

Appendix C: Test Results of 2.4GHz SRD

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Appendix C.1: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2402	1.120	2401.440	2402.560	0.5	PASS
		2440	1.136	2439.424	2440.560	0.5	PASS
		2480	1.096	2479.444	2480.540	0.5	PASS

Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2440



2.4G_Ant1_2480

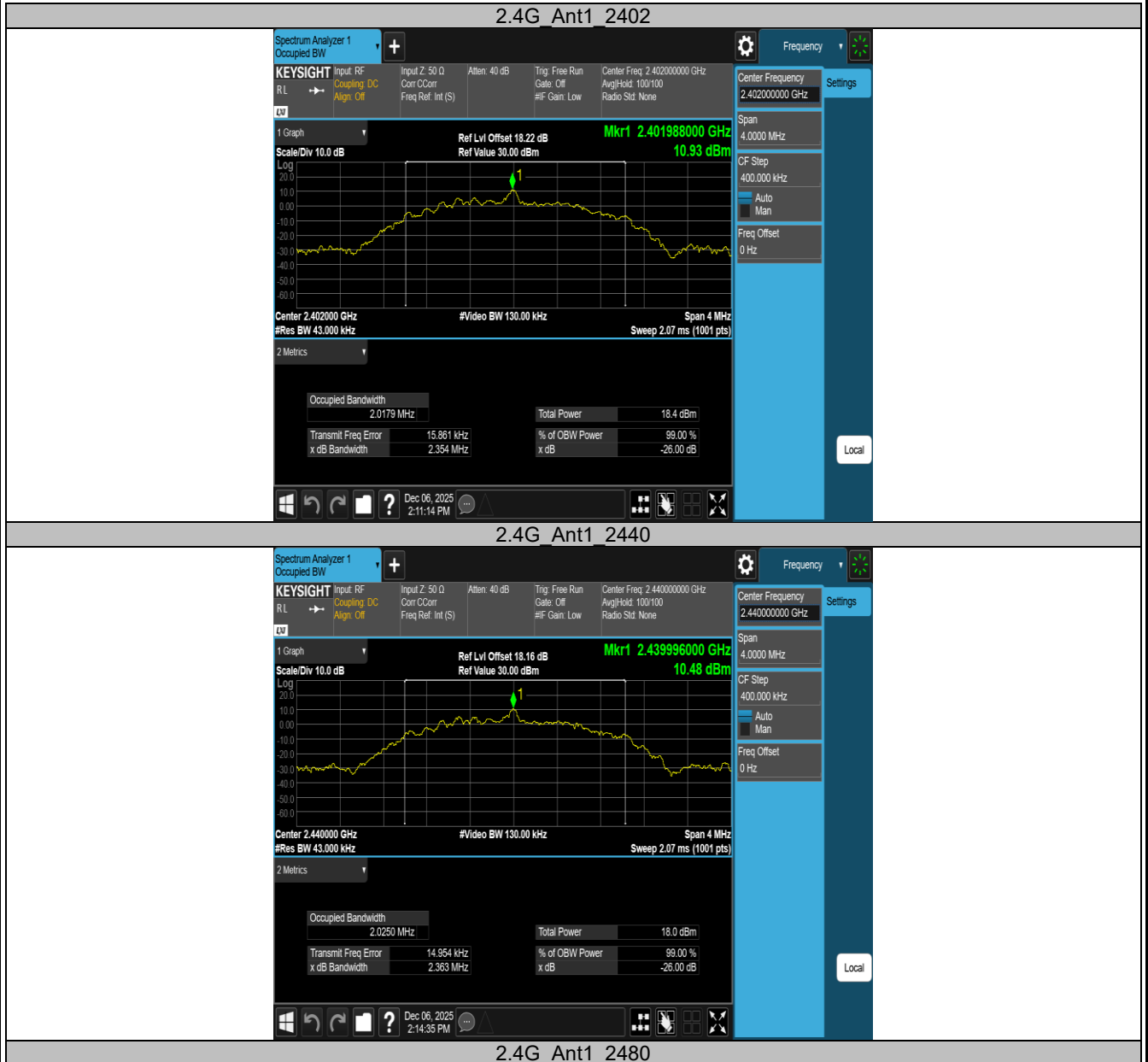


Appendix C.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2402	2.0179	2401.0069	2403.0248	---	PASS
		2440	2.0250	2439.0025	2441.0275	---	PASS
		2480	2.0265	2479.0019	2481.0284	---	PASS

Test Graphs





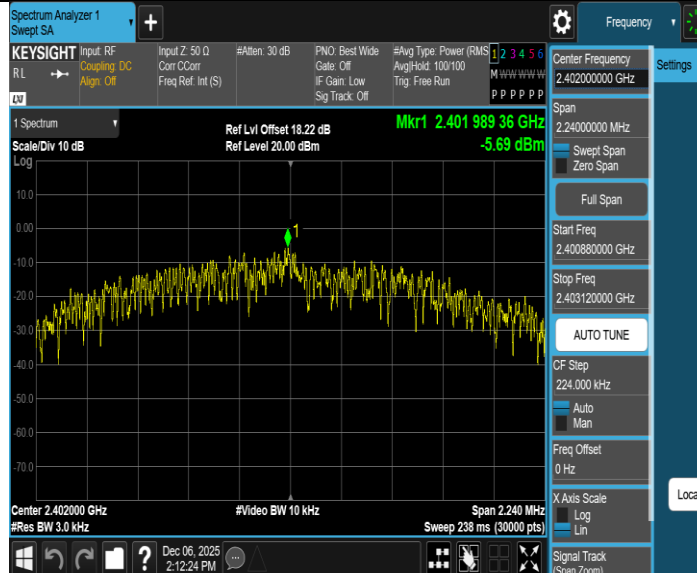
Appendix C.3: Test Results of Conducted Power Spectral Density

Test Result

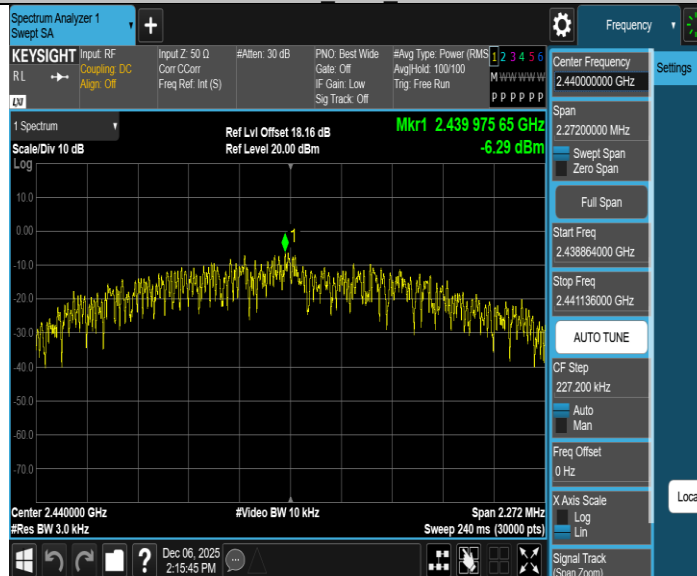
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
2.4G	Ant1	2402	-5.69	≤8.00	PASS
		2440	-6.29	≤8.00	PASS
		2480	-5.76	≤8.00	PASS

