

## Appendix A: Test Results

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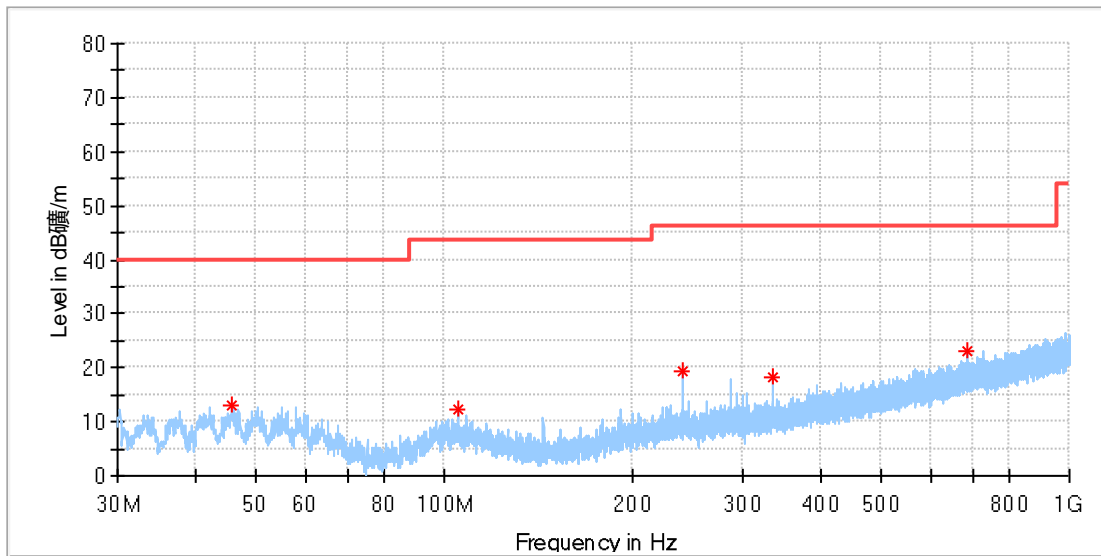
### Appendix A.1: Test Results of Field strength of fundamental & harmonics

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:	Lenovo EOS 2.4G Wireless Keyboard Gen3
Model:	KBRFEK71
Test Mode:	2.4G Mid Ch
Order No/Sample No:	168473368/A003705468-039
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



#### Critical\_Freqs

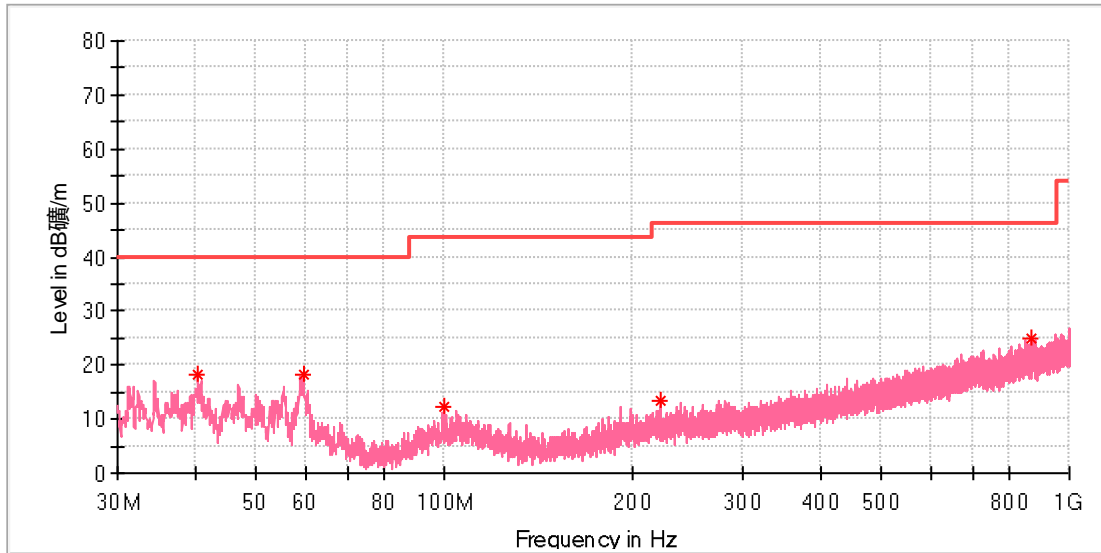
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.781154	12.86	40.00	27.14	100.0	H	277.0	-19.0
104.951154	12.19	43.50	31.31	100.0	H	209.0	-19.1
240.005000	19.46	46.00	26.54	100.0	H	347.0	-18.0
335.997692	18.20	46.00	27.80	100.0	H	11.0	-15.5
683.854615	23.01	46.00	22.99	100.0	H	103.0	-8.7

#### Final\_Result

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

### EUT Information

EUT Name: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G Mid Ch  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 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)
40.334231	18.20	40.00	21.80	100.0	V	117.0	-20.3
59.510385	18.25	40.00	21.75	100.0	V	217.0	-19.2
99.616154	12.46	43.50	31.04	100.0	V	53.0	-19.4
222.395769	13.24	46.00	32.76	100.0	V	226.0	-18.8
870.243846	25.03	46.00	20.97	100.0	V	101.0	-5.7

### Final\_Result

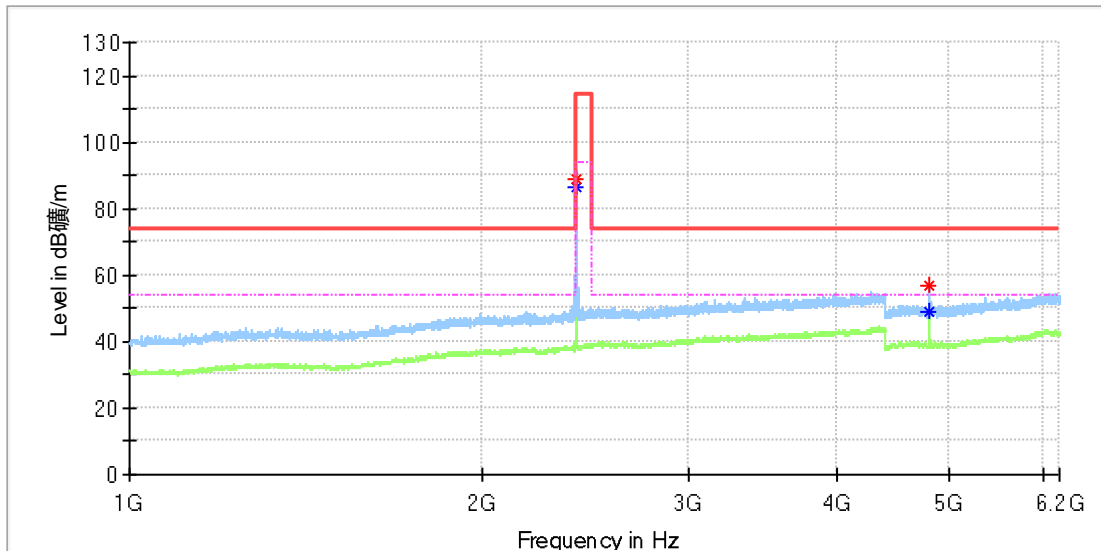
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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1GHz - 18GHz

