

Appendix B: Test Results

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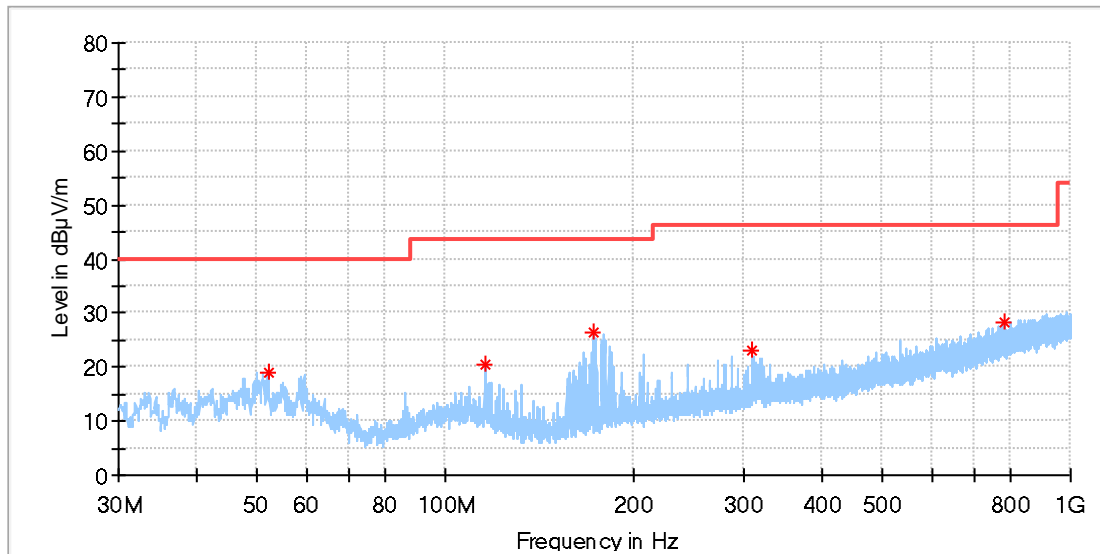
Appendix B.1: Test Results of Field strength of fundamental & harmonics

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 Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_Mid channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

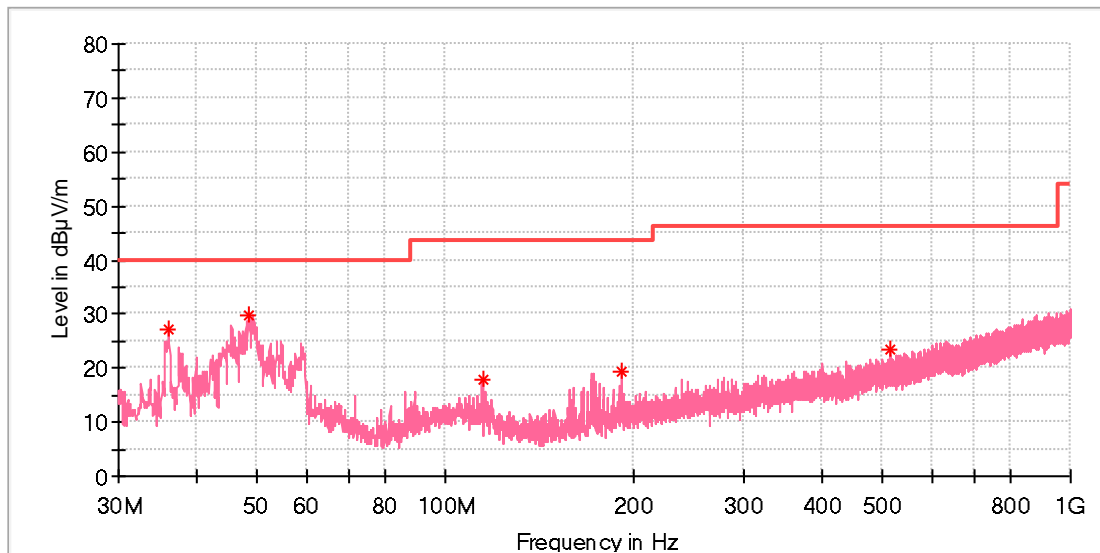


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
52.019000	18.90	40.00	21.10	100.0	H	17.0	-18.4
115.505500	20.40	43.50	23.10	100.0	H	22.0	-19.8
172.202000	26.60	43.50	16.90	100.0	H	77.0	-21.0
308.729500	23.21	46.00	22.79	100.0	H	69.0	-16.0
783.496000	28.33	46.00	17.67	100.0	H	256.0	-6.6

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_Mid channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

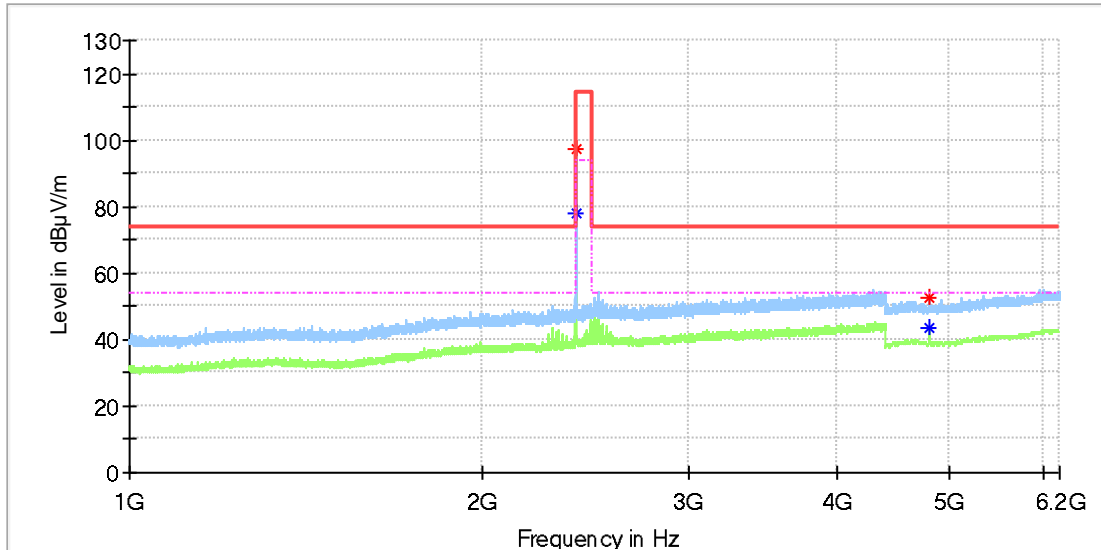
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.111000	27.10	40.00	12.90	100.0	V	238.0	-21.5
48.381500	29.76	40.00	10.24	100.0	V	291.0	-18.4
114.584000	17.72	43.50	25.78	100.0	V	320.0	-19.7
190.923000	19.45	43.50	24.05	100.0	V	306.0	-19.4
513.787500	23.35	46.00	22.65	100.0	V	201.0	-11.6

1GHz - 18GHz

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

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_Low channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

