

Appendix A: Test Results

APPENDIX A: TEST RESULTS	1
APPENDIX A.1: TEST RESULTS OF FIELD STRENGTH OF FUNDAMENTAL & HARMONICS	2
30MHz - 1GHz	2
1GHz - 18GHz	4
APPENDIX A.2: TEST RESULTS OF 20dB BANDWIDTH	16
APPENDIX A.3: TEST RESULTS OF 99% BANDWIDTH	18
APPENDIX A.4: TEST RESULTS OF BAND EDGE	20

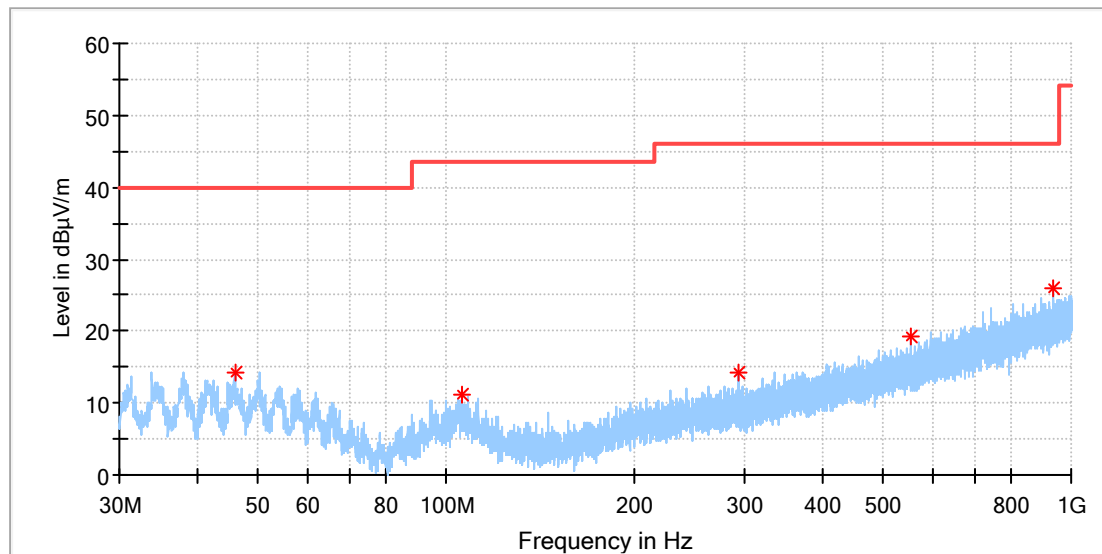
Appendix A.1: Test Results of Field strength of fundamental & harmonics

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:	Robomax Apex
Model:	ROB-APX-R01
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168570547/A004088124-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

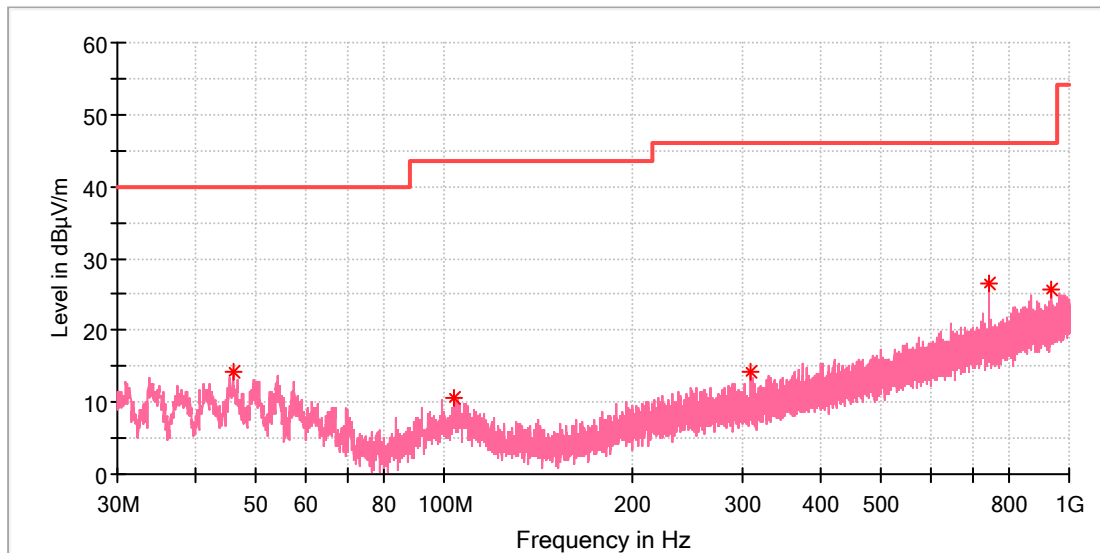
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.893077	14.35	40.00	25.65	100.0	H	155.0	-18.8
105.734615	11.19	43.50	32.31	100.0	H	53.0	-18.9
292.646154	14.28	46.00	31.72	100.0	H	179.0	-16.4
554.359615	19.20	46.00	26.80	100.0	H	179.0	-10.7
938.442308	26.06	46.00	19.94	100.0	H	195.0	-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: Robomax Apex
Model: ROB-APX-R01
Test Mode: 2.4GHz_Mid channel
Order No/Sample No: 168570547/A004088124-001
Test Voltage: Battery
Remark: Temp 22 Humi:55%
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)
45.930385	14.19	40.00	25.81	100.0	V	185.0	-18.8
103.943846	10.57	43.50	32.93	100.0	V	17.0	-18.9
309.733077	14.28	46.00	31.72	100.0	V	316.0	-16.0
742.502308	26.48	46.00	19.52	100.0	V	234.0	-7.2
938.442308	25.68	46.00	20.32	100.0	V	209.0	-4.4

