

Appendix A: Test Results of Bluetooth LE

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Appendix A.1: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.612	2402.272	0.5	PASS
		2440	0.652	2439.616	2440.268	0.5	PASS
		2480	0.644	2479.612	2480.256	0.5	PASS

Test Graphs





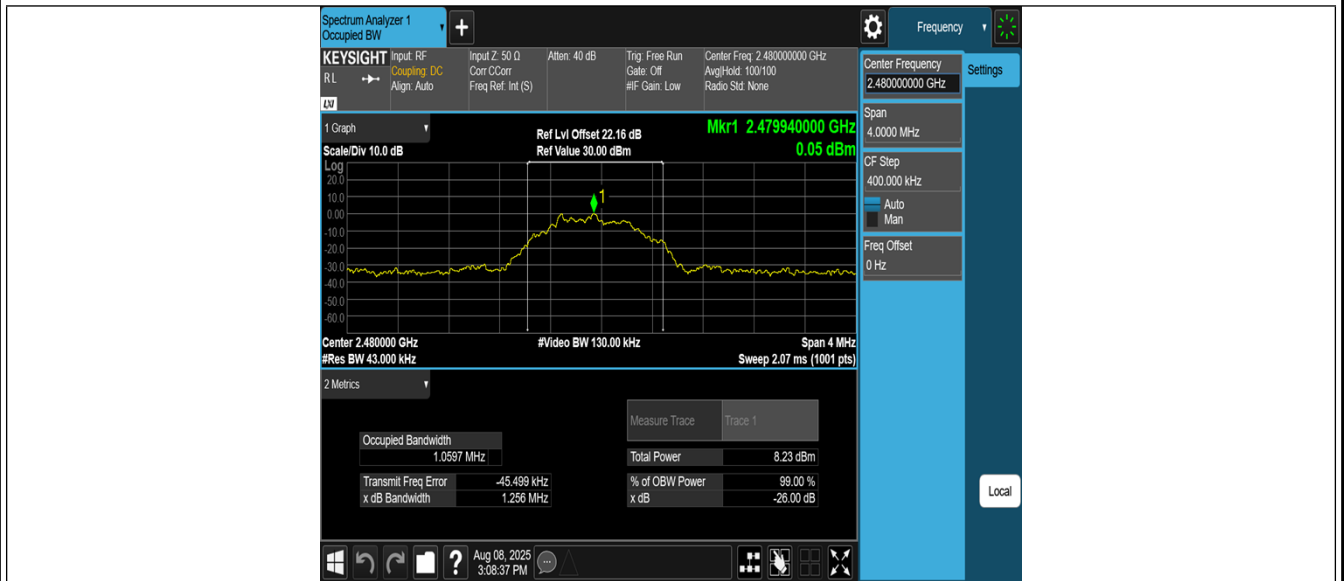
Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0566	2401.4250	2402.4816	---	PASS
		2440	1.0467	2439.4260	2440.4727	---	PASS
		2480	1.0597	2479.4247	2480.4844	---	PASS

