

Appendix A: Test Results of 2.4GHz SDR

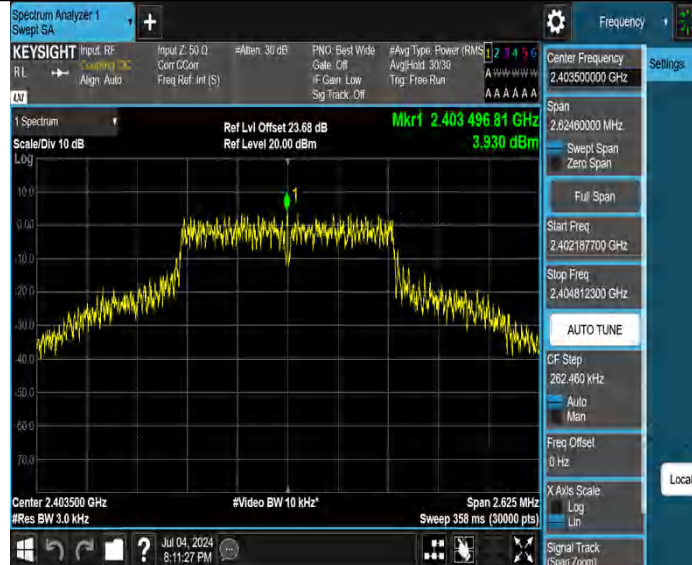
APPENDIX A: TEST RESULTS OF 2.4GHz SDR	1
APPENDIX A.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
2.4GHz SDR, 1.4MHz BW	2
2.4GHz SDR, 3MHz BW	5
2.4GHz SDR, 5MHz BW	8
2.4GHz SDR, 10MHz BW	11
2.4GHz SDR, 20MHz BW	14
2.4GHz SDR, 40MHz BW	17
2.4GHz SDR, 60MHz BW	20
APPENDIX A.2: TEST RESULTS OF 6dB BANDWIDTH	23
2.4GHz SDR, 1.4MHz BW	23
2.4GHz SDR, 3MHz BW	25
2.4GHz SDR, 5MHz BW	27
2.4GHz SDR, 10MHz BW	29
2.4GHz SDR, 20MHz BW	31
2.4GHz SDR, 40MHz BW	33
2.4GHz SDR, 60MHz BW	35
APPENDIX A.3: TEST RESULTS OF 99% BANDWIDTH	37
2.4GHz SDR, 1.4MHz BW	37
2.4GHz SDR, 3MHz BW	39
2.4GHz SDR, 5MHz BW	41
2.4GHz SDR, 10MHz BW	43
2.4GHz SDR, 20MHz BW	45
2.4GHz SDR, 40MHz BW	47
2.4GHz SDR, 60MHz BW	49
APPENDIX A.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH	51
Bandedge	51
Conducted Spurious Emission	58
APPENDIX A.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	86
30MHz - 1GHz	86
1GHz - 18GHz	88
APPENDIX A.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	116
2.4GHz SDR, 1.4MHz BW	116
2.4GHz SDR, 3MHz BW	120
2.4GHz SDR, 5MHz BW	124
2.4GHz SDR, 10MHz BW	128
2.4GHz SDR, 20MHz BW	132
2.4GHz SDR, 40MHz BW	136
2.4GHz SDR, 60MHz BW	140
APPENDIX A.7: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	144

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

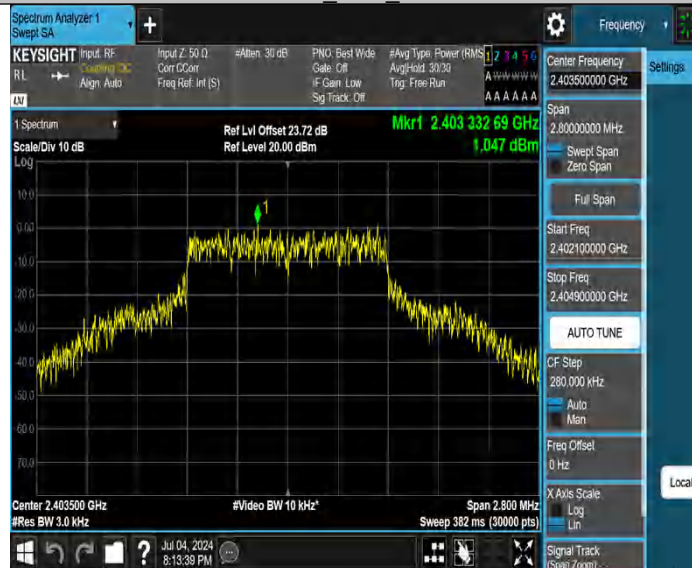
2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
1.4MHz	Ant3	2403.5	3.93	≤8.00	PASS
	Ant6	2403.5	1.05	≤8.00	PASS
	total	2403.5	5.73	≤8.00	PASS
	Ant3	2435.5	3.13	≤8.00	PASS
	Ant6	2435.5	0.03	≤8.00	PASS
	total	2435.5	4.86	≤8.00	PASS
	Ant3	2469.12	3.68	≤8.00	PASS
	Ant6	2469.12	-0.38	≤8.00	PASS
	total	2469.12	5.12	≤8.00	PASS

1.4MHz Ant3 2403.5



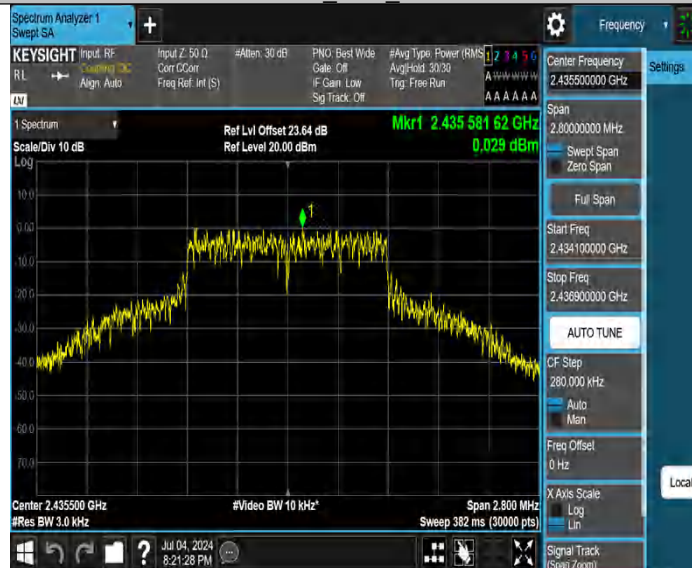
1.4MHz Ant6 2403.5



1.4MHz Ant3 2435.5



1.4MHz Ant6 2435.5



1.4MHz Ant3 2469.12



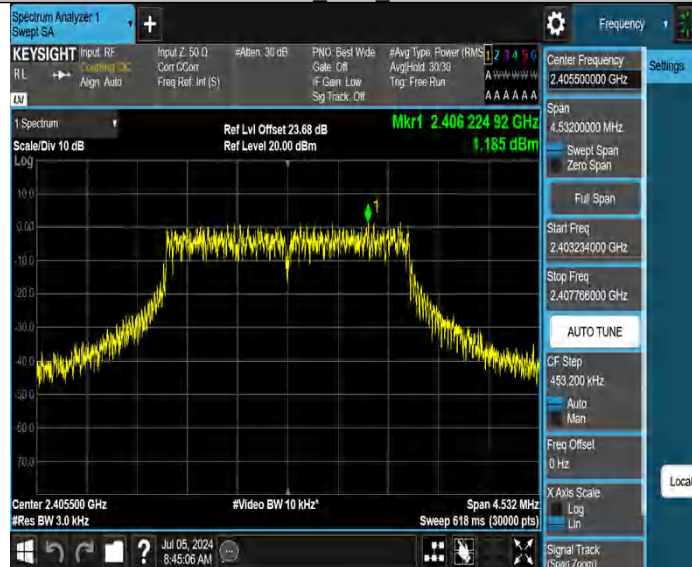
1.4MHz Ant6 2469.12



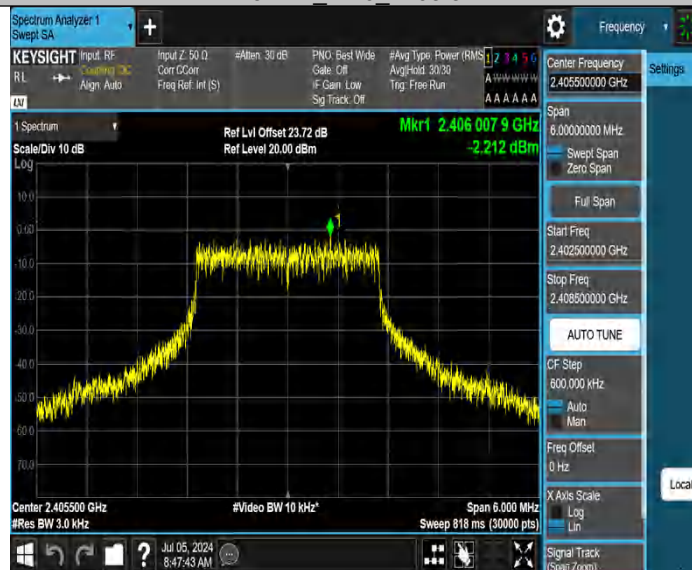
2.4GHz SDR, 3MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
3MHz	Ant3	2405.5	1.19	≤8.00	PASS
	Ant6	2405.5	-2.21	≤8.00	PASS
	total	2405.5	2.82	≤8.00	PASS
	Ant3	2435.5	2.36	≤8.00	PASS
	Ant6	2435.5	0.06	≤8.00	PASS
	total	2435.5	4.37	≤8.00	PASS
	Ant3	2468.2	2.93	≤8.00	PASS
	Ant6	2468.2	-0.26	≤8.00	PASS
	total	2468.2	4.63	≤8.00	PASS

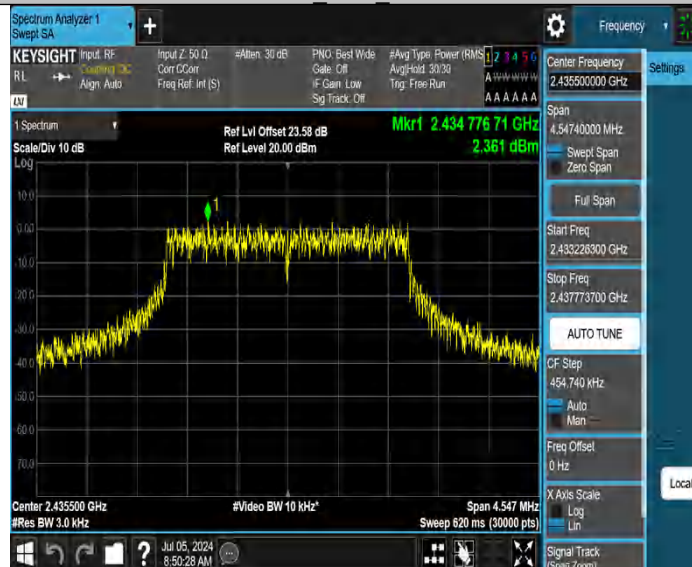
3MHz_Ant3_2405.5



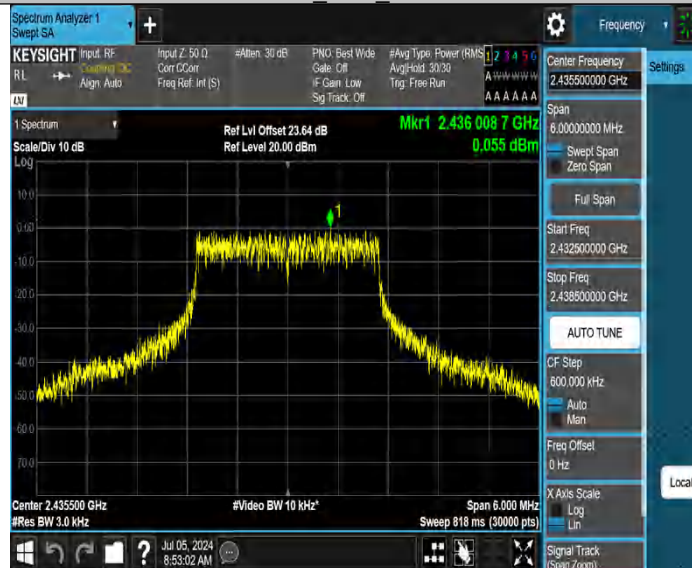
3MHz_Ant6_2405.5



3MHz_Ant3_2435.5



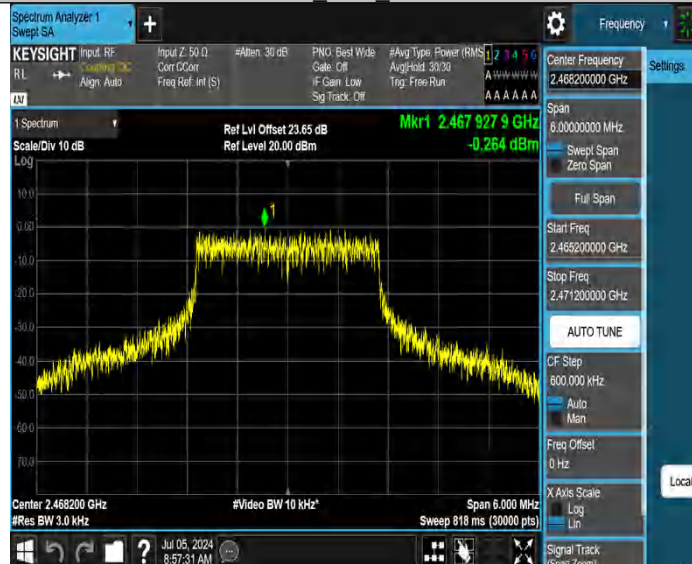
3MHz_Ant6 2435.5



3MHz_Ant3 2468.2



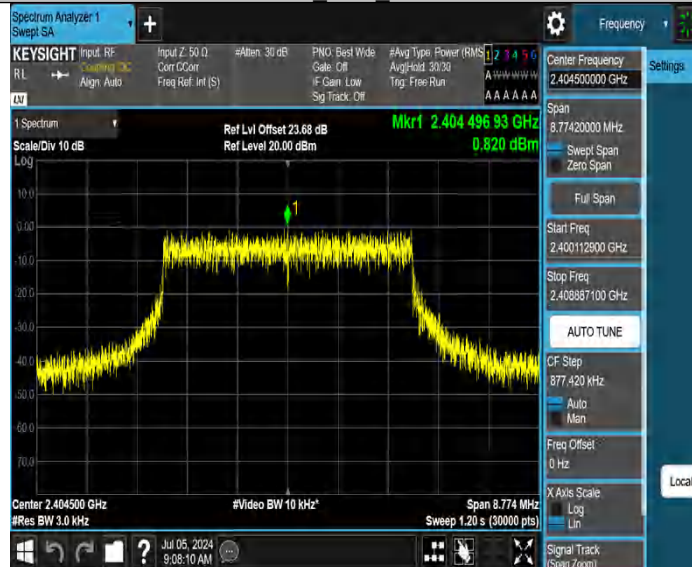
3MHz_Ant6 2468.2



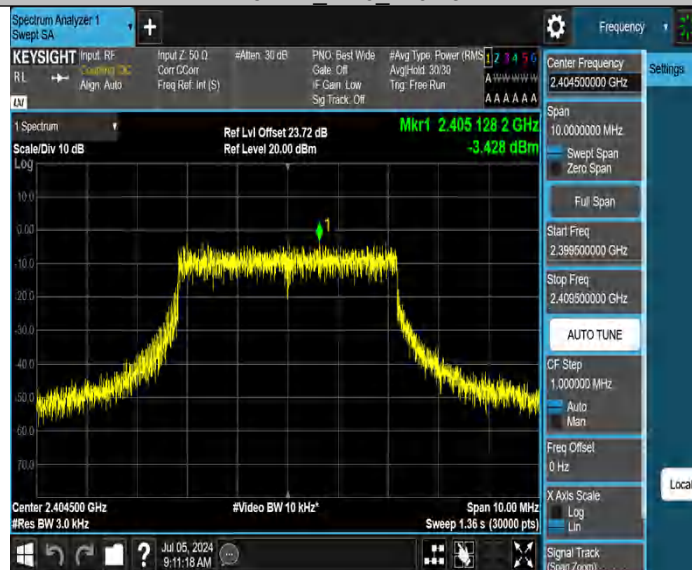
2.4GHz SDR, 5MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
5MHz	Ant3	2404.5	0.82	≤8.00	PASS
	Ant6	2404.5	-3.43	≤8.00	PASS
	total	2404.5	2.21	≤8.00	PASS
	Ant3	2434.5	-0.78	≤8.00	PASS
	Ant6	2434.5	-2.03	≤8.00	PASS
	total	2434.5	1.65	≤8.00	PASS
	Ant3	2469.5	2.61	≤8.00	PASS
	Ant6	2469.5	-2.84	≤8.00	PASS
	total	2469.5	3.70	≤8.00	PASS

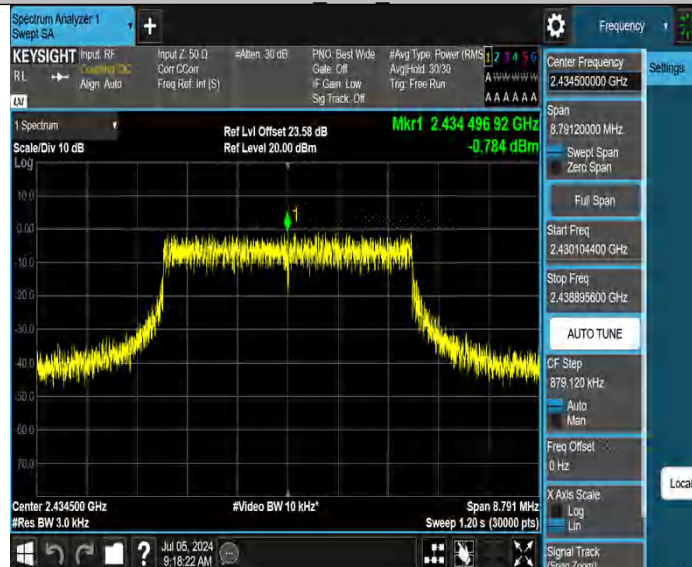
5MHz_Ant3_2404.5



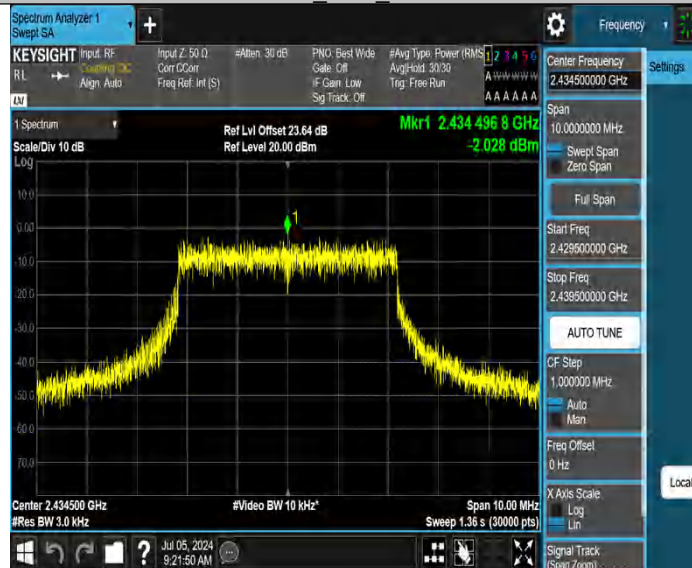
5MHz_Ant6_2404.5



5MHz_Ant3_2434.5



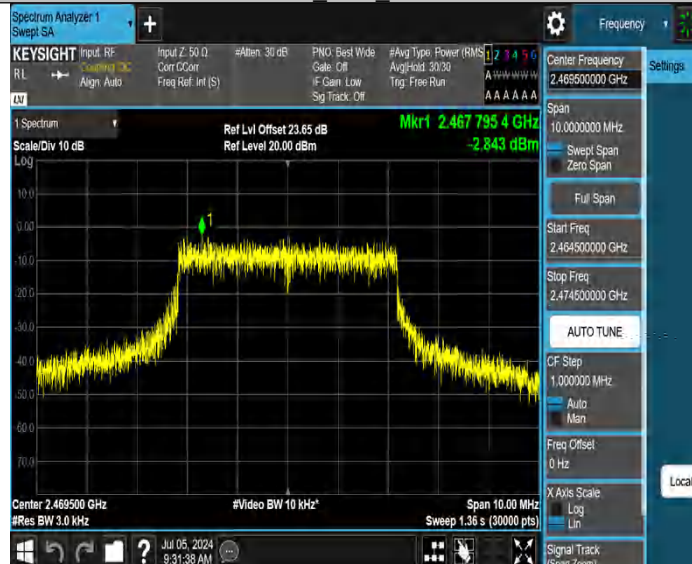
5MHz_Ant6 2434.5



5MHz_Ant3 2469.5



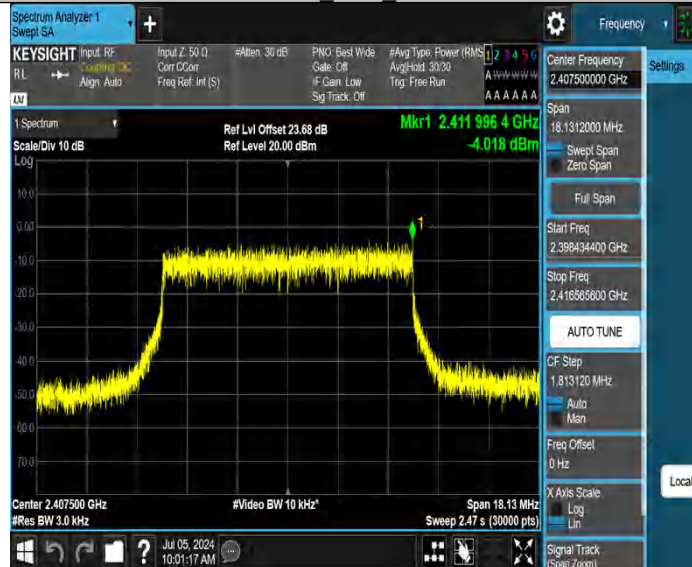
5MHz_Ant6 2469.5



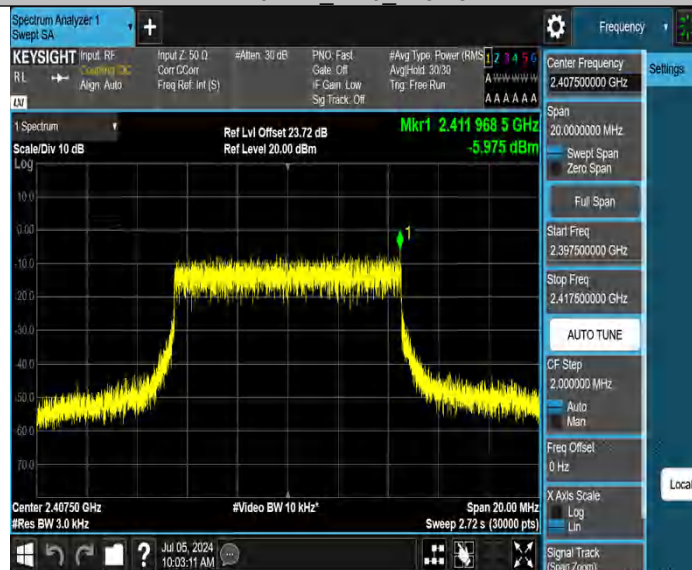
2.4GHz SDR, 10MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
10MHz	Ant3	2407.5	-4.02	≤8.00	PASS
	Ant6	2407.5	-5.98	≤8.00	PASS
	total	2407.5	-1.88	≤8.00	PASS
	Ant3	2437.5	-3.55	≤8.00	PASS
	Ant6	2437.5	-5.14	≤8.00	PASS
	total	2437.5	-1.26	≤8.00	PASS
	Ant3	2467.5	-5.48	≤8.00	PASS
	Ant6	2467.5	-8.33	≤8.00	PASS
	total	2467.5	-3.66	≤8.00	PASS

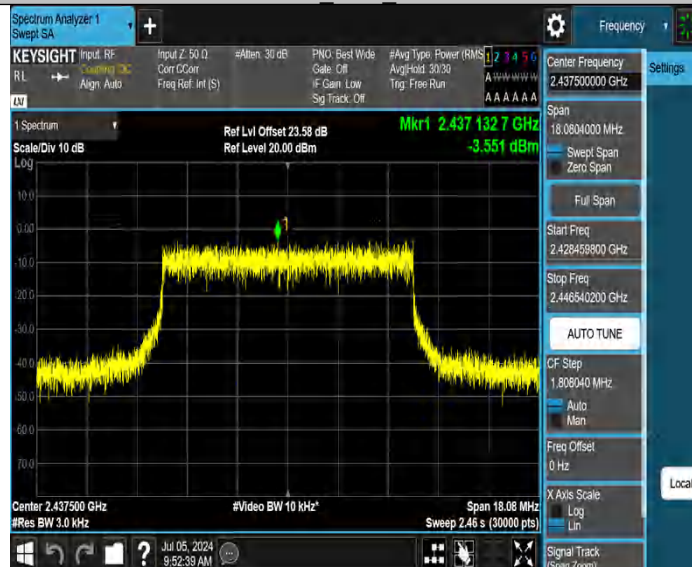
10MHz Ant3 2407.5



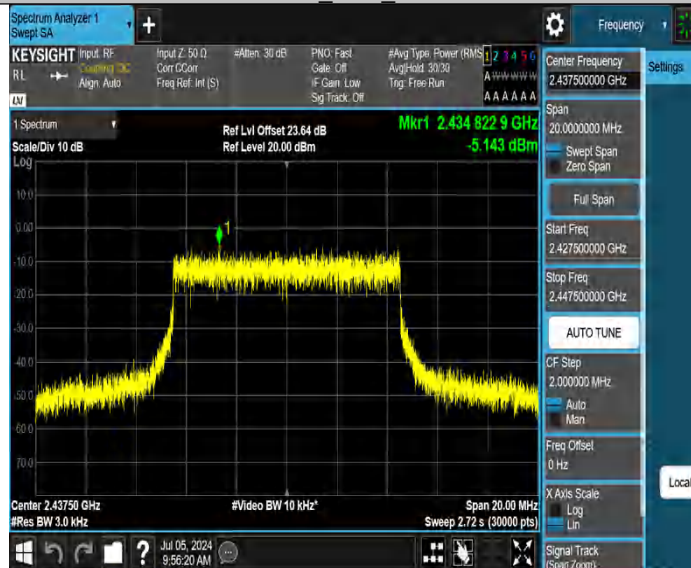
10MHz Ant6 2407.5



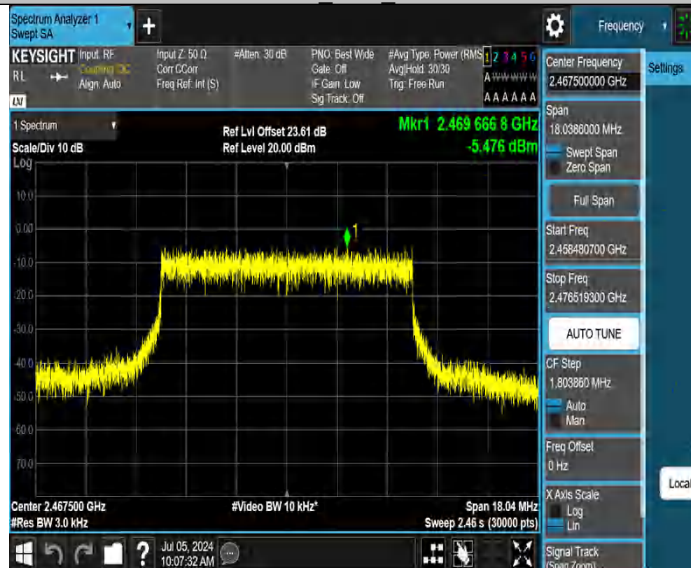
10MHz Ant3 2437.5



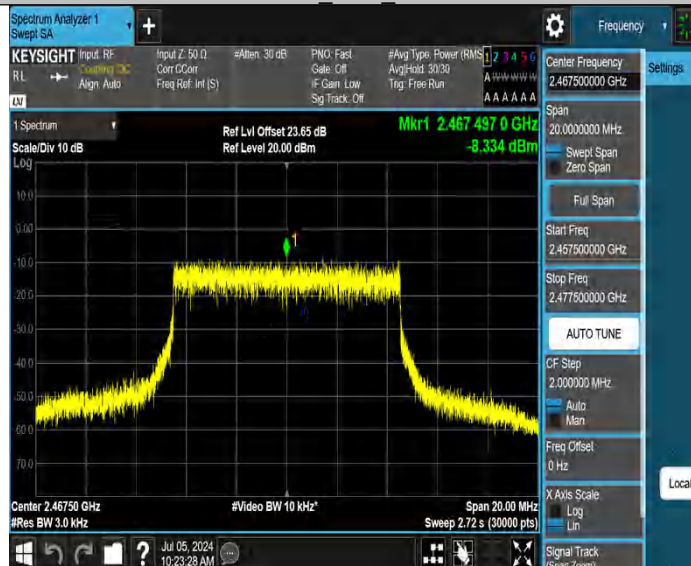
10MHz Ant6 2437.5



10MHz Ant3 2467.5



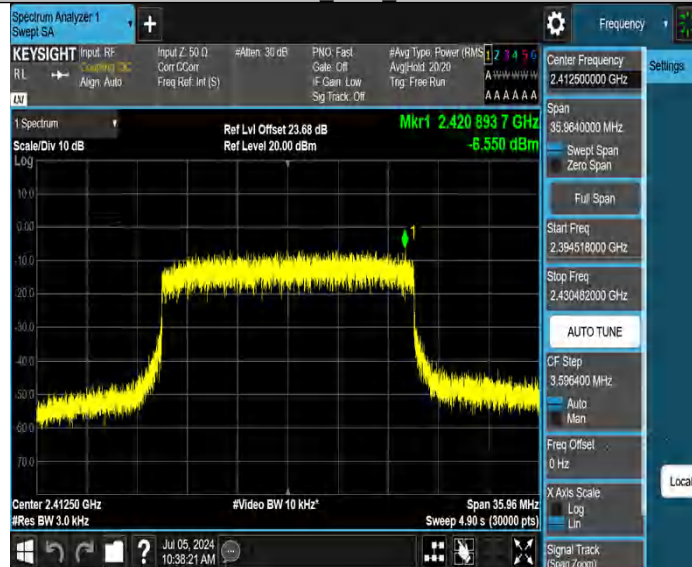
10MHz Ant6 2467.5



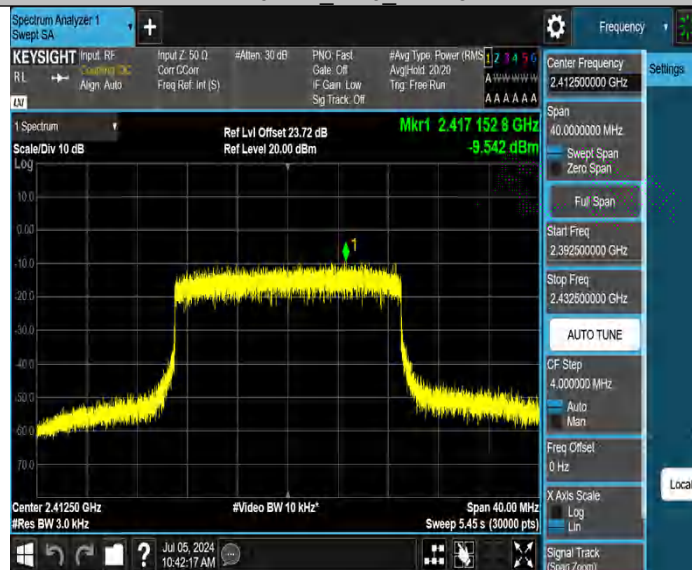
2.4GHz SDR, 20MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
20MHz	Ant3	2412.5	-6.55	≤8.00	PASS
	Ant6	2412.5	-9.54	≤8.00	PASS
	total	2412.5	-4.78	≤8.00	PASS
	Ant3	2437.5	-5.50	≤8.00	PASS
	Ant6	2437.5	-9.06	≤8.00	PASS
	total	2437.5	-3.91	≤8.00	PASS
	Ant3	2462.5	-4.10	≤8.00	PASS
	Ant6	2462.5	-9.18	≤8.00	PASS
	total	2462.5	-2.93	≤8.00	PASS

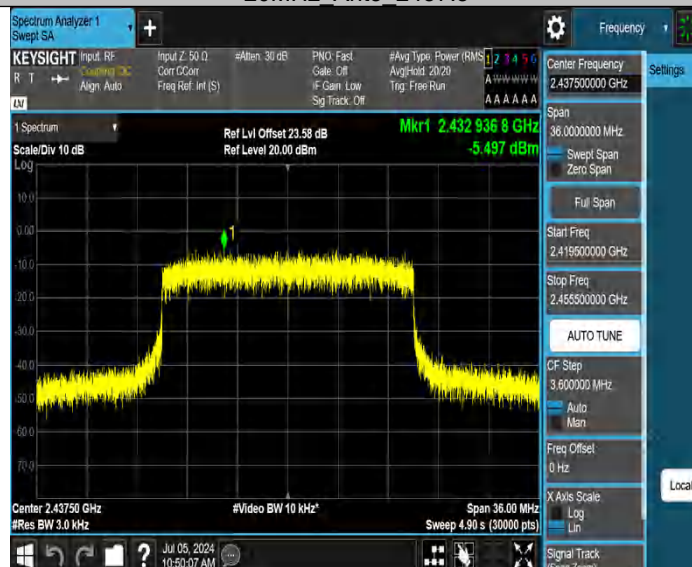
20MHz Ant3 2412.5



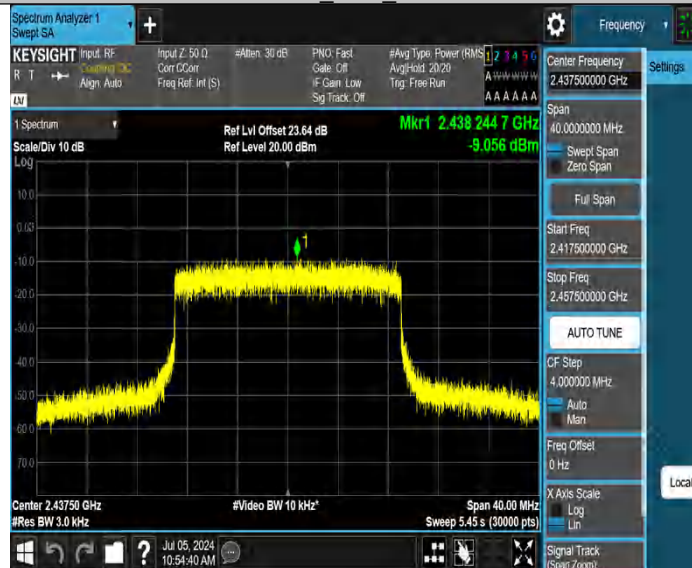
20MHz Ant6 2412.5



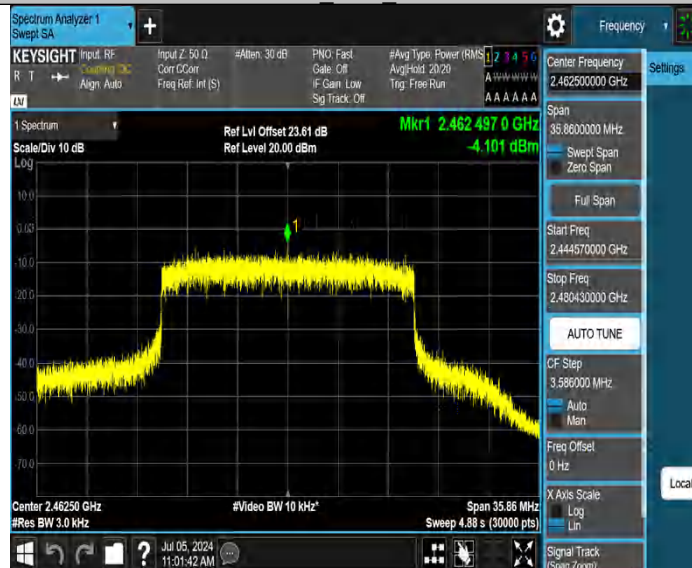
20MHz Ant3 2437.5



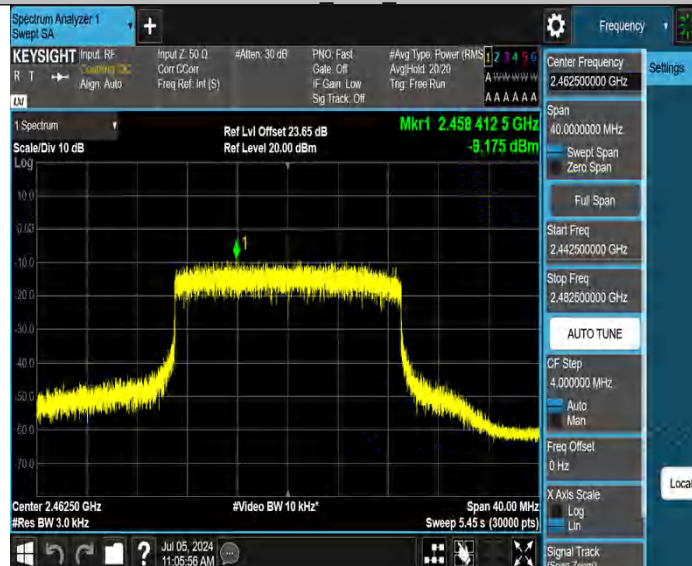
20MHz Ant6 2437.5



20MHz Ant3 2462.5



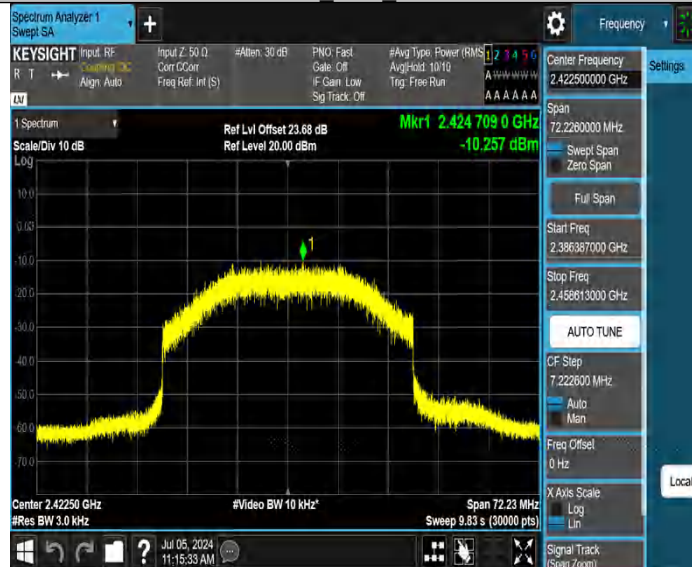
20MHz Ant6 2462.5



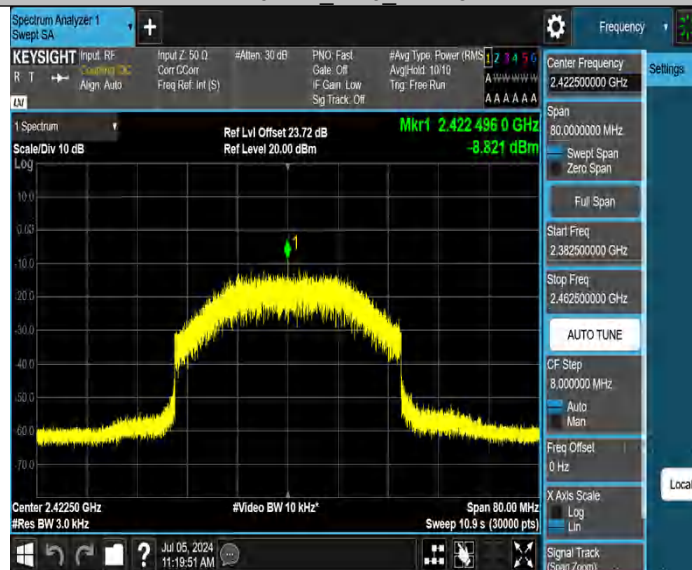
2.4GHz SDR, 40MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
40MHz	Ant3	2422.5	-10.26	≤8.00	PASS
	Ant6	2422.5	-8.82	≤8.00	PASS
	total	2422.5	-6.47	≤8.00	PASS
	Ant3	2437.5	-6.84	≤8.00	PASS
	Ant6	2437.5	-6.24	≤8.00	PASS
	total	2437.5	-3.52	≤8.00	PASS
	Ant3	2452.5	-8.69	≤8.00	PASS
	Ant6	2452.5	-11.79	≤8.00	PASS
	total	2452.5	-6.96	≤8.00	PASS

