

## Appendix A: Test Results

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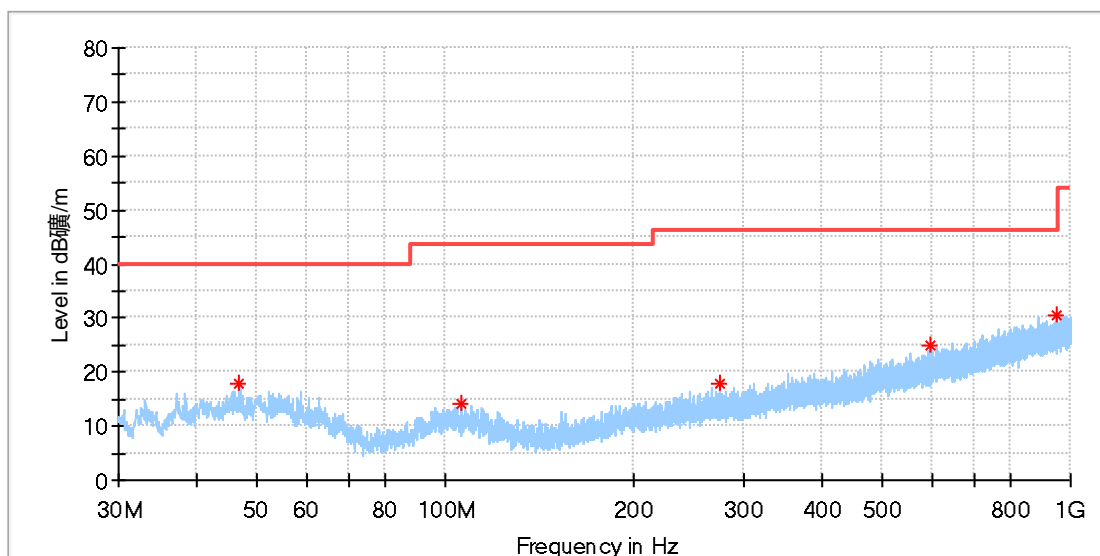
## Appendix A.1: Test Results of Field Strength of Fundamental & Harmonics

Note: The testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz to 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

### EUT Information

EUT Name:	Wireless Mouse
Model:	MA203W
Test Mode:	2.4GHz M CH
Order No/Sample No:	168433502/A003522644-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

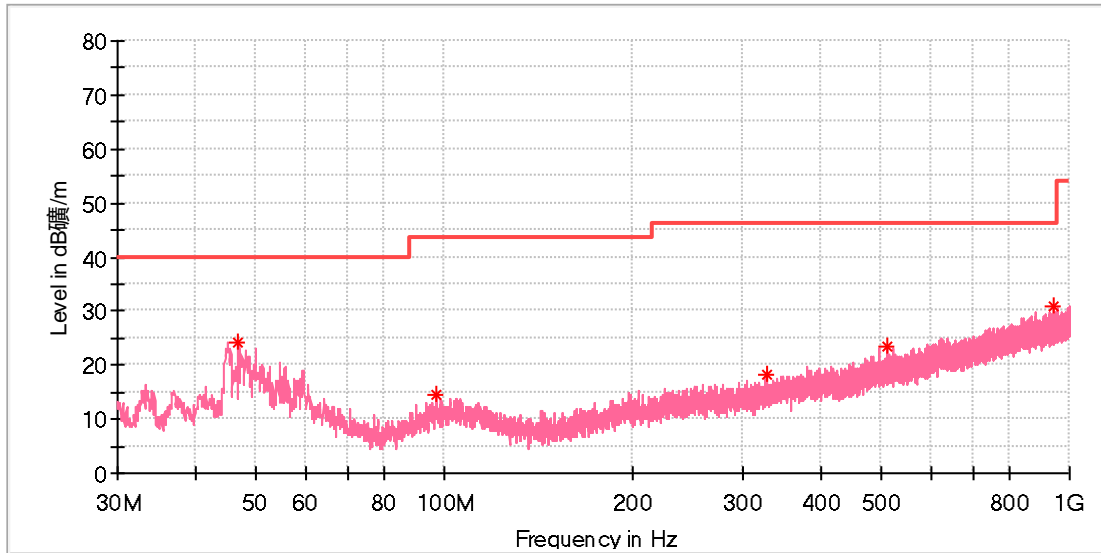
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.878000	18.02	40.00	21.98	100.0	H	13.0	-18.5
106.242000	14.27	43.50	29.23	100.0	H	248.0	-18.8
275.022000	17.84	46.00	28.16	100.0	H	248.0	-16.8
598.420000	25.08	46.00	20.92	100.0	H	45.0	-9.9
951.936500	30.63	46.00	15.37	100.0	H	277.0	-4.4

### Final Result

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

### EUT Information

EUT Name: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz M CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 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)
46.878000	24.33	40.00	15.67	100.0	V	119.0	-18.5
97.318000	14.58	43.50	28.92	100.0	V	19.0	-19.4
327.596000	18.37	46.00	27.63	100.0	V	69.0	-15.6
511.702000	23.37	46.00	22.63	100.0	V	169.0	-11.6
940.587500	30.79	46.00	15.21	100.0	V	275.0	-4.5

### Final\_Result

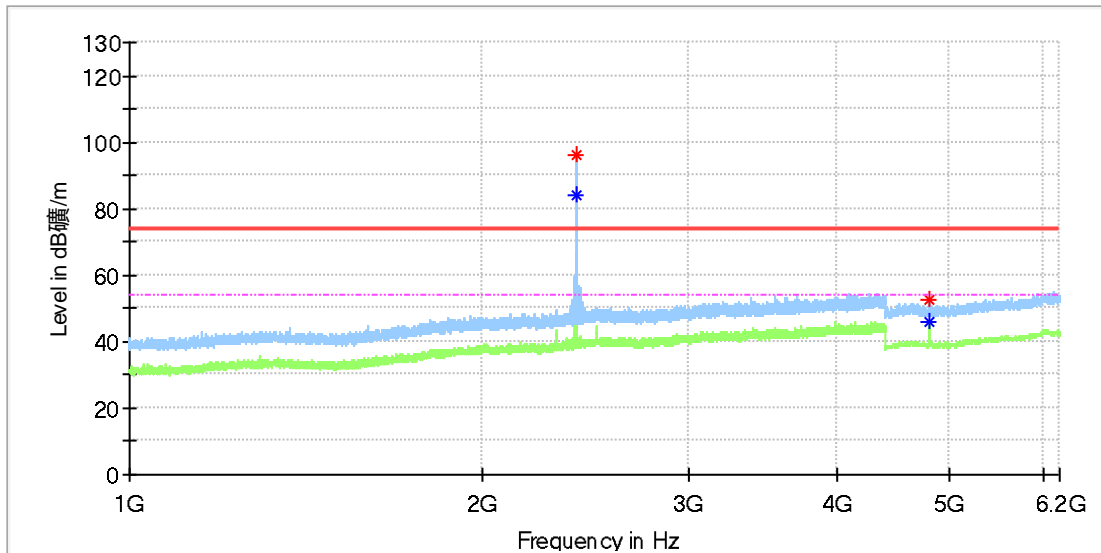
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