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

### EUT Information

EUT Name:	Lenovo EOS 2.4G Wireless Keyboard Gen3
Model:	KBRFEK71
Test Mode:	2.4G L CH
Order No/Sample No:	168473368/A003705468-039
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

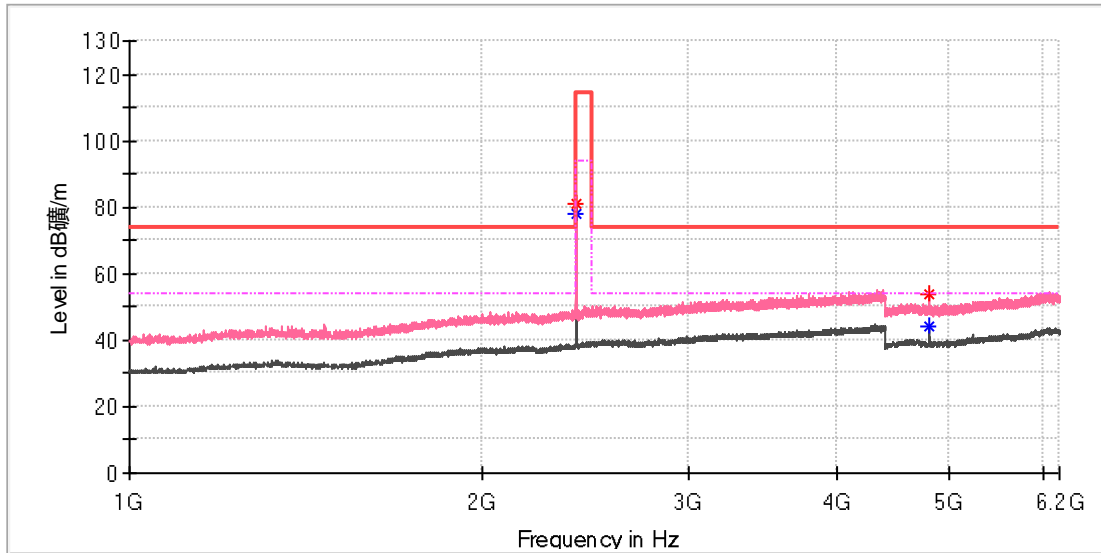
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.500000	88.79	---	114.00	25.21	150.0	H	6.0	7.0
2403.000000	---	86.19	94.00	7.81	150.0	H	6.0	7.0
4806.500000	---	48.72	54.00	5.28	150.0	H	55.0	11.8
4807.000000	57.03	---	74.00	16.97	150.0	H	48.0	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: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G L CH  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

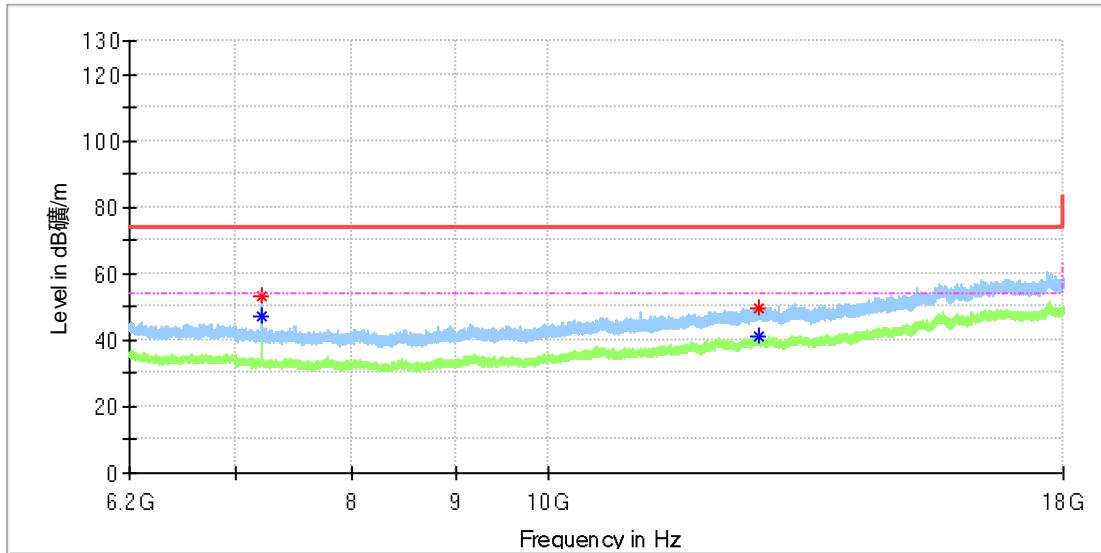
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.500000	81.02	---	114.00	32.98	150.0	V	263.0	7.0
2403.000000	---	77.89	94.00	16.11	150.0	V	31.0	7.0
4806.500000	---	44.42	54.00	9.58	150.0	V	41.0	11.8
4807.000000	53.56	---	74.00	20.44	150.0	V	41.0	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: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G L CH  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

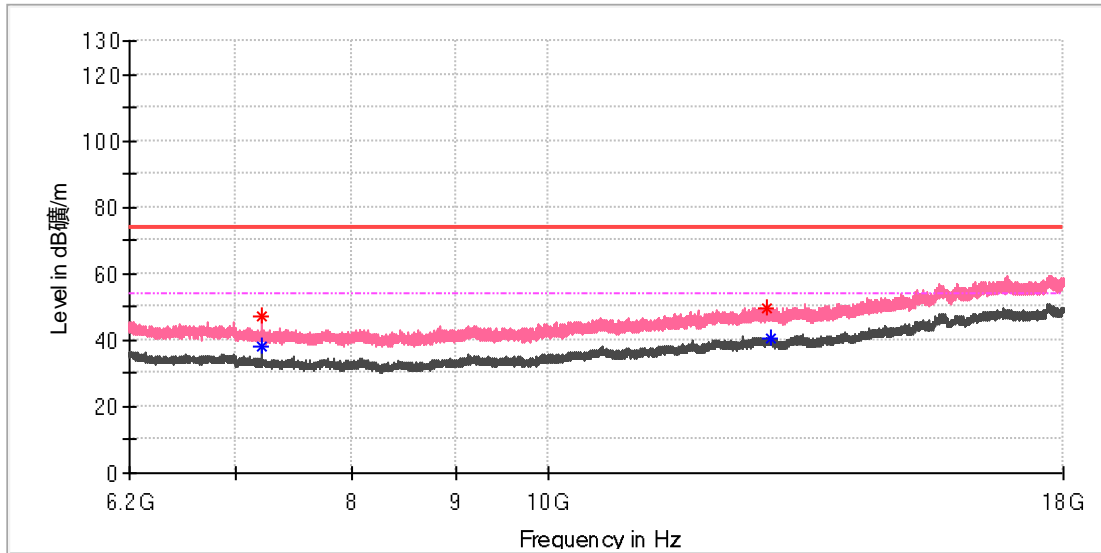
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7207.425000	53.37	---	74.00	20.63	150.0	H	234.0	8.8
7207.425000	---	47.34	54.00	6.66	150.0	H	234.0	8.8
12704.258333	---	40.91	54.00	13.09	150.0	H	354.0	15.1
12716.550000	49.73	---	74.00	24.27	150.0	H	245.0	15.1

