

Appendix A: Test Results

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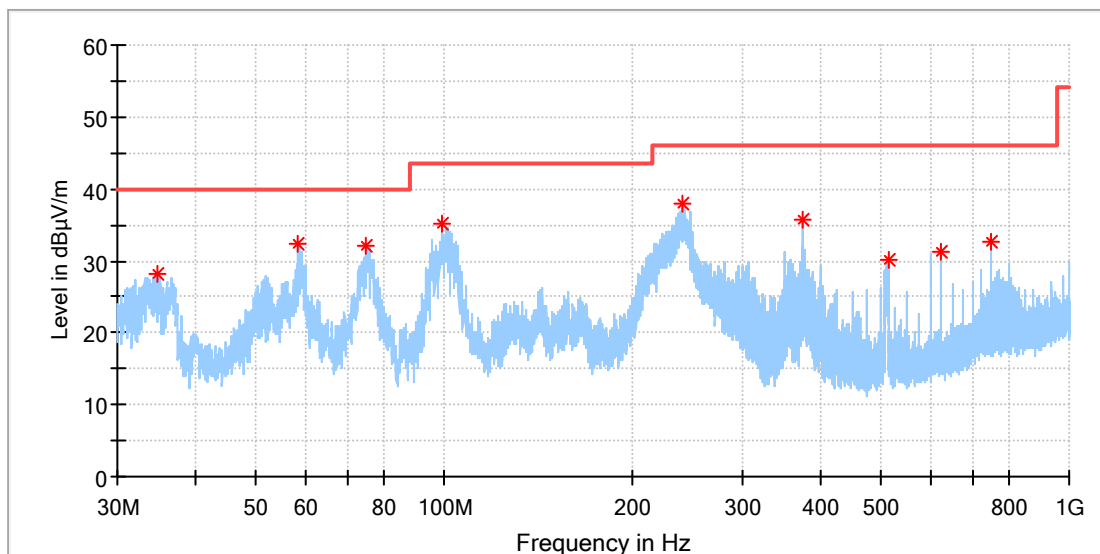
Appendix A.1: Test Results of Field Strength of Fundamental & Harmonics

Note: The testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz to 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	Wireless Power Receiver Controller
Model:	HzWP LC180-A30
Test Mode:	Mid channel
Order No/Sample No:	168546836/A004020767-003
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

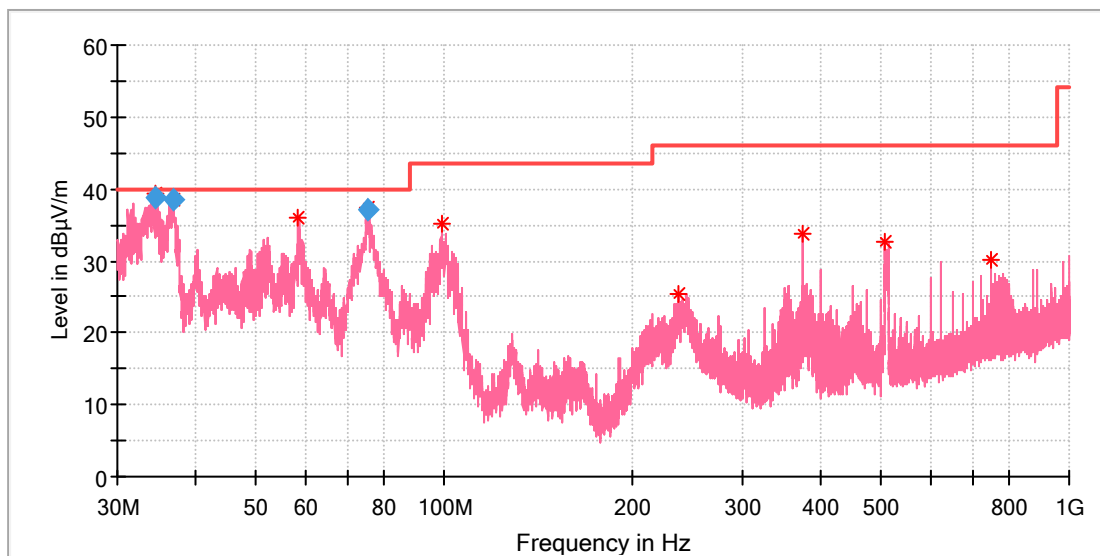
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.850000	28.27	40.00	11.73	100.0	H	338.0	-22.0
58.503077	32.28	40.00	7.72	100.0	H	128.0	-18.9
75.179615	32.12	40.00	7.88	100.0	H	136.0	-23.5
98.981923	35.04	43.50	8.46	100.0	H	204.0	-19.3
240.863077	37.85	46.00	8.15	100.0	H	146.0	-17.7
375.021539	35.69	46.00	10.31	100.0	H	219.0	-14.3
513.321154	30.25	46.00	15.75	100.0	H	154.0	-11.6
625.020385	31.16	46.00	14.84	100.0	H	258.0	-9.2
750.038462	32.64	46.00	13.36	100.0	H	305.0	-7.1

Final_Result

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

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.591231	39.27	40.00	0.73	100.0	V	99.0	-22.2
36.817808	38.58	40.00	1.42	100.0	V	114.0	-21.3
58.503077	36.08	40.00	3.92	100.0	V	233.0	-18.9
75.713154	37.34	40.00	2.66	100.0	V	72.0	-23.5
99.280385	35.06	43.50	8.44	100.0	V	122.0	-19.2
237.841154	25.44	46.00	20.56	100.0	V	91.0	-17.8
375.021539	33.68	46.00	12.32	100.0	V	168.0	-14.3
507.762308	32.70	46.00	13.30	100.0	V	107.0	-11.8
750.038462	30.27	46.00	15.73	100.0	V	140.0	-7.1

Final_Result

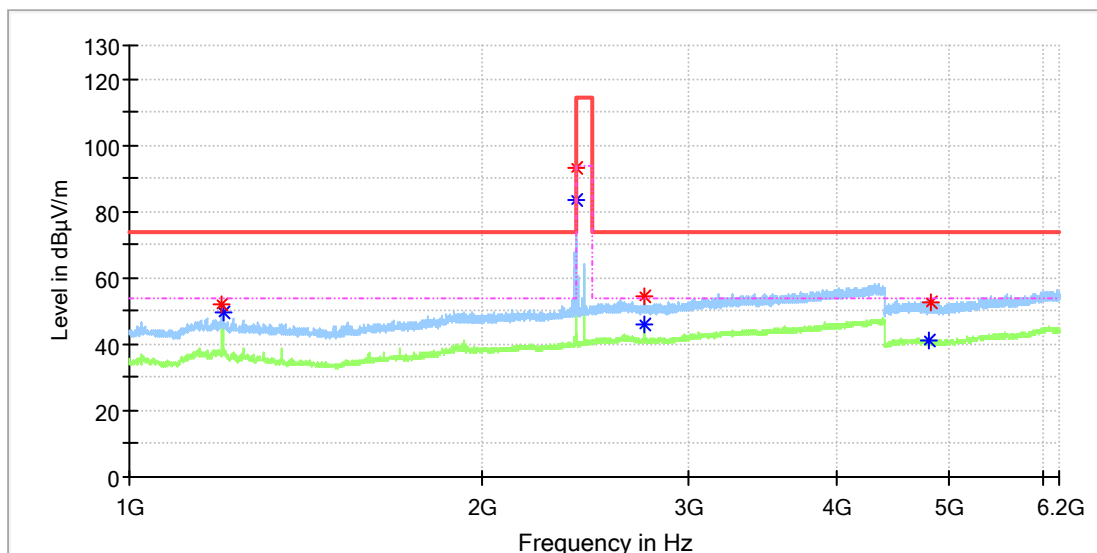
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.591231	38.75	40.00	1.25	100.0	V	99.0	-22.1
36.817808	38.50	40.00	1.50	100.0	V	114.0	-21.3
75.713154	37.14	40.00	2.86	100.0	V	72.0	-23.5

1GHz - 18GHz

Note: The highest waveform in the figure is 2.4G SRD Fundamental.

