

Appendix A: Test Results of Wi-Fi 802.11 b/g/n

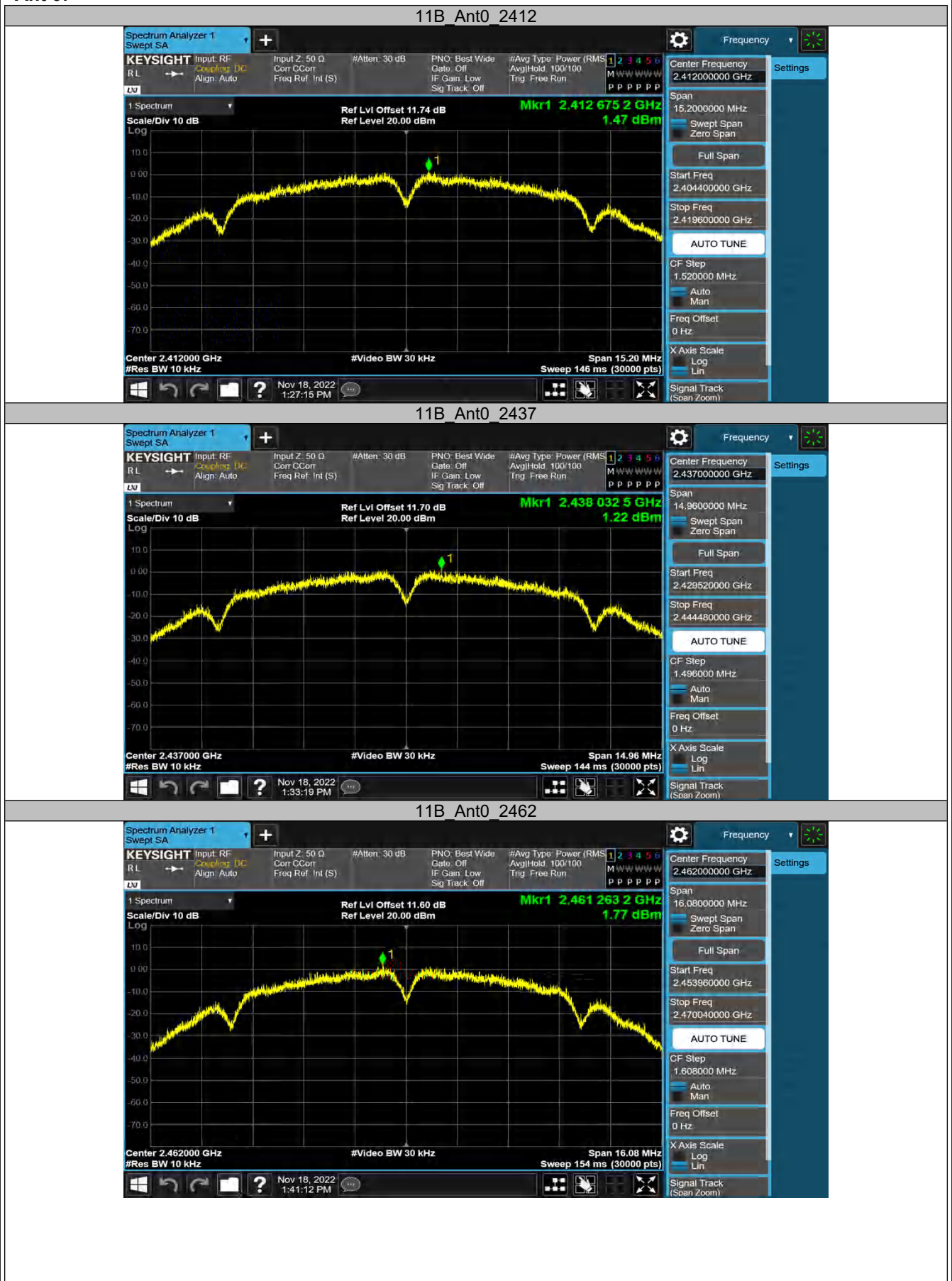
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Appendix A.1: Test Results of Conducted Power Spectral Density

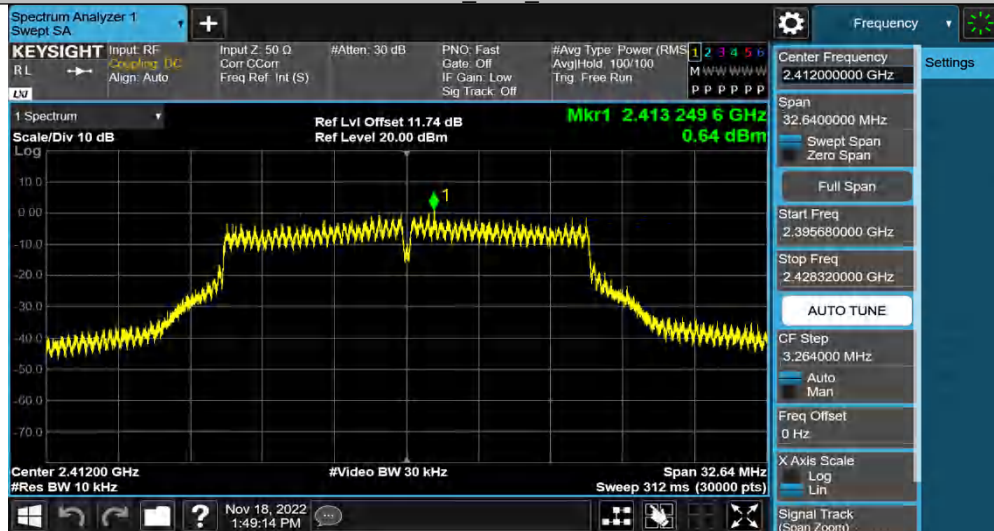
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant0	2412	1.47	≤8.00	PASS
		2437	1.22	≤8.00	PASS
		2462	1.77	≤8.00	PASS
11G	Ant0	2412	0.64	≤8.00	PASS
		2437	0.47	≤8.00	PASS
		2462	-1.46	≤8.00	PASS
11N20SISO	Ant0	2412	-3.59	≤8.00	PASS
		2437	-3.28	≤8.00	PASS
		2462	-3.56	≤8.00	PASS

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	1.76	≤8.00	PASS
		2437	1.51	≤8.00	PASS
		2462	1.07	≤8.00	PASS
11G	Ant1	2412	-0.49	≤8.00	PASS
		2437	-0.72	≤8.00	PASS
		2462	-0.37	≤8.00	PASS
11N20SISO	Ant1	2412	-4.1	≤8.00	PASS
		2437	-3.81	≤8.00	PASS
		2462	-3.52	≤8.00	PASS

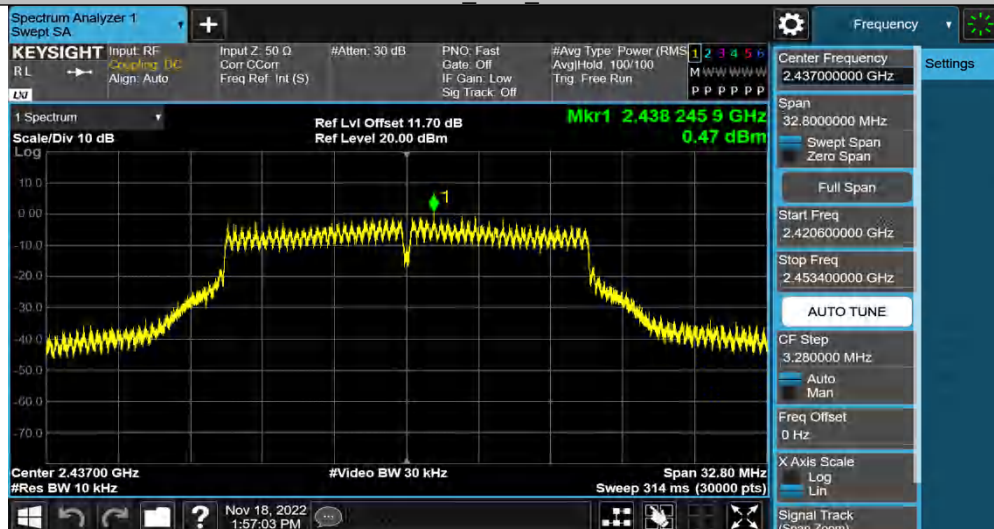
Ant 0:



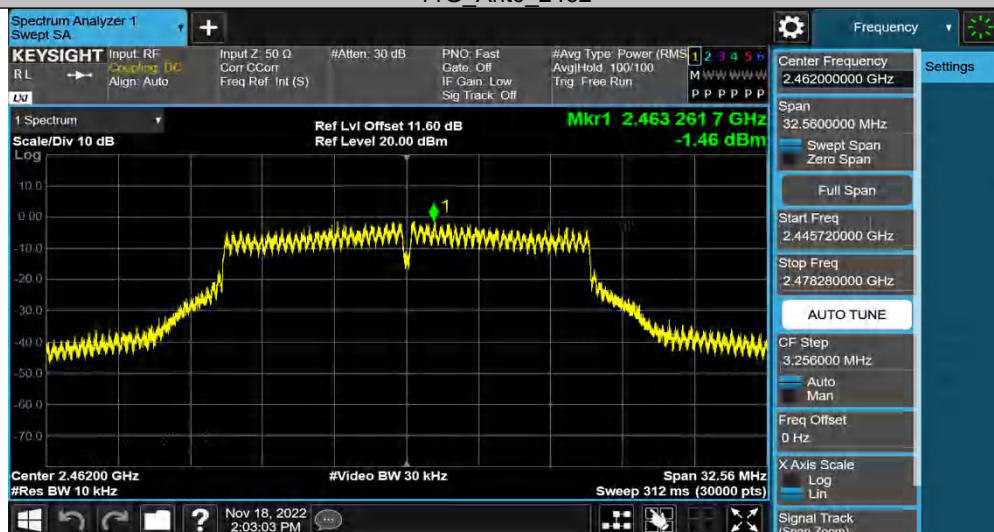
11G_Ant0_2412



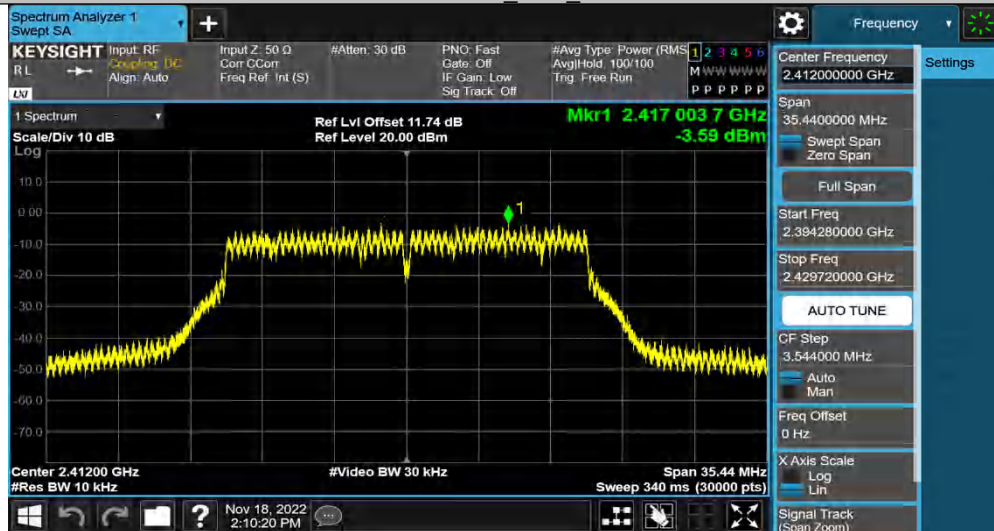
11G_Ant0_2437



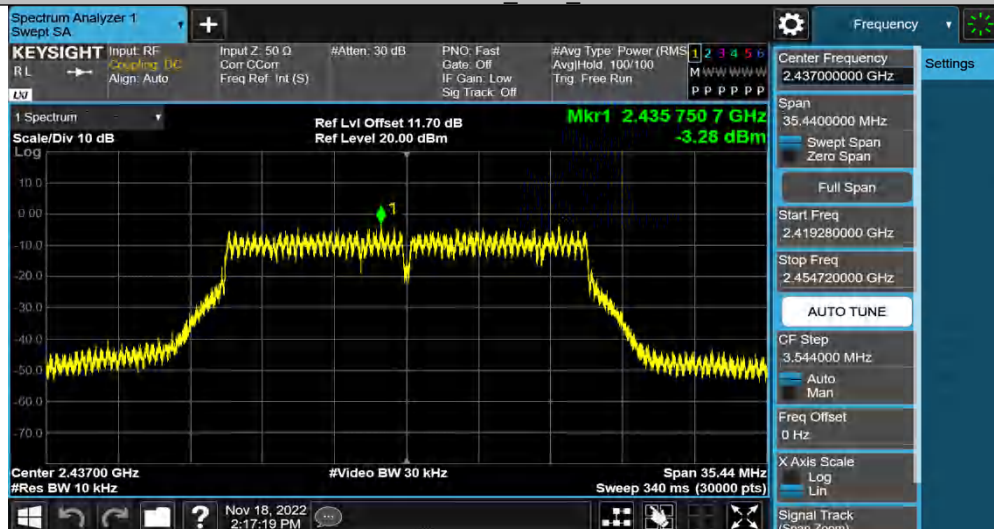
11G_Ant0_2462



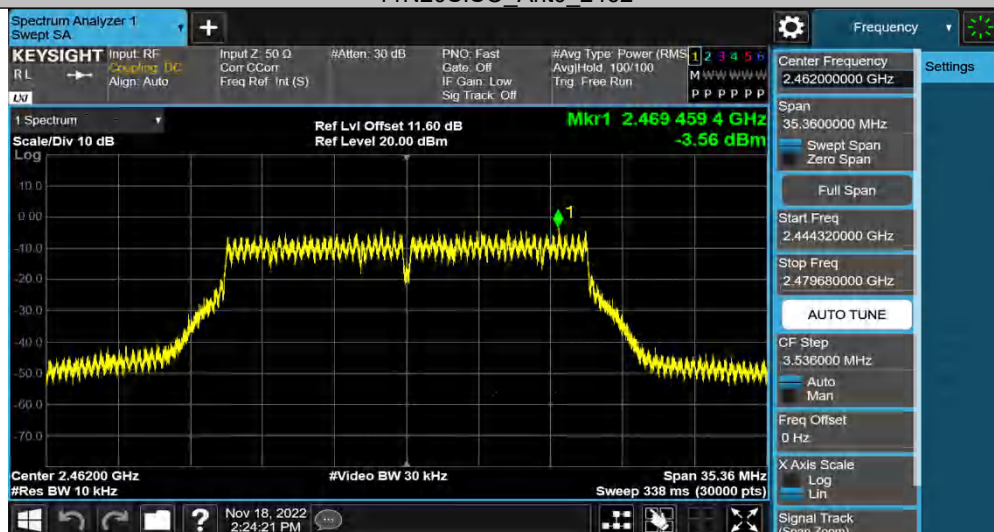
11N20SISO Ant0 2412



11N20SISO Ant0 2437



11N20SISO Ant0 2462



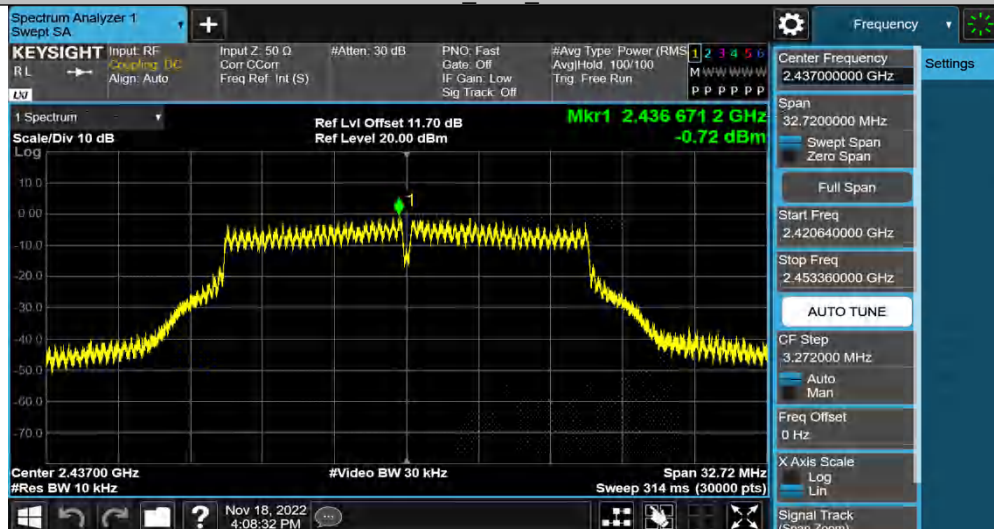
Ant 1:



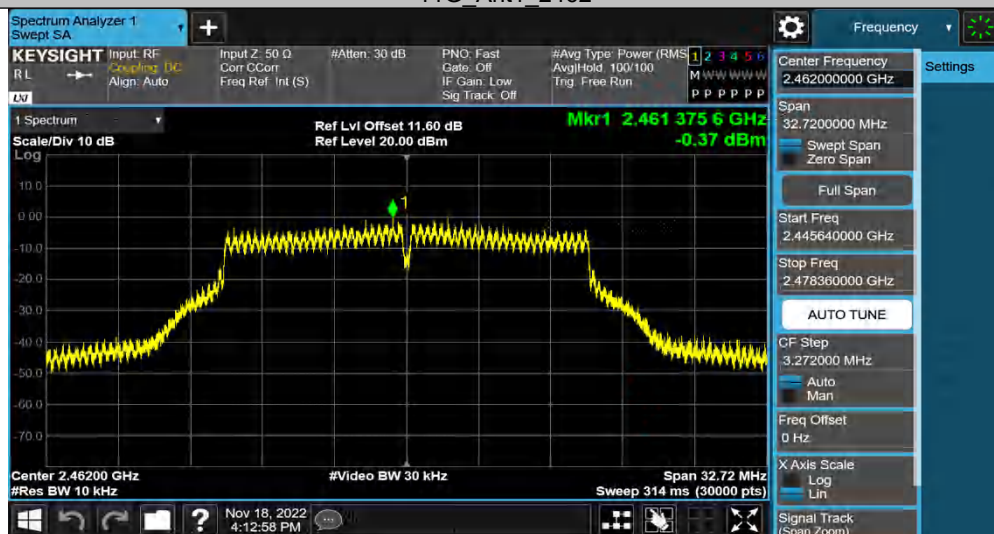
11G_Ant1_2412



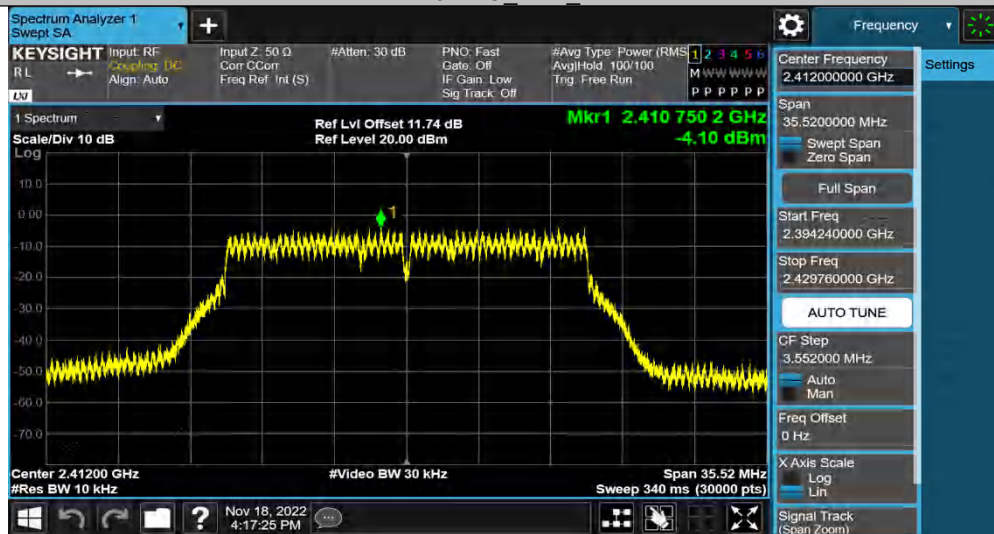
11G_Ant1_2437



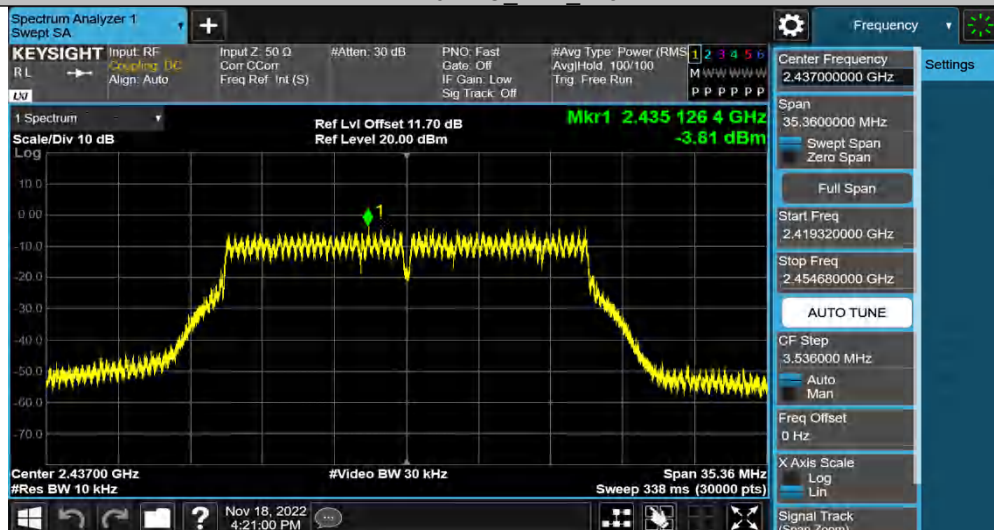
11G_Ant1_2462



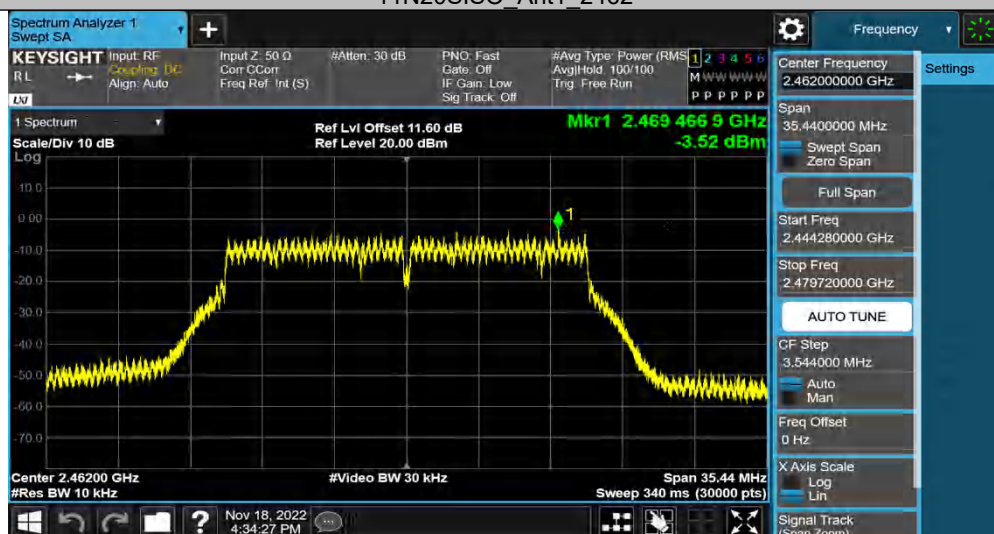
11N20SISO Ant1 2412



11N20SISO Ant1 2437



11N20SISO Ant1 2462



Appendix A.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.560	2408.000	2415.560	0.5	PASS
		2437	8.040	2433.000	2441.040	0.5	PASS
		2462	8.040	2458.000	2466.040	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.760	2403.120	2420.880	0.5	PASS
		2437	17.680	2428.200	2445.880	0.5	PASS
		2462	17.720	2453.160	2470.880	0.5	PASS

Both ports tested, only the worst-case reported.