### EUT Information

EUT Name:	Wireless Mouse
Model:	MA203W
Test Mode:	2.4GHz L CH
Order No/Sample No:	168433502/A003522644-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

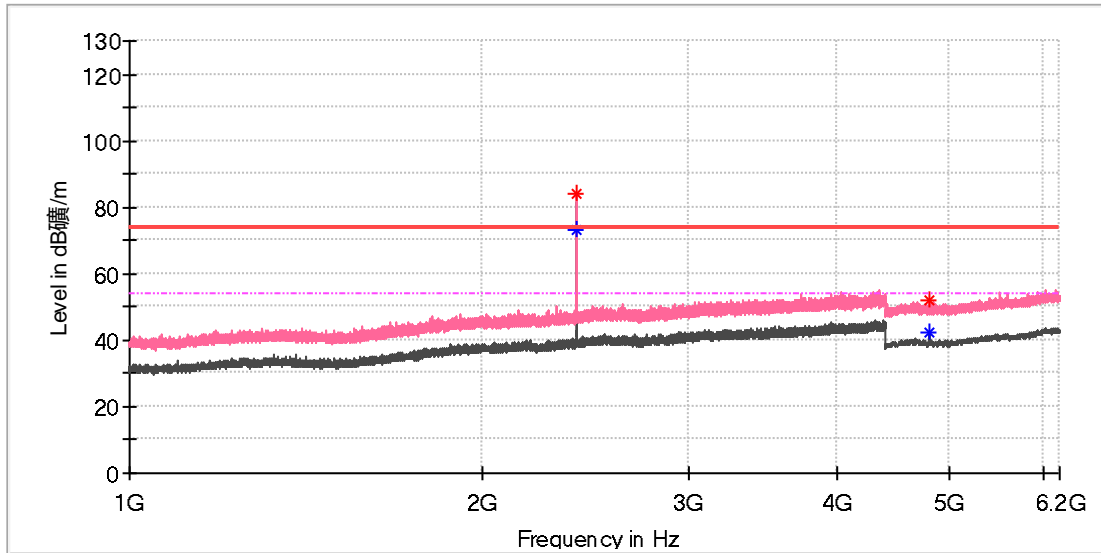
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.990000	---	84.05	94.00	9.95	100.0	H	0.0	7.0
2403.690000	96.02	---	114.00	17.98	100.0	H	139.0	7.0
4806.000000	---	45.68	54.00	8.32	100.0	H	5.0	11.8
4807.000000	52.55	---	74.00	21.45	100.0	H	5.0	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: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz L CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

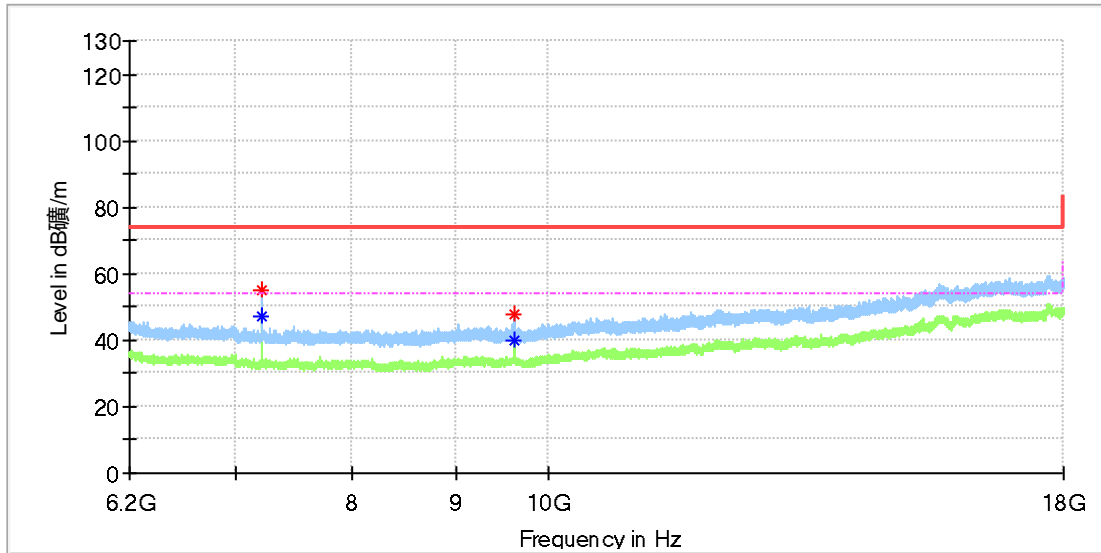
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.990000	---	73.11	94.00	20.89	100.0	V	327.0	7.0
2402.500000	83.84	---	114.00	30.16	100.0	V	306.0	7.0
4806.000000	51.73	---	74.00	22.27	100.0	V	10.0	11.8
4806.500000	---	42.49	54.00	11.51	100.0	V	10.0	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: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz L CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

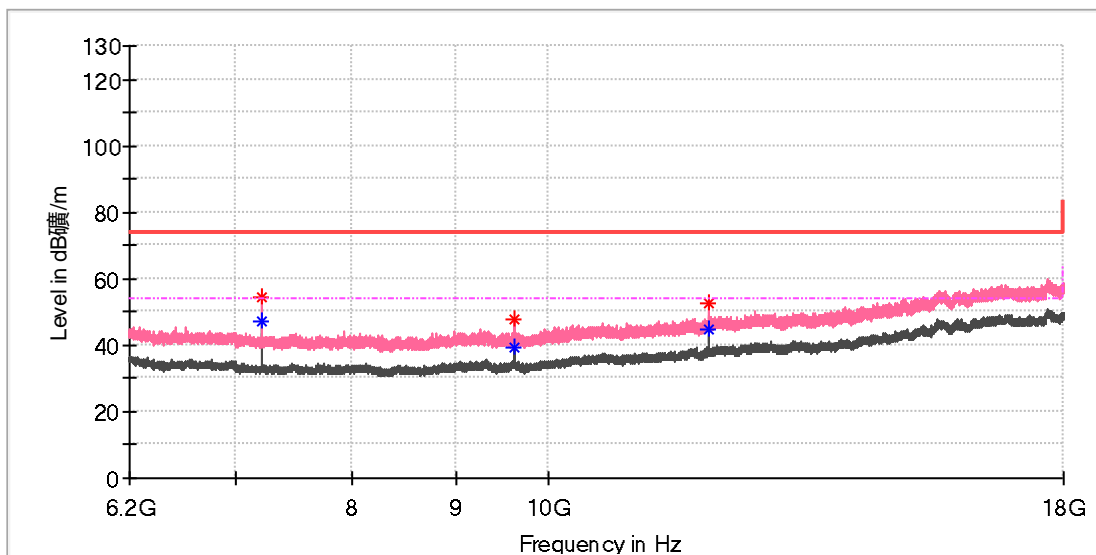
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7207.425000	54.75	---	74.00	19.25	100.0	H	53.0	8.8
7208.900000	---	47.24	54.00	6.76	100.0	H	19.0	8.8
9610.200000	47.78	---	74.00	26.22	100.0	H	284.0	10.4
9610.200000	---	39.62	54.00	14.38	100.0	H	284.0	10.4

