0	H	137.0	15.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	122.5	122.5	122.5	0.0	30.0	V	135.0	0.0

EUT Name:	TOFSMYGGA PLUG
Model:	E2435-NA
Test Mode:	Low channel
Order No/Sample No:	168557264/A004009545-005
Test Voltage::	DC 3.3V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



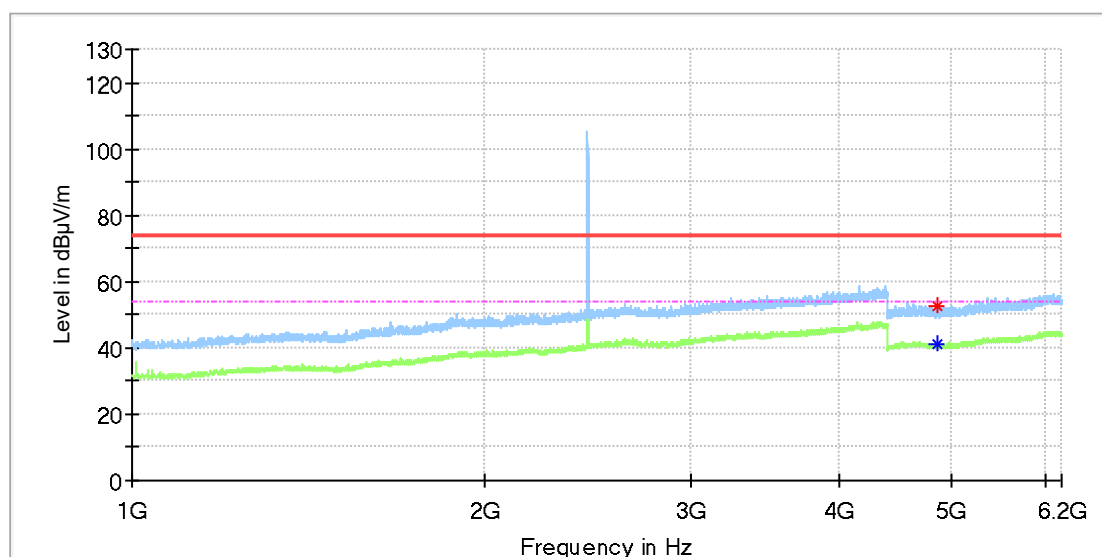
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7196.608333	---	36.11	54.00	17.89	150.0	V	172.0	8.8
7237.416667	44.53	---	74.00	29.47	150.0	V	92.0	8.6
12049.850000	---	43.17	54.00	10.83	150.0	V	70.0	16.4
12149.658333	51.26	---	74.00	22.74	150.0	V	49.0	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)
----	----	----	----	----	----		----	

EUT Name:	TOFSMYGGA PLUG
Model:	E2435-NA
Test Mode:	Mid channel
Order No/Sample No:	168557264/A004009545-005
Test Voltage::	DC 3.3V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



