

Appendix B: Test Results of 5.8GHz Wi-Fi

APPENDIX B: TEST RESULTS OF 5.8GHZ WI-FI	1
APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
<i>SISO mode (Worst case_ANT1)</i>	2
<i>MIMO mode</i>	10
APPENDIX B.2: TEST RESULTS OF FREQUENCY STABILITY	23
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH	24
APPENDIX B.4: TEST RESULTS OF 6DB BANDWIDTH	32
APPENDIX B.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	40
<i>30MHz - 1GHz (Worst case)</i>	40
<i>1GHz - 18GHz</i>	42
APPENDIX B.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	58
<i>Wi-Fi 802.11 a mode</i>	58
<i>Wi-Fi 802.11 ac(VHT40) mode</i>	62
<i>Wi-Fi 802.11 ac(VHT80) mode</i>	66
<i>Wi-Fi 802.11 ax(HE20) mode</i>	70
APPENDIX B.7: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	74

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

SISO mode (Worst case_ANT1)

TestMode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	8.99	≤30.00	PASS
		5785	8.94	≤30.00	PASS
		5825	8.80	≤30.00	PASS
11N20SISO	Ant1	5745	8.91	≤30.00	PASS
		5785	8.71	≤30.00	PASS
		5825	8.32	≤30.00	PASS
11N40SISO	Ant1	5755	5.70	≤30.00	PASS
		5795	5.28	≤30.00	PASS
11AC20SISO	Ant1	5745	8.53	≤30.00	PASS
		5785	8.63	≤30.00	PASS
		5825	8.47	≤30.00	PASS
11AC40SISO	Ant1	5755	5.57	≤30.00	PASS
		5795	5.24	≤30.00	PASS
11AC80SISO	Ant1	5775	2.53	≤30.00	PASS
11AX20SISO	Ant1	5745	8.44	≤30.00	PASS
		5785	8.25	≤30.00	PASS
		5825	8.27	≤30.00	PASS
11AX40SISO	Ant1	5755	5.89	≤30.00	PASS
		5795	5.60	≤30.00	PASS
11AX80SISO	Ant1	5775	2.12	≤30.00	PASS

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO Ant1 5745



11N20SISO Ant1 5785



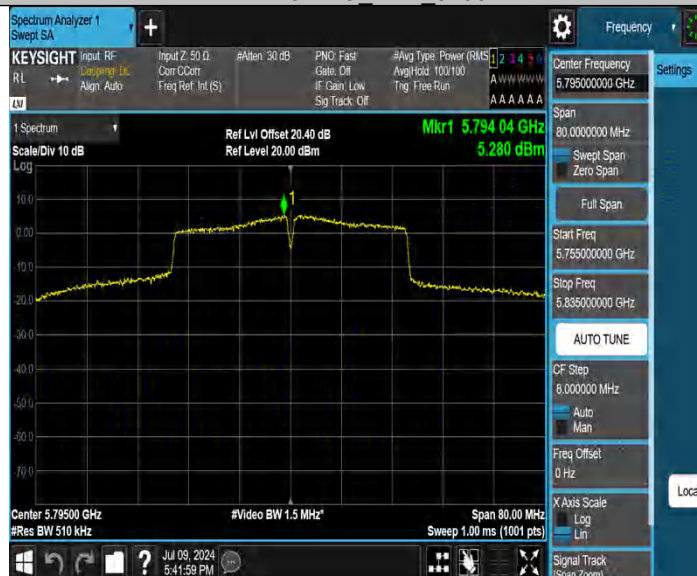
11N20SISO Ant1 5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



11AX20SISO_Ant1_5745





11AX40SISO_Ant1_5795



11AX80SISO_Ant1_5775



MIMO mode

TestMode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11N20MIMO	Ant0	5745	4.60	≤30.00	PASS
	Ant1	5745	7.00	≤30.00	PASS
	total	5745	8.97	≤30.00	PASS
	Ant0	5785	5.00	≤30.00	PASS
	Ant1	5785	7.26	≤30.00	PASS
	total	5785	9.29	≤30.00	PASS
	Ant0	5825	5.05	≤30.00	PASS
	Ant1	5825	7.09	≤30.00	PASS
	total	5825	9.20	≤30.00	PASS
11N40MIMO	Ant0	5755	-3.55	≤30.00	PASS
	Ant1	5755	4.81	≤30.00	PASS
	total	5755	5.40	≤30.00	PASS
	Ant0	5795	2.22	≤30.00	PASS
	Ant1	5795	4.48	≤30.00	PASS
	total	5795	6.51	≤30.00	PASS
11AC20MIMO	Ant0	5745	4.85	≤30.00	PASS
	Ant1	5745	7.42	≤30.00	PASS
	total	5745	9.33	≤30.00	PASS
	Ant0	5785	4.82	≤30.00	PASS
	Ant1	5785	7.29	≤30.00	PASS
	total	5785	9.24	≤30.00	PASS
	Ant0	5825	4.91	≤30.00	PASS
	Ant1	5825	6.92	≤30.00	PASS
	total	5825	9.04	≤30.00	PASS
11AC40MIMO	Ant0	5755	2.21	≤30.00	PASS
	Ant1	5755	4.44	≤30.00	PASS
	total	5755	6.48	≤30.00	PASS
	Ant0	5795	2.42	≤30.00	PASS
	Ant1	5795	4.82	≤30.00	PASS
	total	5795	6.79	≤30.00	PASS
11AC80MIMO	Ant0	5775	-0.26	≤30.00	PASS
	Ant1	5775	1.94	≤30.00	PASS
	total	5775	3.99	≤30.00	PASS
11AX20MIMO	Ant0	5745	4.83	≤30.00	PASS
	Ant1	5745	7.60	≤30.00	PASS
	total	5745	9.44	≤30.00	PASS
	Ant0	5785	4.98	≤30.00	PASS
	Ant1	5785	7.25	≤30.00	PASS
	total	5785	9.27	≤30.00	PASS
	Ant0	5825	4.99	≤30.00	PASS
	Ant1	5825	7.04	≤30.00	PASS
	total	5825	9.15	≤30.00	PASS
11AX40MIMO	Ant0	5755	1.78	≤30.00	PASS
	Ant1	5755	4.24	≤30.00	PASS
	total	5755	6.19	≤30.00	PASS
	Ant0	5795	2.54	≤30.00	PASS
	Ant1	5795	4.46	≤30.00	PASS
	total	5795	6.62	≤30.00	PASS
11AX80MIMO	Ant0	5775	-0.36	≤30.00	PASS
	Ant1	5775	1.60	≤30.00	PASS
	total	5775	3.74	≤30.00	PASS

11N20MIMO_Ant0_5745



11N20MIMO_Ant1_5745



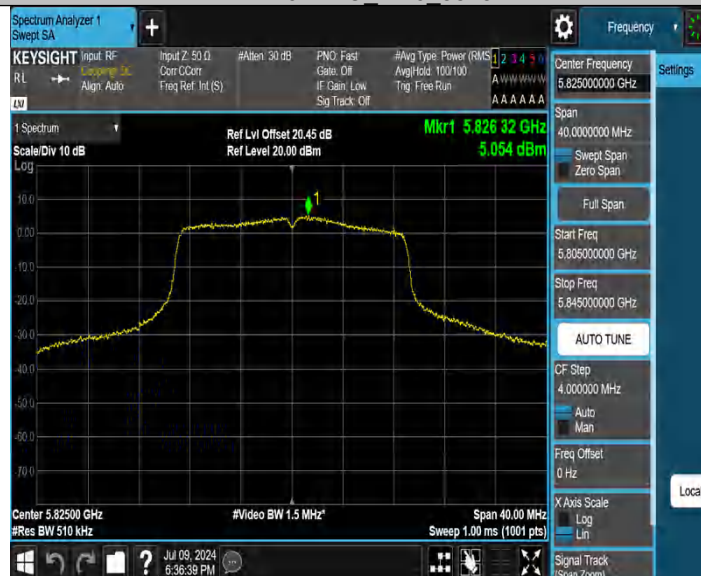
11N20MIMO_Ant0_5785



11N20MIMO_Ant1_5785



11N20MIMO_Ant0_5825



11N20MIMO_Ant1_5825



11N40MIMO_Ant0_5755



11N40MIMO_Ant1_5755



11N40MIMO_Ant0_5795



11N40MIMO_Ant1_5795



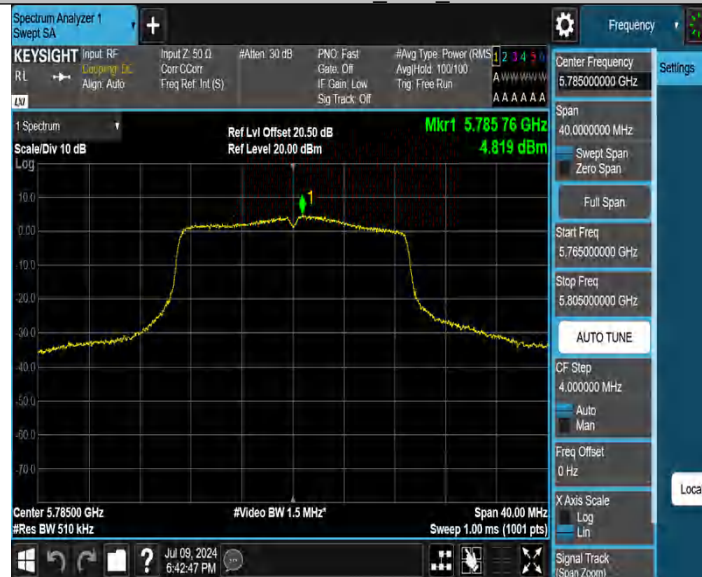
11AC20MIMO_Ant0_5745



11AC20MIMO_Ant1_5745



11AC20MIMO_Ant0_5785



11AC20MIMO_Ant1_5785



11AC20MIMO_Ant0_5825







11AC80MIMO_Ant1_5775



11AX20MIMO_Ant0_5745



11AX20MIMO_Ant1_5745



11AX20MIMO_Ant0_5785



11AX20MIMO_Ant1_5785



11AX20MIMO_Ant0_5825



11AX20MIMO_Ant1_5825



11AX40MIMO_Ant0_5755



11AX40MIMO_Ant1_5755



11AX40MIMO_Ant0_5795



11AX40MIMO_Ant1_5795



11AX80MIMO_Ant0_5775





Appendix B.2: Test Results of Frequency Stability

Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (SISO mode ANT1) was presented in this report.

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20SISO	Ant1	5745	NV	NT	30000.00	5.221932	20	PASS
		5785	NV	NT	45000.00	7.778738	20	PASS
		5825	NV	NT	30000.00	5.150215	20	PASS
11AX40SISO	Ant1	5755	NV	NT	-30000.00	-5.212858	20	PASS
		5795	NV	NT	30000.00	5.176877	20	PASS
11AX80SISO	Ant1	5775	NV	NT	0.00	0.000000	20	PASS

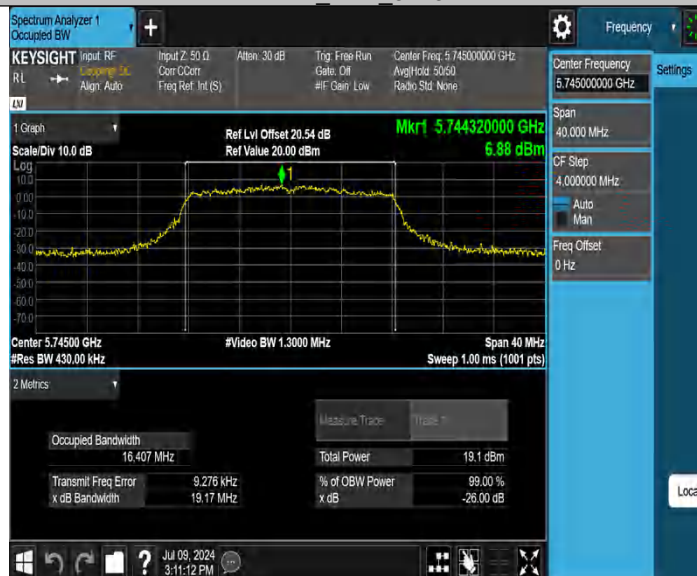
Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20SISO	Ant1	5745	NV	0	30000.00	5.221932	20	PASS
			NV	40	30000.00	5.221932	20	PASS
		5785	NV	0	30000.00	5.185825	20	PASS
			NV	40	30000.00	5.185825	20	PASS
		5825	NV	0	45000.00	7.725322	20	PASS
			NV	40	15000.00	2.575107	20	PASS
11AX40SISO	Ant1	5755	NV	0	0.00	0.000000	20	PASS
			NV	40	30000.00	5.212858	20	PASS
		5795	NV	0	30000.00	5.176877	20	PASS
			NV	40	30000.00	5.176877	20	PASS
11AX80SISO	Ant1	5775	NV	0	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS

Appendix B.3: Test Results of 99% Bandwidth

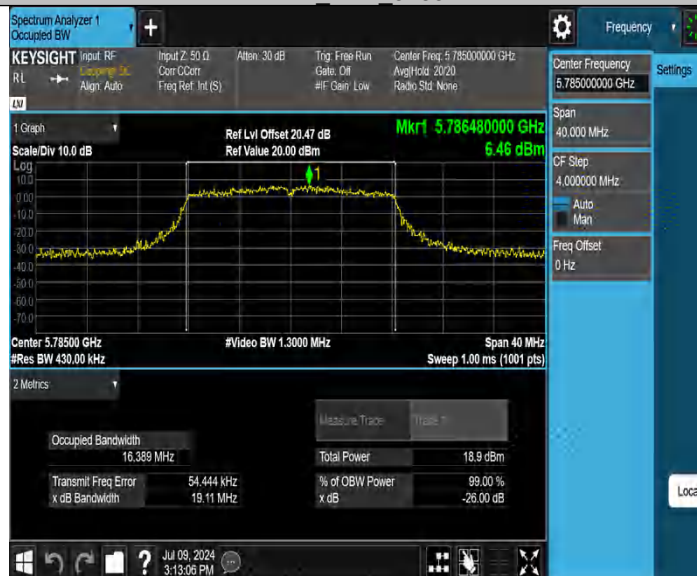
Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (SISO mode ANT1) was presented in this report.