### Final Result

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

### EUT Information

EUT Name: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz L CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

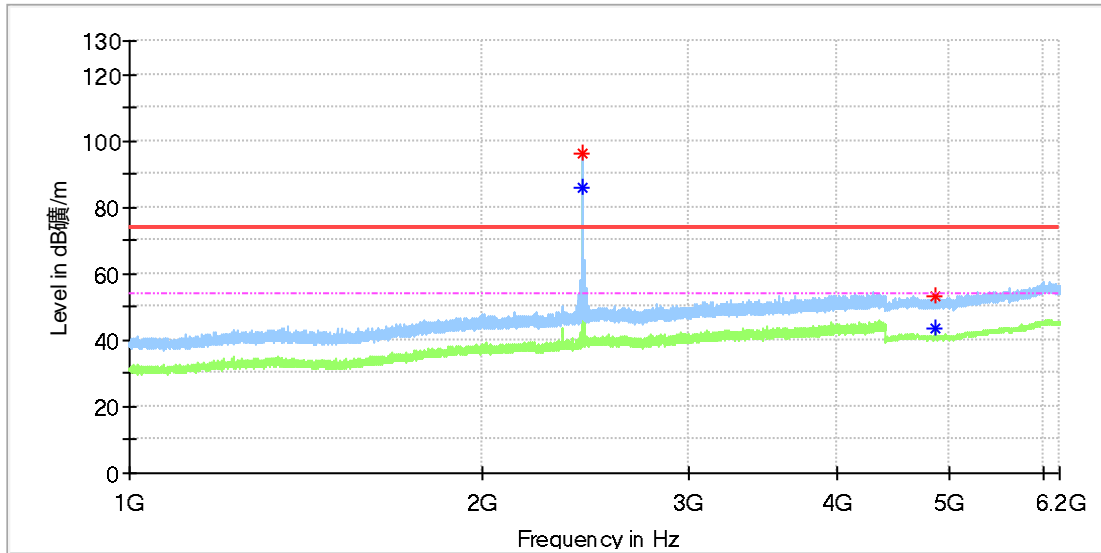
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7209.883333	---	47.03	54.00	6.97	100.0	V	167.0	8.7
7209.883333	54.13	---	74.00	19.87	100.0	V	167.0	8.7
9610.200000	48.03	---	74.00	25.97	100.0	V	0.0	10.4
9610.200000	---	39.21	54.00	14.79	100.0	V	0.0	10.4
12012.483333	52.90	---	74.00	21.10	100.0	V	61.0	14.0
12012.483333	---	44.92	54.00	9.08	100.0	V	61.0	14.0

### Final\_Result

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

EUT Name: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz M CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 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)
2431.910000	---	86.09	94.00	7.91	100.0	H	125.0	7.3
2432.420000	96.22	---	114.00	17.78	100.0	H	125.0	7.3
4864.500000	53.41	---	74.00	20.59	100.0	H	62.0	11.8
4867.000000	---	43.82	54.00	10.18	100.0	H	0.0	11.8

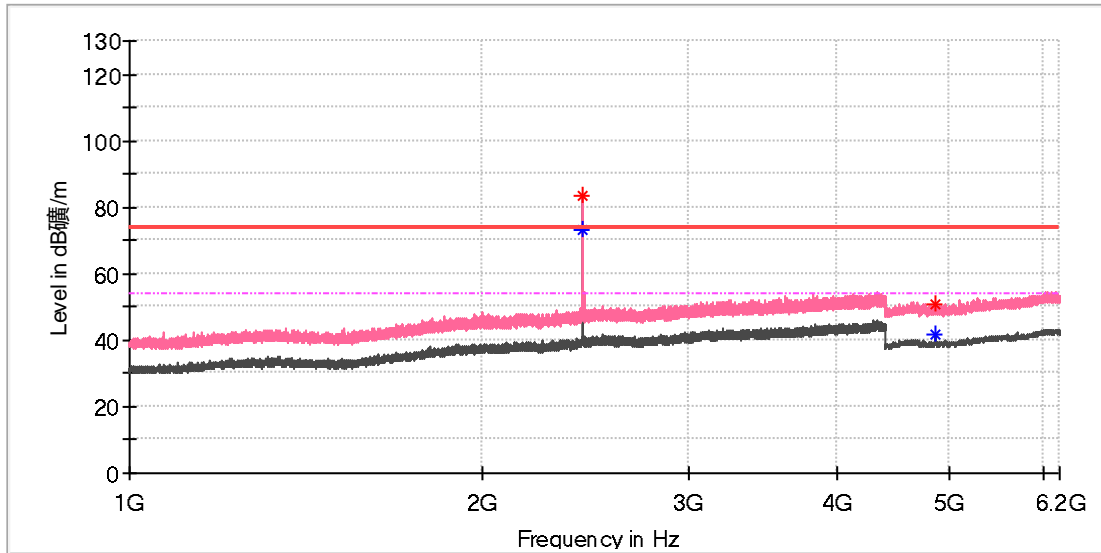
### Final Result

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



### EUT Information

EUT Name: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz M CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

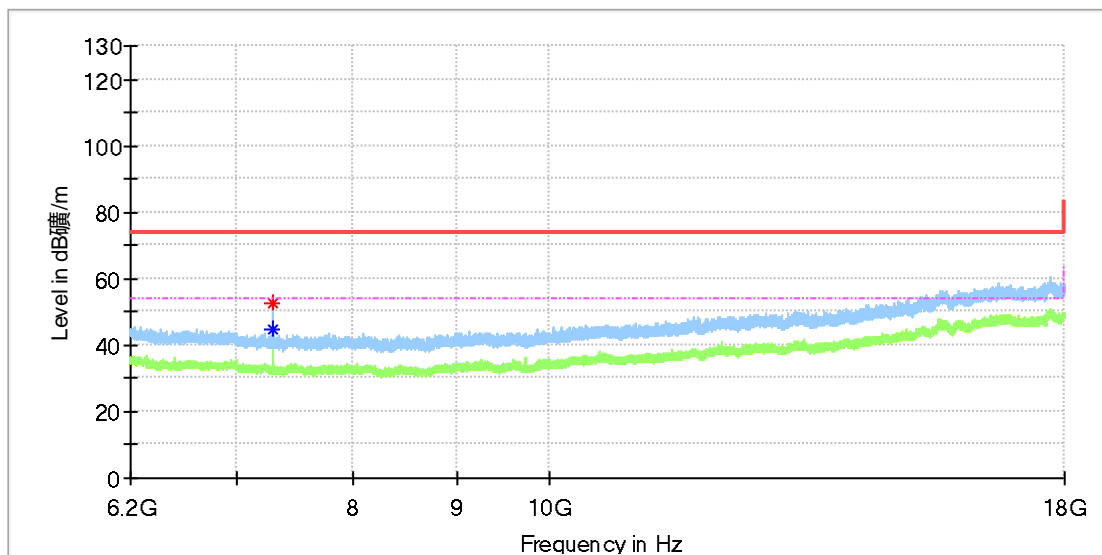
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2432.420000	83.38	---	114.00	30.62	100.0	V	265.0	7.3
2434.120000	---	72.97	94.00	21.03	100.0	V	265.0	7.3
4865.000000	---	41.70	54.00	12.30	100.0	V	8.0	11.8
4868.000000	50.81	---	74.00	23.19	100.0	V	194.0	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: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz M CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

