

Appendix B: Test Results of 2.4GHz Wi-Fi

APPENDIX B: TEST RESULTS OF 2.4GHZ WI-FI	1
APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
<i>Test Result</i>	2
<i>Test Graphs</i>	3
APPENDIX B.2: TEST RESULTS OF 6DB BANDWIDTH	7
<i>Test Result</i>	7
<i>Test Graphs</i>	8
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH	12
<i>Test Result</i>	12
<i>Test Graphs</i>	13
APPENDIX B.4: TEST RESULTS OF BAND EDGE MEASUREMENTS	17
<i>Test Result</i>	17
<i>Test Graphs</i>	18
APPENDIX B.5: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS	21
<i>Test Result</i>	21
<i>Test Graphs</i>	22
APPENDIX B.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	34
30MHz - 1GHz	34
1GHz - 18GHz	36
APPENDIX B.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	60
<i>Wi-Fi 802.11 b mode</i>	60
<i>Wi-Fi 802.11 g mode</i>	64
<i>Wi-Fi 802.11 n(HT20) mode</i>	68
<i>Wi-Fi 802.11 n(HT40) mode</i>	72
APPENDIX B.8: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	76

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

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.67	≤8.00	PASS
		2437	-4.72	≤8.00	PASS
		2462	-4.03	≤8.00	PASS
11G	Ant1	2412	-11.57	≤8.00	PASS
		2437	-10.86	≤8.00	PASS
		2462	-11.30	≤8.00	PASS
11N20SISO	Ant1	2412	-12.66	≤8.00	PASS
		2437	-11.03	≤8.00	PASS
		2462	-14.62	≤8.00	PASS
11N40SISO	Ant1	2422	-16.68	≤8.00	PASS
		2437	-15.37	≤8.00	PASS
		2452	-17.12	≤8.00	PASS

Test Graphs

11B_Ant1_2412



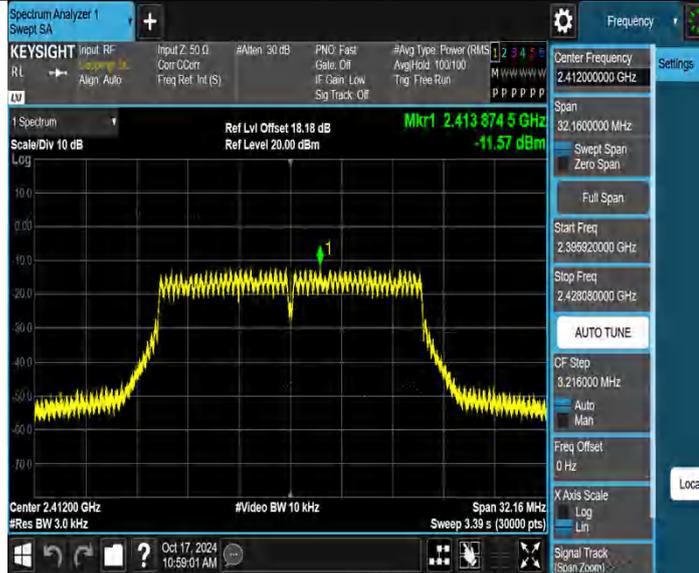
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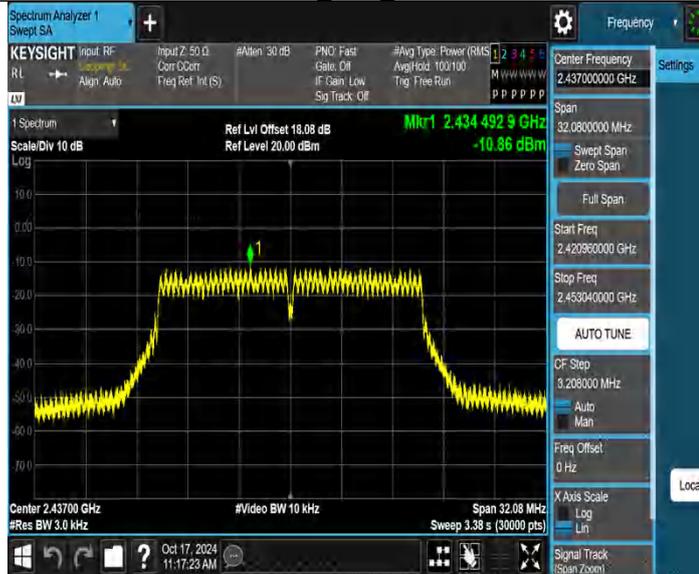
11B_Ant1_2462



11G_Ant1_2412



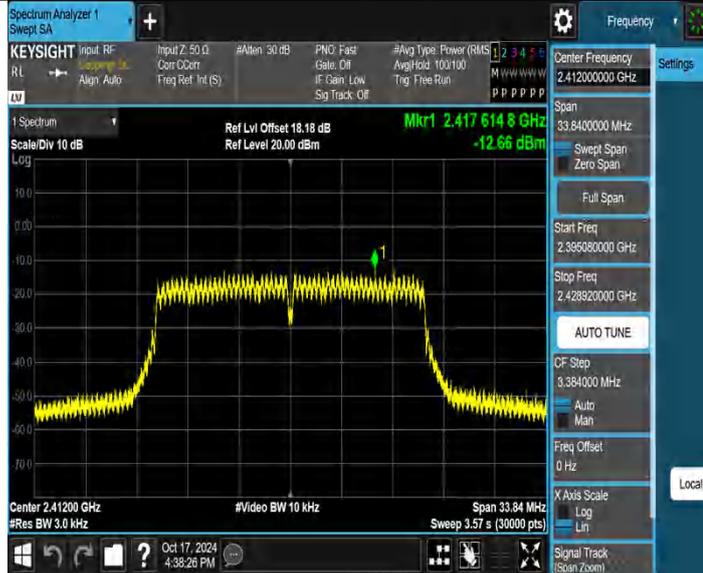
11G_Ant1_2437



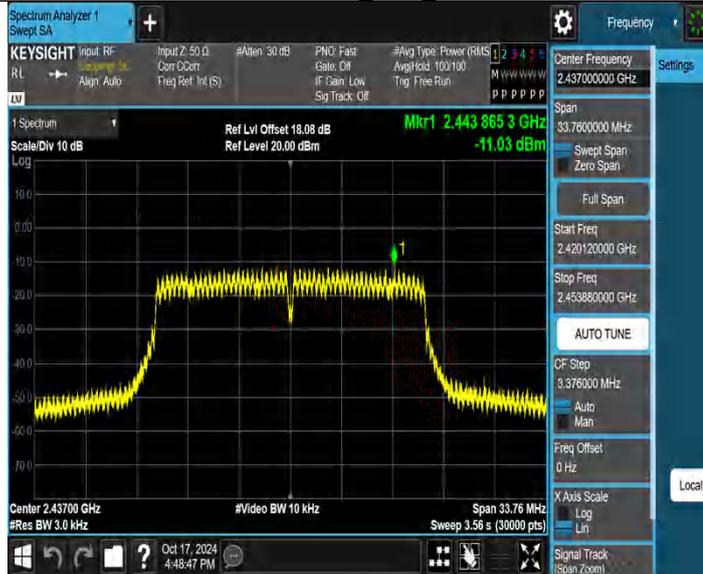
11G_Ant1_2462



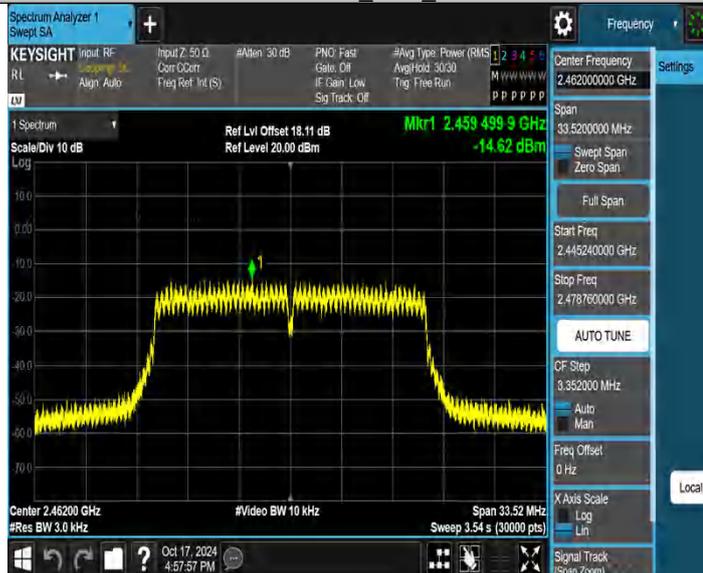
11N20SISO Ant1 2412



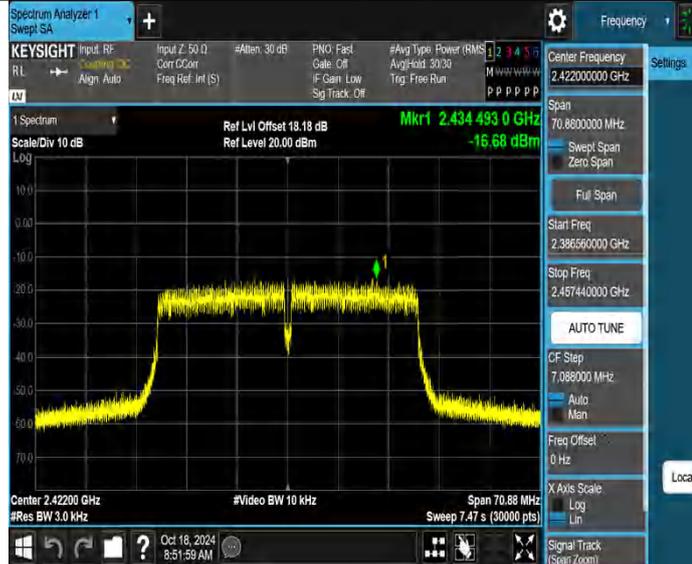
11N20SISO Ant1 2437



11N20SISO Ant1 2462



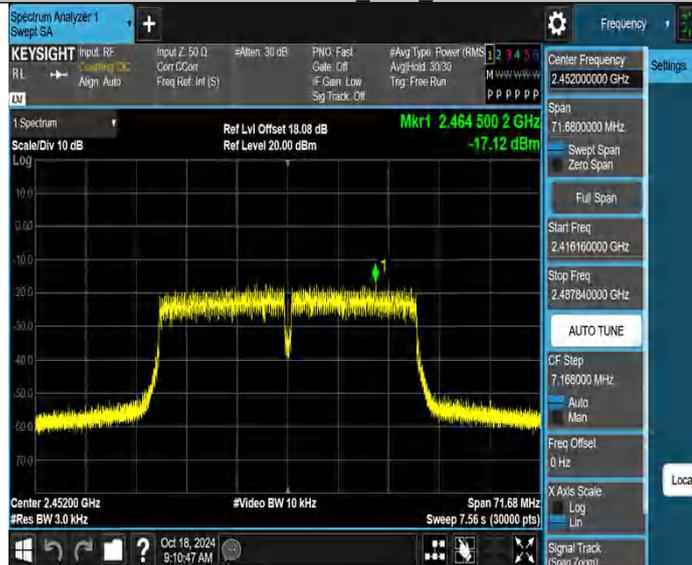
11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