Test Graphs

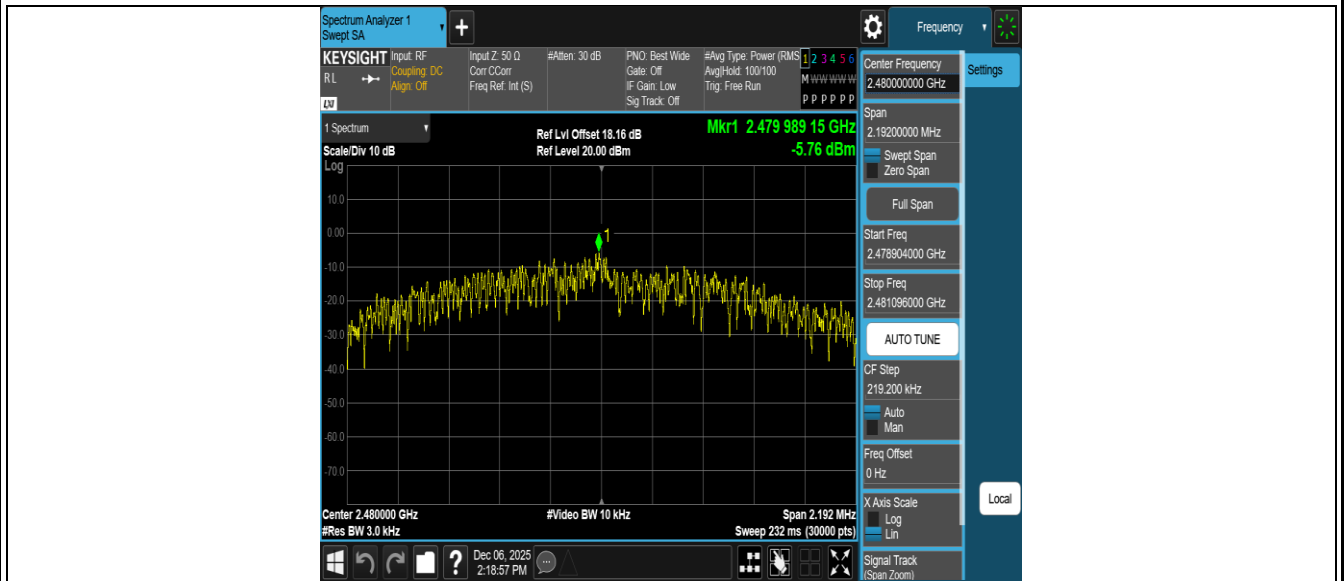
2.4G_Ant1_2402



2.4G_Ant1_2440



2.4G_Ant1_2480



Appendix C.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	10.01	-29.12	≤-9.99	PASS
		High	2480	11.89	-42.53	≤-8.11	PASS

Test Graphs



Appendix C.5: Test Results of Conducted Spurious Emission

Test Result

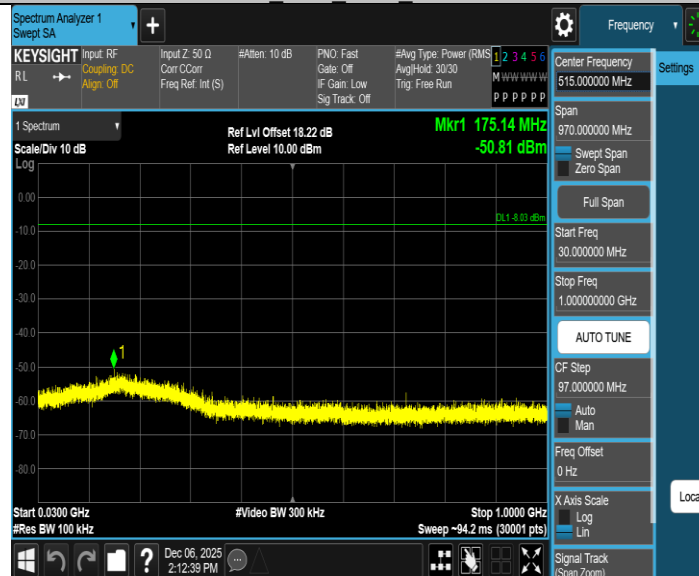
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
2.4G	Ant1	2402	Reference	11.97	11.97	---	PASS
			30~1000	11.97	-50.81	≤-8.03	PASS
			1000~26500	11.97	-53.26	≤-8.03	PASS
		2440	Reference	11.56	11.56	---	PASS
			30~1000	11.56	-51.79	≤-8.44	PASS
			1000~26500	11.56	-52.96	≤-8.44	PASS
		2480	Reference	11.87	11.87	---	PASS
			30~1000	11.87	-51.91	≤-8.13	PASS
			1000~26500	11.87	-53.63	≤-8.13	PASS