Test Graphs



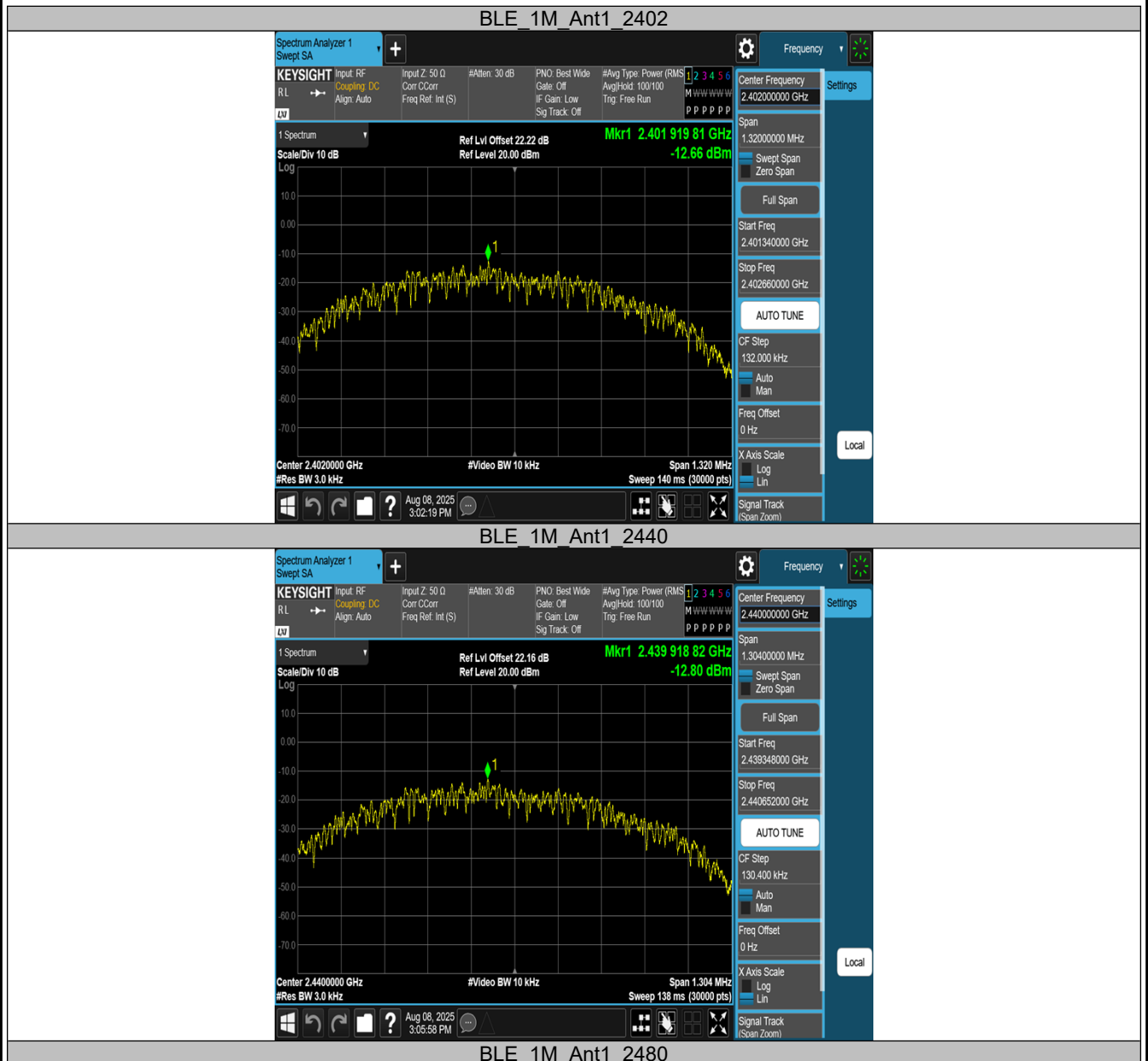


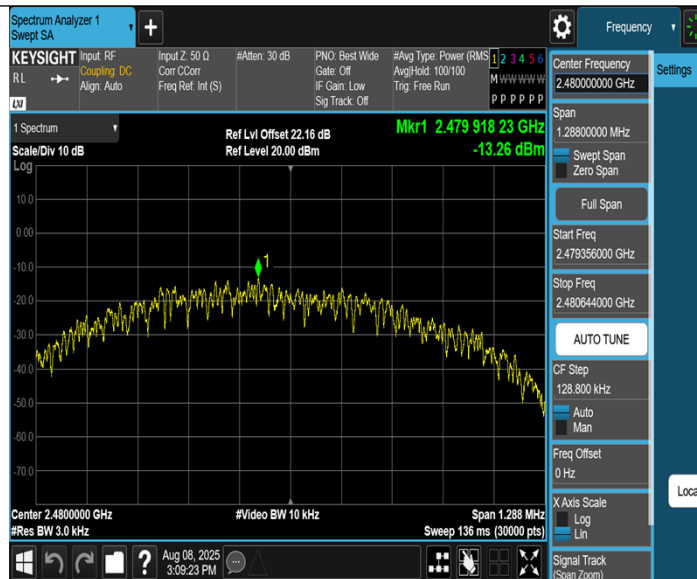
Appendix A.3: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.66	≤8.00	PASS
		2440	-12.80	≤8.00	PASS
		2480	-13.26	≤8.00	PASS