### Final Result

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

### EUT Information

EUT Name: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G L CH  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

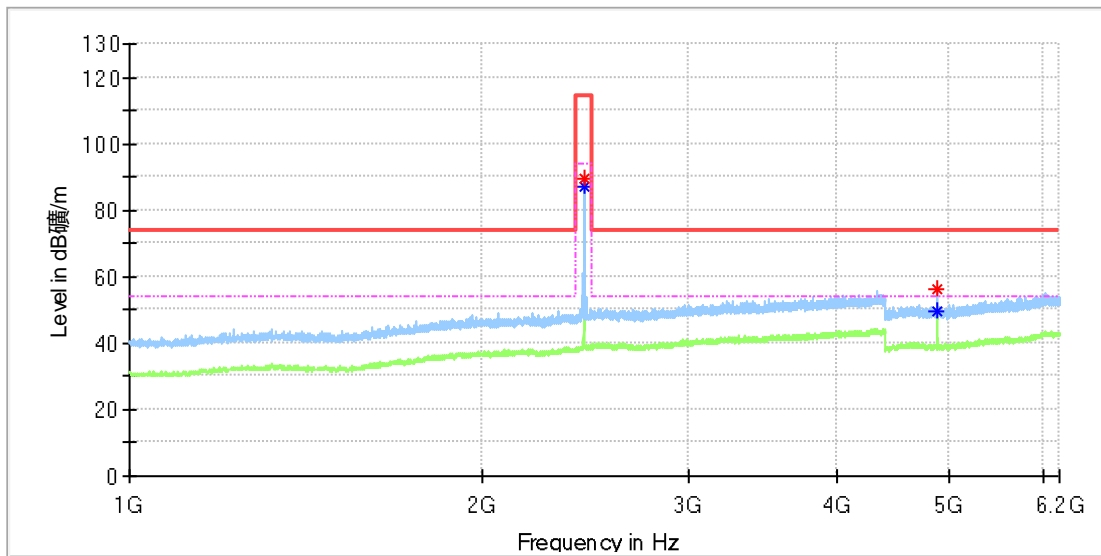
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7209.883333	---	38.33	54.00	15.67	150.0	V	69.0	8.7
7210.375000	47.38	---	74.00	26.62	150.0	V	69.0	8.7
12838.975000	49.77	---	74.00	24.23	150.0	V	304.0	15.3
12876.833333	---	40.74	54.00	13.26	150.0	V	69.0	15.4

### 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: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G Mid Ch  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 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)
2440.000000	---	87.10	94.00	6.90	150.0	H	52.0	7.4
2440.500000	89.44	---	114.00	24.56	150.0	H	52.0	7.4
4879.000000	---	49.38	54.00	4.62	150.0	H	350.0	11.8
4880.500000	56.46	---	74.00	17.54	150.0	H	224.0	11.8

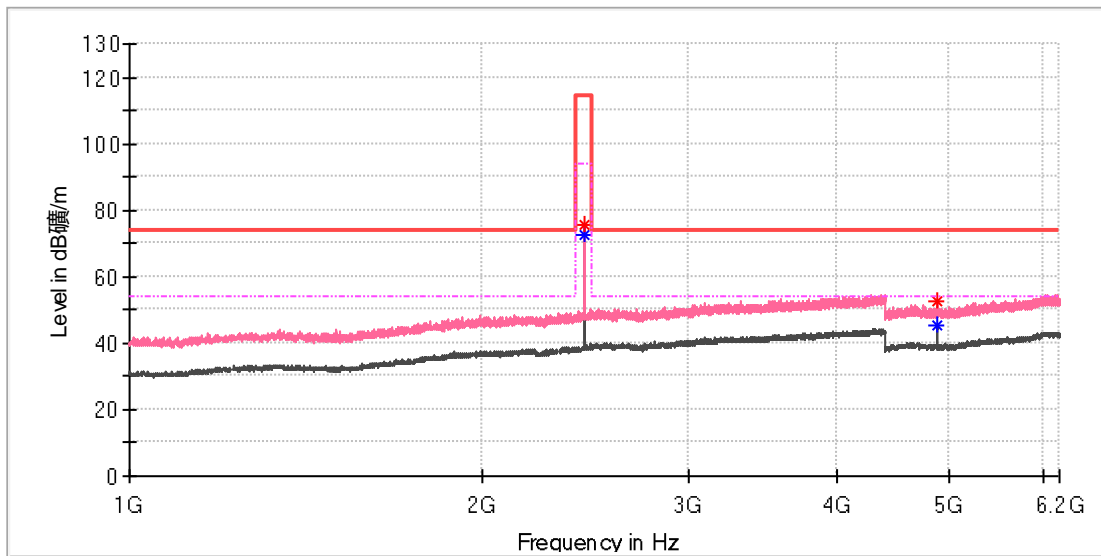
### Final Result

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



### EUT Information

EUT Name: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G Mid Ch  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

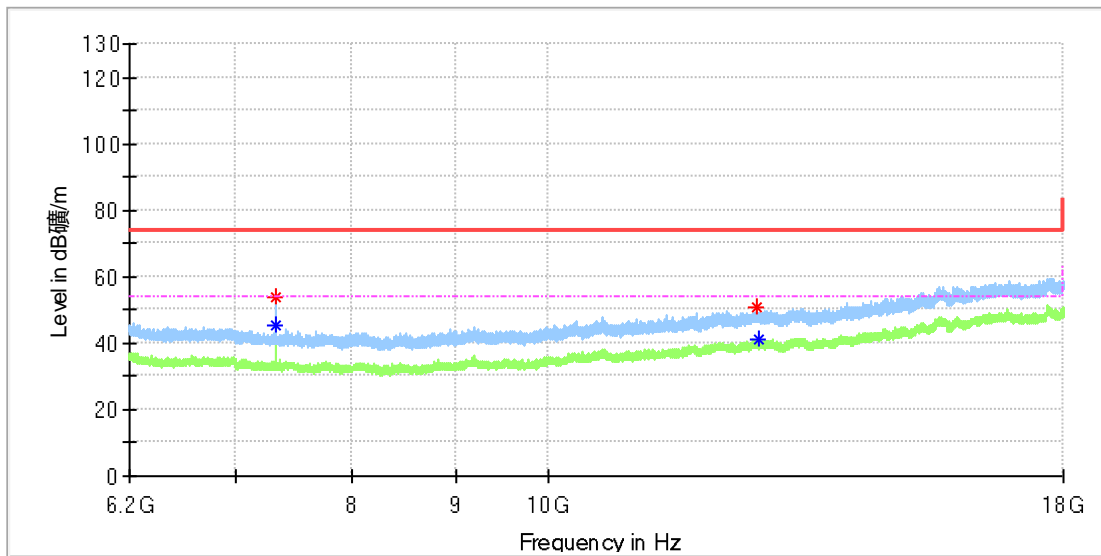
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2440.000000	---	72.35	94.00	21.65	150.0	V	168.0	7.4
2440.500000	75.31	---	114.00	38.69	150.0	V	356.0	7.4
4879.000000	52.73	---	74.00	21.27	150.0	V	46.0	11.8
4879.000000	---	45.63	54.00	8.37	150.0	V	46.0	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: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G Mid Ch  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