Test Graphs

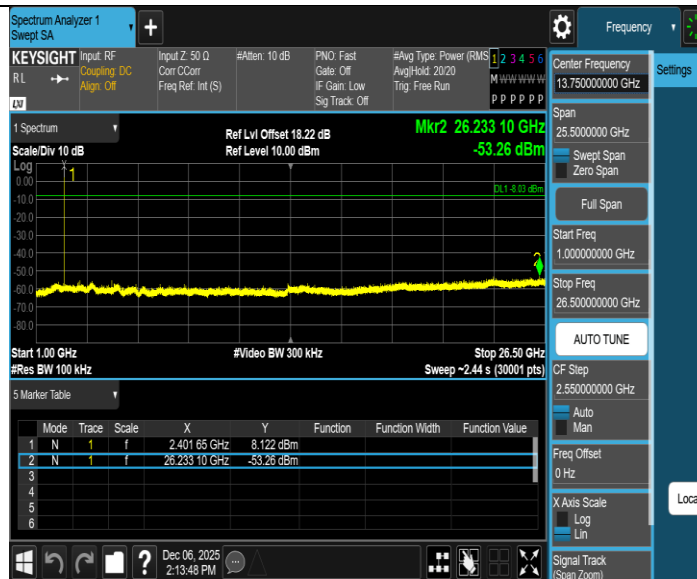
2.4G Ant1_2402_0~Reference



2.4G Ant1_2402_30~1000



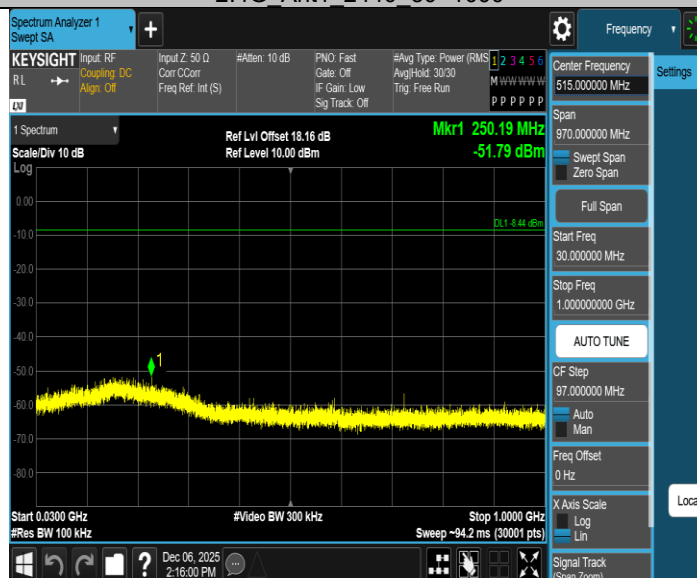
2.4G Ant1_2402_1000~26500



2.4G Ant1 2440 0~Reference



2.4G Ant1 2440 30~1000



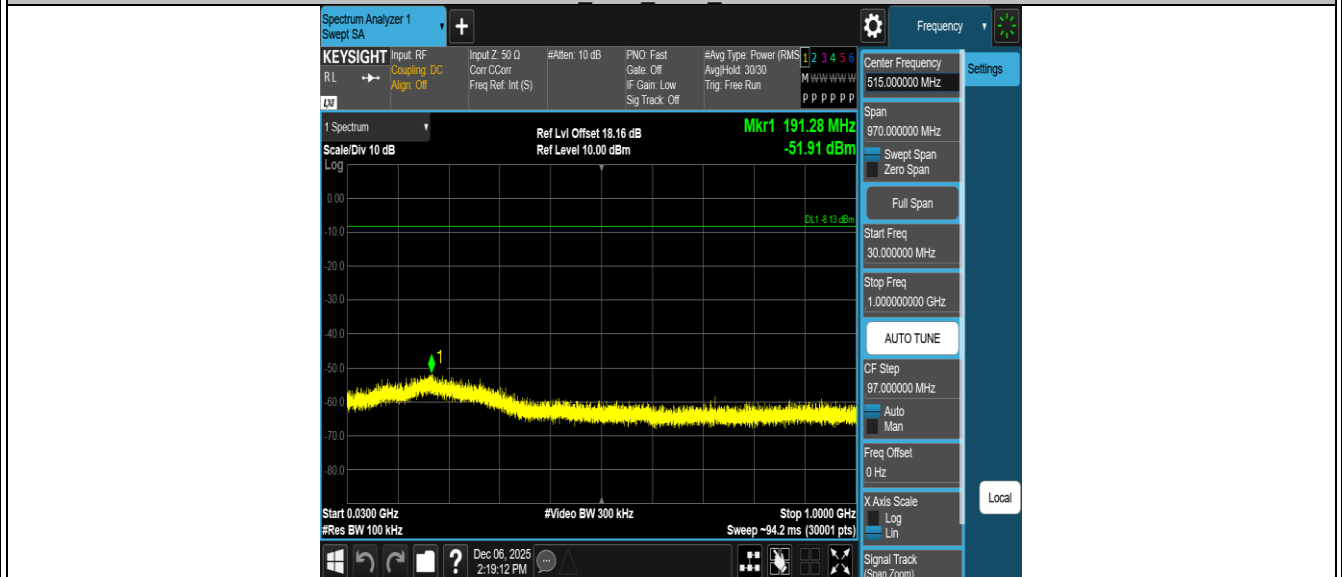
2.4G Ant1 2440 1000~26500



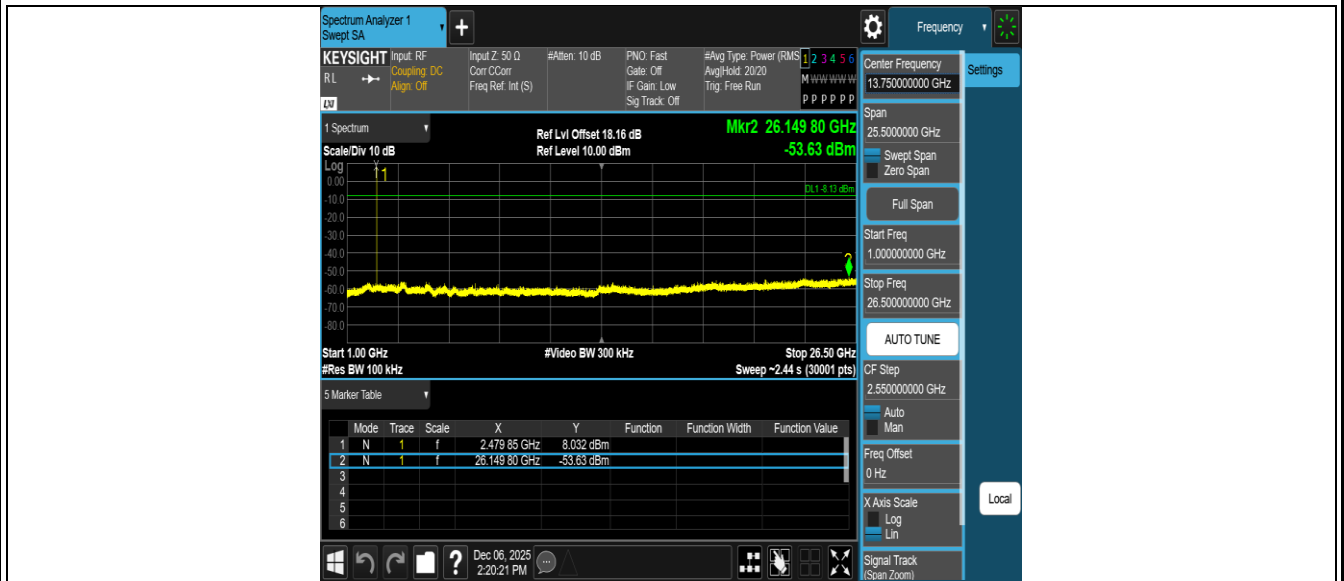
2.4G Ant1 2480 0~Reference



2.4G Ant1 2480 30~1000



2.4G Ant1 2480 1000~26500



Appendix C.6: Test Results of Radiated Spurious Emissions

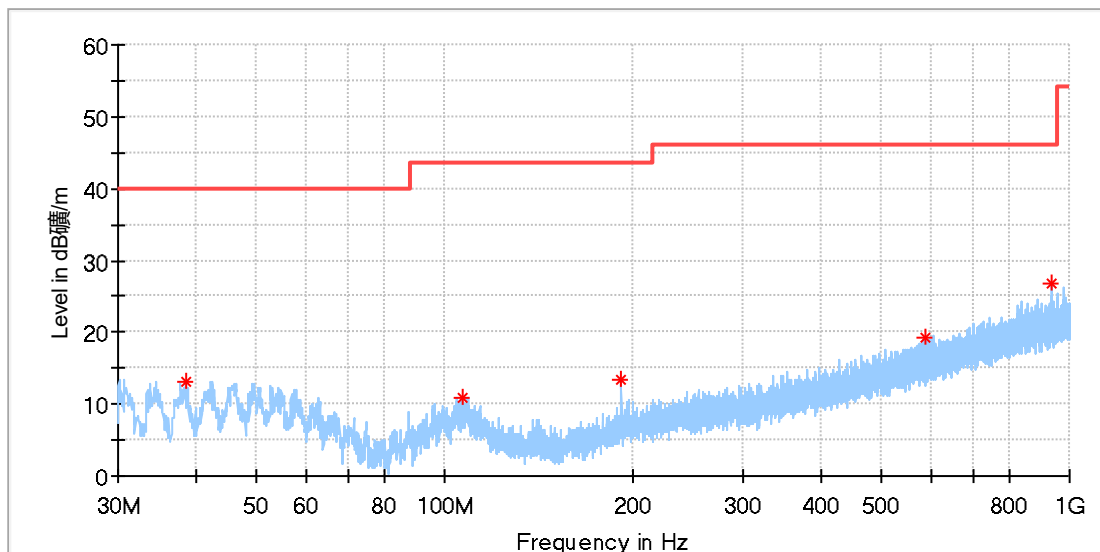
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz

EUT Information

EUT Name:	ThinkPad Dual-Mode Wireless ANC Foldable Headset 8550
Model:	LB520NC
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

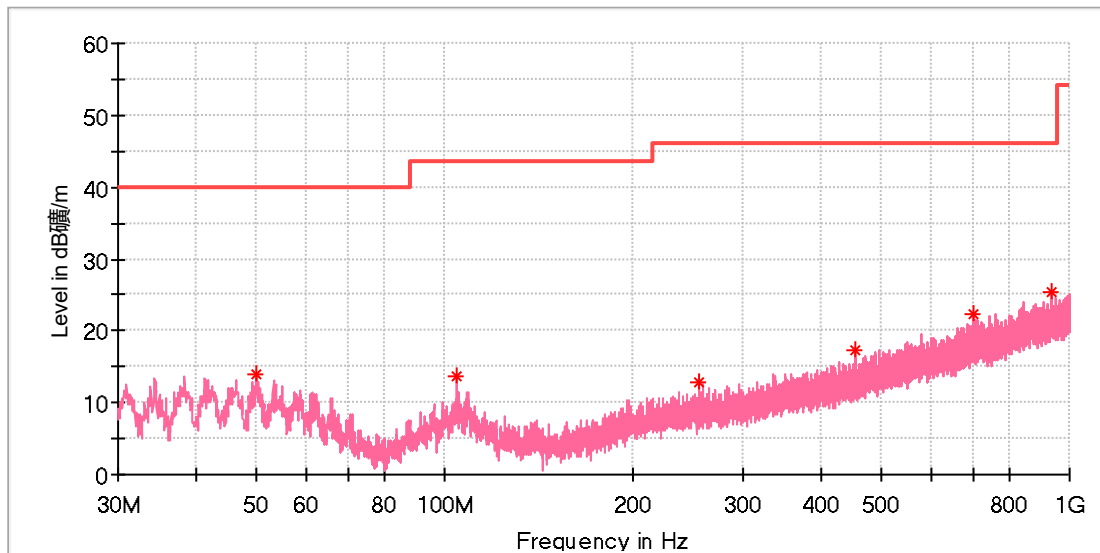
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.460556	13.07	40.00	26.93	100.0	H	176.0	-20.7
106.414444	10.85	43.50	32.65	100.0	H	110.0	-19.0
191.990000	13.40	43.50	30.10	100.0	H	341.0	-19.5
588.073333	19.17	46.00	26.83	100.0	H	208.0	-10.0
938.458889	26.89	46.00	19.11	100.0	H	341.0	-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:	ThinkPad Dual-Mode Wireless ANC Foldable Headset 8550
Model:	LB520NC
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Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
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Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.046667	13.89	40.00	26.11	100.0	V	287.0	-18.4
104.636111	13.62	43.50	29.88	100.0	V	78.0	-18.9
256.010000	12.76	46.00	33.24	100.0	V	0.0	-17.2
454.967778	17.36	46.00	28.64	100.0	V	196.0	-12.7
703.988333	22.34	46.00	23.66	100.0	V	246.0	-7.9
937.003889	25.35	46.00	20.65	100.0	V	261.0	-4.4

