

Appendix A: Test Results of 5.8G SDR

APPENDIX A: TEST RESULTS OF 5.8G SDR	1
APPENDIX A.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
5.8G SDR, 1.4MHz BW	2
5.8G SDR, 3MHz BW	5
5.8G SDR, 5MHz BW	8
5.8G SDR, 10MHz BW	11
5.8G SDR, 20MHz BW	14
5.8G SDR, 40MHz BW	17
5.8G SDR, 60MHz BW	20
5.8G SDR, 80MHz BW	23
APPENDIX A.2: TEST RESULTS OF FREQUENCY STABILITY	26
APPENDIX A.3: TEST RESULTS OF 6dB BANDWIDTH	27
5.8G SDR, 1.4MHz BW	27
5.8G SDR, 3MHz BW	29
5.8G SDR, 5MHz BW	31
5.8G SDR, 10MHz BW	33
5.8G SDR, 20MHz BW	35
5.8G SDR, 40MHz BW	37
5.8G SDR, 60MHz BW	39
5.8G SDR, 80MHz BW	41
APPENDIX A.4: TEST RESULTS OF 99% BANDWIDTH	43
5.8G SDR, 1.4MHz BW	43
5.8G SDR, 3MHz BW	45
5.8G SDR, 5MHz BW	47
5.8G SDR, 10MHz BW	49
5.8G SDR, 20MHz BW	51
5.8G SDR, 40MHz BW	53
5.8G SDR, 60MHz BW	55
5.8G SDR, 80MHz BW	57
APPENDIX A.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	59
30MHz - 1GHz (Worst case)	59
1GHz - 18GHz	61
APPENDIX A.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	93
5.8G SDR, 1.4MHz BW	93
5.8G SDR, 3MHz BW	97
5.8G SDR, 5MHz BW	101
5.8G SDR, 10MHz BW	105
5.8G SDR, 20MHz BW	109
5.8G SDR, 40MHz BW	113
5.8G SDR, 60MHz BW	117
5.8G SDR, 80MHz BW	121
APPENDIX A.7: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	125

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

5.8G SDR, 1.4MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
1.4MHz	Ant3	5728.5	24.06	≤30.00	PASS
	Ant6	5728.5	19.52	≤30.00	PASS
	total	5728.5	25.37	≤30.00	PASS
	Ant3	5784.5	24.03	≤30.00	PASS
	Ant6	5784.5	20.38	≤30.00	PASS
	total	5784.5	25.59	≤30.00	PASS
	Ant3	5846.12	22.74	≤30.00	PASS
	Ant6	5846.12	23.39	≤30.00	PASS
	total	5846.12	26.09	≤30.00	PASS

1.4MHz Ant3 5728.5



1.4MHz Ant6 5728.5



1.4MHz Ant3 5784.5



1.4MHz Ant6 5784.5



1.4MHz Ant3 5846.12



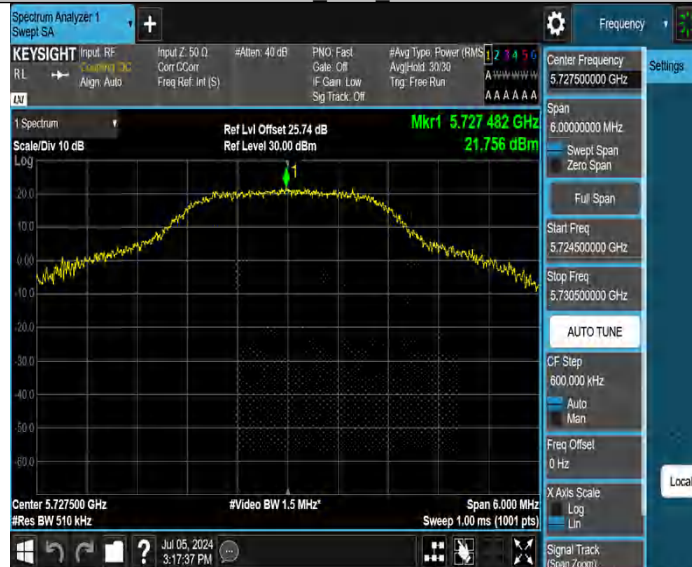
1.4MHz Ant6 5846.12



5.8G SDR, 3MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
3MHz	Ant3	5727.5	21.76	≤30.00	PASS
	Ant6	5727.5	15.80	≤30.00	PASS
	total	5727.5	22.74	≤30.00	PASS
	Ant3	5784.5	21.12	≤30.00	PASS
	Ant6	5784.5	16.94	≤30.00	PASS
	total	5784.5	22.52	≤30.00	PASS
	Ant3	5847.2	20.33	≤30.00	PASS
	Ant6	5847.2	20.19	≤30.00	PASS
	total	5847.2	23.27	≤30.00	PASS

3MHz_Ant3_5727.5



3MHz_Ant6_5727.5



3MHz_Ant3_5784.5



3MHz_Ant6_5784.5



3MHz_Ant3_5847.2



3MHz_Ant6_5847.2



5.8G SDR, 5MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
5MHz	Ant3	5732.5	20.61	≤30.00	PASS
	Ant6	5732.5	13.91	≤30.00	PASS
	total	5732.5	21.45	≤30.00	PASS
	Ant3	5787.5	19.68	≤30.00	PASS
	Ant6	5787.5	14.00	≤30.00	PASS
	total	5787.5	20.72	≤30.00	PASS
	Ant3	5842.5	18.17	≤30.00	PASS
	Ant6	5842.5	16.73	≤30.00	PASS
	total	5842.5	20.52	≤30.00	PASS

The screenshot displays a Spectrum Analyzer interface with the following components:

- Top Bar:**
 - Left: Spectrum Analyzer 1, Swept SA, and a '+' button.
 - Right: A gear icon for settings and a 'Frequency' dropdown menu.
- Control Panel (Top):**
 - Inputs:** Input 1: 50.0, Corr: CCorr, Freq Ref: Int (S).
 - Attenuation:** #Atten: 30 dB.
 - Filters:** PNO: Fast, Gate: Off, IF Gain: Low, Sig Track: Off.
 - Power/Avg:** #Avg Type: Power (RMS), Avg Hold: 30.30, Tag: Free Run.
 - Readings:** 7.3450, A A A A A A A A.
- Main Display:**
 - Graph:** A spectrum plot with a yellow trace showing a signal peak. The y-axis is labeled 'Spectrum' and 'Log'. The x-axis is labeled 'Center 5.732500 GHz' and '#Res BW 510 kHz'.
 - Annotations:** 'Mkr1 5.732 53 GHz' and '20.608 dBm' are displayed in green.
 - Reference Levels:** 'Ref Lvl Offset 26.04 dB' and 'Ref Level 20.00 dBm'.
 - Resolution Bandwidth:** '#Video BW 1.5 MHz'.
 - Span and Sweep:** 'Span 10.00 MHz' and 'Sweep 1.00 ms (1001 pts)'.
- Right Panel (Settings):**
 - Center Frequency:** 5.732500000 GHz.
 - Span:** 10.00000000 MHz.
 - Start Freq:** 5.727500000 GHz.
 - Stop Freq:** 5.737500000 GHz.
 - AUTO TUNE:** A button to auto-tune the center frequency.
 - CF Step:** 1.000000 MHz.
 - Freq Offset:** 0 Hz.
 - X Axis Scale:** Log (selected) or Lin.
 - Signal Track:** A dropdown menu showing 'Sweep/Zero'.
- Bottom Bar:**
 - Left: Windows taskbar icons and a date/time display (Jul 05, 2024, 3:52:41 PM).
 - Right: A 'Local' button.

The screenshot displays a Spectrum Analyzer interface. The main plot area shows a signal trace with a peak labeled "Mkr1 5.732 51 GHz" and "13.907 dBm". The x-axis is labeled "Center 5.732500 GHz" and "Span 10.00 MHz". The y-axis is labeled "Scale/Div 10 dB" and "Log". The interface includes various control panels on the left and right for settings like frequency, span, and resolution.

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF
RL: ☒ Coupling ON ☒ Align Auto

Input Z: 50 Ω
Corr: Corr
Freq Ref: Int (S)

#Atten: 30 dB
PKG: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

#Avg Type: Power (RMS) **1 2 3 4 5 6**
Avg Hold: 30.30
Trig: Free Run
AAA A A A A A

Center Frequency
5.787500000 GHz

Span
10.00000000 MHz
Sweep Span
Zero Span
Full Span

Start Freq
5.782500000 GHz

Stop Freq
5.792500000 GHz

AUTO TUNE

CF Step
1.0000000 MHz
Auto
Man

Freq Offset
0 Hz

X Axis Scale
Log
Lin

Center 5.787500 GHz
#Res BW 150 kHz

#Video BW 1.5 MHz*

Span 10.00 MHz
Sweep 1.00 ms (1001 pts)

Jul 05, 2024
3:58:35 PM

Signal Track
(None/Zero)

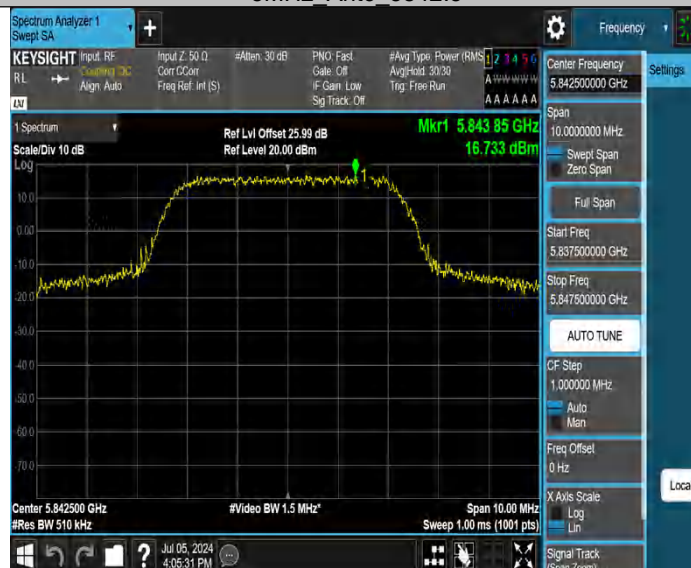
5MHz_Ant6_5787.5



5MHz_Ant3_5842.5



5MHz_Ant6_5842.5



5.8G SDR, 10MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
10MHz	Ant3	5730.5	19.01	≤30.00	PASS
	Ant6	5730.5	13.22	≤30.00	PASS
	total	5730.5	20.03	≤30.00	PASS
	Ant3	5787.5	17.32	≤30.00	PASS
	Ant6	5787.5	13.16	≤30.00	PASS
	total	5787.5	18.73	≤30.00	PASS
	Ant3	5844.5	15.92	≤30.00	PASS
	Ant6	5844.5	14.28	≤30.00	PASS
	total	5844.5	18.19	≤30.00	PASS

10MHz Ant3 5730.5



10MHz Ant6 5730.5



10MHz Ant3 5787.5



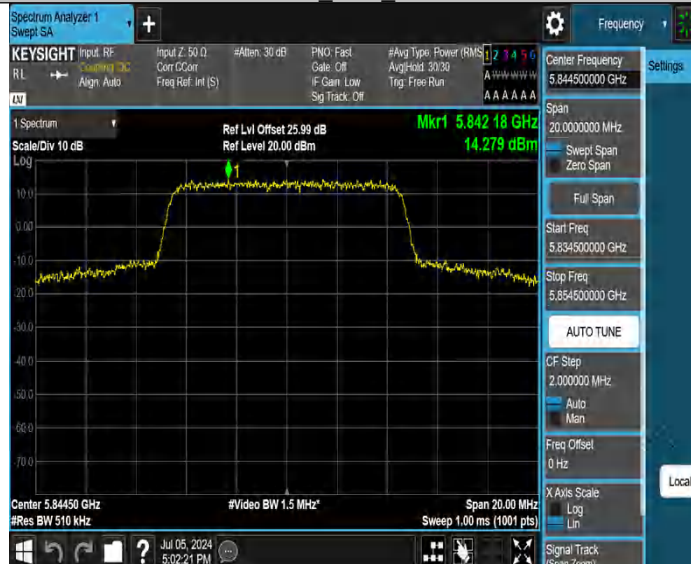
10MHz Ant6 5787.5



10MHz Ant3 5844.5



10MHz Ant6 5844.5



5.8G SDR, 20MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
20MHz	Ant3	5735.5	14.50	≤30.00	PASS
	Ant6	5735.5	9.03	≤30.00	PASS
	total	5735.5	15.58	≤30.00	PASS
	Ant3	5787.5	13.90	≤30.00	PASS
	Ant6	5787.5	9.81	≤30.00	PASS
	total	5787.5	15.33	≤30.00	PASS
	Ant3	5839.5	12.62	≤30.00	PASS
	Ant6	5839.5	10.81	≤30.00	PASS
	total	5839.5	14.82	≤30.00	PASS



20MHz Ant6 5787.5



20MHz Ant3 5839.5



20MHz Ant6 5839.5



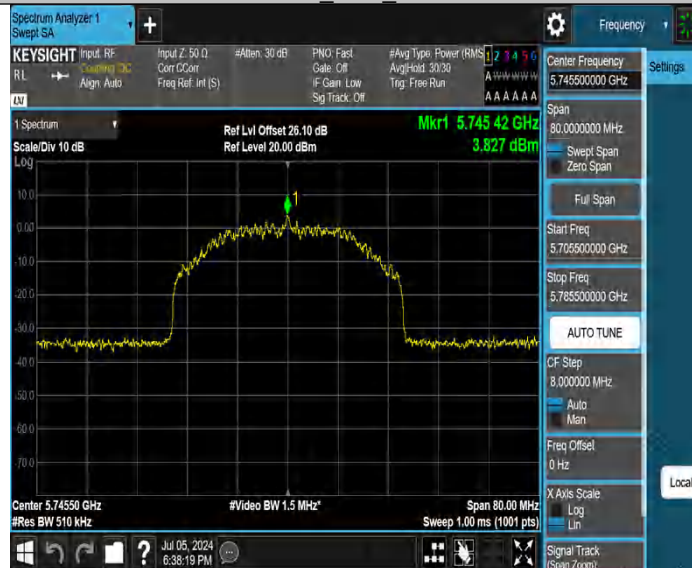
5.8G SDR, 40MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
40MHz	Ant3	5745.5	11.50	≤30.00	PASS
	Ant6	5745.5	3.83	≤30.00	PASS
	total	5745.5	12.19	≤30.00	PASS
	Ant3	5787.5	12.03	≤30.00	PASS
	Ant6	5787.5	4.87	≤30.00	PASS
	total	5787.5	12.79	≤30.00	PASS
	Ant3	5829.5	7.22	≤30.00	PASS
	Ant6	5829.5	2.67	≤30.00	PASS
	total	5829.5	8.53	≤30.00	PASS

40MHz Ant3 5745.5



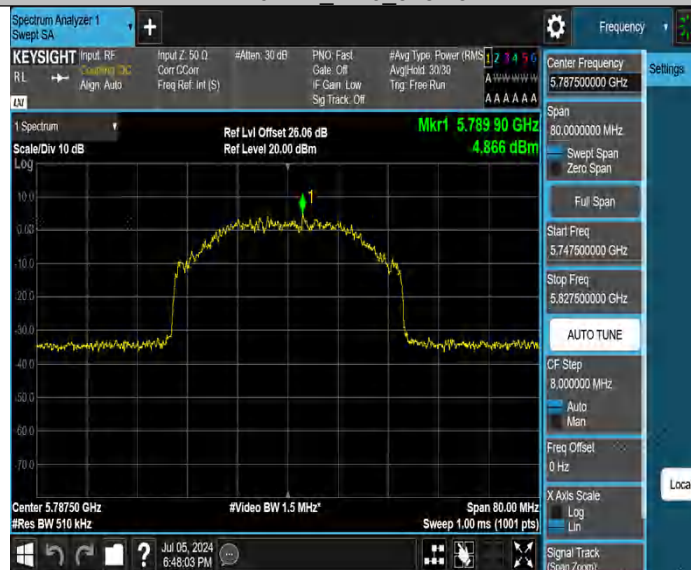
40MHz Ant6 5745.5



40MHz Ant3 5787.5



40MHz Ant6 5787.5



40MHz Ant3 5829.5



40MHz Ant6 5829.5



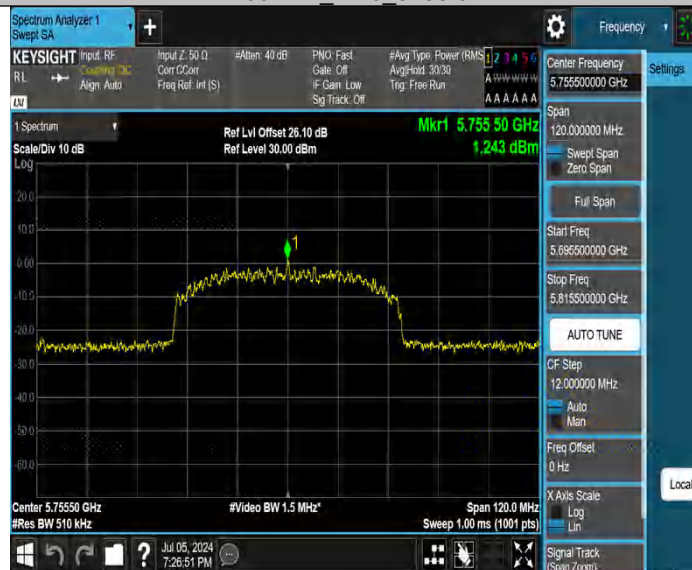
5.8G SDR, 60MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
60MHz	Ant3	5755.5	8.46	≤30.00	PASS
	Ant6	5755.5	1.24	≤30.00	PASS
	total	5755.5	9.21	≤30.00	PASS
	Ant3	5787.5	8.01	≤30.00	PASS
	Ant6	5787.5	-0.03	≤30.00	PASS
	total	5787.5	8.64	≤30.00	PASS
	Ant3	5819.5	6.95	≤30.00	PASS
	Ant6	5819.5	1.32	≤30.00	PASS
	total	5819.5	8.00	≤30.00	PASS

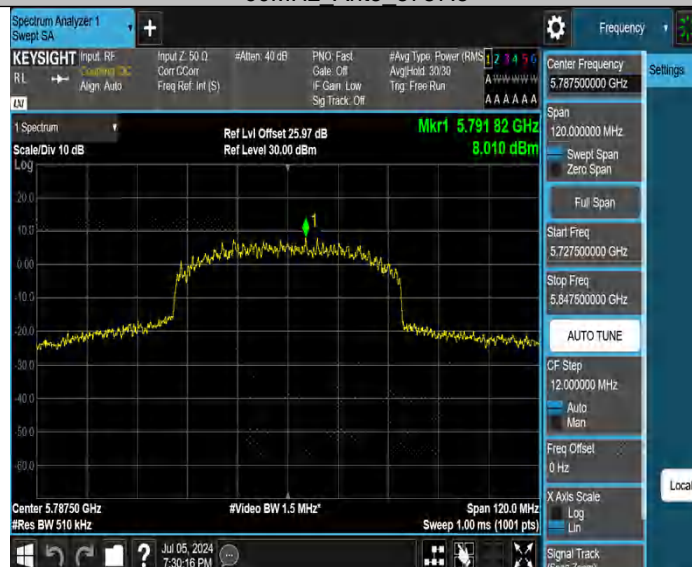
60MHz Ant3 5755.5



60MHz Ant6 5755.5



60MHz Ant3 5787.5



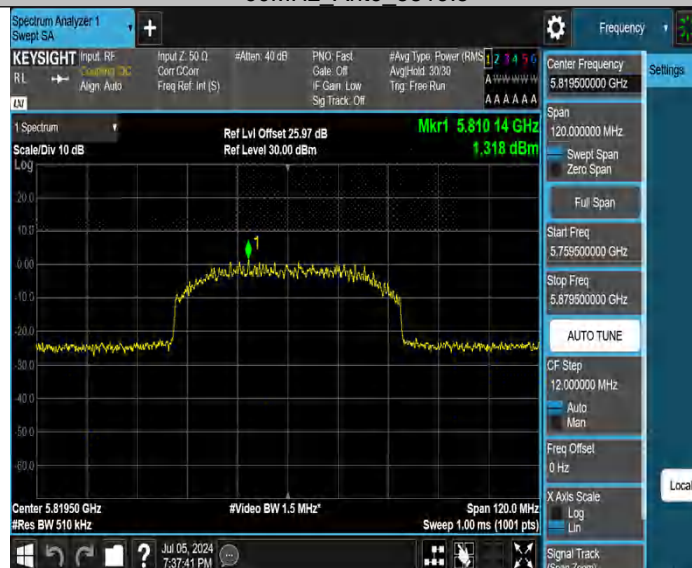
60MHz Ant6 5787.5



60MHz Ant3 5819.5



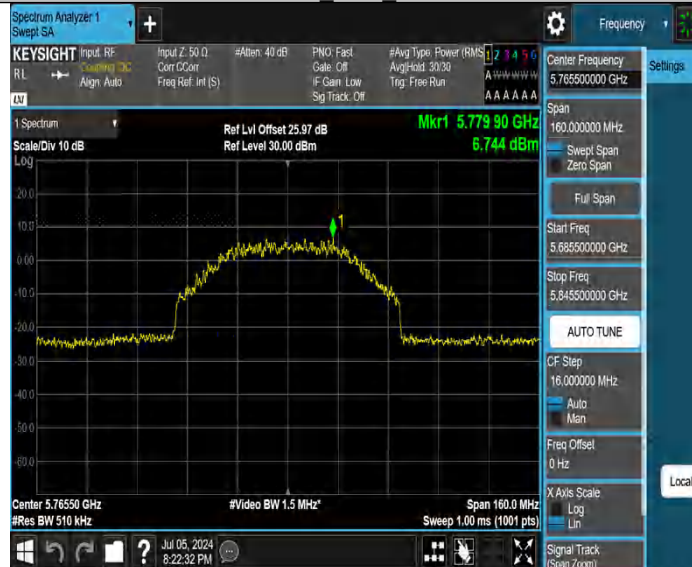
60MHz Ant6 5819.5



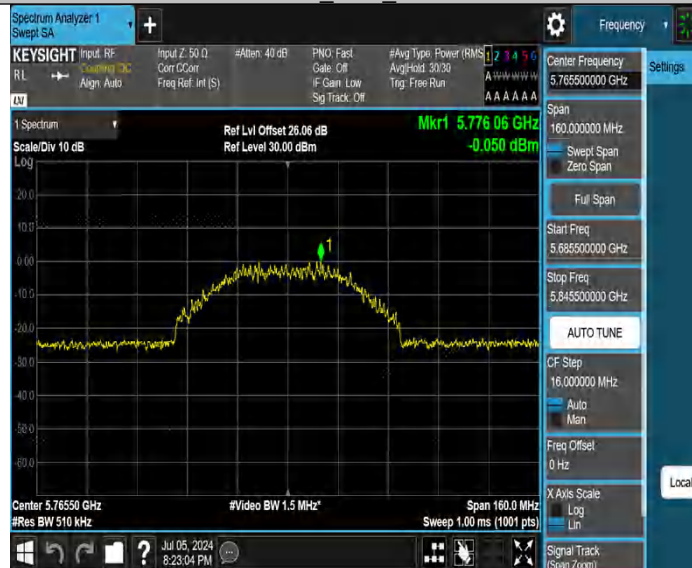
5.8G SDR, 80MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
80MHz	Ant3	5765.5	6.74	≤30.00	PASS
	Ant6	5765.5	-0.05	≤30.00	PASS
	total	5765.5	7.57	≤30.00	PASS
	Ant3	5787.5	7.20	≤30.00	PASS
	Ant6	5787.5	-0.14	≤30.00	PASS
	total	5787.5	7.94	≤30.00	PASS
	Ant3	5809.5	7.88	≤30.00	PASS
	Ant6	5809.5	0.74	≤30.00	PASS
	total	5809.5	8.65	≤30.00	PASS

80MHz Ant3 5765.5



80MHz Ant6 5765.5



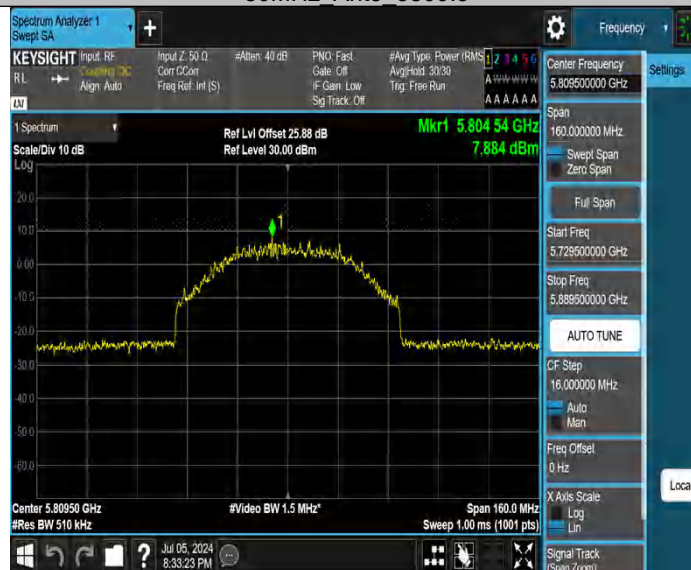
80MHz Ant3 5787.5



80MHz Ant6 5787.5



80MHz Ant3 5809.5



80MHz Ant6 5809.5



Appendix A.2: Test Results of Frequency Stability

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

Voltage							
TestMode	Antenna	Channel	Voltage [Vdc]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
1.4MHz	Ant3	5728.5	na	-7000.00	-1.221960	20	PASS
		5784.5	na	-7000.00	-1.210131	20	PASS
		5846.12	na	-7000.00	-1.197375	20	PASS
3MHz	Ant3	5727.5	na	-7000.00	-1.222174	20	PASS
		5784.5	na	-8000.00	-1.383006	20	PASS
		5847.2	na	-7000.00	-1.197154	20	PASS
5MHz	Ant3	5732.5	na	-7000.00	-1.221108	20	PASS
		5787.5	na	-7000.00	-1.209503	20	PASS
		5842.5	na	-7000.00	-1.198117	20	PASS
10MHz	Ant3	5730.5	na	-7000.00	-1.221534	20	PASS
		5787.5	na	-7000.00	-1.209503	20	PASS
		5844.5	na	-7000.00	-1.197707	20	PASS
20MHz	Ant3	5735.5	na	-7000.00	-1.220469	20	PASS
		5787.5	na	-7000.00	-1.209503	20	PASS
		5839.5	na	-7000.00	-1.198733	20	PASS
40MHz	Ant3	5745.5	na	-7000.00	-1.218345	20	PASS
		5787.5	na	-7000.00	-1.209503	20	PASS
		5829.5	na	-7000.00	-1.200789	20	PASS
60MHz	Ant3	5755.5	na	-7000.00	-1.216228	20	PASS
		5787.5	na	-7000.00	-1.209503	20	PASS
		5819.5	na	-7000.00	-1.202852	20	PASS
80MHz	Ant3	5765.5	na	-8000.00	-1.387564	20	PASS
		5787.5	na	-7000.00	-1.209503	20	PASS
		5809.5	na	-7000.00	-1.204923	20	PASS

Appendix A.3: 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.

5.8G SDR, 1.4MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4MHz	Ant3	5728.5	1.112	5727.926	5729.038	0.5	PASS
		5784.5	1.131	5783.926	5785.057	0.5	PASS
		5846.12	1.117	5845.560	5846.677	0.5	PASS

1.4MHz Ant3 5728.5



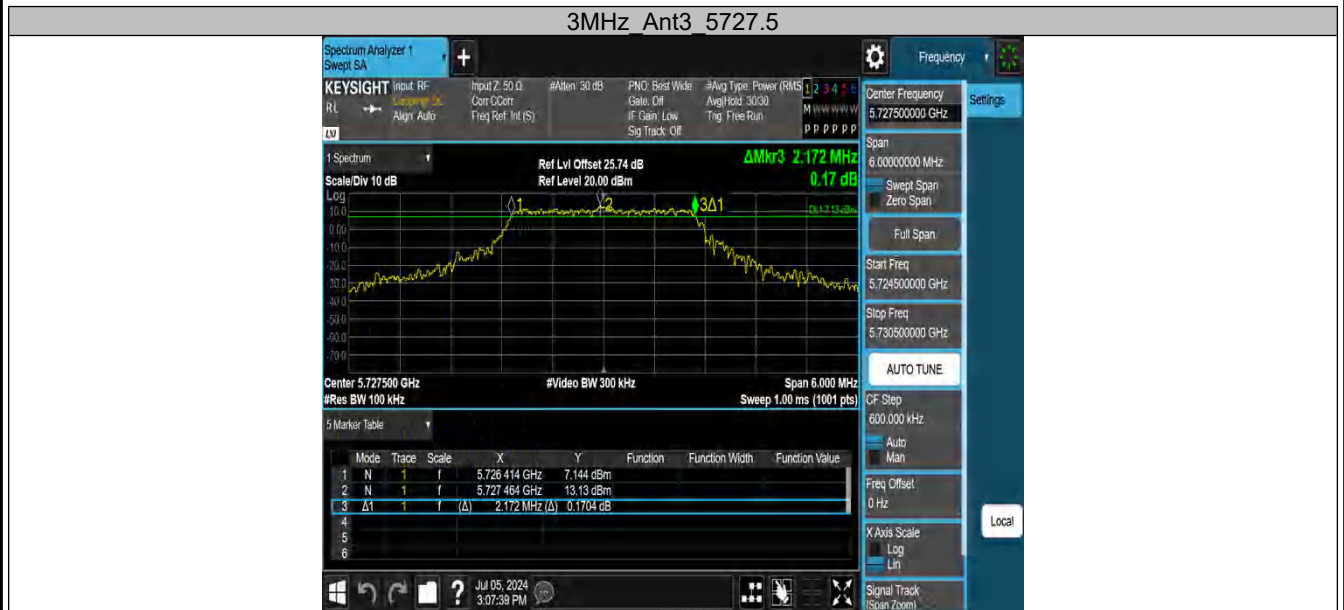
1.4MHz Ant3 5784.5





5.8G SDR, 3MHz BW

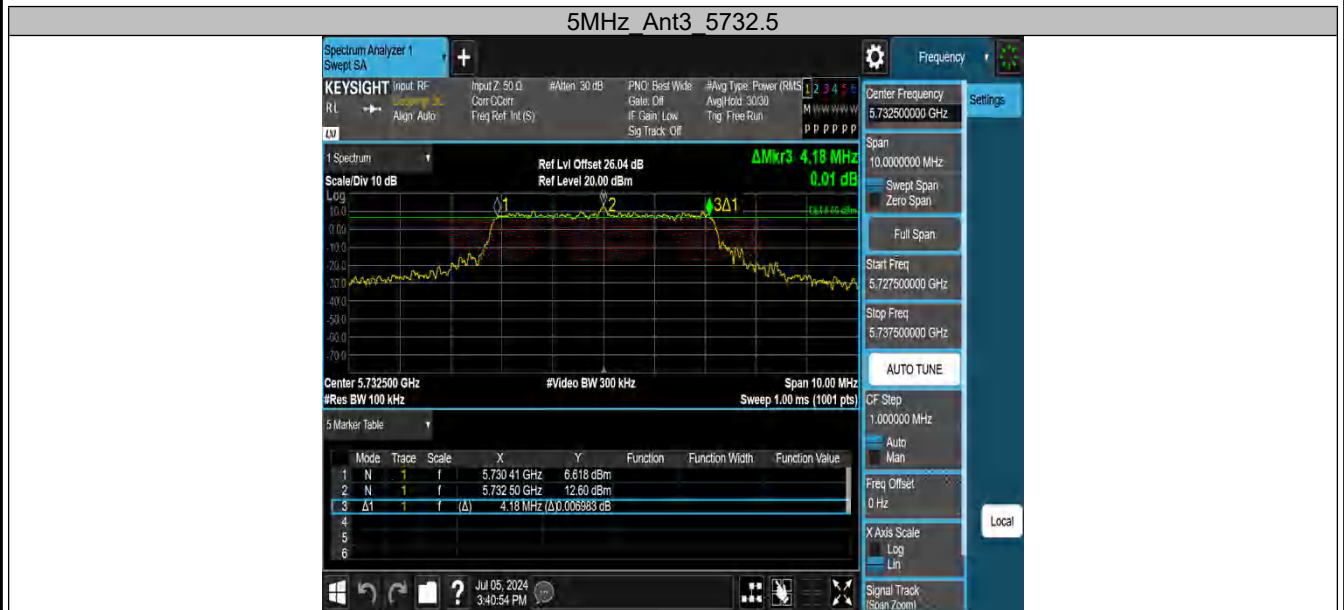
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3MHz	Ant3	5727.5	2.172	5726.414	5728.586	0.5	PASS
		5784.5	2.178	5783.402	5785.580	0.5	PASS
		5847.2	2.178	5846.108	5848.286	0.5	PASS