Appendix B.2: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.040	2407.960	2416.000	0.5	PASS
		2437	8.560	2432.960	2441.520	0.5	PASS
		2462	8.520	2457.520	2466.040	0.5	PASS
11G	Ant1	2412	16.080	2404.080	2420.160	0.5	PASS
		2437	16.040	2429.120	2445.160	0.5	PASS
		2462	16.040	2453.880	2469.920	0.5	PASS
11N20SISO	Ant1	2412	16.920	2403.600	2420.520	0.5	PASS
		2437	16.880	2428.600	2445.480	0.5	PASS
		2462	16.760	2453.640	2470.400	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.480	2439.920	0.5	PASS
		2437	35.280	2419.480	2454.760	0.5	PASS
		2452	35.840	2434.080	2469.920	0.5	PASS

Test Graphs



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO Ant1_2412



11N20SISO Ant1_2437



11N20SISO Ant1_2462



11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



Appendix B.3: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.919	2406.0725	2417.9915	---	PASS
		2437	11.923	2431.0913	2443.0143	---	PASS
		2462	12.538	2455.9159	2468.4539	---	PASS
11G	Ant1	2412	16.866	2403.6051	2420.4711	---	PASS
		2437	17.236	2428.5518	2445.7878	---	PASS
		2462	17.055	2453.6404	2470.6954	---	PASS
11N20SISO	Ant1	2412	17.668	2403.2042	2420.8722	---	PASS
		2437	17.724	2428.1660	2445.8900	---	PASS
		2462	17.956	2453.1820	2471.1380	---	PASS
11N40SISO	Ant1	2422	36.403	2403.8488	2440.2518	---	PASS
		2437	36.375	2418.8751	2455.2501	---	PASS
		2452	36.377	2433.8807	2470.2577	---	PASS

Test Graphs



11G_Ant1_2412



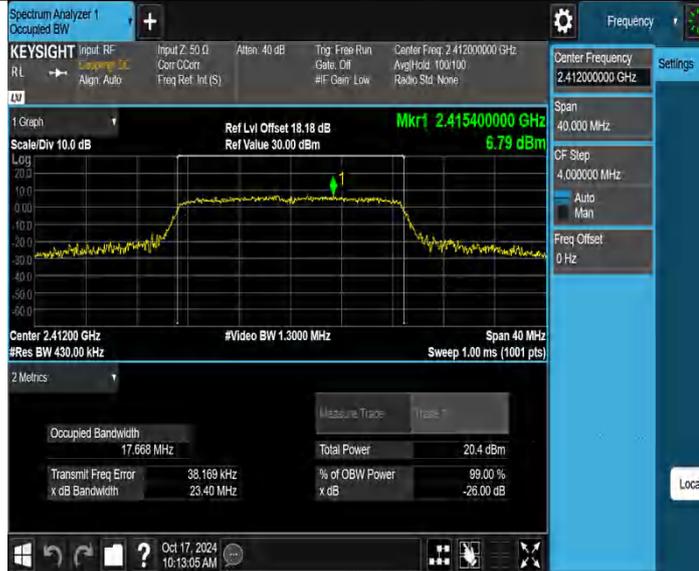
11G_Ant1_2437



11G_Ant1_2462



11N20SISO Ant1 2412



11N20SISO Ant1 2437



11N20SISO Ant1 2462



11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



Appendix B.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.52	-40.18	≤-14.48	PASS
		High	2462	6.81	-39.17	≤-13.19	PASS
11G	Ant1	Low	2412	2.56	-28.61	≤-17.44	PASS
		High	2462	2.32	-37.02	≤-17.68	PASS
11N20SISO	Ant1	Low	2412	-0.44	-30.94	≤-20.44	PASS
		High	2462	-1.44	-38.32	≤-21.44	PASS
11N40SISO	Ant1	Low	2422	-3.18	-32.88	≤-23.18	PASS
		High	2452	-3.78	-39.8	≤-23.78	PASS

Test Graphs

11B Ant1 Low 2412



11B Ant1 High 2462



11G Ant1 Low 2412



11G Ant1 High 2462



11N20SISO Ant1 Low 2412



11N20SISO Ant1 High 2462



11N40SISO Ant1 Low 2422



11N40SISO Ant1 High 2452



Appendix B.5: Test Results of Conducted Spurious Emissions

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.44	4.44	---	PASS
			30~1000	4.44	-42.15	≤-15.56	PASS
			1000~26500	4.44	-32.4	≤-15.56	PASS
		2437	Reference	4.16	4.16	---	PASS
			30~1000	4.16	-41.29	≤-15.84	PASS
			1000~26500	4.16	-32.5	≤-15.84	PASS
		2462	Reference	5.34	5.34	---	PASS
			30~1000	5.34	-41.9	≤-14.66	PASS
			1000~26500	5.34	-32.71	≤-14.66	PASS
11G	Ant1	2412	Reference	-0.33	-0.33	---	PASS
			30~1000	-0.33	-41.51	≤-20.33	PASS
			1000~26500	-0.33	-31.86	≤-20.33	PASS
		2437	Reference	1.35	1.35	---	PASS
			30~1000	1.35	-42.29	≤-18.65	PASS
			1000~26500	1.35	-33.24	≤-18.65	PASS
		2462	Reference	-1.01	-1.01	---	PASS
			30~1000	-1.01	-41.78	≤-21.01	PASS
			1000~26500	-1.01	-32.55	≤-21.01	PASS
11N20SISO	Ant1	2412	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-41.16	≤-20.07	PASS
			1000~26500	-0.07	-32.8	≤-20.07	PASS
		2437	Reference	-0.33	-0.33	---	PASS
			30~1000	-0.33	-41.65	≤-20.33	PASS
			1000~26500	-0.33	-32.76	≤-20.33	PASS
		2462	Reference	-3.59	-3.59	---	PASS
			30~1000	-3.59	-41.8	≤-23.59	PASS
			1000~26500	-3.59	-31.93	≤-23.59	PASS
11N40SISO	Ant1	2422	Reference	-3.26	-3.26	---	PASS
			30~1000	-3.26	-42.2	≤-23.26	PASS
			1000~26500	-3.26	-33.02	≤-23.26	PASS
		2437	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-41.08	≤-22.11	PASS
			1000~26500	-2.11	-33.17	≤-22.11	PASS
		2452	Reference	-5.29	-5.29	---	PASS
			30~1000	-5.29	-41.24	≤-25.29	PASS
			1000~26500	-5.29	-32.91	≤-25.29	PASS

Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



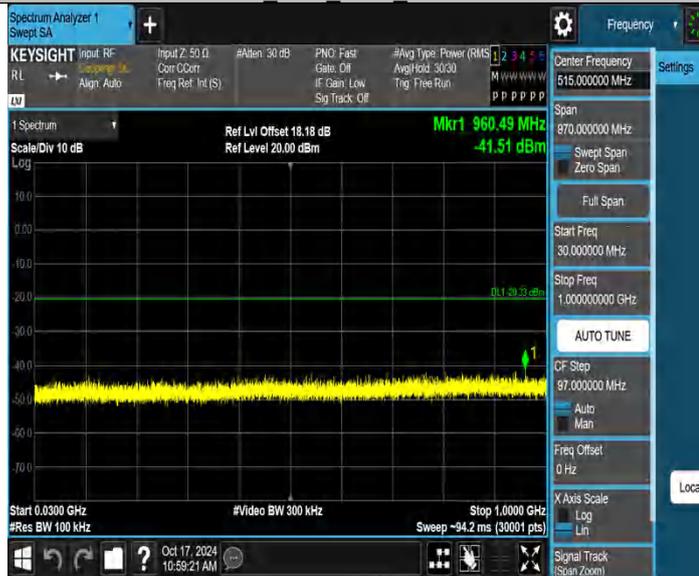
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



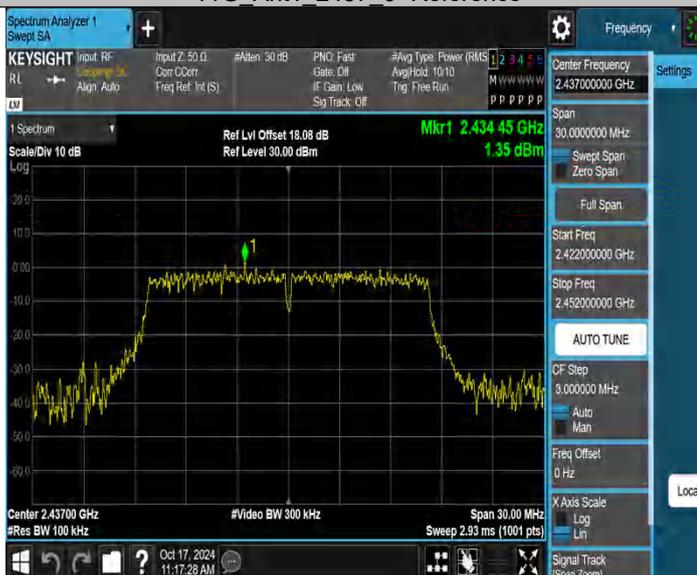
11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO Ant1 2412_0~Reference



