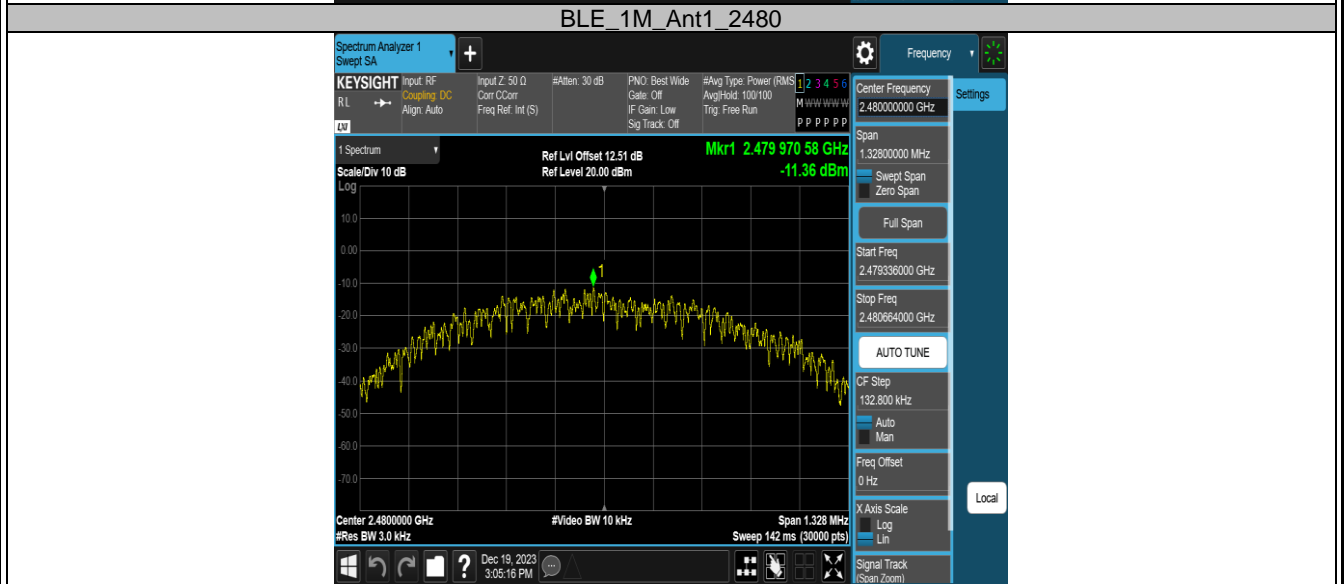
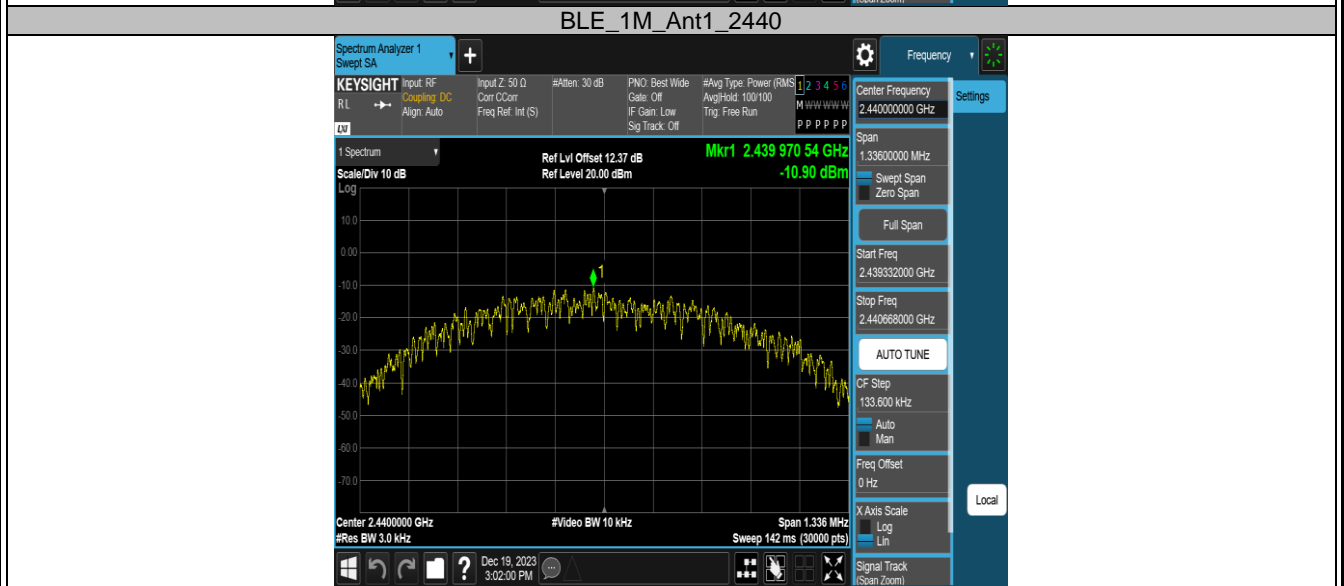
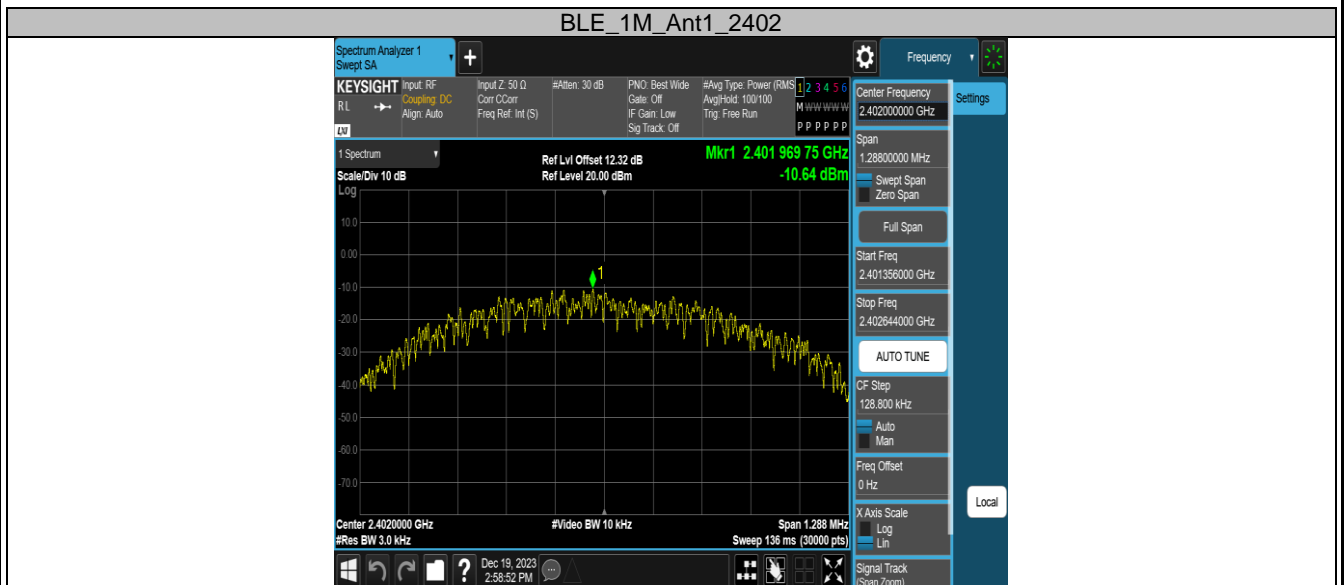