5.8G SDR, 5MHz BW

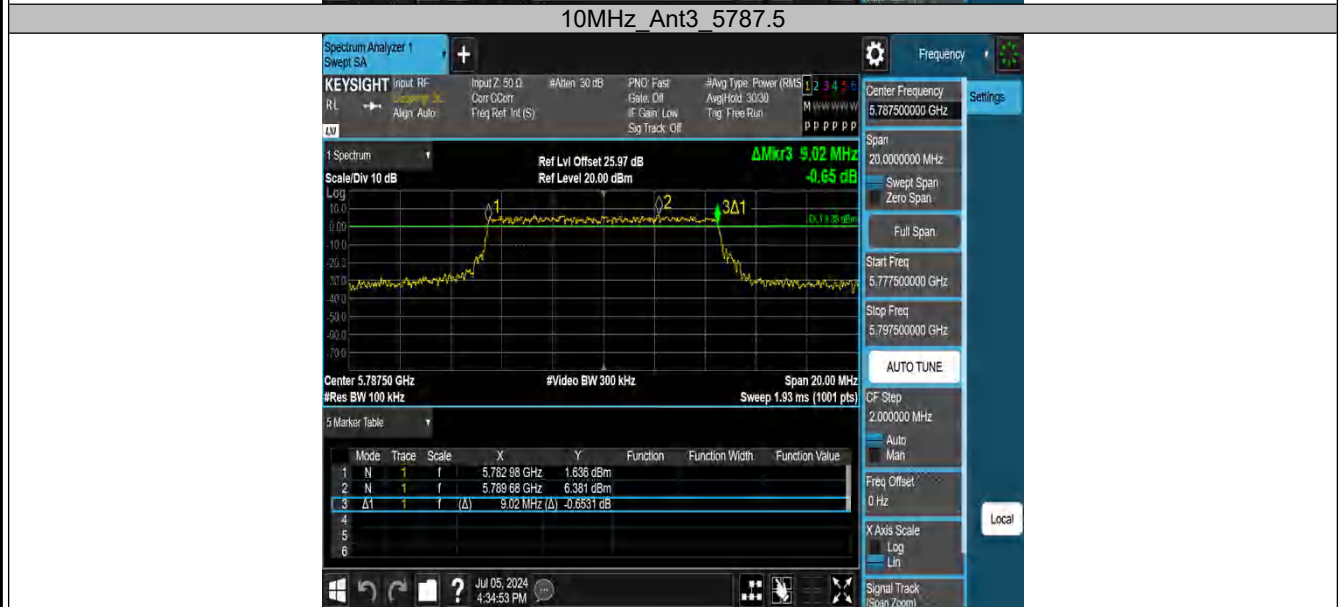
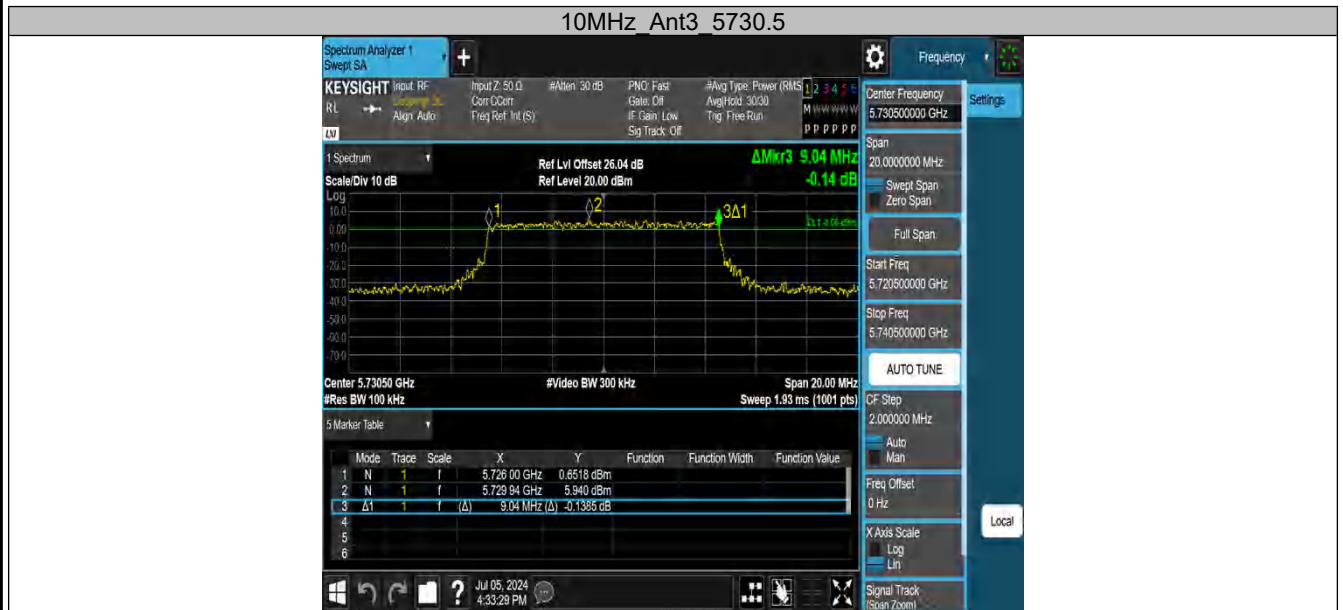
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
5MHz	Ant3	5732.5	4.180	5730.410	5734.590	0.5	PASS
		5787.5	4.300	5785.350	5789.650	0.5	PASS
		5842.5	4.330	5840.340	5844.670	0.5	PASS

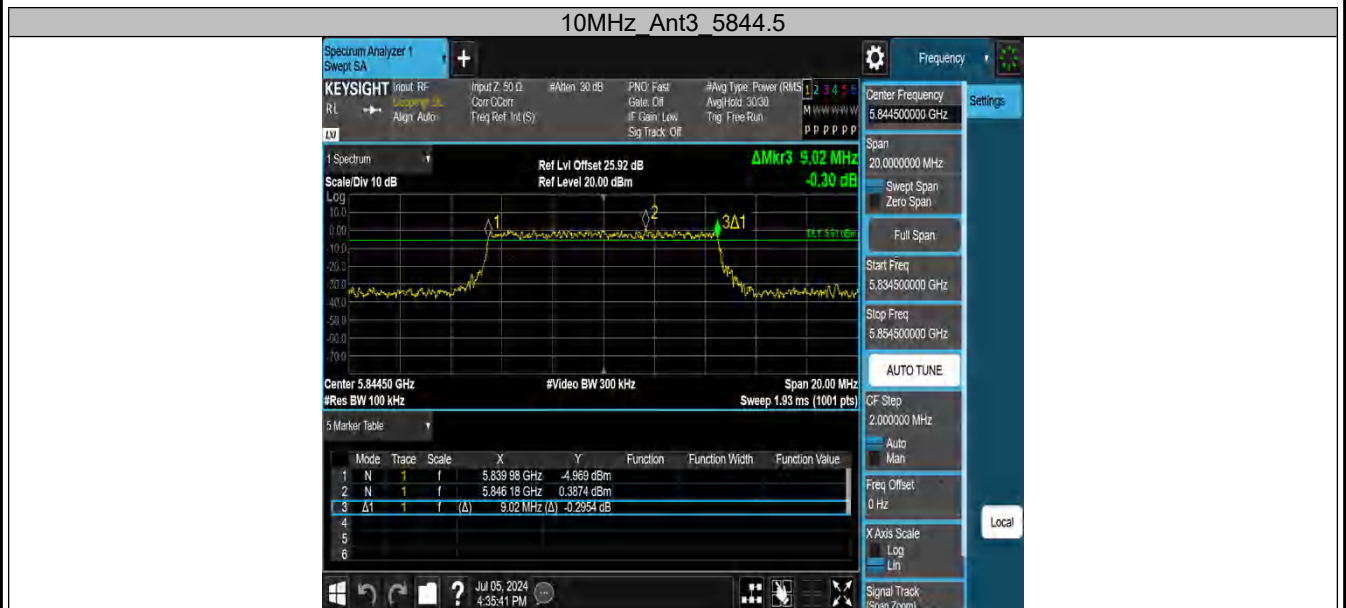




5.8G SDR, 10MHz BW

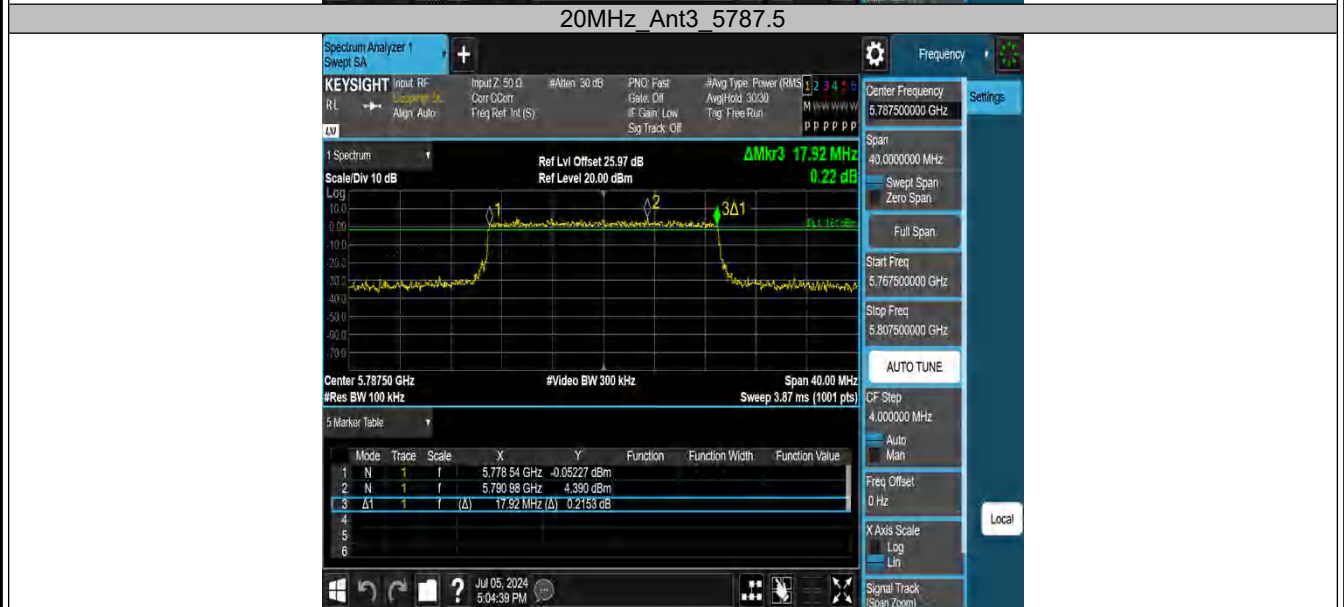
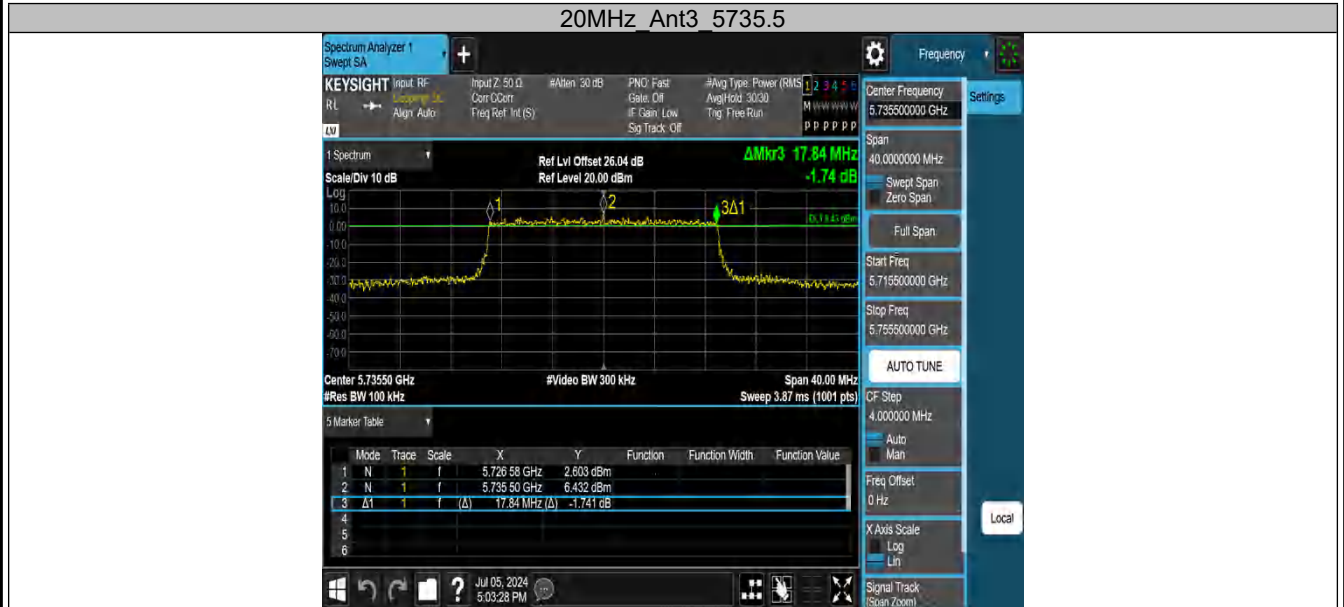
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10MHz	Ant3	5730.5	9.040	5726.000	5735.040	0.5	PASS
		5787.5	9.020	5782.980	5792.000	0.5	PASS
		5844.5	9.020	5839.980	5849.000	0.5	PASS

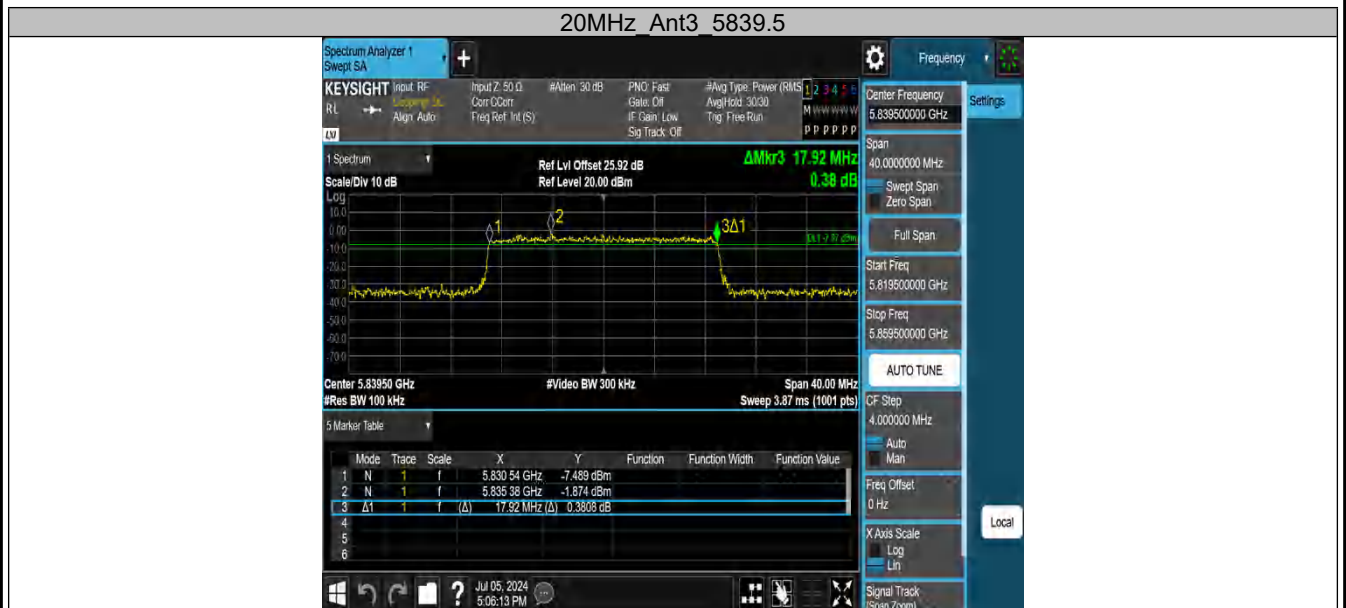




5.8G SDR, 20MHz BW

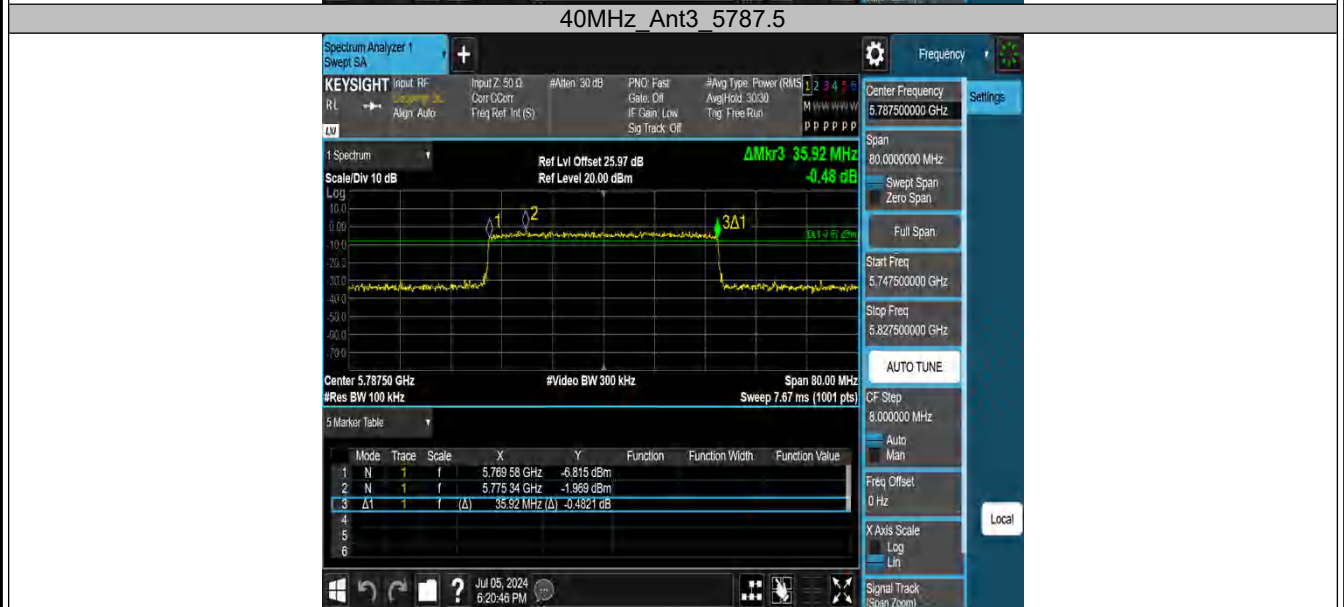
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20MHz	Ant3	5735.5	17.840	5726.580	5744.420	0.5	PASS
		5787.5	17.920	5778.540	5796.460	0.5	PASS
		5839.5	17.920	5830.540	5848.460	0.5	PASS

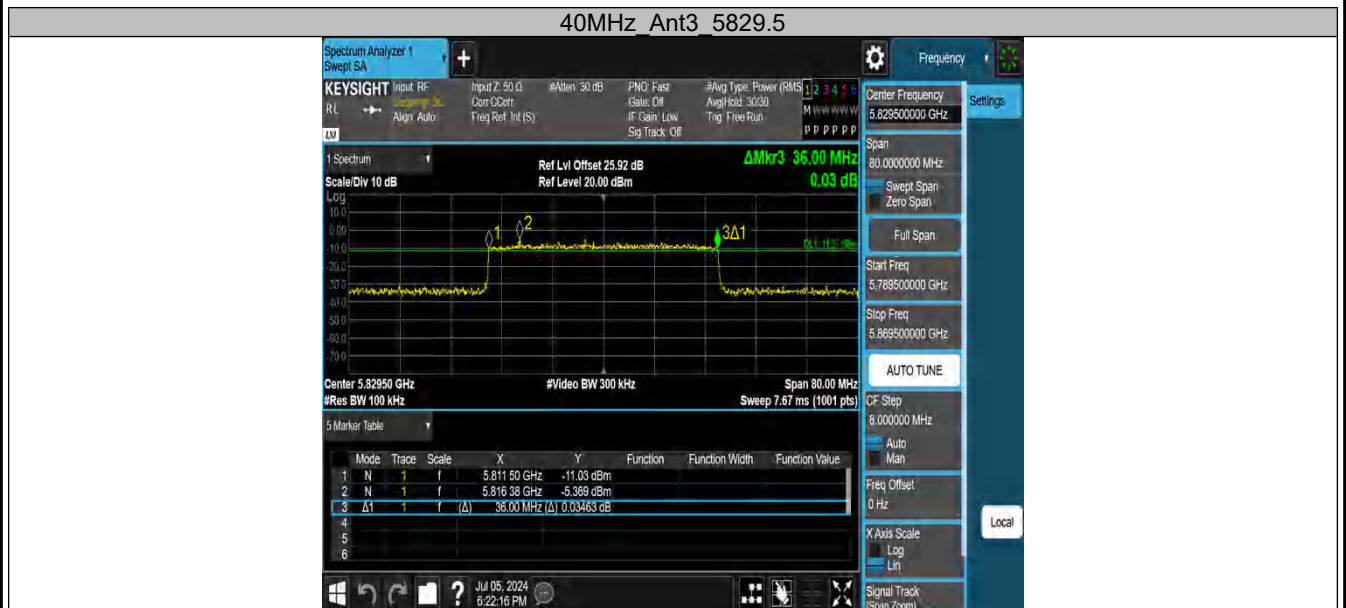




5.8G SDR, 40MHz BW

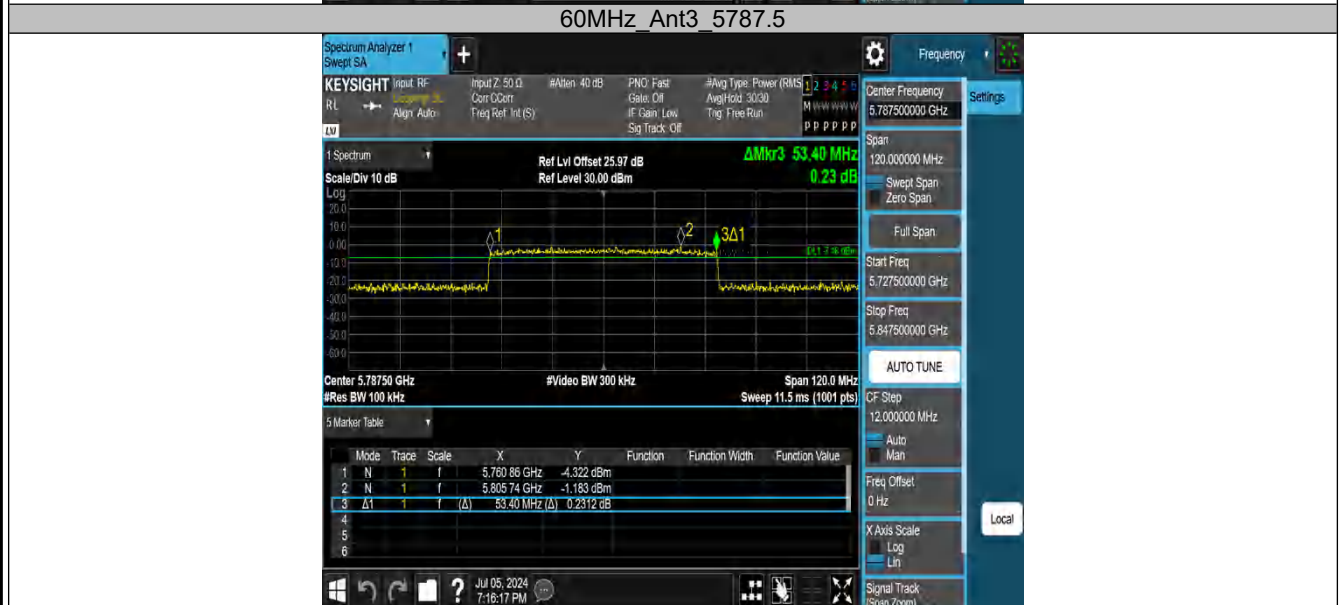
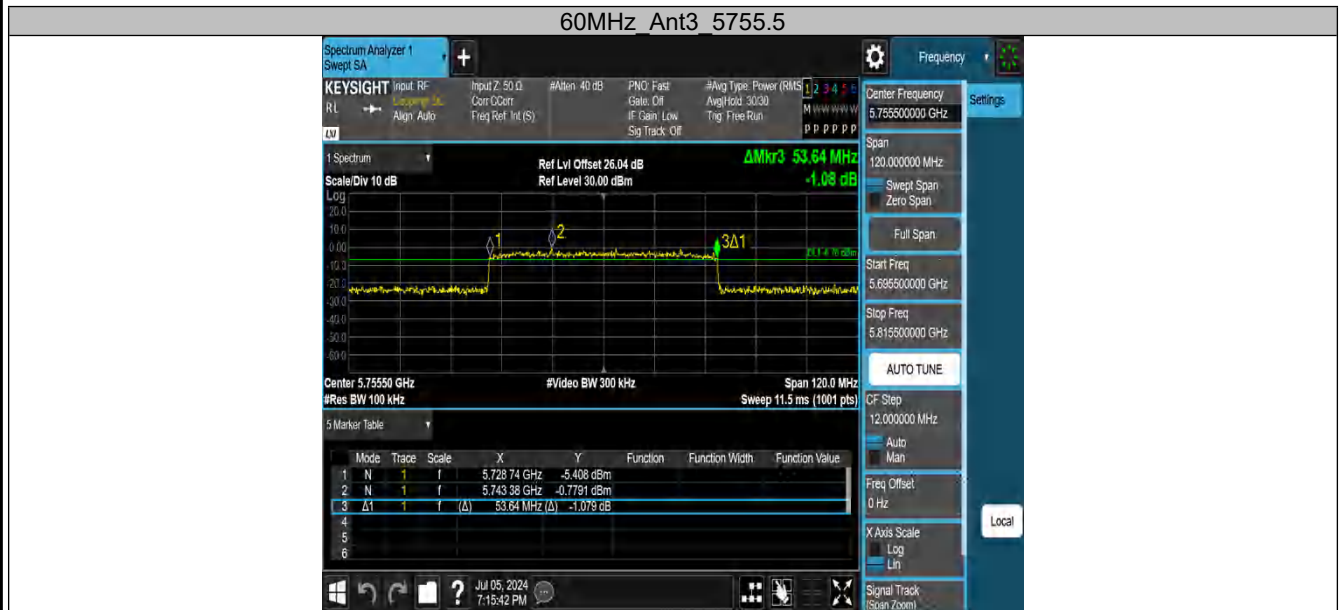
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40MHz	Ant3	5745.5	36.000	5727.500	5763.500	0.5	PASS
		5787.5	35.920	5769.580	5805.500	0.5	PASS
		5829.5	36.000	5811.500	5847.500	0.5	PASS

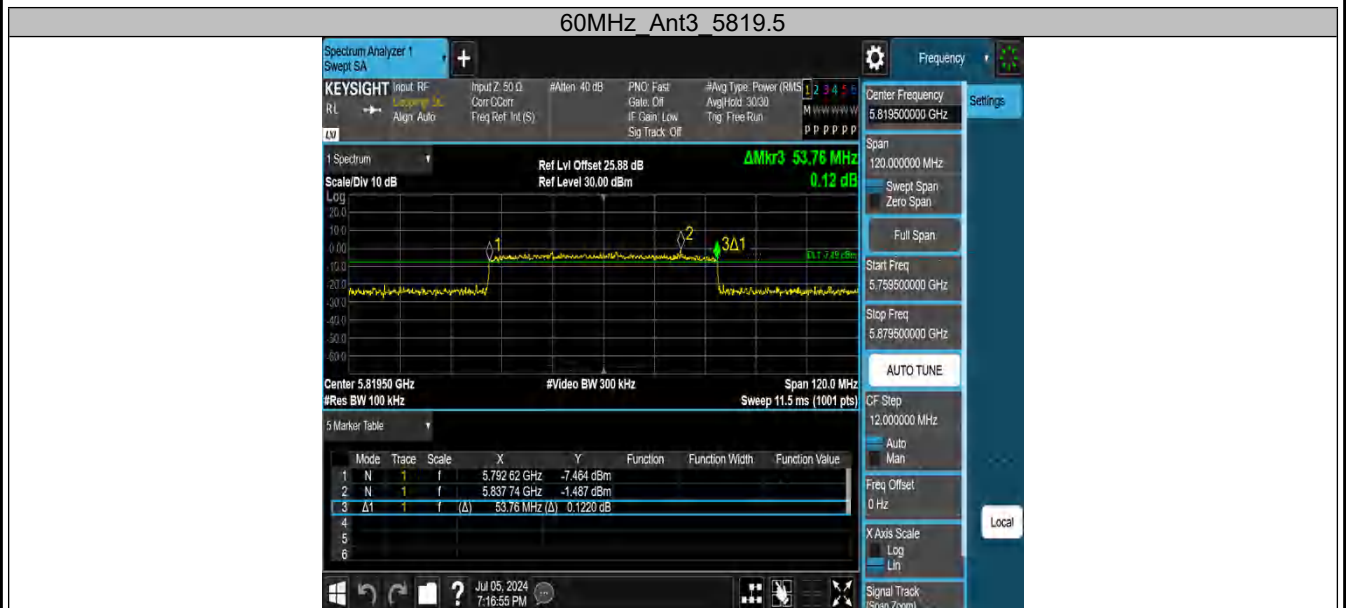




5.8G SDR, 60MHz BW

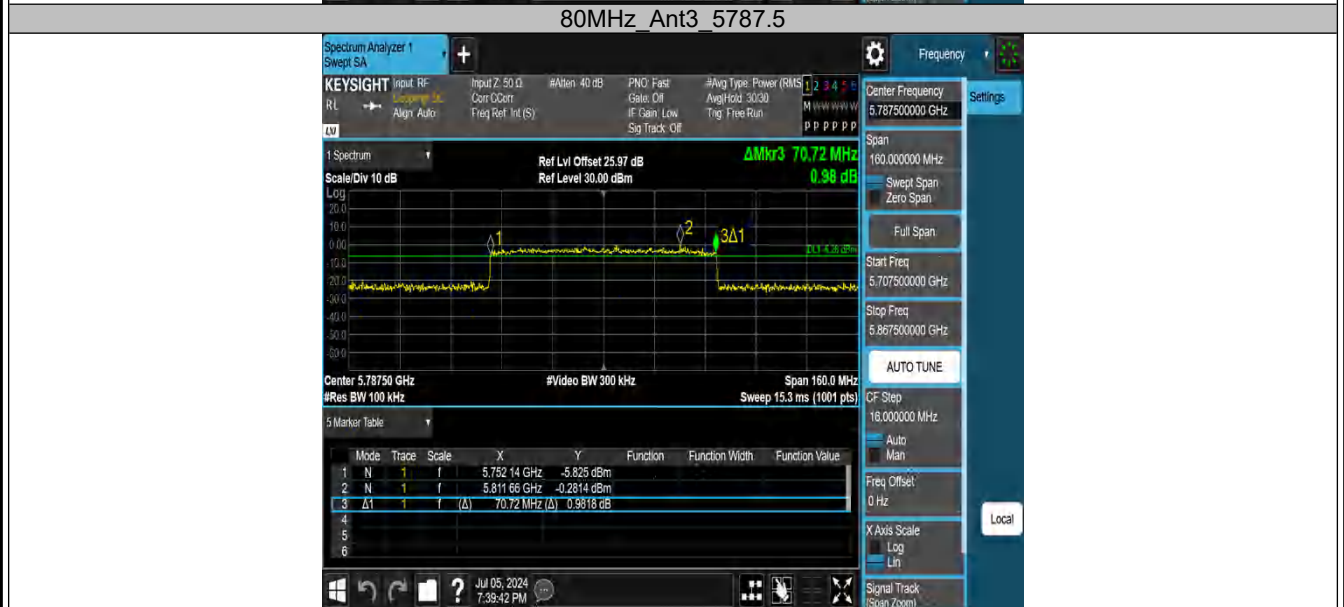
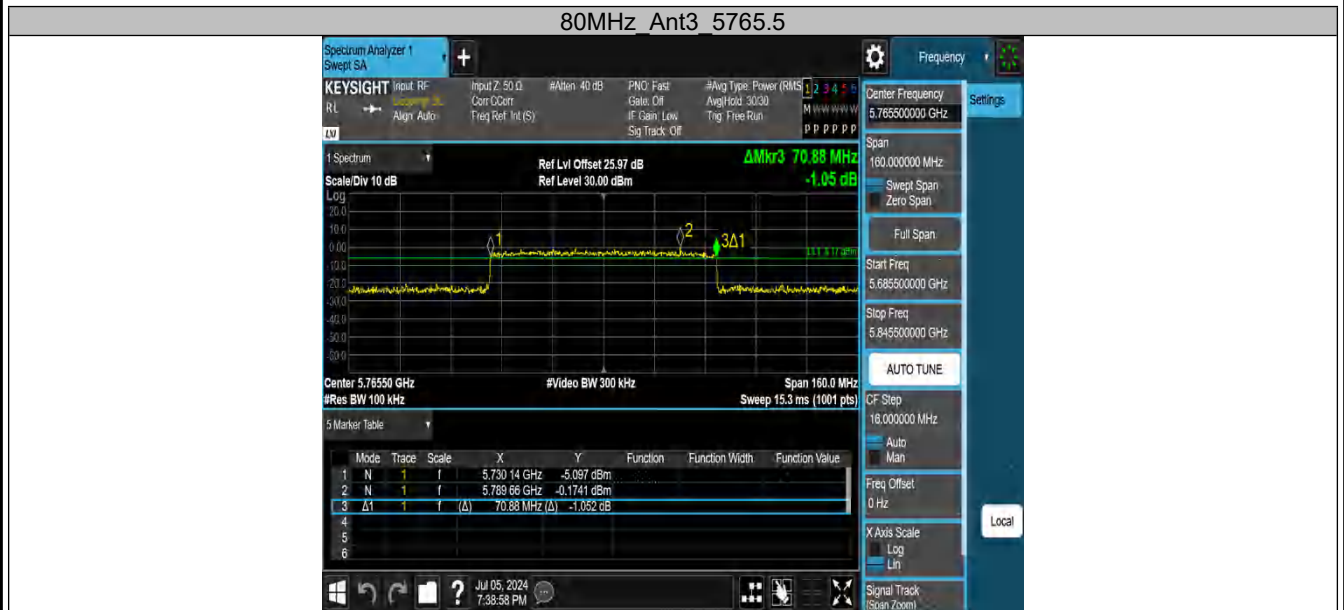
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
60MHz	Ant3	5755.5	53.640	5728.740	5782.380	0.5	PASS
		5787.5	53.400	5760.860	5814.260	0.5	PASS
		5819.5	53.760	5792.620	5846.380	0.5	PASS

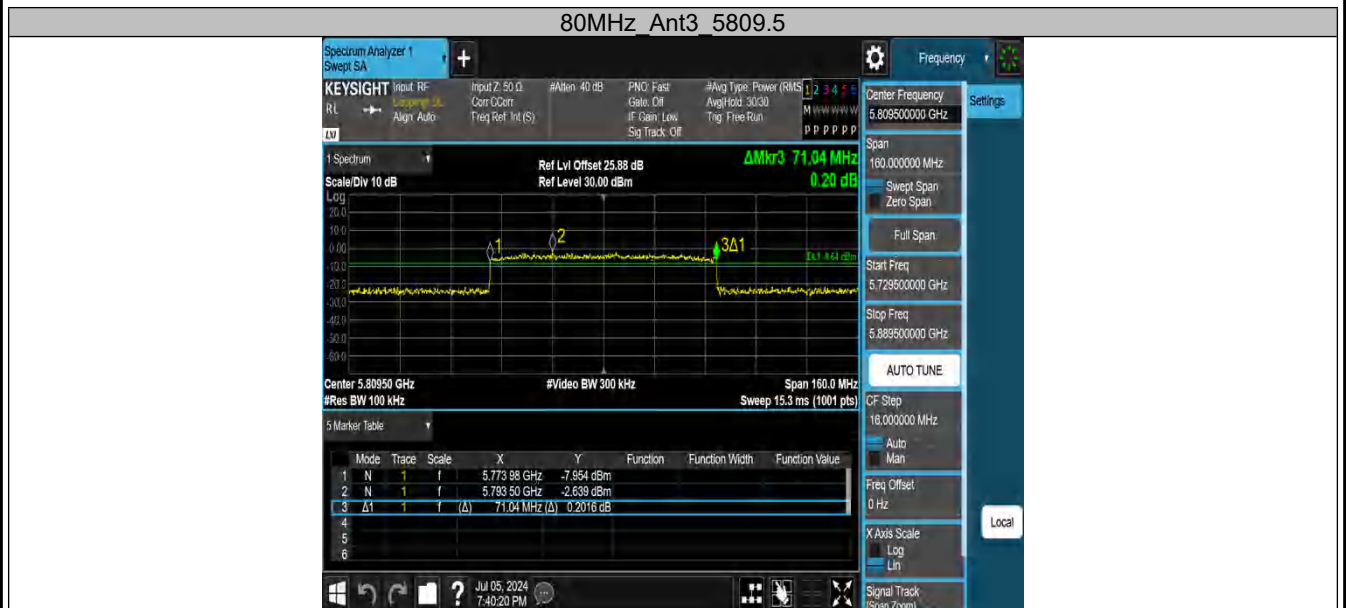




5.8G SDR, 80MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
80MHz	Ant3	5765.5	70.880	5730.140	5801.020	0.5	PASS
		5787.5	70.720	5752.140	5822.860	0.5	PASS
		5809.5	71.040	5773.980	5845.020	0.5	PASS





Appendix A.4: 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.

