

Appendix A: Test Results

APPENDIX A: TEST RESULTS	1
APPENDIX A.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	2
30MHz - 1GHz (Worst case)	2
1GHz - 18GHz	4
APPENDIX A.2: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	8

Appendix A.1: Test Results of Radiated Spurious Emissions

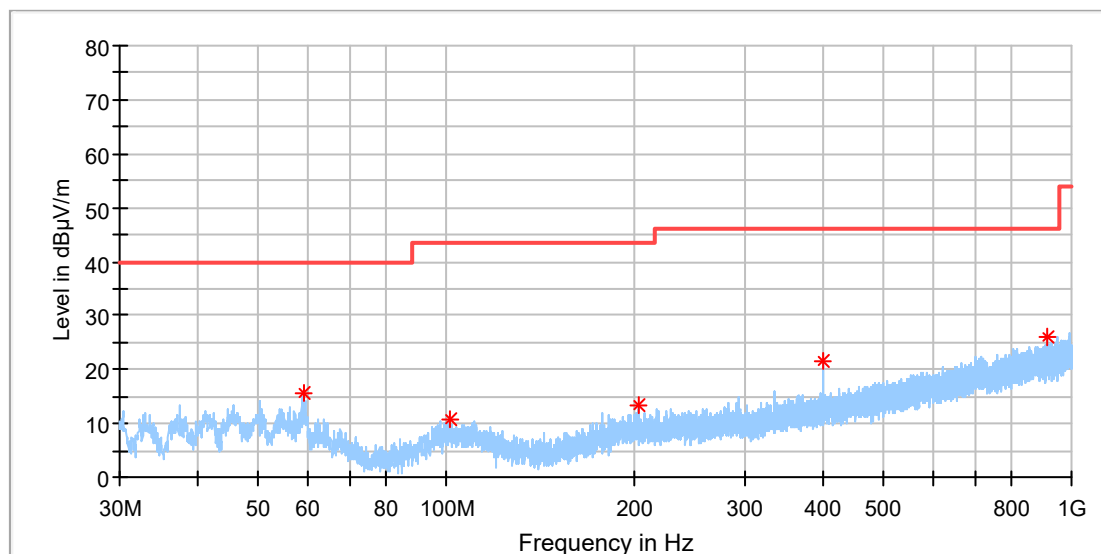
Note:

- 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.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168467414/A003672389-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

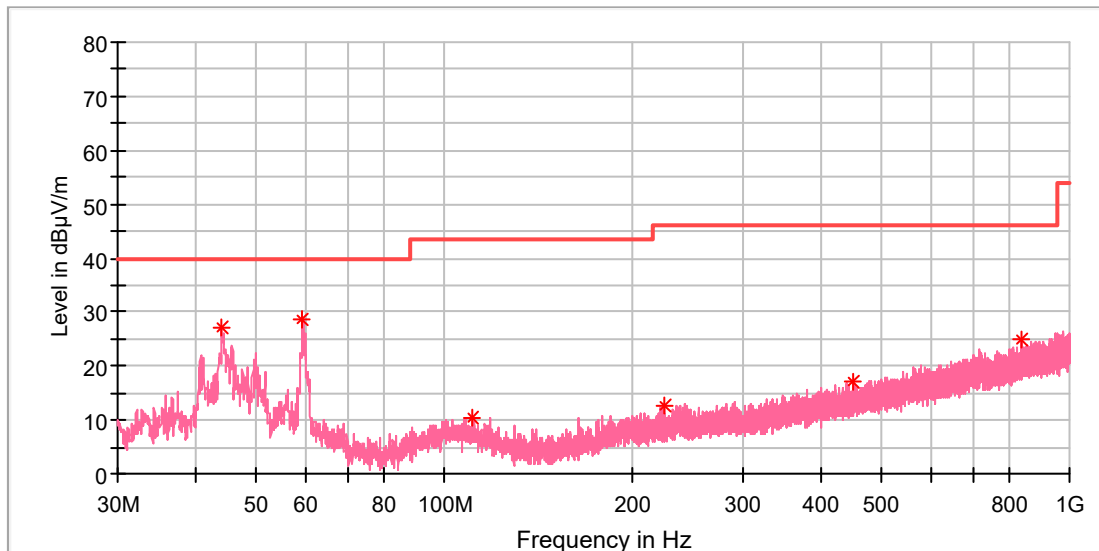
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.286539	15.51	40.00	24.49	100.0	H	262.0	-19.2
101.518846	10.85	43.50	32.65	100.0	H	302.0	-19.2
202.958462	13.57	43.50	29.93	100.0	H	355.0	-19.3
399.980385	21.47	46.00	24.53	100.0	H	286.0	-14.1
913.259615	25.95	46.00	20.05	100.0	H	0.0	-5.3