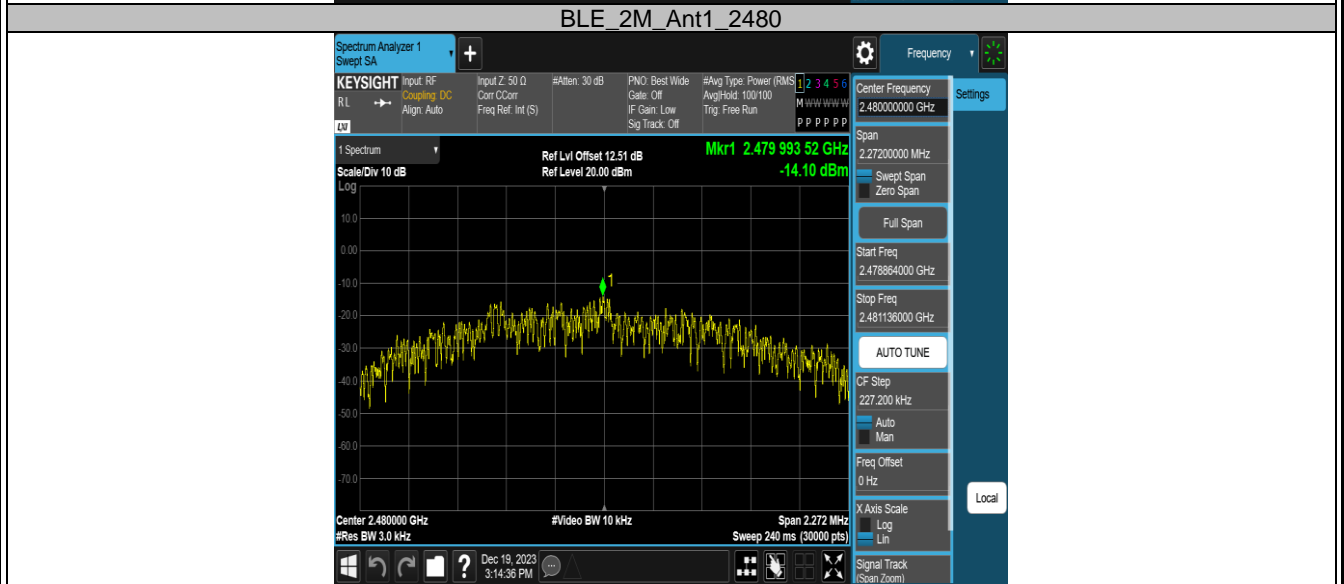
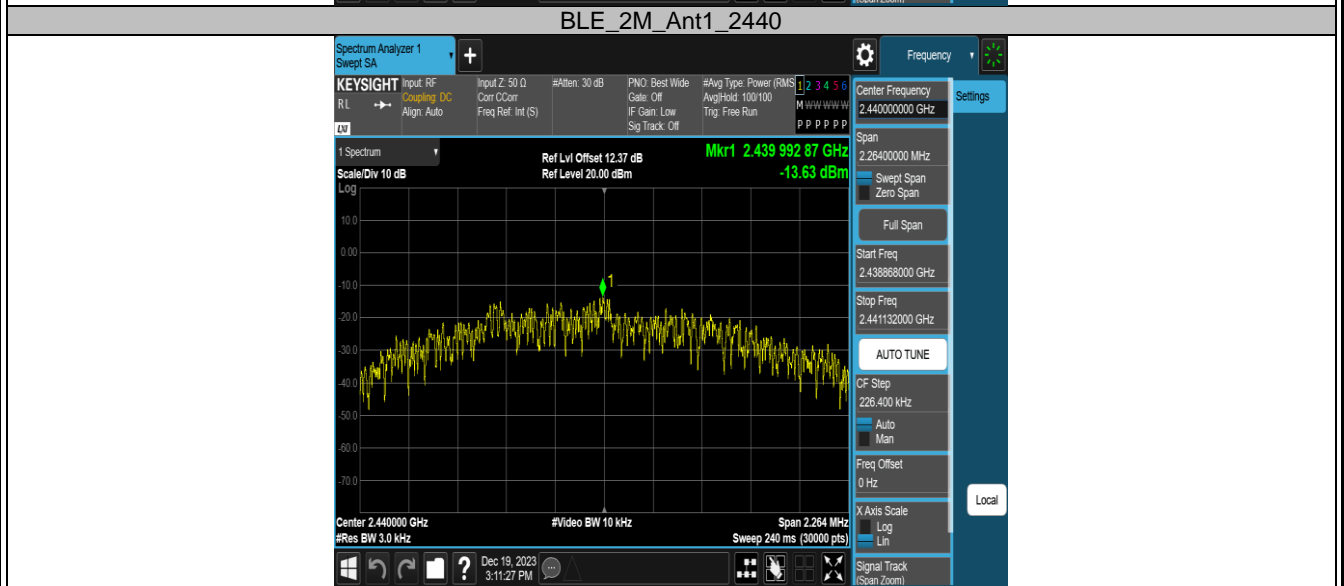
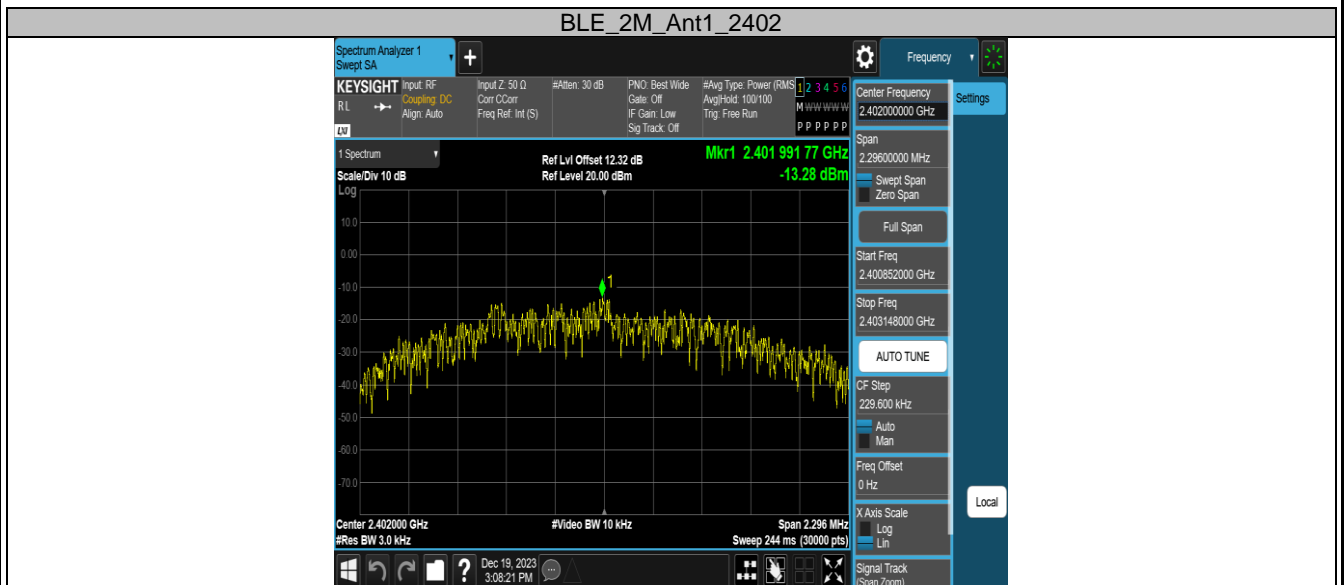
Appendix B: Test Results of Bluetooth Low Energy

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Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.64	≤8.00	PASS
		2440	-10.90	≤8.00	PASS
		2480	-11.36	≤8.00	PASS
BLE_2M	Ant1	2402	-13.28	≤8.00	PASS
		2440	-13.63	≤8.00	PASS
		2480	-14.10	≤8.00	PASS





Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.680	2402.324	0.5	PASS
		2440	0.668	2439.652	2440.320	0.5	PASS
		2480	0.664	2479.660	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.148	2401.420	2402.568	0.5	PASS
		2440	1.132	2439.420	2440.552	0.5	PASS
		2480	1.136	2479.420	2480.556	0.5	PASS





Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0160	2401.4933	2402.5093	---	PASS
		2440	1.0123	2439.4957	2440.5080	---	PASS
		2480	1.0119	2479.4946	2480.5065	---	PASS
BLE_2M	Ant1	2402	2.0038	2401.0100	2403.0138	---	PASS
		2440	2.0067	2439.0166	2441.0233	---	PASS
		2480	2.0103	2479.0127	2481.0230	---	PASS