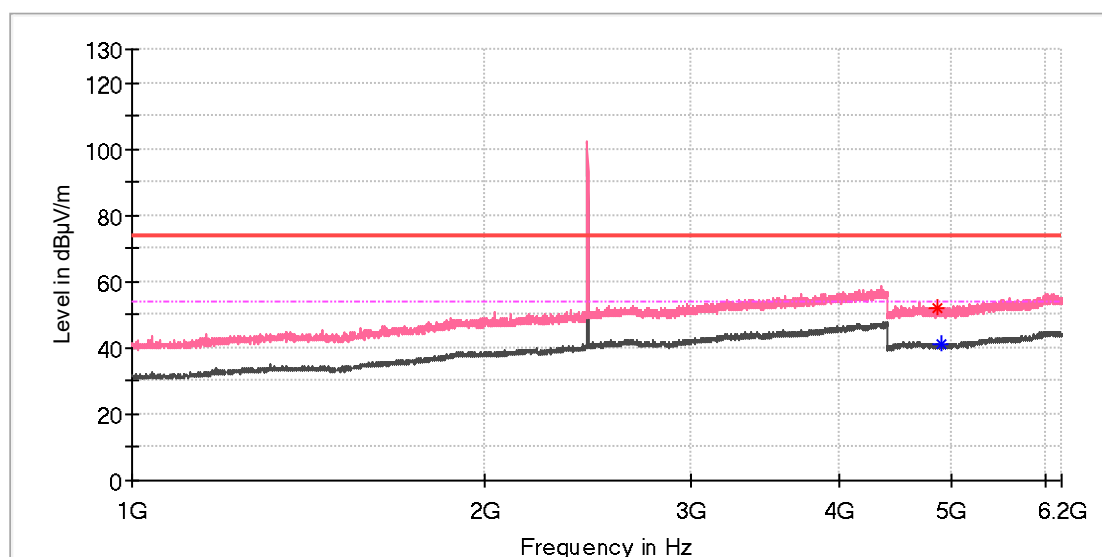
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4853.000000	52.72	---	74.00	21.28	150.0	H	93.0	13.3
4862.000000	---	41.17	54.00	12.83	150.0	H	4.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	118.0	118.0	0.0	100.0	0	0	0

EUT Name:	TOFSMYGGA PLUG
Model:	E2435-NA
Test Mode:	Mid channel
Order No/Sample No:	168557264/A004009545-005
Test Voltage::	DC 3.3V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



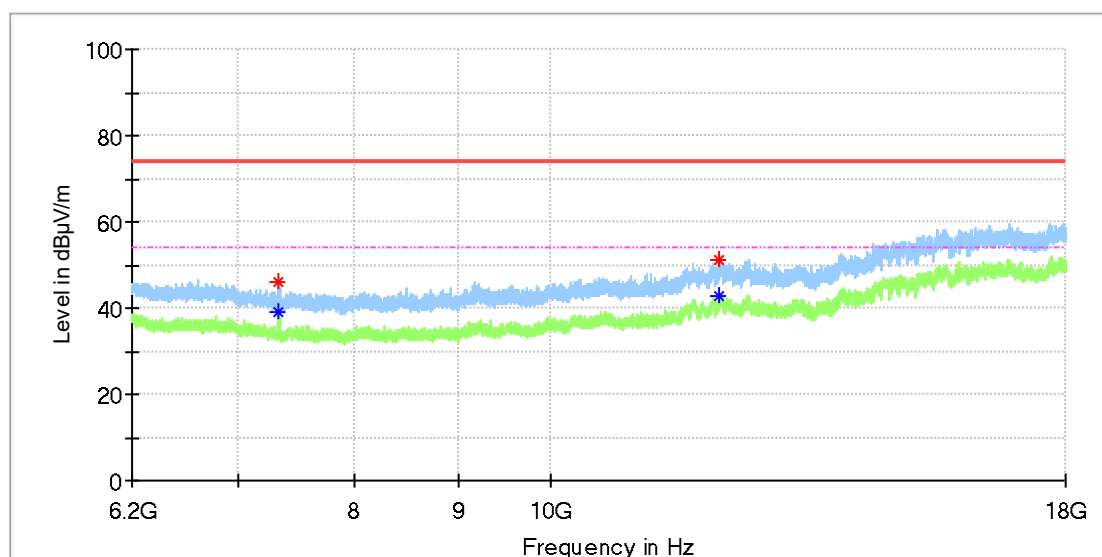
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4850.500000	52.04	---	74.00	21.96	150.0	V	94.0	13.3
4898.500000	---	40.95	54.00	13.05	150.0	V	57.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	118.0	118.0	0.0	100.0	0	0	0

EUT Name:	TOFSMYGGA PLUG
Model:	E2435-NA
Test Mode:	Mid channel
Order No/Sample No:	168557264/A004009545-005
Test Voltage::	DC 3.3V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