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168467414/A003672389-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
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)
44.102308	27.28	40.00	12.72	100.0	V	16.0	-19.3
59.361154	28.51	40.00	11.49	100.0	V	44.0	-19.2
110.957692	10.43	43.50	33.07	100.0	V	206.0	-19.5
225.417692	12.80	46.00	33.21	100.0	V	335.0	-18.6
449.040000	17.01	46.00	28.99	100.0	V	34.0	-13.3
838.159231	24.96	46.00	21.04	100.0	V	0.0	-6.1

Final_Result

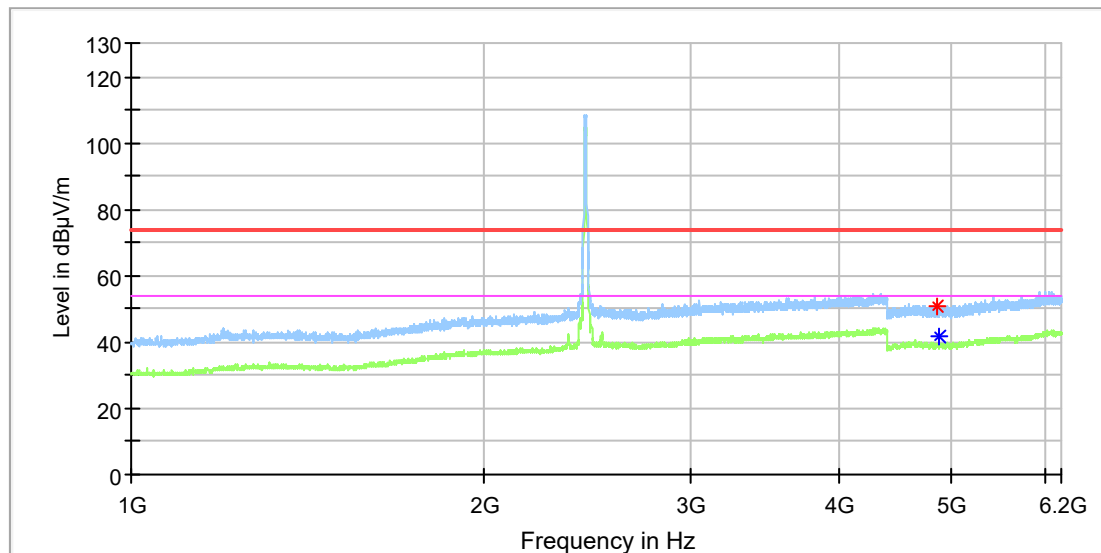
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168467414/A003672389-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