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.407	5736.8058	5753.2128	---	PASS
		5785	16.389	5776.8599	5793.2489	---	PASS
		5825	16.423	5816.8403	5833.2633	---	PASS
11N20SISO	Ant1	5745	17.592	5736.2262	5753.8182	---	PASS
		5785	17.588	5776.2374	5793.8254	---	PASS
		5825	17.656	5816.2108	5833.8668	---	PASS
11N40SISO	Ant1	5755	35.997	5737.0445	5773.0415	---	PASS
		5795	36.025	5777.0520	5813.0770	---	PASS
11AC20SISO	Ant1	5745	17.642	5736.2130	5753.8550	---	PASS
		5785	17.608	5776.2348	5793.8428	---	PASS
		5825	17.607	5816.2449	5833.8519	---	PASS
11AC40SISO	Ant1	5755	36.054	5737.0421	5773.0961	---	PASS
		5795	36.014	5777.0546	5813.0686	---	PASS
11AC80SISO	Ant1	5775	75.372	5737.5334	5812.9054	---	PASS
11AX20SISO	Ant1	5745	18.855	5735.6209	5754.4759	---	PASS
		5785	18.951	5775.5544	5794.5054	---	PASS
		5825	18.919	5815.5652	5834.4842	---	PASS
11AX40SISO	Ant1	5755	37.853	5736.0369	5773.8899	---	PASS
		5795	37.576	5776.2563	5813.8323	---	PASS
11AX80SISO	Ant1	5775	76.964	5736.6988	5813.6628	---	PASS

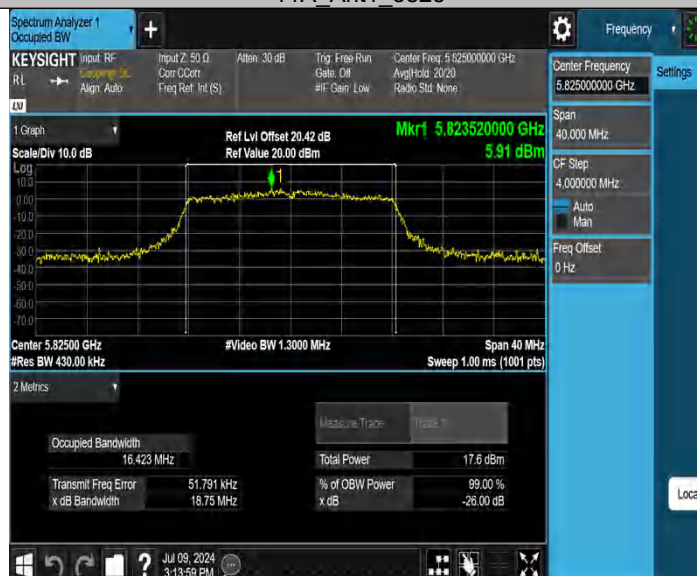
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



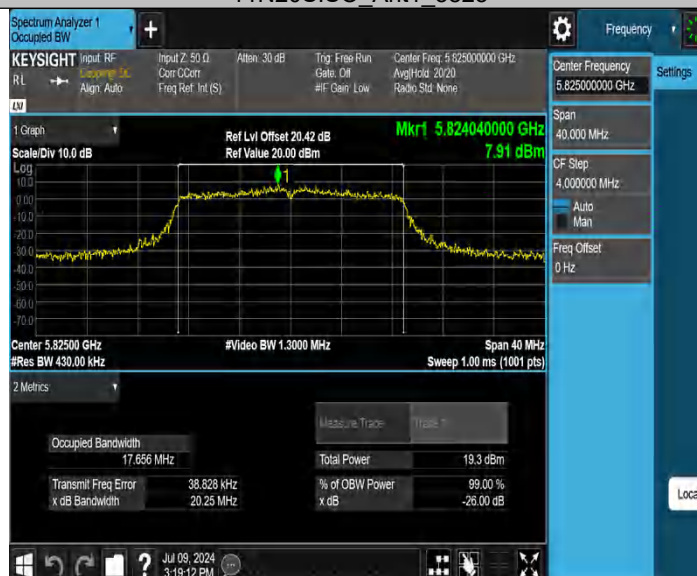
11N20SISO Ant1 5745



11N20SISO Ant1 5785



11N20SISO Ant1 5825



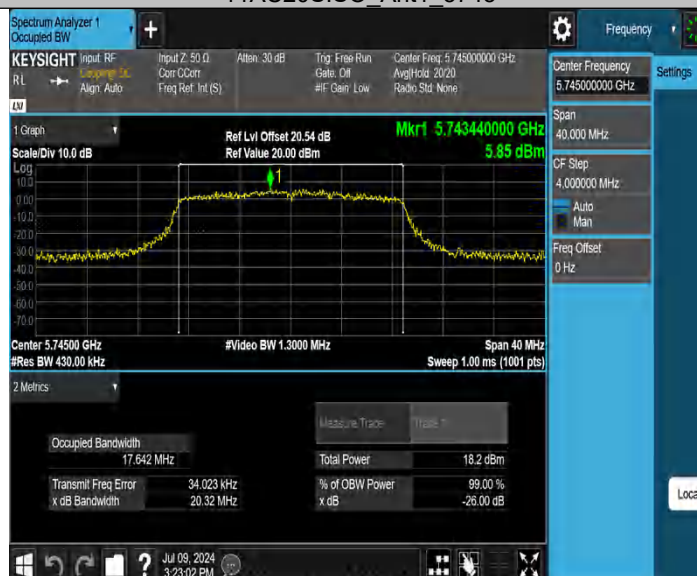
11N40SISO_Ant1_5755

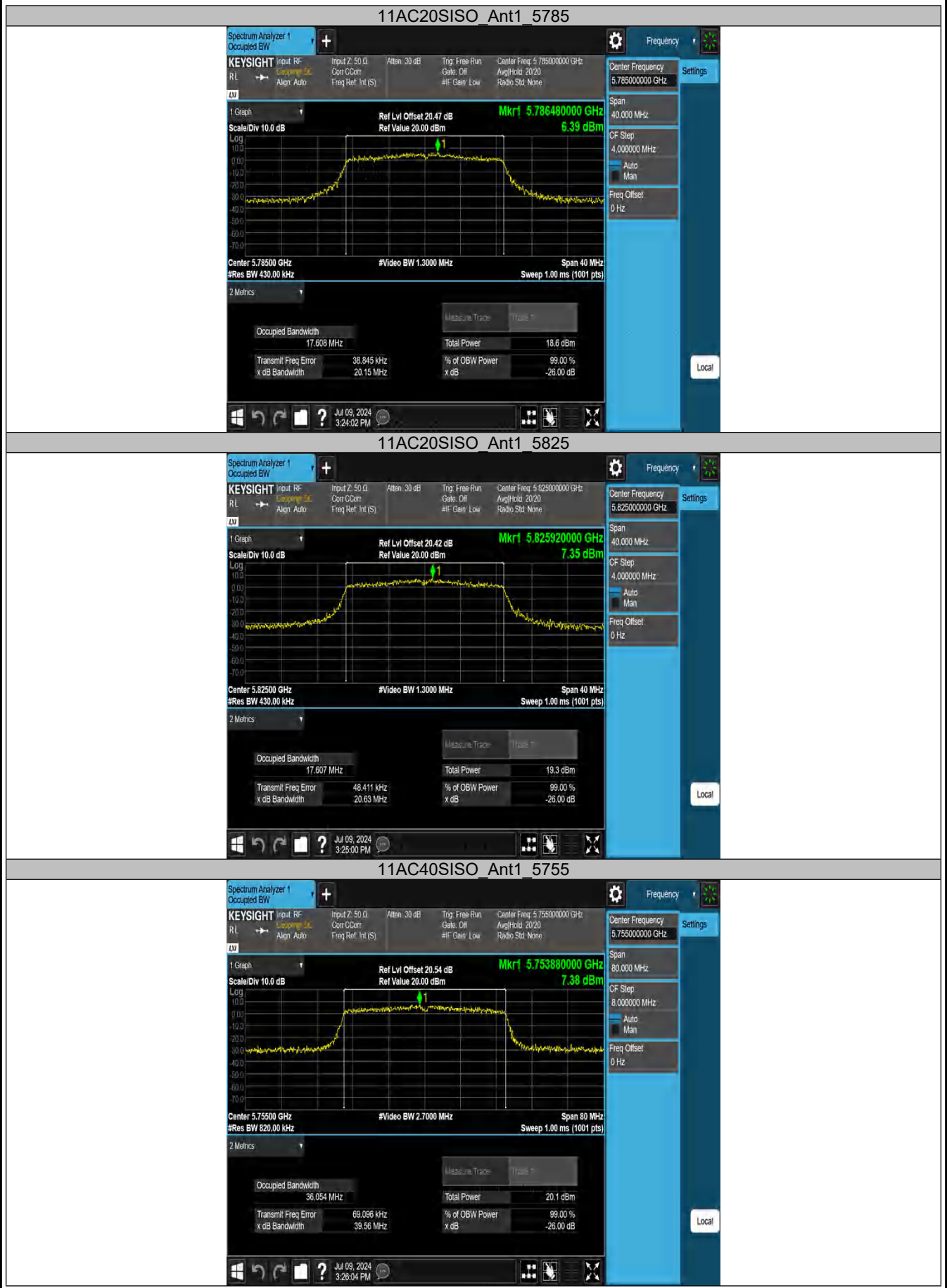


11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745





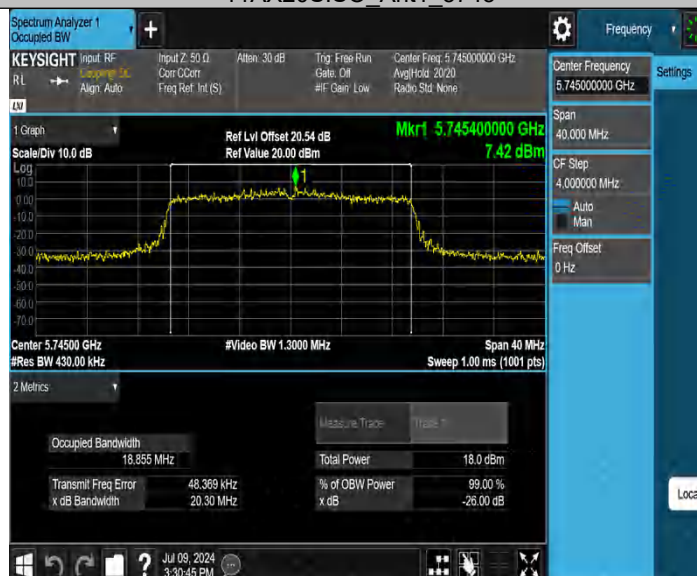
11AC40SISO_Ant1_5795



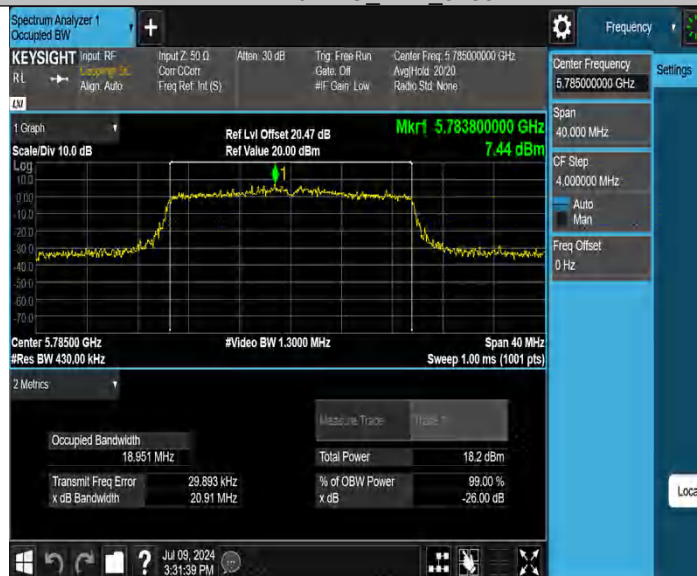
11AC80SISO_Ant1_5775



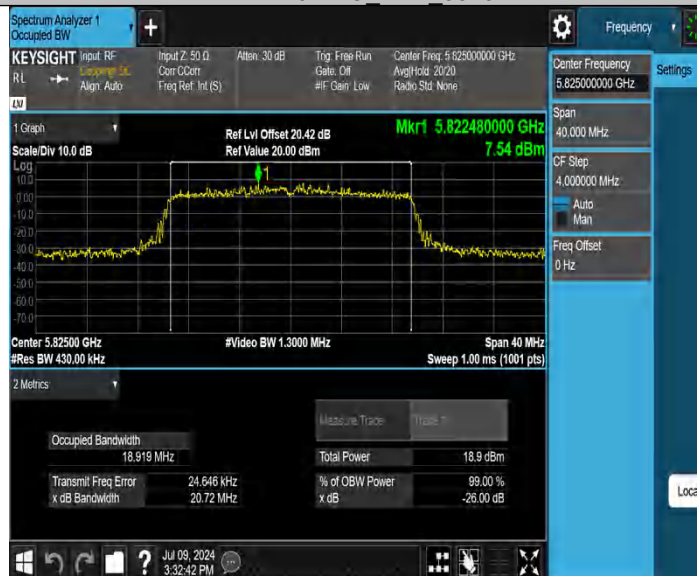
11AX20SISO_Ant1_5745



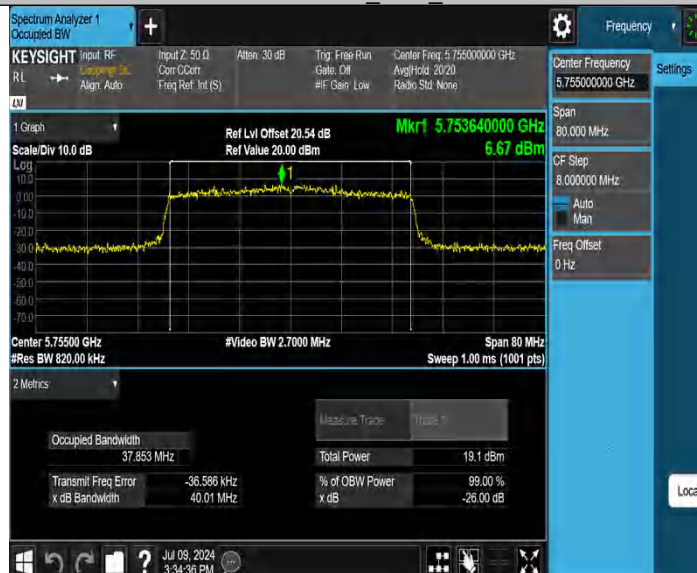
11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



11AX80SISO_Ant1_5775



Appendix B.4: Test Results of 6dB Bandwidth

Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (SISO mode ANT1) was presented in this report.