Test Graphs





Appendix A.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	1.28	-39.76	≤-18.72	PASS
		High	2480	1.00	-35.74	≤-19.00	PASS

Test Graphs

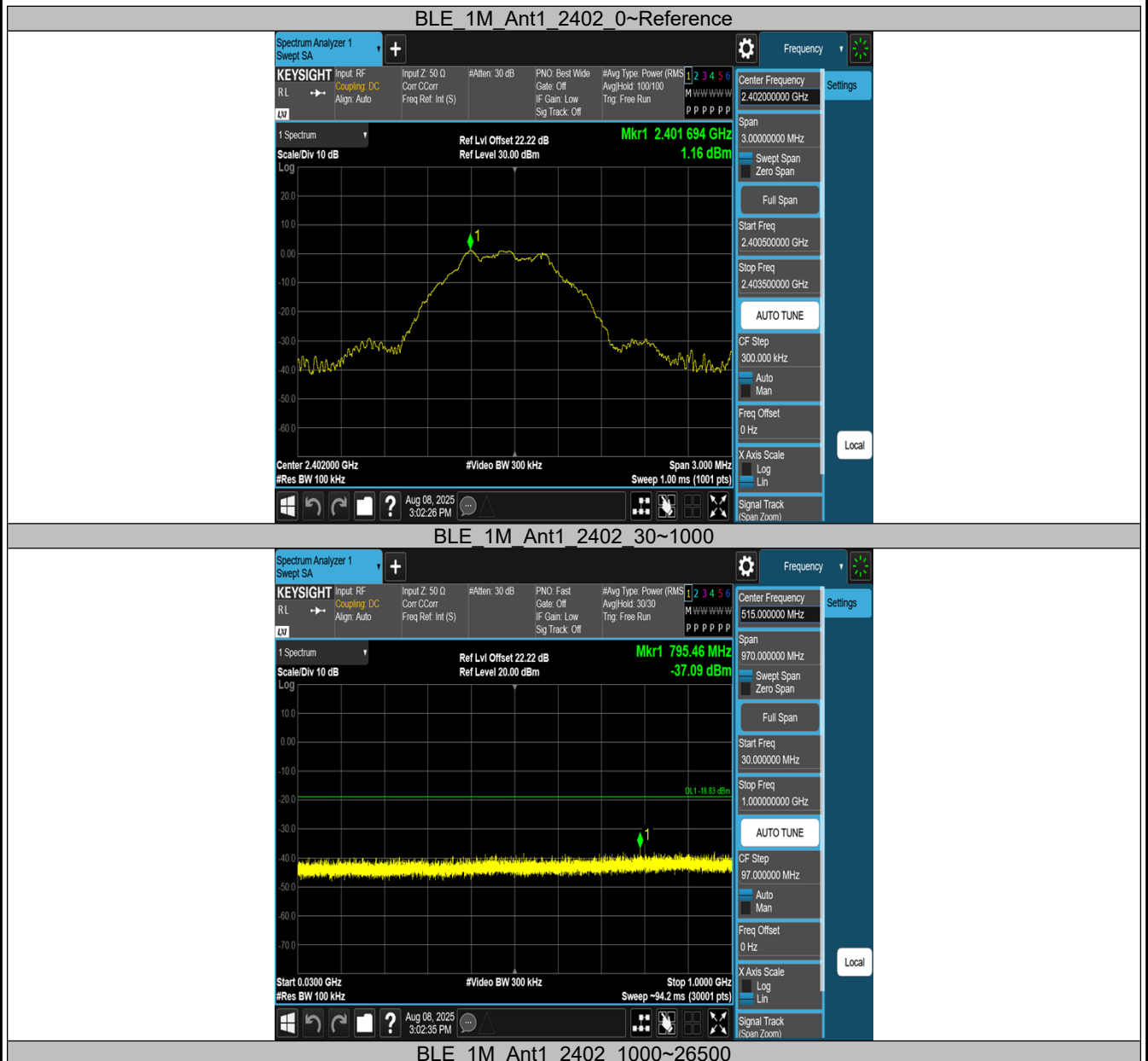


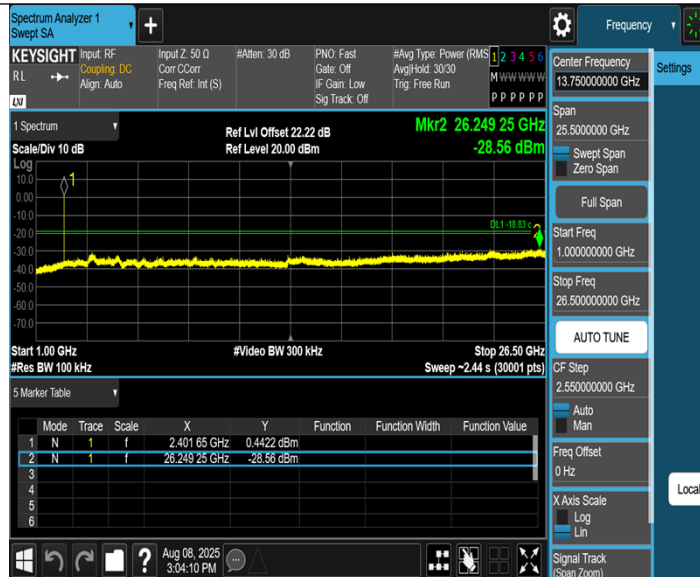
Appendix A.5: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.17	1.17	---	PASS
			30~1000	1.17	-37.09	≤-18.83	PASS
			1000~26500	1.17	-28.57	≤-18.83	PASS
		2440	Reference	1.31	1.31	---	PASS
			30~1000	1.31	-36.82	≤-18.69	PASS
			1000~26500	1.31	-28.34	≤-18.69	PASS
		2480	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-38.2	≤-19.15	PASS
			1000~26500	0.85	-28.96	≤-19.15	PASS

