

Appendix B: Test Results

APPENDIX B: TEST RESULTS.....	1
APPENDIX B.1: TEST RESULTS OF FIELD STRENGTH OF FUNDAMENTAL & HARMONICS	2
30MHz - 1GHz	2
1GHz - 18GHz	6
APPENDIX B.2: TEST RESULTS OF 20dB BANDWIDTH	18
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH	20
APPENDIX B.4: TEST RESULTS OF BAND EDGE	22

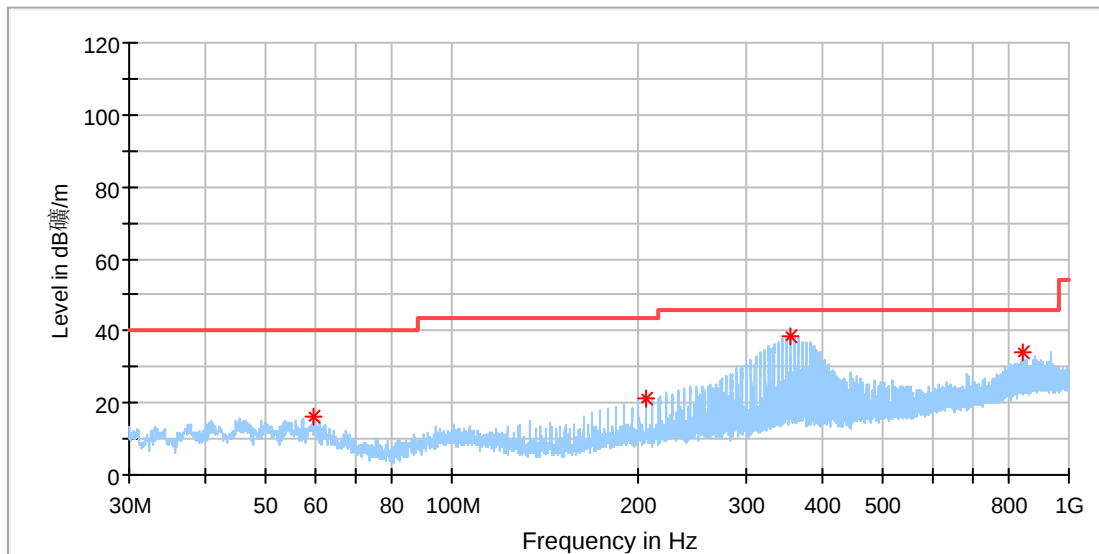
Note: The testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz to 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.1: Test Results of Field strength of fundamental & harmonics

30MHz - 1GHz

EUT Information

EUT Name:	Keyboard
Model:	KB317W
Test Mode:	2.4GHz Low CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

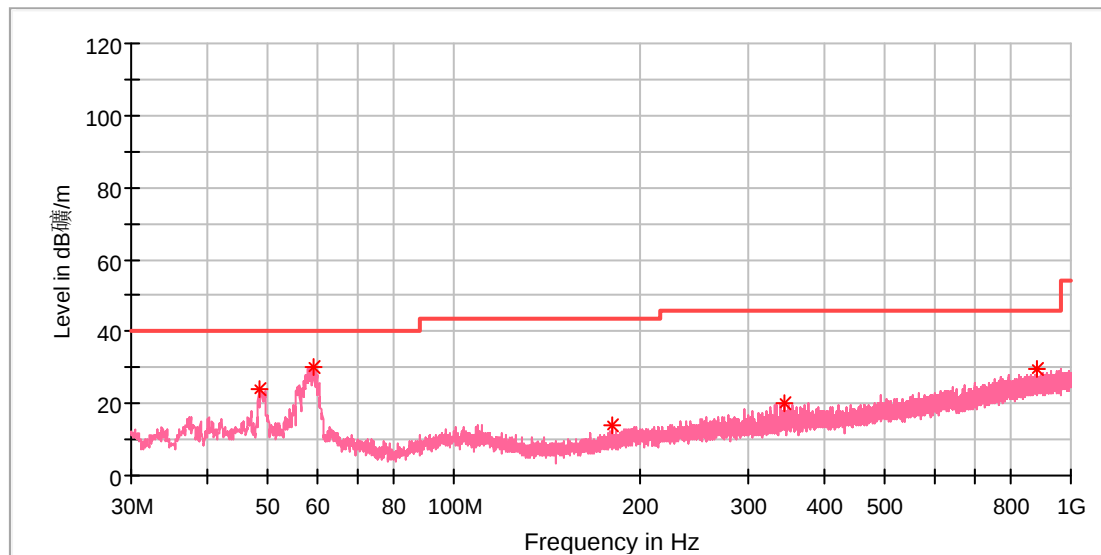


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.730500	16.30	40.00	23.70	100.0	H	54.0	-18.9
206.443000	21.01	43.50	22.49	100.0	H	0.0	-18.9
353.640500	38.55	46.00	7.45	100.0	H	0.0	-14.7
840.677500	34.07	46.00	11.93	100.0	H	116.0	-5.7

EUT Information

EUT Name: Keyboard
Model: KB317W
Test Mode: 2.4GHz Low CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

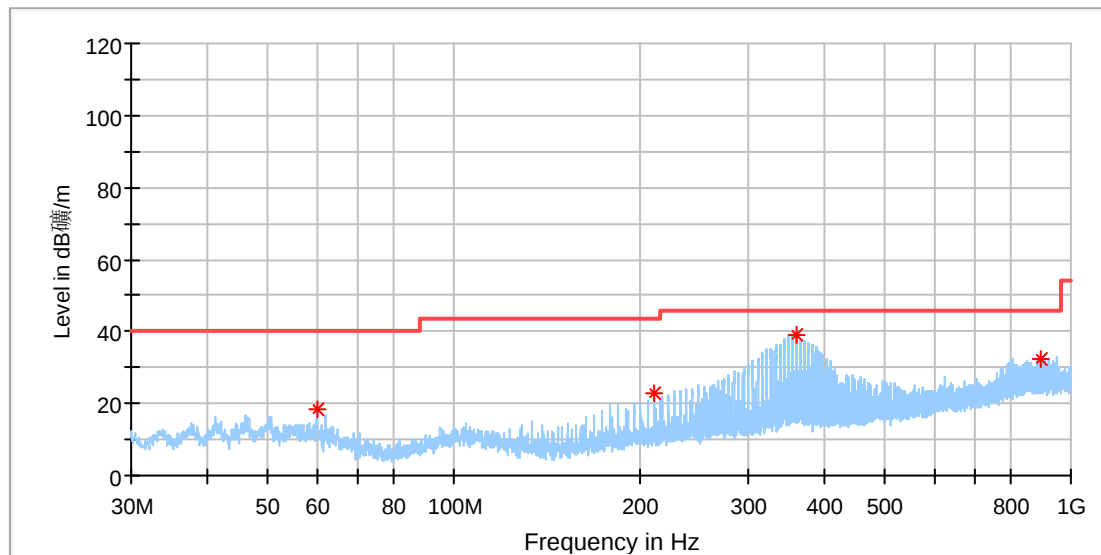


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.284500	23.87	40.00	16.13	100.0	V	290.0	-18.4
59.342500	30.24	40.00	9.76	100.0	V	38.0	-18.9
180.156000	13.85	43.50	29.65	100.0	V	359.0	-20.5
342.631000	20.22	46.00	25.78	100.0	V	127.0	-14.9
878.119500	29.46	46.00	16.54	100.0	V	73.0	-5.2