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Critical Freqs

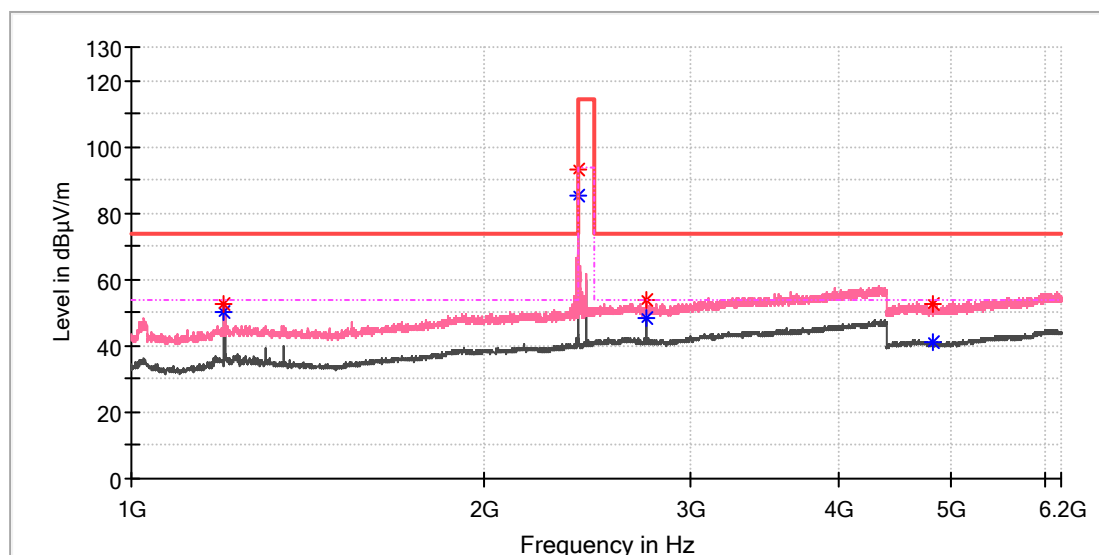
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.500000	51.95	---	74.00	22.05	150.0	H	76.0	1.8
1201.000000	---	49.37	54.00	4.63	150.0	H	76.0	1.8
2401.000000	---	83.74	94.00	10.26	150.0	H	67.0	8.5
2401.500000	92.88	---	114.00	21.12	150.0	H	67.0	8.5
2747.500000	54.46	---	74.00	19.54	150.0	H	85.0	9.9
2747.500000	---	46.14	54.00	7.86	150.0	H	85.0	9.9
4810.000000	---	41.12	54.00	12.88	150.0	H	347.0	13.3
4820.500000	52.58	---	74.00	21.42	150.0	H	251.0	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)
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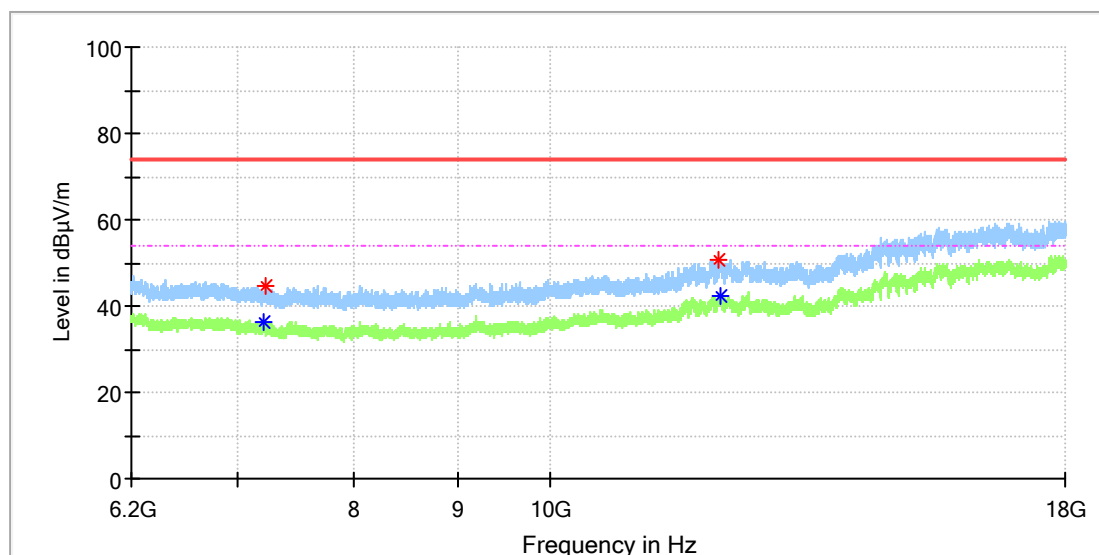
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.500000	52.81	---	74.00	21.19	150.0	V	65.0	1.8
1200.500000	---	50.33	54.00	3.67	150.0	V	65.0	1.8
2401.000000	---	85.32	94.00	8.68	150.0	V	65.0	8.5
2402.000000	93.17	---	114.00	20.83	150.0	V	65.0	8.5
2747.500000	54.00	---	74.00	20.00	150.0	V	56.0	9.9
2747.500000	---	48.43	54.00	5.57	150.0	V	56.0	9.9
4812.000000	---	41.02	54.00	12.98	150.0	V	207.0	13.3
4815.000000	52.79	---	74.00	21.21	150.0	V	212.0	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)
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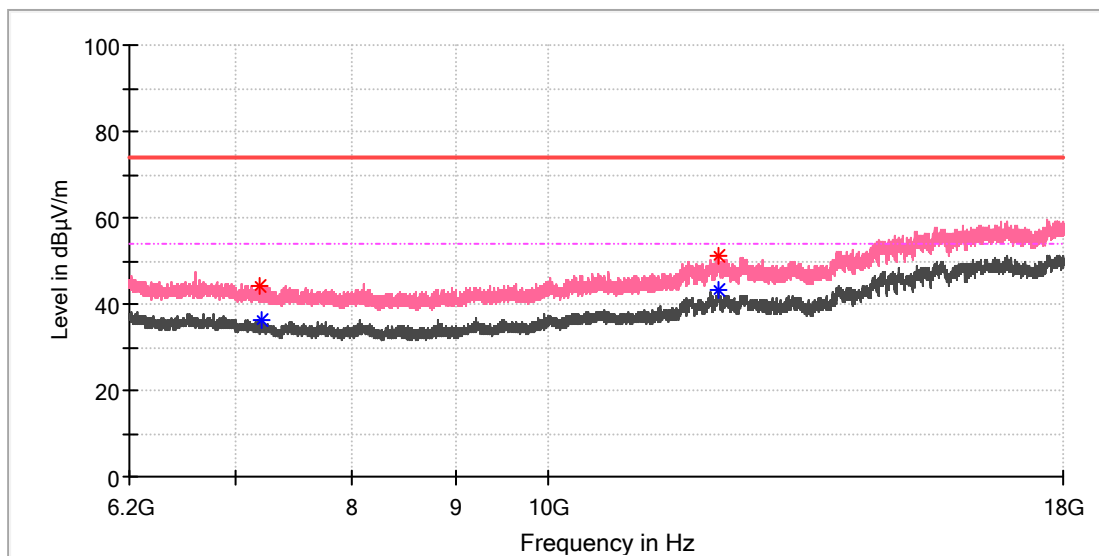
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7217.258333	---	36.25	54.00	17.75	150.0	H	179.0	8.7
7220.700000	44.88	---	74.00	29.12	150.0	H	270.0	8.7
12111.800000	50.67	---	74.00	23.33	150.0	H	228.0	15.7
12149.658333	---	42.34	54.00	11.66	150.0	H	139.0	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)
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Critical Freqs