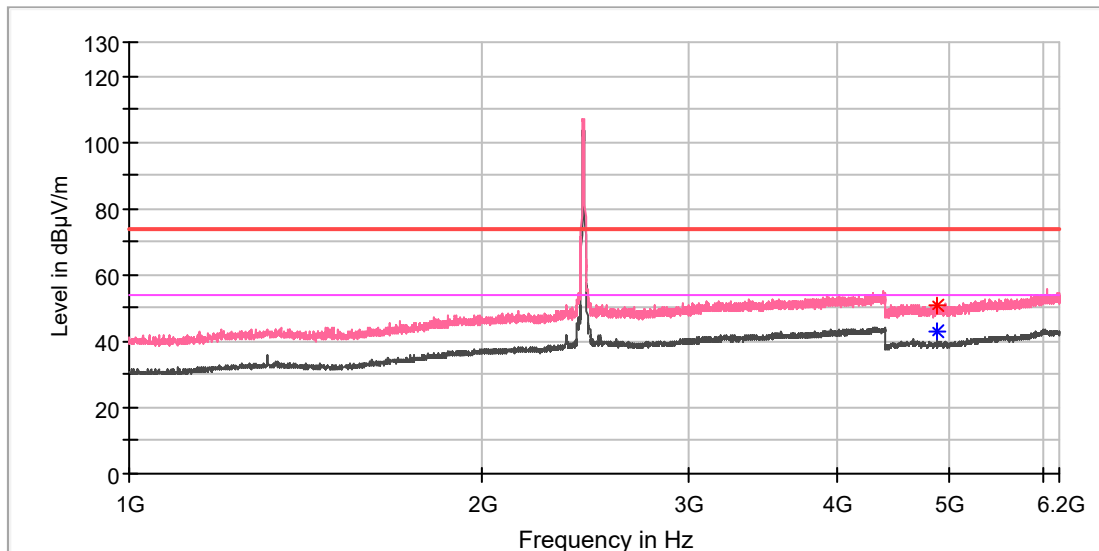
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4851.500000	50.59	---	74.00	23.41	150.0	H	142.0	11.8
4874.000000	---	41.53	54.00	12.47	150.0	H	108.0	11.8

Final_Result

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

EUT Information

EUT Name: Robotic Vacuum Cleaner
Model: QR2PSL
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168467414/A003672389-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

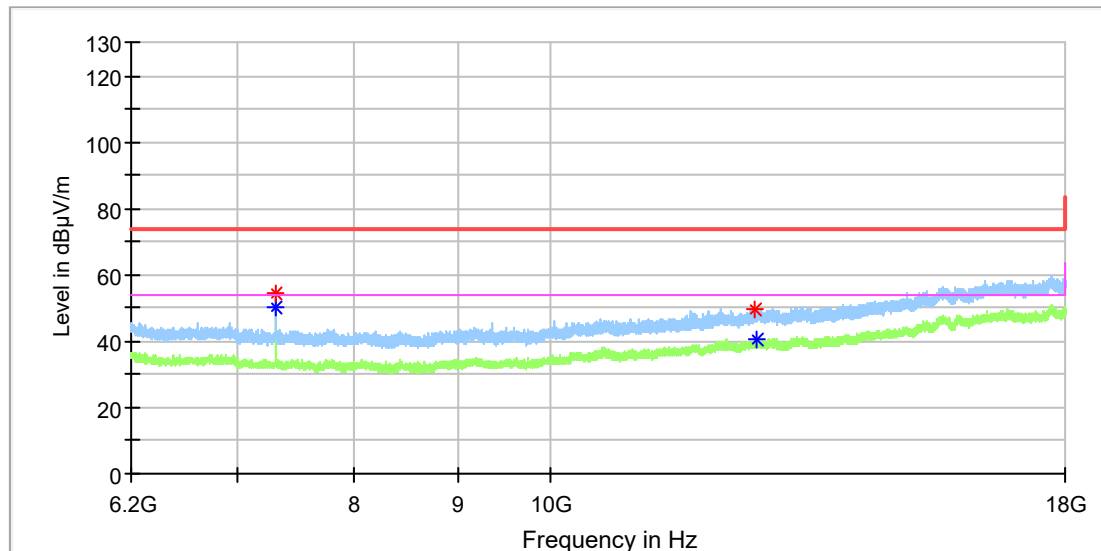
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.500000	50.78	---	74.00	23.22	150.0	V	115.0	11.8
4874.000000	---	42.86	54.00	11.14	150.0	V	140.0	11.8

Final Result

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

EUT Information

EUT Name: Robotic Vacuum Cleaner
Model: QR2PSL
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168467414/A003672389-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

