

Appendix A: Test Results

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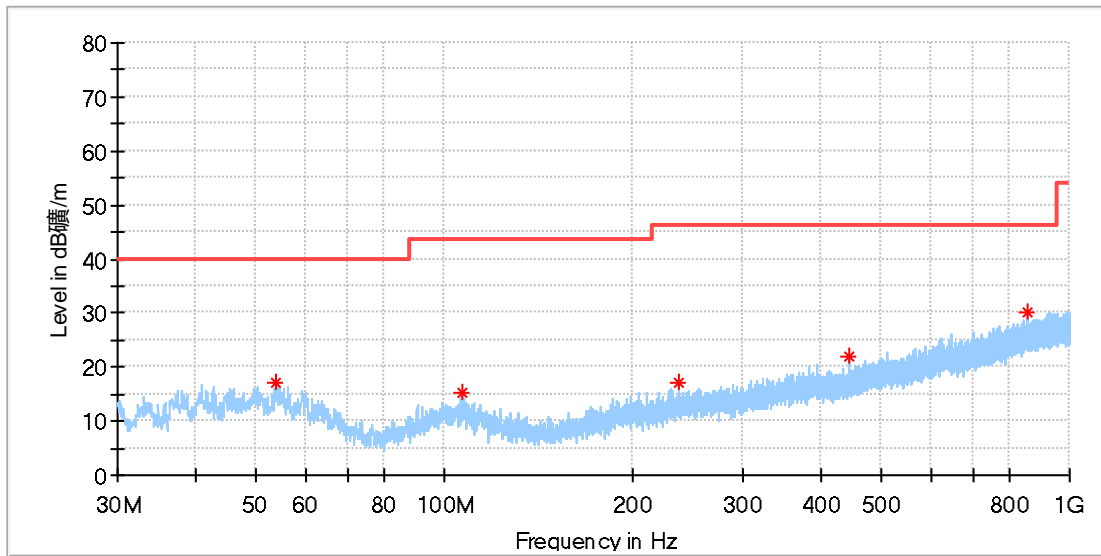
Appendix A.1: Test Results of Field Strength of Fundamental & Harmonics

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 Keyboard
 Model: KB203W
 Test Mode: 2.4GHz M CH
 Order No/Sample No: 168433502/A003510367-004
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

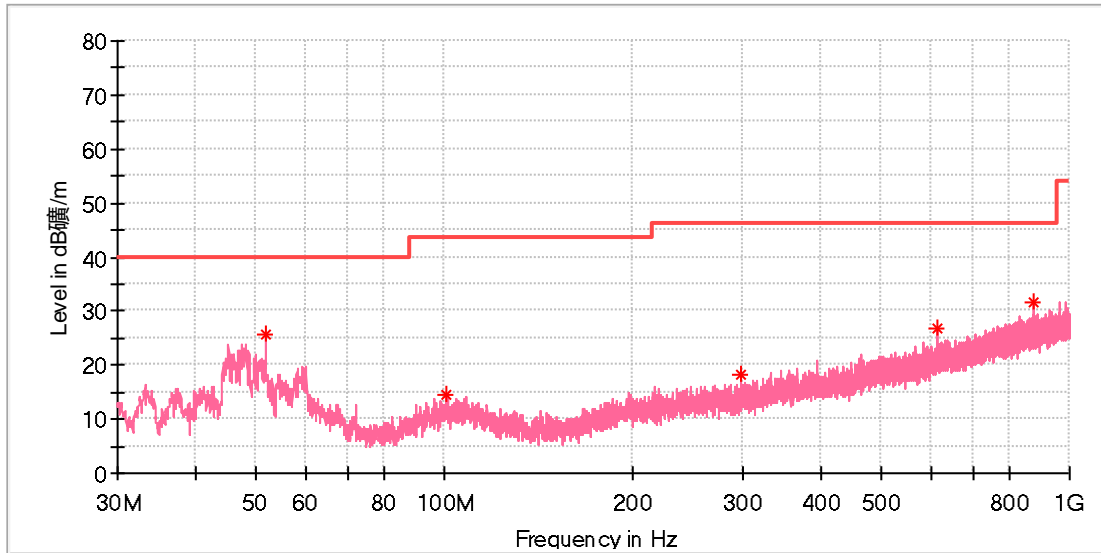
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
53.910500	17.14	40.00	22.86	100.0	H	223.0	-18.4
106.436000	15.26	43.50	28.24	100.0	H	155.0	-18.8
237.095000	17.04	46.00	28.96	100.0	H	7.0	-17.8
443.026000	21.81	46.00	24.19	100.0	H	122.0	-13.1
858.816500	30.27	46.00	15.73	100.0	H	143.0	-5.4

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: Wireless Keyboard
 Model: KB203W
 Test Mode: 2.4GHz M CH
 Order No/Sample No: 168433502/A003510367-004
 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)
51.776500	25.57	40.00	14.43	100.0	V	150.0	-18.4
100.519000	14.58	43.50	28.92	100.0	V	233.0	-19.0
298.835500	18.05	46.00	27.95	100.0	V	177.0	-16.3
612.921500	26.64	46.00	19.36	100.0	V	261.0	-9.6
873.754500	31.71	46.00	14.29	100.0	V	268.0	-5.2

Final Result

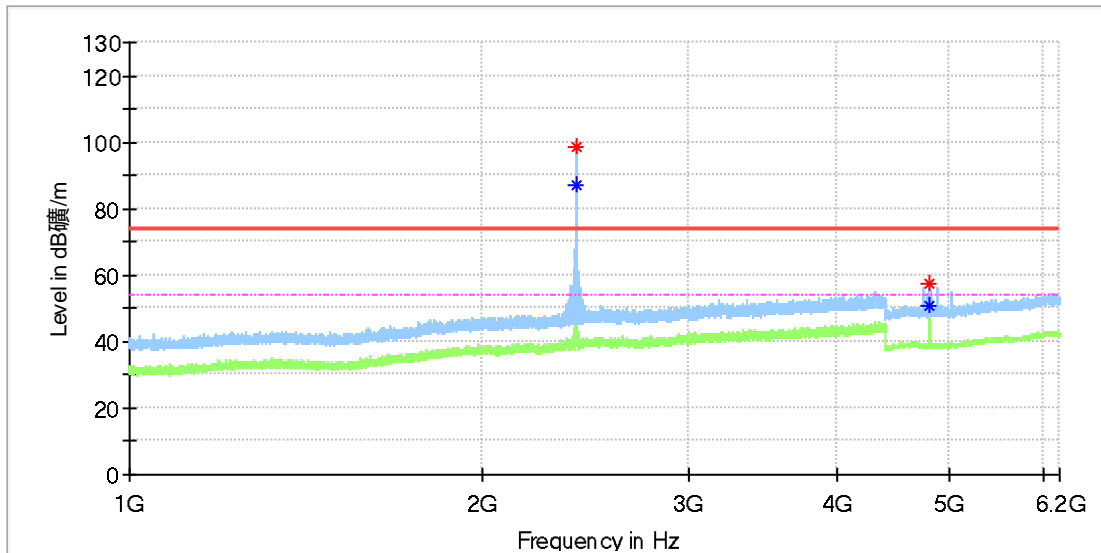
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Wireless Keyboard
Model:	KB203W
Test Mode:	2.4GHz L CH
Order No/Sample No:	168433502/A003510367-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