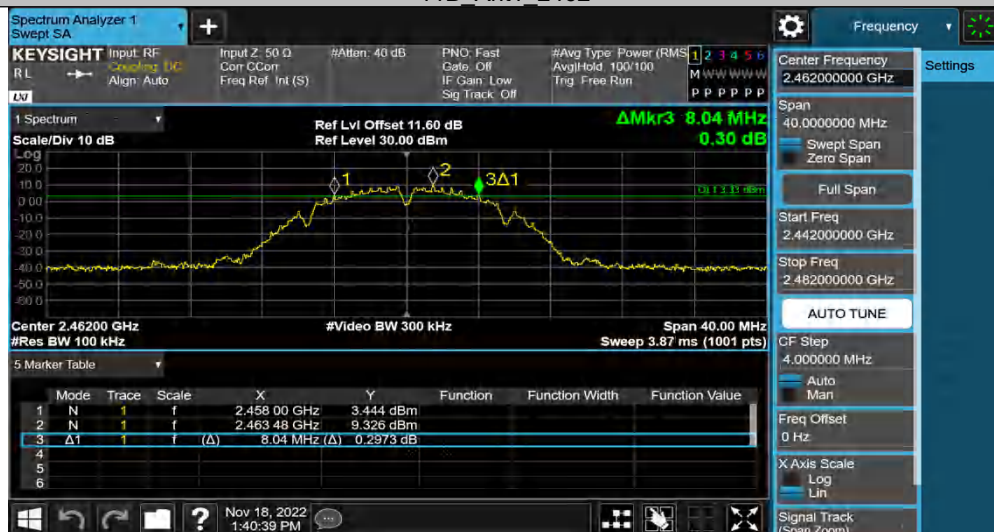
11B_Ant1_2412



11B_Ant1_2437



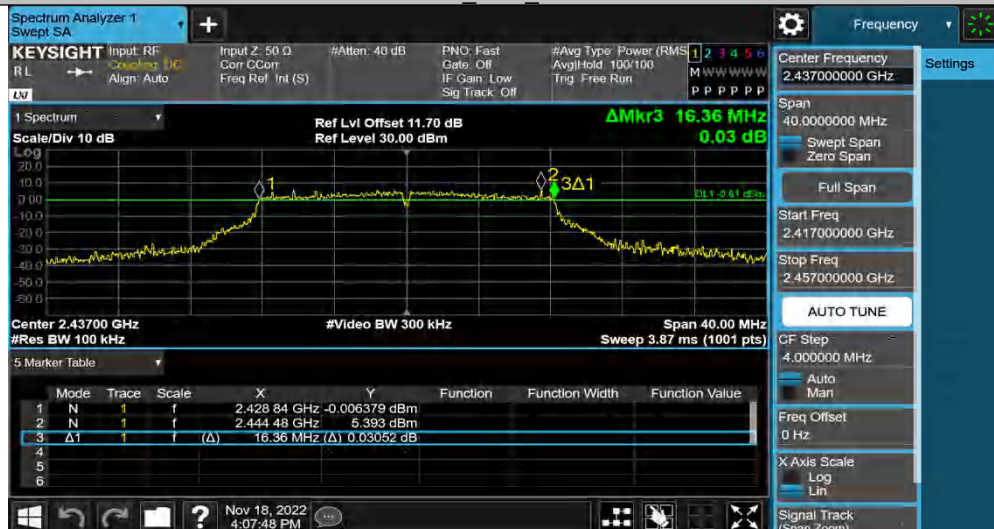
11B_Ant1_2462



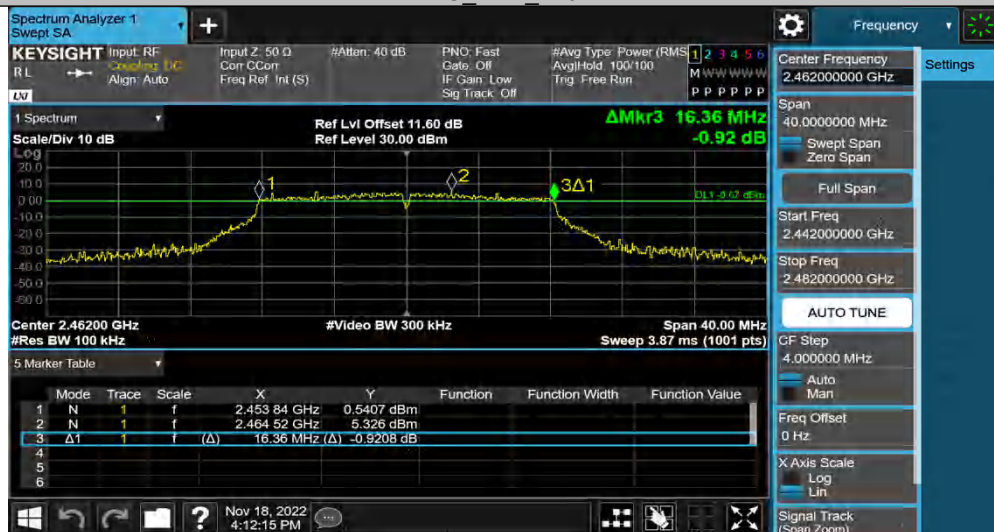
11G_Ant1_2412



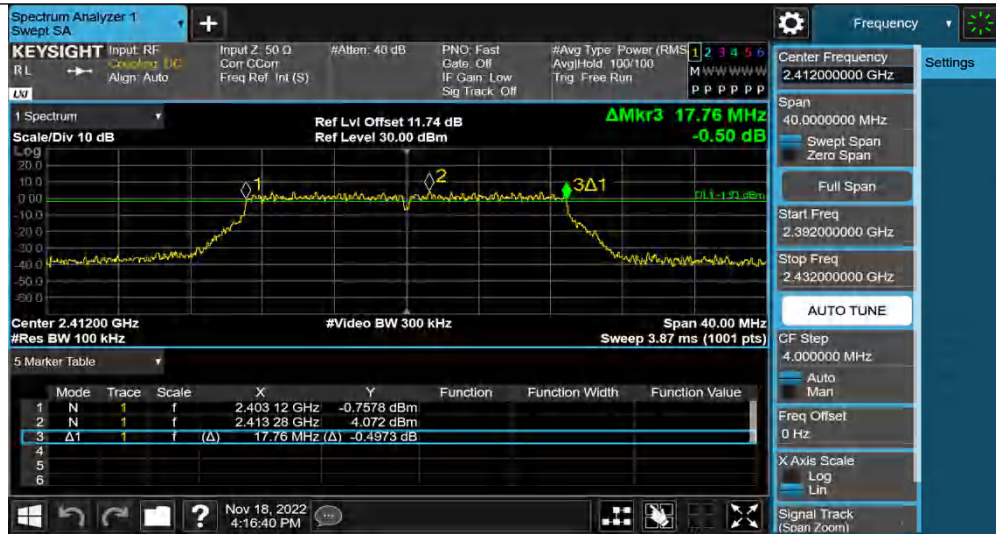
11G_Ant1_2437



11G_Ant1_2462



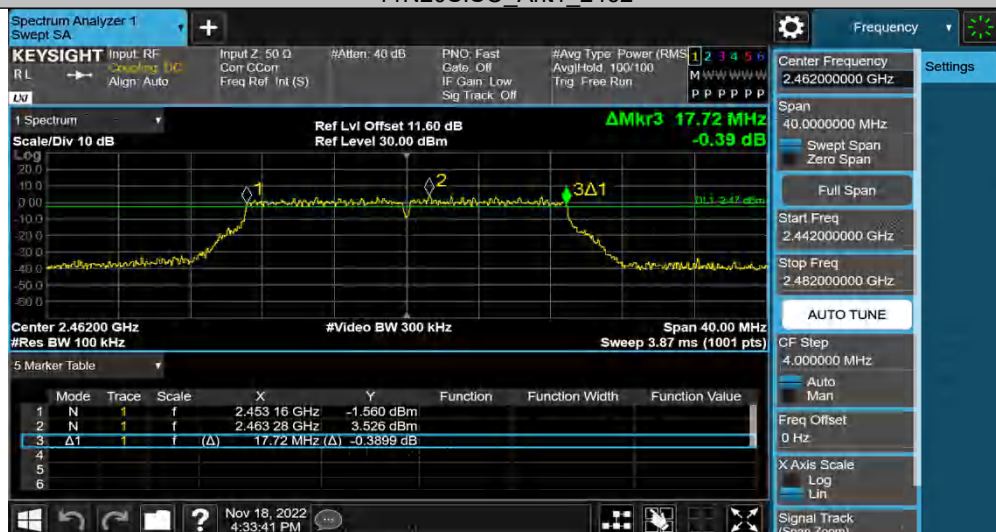
11N20SISO_Ant1_2412



11N20SISO Ant1 2437



11N20SISO Ant1 2462

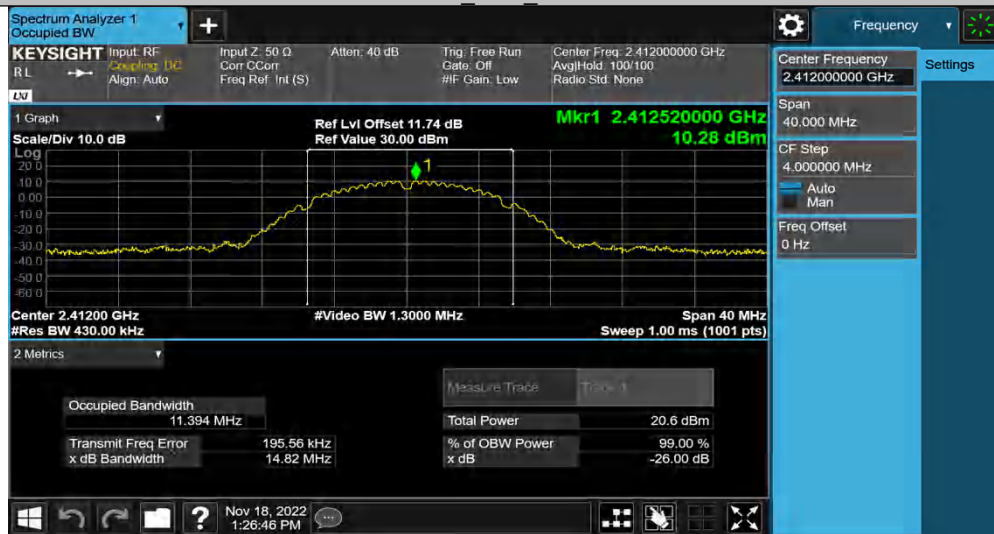


Appendix A.3: Test Results of 99% Bandwidth

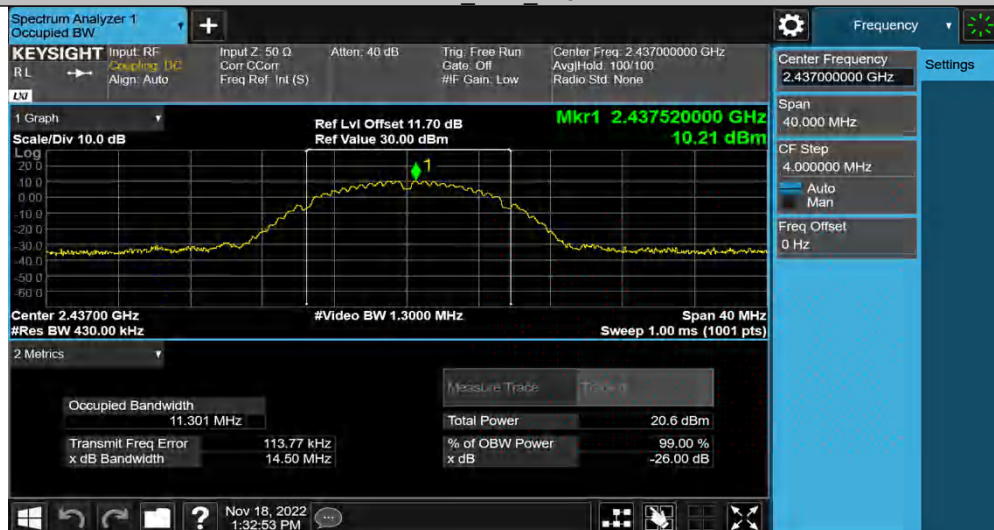
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.394	2406.4986	2417.8926	---	---
		2437	11.301	2431.4633	2442.7643	---	---
		2462	11.289	2456.5075	2467.7965	---	---
11G	Ant1	2412	17.284	2403.4949	2420.7789	---	---
		2437	17.246	2428.4667	2445.7127	---	---
		2462	17.261	2453.4259	2470.6869	---	---
11N20SISO	Ant1	2412	18.177	2402.9782	2421.1552	---	---
		2437	18.140	2427.9703	2446.1103	---	---
		2462	18.193	2452.9483	2471.1413	---	---

Both ports tested, only the worst-case reported.

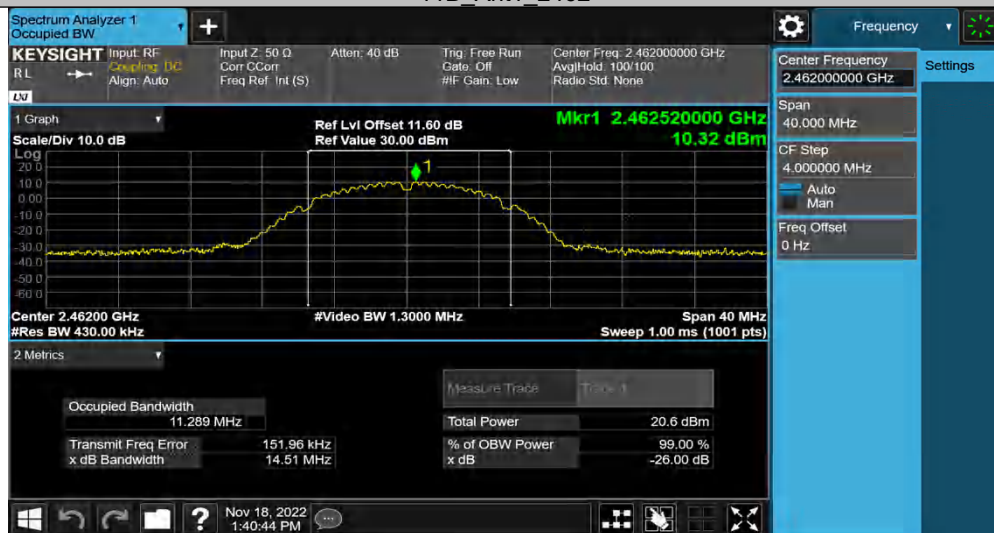
11B_Ant1_2412



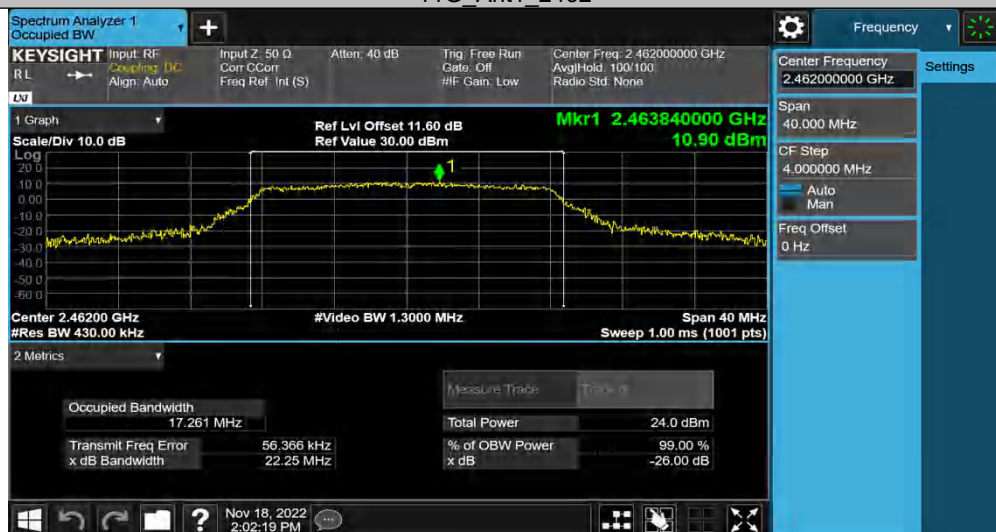
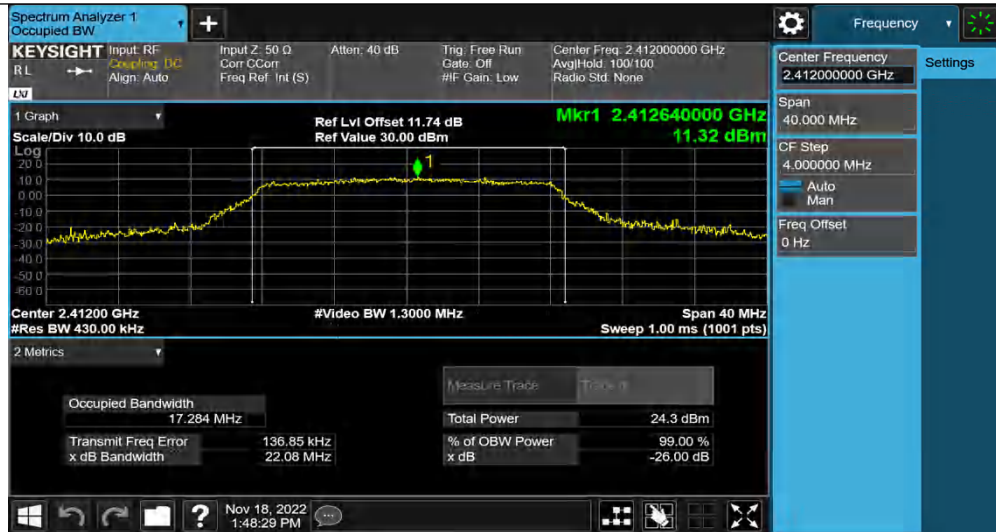
11B_Ant1_2437

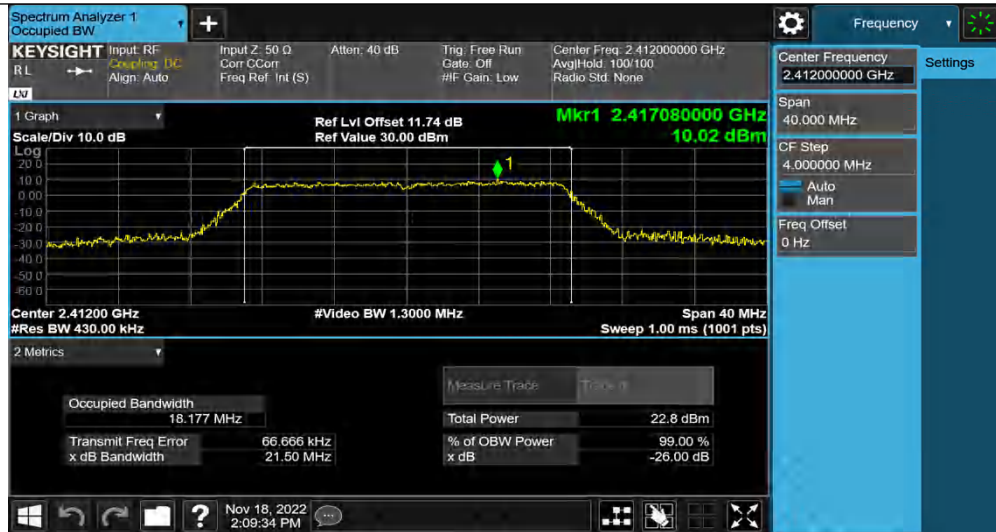


11B_Ant1_2462



11G_Ant1_2412





11N20SISO Ant1_2437



11N20SISO Ant1_2462



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

Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	9.80	9.80	---	PASS
			30~1000	9.80	-47.85	≤-10.2	PASS
			1000~26500	9.80	-39.16	≤-10.2	PASS
		2437	Reference	8.55	8.55	---	PASS
			30~1000	8.55	-48.45	≤-11.45	PASS
			1000~26500	8.55	-38.55	≤-11.45	PASS
		2462	Reference	8.68	8.68	---	PASS
			30~1000	8.68	-48.4	≤-11.32	PASS
			1000~26500	8.68	-39.18	≤-11.32	PASS
11G	Ant1	2412	Reference	5.61	5.61	---	PASS
			30~1000	5.61	-48.07	≤-14.39	PASS
			1000~26500	5.61	-39.38	≤-14.39	PASS
		2437	Reference	4.84	4.84	---	PASS
			30~1000	4.84	-48.27	≤-15.16	PASS
			1000~26500	4.84	-39.74	≤-15.16	PASS
		2462	Reference	4.83	4.83	---	PASS
			30~1000	4.83	-48.56	≤-15.17	PASS
			1000~26500	4.83	-38.88	≤-15.17	PASS
11N20SISO	Ant1	2412	Reference	4.52	4.52	---	PASS
			30~1000	4.52	-48.15	≤-15.48	PASS
			1000~26500	4.52	-38.91	≤-15.48	PASS
		2437	Reference	3.75	3.75	---	PASS
			30~1000	3.75	-47.8	≤-16.25	PASS
			1000~26500	3.75	-38.75	≤-16.25	PASS
		2462	Reference	3.50	3.50	---	PASS
			30~1000	3.50	-48.96	≤-16.5	PASS
			1000~26500	3.50	-38.29	≤-16.5	PASS

Both ports tested, only the worst-case reported.