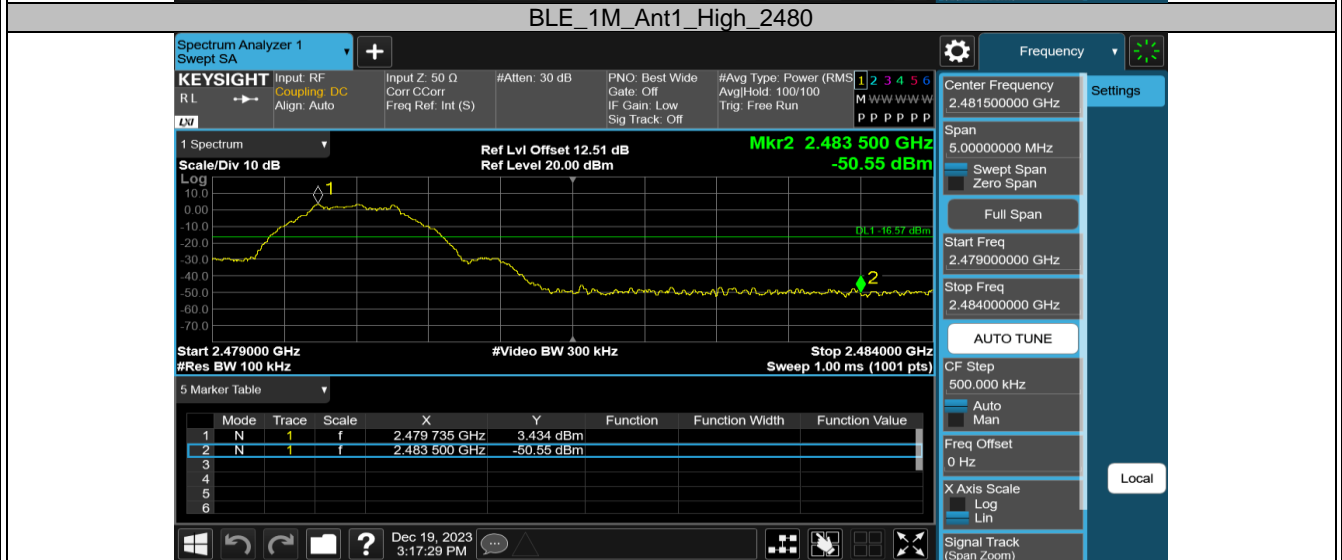
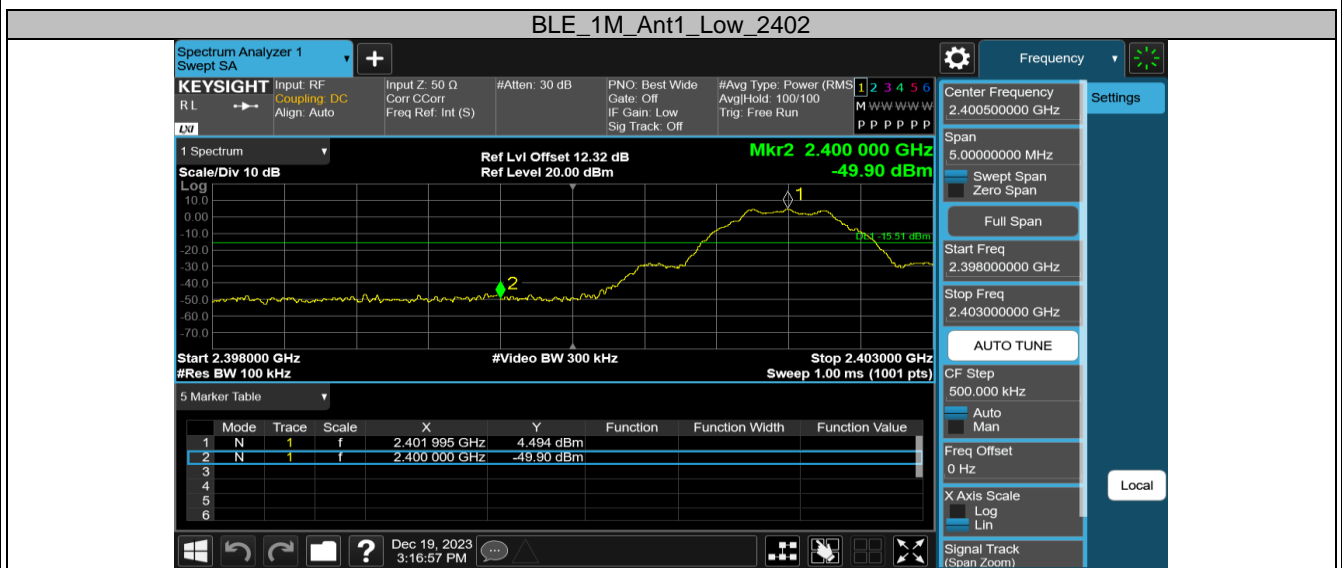




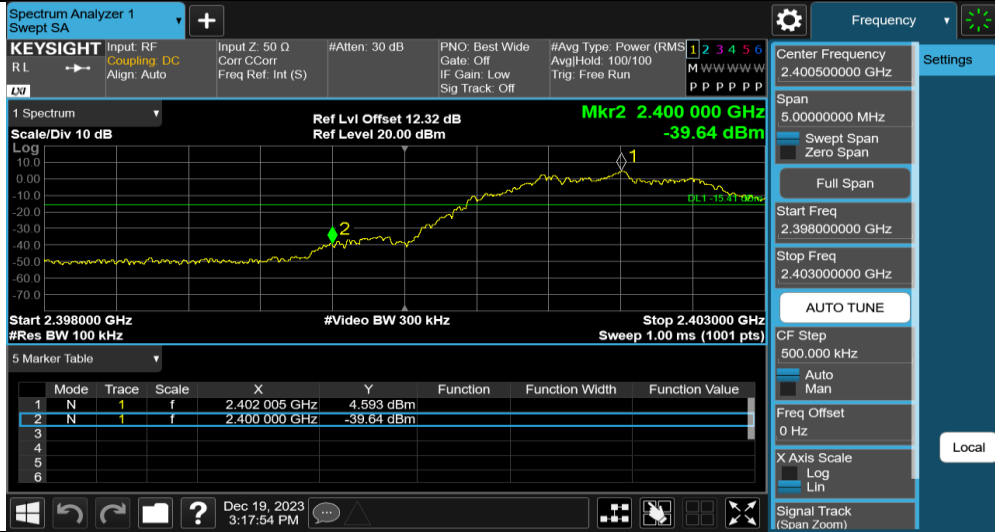
Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.494	-49.9	≤-15.51	PASS
		High	2480	3.434	-50.55	≤-16.57	PASS
BLE_2M	Ant1	Low	2402	4.593	-39.64	≤-15.41	PASS
		High	2480	3.629	-49.32	≤-16.37	PASS