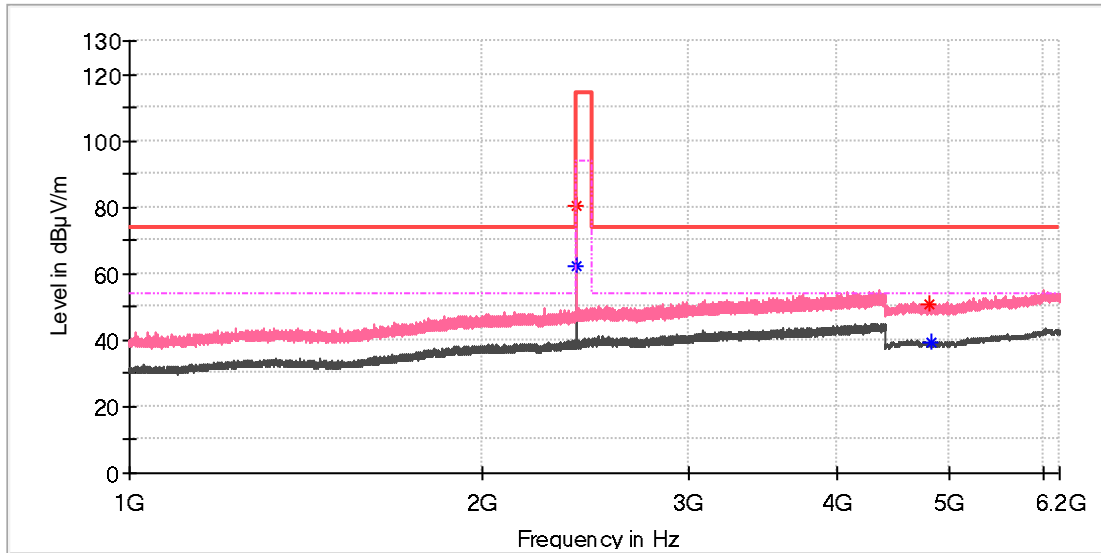


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2400.290000	---	77.96	94.00	16.04	100.0	H	164.0	7.0
2401.480000	97.12	---	114.00	16.88	100.0	H	265.0	7.0
4803.000000	52.64	---	74.00	21.36	100.0	H	239.0	11.8
4803.500000	---	43.56	54.00	10.44	100.0	H	239.0	11.8

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_Low channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

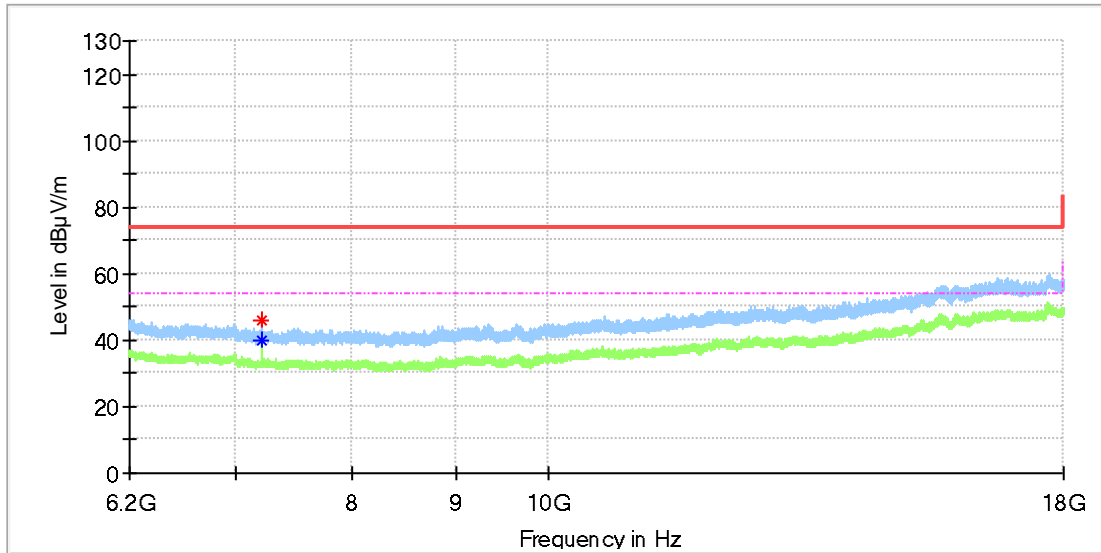


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2400.460000	---	62.19	94.00	31.81	100.0	V	288.0	7.0
2401.990000	80.59	---	114.00	33.41	100.0	V	1.0	7.0
4810.000000	51.07	---	74.00	22.93	100.0	V	150.0	11.8
4814.000000	---	39.48	54.00	14.52	100.0	V	271.0	11.8

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_Low channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

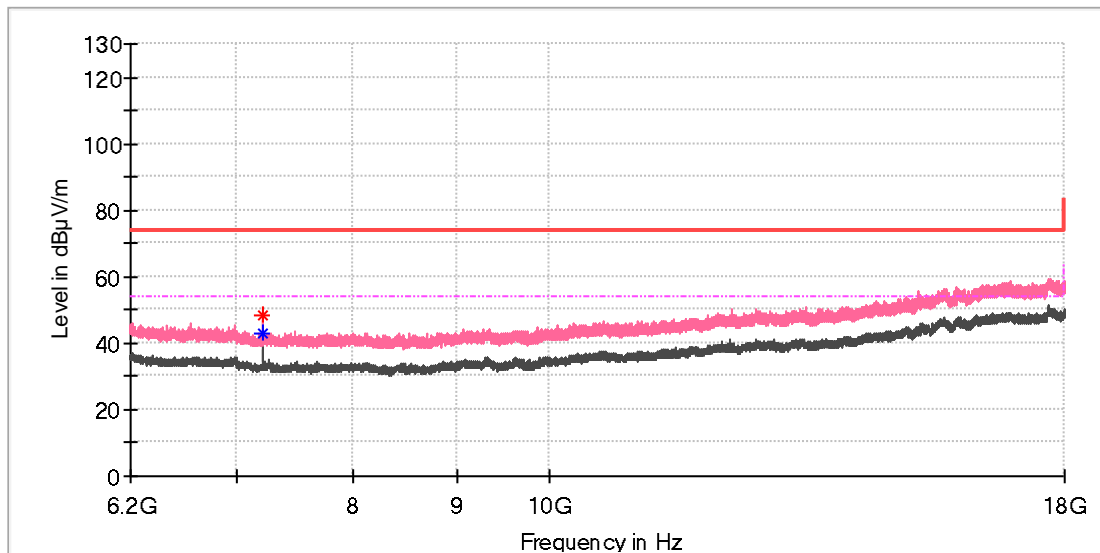


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7206.933333	---	39.94	54.00	14.06	100.0	H	327.0	8.8
7207.425000	45.94	---	74.00	28.06	100.0	H	8.0	8.8

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_Low channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

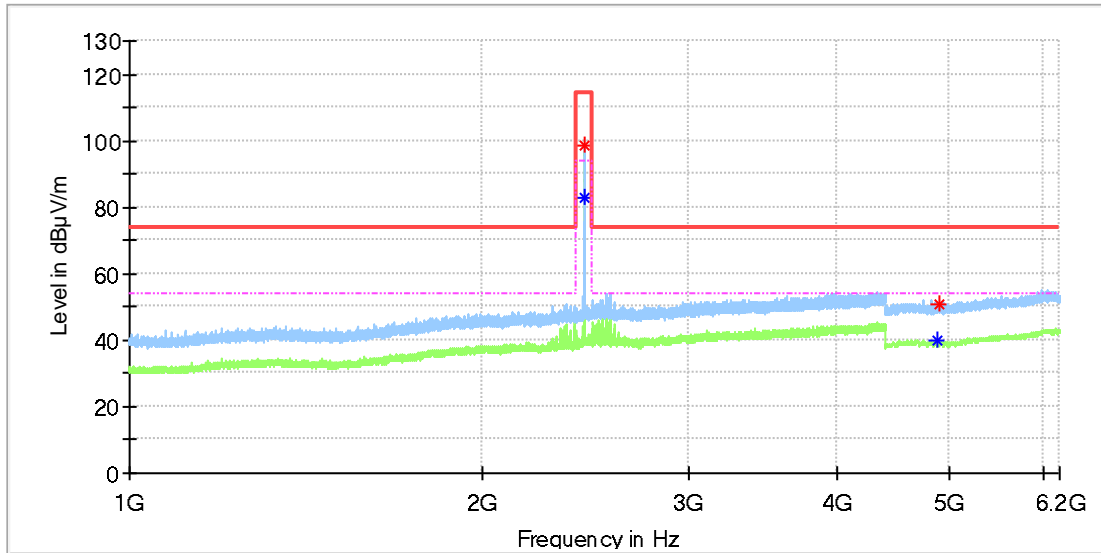


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7203.983333	48.13	---	74.00	25.87	100.0	V	183.0	8.8
7203.983333	---	43.10	54.00	10.90	100.0	V	183.0	8.8