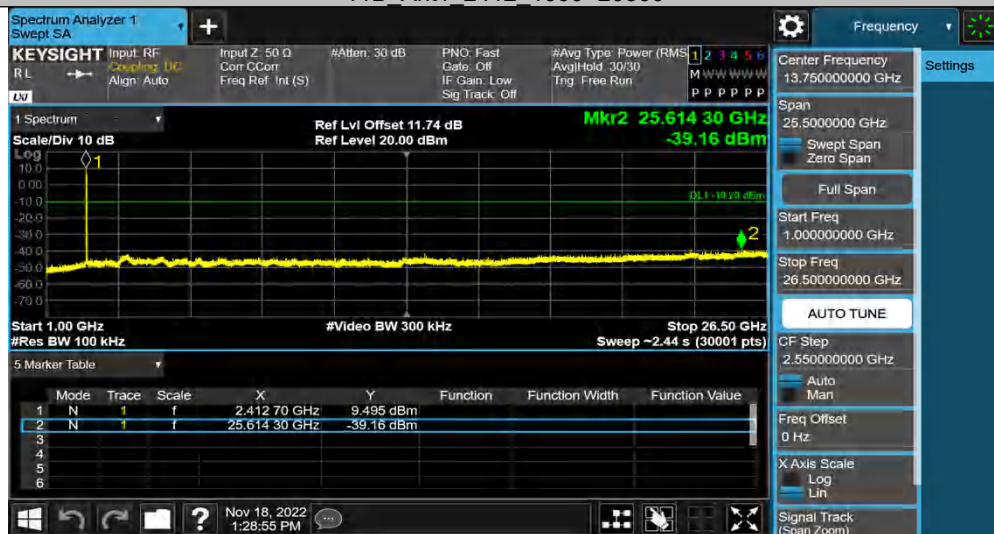
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



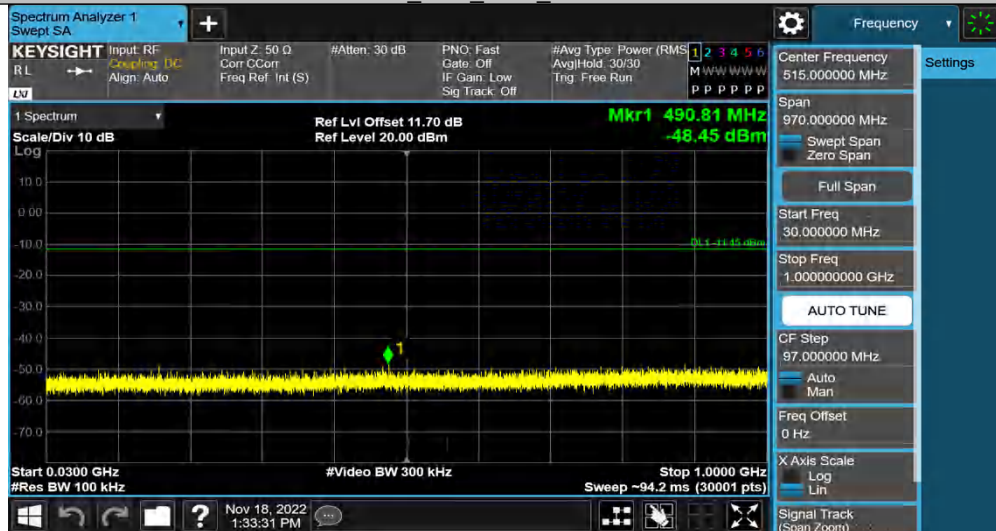
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



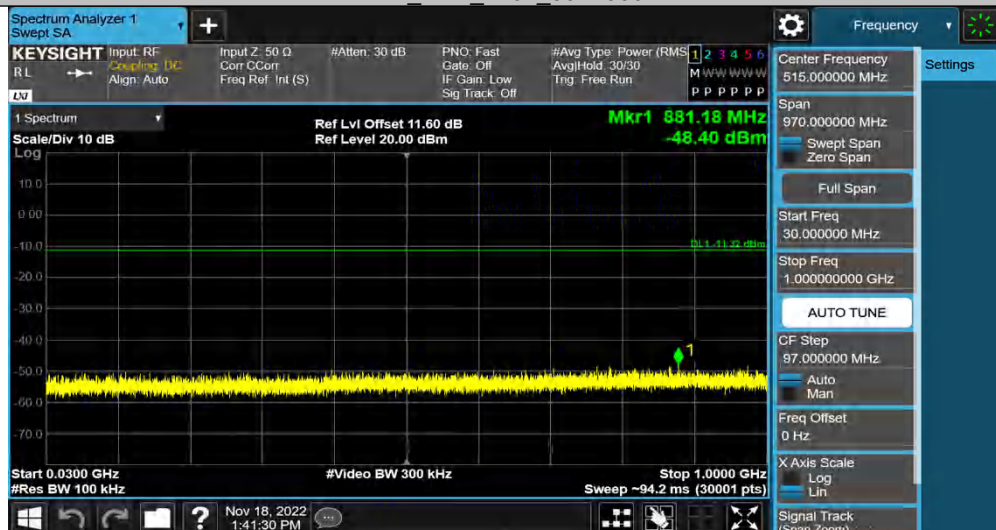
11B_Ant1_2437_1000~26500



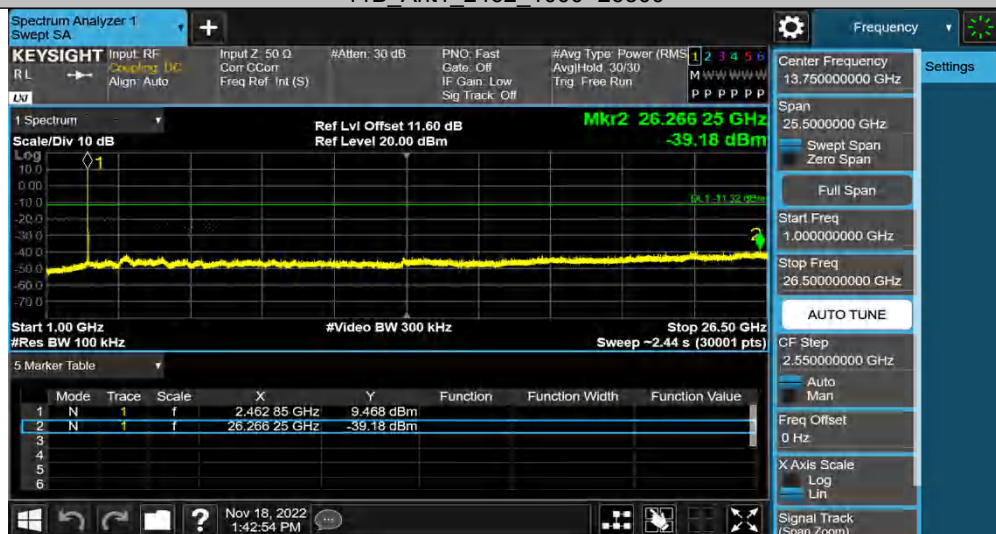
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



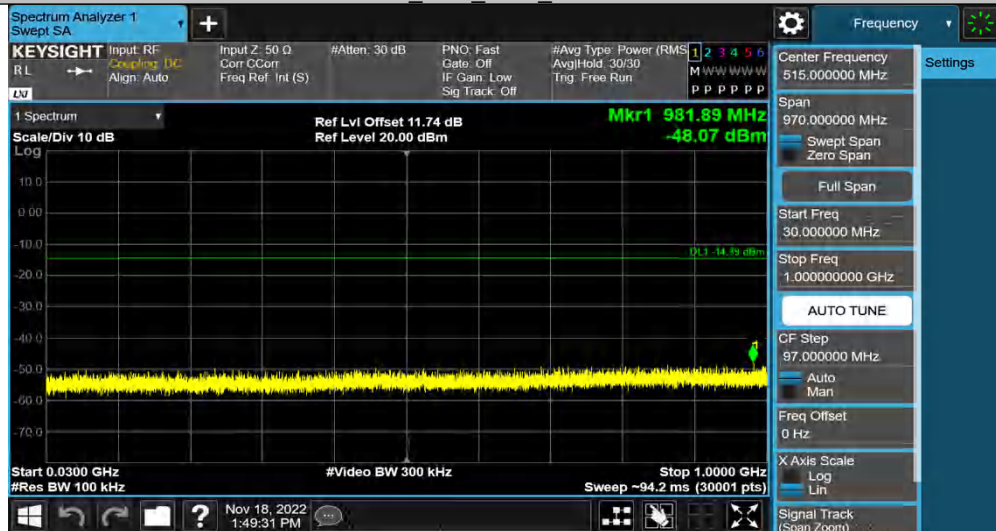
11B_Ant1_2462_1000~26500



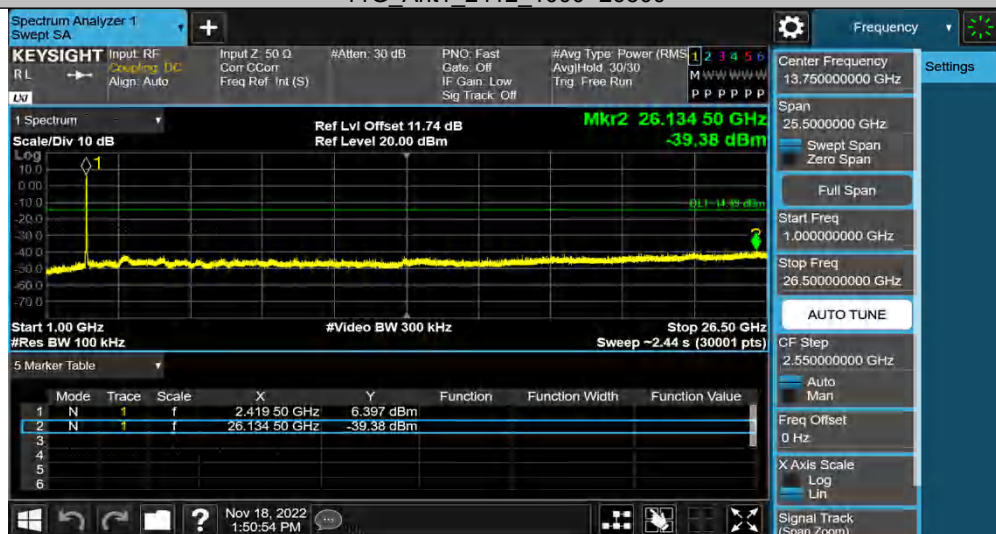
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



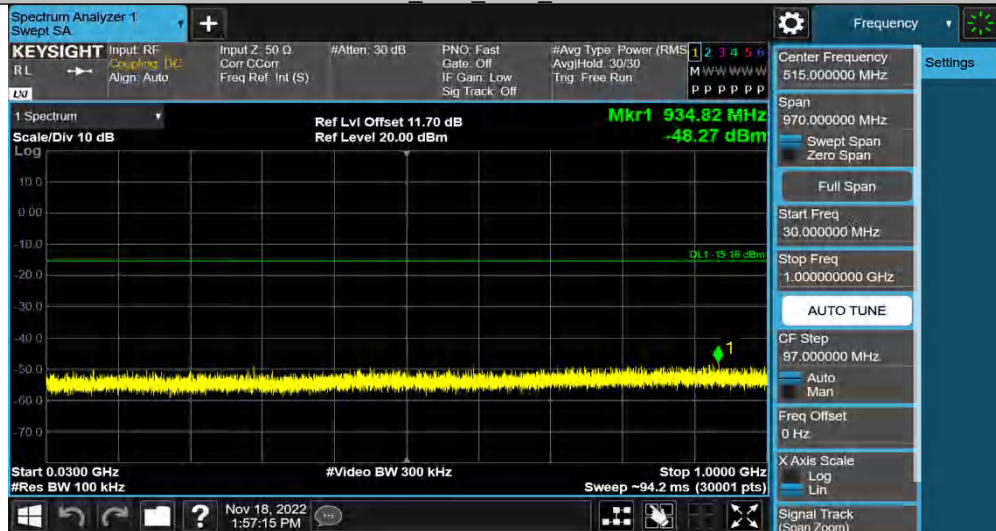
11G_Ant1_2412_1000~26500



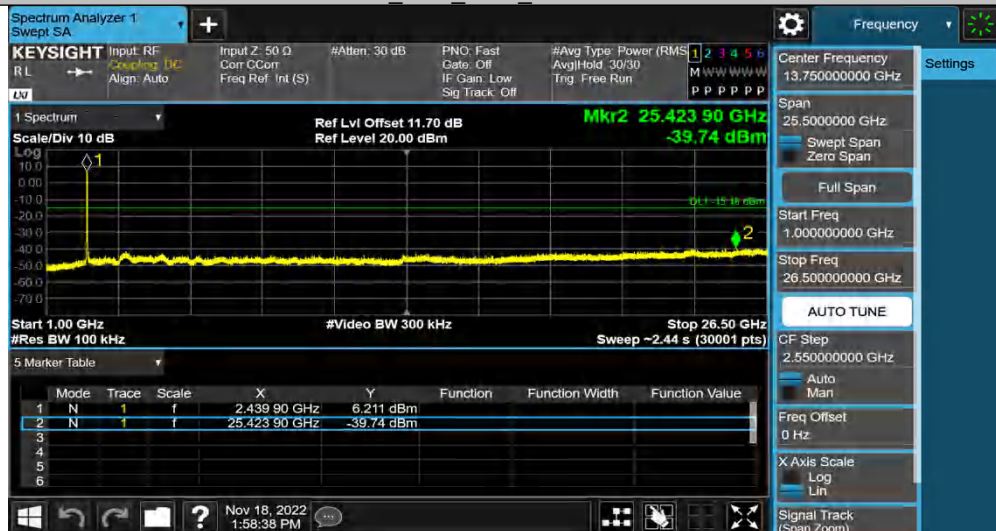
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



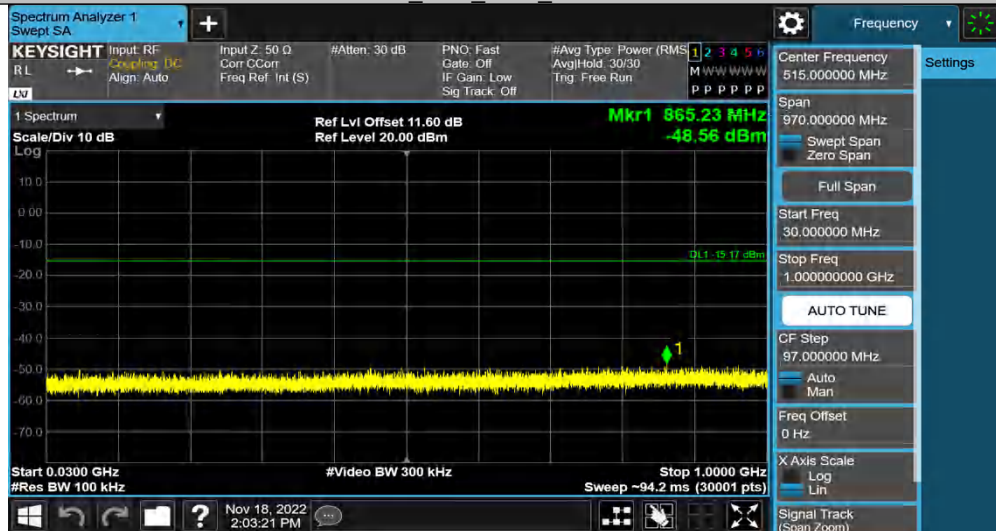
11G_Ant1_2437_1000~26500



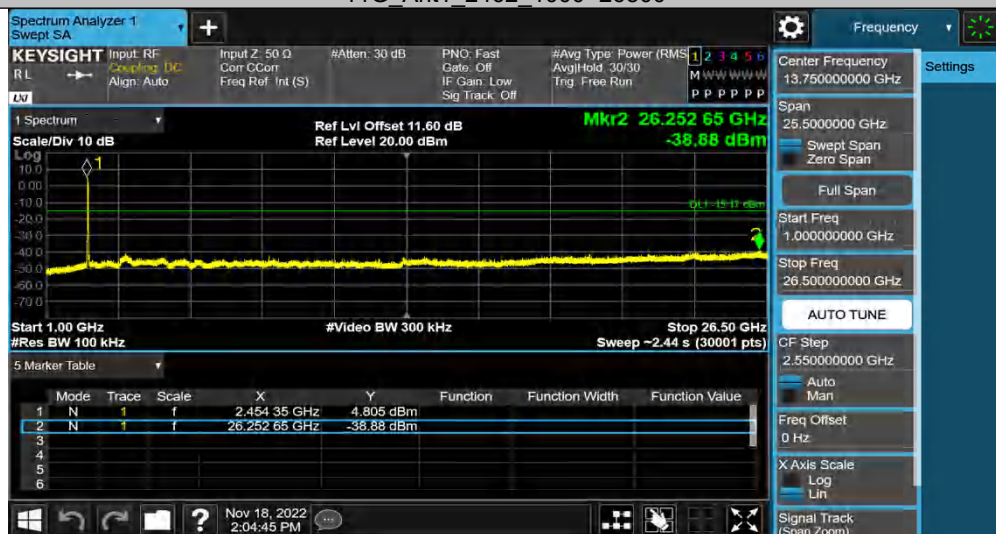
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