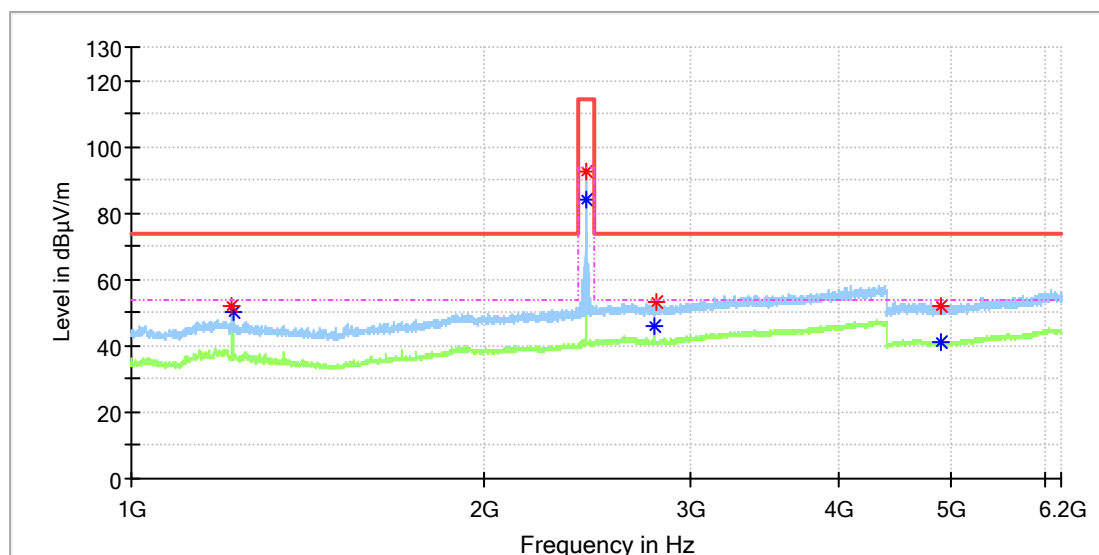
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7199.558333	44.37	---	74.00	29.63	150.0	V	212.0	8.8
7205.458333	---	36.41	54.00	17.59	150.0	V	27.0	8.8
12132.941667	---	43.17	54.00	10.83	150.0	V	76.0	16.3
12146.708333	50.98	---	74.00	23.02	150.0	V	157.0	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)
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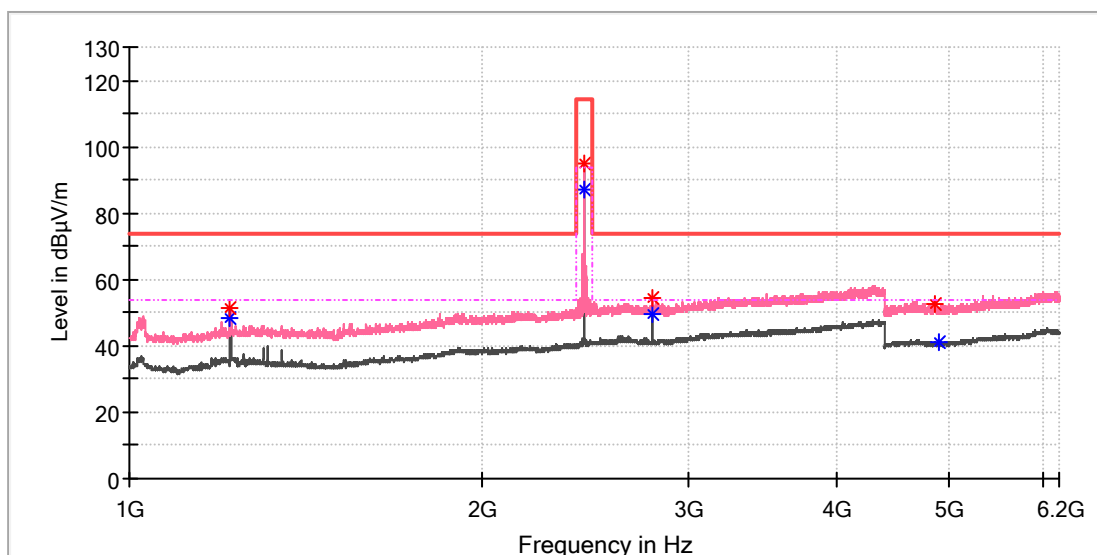
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1219.500000	52.27	---	74.00	21.73	150.0	H	85.0	2.1
1220.000000	---	49.93	54.00	4.07	150.0	H	85.0	2.1
2439.000000	---	83.81	94.00	10.19	150.0	H	115.0	8.9
2439.500000	92.46	---	114.00	21.54	150.0	H	115.0	8.9
2791.000000	---	45.92	54.00	8.08	150.0	H	30.0	9.7
2802.500000	53.19	---	74.00	20.81	150.0	H	49.0	9.6
4895.500000	---	40.96	54.00	13.04	150.0	H	201.0	13.3
4903.000000	52.22	---	74.00	21.78	150.0	H	243.0	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)
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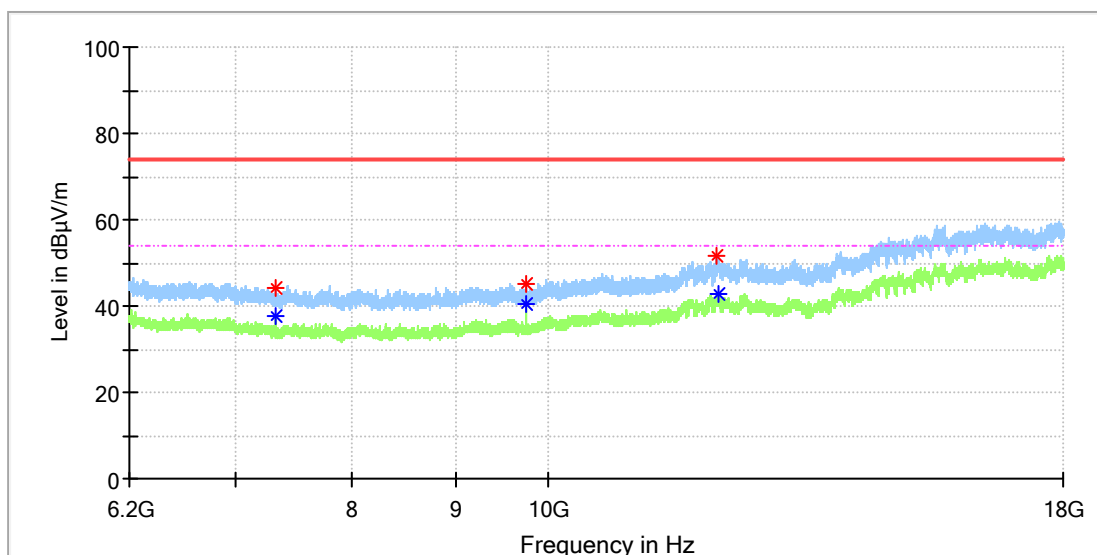
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1219.500000	---	48.15	54.00	5.85	150.0	V	60.0	2.1
1219.500000	51.32	---	74.00	22.68	150.0	V	60.0	2.1
2439.000000	---	87.14	94.00	6.86	150.0	V	68.0	8.9
2440.000000	94.97	---	114.00	19.03	150.0	V	60.0	8.9
2791.000000	54.39	---	74.00	19.61	150.0	V	73.0	9.7
2791.000000	---	49.43	54.00	4.57	150.0	V	73.0	9.7
4860.500000	52.34	---	74.00	21.66	150.0	V	171.0	13.3
4905.000000	---	40.99	54.00	13.01	150.0	V	318.0	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)
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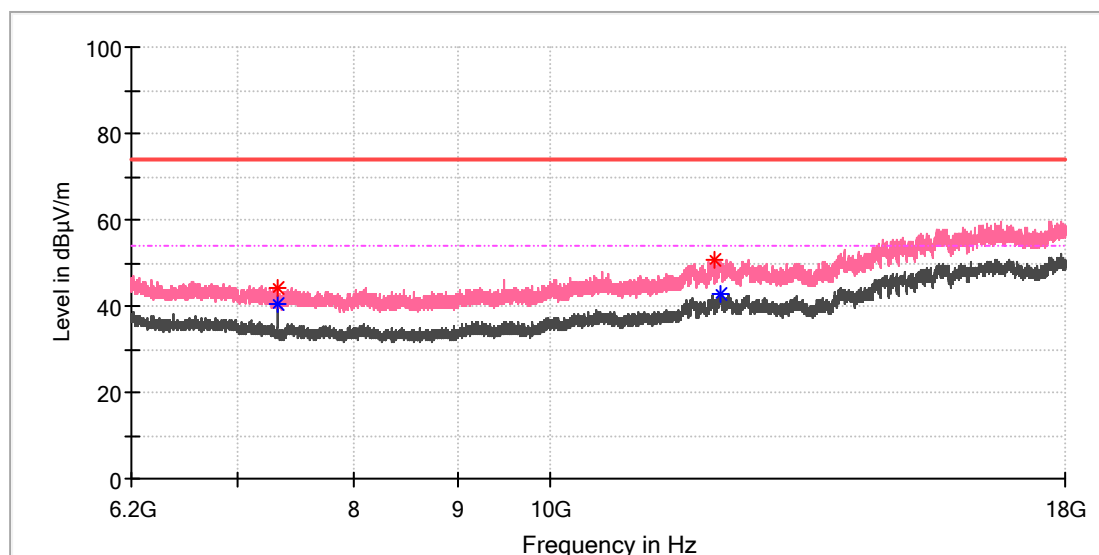
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.525000	44.05	---	74.00	29.95	150.0	H	226.0	8.2
7319.525000	---	37.89	54.00	16.11	150.0	H	226.0	8.2
9759.175000	---	40.42	54.00	13.58	150.0	H	272.0	10.4
9759.666667	45.29	---	74.00	28.71	150.0	H	148.0	10.4
12121.633333	51.82	---	74.00	22.18	150.0	H	114.0	16.0
12145.725000	---	42.88	54.00	11.12	150.0	H	114.0	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)
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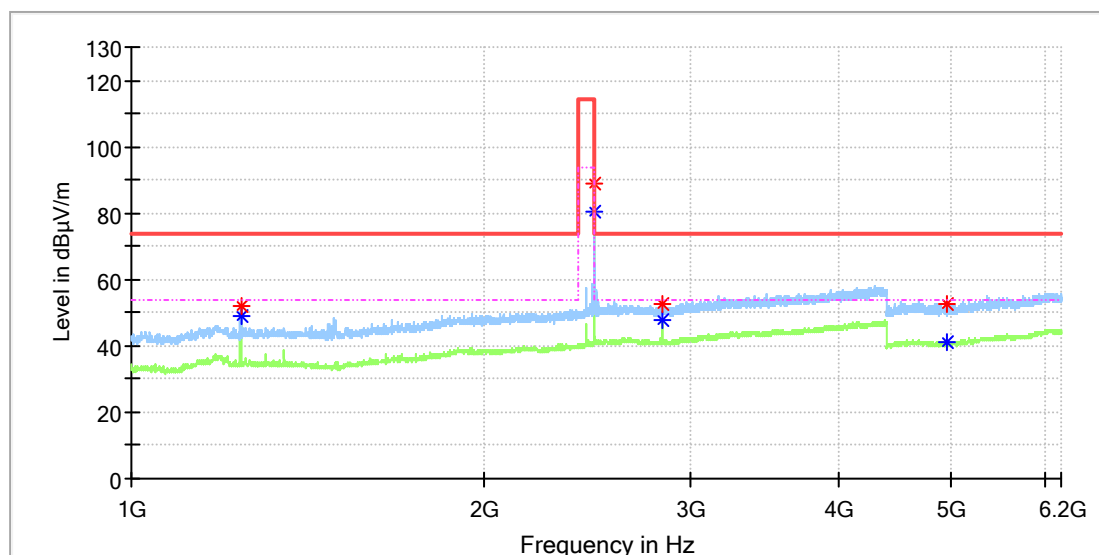
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.033333	44.16	---	74.00	29.84	150.0	V	138.0	8.2
7319.033333	---	40.27	54.00	13.73	150.0	V	138.0	8.2
12052.308333	50.85	---	74.00	23.15	150.0	V	207.0	16.1
12153.100000	---	42.60	54.00	11.40	150.0	V	357.0	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)
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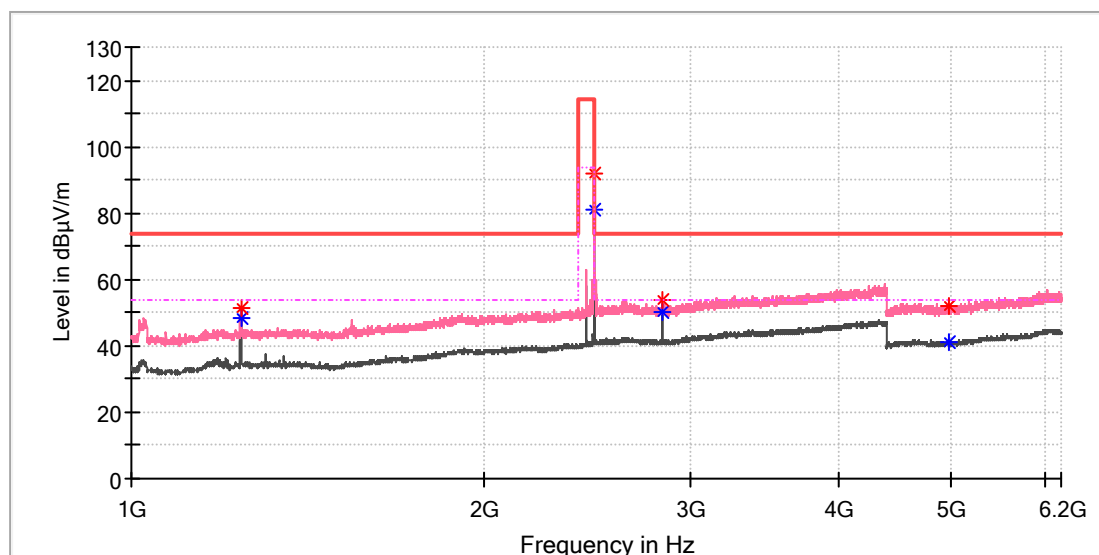
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1239.500000	52.16	---	74.00	21.84	150.0	H	283.0	2.5
1239.500000	---	49.19	54.00	4.81	150.0	H	283.0	2.5
2479.500000	---	80.43	94.00	13.57	150.0	H	307.0	9.0
2480.000000	88.66	---	114.00	25.34	150.0	H	307.0	9.0
2836.500000	52.85	---	74.00	21.15	150.0	H	307.0	9.7
2836.500000	---	47.48	54.00	6.52	150.0	H	307.0	9.7
4949.000000	52.31	---	74.00	21.69	150.0	H	152.0	13.3
4950.500000	---	40.98	54.00	13.02	150.0	H	317.0	13.3