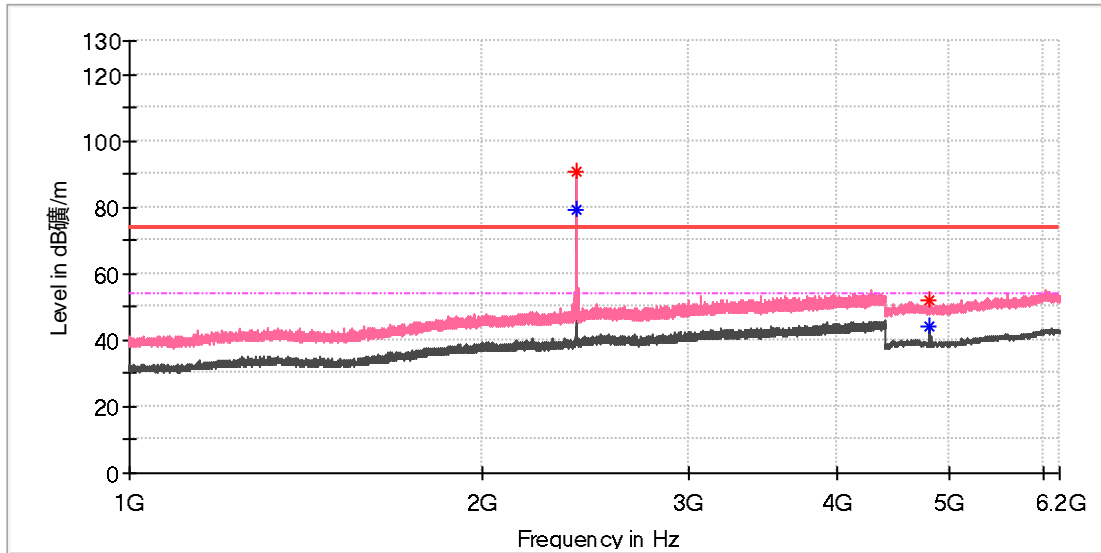
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.650000	---	86.91	94.00	7.09	100.0	H	70.0	7.0
2402.500000	98.57	---	114.00	15.43	100.0	H	70.0	7.0
4803.000000	57.36	---	74.00	16.64	100.0	H	277.0	11.8
4806.000000	---	50.63	54.00	3.37	100.0	H	290.0	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 Keyboard
 Model: KB203W
 Test Mode: 2.4GHz L CH
 Order No/Sample No: 168433502/A003510367-004
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

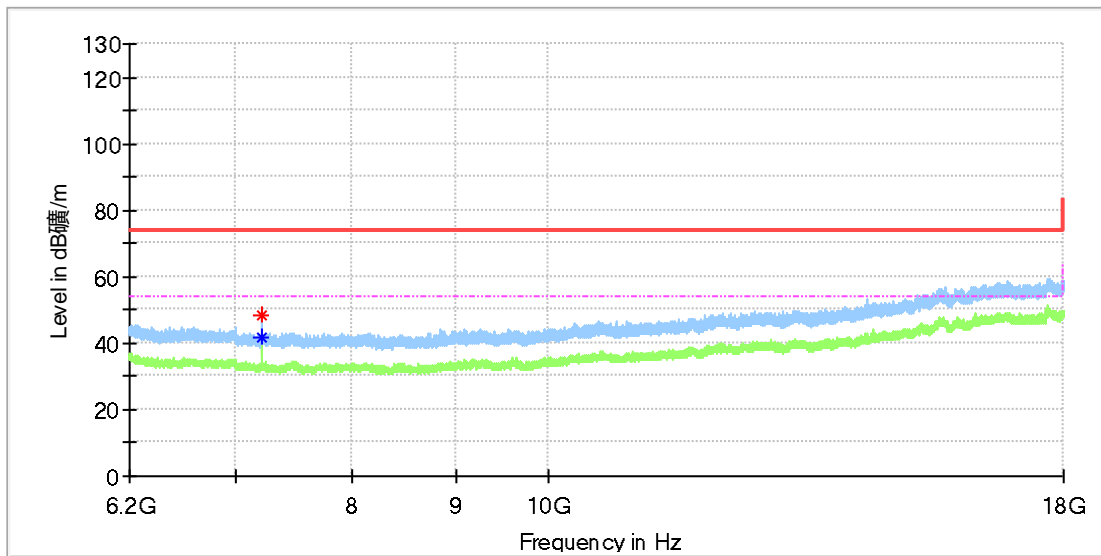
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.500000	90.57	---	114.00	23.43	100.0	V	88.0	7.0
2404.200000	---	79.47	94.00	14.53	100.0	V	94.0	7.0
4806.000000	---	44.06	54.00	9.94	100.0	V	258.0	11.8
4807.000000	52.01	---	74.00	21.99	100.0	V	203.0	11.8

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 Keyboard
Model:	KB203W
Test Mode:	2.4GHz L CH
Order No/Sample No:	168433502/A003510367-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

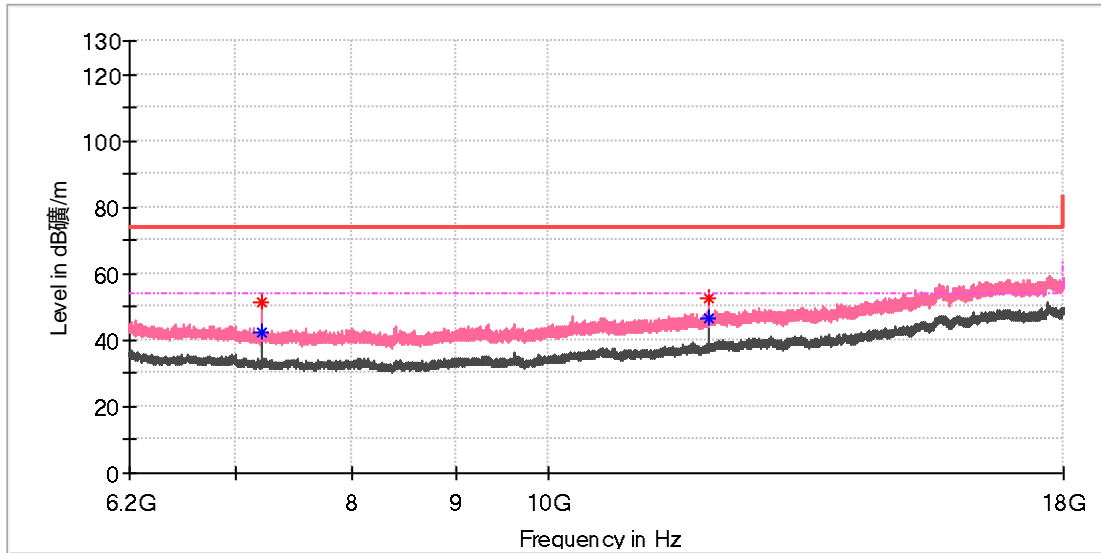
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7209.883333	---	41.69	54.00	12.31	100.0	H	291.0	8.7
7210.375000	48.62	---	74.00	25.38	100.0	H	291.0	8.7