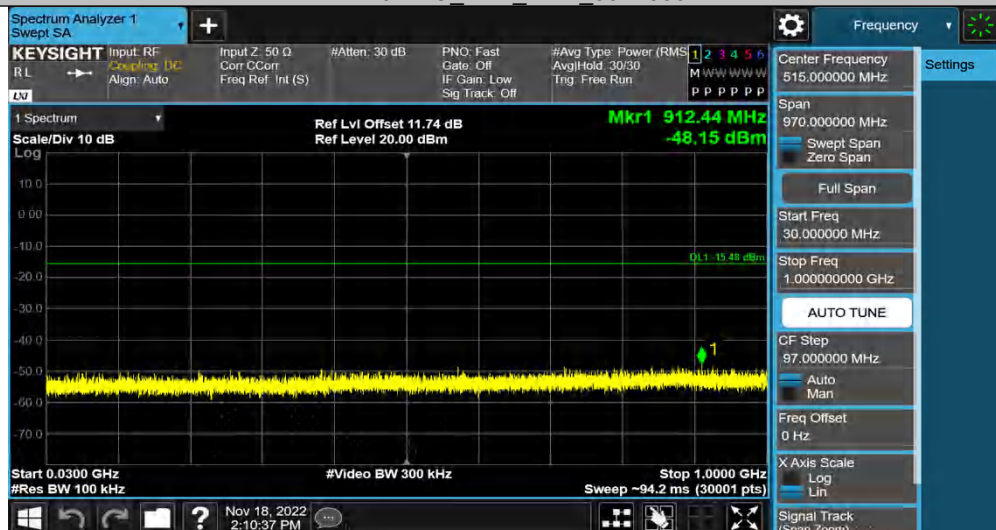
11G_Ant1_2462_1000~26500



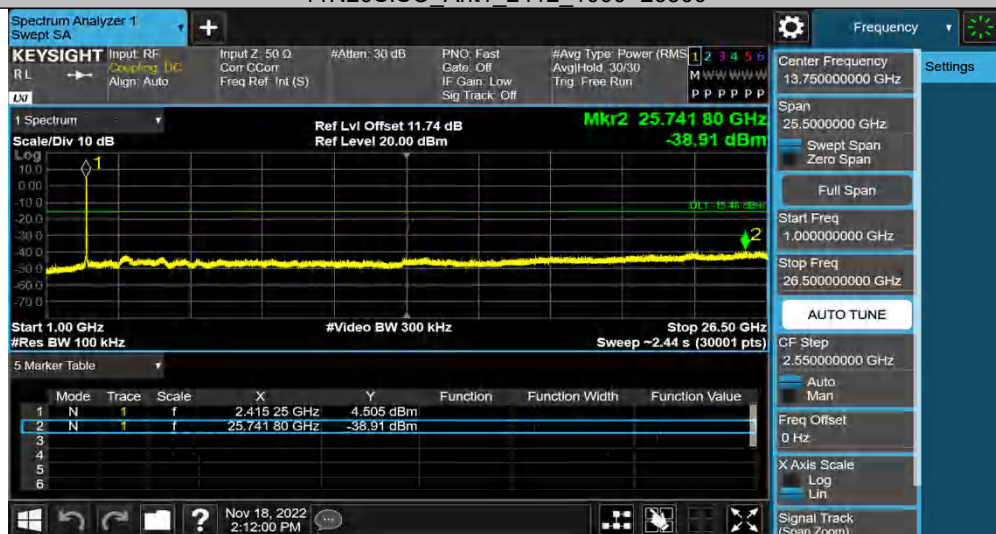
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



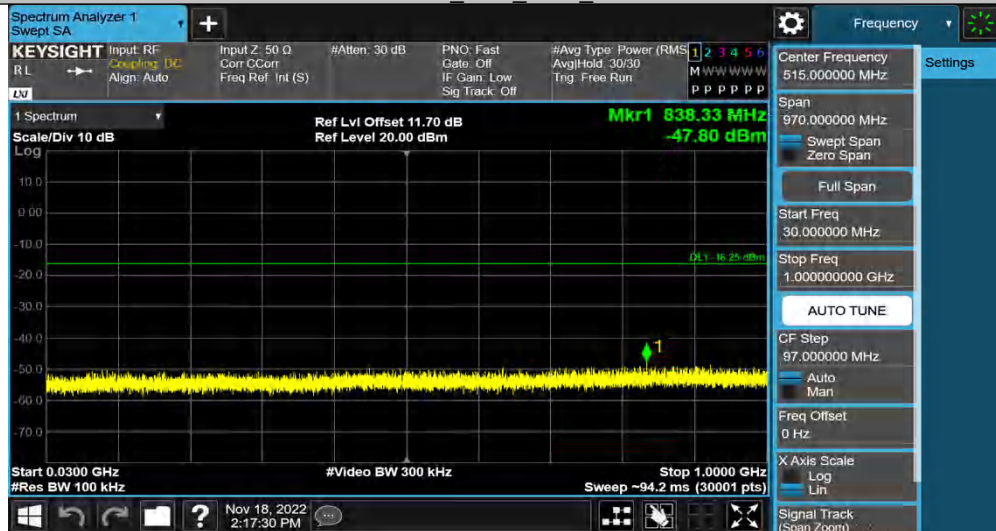
11N20SISO_Ant1_2412_1000~26500



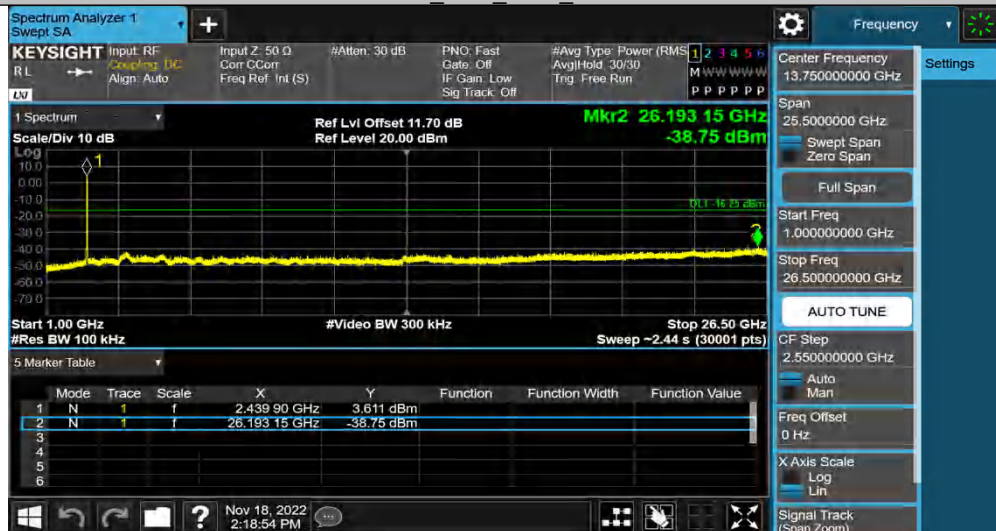
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



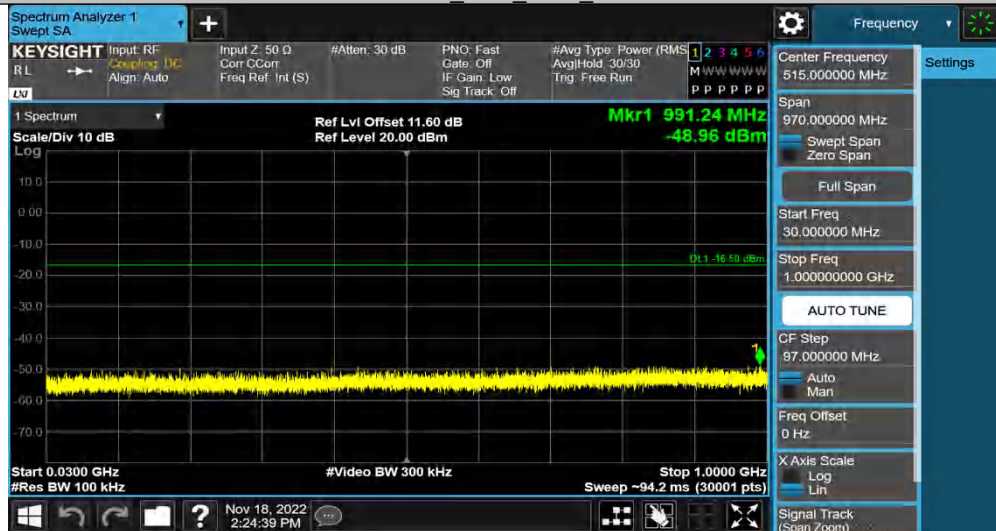
11N20SISO_Ant1_2437_1000~26500



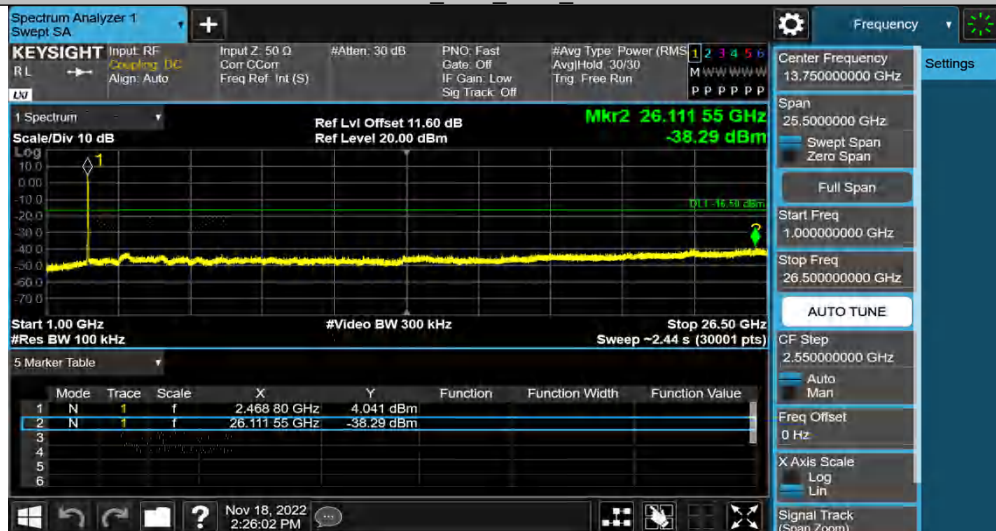
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.97	-36.34	≤-10.03	PASS
		High	2462	10.00	-45.82	≤-10	PASS
11G	Ant1	Low	2412	6.29	-26.5	≤-13.71	PASS
		High	2462	5.57	-33.41	≤-14.43	PASS
11N20SISO	Ant1	Low	2412	4.51	-28.75	≤-15.49	PASS
		High	2462	3.64	-39.09	≤-16.36	PASS

11B Ant1 Low 2412



11B Ant1 High 2462



11G Ant1 Low 2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



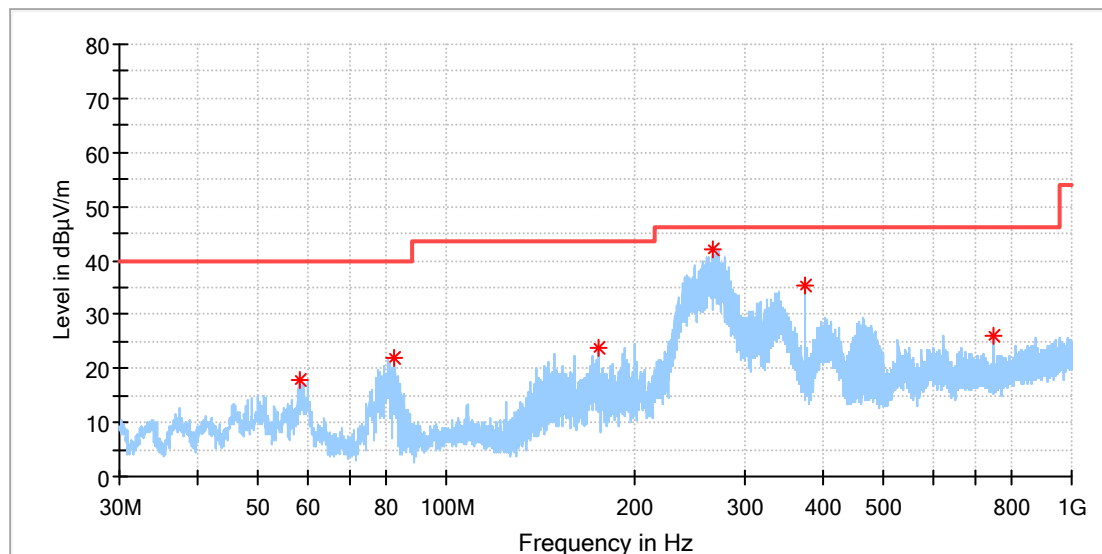
Appendix A.5: Test Results of Radiated Spurious Emissions

Note: 1. Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported. 2. This testing was carried out on different modulations, but only the worst case was presented in this report.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

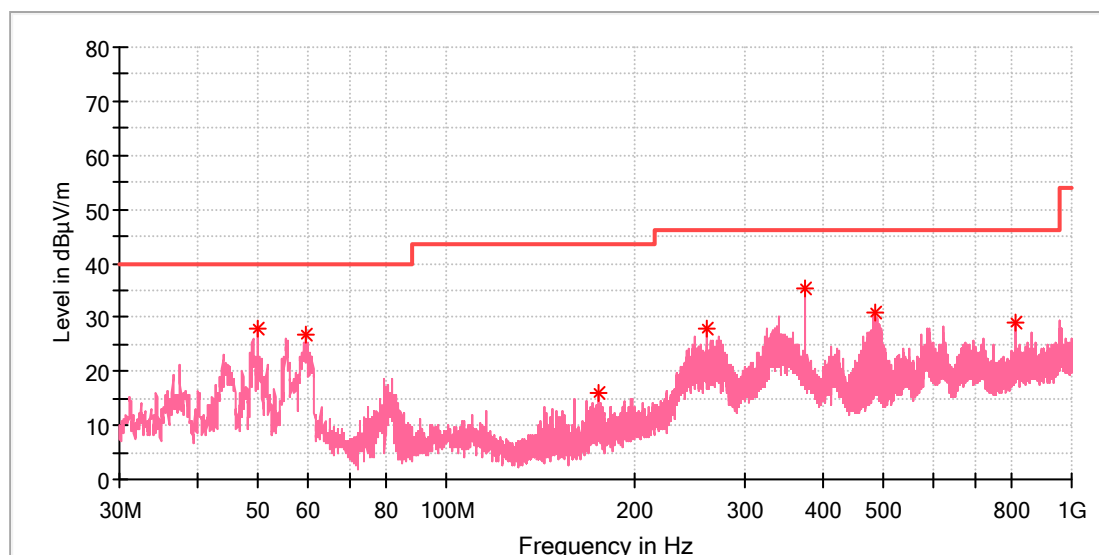
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.130000	17.74	40.00	22.26	100.0	H	229.0	-19.1
82.715769	22.12	40.00	17.88	100.0	H	164.0	-23.2
175.015000	23.95	43.50	19.55	100.0	H	212.0	-21.3
267.650000	41.88	46.00	4.12	100.0	H	12.0	-17.3
375.058846	35.26	46.00	10.74	100.0	H	348.0	-14.7
750.038462	26.10	46.00	19.90	100.0	H	229.0	-7.6

Final_Result

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

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.996923	28.02	40.00	11.98	100.0	V	76.0	-18.6
59.510385	26.69	40.00	13.31	100.0	V	252.0	-19.2
174.977692	15.89	43.50	27.61	100.0	V	183.0	-21.3
260.822692	28.04	46.00	17.96	100.0	V	67.0	-17.4
375.021539	35.25	46.00	10.75	100.0	V	12.0	-14.7
485.601539	30.89	46.00	15.11	100.0	V	21.0	-12.4
816.035769	29.20	46.00	16.80	100.0	V	294.0	-6.4

Final_Result

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

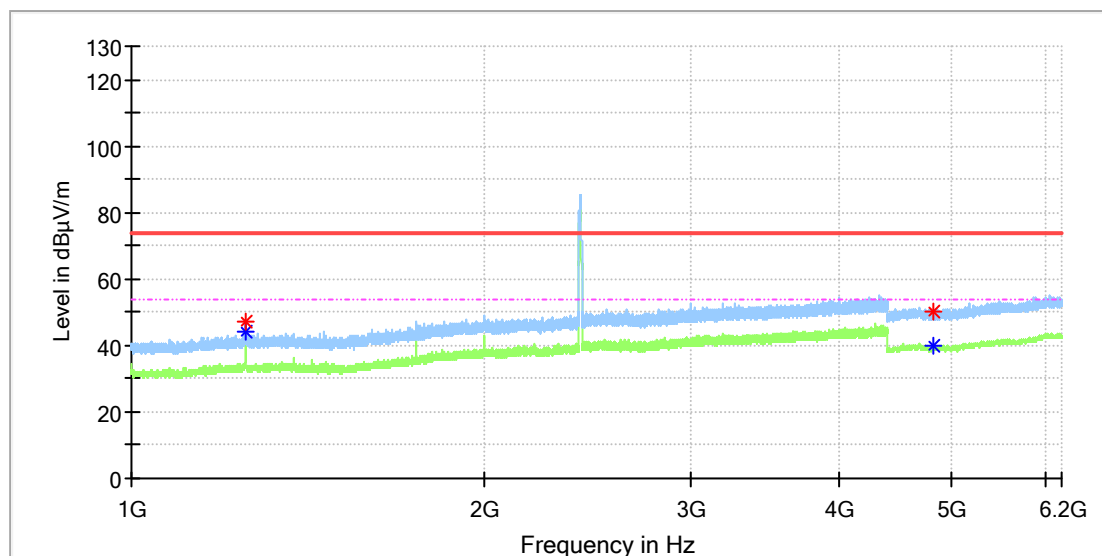
Above 1GHz

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

There are only floor-noises in above 18GHz emissions, thus no record for above 18GHz.

EUT Information

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

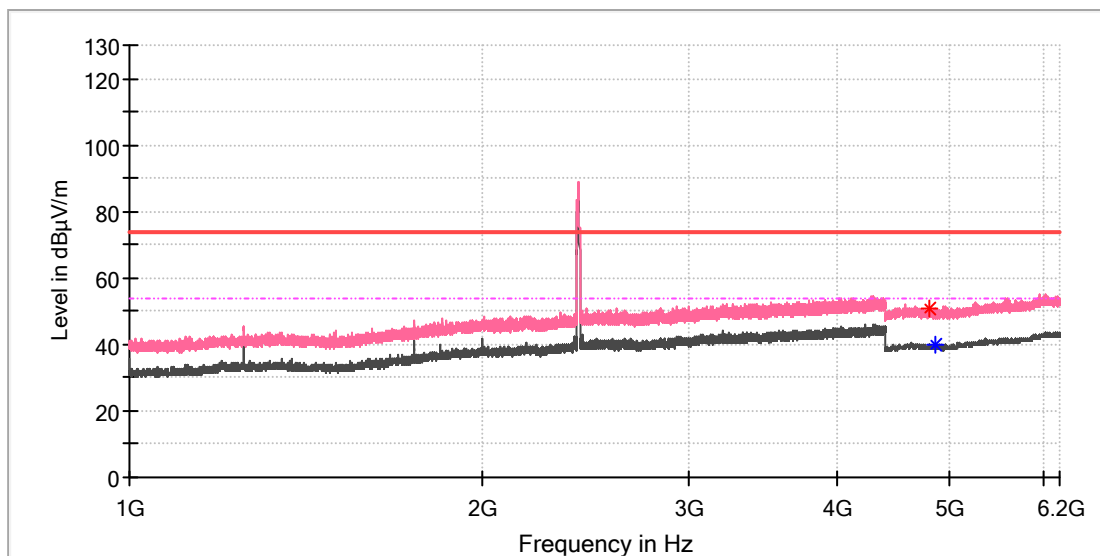
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.900000	47.35	---	74.00	26.65	100.0	H	235.0	1.9
1249.900000	---	43.99	54.00	10.01	100.0	H	235.0	1.9
4812.000000	---	39.61	54.00	14.39	100.0	H	15.0	11.8
4817.500000	50.32	---	74.00	23.68	100.0	H	302.0	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: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch1
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

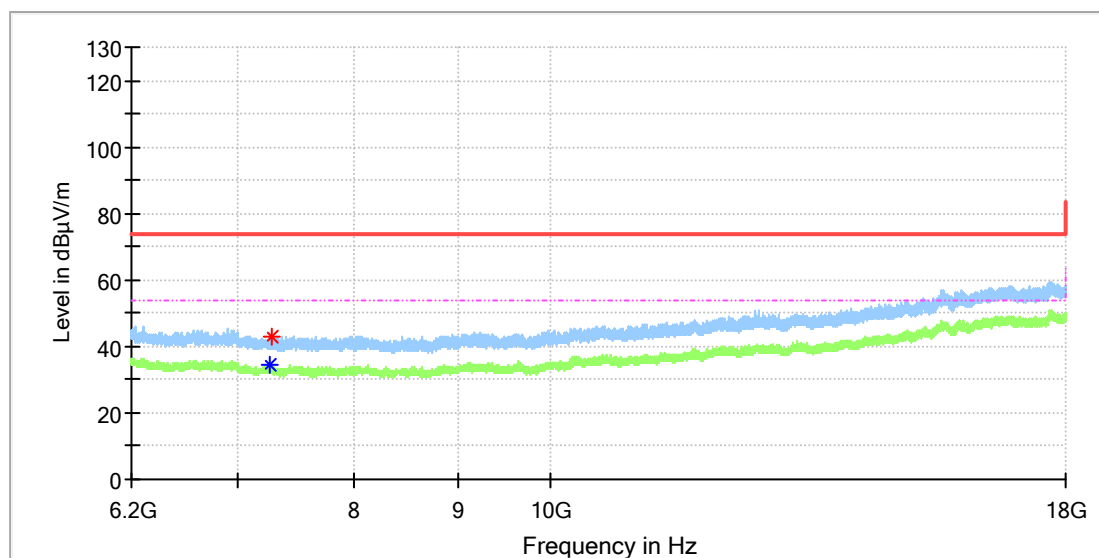
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4808.500000	50.86	---	74.00	23.14	100.0	V	177.0	11.8
4850.000000	---	40.04	54.00	13.96	100.0	V	132.0	11.8