Final Result

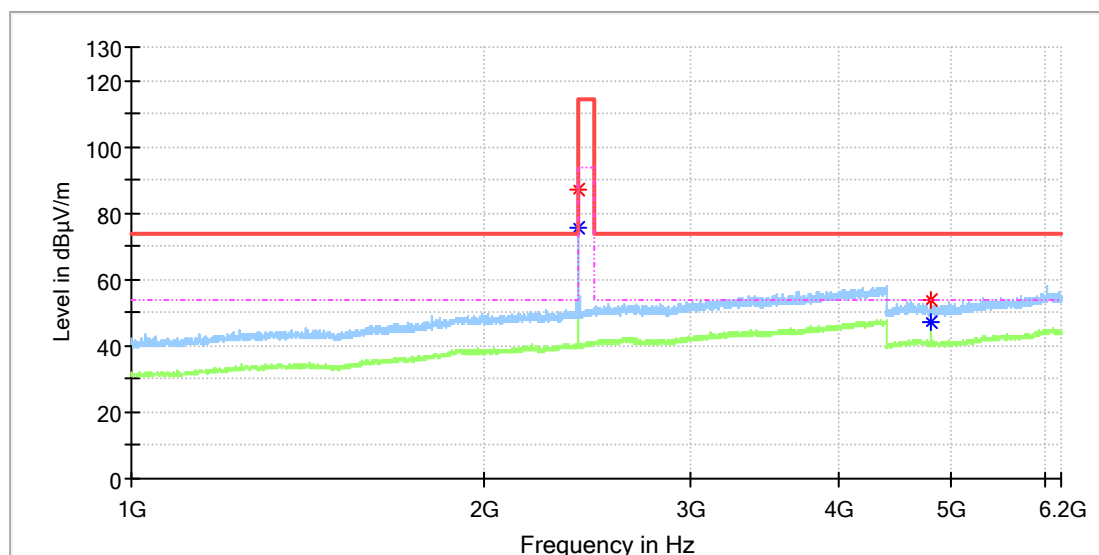
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Robomax Apex
Model:	ROB-APX-R01
Test Mode:	2.4GHz Low channel
Order No/Sample No:	168570547/A004088124-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
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)
2405.000000	87.17	---	114.00	26.83	150.0	H	0.0	8.5
2406.000000	---	75.79	94.00	18.21	150.0	H	0.0	8.5
4810.000000	---	46.88	54.00	7.12	150.0	H	277.0	13.3
4810.000000	54.07	---	74.00	19.93	150.0	H	277.0	13.3