EUT Information

EUT Name: Keyboard
Model: KB317W
Test Mode: 2.4GHz High CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

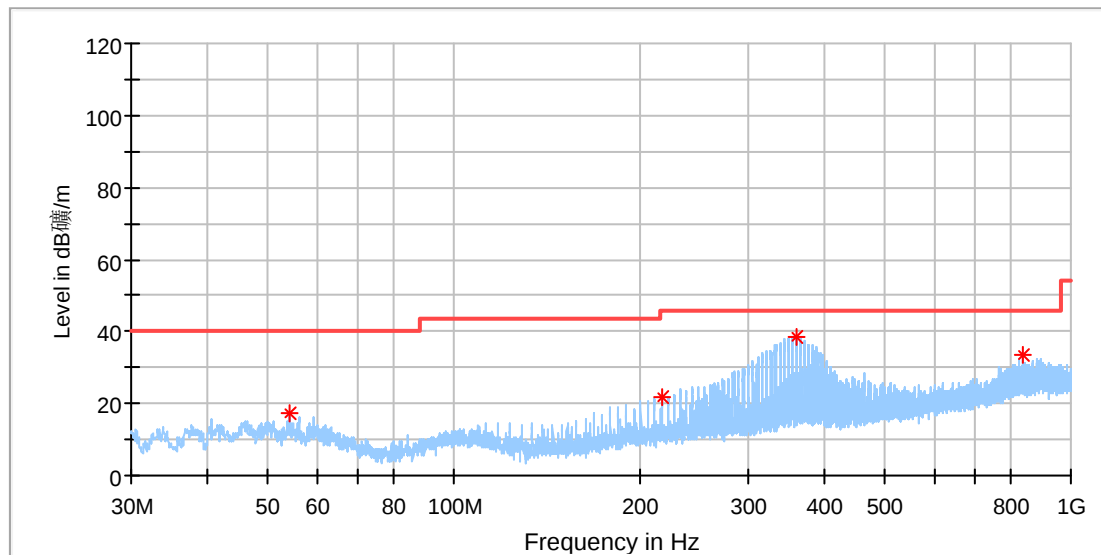


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.973000	18.64	40.00	21.36	100.0	H	49.0	-19.0
211.487000	22.62	43.50	20.88	100.0	H	0.0	-18.9
359.024000	38.90	46.00	7.10	100.0	H	0.0	-14.7
894.852000	32.61	46.00	13.39	100.0	H	122.0	-5.0

EUT Information

EUT Name: Keyboard
Model: KB317W
Test Mode: 2.4GHz High CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

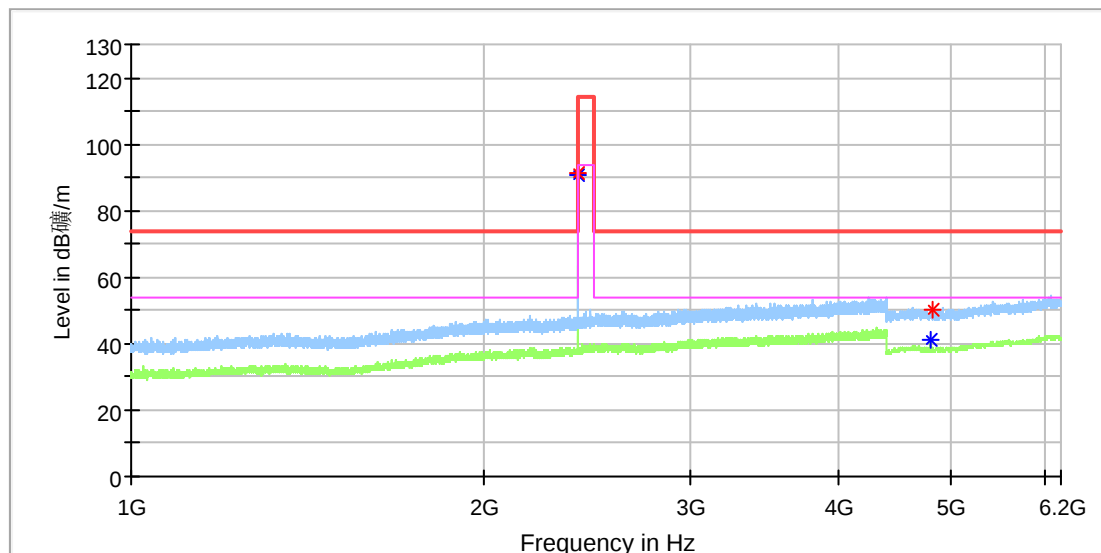
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
54.250000	17.21	40.00	22.79	100.0	H	49.0	-18.4
217.113000	21.60	46.00	24.40	100.0	H	1.0	-18.7
358.878500	38.75	46.00	7.25	100.0	H	347.0	-14.7
835.245500	33.53	46.00	12.47	100.0	H	121.0	-5.7

1GHz - 18GHz

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

EUT Information

EUT Name:	Keyboard
Model:	KB317W
Test Mode:	2.4GHz Low CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

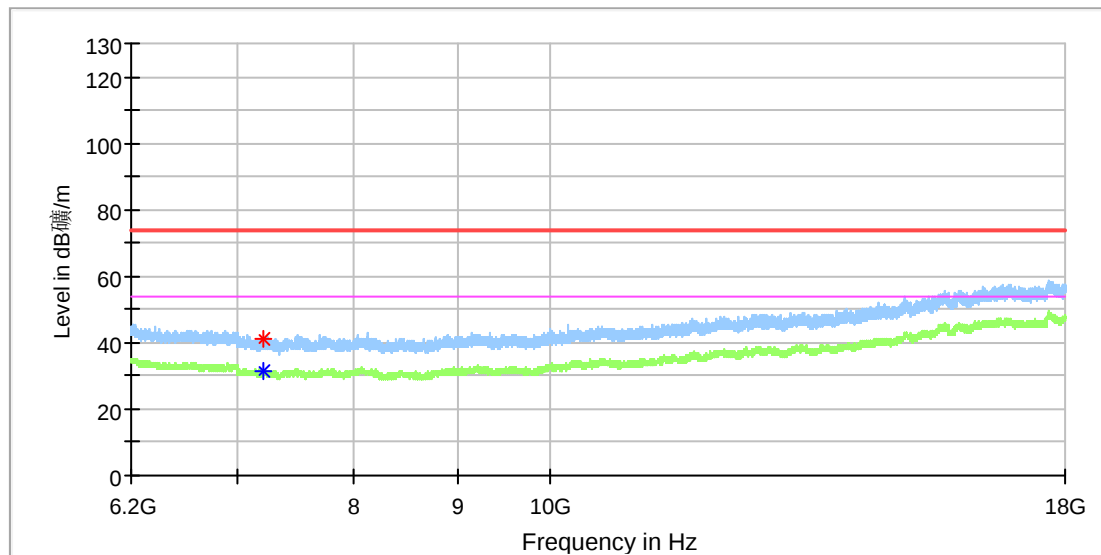


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.330000	---	90.74	94.00	3.26	100.0	H	355.0	7.0
2402.500000	91.13	---	114.00	22.87	100.0	H	355.0	7.0
4805.000000	---	41.10	54.00	12.90	100.0	H	122.0	11.8
4814.000000	50.03	---	74.00	23.97	100.0	H	341.0	11.8