Final_Result

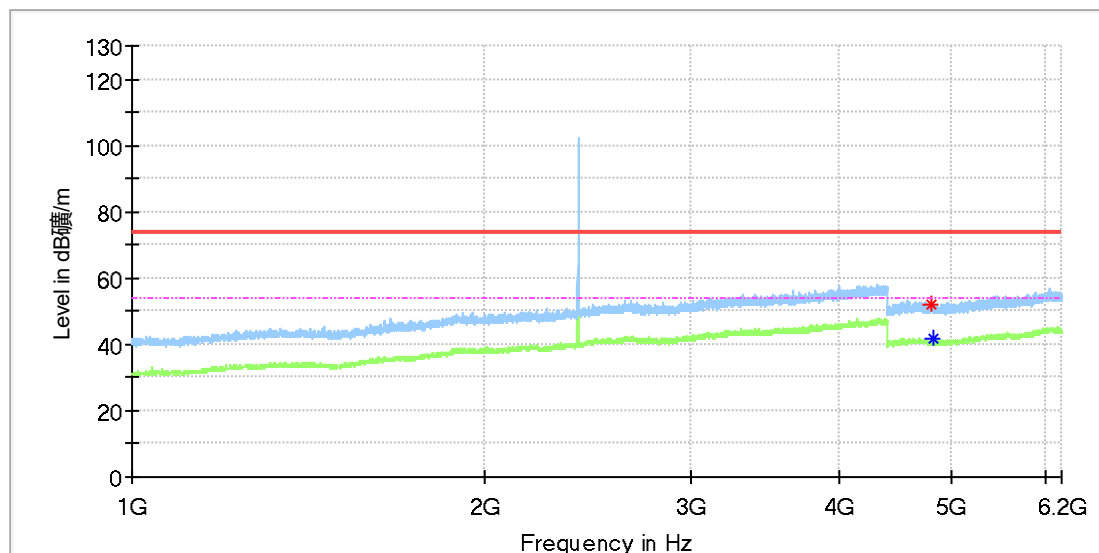
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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1GHz - 18GHz

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

EUT Information

EUT Name:	ThinkPad Dual-Mode Wireless ANC Foldable Headset 8550
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Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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)
4809.000000	52.13	---	74.00	21.87	150.0	H	65.0	13.3
4812.500000	---	41.60	54.00	12.40	150.0	H	110.0	13.3

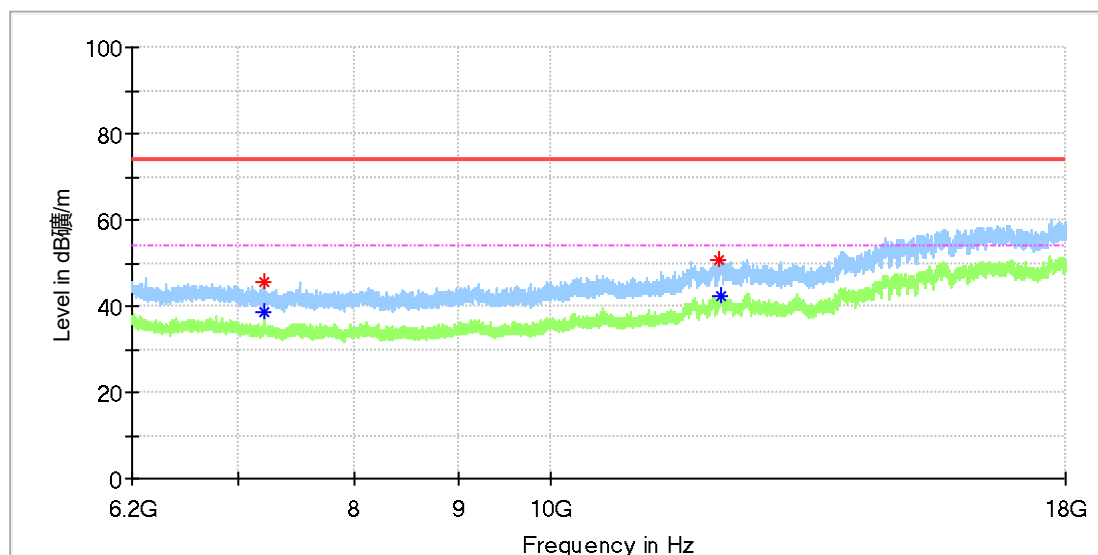
Final Result

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

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

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Critical_Freqs

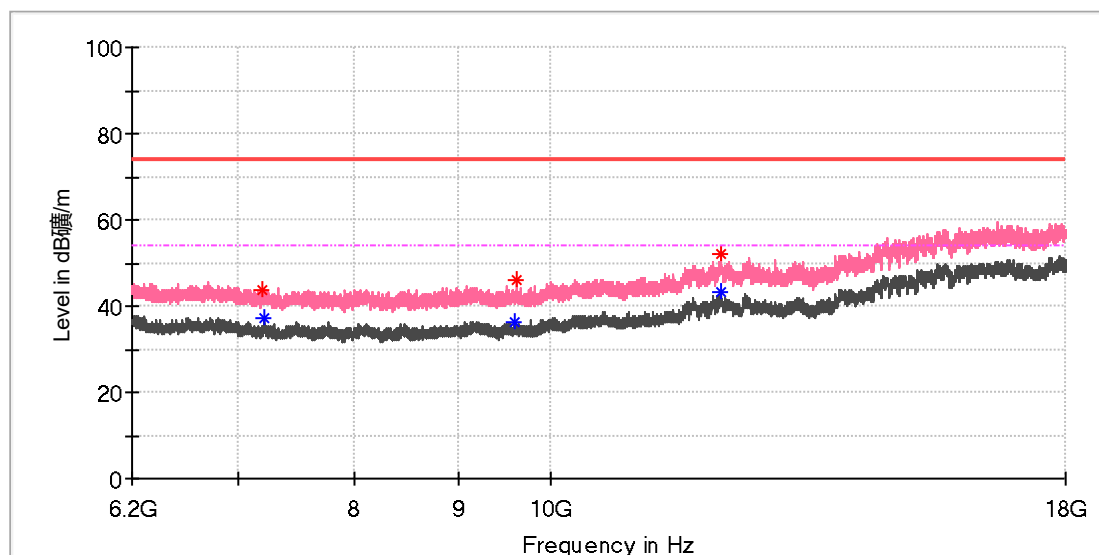
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.475000	45.46	---	74.00	28.54	150.0	H	124.0	8.8
7204.475000	---	38.70	54.00	15.30	150.0	H	124.0	8.8
12119.175000	50.87	---	74.00	23.13	150.0	H	68.0	15.9
12134.416667	---	42.24	54.00	11.76	150.0	H	31.0	16.3