11N20SISO Ant1 2412_30~1000



11N20SISO Ant1 2412_1000~26500



11N20SISO Ant1 2437 0~Reference



11N20SISO Ant1 2437 30~1000



11N20SISO Ant1 2437 1000~26500



11N20SISO Ant1 2462_0~Reference



11N20SISO Ant1 2462_30~1000



11N20SISO Ant1 2462_1000~26500



11N40SISO Ant1 2422_0~Reference



11N40SISO Ant1 2422_30~1000



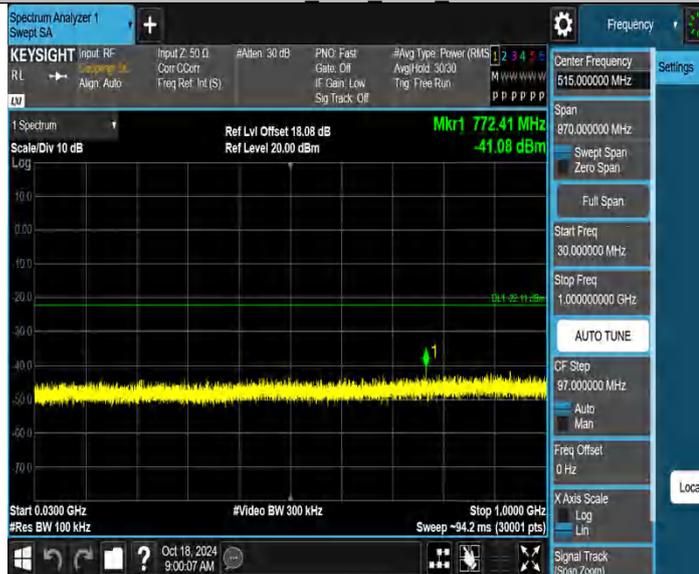
11N40SISO Ant1 2422_1000~26500



11N40SISO Ant1 2437 0~Reference



11N40SISO Ant1 2437 30~1000



11N40SISO Ant1 2437 1000~26500



11N40SISO Ant1 2452_0~Reference



11N40SISO Ant1 2452_30~1000



11N40SISO Ant1 2452_1000~26500



Appendix B.6: Test Results of Radiated Spurious Emissions

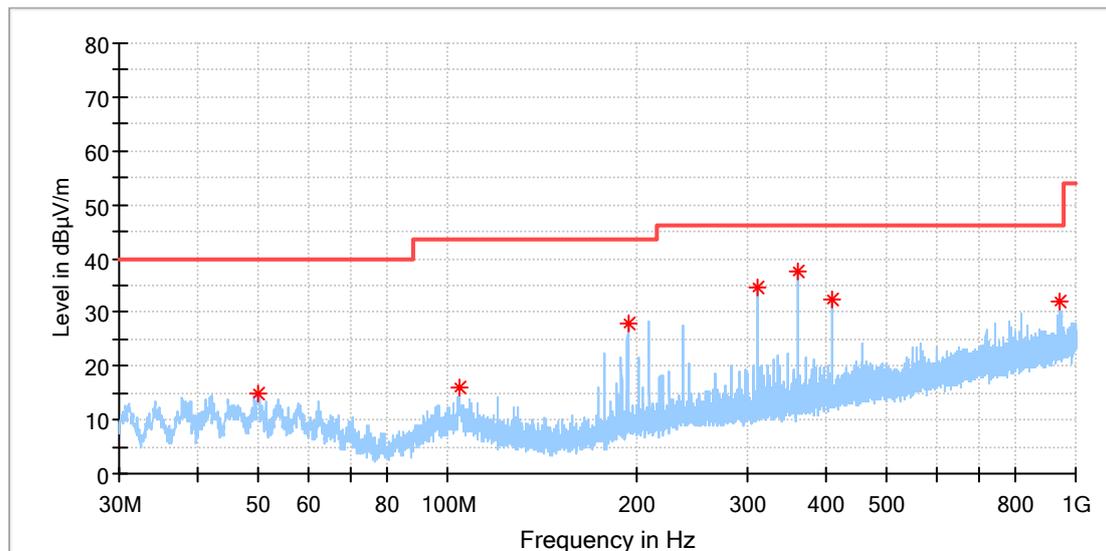
Note:

- 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.

30MHz - 1GHz

EUT Information

EUT Name:	Wireless equipment
Model:	CR8E
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168504088/A003835666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

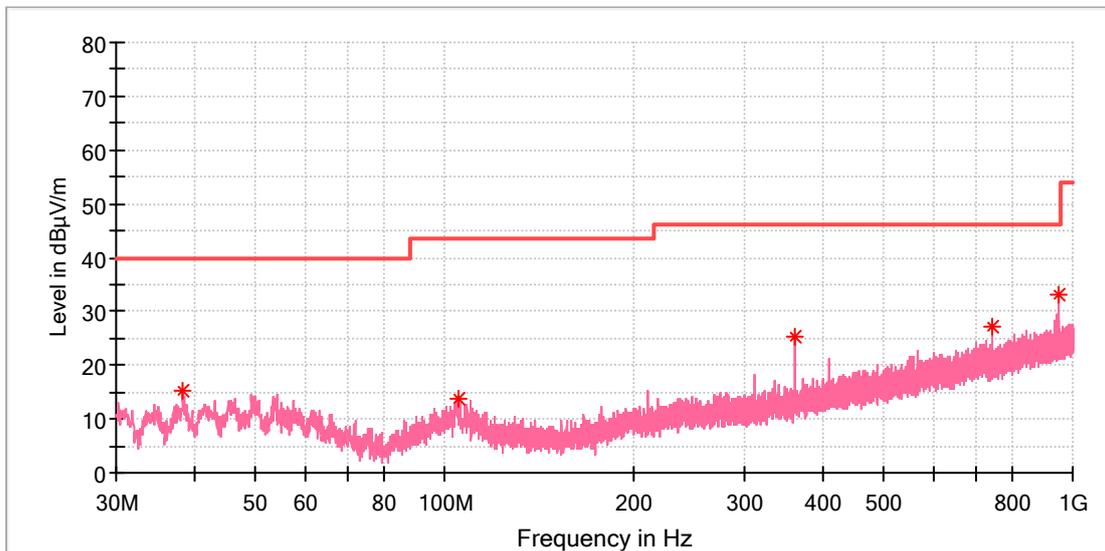
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.996923	15.03	40.00	24.97	100.0	H	120.0	-18.4
104.652692	15.97	43.50	27.53	100.0	H	144.0	-18.9
193.594231	27.82	43.50	15.68	100.0	H	311.0	-19.4
312.008846	34.67	46.00	11.33	100.0	H	52.0	-16.0
360.023846	37.63	46.00	8.37	100.0	H	296.0	-14.6
408.001539	32.29	46.00	13.71	100.0	H	296.0	-13.6
941.874615	31.87	46.00	14.13	100.0	H	0.0	-4.4

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11b_Ch6
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 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)
38.319615	15.29	40.00	24.71	100.0	V	0.0	-20.7
105.510769	13.73	43.50	29.77	100.0	V	21.0	-18.9
359.986539	25.35	46.00	20.65	100.0	V	40.0	-14.6
742.502308	27.17	46.00	18.83	100.0	V	256.0	-7.2
948.403462	33.22	46.00	12.78	100.0	V	124.0	-4.3

Final Result

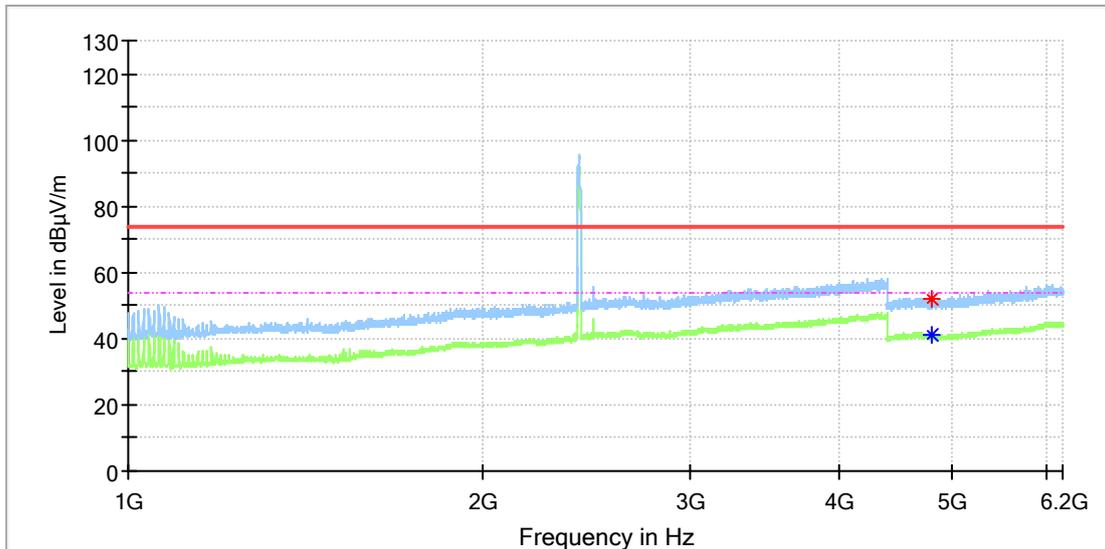
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---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.

EUT Information

EUT Name:	Wireless equipment
Model:	CR8E
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168504088/A003835666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

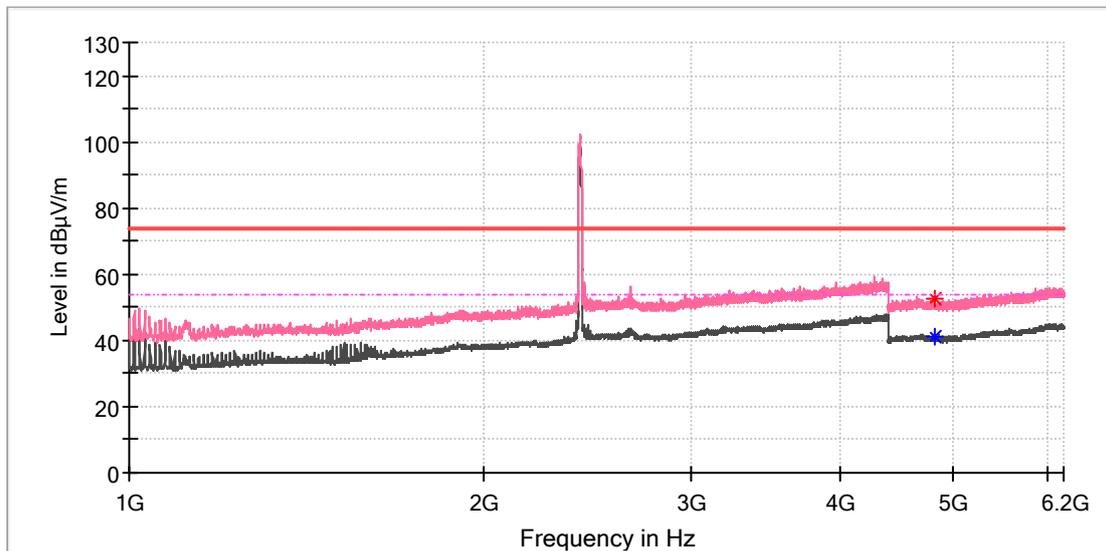
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4800.000000	52.23	---	74.00	21.77	150.0	H	266.0	13.3
4811.000000	---	41.21	54.00	12.79	150.0	H	266.0	13.3

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11b_Ch1
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

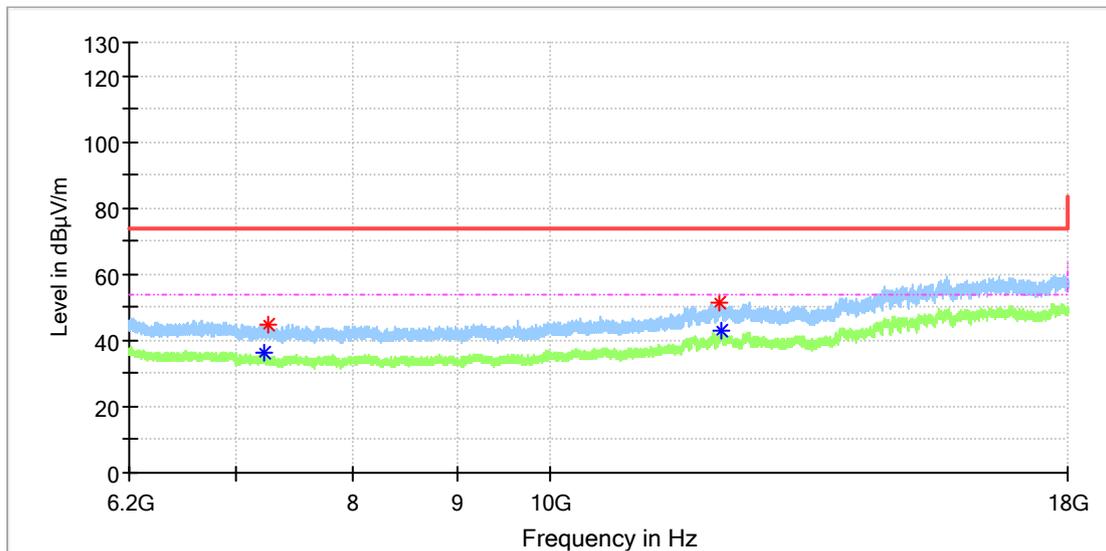
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	52.67	---	74.00	21.33	150.0	V	205.0	13.3
4824.000000	---	41.24	54.00	12.76	150.0	V	205.0	13.3