5.8G SDR, 1.4MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4MHz	Ant3	5728.5	1.1785	5727.9072	5729.0857	---	PASS
		5784.5	1.1687	5783.9125	5785.0812	---	PASS
		5846.12	1.1616	5845.5381	5846.6997	---	PASS

1.4MHz Ant3 5728.5



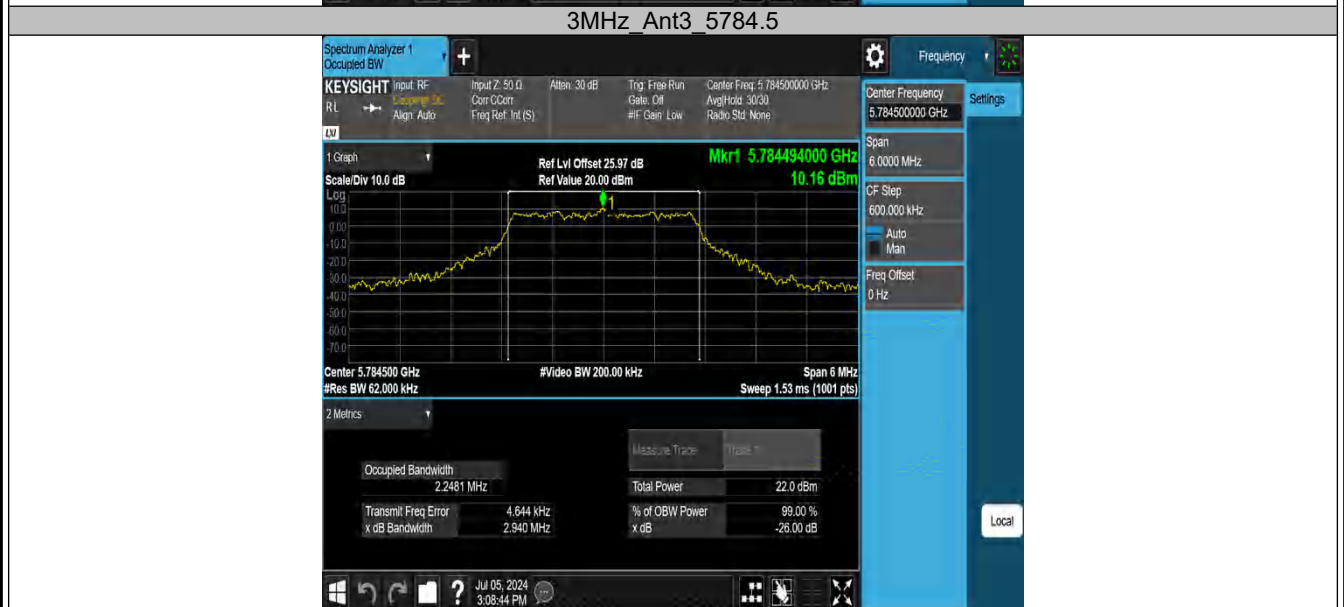
1.4MHz Ant3 5784.5





5.8G SDR, 3MHz BW

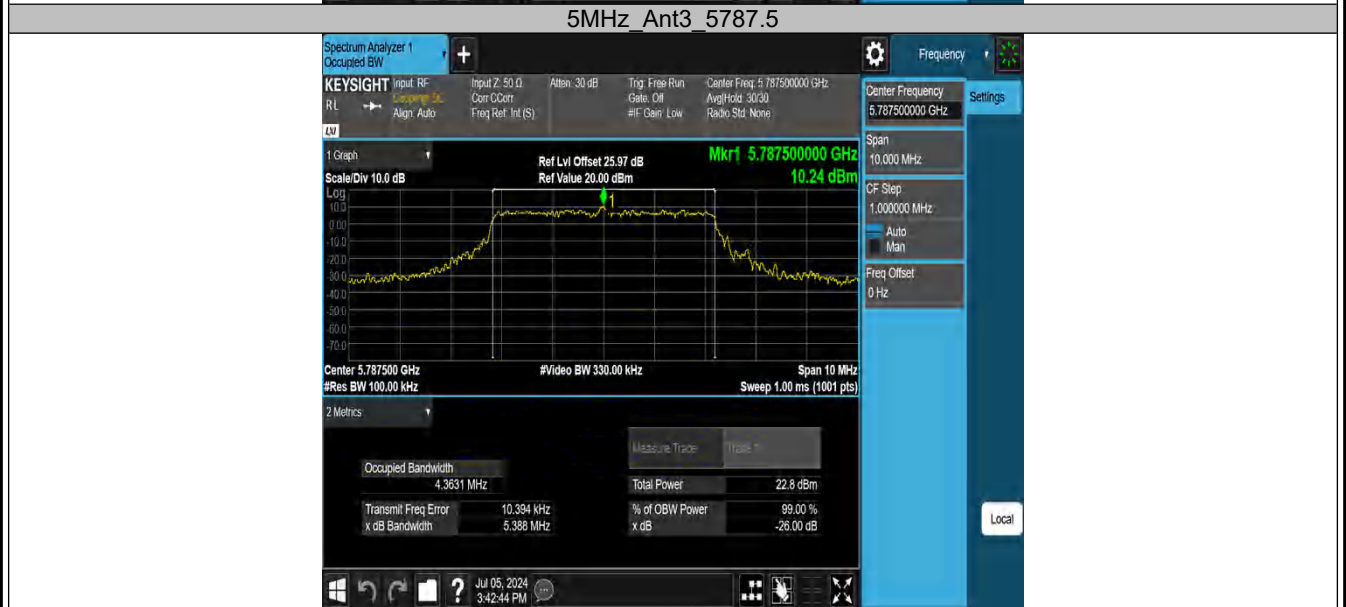
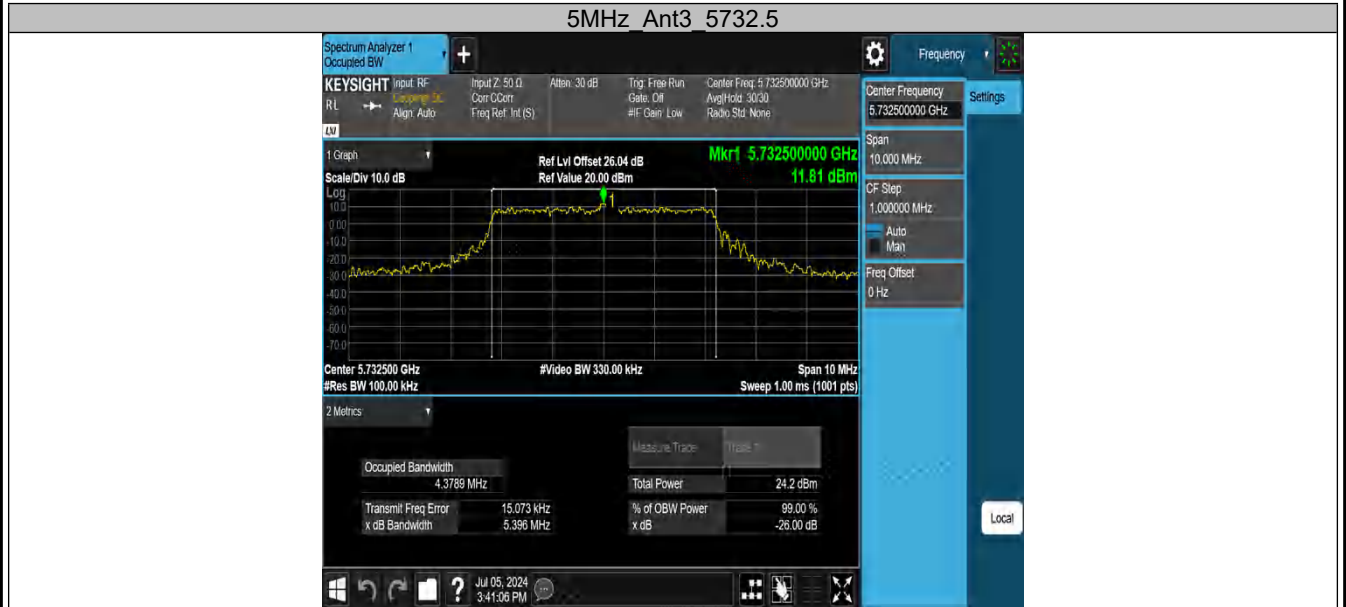
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3MHz	Ant3	5727.5	2.2476	5726.3810	5728.6286	---	PASS
		5784.5	2.2481	5783.3806	5785.6287	---	PASS
		5847.2	2.2452	5846.0770	5848.3222	---	PASS





5.8G SDR, 5MHz BW

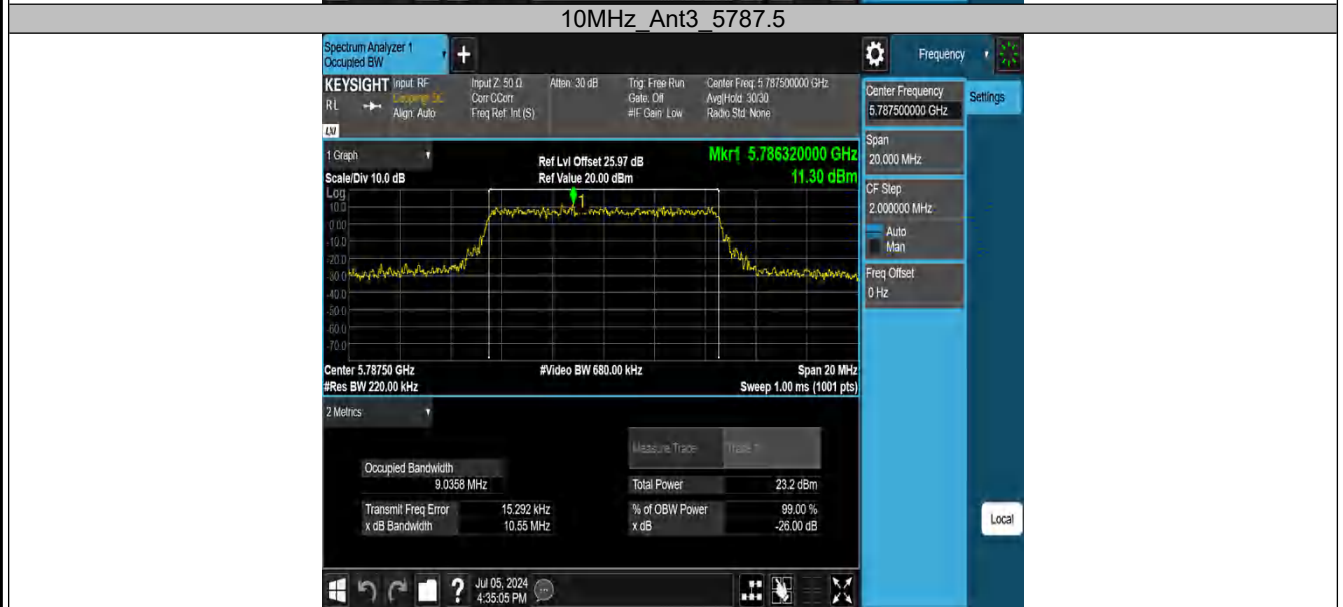
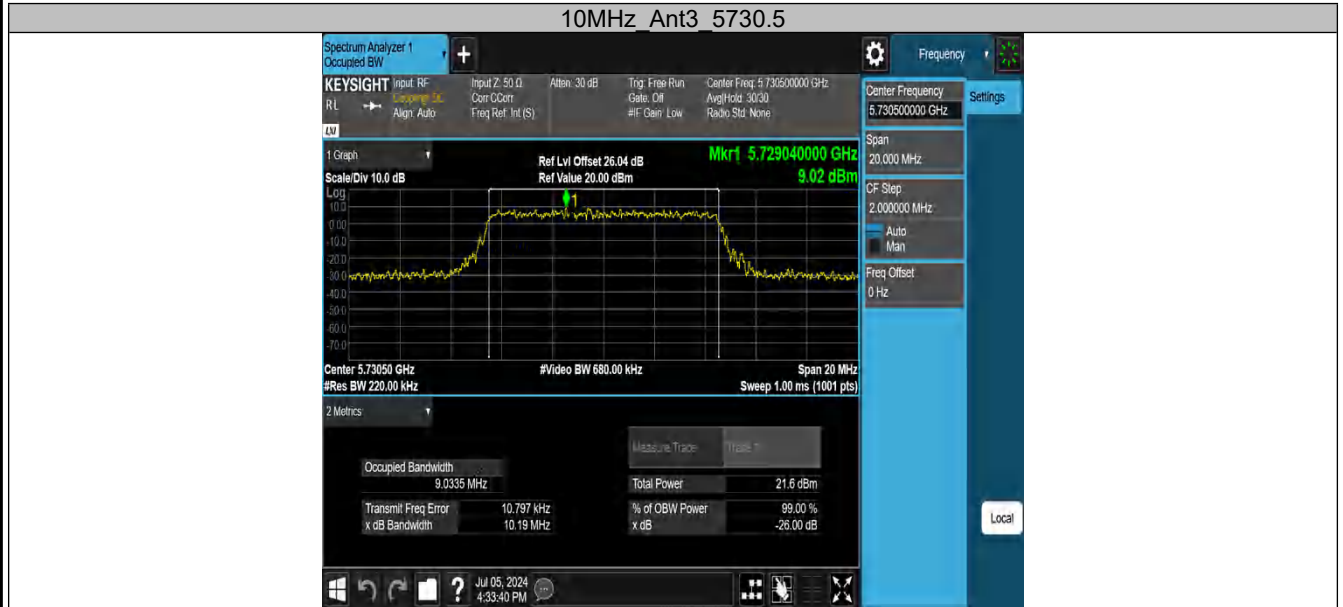
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
5MHz	Ant3	5732.5	4.3789	5730.3256	5734.7045	---	PASS
		5787.5	4.3631	5785.3288	5789.6919	---	PASS
		5842.5	4.3908	5840.3252	5844.7160	---	PASS

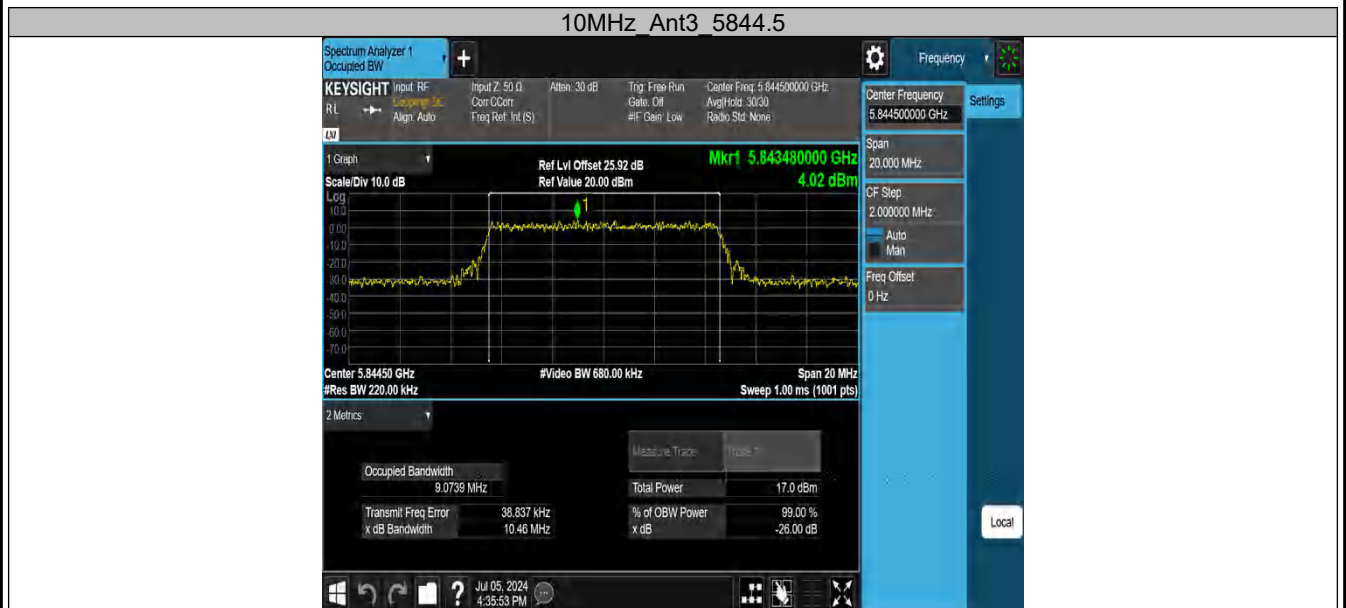




5.8G SDR, 10MHz BW

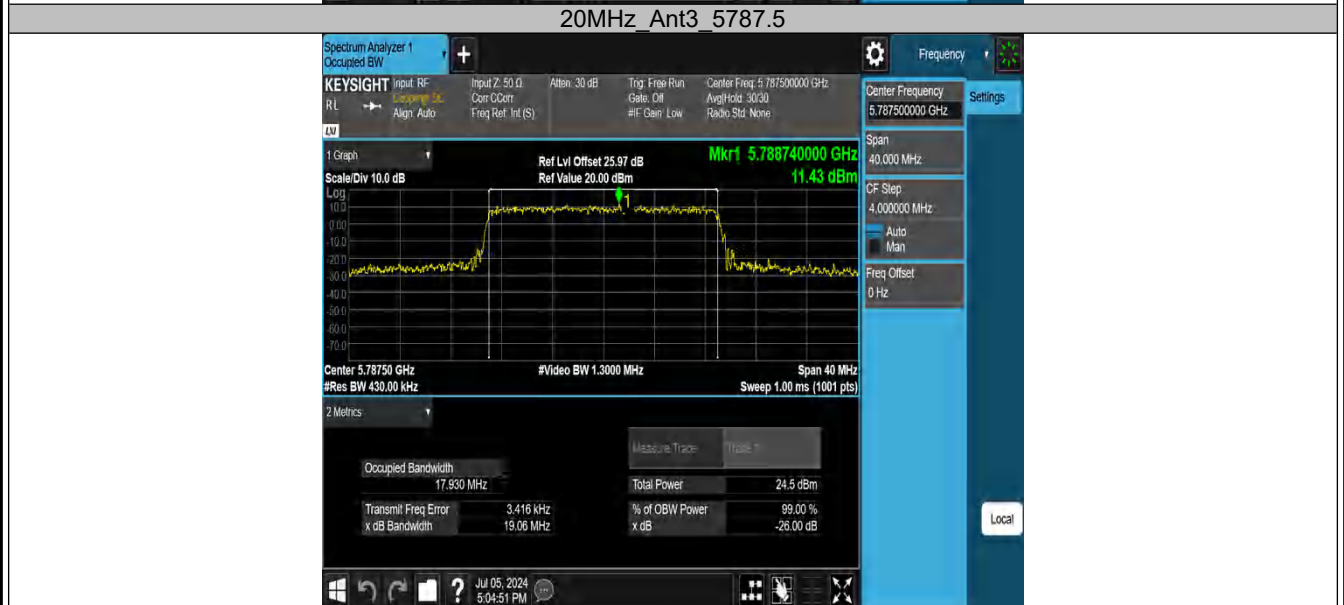
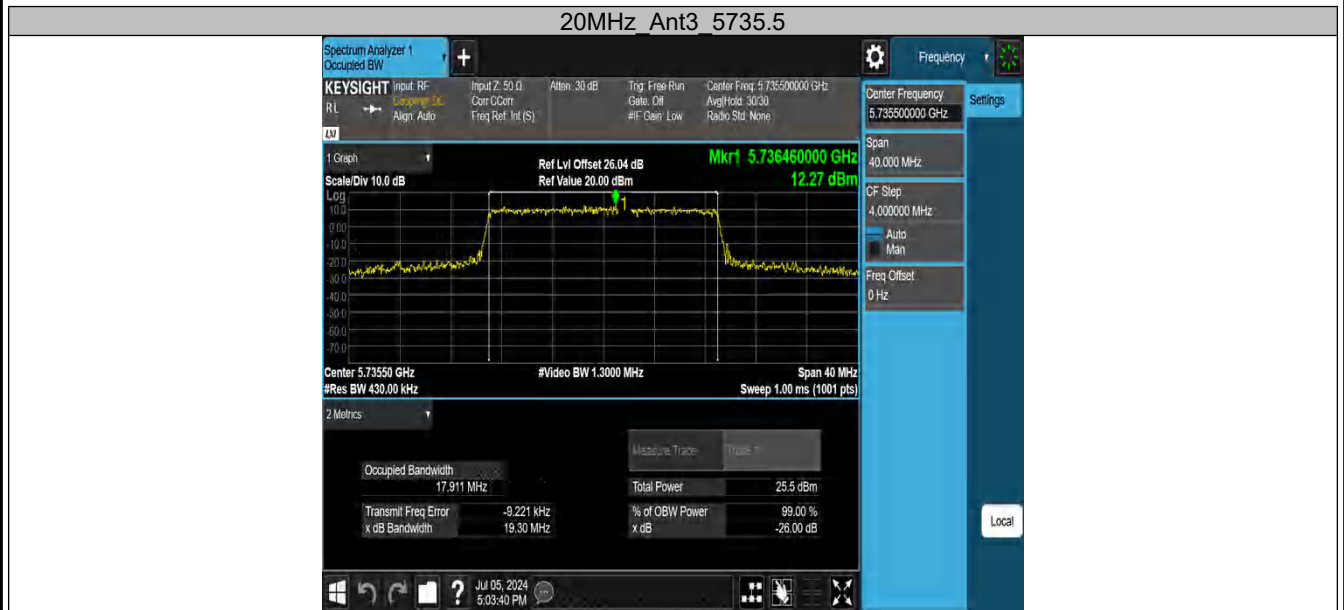
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10MHz	Ant3	5730.5	9.0335	5725.9941	5735.0276	---	PASS
		5787.5	9.0358	5782.9974	5792.0332	---	PASS
		5844.5	9.0739	5840.0019	5849.0758	---	PASS

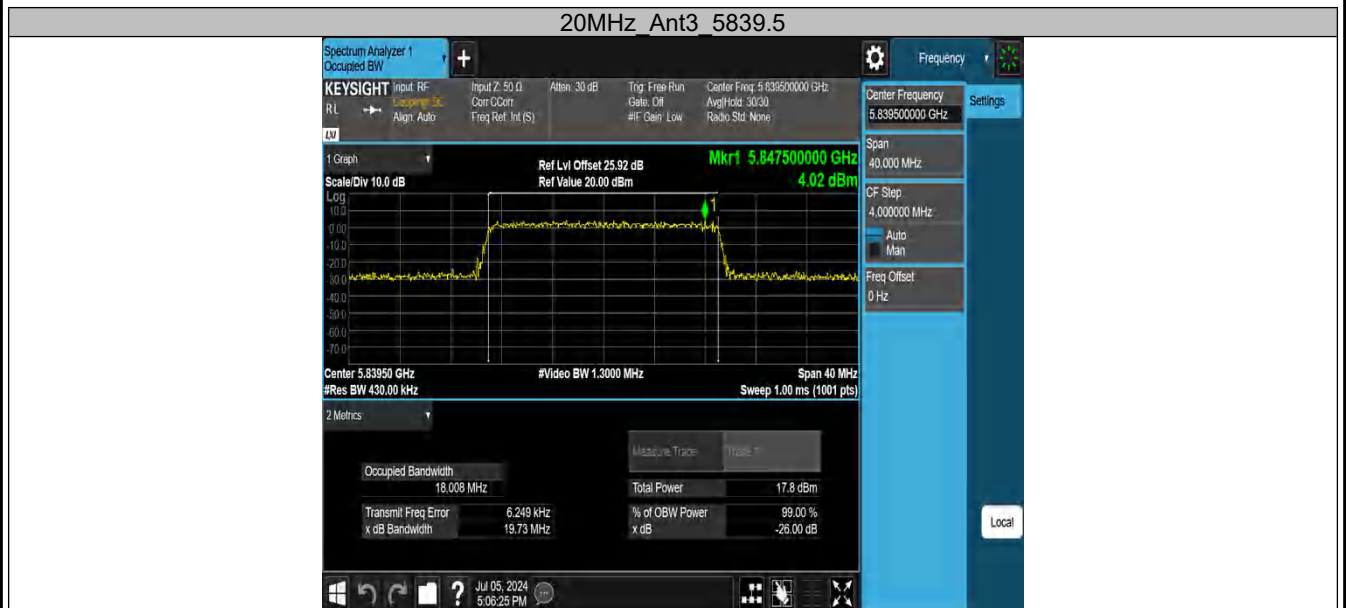




5.8G SDR, 20MHz BW

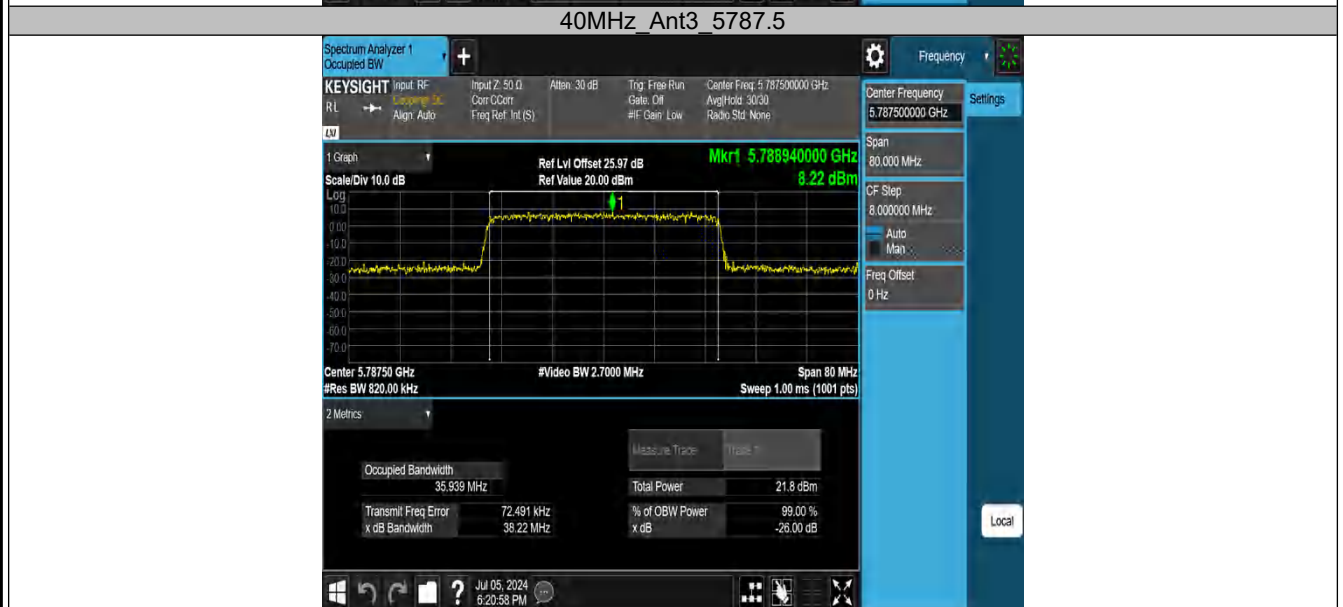
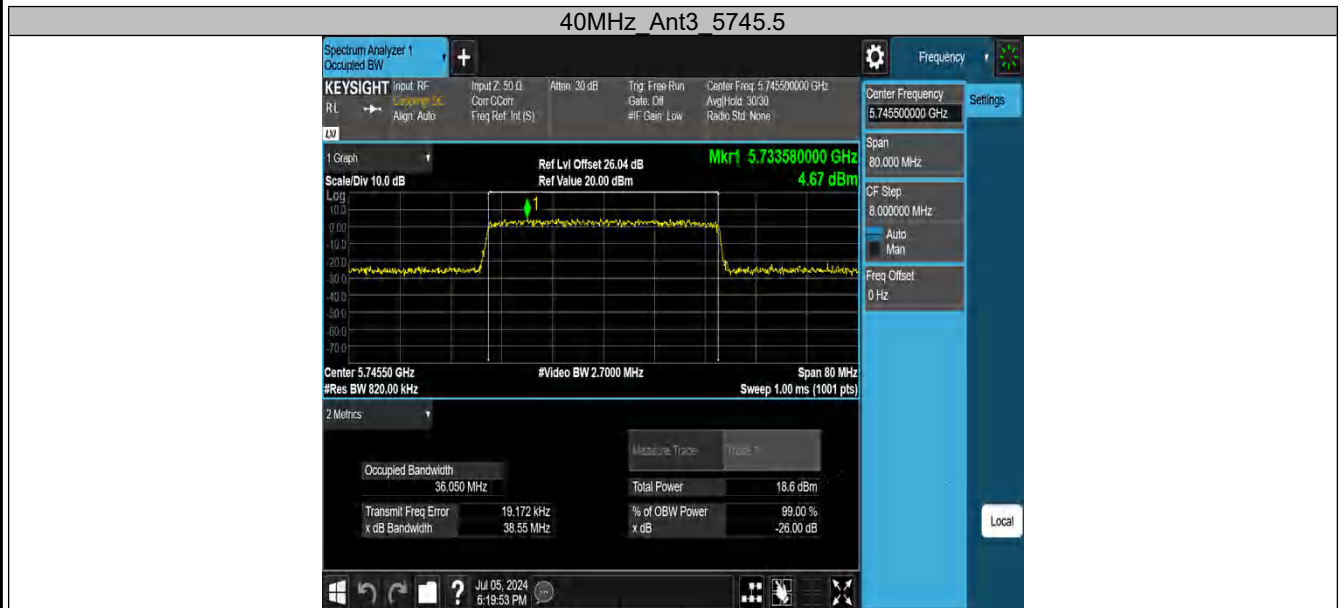
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20MHz	Ant3	5735.5	17.911	5726.5353	5744.4463	---	PASS
		5787.5	17.930	5778.5384	5796.4684	---	PASS
		5839.5	18.008	5830.5023	5848.5103	---	PASS