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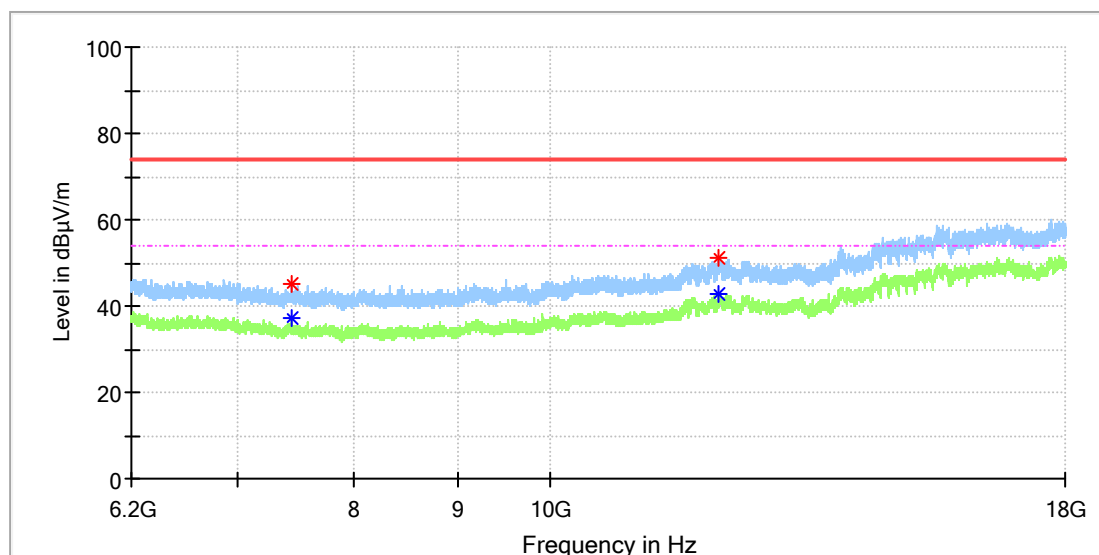
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1240.000000	---	48.45	54.00	5.55	150.0	V	251.0	2.5
1240.000000	51.40	---	74.00	22.60	150.0	V	251.0	2.5
2479.000000	---	80.93	94.00	13.07	150.0	V	234.0	9.0
2480.000000	91.89	---	114.00	22.11	150.0	V	234.0	9.0
2836.500000	54.07	---	74.00	19.93	150.0	V	189.0	9.7
2836.500000	---	50.04	54.00	3.96	150.0	V	189.0	9.7
4971.000000	52.12	---	74.00	21.88	150.0	V	119.0	13.3
4978.500000	---	41.04	54.00	12.96	150.0	V	286.0	13.3