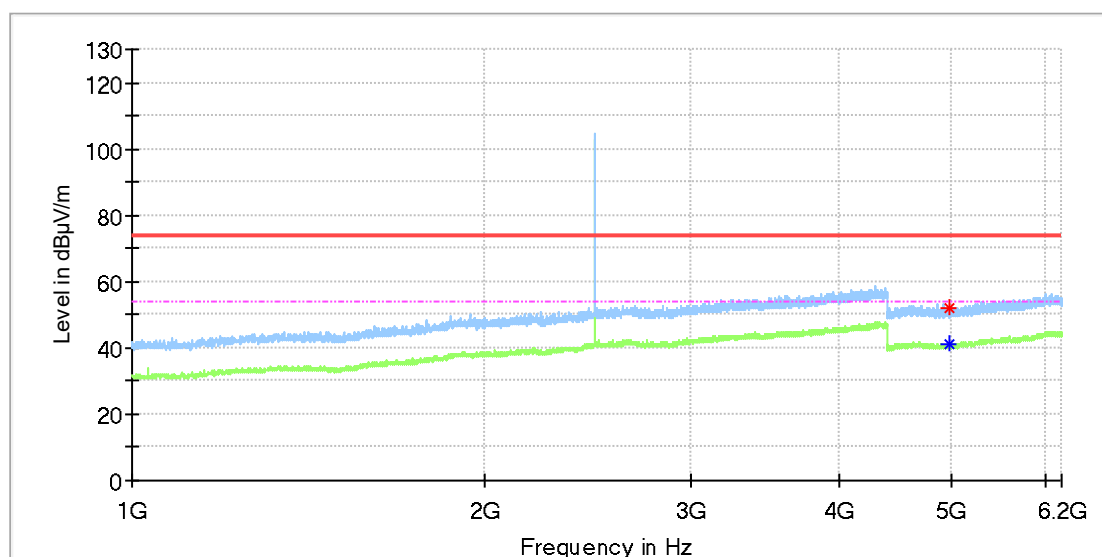
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7333.291667	---	39.15	54.00	14.85	150.0	H	0.0	8.1
7333.291667	45.99	---	74.00	28.01	150.0	H	0.0	8.1
12119.666667	---	42.89	54.00	11.11	150.0	H	231.0	15.9
12131.466667	51.27	---	74.00	22.73	150.0	H	173.0	16.2

Final Result

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

EUT Name:	TOFSMYGGA PLUG
Model:	E2435-NA
Test Mode:	High channel
Order No/Sample No:	168557264/A004009545-005
Test Voltage::	DC 3.3V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

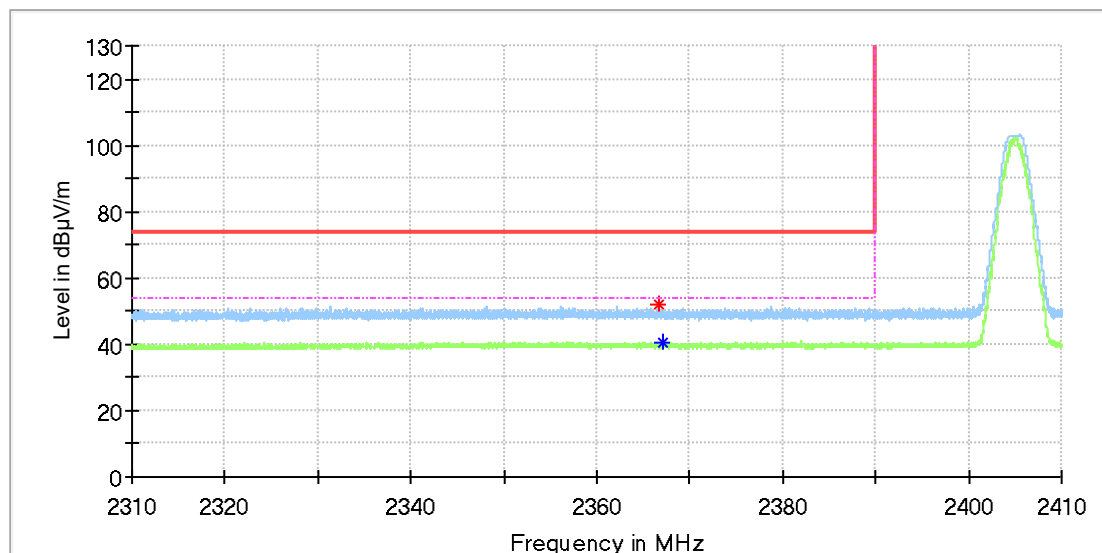
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4972.000000	52.14	---	74.00	21.86	150.0	H	65.0	13.3
4973.000000	---	41.01	54.00	12.99	150.0	H	295.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	122.5	122.5	0.0	100.0	0	0	0