Final Result

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

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Critical_Freqs

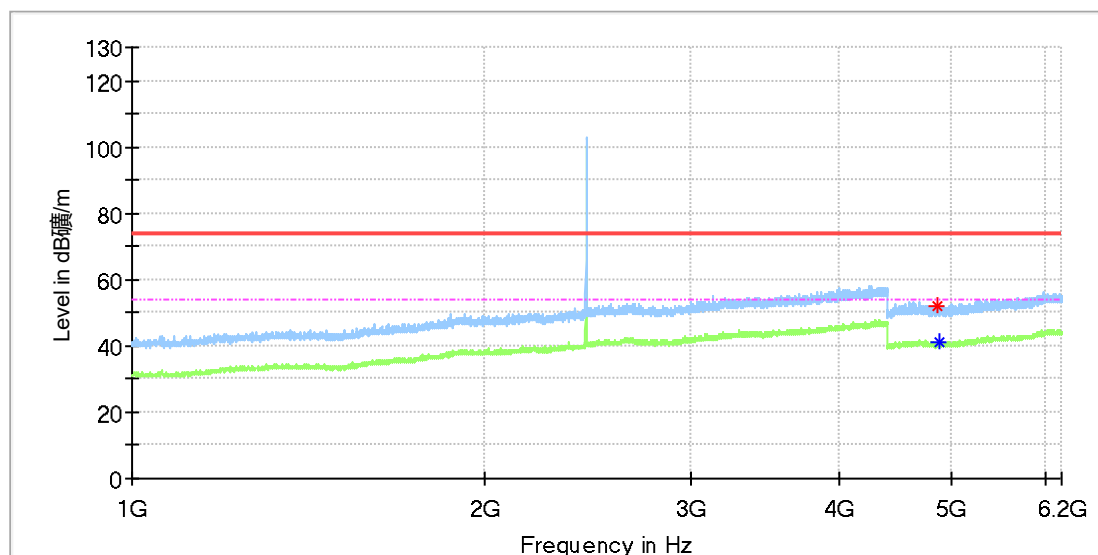
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7192.183333	43.76	---	74.00	30.24	150.0	V	344.0	8.8
7205.950000	---	37.36	54.00	16.64	150.0	V	276.0	8.8
9590.533333	---	36.39	54.00	17.61	150.0	V	238.0	10.3
9625.441667	45.87	---	74.00	28.13	150.0	V	192.0	10.4
12139.825000	51.92	---	74.00	22.08	150.0	V	148.0	16.5
12144.741667	---	43.33	54.00	10.67	150.0	V	182.0	16.6

Final Result

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

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Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

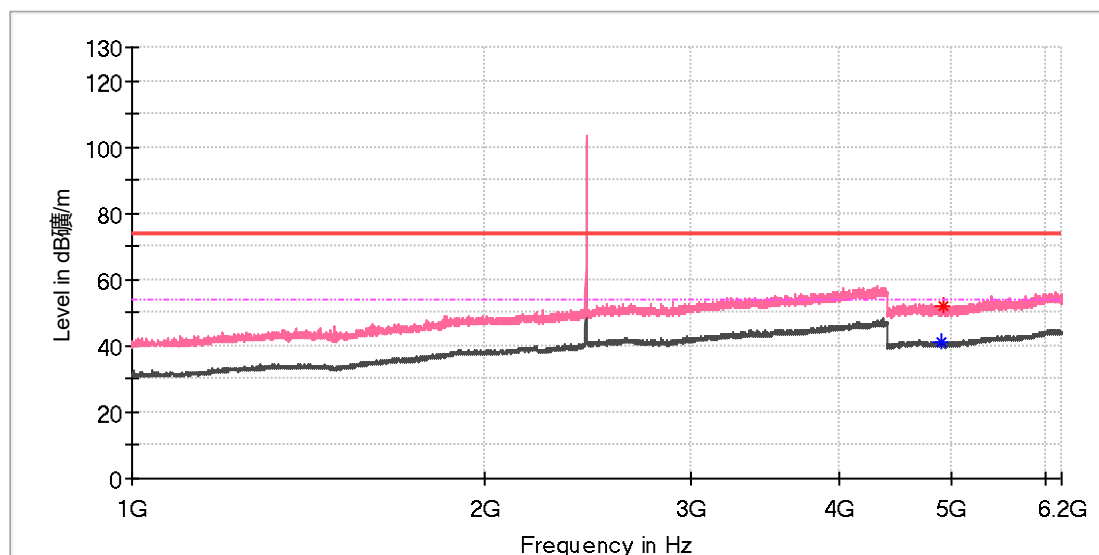
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4855.500000	52.01	---	74.00	21.99	150.0	H	303.0	13.3
4870.000000	---	40.85	54.00	13.15	150.0	H	124.0	13.3

Final Result

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

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Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
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Critical_Freqs

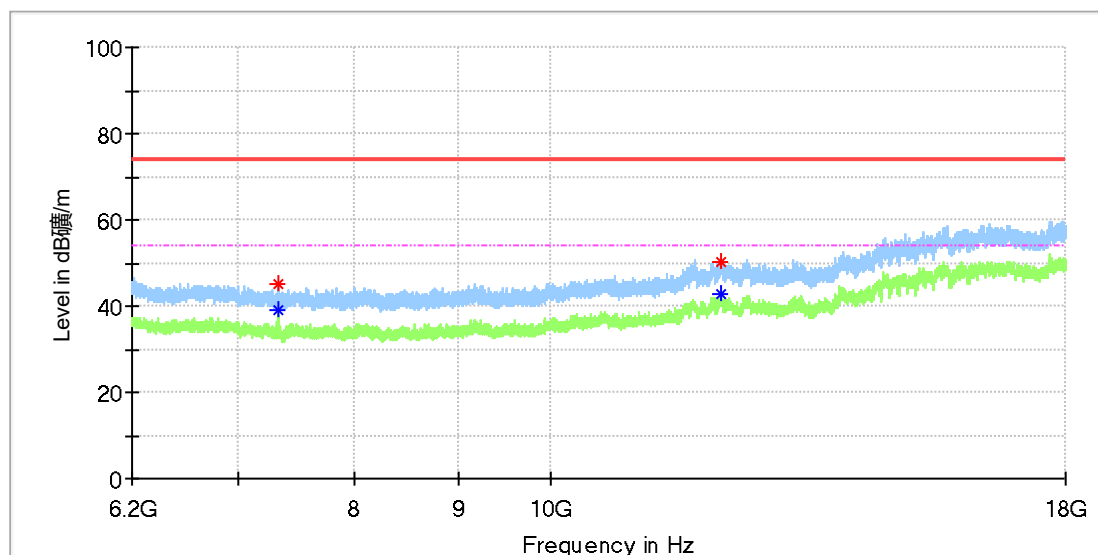
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4905.000000	---	41.19	54.00	12.81	150.0	V	321.0	13.3
4911.500000	52.07	---	74.00	21.93	150.0	V	359.0	13.3

Final Result

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

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Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

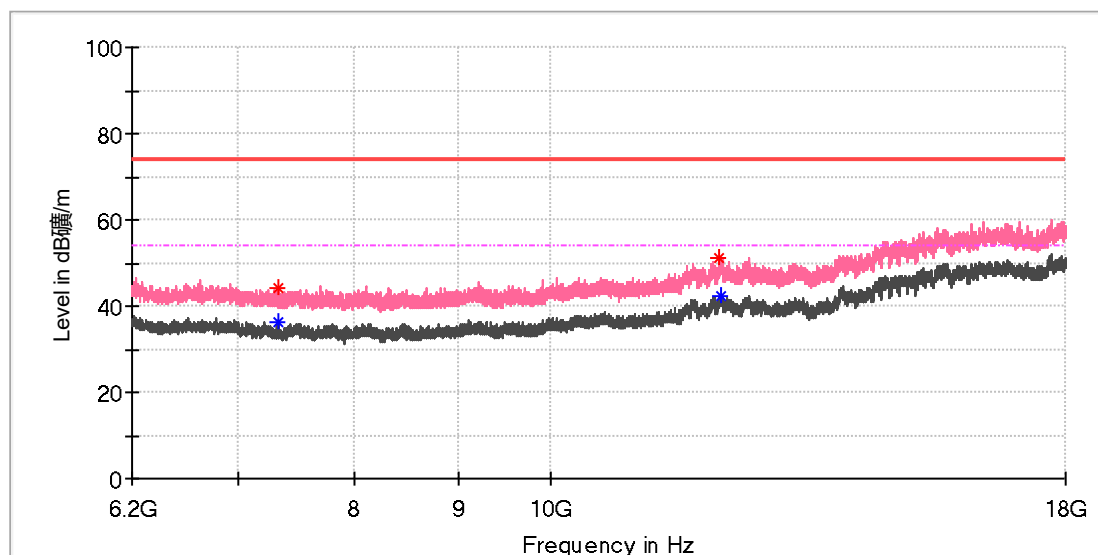
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7321.000000	---	39.18	54.00	14.82	150.0	H	268.0	8.2
7321.491667	45.15	---	74.00	28.85	150.0	H	291.0	8.2
12134.416667	---	42.97	54.00	11.03	150.0	H	21.0	16.3
12135.400000	50.09	---	74.00	23.91	150.0	H	98.0	16.3