Final_Result

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

EUT Information

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

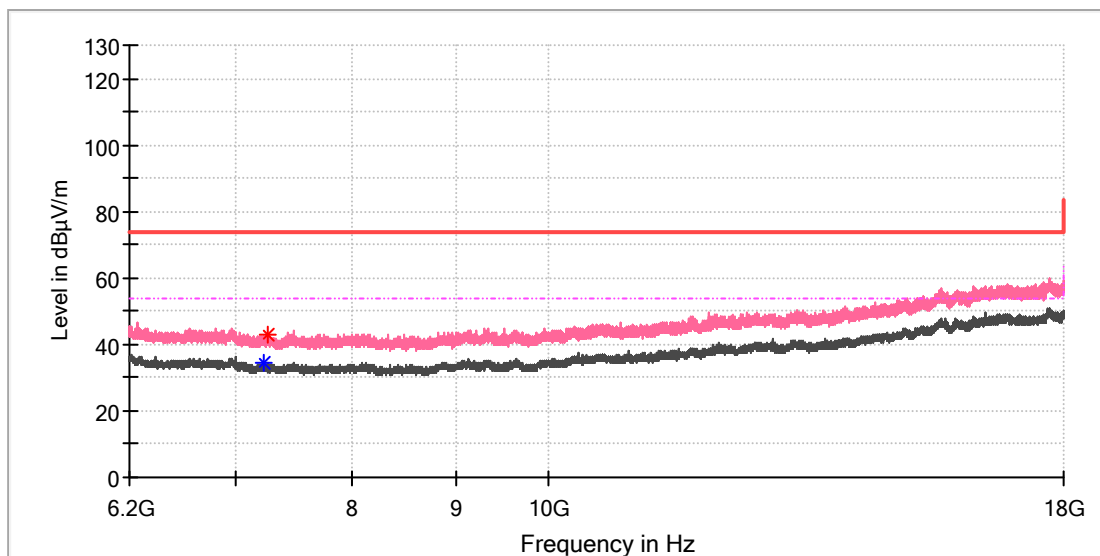
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7257.083333	---	34.33	54.00	19.67	100.0	H	42.0	8.5
7272.816667	43.05	---	74.00	30.95	100.0	H	206.0	8.4

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch1
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

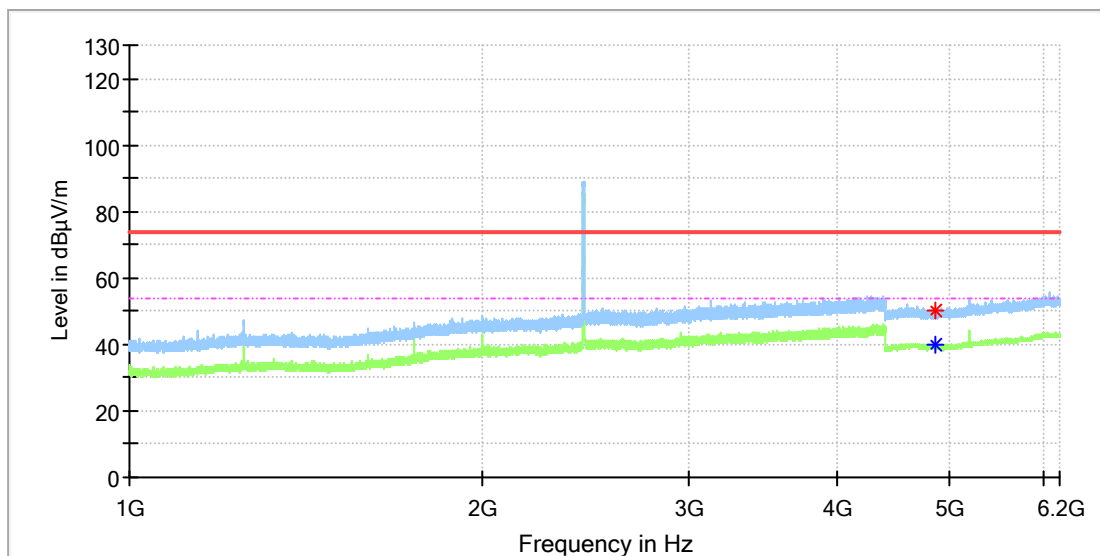
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7228.075000	---	34.21	54.00	19.79	100.0	V	185.0	8.7
7253.150000	42.88	---	74.00	31.12	100.0	V	149.0	8.5

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

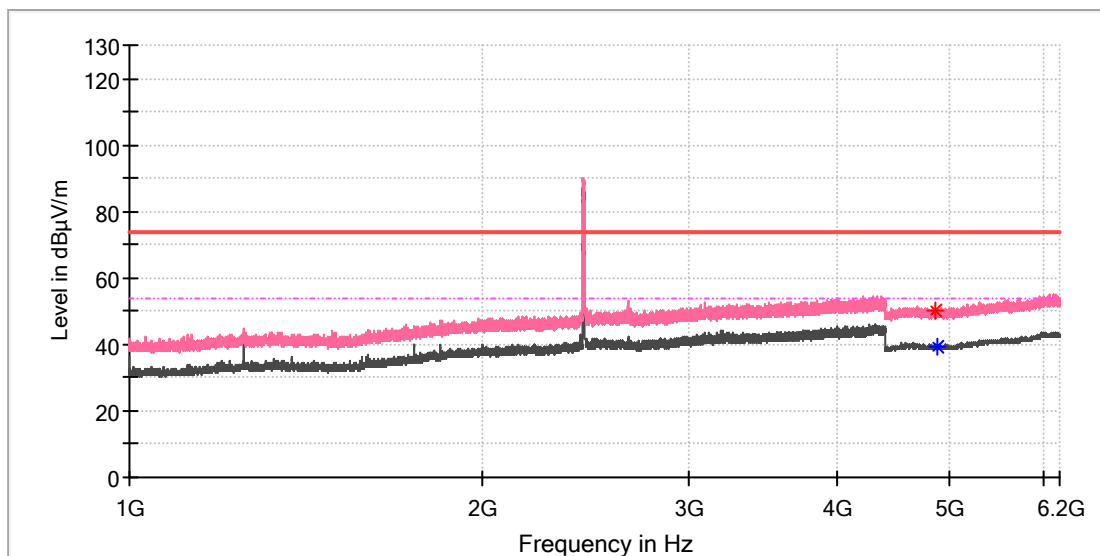
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4854.500000	50.29	---	74.00	23.71	100.0	H	28.0	11.8
4863.000000	---	39.66	54.00	14.34	100.0	H	35.0	11.8

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

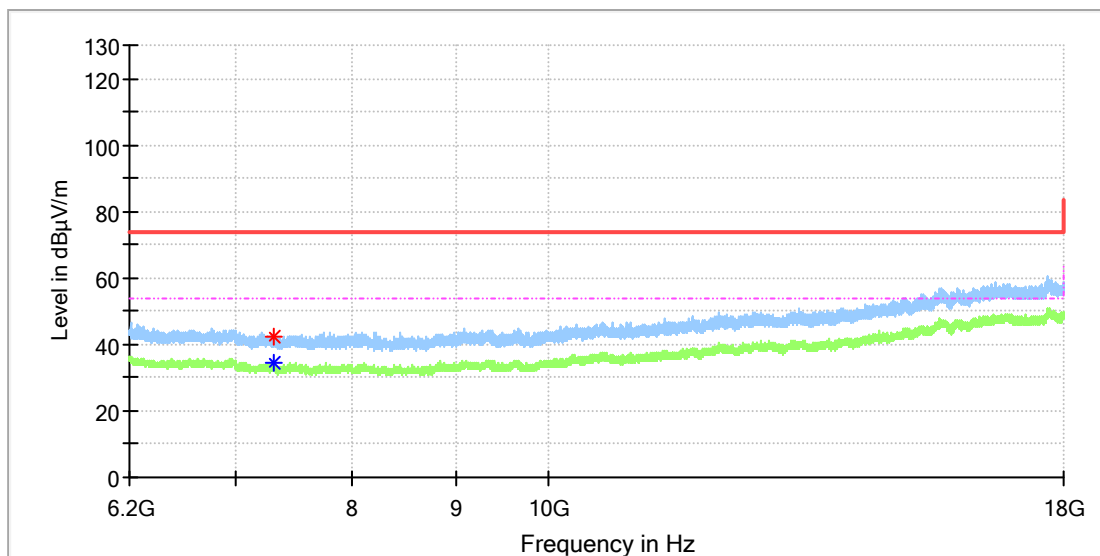
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4861.000000	50.47	---	74.00	23.53	100.0	V	249.0	11.8
4879.000000	---	39.54	54.00	14.46	100.0	V	177.0	11.8

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

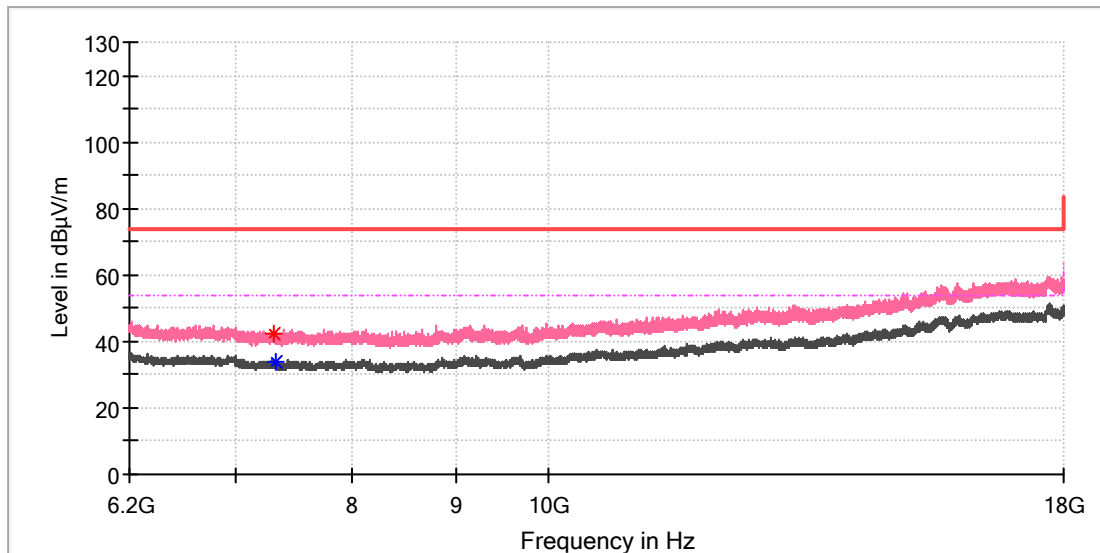
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7305.758333	---	34.41	54.00	19.59	100.0	H	285.0	8.3
7315.591667	42.03	---	74.00	31.97	100.0	H	245.0	8.2

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

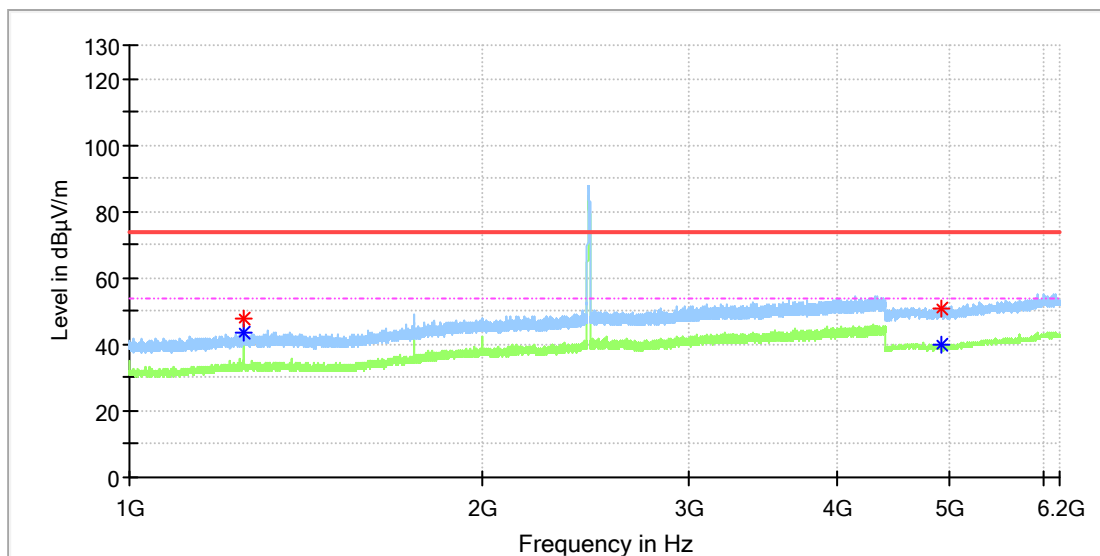
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.708333	42.55	---	74.00	31.45	100.0	V	97.0	8.2
7325.916667	---	33.90	54.00	20.10	100.0	V	203.0	8.2

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

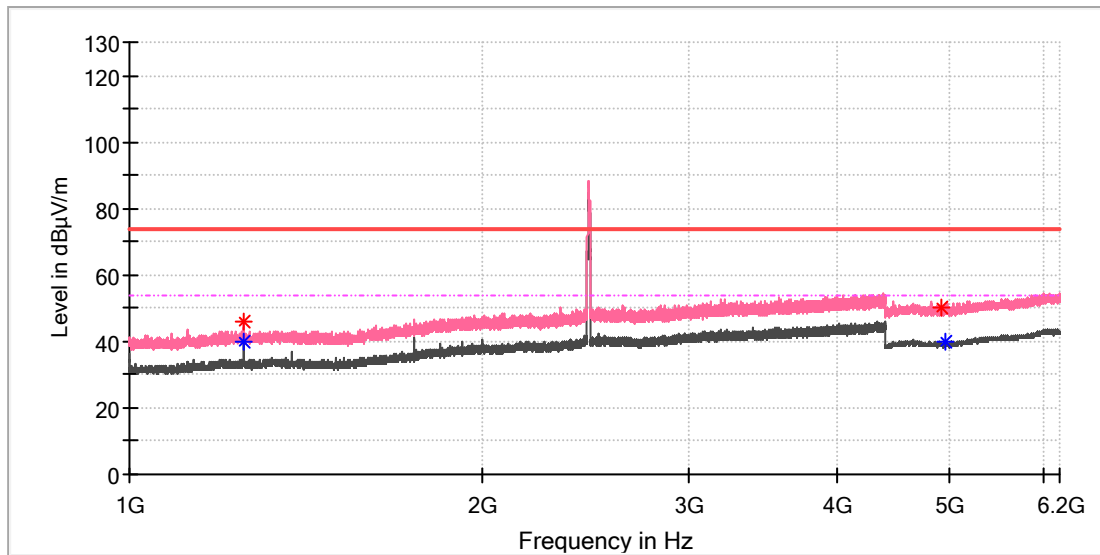
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.560000	47.84	---	74.00	26.16	100.0	H	239.0	1.9
1249.730000	---	43.71	54.00	10.29	100.0	H	239.0	1.9
4907.500000	51.04	---	74.00	22.96	100.0	H	110.0	11.8
4920.500000	---	39.82	54.00	14.19	100.0	H	210.0	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: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

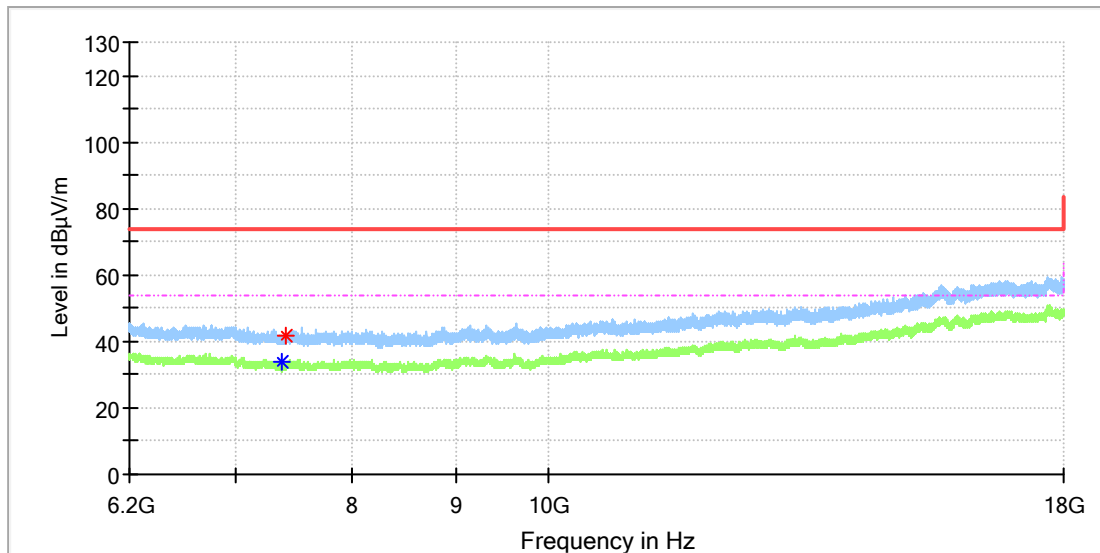
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.900000	---	40.20	54.00	13.80	100.0	V	299.0	1.9
1250.070000	45.66	---	74.00	28.34	100.0	V	53.0	1.9
4917.000000	50.45	---	74.00	23.55	100.0	V	359.0	11.8
4949.500000	---	39.73	54.00	14.27	100.0	V	304.0	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: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

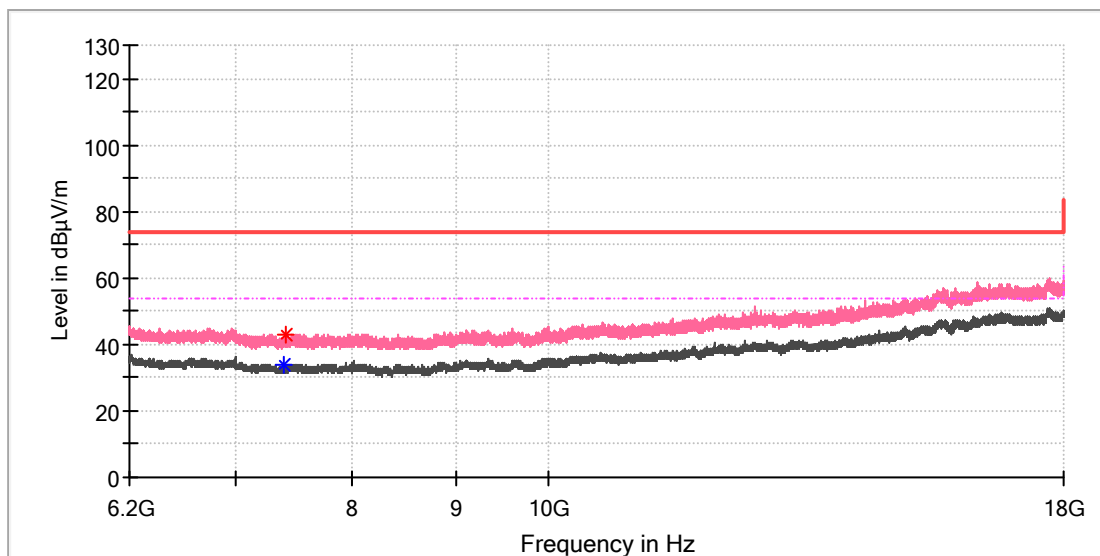
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7380.983333	---	33.65	54.00	20.35	100.0	H	84.0	8.2
7407.533333	42.02	---	74.00	31.98	100.0	H	173.0	8.3

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

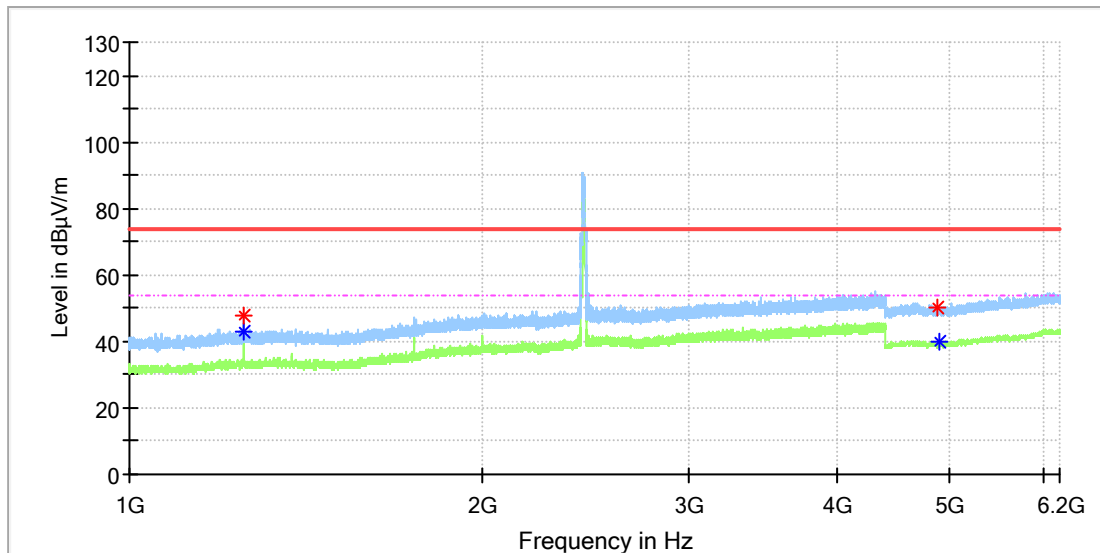
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7391.800000	---	34.13	54.00	19.87	100.0	V	107.0	8.3
7408.516667	43.22	---	74.00	30.78	100.0	V	287.0	8.3