40MHz Ant3 2422.5

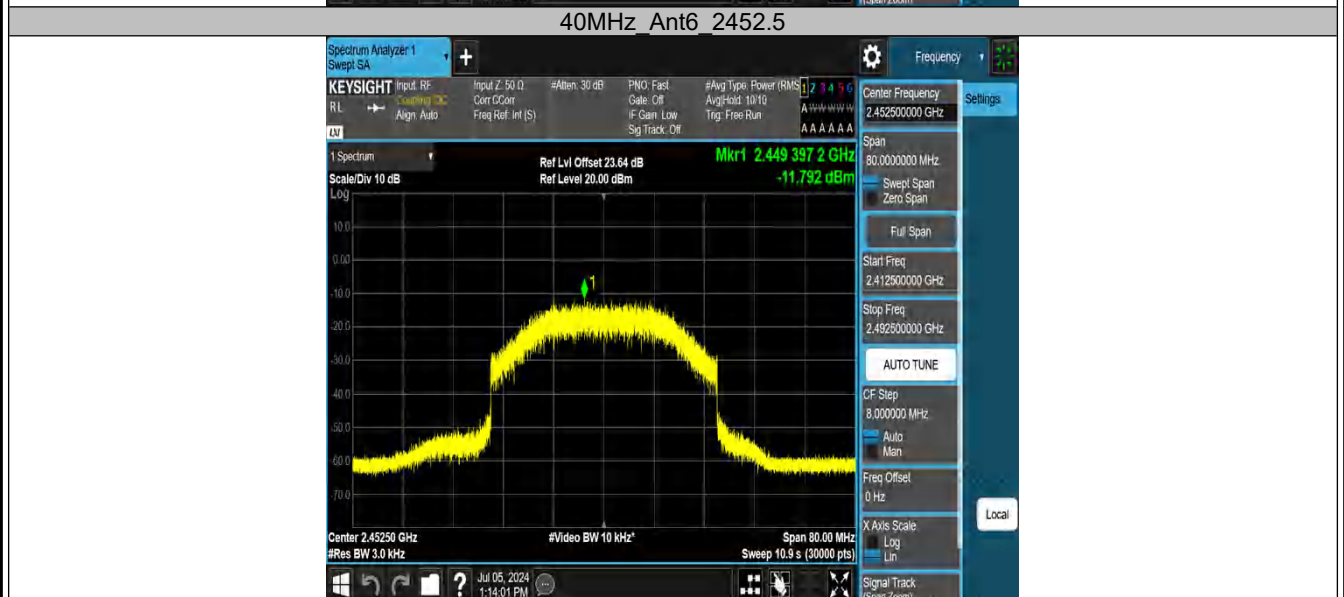
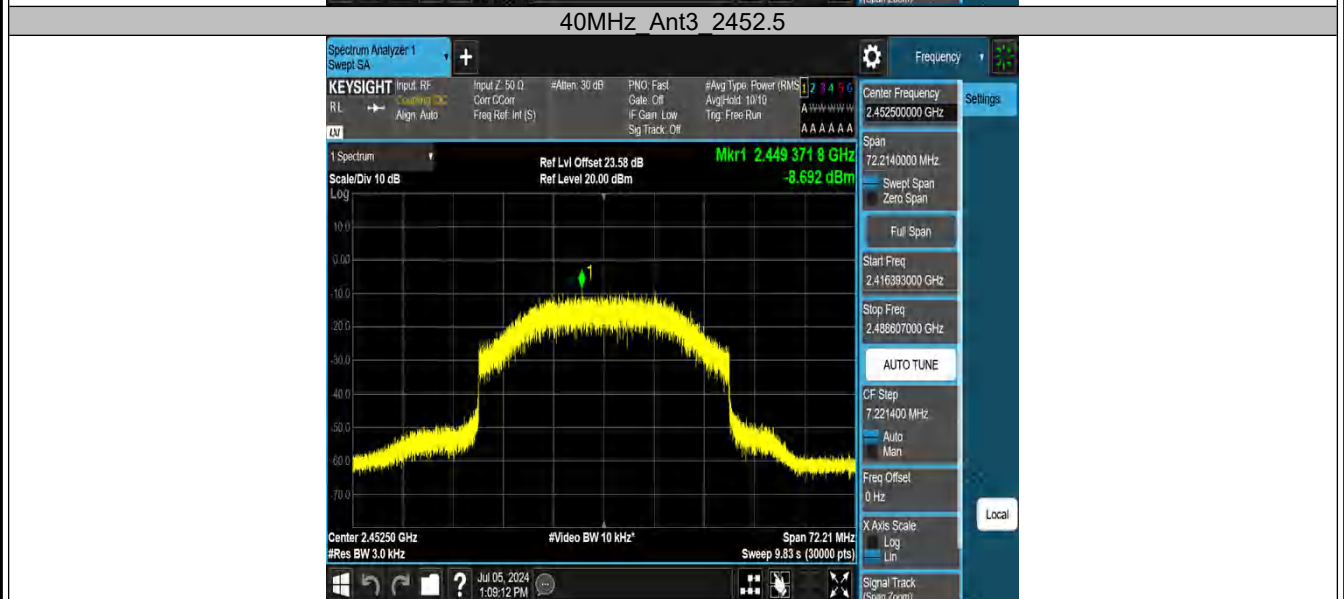
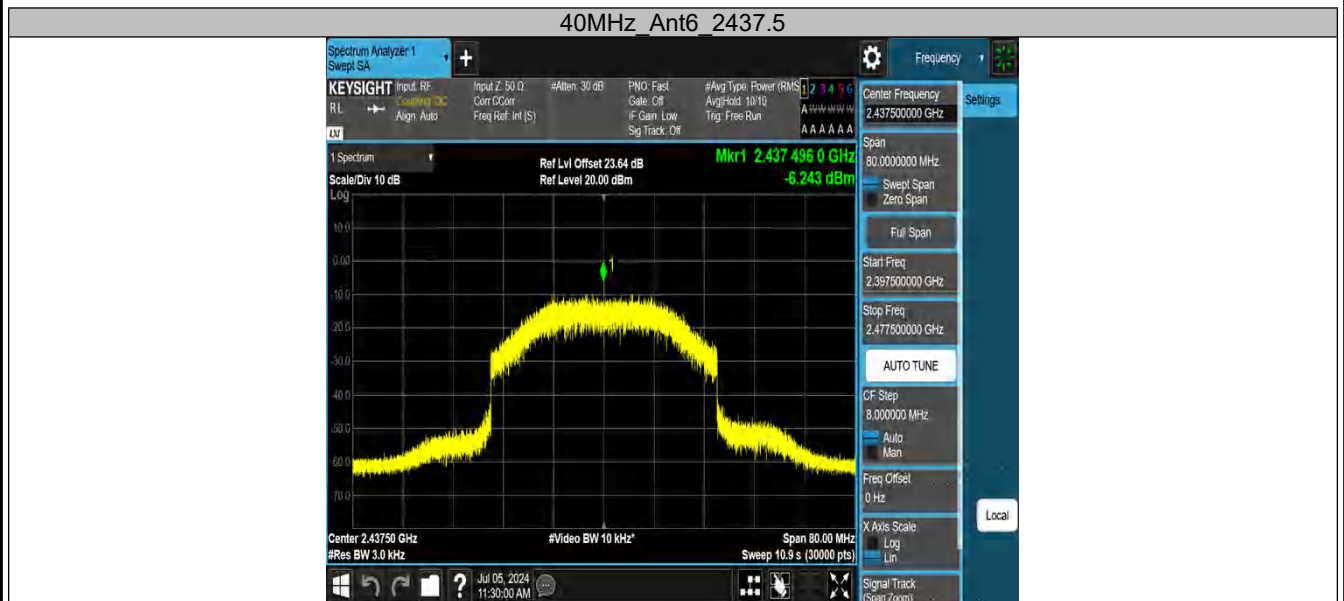


40MHz Ant6 2422.5



40MHz Ant3 2437.5

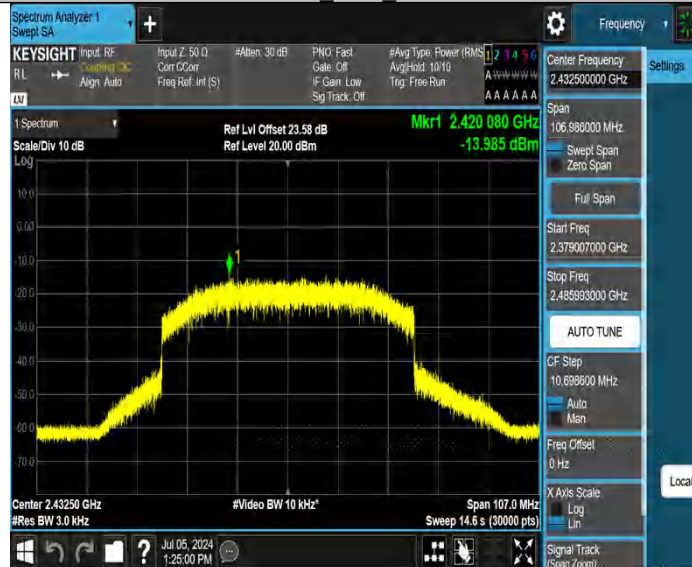




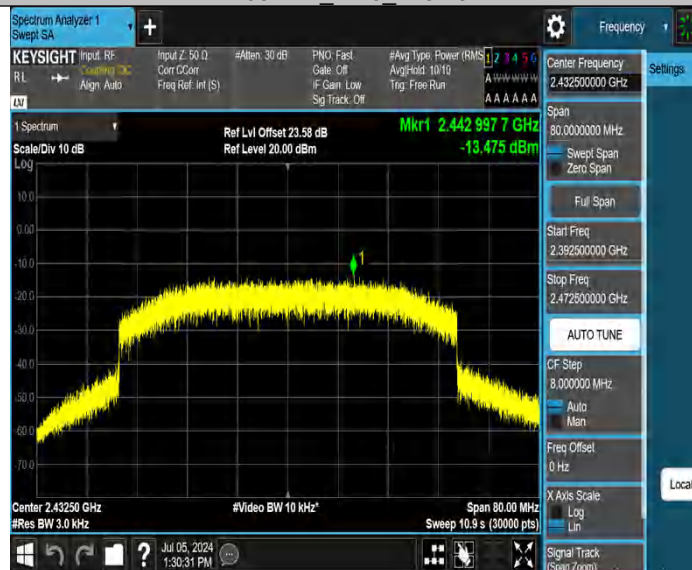
2.4GHz SDR, 60MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
60MHz	Ant3	2432.5	-13.99	≤8.00	PASS
	Ant6	2432.5	-13.48	≤8.00	PASS
	total	2432.5	-10.72	≤8.00	PASS
	Ant3	2437.5	-11.54	≤8.00	PASS
	Ant6	2437.5	-10.39	≤8.00	PASS
	total	2437.5	-7.92	≤8.00	PASS
	Ant3	2442.5	-11.51	≤8.00	PASS
	Ant6	2442.5	-11.64	≤8.00	PASS
	total	2442.5	-8.56	≤8.00	PASS

60MHz Ant3 2432.5



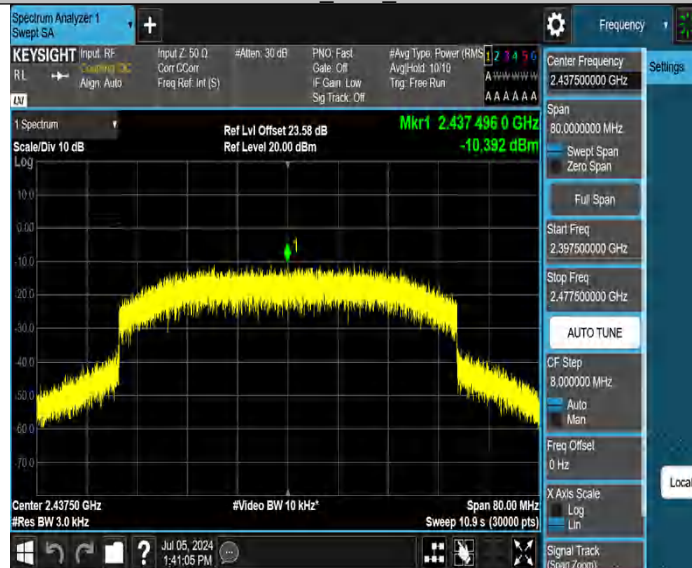
60MHz Ant6 2432.5



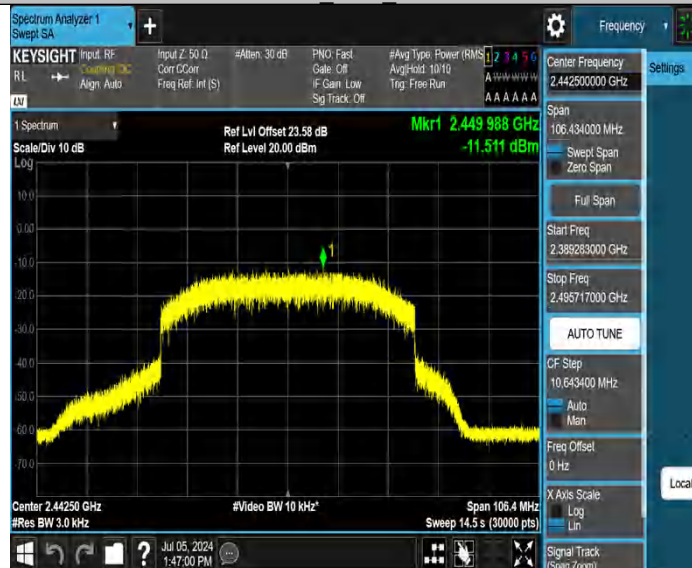
60MHz Ant3 2437.5



60MHz Ant6 2437.5



60MHz Ant3 2442.5



60MHz Ant6 2442.5



Appendix A.2: Test Results of 6dB Bandwidth

Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (ANT3) was presented in this report.

2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4MHz	Ant3	2403.5	1.140	2402.932	2404.071	0.5	PASS
		2435.5	1.103	2434.946	2436.049	0.5	PASS
		2469.12	1.128	2468.577	2469.705	0.5	PASS

1.4MHz_Ant3_2403.5



1.4MHz_Ant3_2435.5





2.4GHz SDR, 3MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3MHz	Ant3	2405.5	2.220	2404.408	2406.628	0.5	PASS
		2435.5	2.250	2434.396	2436.646	0.5	PASS
		2468.2	2.202	2467.102	2469.304	0.5	PASS

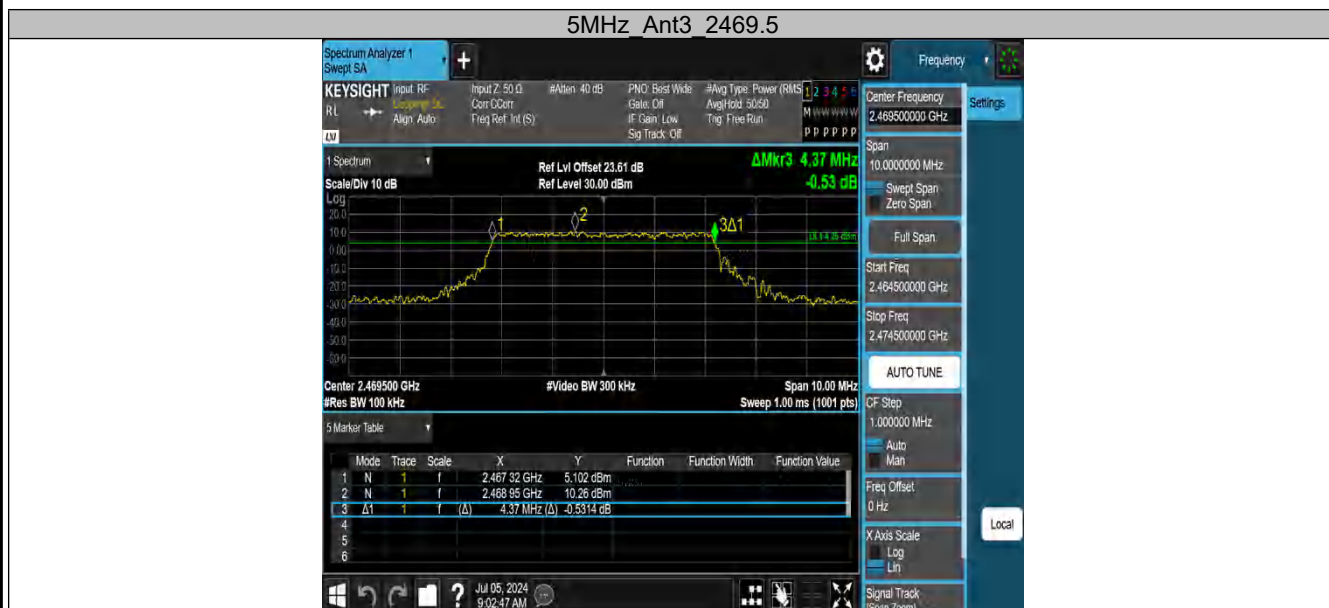




2.4GHz SDR, 5MHz BW

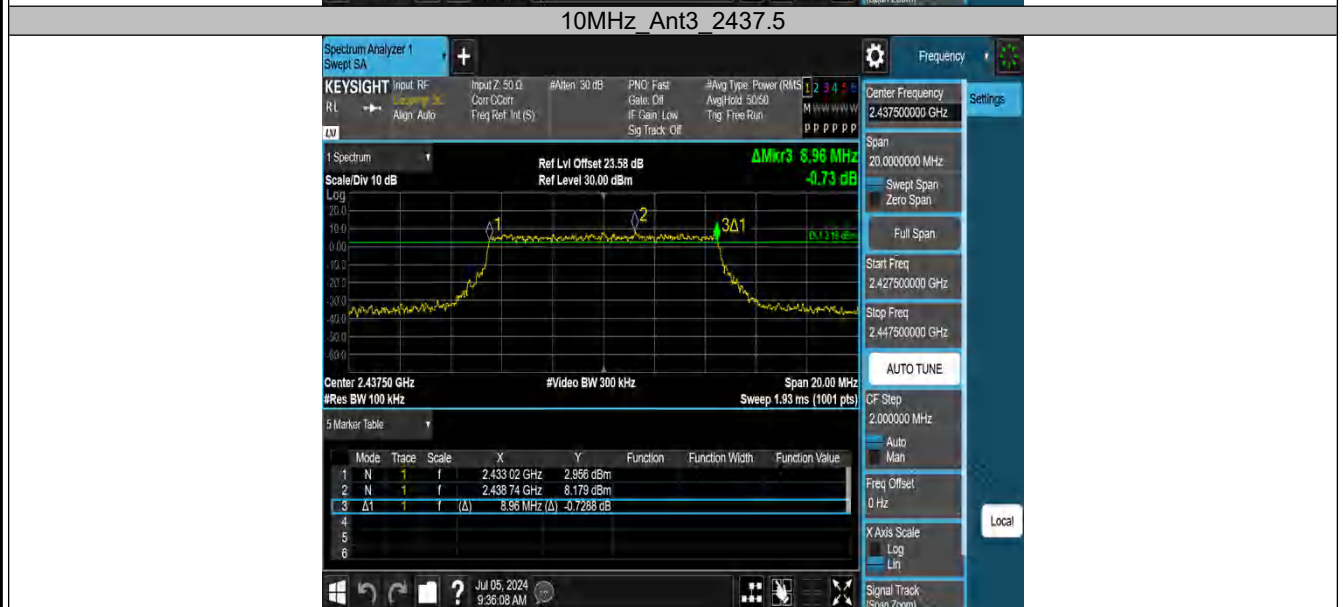
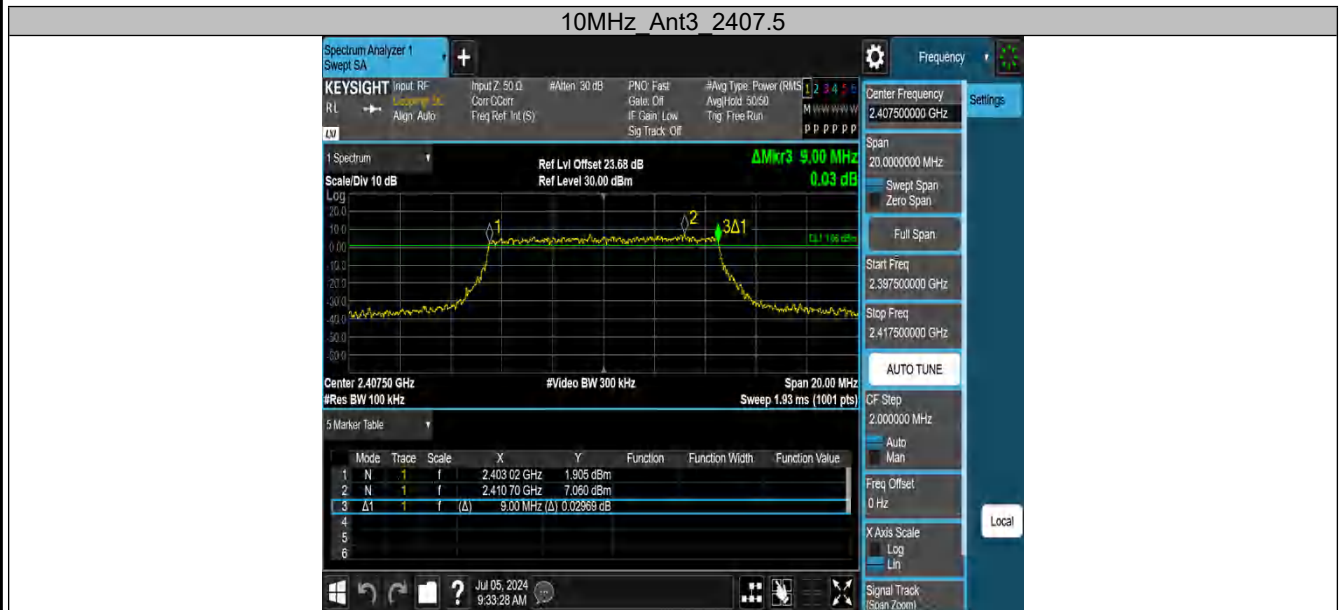
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
5MHz	Ant3	2404.5	4.360	2402.330	2406.690	0.5	PASS
		2434.5	4.330	2432.340	2436.670	0.5	PASS
		2469.5	4.370	2467.320	2471.690	0.5	PASS

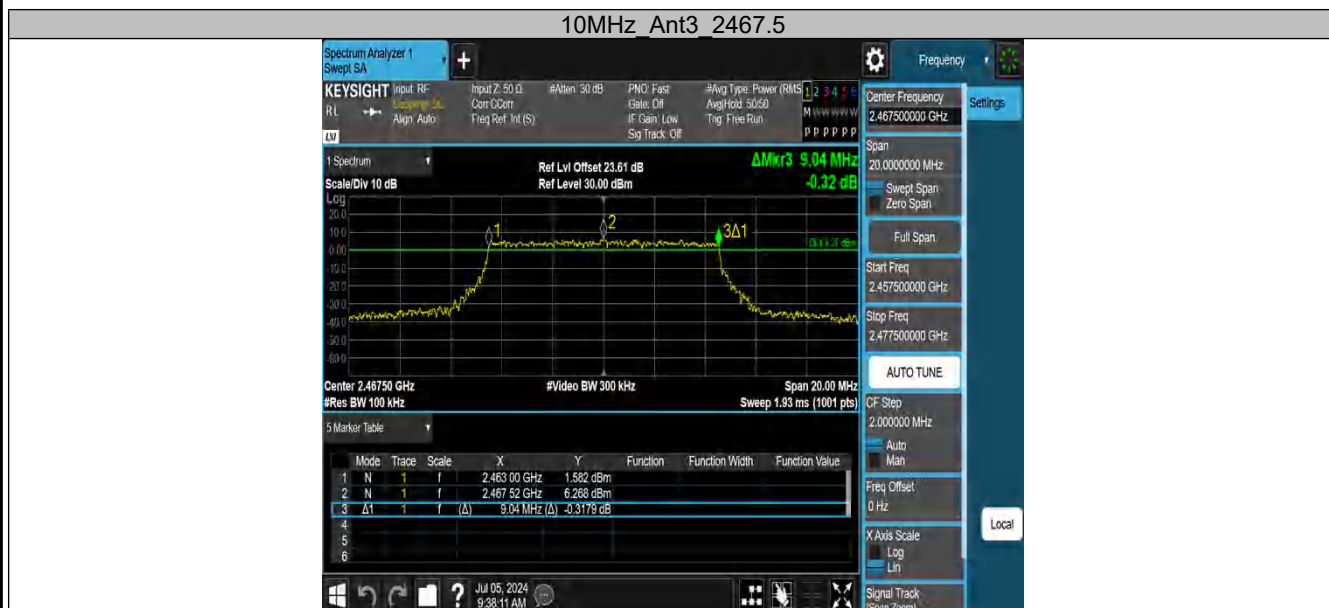




2.4GHz SDR, 10MHz BW

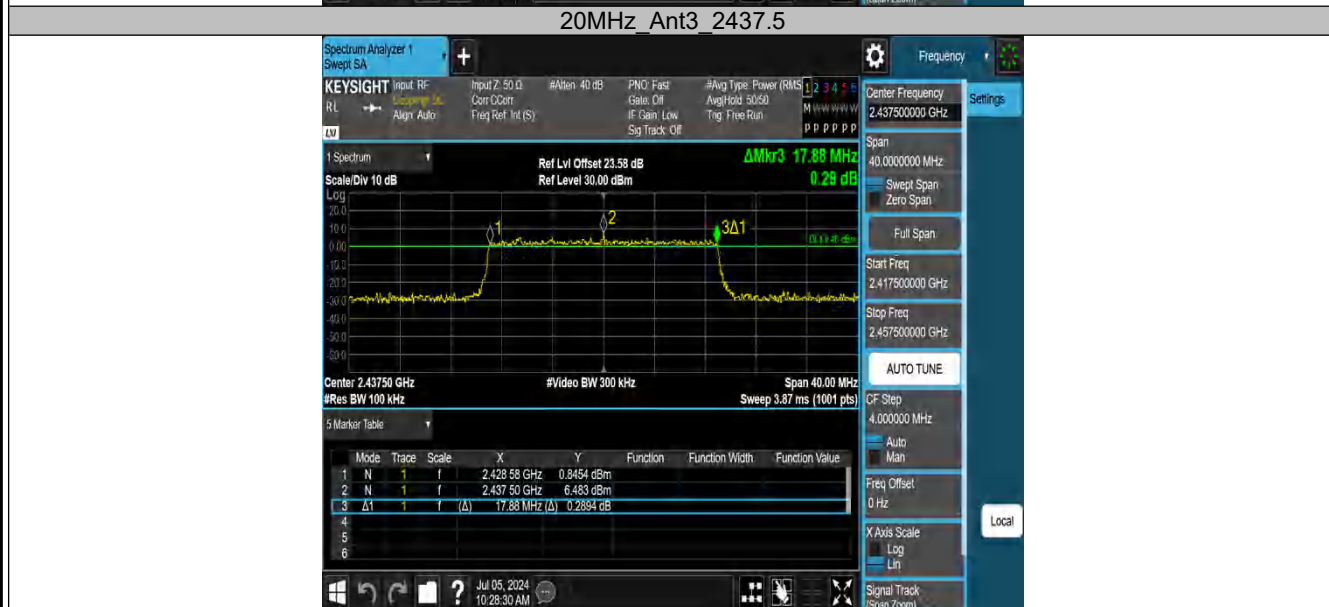
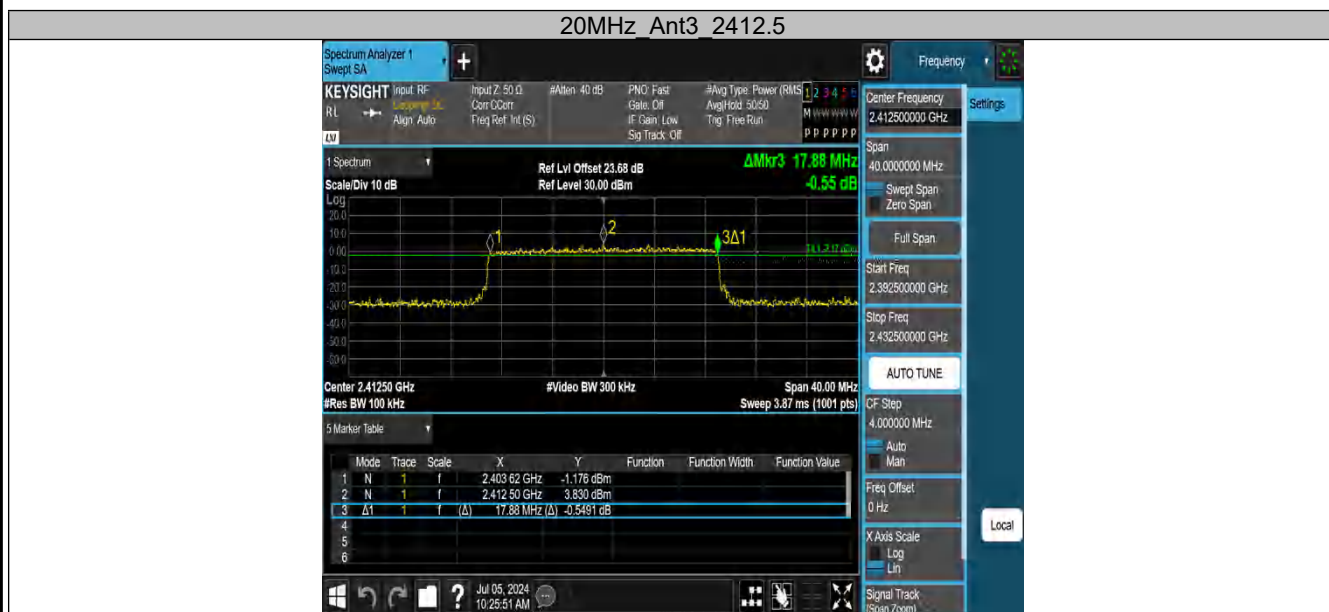
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10MHz	Ant3	2407.5	9.000	2403.020	2412.020	0.5	PASS
		2437.5	8.960	2433.020	2441.980	0.5	PASS
		2467.5	9.040	2463.000	2472.040	0.5	PASS