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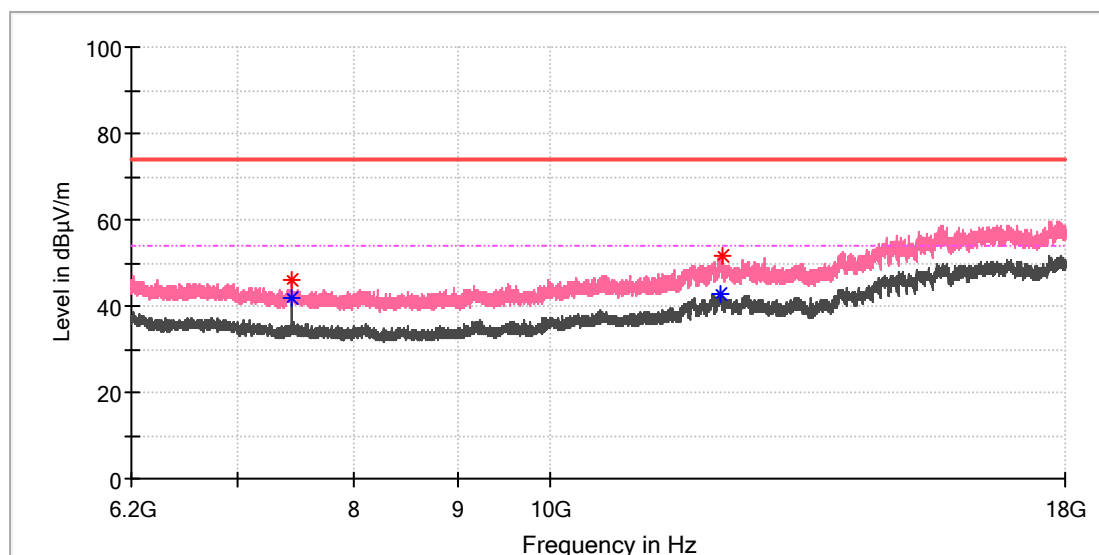
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	37.40	54.00	16.60	150.0	H	216.0	8.4
7439.491667	44.93	---	74.00	29.07	150.0	H	216.0	8.4
12123.108333	51.10	---	74.00	22.90	150.0	H	283.0	16.0
12129.500000	---	42.68	54.00	11.32	150.0	H	249.0	16.2

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Reviewed By:	Terry Yin



Critical Freqs

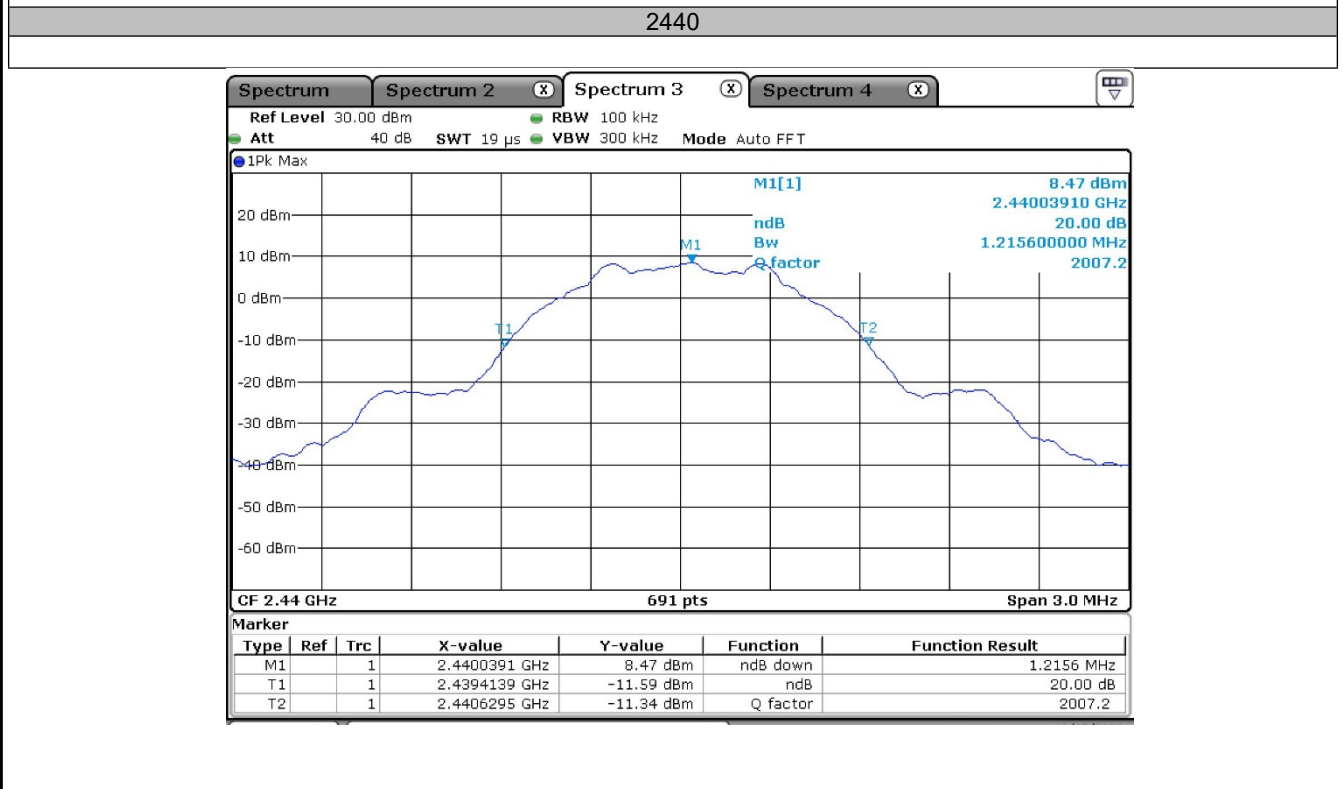
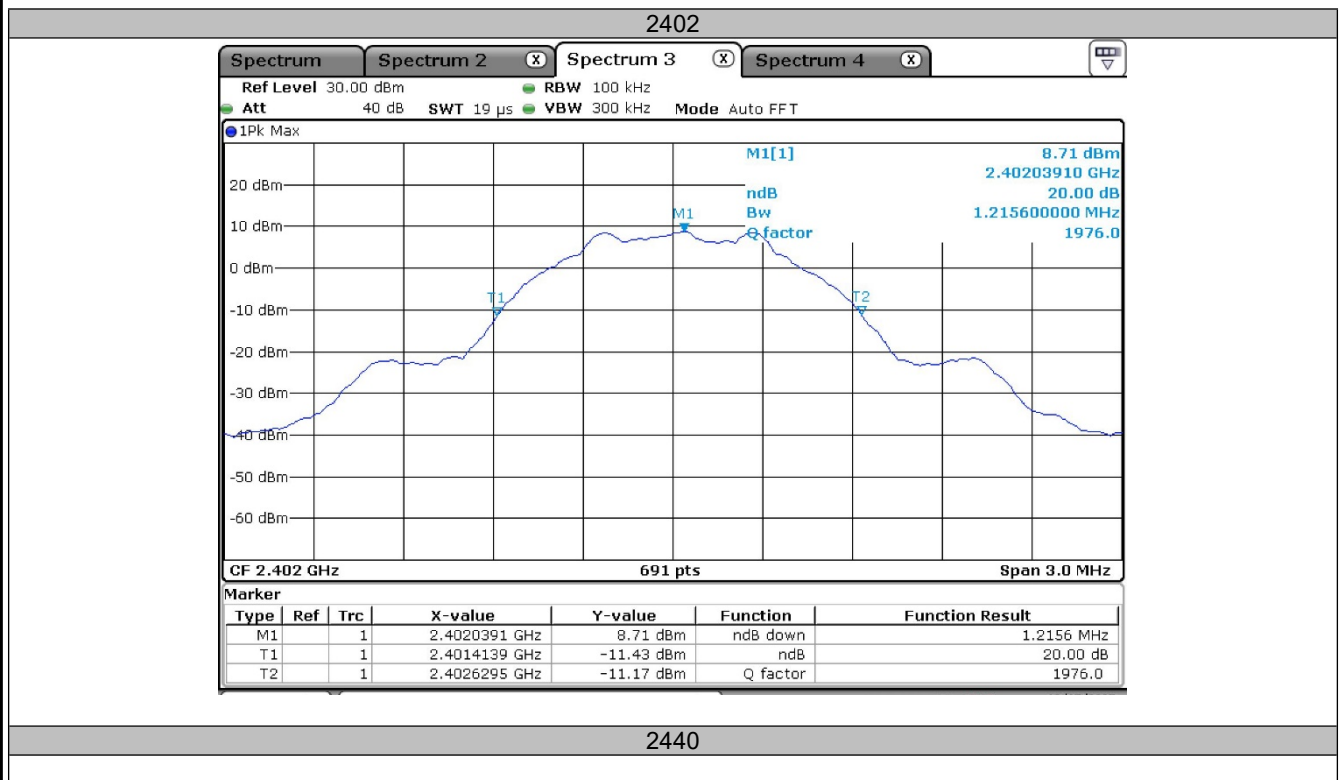
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	45.99	---	74.00	28.01	150.0	V	126.0	8.4
7439.491667	---	41.79	54.00	12.21	150.0	V	126.0	8.4
12142.775000	---	42.71	54.00	11.29	150.0	V	126.0	16.5
12164.408333	51.80	---	74.00	22.20	150.0	V	43.0	16.0