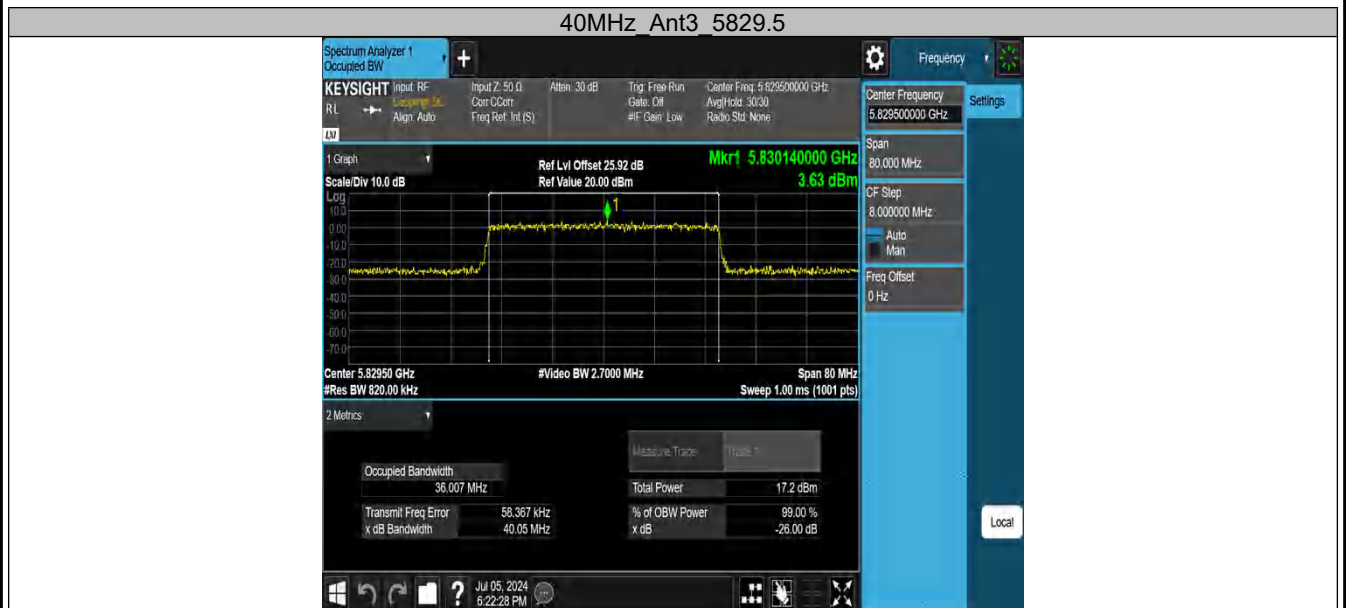




5.8G SDR, 40MHz BW

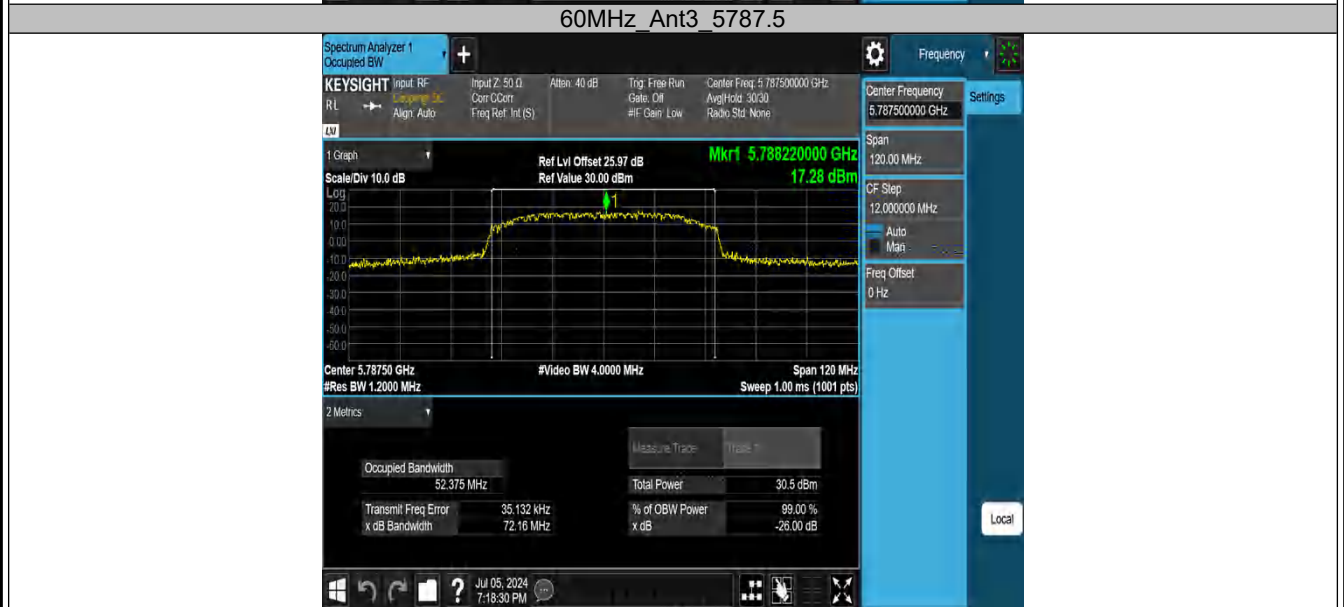
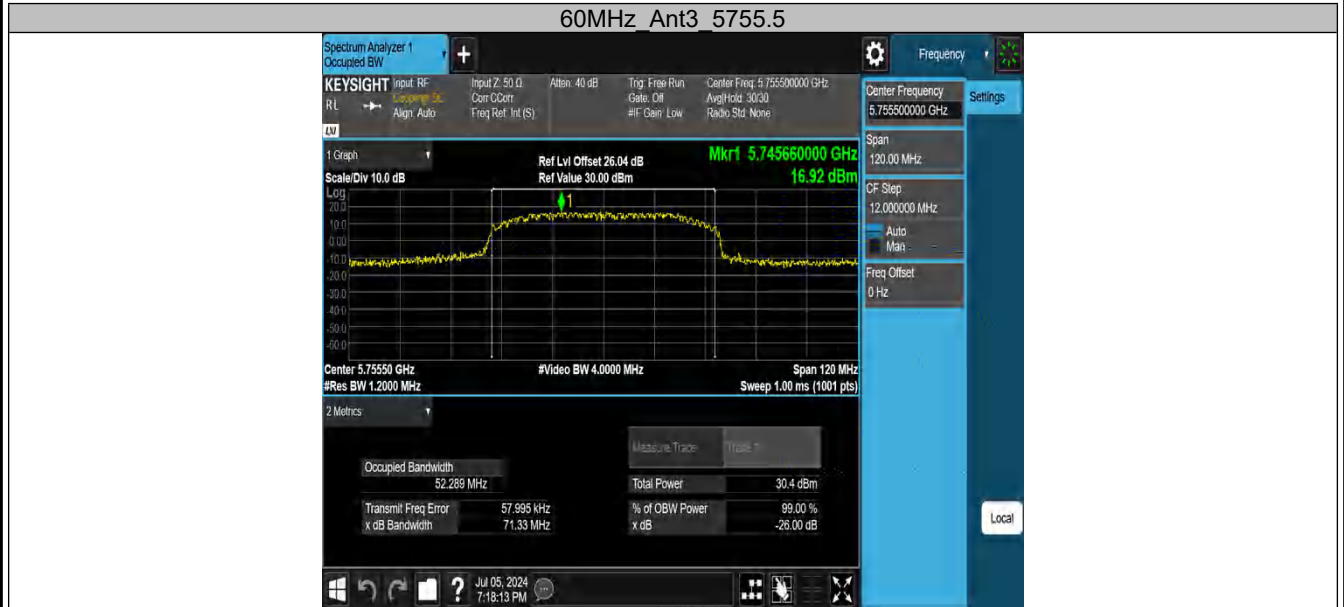
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40MHz	Ant3	5745.5	36.050	5727.4942	5763.5442	---	PASS
		5787.5	35.939	5769.6030	5805.5420	---	PASS
		5829.5	36.007	5811.5549	5847.5619	---	PASS

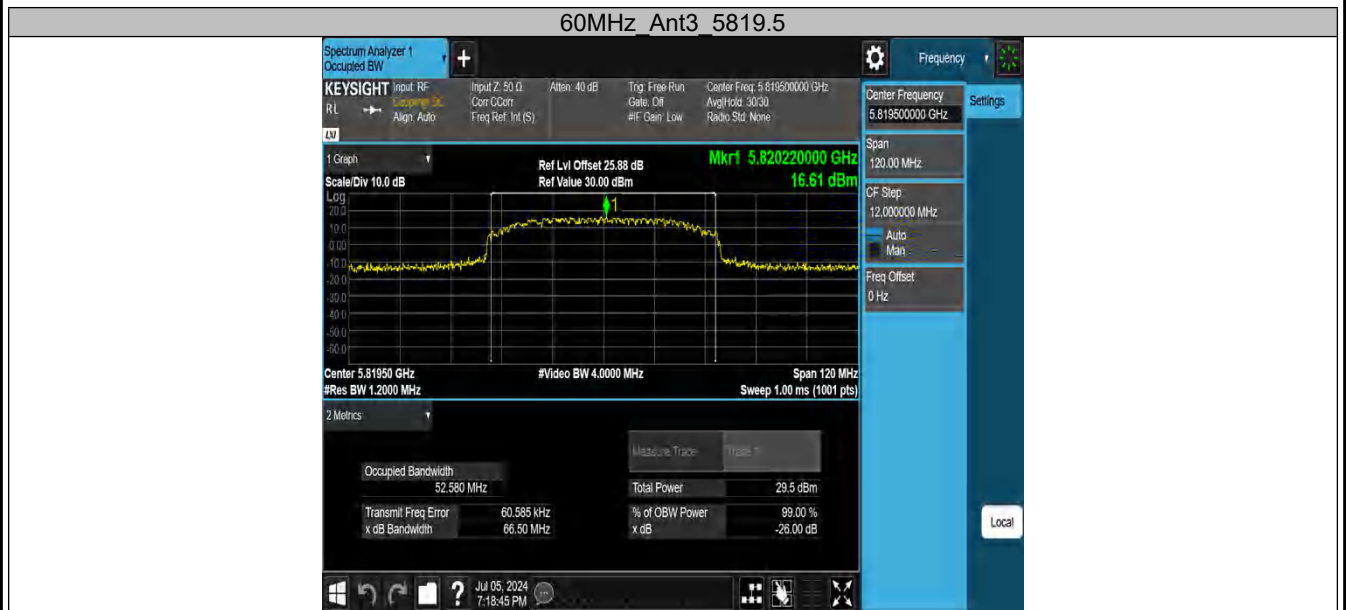




5.8G SDR, 60MHz BW

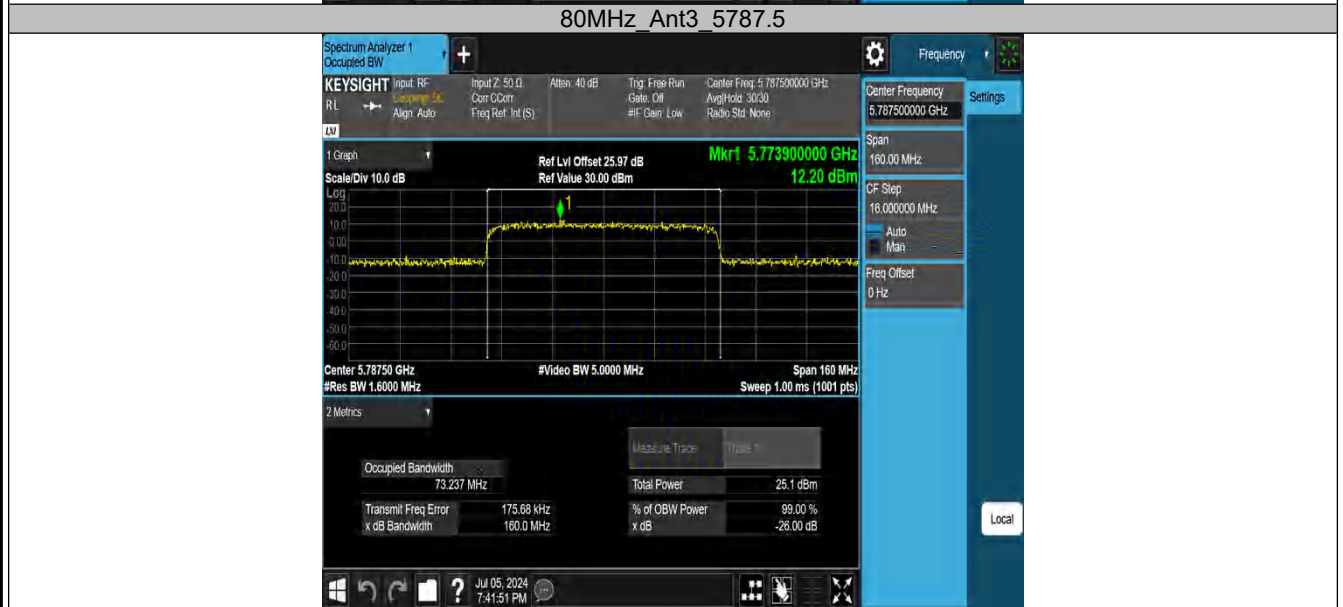
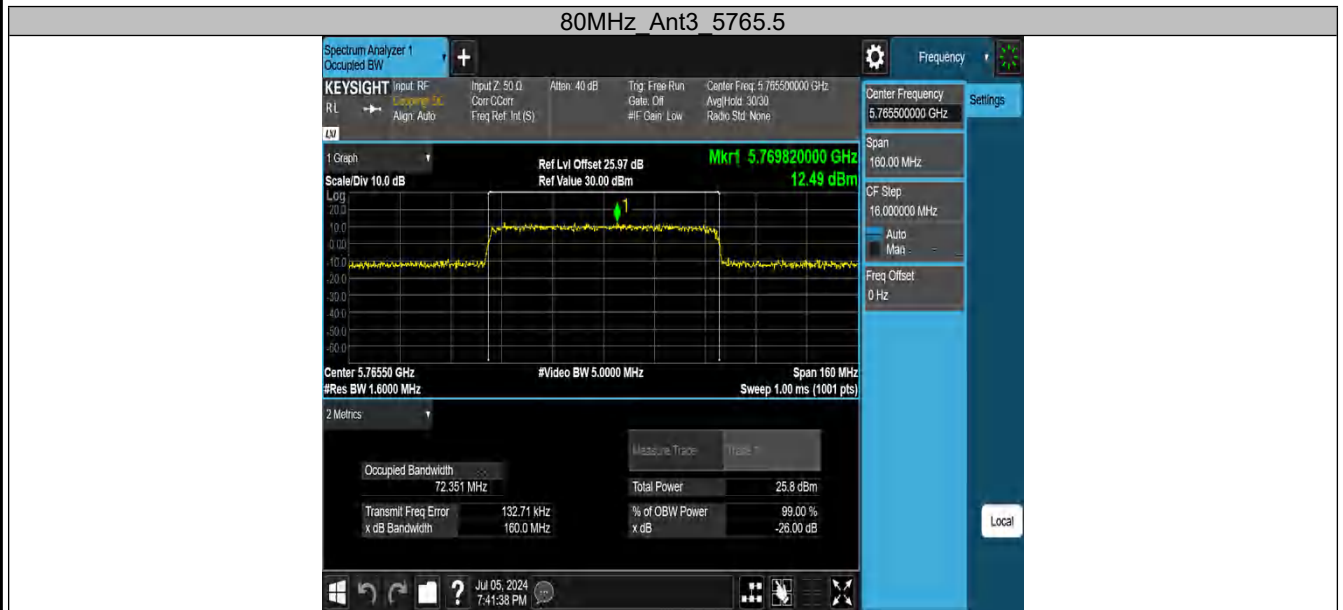
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
60MHz	Ant3	5755.5	52.289	5729.4135	5781.7025	---	PASS
		5787.5	52.375	5761.3476	5813.7226	---	PASS
		5819.5	52.580	5793.2706	5845.8506	---	PASS

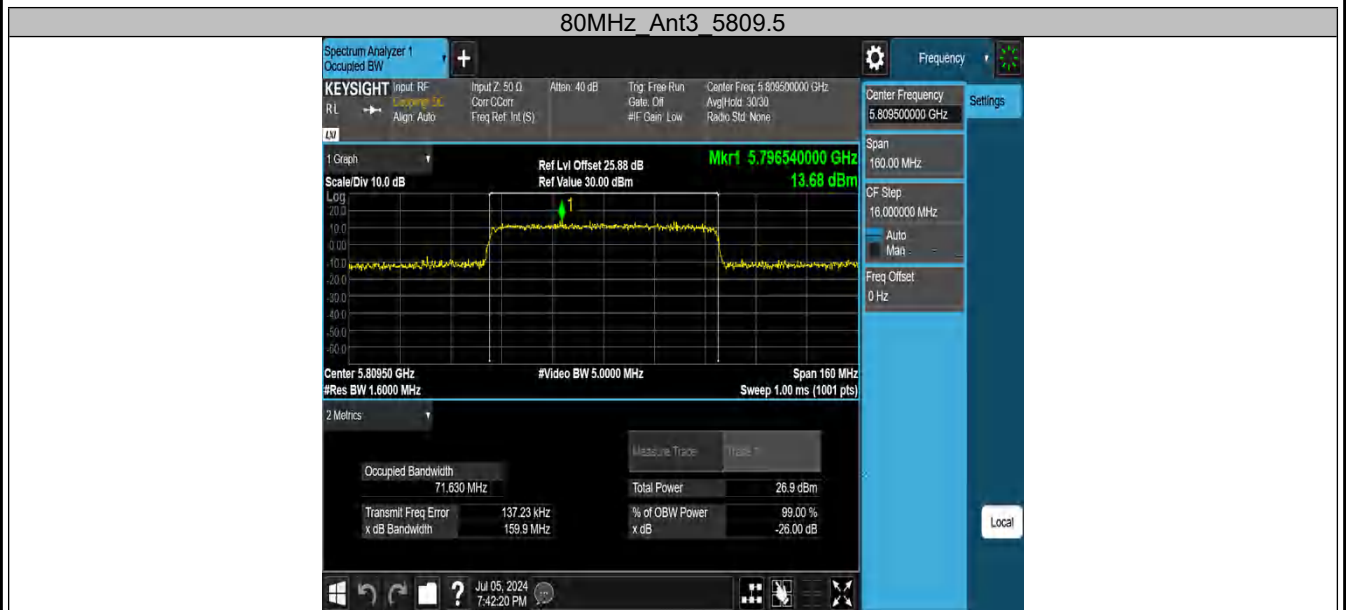




5.8G SDR, 80MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
80MHz	Ant3	5765.5	72.351	5729.4572	5801.8082	---	PASS
		5787.5	73.237	5751.0572	5824.2942	---	PASS
		5809.5	71.630	5773.8222	5845.4522	---	PASS





Appendix A.5: Test Results of Radiated Spurious Emissions

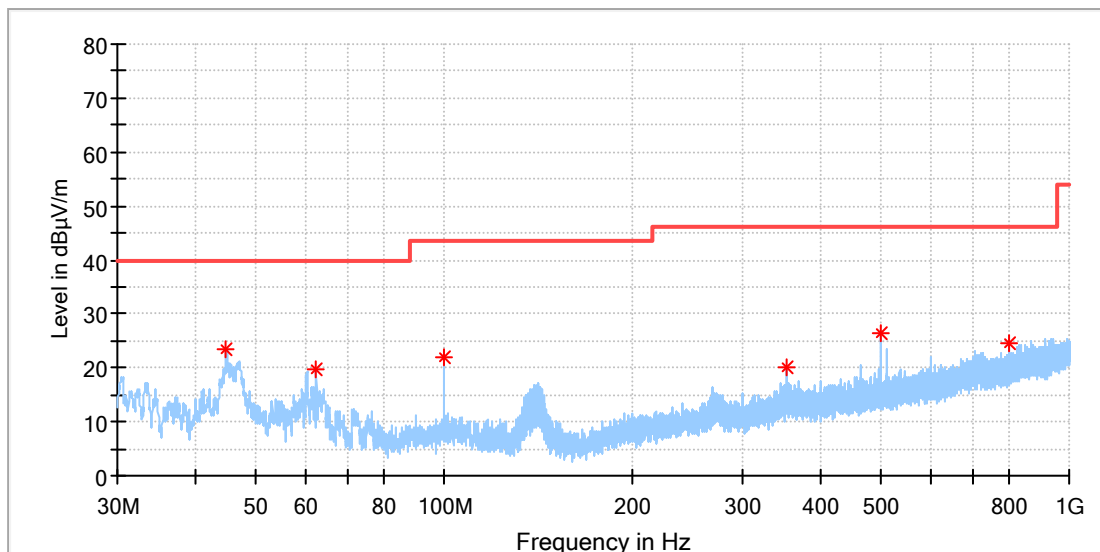
Note:

- 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 (Worst case)

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_1.4M_5784.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

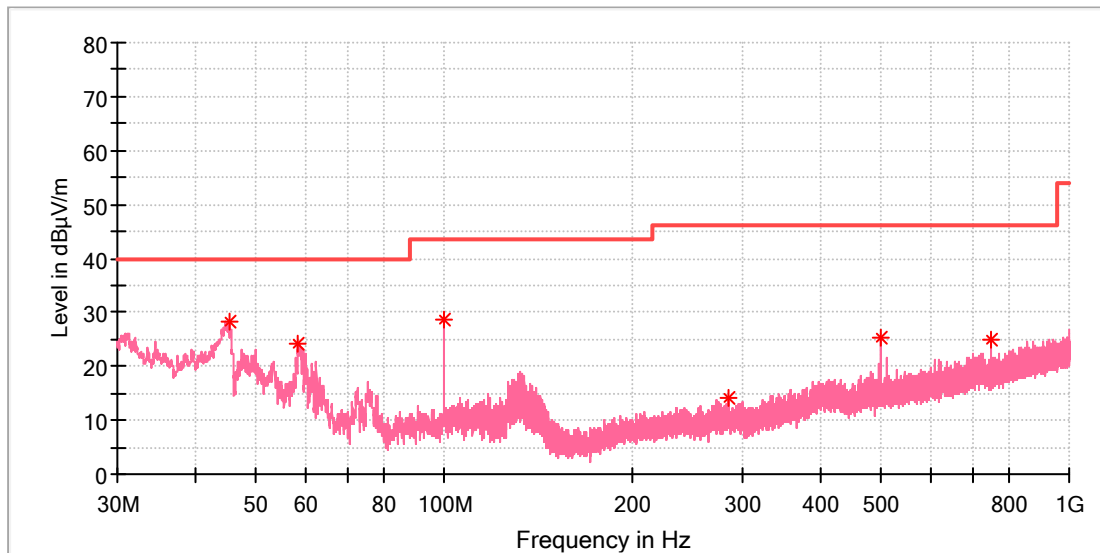
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.848462	23.42	40.00	16.58	100.0	H	128.0	-19.2
62.495000	19.72	40.00	20.28	100.0	H	294.0	-19.9
99.989231	21.85	43.50	21.65	100.0	H	324.0	-19.3
352.002692	20.18	46.00	25.82	100.0	H	264.0	-15.1
500.002308	26.37	46.00	19.63	100.0	H	233.0	-12.2
800.030769	24.37	46.00	21.63	100.0	H	188.0	-6.8

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 5.8G_1.4M_5784.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
45.258846	28.27	40.00	11.73	100.0	V	194.0	-19.1
58.316539	24.05	40.00	15.95	100.0	V	179.0	-19.1
99.989231	28.71	43.50	14.79	100.0	V	81.0	-19.3
285.781539	14.20	46.00	31.80	100.0	V	299.0	-17.0
500.002308	25.45	46.00	20.55	100.0	V	43.0	-12.2
750.038462	24.86	46.00	21.14	100.0	V	330.0	-7.6

Final Result

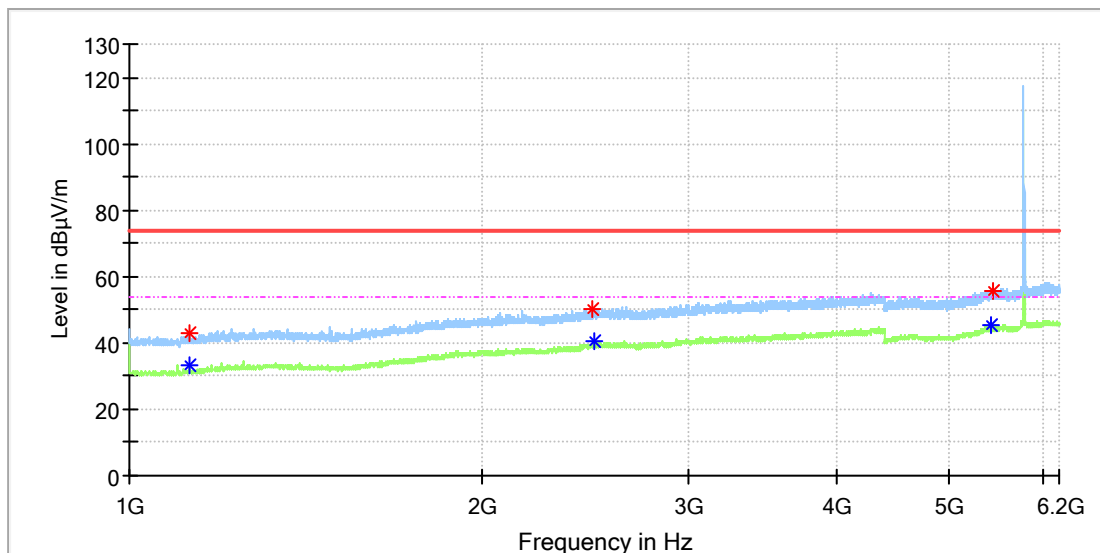
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is 5.8G SDR Fundamental.

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_1.4M_5784.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

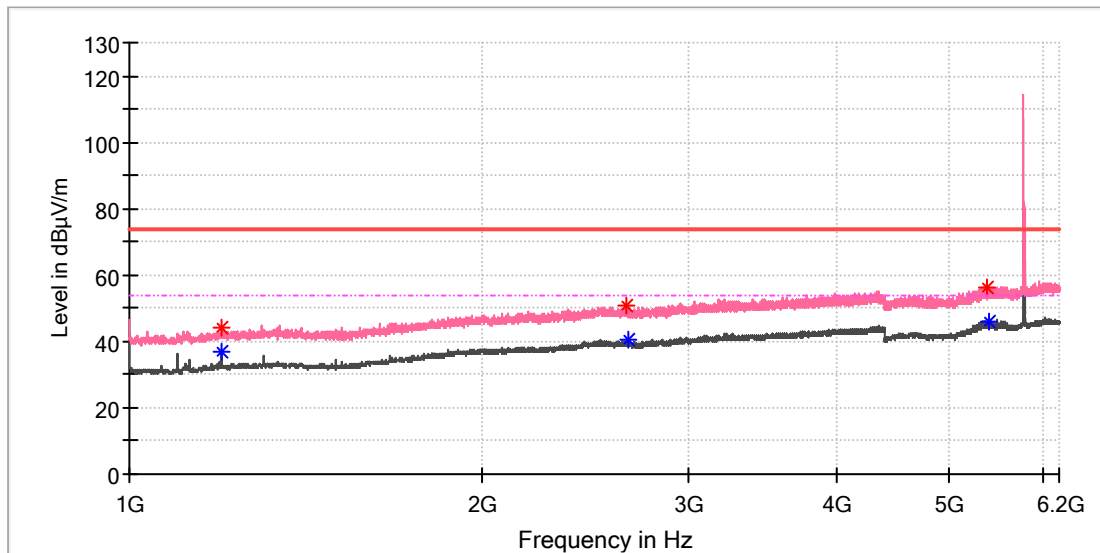
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.500000	---	33.22	54.00	20.78	150.0	H	9.0	0.3
1126.000000	43.18	---	74.00	30.82	150.0	H	72.0	0.3
2481.000000	50.18	---	74.00	23.82	150.0	H	72.0	7.4
2487.000000	---	40.37	54.00	13.63	150.0	H	72.0	7.4
5424.500000	---	45.10	54.00	8.90	150.0	H	359.0	13.5
5440.000000	55.92	---	74.00	18.08	150.0	H	60.0	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:	SDR 5.8G_1.4M_5784.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

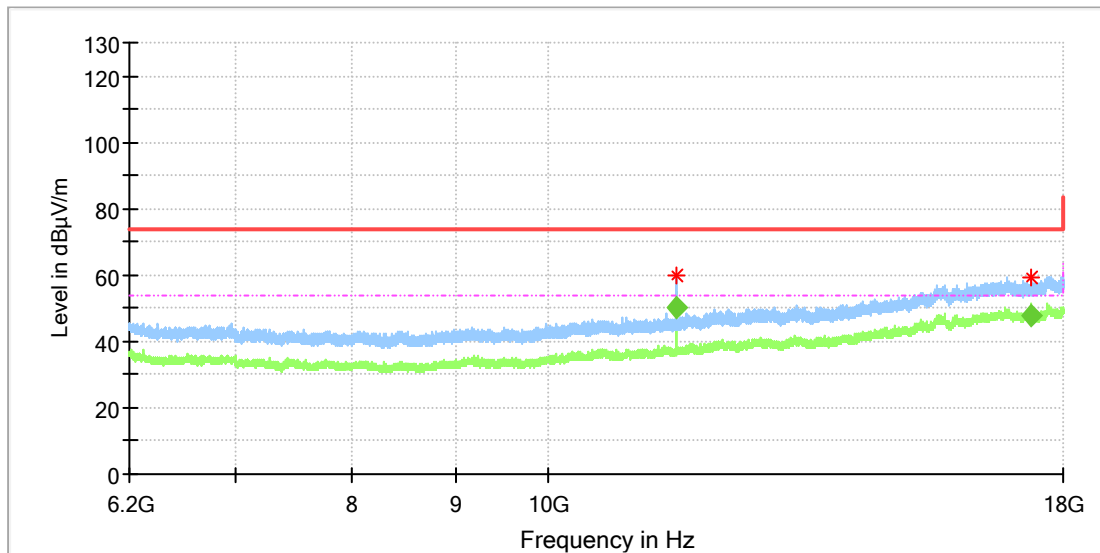
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.500000	44.21	---	74.00	29.79	150.0	V	190.0	1.1
1200.000000	---	36.85	54.00	17.15	150.0	V	172.0	1.1
2649.000000	50.70	---	74.00	23.30	150.0	V	183.0	7.6
2660.500000	---	40.44	54.00	13.56	150.0	V	335.0	7.6
5374.000000	56.24	---	74.00	17.76	150.0	V	190.0	13.4
5397.500000	---	46.08	54.00	7.92	150.0	V	190.0	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 5.8G_1.4M_5784.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

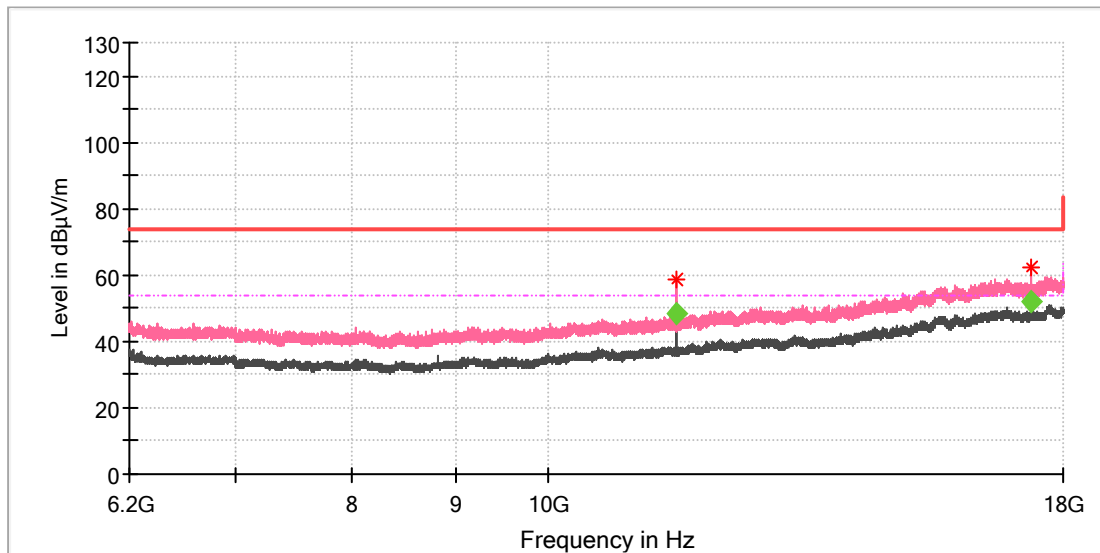
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11569.000000	59.79	---	74.00	14.21	150.0	H	253.0	13.4
17354.441667	59.12	---	74.00	14.88	150.0	H	23.0	21.8

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11568.655833	50.39	54.00	3.61	150.0	H	248.0	13.4
17353.080834	48.05	54.00	5.95	149.0	H	18.0	21.8

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_1.4M_5784.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

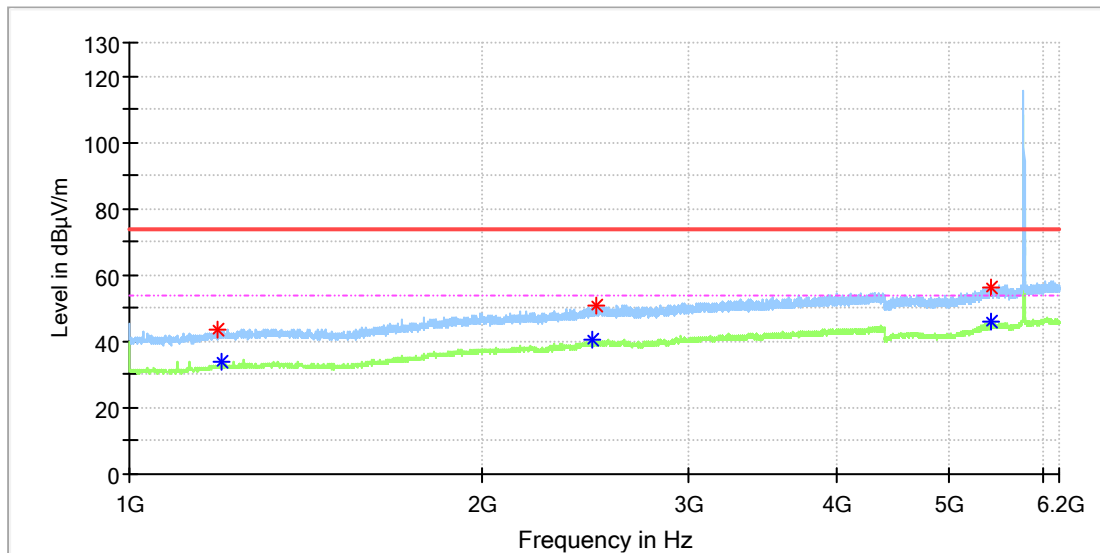
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11568.508333	58.83	---	74.00	15.17	150.0	V	303.0	13.4
17352.966667	62.57	---	74.00	11.43	150.0	V	20.0	21.8