Final_Result

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

EUT Information

EUT Name: Wireless Keyboard
 Model: KB203W
 Test Mode: 2.4GHz L CH
 Order No/Sample No: 168433502/A003510367-004
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

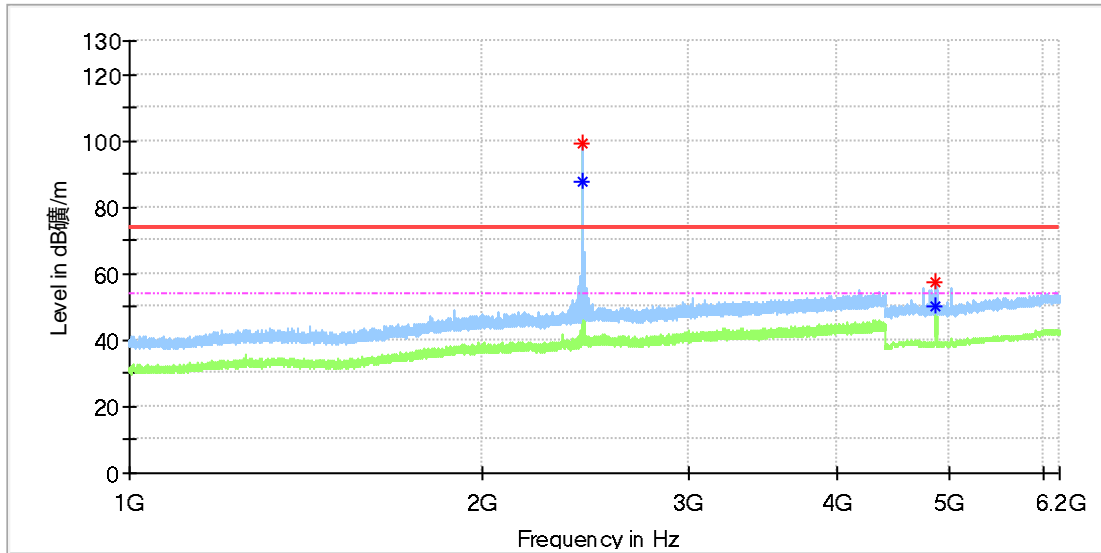
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7206.933333	51.10	---	74.00	22.90	100.0	V	169.0	8.8
7206.933333	---	42.53	54.00	11.47	100.0	V	169.0	8.8
12012.483333	52.65	---	74.00	21.35	100.0	V	146.0	14.0
12012.483333	---	46.33	54.00	7.67	100.0	V	146.0	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 Keyboard
 Model: KB203W
 Test Mode: 2.4GHz M CH
 Order No/Sample No: 168433502/A003510367-004
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

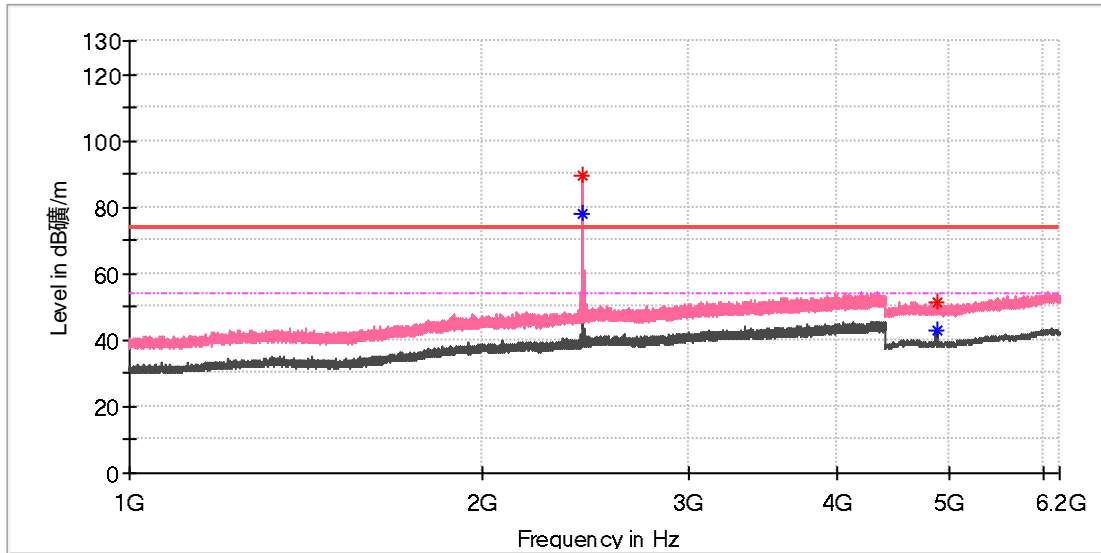
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2432.590000	99.10	---	114.00	14.90	100.0	H	0.0	7.3
2434.120000	---	87.57	94.00	6.43	100.0	H	0.0	7.3
4865.000000	---	50.24	54.00	3.76	100.0	H	37.0	11.8
4866.000000	57.50	---	74.00	16.50	100.0	H	229.0	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 Keyboard
 Model: KB203W
 Test Mode: 2.4GHz M CH
 Order No/Sample No: 168433502/A003510367-004
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249
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Critical Freqs

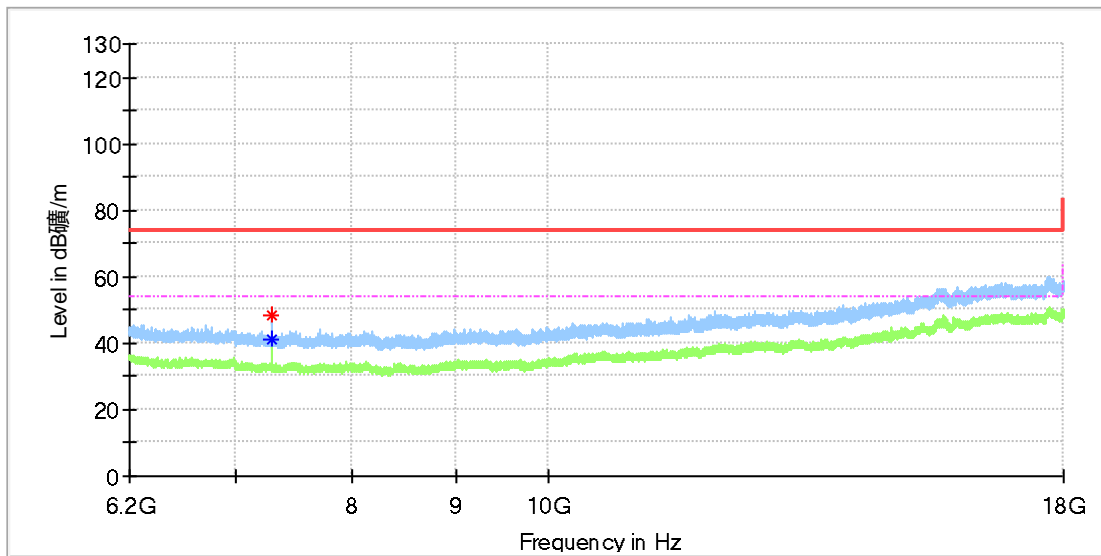
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2432.080000	---	78.10	94.00	15.90	100.0	V	118.0	7.3
2432.590000	89.75	---	114.00	24.25	100.0	V	89.0	7.3
4869.500000	51.49	---	74.00	22.51	100.0	V	269.0	11.8
4869.500000	---	42.72	54.00	11.28	100.0	V	269.0	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 Keyboard
Model:	KB203W
Test Mode:	2.4GHz M CH
Order No/Sample No:	168433502/A003510367-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