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.000	5736.920	5752.920	0.5	PASS
		5785	16.080	5776.880	5792.960	0.5	PASS
		5825	15.480	5817.480	5832.960	0.5	PASS
11N20SISO	Ant1	5745	17.360	5736.240	5753.600	0.5	PASS
		5785	17.560	5776.240	5793.800	0.5	PASS
		5825	17.560	5816.280	5833.840	0.5	PASS
11N40SISO	Ant1	5755	36.240	5736.920	5773.160	0.5	PASS
		5795	36.240	5776.920	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	17.560	5736.240	5753.800	0.5	PASS
		5785	17.520	5776.280	5793.800	0.5	PASS
		5825	16.800	5816.640	5833.440	0.5	PASS
11AC40SISO	Ant1	5755	35.600	5737.240	5772.840	0.5	PASS
		5795	32.800	5779.160	5811.960	0.5	PASS
11AC80SISO	Ant1	5775	71.680	5741.080	5812.760	0.5	PASS
11AX20SISO	Ant1	5745	18.200	5736.200	5754.400	0.5	PASS
		5785	18.920	5775.600	5794.520	0.5	PASS
		5825	18.400	5815.920	5834.320	0.5	PASS
11AX40SISO	Ant1	5755	36.800	5737.240	5774.040	0.5	PASS
		5795	37.280	5776.200	5813.480	0.5	PASS
11AX80SISO	Ant1	5775	75.840	5737.080	5812.920	0.5	PASS

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO Ant1 5745



11N20SISO Ant1 5785



11N20SISO Ant1 5825



11N40SISO_Ant1_5755

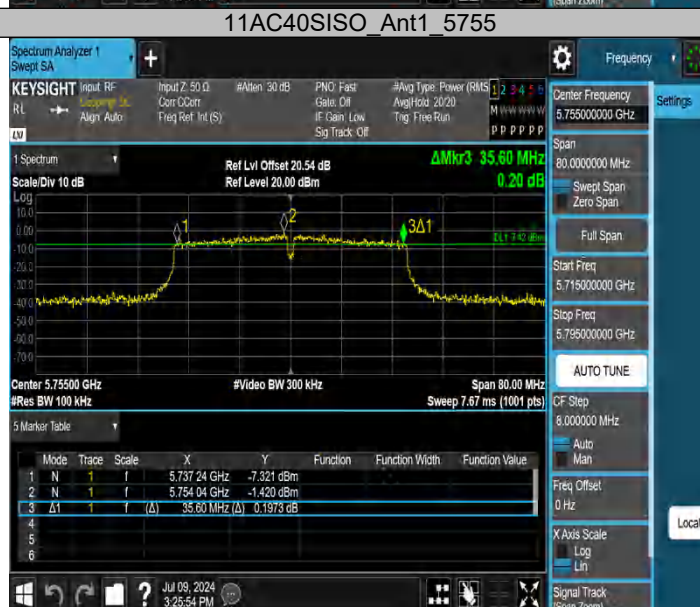


11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745





11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



11AX20SISO_Ant1_5745



11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



11AX80SISO_Ant1_5775



Appendix B.5: Test Results of Radiated Spurious Emissions

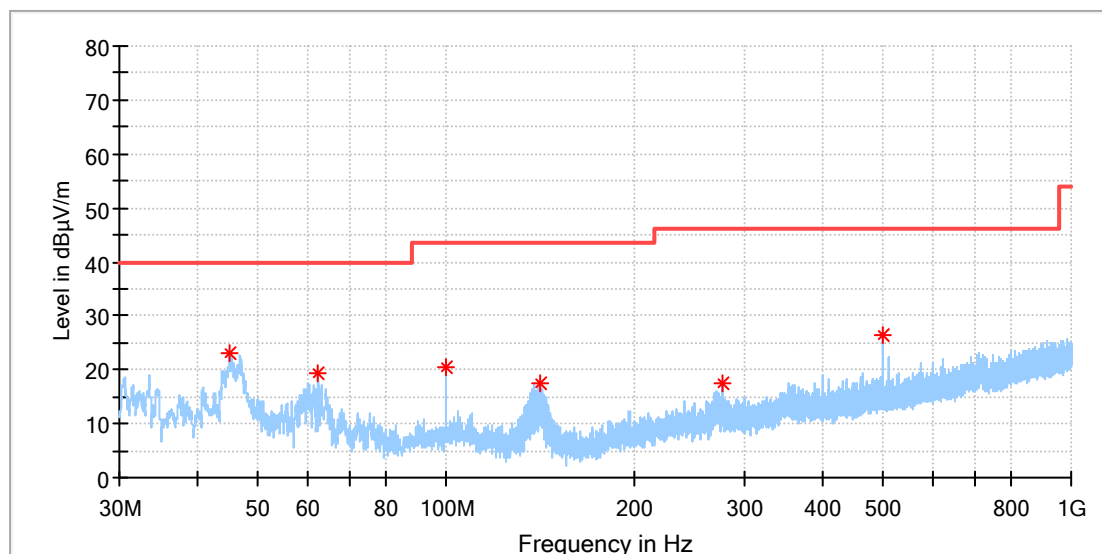
Note:

- 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.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch157
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

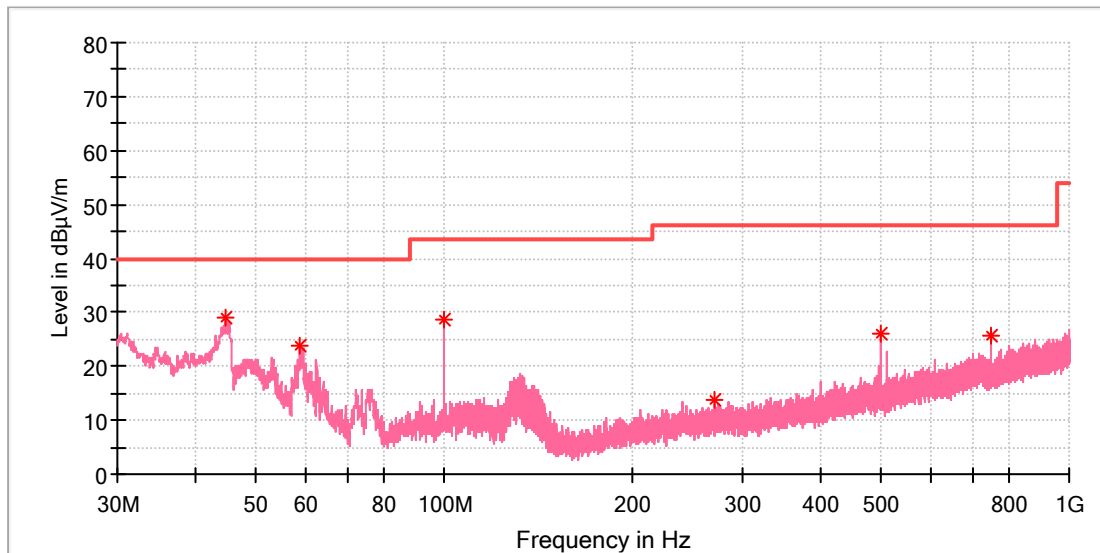
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.035000	23.21	40.00	16.79	100.0	H	248.0	-19.2
62.495000	19.31	40.00	20.69	100.0	H	338.0	-19.9
99.989231	20.54	43.50	22.96	100.0	H	278.0	-19.3
141.176923	17.31	43.50	26.19	100.0	H	195.0	-22.6
276.566539	17.43	46.00	28.57	100.0	H	308.0	-17.1
500.002308	26.31	46.00	19.69	100.0	H	127.0	-12.2

Final_Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch157
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
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)
44.736539	29.10	40.00	10.90	100.0	V	105.0	-19.2
58.764231	23.90	40.00	16.10	100.0	V	128.0	-19.2
99.989231	28.49	43.50	15.01	100.0	V	286.0	-19.3
271.679231	13.64	46.00	32.36	100.0	V	35.0	-17.2
500.002308	25.96	46.00	20.04	100.0	V	241.0	-12.2
750.038462	25.62	46.00	20.38	100.0	V	286.0	-7.6

Final Result

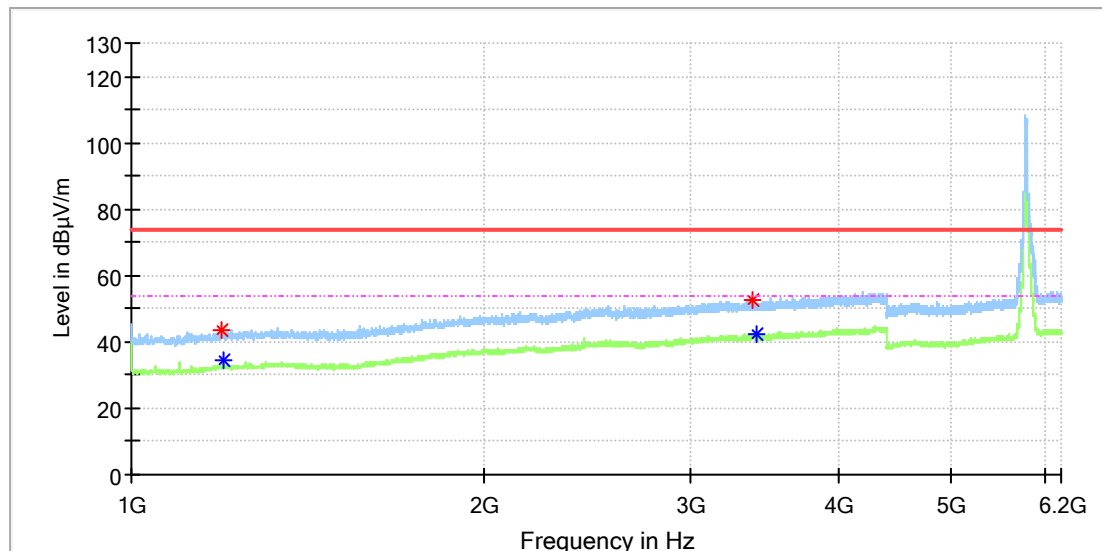
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is 5GHz Wi-Fi Fundamental.

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch157
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

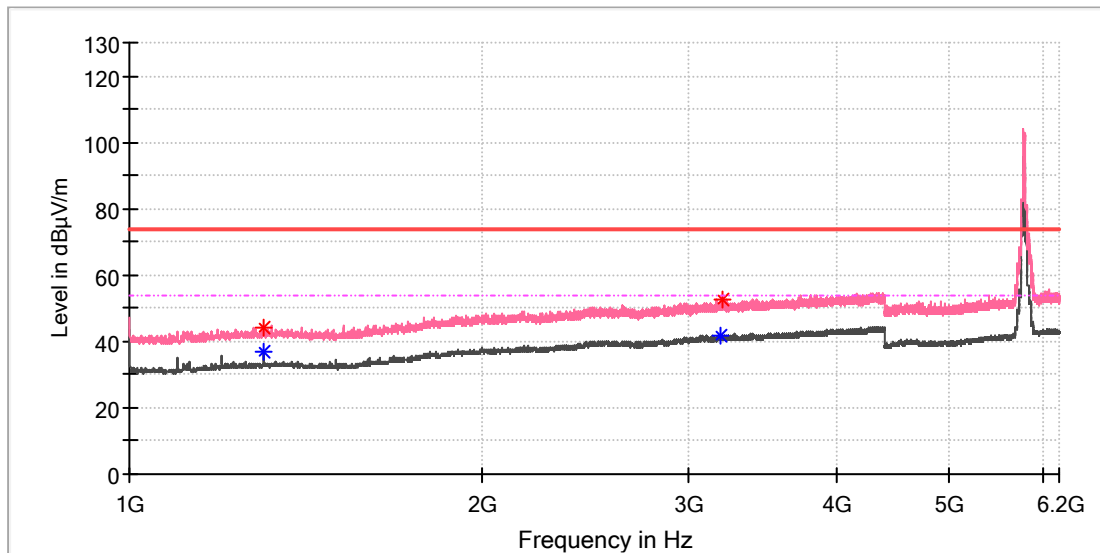
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1191.500000	43.28	---	74.00	30.72	150.0	H	9.0	1.1
1200.000000	---	34.33	54.00	19.67	150.0	H	44.0	1.1
3377.500000	52.72	---	74.00	21.28	150.0	H	101.0	8.6
3406.500000	---	42.55	54.00	11.45	150.0	H	51.0	8.7

Final_Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch157
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