Test Graphs

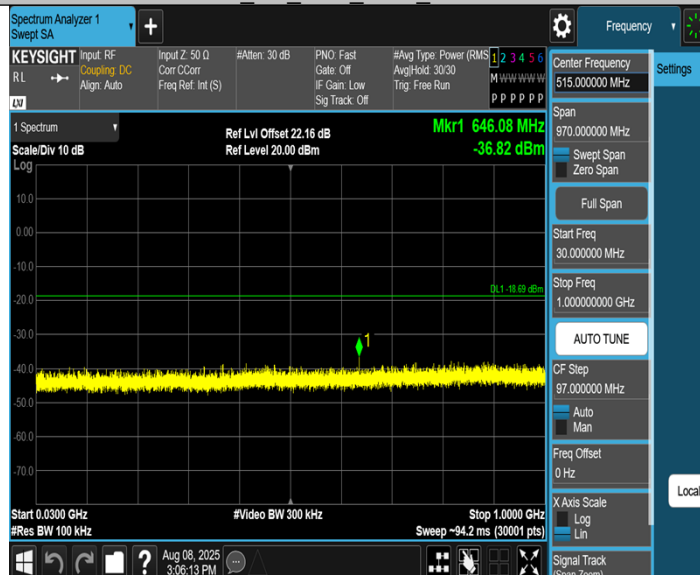




BLE 1M_Ant1_2440_0~Reference



BLE 1M_Ant1_2440_30~1000



BLE 1M_Ant1_2440_1000~26500



BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000



BLE 1M Ant1 2480 1000~26500



Appendix A.6: Test Results of Radiated Spurious Emissions

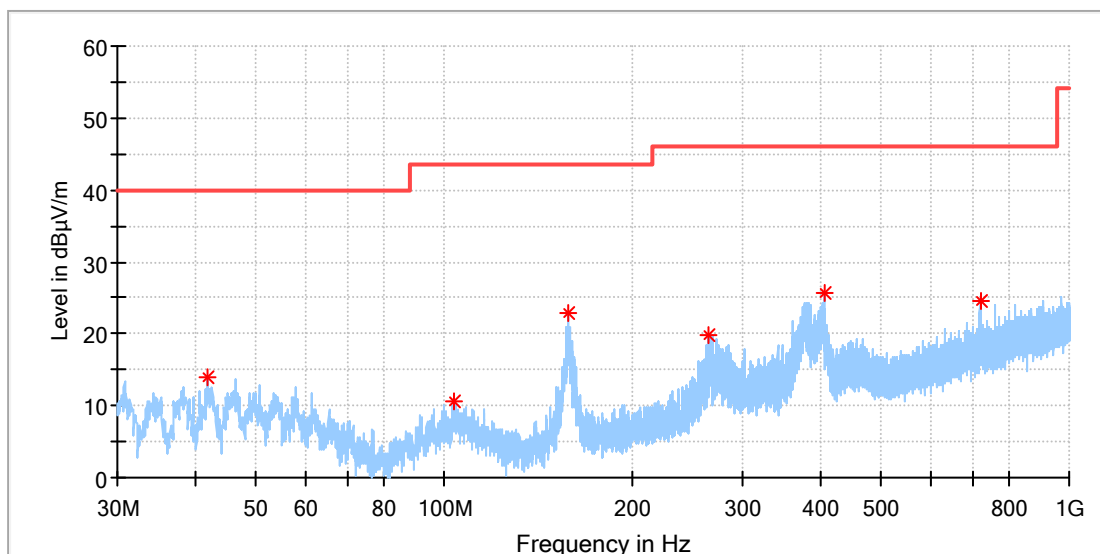
Note:

- 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:	Video Smart Lock
Model:	MYQL90AXXB
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168566437/A004049627-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