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11568.548333	48.66	54.00	5.34	149.0	V	298.0	13.4
17354.227917	51.98	54.00	2.02	149.0	V	15.0	21.8

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_3M_5784.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

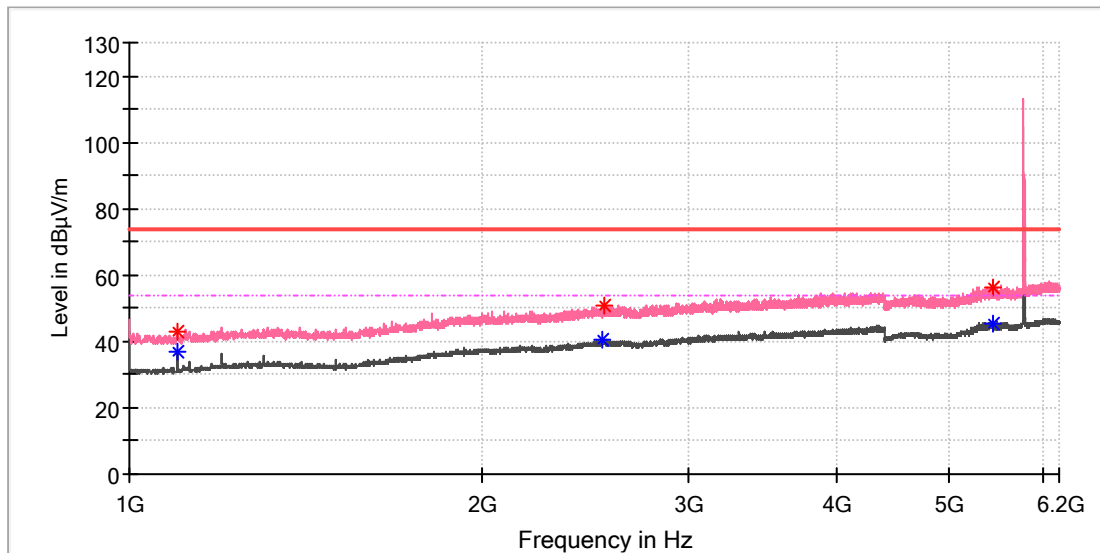
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1189.000000	43.57	---	74.00	30.43	150.0	H	141.0	1.1
1200.000000	---	33.91	54.00	20.09	150.0	H	63.0	1.1
2476.000000	---	40.64	54.00	13.36	150.0	H	152.0	7.4
2495.500000	50.61	---	74.00	23.39	150.0	H	223.0	7.4
5415.000000	---	45.80	54.00	8.20	150.0	H	347.0	13.5
5423.500000	56.45	---	74.00	17.55	150.0	H	164.0	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:	SDR 5.8G_3M_5784.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

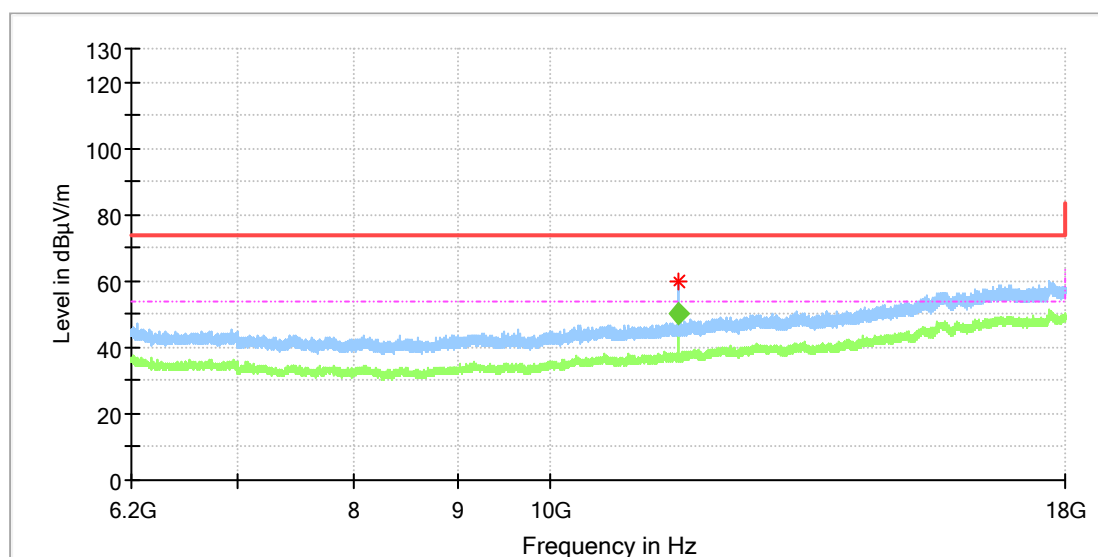
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1099.500000	43.13	---	74.00	30.87	150.0	V	110.0	-0.2
1099.500000	---	37.06	54.00	16.94	150.0	V	110.0	-0.2
2531.500000	---	40.33	54.00	13.67	150.0	V	184.0	7.5
2540.000000	50.53	---	74.00	23.47	150.0	V	133.0	7.6
5439.000000	---	45.61	54.00	8.39	150.0	V	191.0	13.5
5454.000000	56.06	---	74.00	17.94	150.0	V	184.0	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:	SDR 5.8G_3M_5784.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

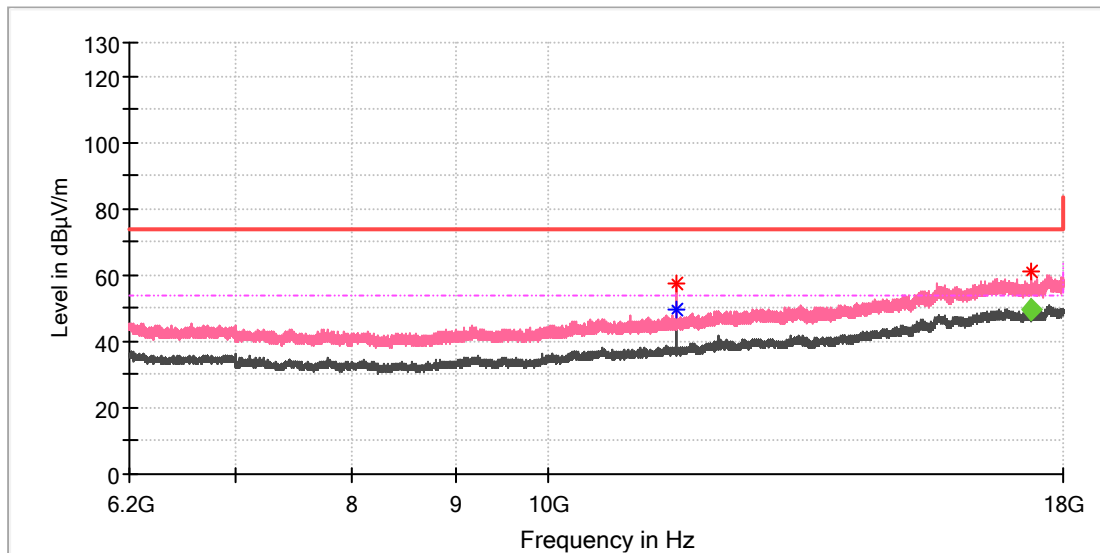
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11570.475000	59.69	---	74.00	14.31	150.0	H	96.0	13.4

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11569.164166	49.90	54.00	4.10	149.0	H	91.0	13.4

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_3M_5784.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

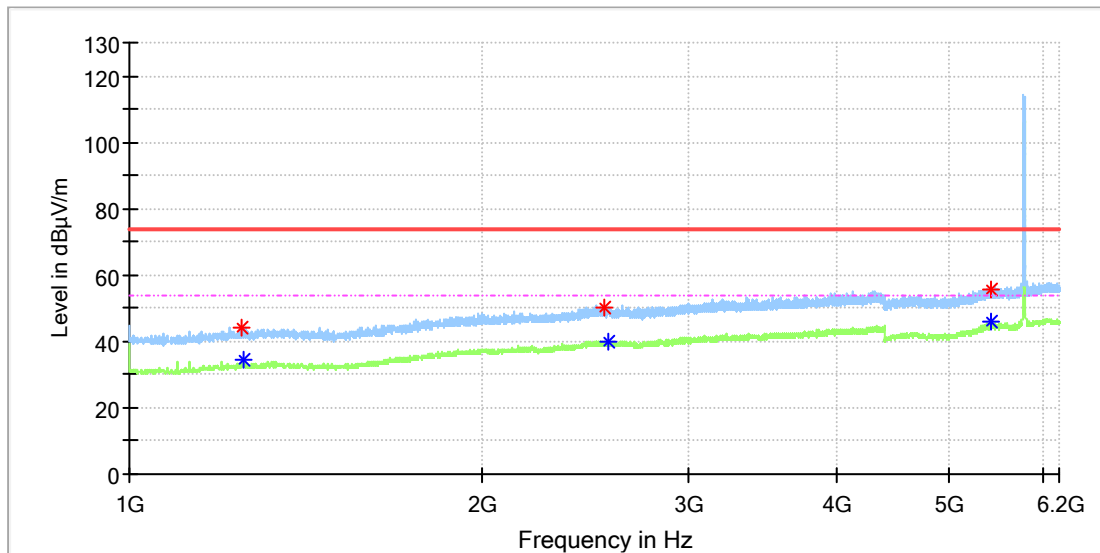
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11568.508333	---	49.83	54.00	4.17	150.0	V	120.0	13.4
11569.491667	57.17	---	74.00	16.83	150.0	V	230.0	13.4
17353.950000	61.10	---	74.00	12.90	150.0	V	230.0	21.8

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17353.522500	49.63	54.00	4.37	145.0	V	229.0	21.8

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_5M_5787.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

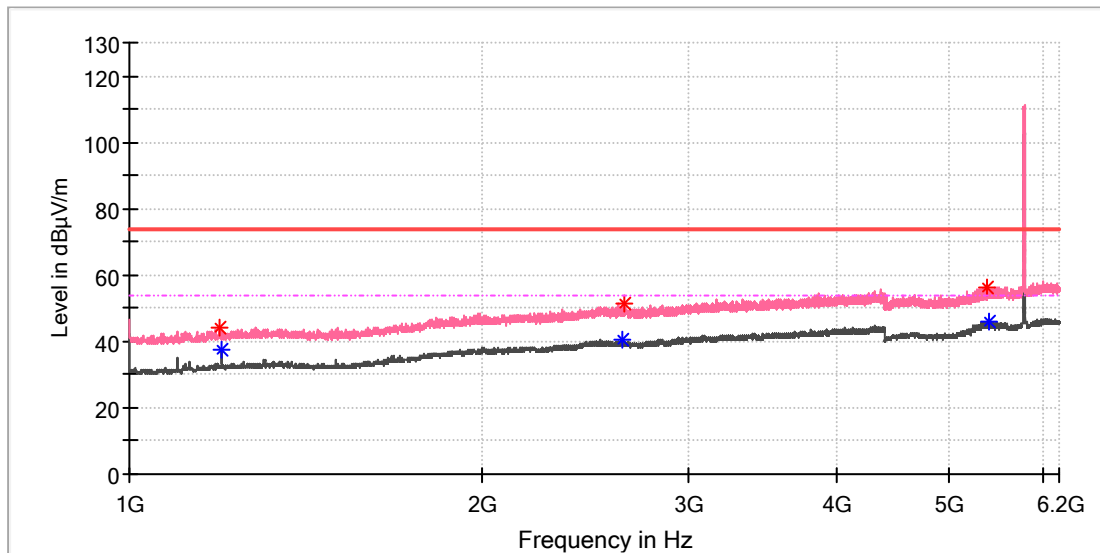
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1246.000000	43.95	---	74.00	30.05	150.0	H	124.0	1.8
1250.000000	---	34.55	54.00	19.45	150.0	H	359.0	1.9
2537.500000	50.16	---	74.00	23.84	150.0	H	238.0	7.6
2556.500000	---	40.01	54.00	13.99	150.0	H	164.0	7.6
5418.500000	---	45.84	54.00	8.16	150.0	H	62.0	13.5
5427.500000	55.67	---	74.00	18.33	150.0	H	200.0	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:	SDR 5.8G_5M_5787.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

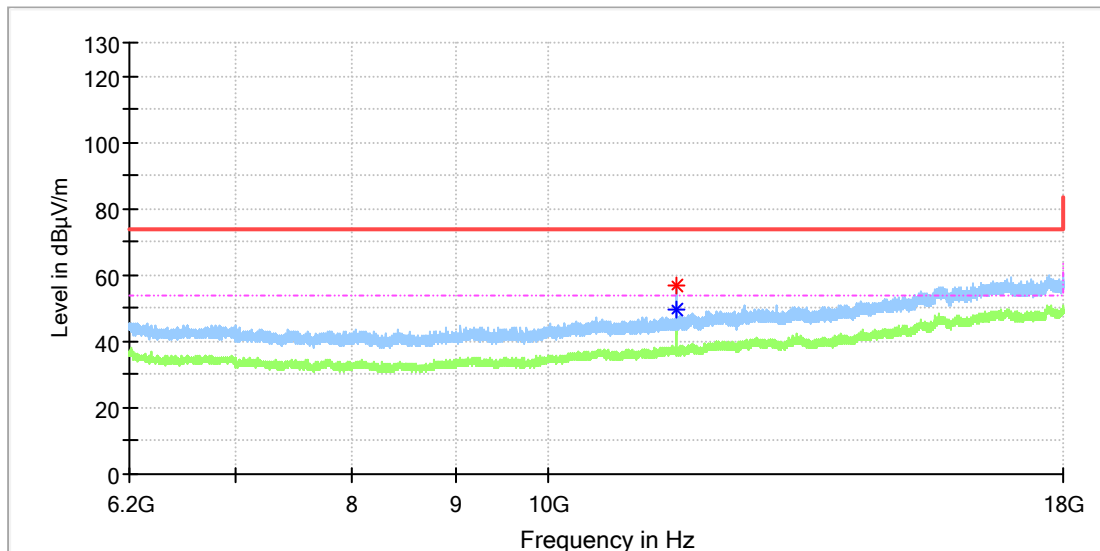
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1193.500000	44.04	---	74.00	29.96	150.0	V	288.0	1.1
1200.000000	---	37.24	54.00	16.76	150.0	V	194.0	1.1
2629.500000	---	40.24	54.00	13.76	150.0	V	315.0	7.5
2638.000000	51.27	---	74.00	22.73	150.0	V	188.0	7.5
5372.500000	56.48	---	74.00	17.52	150.0	V	197.0	13.4
5398.500000	---	45.97	54.00	8.03	150.0	V	197.0	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 5.8G_5M_5787.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

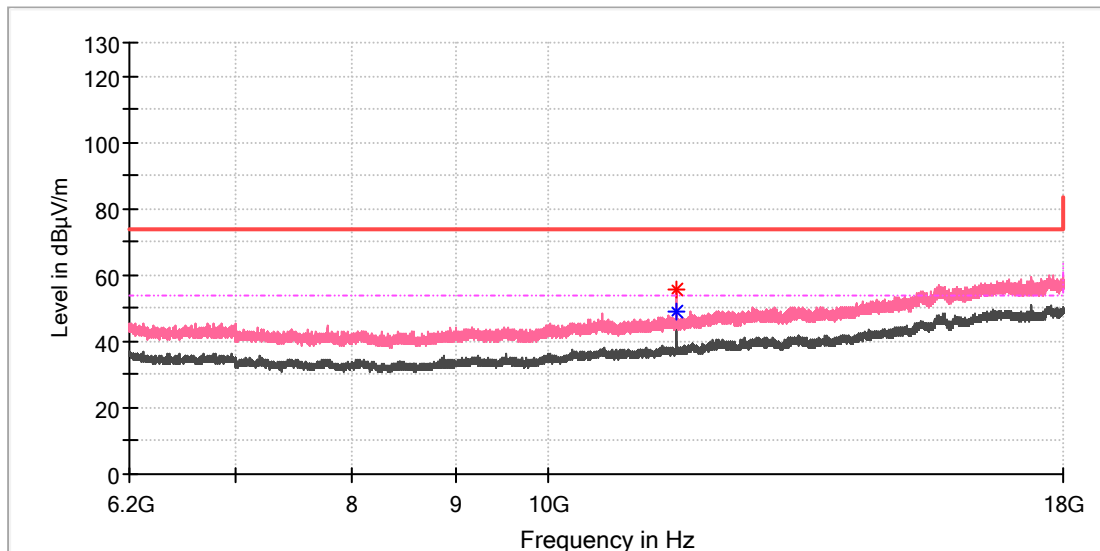
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11574.408333	56.91	---	74.00	17.09	150.0	H	86.0	13.4
11574.900000	---	49.50	54.00	4.50	150.0	H	98.0	13.4

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 5.8G_5M_5787.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

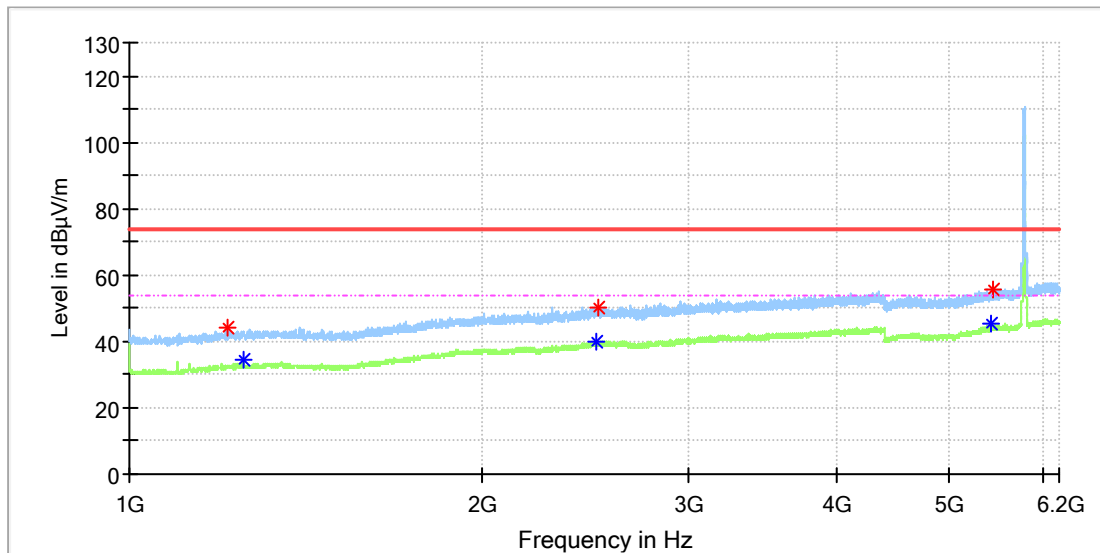
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11573.916667	55.58	---	74.00	18.42	150.0	V	272.0	13.4
11575.883333	---	48.97	54.00	5.03	150.0	V	143.0	13.4

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 5.8G_10M_5787.5MHz
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

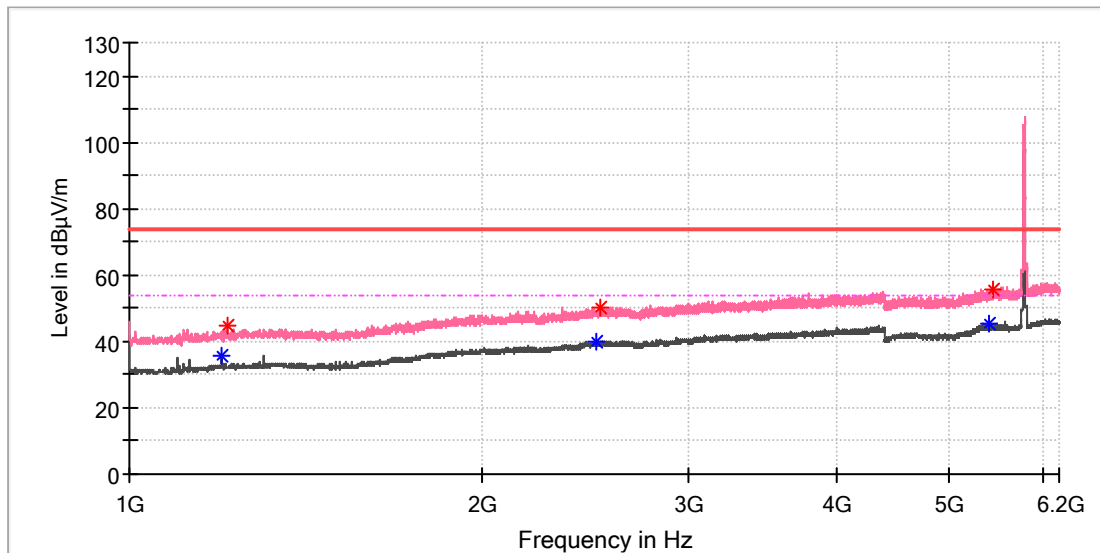
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1212.000000	43.93	---	74.00	30.07	150.0	H	313.0	1.3
1249.500000	---	34.41	54.00	19.59	150.0	H	183.0	1.9
2501.500000	---	40.11	54.00	13.89	150.0	H	51.0	7.4
2507.000000	50.18	---	74.00	23.82	150.0	H	332.0	7.4
5418.000000	---	45.12	54.00	8.88	150.0	H	51.0	13.5
5435.500000	55.92	---	74.00	18.08	150.0	H	172.0	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:	SDR 5.8G_10M_5787.5MHz
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

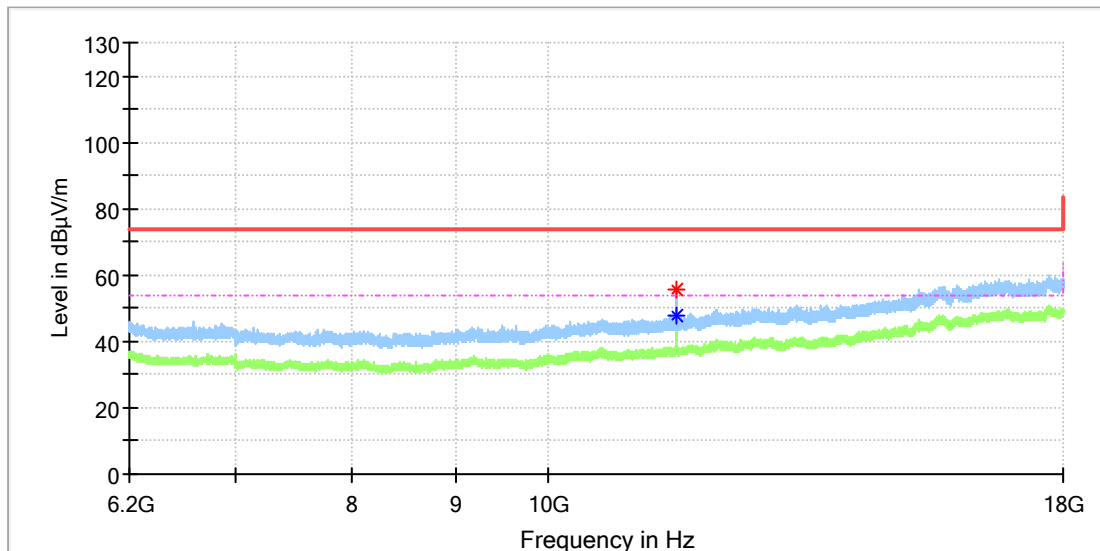
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	---	35.46	54.00	18.54	150.0	V	204.0	1.1
1210.500000	44.69	---	74.00	29.31	150.0	V	257.0	1.3
2497.000000	---	40.02	54.00	13.98	150.0	V	18.0	7.4
2515.000000	50.25	---	74.00	23.75	150.0	V	333.0	7.4
5412.000000	---	45.53	54.00	8.47	150.0	V	190.0	13.5
5451.000000	55.72	---	74.00	18.28	150.0	V	179.0	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:	SDR 5.8G_10M_5787.5MHz
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

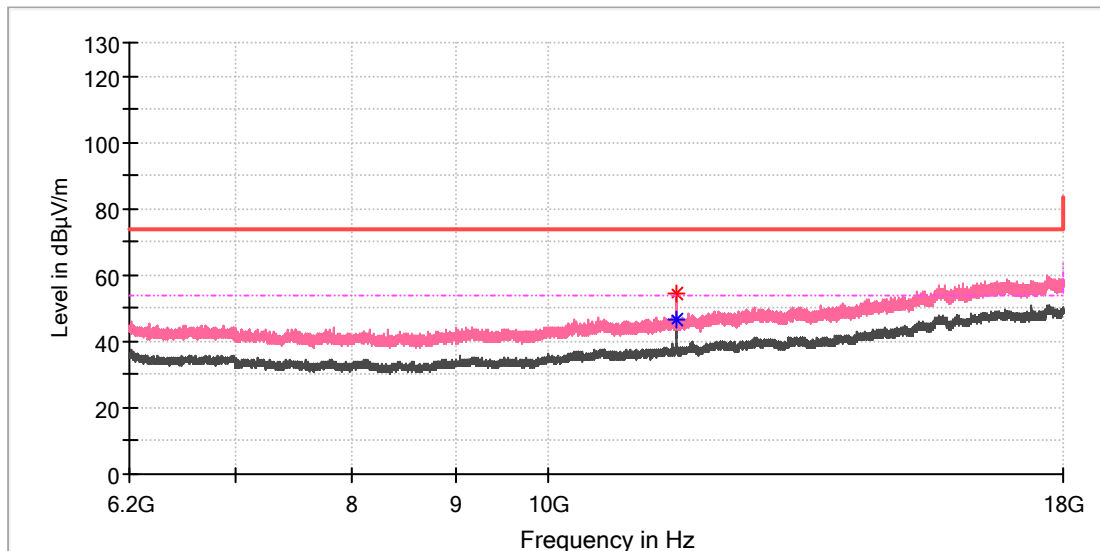
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11571.458333	---	47.58	54.00	6.42	150.0	H	103.0	13.4
11577.358333	55.83	---	74.00	18.17	150.0	H	103.0	13.4

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 5.8G_10M_5787.5MHz
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

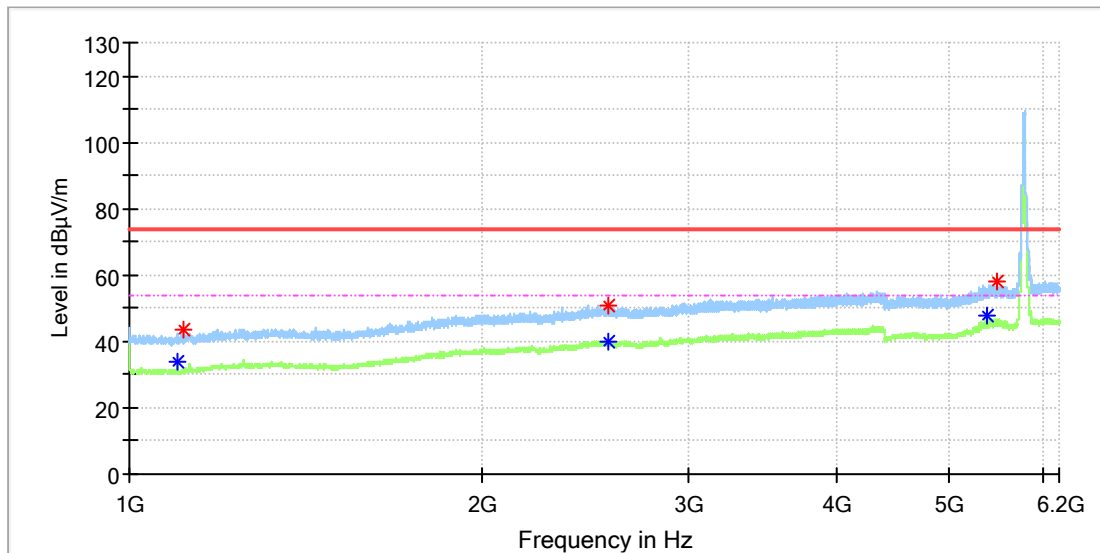
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11575.391667	54.46	---	74.00	19.54	150.0	V	286.0	13.4
11575.391667	---	46.27	54.00	7.73	150.0	V	286.0	13.4

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 5.8G_20M_5787.5MHz
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

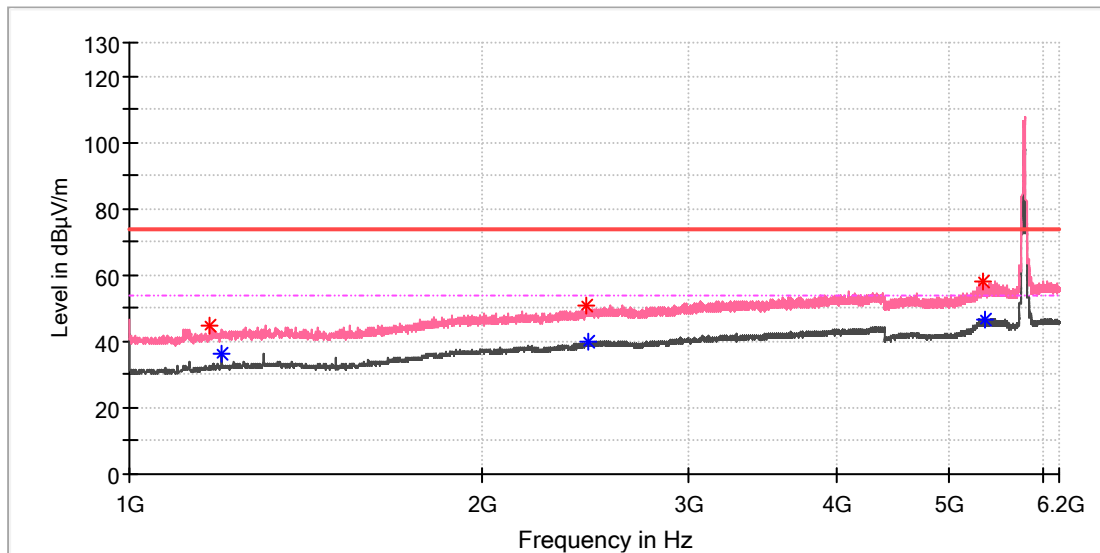
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1099.500000	---	33.93	54.00	20.07	150.0	H	56.0	-0.2
1113.500000	43.40	---	74.00	30.60	150.0	H	14.0	0.1
2555.500000	---	39.94	54.00	14.06	150.0	H	8.0	7.6
2561.500000	50.71	---	74.00	23.29	150.0	H	67.0	7.6
5371.500000	---	47.48	54.00	6.52	150.0	H	189.0	13.3
5492.500000	58.06	---	68.20	10.14	150.0	H	189.0	13.7

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 5.8G_20M_5787.5MHz
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

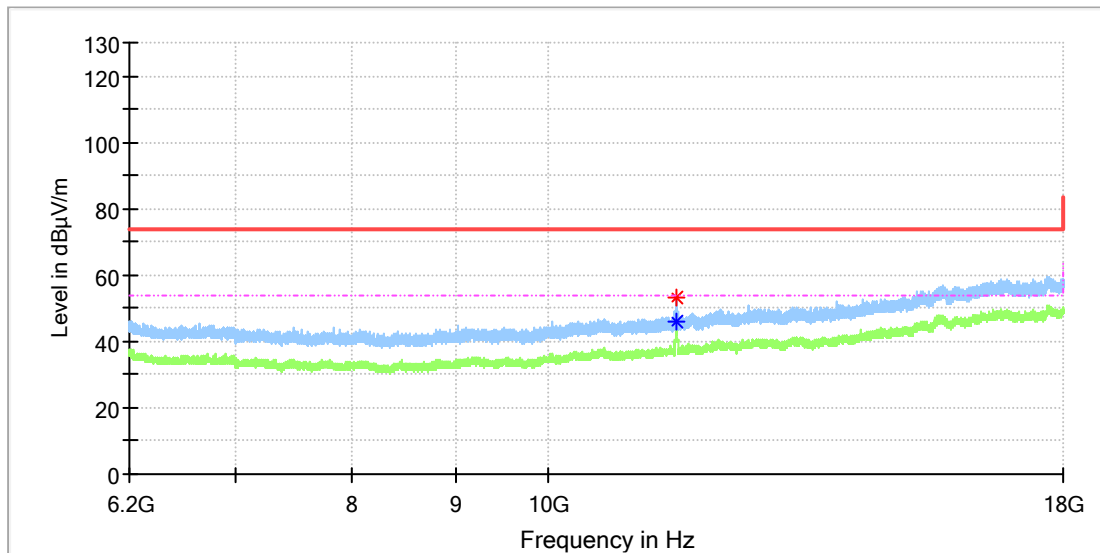
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1172.500000	44.56	---	74.00	29.44	150.0	V	28.0	0.9
1200.000000	---	36.06	54.00	17.94	150.0	V	219.0	1.1
2455.000000	50.58	---	74.00	23.42	150.0	V	219.0	7.5
2459.000000	---	39.89	54.00	14.11	150.0	V	155.0	7.5
5335.000000	58.30	---	68.20	9.90	150.0	V	187.0	13.2
5363.000000	---	46.79	54.00	7.21	150.0	V	199.0	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 5.8G_20M_5787.5MHz
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