Final Result

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

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Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

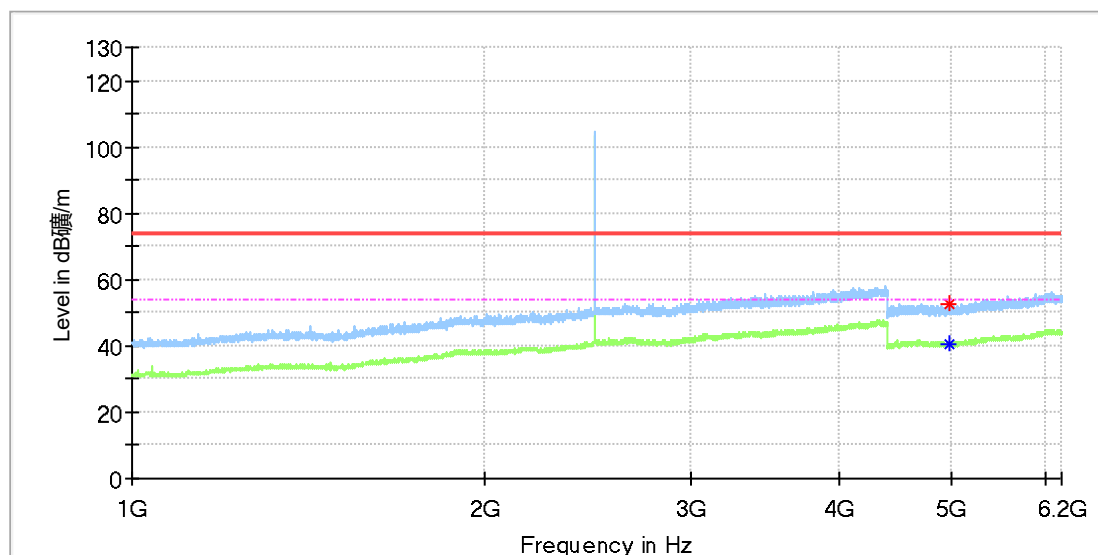
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7318.541667	---	36.50	54.00	17.50	150.0	V	220.0	8.2
7321.000000	44.27	---	74.00	29.73	150.0	V	220.0	8.2
12116.716667	51.38	---	74.00	22.62	150.0	V	152.0	15.9
12135.891667	---	42.49	54.00	11.51	150.0	V	163.0	16.4

Final Result

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

EUT Information

EUT Name:	ThinkPad Dual-Mode Wireless ANC Foldable Headset 8550
Model:	LB520NC
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

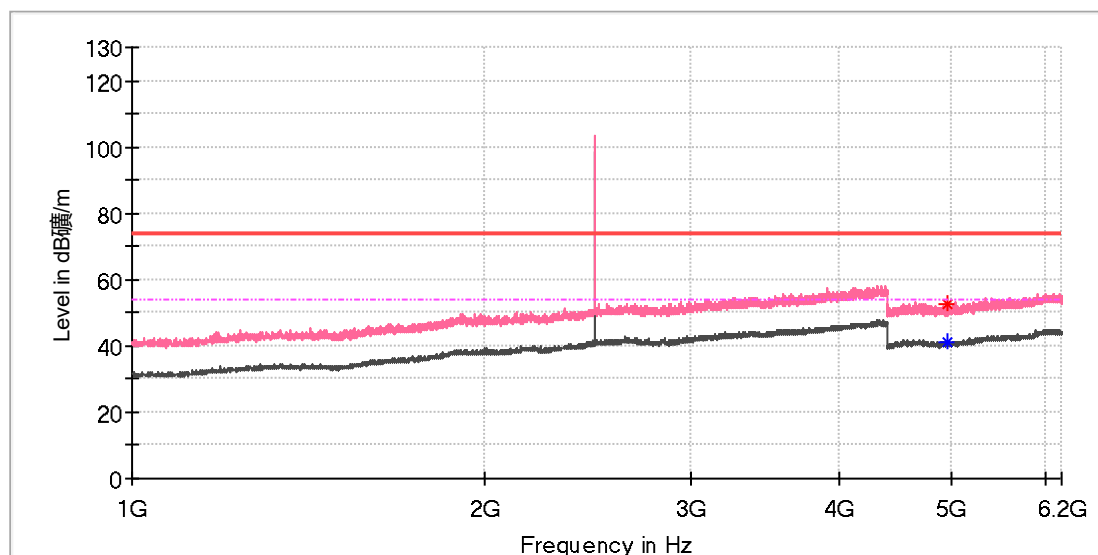
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4969.000000	52.36	---	74.00	21.64	150.0	H	71.0	13.3
4977.500000	---	40.81	54.00	13.19	150.0	H	286.0	13.3

Final Result

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

EUT Information

EUT Name:	ThinkPad Dual-Mode Wireless ANC Foldable Headset 8550
Model:	LB520NC
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

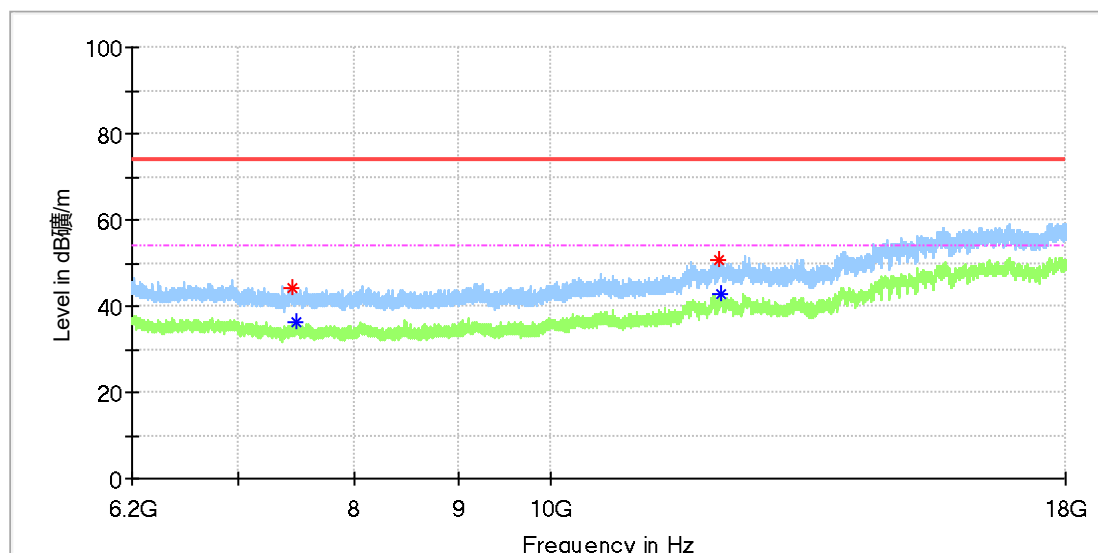
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4957.000000	52.49	---	74.00	21.51	150.0	V	314.0	13.3
4958.000000	---	41.09	54.00	12.91	150.0	V	69.0	13.3