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

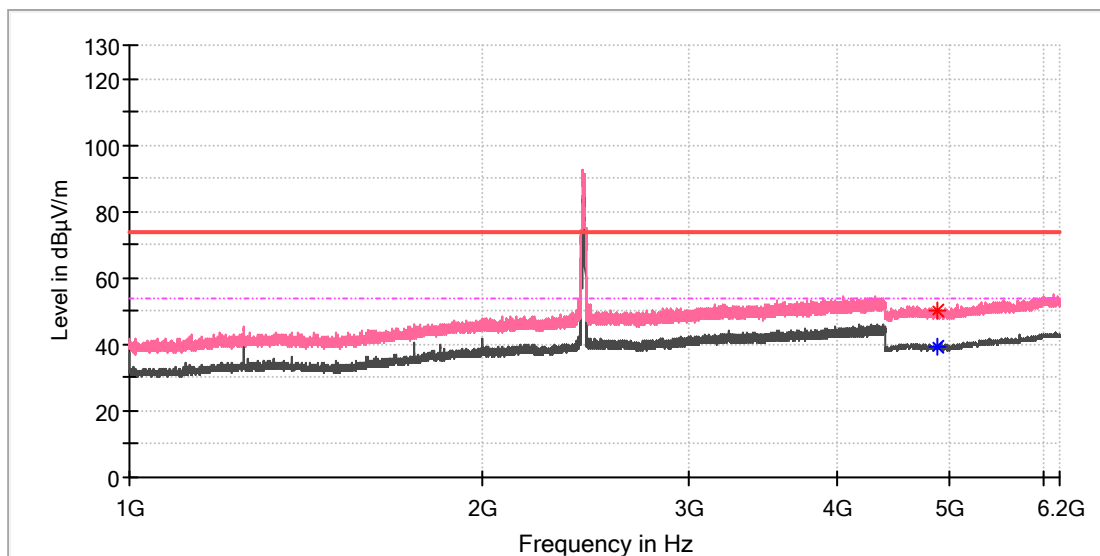
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1250.070000	47.55	---	74.00	26.45	100.0	H	247.0	1.9
1250.240000	---	43.17	54.00	10.83	100.0	H	235.0	1.9
4873.500000	50.23	---	74.00	23.77	100.0	H	319.0	11.8
4894.000000	---	39.61	54.00	14.39	100.0	H	345.0	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:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	WIFI 2.4G_11g_Ch6
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

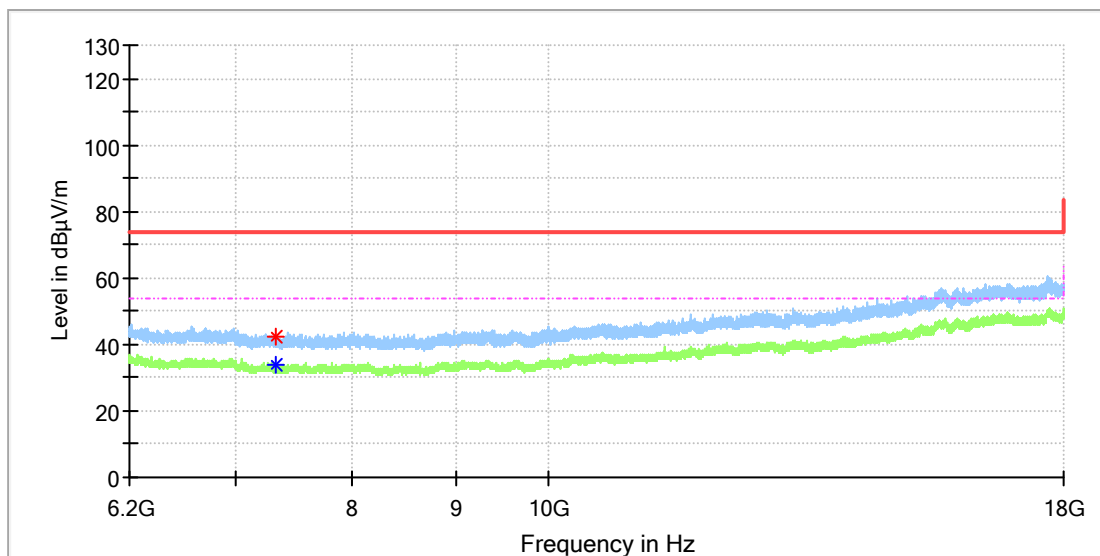
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.000000	---	39.58	54.00	14.42	100.0	V	122.0	11.8
4869.500000	50.36	---	74.00	23.64	100.0	V	324.0	11.8

Final_Result

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

EUT Information

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	WIFI 2.4G_11g_Ch6
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

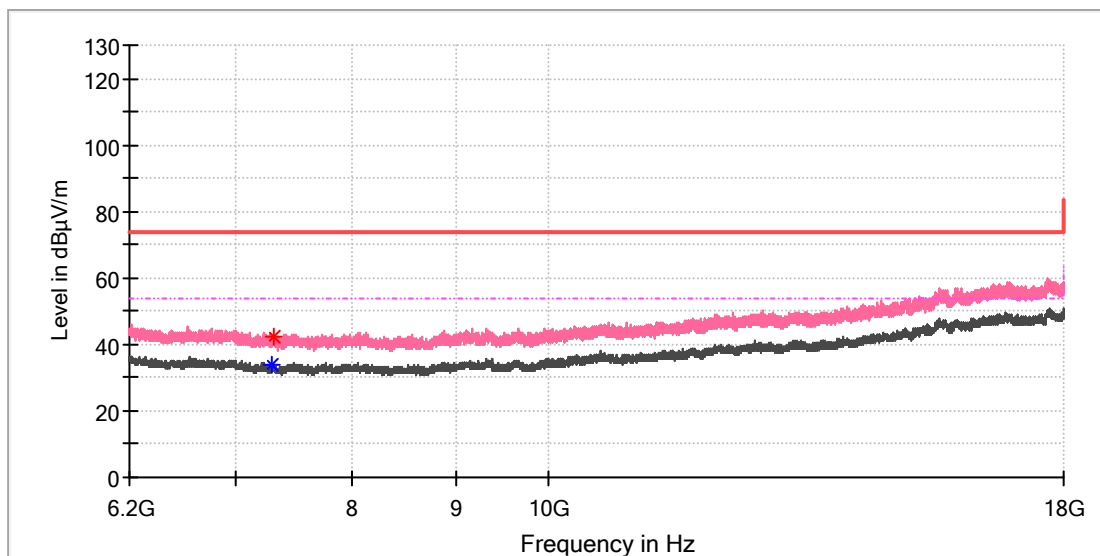
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7321.491667	---	34.03	54.00	19.97	100.0	H	125.0	8.2
7328.375000	42.17	---	74.00	31.83	100.0	H	150.0	8.1

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

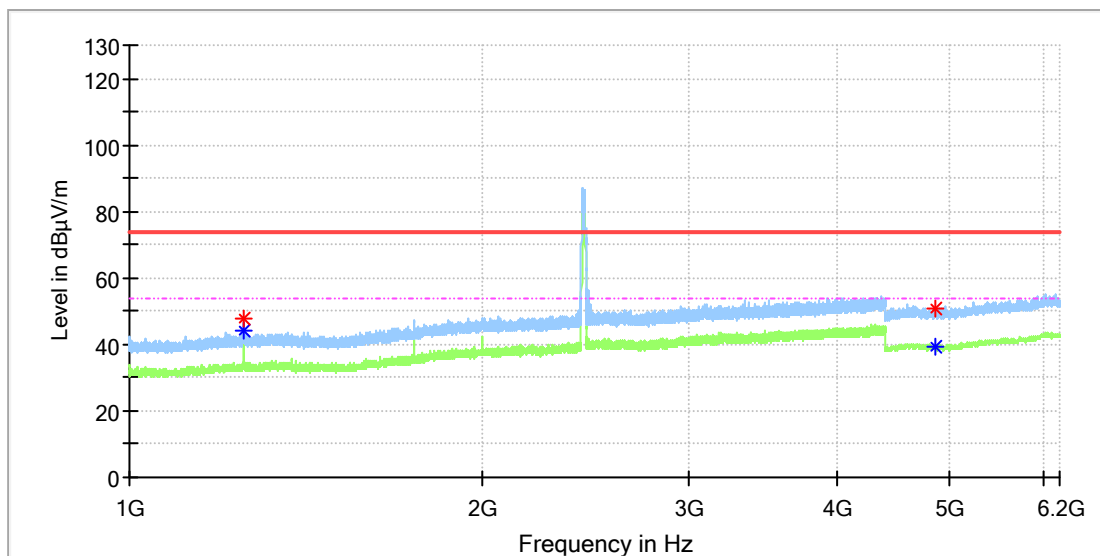
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7291.991667	---	33.71	54.00	20.30	100.0	V	148.0	8.3
7308.216667	42.29	---	74.00	31.71	100.0	V	112.0	8.2

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

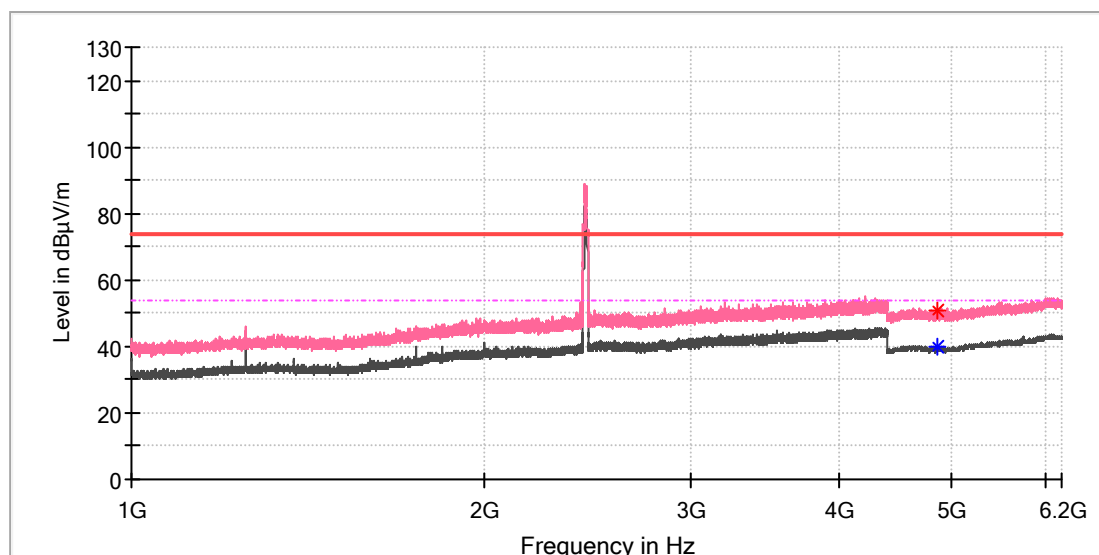
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.560000	47.82	---	74.00	26.18	100.0	H	245.0	1.9
1249.900000	---	44.14	54.00	9.86	100.0	H	235.0	1.9
4850.000000	50.98	---	74.00	23.02	100.0	H	294.0	11.8
4867.500000	---	39.51	54.00	14.49	100.0	H	125.0	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: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

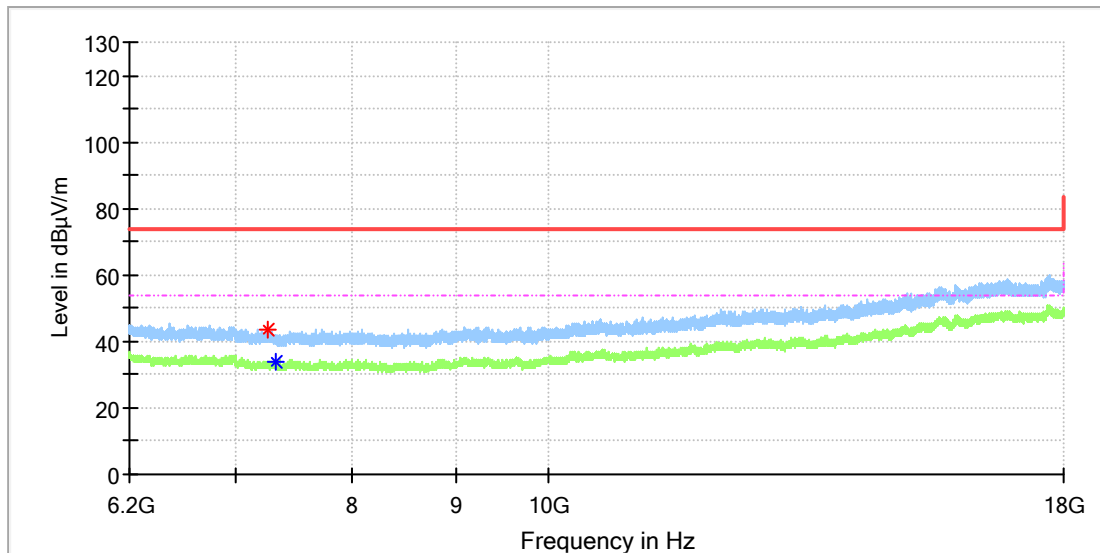
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4857.500000	50.79	---	74.00	23.21	100.0	V	313.0	11.8
4861.500000	---	39.68	54.00	14.32	100.0	V	350.0	11.8

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

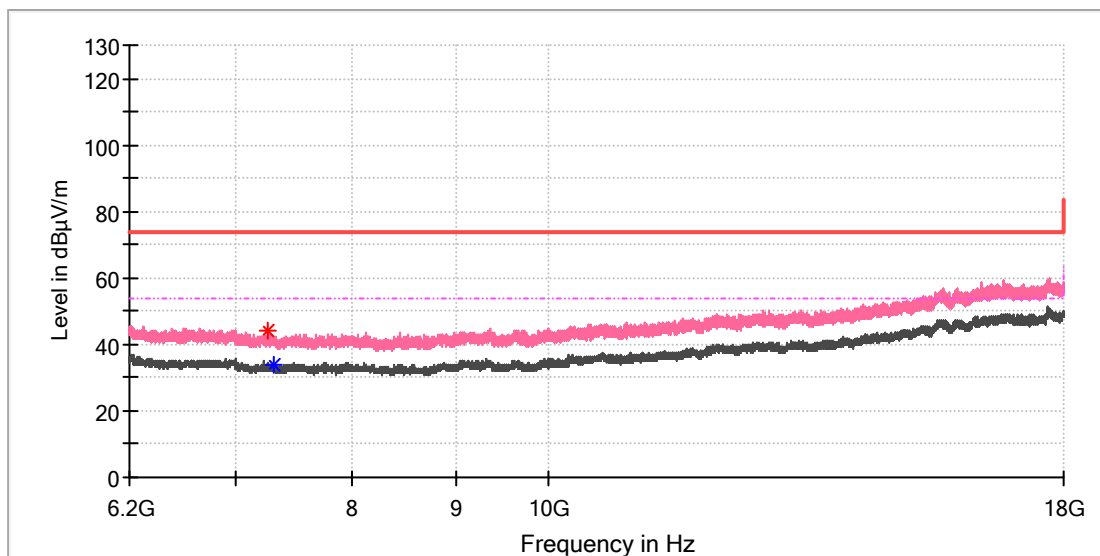
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7263.966667	43.56	---	74.00	30.44	100.0	H	220.0	8.5
7321.000000	---	33.78	54.00	20.22	100.0	H	109.0	8.2

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
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)
7255.608333	44.03	---	74.00	29.97	100.0	V	139.0	8.5
7306.741667	---	33.69	54.00	20.31	100.0	V	200.0	8.3

Final_Result

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

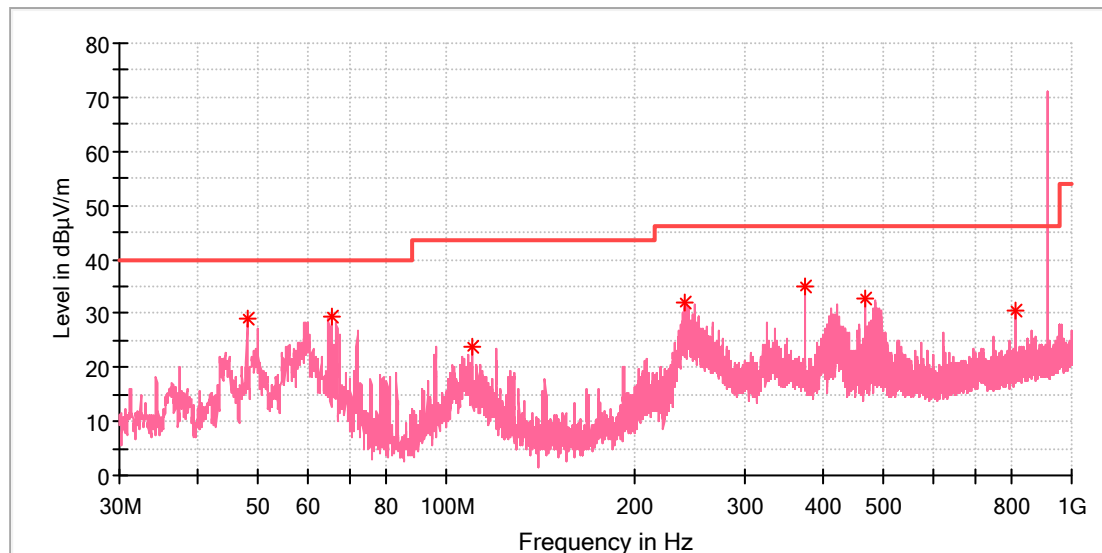
Co-loaction mode (2.4GHz Wi-Fi+900MHz RFID)

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

There are only floor-noises in above 18GHz emissions, thus no record for above 18GHz.

EUT Information

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	RFID+WIFI 2.4G
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

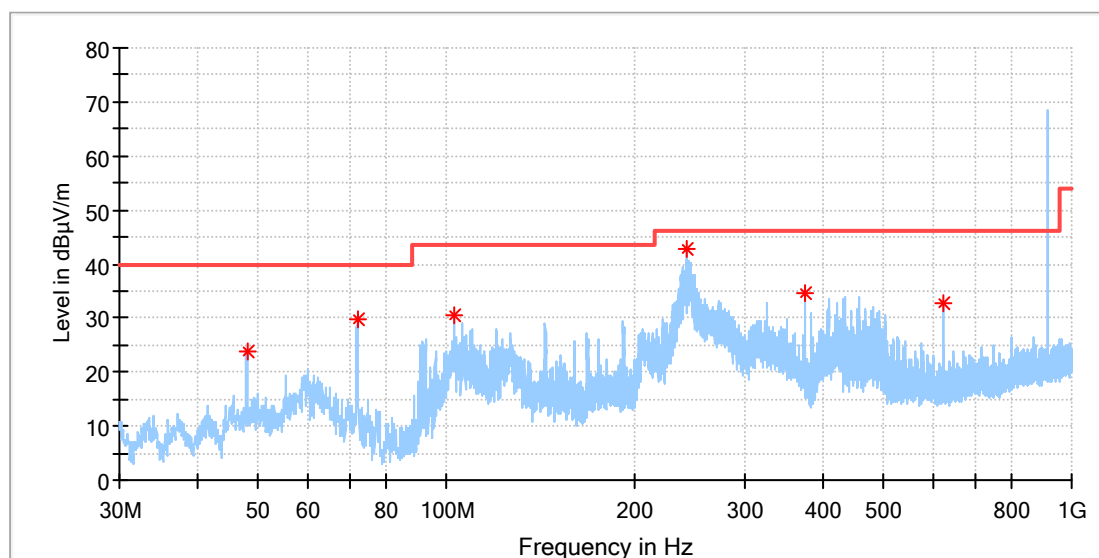
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.982308	28.93	40.00	11.07	100.0	V	70.0	-18.7
65.666154	29.50	40.00	10.50	100.0	V	86.0	-20.6
109.875769	23.71	43.50	19.79	100.0	V	79.0	-19.4
241.422692	31.84	46.00	14.16	100.0	V	39.0	-18.0
375.021539	34.90	46.00	11.10	100.0	V	257.0	-14.7
468.216154	32.76	46.00	13.24	100.0	V	127.0	-12.9
816.035769	30.60	46.00	15.40	100.0	V	265.0	-6.4

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
 Model: C3001
 Test Mode: RFID+WIFI 2.4G
 Order No/Sample No: 168398034/A003376045-001
 Test Voltage:: Battery
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