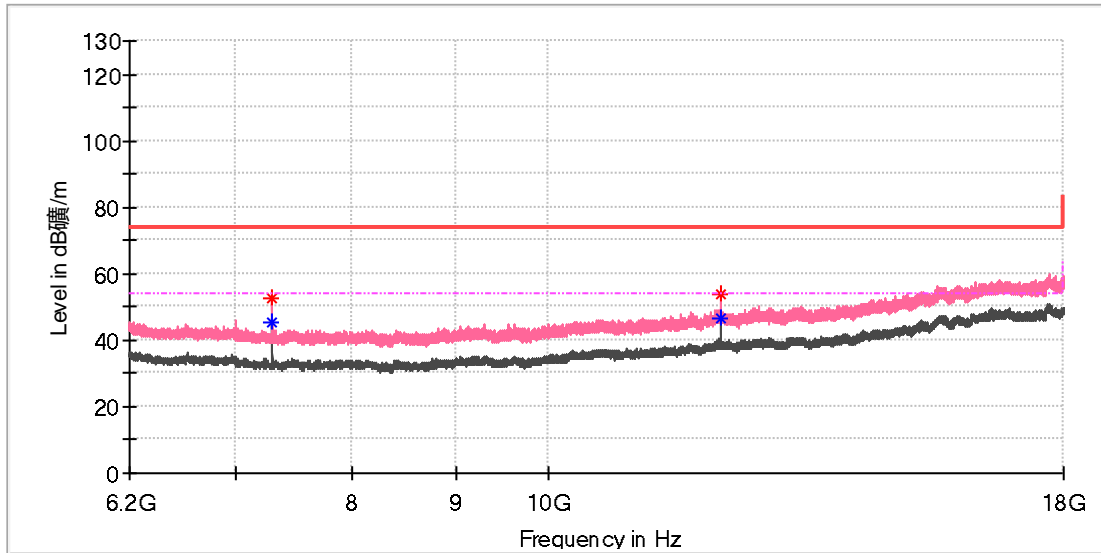
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7299.858333	---	44.70	54.00	9.30	100.0	H	0.0	8.3
7300.350000	52.62	---	74.00	21.38	100.0	H	0.0	8.3

### Final\_Result

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

### EUT Information

EUT Name: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz M CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

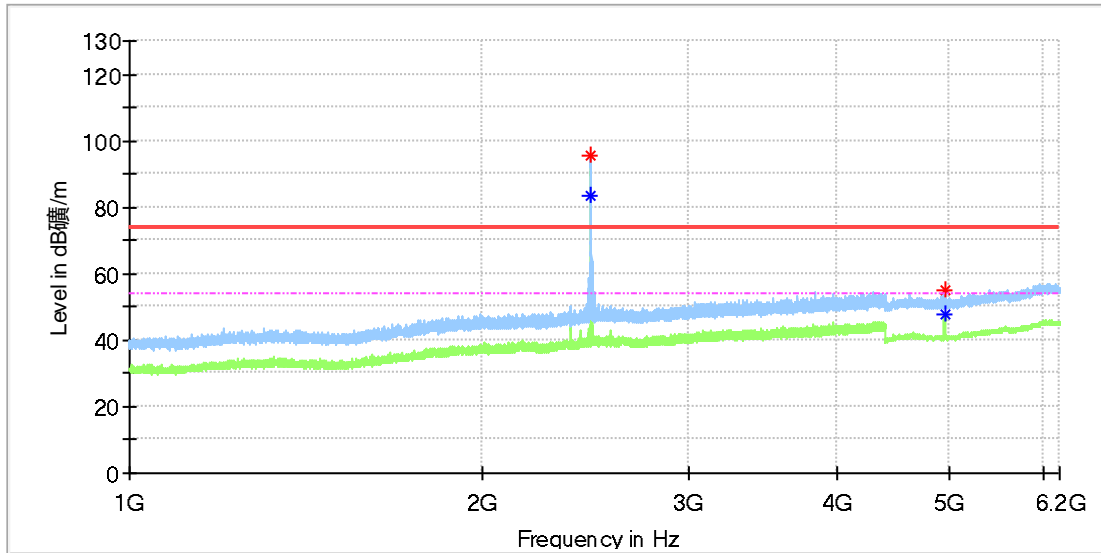
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7297.400000	52.48	---	74.00	21.52	100.0	V	164.0	8.3
7297.891667	---	45.18	54.00	8.82	100.0	V	164.0	8.3
12162.441667	---	46.27	54.00	7.73	100.0	V	31.0	14.5
12162.933333	53.53	---	74.00	20.47	100.0	V	31.0	14.5

### Final Result

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

### EUT Information

EUT Name: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz H CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

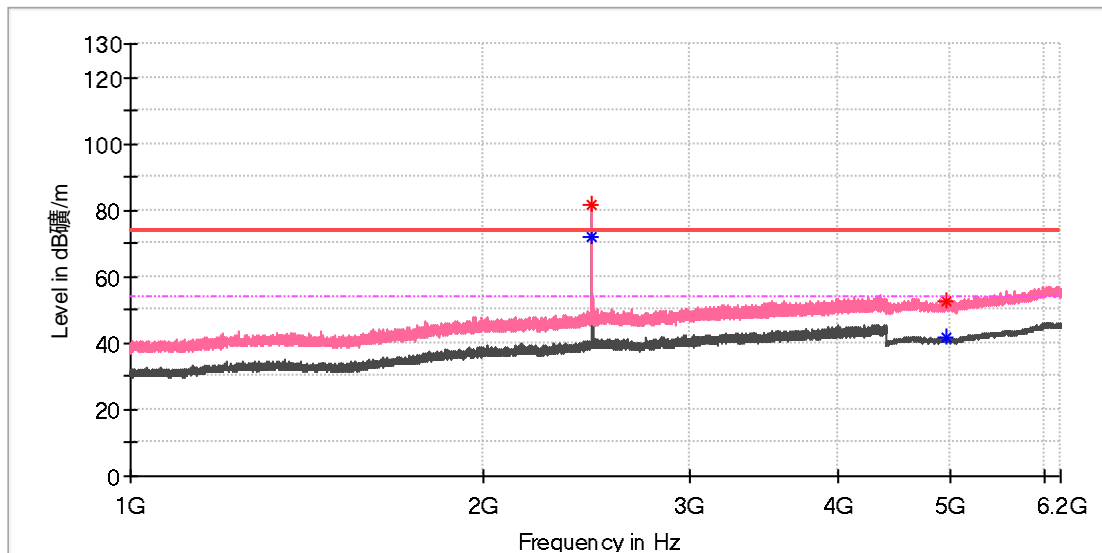
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2473.560000	95.42	---	114.00	18.58	100.0	H	124.0	7.4
2474.240000	---	83.19	94.00	10.81	100.0	H	124.0	7.4
4946.500000	---	47.77	54.00	6.23	100.0	H	68.0	11.8
4947.000000	55.06	---	74.00	18.94	100.0	H	76.0	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: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz H CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