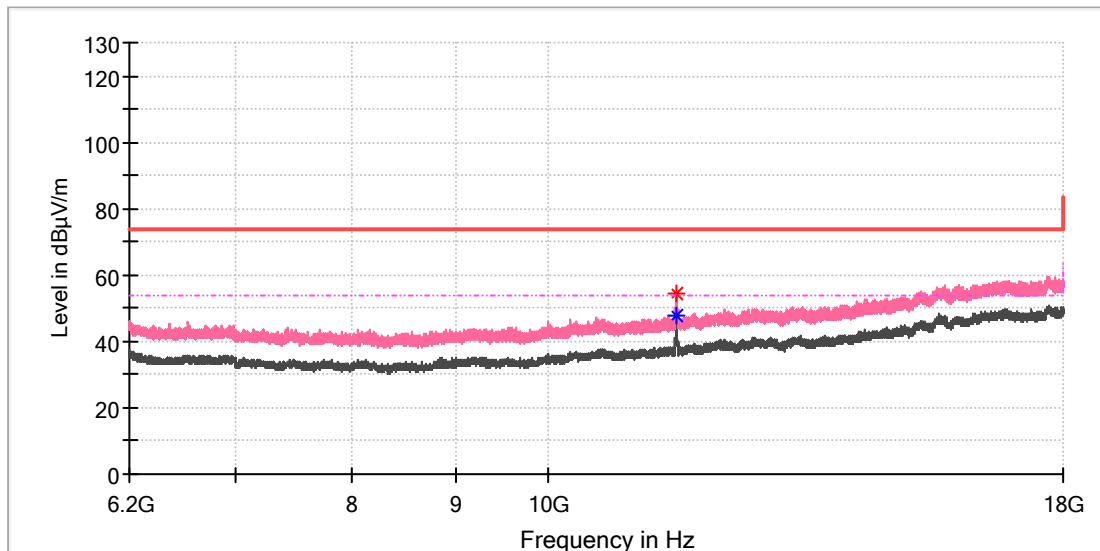
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11567.033333	---	46.04	54.00	7.96	150.0	H	102.0	13.4
11583.750000	53.26	---	74.00	20.74	150.0	H	102.0	13.3

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 5.8G_20M_5787.5MHz
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

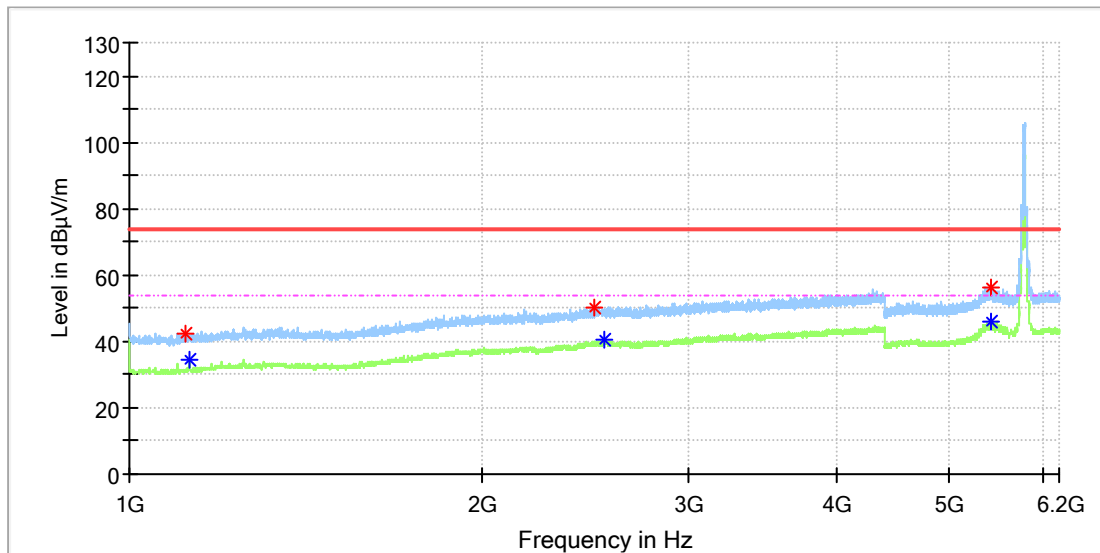
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11582.275000	54.42	---	74.00	19.58	150.0	V	122.0	13.4
11582.275000	---	47.79	54.00	6.21	150.0	V	122.0	13.4

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 5.8G_40M_5787.5MHz
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

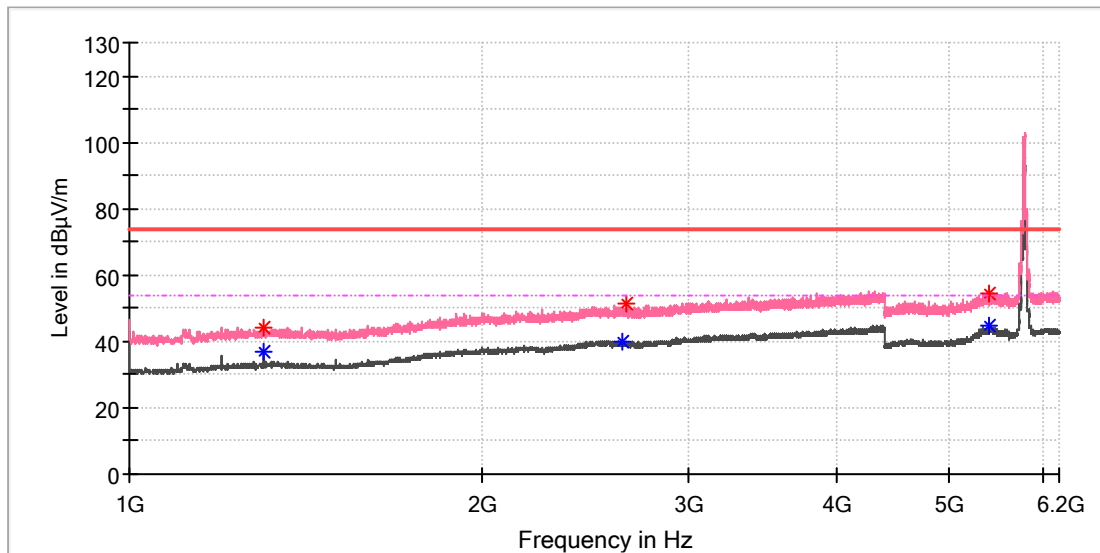
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1116.000000	42.38	---	74.00	31.62	150.0	H	185.0	0.1
1124.500000	---	34.40	54.00	19.60	150.0	H	43.0	0.3
2490.000000	50.30	---	74.00	23.70	150.0	H	0.0	7.4
2534.500000	---	40.26	54.00	13.74	150.0	H	54.0	7.5
5428.000000	56.22	---	74.00	17.78	150.0	H	59.0	13.5
5429.000000	---	45.86	54.00	8.14	150.0	H	66.0	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:	SDR 5.8G_40M_5787.5MHz
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

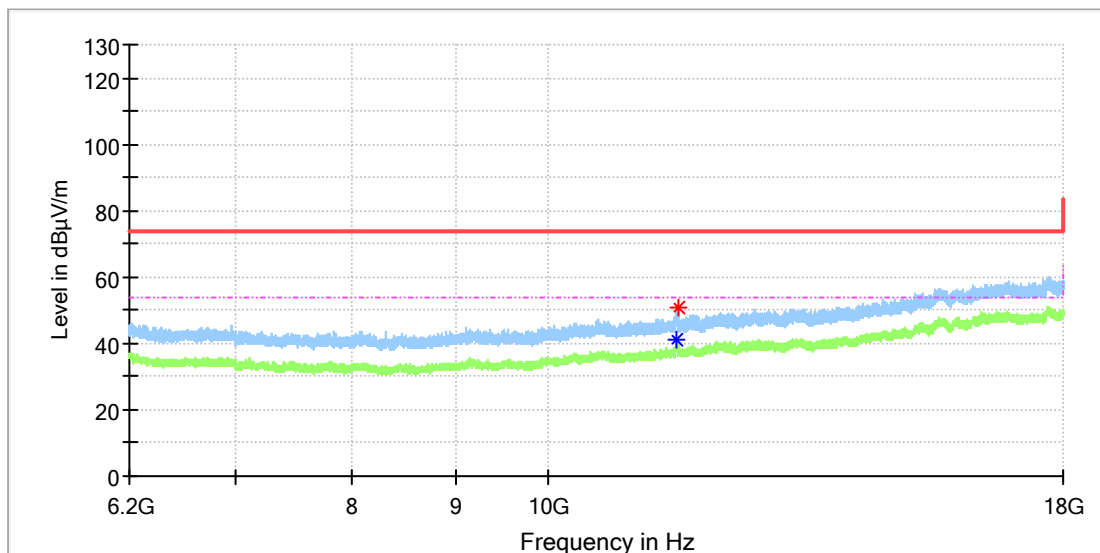
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1300.000000	44.36	---	74.00	29.64	150.0	V	3.0	1.9
1300.000000	---	36.68	54.00	17.32	150.0	V	3.0	1.9
2629.500000	---	39.98	54.00	14.02	150.0	V	220.0	7.5
2648.500000	51.12	---	74.00	22.88	150.0	V	18.0	7.6
5404.000000	54.26	---	74.00	19.74	150.0	V	178.0	13.5
5410.000000	---	44.75	54.00	9.25	150.0	V	350.0	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:	SDR 5.8G_40M_5787.5MHz
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

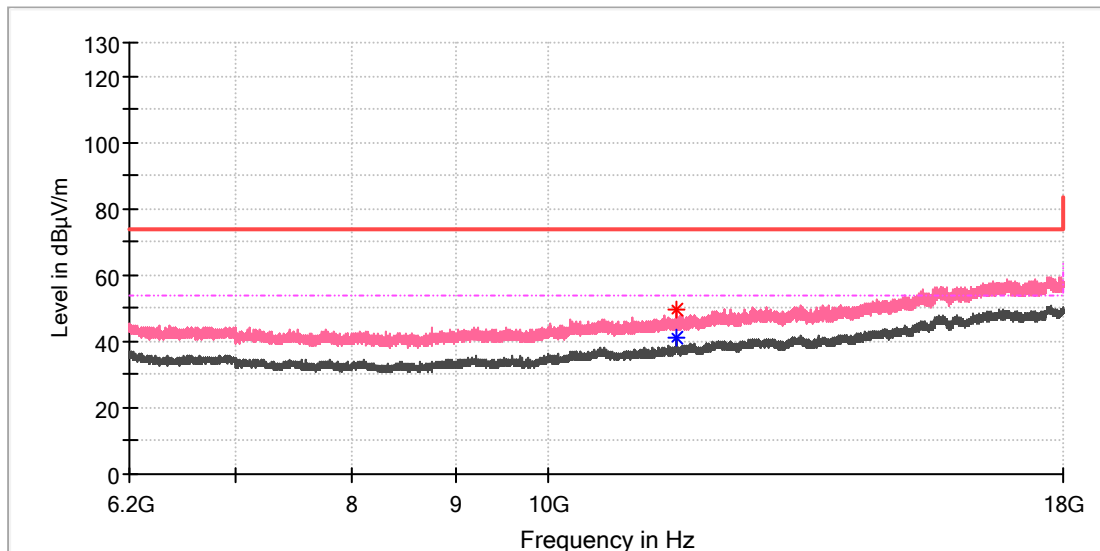
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11573.425000	---	41.29	54.00	12.71	150.0	H	97.0	13.4
11591.125000	50.55	---	74.00	23.45	150.0	H	97.0	13.3

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 5.8G_40M_5787.5MHz
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

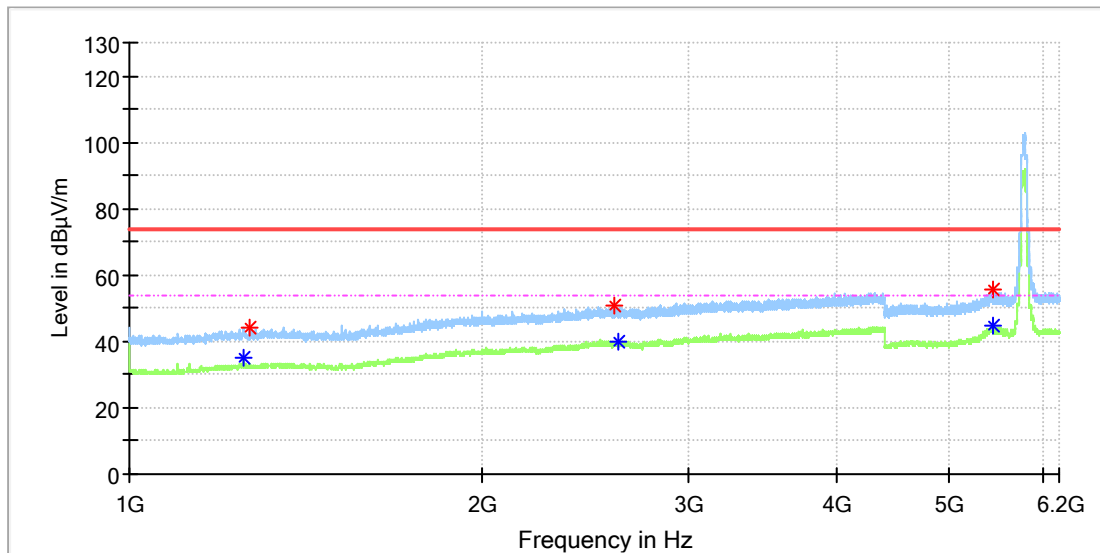
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11566.541667	---	41.19	54.00	12.81	150.0	V	135.0	13.4
11569.000000	49.60	---	74.00	24.40	150.0	V	135.0	13.4

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 5.8G_60M_5787.5MHz
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

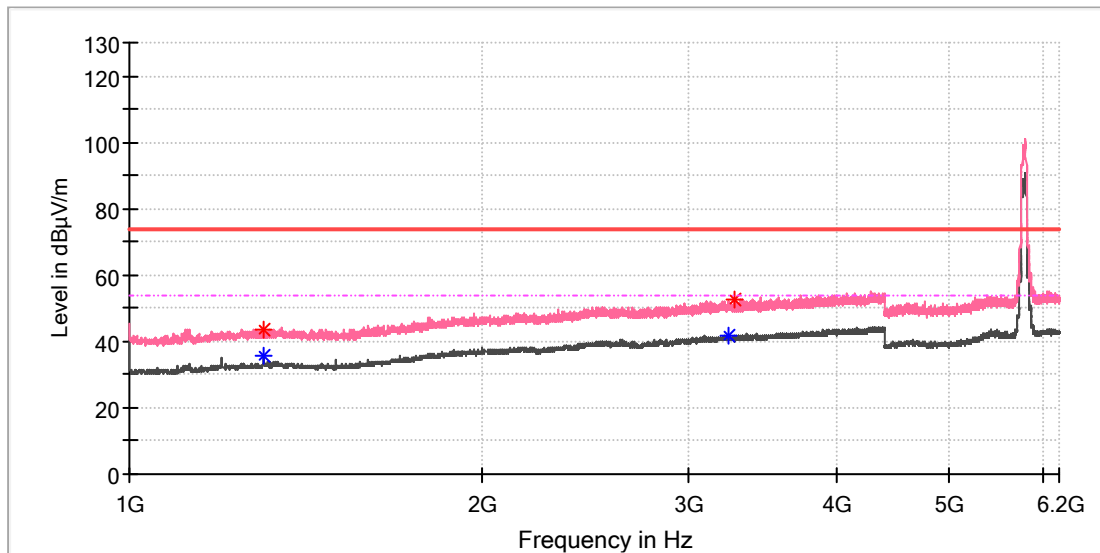
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.500000	---	34.92	54.00	19.08	150.0	H	295.0	1.9
1268.000000	44.42	---	74.00	29.58	150.0	H	33.0	1.9
2591.000000	50.80	---	74.00	23.20	150.0	H	165.0	7.4
2614.500000	---	39.94	54.00	14.06	150.0	H	248.0	7.4
5435.500000	55.69	---	74.00	18.31	150.0	H	68.0	13.5
5435.500000	---	44.96	54.00	9.04	150.0	H	68.0	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:	SDR 5.8G_60M_5787.5MHz
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

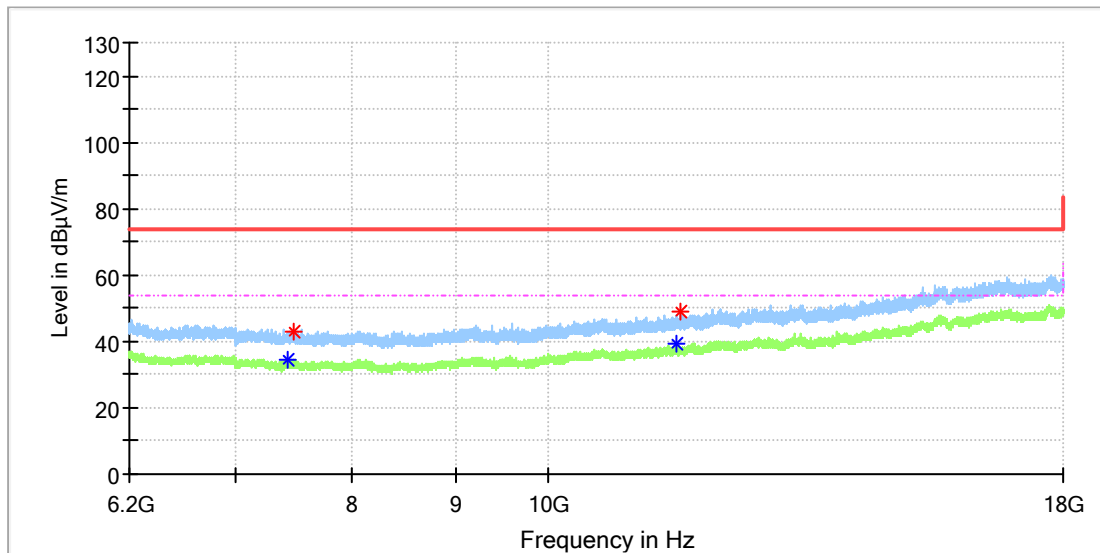
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1299.500000	43.67	---	74.00	30.33	150.0	V	159.0	1.9
1299.500000	---	35.84	54.00	18.16	150.0	V	159.0	1.9
3243.000000	---	41.59	54.00	12.41	150.0	V	196.0	8.5
3282.000000	52.71	---	74.00	21.29	150.0	V	84.0	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:	SDR 5.8G_60M_5787.5MHz
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

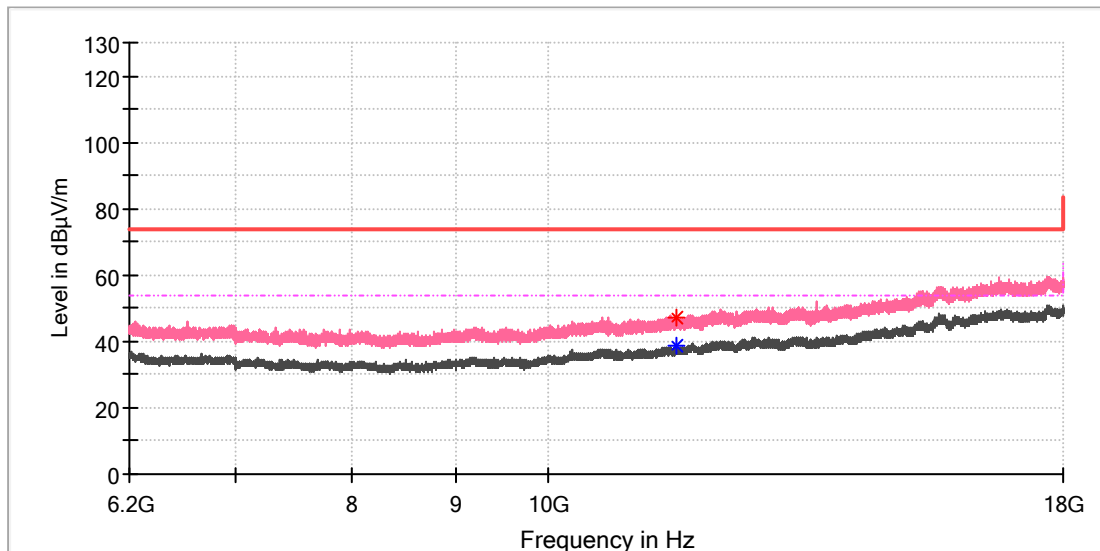
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7424.250000	---	34.51	54.00	19.49	150.0	H	147.0	8.4
7473.416667	43.23	---	74.00	30.77	150.0	H	134.0	8.6
11575.391667	---	39.43	54.00	14.57	150.0	H	0.0	13.4
11630.950000	48.78	---	74.00	25.22	150.0	H	207.0	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 5.8G_60M_5787.5MHz
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

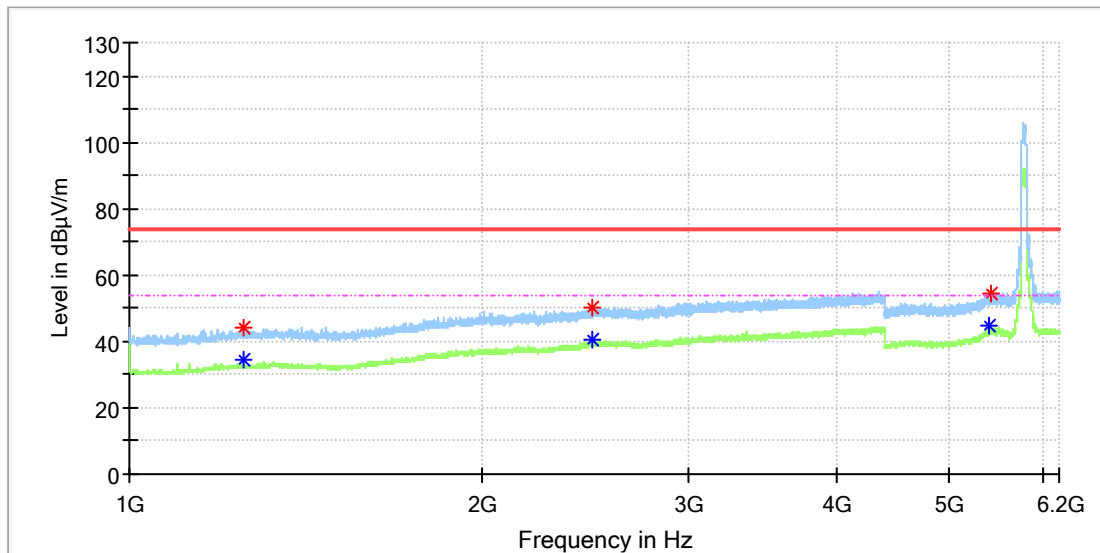
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11569.000000	46.93	---	74.00	27.07	150.0	V	289.0	13.4
11577.850000	---	38.81	54.00	15.19	150.0	V	129.0	13.4

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 5.8G_80M_5787.5MHz
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

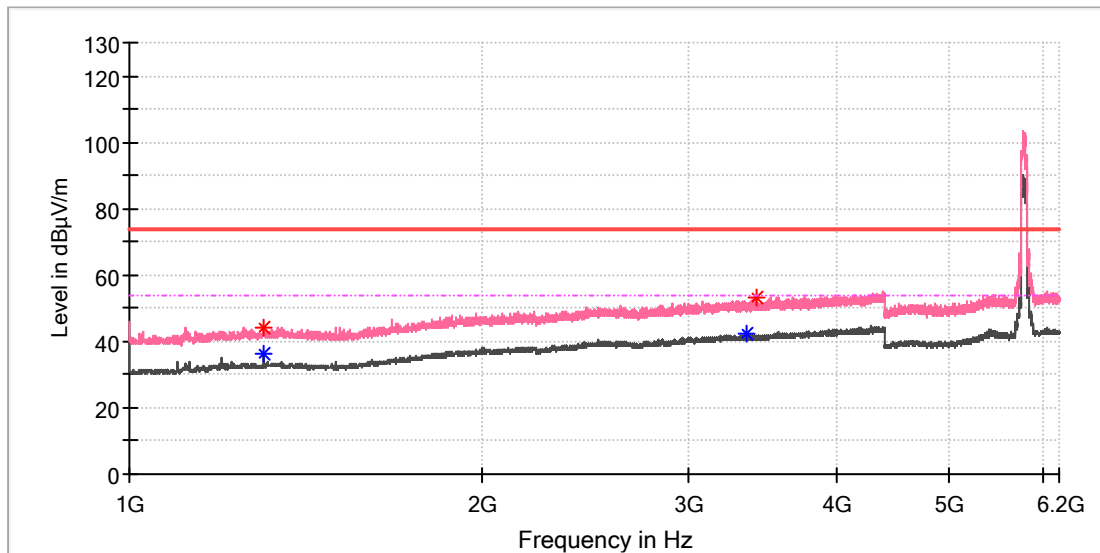
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.500000	---	34.33	54.00	19.67	150.0	H	211.0	1.9
1252.000000	44.06	---	74.00	29.94	150.0	H	0.0	1.9
2480.500000	---	40.43	54.00	13.57	150.0	H	179.0	7.4
2484.000000	50.33	---	74.00	23.67	150.0	H	98.0	7.4
5411.500000	---	44.46	54.00	9.54	150.0	H	145.0	13.5
5426.500000	54.35	---	74.00	19.65	150.0	H	354.0	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:	SDR 5.8G_80M_5787.5MHz
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

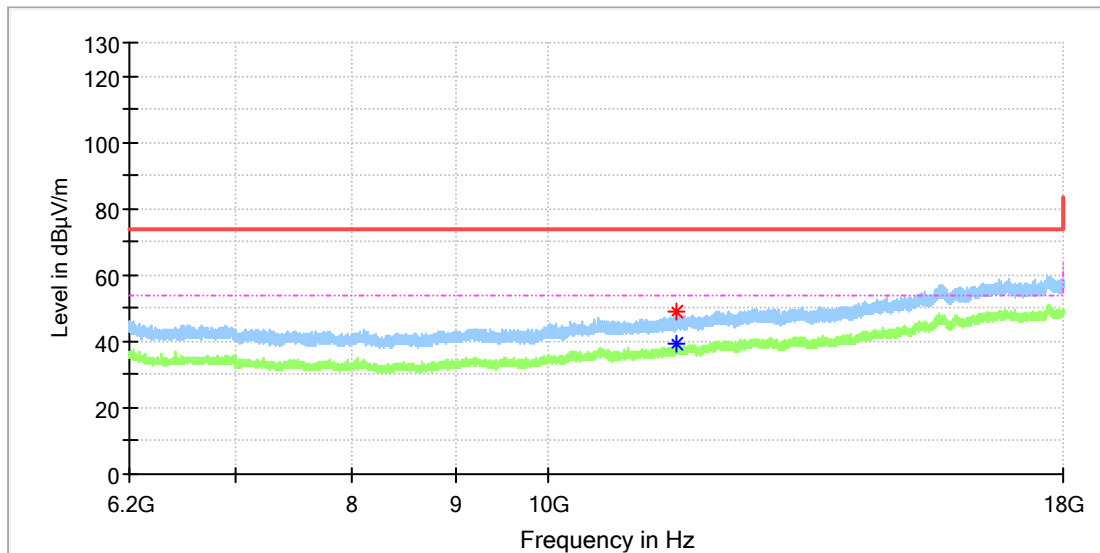
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1299.500000	43.85	---	74.00	30.15	150.0	V	82.0	1.9
1300.000000	---	36.28	54.00	17.72	150.0	V	10.0	1.9
3357.000000	---	42.10	54.00	11.90	150.0	V	0.0	8.6
3425.000000	53.46	---	74.00	20.54	150.0	V	173.0	8.8

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 5.8G_80M_5787.5MHz
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

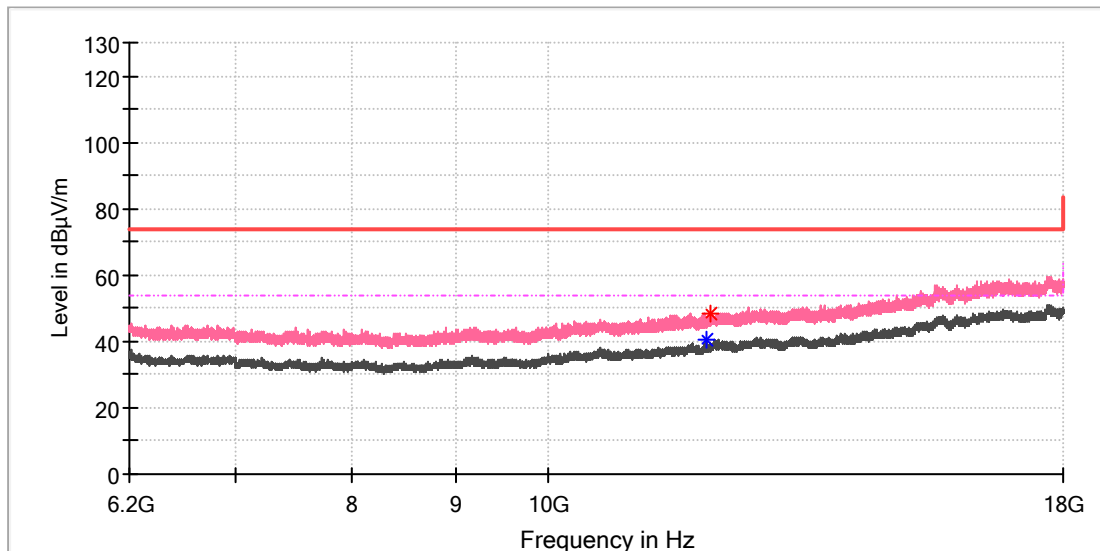
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11563.100000	48.85	---	74.00	25.15	150.0	H	98.0	13.4
11575.391667	---	39.57	54.00	14.43	150.0	H	98.0	13.4

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 5.8G_80M_5787.5MHz
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)
11985.441667	---	40.55	54.00	13.45	150.0	V	276.0	13.9
12035.591667	48.43	---	74.00	25.57	150.0	V	311.0	14.0

Final Result

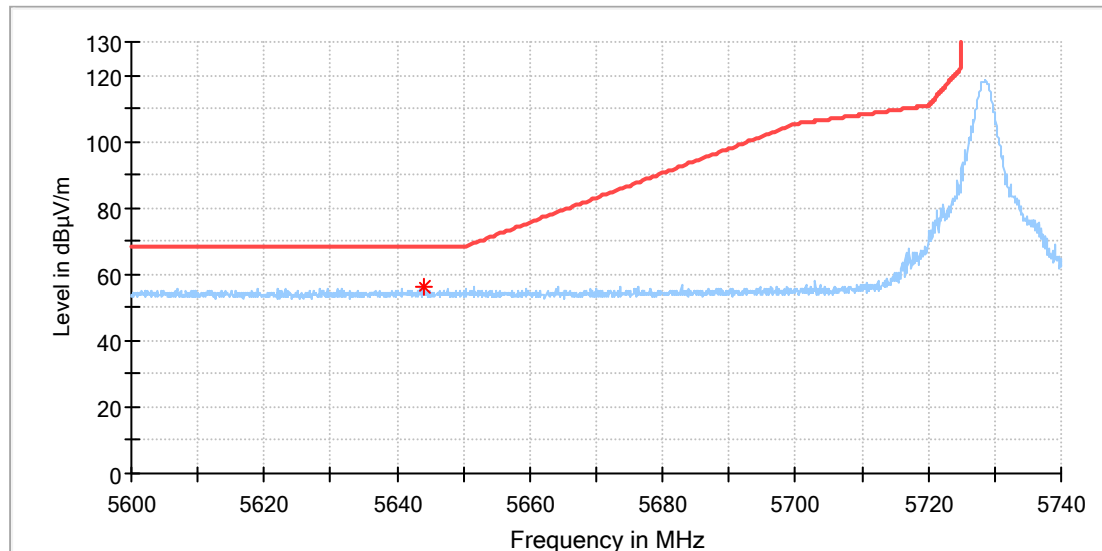
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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

5.8G SDR, 1.4MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_1.4M_5728.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

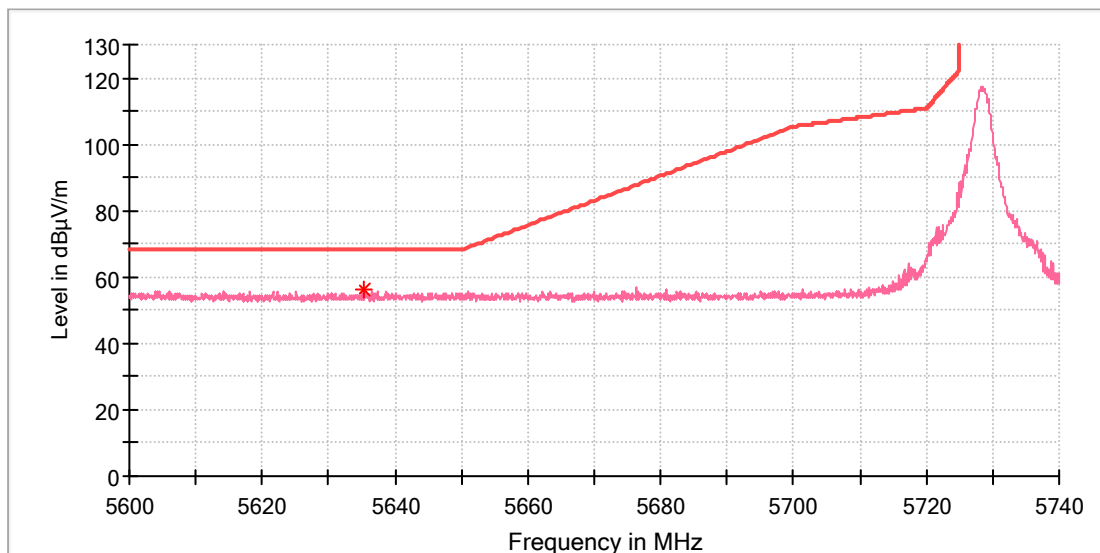
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5644.183333	56.01	68.20	12.19	150.0	H	287.0	13.8