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_Mid channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

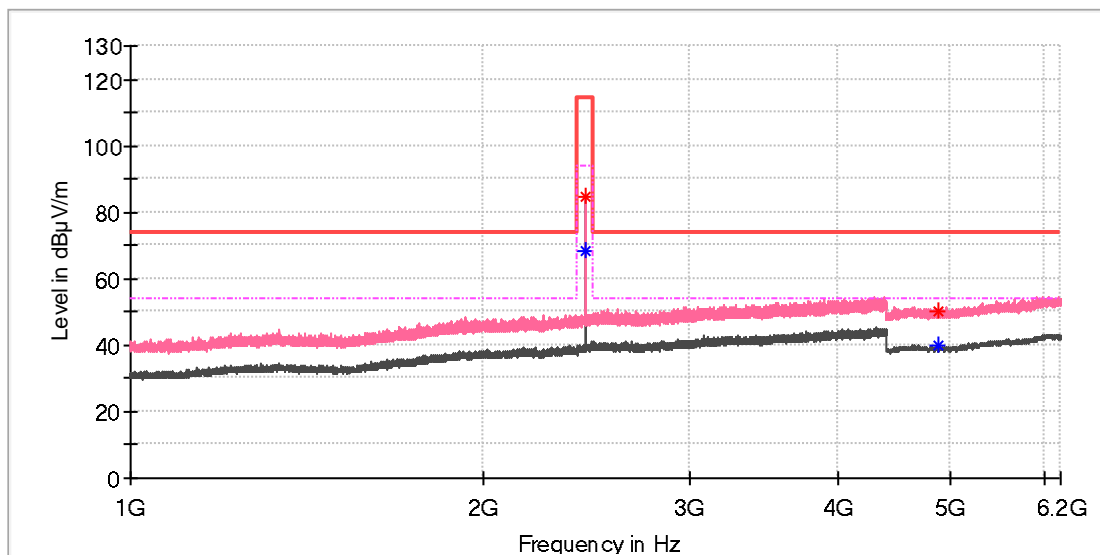


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2440.580000	98.45	---	114.00	15.55	100.0	H	185.0	7.4
2441.600000	---	82.86	94.00	11.14	100.0	H	185.0	7.4
4879.500000	---	39.75	54.00	14.25	100.0	H	15.0	11.8
4899.500000	51.02	---	74.00	22.98	100.0	H	118.0	11.8

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_Mid channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

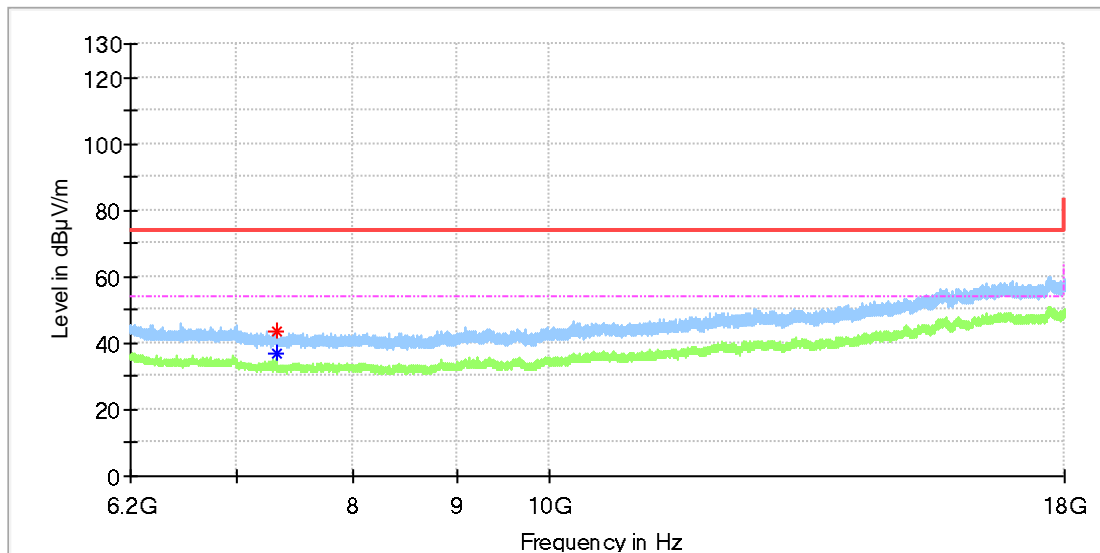


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2438.710000	---	68.53	94.00	25.47	100.0	V	306.0	7.4
2439.390000	84.61	---	114.00	29.39	100.0	V	306.0	7.4
4873.000000	50.38	---	74.00	23.62	100.0	V	188.0	11.8
4880.000000	---	39.80	54.00	14.20	100.0	V	12.0	11.8

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_Mid channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

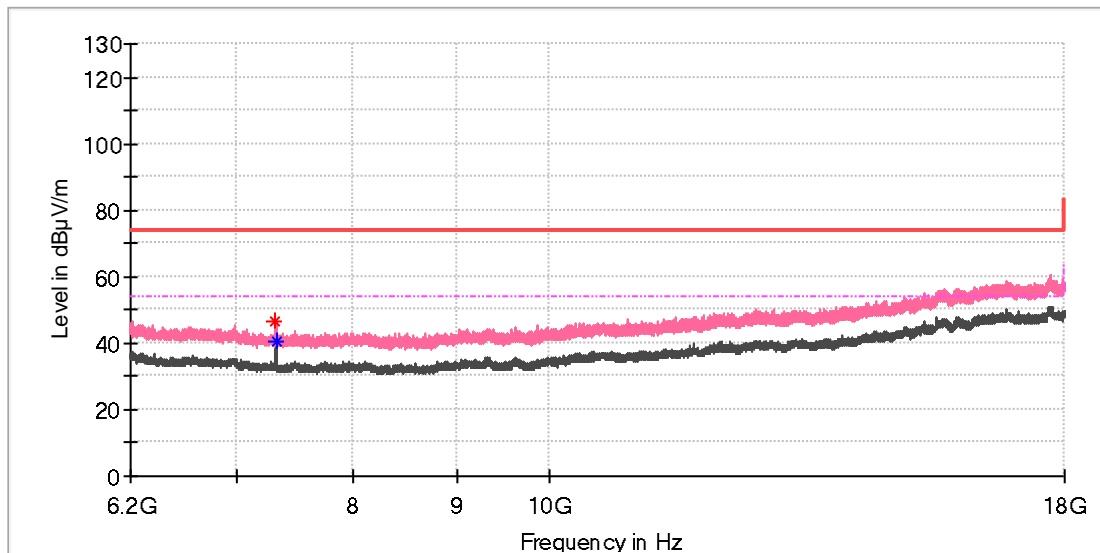


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7318.541667	43.46	---	74.00	30.54	100.0	H	83.0	8.2
7321.000000	---	36.75	54.00	17.25	100.0	H	165.0	8.2

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_Mid channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