EUT Information

EUT Name: Keyboard
Model: KB317W
Test Mode: 2.4GHz Low CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

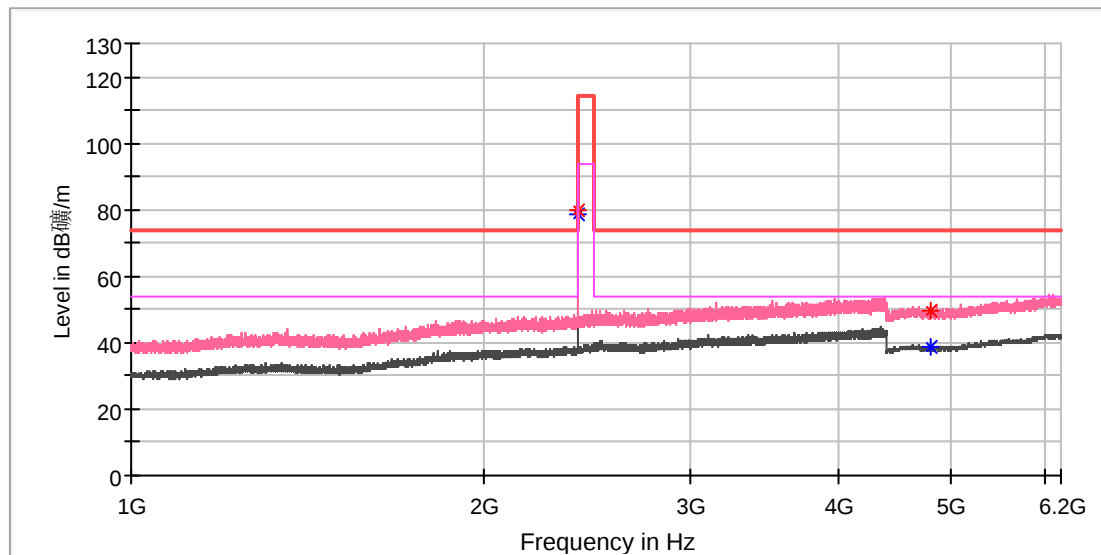


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7212.341667	40.81	---	74.00	33.19	100.0	H	1.0	8.7
7212.341667	---	31.21	54.00	22.79	100.0	H	1.0	8.7

EUT Information

EUT Name: Keyboard
Model: KB317W
Test Mode: 2.4GHz Low CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

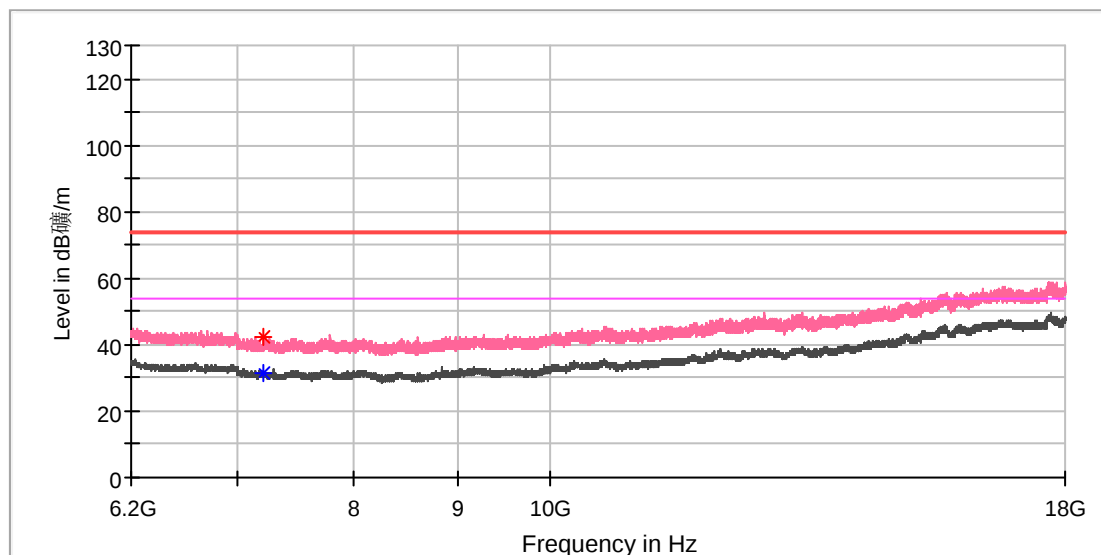


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.670000	---	78.64	94.00	15.36	100.0	V	345.0	7.0
2402.840000	79.85	---	114.00	34.15	100.0	V	345.0	7.0
4802.500000	---	38.78	54.00	15.22	100.0	V	359.0	11.8
4808.000000	49.31	---	74.00	24.69	100.0	V	157.0	11.8

EUT Information

EUT Name:	Keyboard
Model:	KB317W
Test Mode:	2.4GHz Low CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

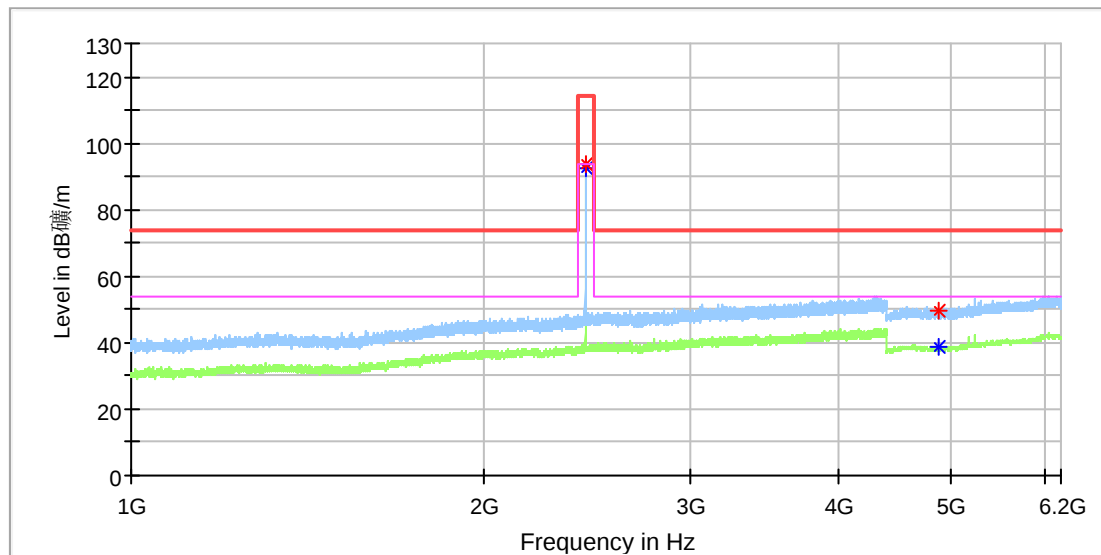


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	42.18	---	74.00	31.82	100.0	V	132.0	8.8
7214.800000	---	31.66	54.00	22.35	100.0	V	156.0	8.7

EUT Information

EUT Name: Keyboard
Model: KB317W
Test Mode: 2.4GHz Middle CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