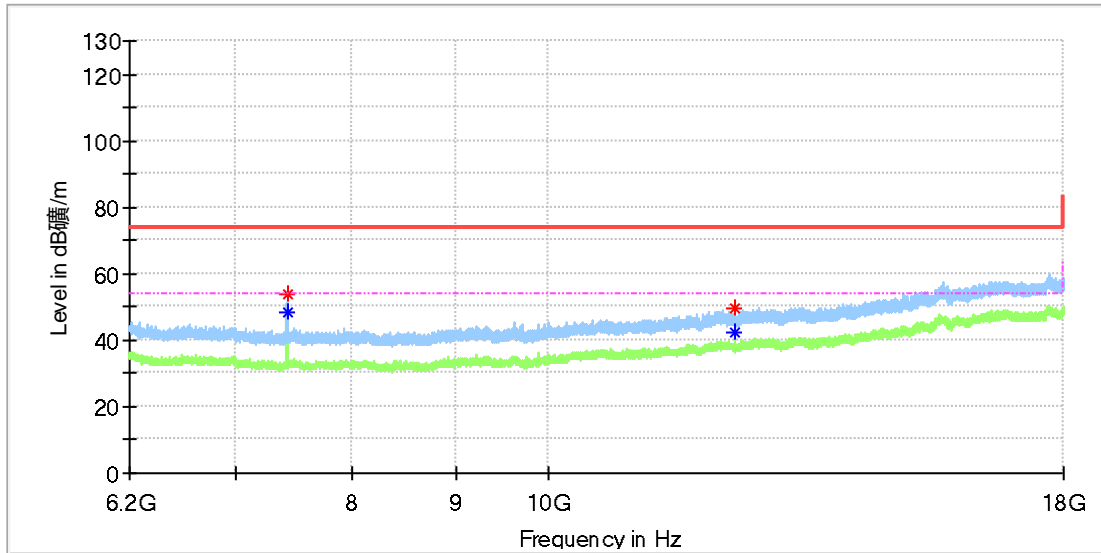
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2471.860000	---	71.69	94.00	22.31	100.0	V	329.0	7.4
2472.540000	81.62	---	114.00	32.38	100.0	V	329.0	7.4
4946.000000	---	42.02	54.00	11.98	100.0	V	328.0	11.8
4953.000000	52.87	---	74.00	21.13	100.0	V	199.0	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: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz H CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

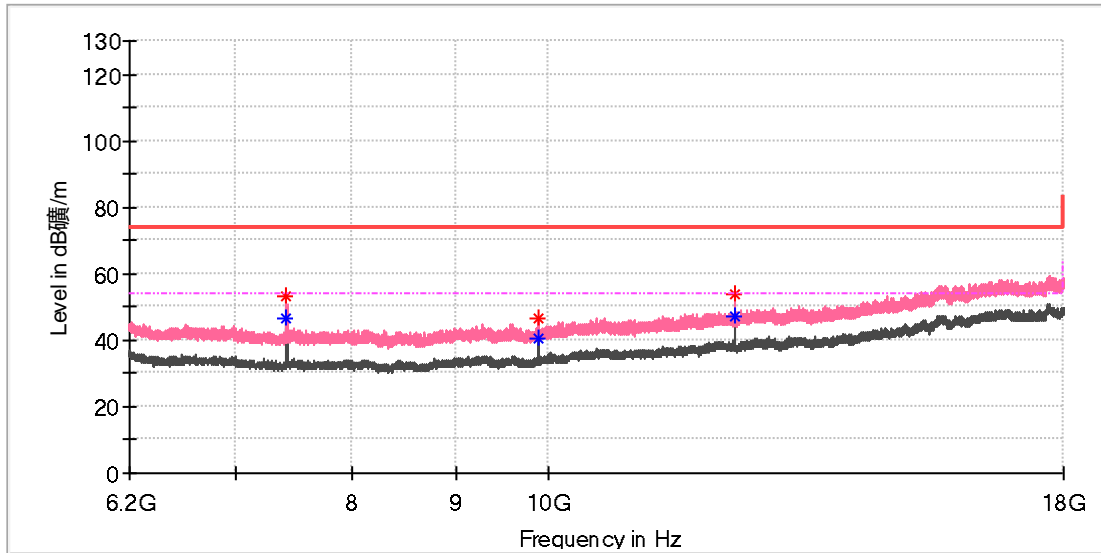
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7420.316667	---	48.11	54.00	5.89	100.0	H	46.0	8.4
7420.316667	53.98	---	74.00	20.02	100.0	H	46.0	8.4
12367.466667	49.33	---	74.00	24.67	100.0	H	134.0	14.8
12367.466667	---	42.21	54.00	11.79	100.0	H	134.0	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: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz H CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



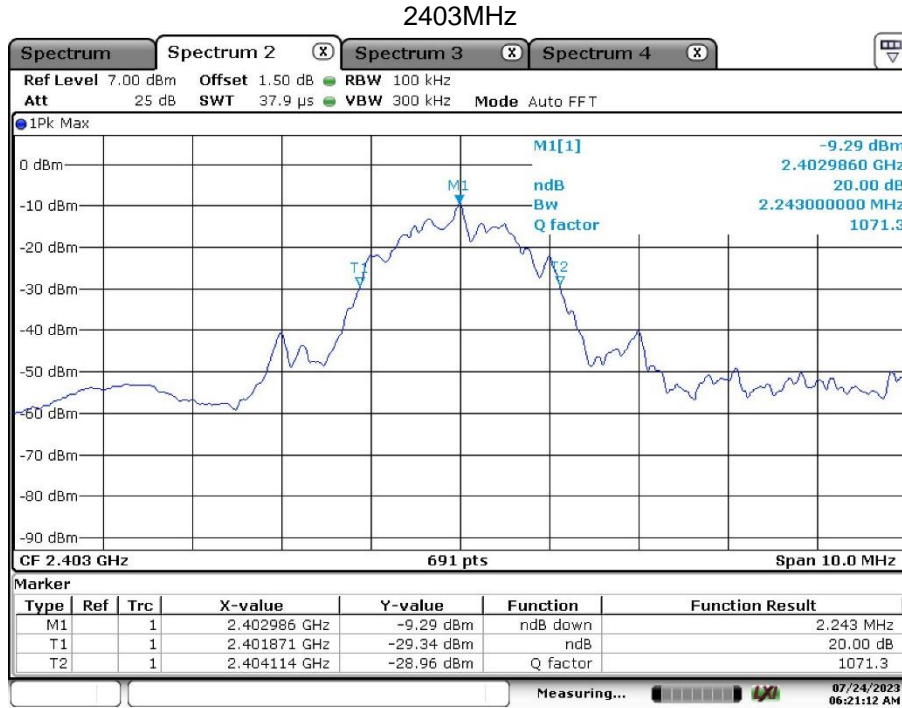
### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7417.366667	---	46.59	54.00	7.41	100.0	V	180.0	8.3
7417.366667	52.99	---	74.00	21.01	100.0	V	180.0	8.3
9889.958333	---	40.64	54.00	13.36	100.0	V	94.0	10.7
9893.891667	46.80	---	74.00	27.20	100.0	V	94.0	10.7
12362.550000	53.89	---	74.00	20.11	100.0	V	10.0	14.8
12362.550000	---	46.92	54.00	7.08	100.0	V	10.0	14.8