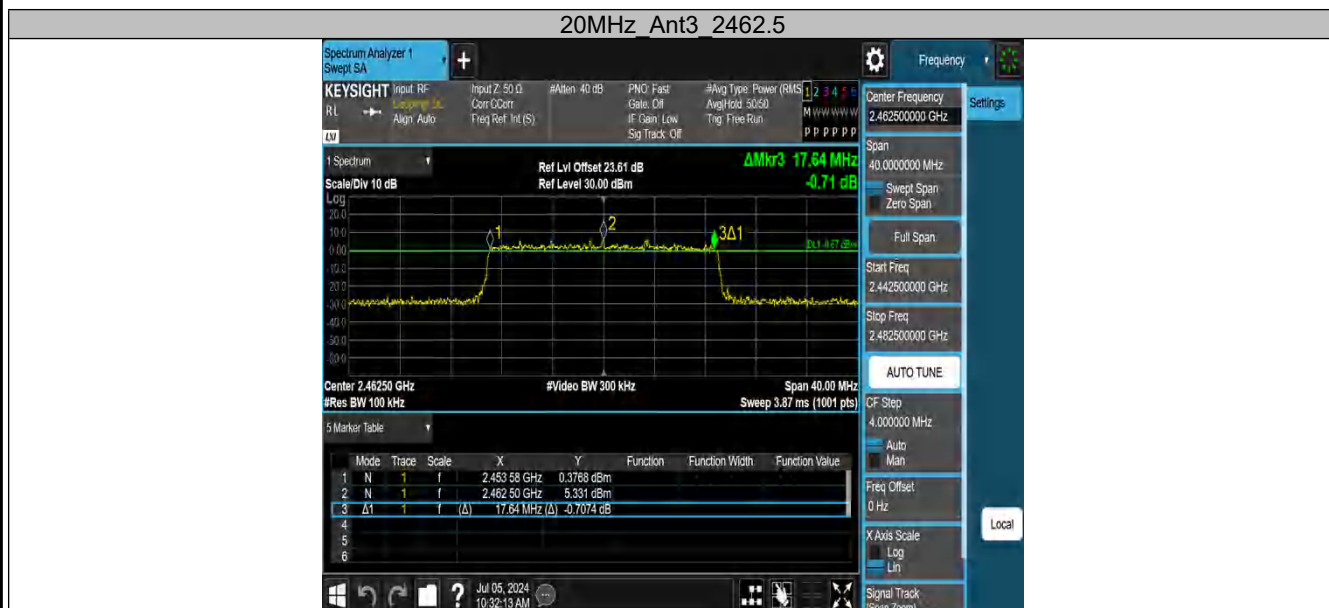




2.4GHz SDR, 20MHz BW

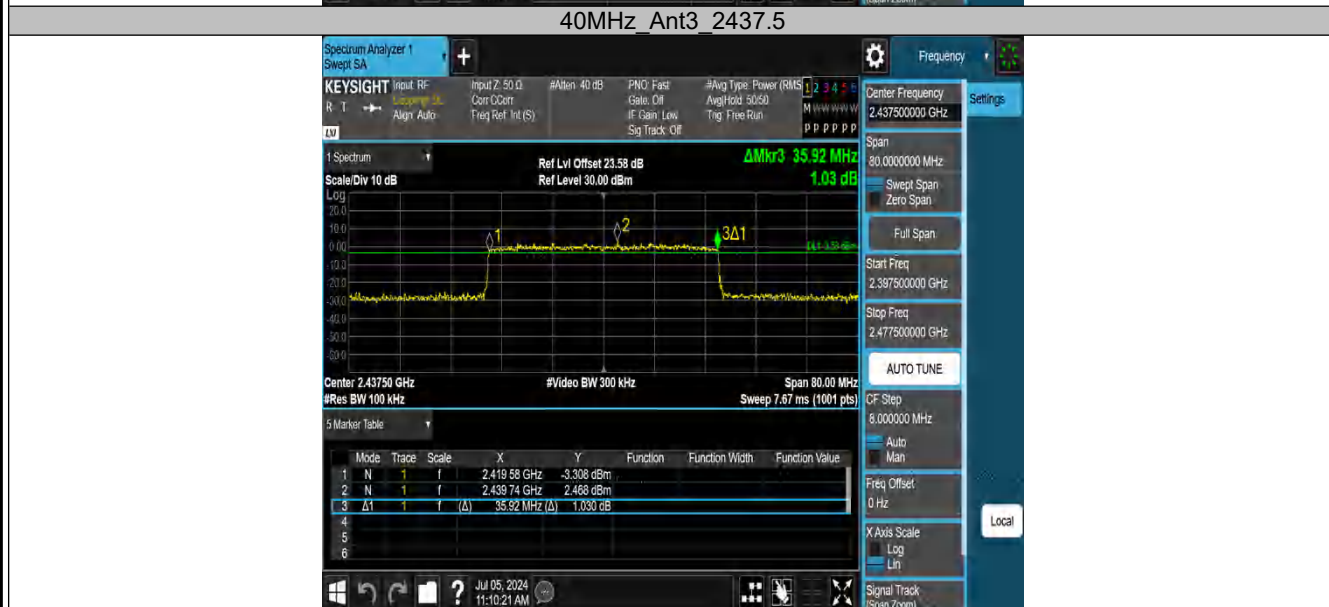
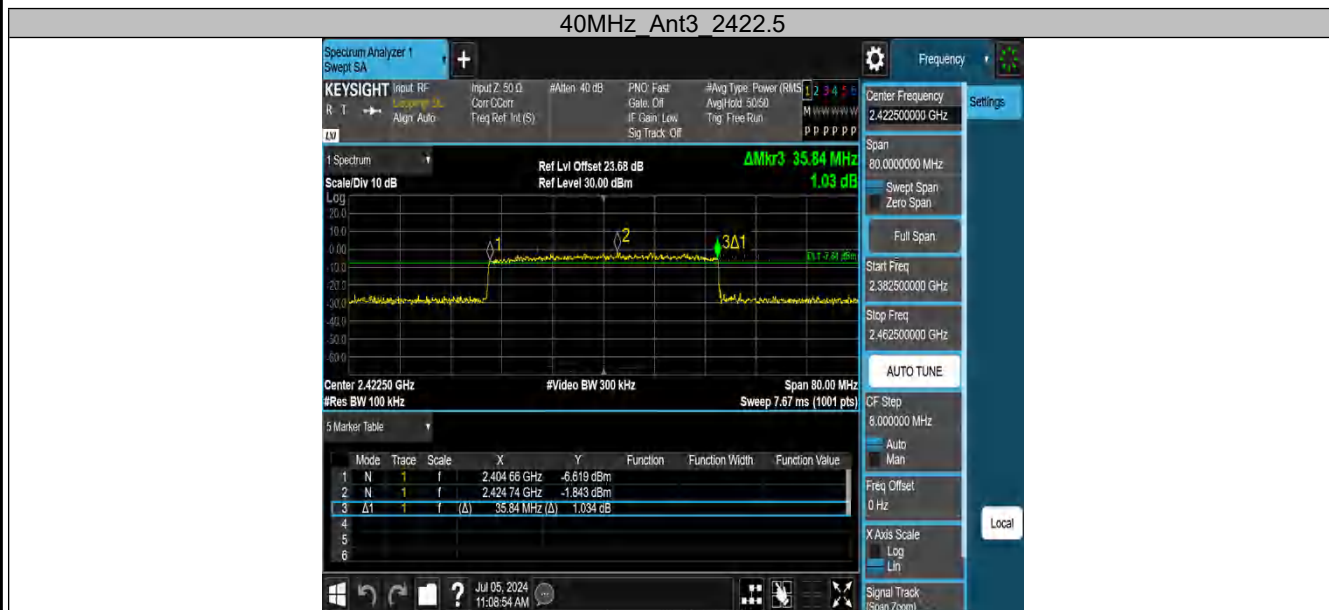
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20MHz	Ant3	2412.5	17.880	2403.620	2421.500	0.5	PASS
		2437.5	17.880	2428.580	2446.460	0.5	PASS
		2462.5	17.640	2453.580	2471.220	0.5	PASS

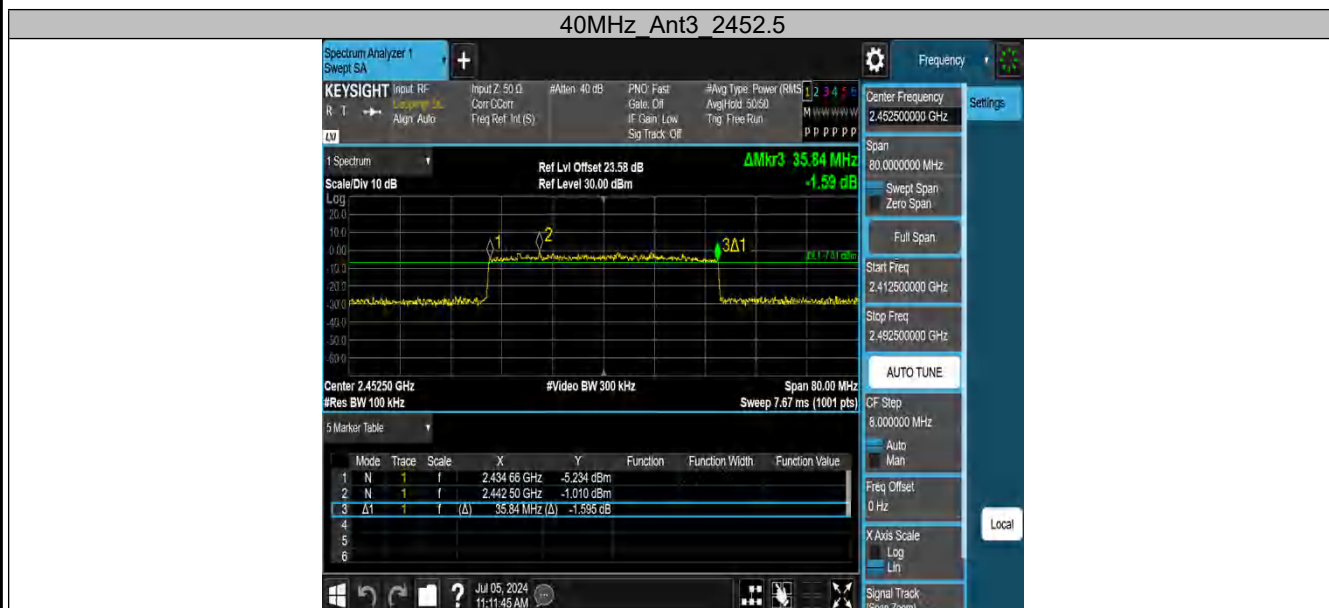




2.4GHz SDR, 40MHz BW

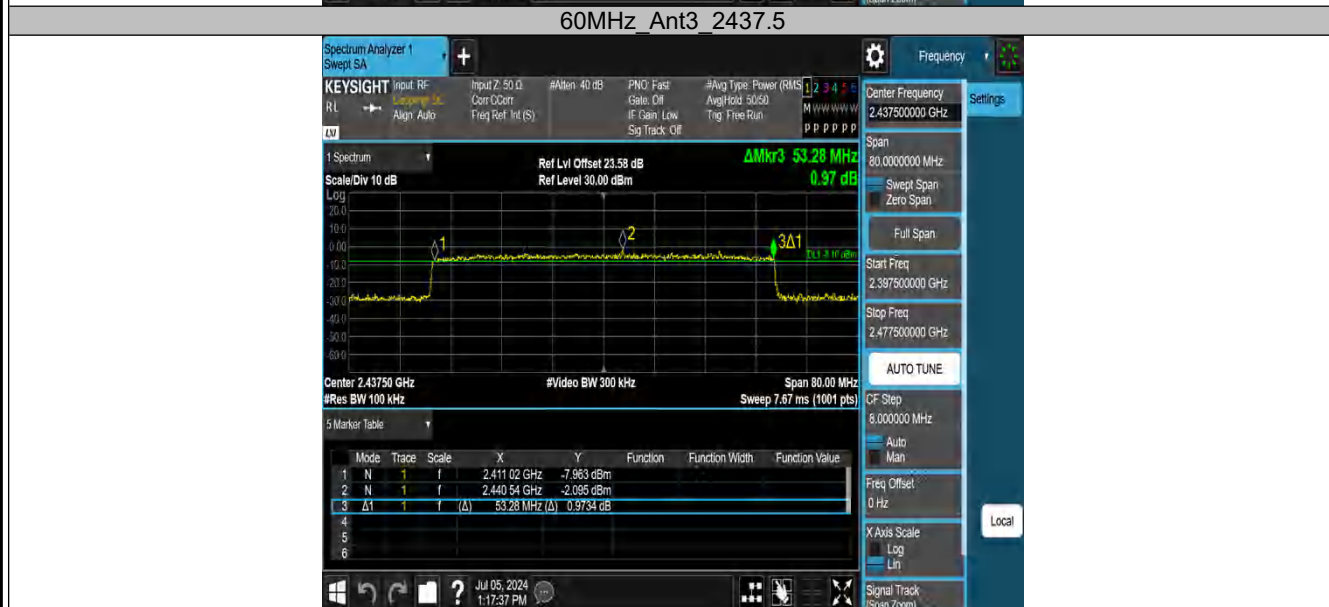
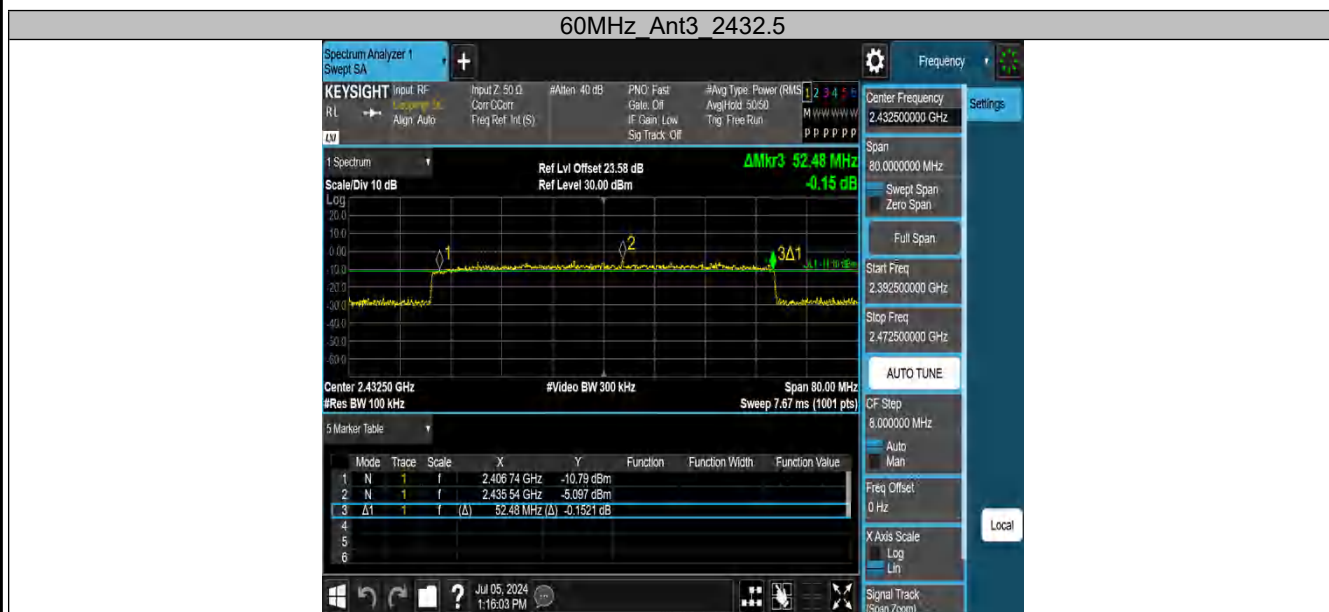
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40MHz	Ant3	2422.5	35.840	2404.660	2440.500	0.5	PASS
		2437.5	35.920	2419.580	2455.500	0.5	PASS
		2452.5	35.840	2434.660	2470.500	0.5	PASS

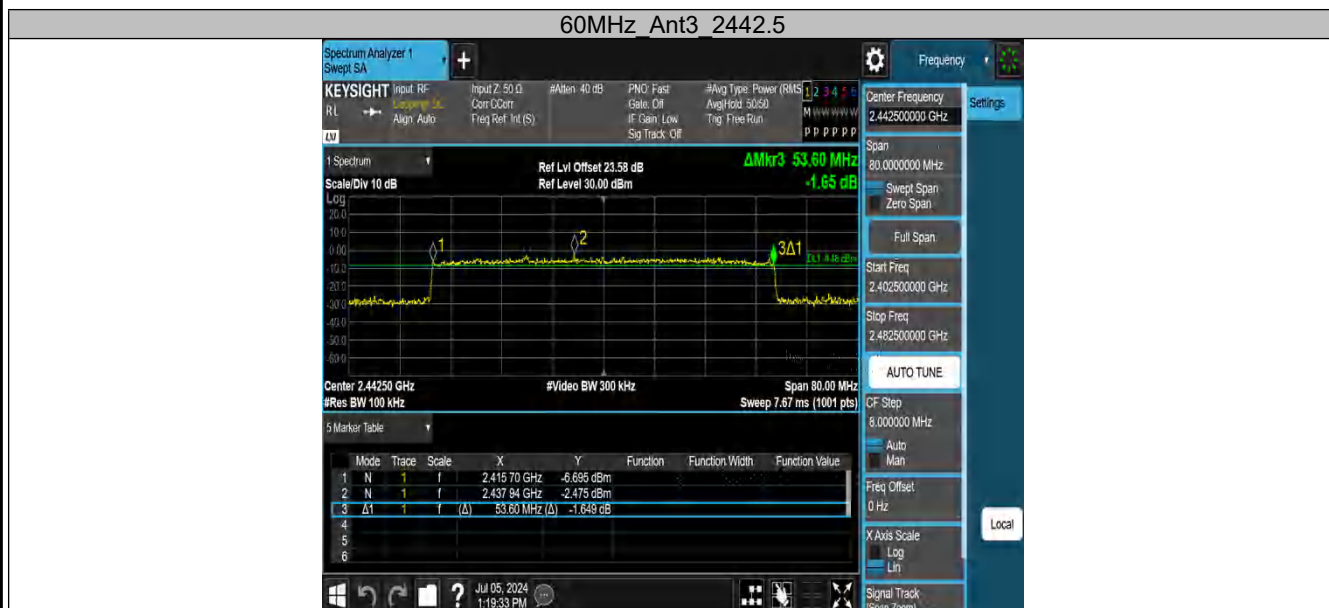




2.4GHz SDR, 60MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
60MHz	Ant3	2432.5	52.480	2406.740	2459.220	0.5	PASS
		2437.5	53.280	2411.020	2464.300	0.5	PASS
		2442.5	53.600	2415.700	2469.300	0.5	PASS





Appendix A.3: Test Results of 99% Bandwidth

Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (ANT3) was presented in this report.

2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4MHz	Ant3	2403.5	1.3123	2402.8743	2404.1866	---	PASS
		2435.5	1.3121	2434.8641	2436.1762	---	PASS
		2469.12	1.2971	2468.4911	2469.7882	---	PASS

1.4MHz_Ant3_2403.5

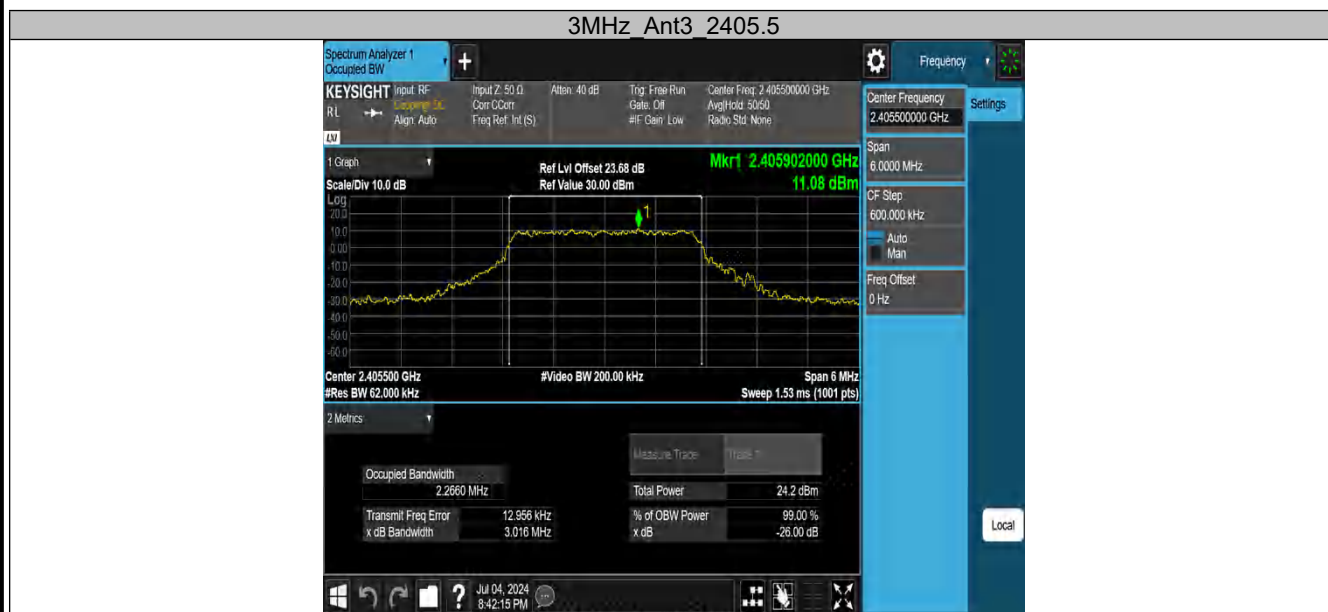


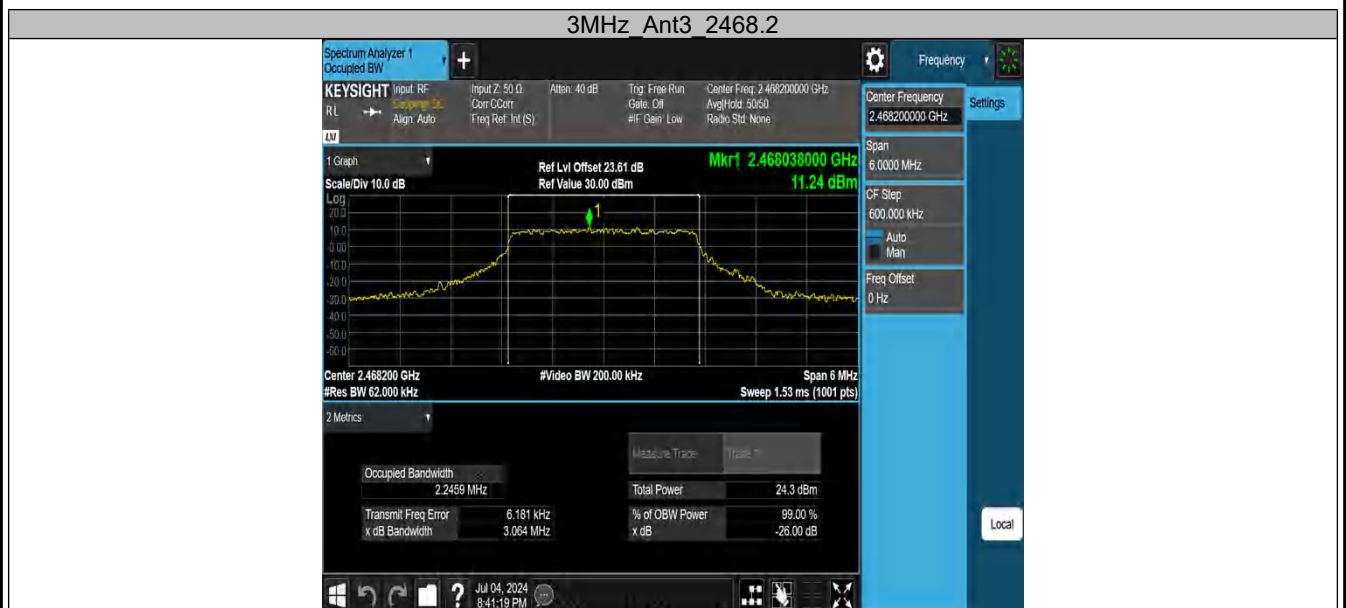
1.4MHz_Ant3_2435.5





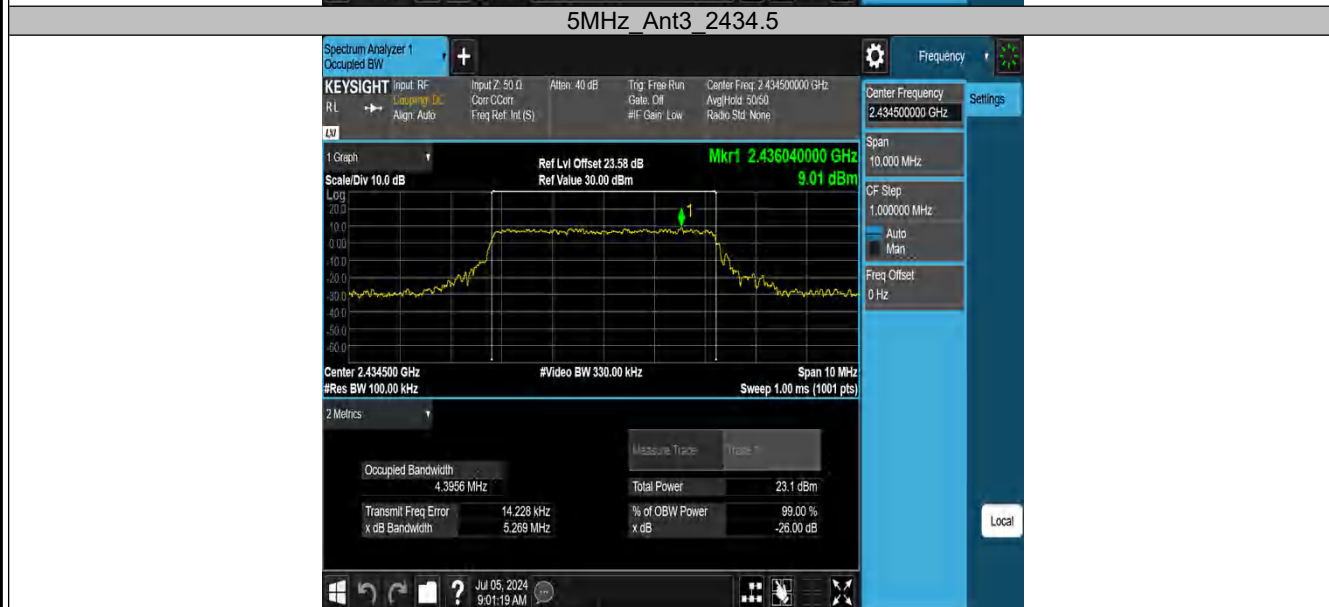
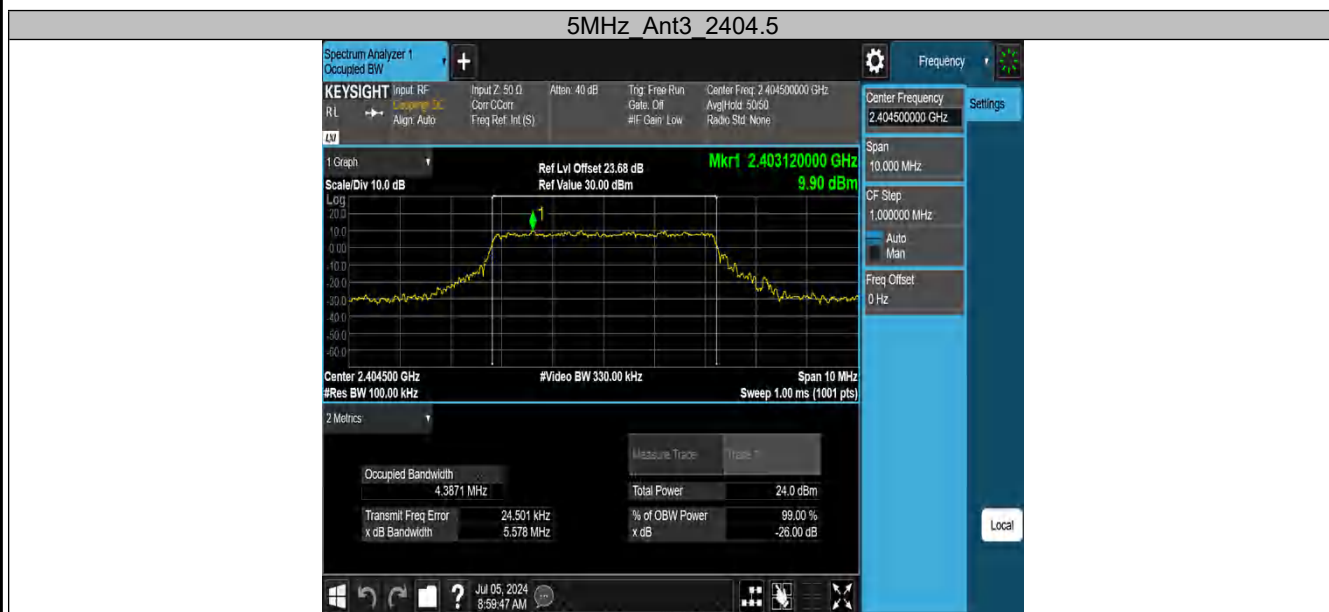
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3MHz	Ant3	2405.5	2.2660	2404.3800	2406.6460	---	PASS
		2435.5	2.2737	2434.3749	2436.6486	---	PASS
		2468.2	2.2459	2467.0832	2469.3291	---	PASS

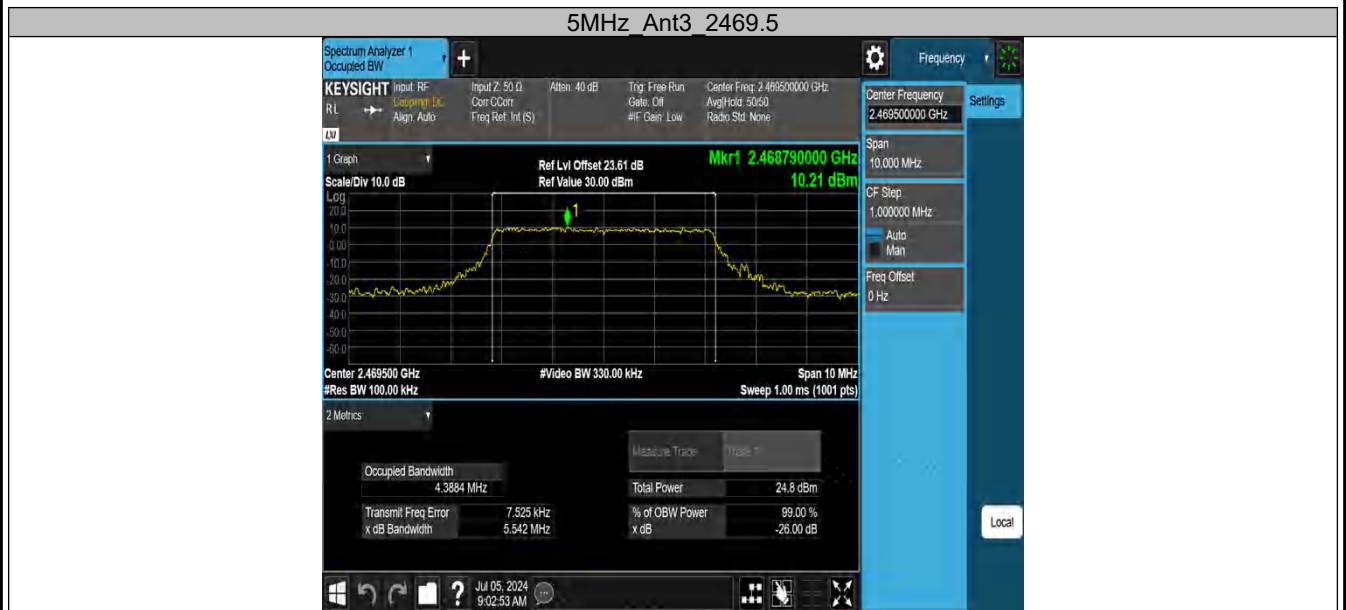




2.4GHz SDR, 5MHz BW

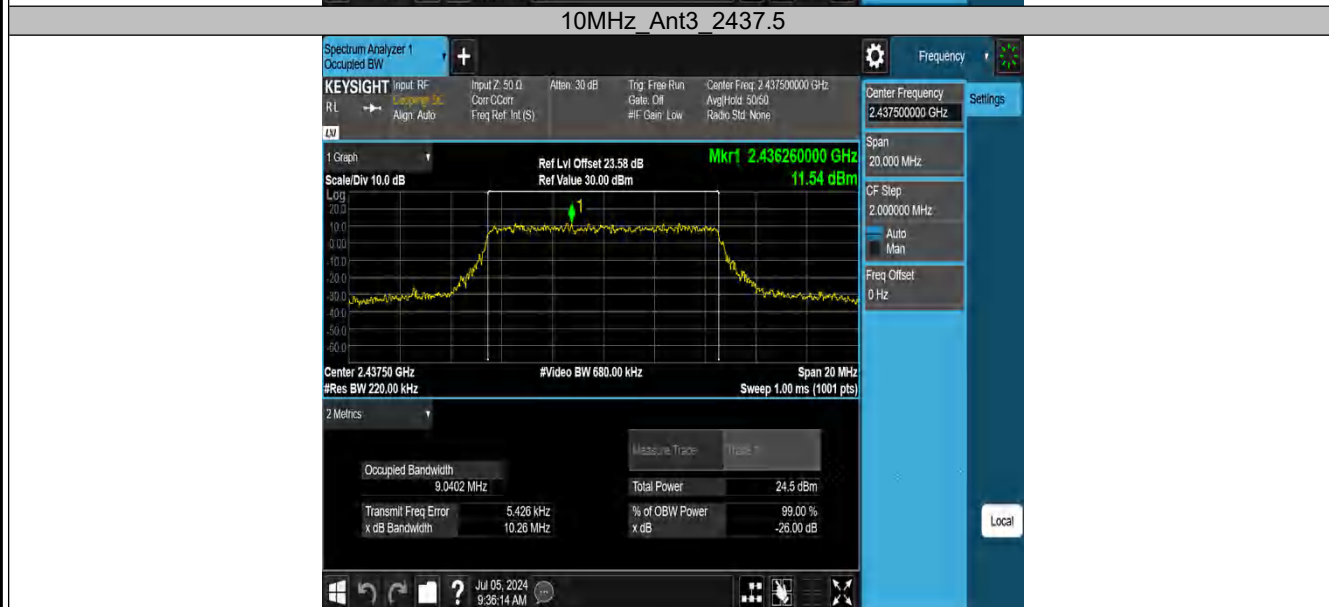
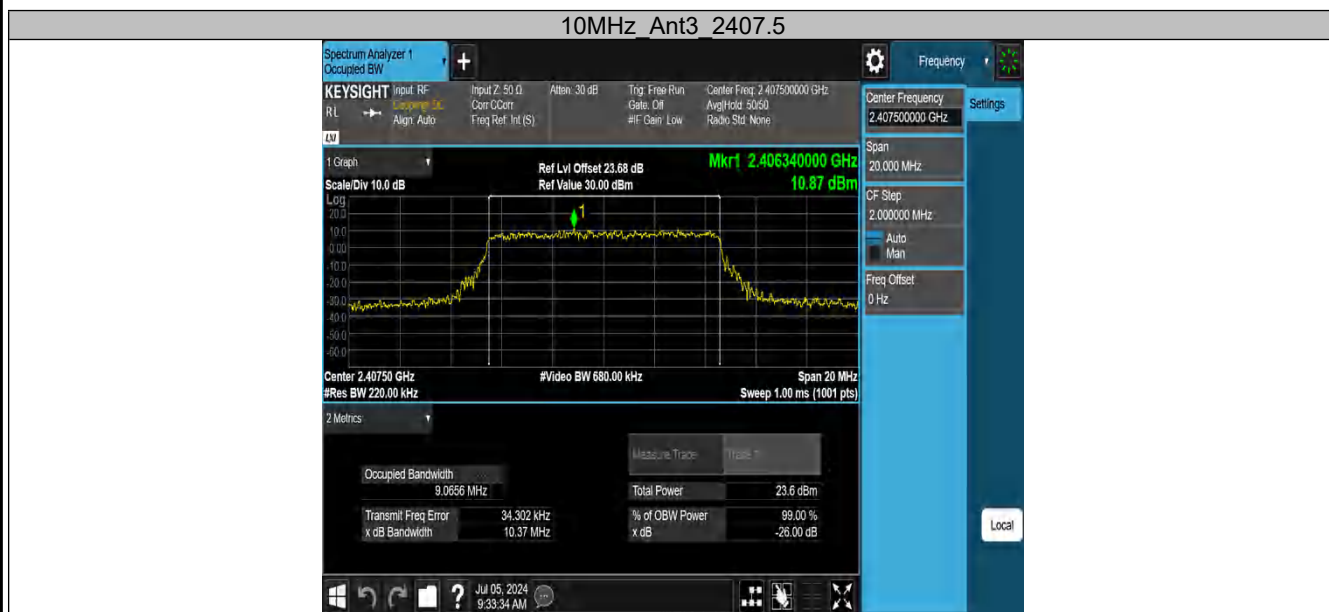
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
5MHz	Ant3	2404.5	4.3871	2402.3310	2406.7181	---	PASS
		2434.5	4.3956	2432.3164	2436.7120	---	PASS
		2469.5	4.3884	2467.3133	2471.7017	---	PASS