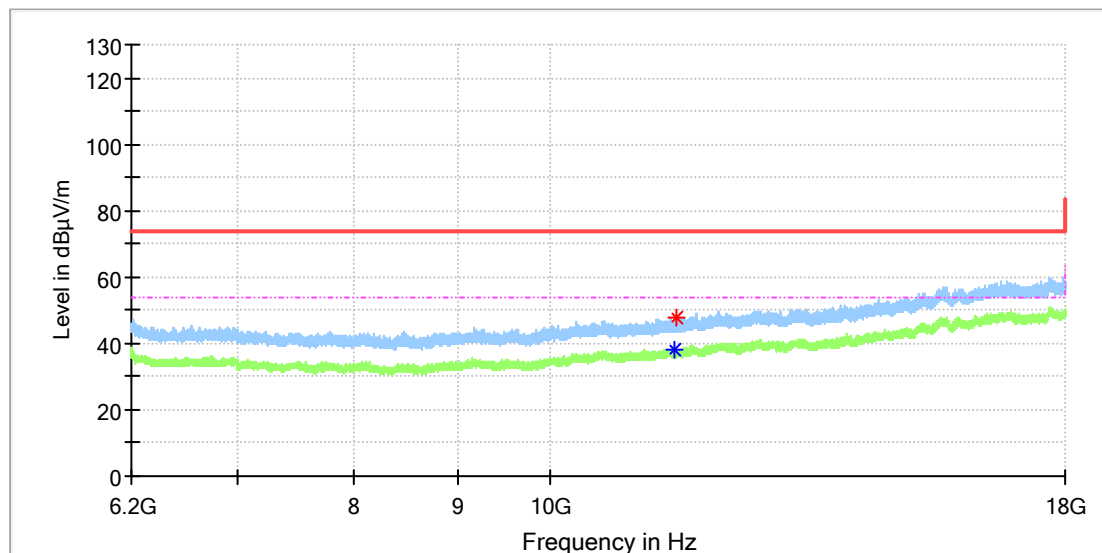
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1300.000000	44.29	---	74.00	29.71	150.0	V	69.0	1.9
1300.000000	---	37.15	54.00	16.85	150.0	V	69.0	1.9
3195.500000	---	41.71	54.00	12.29	150.0	V	269.0	8.6
3198.000000	52.49	---	74.00	21.51	150.0	V	113.0	8.6

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch157
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

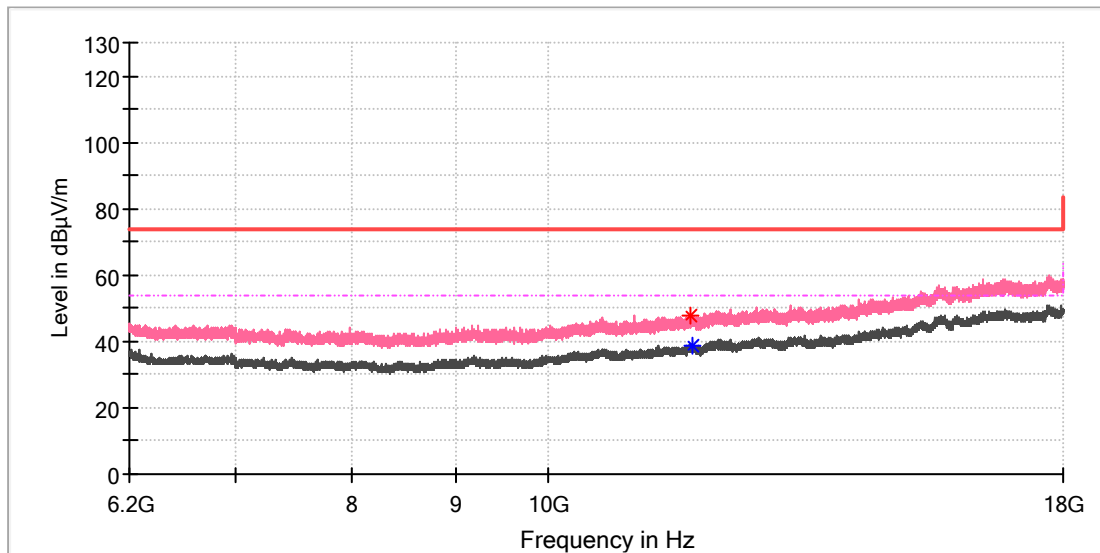
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11526.225000	---	38.10	54.00	15.90	150.0	H	20.0	13.6
11546.875000	47.70	---	74.00	26.30	150.0	H	299.0	13.5

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch157
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

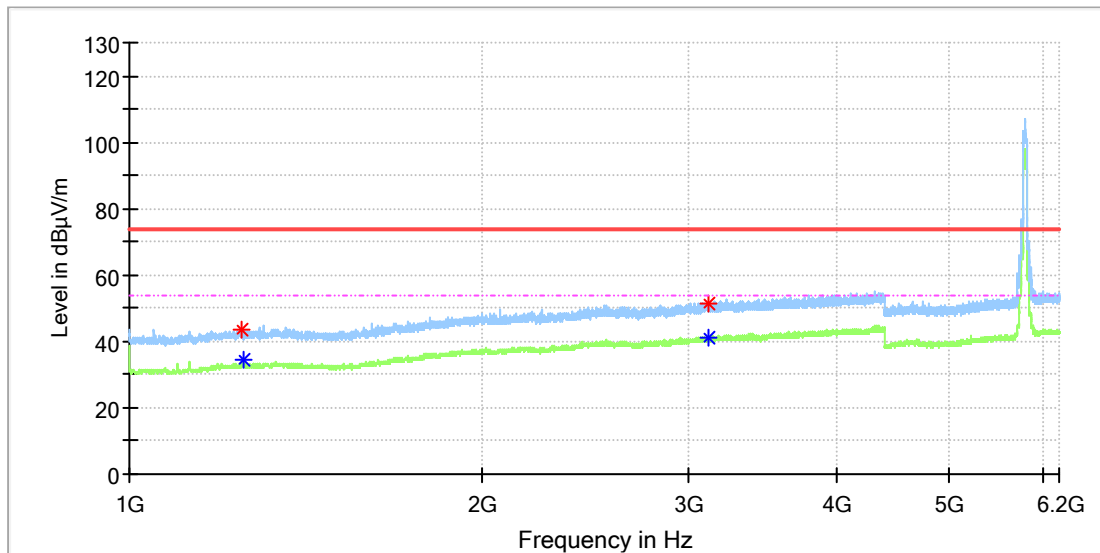
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11767.633333	47.58	---	74.00	26.42	150.0	V	248.0	13.4
11801.558333	---	38.93	54.00	15.07	150.0	V	213.0	13.4

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac40_Ch159
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

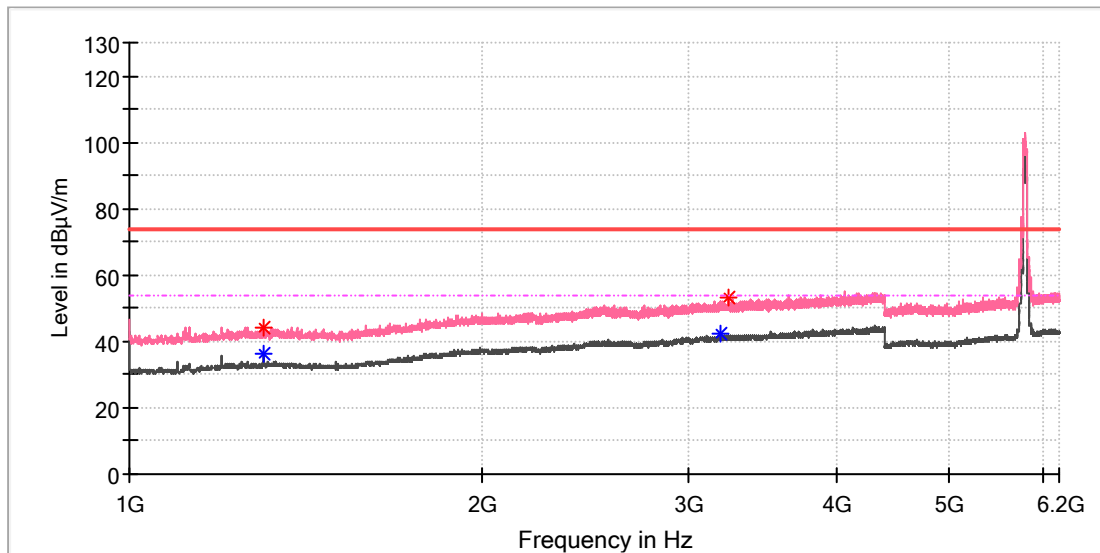
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1247.500000	43.67	---	74.00	30.33	150.0	H	310.0	1.9
1250.000000	---	34.30	54.00	19.70	150.0	H	264.0	1.9
3112.000000	51.44	---	74.00	22.56	150.0	H	234.0	8.6
3115.500000	---	41.35	54.00	12.65	150.0	H	288.0	8.6

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac40_Ch159
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

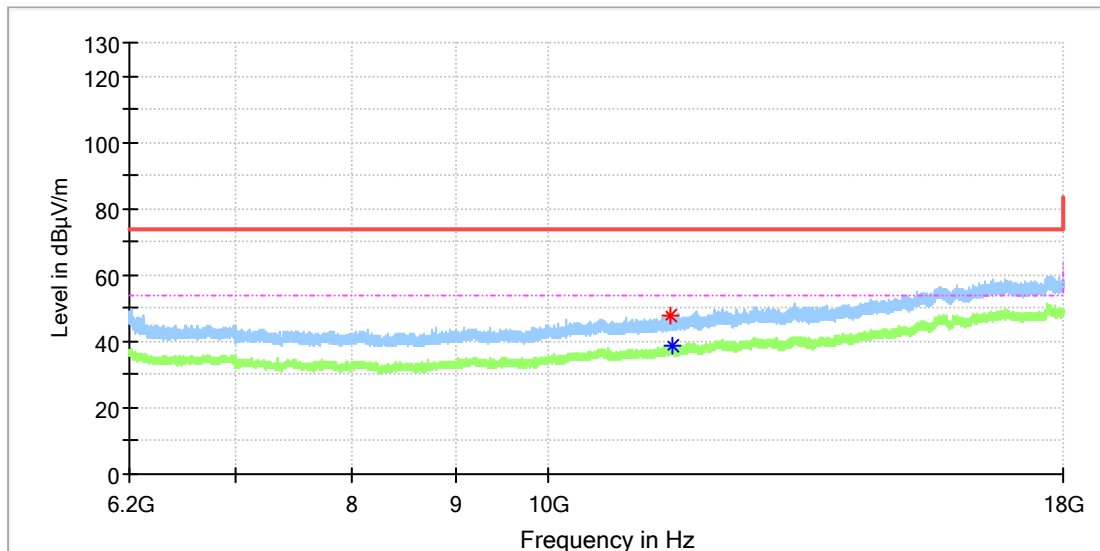
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1300.000000	44.28	---	74.00	29.72	150.0	V	251.0	1.9
1300.000000	---	36.31	54.00	17.69	150.0	V	251.0	1.9
3191.500000	---	42.28	54.00	11.72	150.0	V	275.0	8.6
3239.000000	53.13	---	74.00	20.87	150.0	V	337.0	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:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac40_Ch159
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

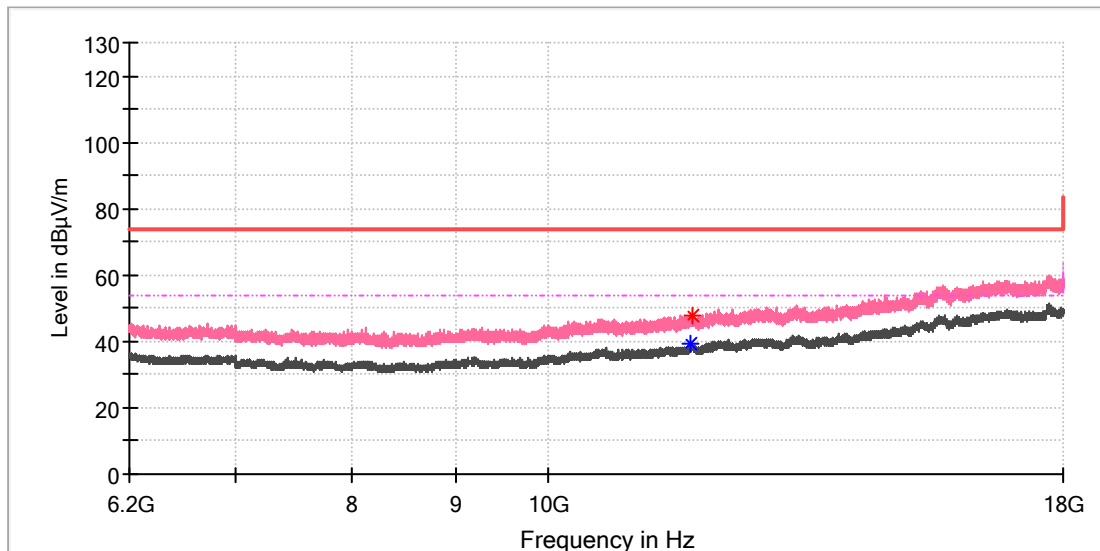
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11500.658333	48.06	---	74.00	25.94	150.0	H	122.0	13.7
11525.733333	---	38.71	54.00	15.29	150.0	H	73.0	13.6

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac40_Ch159
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

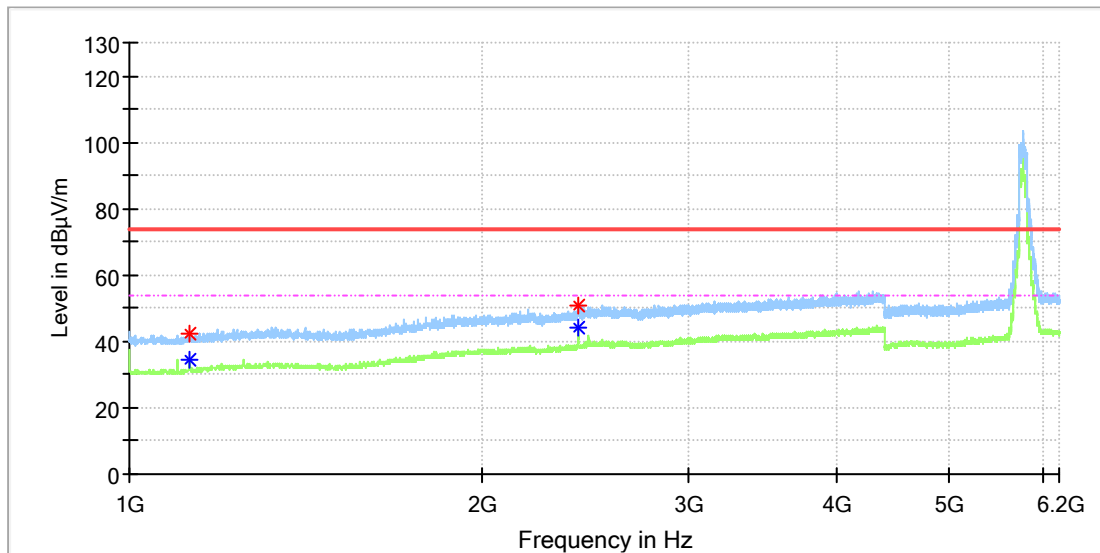
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11761.241667	---	39.10	54.00	14.90	150.0	V	90.0	13.4
11797.625000	47.84	---	74.00	26.16	150.0	V	176.0	13.4