Final Result

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

EUT Information

EUT Name:	Wireless equipment
Model:	CR8E
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168504088/A003835666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

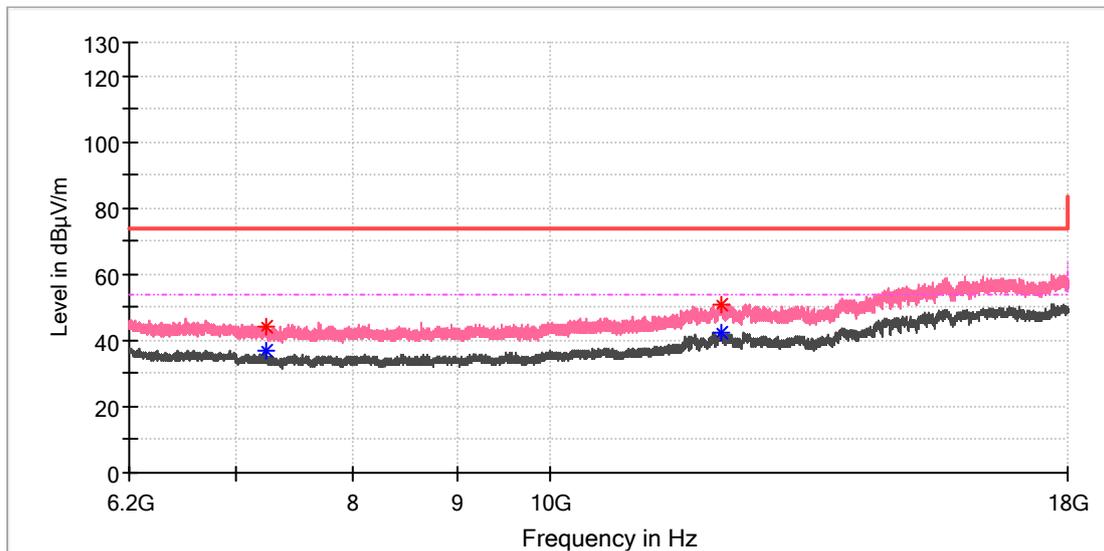
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7234.958333	---	36.33	54.00	17.67	150.0	H	159.0	8.6
7252.166667	45.04	---	74.00	28.96	150.0	H	35.0	8.5
12113.275000	51.19	---	74.00	22.81	150.0	H	83.0	15.8
12150.150000	---	42.78	54.00	11.22	150.0	H	113.0	16.7

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11b_Ch1
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

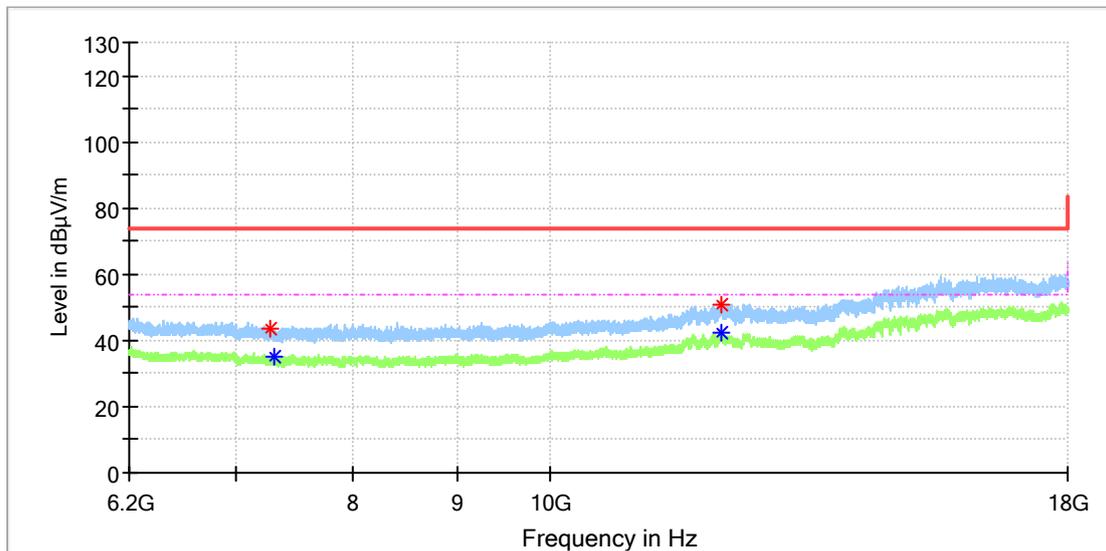
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7235.941667	---	37.10	54.00	16.90	150.0	V	132.0	8.6
7250.691667	44.00	---	74.00	30.00	150.0	V	308.0	8.5
12146.216667	---	42.54	54.00	11.46	150.0	V	356.0	16.6
12158.508333	50.97	---	74.00	23.03	150.0	V	4.0	16.3

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11b_Ch6
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

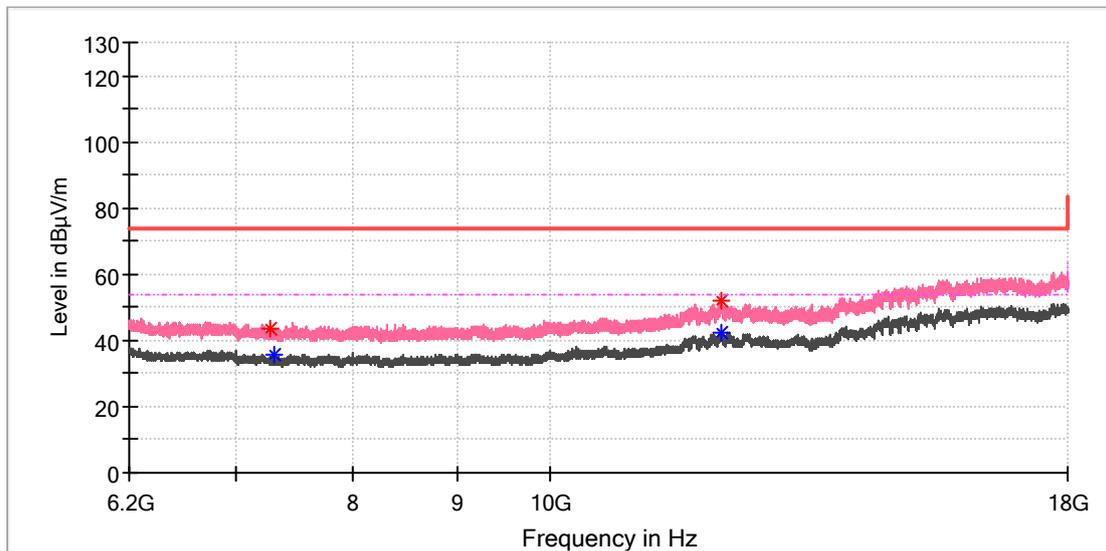
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7274.291667	43.43	---	74.00	30.57	150.0	H	237.0	8.4
7306.250000	---	34.83	54.00	19.17	150.0	H	329.0	8.3
12131.958333	---	42.38	54.00	11.62	150.0	H	358.0	16.3
12151.625000	50.89	---	74.00	23.11	150.0	H	188.0	16.6

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11b_Ch6
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

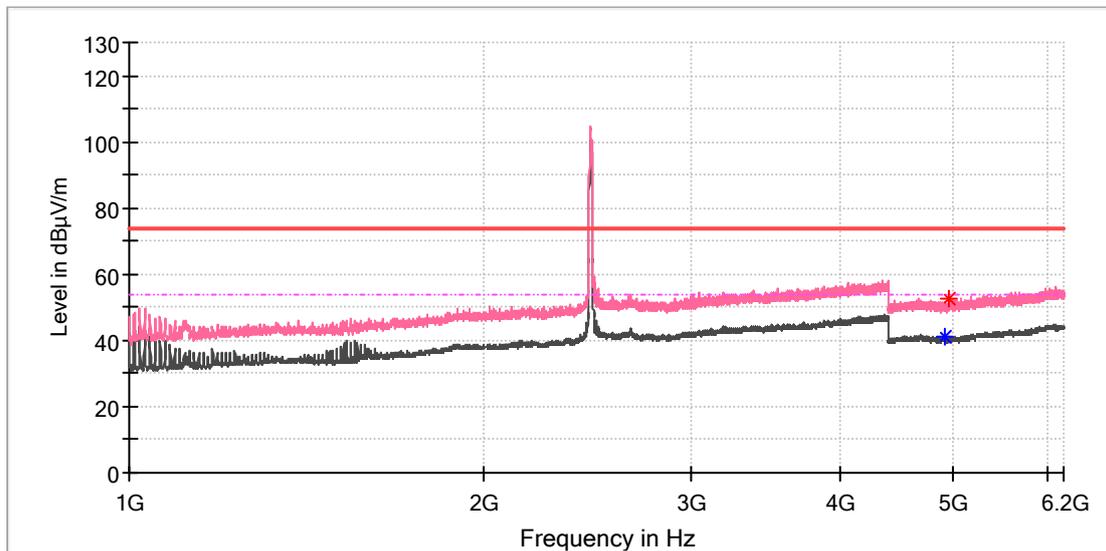
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7283.141667	43.70	---	74.00	30.30	150.0	V	193.0	8.4
7312.150000	---	35.46	54.00	18.54	150.0	V	146.0	8.2
12150.641667	---	42.61	54.00	11.39	150.0	V	44.0	16.7
12157.033333	51.70	---	74.00	22.30	150.0	V	15.0	16.4

Final Result

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

EUT Information

EUT Name:	Wireless equipment
Model:	CR8E
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168504088/A003835666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