Final Result

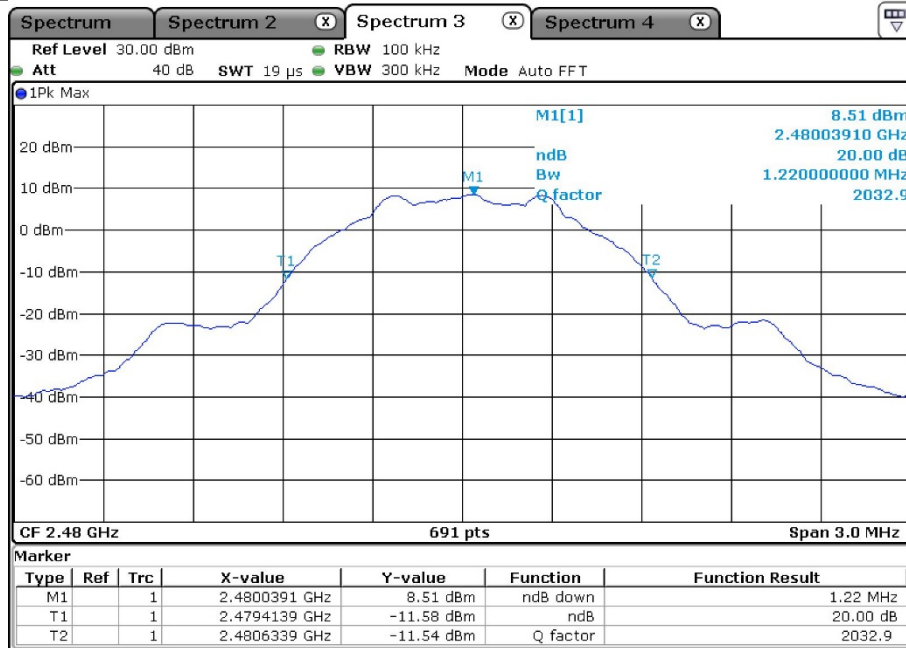
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Appendix A.2: Test Results of 20dB Bandwidth

Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
Ant1	2402	1.2156	---	PASS
	2440	1.2156	---	PASS
	2480	1.22	---	PASS



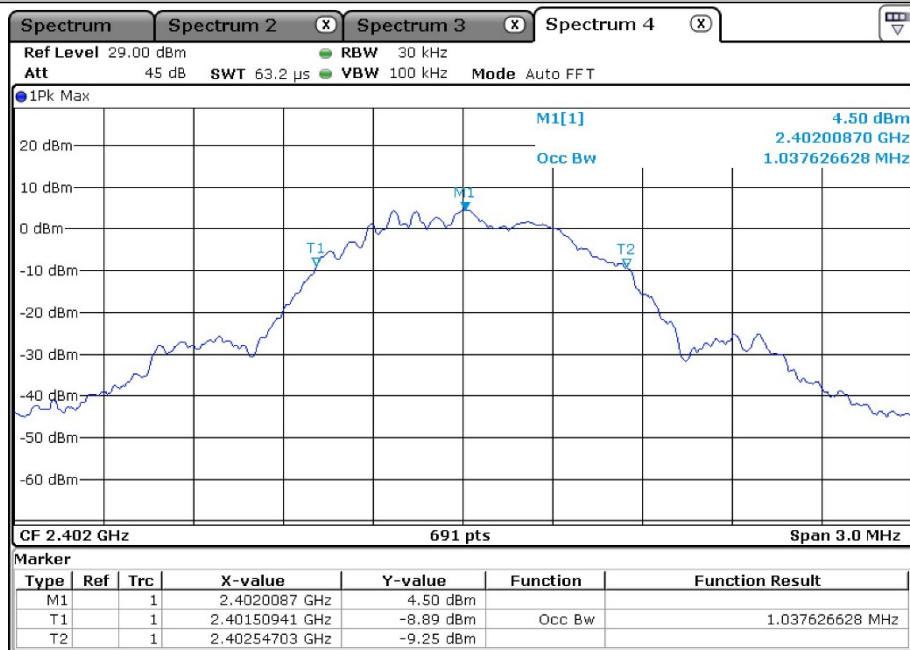
2480



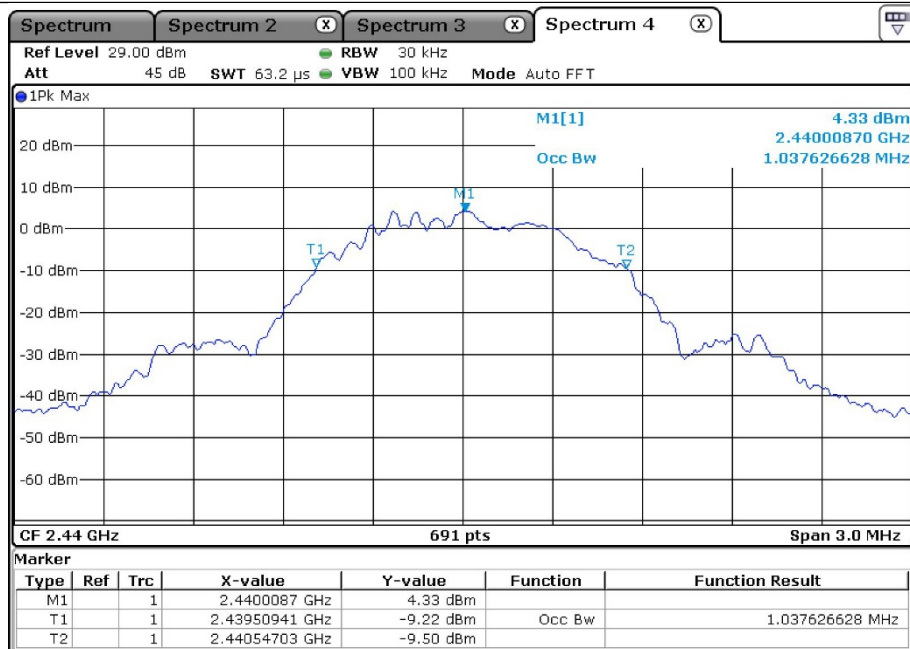
Appendix A.3: Test Results of 99% Bandwidth

Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
Ant1	2402	1.0376	---	PASS
	2440	1.0376	---	PASS
	2480	1.0376	---	PASS