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch155
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

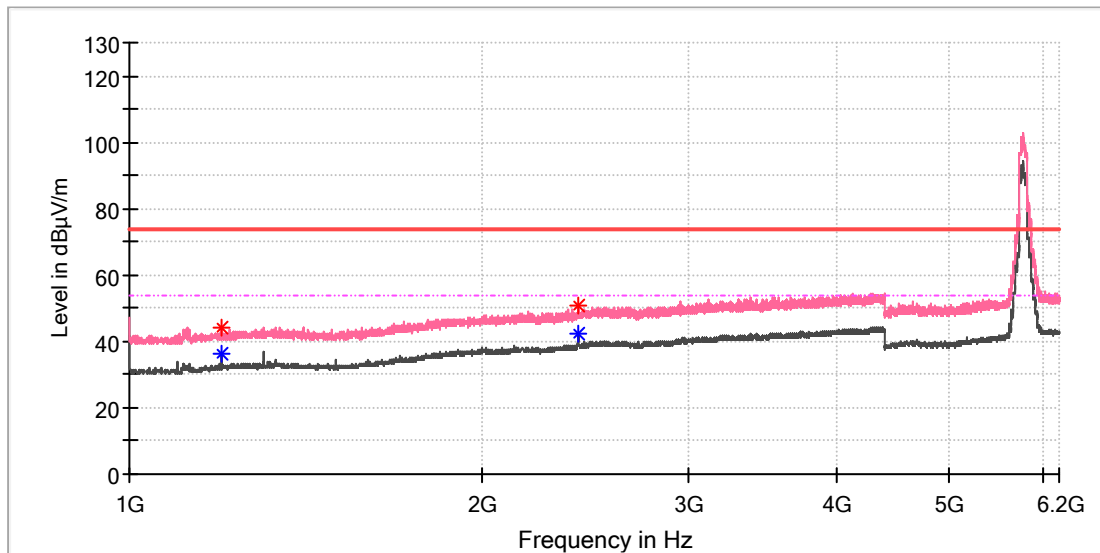
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1125.000000	42.37	---	74.00	31.63	150.0	H	5.0	0.3
1125.000000	---	34.55	54.00	19.45	150.0	H	5.0	0.3
2413.000000	50.83	---	74.00	23.17	150.0	H	5.0	7.1
2413.000000	---	43.91	54.00	10.09	150.0	H	5.0	7.1

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch155
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

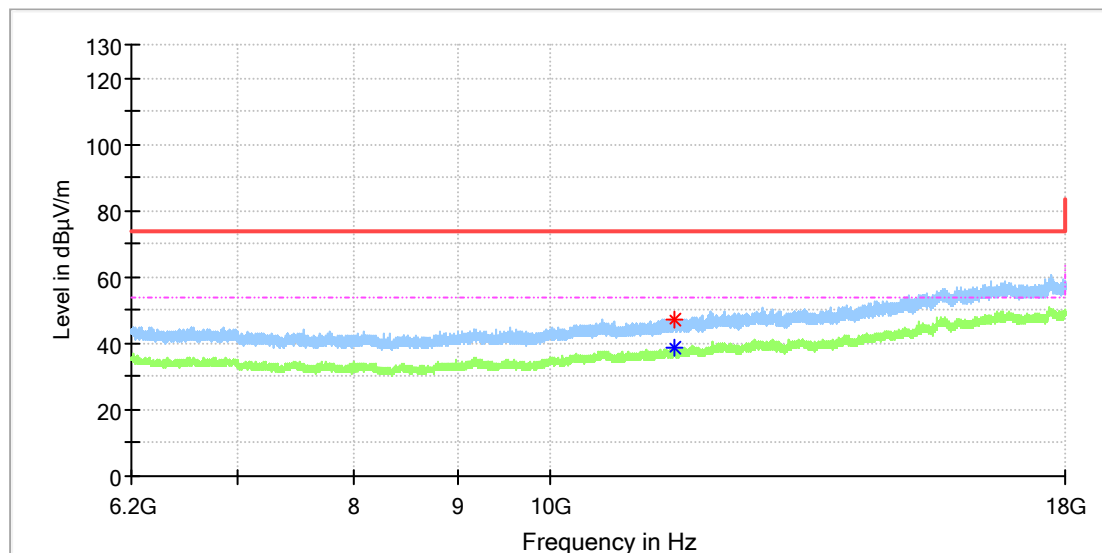
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.500000	---	36.12	54.00	17.88	150.0	V	109.0	1.1
1200.000000	44.32	---	74.00	29.68	150.0	V	164.0	1.1
2409.500000	---	42.27	54.00	11.73	150.0	V	19.0	7.1
2410.500000	50.61	---	74.00	23.39	150.0	V	92.0	7.1

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch155
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

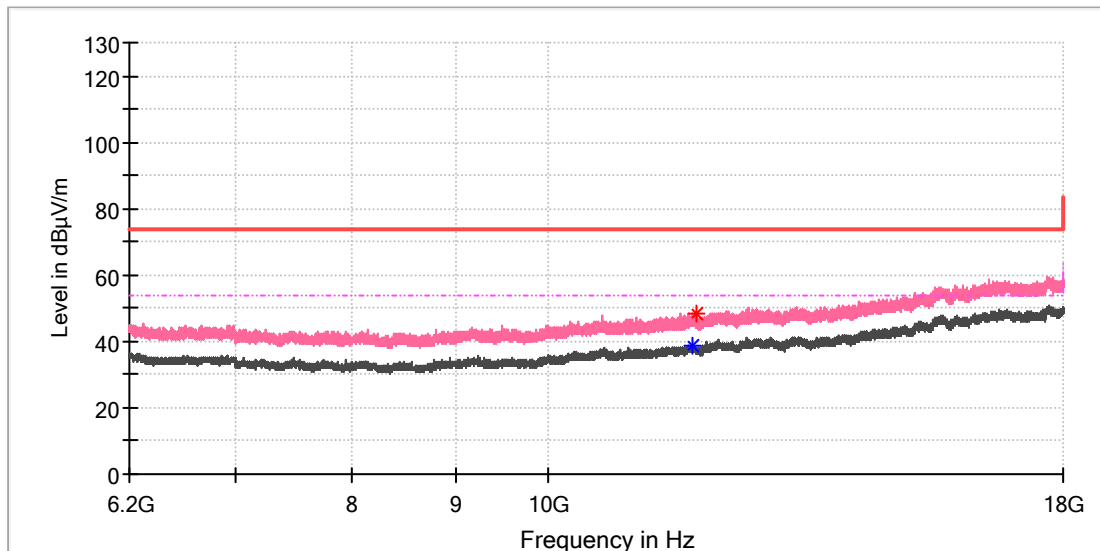
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11513.441667	---	38.71	54.00	15.29	150.0	H	51.0	13.6
11534.583333	47.40	---	74.00	26.60	150.0	H	63.0	13.6

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch155
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

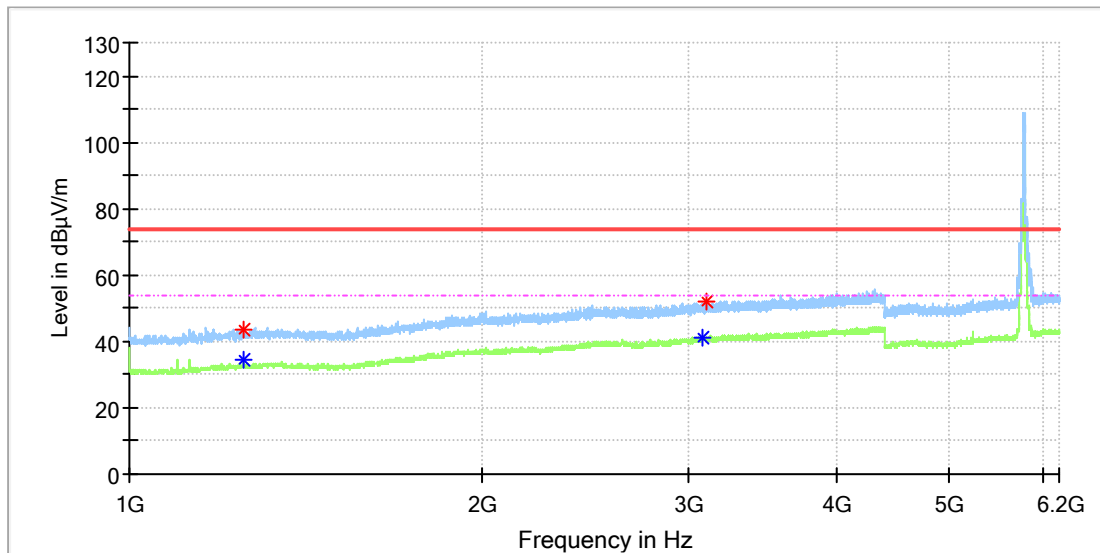
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11783.858333	---	38.73	54.00	15.27	150.0	V	0.0	13.4
11830.566667	48.63	---	74.00	25.37	150.0	V	301.0	13.5

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch157
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

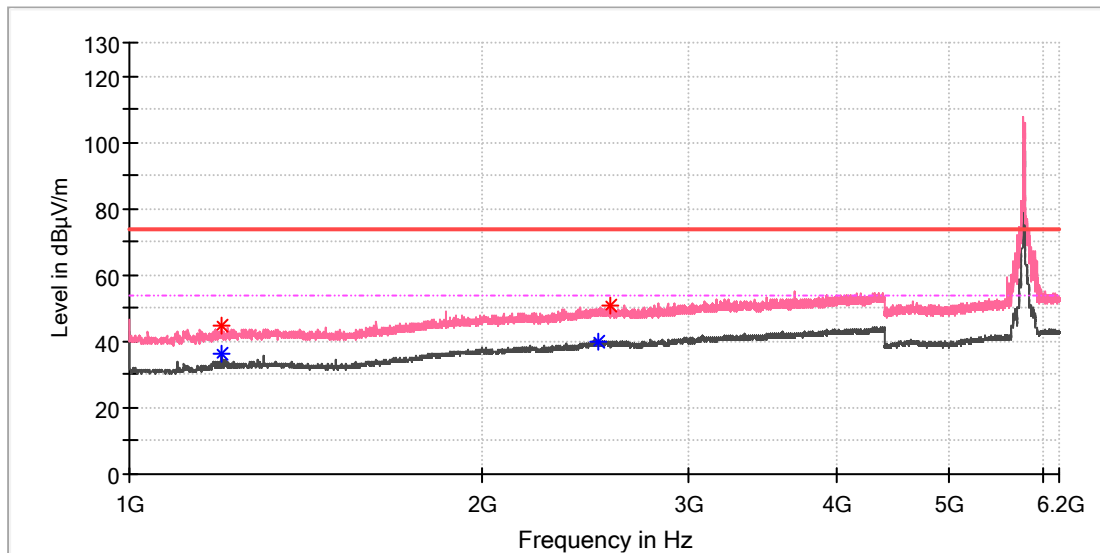
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.000000	43.78	---	74.00	30.22	150.0	H	206.0	1.9
1250.000000	---	34.59	54.00	19.41	150.0	H	248.0	1.9
3073.500000	---	41.04	54.00	12.96	150.0	H	163.0	8.6
3100.500000	52.22	---	74.00	21.78	150.0	H	262.0	8.7

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch157
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

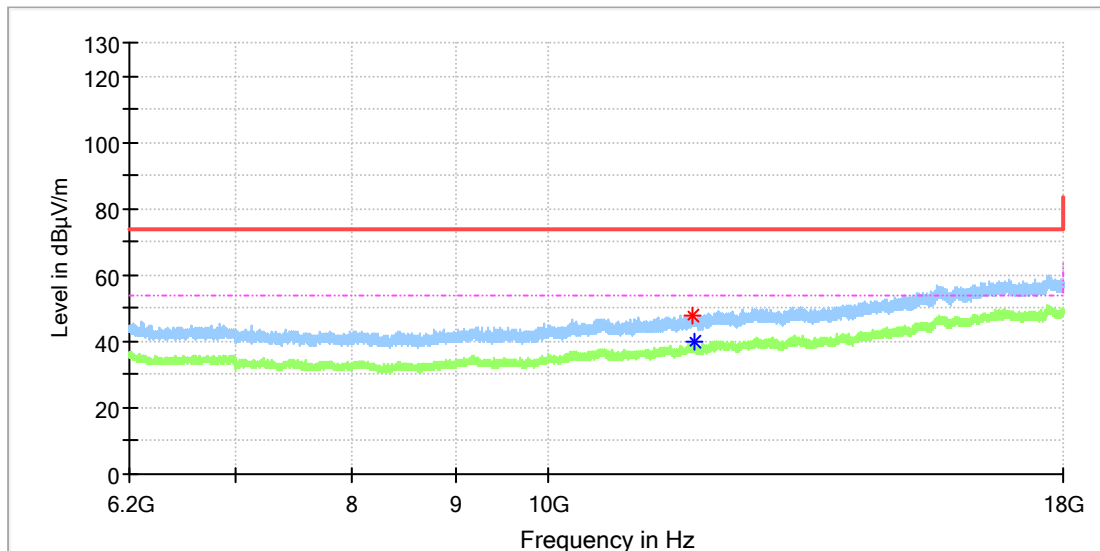
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	44.99	---	74.00	29.01	150.0	V	263.0	1.1
1200.000000	---	36.10	54.00	17.90	150.0	V	263.0	1.1
2506.000000	---	40.21	54.00	13.79	150.0	V	310.0	7.4
2570.000000	50.91	---	74.00	23.09	150.0	V	221.0	7.5