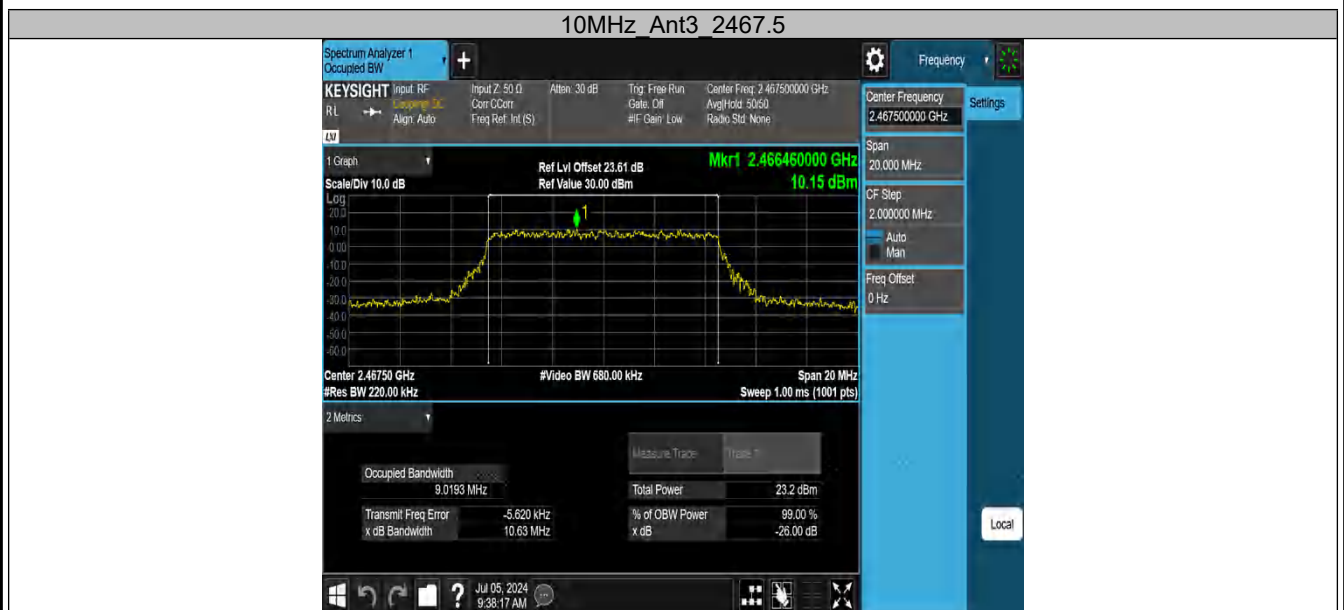




2.4GHz SDR, 10MHz BW

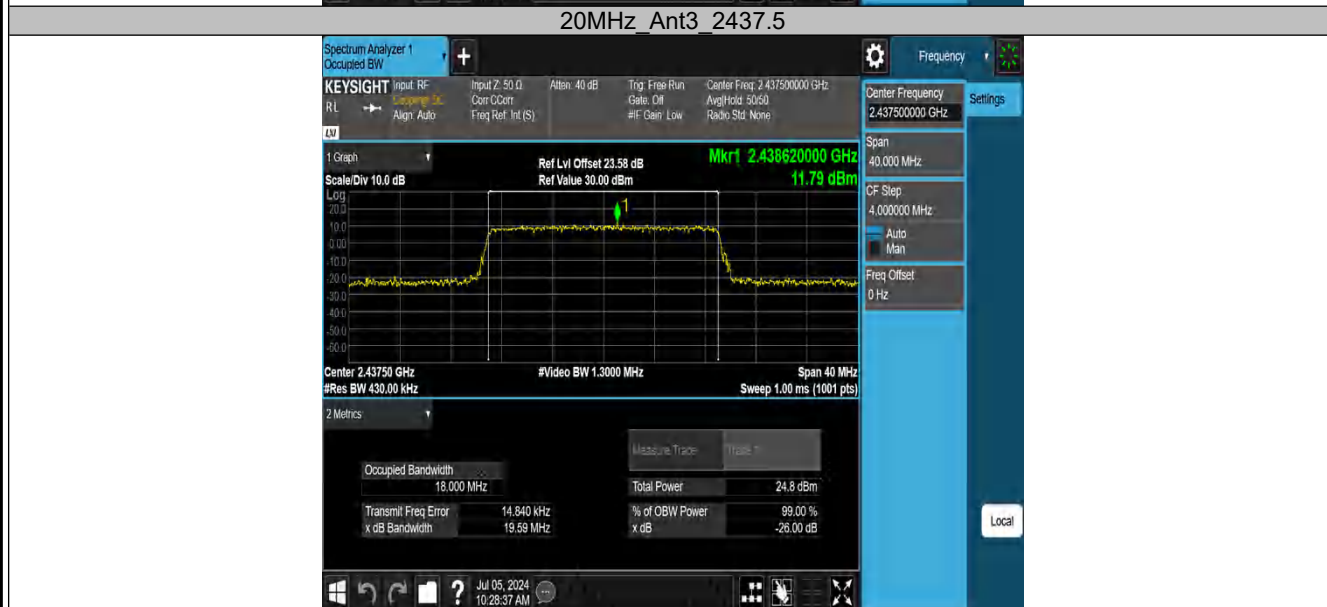
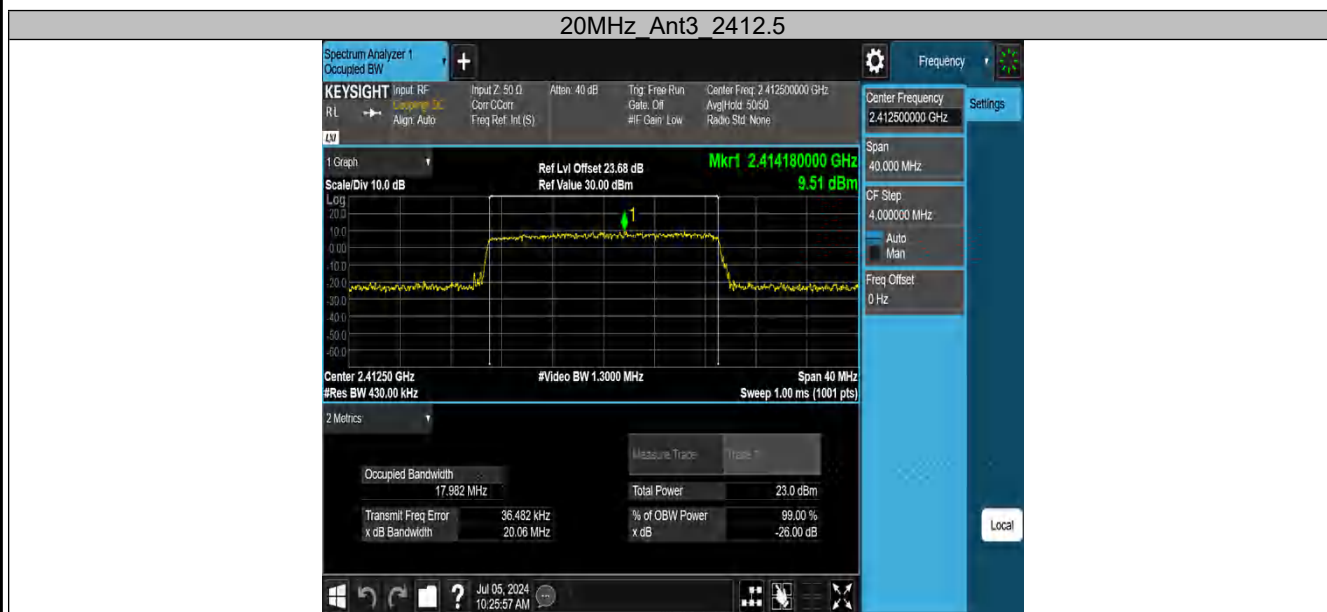
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10MHz	Ant3	2407.5	9.0656	2403.0015	2412.0671	---	PASS
		2437.5	9.0402	2432.9853	2442.0255	---	PASS
		2467.5	9.0193	2462.9847	2472.0040	---	PASS

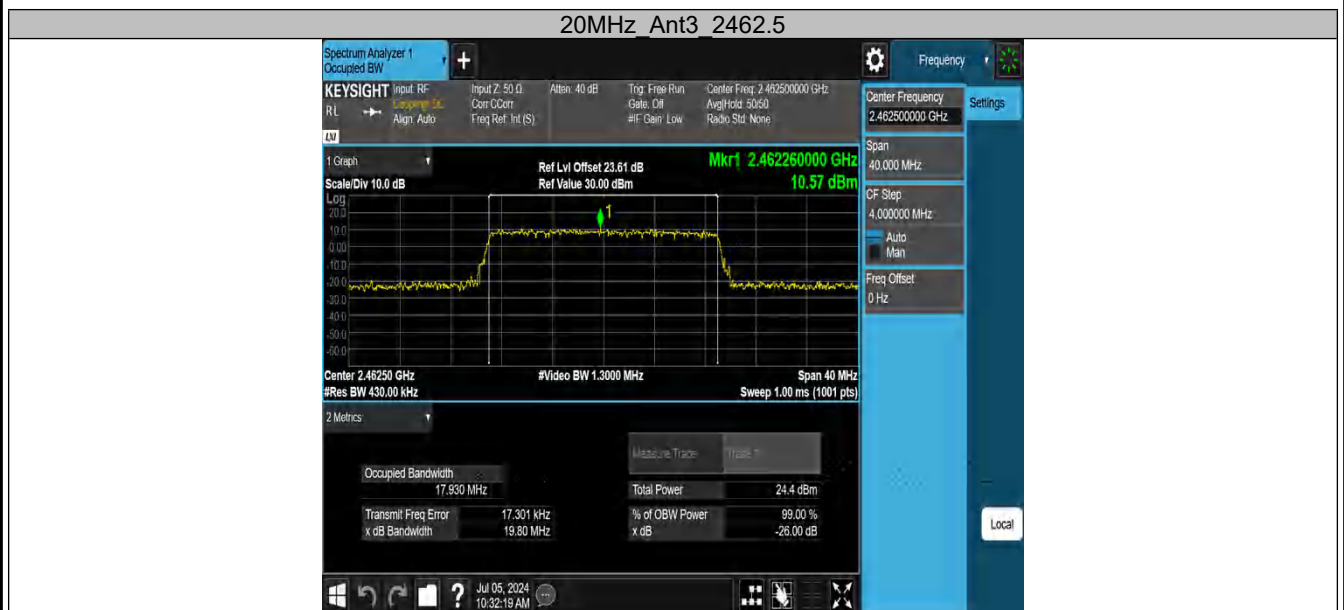




2.4GHz SDR, 20MHz BW

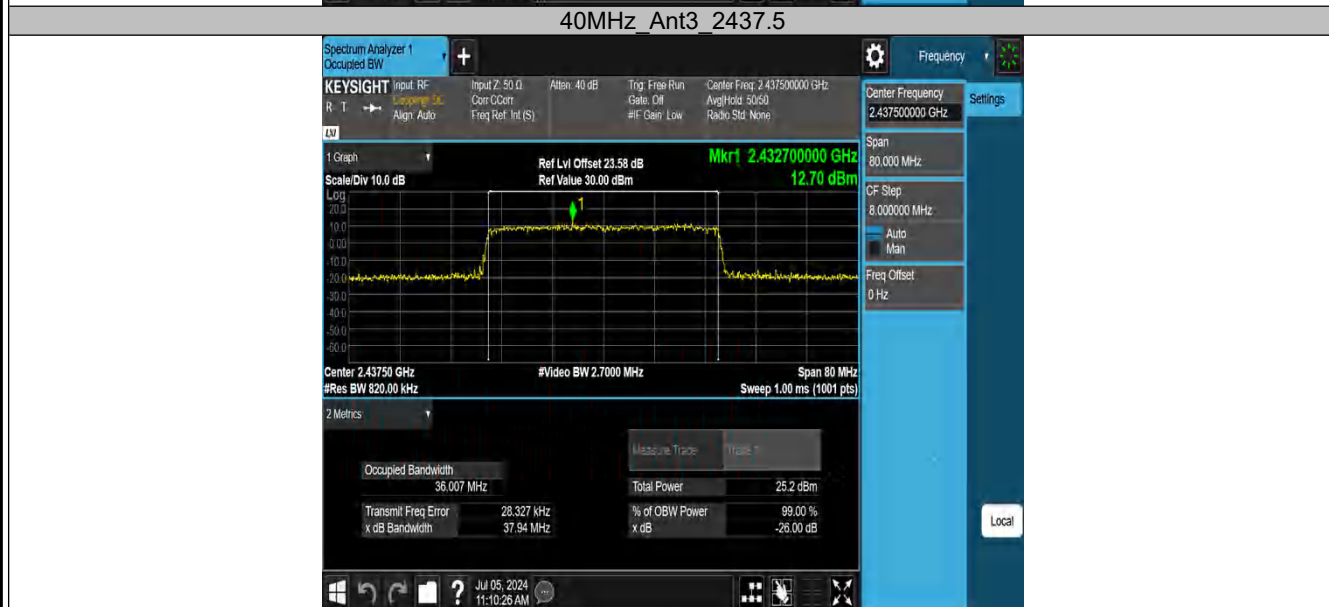
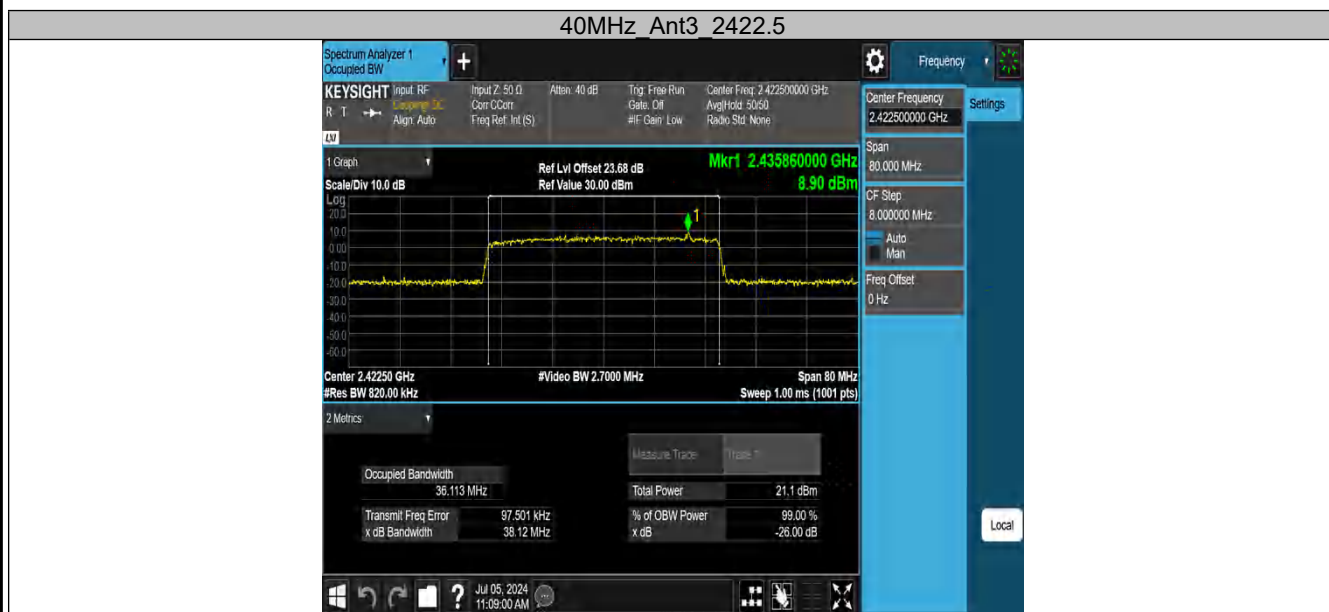
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20MHz	Ant3	2412.5	17.982	2403.5455	2421.5275	---	PASS
		2437.5	18.000	2428.5148	2446.5148	---	PASS
		2462.5	17.930	2453.5523	2471.4823	---	PASS

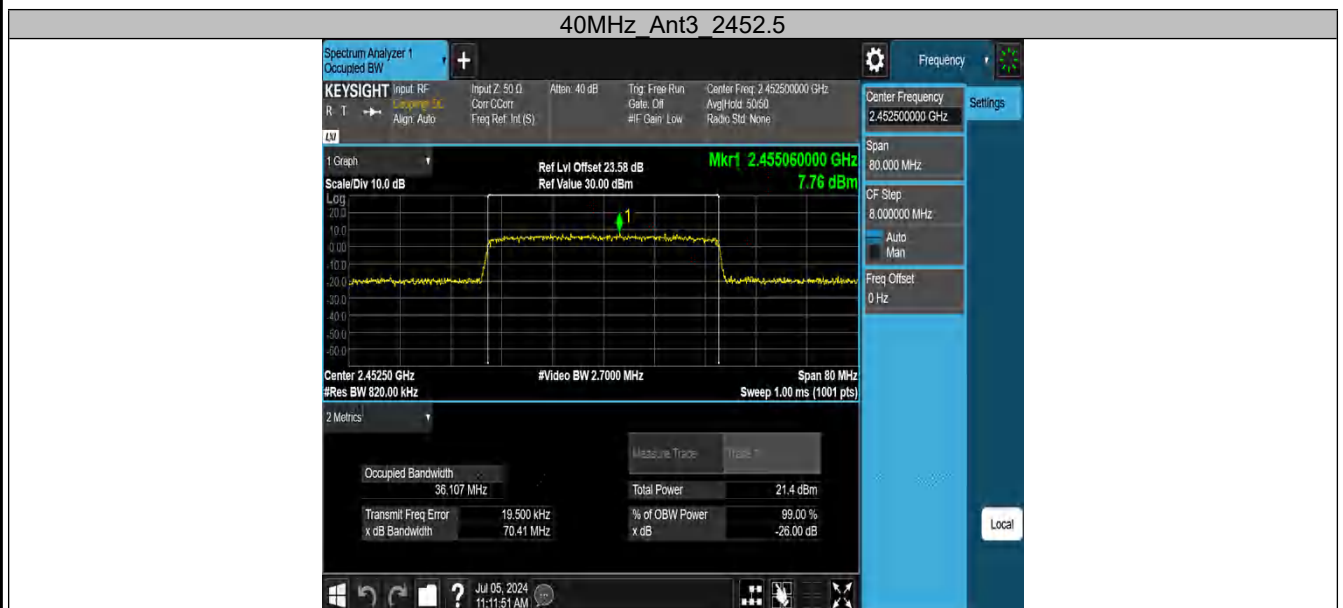




2.4GHz SDR, 40MHz BW

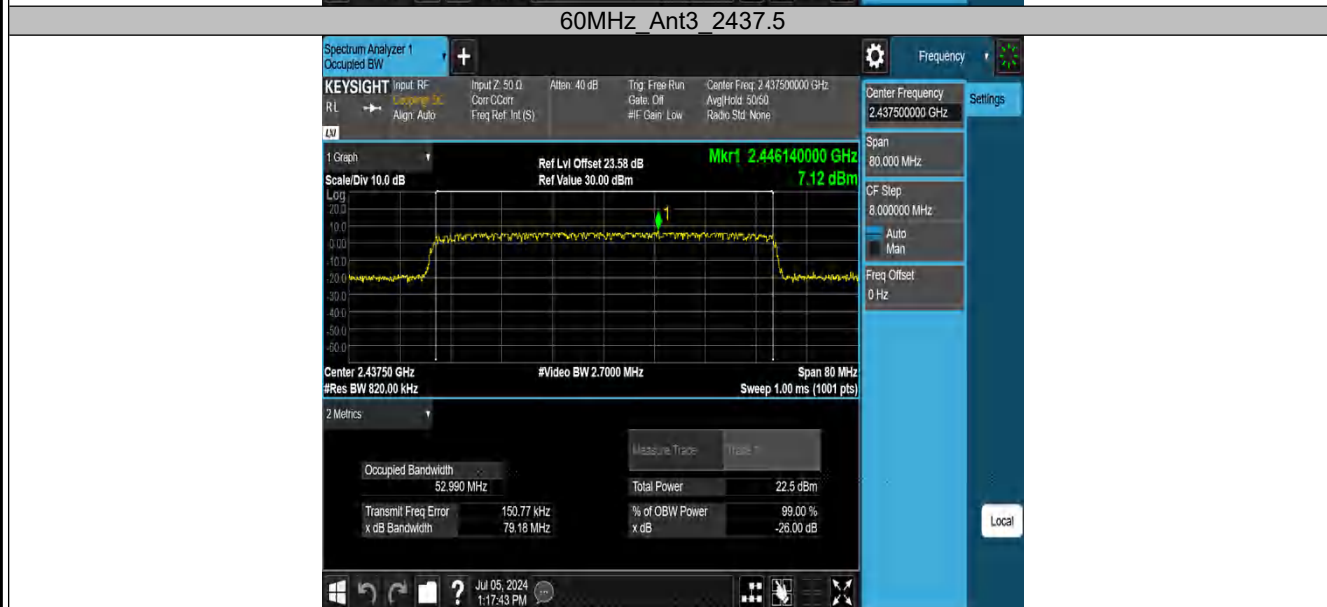
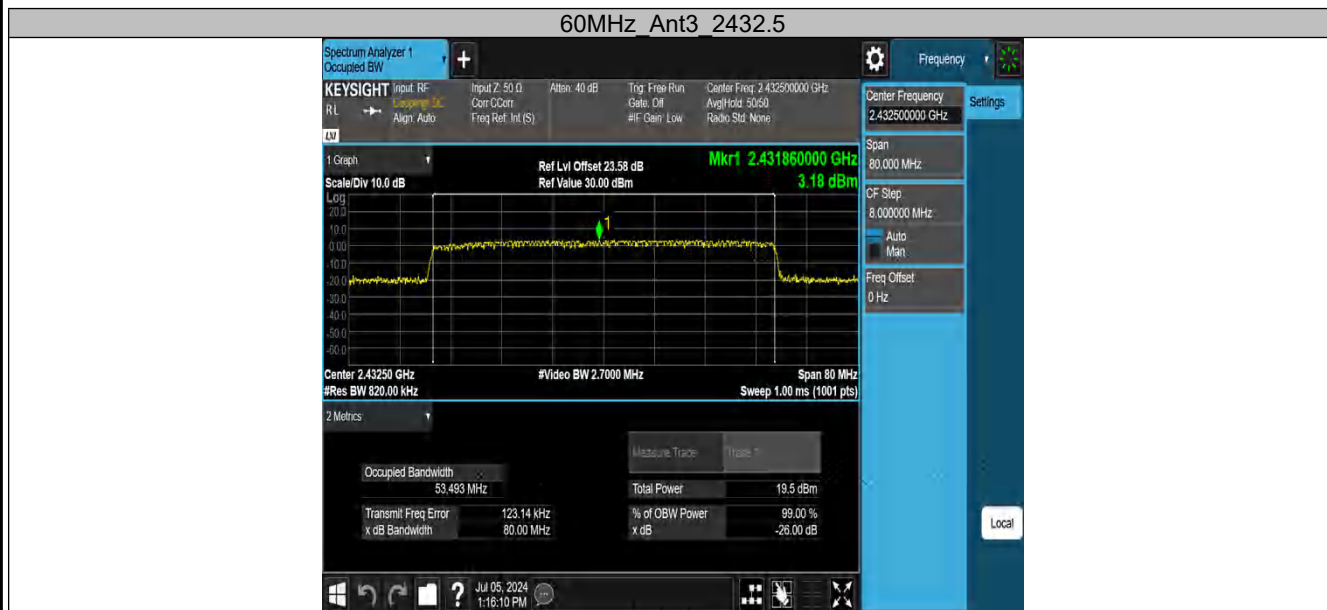
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40MHz	Ant3	2422.5	36.113	2404.5410	2440.6540	---	PASS
		2437.5	36.007	2419.5248	2455.5318	---	PASS
		2452.5	36.107	2434.4660	2470.5730	---	PASS

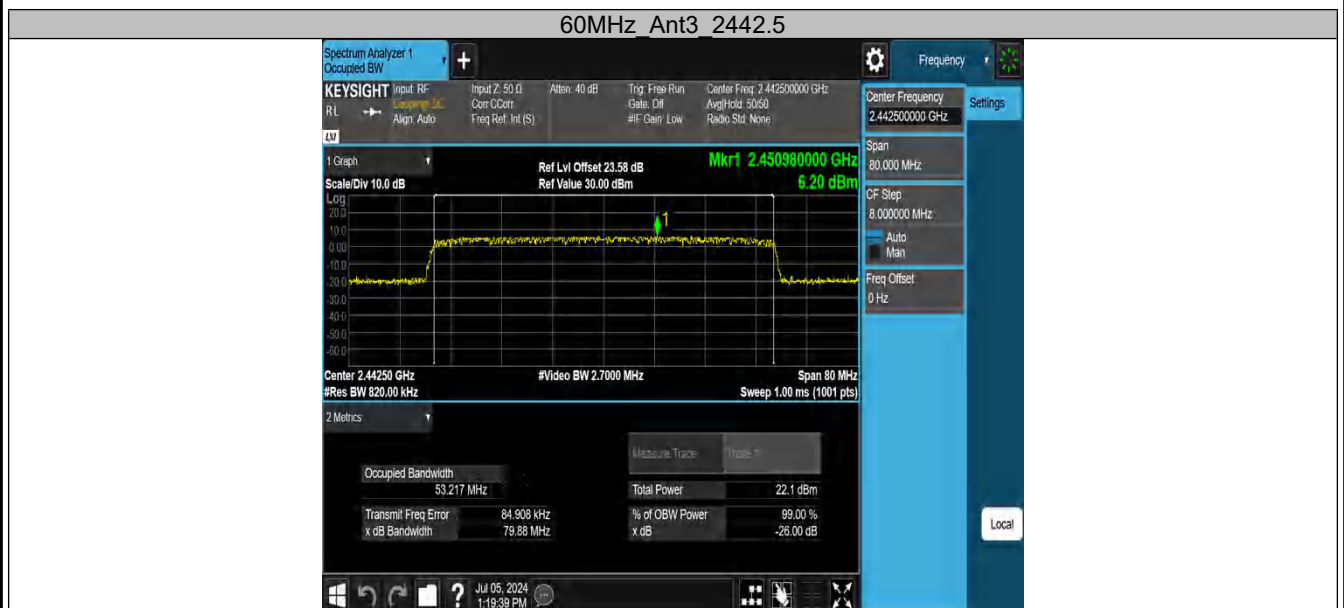




2.4GHz SDR, 60MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
60MHz	Ant3	2432.5	53.493	2405.8766	2459.3696	---	PASS
		2437.5	52.990	2411.1558	2464.1458	---	PASS
		2442.5	53.217	2415.9764	2469.1934	---	PASS





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

Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (ANT3) was presented in this report.

Bandedge

2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
1.4MHz	Ant3	Low	2403.5	22.32	-35.10	≤-7.68	PASS
		High	2469.12	22.38	-37.97	≤-7.62	PASS

1.4MHz_Ant3_Low_2403.5



1.4MHz_Ant3_High_2469.12



2.4GHz SDR, 3MHz BW

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
3MHz	Ant3	Low	2405.5	19.32	-36.80	≤-10.68	PASS
		High	2468.2	20.89	-37.85	≤-9.11	PASS



2.4GHz SDR, 5MHz BW

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
5MHz	Ant3	Low	2404.5	17.91	-21.03	≤-12.09	PASS
		High	2469.5	18.63	-38.00	≤-11.37	PASS



2.4GHz SDR, 10MHz BW

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
10MHz	Ant3	Low	2407.5	14.82	-23.50	≤-15.18	PASS
		High	2467.5	13.61	-39.09	≤-16.39	PASS

10MHz Ant3 Low 2407.5



10MHz Ant3 High 2467.5



2.4GHz SDR, 20MHz BW

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
20MHz	Ant3	Low	2412.5	12.62	-26.65	≤-17.38	PASS
		High	2462.5	13.50	-37.93	≤-16.50	PASS

20MHz Ant3 Low 2412.5



20MHz Ant3 High 2462.5



2.4GHz SDR, 40MHz BW

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
40MHz	Ant3	Low	2422.5	8.75	-33.01	≤-21.25	PASS
		High	2452.5	10.00	-37.30	≤-20.00	PASS

40MHz Ant3 Low 2422.5



40MHz Ant3 High 2452.5



2.4GHz SDR, 60MHz BW

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
60MHz	Ant3	Low	2432.5	5.48	-28.43	≤-24.52	PASS
		High	2442.5	9.70	-35.06	≤-20.30	PASS

60MHz Ant3 Low 2432.5



60MHz Ant3 High 2442.5

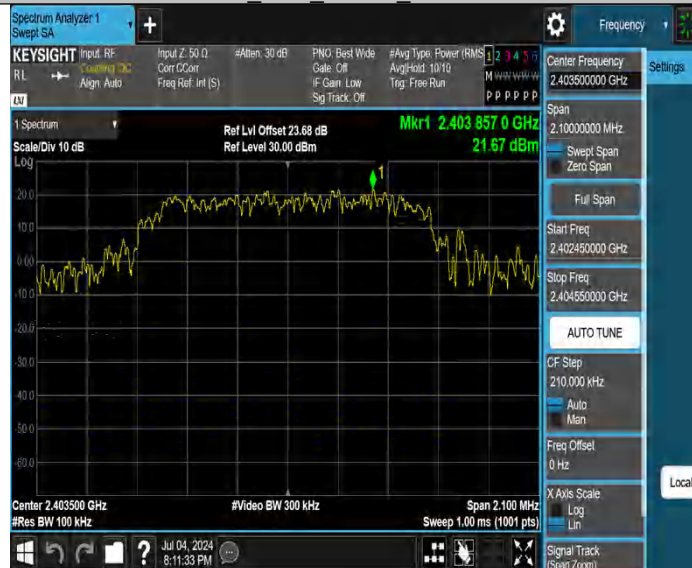


Conducted Spurious Emission

2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
1.4MHz	Ant3	2403.5	Reference	21.67	21.67	---	PASS
			30~1000	21.67	-35.82	≤-8.33	PASS
			1000~26500	21.67	-26.99	≤-8.33	PASS
		2435.5	Reference	20.91	20.91	---	PASS
			30~1000	20.91	-35.87	≤-9.09	PASS
			1000~26500	20.91	-26.56	≤-9.09	PASS
		2469.12	Reference	21.71	21.71	---	PASS
			30~1000	21.71	-35.24	≤-8.29	PASS
			1000~26500	21.71	-26.69	≤-8.29	PASS

1.4MHz_Ant3_2403.5_0~Reference



1.4MHz_Ant3_2403.5_30~1000



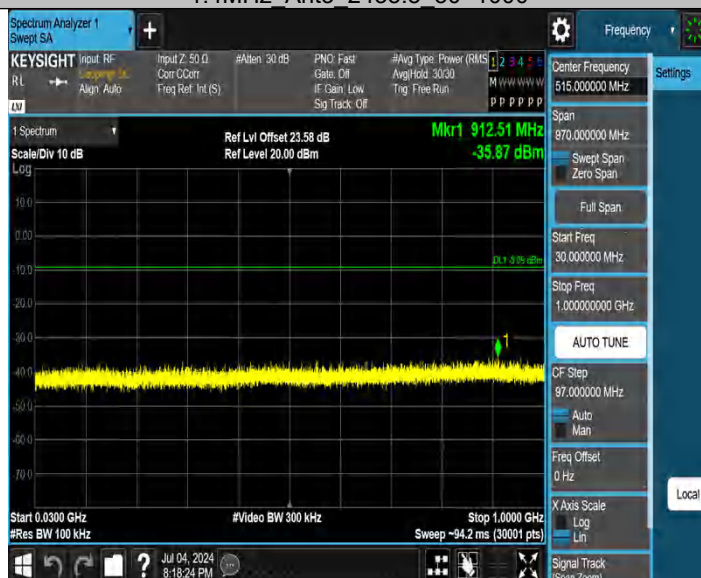
1.4MHz_Ant3_2403.5_1000~26500



1.4MHz_Ant3_2435.5_0~Reference



1.4MHz Ant3 2435.5 30~1000



1.4MHz Ant3 2435.5 1000~26500



1.4MHz Ant3 2469.12 0~Reference



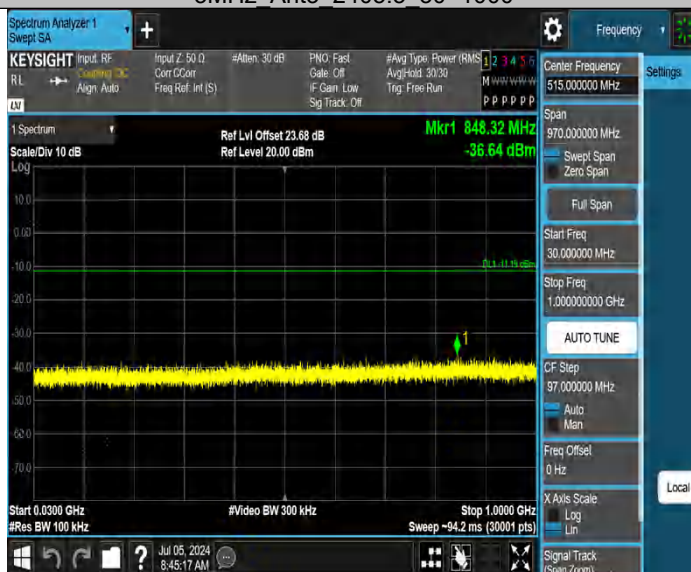
2.4GHz SDR, 3MHz BW

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
3MHz	Ant3	2405.5	Reference	18.81	18.81	---	PASS
			30~1000	18.81	-36.64	≤-11.19	PASS
			1000~26500	18.81	-28.25	≤-11.19	PASS
		2435.5	Reference	19.67	19.67	---	PASS
			30~1000	19.67	-37.01	≤-10.33	PASS
			1000~26500	19.67	-27.62	≤-10.33	PASS
		2468.2	Reference	19.35	19.35	---	PASS
			30~1000	19.35	-36.87	≤-10.65	PASS
			1000~26500	19.35	-27.39	≤-10.65	PASS

3MHz_Ant3_2405.5_0~Reference



3MHz_Ant3_2405.5_30~1000



3MHz_Ant3_2405.5_1000~26500



3MHz_Ant3_2435.5_0~Reference





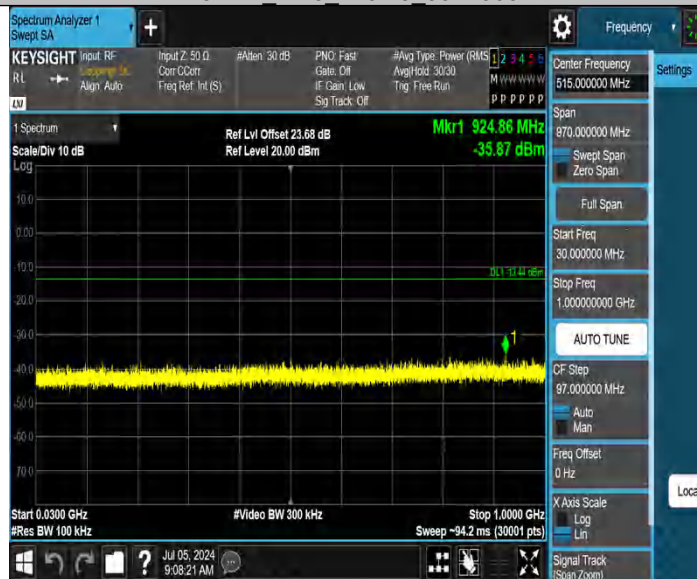
2.4GHz SDR, 5MHz BW

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
5MHz	Ant3	2404.5	Reference	16.56	16.56	---	PASS
			30~1000	16.56	-35.87	≤-13.44	PASS
			1000~26500	16.56	-27.46	≤-13.44	PASS
		2434.5	Reference	16.48	16.48	---	PASS
			30~1000	16.48	-36.06	≤-13.52	PASS
			1000~26500	16.48	-26.79	≤-13.52	PASS
		2469.5	Reference	16.84	16.84	---	PASS
			30~1000	16.84	-36.82	≤-13.16	PASS
			1000~26500	16.84	-27.22	≤-13.16	PASS