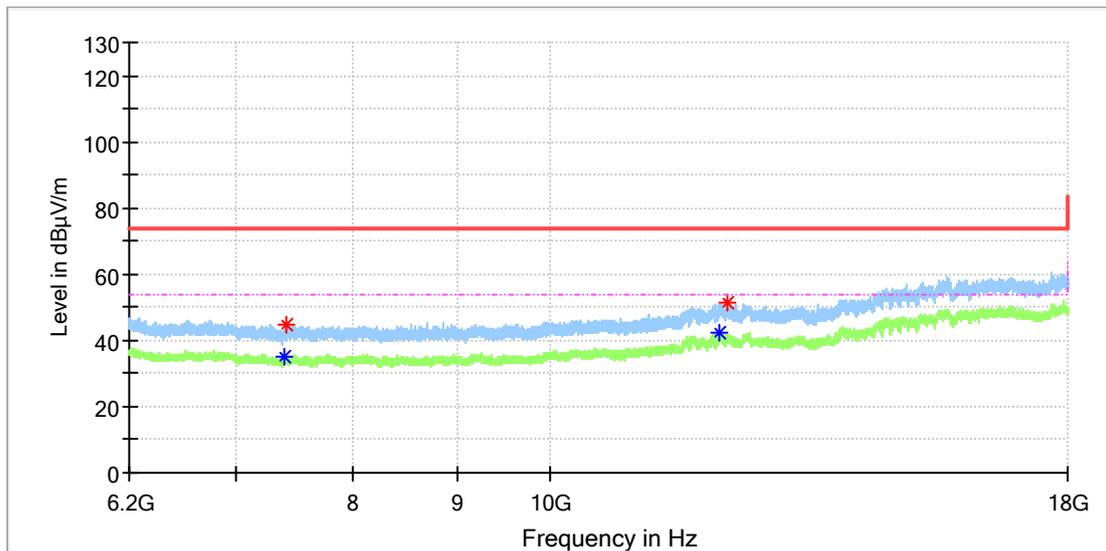
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	---	41.09	54.00	12.91	150.0	V	205.0	13.3
4951.000000	52.68	---	74.00	21.32	150.0	V	175.0	13.3

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11b_Ch11
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

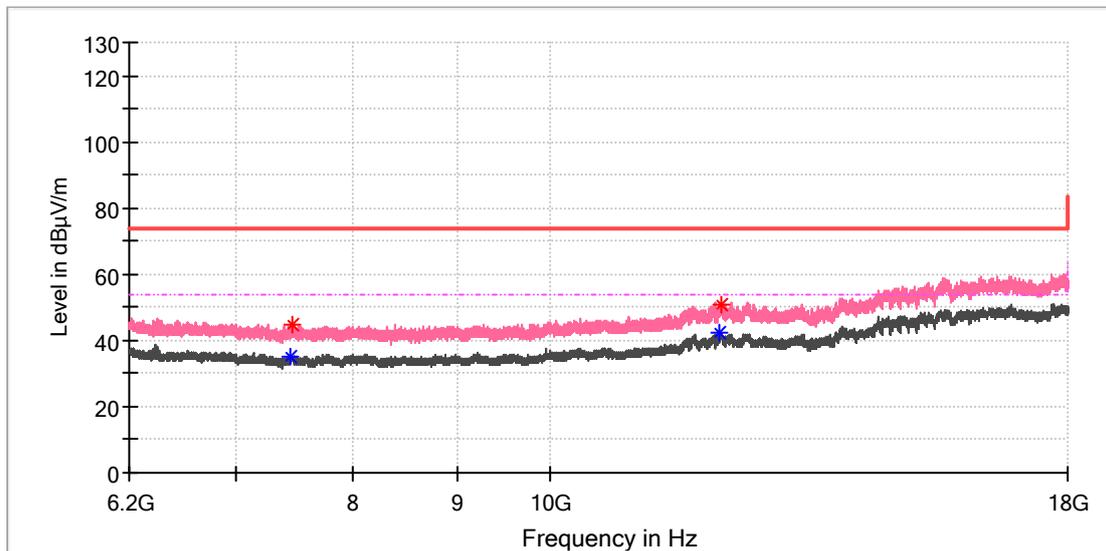
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7388.850000	---	34.98	54.00	19.02	150.0	H	208.0	8.2
7406.058333	44.52	---	74.00	29.48	150.0	H	346.0	8.3
12129.500000	---	42.46	54.00	11.54	150.0	H	334.0	16.2
12237.175000	51.40	---	74.00	22.60	150.0	H	244.0	16.0

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11b_Ch11
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

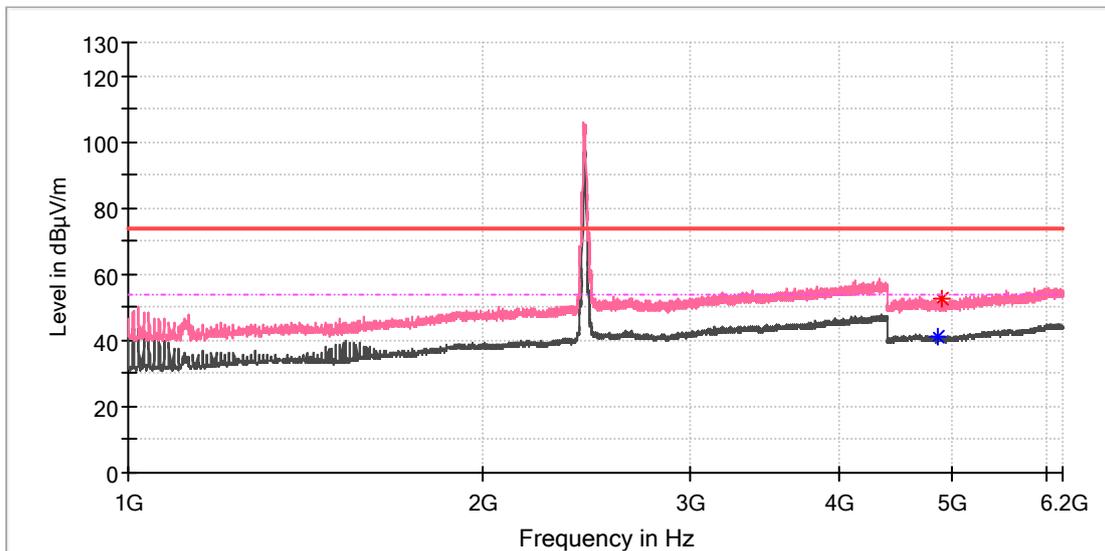
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7442.441667	---	35.20	54.00	18.80	150.0	V	143.0	8.4
7469.483333	44.71	---	74.00	29.29	150.0	V	56.0	8.6
12129.991667	---	42.24	54.00	11.76	150.0	V	293.0	16.2
12141.791667	51.04	---	74.00	22.96	150.0	V	274.0	16.5

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11g_Ch6
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

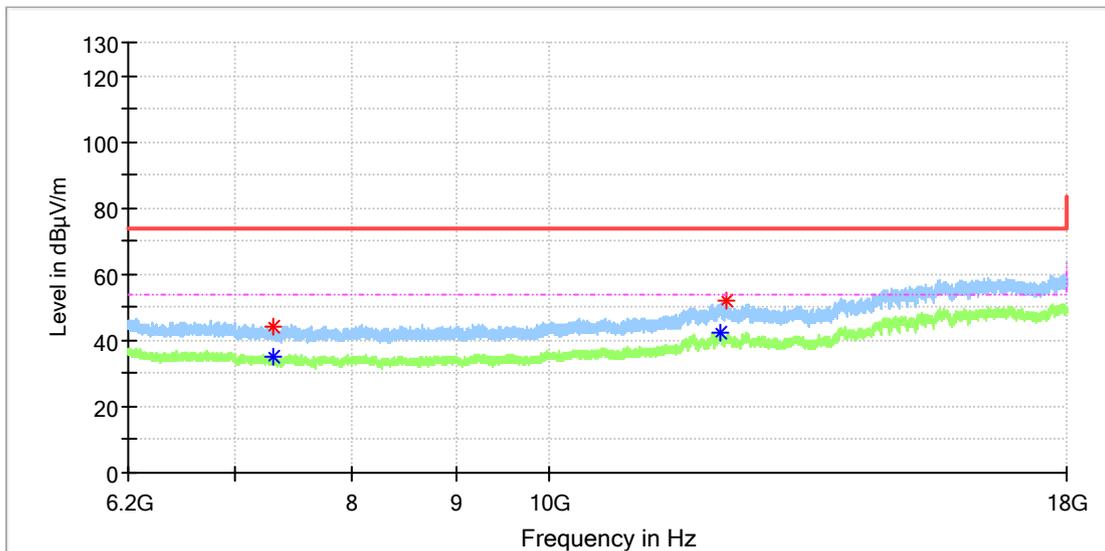
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4854.000000	---	41.00	54.00	13.00	150.0	V	47.0	13.3
4906.500000	52.64	---	74.00	21.36	150.0	V	5.0	13.3

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11g_Ch6
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

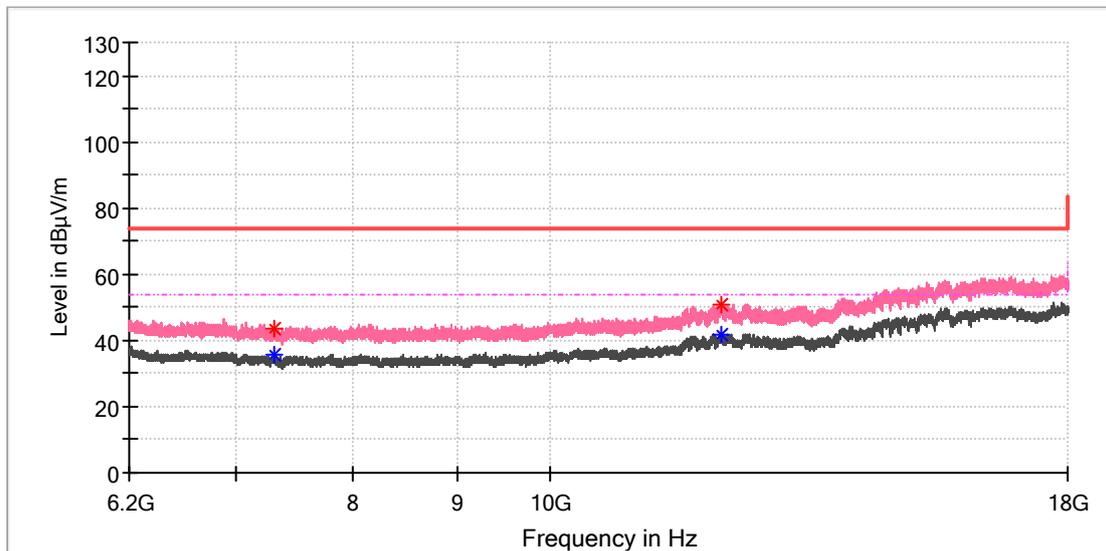
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.708333	43.92	---	74.00	30.08	150.0	H	151.0	8.2
7309.691667	---	35.32	54.00	18.68	150.0	H	69.0	8.2
12143.758333	---	42.33	54.00	11.67	150.0	H	2.0	16.6
12236.683333	51.71	---	74.00	22.29	150.0	H	291.0	16.0

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11g_Ch6
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