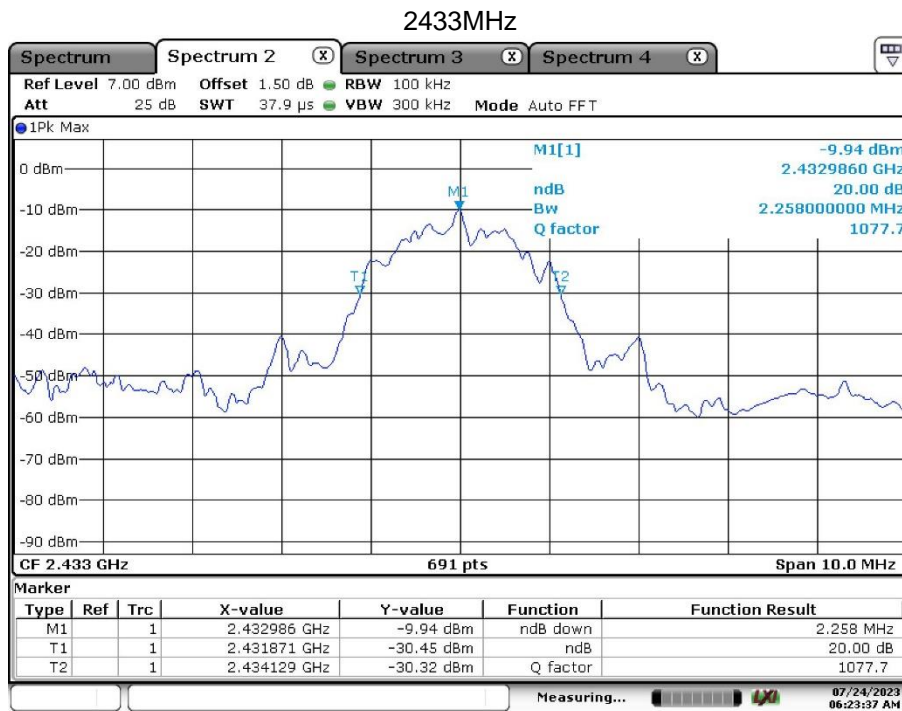
### Final\_Result

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

### Appendix A.2: Test Results of 20dB Bandwidth



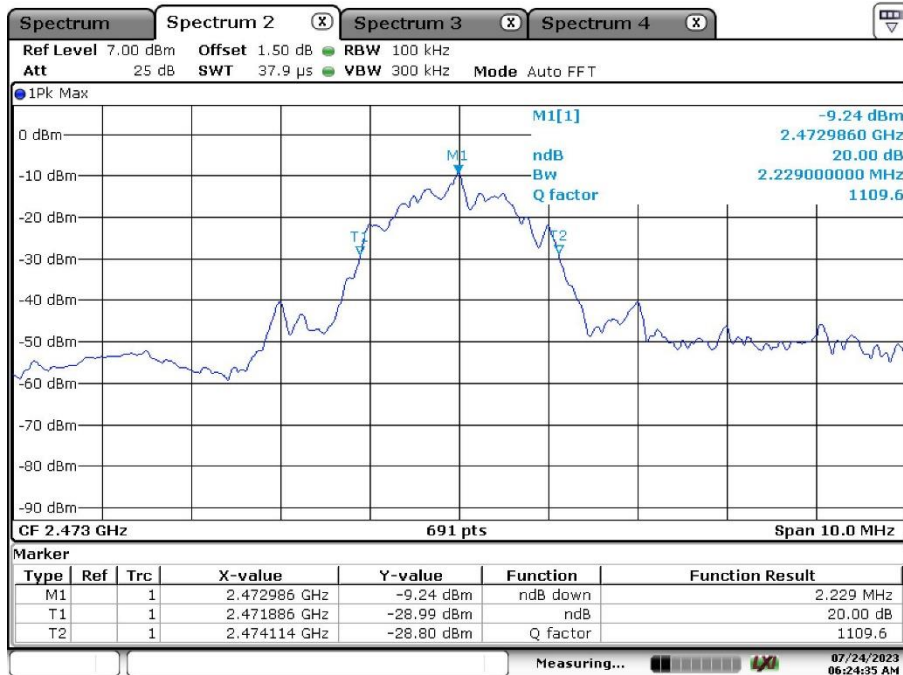
Date: 24.JUL.2023 06:21:12



Date: 24.JUL.2023 06:23:37

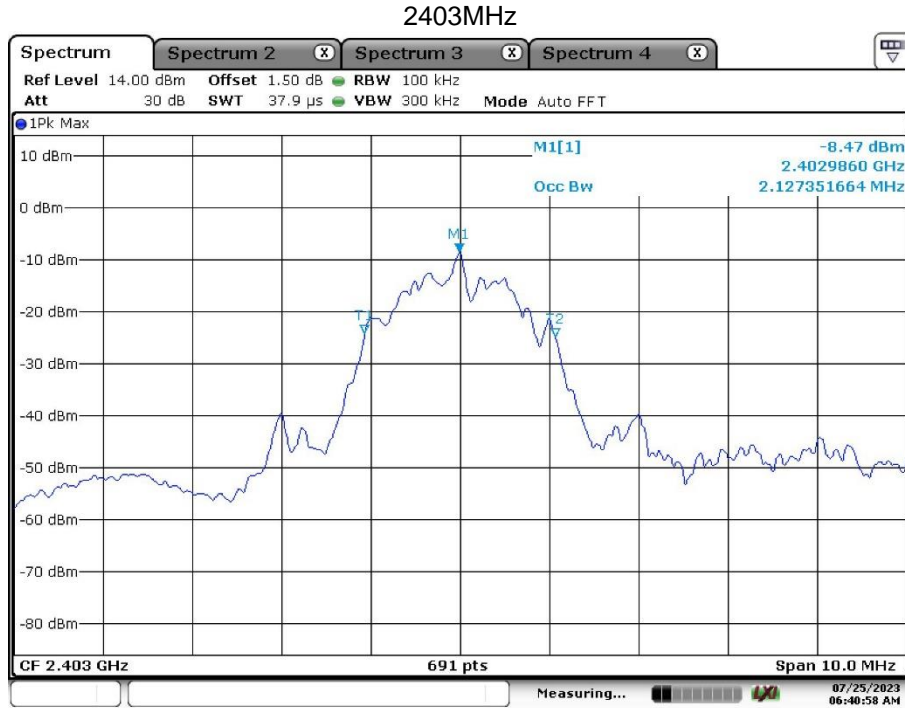


2473MHz

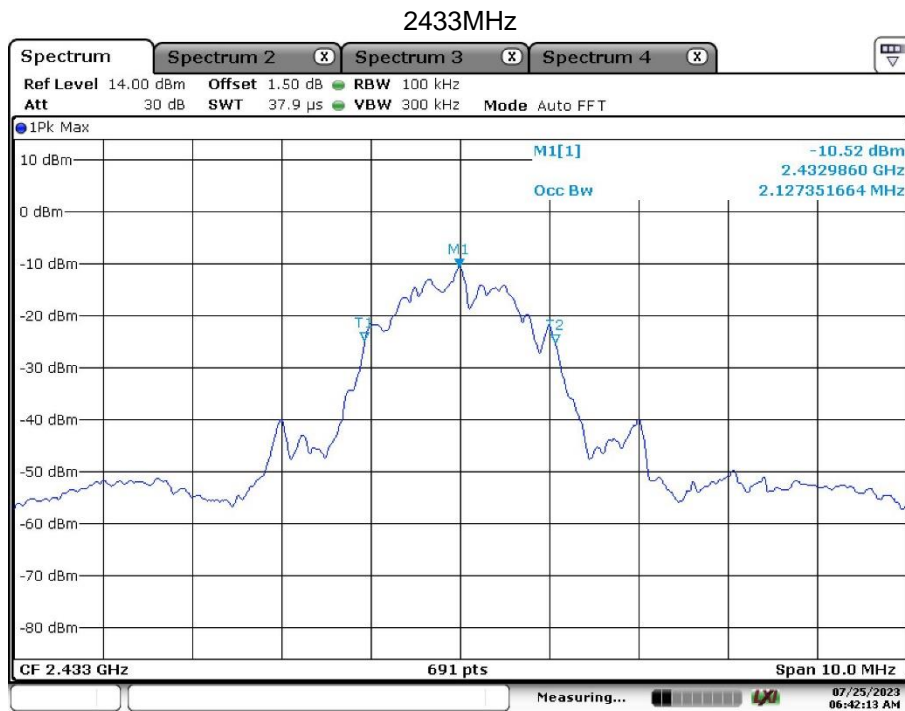


Date: 24.JUL.2023 06:24:36