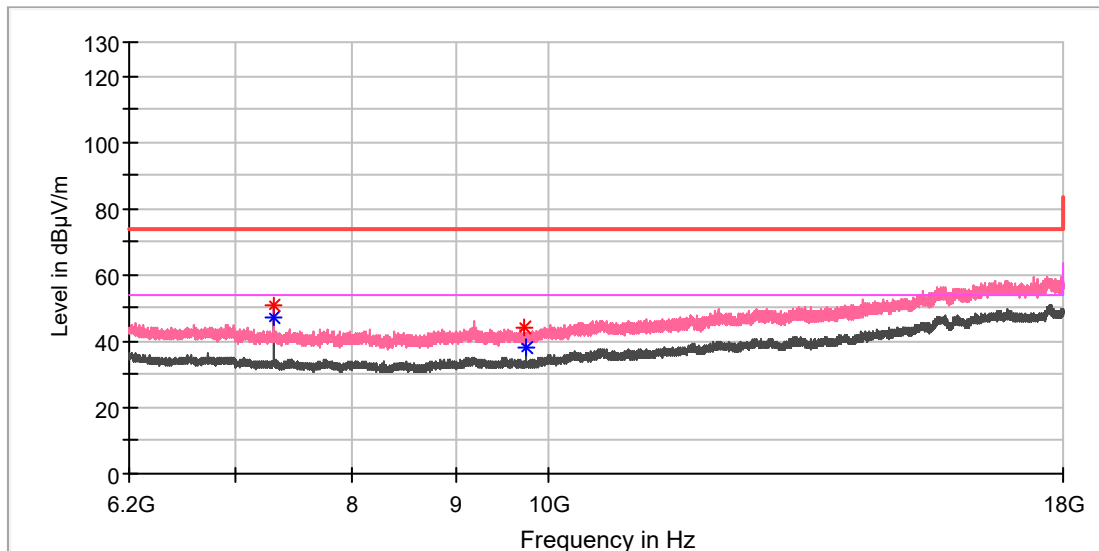
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.691667	54.49	---	74.00	19.51	150.0	H	35.0	8.2
7311.658333	---	50.40	54.00	3.60	150.0	H	35.0	8.2
12639.358333	49.46	---	74.00	24.54	150.0	H	145.0	15.0
12647.225000	---	40.67	54.00	13.33	150.0	H	84.0	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: Robotic Vacuum Cleaner
Model: QR2PSL
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168467414/A003672389-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
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)
7309.200000	51.06	---	74.00	22.94	150.0	V	19.0	8.2
7309.691667	---	47.01	54.00	6.99	150.0	V	19.0	8.2
9736.558333	44.08	---	74.00	29.92	150.0	V	238.0	10.4
9747.866667	---	38.25	54.00	15.75	150.0	V	70.0	10.4