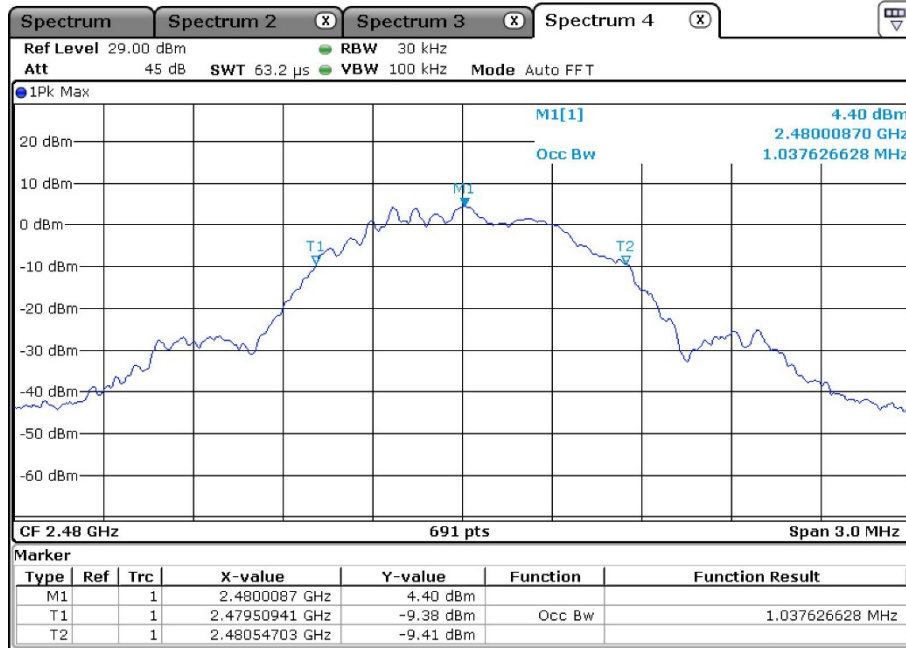
2402



2440



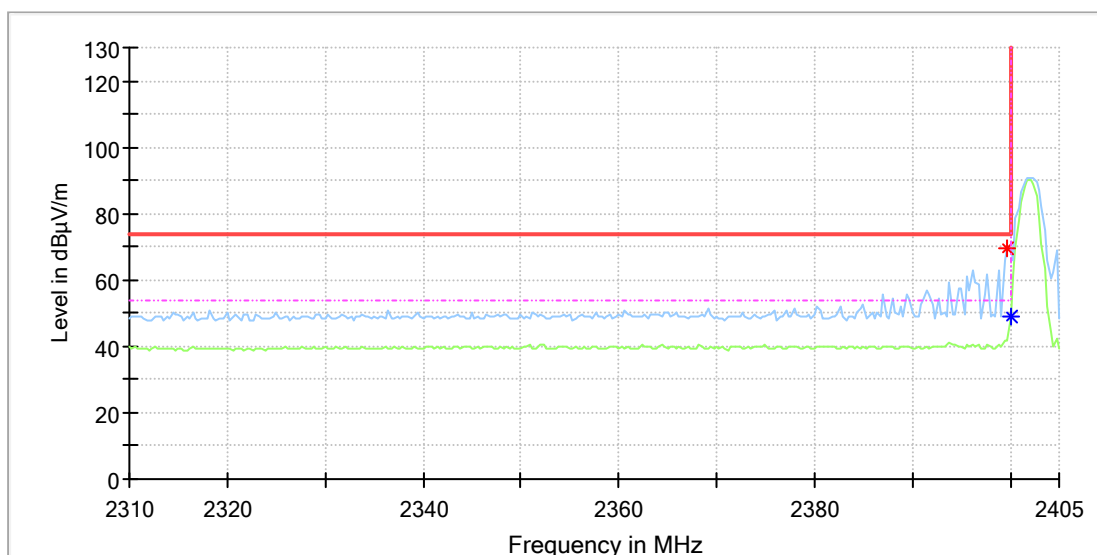
2480



Appendix A.4: Test Results of Band Edge

EUT Information

EUT Name:	Wireless Power Receiver Controller
Model:	HzWP LC180-A30
Test Mode:	Low channel
Order No/Sample No:	168546836/A004020767-003
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

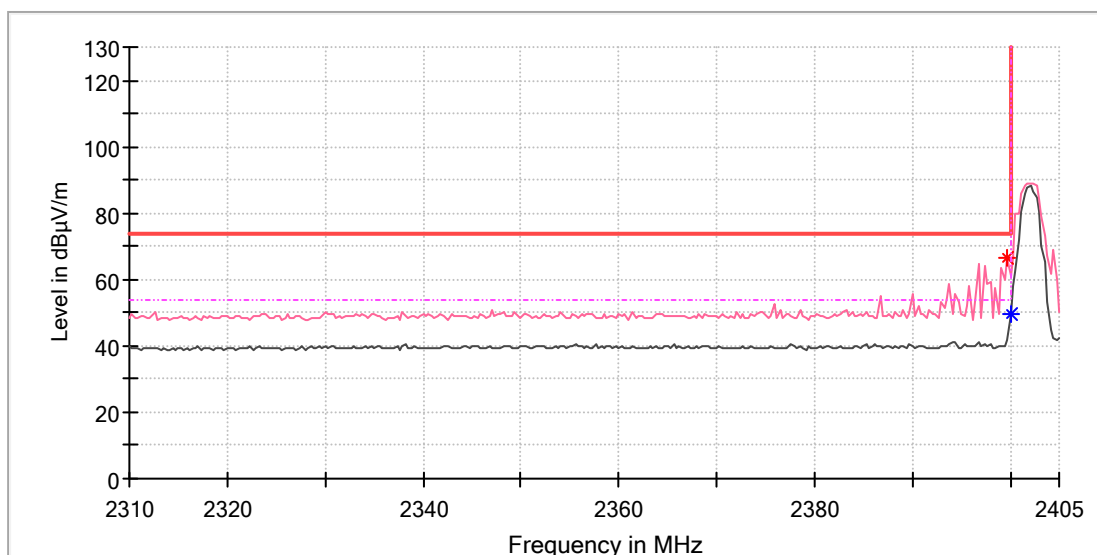
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2399.705882	69.32	---	74.00	4.68	150.0	H	148.0	8.5
2400.000000	---	49.01	54.00	4.99	150.0	H	148.0	8.5

Final Result

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

EUT Information

EUT Name:	Wireless Power Receiver Controller
Model:	HzWP LC180-A30
Test Mode:	Low channel
Order No/Sample No:	168546836/A004020767-003
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

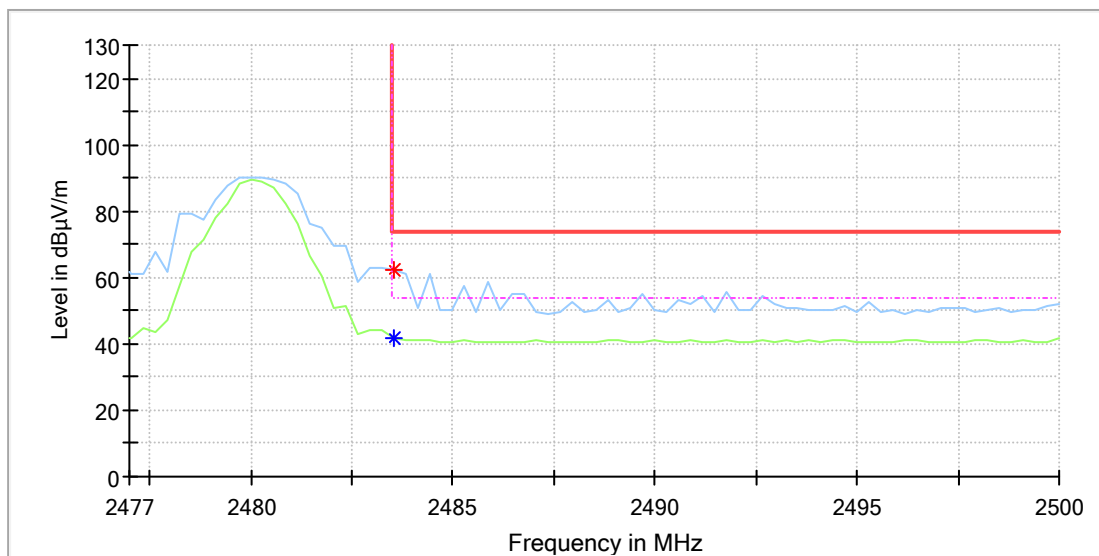
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2399.705882	66.29	---	74.00	7.71	150.0	V	3.0	8.5
2400.000000	---	49.36	54.00	4.64	150.0	V	232.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0

EUT Information

EUT Name:	Wireless Power Receiver Controller
Model:	HzWP LC180-A30
Test Mode:	High channel
Order No/Sample No:	168546836/A004020767-003
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

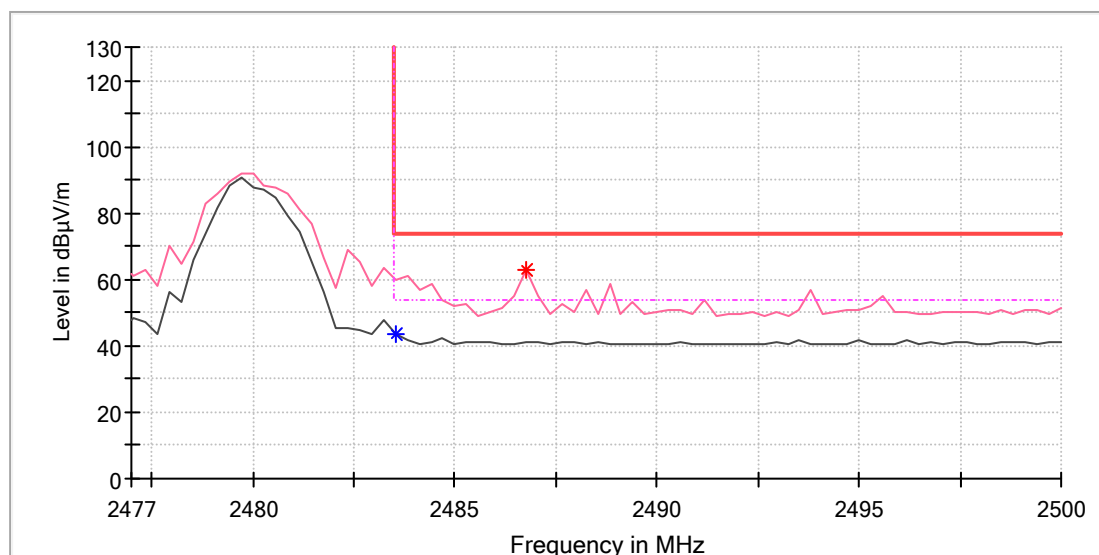
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	41.70	54.00	12.30	150.0	H	286.0	9.0
2483.529412	62.01	---	74.00	11.99	150.0	H	286.0	9.0