Appendix A.6: Test Results of Radiated Emissions in Restricted Bands

EUT Name:	TOFSMYGGA PLUG
Model:	E2435-NA
Test Mode:	Low channel
Order No/Sample No:	168557264/A004009545-005
Test Voltage::	DC 3.3V From USB
Remark:	Temp 24 Humi:50%
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)
2366.573530	51.99	---	74.00	22.01	150.0	H	273.0	8.5
2367.029412	---	40.67	54.00	13.33	150.0	H	318.0	8.5

Final Result

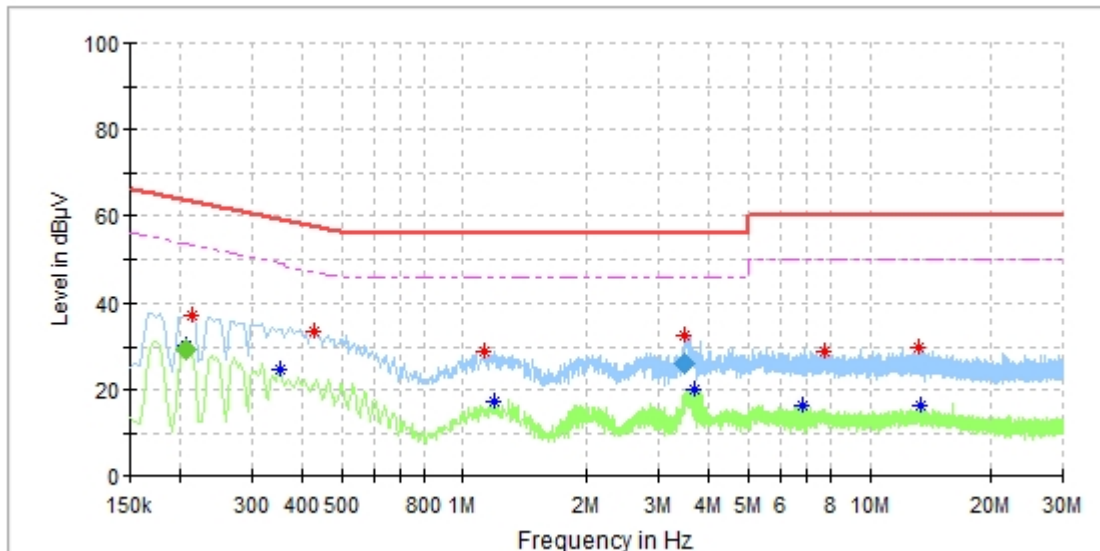
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	93.750000	93.750000	93.750000	93.750000	93.750000		93.750000	93.750000

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	

Appendix A.7: Test Results of Conducted Emission

EUT Name: TOFSMYGGA PLUG
Order Number: 168557264/A004009545-007
Model: E2435-NA
Test Mode: C
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15.207
Test By:/Review By: Dawn Shen/Murphy Chen
Tem./Hum./Pressure: 24.9°C/50.4%/101kPa
Remark: SR 2