BLE_2M_Ant1_Low_2402

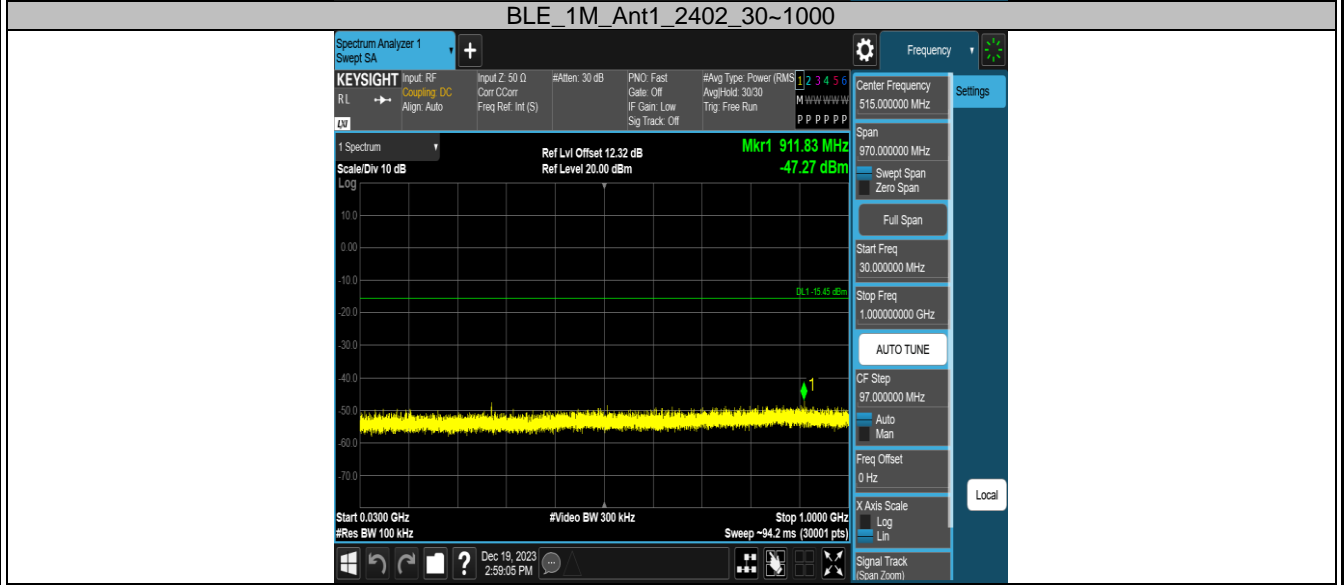
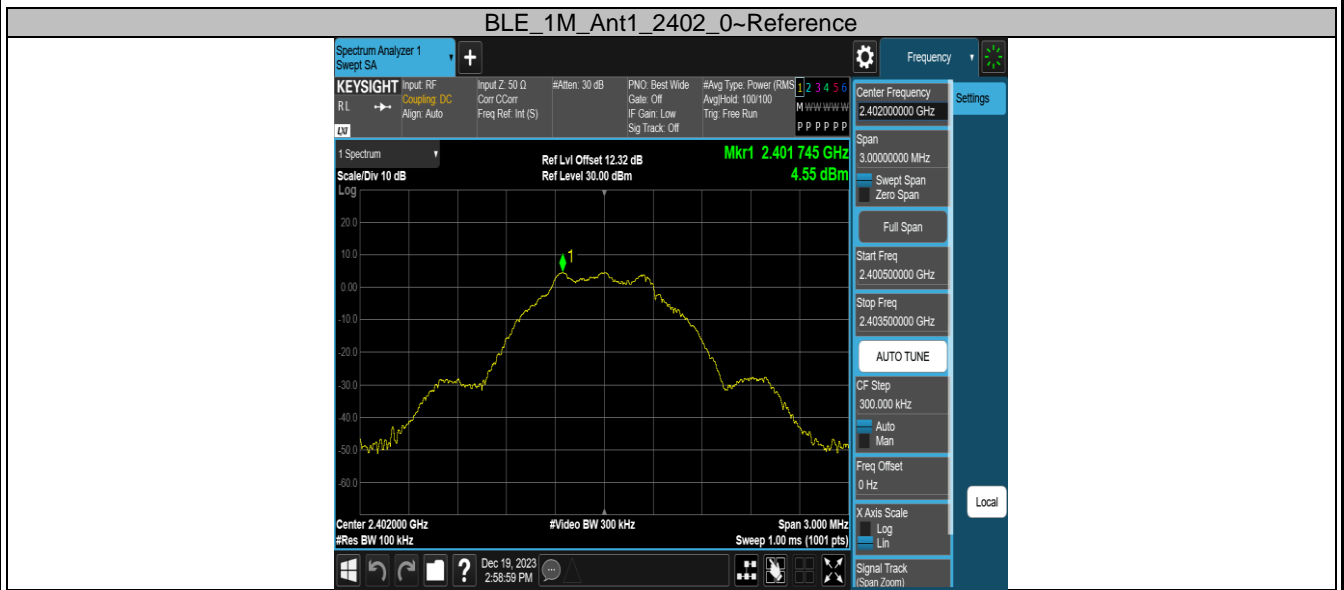