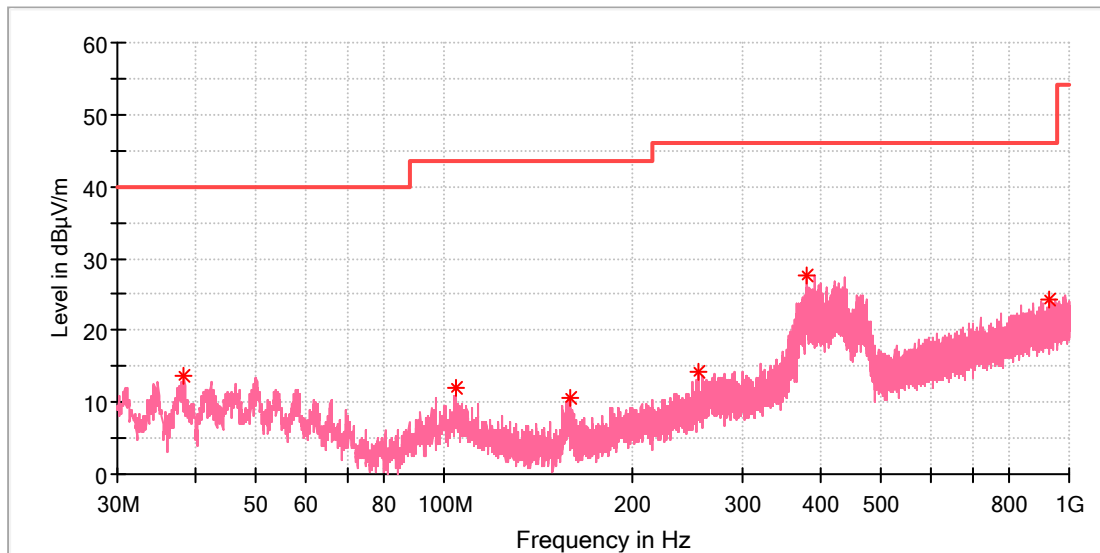
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.863846	13.92	40.00	26.08	100.0	H	131.0	-19.7
103.981154	10.67	43.50	32.83	100.0	H	199.0	-18.9
157.704231	23.00	43.50	20.50	100.0	H	210.0	-21.9
264.180385	19.72	46.00	26.28	100.0	H	210.0	-17.0
404.867692	25.81	46.00	20.19	100.0	H	39.0	-13.6
720.043077	24.65	46.00	21.35	100.0	H	312.0	-7.6

Final_Result

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

EUT Name: Video Smart Lock
Model: MYQL90AXXB
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168566437/A004049627-003
Test Voltage: Battery
Remark: Temp 22 Humi:55%
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)
38.394231	13.59	40.00	26.41	100.0	V	126.0	-20.7
104.764615	11.95	43.50	31.55	100.0	V	226.0	-18.9
159.532308	10.69	43.50	32.81	100.0	V	0.0	-21.8
256.047308	14.17	46.00	31.83	100.0	V	307.0	-17.2
380.244615	27.55	46.00	18.45	100.0	V	164.0	-14.2
928.481154	24.24	46.00	21.76	100.0	V	0.0	-4.5

Final Result

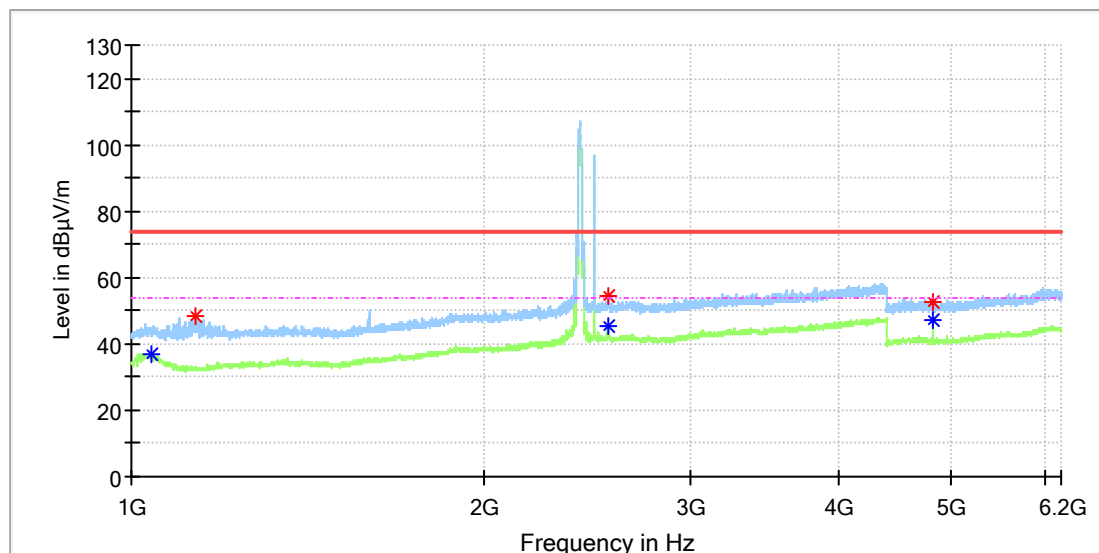
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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1GHz - 18GHz for co-location

Note: The highest waveform in the figure is Bluetooth / Wi-Fi Fundamental.