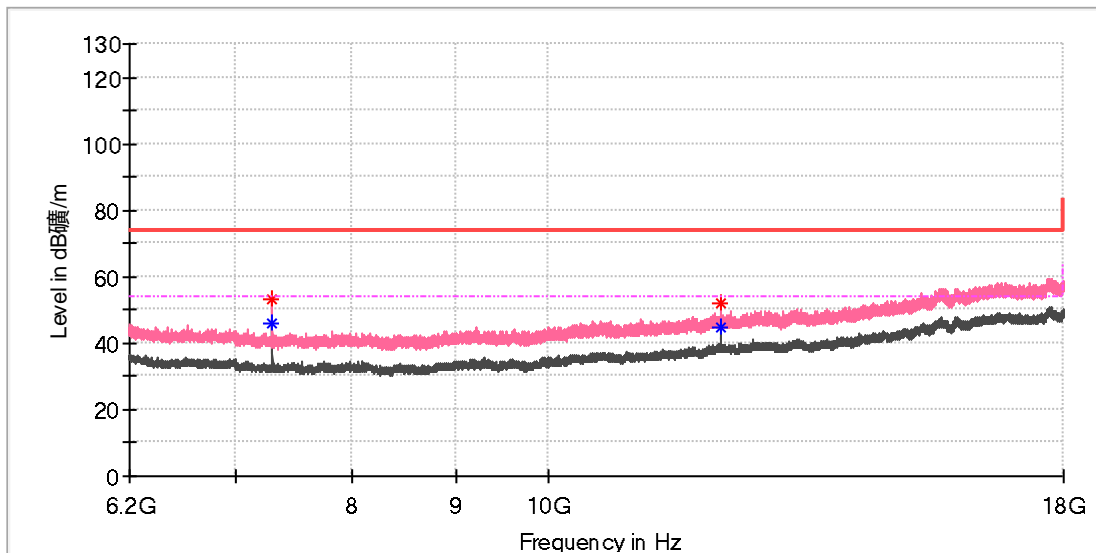
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7298.383333	---	41.37	54.00	12.63	100.0	H	11.0	8.3
7300.350000	48.29	---	74.00	25.71	100.0	H	11.0	8.3

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 Keyboard
 Model: KB203W
 Test Mode: 2.4GHz M CH
 Order No/Sample No: 168433502/A003510367-004
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

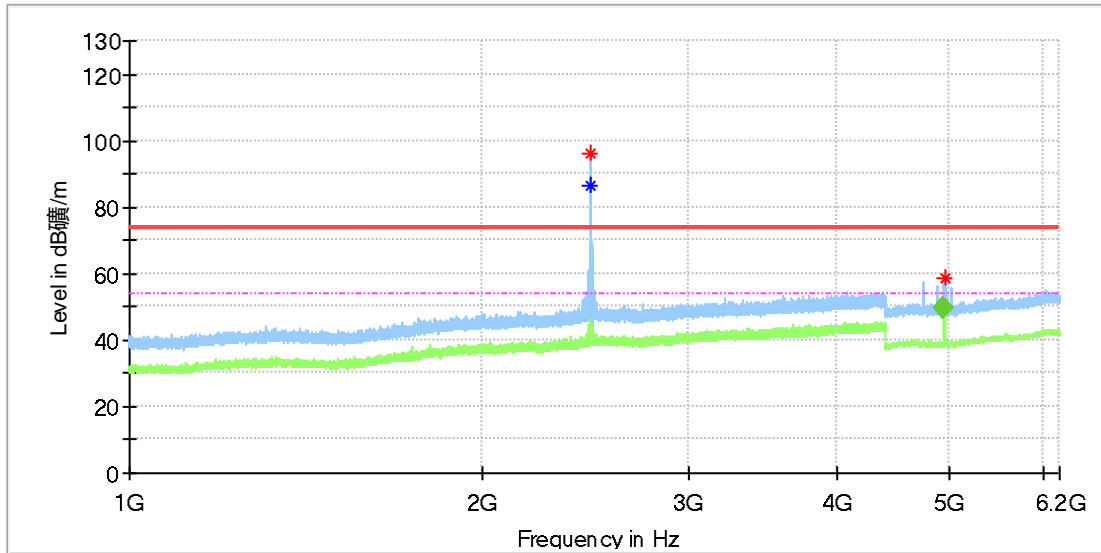
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7297.400000	53.28	---	74.00	20.72	100.0	V	166.0	8.3
7297.400000	---	45.88	54.00	8.12	100.0	V	166.0	8.3
12167.358333	51.86	---	74.00	22.14	100.0	V	179.0	14.5
12167.358333	---	44.86	54.00	9.14	100.0	V	179.0	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 Keyboard
 Model: KB203W
 Test Mode: 2.4GHz H CH
 Order No/Sample No: 168433502/A003510367-004
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

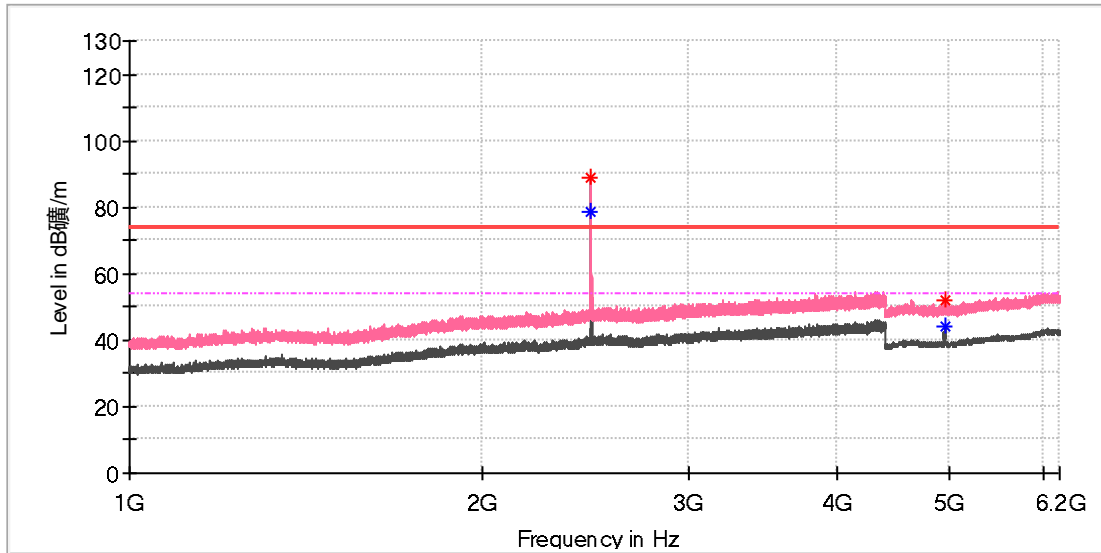
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2472.540000	96.16	---	114.00	17.84	100.0	H	0.0	7.4
2474.070000	---	86.51	94.00	7.49	100.0	H	83.0	7.4
4946.500000	58.41	---	74.00	15.59	100.0	H	231.0	11.8