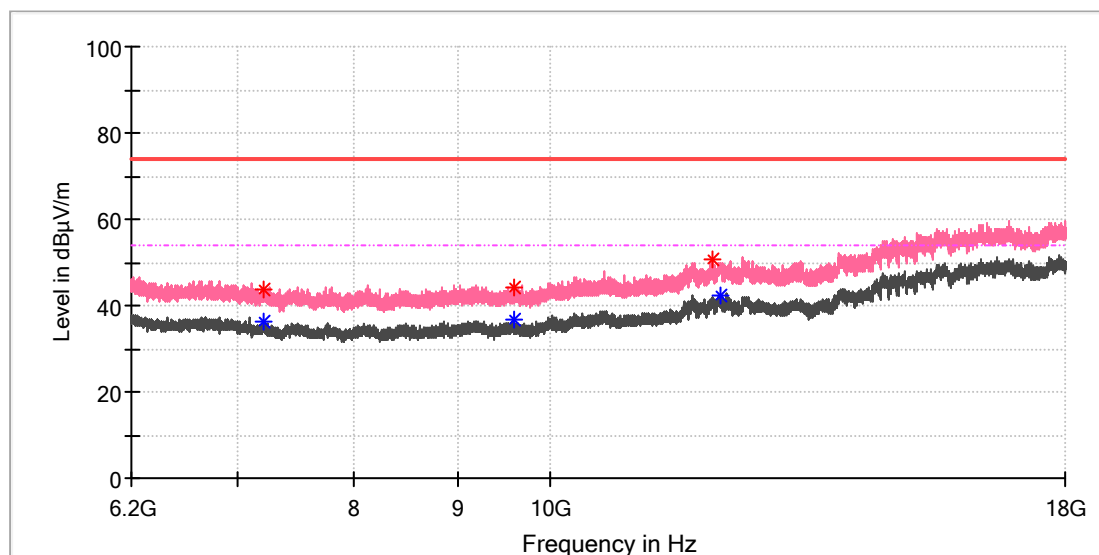
Final Result

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)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Robomax Apex
Model:	ROB-APX-R01
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168570547/A004088124-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

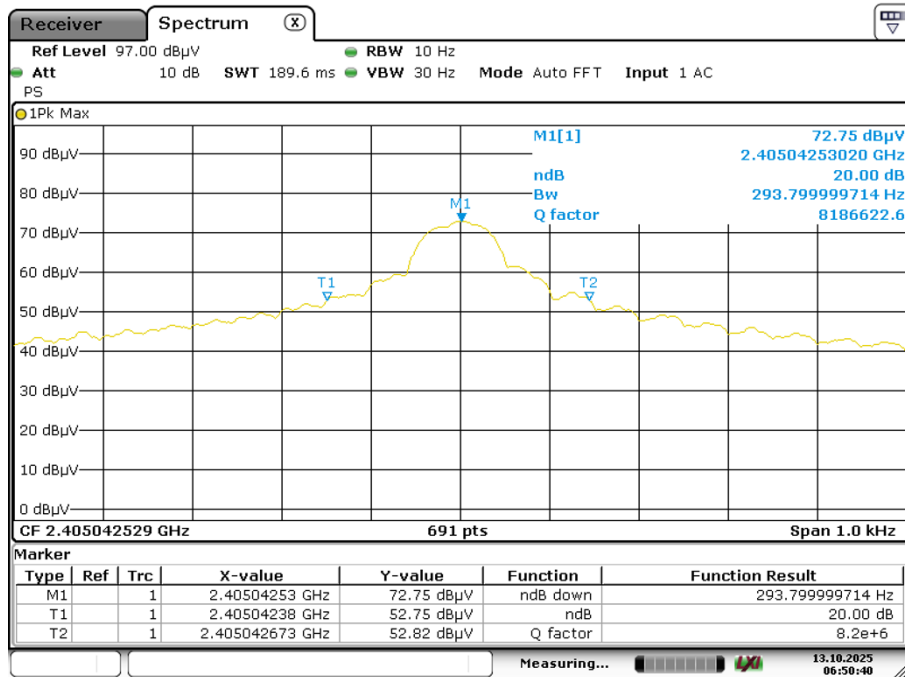
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7214.308333	43.84	---	74.00	30.16	150.0	V	256.0	8.7
7214.800000	---	36.45	54.00	17.55	150.0	V	0.0	8.7
9586.108333	44.33	---	74.00	29.67	150.0	V	289.0	10.3
9606.266667	---	36.57	54.00	17.43	150.0	V	0.0	10.4
12033.625000	50.85	---	74.00	23.15	150.0	V	0.0	16.0
12138.350000	---	42.30	54.00	11.70	150.0	V	268.0	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)
---	---	---	---	---	---		---	---