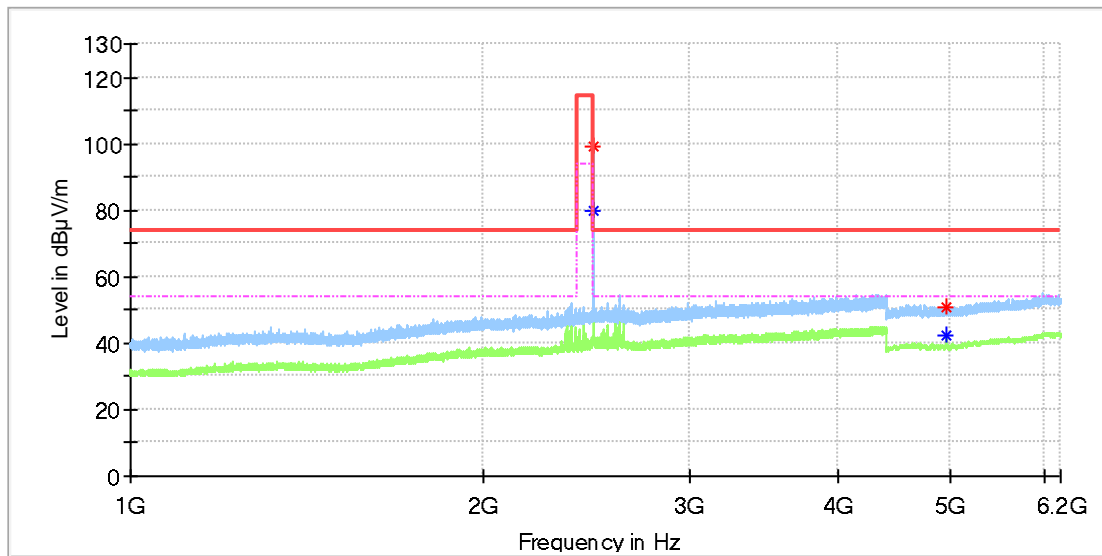


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7318.050000	46.63	---	74.00	27.37	100.0	V	170.0	8.2
7318.541667	---	40.51	54.00	13.49	100.0	V	170.0	8.2

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_High channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

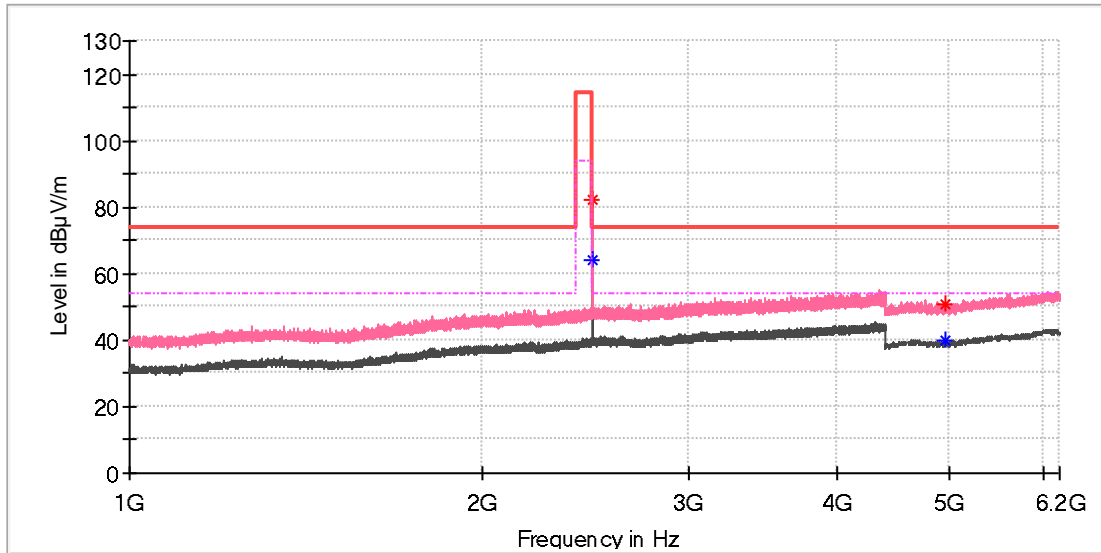


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.530000	99.23	---	114.00	14.77	100.0	H	197.0	7.4
2481.550000	---	79.80	94.00	14.20	100.0	H	197.0	7.4
4958.500000	50.63	---	74.00	23.37	100.0	H	347.0	11.8
4959.500000	---	42.08	54.00	11.92	100.0	H	144.0	11.8

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_High channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

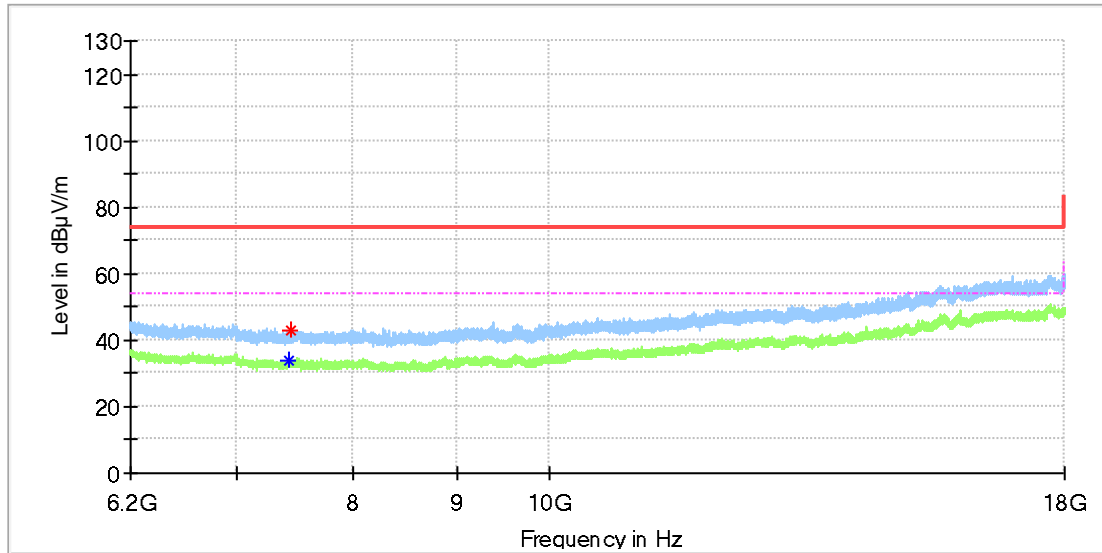


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.530000	82.02	---	114.00	31.98	100.0	V	112.0	7.4
2481.550000	---	63.98	94.00	30.02	100.0	V	112.0	7.4
4957.500000	50.54	---	74.00	23.46	100.0	V	290.0	11.8
4960.000000	---	40.19	54.00	13.81	100.0	V	235.0	11.8

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_High channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

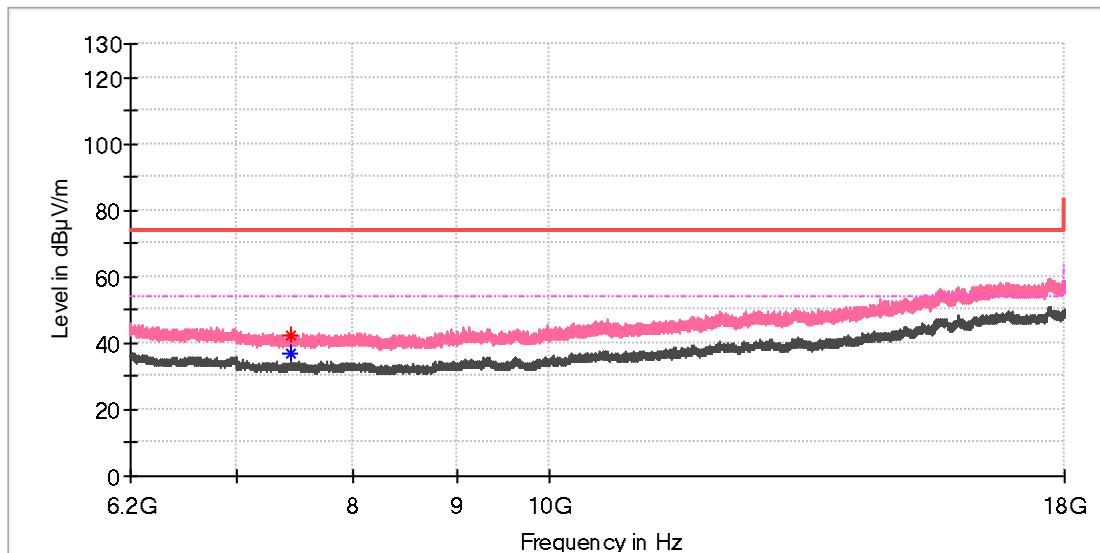


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7434.575000	---	33.74	54.00	20.26	100.0	H	323.0	8.4
7440.475000	42.86	---	74.00	31.14	100.0	H	179.0	8.4