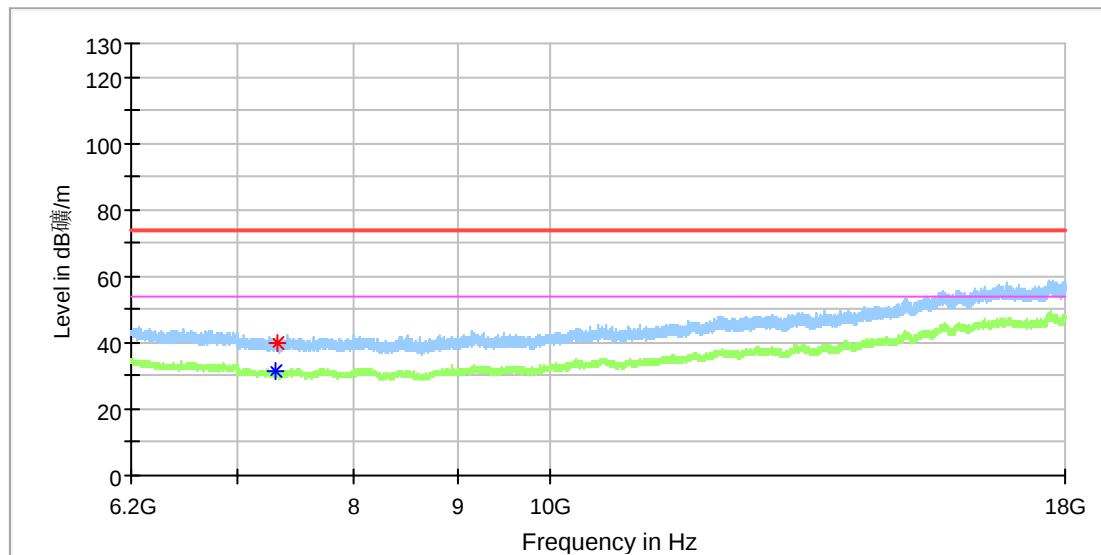


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2438.200000	---	92.62	94.00	1.38	100.0	H	191.0	7.4
2438.540000	93.73	---	114.00	20.27	100.0	H	191.0	7.4
4874.000000	---	38.45	54.00	15.55	100.0	H	341.0	11.8
4879.000000	49.32	---	74.00	24.68	100.0	H	160.0	11.8

EUT Information

EUT Name: Keyboard
Model: KB317W
Test Mode: 2.4GHz Middle CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

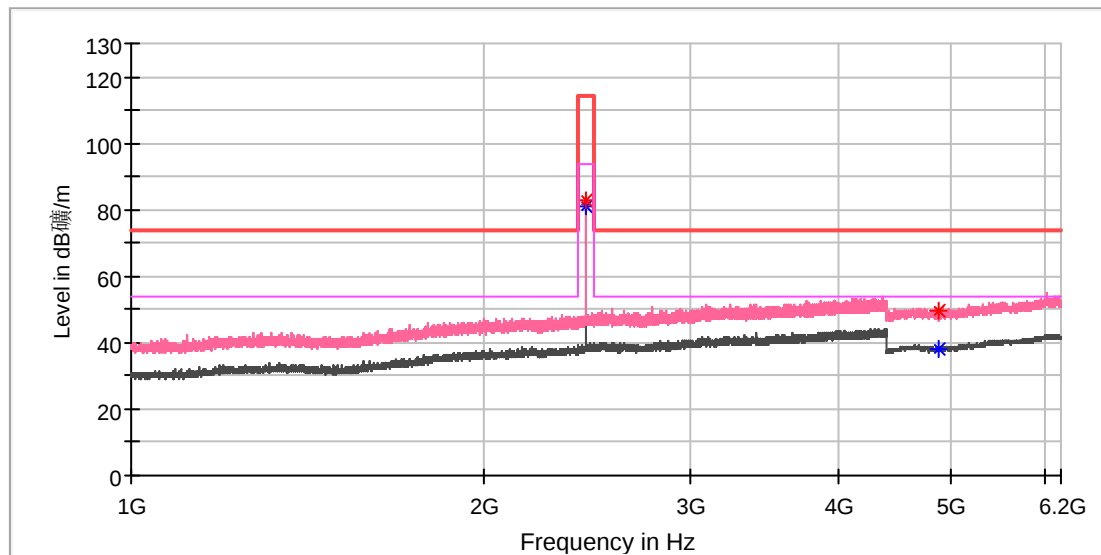


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.708333	---	31.54	54.00	22.46	100.0	H	264.0	8.2
7320.016667	39.77	---	74.00	34.23	100.0	H	163.0	8.2

EUT Information

EUT Name: Keyboard
Model: KB317W
Test Mode: 2.4GHz Middle CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

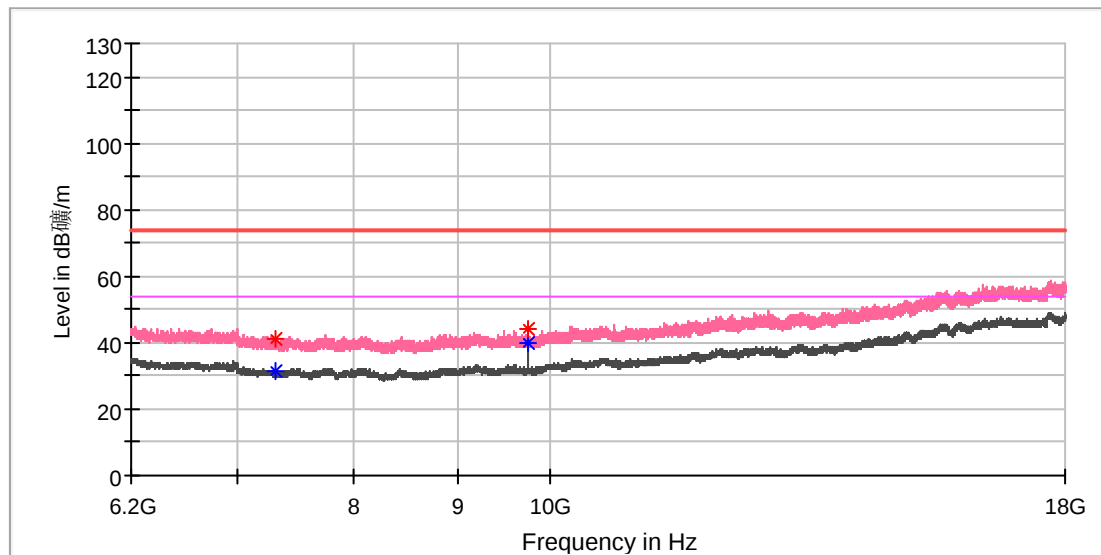


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2438.710000	82.65	---	114.00	31.35	100.0	V	130.0	7.4
2438.880000	---	80.78	94.00	13.22	100.0	V	130.0	7.4
4873.500000	49.67	---	74.00	24.33	100.0	V	264.0	11.8
4878.000000	---	38.24	54.00	15.76	100.0	V	355.0	11.8

EUT Information

EUT Name: Keyboard
Model: KB317W
Test Mode: 2.4GHz Middle CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