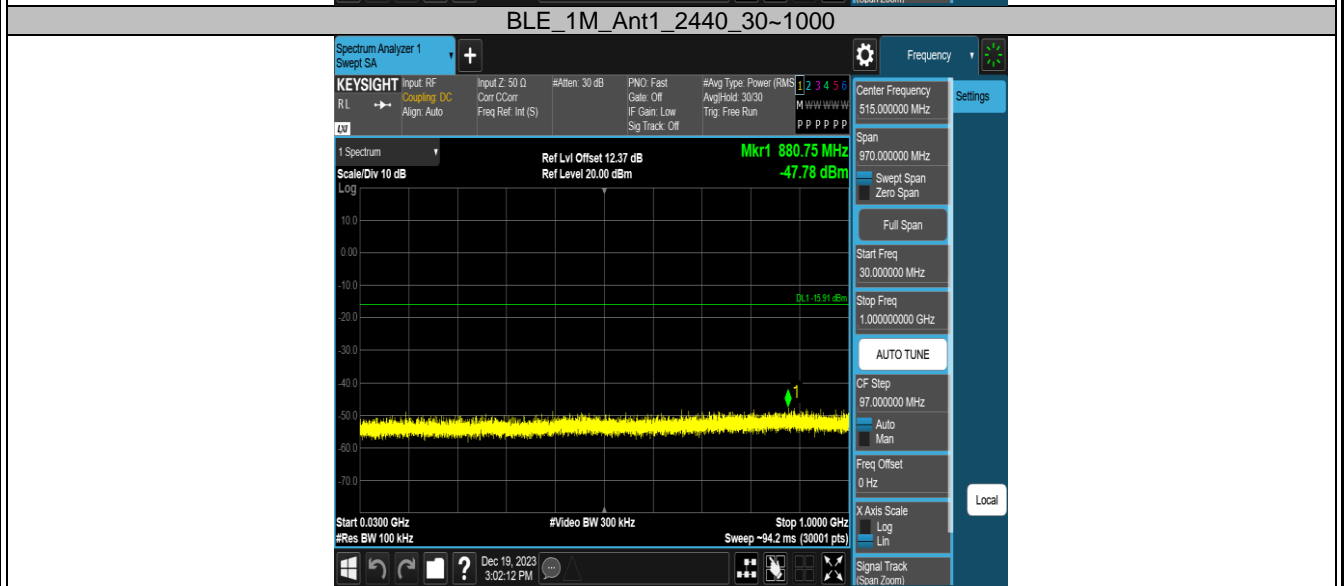
BLE_2M_Ant1_High_2480

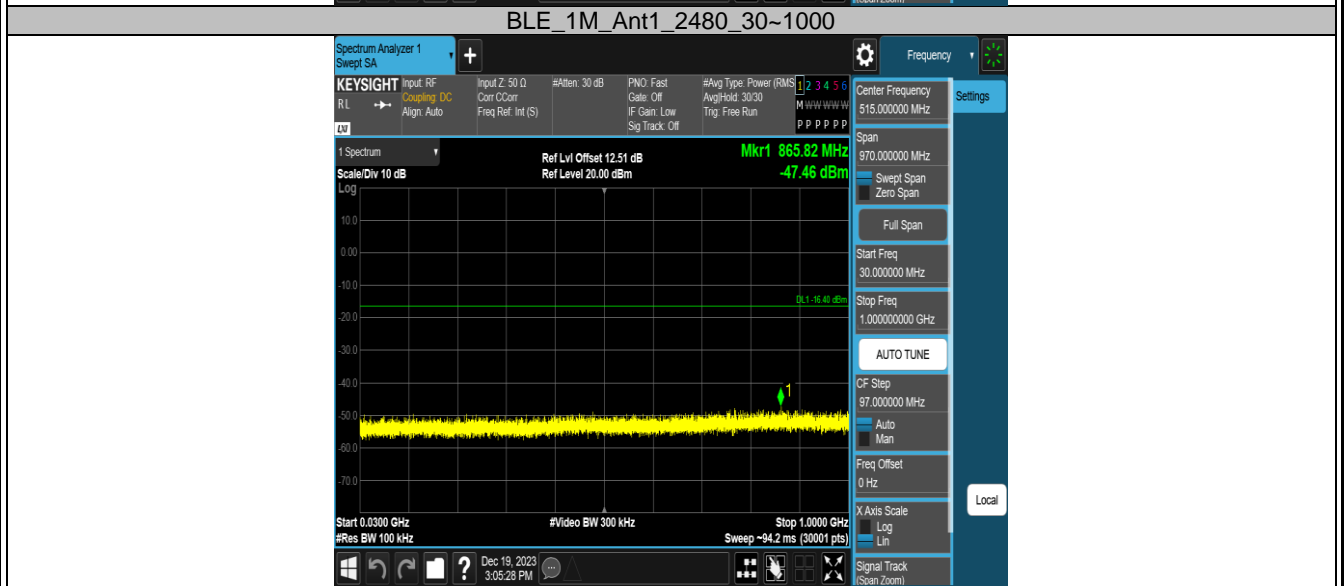


Conducted Spurious Emission

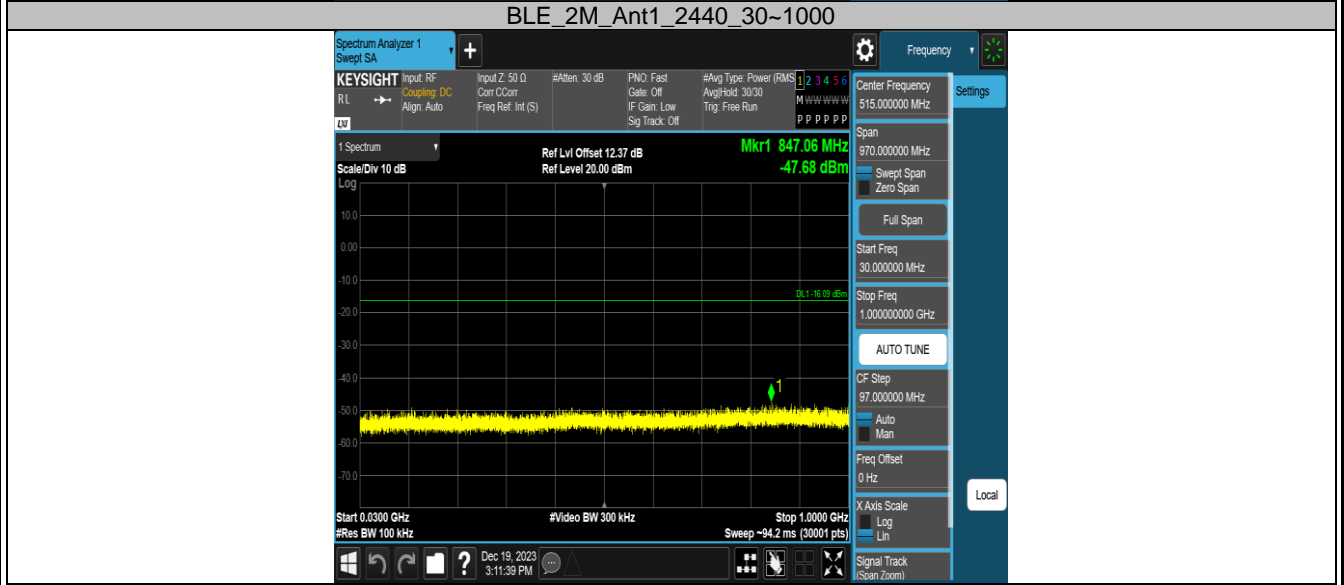
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	4.55	4.55	---	PASS
			30~1000	4.55	-47.27	≤-15.45	PASS
			1000~26500	4.55	-38.45	≤-15.45	PASS
		2440	Reference	4.09	4.09	---	PASS
			30~1000	4.09	-47.78	≤-15.91	PASS
			1000~26500	4.09	-39.24	≤-15.91	PASS
		2480	Reference	3.60	3.60	---	PASS
			30~1000	3.60	-47.46	≤-16.4	PASS
			1000~26500	3.60	-37.95	≤-16.4	PASS
BLE_2M	Ant1	2402	Reference	4.59	4.59	---	PASS
			30~1000	4.59	-46.73	≤-15.41	PASS
			1000~26500	4.59	-38.32	≤-15.41	PASS
		2440	Reference	3.91	3.91	---	PASS
			30~1000	3.91	-47.68	≤-16.09	PASS
			1000~26500	3.91	-38.38	≤-16.09	PASS
		2480	Reference	3.50	3.50	---	PASS
			30~1000	3.50	-46.96	≤-16.5	PASS
			1000~26500	3.50	-38.25	≤-16.5	PASS

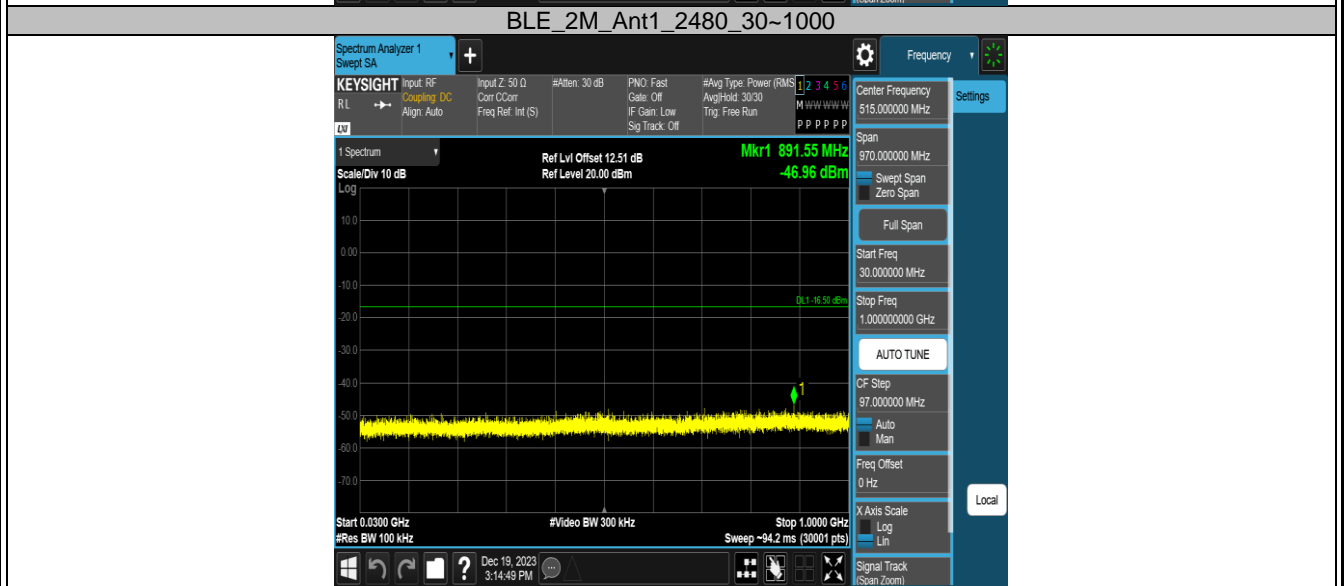












Appendix B.5: Test Results of Radiated Spurious Emissions

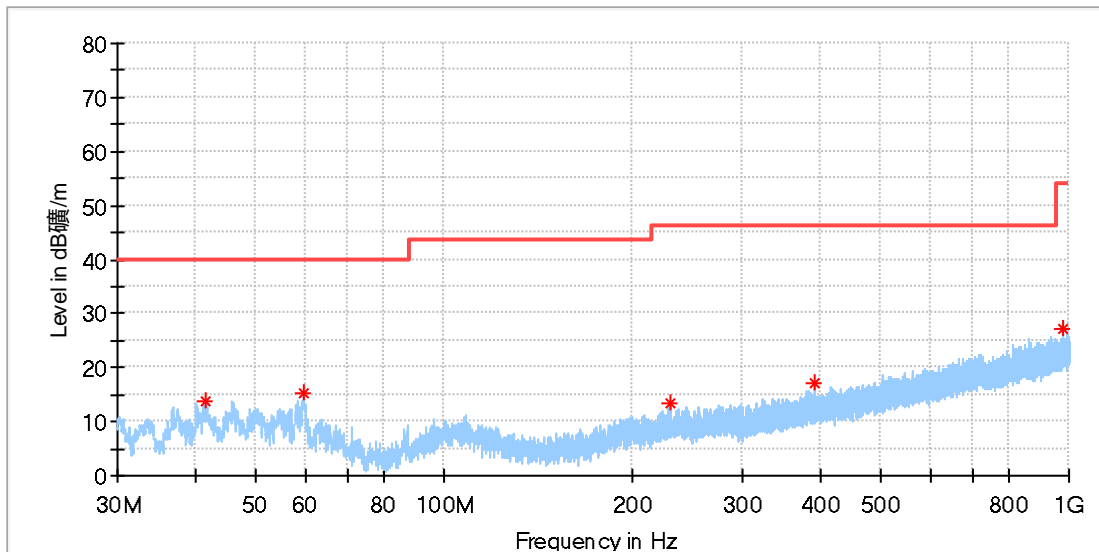
Note:

- 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 (Left earbud)

EUT Information

EUT Name:	Lenovo YOGA True Wireless Stereo Earbuds
Model:	LT310
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168455159/A003622699-014
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

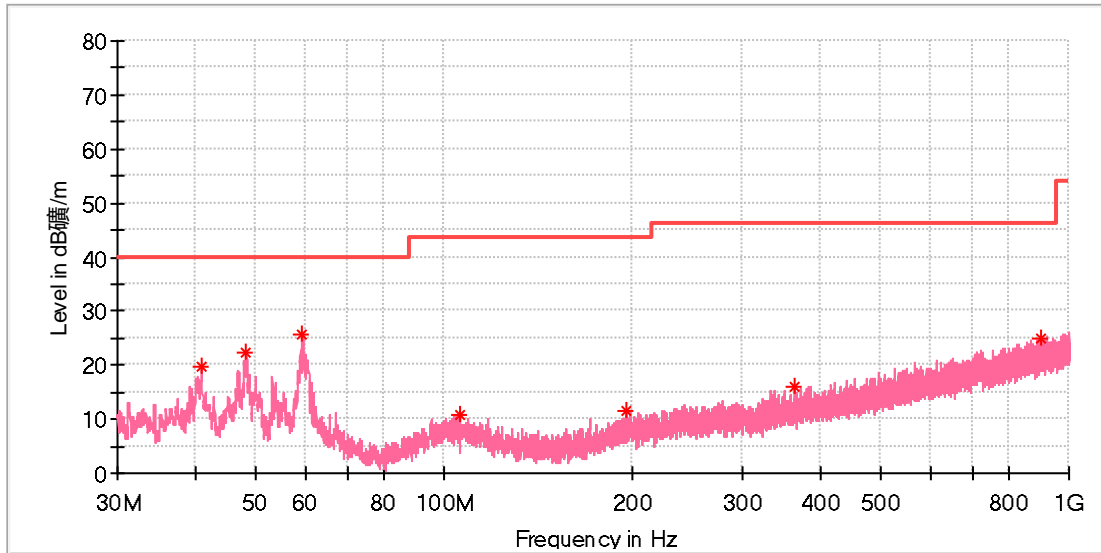
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.640000	13.90	40.00	26.10	100.0	H	88.0	-20.0
59.510385	15.14	40.00	24.86	100.0	H	244.0	-19.2
230.454231	13.51	46.00	32.49	100.0	H	0.0	-18.4
391.101154	17.20	46.00	28.80	100.0	H	120.0	-14.3
975.041154	27.00	54.00	27.00	100.0	H	0.0	-4.5

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 YOGA True Wireless Stereo Earbuds
 Model: LT310
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168455159/A003622699-014
 Test Voltage: Battery
 Remark: Temp 22 Humi:52%
 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)
40.856539	19.90	40.00	20.10	100.0	V	173.0	-20.2
48.280769	22.29	40.00	17.71	100.0	V	115.0	-18.7
59.361154	25.63	40.00	14.37	100.0	V	238.0	-19.2
106.256923	10.69	43.50	32.81	100.0	V	310.0	-19.2
195.571539	11.49	43.50	32.01	100.0	V	130.0	-19.5
362.486154	16.00	46.00	30.00	100.0	V	115.0	-14.9
901.395769	24.96	46.00	21.04	100.0	V	302.0	-5.4

Final_Result

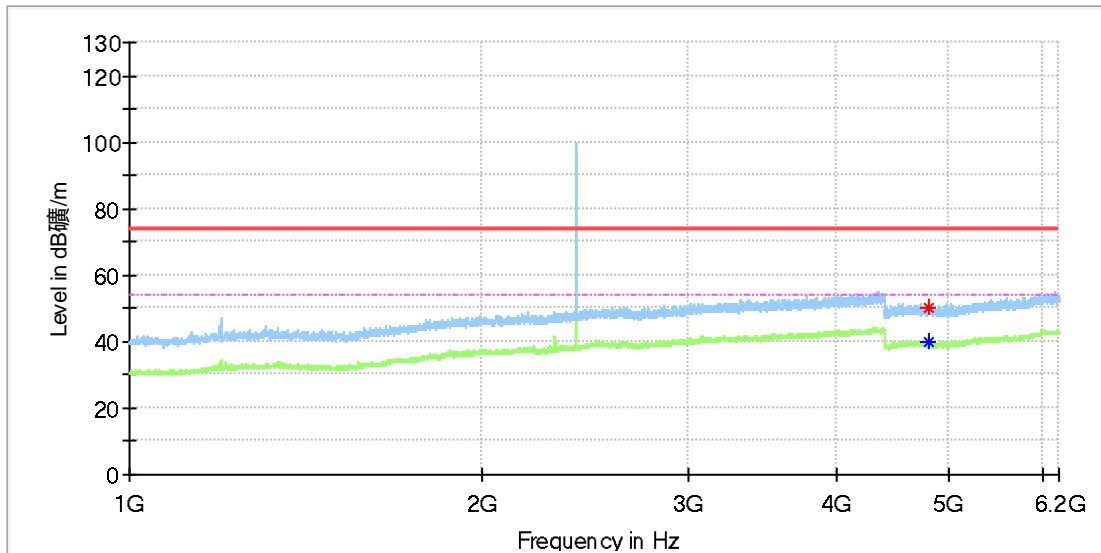
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz (Left earbud)

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Lenovo YOGA True Wireless Stereo Earbuds
Model:	LT310
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168455159/A003622699-014
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

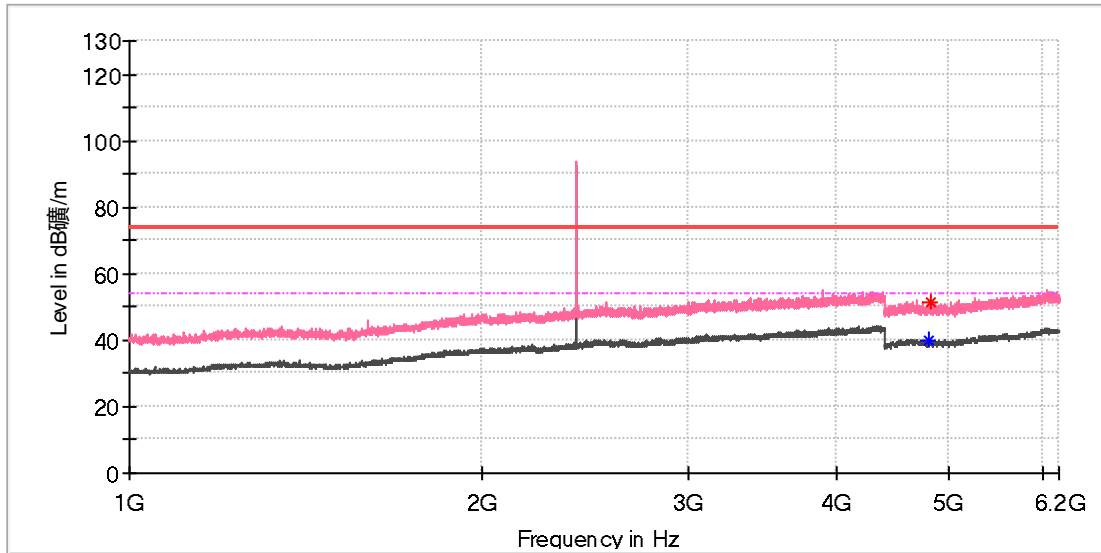
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4798.500000	50.20	---	74.00	23.80	150.0	H	6.0	11.8
4804.000000	---	40.10	54.00	13.90	150.0	H	35.0	11.8

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 YOGA True Wireless Stereo Earbuds
 Model: LT310
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168455159/A003622699-014
 Test Voltage: Battery
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