5MHz_Ant3_2404.5_0~Reference



5MHz_Ant3_2404.5_30~1000



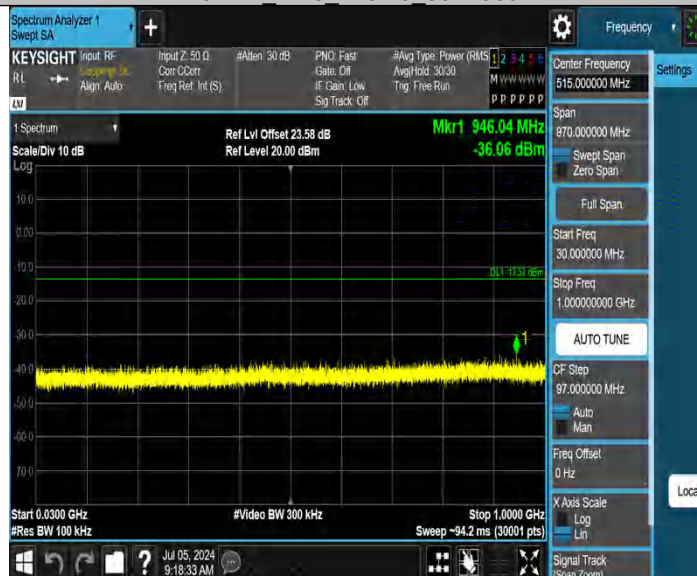
5MHz_Ant3_2404.5_1000~26500



5MHz_Ant3_2434.5_0~Reference



5MHz_Ant3_2434.5_30~1000



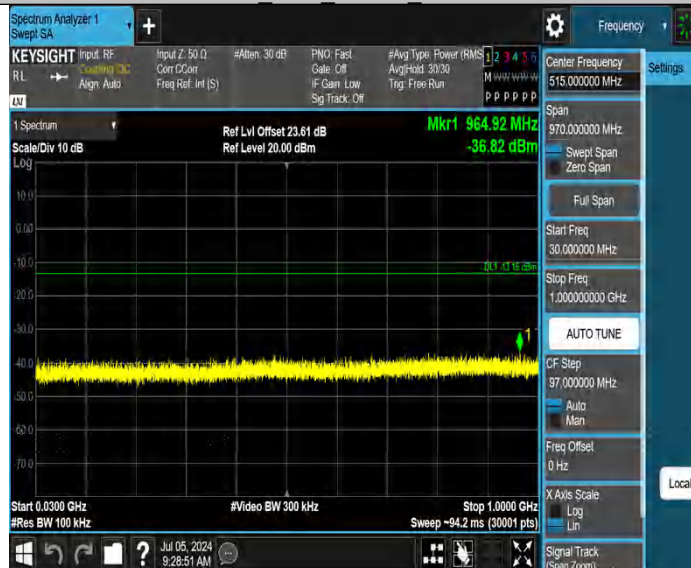
5MHz_Ant3_2434.5_1000~26500



5MHz Ant3 2469.5 0~Reference



5MHz Ant3 2469.5 30~1000



5MHz Ant3 2469.5 1000~26500



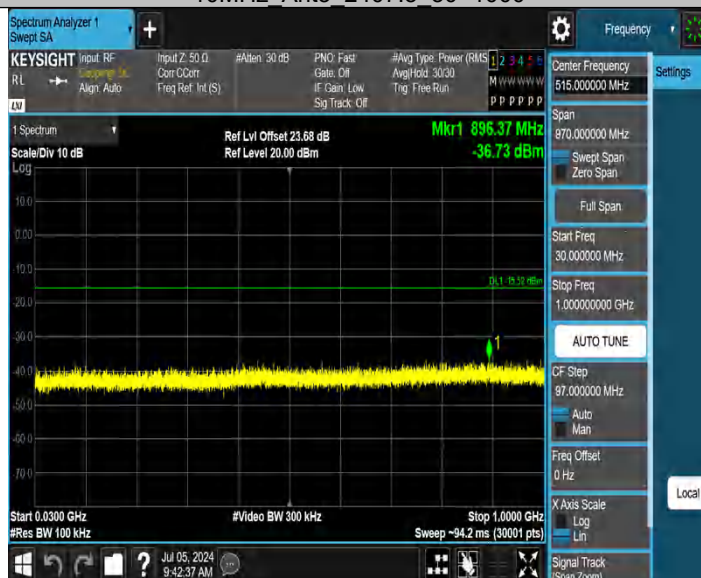
2.4GHz SDR, 10MHz BW

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
10MHz	Ant3	2407.5	Reference	14.48	14.48	---	PASS
			30~1000	14.48	-36.73	≤-15.52	PASS
			1000~26500	14.48	-27.17	≤-15.52	PASS
		2437.5	Reference	14.94	14.94	---	PASS
			30~1000	14.94	-36.74	≤-15.06	PASS
			1000~26500	14.94	-27.03	≤-15.06	PASS
		2467.5	Reference	12.68	12.68	---	PASS
			30~1000	12.68	-36.63	≤-17.32	PASS
			1000~26500	12.68	-27.04	≤-17.32	PASS

10MHz Ant3 2407.5 0~Reference



10MHz Ant3 2407.5 30~1000



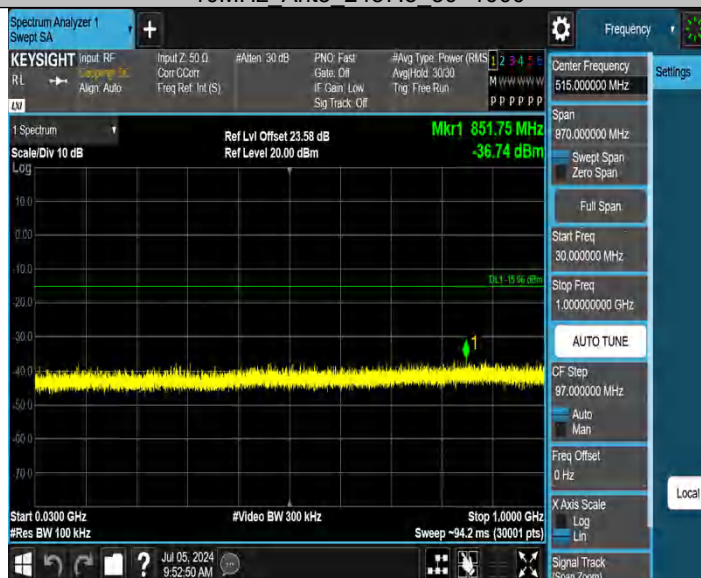
10MHz Ant3 2407.5 1000~26500



10MHz Ant3 2437.5 0~Reference



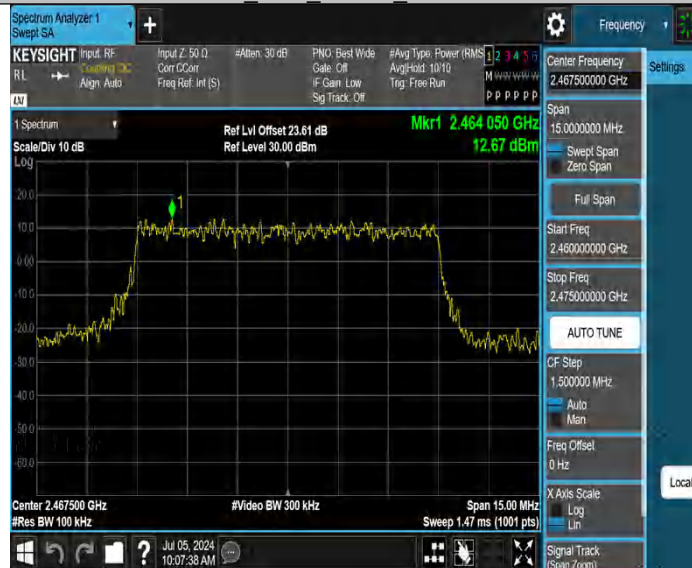
10MHz Ant3 2437.5 30~1000



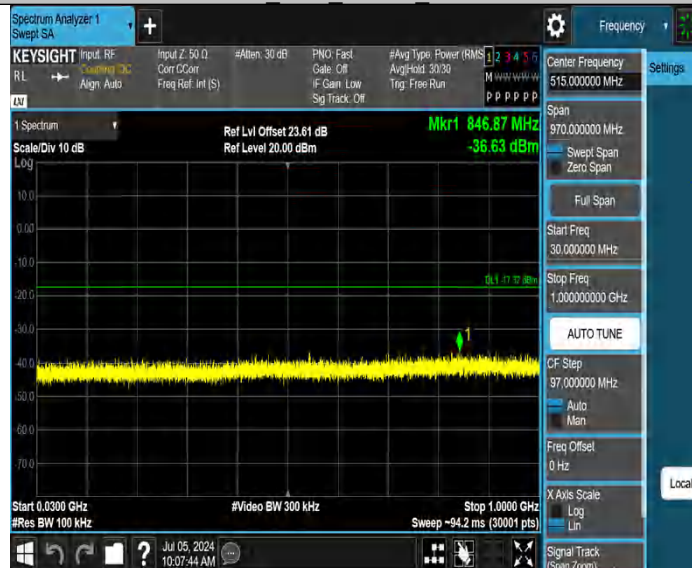
10MHz Ant3 2437.5 1000~26500



10MHz Ant3 2467.5 0~Reference



10MHz Ant3 2467.5 30~1000



10MHz Ant3 2467.5 1000~26500



2.4GHz SDR, 20MHz BW

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
20MHz	Ant3	2412.5	Reference	11.56	11.56	---	PASS
			30~1000	11.56	-35.86	≤-18.44	PASS
			1000~26500	11.56	-26.96	≤-18.44	PASS
		2437.5	Reference	12.14	12.14	---	PASS
			30~1000	12.14	-36.63	≤-17.86	PASS
			1000~26500	12.14	-26.5	≤-17.86	PASS
		2462.5	Reference	11.86	11.86	---	PASS
			30~1000	11.86	-36.39	≤-18.14	PASS
			1000~26500	11.86	-26.93	≤-18.14	PASS

20MHz Ant3 2412.5 0~Reference



20MHz Ant3 2412.5 30~1000



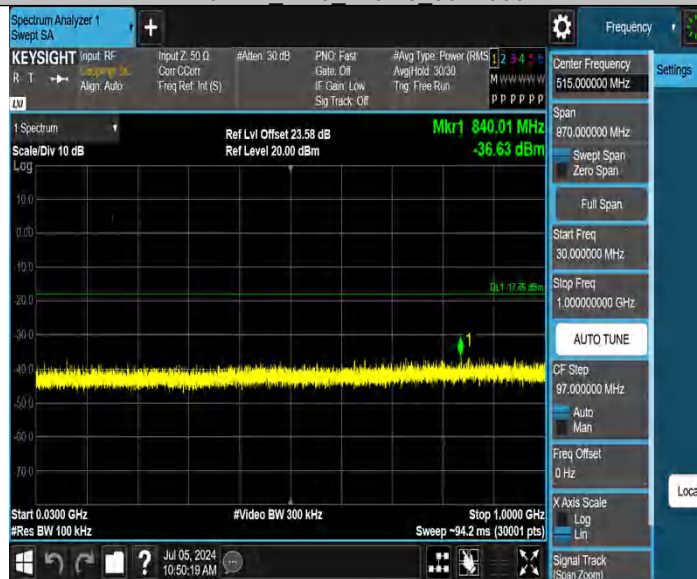
20MHz Ant3 2412.5 1000~26500



20MHz Ant3 2437.5 0~Reference



20MHz Ant3 2437.5 30~1000



20MHz Ant3 2437.5 1000~26500



20MHz Ant3 2462.5 0~Reference



20MHz Ant3 2462.5 30~1000



20MHz Ant3 2462.5 1000~26500



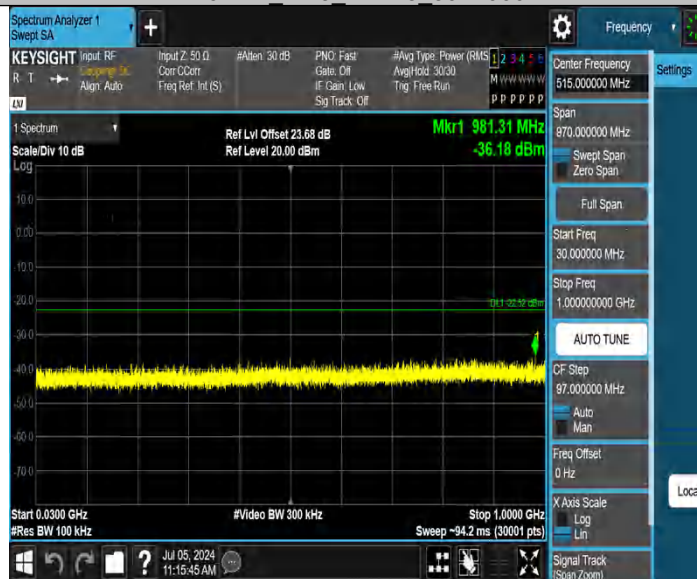
2.4GHz SDR, 40MHz BW

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
40MHz	Ant3	2422.5	Reference	7.48	7.48	---	PASS
			30~1000	7.48	-36.18	≤-22.52	PASS
			1000~26500	7.48	-27.37	≤-22.52	PASS
		2437.5	Reference	13.10	13.10	---	PASS
			30~1000	13.10	-36.44	≤-16.9	PASS
			1000~26500	13.10	-26.61	≤-16.9	PASS
		2452.5	Reference	9.23	9.23	---	PASS
			30~1000	9.23	-36.75	≤-20.77	PASS
			1000~26500	9.23	-27.19	≤-20.77	PASS

40MHz Ant3 2422.5 0~Reference



40MHz Ant3 2422.5 30~1000



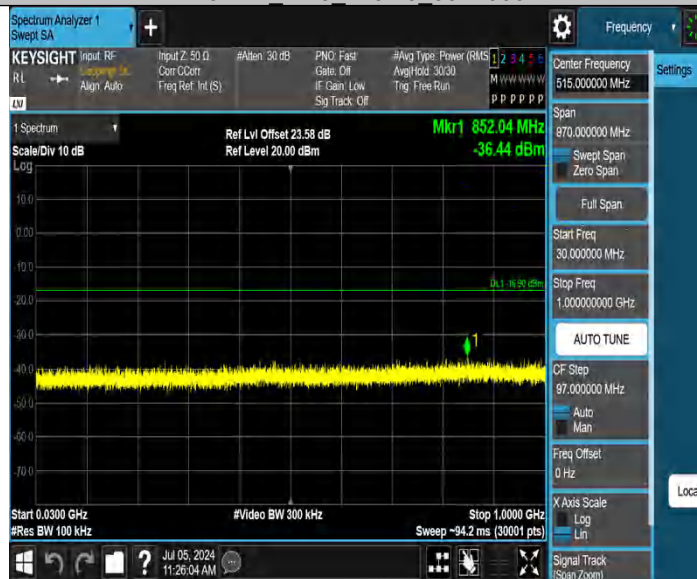
40MHz Ant3 2422.5 1000~26500



40MHz Ant3 2437.5 0~Reference



40MHz Ant3 2437.5 30~1000



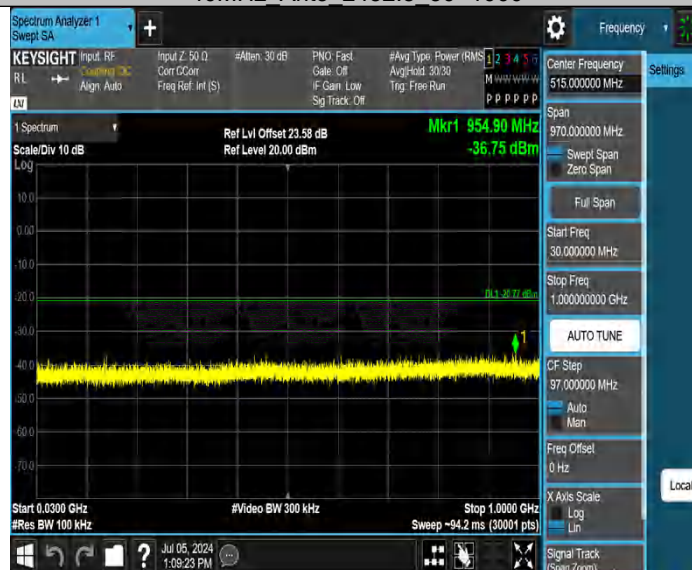
40MHz Ant3 2437.5 1000~26500



40MHz Ant3 2452.5 0~Reference



40MHz Ant3 2452.5 30~1000



40MHz Ant3 2452.5 1000~26500



2.4GHz SDR, 60MHz BW

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
60MHz	Ant3	2432.5	Reference	6.17	6.17	---	PASS
			30~1000	6.17	-37.11	≤-23.83	PASS
			1000~26500	6.17	-27.37	≤-23.83	PASS
		2437.5	Reference	6.62	6.62	---	PASS
			30~1000	6.62	-35.1	≤-23.38	PASS
			1000~26500	6.62	-27.17	≤-23.38	PASS
		2442.5	Reference	7.42	7.42	---	PASS
			30~1000	7.42	-36.34	≤-22.58	PASS
			1000~26500	7.42	-27.13	≤-22.58	PASS

60MHz Ant3 2432.5 0~Reference



60MHz Ant3 2432.5 30~1000



60MHz Ant3 2432.5 1000~26500



60MHz Ant3 2437.5 0~Reference



60MHz Ant3 2437.5 30~1000



60MHz Ant3 2437.5 1000~26500



60MHz Ant3 2442.5 0~Reference



60MHz Ant3 2442.5 30~1000



60MHz Ant3 2442.5 1000~26500



Appendix A.5: Test Results of Radiated Spurious Emissions

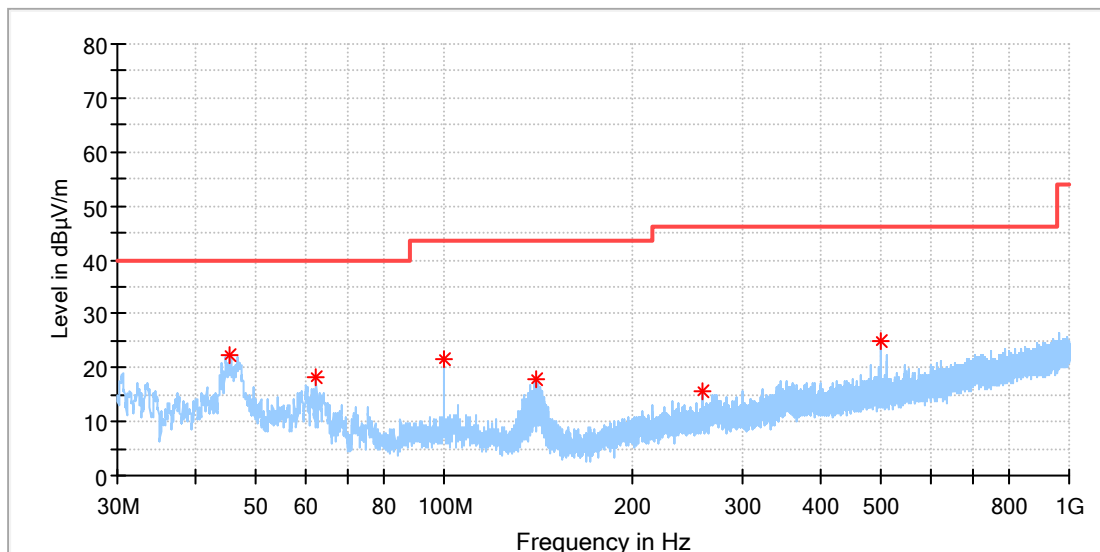
Note:

- 1) This testing was carried out on SISO mode and MIMO mode, but only the worst case (MIMO) was presented in this report.
- 2) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 3) 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:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_1.4M_2435.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

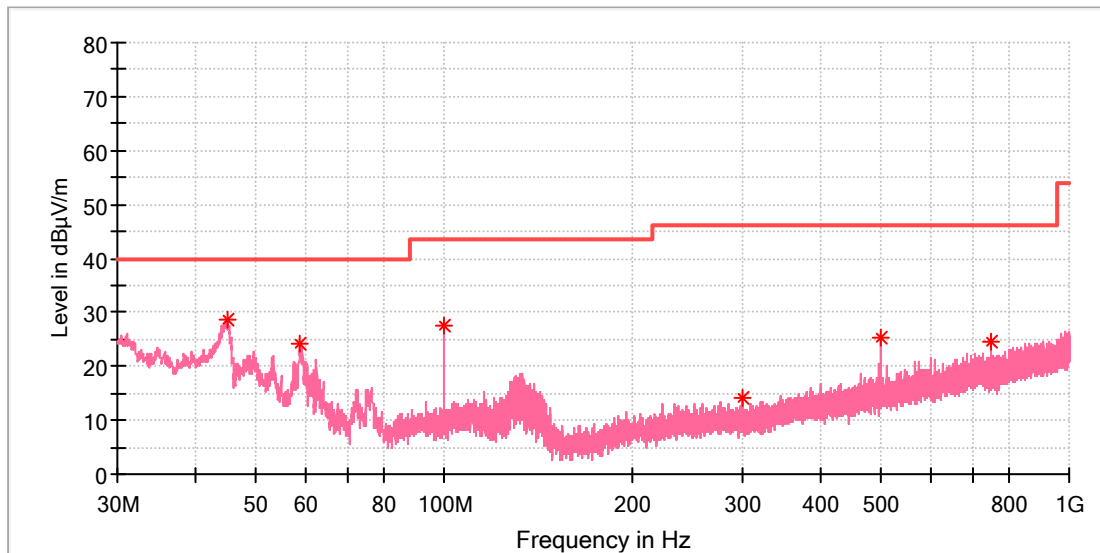
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.482692	22.25	40.00	17.75	100.0	H	0.0	-19.1
62.495000	18.26	40.00	21.74	100.0	H	269.0	-19.9
100.026539	21.61	43.50	21.89	100.0	H	0.0	-19.3
140.617308	17.82	43.50	25.68	100.0	H	58.0	-22.6
259.815385	15.74	46.00	30.26	100.0	H	307.0	-17.5
500.002308	24.79	46.00	21.22	100.0	H	103.0	-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:	SDR 2.4G_1.4M_2435.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.109615	28.81	40.00	11.19	100.0	V	264.0	-19.1
58.876154	24.31	40.00	15.69	100.0	V	316.0	-19.2
99.989231	27.63	43.50	15.87	100.0	V	301.0	-19.3
299.995769	13.98	46.00	32.02	100.0	V	30.0	-16.6
500.002308	25.41	46.00	20.59	100.0	V	113.0	-12.2
750.038462	24.61	46.00	21.39	100.0	V	211.0	-7.6

Final Result

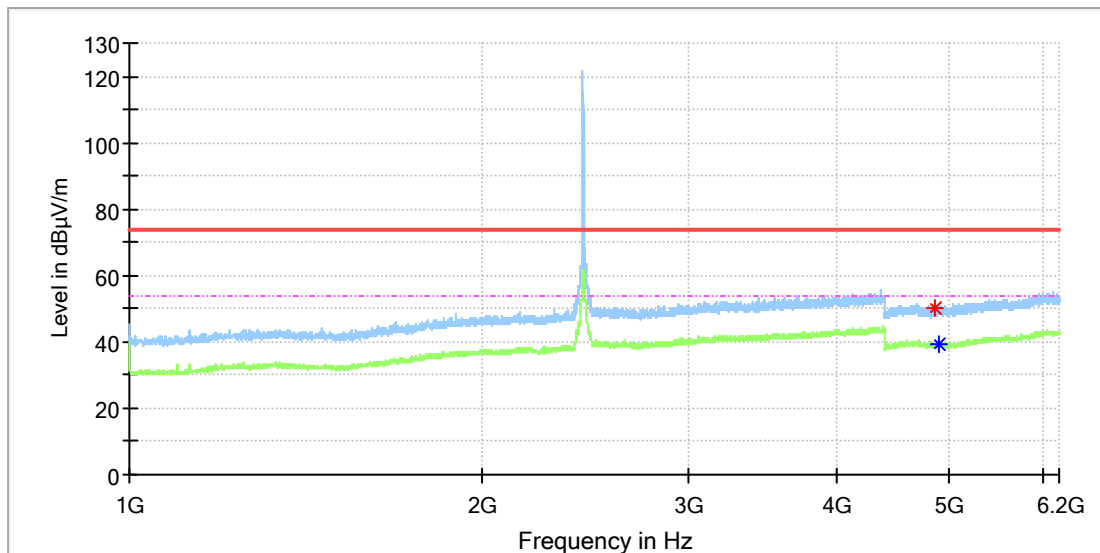
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is 2.4GHz SDR Fundamental.

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_1.4M_2435.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

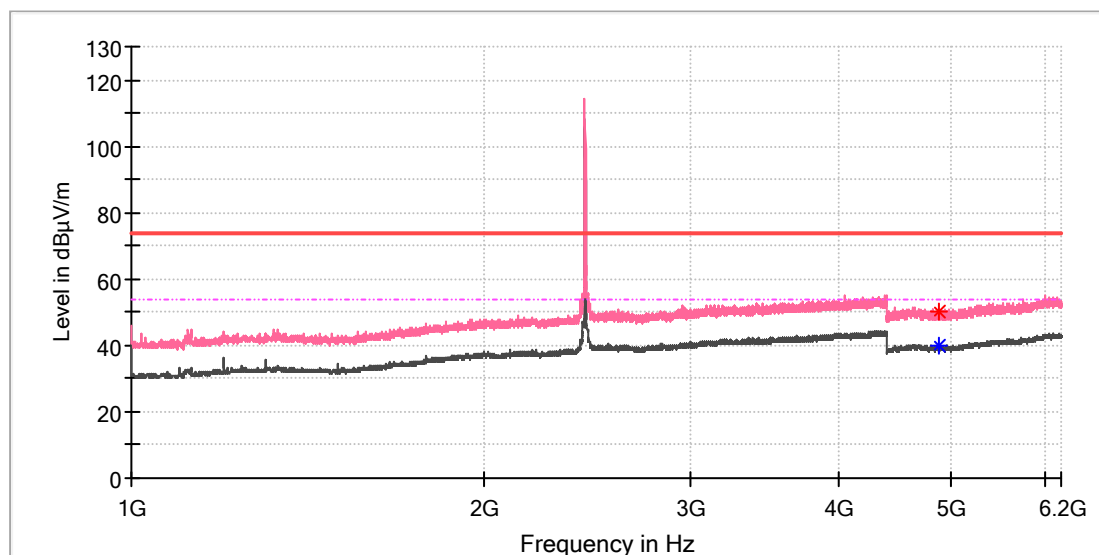
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4860.500000	50.02	---	74.00	23.98	150.0	H	343.0	11.8
4897.500000	---	39.58	54.00	14.42	150.0	H	359.0	11.8

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:	SDR 2.4G_1.4M_2435.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

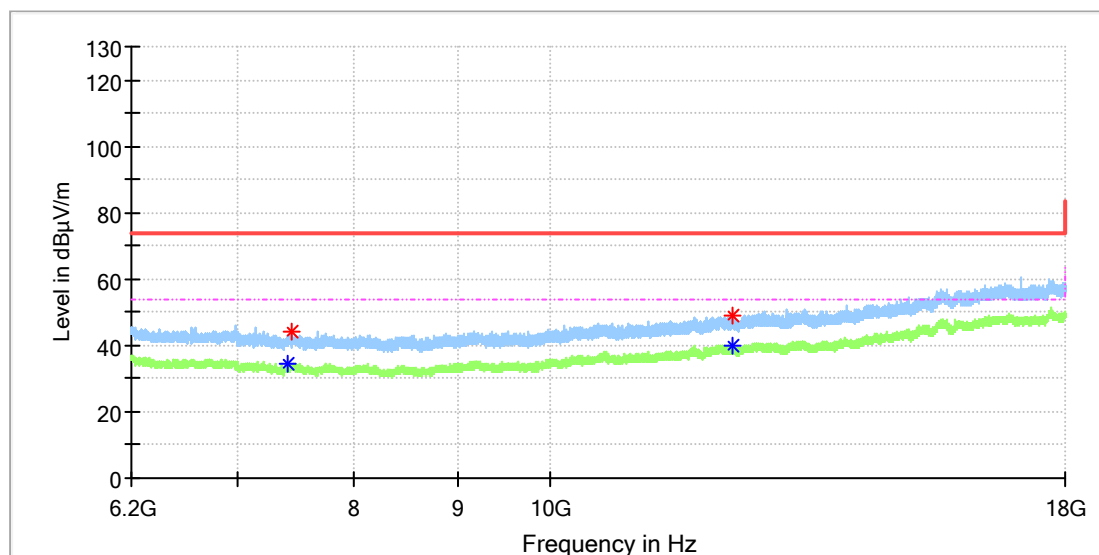
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4871.000000	---	39.78	54.00	14.22	150.0	V	338.0	11.8
4878.000000	50.42	---	74.00	23.58	150.0	V	217.0	11.8

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:	SDR 2.4G_1.4M_2435.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

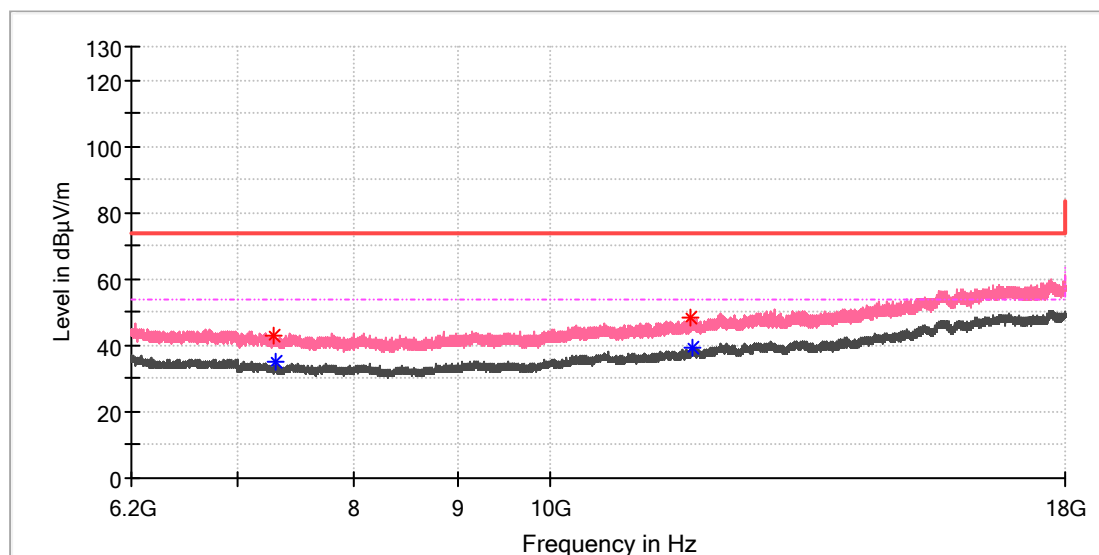
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7412.450000	---	34.25	54.00	19.75	150.0	H	97.0	8.3
7444.408333	43.85	---	74.00	30.15	150.0	H	160.0	8.5
12304.041667	---	40.02	54.00	13.98	150.0	H	84.0	14.9
12307.483333	48.78	---	74.00	25.22	150.0	H	0.0	14.9

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:	SDR 2.4G_1.4M_2435.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

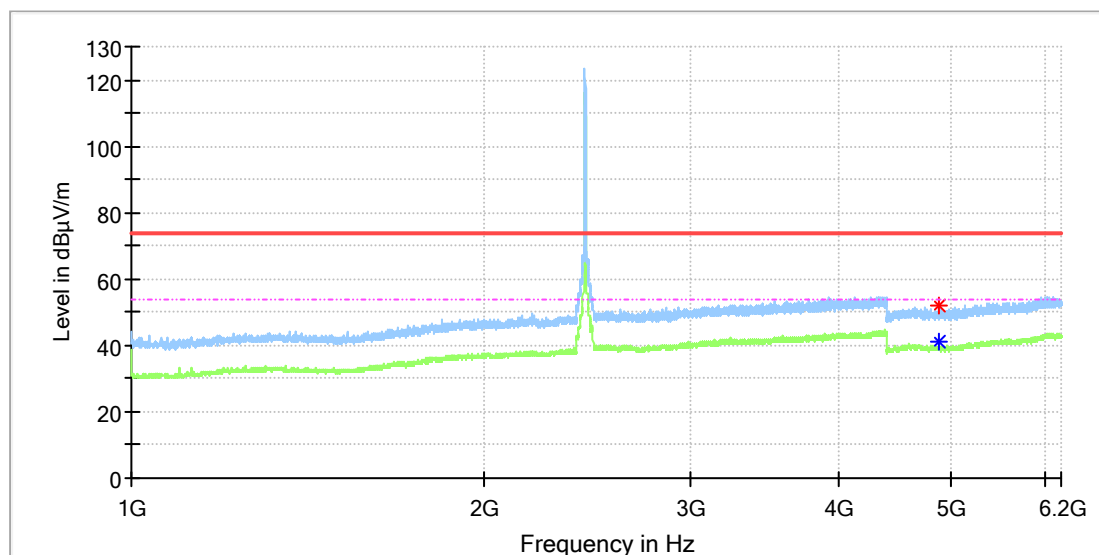
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7290.516667	43.21	---	74.00	30.79	150.0	V	0.0	8.3
7308.216667	---	35.10	54.00	18.90	150.0	V	181.0	8.2
11738.133333	48.22	---	74.00	25.78	150.0	V	218.0	13.3
11751.900000	---	39.31	54.00	14.69	150.0	V	181.0	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:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_3M_2435.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

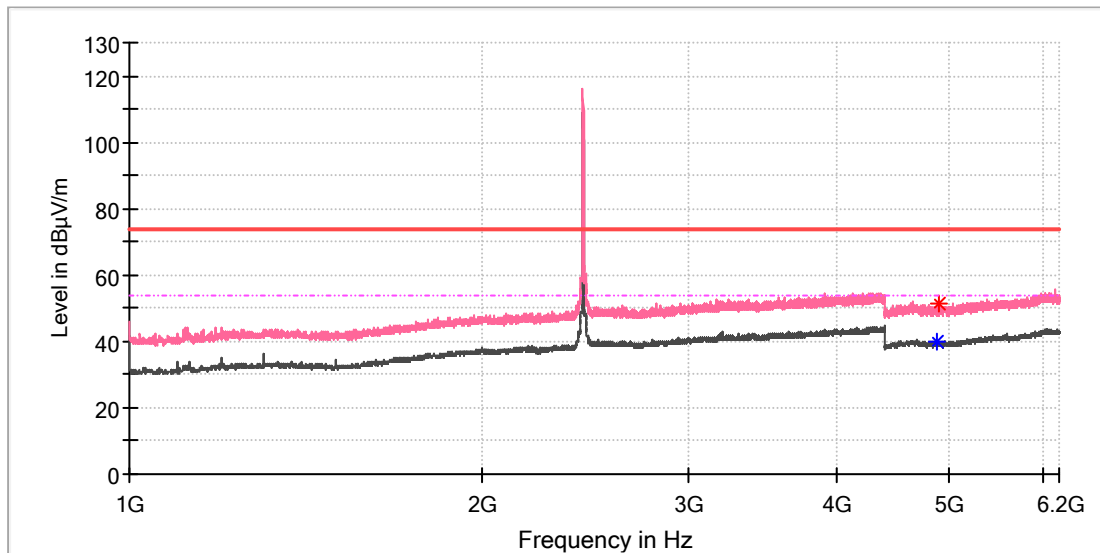
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4871.000000	52.05	---	74.00	21.95	150.0	H	95.0	11.8
4871.000000	---	41.16	54.00	12.84	150.0	H	95.0	11.8

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:	SDR 2.4G_3M_2435.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

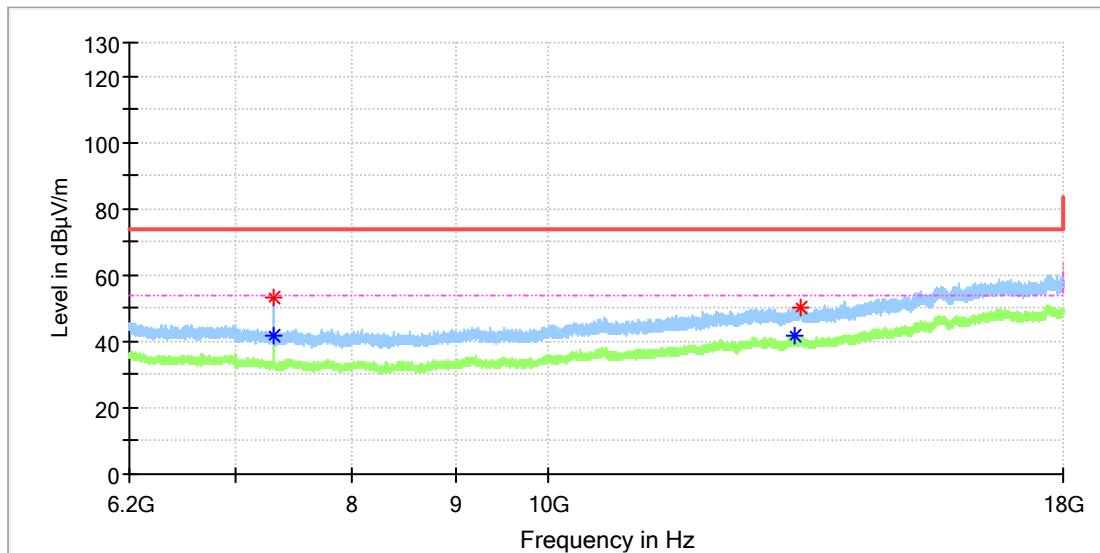
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.500000	---	39.68	54.00	14.32	150.0	V	327.0	11.8
4896.500000	51.38	---	74.00	22.62	150.0	V	357.0	11.8

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:	SDR 2.4G_3M_2435.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