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:	SDR 5.8G_1.4M_5728.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

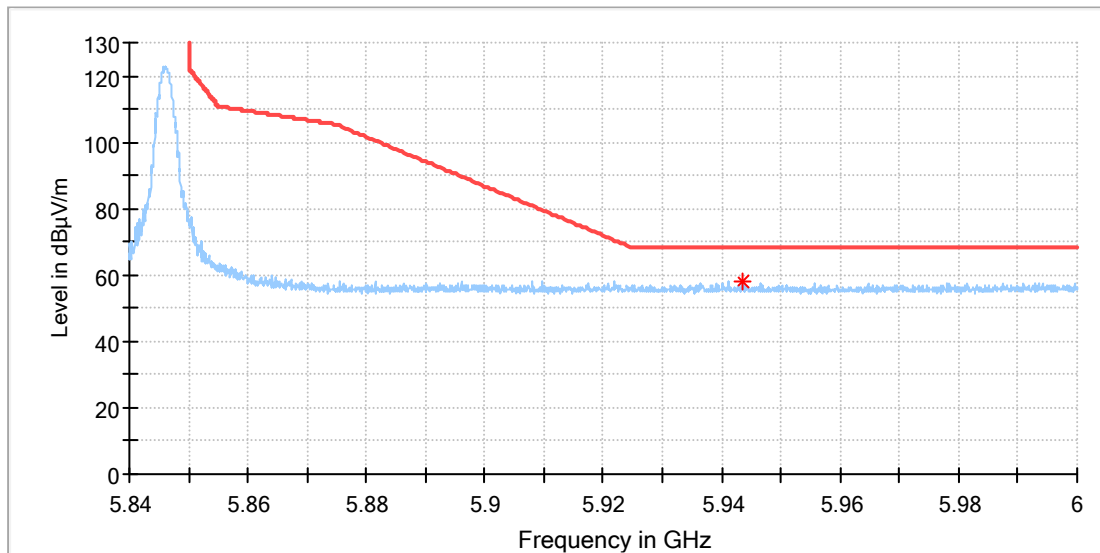
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5635.383333	56.27	68.20	11.93	150.0	V	201.0	13.8

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:	SDR 5.8G_1.4M_5846.12MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

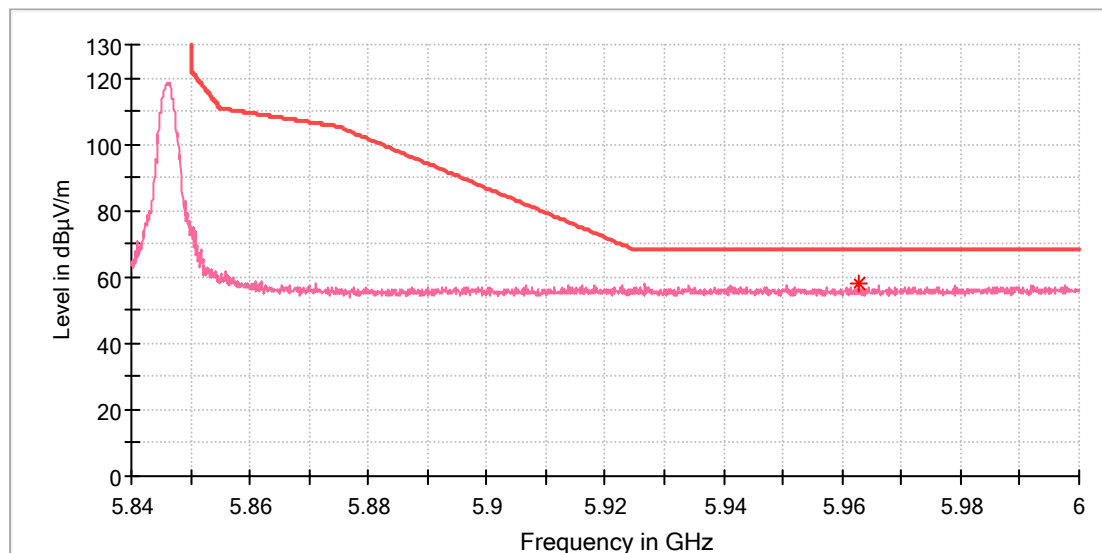
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5943.395833	57.90	68.20	10.30	150.0	H	133.0	14.7

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:	SDR 5.8G_1.4M_5846.12MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
5962.798611	57.80	68.20	10.40	150.0	V	284.0	14.8

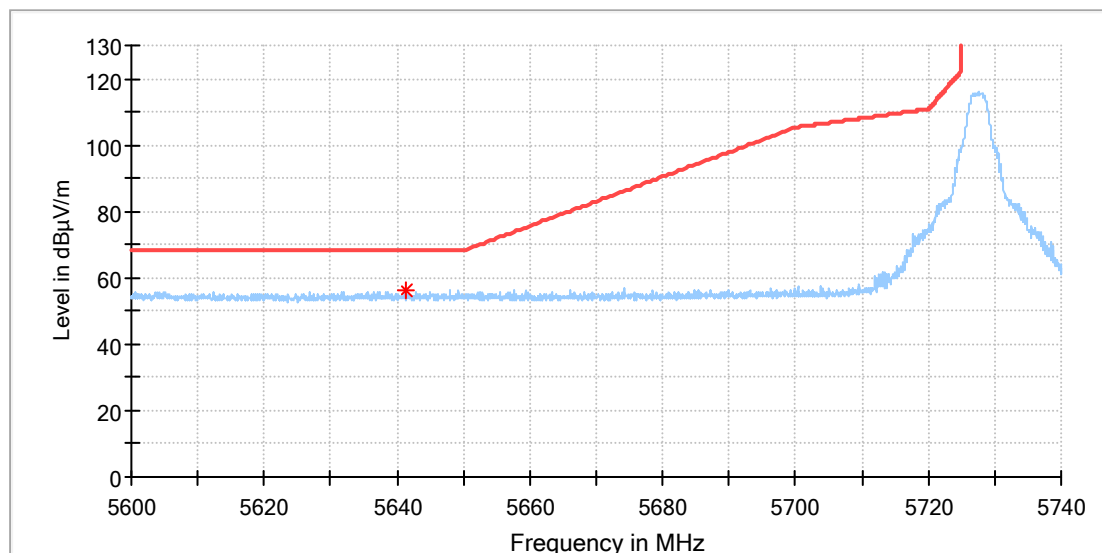
Final Result

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

5.8G SDR, 3MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_3M_5727.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

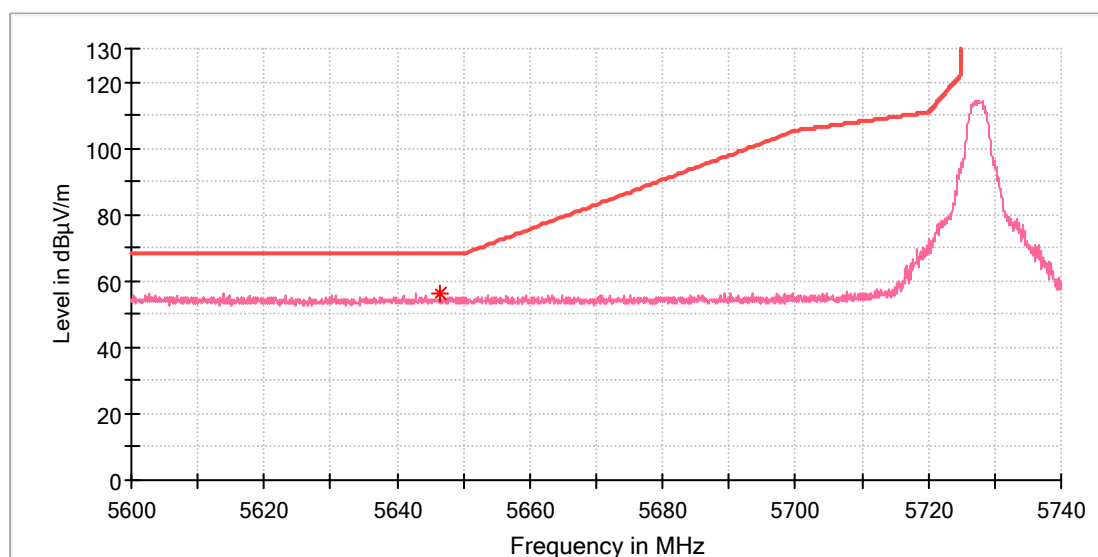
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5641.188889	56.06	68.20	12.14	150.0	H	55.0	13.8

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:	SDR 5.8G_3M_5727.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

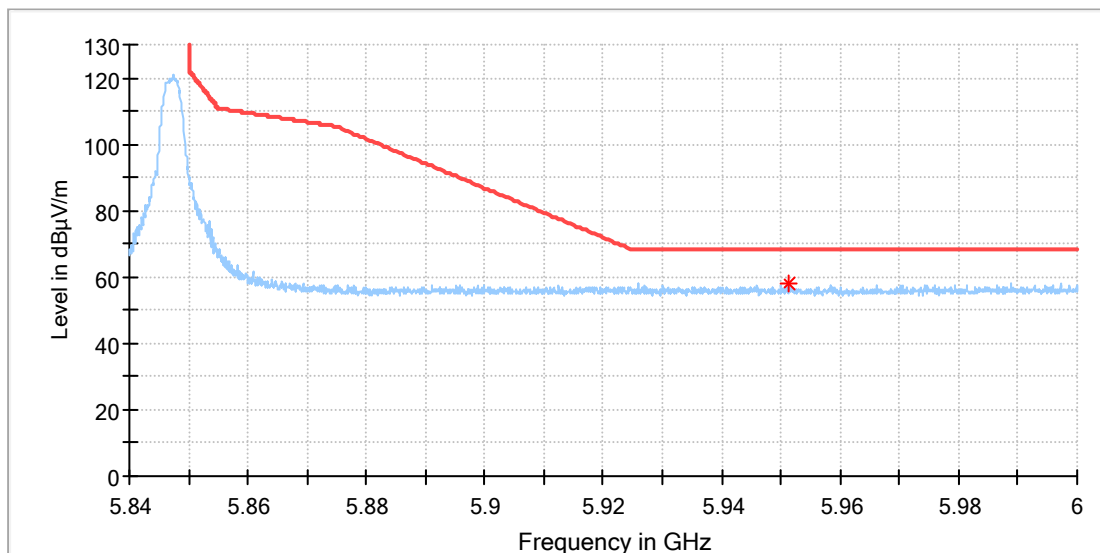
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5646.505556	56.15	68.20	12.05	150.0	V	210.0	13.8

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:	SDR 5.8G_3M_5847.2MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

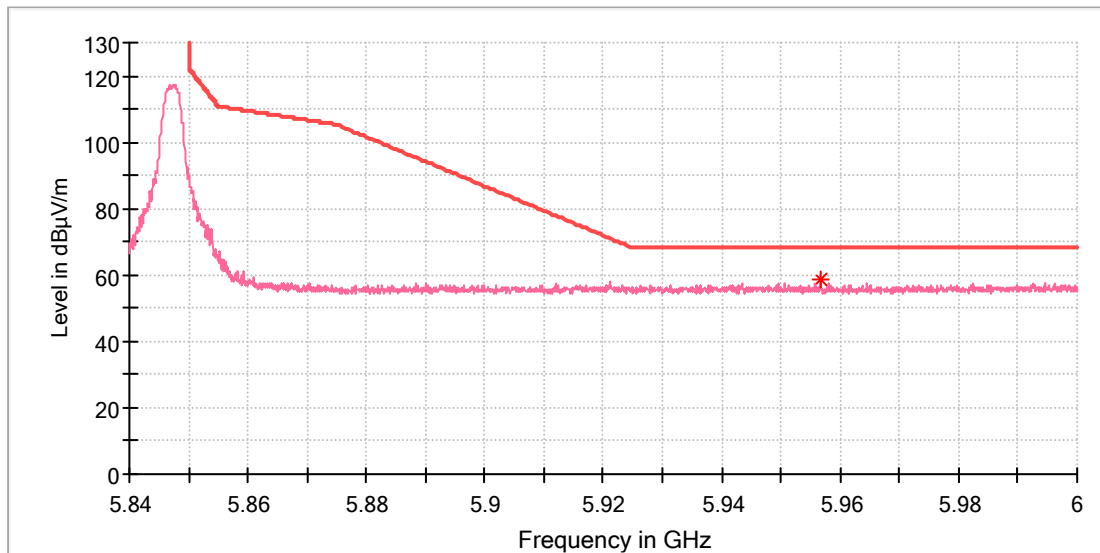
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5951.340278	57.88	68.20	10.32	150.0	H	343.0	14.8

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:	SDR 5.8G_3M_5847.2MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
5956.611111	58.74	68.20	9.46	150.0	V	129.0	14.8

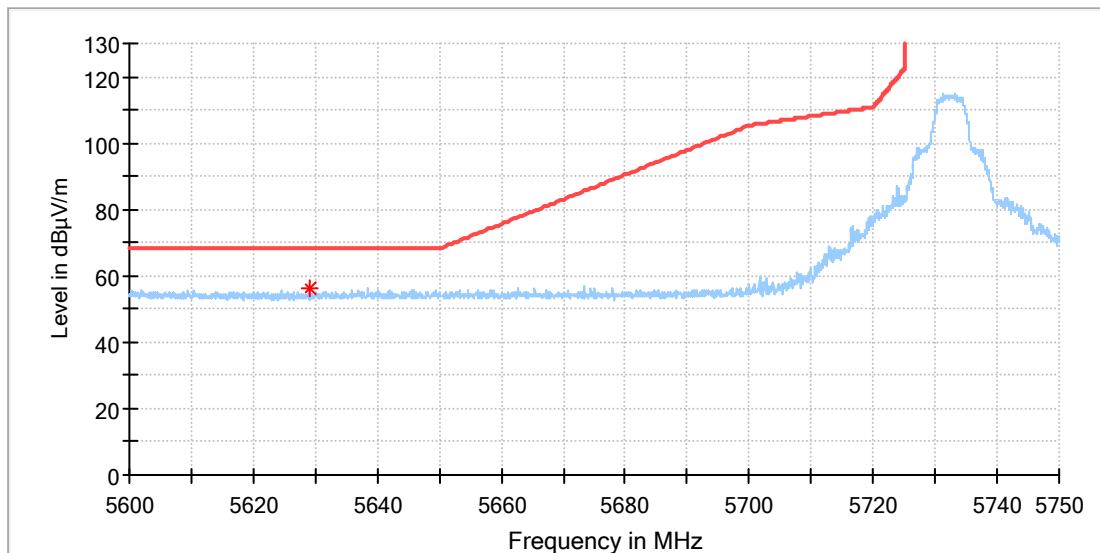
Final Result

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

5.8G SDR, 5MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_5M_5732.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

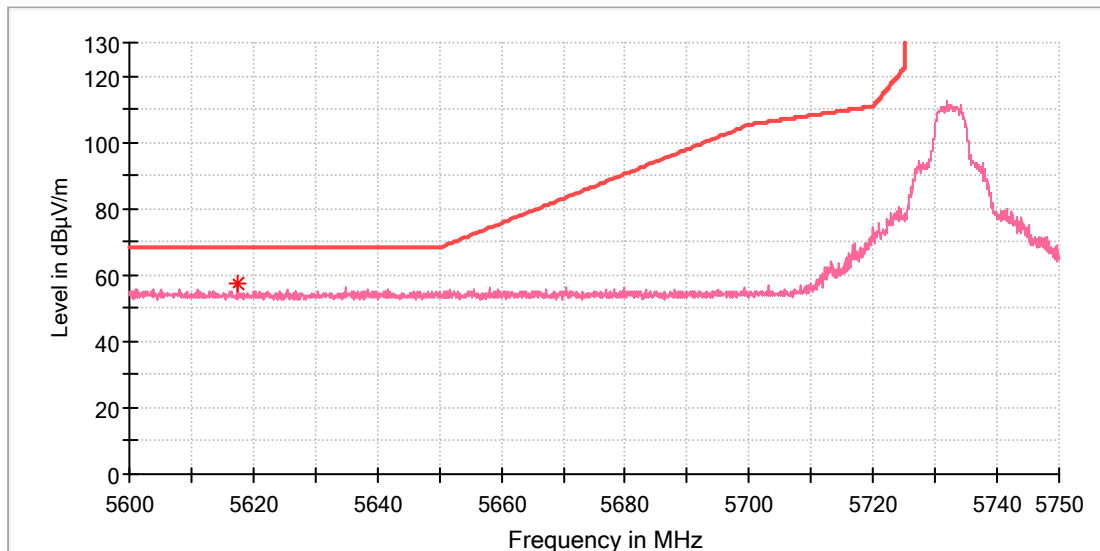
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5629.150000	56.00	68.20	12.20	150.0	H	232.0	13.8

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:	SDR 5.8G_5M_5732.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

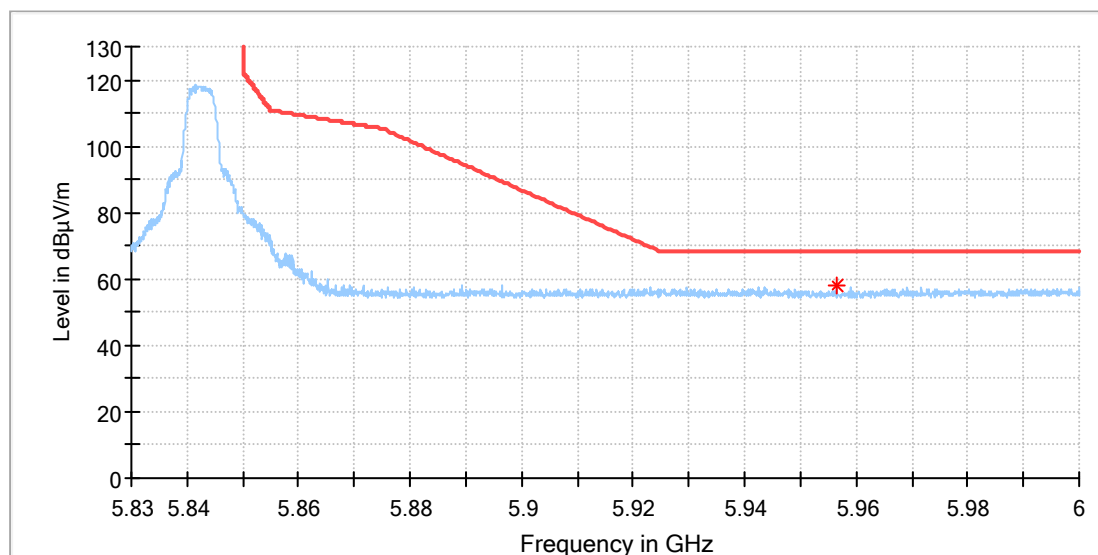
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5617.416667	57.28	68.20	10.92	150.0	V	91.0	13.8

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:	SDR 5.8G_5M_5842.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

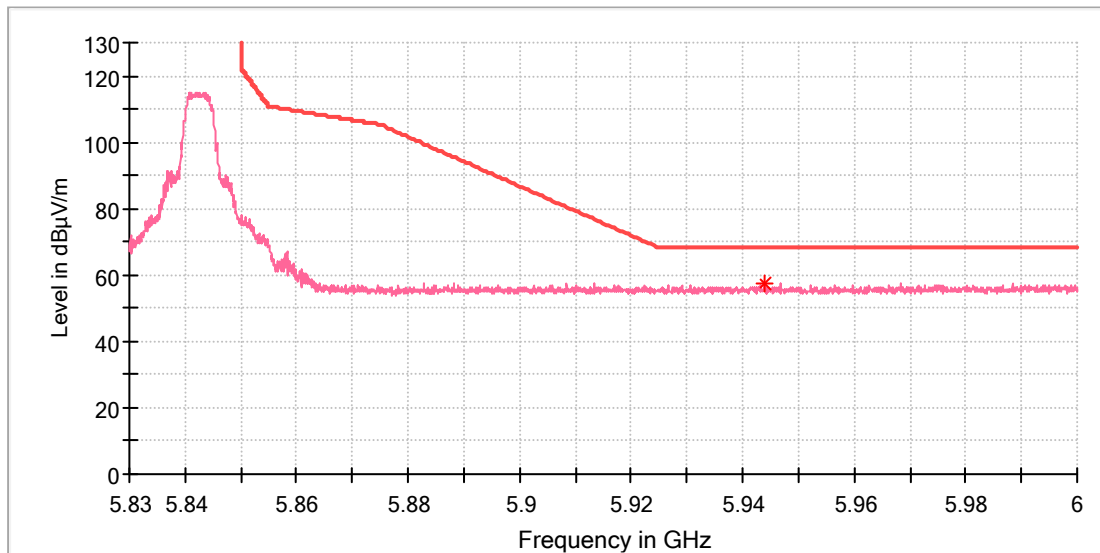
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5956.458333	57.92	68.20	10.28	150.0	H	82.0	14.8

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:	SDR 5.8G_5M_5842.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
5943.854167	57.44	68.20	10.76	150.0	V	150.0	14.7

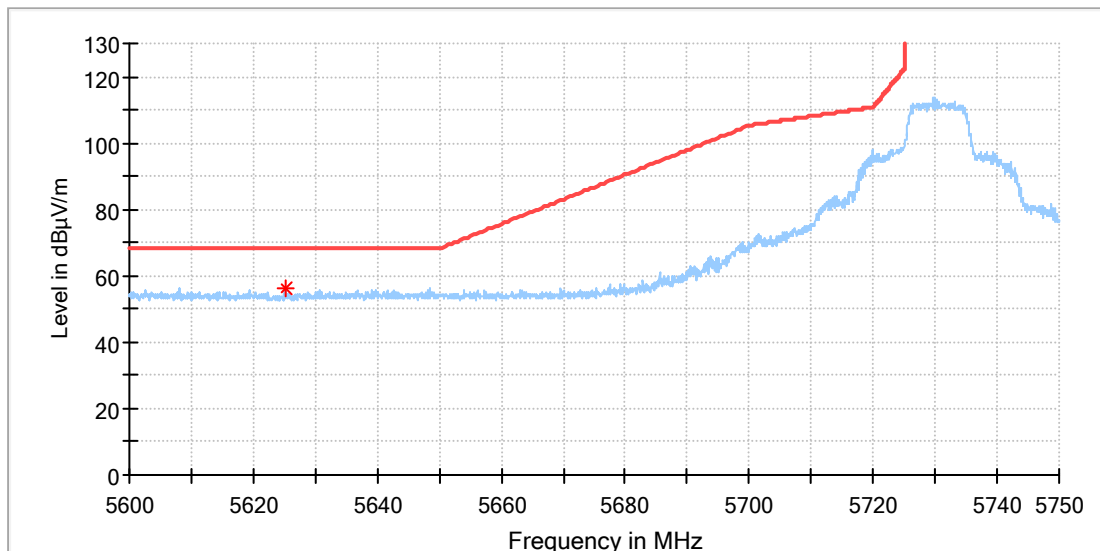
Final Result

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

5.8G SDR, 10MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_10M_5730.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

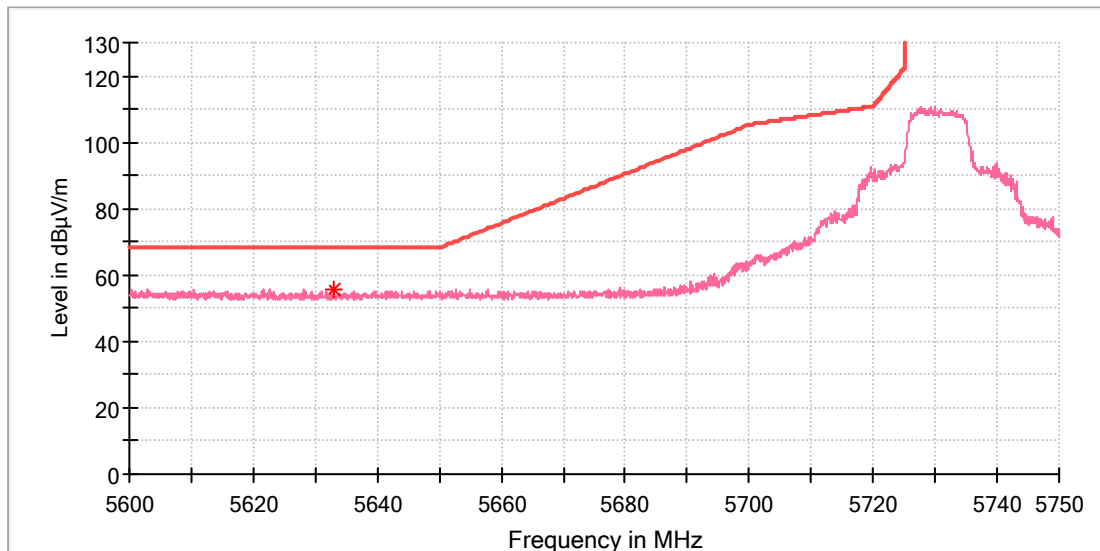
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5625.055556	56.09	68.20	12.11	150.0	H	154.0	13.8

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:	SDR 5.8G_10M_5730.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

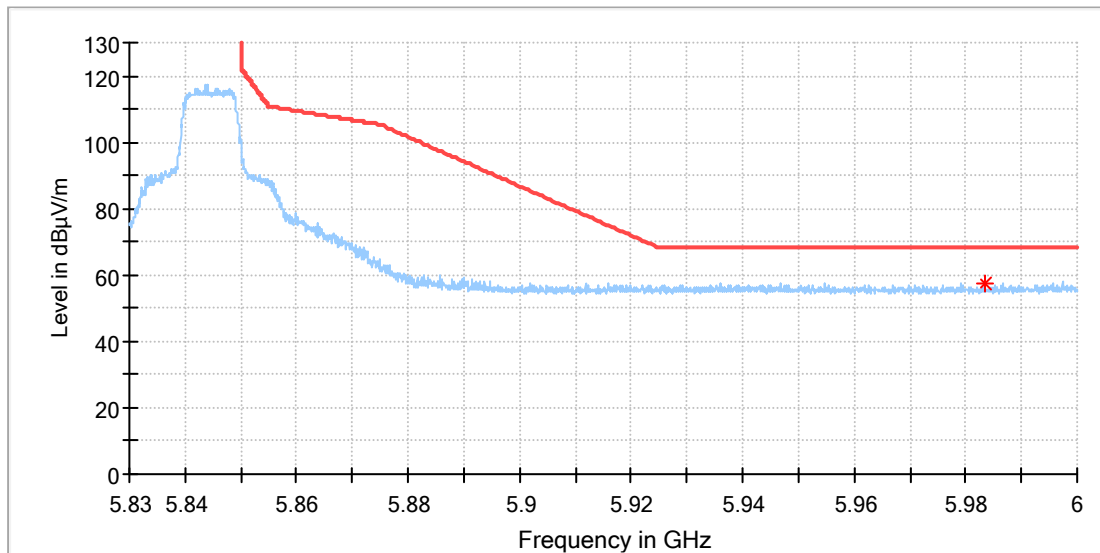
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5632.938889	55.41	68.20	12.79	150.0	V	193.0	13.8

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:	SDR 5.8G_10M_5844.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

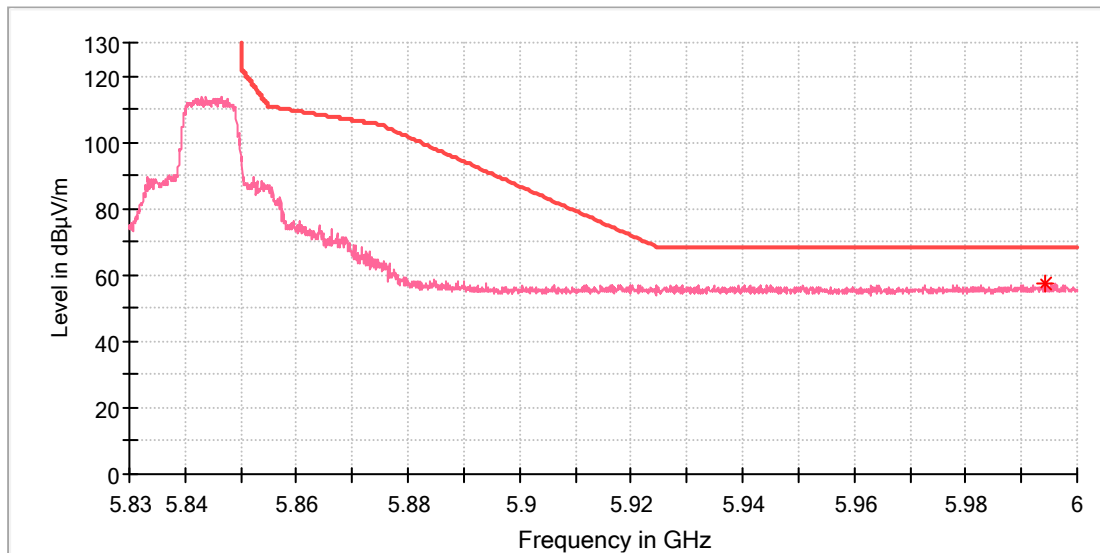
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5983.500000	57.61	68.20	10.59	150.0	H	0.0	14.9

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 5.8G_10M_5844.5MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
5994.423611	57.58	68.20	10.62	150.0	V	269.0	15.0

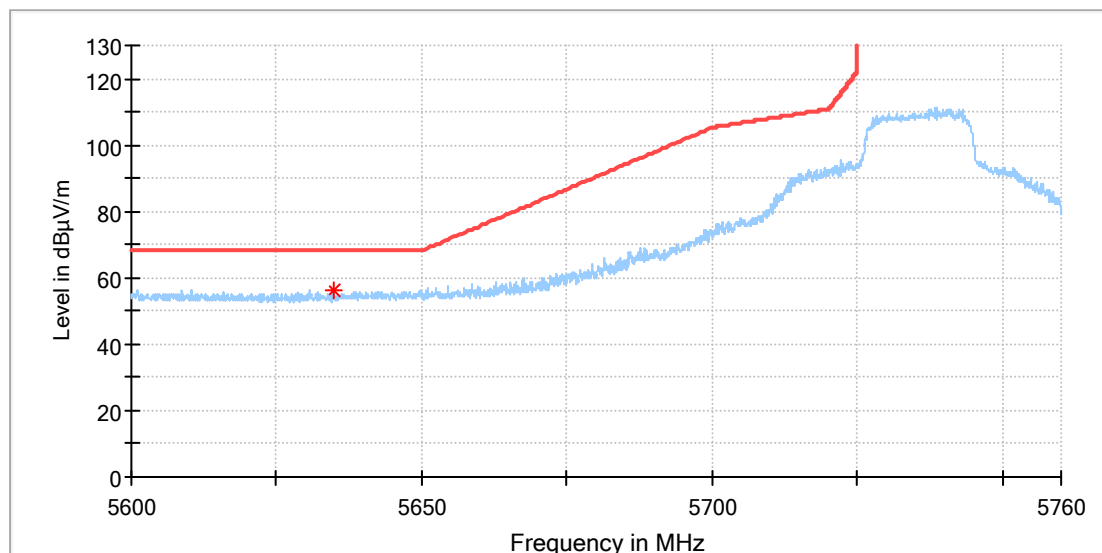
Final Result

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

5.8G SDR, 20MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_20M_5735.5MHz
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

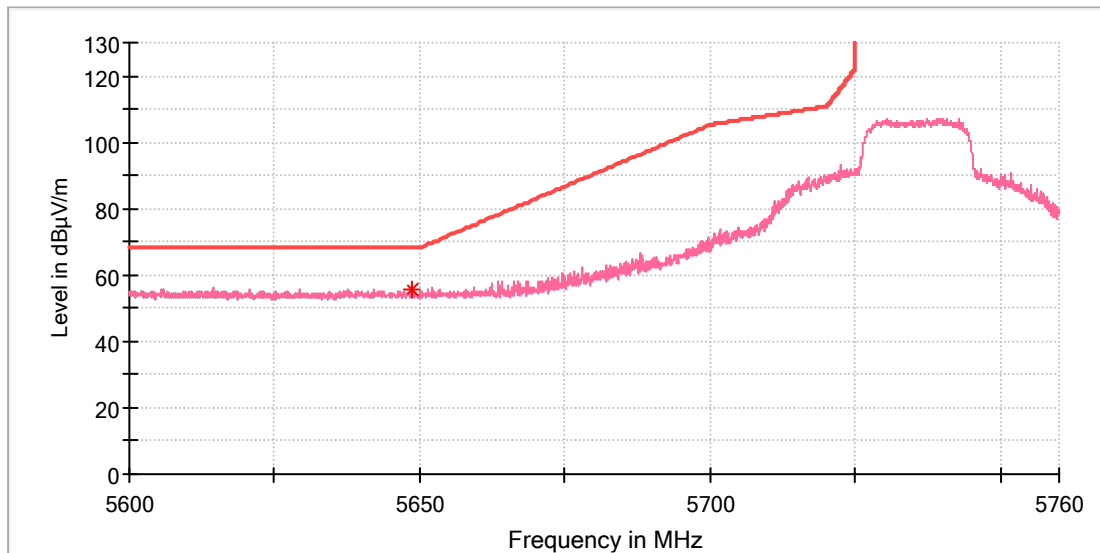
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5634.711111	56.38	68.20	11.82	150.0	H	222.0	13.8