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4944.933333	49.51	54.00	4.49	100.0	H	229.0	11.8

EUT Information

EUT Name: Wireless Keyboard
 Model: KB203W
 Test Mode: 2.4GHz H CH
 Order No/Sample No: 168433502/A003510367-004
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

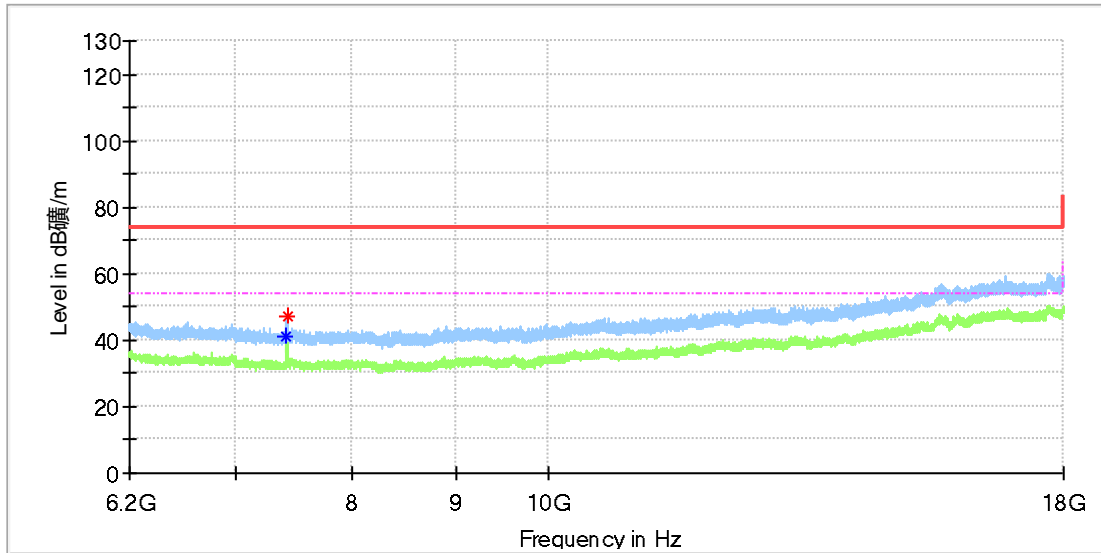
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2472.030000	---	78.48	94.00	15.52	100.0	V	97.0	7.4
2473.390000	89.08	---	114.00	24.92	100.0	V	88.0	7.4
4946.500000	52.26	---	74.00	21.74	100.0	V	92.0	11.8
4947.000000	---	44.04	54.00	9.96	100.0	V	92.0	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 Keyboard
Model:	KB203W
Test Mode:	2.4GHz H CH
Order No/Sample No:	168433502/A003510367-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

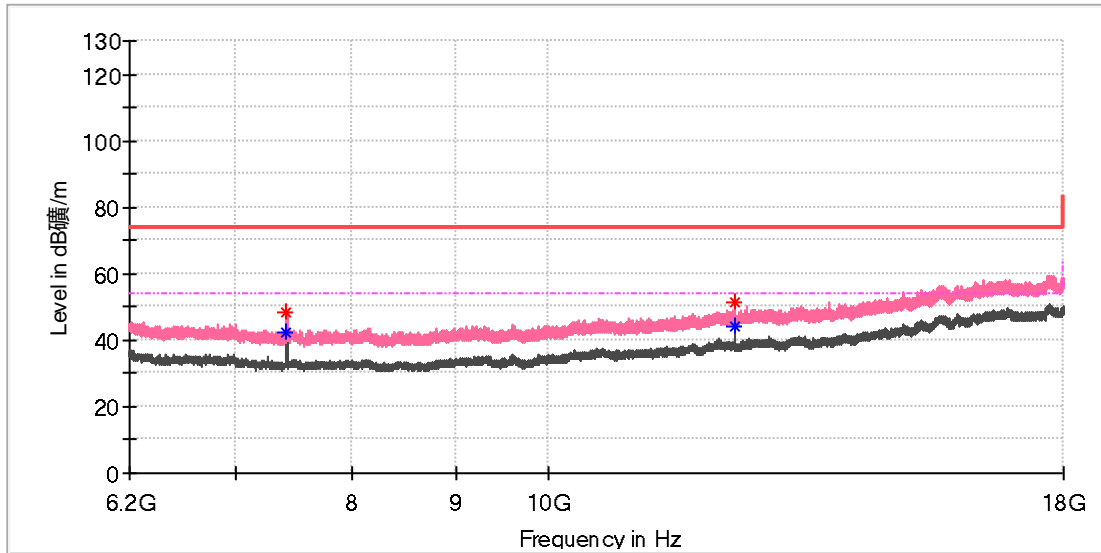
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7417.858333	---	41.02	54.00	12.98	100.0	H	182.0	8.3
7420.316667	47.44	---	74.00	26.56	100.0	H	194.0	8.4

Final_Result

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

EUT Information

EUT Name: Wireless Keyboard
 Model: KB203W
 Test Mode: 2.4GHz H CH
 Order No/Sample No: 168433502/A003510367-004
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



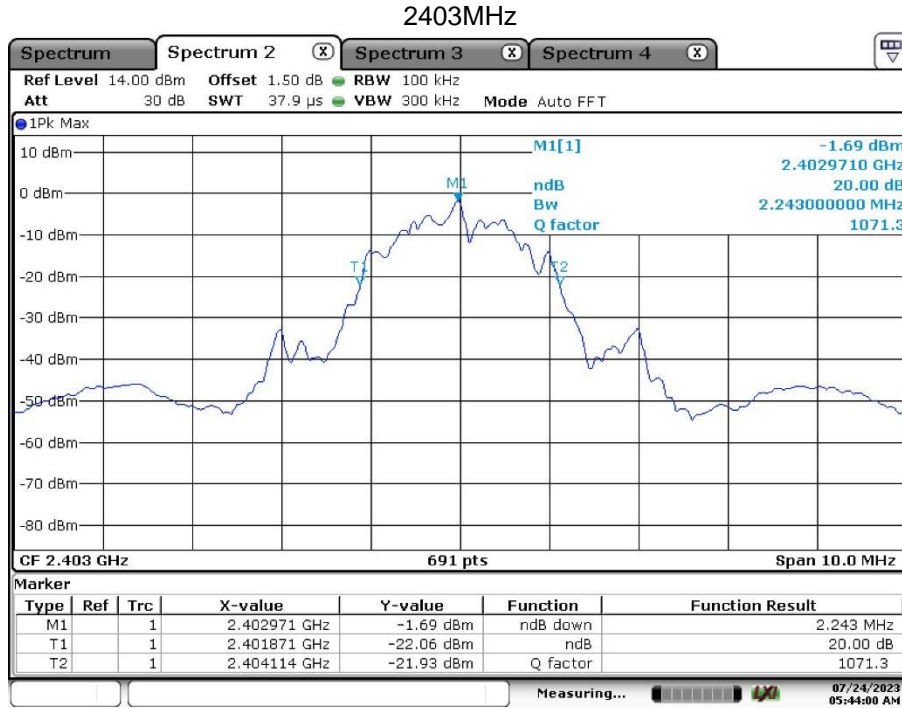
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7417.366667	48.64	---	74.00	25.36	100.0	V	314.0	8.3
7417.366667	---	42.41	54.00	11.59	100.0	V	314.0	8.3
12362.058333	51.40	---	74.00	22.60	100.0	V	180.0	14.8
12362.550000	---	43.85	54.00	10.15	100.0	V	180.0	14.8