Final Result

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

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Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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Critical_Freqs

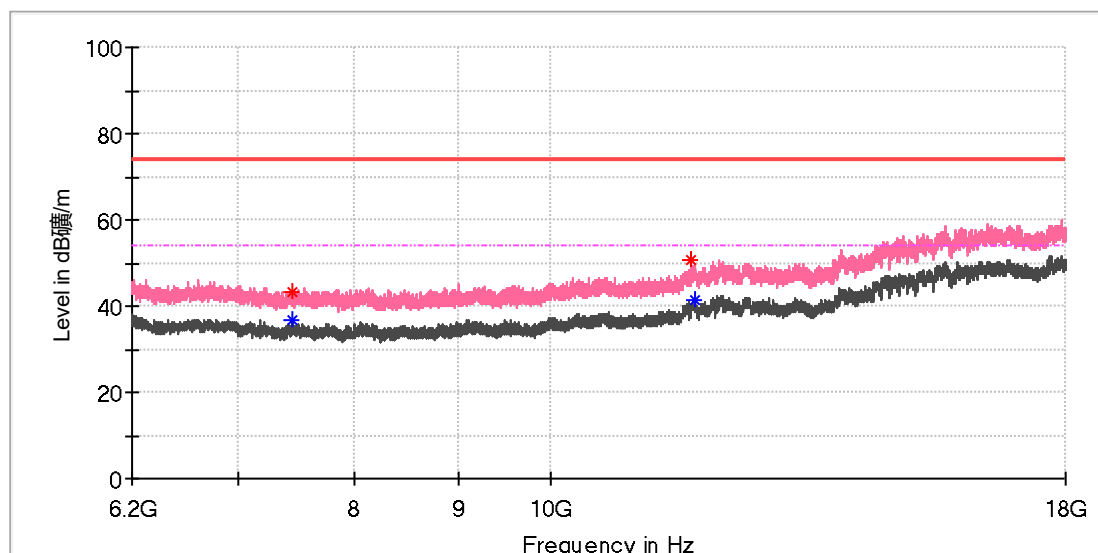
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7452.766667	44.19	---	74.00	29.81	150.0	H	167.0	8.5
7484.233333	---	36.18	54.00	17.82	150.0	H	0.0	8.7
12121.633333	50.88	---	74.00	23.12	150.0	H	132.0	16.0
12143.266667	---	42.63	54.00	11.37	150.0	H	27.0	16.6

Final Result

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

EUT Information

EUT Name:	ThinkPad Dual-Mode Wireless ANC Foldable Headset 8550
Model:	LB520NC
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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)
7438.016667	43.27	---	74.00	30.73	150.0	V	349.0	8.4
7439.983333	---	36.86	54.00	17.14	150.0	V	254.0	8.4
11745.016667	50.47	---	74.00	23.53	150.0	V	0.0	15.2
11783.366667	---	41.55	54.00	12.45	150.0	V	140.0	15.1

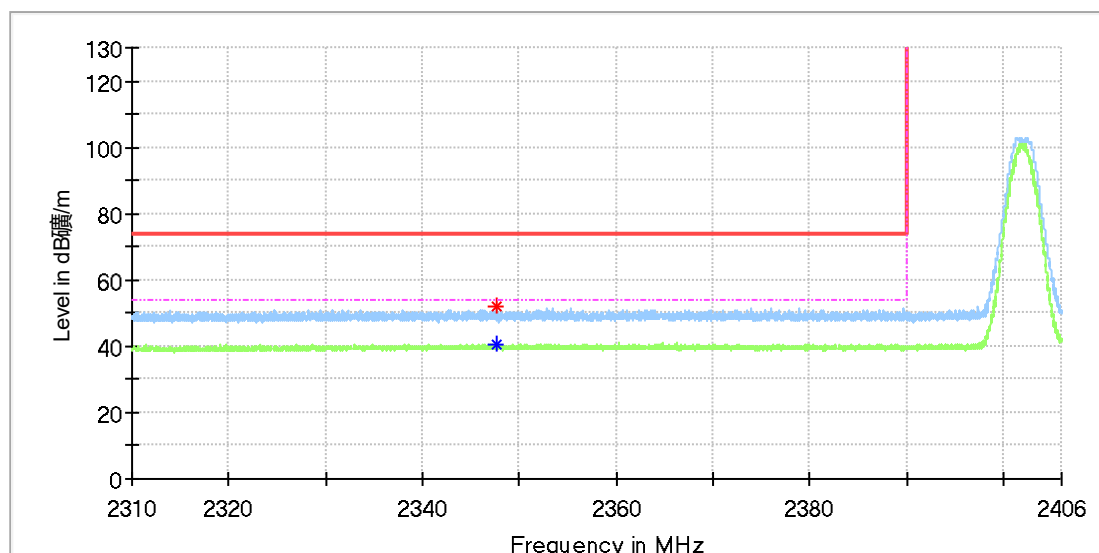
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix C.7: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	ThinkPad Dual-Mode Wireless ANC Foldable Headset 8550
Model:	LB520NC
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

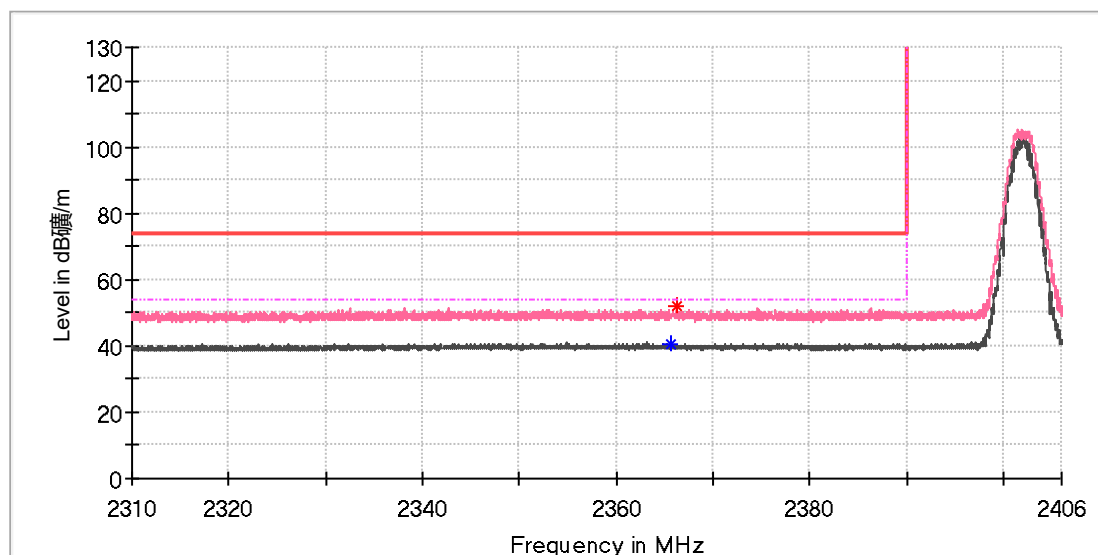
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2347.609412	---	40.69	54.00	13.31	150.0	H	68.0	8.5
2347.680000	51.80	---	74.00	22.20	150.0	H	36.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	

EUT Information

EUT Name:	ThinkPad Dual-Mode Wireless ANC Foldable Headset 8550
Model:	LB520NC
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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)
2365.680000	---	40.68	54.00	13.32	150.0	V	346.0	8.5
2366.174118	51.73	---	74.00	22.27	150.0	V	341.0	8.5