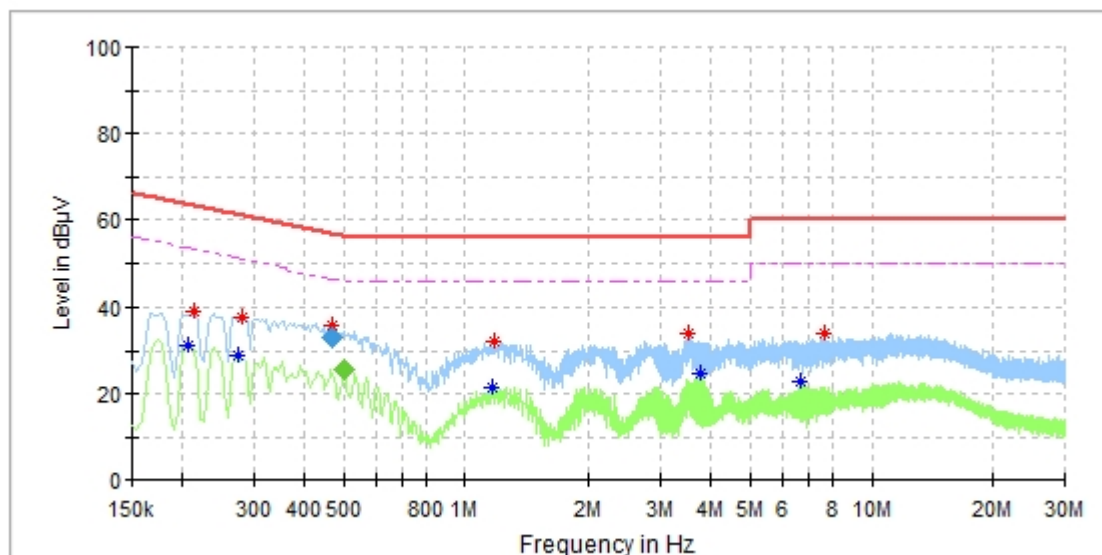
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.205500	---	30.12	53.21	23.08	L1	9.8
0.214000	36.99	---	63.05	26.06	L1	9.8
0.354000	---	24.75	48.87	24.12	L1	9.8
0.426000	33.51	---	57.33	23.82	L1	9.9
1.130000	28.81	---	56.00	27.19	L1	10.0
1.198000	---	17.14	46.00	28.86	L1	10.0
3.497500	32.66	---	56.00	23.34	L1	10.1
3.694000	---	19.94	46.00	26.06	L1	10.1
6.794000	---	16.06	50.00	33.94	L1	10.2
7.710000	28.80	---	60.00	31.20	L1	10.2
13.282000	29.60	---	60.00	30.40	L1	10.2
13.414000	---	16.09	50.00	33.91	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.205500	---	29.51	53.39	23.87	1000.0	9.000	L1	9.8
3.497500	25.83	---	56.00	30.17	1000.0	9.000	L1	10.1

EUT Name: TOFSMYGGA PLUG
 Order Number: 168557264/A004009545-007
 Model: E2435-NA
 Test Mode: C
 Test Voltage: AC 120V/60Hz
 Test Standard: FCC Part 15.207
 Test By./Review By: Dawn Shen/Murphy Chen
 Tem./Hum./Pressure: 24.9°C/50.4%/101kPa
 Remark: SR 2



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.206000	---	30.99	53.37	22.37	N	9.7
0.214000	38.84	---	63.05	24.21	N	9.7
0.274000	---	28.83	51.00	22.17	N	9.7
0.282000	37.56	---	60.76	23.19	N	9.7
0.466500	35.93	---	56.66	20.72	N	9.7
0.501500	---	25.55	46.03	20.48	N	9.7
1.166000	---	21.57	46.00	24.43	N	9.8
1.186000	31.87	---	56.00	24.13	N	9.8
3.534000	33.93	---	56.00	22.07	N	9.8
3.770000	---	24.79	46.00	21.21	N	9.8
6.690000	---	22.71	50.00	27.29	N	9.8
7.642000	33.74	---	60.00	26.26	N	9.9

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.466500	33.04	---	56.58	23.53	1000.0	9.000	N	9.7
0.501500	---	25.41	46.00	20.59	1000.0	9.000	N	9.7