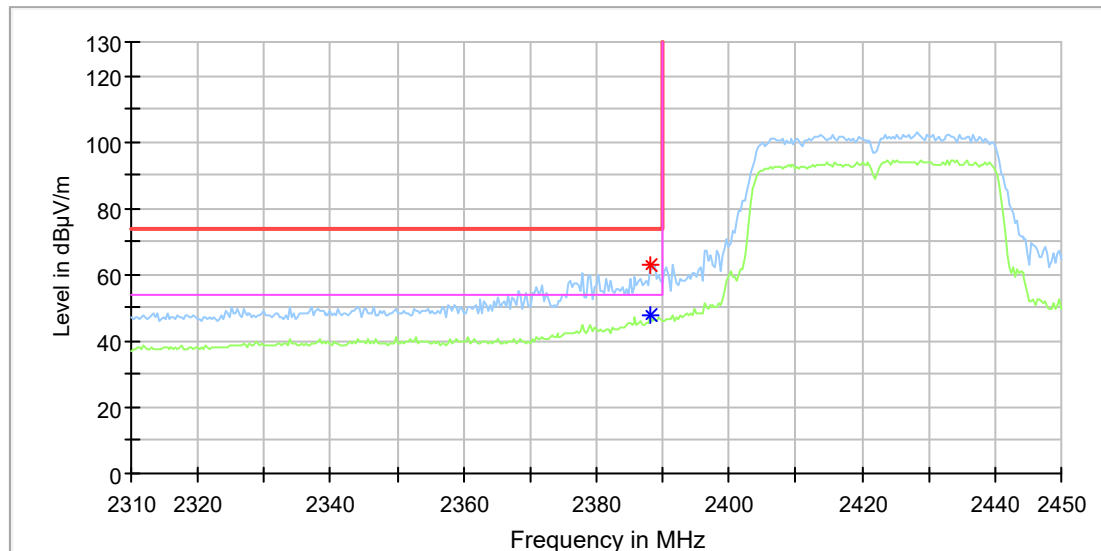
Final_Result

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

Appendix A.2: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168467414/A003672389-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

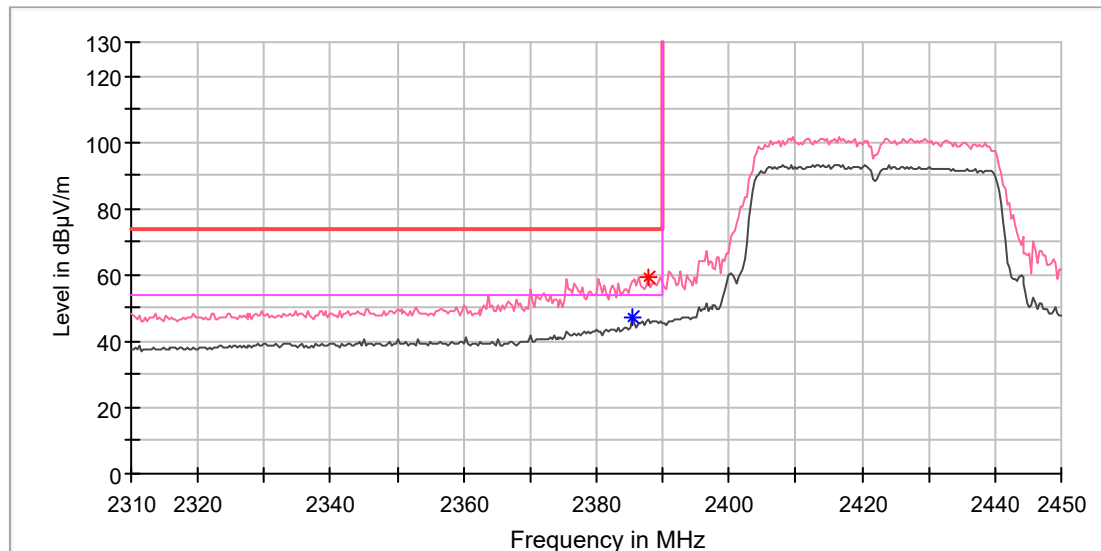
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.235294	63.10	---	74.00	10.90	150.0	H	351.0	7.0
2388.235294	---	47.73	54.00	6.27	150.0	H	351.0	7.0

Final Result

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

EUT Information

EUT Name: Robotic Vacuum Cleaner
Model: QR2PSL
Test Mode: WIFI 2.4G_11n40_Ch3
Order No/Sample No: 168467414/A003672389-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