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch157
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

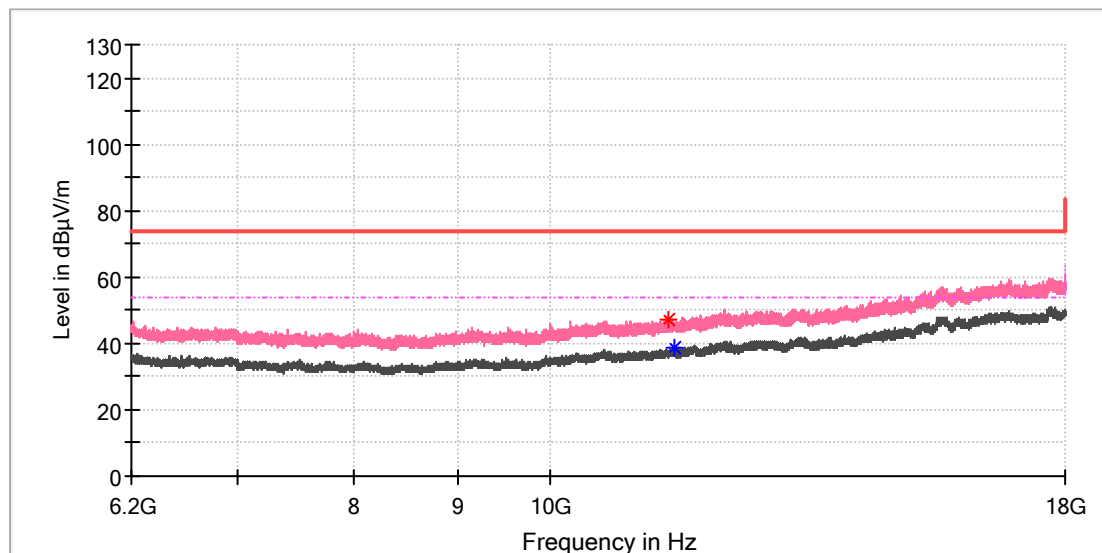
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11789.758333	47.69	---	74.00	26.31	150.0	H	54.0	13.4
11810.900000	---	39.96	54.00	14.04	150.0	H	92.0	13.5

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch157
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
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)
11449.033333	47.38	---	74.00	26.62	150.0	V	290.0	13.3
11532.616667	---	38.93	54.00	15.07	150.0	V	216.0	13.6

Final Result

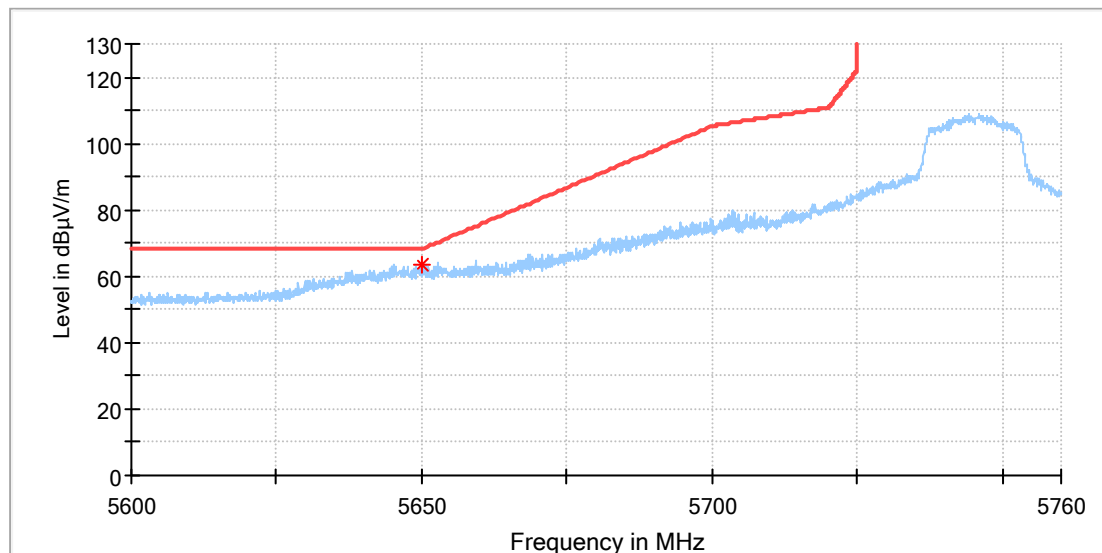
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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

Wi-Fi 802.11 a mode

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch149
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

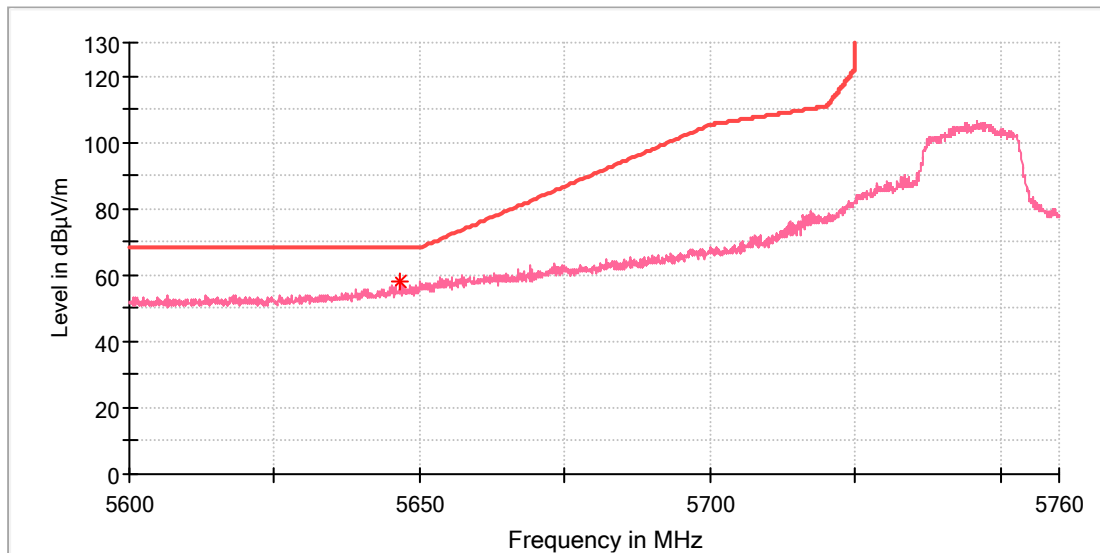
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5649.988889	63.73	68.20	4.47	150.0	H	104.0	13.8

Final_Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch149
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

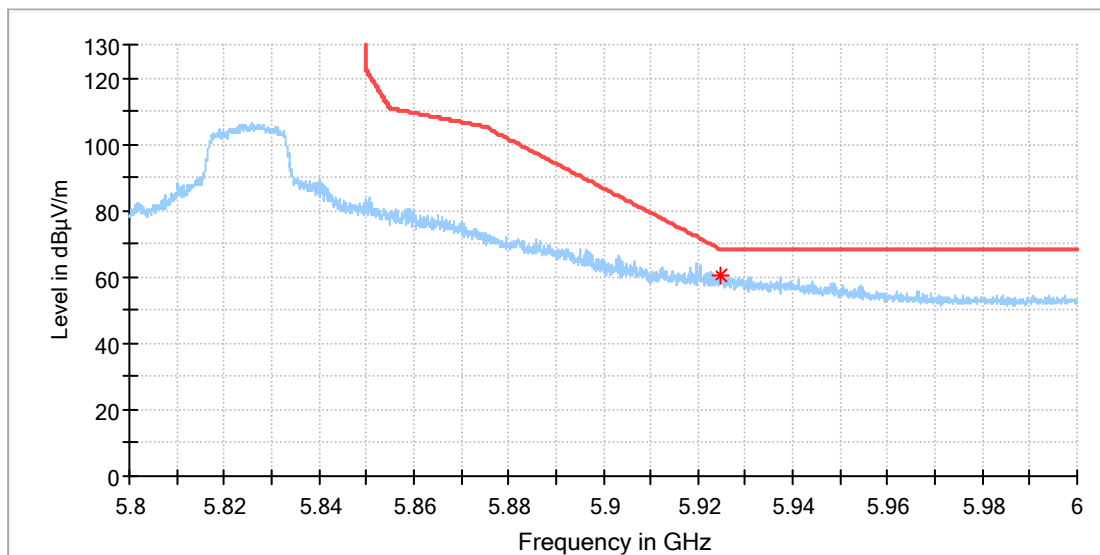
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5646.505556	57.81	68.20	10.39	150.0	V	0.0	13.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch165
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

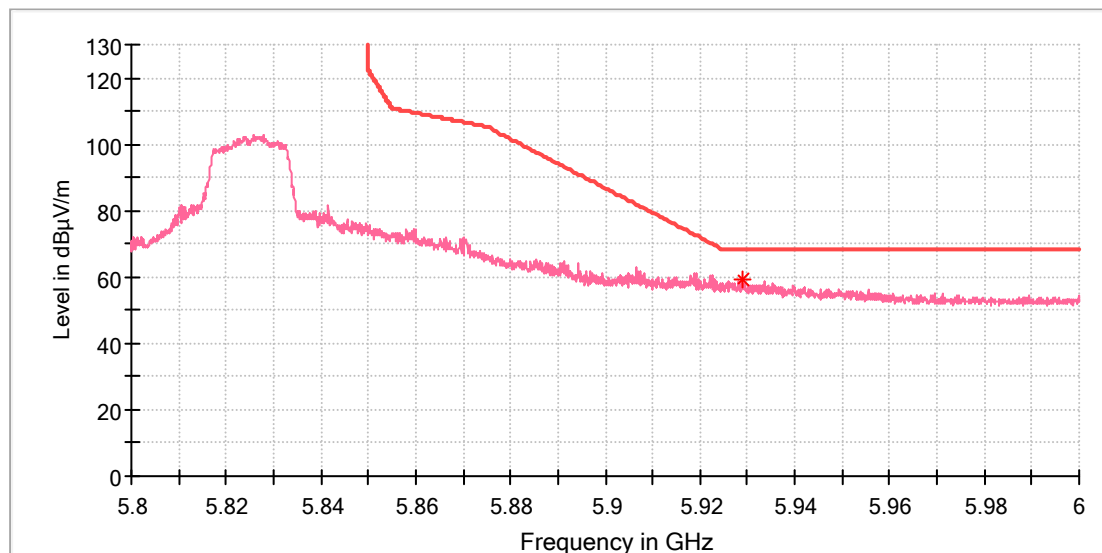
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5924.680556	60.62	68.44	7.82	150.0	H	70.0	14.6

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch165
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
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)
5928.805556	59.00	68.20	9.20	150.0	V	262.0	14.7

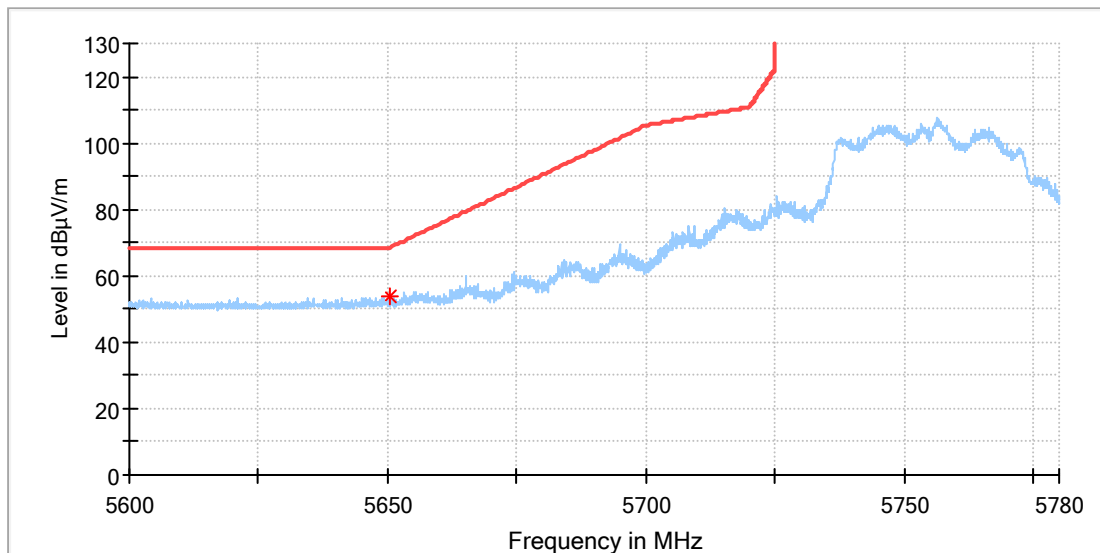
Final Result

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

Wi-Fi 802.11 ac(VHT40) mode

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac40_Ch151
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