### Appendix A.3: Test Results of 99% Bandwidth

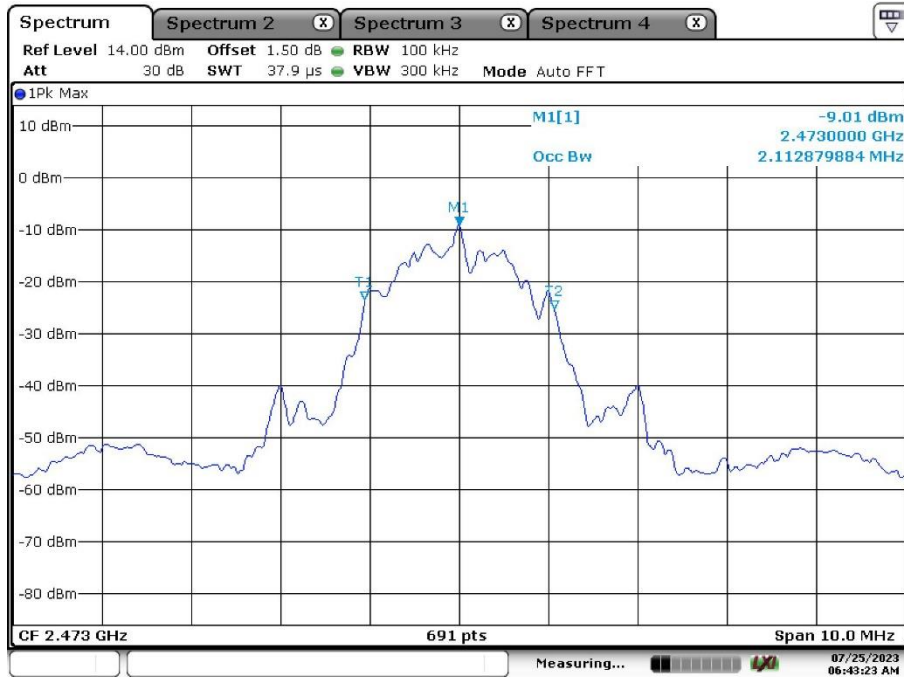


Date: 25.JUL.2023 06:40:58



Date: 25.JUL.2023 06:42:14

2473MHz

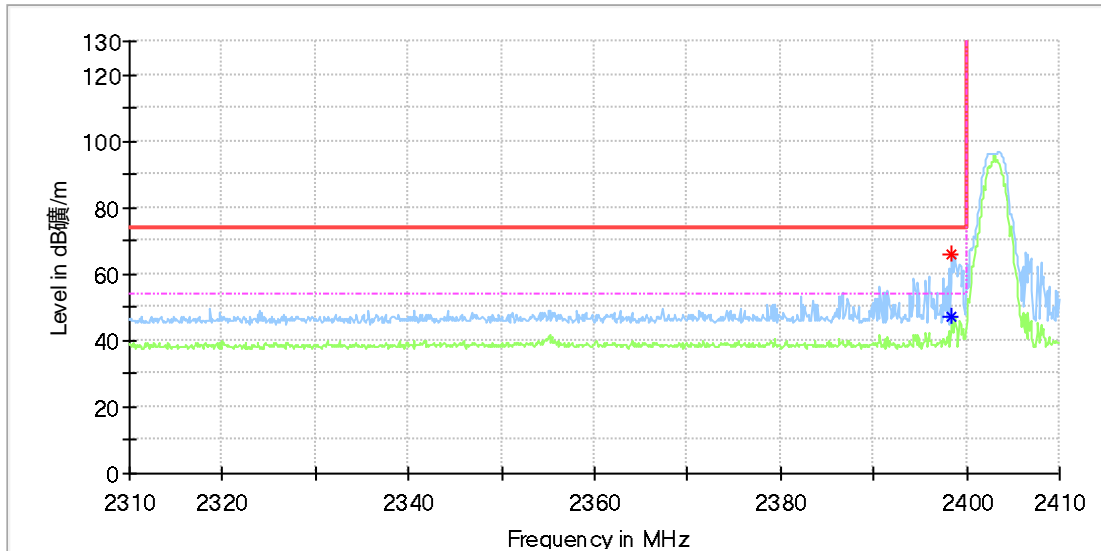


Date: 25.JUL.2023 06:43:23

### Appendix A.4: Test Results of Band Edge

#### EUT Information

EUT Name:	Wireless Mouse
Model:	MA203W
Test Mode:	2.4GHz L CH
Order No/Sample No:	168433502/A003522644-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