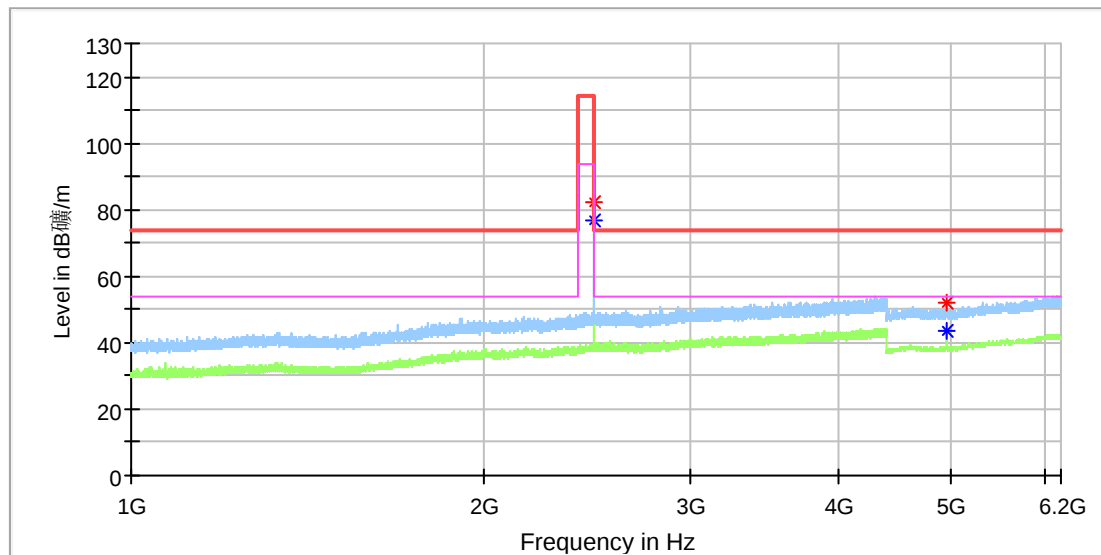


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7311.166667	---	31.63	54.00	22.37	100.0	V	309.0	8.2
7315.591667	41.04	---	74.00	32.96	100.0	V	115.0	8.2
9755.733333	43.93	---	74.00	30.07	100.0	V	73.0	10.4
9755.733333	---	40.02	54.00	13.98	100.0	V	73.0	10.4

EUT Information

EUT Name: Keyboard
Model: KB317W
Test Mode: 2.4GHz High CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

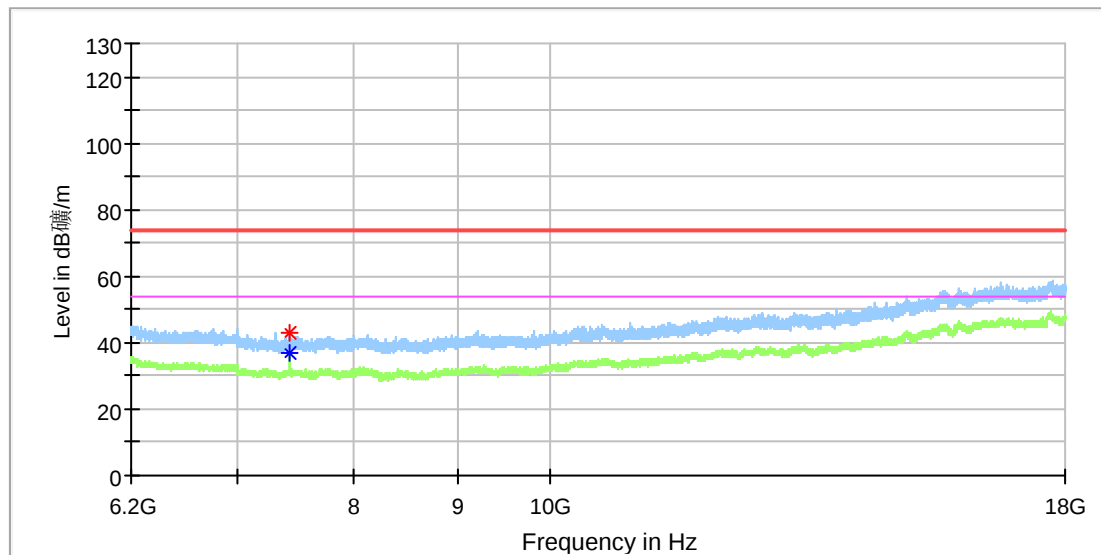


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.870000	82.33	---	114.00	31.67	100.0	H	224.0	7.4
2480.870000	---	76.69	94.00	17.31	100.0	H	224.0	7.4
4957.000000	52.20	---	74.00	21.80	100.0	H	14.0	11.8
4957.500000	---	43.79	54.00	10.21	100.0	H	81.0	11.8

EUT Information

EUT Name:	Keyboard
Model:	KB317W
Test Mode:	2.4GHz High CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

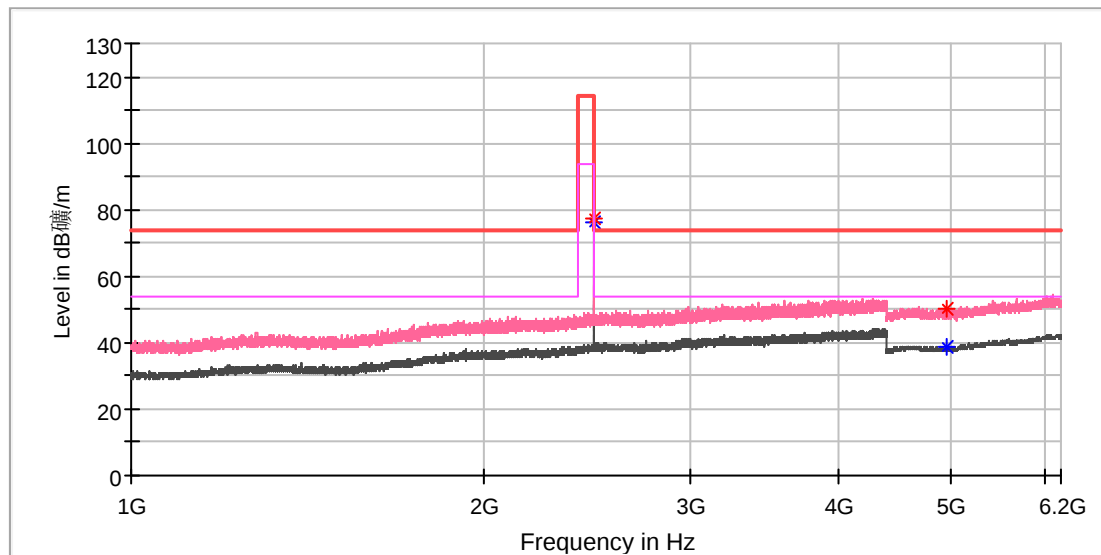


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7435.066667	42.90	---	74.00	31.10	100.0	H	73.0	8.4
7435.066667	---	37.14	54.00	16.86	100.0	H	73.0	8.4

EUT Information

EUT Name: Keyboard
Model: KB317W
Test Mode: 2.4GHz High CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