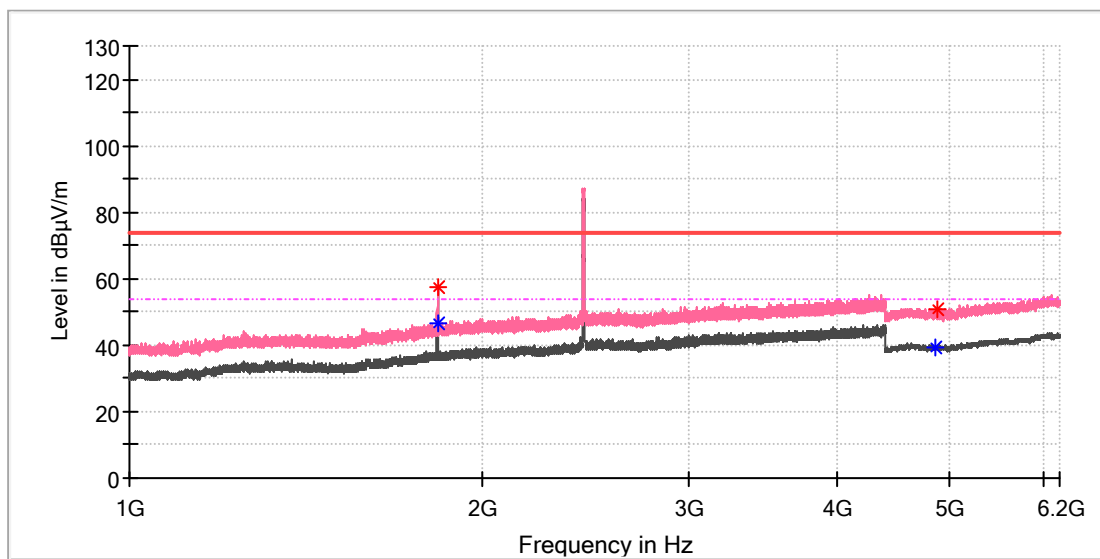
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.019615	23.94	40.00	16.06	100.0	H	173.0	-18.7
72.008462	29.80	40.00	10.20	100.0	H	354.0	-22.8
103.085769	30.47	43.50	13.03	100.0	H	68.0	-19.2
242.504615	42.87	46.00	3.13	100.0	H	84.0	-17.9
375.021539	34.43	46.00	11.57	100.0	H	345.0	-14.7
625.057692	32.90	46.00	13.10	100.0	H	156.0	-9.8

Final Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: RFID+WIFI 2.4G
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

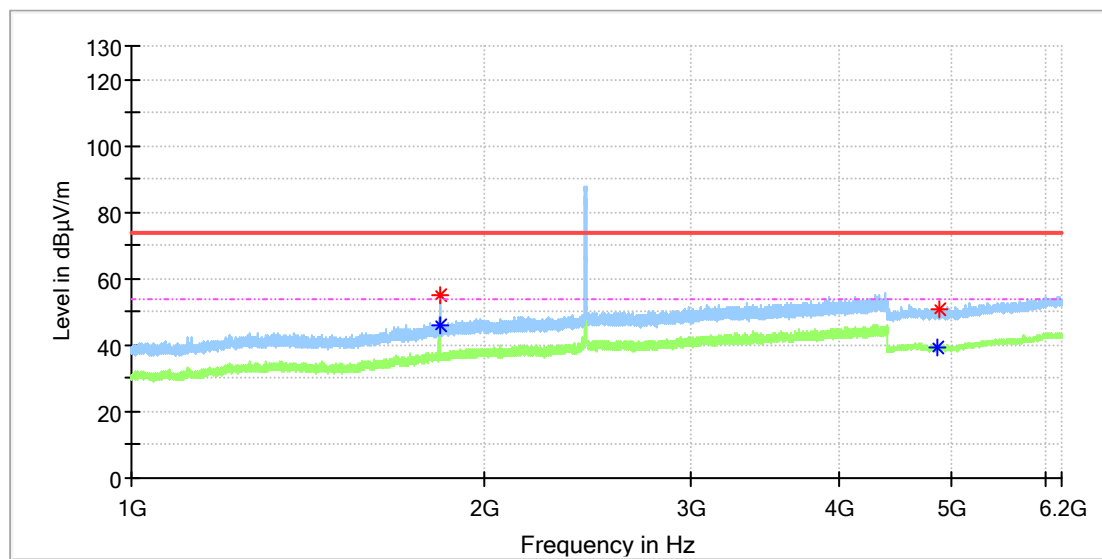
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1829.430000	57.69	---	74.00	16.31	100.0	V	87.0	4.9
1830.450000	---	46.80	54.00	7.20	100.0	V	107.0	4.9
4865.000000	---	39.47	54.00	14.53	100.0	V	210.0	11.8
4874.500000	50.72	---	74.00	23.28	100.0	V	344.0	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: Portable Mass Spectrometry System
 Model: C3001
 Test Mode: RFID+WIFI 2.4G
 Order No/Sample No: 168398034/A003376045-001
 Test Voltage:: Battery
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

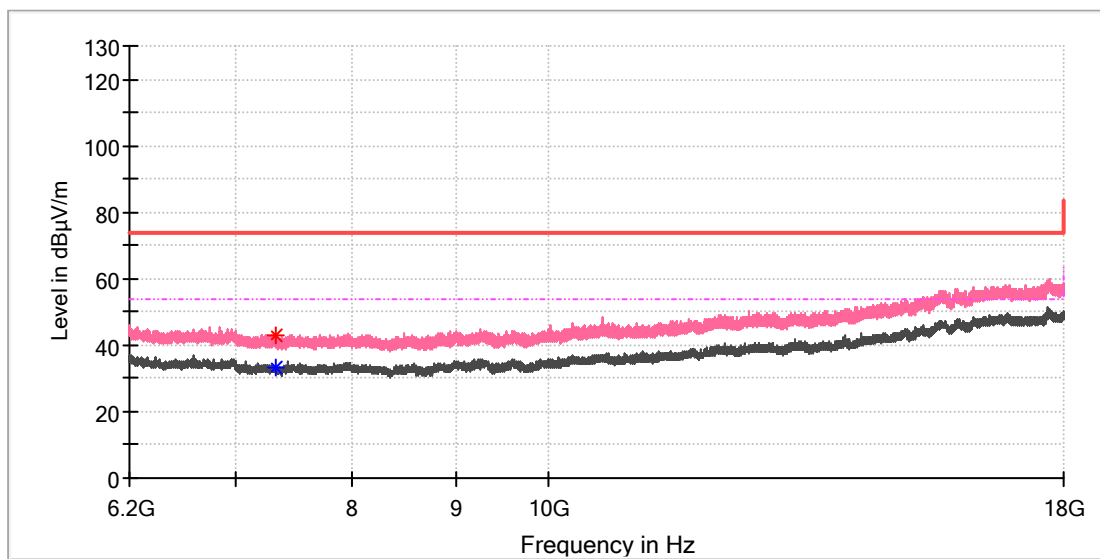
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1829.600000	54.73	---	74.00	19.27	100.0	H	237.0	4.9
1829.940000	---	45.98	54.00	8.02	100.0	H	237.0	4.9
4852.000000	---	39.59	54.00	14.41	100.0	H	272.0	11.8
4869.500000	50.80	---	74.00	23.20	100.0	H	347.0	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:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	RFID+WIFI 2.4G
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

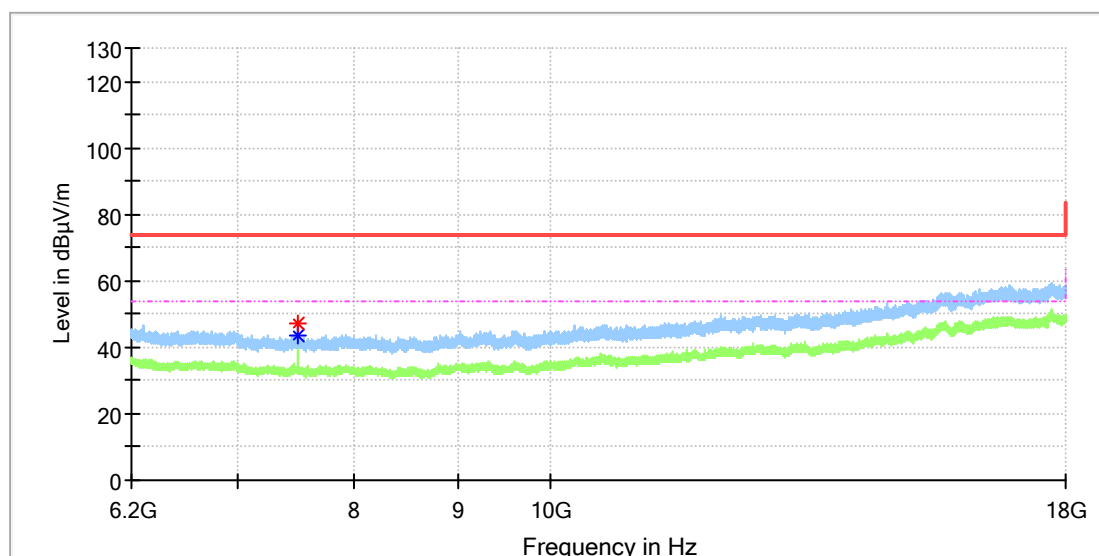
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7321.491667	---	33.50	54.00	20.50	100.0	V	289.0	8.2
7327.391667	43.00	---	74.00	31.00	100.0	V	314.0	8.1

Final Result

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

EUT Information

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	RFID+WIFI 2.4G
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
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)
7499.966667	47.16	---	74.00	26.84	100.0	H	98.0	8.7
7499.966667	---	43.25	54.00	10.75	100.0	H	98.0	8.7

Final_Result

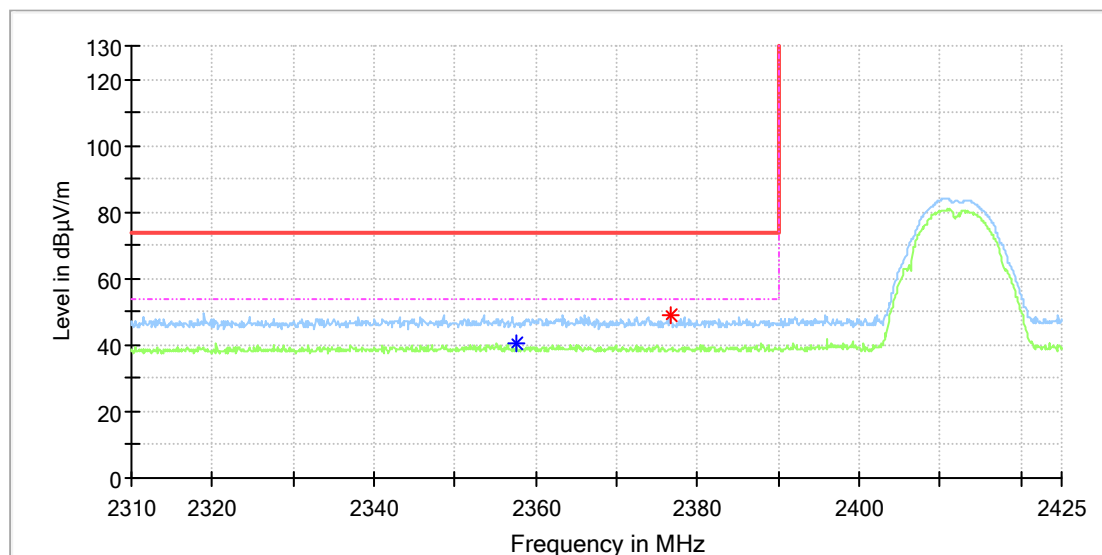
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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

Wi-Fi 802.11 b mode, 1 Mbps

EUT Information

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	WIFI 2.4G_11b_Ch1
Order No./Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

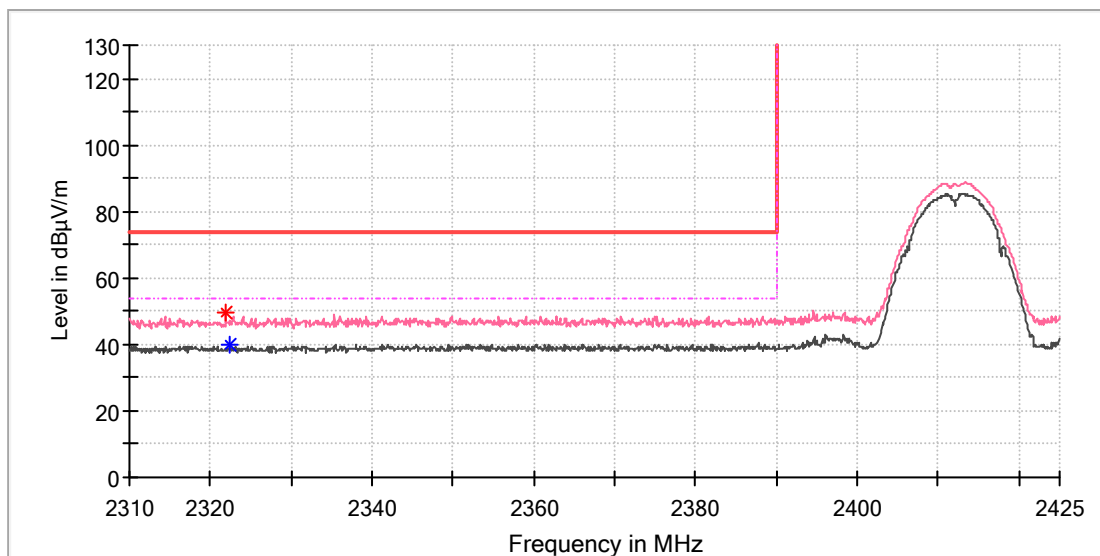
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2357.600000	---	40.79	54.00	13.21	100.0	H	54.0	6.9
2376.600000	49.10	---	74.00	24.90	100.0	H	13.0	6.9

Final Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch1
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

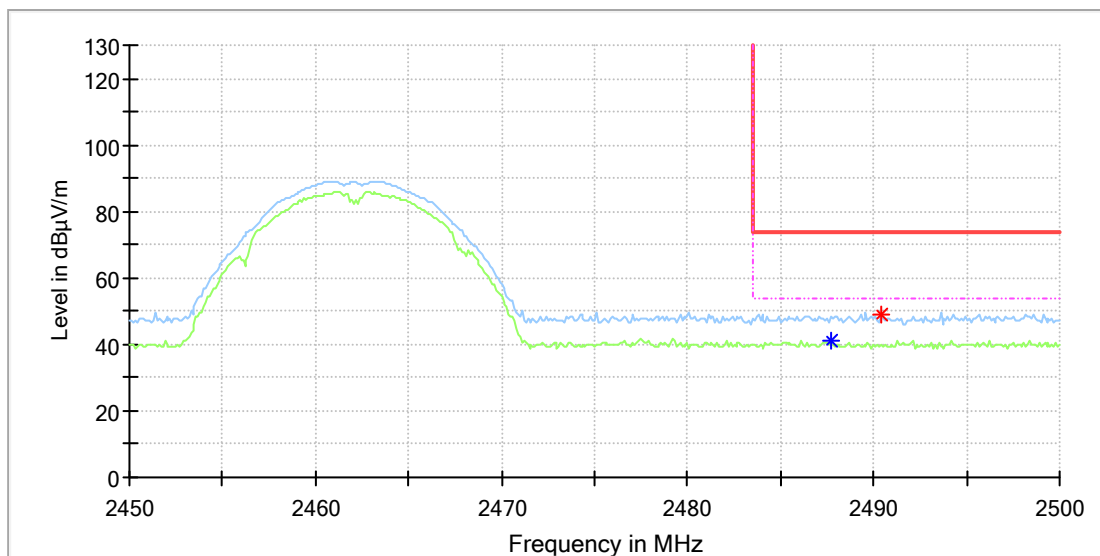
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2321.900000	49.31	---	74.00	24.69	100.0	V	232.0	6.6
2322.400000	---	39.85	54.00	14.15	100.0	V	178.0	6.6

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

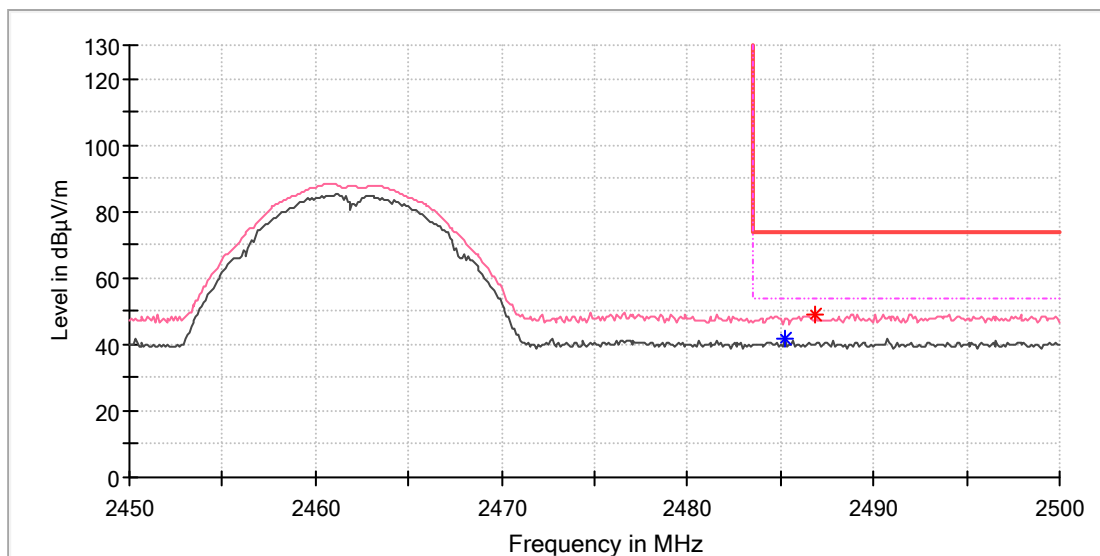
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.700000	---	41.20	54.00	12.80	100.0	H	144.0	7.4
2490.400000	49.22	---	74.00	24.78	100.0	H	50.0	7.4

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
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)
2485.200000	---	41.47	54.00	12.53	100.0	V	2.0	7.4
2486.900000	49.16	---	74.00	24.84	100.0	V	109.0	7.4

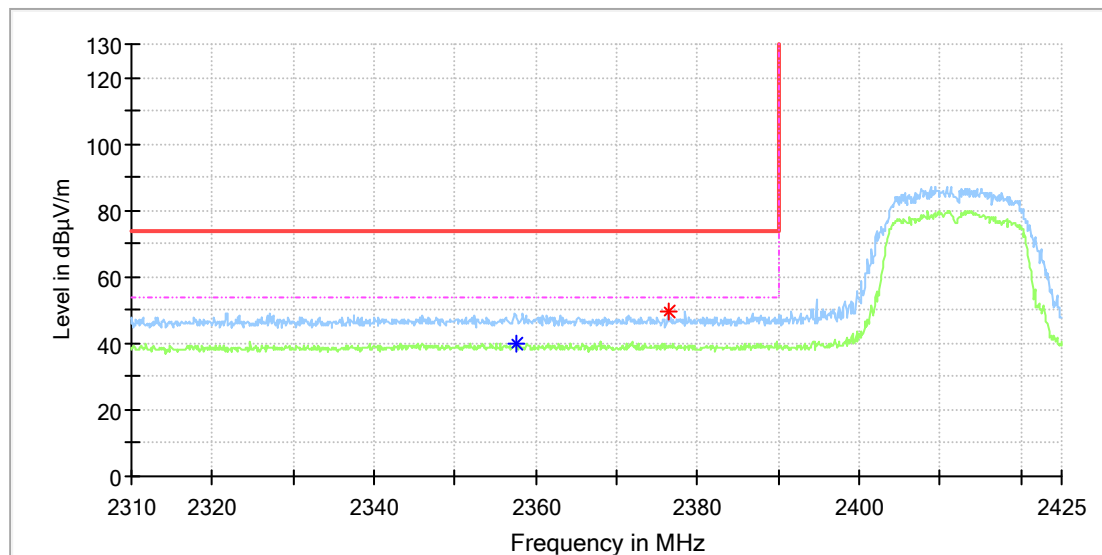
Final_Result

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

Wi-Fi 802.11 g mode, 6 Mbps

EUT Information

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

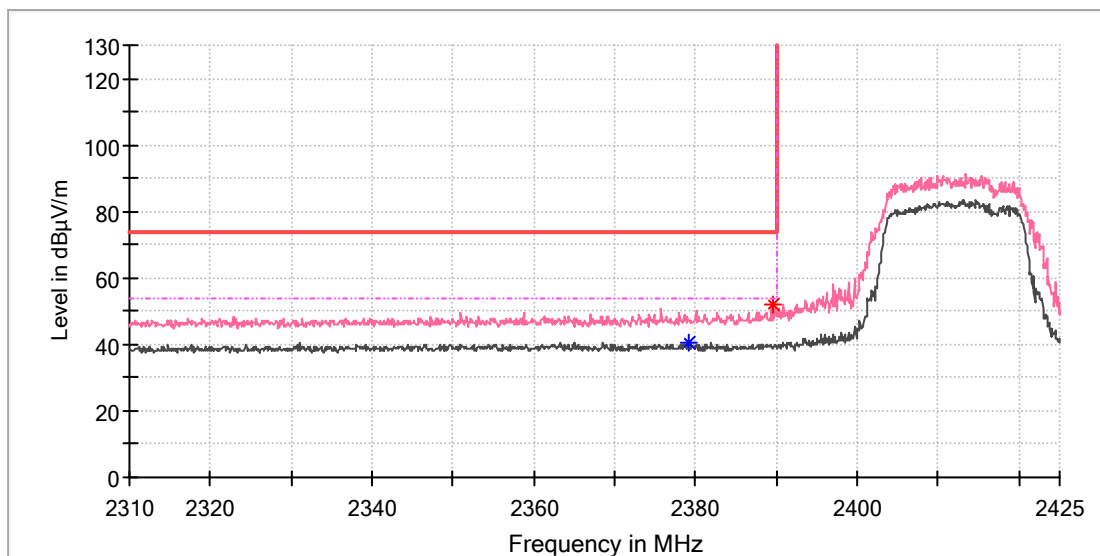
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2357.700000	---	39.92	54.00	14.08	100.0	H	282.0	6.9
2376.300000	49.37	---	74.00	24.63	100.0	H	140.0	6.9