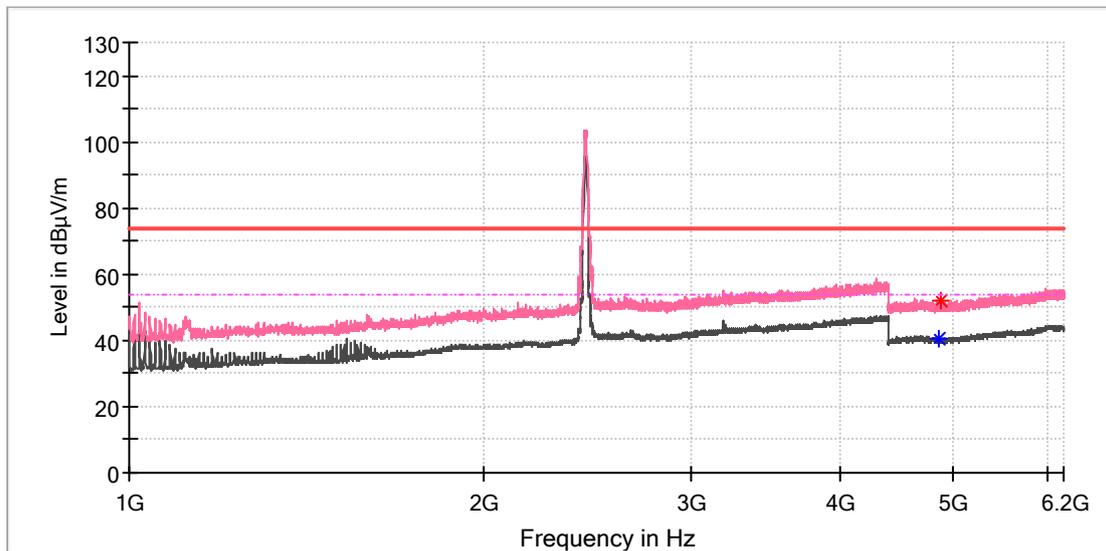
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7306.250000	43.26	---	74.00	30.74	150.0	V	177.0	8.3
7306.250000	---	35.53	54.00	18.47	150.0	V	177.0	8.3
12135.891667	50.52	---	74.00	23.48	150.0	V	28.0	16.4
12146.216667	---	42.02	54.00	11.98	150.0	V	190.0	16.6

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11n20_Ch6
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

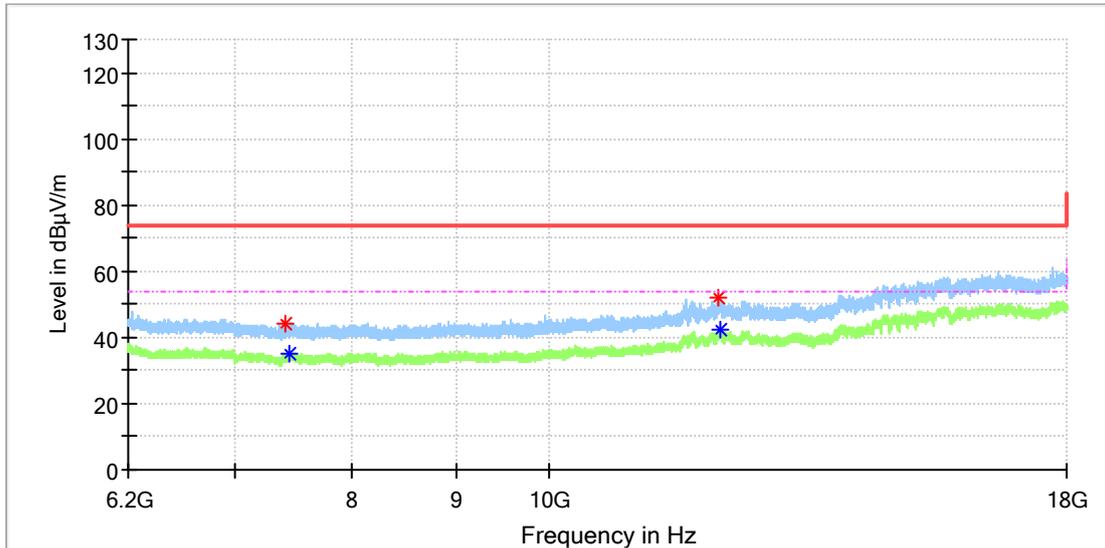
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4856.000000	---	40.60	54.00	13.40	150.0	V	269.0	13.3
4871.000000	52.25	---	74.00	21.75	150.0	V	0.0	13.3

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11n20_Ch6
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

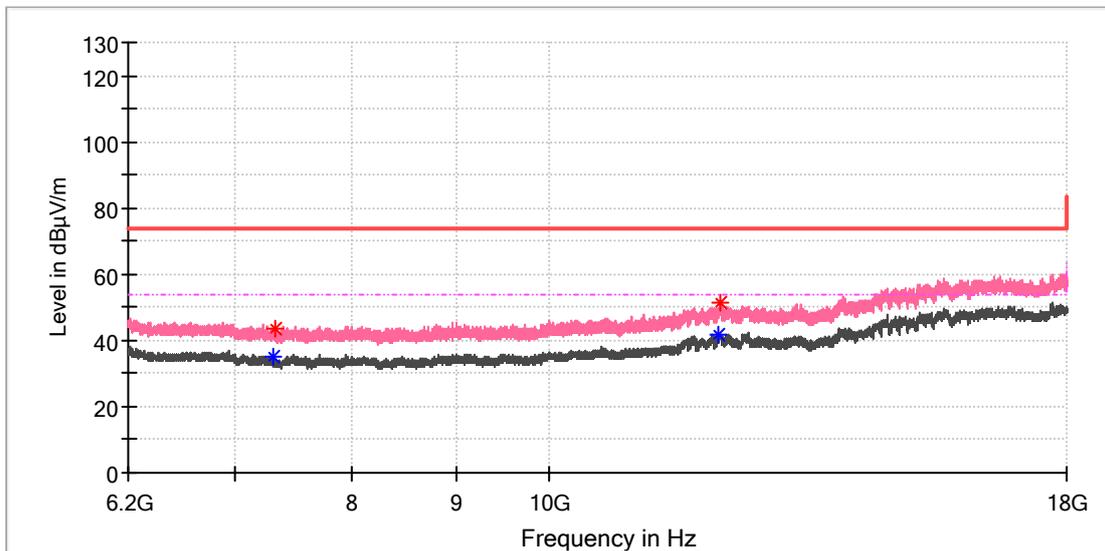
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7415.400000	44.06	---	74.00	29.94	150.0	H	14.0	8.3
7449.816667	---	35.10	54.00	18.90	150.0	H	353.0	8.5
12123.600000	52.12	---	74.00	21.88	150.0	H	120.0	16.0
12150.641667	---	42.32	54.00	11.68	150.0	H	157.0	16.7

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11n20_Ch6
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:53%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

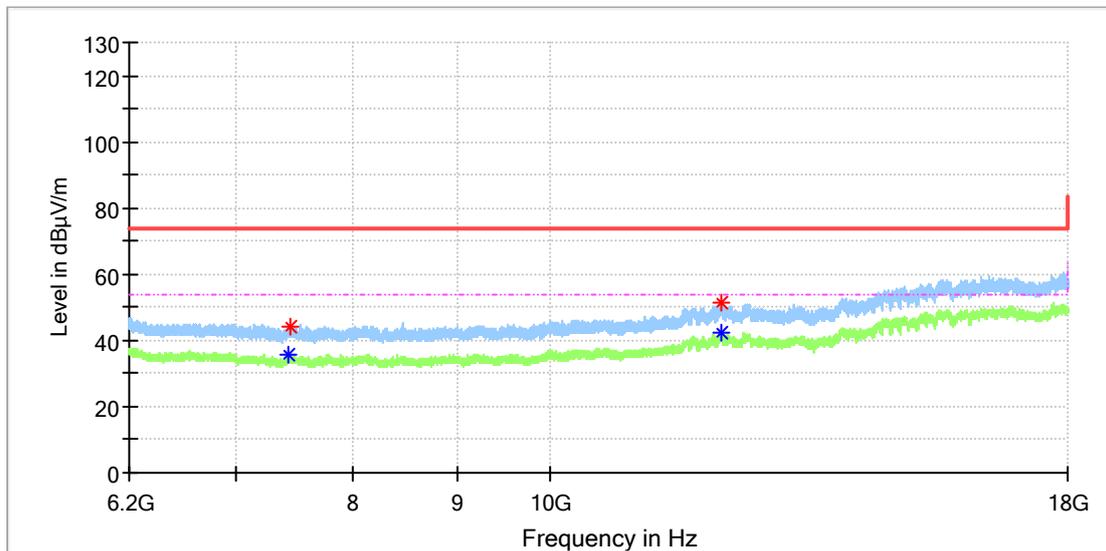
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7306.741667	---	35.28	54.00	18.72	150.0	V	141.0	8.3
7327.391667	43.77	---	74.00	30.23	150.0	V	71.0	8.1
12122.616667	---	41.69	54.00	12.31	150.0	V	48.0	16.0
12151.625000	51.49	---	74.00	22.51	150.0	V	36.0	16.6

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11n40_Ch6
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 Remark: Temp 24 Humi:50%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

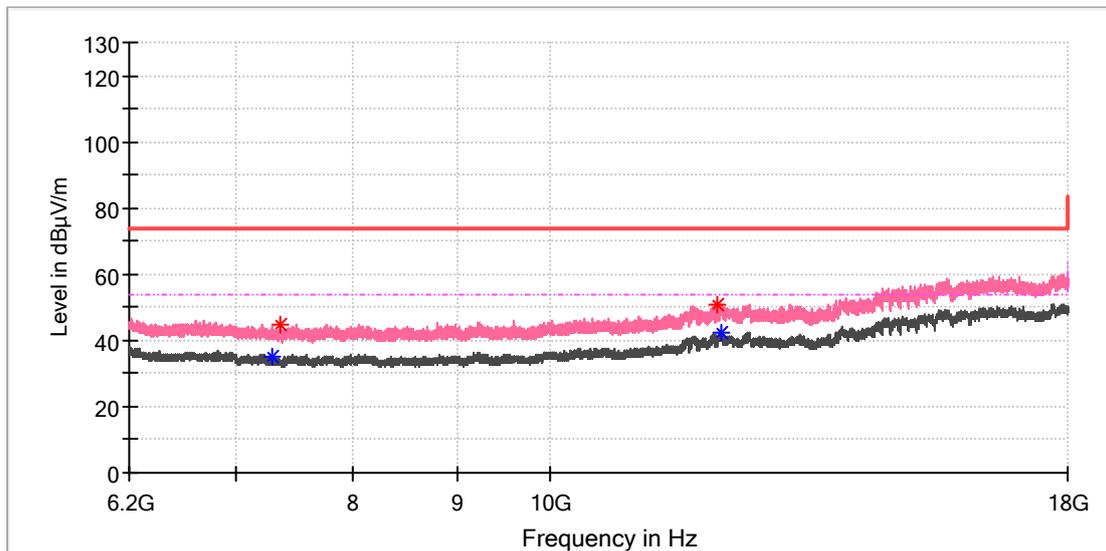
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7430.150000	---	35.55	54.00	18.45	150.0	H	152.0	8.4
7452.275000	43.95	---	74.00	30.05	150.0	H	321.0	8.5
12147.200000	---	42.46	54.00	11.54	150.0	H	94.0	16.7
12150.150000	51.25	---	74.00	22.75	150.0	H	188.0	16.7