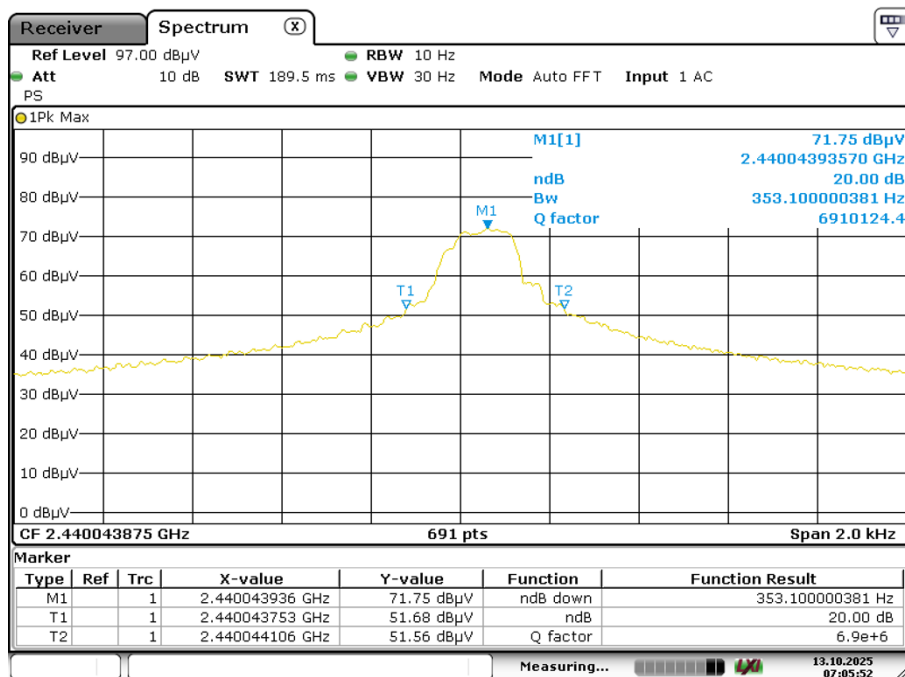
Appendix A.2: Test Results of 20dB Bandwidth