Final Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11g_Ch1
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

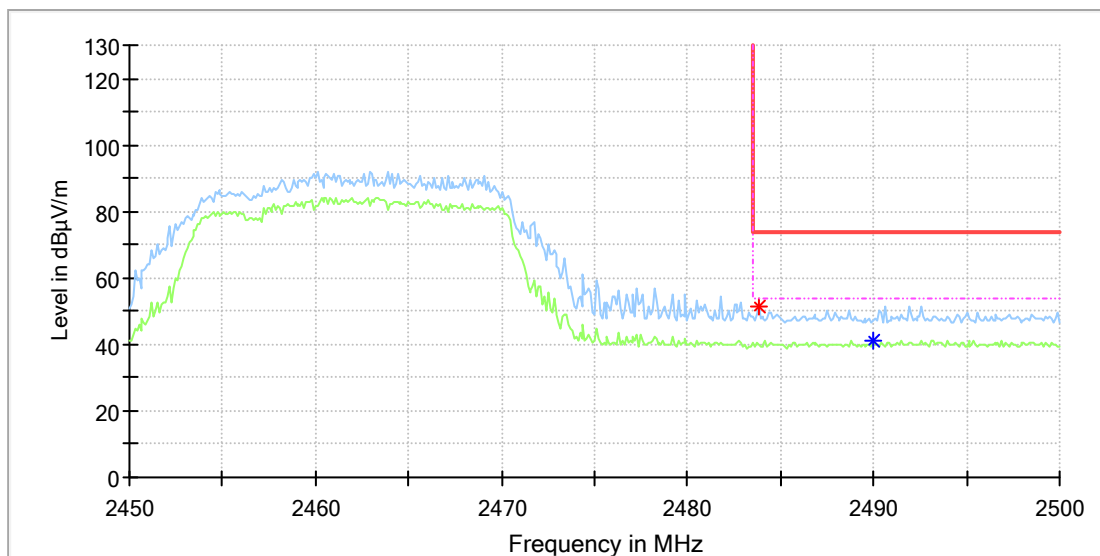
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2379.200000	---	40.78	54.00	13.22	100.0	V	340.0	7.0
2389.500000	52.21	---	74.00	21.79	100.0	V	287.0	7.0

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11g_Ch11
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

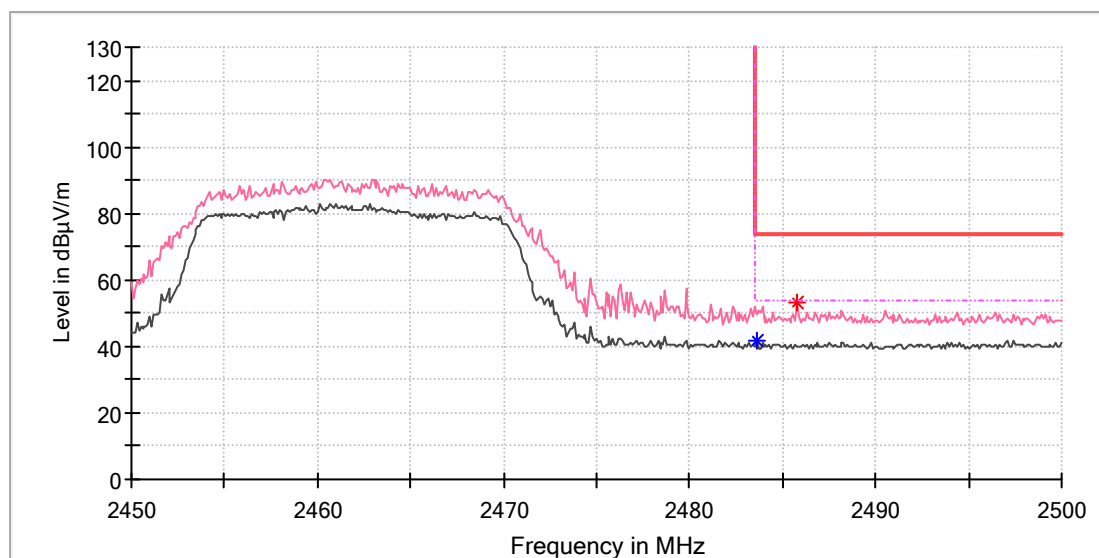
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.800000	51.37	---	74.00	22.63	100.0	H	227.0	7.4
2490.000000	---	40.85	54.00	13.15	100.0	H	331.0	7.4

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
 Model: C3001
 Test Mode: WIFI 2.4G_11g_Ch11
 Order No/Sample No: 168398034/A003376045-001
 Test Voltage:: Battery
 Remark: Temp 22 Humi:52%
 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)
2483.600000	---	41.74	54.00	12.26	100.0	V	0.0	7.4
2485.800000	53.01	---	74.00	20.99	100.0	V	58.0	7.4

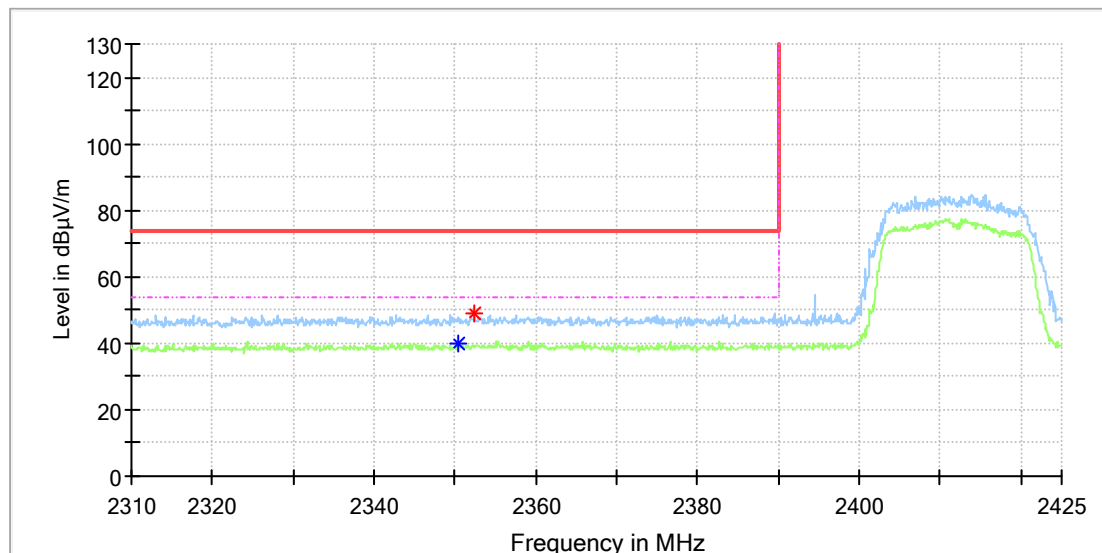
Final_Result

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

Wi-Fi 802.11 n mode, MCS0

EUT Information

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

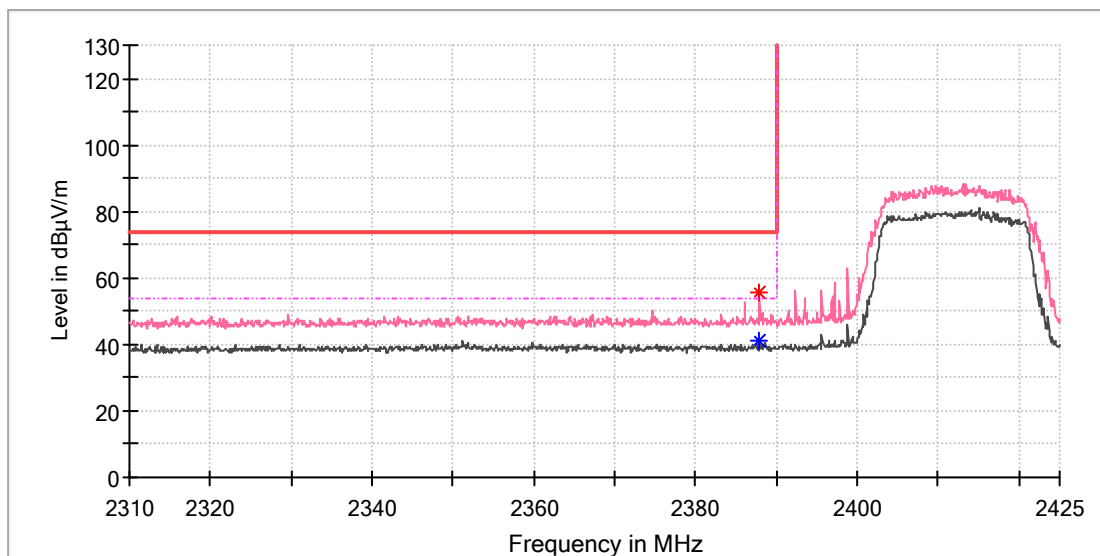
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2350.300000	---	40.20	54.00	13.80	100.0	H	315.0	6.9
2352.400000	48.86	---	74.00	25.14	100.0	H	194.0	6.9

Final_Result

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

EUT Information

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

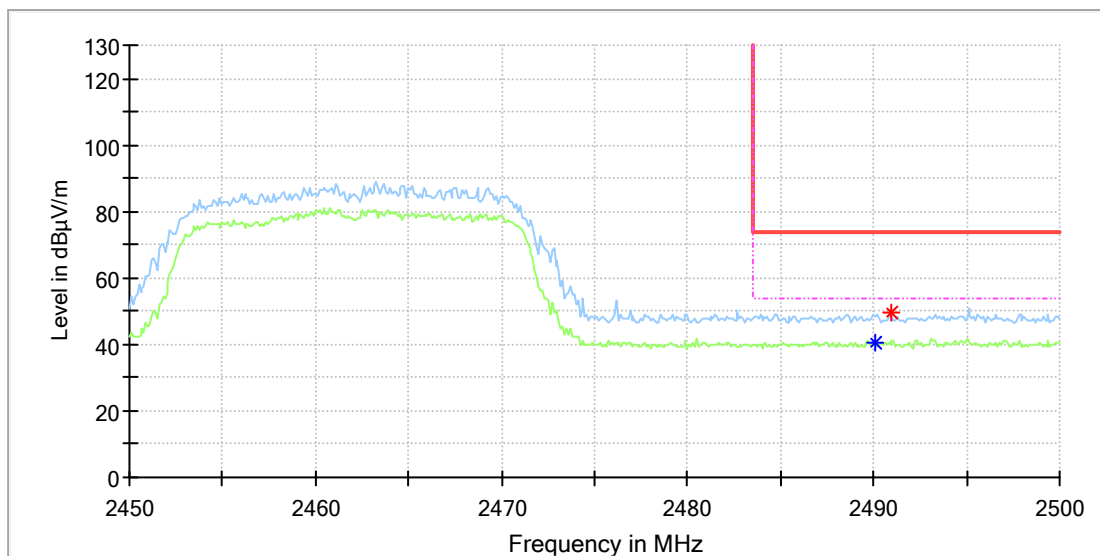
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.900000	---	40.85	54.00	13.15	100.0	V	14.0	7.0
2387.900000	55.93	---	74.00	18.07	100.0	V	14.0	7.0

Final_Result

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

EUT Information

EUT Name: Portable Mass Spectrometry System
Model: C3001
Test Mode: WIFI 2.4G_11n20_Ch11
Order No/Sample No: 168398034/A003376045-001
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

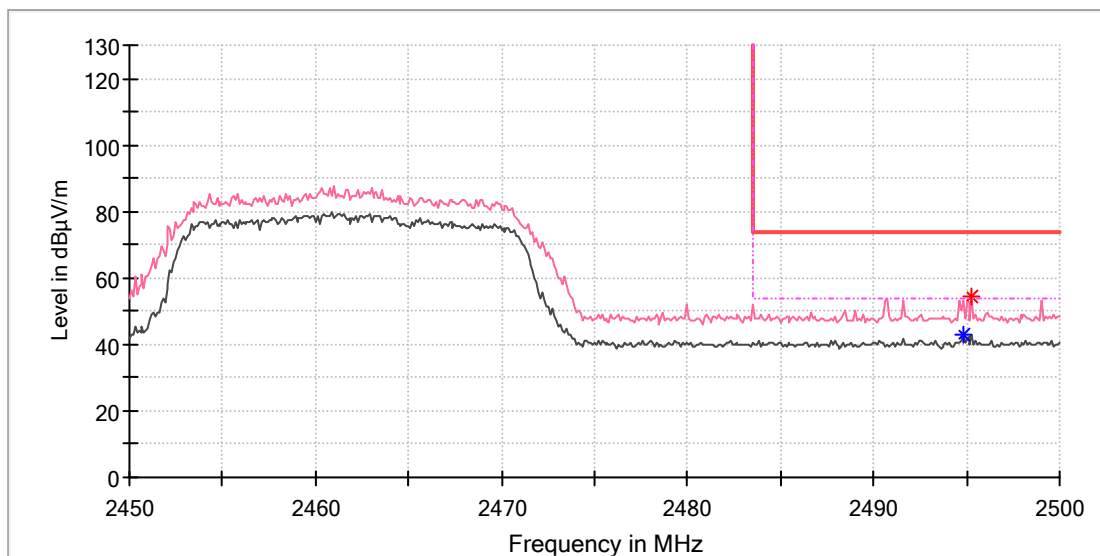
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2490.100000	---	40.79	54.00	13.21	100.0	H	264.0	7.4
2490.900000	49.70	---	74.00	24.30	100.0	H	67.0	7.4

Final_Result

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

EUT Information

EUT Name:	Portable Mass Spectrometry System
Model:	C3001
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168398034/A003376045-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
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)
2494.800000	---	43.02	54.00	10.98	100.0	V	174.0	7.4
2495.300000	54.42	---	74.00	19.58	100.0	V	174.0	7.4

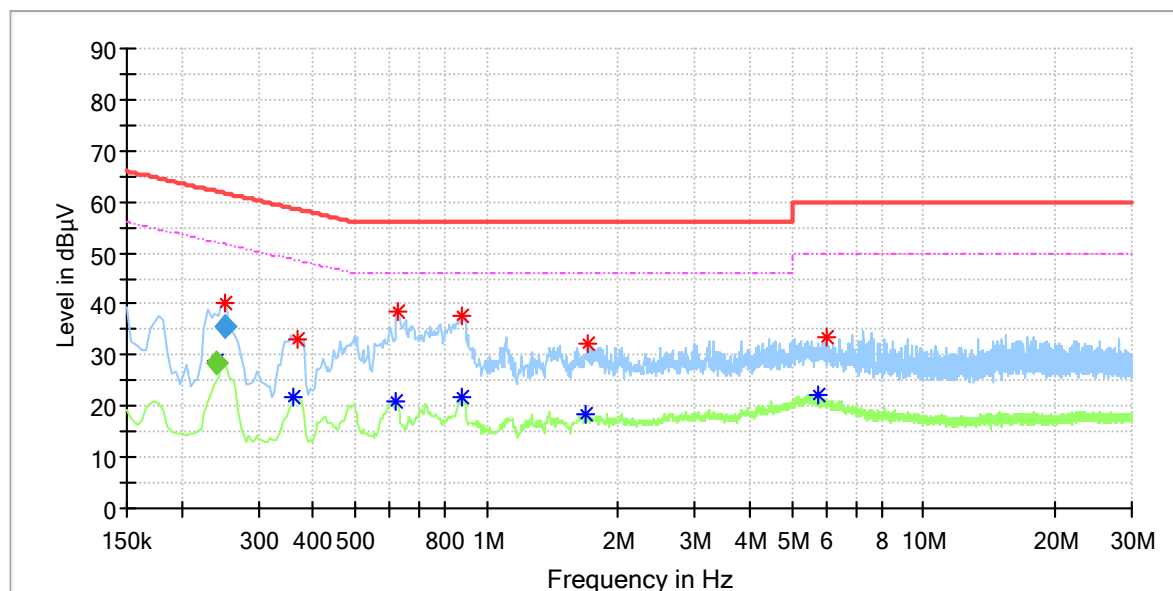
Final_Result

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

Appendix A.7: Test Plots of Conducted Emission on AC Mains

EUT Information

EUT Name: Portable Mass Spectrometry System
 Order No: 168398034 20
 Model: C3001
 Test Mode: ON, Normal working with Wi-Fi and RF ID connected
 Test Voltage: AC 120V/60Hz
 Test Standard: FCC Part 15B
 Test By/Review By: Kevin Zhou/Gary Chen
 Tem./Hum./Pressure: 25.3°C/50.7%/101kPa
 Remark: SR1



Critical_Freqs

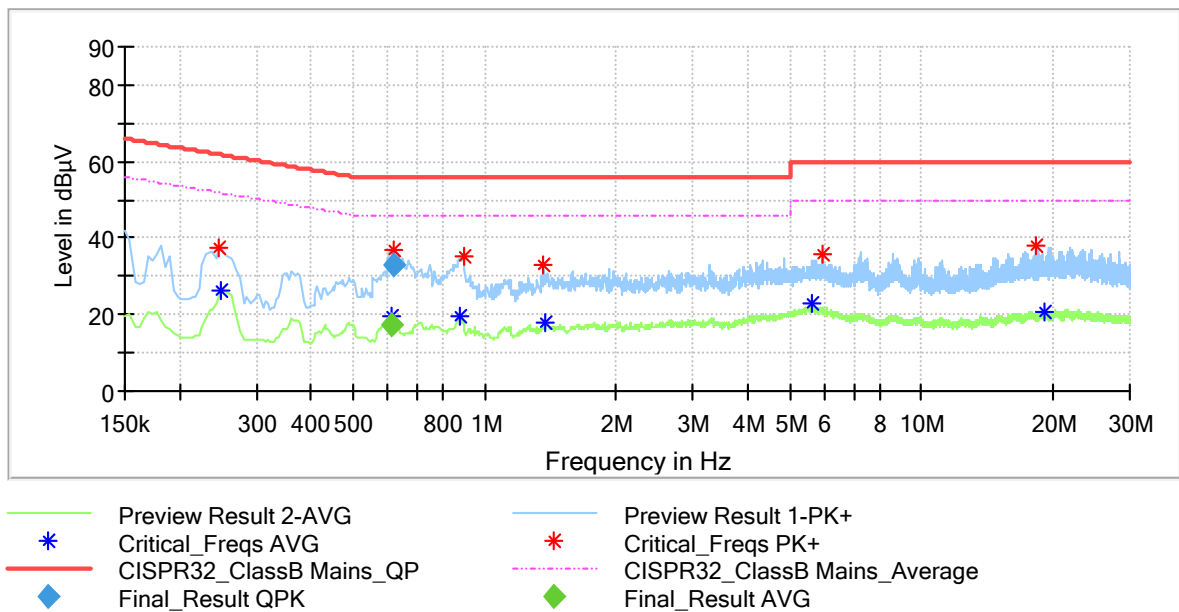
Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.240500	---	28.75	51.76	23.01	L1	9.8
0.252500	40.04	---	61.76	21.72	L1	9.8
0.362000	---	21.72	48.68	26.96	L1	10.0
0.370000	33.03	---	58.50	25.47	L1	10.0
0.620000	---	20.73	46.00	25.27	L1	9.9
0.624000	38.44	---	56.00	17.56	L1	9.9
0.880000	---	21.57	46.00	24.43	L1	9.8
0.880000	37.62	---	56.00	18.38	L1	9.8
1.692000	---	18.31	46.00	27.69	L1	9.9
1.704000	32.39	---	56.00	23.61	L1	9.9
5.748000	---	22.01	50.00	27.99	L1	10.1
5.984000	33.30	---	60.00	26.70	L1	10.1

Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.240500	---	28.53	52.08	23.55	1000.0	9.000	L1	9.8
0.252500	35.57	---	61.68	26.10	1000.0	9.000	L1	9.8

EUT Information

EUT Name: Portable Mass Spectrometry System
Order No: 168398034 20
Model: C3001
Test Mode: ON, Normal working with Wi-Fi and RF ID connected
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15B
Test By/Review By: Kevin Zhou/Gary Chen
Tem./Hum./Pressure: 25.3°C/50.7%/101kPa
Remark: SR1



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.246000	37.35	---	61.89	24.54	N	9.7
0.250000	---	26.27	51.76	25.48	N	9.7
0.614500	---	19.61	46.00	26.39	N	9.9
0.621500	36.63	---	56.00	19.37	N	9.9
0.880000	---	19.37	46.00	26.63	N	9.8
0.896000	35.17	---	56.00	20.83	N	9.8
1.364000	32.90	---	56.00	23.10	N	9.8
1.380000	---	17.65	46.00	28.35	N	9.8
5.584000	---	22.68	50.00	27.32	N	10.1
5.948000	35.55	---	60.00	24.45	N	10.1
18.236000	37.87	---	60.00	22.13	N	10.5
19.036000	---	20.67	50.00	29.33	N	10.6

Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.614500	---	17.29	46.00	28.71	1000.0	9.000	N	9.9
0.621500	33.04	---	56.00	22.96	1000.0	9.000	N	9.9