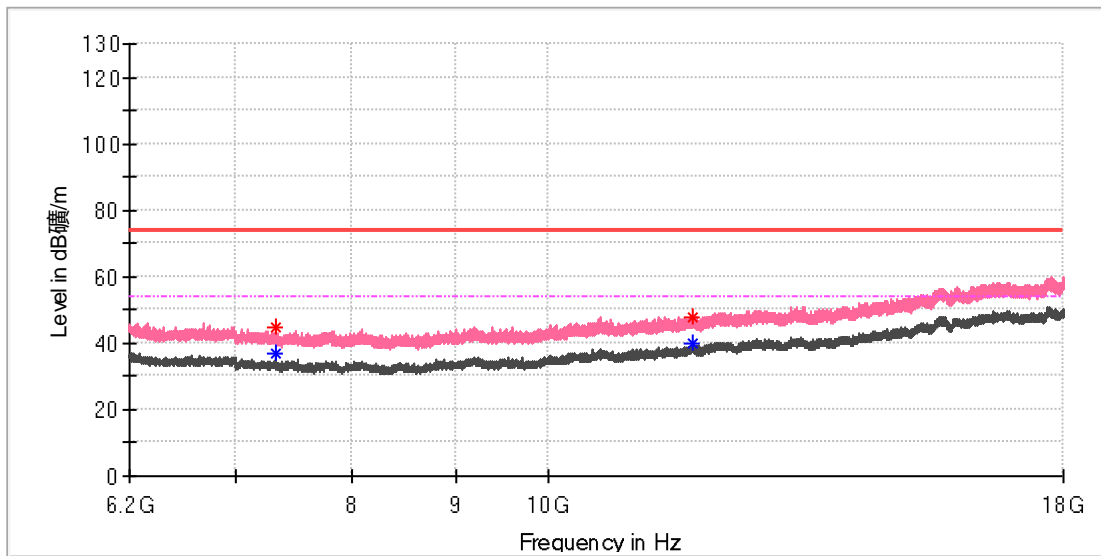
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7320.508333	---	45.54	54.00	8.46	150.0	H	43.0	8.2
7321.491667	53.68	---	74.00	20.32	150.0	H	43.0	8.2
12697.866667	50.89	---	74.00	23.11	150.0	H	79.0	15.1
12707.208333	---	41.18	54.00	12.82	150.0	H	103.0	15.1

### Final Result

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

### EUT Information

EUT Name: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G Mid Ch  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

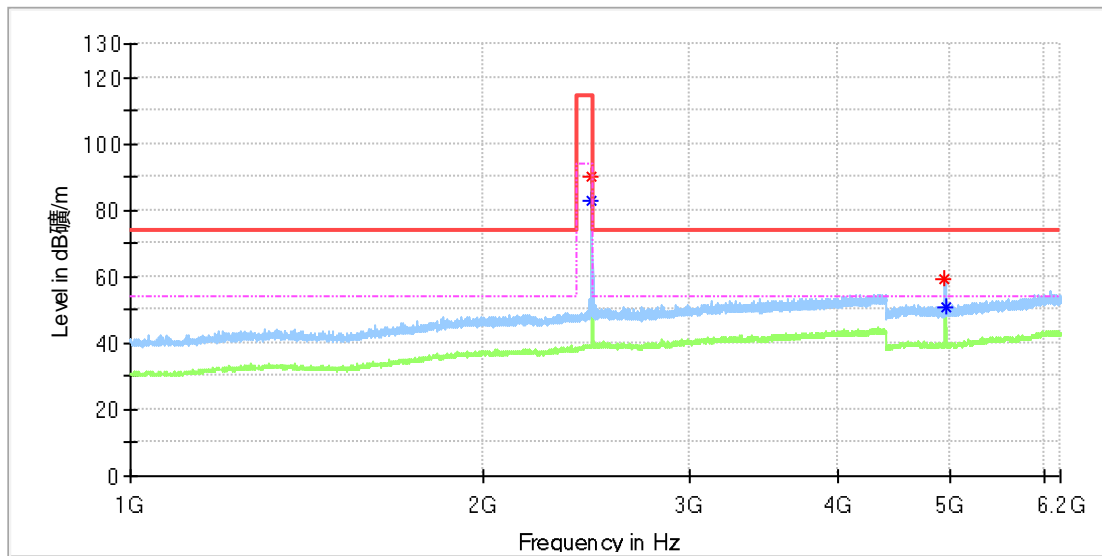
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7321.491667	44.45	---	74.00	29.55	150.0	V	146.0	8.2
7321.491667	---	36.62	54.00	17.38	150.0	V	146.0	8.2
11782.875000	---	39.69	54.00	14.31	150.0	V	182.0	13.4
11793.691667	47.99	---	74.00	26.01	150.0	V	303.0	13.4

### Final\_Result

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

### EUT Information

EUT Name: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G H CH  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

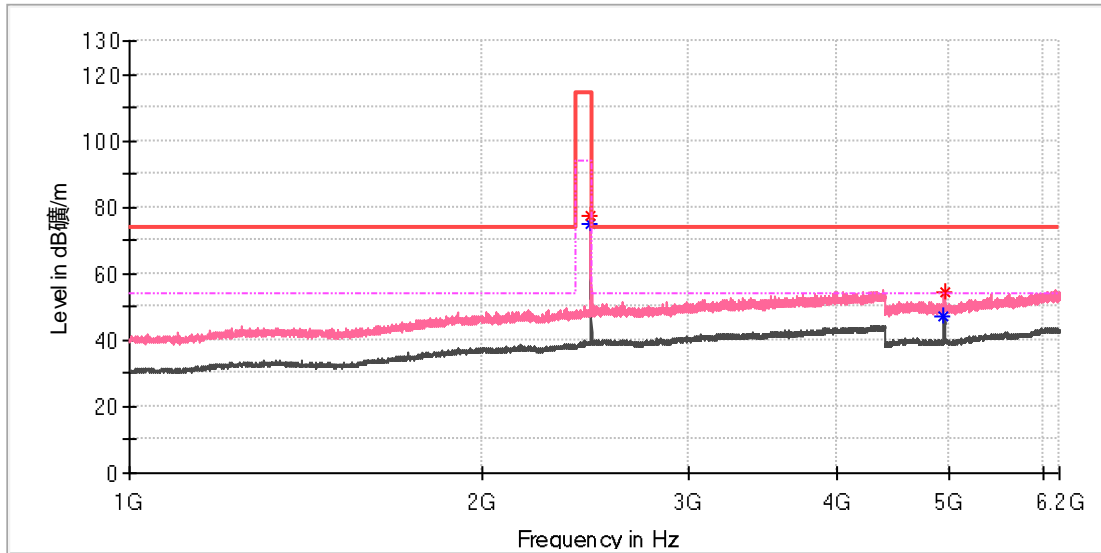
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2472.500000	90.35	---	114.00	23.66	150.0	H	328.0	7.4
2473.000000	---	83.01	94.00	10.99	150.0	H	328.0	7.4
4944.500000	59.51	---	74.00	14.49	150.0	H	225.0	11.8
4945.500000	---	50.70	54.00	3.30	150.0	H	159.0	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: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G H CH  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