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:	SDR 5.8G_20M_5735.5MHz
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

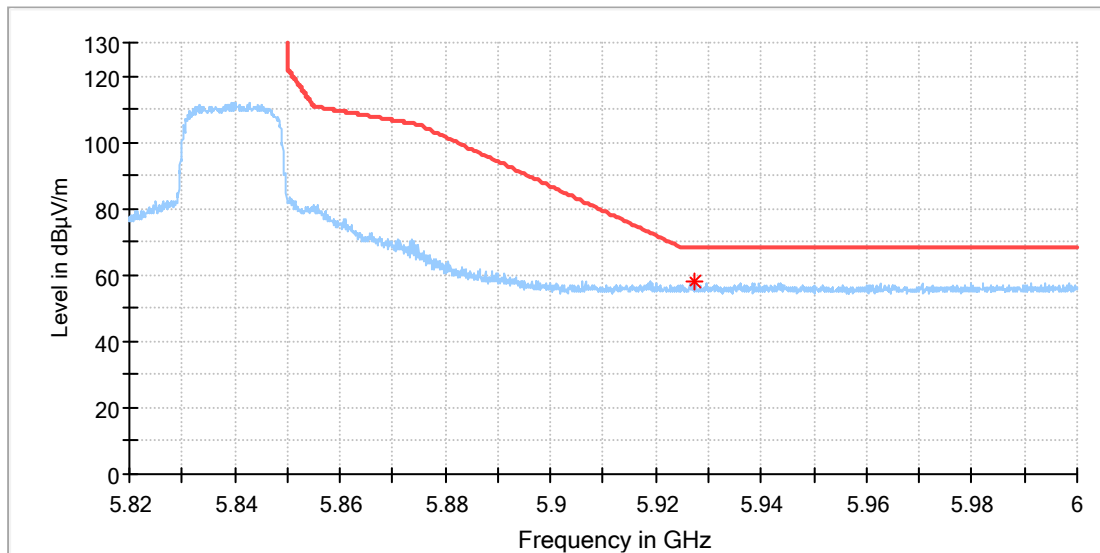
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5648.583333	55.74	68.20	12.46	150.0	V	263.0	13.8

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:	SDR 5.8G_20M_5839.5MHz
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

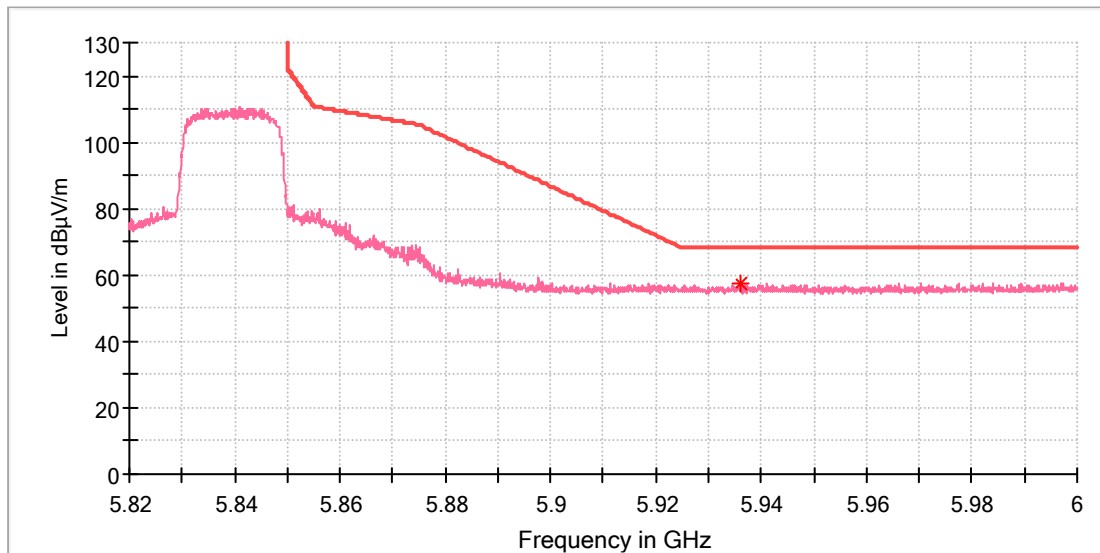
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5927.277778	58.26	68.20	9.94	150.0	H	359.0	14.7

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:	SDR 5.8G_20M_5839.5MHz
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)
5935.986111	57.45	68.20	10.75	150.0	V	276.0	14.7

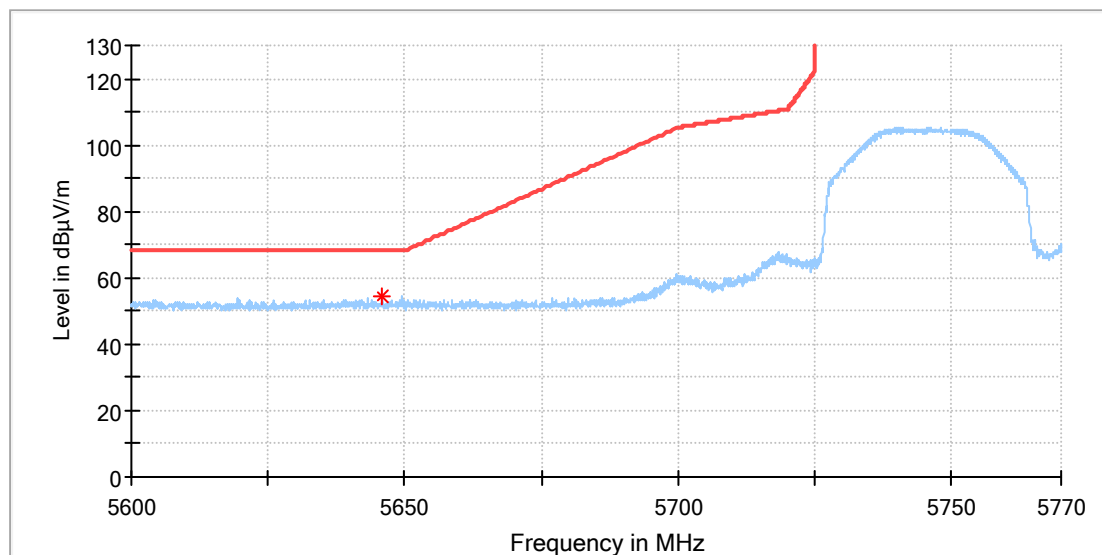
Final Result

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

5.8G SDR, 40MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_40M_5745.5MHz
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

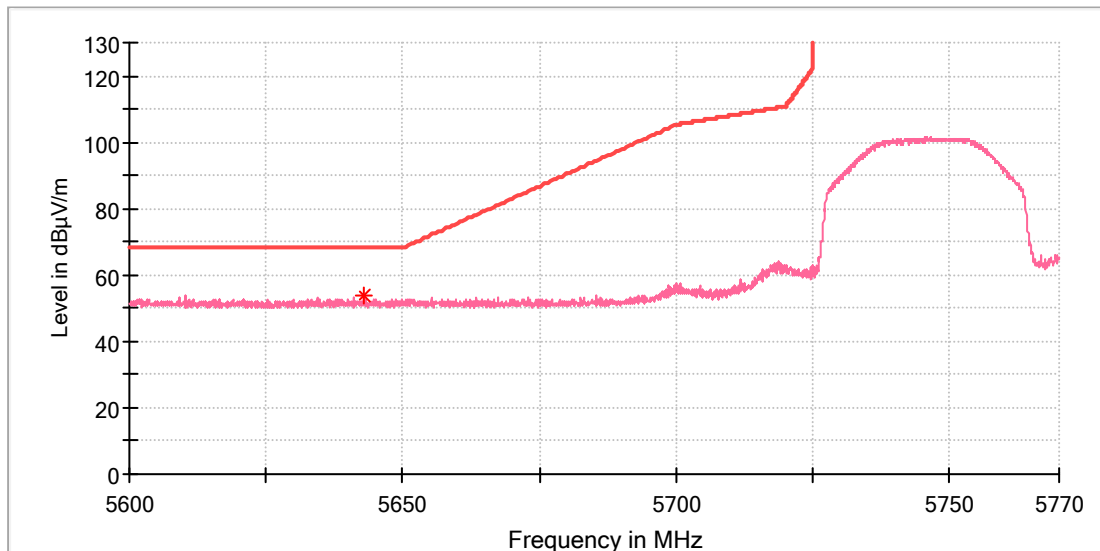
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5645.955556	54.20	68.20	14.00	150.0	H	164.0	13.8

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:	SDR 5.8G_40M_5745.5MHz
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

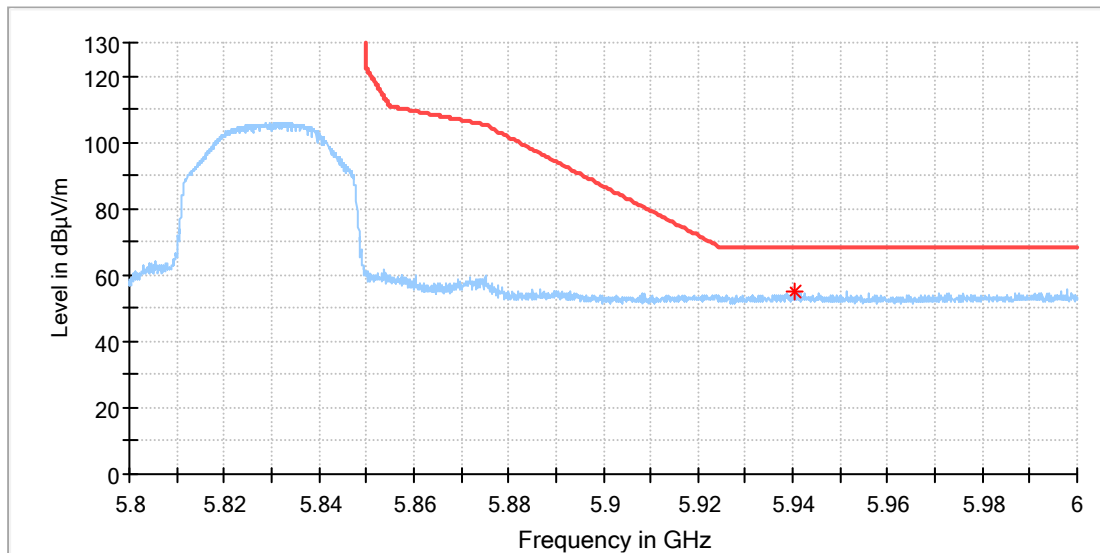
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5642.777778	53.74	68.20	14.46	150.0	V	231.0	13.8

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:	SDR 5.8G_40M_5829.5MHz
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

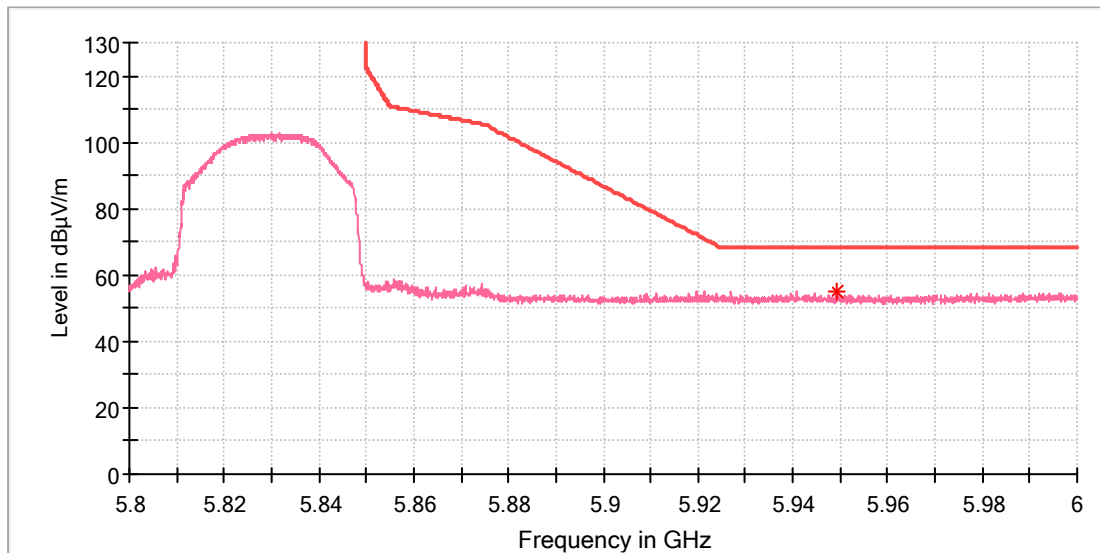
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5940.340278	55.02	68.20	13.18	150.0	H	118.0	14.7

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:	SDR 5.8G_40M_5829.5MHz
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)
5949.125000	54.96	68.20	13.24	150.0	V	214.0	14.8

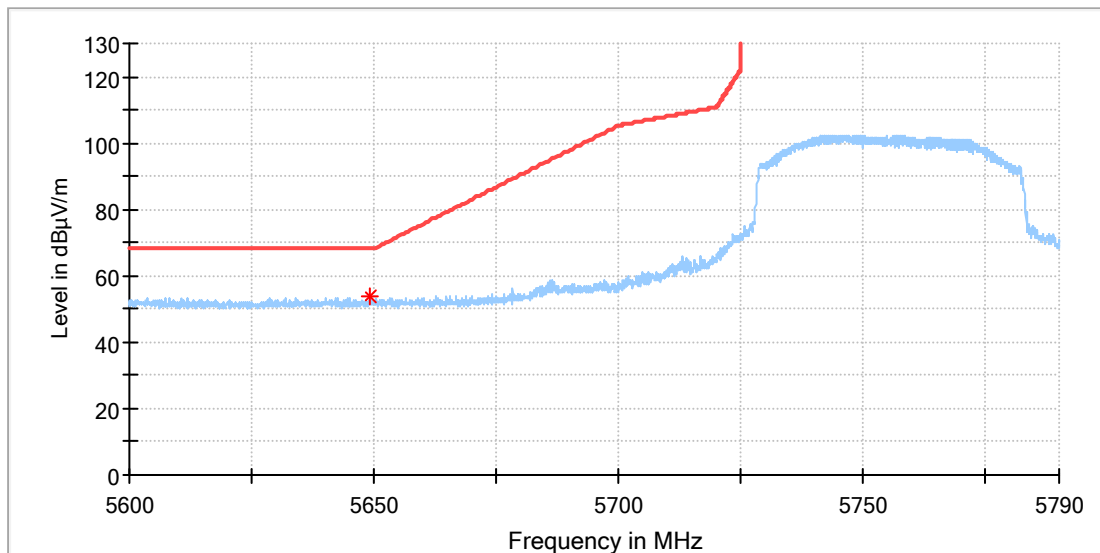
Final Result

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

5.8G SDR, 60MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_60M_5755.5MHz
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

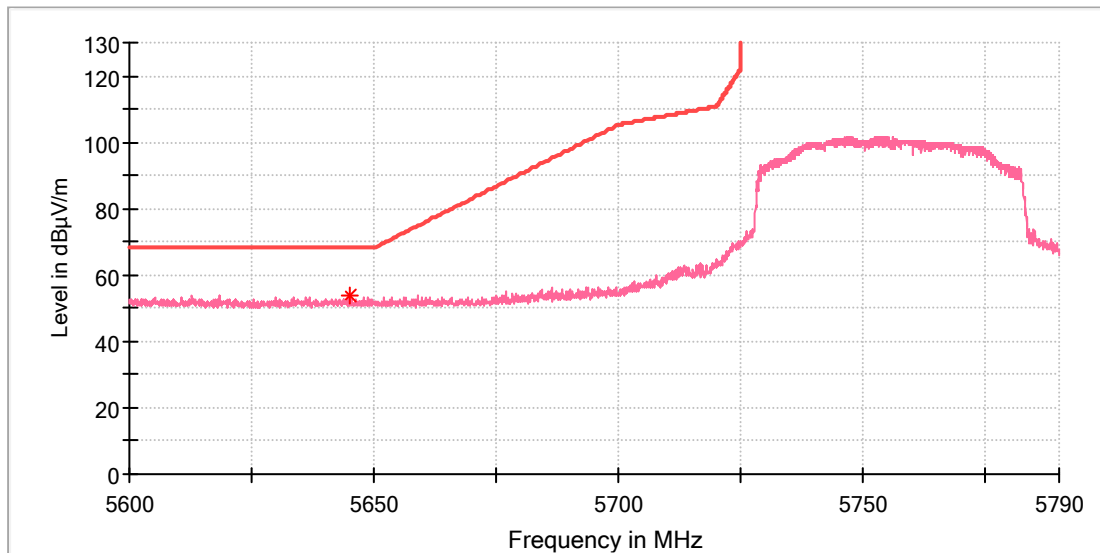
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5649.194445	53.76	68.20	14.44	150.0	H	237.0	13.8

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:	SDR 5.8G_60M_5755.5MHz
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

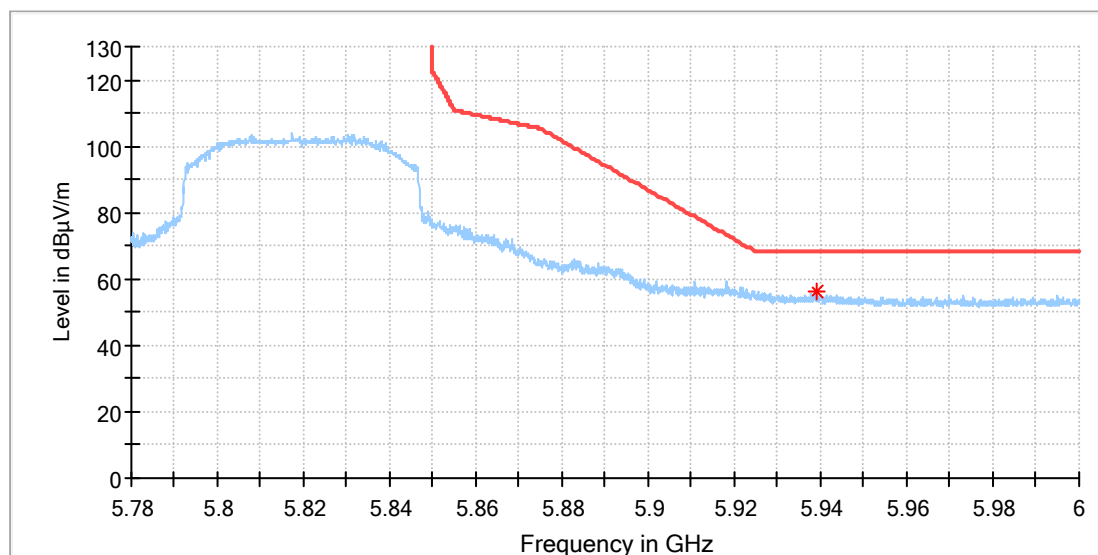
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5644.855556	53.81	68.20	14.39	150.0	V	137.0	13.8

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:	SDR 5.8G_60M_5819.5MHz
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

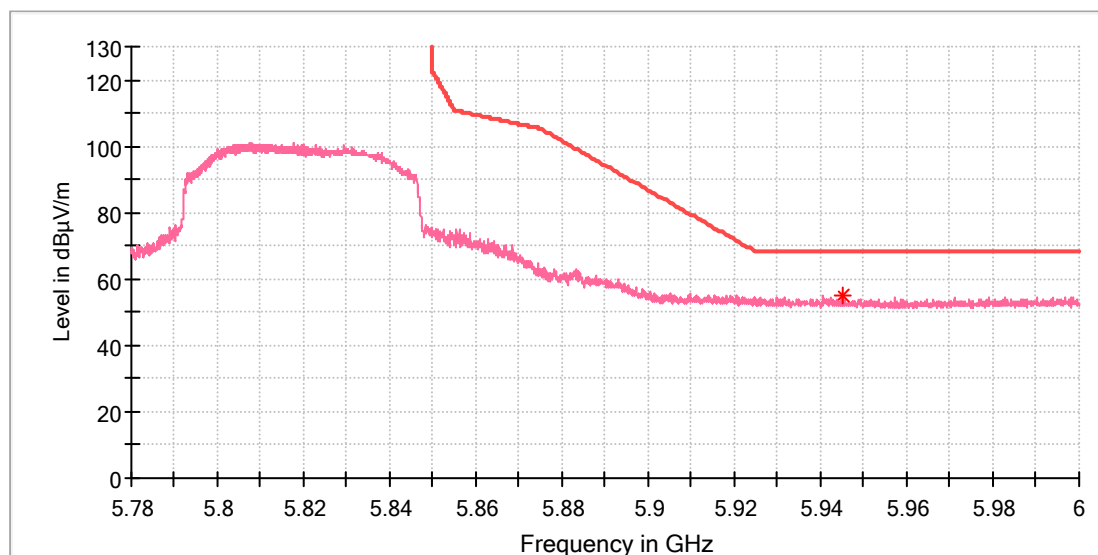
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5939.194445	56.35	68.20	11.85	150.0	H	5.0	14.7

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:	SDR 5.8G_60M_5819.5MHz
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)
5944.923611	55.18	68.20	13.02	150.0	V	261.0	14.7

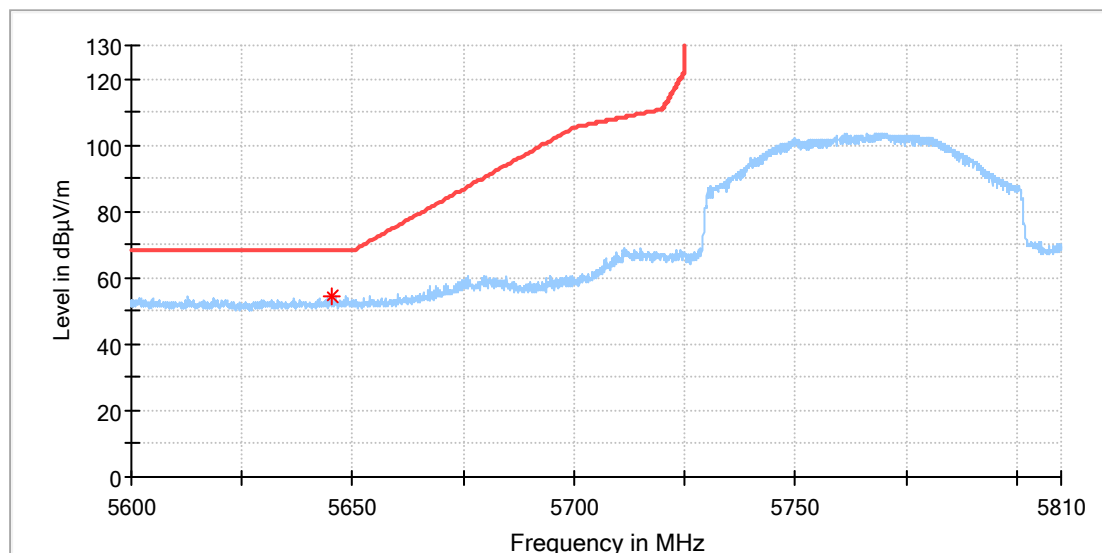
Final Result

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

5.8G SDR, 80MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.8G_80M_5765.5MHz
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

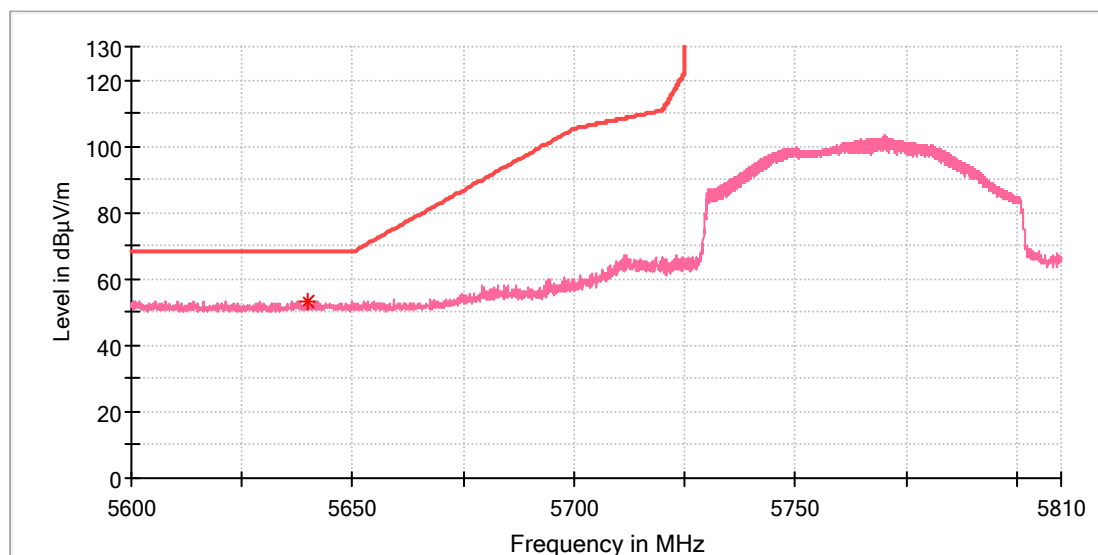
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5645.466667	54.28	68.20	13.92	150.0	H	67.0	13.8

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:	SDR 5.8G_80M_5765.5MHz
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

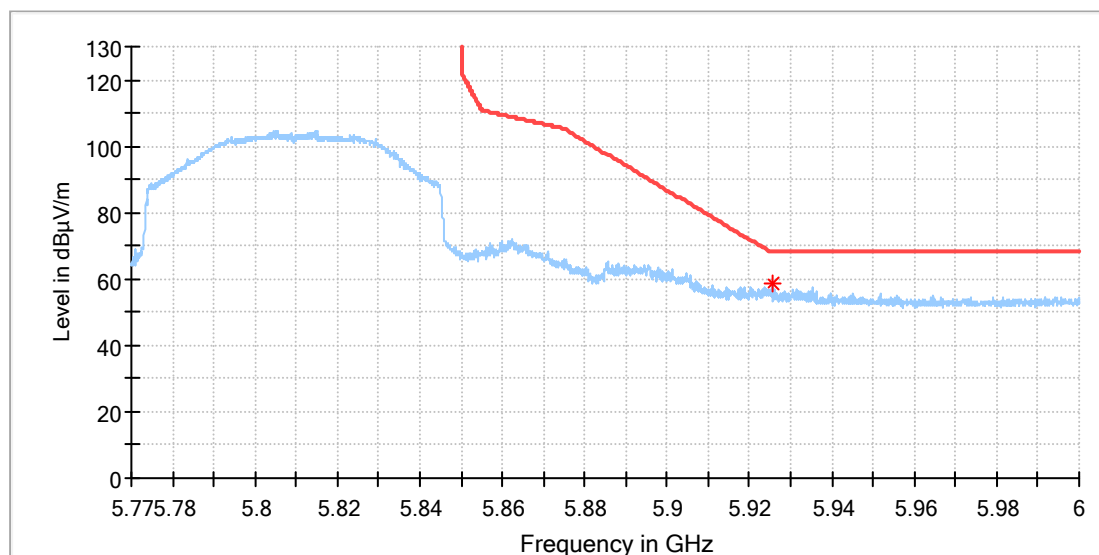
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5639.661111	53.19	68.20	15.01	150.0	V	75.0	13.8

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:	SDR 5.8G_80M_5809.5MHz
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

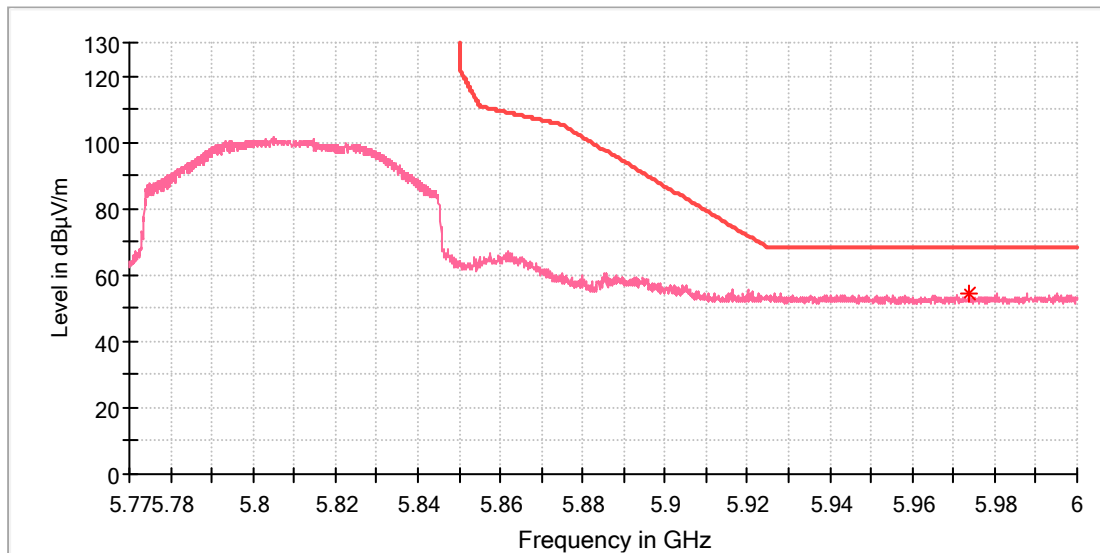
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5925.673611	58.91	68.20	9.29	150.0	H	0.0	14.7

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:	SDR 5.8G_80M_5809.5MHz
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)
5973.951389	54.69	68.20	13.51	150.0	V	213.0	14.9

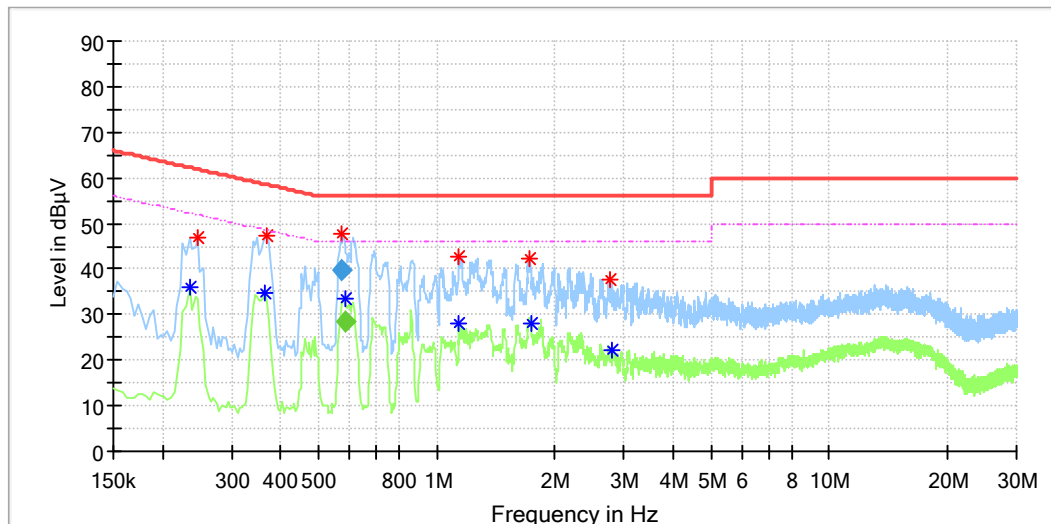
Final Result

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:	5G SDR 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

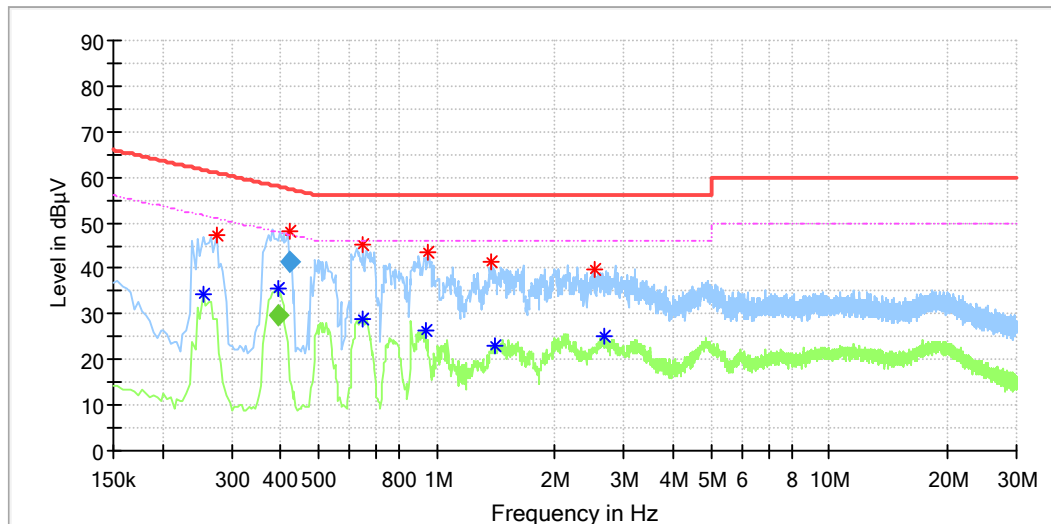
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.234000	---	36.19	52.31	16.11	L1	9.9
0.246000	46.90	---	61.89	14.99	L1	9.9
0.366000	---	34.87	48.59	13.72	L1	9.9
0.370000	47.44	---	58.50	11.06	L1	9.9
0.573500	47.72	---	56.00	8.28	L1	10.0
0.582500	---	33.29	46.00	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: 5G SDR 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