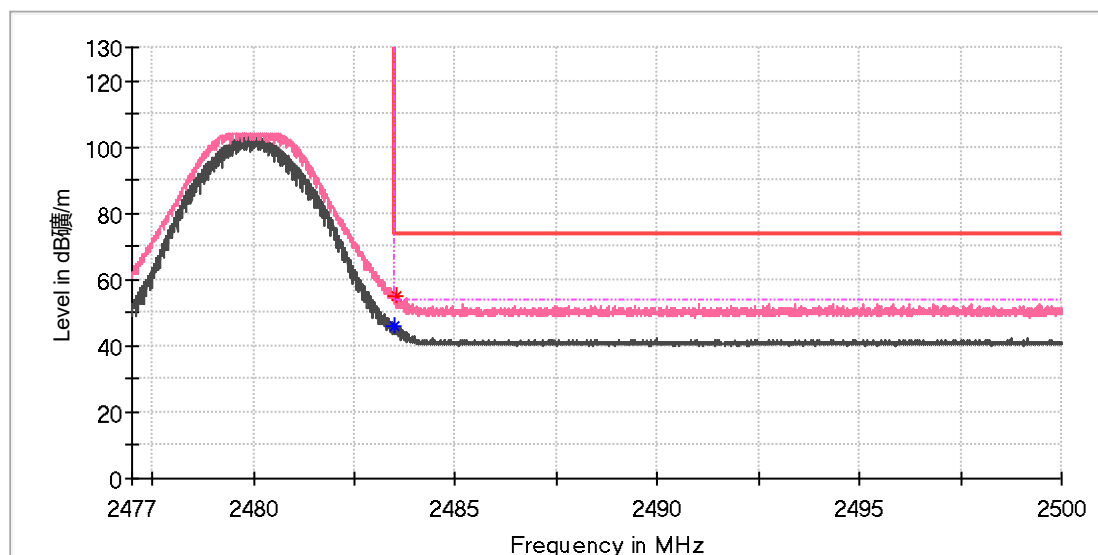
Final Result

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

EUT Information

EUT Information

EUT Name:	ThinkPad Dual-Mode Wireless ANC Foldable Headset 8550
Model:	LB520NC
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168577723/A004140302-007
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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)
2483.507647	---	46.07	54.00	7.93	150.0	V	198.0	9.0
2483.524559	55.25	---	74.00	18.75	150.0	V	213.0	9.0

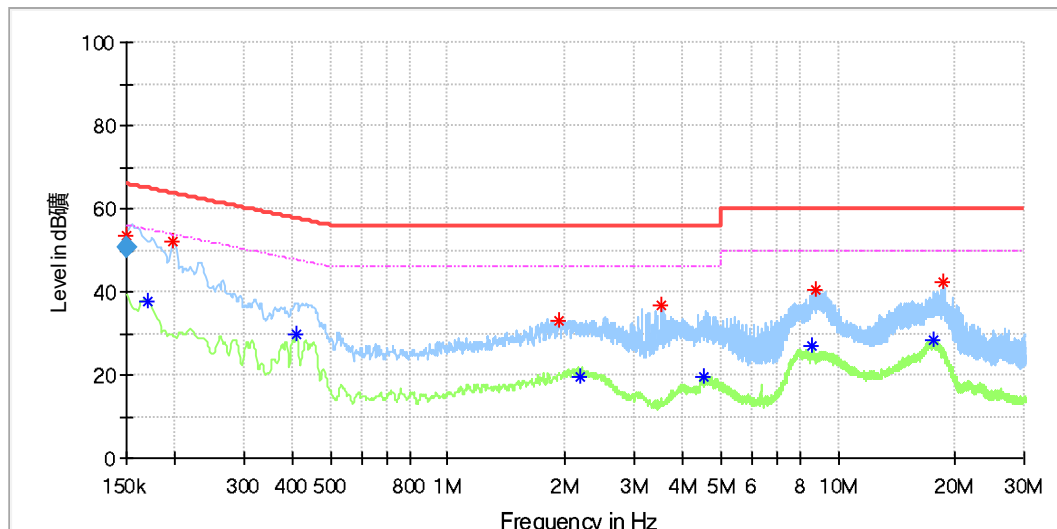
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix C.8: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	ThinkPad Dual-Mode Wireless ANC Foldable Headset 8550
Order Number:	168577723_ItemXX
Model:	LB520NC
Test Mode:	2.4GHz audio play+MIC+ Charging
Test Voltage:	AC 120V 60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Brain Zhang / Murphy Chen
Tem./Hum./Pressure:	24.3°C/51.5%/101kPa
Remark:	SR2



Critical Freqs

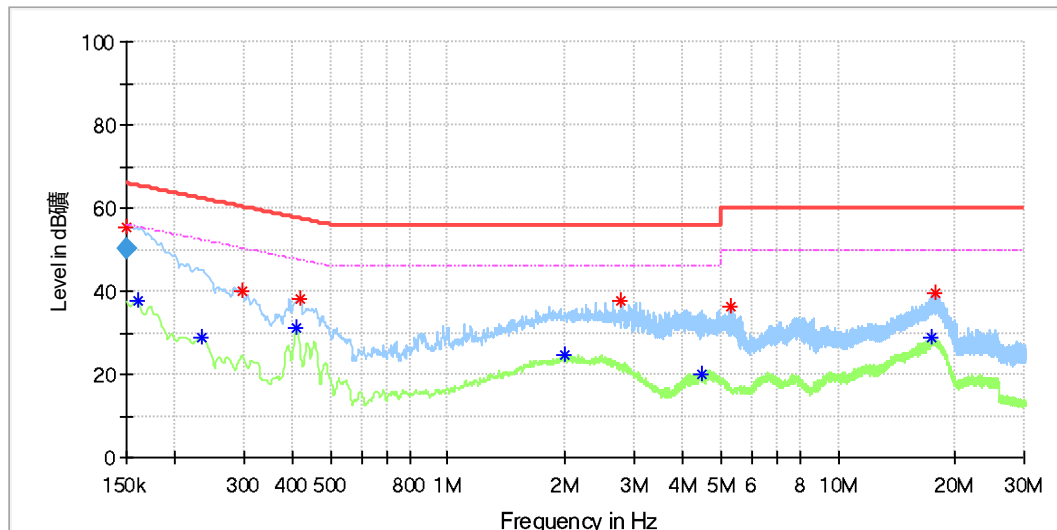
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.15	53.71	---	65.73	12.02	L1	10.24
0.17	---	37.47	54.97	17.49	L1	10.24
0.20	52.01	---	63.69	11.68	L1	10.24
0.41	---	29.88	47.68	17.80	L1	10.25
1.92	33.22	---	56.00	22.78	L1	10.31
2.18	---	19.75	46.00	26.25	L1	10.31
3.52	36.80	---	56.00	19.20	L1	10.35
4.55	---	19.40	46.00	26.60	L1	10.40
8.58	---	26.88	50.00	23.12	L1	10.59
8.76	40.49	---	60.00	19.51	L1	10.60
17.49	---	28.38	50.00	21.62	L1	10.95
18.56	42.27	---	60.00	17.73	L1	11.03

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.15	50.74	---	66.00	15.26	1000.00	9.00	L1	10.23

EUT Information

EUT Name: ThinkPad Dual-Mode Wireless ANC Foldable Headset 8550
Order Number: 168577723_ItemXX
Model: LB520NC
Test Mode: 2.4GHz audio play+MIC+ Charging
Test Voltage: AC 120V 60Hz
Test Standard: FCC Part 15
Test By:/Review By: Brain Zhang / Murphy Chen
Tem./Hum./Pressure: 24.3°C/51.5%/101kPa
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.15	55.22	---	65.30	10.08	N	10.25
0.16	---	37.84	55.47	17.63	N	10.25
0.23	---	28.89	52.35	23.45	N	10.25
0.30	39.98	---	60.36	20.37	N	10.26
0.41	---	31.05	47.64	16.59	N	10.26
0.42	38.10	---	57.51	19.41	N	10.26
2.00	---	24.51	46.00	21.49	N	10.31
2.79	37.55	---	56.00	18.45	N	10.33
4.49	---	20.17	46.00	25.83	N	10.41
5.31	36.50	---	60.00	23.50	N	10.45
17.34	---	29.05	50.00	20.95	N	10.93
17.84	39.36	---	60.00	20.64	N	10.96

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.15	50.18	---	66.00	15.82	1000.00	9.00	N	10.25