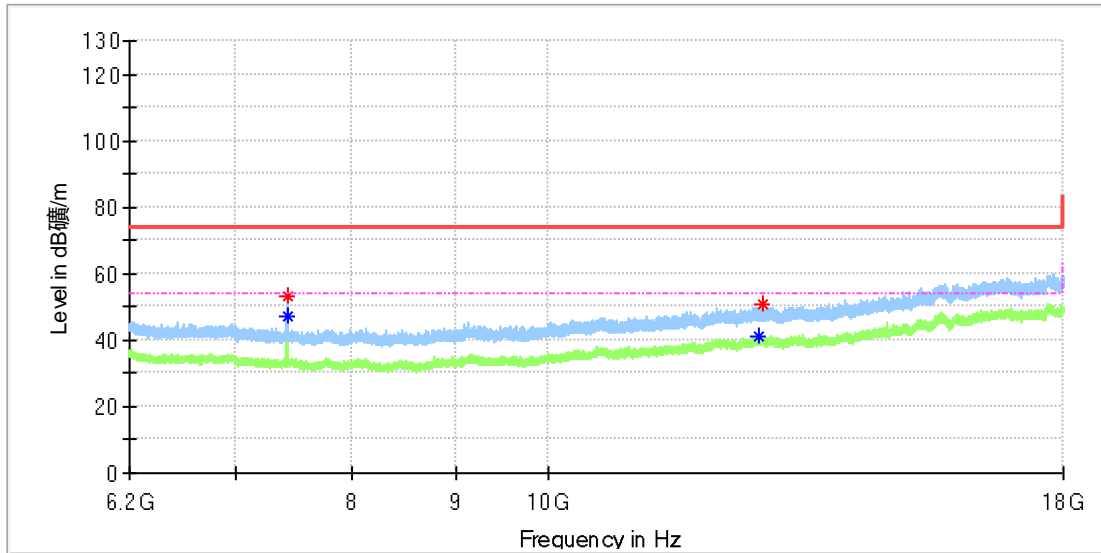
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2472.500000	77.35	---	114.00	36.65	150.0	V	197.0	7.4
2473.000000	---	74.86	94.00	19.14	150.0	V	197.0	7.4
4945.000000	---	47.11	54.00	6.89	150.0	V	31.0	11.8
4946.500000	54.53	---	74.00	19.47	150.0	V	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: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G H CH  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

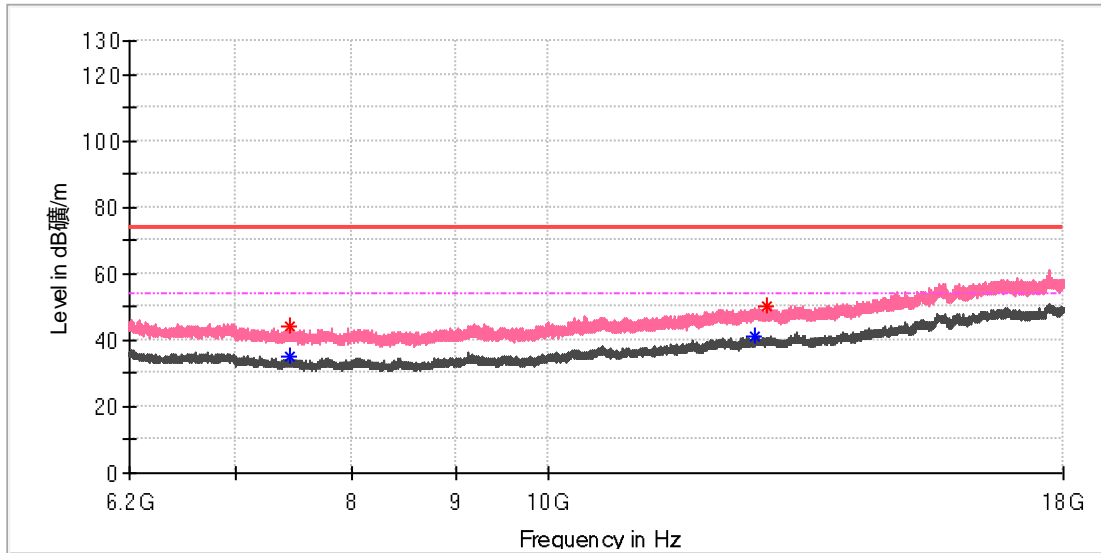
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7420.316667	---	47.10	54.00	6.90	150.0	H	157.0	8.4
7420.316667	53.29	---	74.00	20.71	150.0	H	157.0	8.4
12706.716667	---	40.95	54.00	13.05	150.0	H	304.0	15.1
12776.533333	50.92	---	74.00	23.08	150.0	H	304.0	15.2

### Final\_Result

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

### EUT Information

EUT Name: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G H CH  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

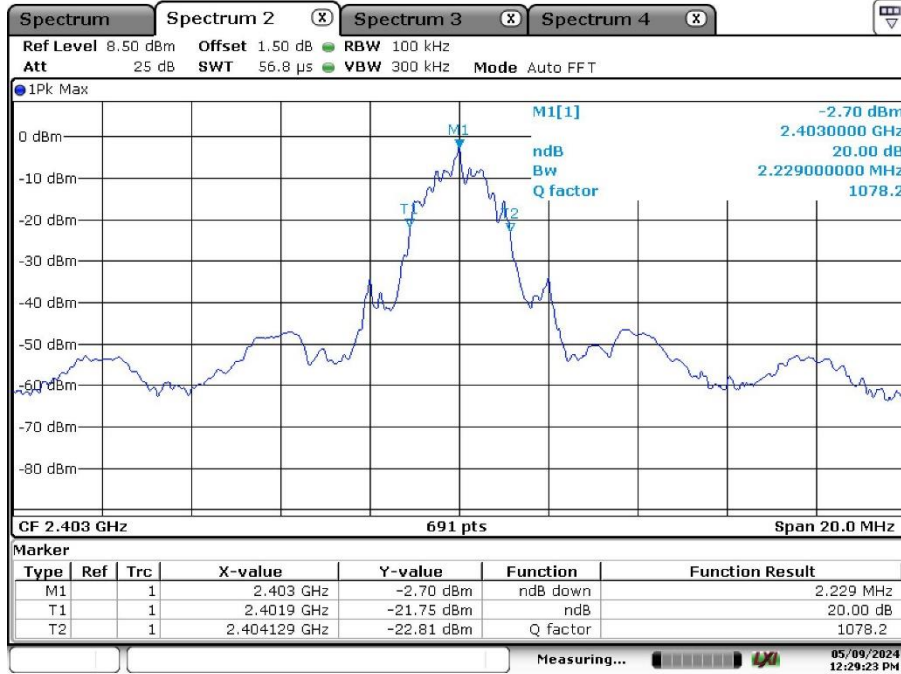
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.000000	---	34.92	54.00	19.08	150.0	V	223.0	8.4
7452.766667	44.13	---	74.00	29.87	150.0	V	272.0	8.5
12653.616667	---	41.12	54.00	12.88	150.0	V	57.0	15.0
12827.666667	50.19	---	74.00	23.81	150.0	V	199.0	15.3