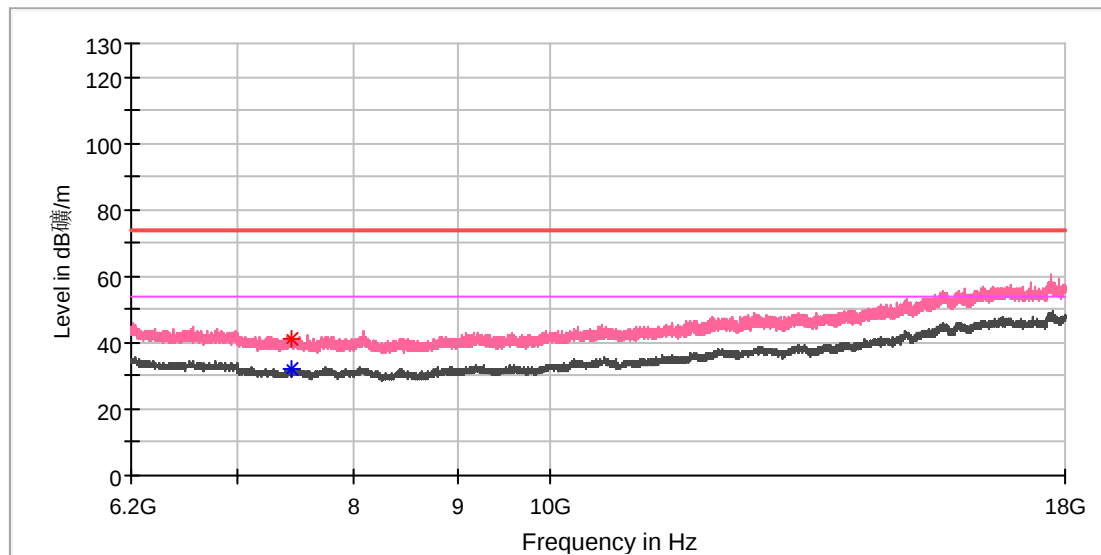


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.340000	---	76.28	94.00	17.72	100.0	V	311.0	7.4
2479.680000	77.35	---	114.00	36.65	100.0	V	311.0	7.4
4956.000000	---	38.53	54.00	15.47	100.0	V	287.0	11.8
4961.500000	49.92	---	74.00	24.08	100.0	V	318.0	11.8

EUT Information

EUT Name:	Keyboard
Model:	KB317W
Test Mode:	2.4GHz High CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

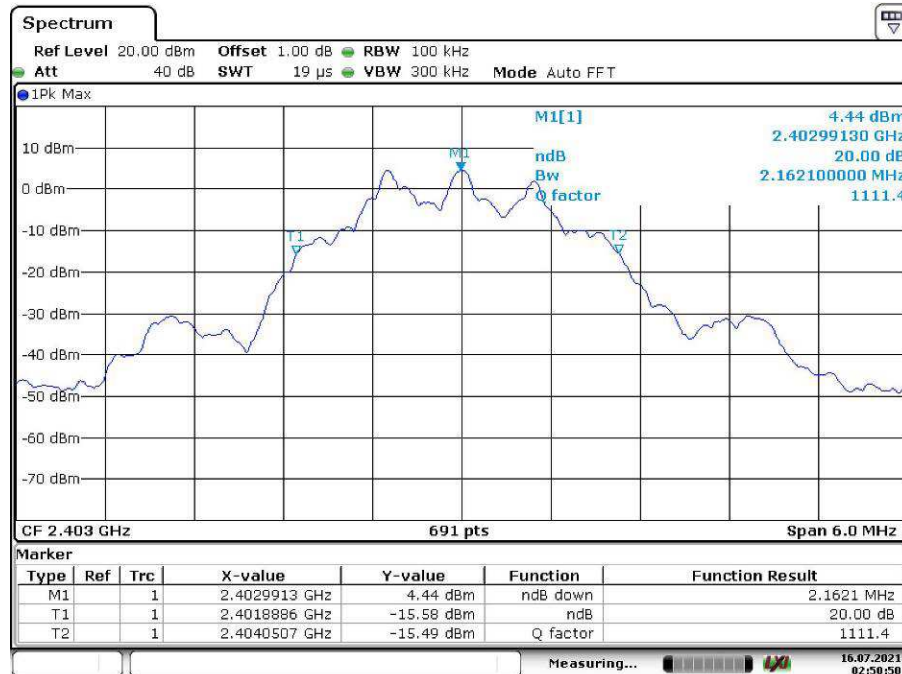


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7441.950000	41.16	---	74.00	32.84	100.0	V	0.0	8.4
7443.916667	---	32.24	54.00	21.76	100.0	V	358.0	8.5

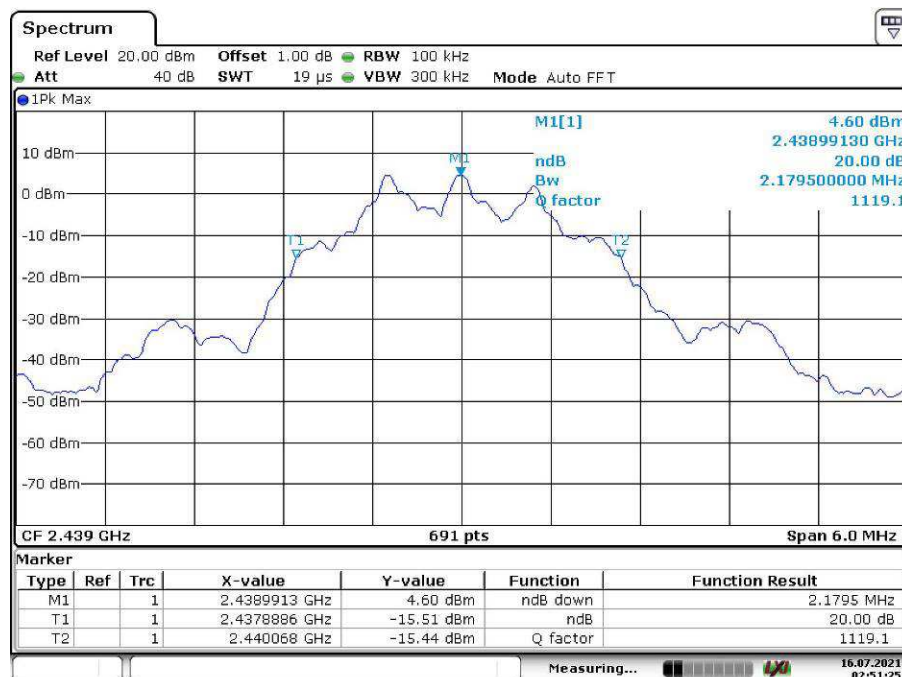
Appendix B.2: Test Results of 20dB Bandwidth