EUT Information

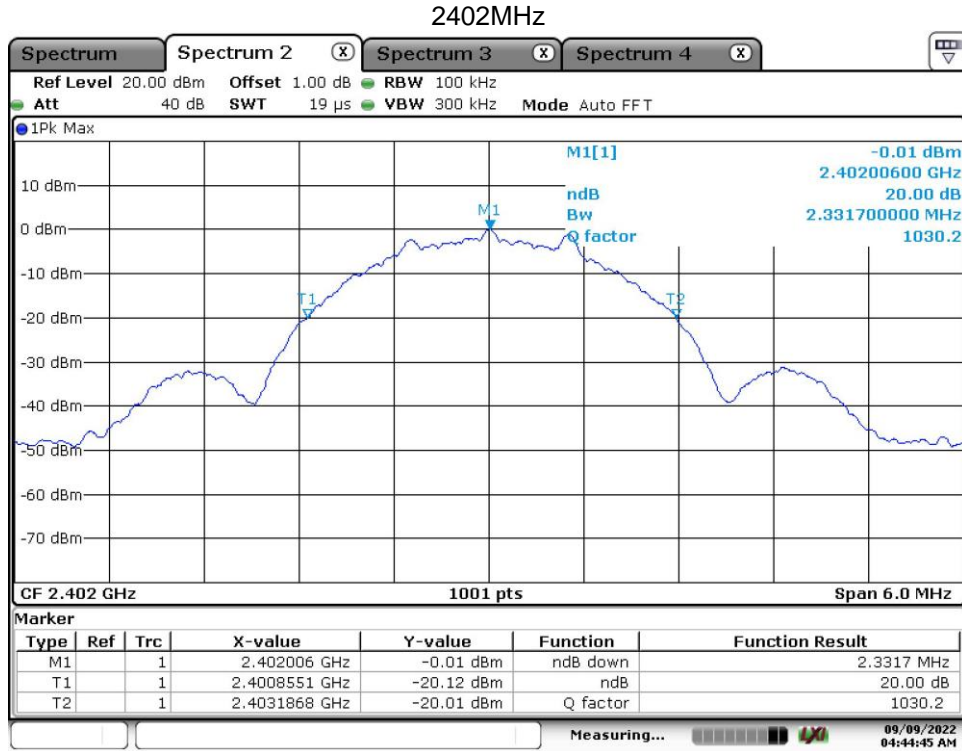
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Model:	MOBTP0L
Test Mode:	2.4G_High channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



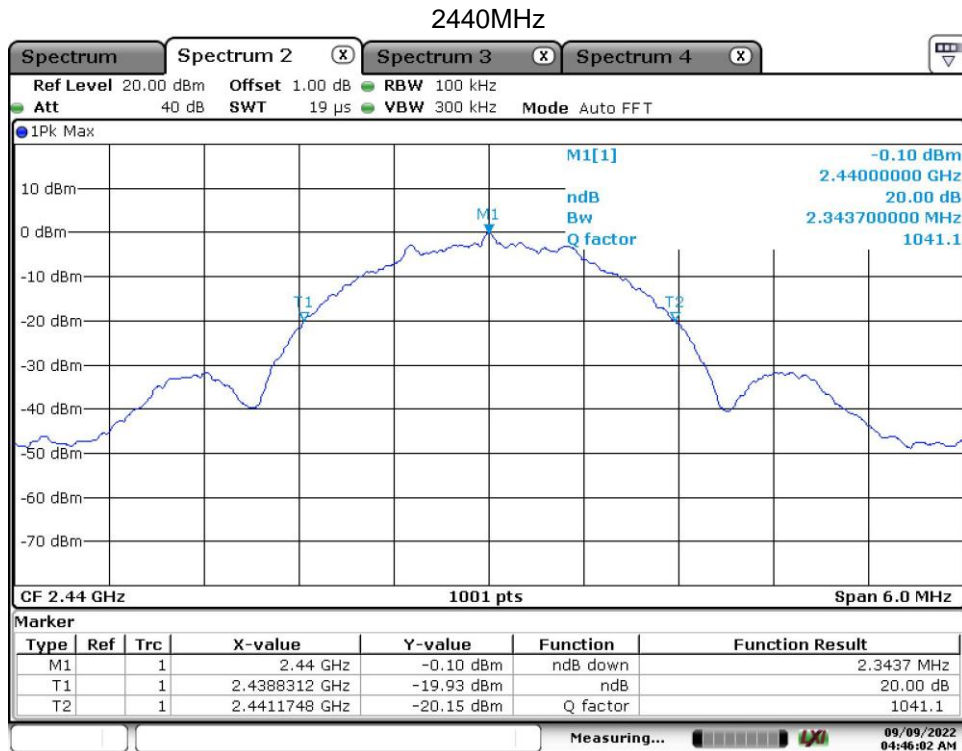
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7440.966667	---	36.88	54.00	17.12	100.0	V	108.0	8.4
7445.883333	42.56	---	74.00	31.44	100.0	V	2.0	8.5