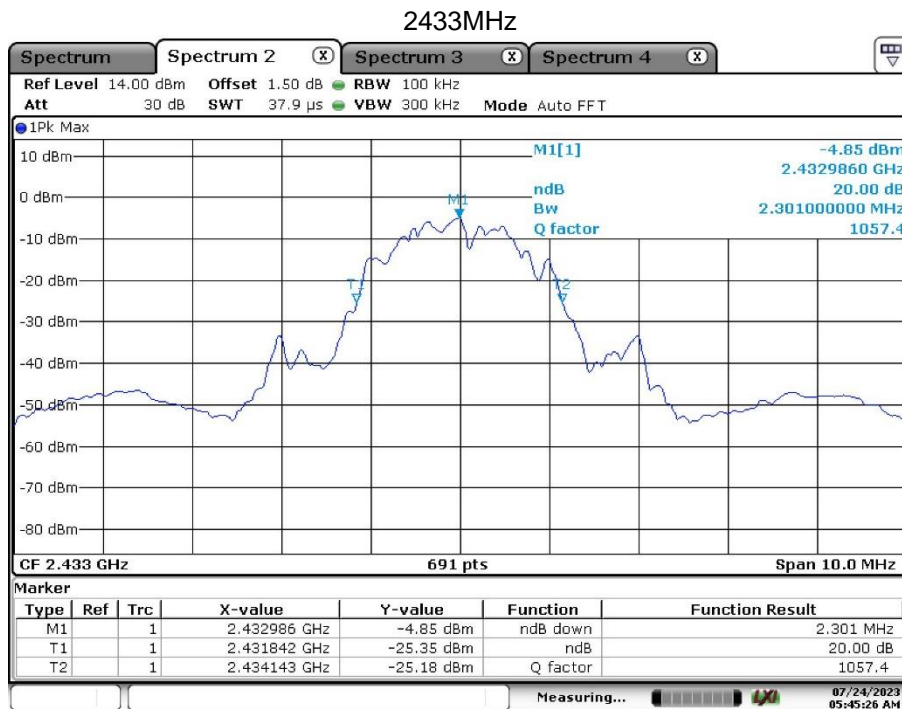
Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.2: Test Results of 20dB Bandwidth