### Final\_Result

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

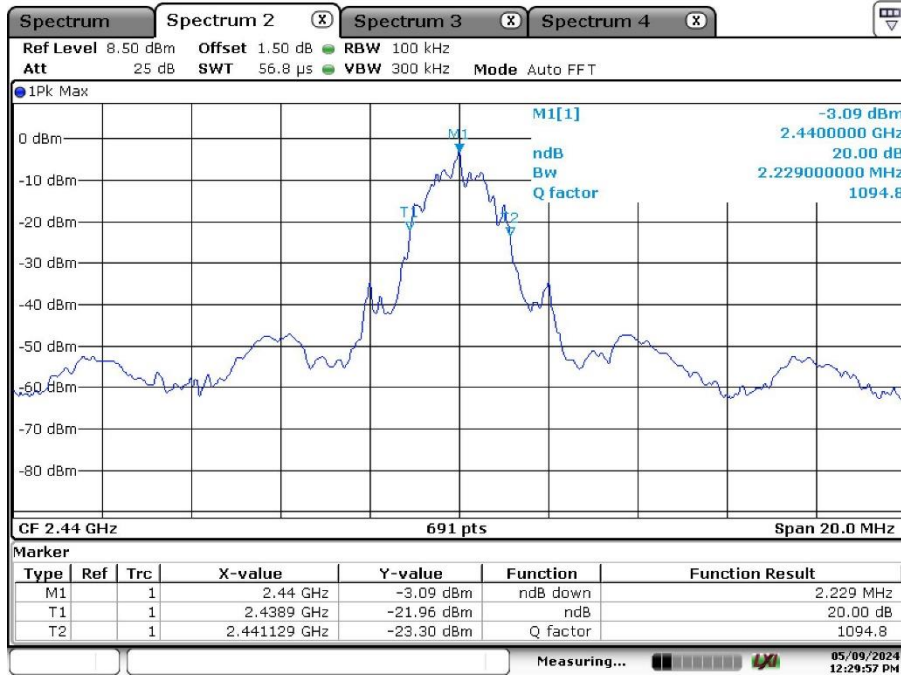
### Appendix A.2: Test Results of 20dB Bandwidth