#### Critical Freqs

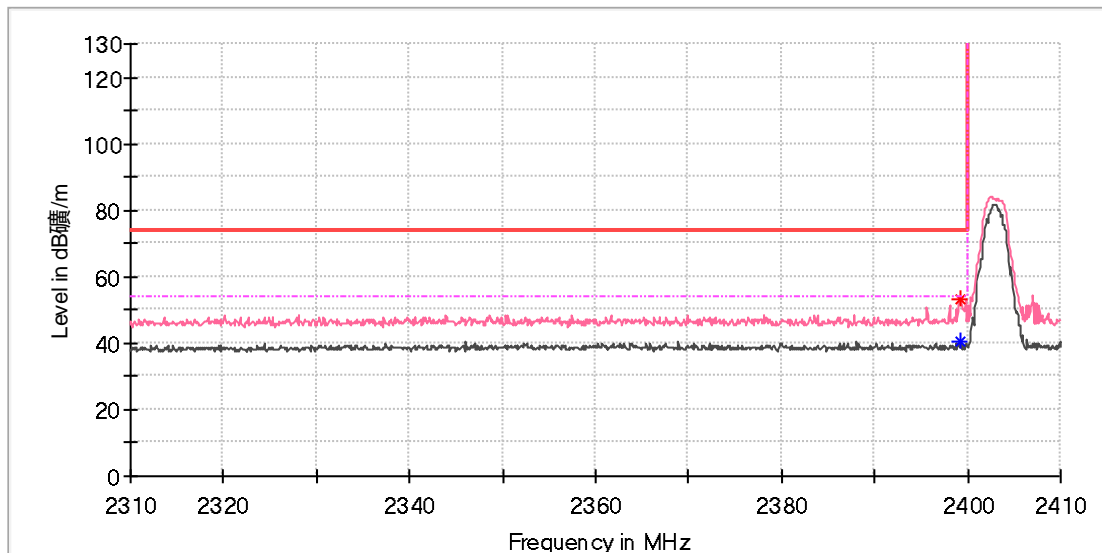
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2398.400000	66.10	---	74.00	7.90	100.0	H	134.0	7.0
2398.400000	---	47.27	54.00	6.73	100.0	H	134.0	7.0

#### Final Result

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

EUT Name: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz L CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

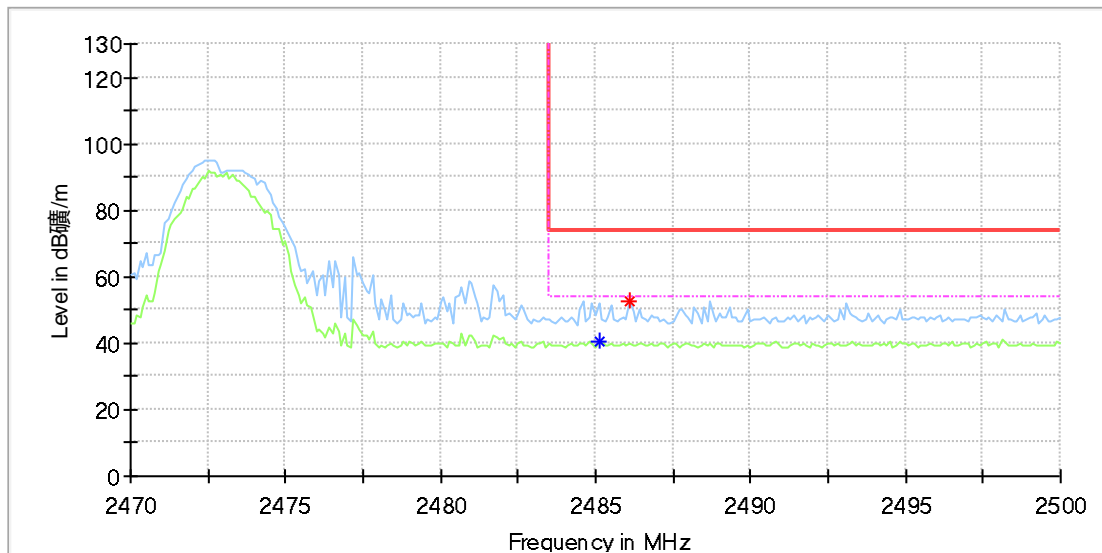
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2399.300000	53.10	---	74.00	20.90	100.0	V	245.0	7.0
2399.300000	---	40.41	54.00	13.59	100.0	V	245.0	7.0

### Final\_Result

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

EUT Name: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz H CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

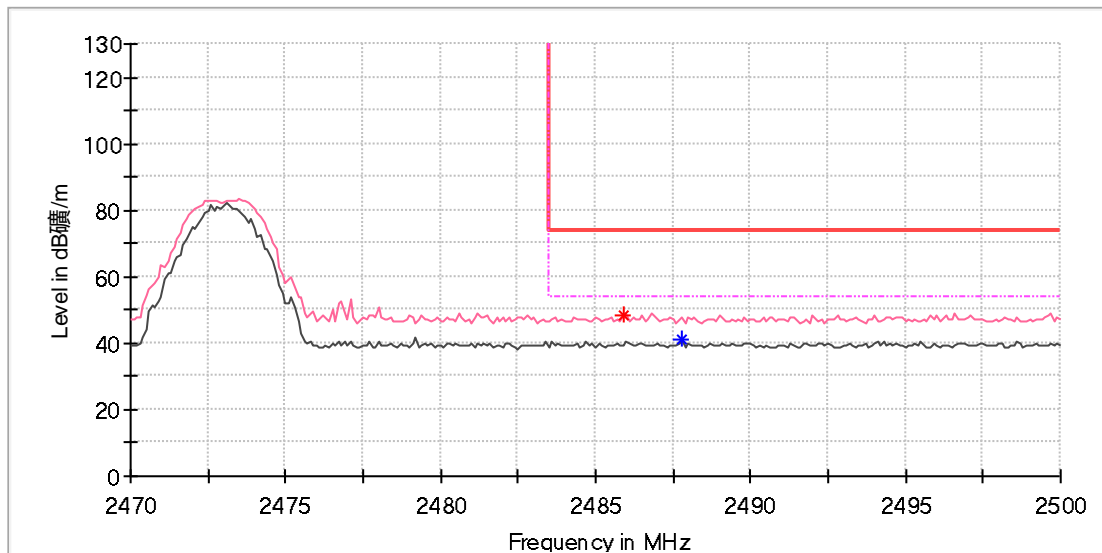
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.100000	---	40.67	54.00	13.33	100.0	H	12.0	7.4
2486.100000	52.74	---	74.00	21.26	100.0	H	132.0	7.4

### Final\_Result

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

EUT Name: Wireless Mouse  
 Model: MA203W  
 Test Mode: 2.4GHz H CH  
 Order No/Sample No: 168433502/A003522644-001  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.249  
 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)
2485.900000	48.64	---	74.00	25.36	100.0	V	269.0	7.4
2487.800000	---	40.93	54.00	13.07	100.0	V	0.0	7.4

### Final Result

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