Final Result

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

EUT Information

EUT Name: Wireless equipment
 Model: CR8E
 Test Mode: WIFI 2.4G_11n40_Ch6
 Order No/Sample No: 168504088/A003835666-001
 Test Voltage: Battery
 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)
7291.008333	---	35.16	54.00	18.84	150.0	V	159.0	8.3
7352.466667	44.95	---	74.00	29.05	150.0	V	123.0	8.1
12100.983333	50.80	---	74.00	23.20	150.0	V	0.0	15.5
12145.233333	---	42.15	54.00	11.85	150.0	V	206.0	16.6

Final Result

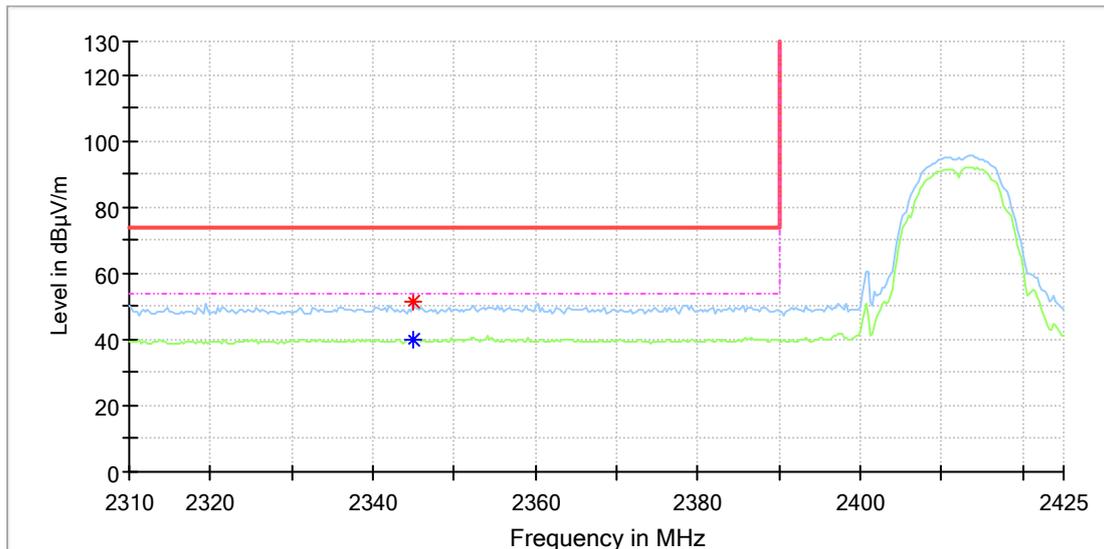
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix B.7: Test Results of Radiated Emissions in Restricted Bands

Wi-Fi 802.11 b mode

EUT Information

EUT Name:	Wireless equipment
Model:	CR8E
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168504088/A003835666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
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)
2345.000000	---	40.17	54.00	13.83	150.0	H	346.0	8.4
2345.000000	51.41	---	74.00	22.59	150.0	H	346.0	8.4

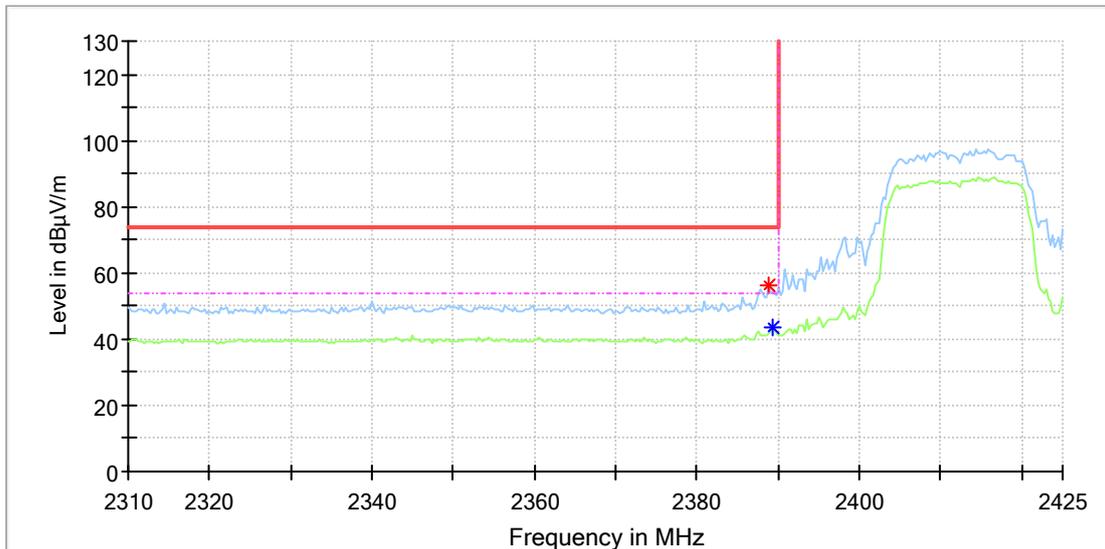
Final_Result

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

Wi-Fi 802.11 g mode

EUT Information

EUT Name:	Wireless equipment
Model:	CR8E
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	168504088/A003835666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

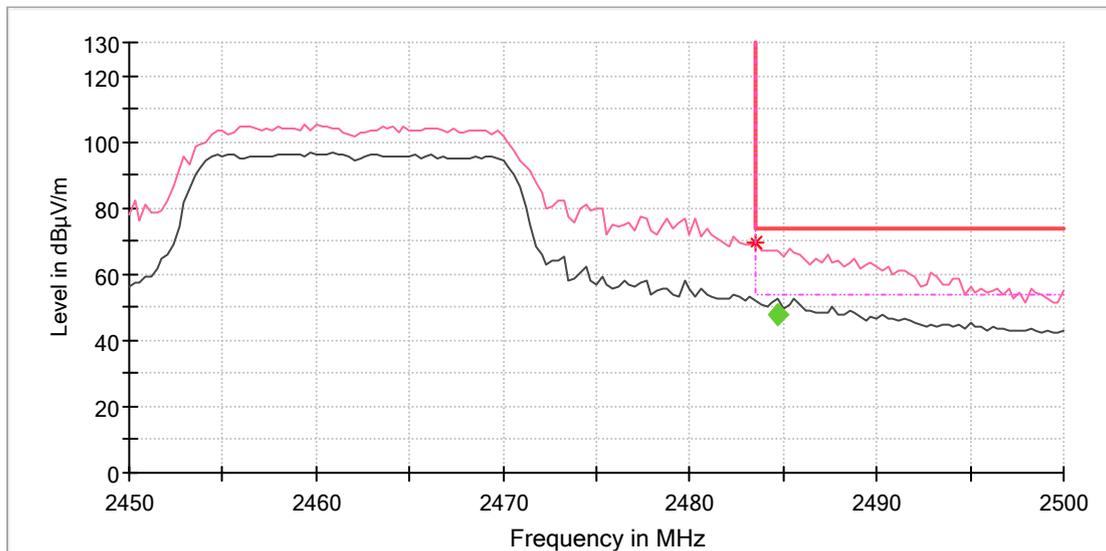
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.823529	56.35	---	74.00	17.65	150.0	H	258.0	8.5
2389.411765	---	43.39	54.00	10.61	150.0	H	269.0	8.5

Final Result

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

EUT Information

EUT Name:	Wireless equipment
Model:	CR8E
Test Mode:	WIFI 2.4G_11g_Ch11
Order No/Sample No:	168504088/A003835666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
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)
2483.529412	69.39	---	74.00	4.61	150.0	V	185.0	9.0

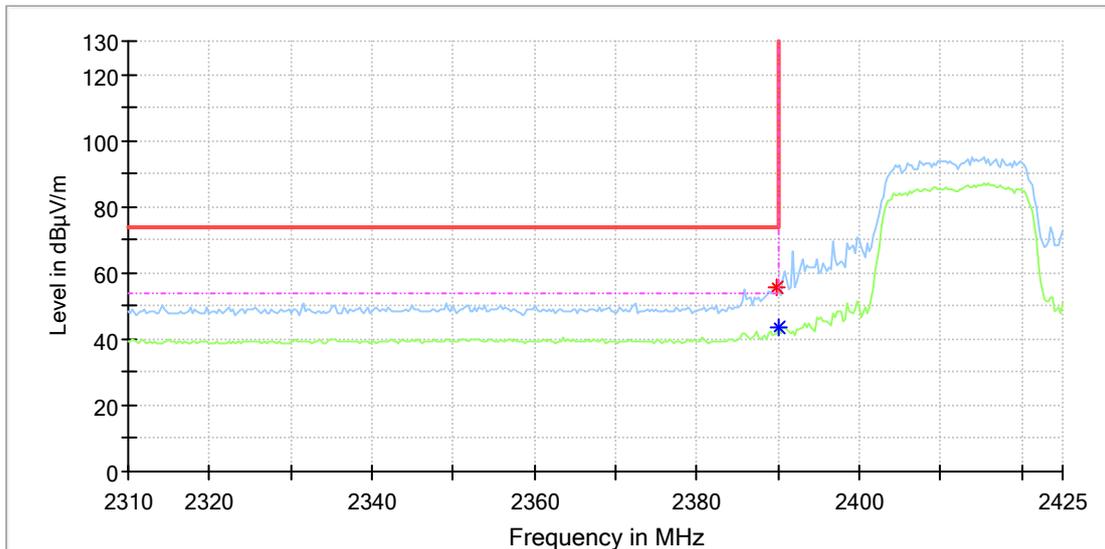
Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.705882	47.75	54.00	6.25	145.0	V	311.0	9.0

Wi-Fi 802.11 n(HT20) mode

EUT Information

EUT Name:	Wireless equipment
Model:	CR8E
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168504088/A003835666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

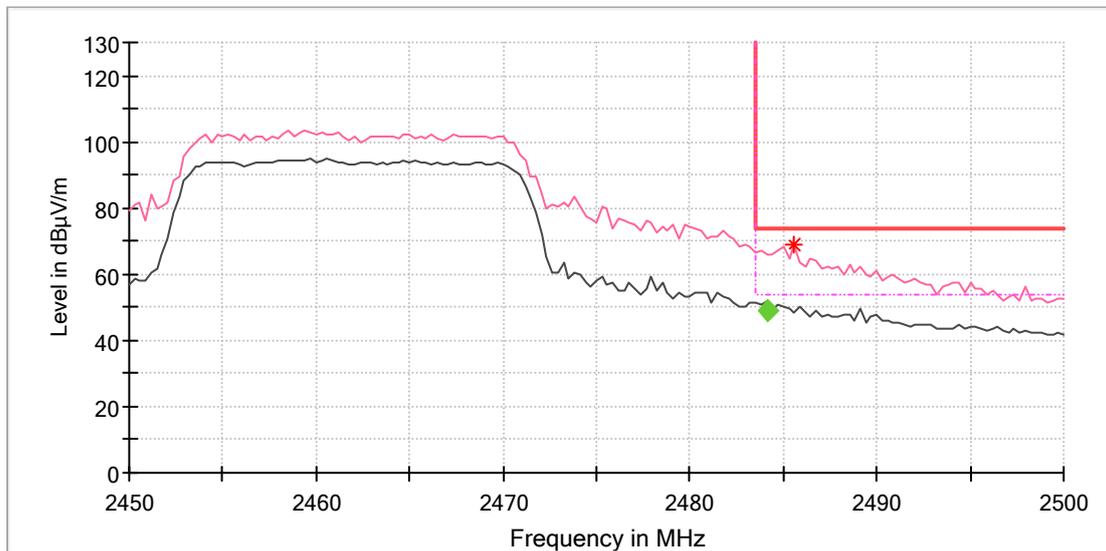
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.705882	55.73	---	74.00	18.27	150.0	H	267.0	8.5
2390.000000	---	43.24	54.00	10.76	150.0	H	260.0	8.5