2405MHz



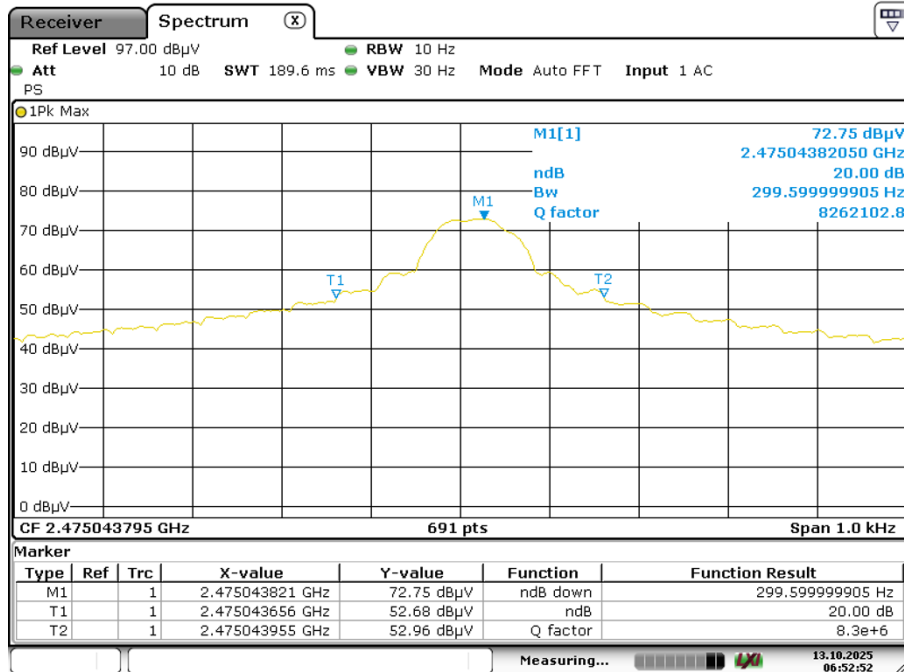
Date: 13.OCT.2025 06:50:39

2440MHz



Date: 13.OCT.2025 07:05:51

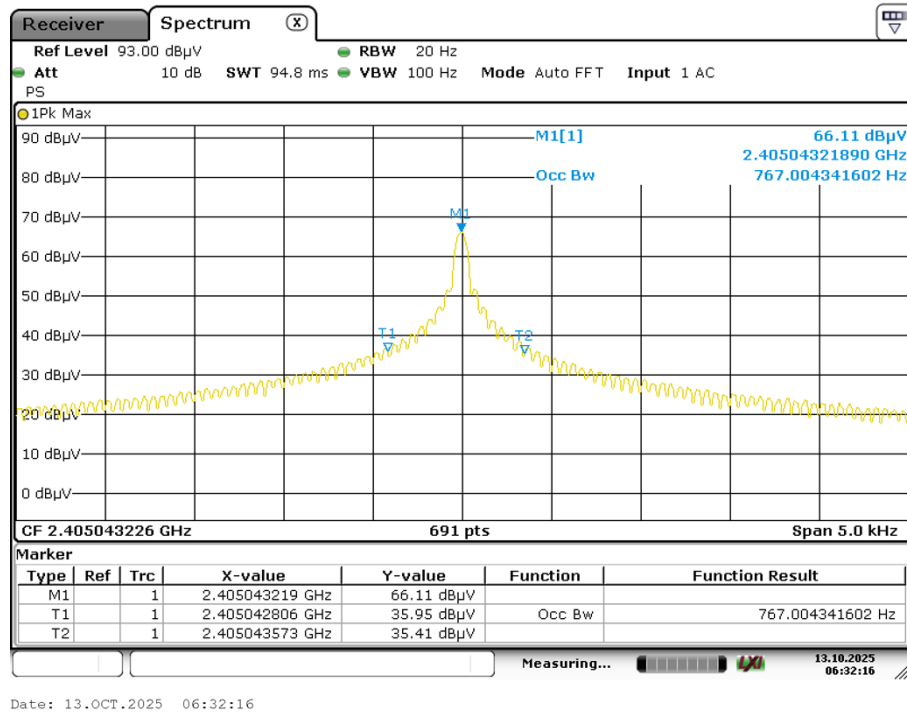
2475MHz



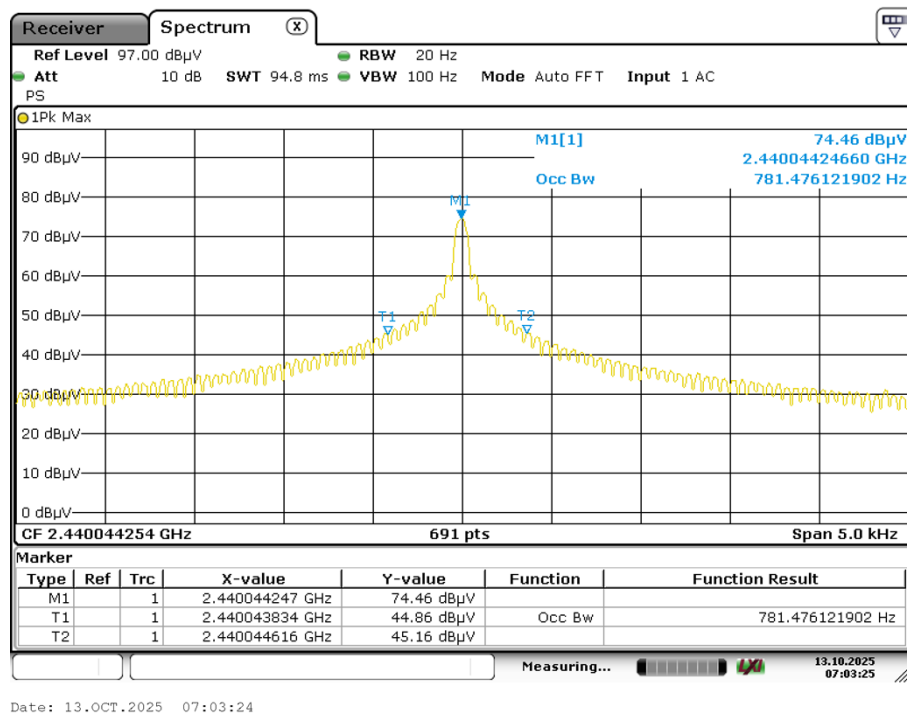
Date: 13.OCT.2025 06:52:52

Appendix A.3: Test Results of 99% Bandwidth

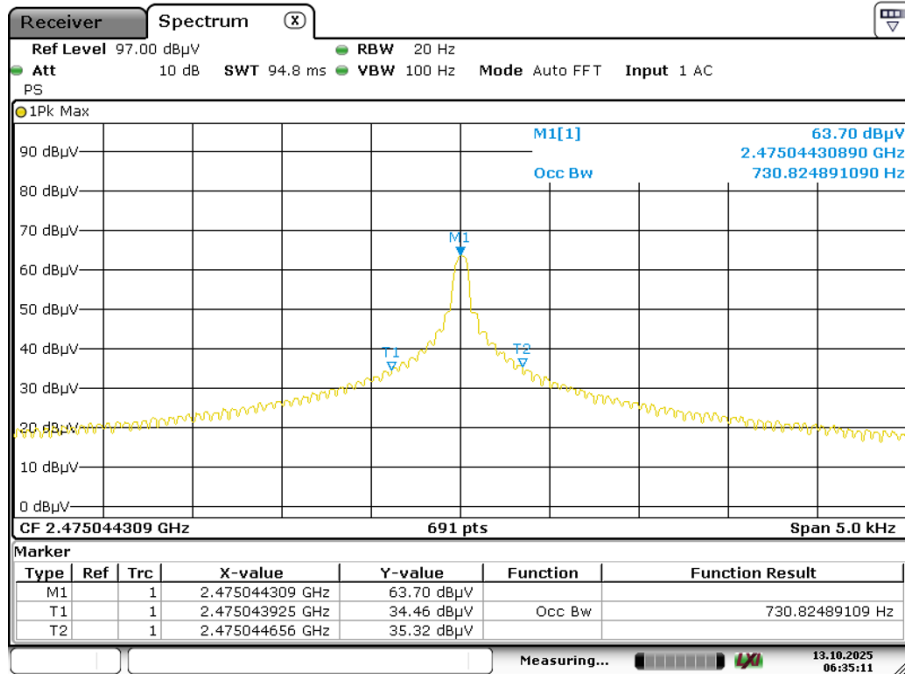
2405MHz



2440MHz



2475MHz

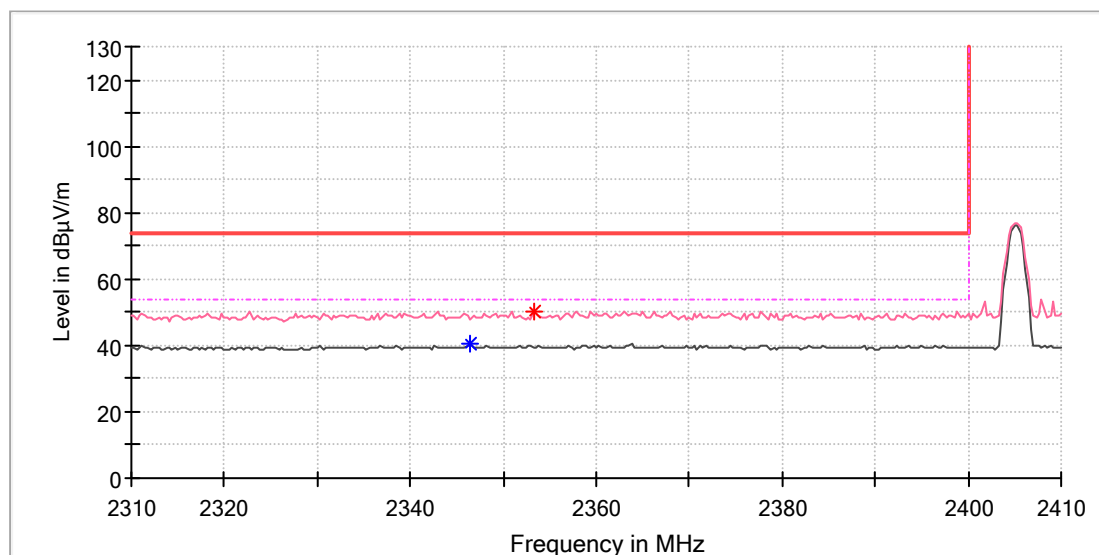


Date: 13.OCT.2025 06:35:11

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.00	100.00	100.00	100.00	100.00	100.00		100.00	100.00

EUT Information

EUT Name:	Robomax Apex
Model:	ROB-APX-R01
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168570547/A004088124-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
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)
2346.470588	---	40.63	54.00	13.37	150.0	V	144.0	8.5
2353.235294	50.16	---	74.00	23.84	150.0	V	102.0	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)
---	---	---	---	---	---		---	---