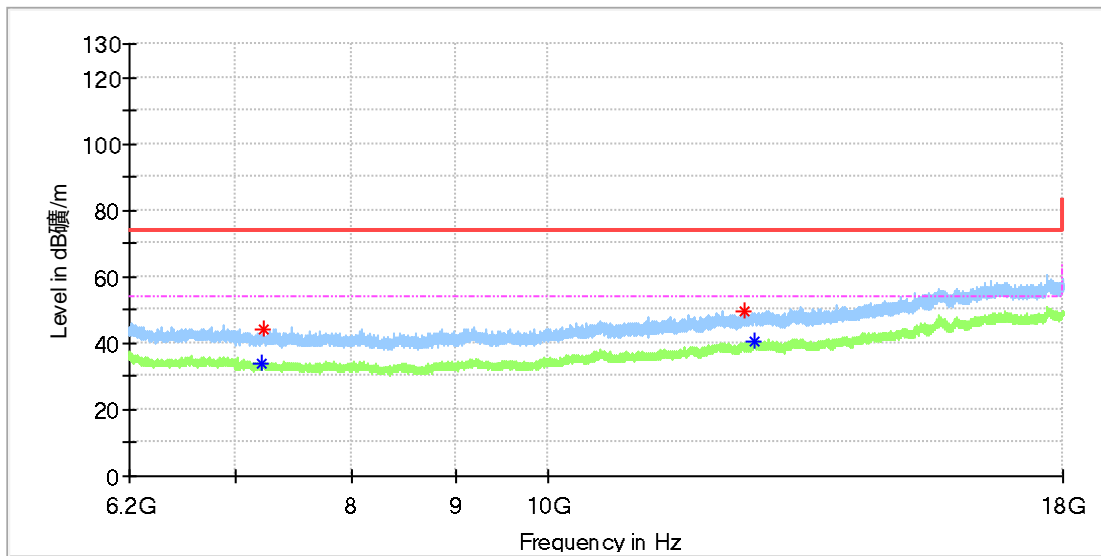
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4808.500000	---	39.64	54.00	14.36	150.0	V	26.0	11.8
4819.500000	51.19	---	74.00	22.81	150.0	V	43.0	11.8

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 YOGA True Wireless Stereo Earbuds
 Model: LT310
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168455159/A003622699-014
 Test Voltage: Battery
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

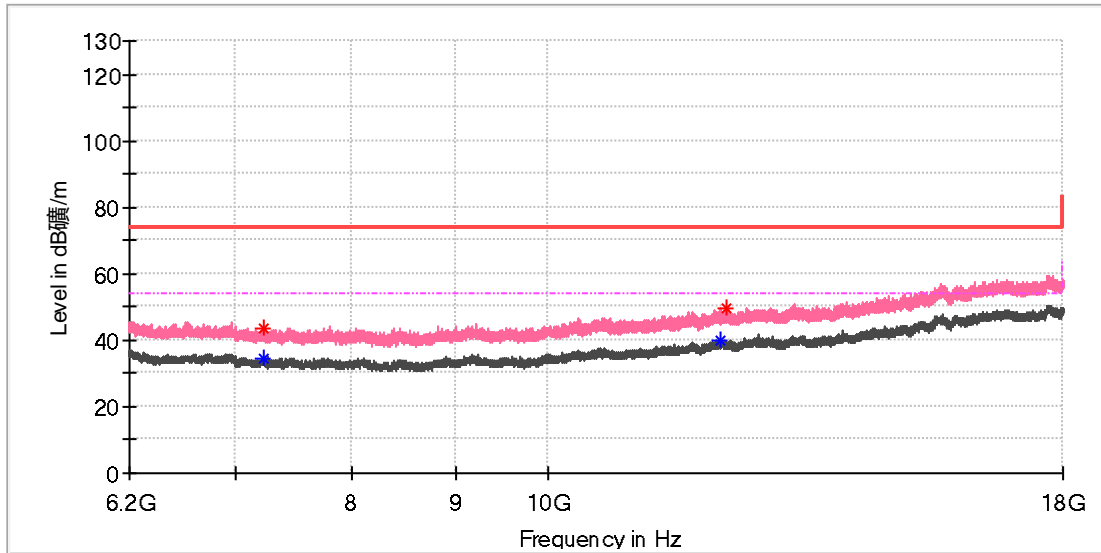
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7215.291667	---	33.93	54.00	20.07	150.0	H	3.0	8.7
7228.075000	44.02	---	74.00	29.98	150.0	H	39.0	8.7
12513.491667	49.80	---	74.00	24.20	150.0	H	170.0	14.6
12647.225000	---	40.75	54.00	13.25	150.0	H	39.0	15.0

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 YOGA True Wireless Stereo Earbuds
 Model: LT310
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168455159/A003622699-014
 Test Voltage: Battery
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

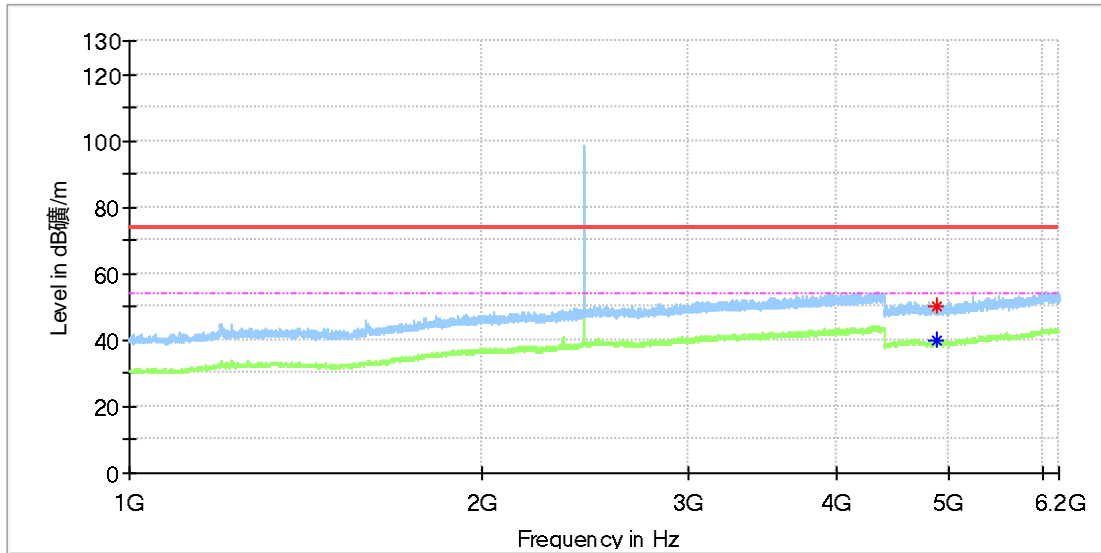
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7232.008333	43.69	---	74.00	30.31	150.0	V	257.0	8.6
7234.466667	---	34.76	54.00	19.24	150.0	V	19.0	8.6
12181.616667	---	39.90	54.00	14.10	150.0	V	330.0	14.6
12262.741667	49.54	---	74.00	24.46	150.0	V	353.0	14.8

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 YOGA True Wireless Stereo Earbuds
Model:	LT310
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168455159/A003622699-014
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

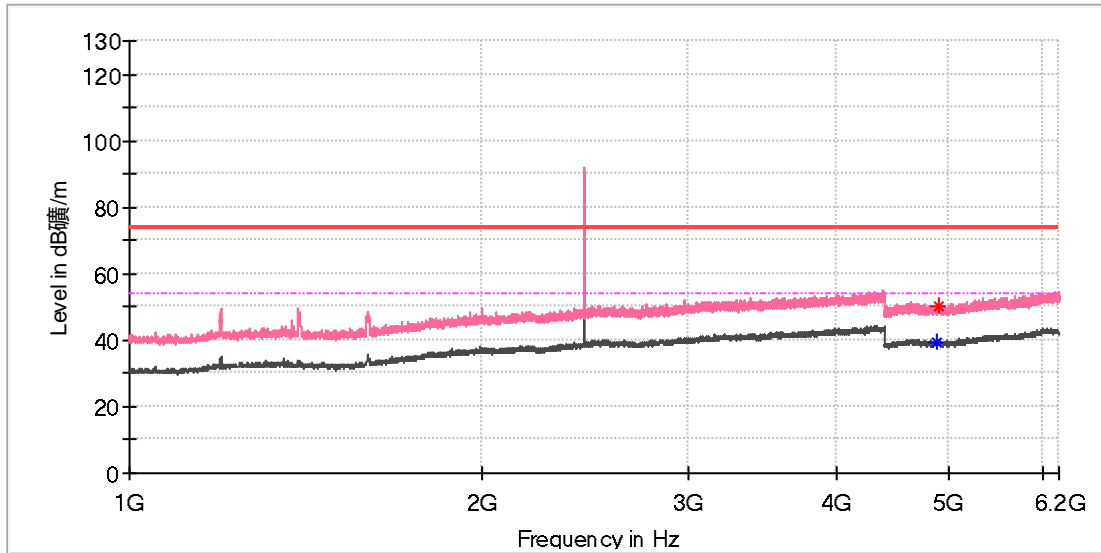
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.500000	50.33	---	74.00	23.67	150.0	H	31.0	11.8
4880.000000	---	39.66	54.00	14.34	150.0	H	44.0	11.8