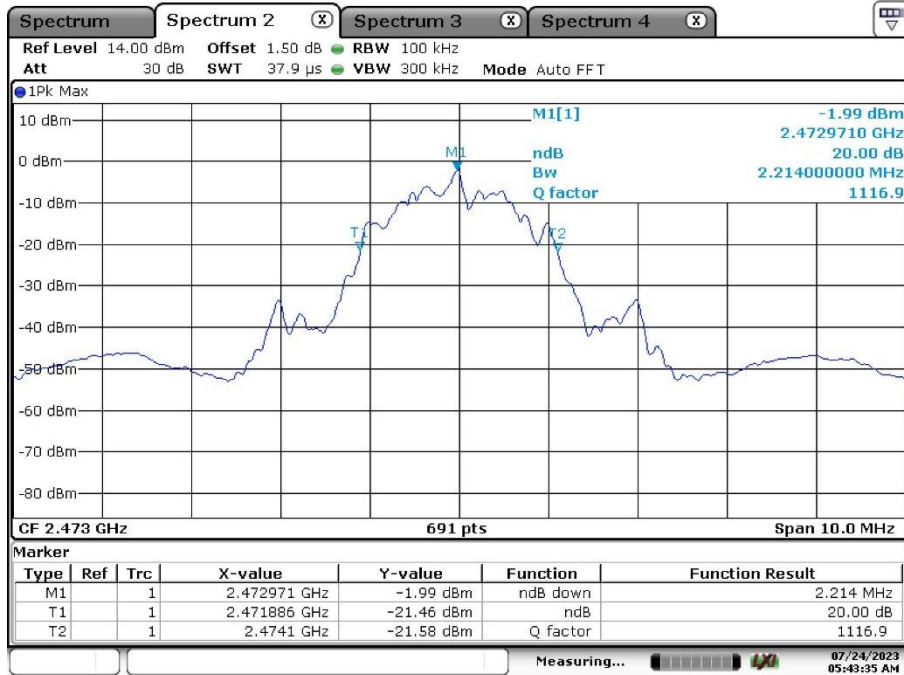


Date: 24.JUL.2023 05:44:00



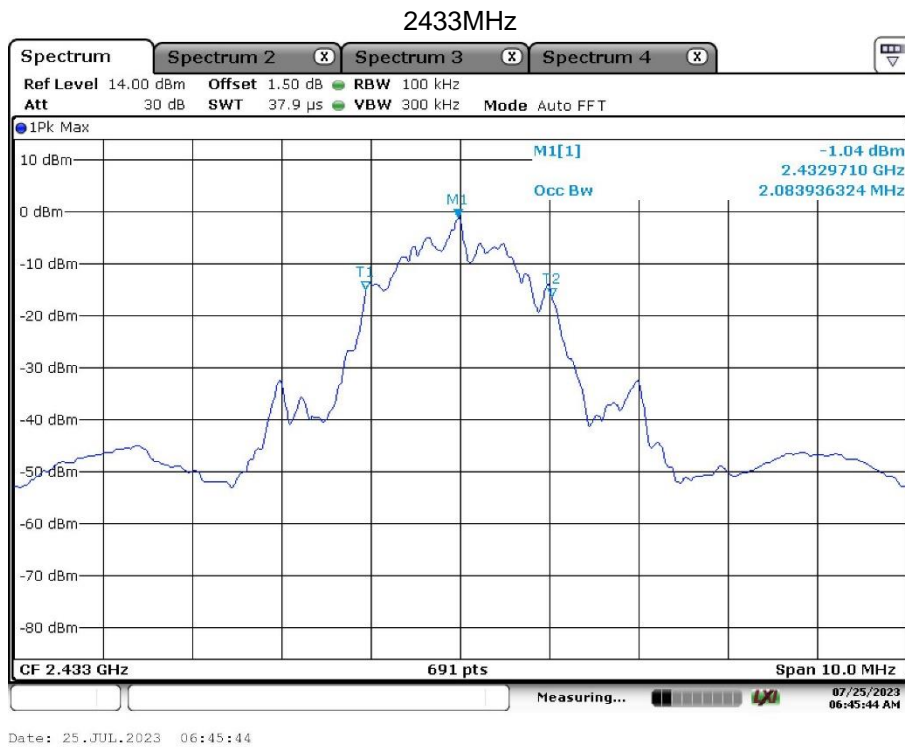
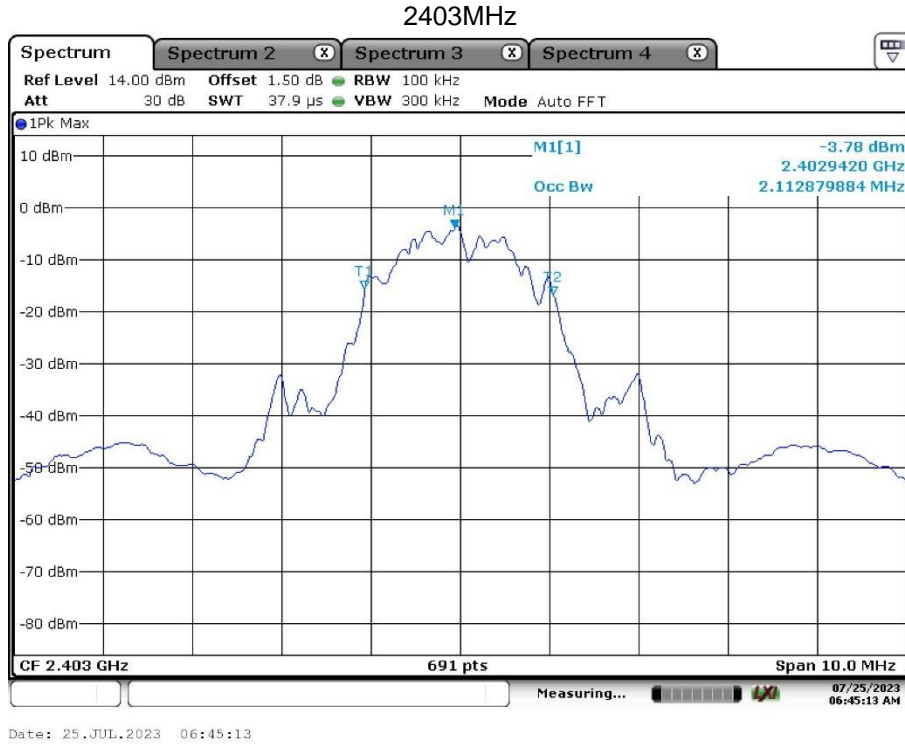
Date: 24.JUL.2023 05:45:26

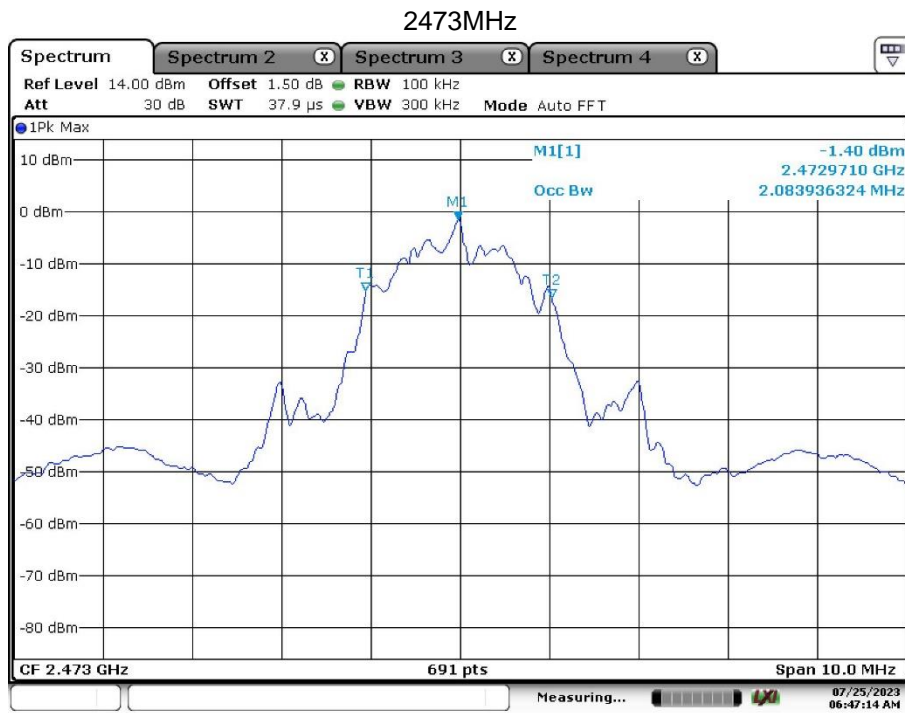
2473MHz



Date: 24.JUL.2023 05:43:35

Appendix A.3: Test Results of 99% Bandwidth



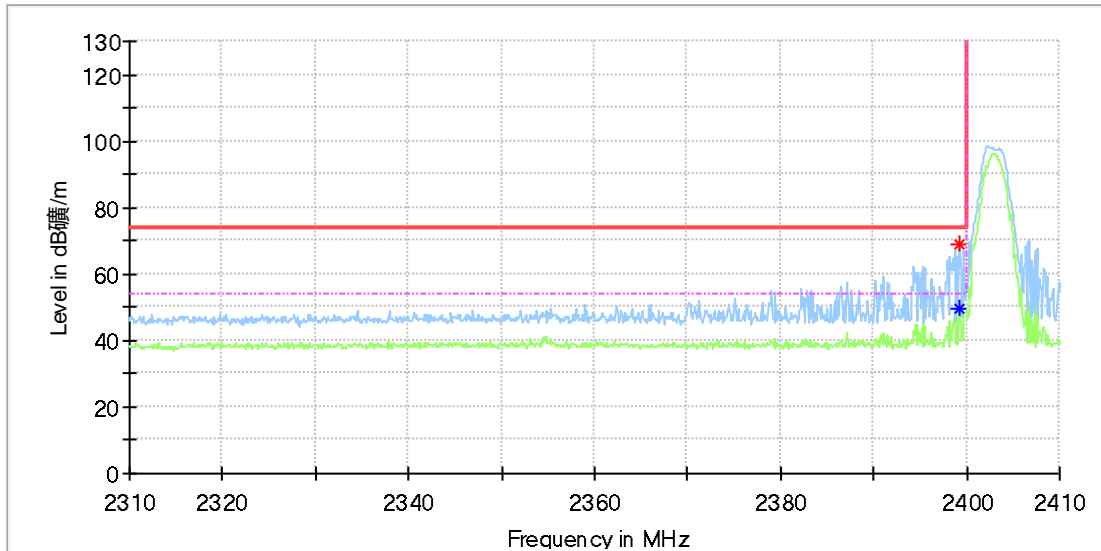


Date: 25.JUL.2023 06:47:14

Appendix A.4: Test Results of Band Edge

EUT Information

EUT Name:	Wireless Keyboard
Model:	KB203W
Test Mode:	2.4GHz L CH
Order No/Sample No:	168433502/A003510367-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