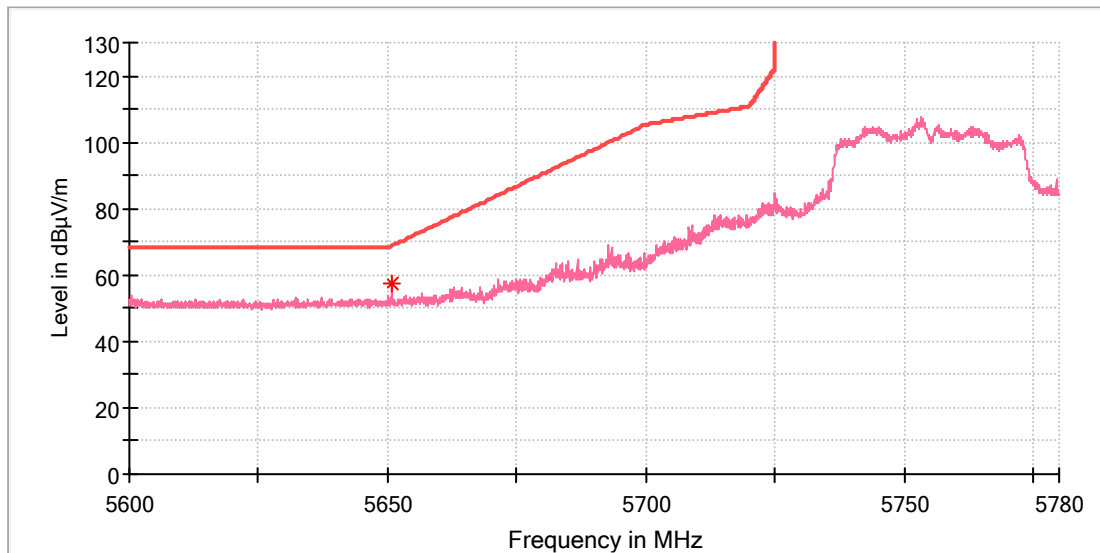
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5650.355556	54.10	68.46	14.36	150.0	H	103.0	13.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac40_Ch151
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

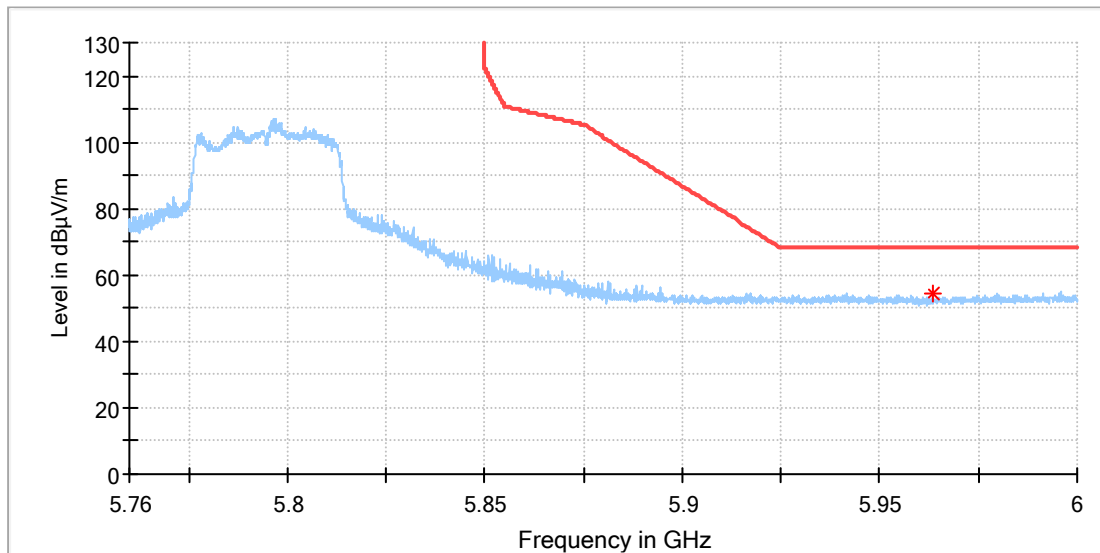
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5650.905556	57.51	68.87	11.37	150.0	V	80.0	13.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac40_Ch159
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

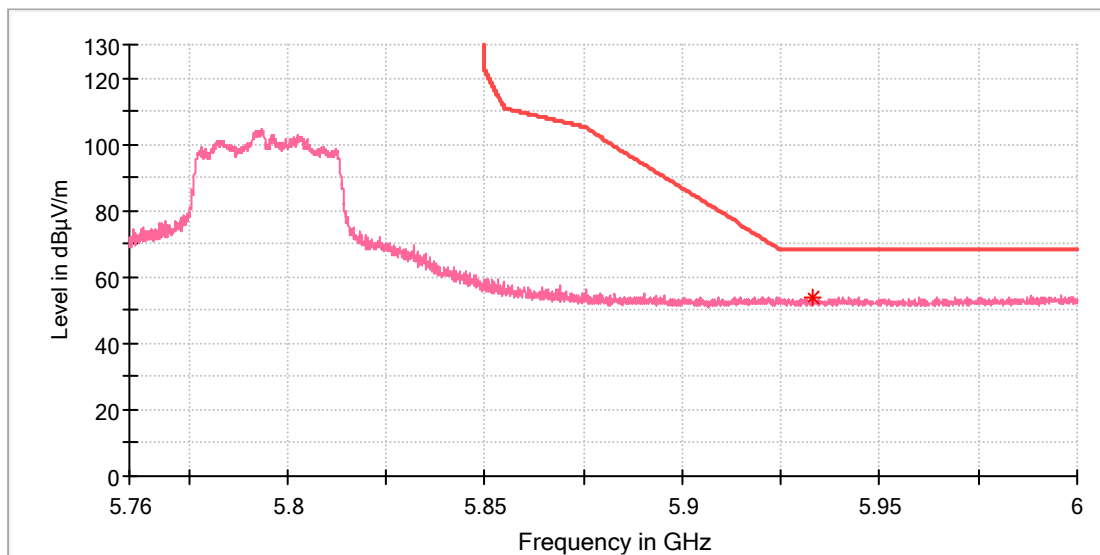
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5963.486111	54.13	68.20	14.07	150.0	H	22.0	14.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac40_Ch159
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
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)
5932.930556	53.93	68.20	14.27	150.0	V	72.0	14.7

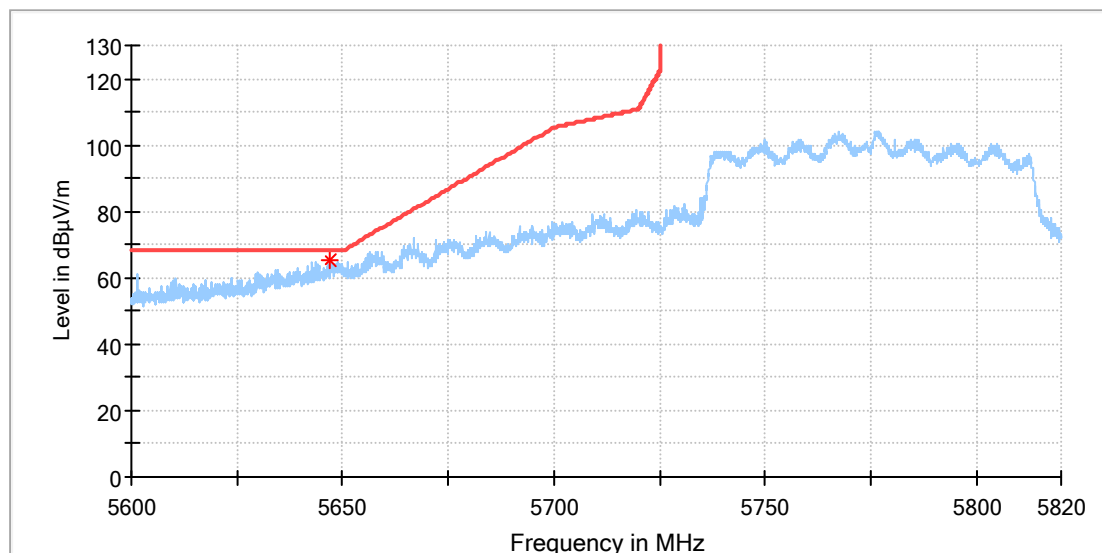
Final Result

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

Wi-Fi 802.11 ac(VHT80) mode

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch155
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

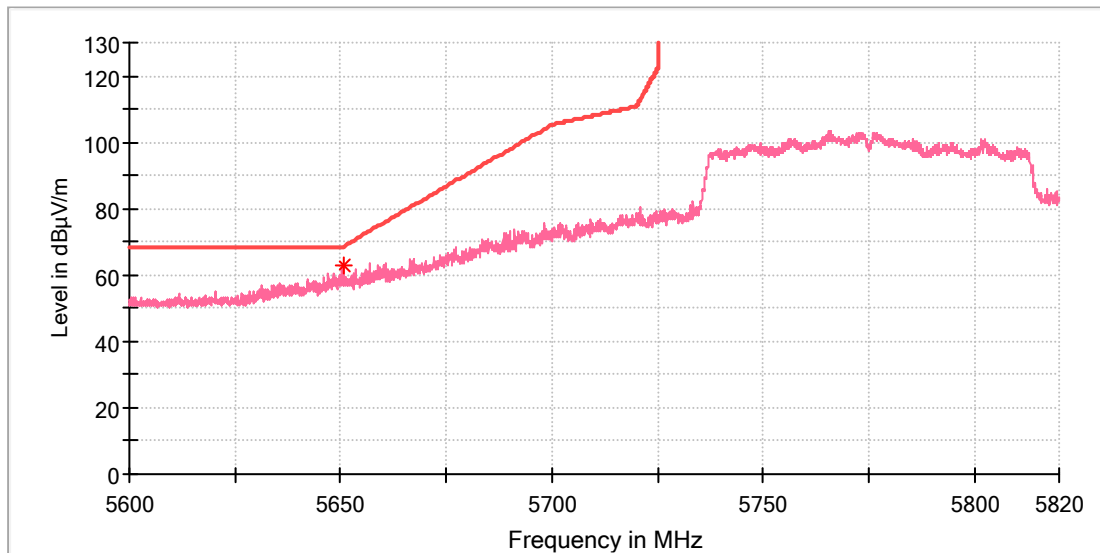
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5646.811111	65.34	68.20	2.86	150.0	H	270.0	13.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch155
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

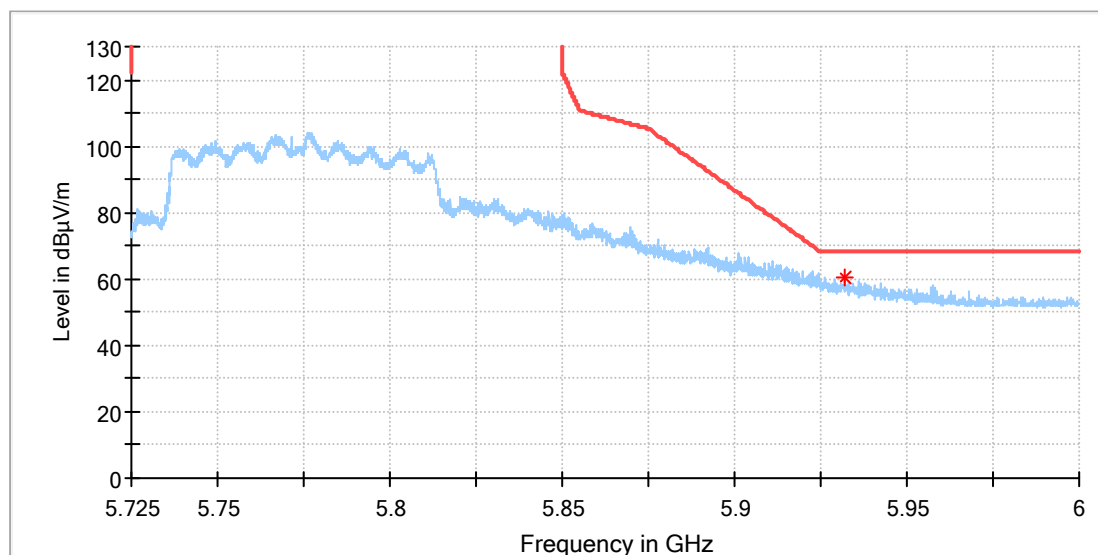
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5650.783333	62.86	68.78	5.92	150.0	V	265.0	13.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch155
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

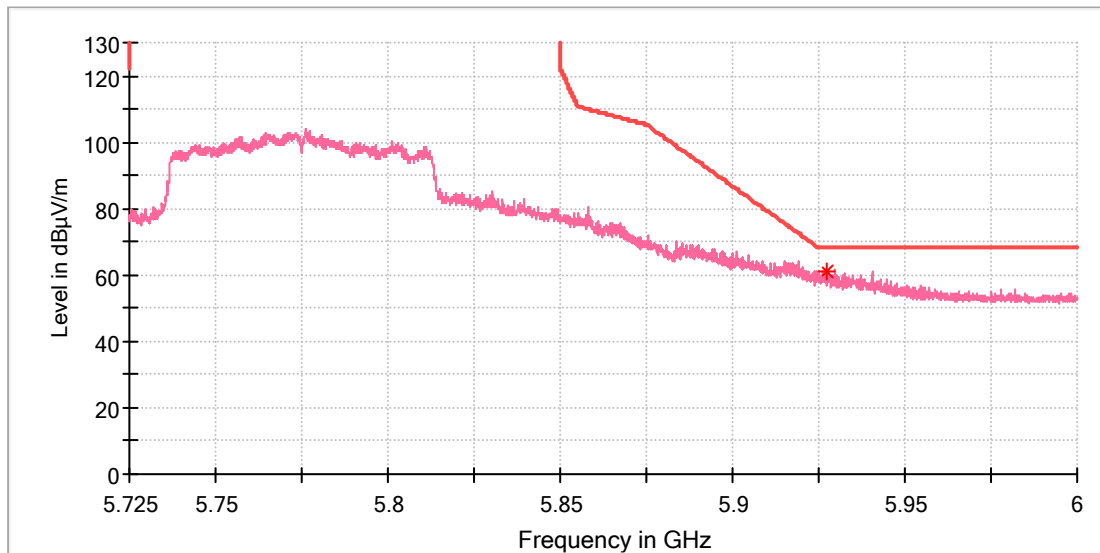
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5932.090278	60.19	68.20	8.01	150.0	H	266.0	14.7

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch155
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
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)
5927.506945	61.03	68.20	7.17	150.0	V	125.0	14.7