2403MHz



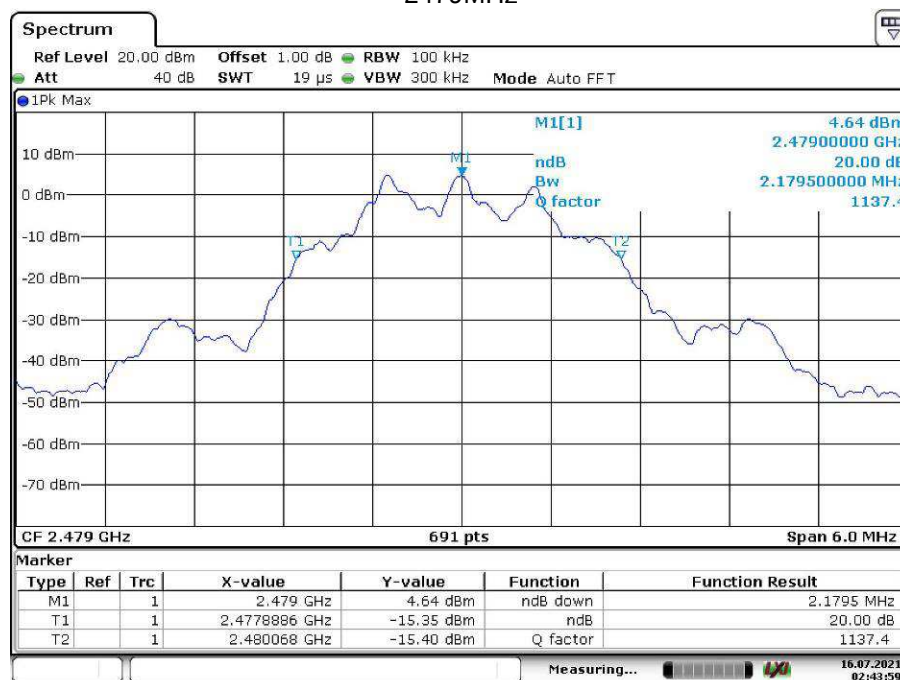
Date: 16.JUL.2021 02:50:50

2439MHz



Date: 16.JUL.2021 02:51:24

2479MHz



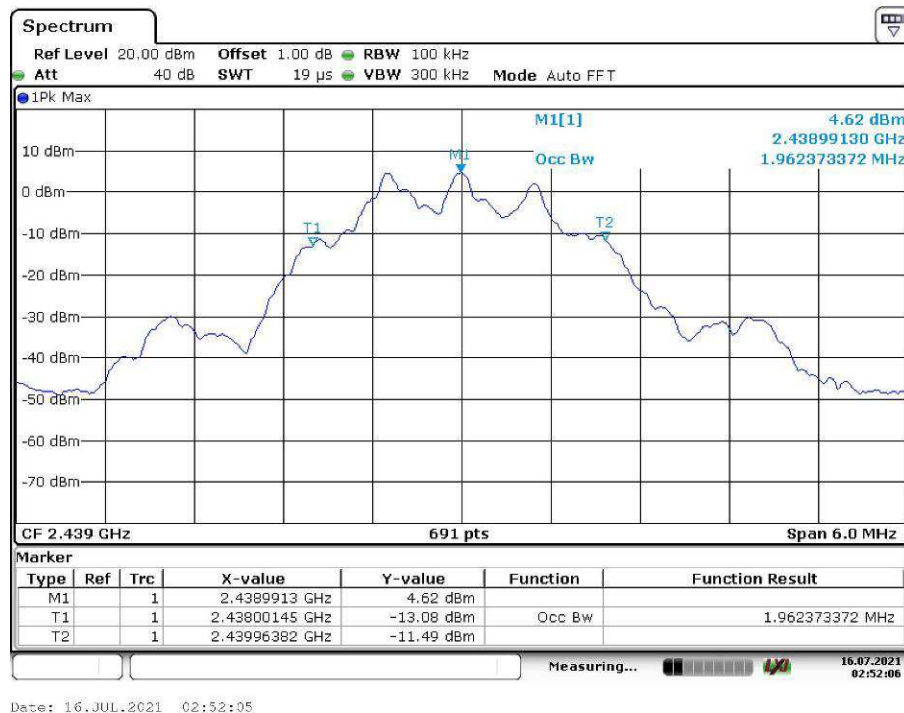
Date: 16.JUL.2021 02:43:59

Appendix B.3: Test Results of 99% Bandwidth

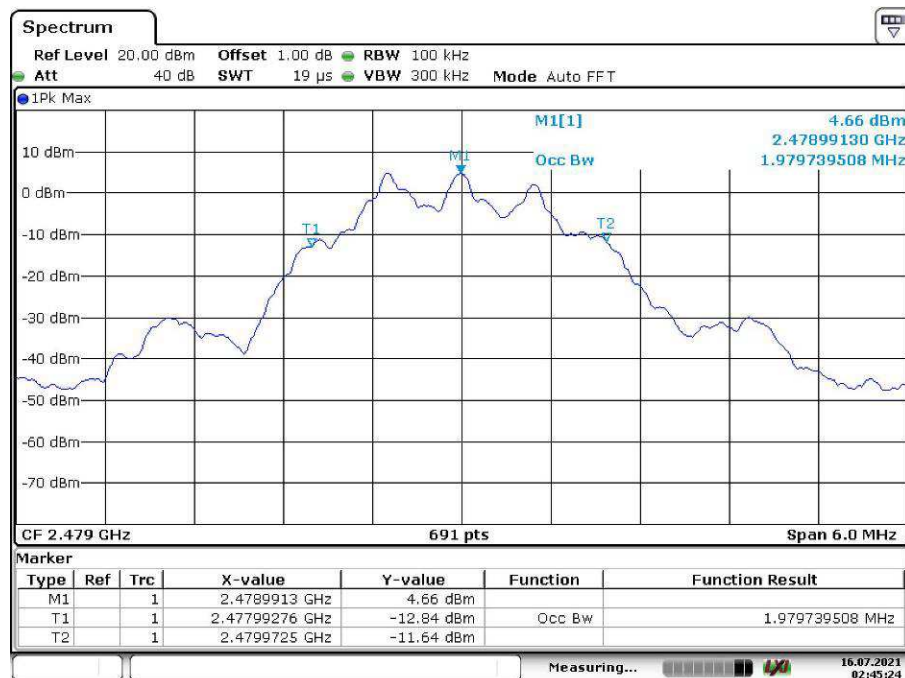
2403MHz



2439MHz



2479MHz

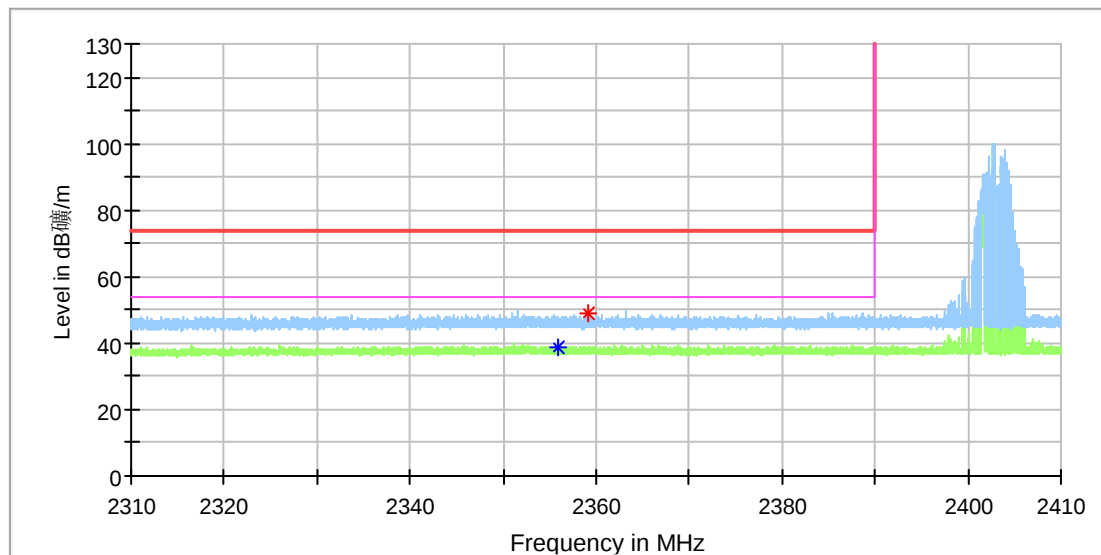


Date: 16.JUL.2021 02:45:24

Appendix B.4: Test Results of Band Edge

EUT Information

EUT Name:	Keyboard
Model:	KB317W
Test Mode:	2.4GHz Low CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