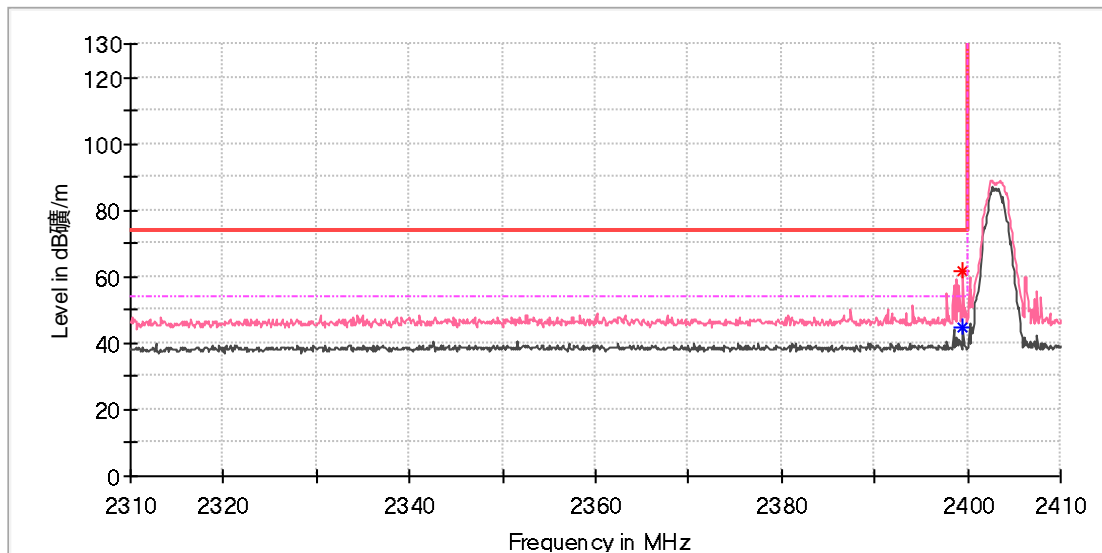
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2399.200000	---	49.63	54.00	4.37	100.0	H	82.0	7.0
2399.200000	69.00	---	74.00	5.00	100.0	H	82.0	7.0

Final Result

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

EUT Information

EUT Name: Wireless Keyboard
 Model: KB203W
 Test Mode: 2.4GHz L CH
 Order No/Sample No: 168433502/A003510367-004
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

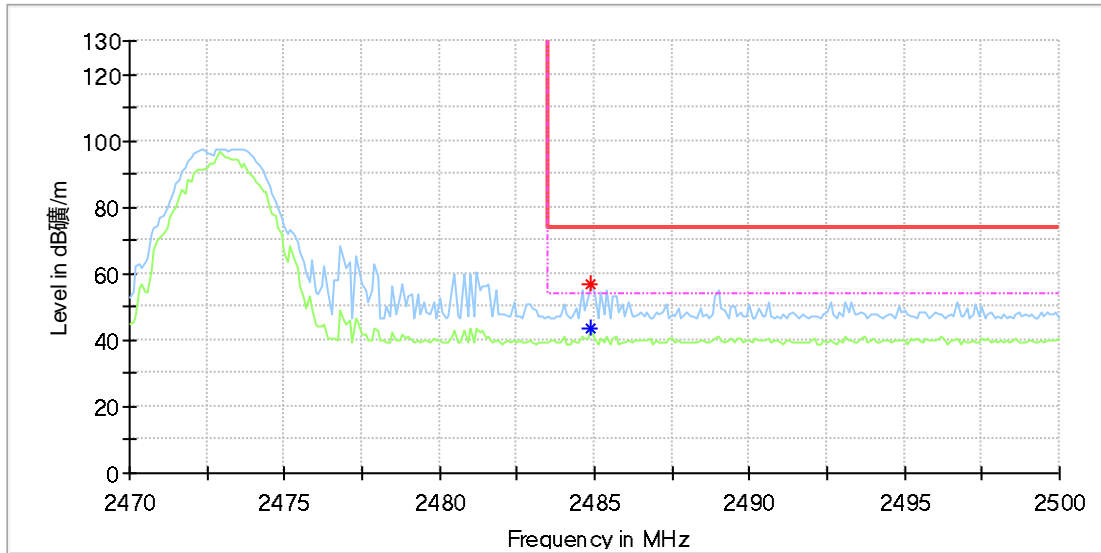
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2399.500000	61.55	---	74.00	12.45	100.0	V	83.0	7.0
2399.500000	---	44.74	54.00	9.26	100.0	V	83.0	7.0

Final_Result

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

EUT Information

EUT Name: Wireless Keyboard
 Model: KB203W
 Test Mode: 2.4GHz H CH
 Order No/Sample No: 168433502/A003510367-004
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

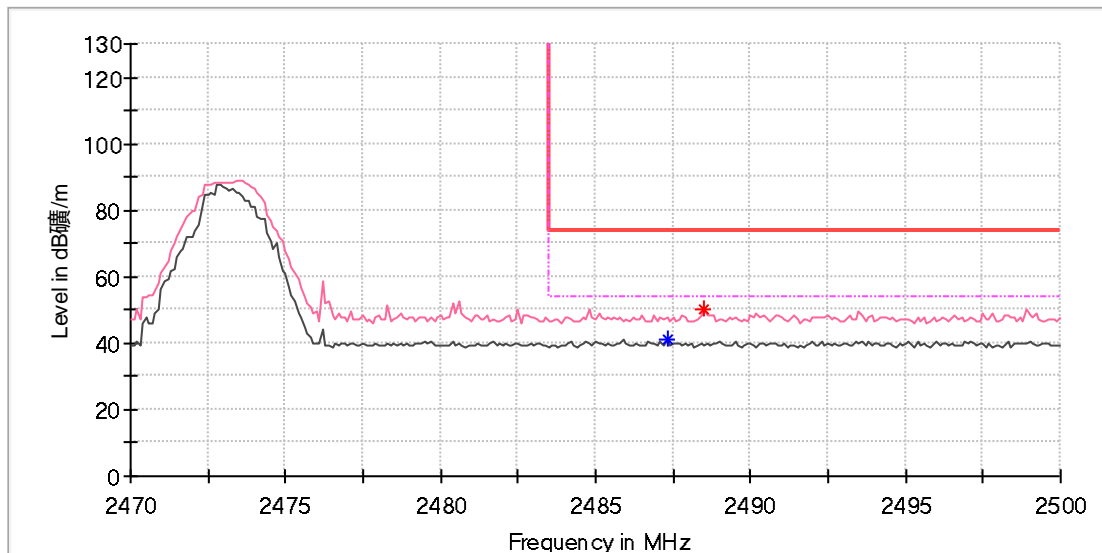
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.900000	---	43.40	54.00	10.60	100.0	H	55.0	7.4
2484.900000	57.13	---	74.00	16.87	100.0	H	55.0	7.4

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 Keyboard
 Model: KB203W
 Test Mode: 2.4GHz H CH
 Order No/Sample No: 168433502/A003510367-004
 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)
2487.300000	---	40.92	54.00	13.08	100.0	V	275.0	7.4
2488.500000	50.15	---	74.00	23.85	100.0	V	140.0	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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