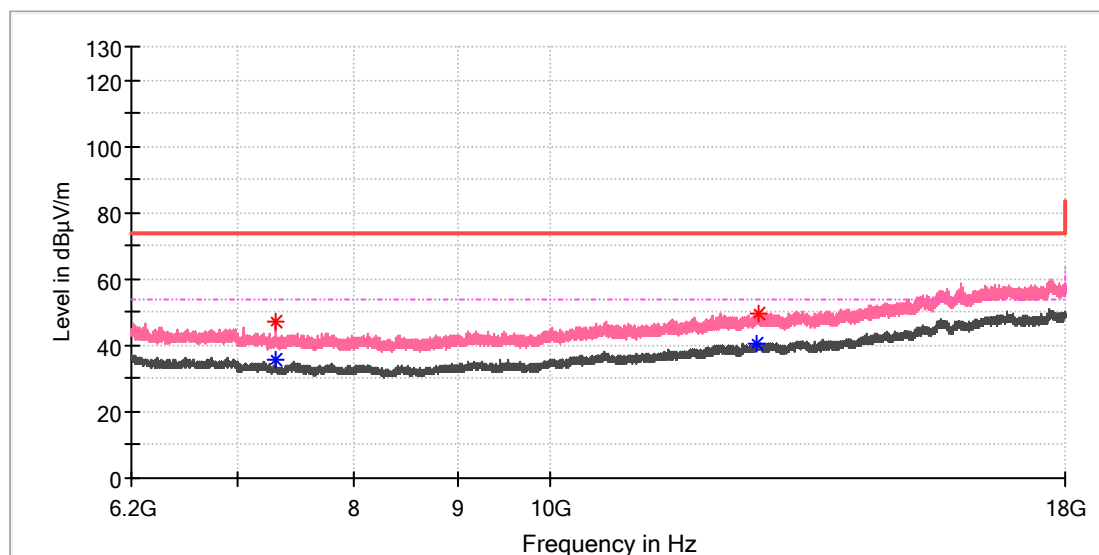
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7306.250000	---	41.53	54.00	12.47	150.0	H	44.0	8.3
7306.741667	53.15	---	74.00	20.85	150.0	H	4.0	8.3
13262.791667	---	41.58	54.00	12.42	150.0	H	227.0	15.5
13325.233333	50.33	---	74.00	23.67	150.0	H	165.0	15.5

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:	SDR 2.4G_3M_2435.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

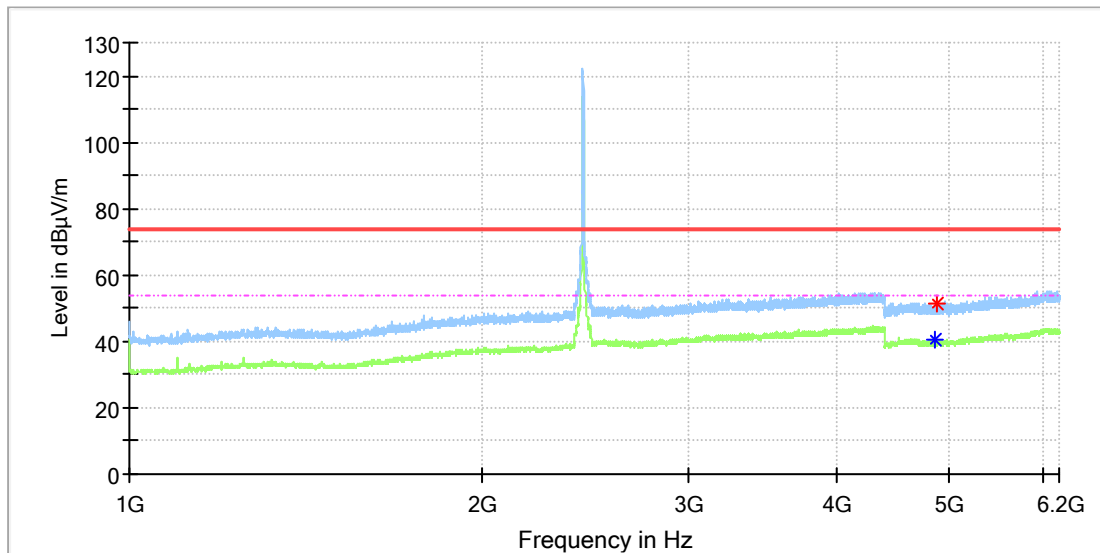
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7305.266667	47.42	---	74.00	26.58	150.0	V	0.0	8.3
7306.250000	---	35.93	54.00	18.07	150.0	V	2.0	8.3
12655.091667	---	40.59	54.00	13.41	150.0	V	302.0	15.0
12670.825000	49.81	---	74.00	24.19	150.0	V	193.0	15.1

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:	SDR 2.4G_5M_2434.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

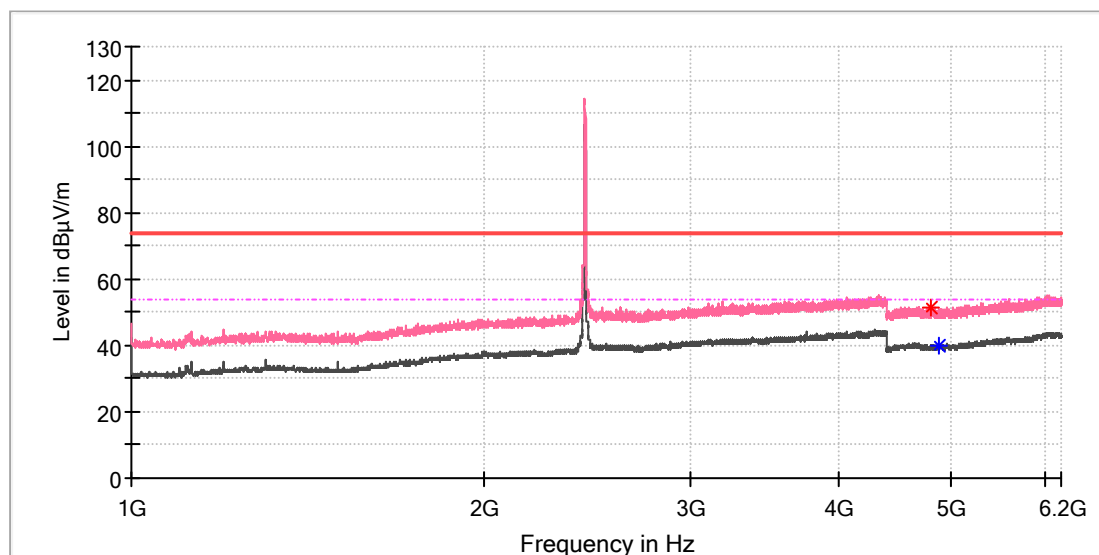
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4868.000000	---	40.43	54.00	13.57	150.0	H	280.0	11.8
4868.500000	51.33	---	74.00	22.67	150.0	H	64.0	11.8

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:	SDR 2.4G_5M_2434.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

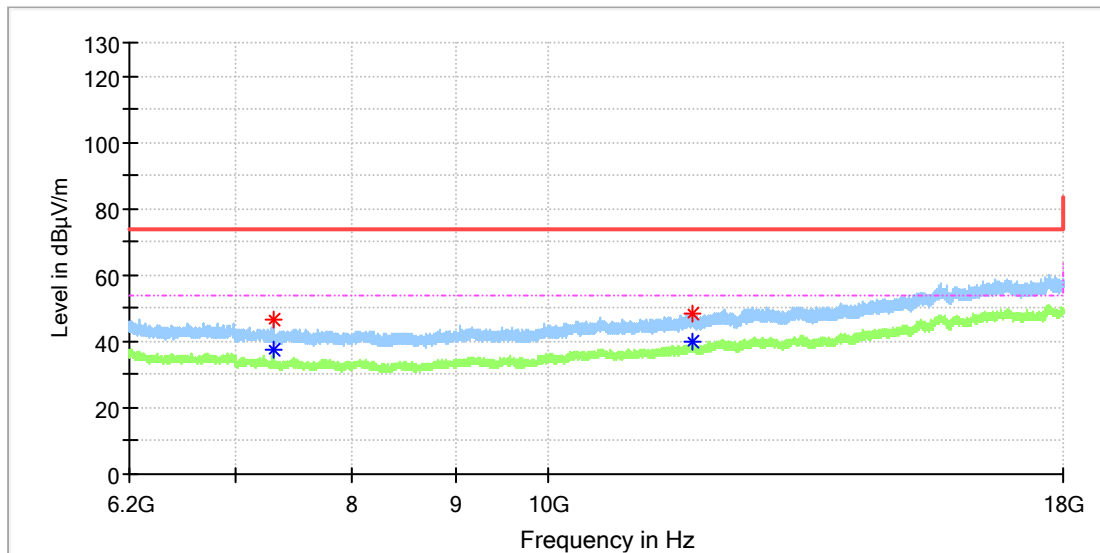
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4800.500000	51.67	---	74.00	22.33	150.0	V	266.0	11.8
4870.000000	---	40.04	54.00	13.96	150.0	V	309.0	11.8

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:	SDR 2.4G_5M_2434.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

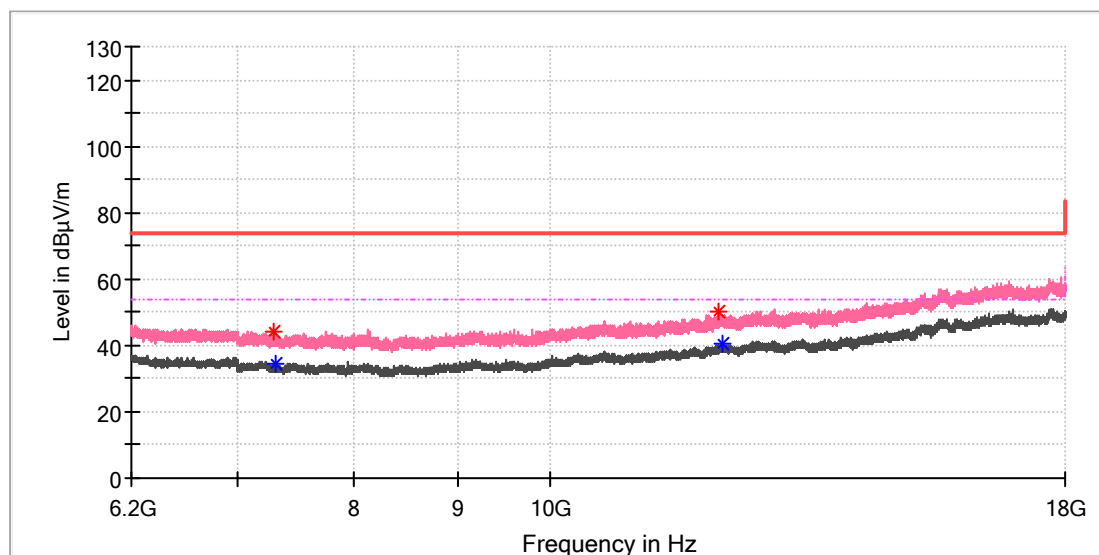
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7304.775000	---	37.64	54.00	16.36	150.0	H	52.0	8.3
7305.266667	46.26	---	74.00	27.74	150.0	H	40.0	8.3
11794.183333	48.65	---	74.00	25.35	150.0	H	300.0	13.4
11794.183333	---	39.84	54.00	14.16	150.0	H	300.0	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:	SDR 2.4G_5M_2434.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

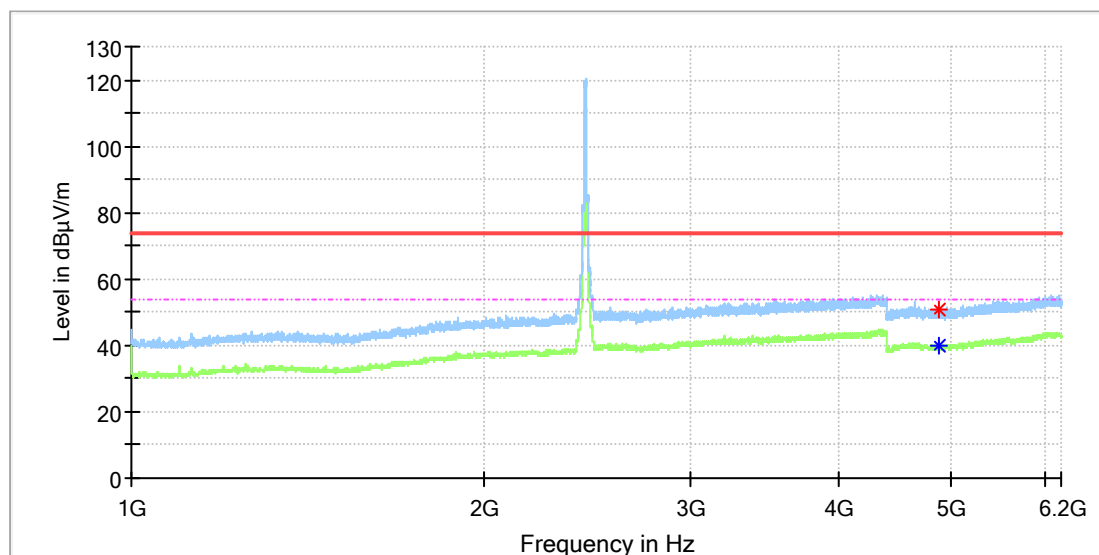
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7291.500000	44.11	---	74.00	29.89	150.0	V	320.0	8.3
7304.283333	---	34.76	54.00	19.24	150.0	V	0.0	8.3
12120.650000	50.04	---	74.00	23.96	150.0	V	58.0	14.3
12162.441667	---	40.27	54.00	13.73	150.0	V	119.0	14.5

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:	SDR 2.4G_10M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

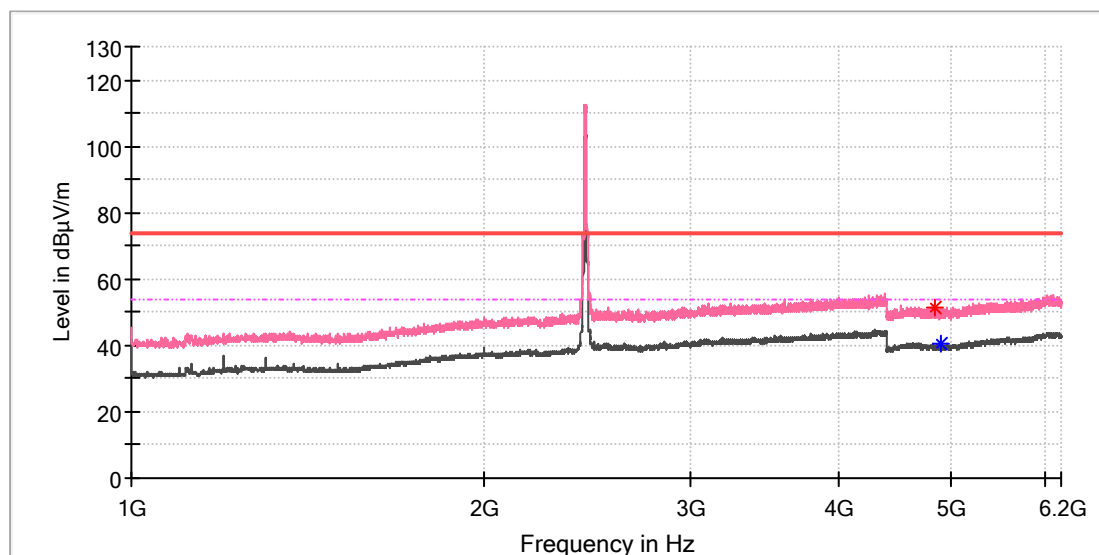
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4872.000000	---	40.11	54.00	13.89	150.0	H	99.0	11.8
4873.000000	50.81	---	74.00	23.19	150.0	H	313.0	11.8

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:	SDR 2.4G_10M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

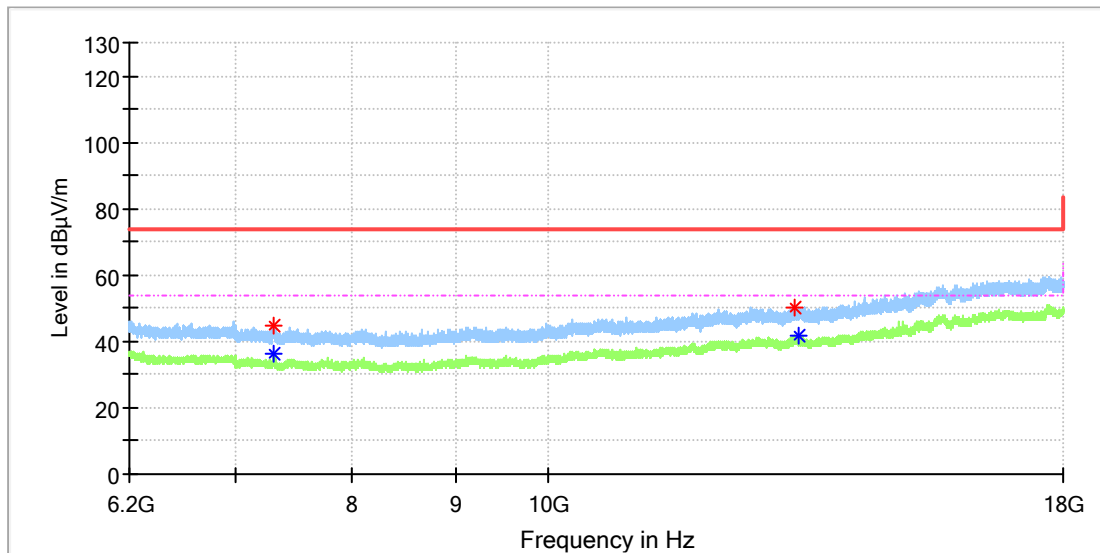
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4841.000000	51.46	---	74.00	22.54	150.0	V	335.0	11.8
4901.000000	---	40.26	54.00	13.74	150.0	V	36.0	11.8

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:	SDR 2.4G_10M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

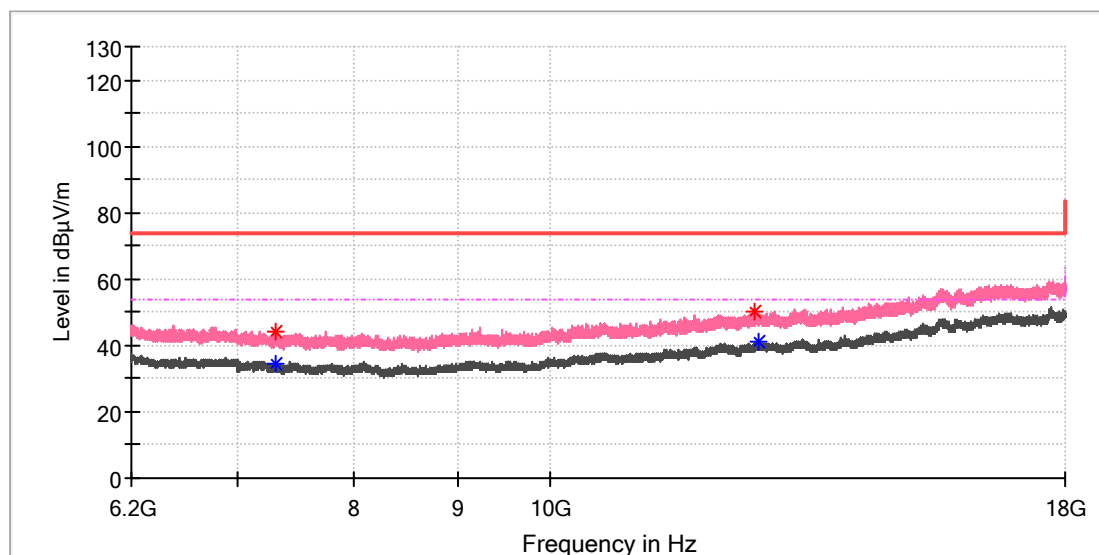
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7310.183333	---	36.53	54.00	17.47	150.0	H	46.0	8.2
7314.116667	44.64	---	74.00	29.36	150.0	H	0.0	8.2
13241.158333	50.46	---	74.00	23.54	150.0	H	72.0	15.5
13306.058333	---	41.91	54.00	12.09	150.0	H	310.0	15.5

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:	SDR 2.4G_10M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

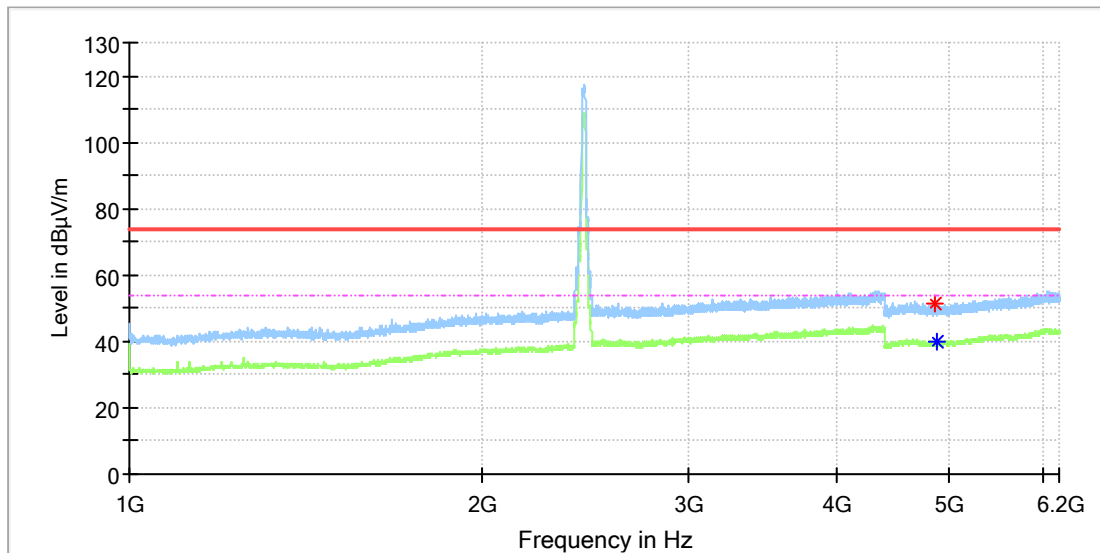
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7303.300000	44.05	---	74.00	29.95	150.0	V	182.0	8.3
7306.250000	---	34.27	54.00	19.73	150.0	V	124.0	8.3
12618.216667	50.03	---	74.00	23.97	150.0	V	182.0	14.9
12687.050000	---	40.87	54.00	13.13	150.0	V	304.0	15.1

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:	SDR 2.4G_20M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

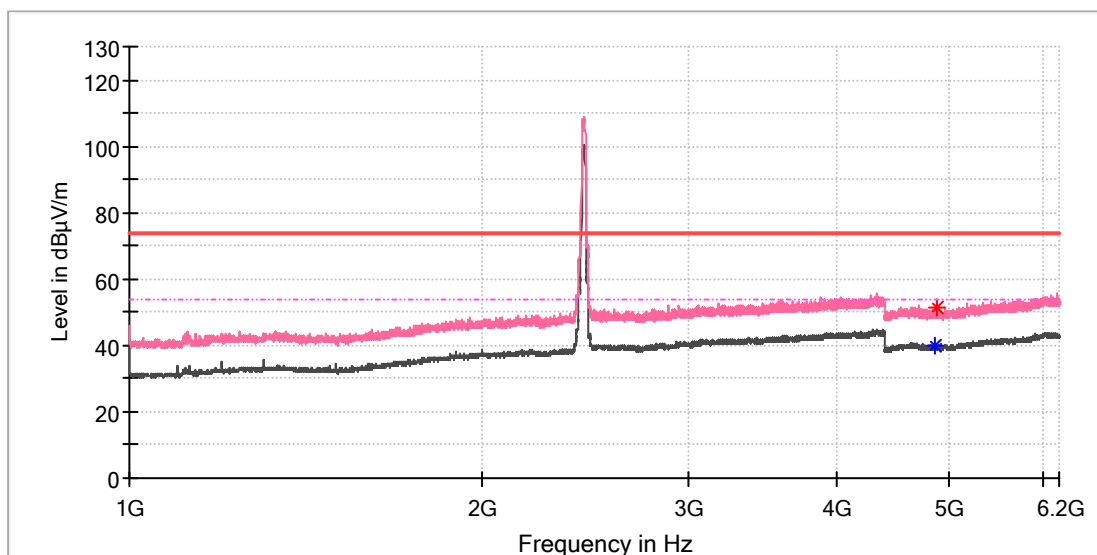
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4858.000000	51.31	---	74.00	22.69	150.0	H	149.0	11.8
4870.000000	---	39.71	54.00	14.29	150.0	H	339.0	11.8

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:	SDR 2.4G_20M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

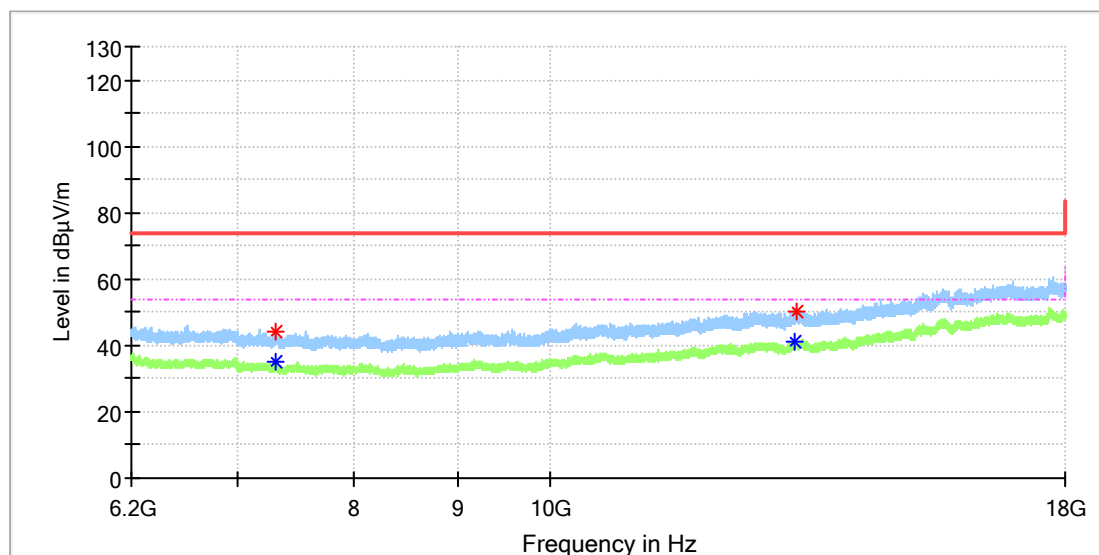
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4858.000000	---	39.93	54.00	14.07	150.0	V	229.0	11.8
4883.500000	51.62	---	74.00	22.38	150.0	V	280.0	11.8

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:	SDR 2.4G_20M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

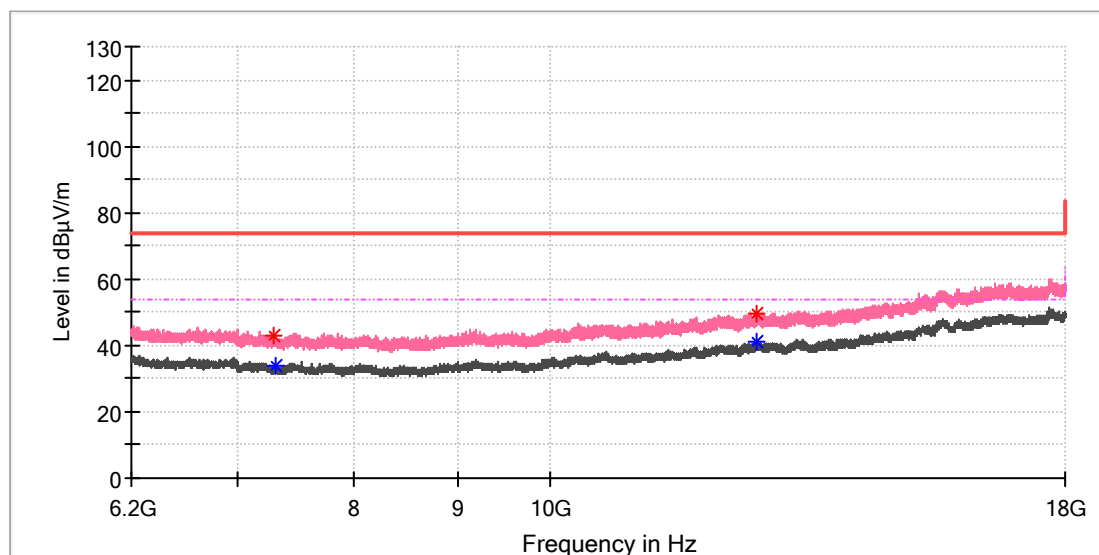
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.200000	---	35.35	54.00	18.65	150.0	H	50.0	8.2
7315.591667	44.10	---	74.00	29.90	150.0	H	50.0	8.2
13232.308333	---	41.36	54.00	12.64	150.0	H	0.0	15.5
13245.091667	50.26	---	74.00	23.74	150.0	H	156.0	15.5

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:	SDR 2.4G_20M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

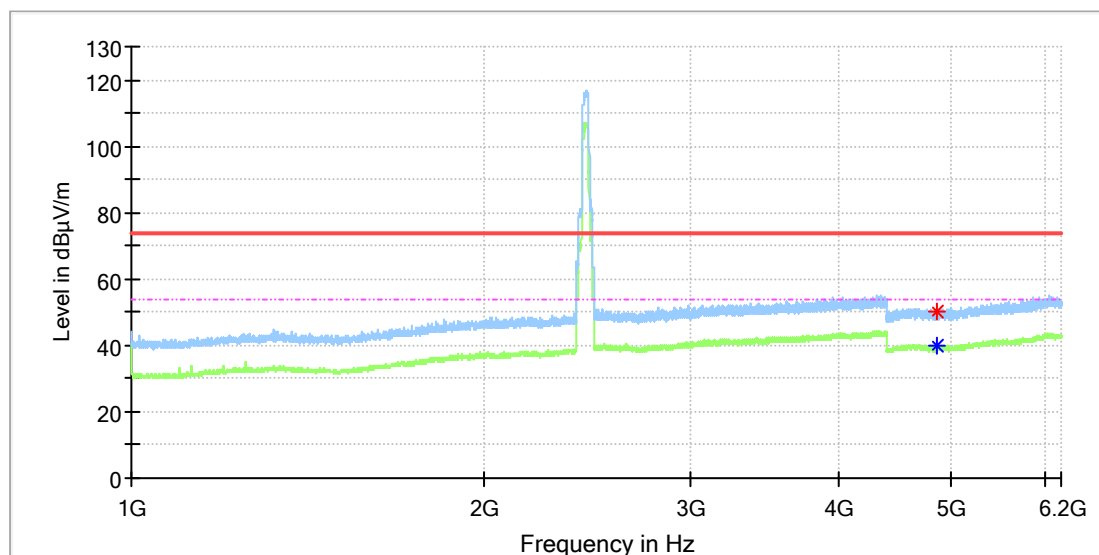
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7298.875000	43.02	---	74.00	30.98	150.0	V	0.0	8.3
7309.691667	---	34.05	54.00	19.95	150.0	V	301.0	8.2
12647.225000	---	41.14	54.00	12.86	150.0	V	193.0	15.0
12655.091667	49.87	---	74.00	24.13	150.0	V	313.0	15.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_40M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

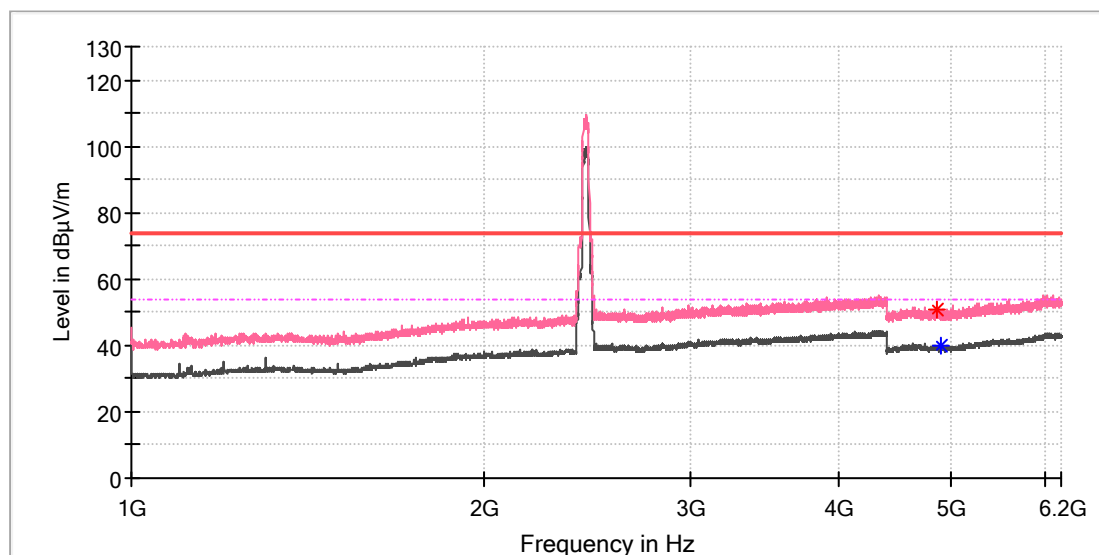
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4862.000000	---	39.88	54.00	14.12	150.0	H	55.0	11.8
4867.500000	50.38	---	74.00	23.62	150.0	H	55.0	11.8

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:	SDR 2.4G_40M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

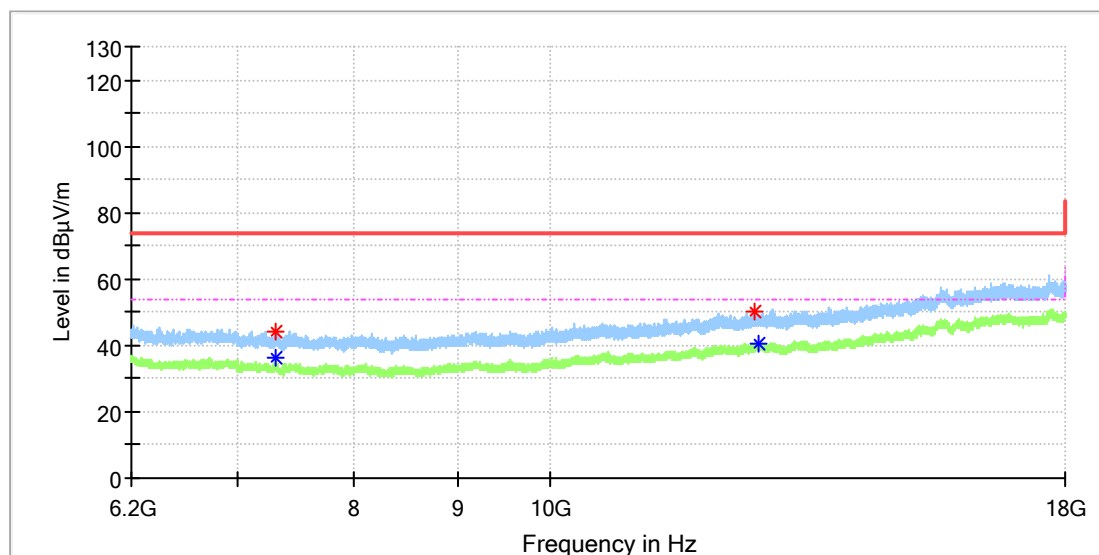
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4862.000000	50.73	---	74.00	23.27	150.0	V	340.0	11.8
4898.000000	---	39.70	54.00	14.30	150.0	V	323.0	11.8

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:	SDR 2.4G_40M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

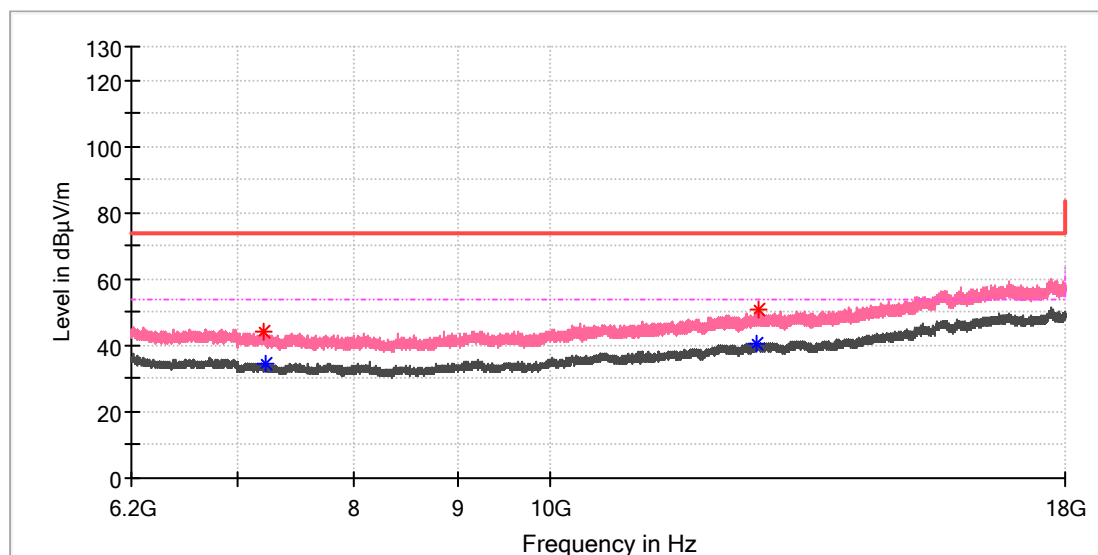
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7302.316667	43.97	---	74.00	30.03	150.0	H	161.0	8.3
7311.658333	---	36.02	54.00	17.98	150.0	H	37.0	8.2
12636.900000	49.89	---	74.00	24.11	150.0	H	342.0	15.0
12675.741667	---	40.76	54.00	13.24	150.0	H	331.0	15.1