EUT Information

EUT Name:	Video Smart Lock
Model:	MYQL90AXXB
Test Mode:	WIFI 2.4G+BLE
Order No/Sample No:	168566437/A004049627-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

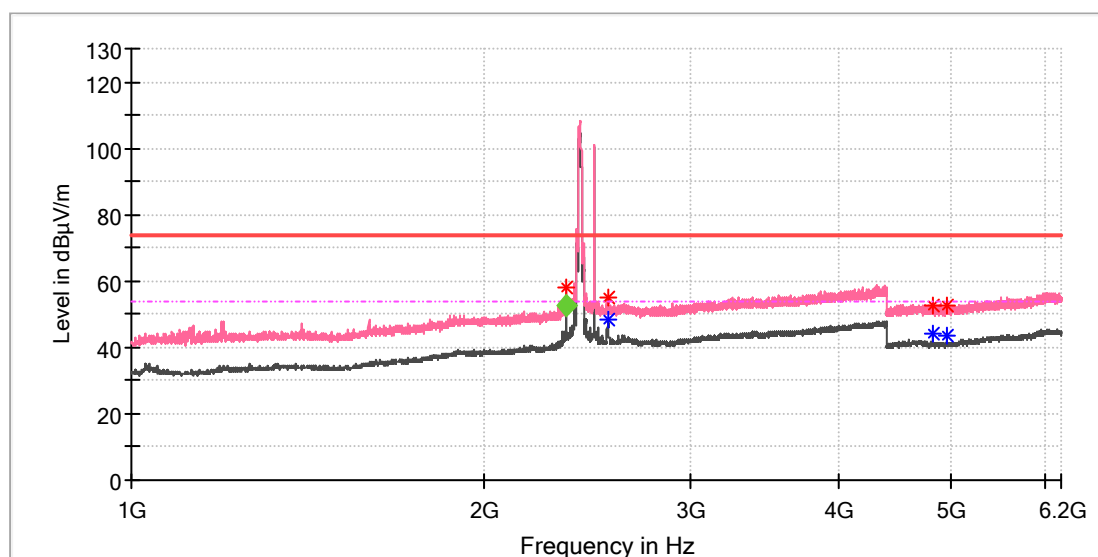
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
1042.000000	---	36.84	54.00	17.16	150.0	H	293.0	0.5
1132.000000	48.18	---	74.00	25.82	150.0	H	326.0	1.1
2546.000000	54.22	---	74.00	19.78	150.0	H	167.0	9.4
2549.000000	---	45.34	54.00	8.66	150.0	H	167.0	9.4
4820.000000	52.73	---	74.00	21.27	150.0	H	349.0	13.3
4824.000000	---	46.88	54.00	7.12	150.0	H	300.0	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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EUT Information

EUT Name:	Video Smart Lock
Model:	MYQL90AXXB
Test Mode:	WIFI 2.4G+BLE
Order No/Sample No:	168566437/A004049627-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
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)
2343.500000	58.13	---	74.00	15.87	150.0	V	136.0	8.4
2549.000000	55.01	---	74.00	18.99	150.0	V	136.0	9.4
2549.000000	---	48.16	54.00	5.84	150.0	V	136.0	9.4
4824.000000	52.54	---	74.00	21.46	150.0	V	31.0	13.3
4824.000000	---	44.43	54.00	9.57	150.0	V	31.0	13.3
4960.000000	---	43.38	54.00	10.62	150.0	V	254.0	13.3
4963.500000	52.40	---	74.00	21.60	150.0	V	303.0	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)
2343.425000	---	52.48	54.00	1.52	150.0	V	131.0	8.4

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0

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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