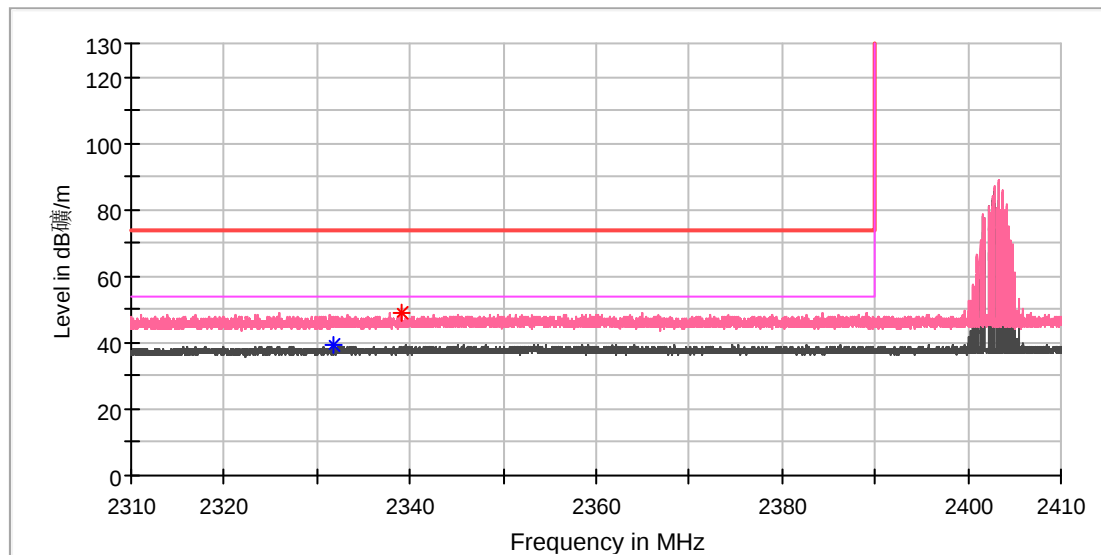


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2355.825750	---	38.86	54.00	15.14	100.0	H	39.0	6.9
2359.065750	49.11	---	74.00	24.89	100.0	H	0.0	6.9

EUT Information

EUT Name:	Keyboard
Model:	KB317W
Test Mode:	2.4GHz Low CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

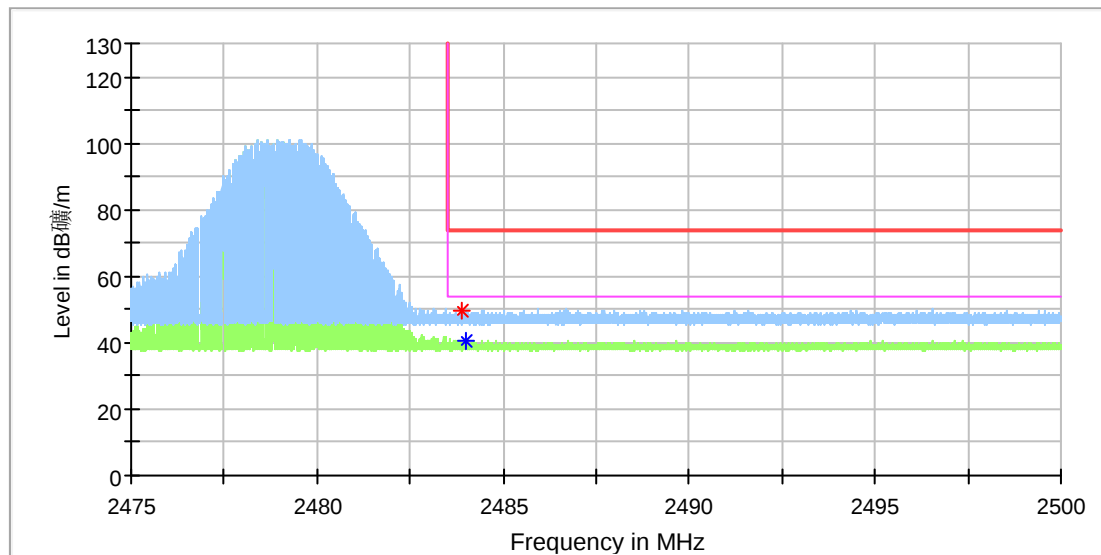


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2331.681000	---	39.53	54.00	14.47	100.0	V	1.0	6.7
2339.038500	48.71	---	74.00	25.29	100.0	V	185.0	6.8

EUT Information

EUT Name:	Keyboard
Model:	KB317W
Test Mode:	2.4GHz High CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

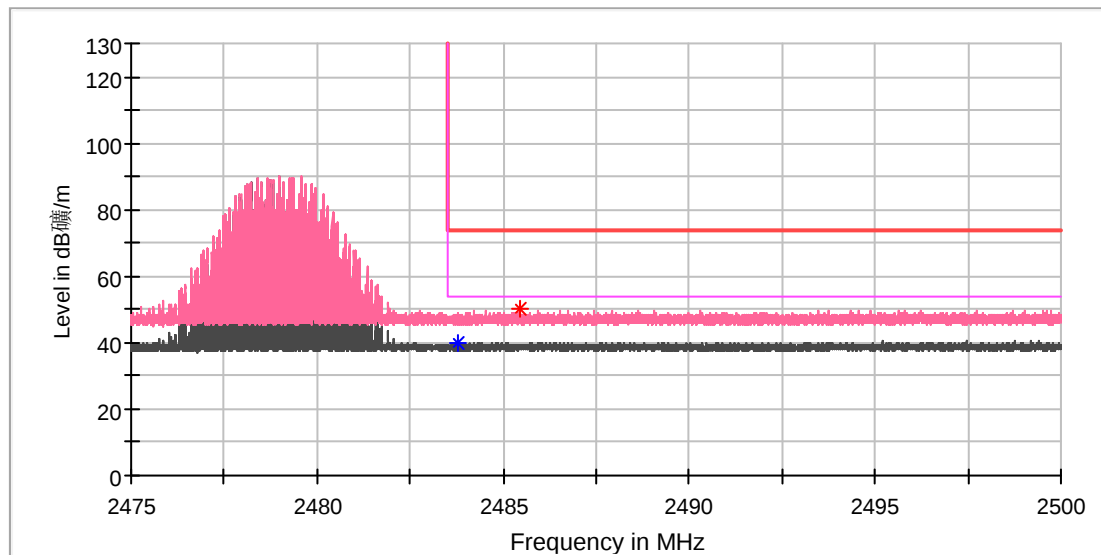


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.867500	49.84	---	74.00	24.16	100.0	H	356.0	7.4
2484.015000	---	40.76	54.00	13.24	100.0	H	294.0	7.4

EUT Information

EUT Name:	Keyboard
Model:	KB317W
Test Mode:	2.4GHz High CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
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)
2483.807500	---	39.82	54.00	14.18	100.0	V	316.0	7.4
2485.460000	50.13	---	74.00	23.87	100.0	V	290.0	7.4