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 YOGA True Wireless Stereo Earbuds
 Model: LT310
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168455159/A003622699-014
 Test Voltage: Battery
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

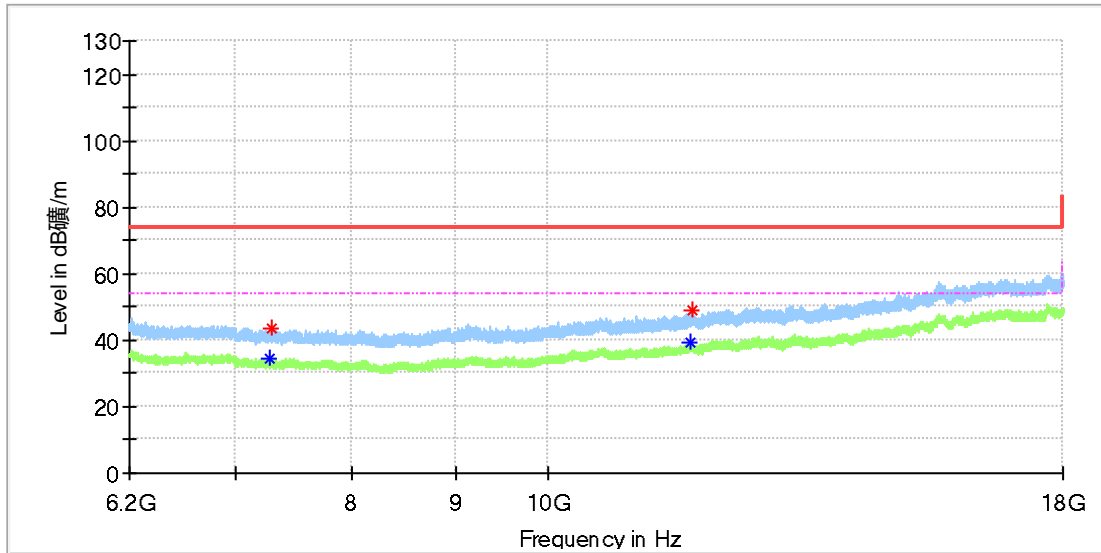
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4870.000000	---	39.46	54.00	14.54	150.0	V	18.0	11.8
4905.000000	50.46	---	74.00	23.54	150.0	V	49.0	11.8

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 YOGA True Wireless Stereo Earbuds
 Model: LT310
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168455159/A003622699-014
 Test Voltage: Battery
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

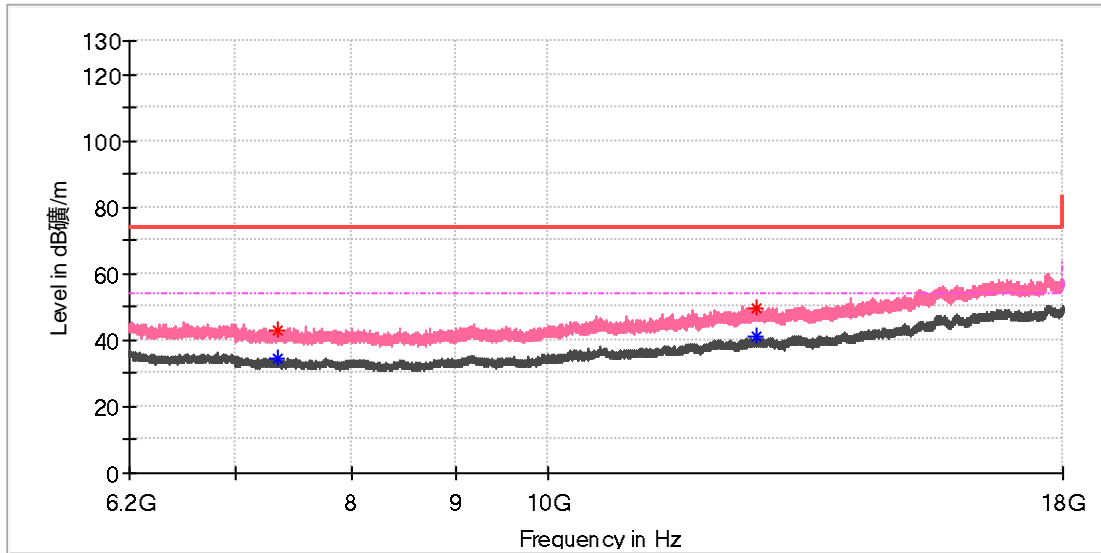
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7283.633333	---	34.48	54.00	19.52	150.0	H	186.0	8.4
7298.383333	43.37	---	74.00	30.63	150.0	H	74.0	8.3
11773.041667	---	39.31	54.00	14.69	150.0	H	342.0	13.4
11777.466667	48.96	---	74.00	25.04	150.0	H	112.0	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 YOGA True Wireless Stereo Earbuds
 Model: LT310
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168455159/A003622699-014
 Test Voltage: Battery
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

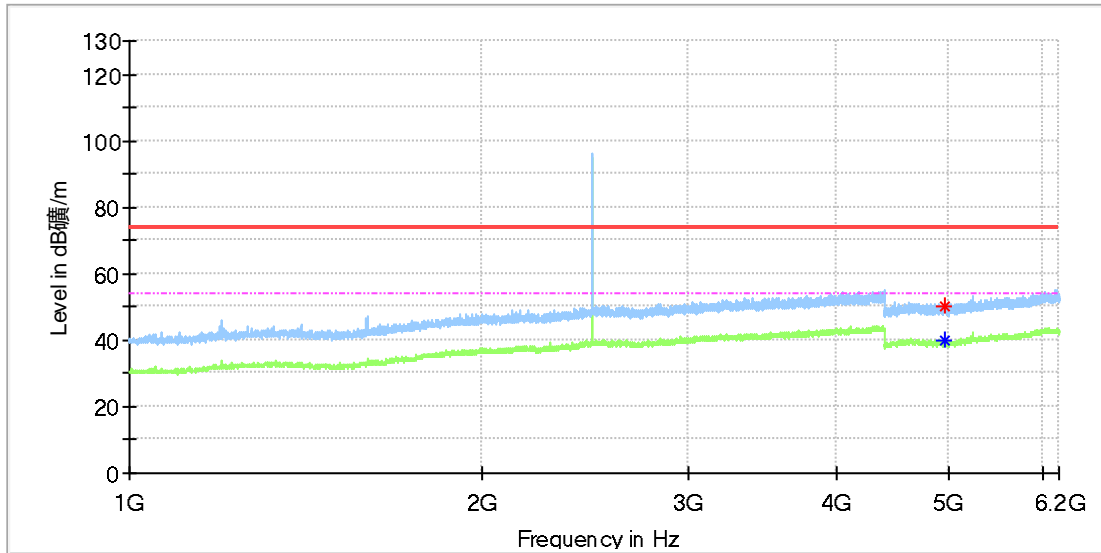
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7335.258333	42.85	---	74.00	31.15	150.0	V	31.0	8.1
7340.175000	---	34.61	54.00	19.39	150.0	V	19.0	8.1
12680.658333	---	40.87	54.00	13.13	150.0	V	0.0	15.1
12685.575000	49.47	---	74.00	24.53	150.0	V	0.0	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 YOGA True Wireless Stereo Earbuds
 Model: LT310
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168455159/A003622699-014
 Test Voltage: Battery
 Remark: Temp 22 Humi:52%
 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)
4951.500000	50.29	---	74.00	23.71	150.0	H	108.0	11.8
4960.500000	---	40.10	54.00	13.90	150.0	H	241.0	11.8

Final_Result

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