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	122.0	118.0	120.0	2.0	300	V	135	0.0

EUT Information

EUT Name:	Wireless Power Receiver Controller
Model:	HzWP LC180-A30
Test Mode:	High channel
Order No/Sample No:	168546836/A004020767-003
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
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)
2483.529412	---	43.25	54.00	10.75	150.0	V	235.0	9.0
2486.764706	62.74	---	74.00	11.26	150.0	V	235.0	9.0

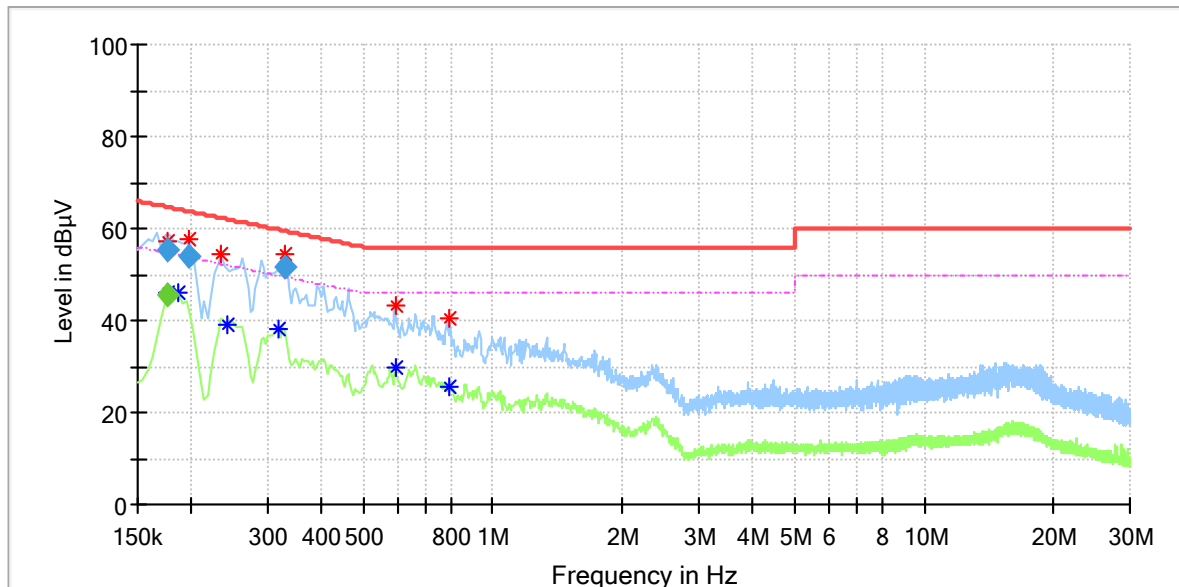
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	118.0	116.0	118.0	0.0	100.0	0	0	0

Appendix A.5: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	Wireless Power Receiver Controller
Order Number:	168546836 P01898362
Model:	HzWP LC180-A30
Test Mode:	2.4G SRD Link
Test Voltage:	AC120V 60Hz
Test Standard:	FCC Part15 207
Test By:/Review By:	Steve Lan/Murphy Chen
Tem./Hum./Pressure:	24.9°C/52.4%/101kPa
Remark:	SR2



Critical_Freqs

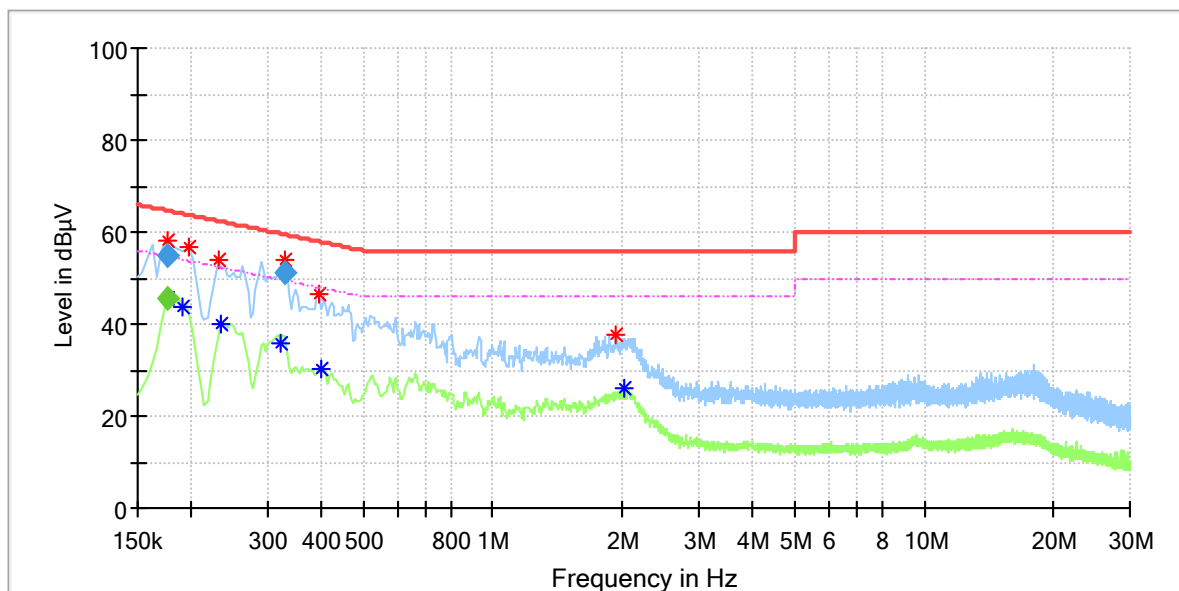
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.177	---	45.95	54.21	8.26	L1	10.2
0.177	57.07	---	64.39	7.32	L1	10.2
0.186	---	45.95	54.21	8.26	L1	10.2
0.197	57.72	---	63.69	5.97	L1	10.2
0.234	54.21	---	62.31	8.10	L1	10.2
0.242	---	39.18	52.03	12.85	L1	10.2
0.318	---	38.10	49.76	11.66	L1	10.2
0.329	54.49	---	59.45	4.96	L1	10.2
0.594	---	29.55	46.00	16.45	L1	10.2
0.594	43.21	---	56.00	12.79	L1	10.2
0.790	---	25.55	46.00	20.45	L1	10.3
0.794	40.56	---	56.00	15.44	L1	10.3

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.177	---	45.56	54.65	9.09	1000.0	9.000	L1	10.2
0.177	55.19	---	64.65	9.46	1000.0	9.000	L1	10.2
0.197	53.73	---	63.76	10.03	1000.0	9.000	L1	10.2
0.329	51.48	---	59.49	8.01	1000.0	9.000	L1	10.2

EUT Information

EUT Name: Wireless Power Receiver Controller
Order Number: 168546836 P01898362
Model: HzWP LC180-A30
Test Mode: 2.4G SRD Link
Test Voltage: AC120V 60Hz
Test Standard: FCC Part15 207
Test By:/Review By: Steve Lan/Murphy Chen
Tem./Hum./Pressure: 24.9°C/52.4%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.177	58.22	---	64.58	6.36	N	10.2
0.177	---	45.70	54.21	8.51	N	10.2
0.190	---	43.67	54.04	10.37	N	10.2
0.198	56.87	---	63.69	6.82	N	10.2
0.230	54.12	---	62.45	8.33	N	10.2
0.234	---	40.02	52.31	12.28	N	10.2
0.322	---	35.75	49.66	13.91	N	10.2
0.329	54.16	---	59.45	5.29	N	10.2
0.394	46.50	---	57.98	11.48	N	10.2
0.398	---	30.28	47.90	17.61	N	10.2
1.934	37.84	---	56.00	18.16	N	10.3
2.006	---	25.89	46.00	20.11	N	10.3

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.177	---	45.53	54.65	9.12	1000.0	9.000	N	10.2
0.177	55.10	---	64.65	9.55	1000.0	9.000	N	10.2
0.329	51.12	---	59.49	8.37	1000.0	9.000	N	10.2