Appendix B.2: Test Results of 20dB Bandwidth

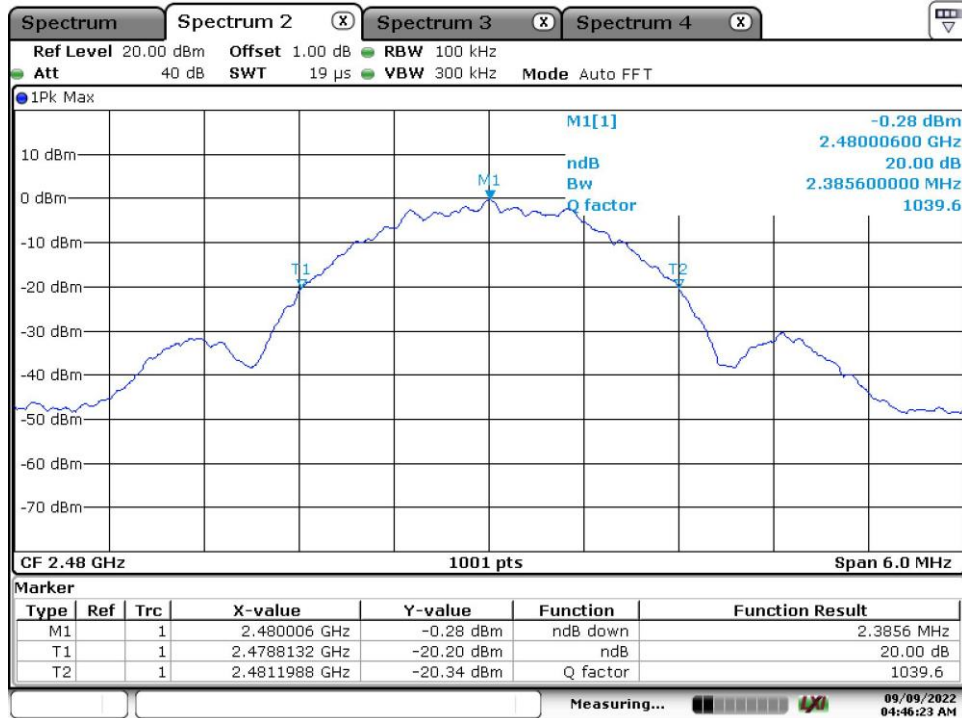


Date: 9.SEP.2022 04:44:46



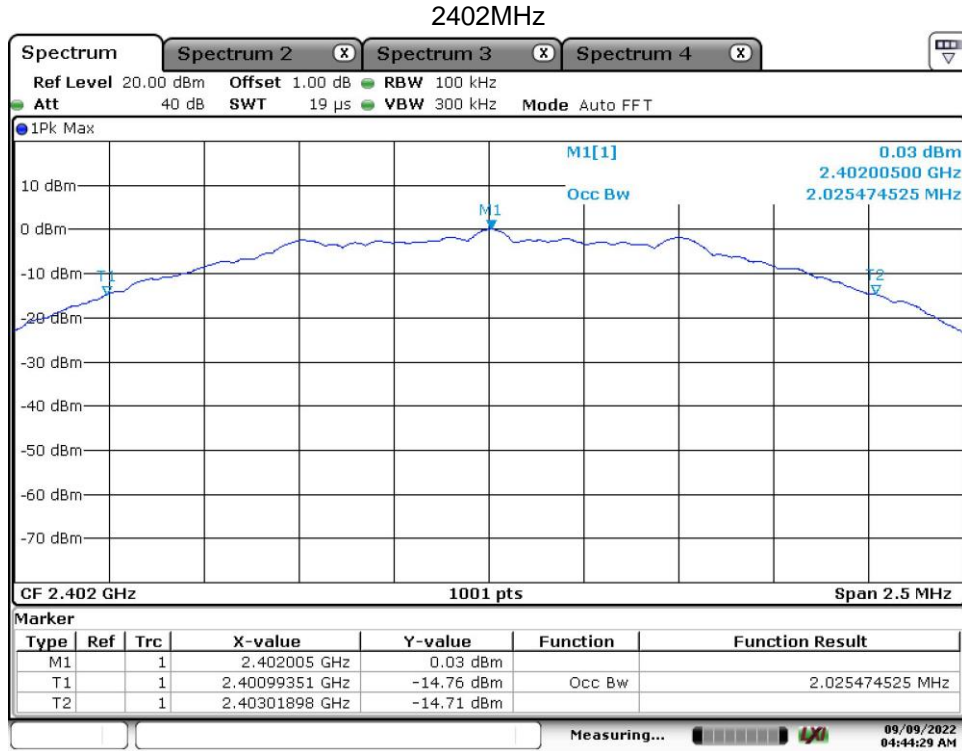
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2480MHz

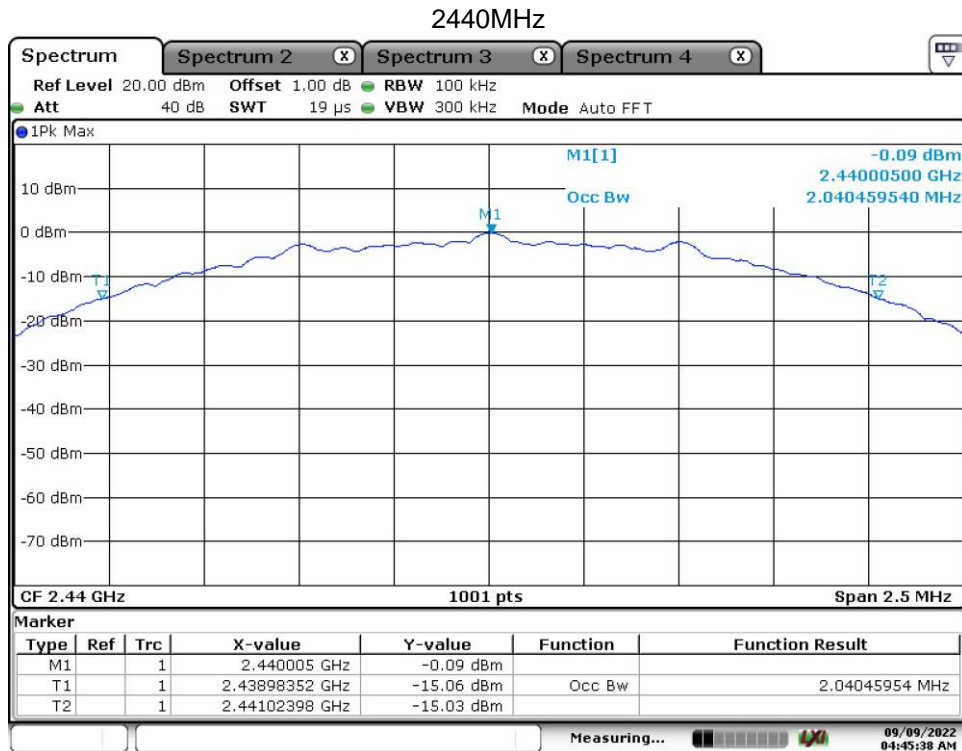


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Appendix B.3: Test Results of 99% Bandwidth