2403 MHz



Date: 9.MAY.2024 12:29:23

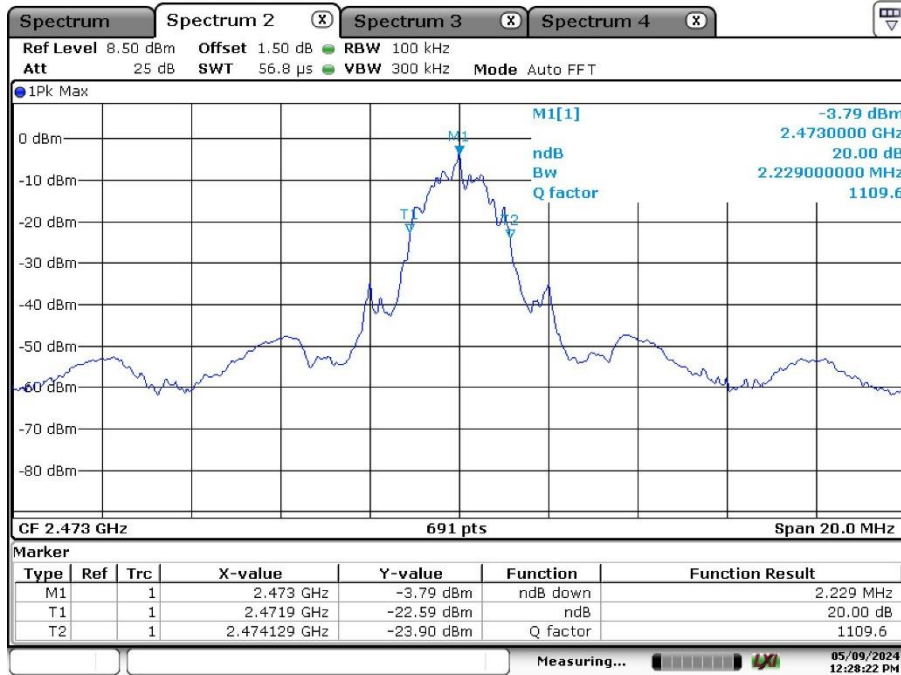
2440 MHz



Date: 9.MAY.2024 12:29:57

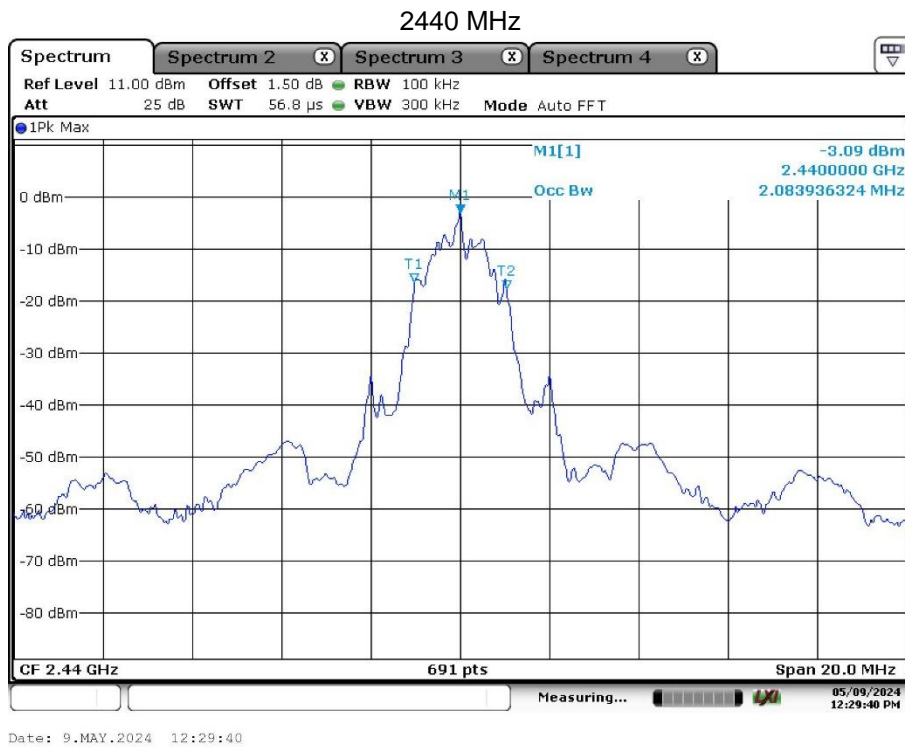
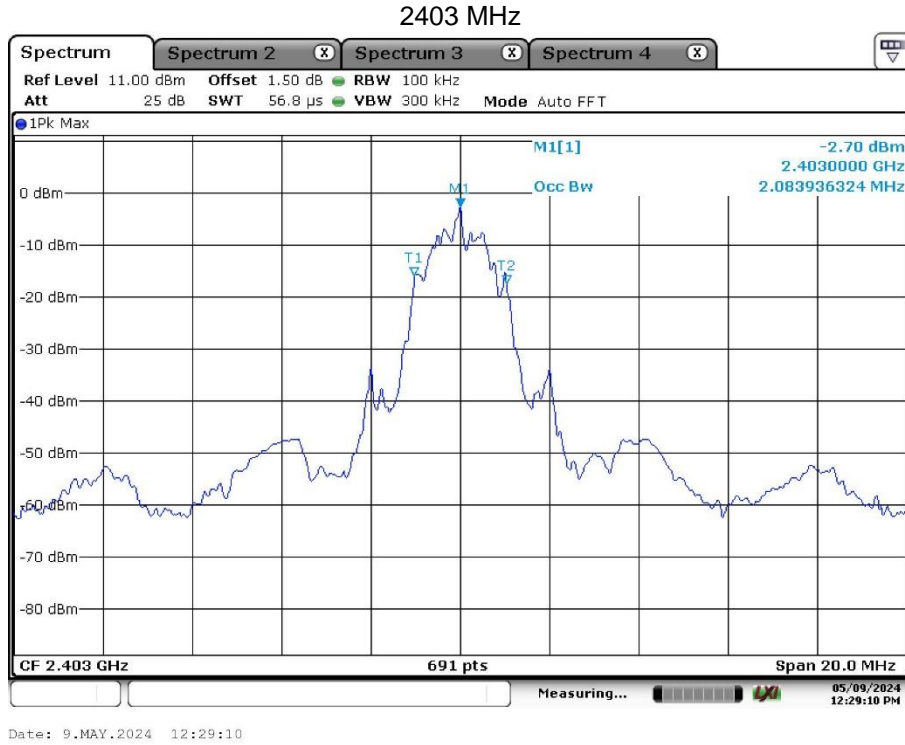


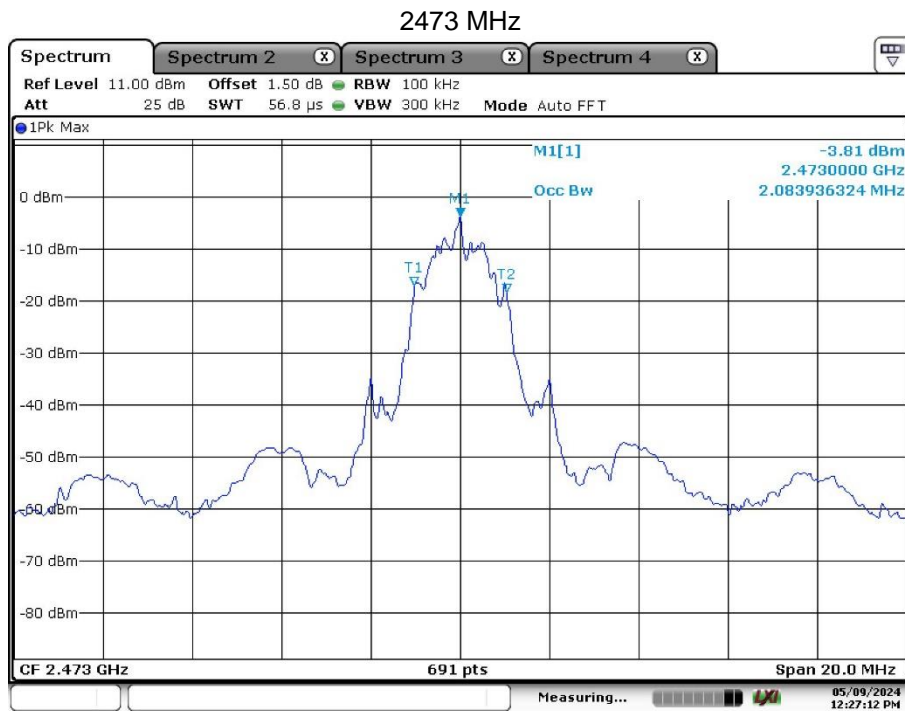
2473 MHz



Date: 9.MAY.2024 12:28:23

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



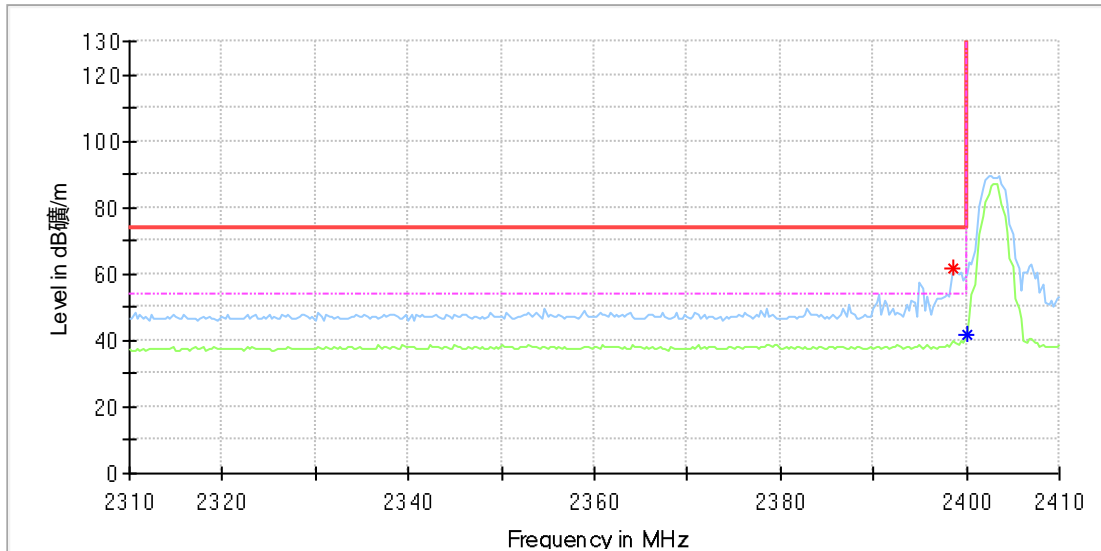


Date: 9.MAY.2024 12:27:12

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

#### EUT Information

EUT Name: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G L CH  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