Final Result

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

EUT Information

EUT Name:	Wireless equipment
Model:	CR8E
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168504088/A003835666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
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)
2485.588235	68.67	---	74.00	5.33	150.0	V	178.0	9.0

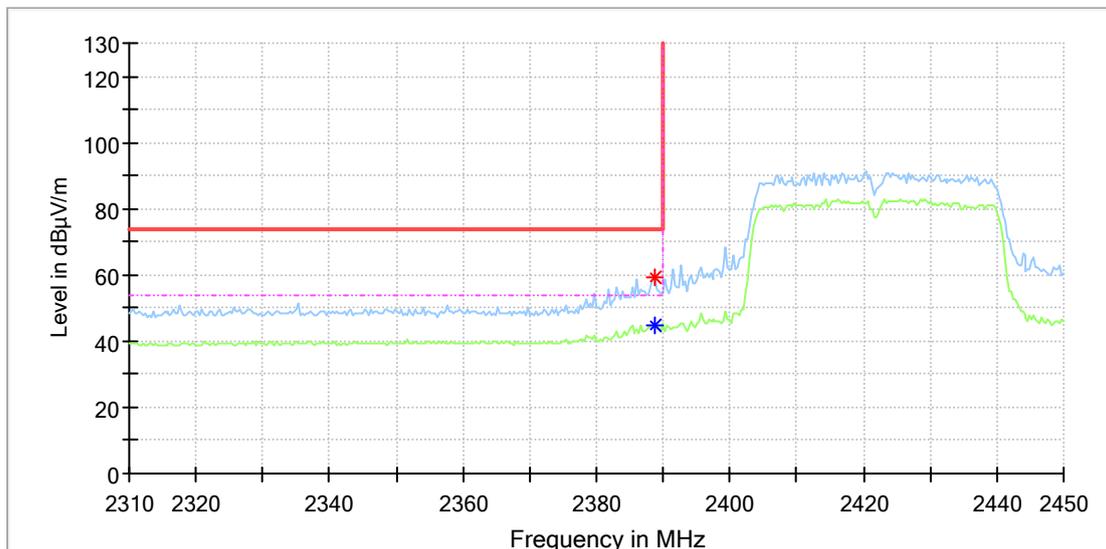
Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	48.79	54.00	5.21	145.0	V	173.0	9.0

Wi-Fi 802.11 n(HT40) mode

EUT Information

EUT Name:	Wireless equipment
Model:	CR8E
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168504088/A003835666-001
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

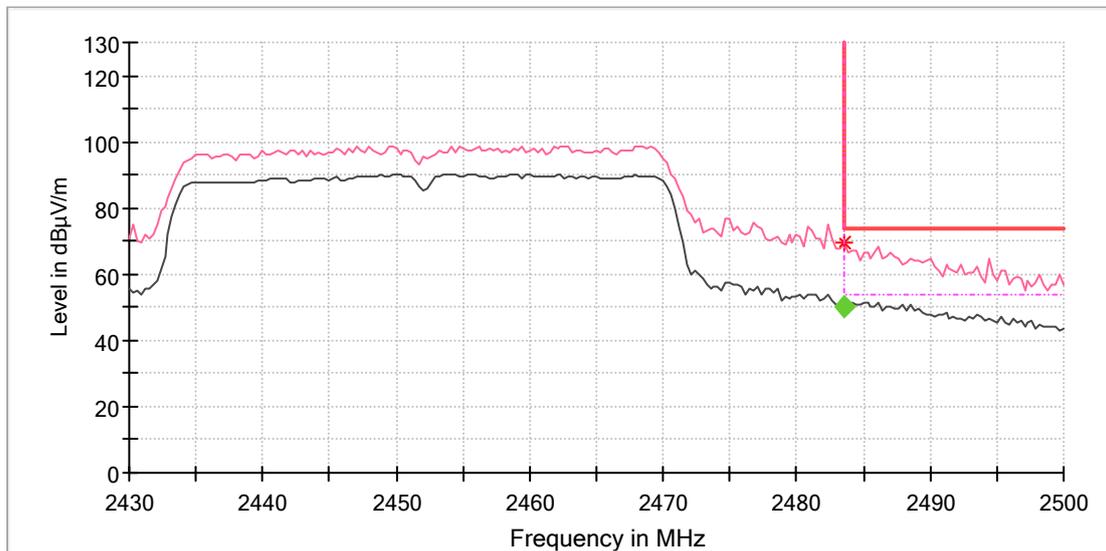
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.823529	59.19	---	74.00	14.81	150.0	H	267.0	8.5
2388.823529	---	44.96	54.00	9.04	150.0	H	267.0	8.5

Final Result

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

EUT Information

EUT Name:	Wireless equipment
Model:	CR8E
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	168504088/A003835666-001
Test Voltage:	Battery
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)
2483.529412	69.64	---	74.00	4.36	150.0	V	0.0	9.0

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	50.35	54.00	3.65	149.0	V	-2.0	9.0

Appendix B.8: Test Results of Conducted Emission on AC Mains

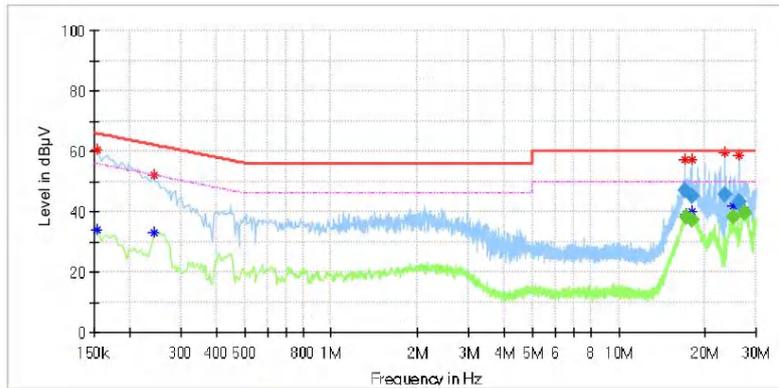
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1 / 2

Test Report

EUT Information

EUT Name:
Order Number:
Model: CR8E
Test Mode: Charging+working
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By./Review By: Solomon Wu / Shower Dai
Tem./Hum./Pressure: 24.2°C/52.2%/101kPa
Remark: SR3



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	---	33.86	55.78	21.93	L1	9.9
0.154000	60.27	---	65.78	5.52	L1	9.9
0.242000	---	33.02	52.03	19.01	L1	9.9
0.242000	52.29	---	62.03	9.74	L1	9.9
17.033500	57.30	---	60.00	2.70	L1	10.4
17.165500	---	39.01	50.00	10.99	L1	10.4
18.045500	57.25	---	60.00	2.75	L1	10.4
18.045500	---	40.16	50.00	9.84	L1	10.4
23.477500	59.49	---	60.00	0.51	L1	10.4
24.917500	---	41.82	50.00	8.18	L1	10.4
26.241500	58.42	---	60.00	1.58	L1	10.4
27.493500	---	40.55	50.00	9.45	L1	10.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
17.033500	46.99	---	60.00	13.01	1000.0	9.000	L1	10.4
17.165500	---	38.03	50.00	11.97	1000.0	9.000	L1	10.4
18.045500	---	37.36	50.00	12.64	1000.0	9.000	L1	10.4
18.045500	45.14	---	60.00	14.86	1000.0	9.000	L1	10.4
23.477500	45.35	---	60.00	14.65	1000.0	9.000	L1	10.4
24.917500	---	38.12	50.00	11.88	1000.0	9.000	L1	10.4
26.241500	43.13	---	60.00	16.87	1000.0	9.000	L1	10.4

10/15/2024

TUV Rheinland (Shenzhen) Co., Ltd.

2 / 2

27.493500	---	39.58	50.00	10.42	1000.0	9.000	L1	10.4
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10/15/2024

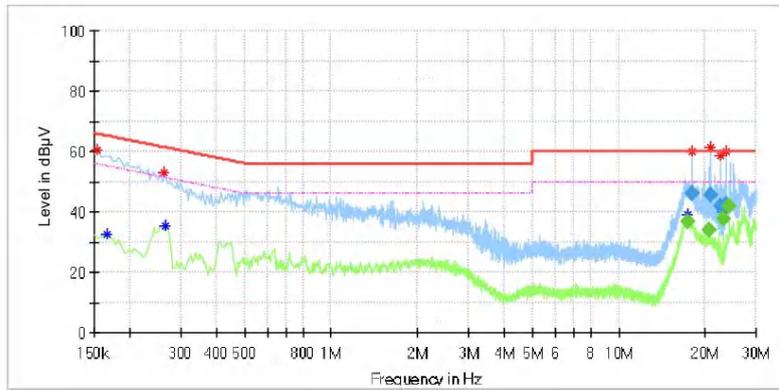
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1 / 2

Test Report

EUT Information

EUT Name:
Order Number:
Model: CR8E
Test Mode: Charging+working
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By./Review By: Soloman Wu / Shower Dai
Tem./Hum./Pressure: 24.2°C/52.2%/101kPa
Remark: SR3



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	60.37	---	65.78	5.41	N	9.8
0.166000	---	32.63	55.16	22.53	N	9.8
0.262000	53.02	---	61.37	8.35	N	9.8
0.266000	---	35.25	51.24	15.99	N	9.8
17.394500	---	38.90	50.00	11.10	N	10.2
17.958500	60.06	---	60.00	-0.06	N	10.2
20.621500	---	34.25	50.00	15.75	N	10.3
20.721500	61.47	---	60.00	-1.47	N	10.3
22.465500	58.56	---	60.00	1.44	N	10.3
23.197500	---	39.80	50.00	10.20	N	10.3
23.485500	59.82	---	60.00	0.18	N	10.3
24.057500	---	41.79	50.00	8.21	N	10.3

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
17.394500	---	36.92	50.00	13.08	1000.0	9.000	N	10.2
17.958500	46.10	---	60.00	13.90	1000.0	9.000	N	10.2
20.621500	---	33.99	50.00	16.01	1000.0	9.000	N	10.3
20.721500	45.55	---	60.00	14.45	1000.0	9.000	N	10.3
22.465500	41.91	---	60.00	18.09	1000.0	9.000	N	10.3
23.197500	---	37.86	50.00	12.14	1000.0	9.000	N	10.3
23.485500	42.12	---	60.00	17.88	1000.0	9.000	N	10.3

10/15/2024

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2 / 2

24.057500	---	41.72	50.00	8.28	1000.0	9.000	N	10.3
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10/15/2024