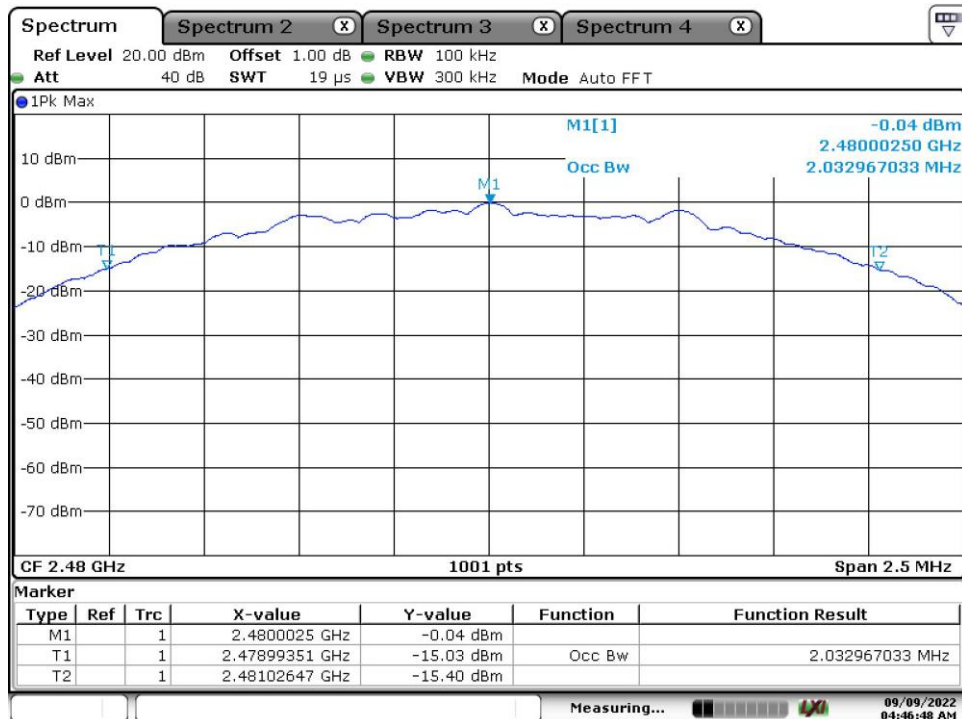


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Date: 9.SEP.2022 04:45:38

2480MHz

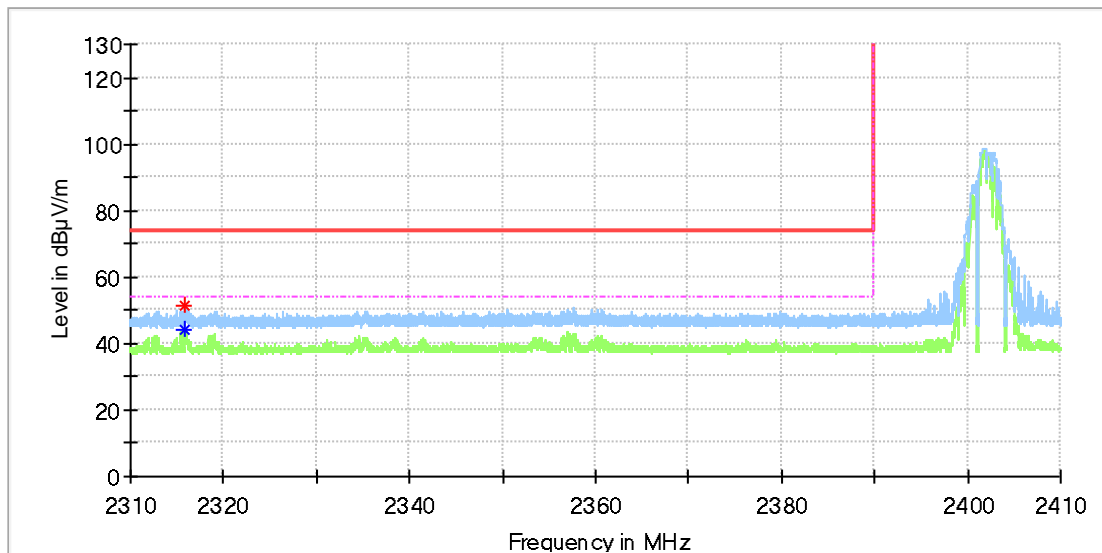


Date: 9.SEP.2022 04:46:48

Appendix B.4: Test Results of Band Edge

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_Low channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

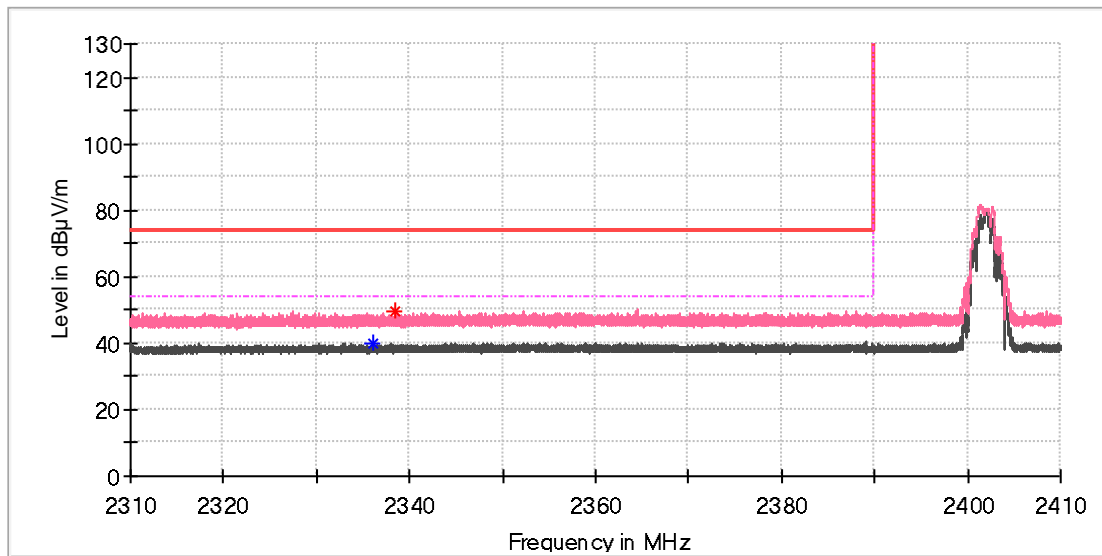


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2315.785000	---	44.09	54.00	9.91	100.0	H	202.0	6.5
2315.790000	51.28	---	74.00	22.72	100.0	H	202.0	6.5

EUT Information

EUT Name: Lenovo Professional Wireless Rechargeable Mouse
 Model: MOBTP0L
 Test Mode: 2.4G_Low channel
 Order No/Sample No: 168387330/A003328181-004
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

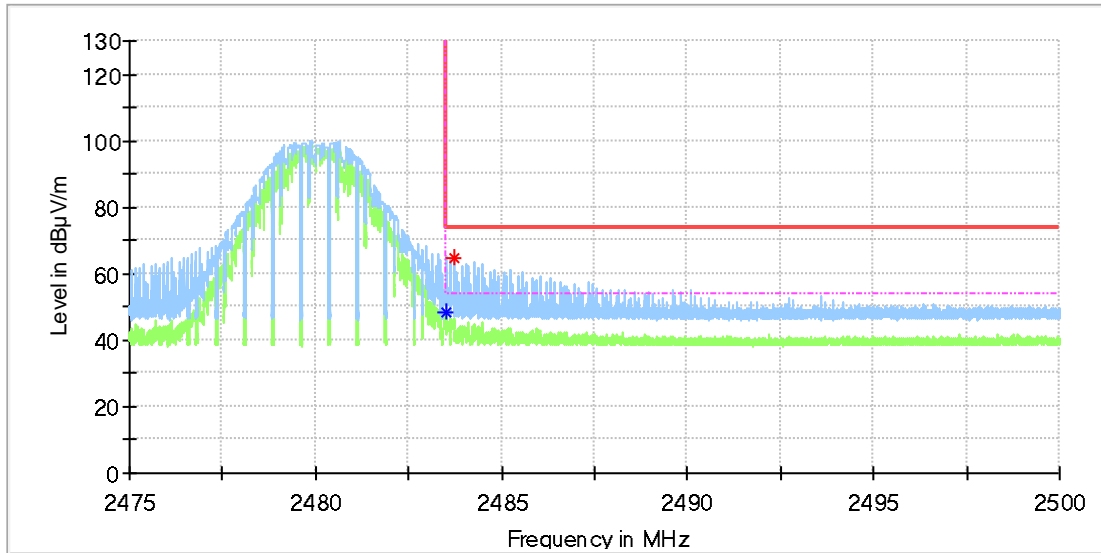


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2336.095000	---	40.14	54.00	13.86	100.0	V	150.0	6.8
2338.425000	49.36	---	74.00	24.64	100.0	V	0.0	6.8

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_High channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