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:	SDR 2.4G_40M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

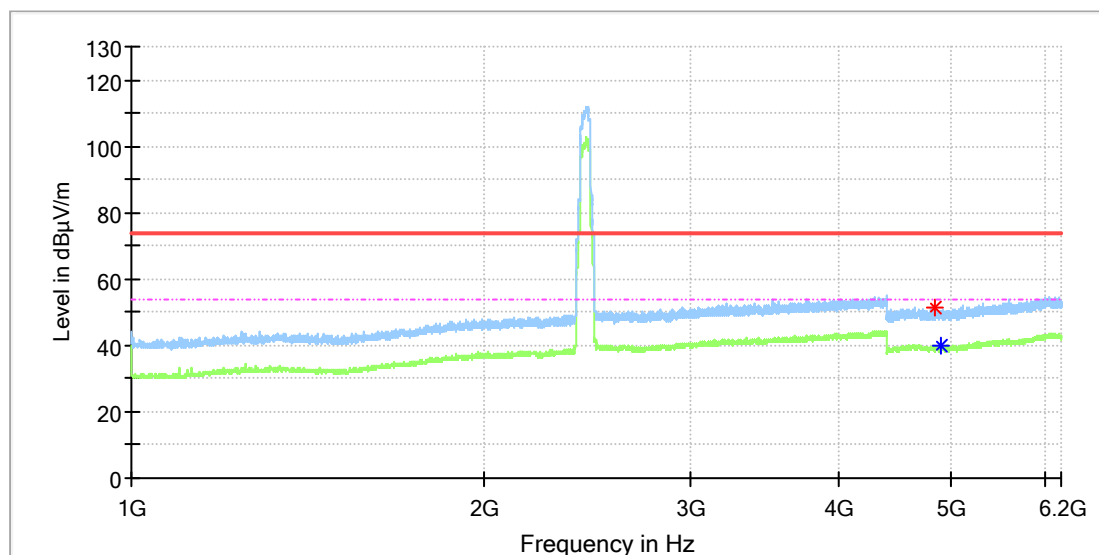
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7218.241667	43.92	---	74.00	30.08	150.0	V	0.0	8.7
7222.666667	---	34.49	54.00	19.51	150.0	V	79.0	8.7
12646.733333	---	40.54	54.00	13.46	150.0	V	30.0	15.0
12680.166667	50.49	---	74.00	23.51	150.0	V	67.0	15.1

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:	SDR 2.4G_60M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

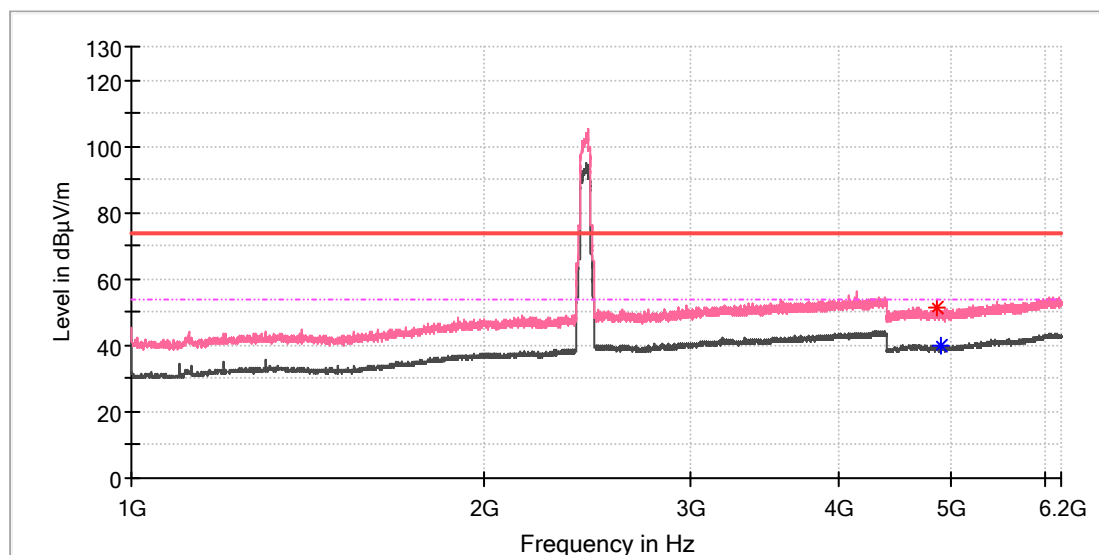
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4848.500000	51.43	---	74.00	22.57	150.0	H	0.0	11.8
4898.000000	---	39.77	54.00	14.23	150.0	H	223.0	11.8

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:	SDR 2.4G_60M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

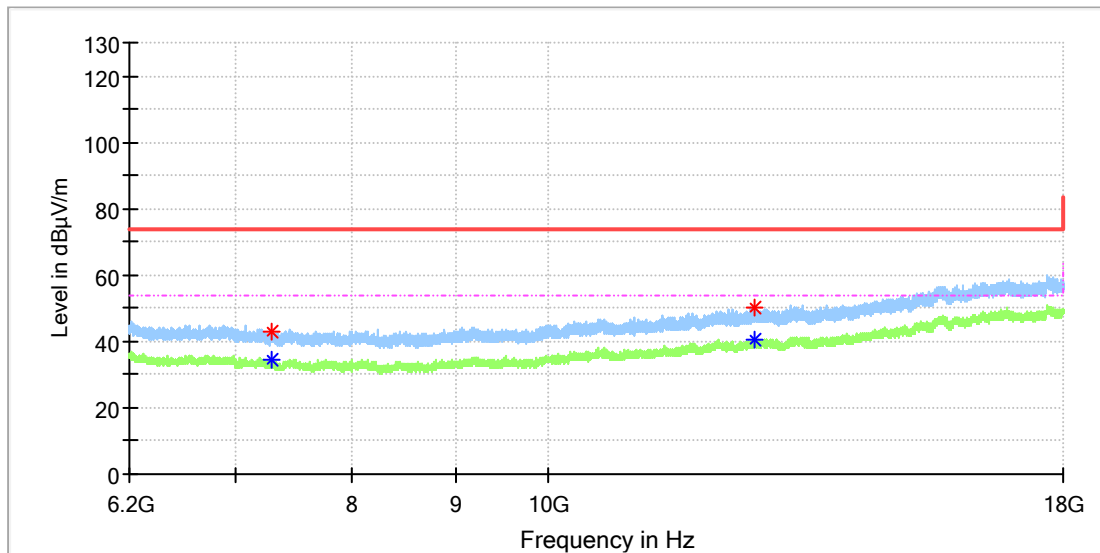
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4863.000000	51.58	---	74.00	22.42	150.0	V	213.0	11.8
4900.500000	---	39.91	54.00	14.09	150.0	V	80.0	11.8

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:	SDR 2.4G_60M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

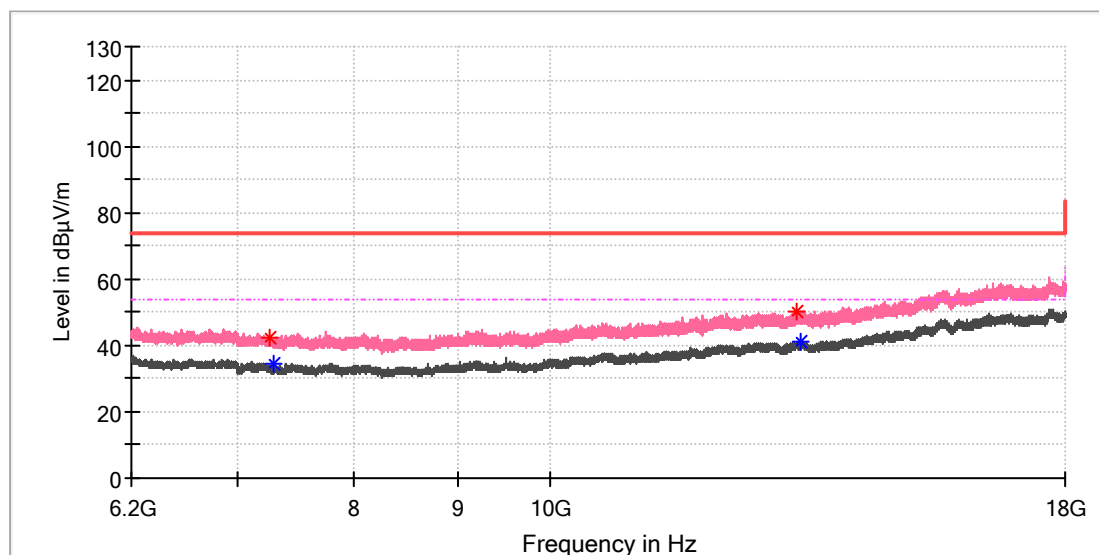
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7294.450000	---	34.45	54.00	19.55	150.0	H	4.0	8.3
7297.400000	42.81	---	74.00	31.19	150.0	H	133.0	8.3
12642.308333	---	40.28	54.00	13.72	150.0	H	133.0	15.0
12651.650000	49.95	---	74.00	24.05	150.0	H	133.0	15.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_60M_2437.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
7266.425000	42.62	---	74.00	31.38	150.0	V	125.0	8.5
7294.941667	---	34.43	54.00	19.57	150.0	V	196.0	8.3
13246.566667	50.29	---	74.00	23.71	150.0	V	0.0	15.5
13316.383333	---	41.06	54.00	12.94	150.0	V	196.0	15.5

Final Result

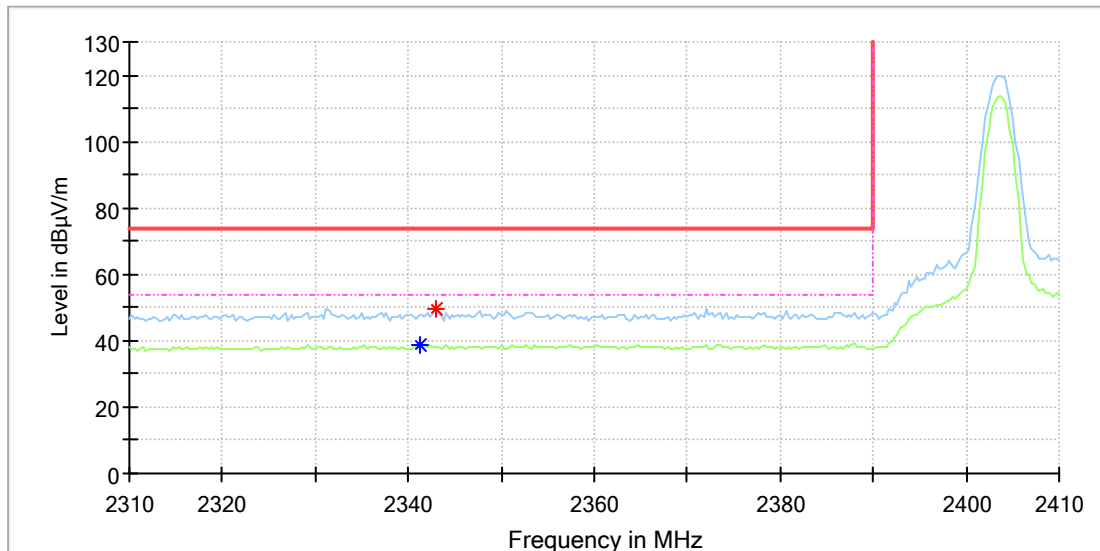
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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

2.4GHz SDR, 1.4MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_1.4M_2403.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

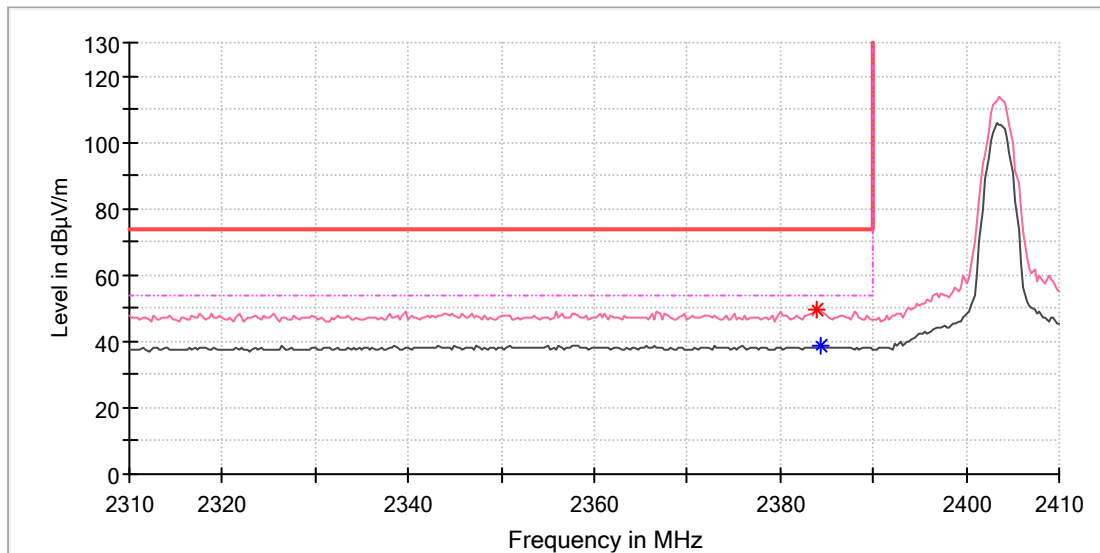
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2341.176471	---	38.70	54.00	15.30	150.0	H	265.0	6.8
2342.941177	49.54	---	74.00	24.46	150.0	H	359.0	6.8

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:	SDR 2.4G_1.4M_2403.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

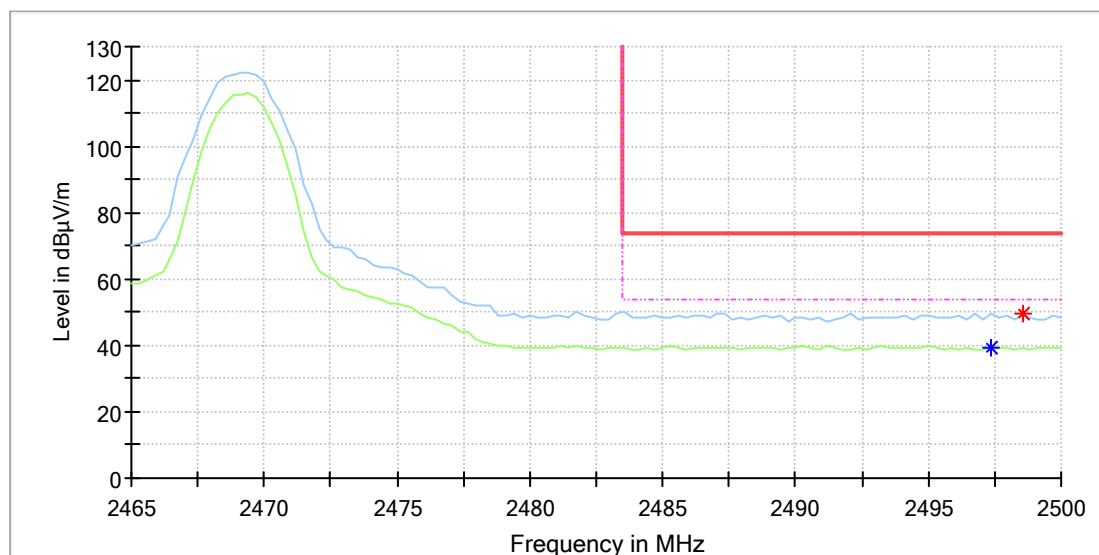
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2383.823529	49.72	---	74.00	24.28	150.0	V	103.0	7.0
2384.411765	---	38.63	54.00	15.37	150.0	V	103.0	7.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_1.4M_2469.12MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

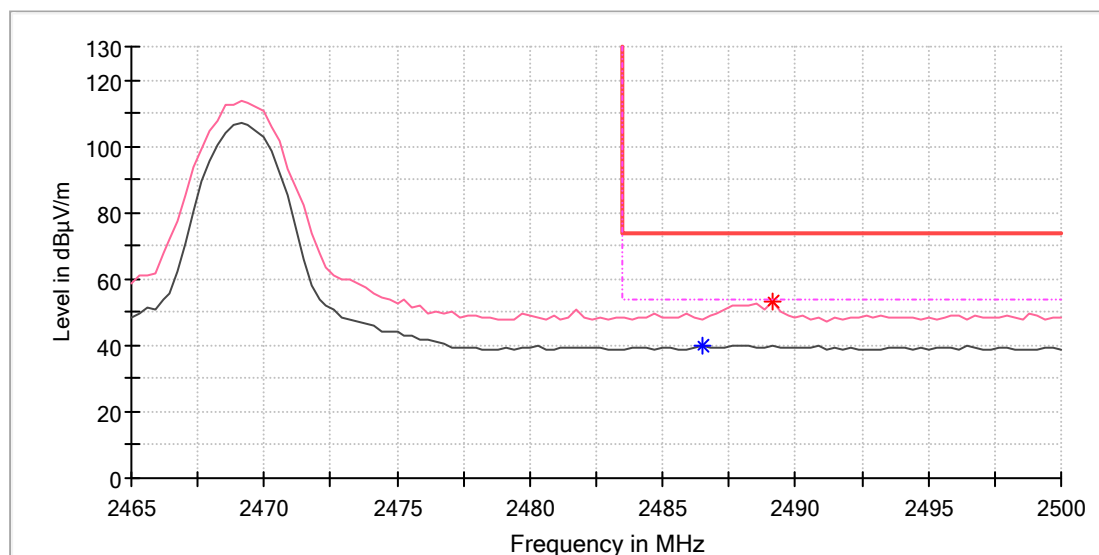
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2497.352941	---	39.39	54.00	14.61	150.0	H	260.0	7.4
2498.529412	49.76	---	74.00	24.24	150.0	H	0.0	7.4

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:	SDR 2.4G_1.4M_2469.12MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
2486.470588	---	39.98	54.00	14.02	150.0	V	354.0	7.4
2489.117647	53.06	---	74.00	20.94	150.0	V	49.0	7.4

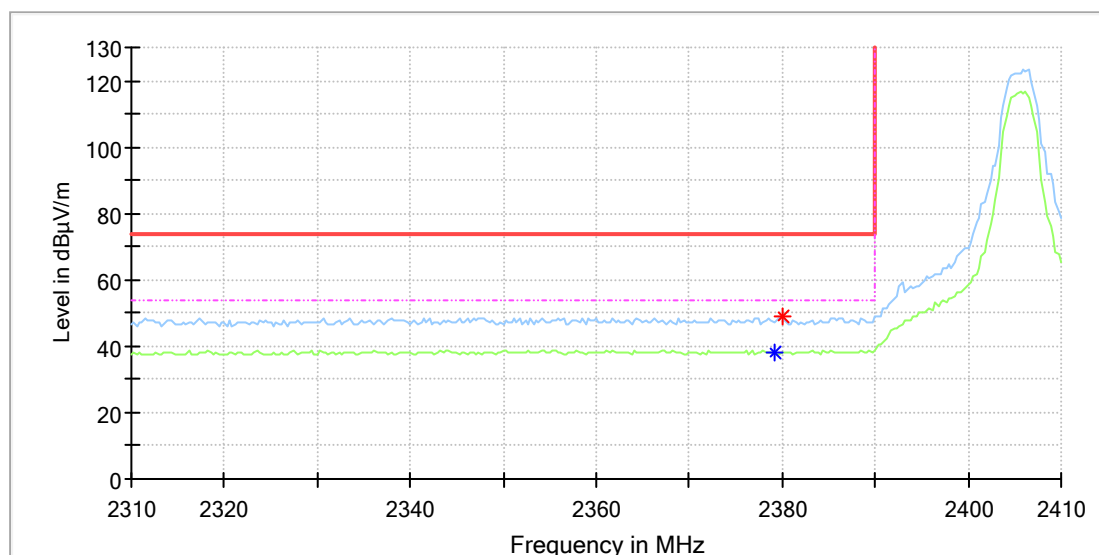
Final Result

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

2.4GHz SDR, 3MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_3M_2405.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

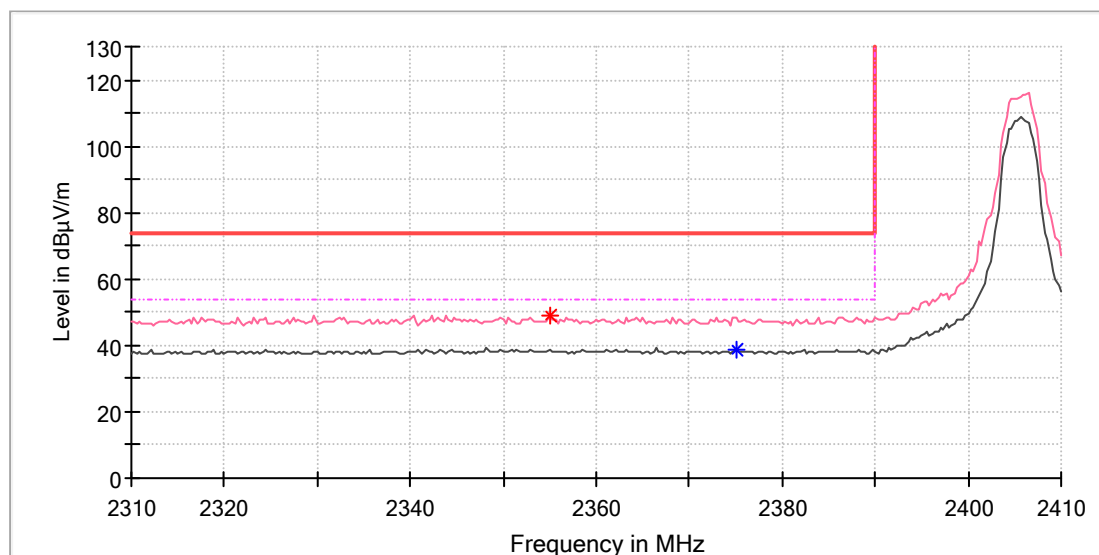
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2379.117647	---	38.08	54.00	15.92	150.0	H	259.0	7.0
2380.000000	48.91	---	74.00	25.09	150.0	H	323.0	7.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_3M_2405.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

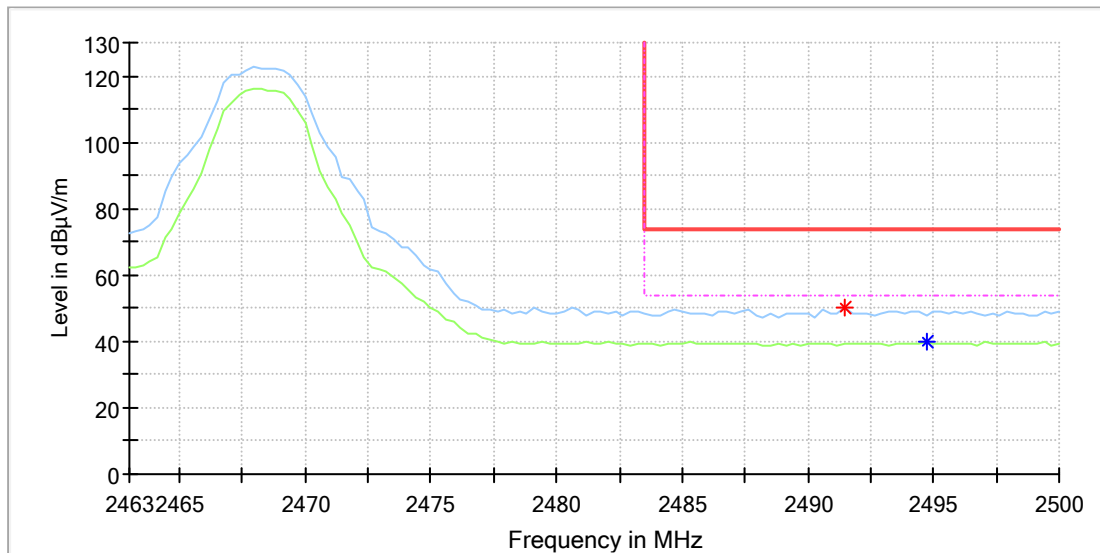
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2355.000000	48.99	---	74.00	25.01	150.0	V	1.0	6.9
2375.000000	---	38.96	54.00	15.04	150.0	V	218.0	6.9

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:	SDR 2.4G_3M_2468.2MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

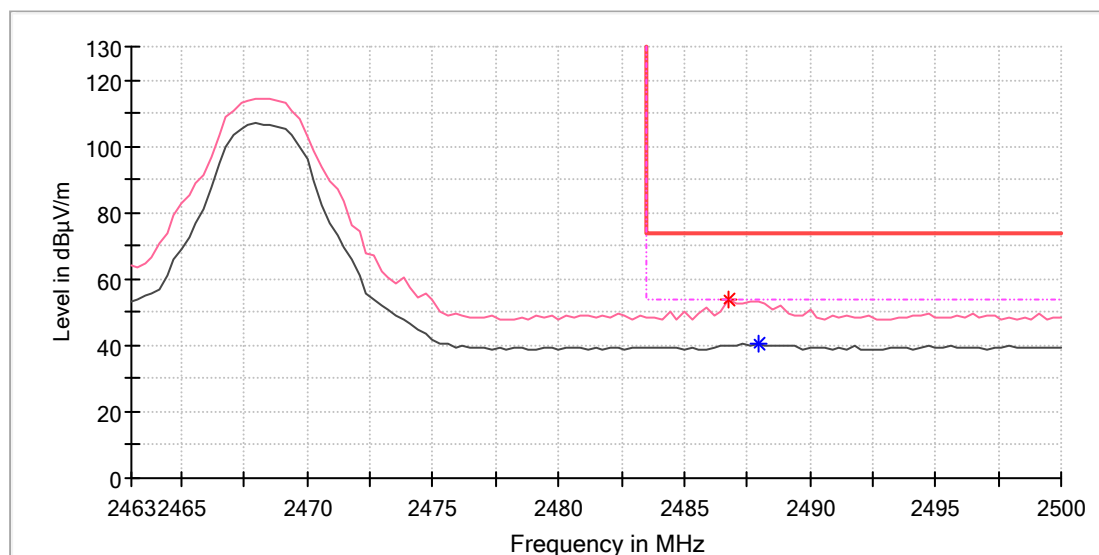
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2491.470588	50.26	---	74.00	23.74	150.0	H	54.0	7.4
2494.705882	---	40.21	54.00	13.79	150.0	H	98.0	7.4

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:	SDR 2.4G_3M_2468.2MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
2486.764706	53.75	---	74.00	20.25	150.0	V	60.0	7.4
2487.941177	---	40.69	54.00	13.31	150.0	V	60.0	7.4

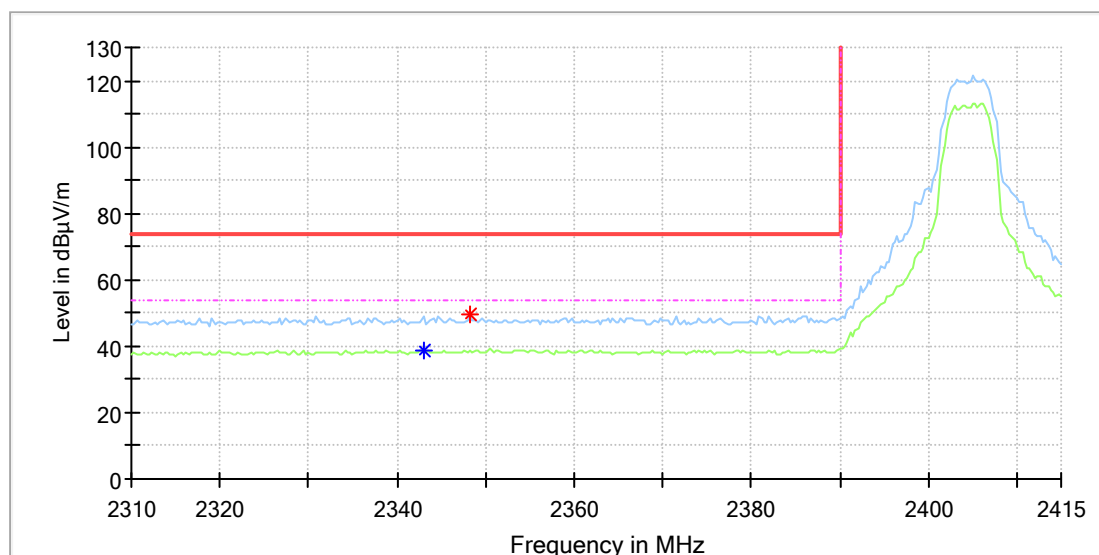
Final Result

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

2.4GHz SDR, 5MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_5M_2404.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

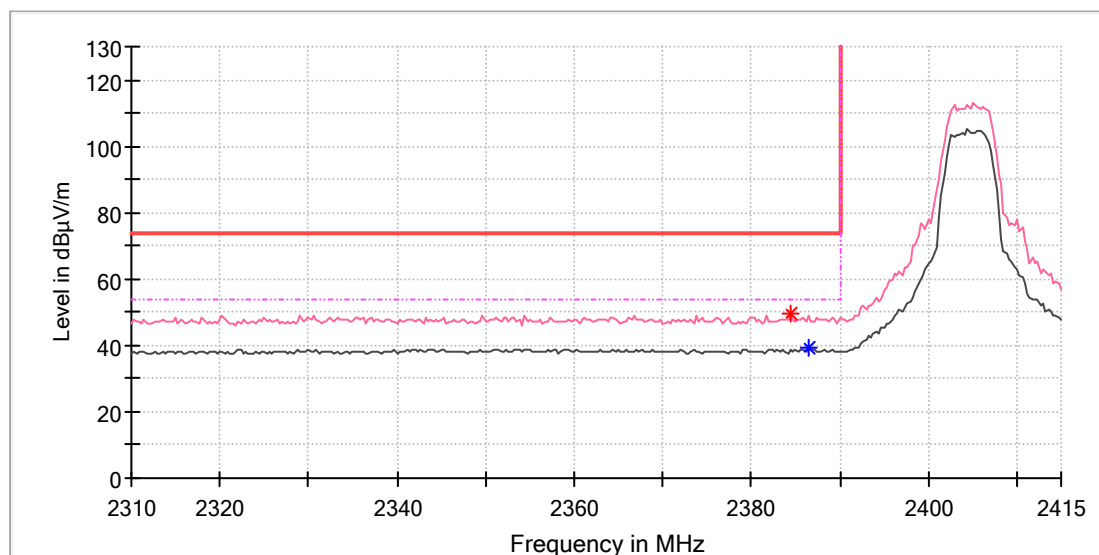
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2342.941177	---	38.88	54.00	15.13	150.0	H	177.0	6.8
2348.235294	49.54	---	74.00	24.46	150.0	H	0.0	6.9

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:	SDR 2.4G_5M_2404.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

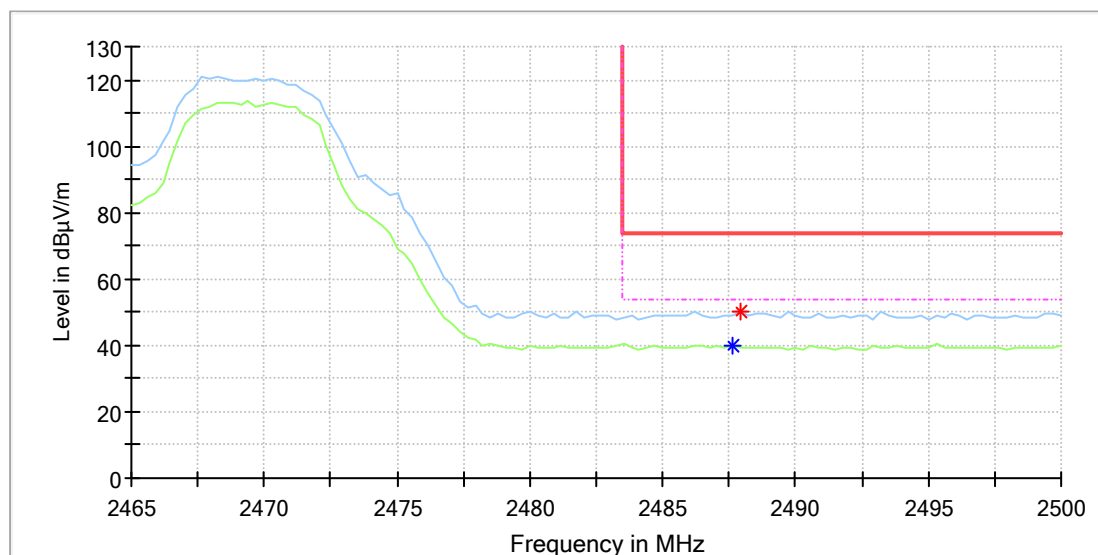
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2384.411765	49.51	---	74.00	24.49	150.0	V	70.0	7.0
2386.470588	---	39.06	54.00	14.94	150.0	V	0.0	7.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_5M_2469.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

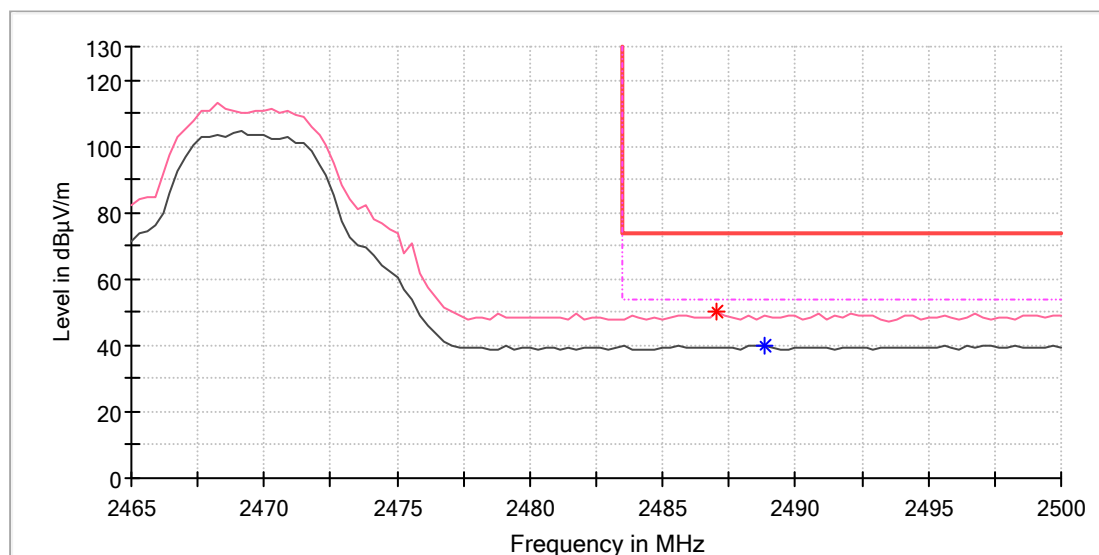
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.647059	---	39.75	54.00	14.25	150.0	H	258.0	7.4
2487.941177	50.20	---	74.00	23.80	150.0	H	63.0	7.4

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:	SDR 2.4G_5M_2469.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
2487.058824	50.11	---	74.00	23.89	150.0	V	115.0	7.4
2488.823529	---	40.12	54.00	13.88	150.0	V	322.0	7.4

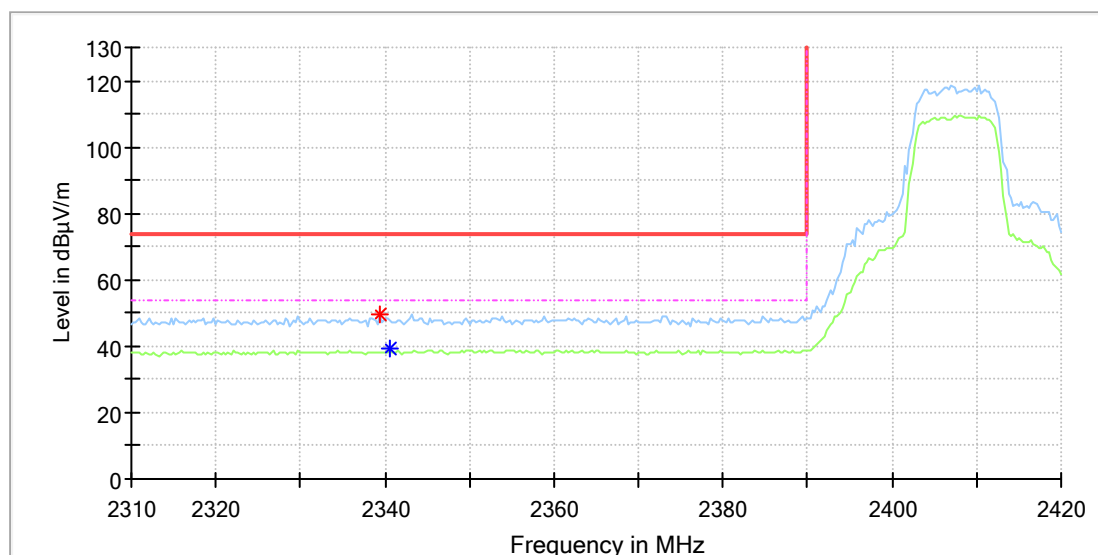
Final Result

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

2.4GHz SDR, 10MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_10M_2407.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