#### Critical Freqs

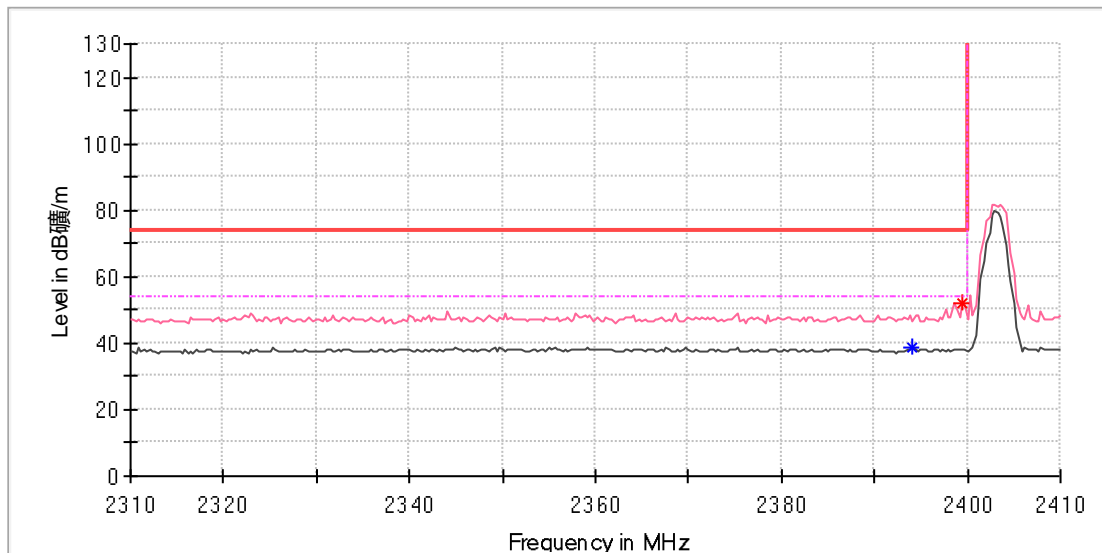
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2398.529412	61.44	---	74.00	12.56	150.0	H	184.0	7.0
2400.000000	---	41.44	54.00	12.56	150.0	H	66.0	7.0

#### 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: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G L CH  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

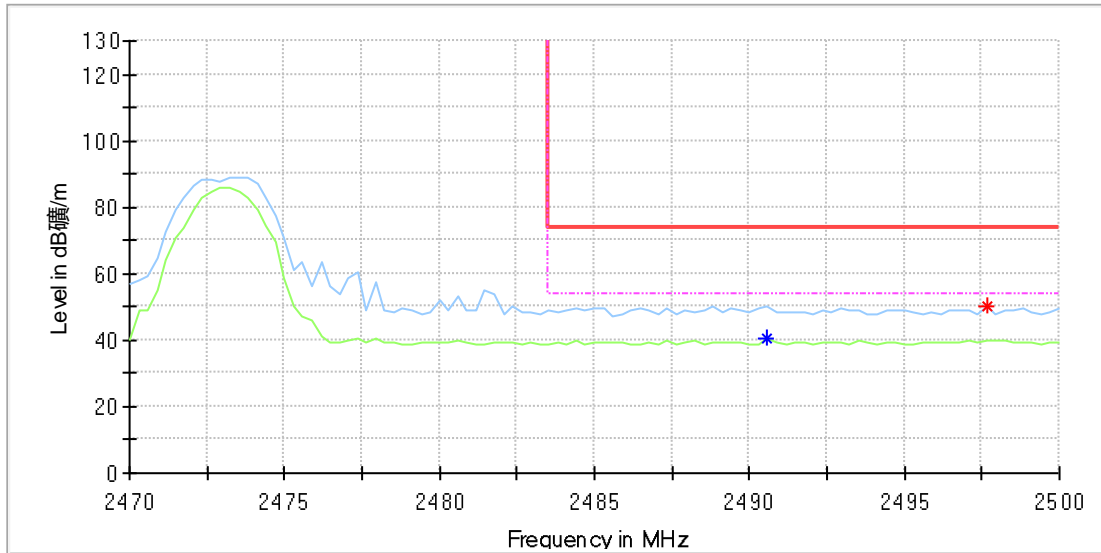
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2394.117647	---	38.66	54.00	15.34	150.0	V	299.0	7.0
2399.411765	51.94	---	74.00	22.06	150.0	V	186.0	7.0

### Final\_Result

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

### EUT Information

EUT Name: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G H CH  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.249  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

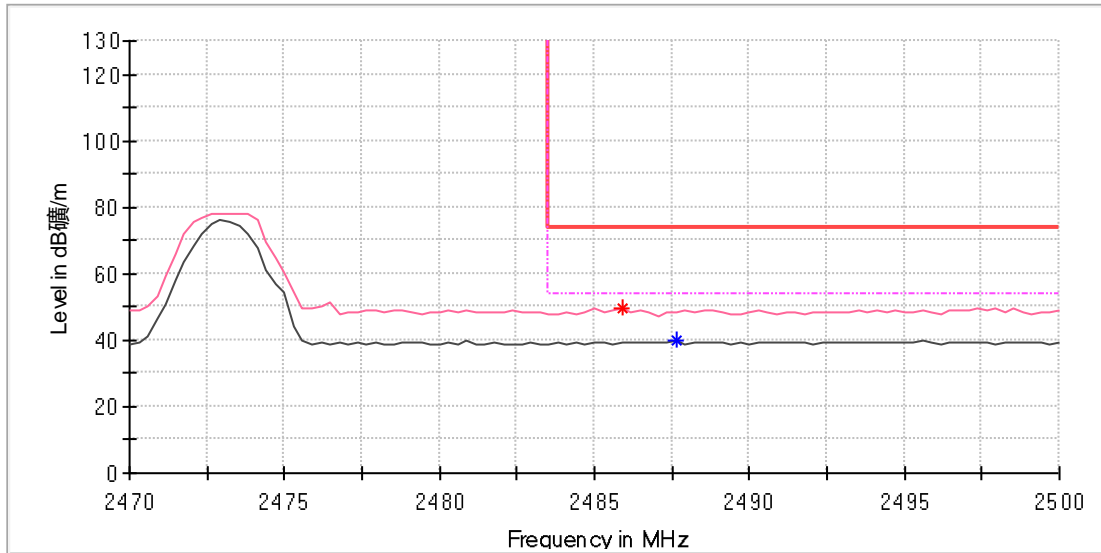
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2490.588235	---	40.33	54.00	13.67	150.0	H	114.0	7.4
2497.647059	50.20	---	74.00	23.80	150.0	H	215.0	7.4

### 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: Lenovo EOS 2.4G Wireless Keyboard Gen3  
 Model: KBRFEK71  
 Test Mode: 2.4G H CH  
 Order No/Sample No: 168473368/A003705468-039  
 Test Voltage: Battery  
 Remark: Temp 23 Humi:58%  
 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)
2485.882353	49.48	---	74.00	24.52	150.0	V	0.0	7.4
2487.647059	---	39.66	54.00	14.34	150.0	V	248.0	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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