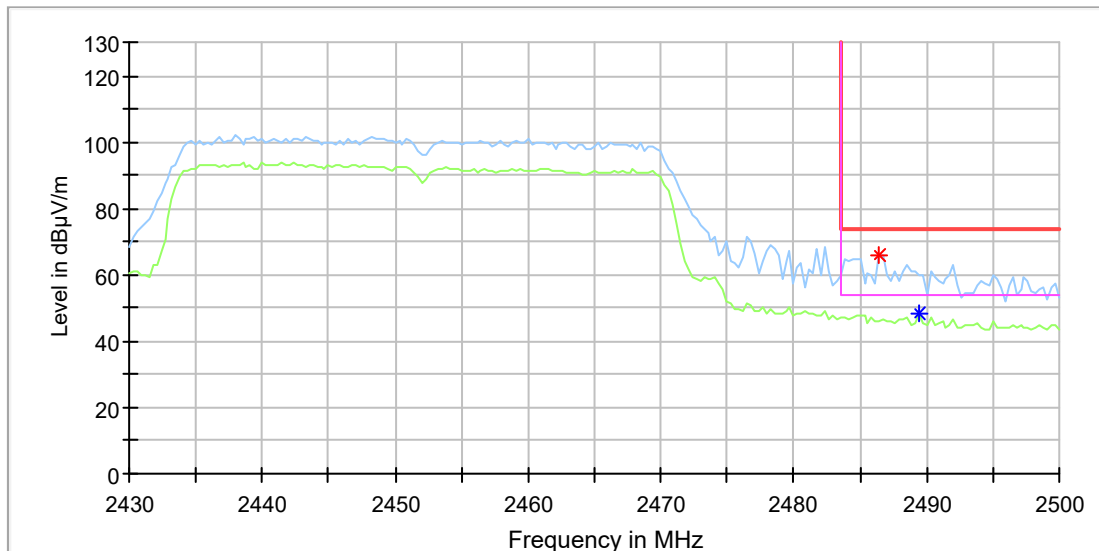
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.294118	---	47.13	54.00	6.87	150.0	V	170.0	7.0
2387.941177	59.52	---	74.00	14.48	150.0	V	191.0	7.0

Final Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	168467414/A003672389-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

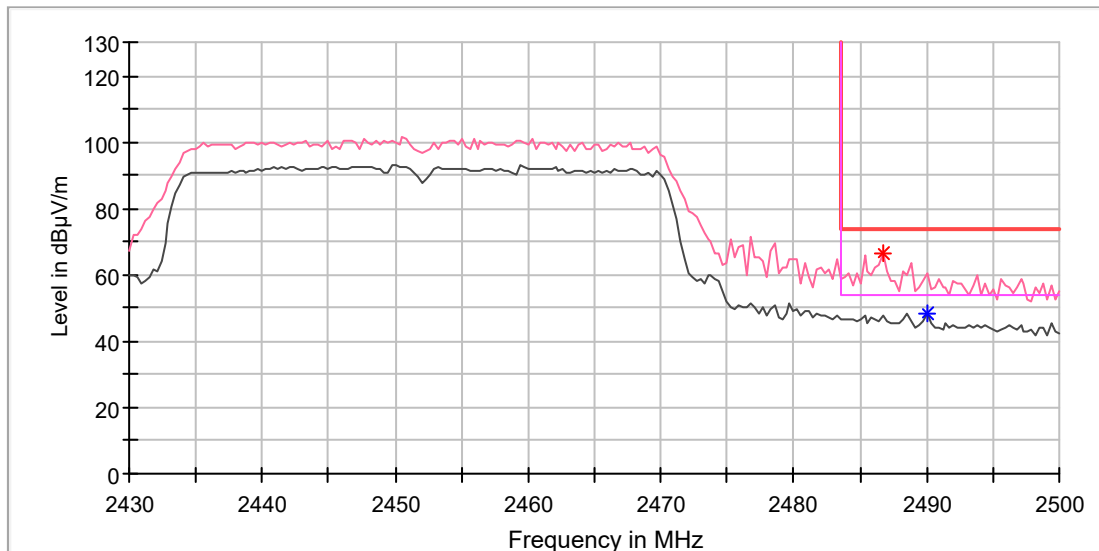
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.470588	66.02	---	74.00	7.98	150.0	H	327.0	7.4
2489.411765	---	48.10	54.00	5.90	150.0	H	327.0	7.4

Final Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	168467414/A003672389-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
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)
2486.764706	66.56	---	74.00	7.44	150.0	V	176.0	7.4
2490.000000	---	48.56	54.00	5.44	150.0	V	176.0	7.4

Final_Result

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