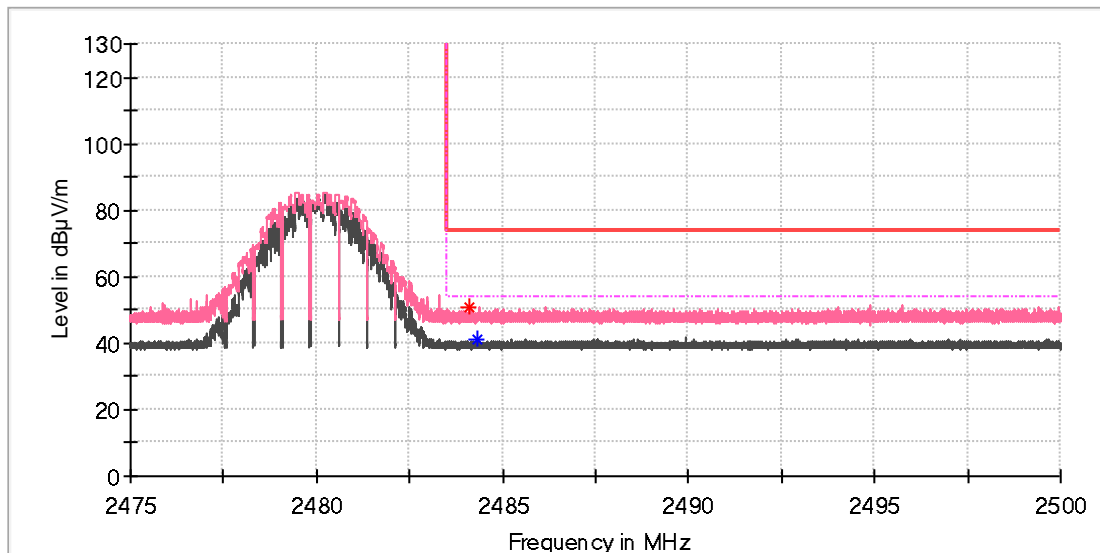


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.517500	---	48.51	54.00	5.49	100.0	H	203.0	7.4
2483.730000	64.98	---	74.00	9.02	100.0	H	211.0	7.4

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Model:	MOBTP0L
Test Mode:	2.4G_High channel
Order No/Sample No:	168387330/A003328181-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



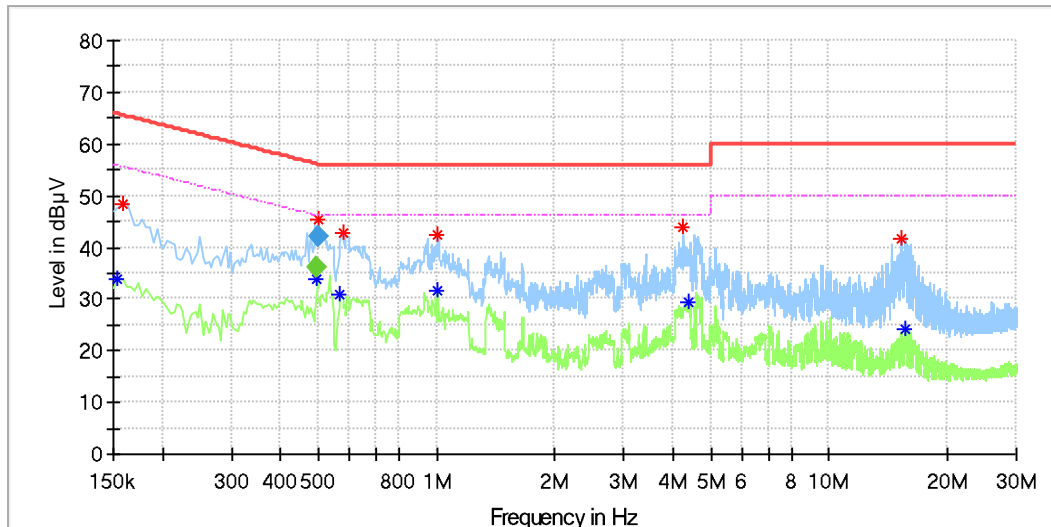
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.082500	50.94	---	74.00	23.06	100.0	V	346.0	7.4
2484.342500	---	40.91	54.00	13.09	100.0	V	210.0	7.4

Appendix B.5: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	Lenovo Professional Wireless Rechargeable Mouse
Order No:	168387330
Model:	MOBTP0L
Test Mode:	Charging + 2.4G
Test Voltage:	AC 120V/60Hz
Test By/Review By:	Kevin Zhou/Gary Chen
Test Standard:	FCC Part 15C
Tem./Hum./Pressure:	24.3°C/52.8%/101kPa
Remark:	SR1



Critical Freqs

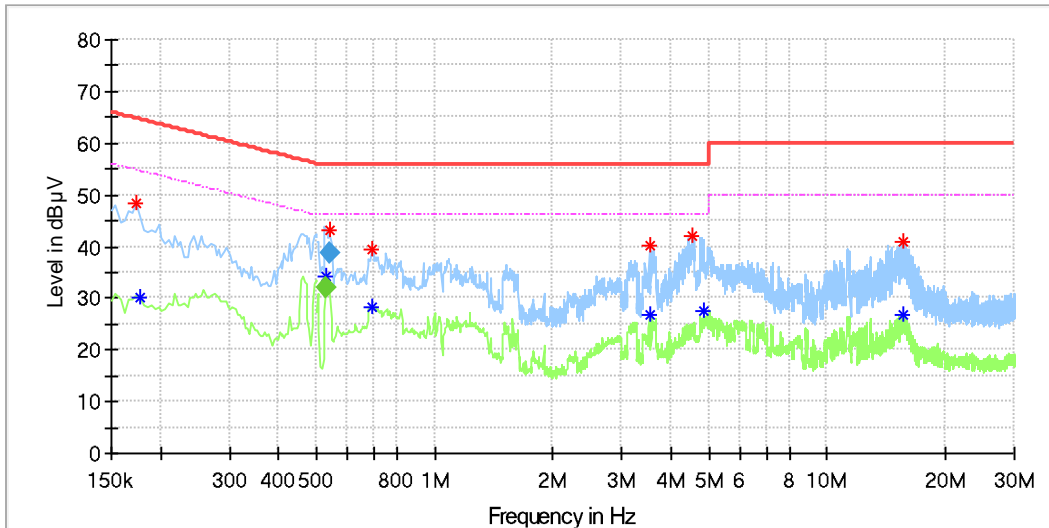
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.154000	---	33.87	55.78	21.92	L1	9.6
0.158000	48.46	---	65.57	17.11	L1	9.6
0.492500	---	33.89	46.03	12.14	L1	9.7
0.500000	45.54	---	56.10	10.56	L1	9.7
0.568000	---	30.72	46.00	15.28	L1	9.7
0.576000	42.67	---	56.00	13.33	L1	9.7
1.008000	42.35	---	56.00	13.65	L1	9.7
1.008000	---	31.57	46.00	14.43	L1	9.7
4.260000	44.08	---	56.00	11.92	L1	9.9
4.360000	---	29.42	46.00	16.58	L1	9.9
15.256000	41.59	---	60.00	18.41	L1	10.2
15.592000	---	24.09	50.00	25.91	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.492500	---	36.07	46.13	10.05	1000.0	9.000	L1	9.7
0.500000	42.20	---	56.00	13.80	1000.0	9.000	L1	9.7

EUT Information

EUT Name: Lenovo Professional Wireless Rechargeable Mouse
 Order No: 168387330
 Model: MOBTP0L
 Test Mode: Charging + 2.4G
 Test Voltage: AC 120V/60Hz
 Test By/Review By: Kevin Zhou/Gary Chen
 Test Standard: FCC Part 15C
 Tem./Hum./Pressure: 24.3°C/52.8%/101kPa
 Remark: SR1



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.174000	48.32	---	64.77	16.45	N	9.6
0.178000	---	30.06	54.58	24.52	N	9.6
0.530500	---	34.24	46.00	11.76	N	9.7
0.541500	43.03	---	56.00	12.97	N	9.7
0.692000	39.31	---	56.00	16.69	N	9.7
0.696000	---	28.28	46.00	17.72	N	9.7
3.520000	---	26.97	46.00	19.03	N	9.9
3.520000	40.24	---	56.00	15.76	N	9.9
4.552000	42.06	---	56.00	13.94	N	10.0
4.852000	---	27.48	46.00	18.52	N	10.0
15.676000	40.98	---	60.00	19.02	N	10.2
15.708000	---	26.92	50.00	23.08	N	10.2

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.530500	---	31.96	46.00	14.04	1000.0	9.000	N	9.7
0.541500	38.74	---	56.00	17.26	1000.0	9.000	N	9.7