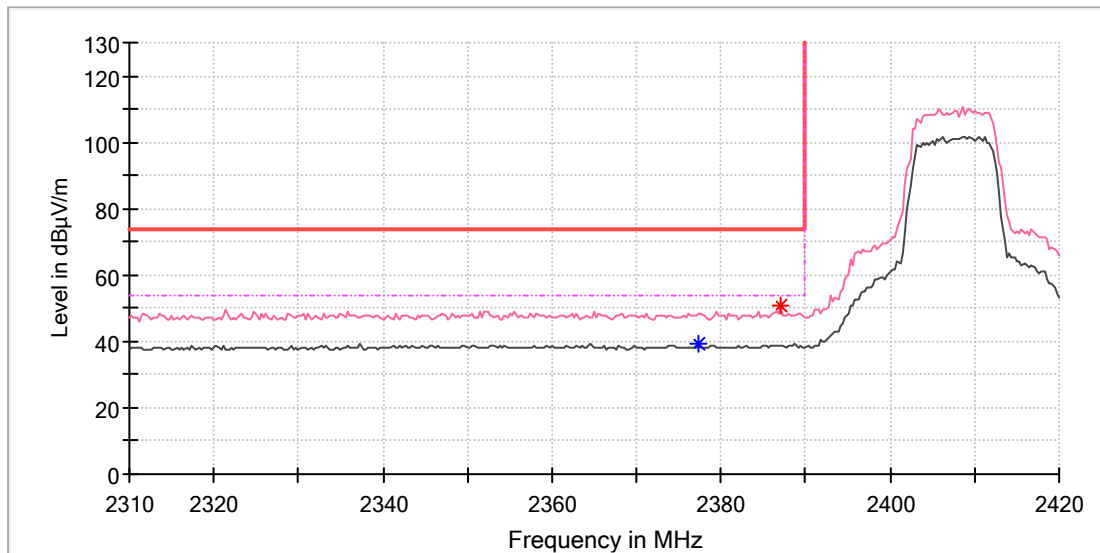
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2339.411765	49.41	---	74.00	24.59	150.0	H	0.0	6.8
2340.588235	---	39.18	54.00	14.82	150.0	H	313.0	6.8

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:	SDR 2.4G_10M_2407.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

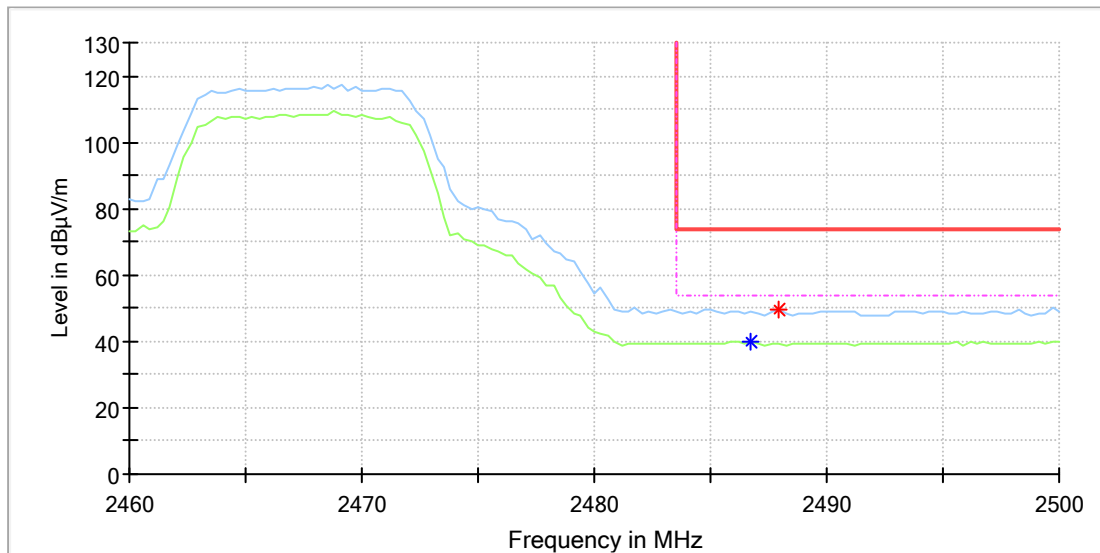
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.352941	---	39.18	54.00	14.82	150.0	V	99.0	6.9
2387.058824	50.73	---	74.00	23.27	150.0	V	52.0	7.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_10M_2467.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

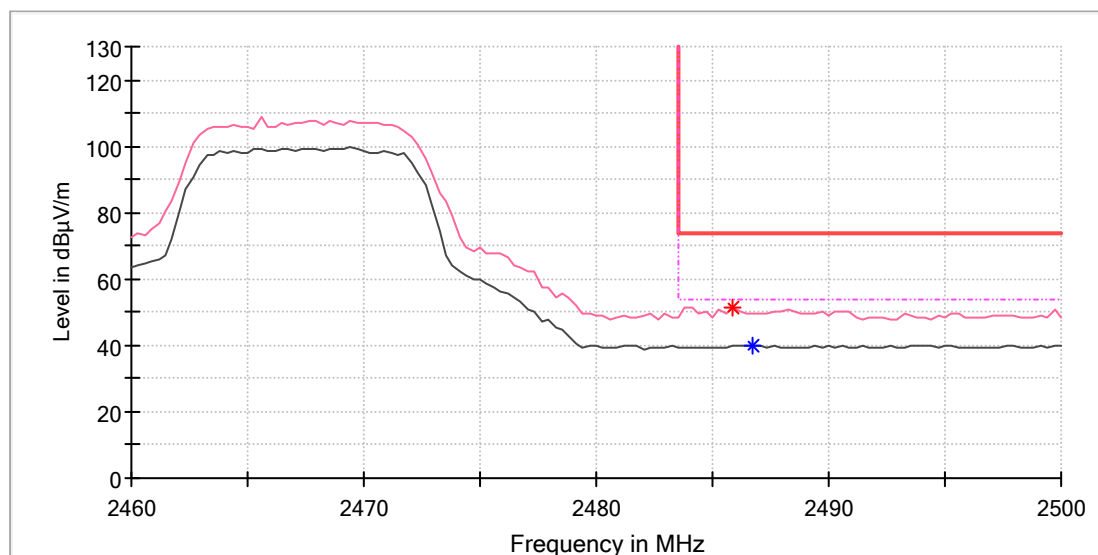
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.764706	---	39.89	54.00	14.11	150.0	H	39.0	7.4
2487.941177	49.83	---	74.00	24.17	150.0	H	179.0	7.4

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:	SDR 2.4G_10M_2467.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
2485.882353	51.68	---	74.00	22.32	150.0	V	320.0	7.4
2486.764706	---	40.03	54.00	13.97	150.0	V	121.0	7.4

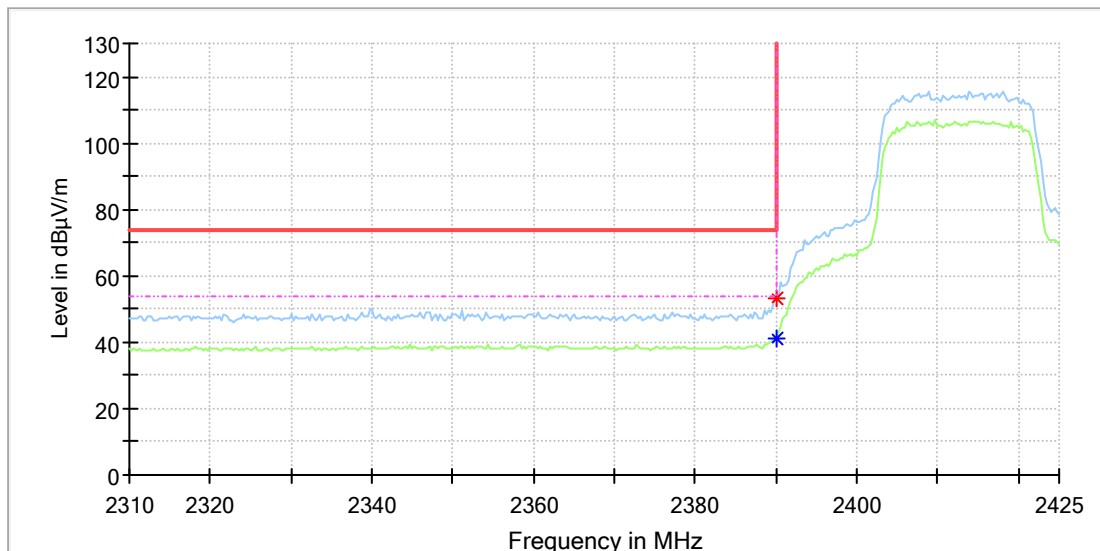
Final Result

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

2.4GHz SDR, 20MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_20M_2412.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

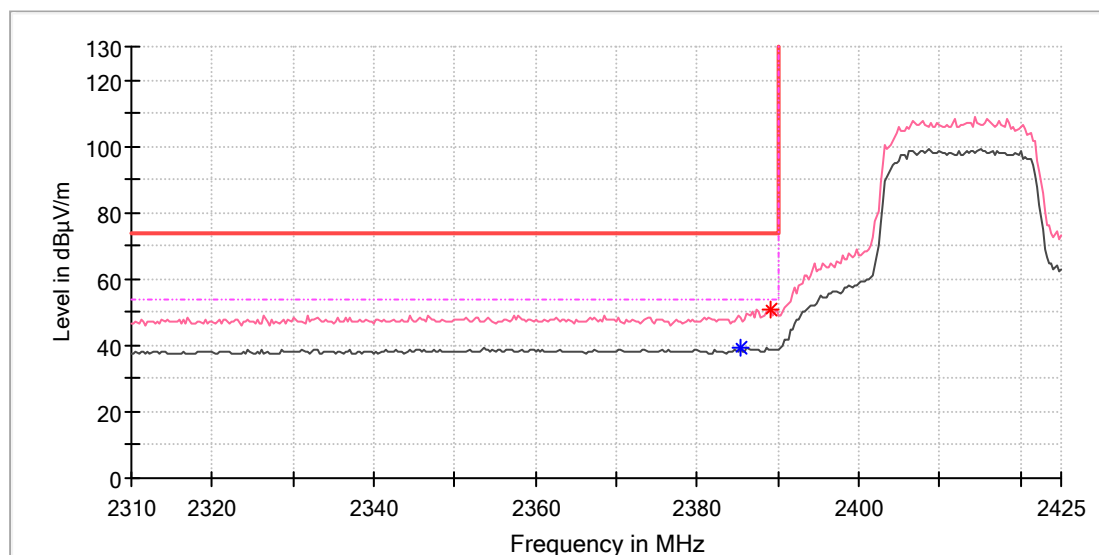
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	---	41.06	54.00	12.94	150.0	H	0.0	7.0
2390.000000	52.92	---	74.00	21.08	150.0	H	0.0	7.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_20M_2412.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

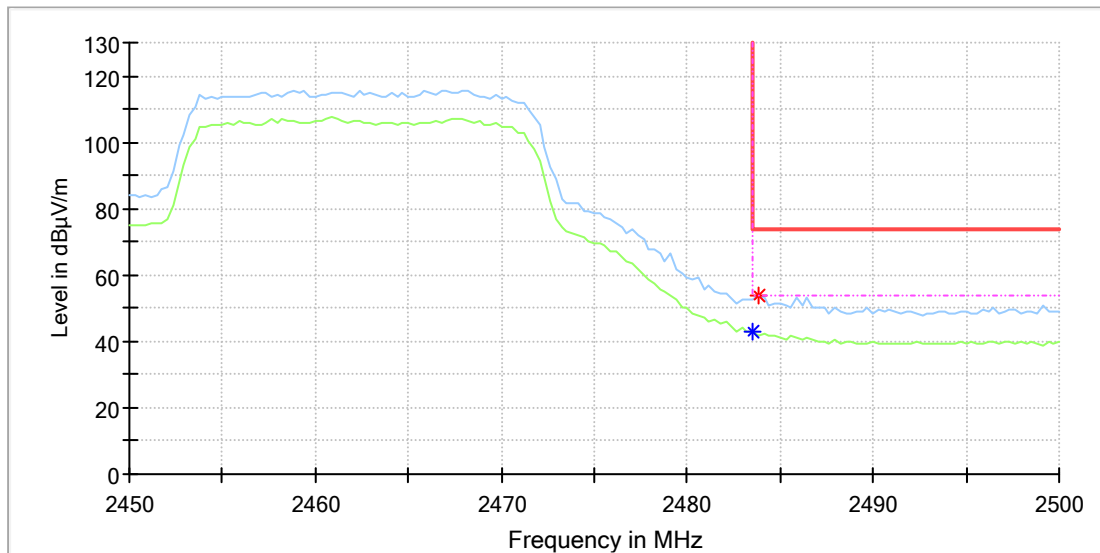
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.294118	---	39.27	54.00	14.73	150.0	V	111.0	7.0
2389.117647	50.59	---	74.00	23.41	150.0	V	141.0	7.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_20M_2462.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

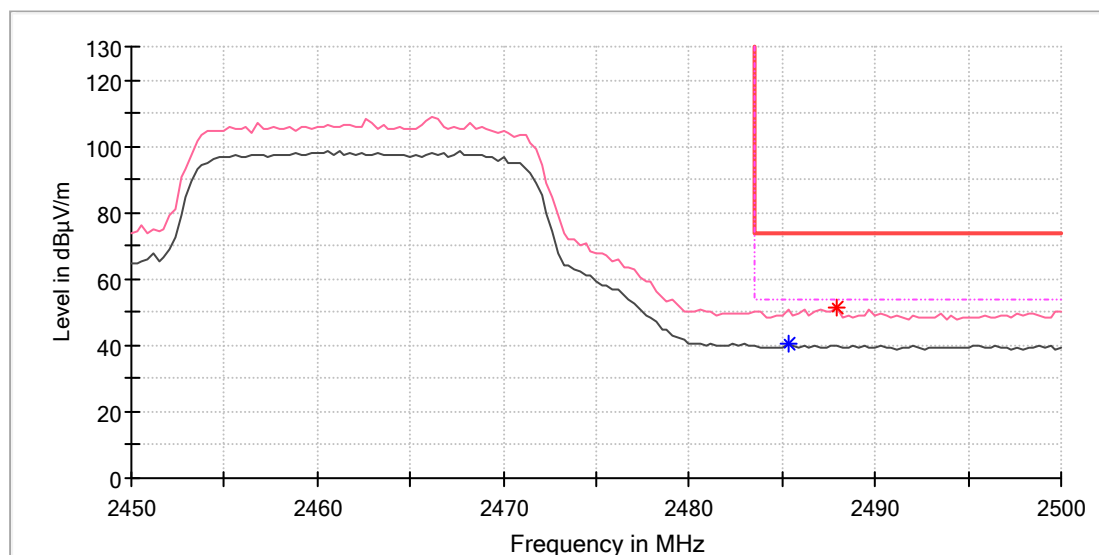
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	43.23	54.00	10.77	150.0	H	348.0	7.4
2483.823529	53.76	---	74.00	20.24	150.0	H	321.0	7.4

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:	SDR 2.4G_20M_2462.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
2485.294118	---	40.35	54.00	13.65	150.0	V	60.0	7.4
2487.941177	51.55	---	74.00	22.45	150.0	V	45.0	7.4

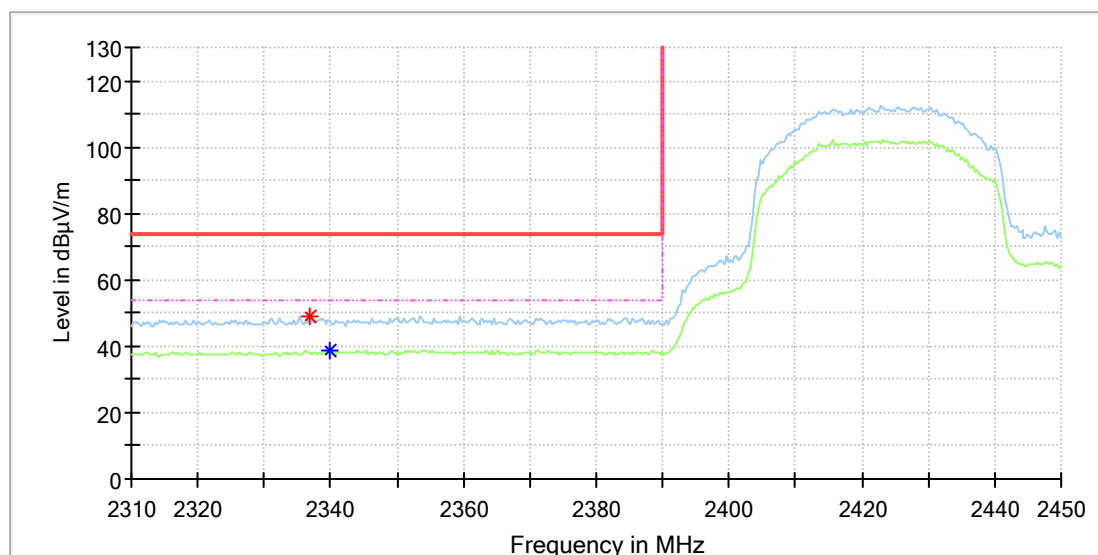
Final Result

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

2.4GHz SDR, 40MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_40M_2422.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

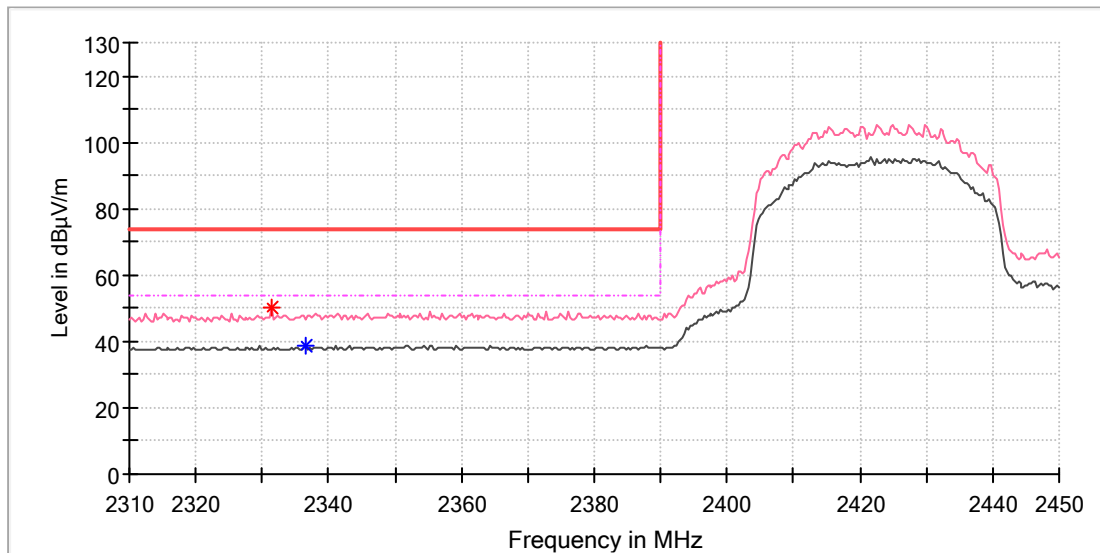
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2336.764706	49.06	---	74.00	24.94	150.0	H	356.0	6.8
2340.000000	---	38.47	54.00	15.53	150.0	H	349.0	6.8

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:	SDR 2.4G_40M_2422.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

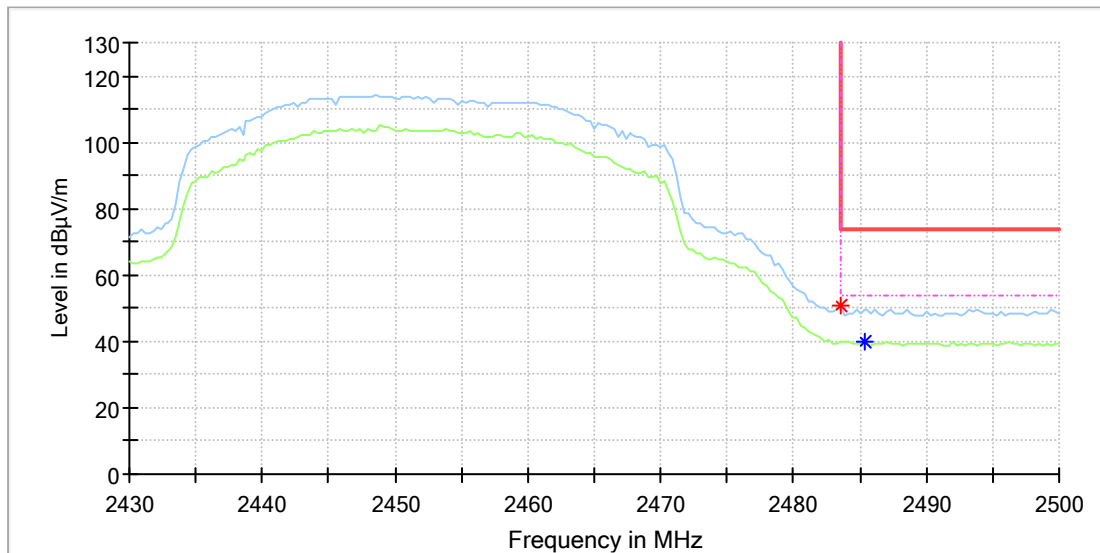
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2331.470588	49.92	---	74.00	24.08	150.0	V	1.0	6.7
2336.470588	---	38.47	54.00	15.53	150.0	V	107.0	6.8

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:	SDR 2.4G_40M_2452.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

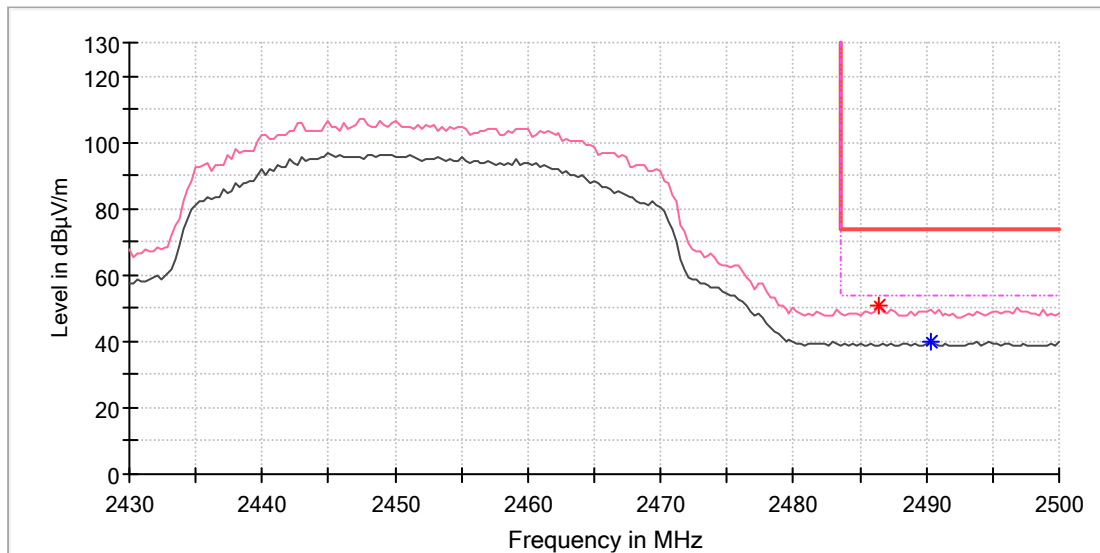
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	50.79	---	74.00	23.21	150.0	H	0.0	7.4
2485.294118	---	39.70	54.00	14.30	150.0	H	333.0	7.4

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:	SDR 2.4G_40M_2452.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
2486.470588	50.49	---	74.00	23.51	150.0	V	182.0	7.4
2490.294118	---	39.80	54.00	14.20	150.0	V	122.0	7.4

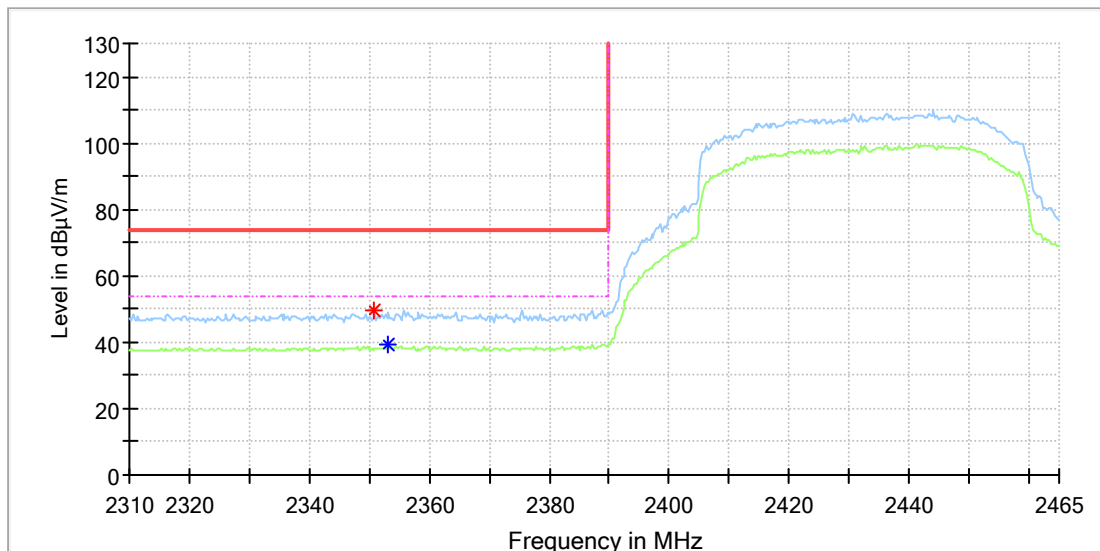
Final Result

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

2.4GHz SDR, 60MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 2.4G_60M_2432.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

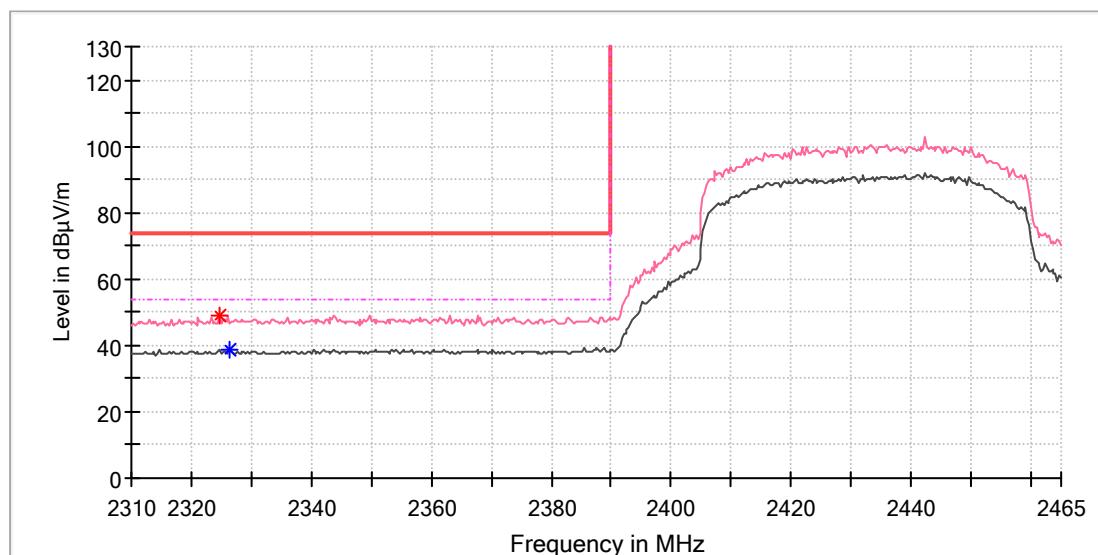
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2350.882353	49.71	---	74.00	24.29	150.0	H	3.0	6.9
2353.235294	---	39.11	54.00	14.89	150.0	H	172.0	6.9

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:	SDR 2.4G_60M_2432.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

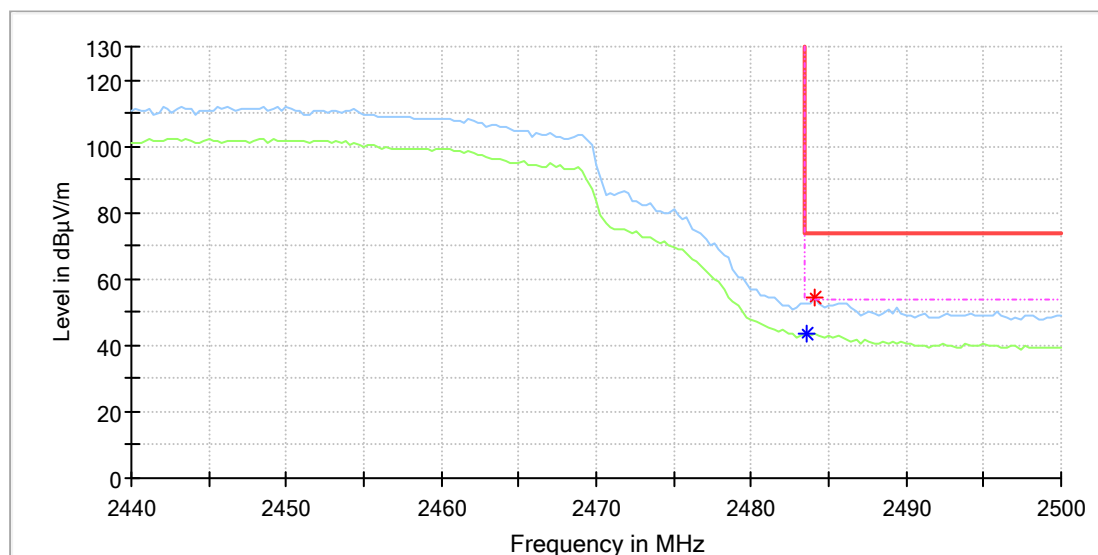
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2324.705882	49.16	---	74.00	24.84	150.0	V	253.0	6.6
2326.470588	---	38.56	54.00	15.44	150.0	V	309.0	6.7

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:	SDR 2.4G_60M_2442.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

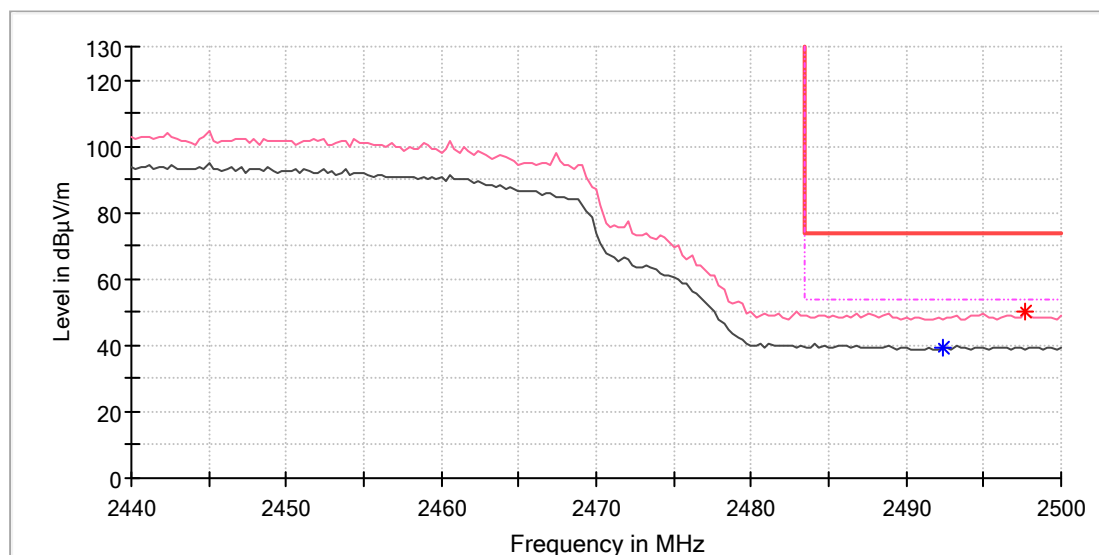
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	43.70	54.00	10.30	150.0	H	0.0	7.4
2484.117647	54.19	---	74.00	19.81	150.0	H	0.0	7.4

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:	SDR 2.4G_60M_2442.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
2492.352941	---	39.59	54.00	14.41	150.0	V	0.0	7.4
2497.647059	50.31	---	74.00	23.69	150.0	V	131.0	7.4

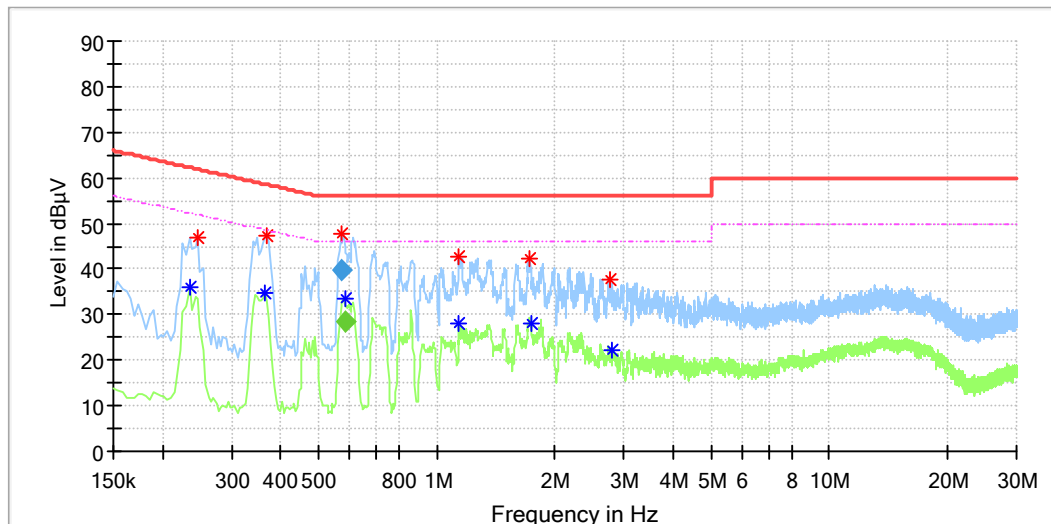
Final Result

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

Appendix A.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

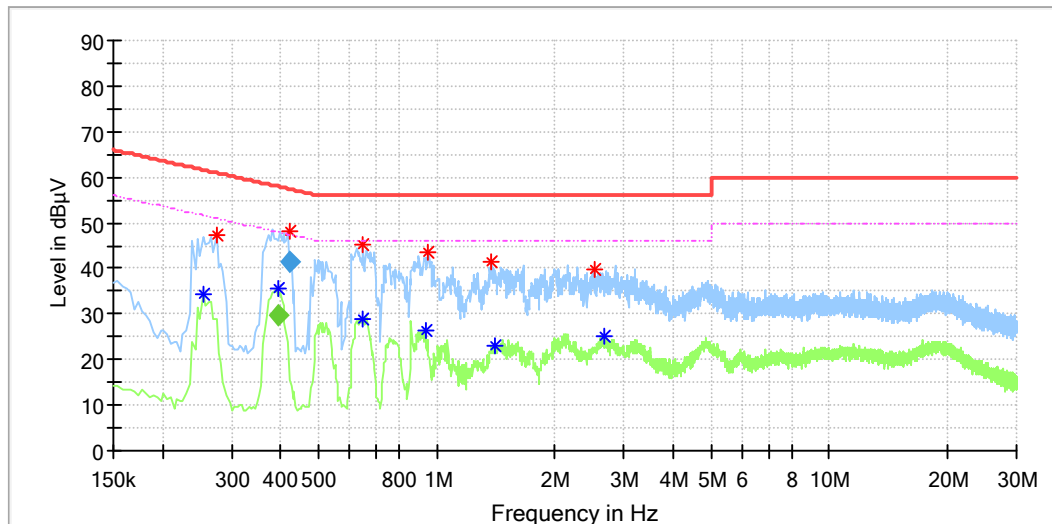
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.234000	---	36.19	52.31	16.11	L1	9.9
0.246000	46.90	---	61.89	14.99	L1	9.9
0.366000	---	34.87	48.59	13.72	L1	9.9
0.370000	47.44	---	58.50	11.06	L1	9.9
0.573500	47.72	---	56.00	8.28	L1	10.0
0.582500	---	33.29	46.00	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