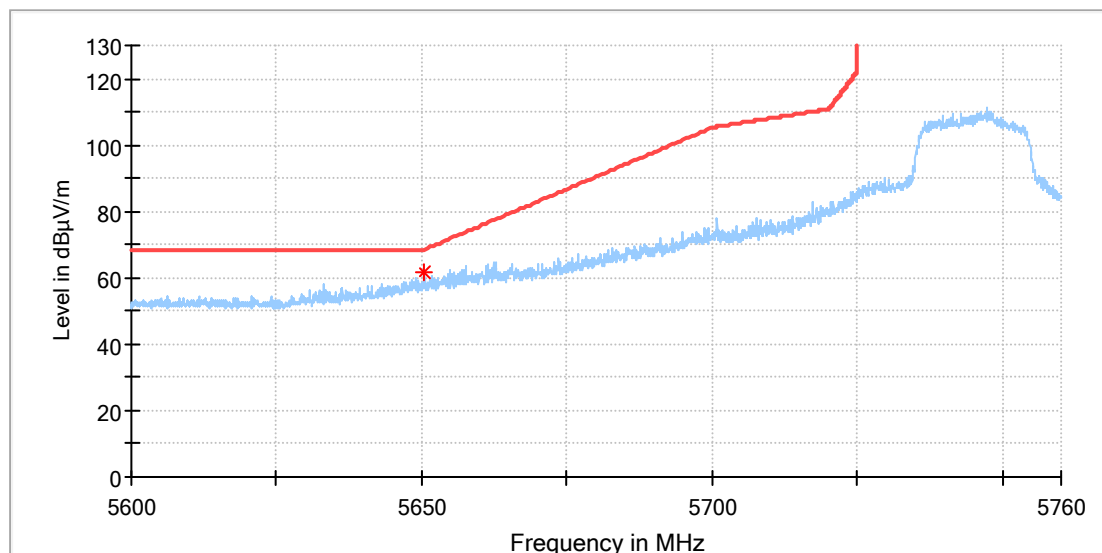
Final Result

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

Wi-Fi 802.11 ax(HE20) mode

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch149
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

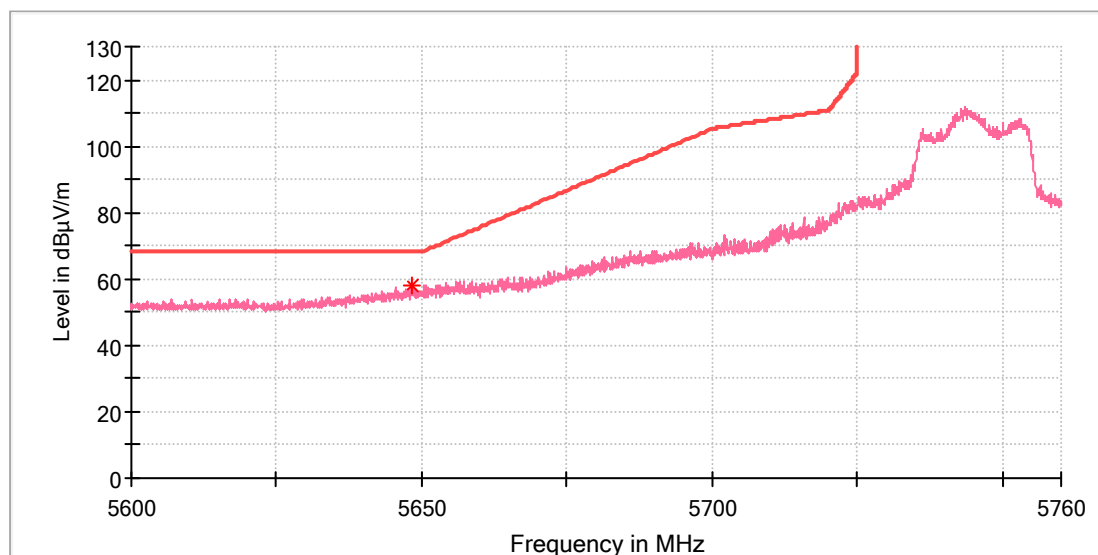
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5650.477778	61.74	68.56	6.82	150.0	H	101.0	13.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch149
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

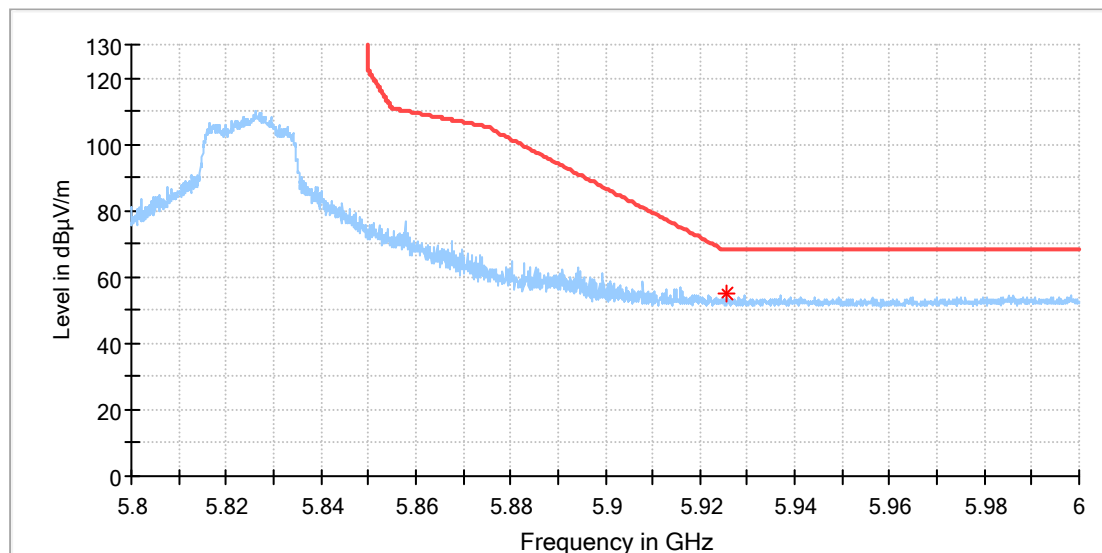
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5648.155556	58.09	68.20	10.11	150.0	V	96.0	13.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch165
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

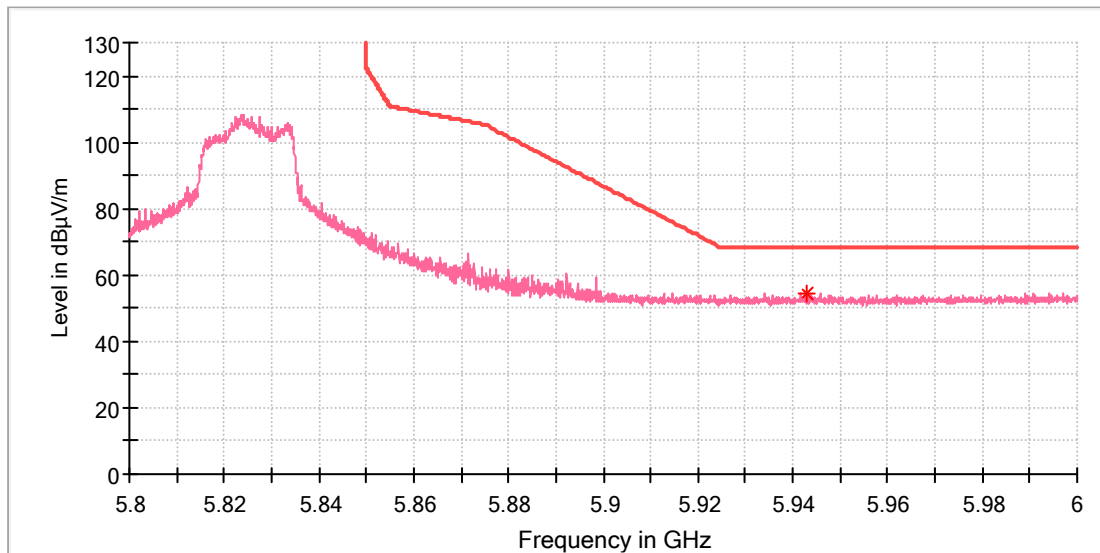
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5925.750000	54.78	68.20	13.42	150.0	H	76.0	14.7

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch165
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
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)
5942.937500	54.42	68.20	13.78	150.0	V	157.0	14.7

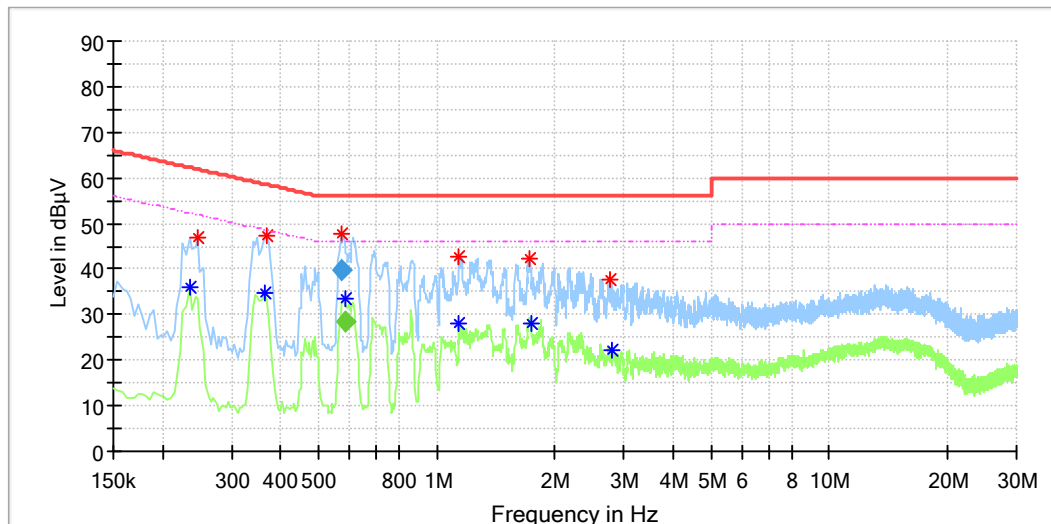
Final Result

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

Appendix B.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	Controller
Order Number:	168484699
Model:	RC520
Test Mode:	Wi-Fi connecting
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Steve Lan/ Shower Dai
Tem./Hum./Pressure:	23.4°C/51.2%/101kPa
Remark:	SR2



Critical Freqs

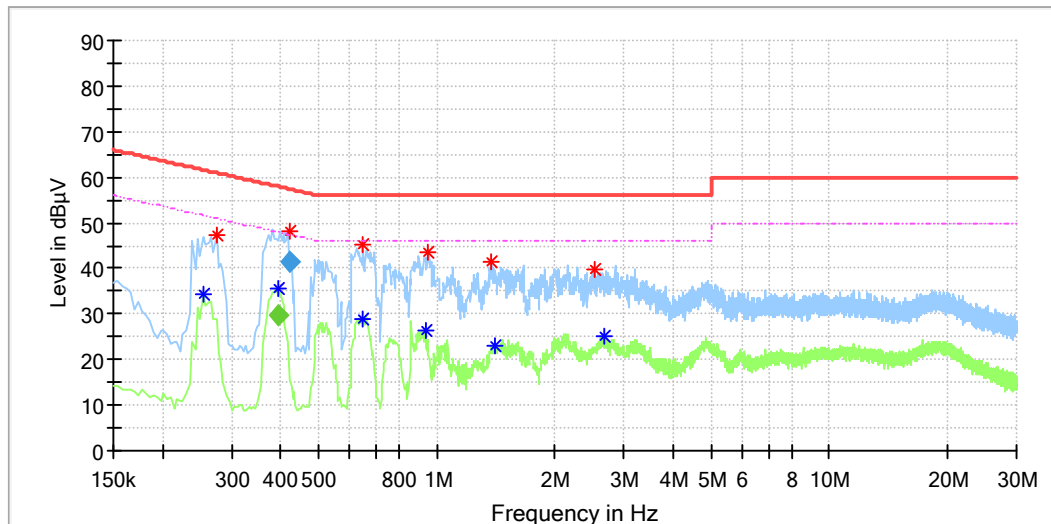
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.234000	---	36.19	52.31	16.11	L1	9.9
0.246000	46.90	---	61.89	14.99	L1	9.9
0.366000	---	34.87	48.59	13.72	L1	9.9
0.370000	47.44	---	58.50	11.06	L1	9.9
0.573500	47.72	---	56.00	8.28	L1	10.0
0.582500	---	33.29	46.00	12.71	L1	10.0
1.142000	---	28.04	46.00	17.96	L1	10.1
1.142000	42.52	---	56.00	13.48	L1	10.1
1.722000	42.30	---	56.00	13.70	L1	10.1
1.738000	---	27.91	46.00	18.09	L1	10.1
2.766000	37.79	---	56.00	18.21	L1	10.2
2.810000	---	22.21	46.00	23.79	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.573500	39.89	---	56.00	16.11	1000.0	9.000	L1	10.0
0.582500	---	28.32	46.00	17.68	1000.0	9.000	L1	10.0

EUT Information

EUT Name: Controller
Order Number: 168484699
Model: RC520
Test Mode: Wi-Fi connecting
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By:/Review By: Steve Lan/ Shower Dai
Tem./Hum./Pressure: 23.4°C/51.2%/101kPa
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.254000	---	34.16	51.63	17.46	N	9.8
0.274000	47.22	---	61.00	13.78	N	9.8
0.394500	---	35.51	48.06	12.55	N	9.8
0.422500	48.23	---	57.49	9.26	N	9.8
0.650000	---	28.76	46.00	17.24	N	9.8
0.650000	45.18	---	56.00	10.82	N	9.8
0.934000	---	26.43	46.00	19.58	N	9.8
0.954000	43.39	---	56.00	12.61	N	9.8
1.374000	41.27	---	56.00	14.73	N	9.8
1.414000	---	23.18	46.00	22.82	N	9.8
2.526000	39.84	---	56.00	16.16	N	9.9
2.674000	---	25.08	46.00	20.92	N	9.9

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.394500	---	29.67	47.97	18.29	1000.0	9.000	N	9.8
0.422500	41.58	---	57.40	15.82	1000.0	9.000	N	9.8