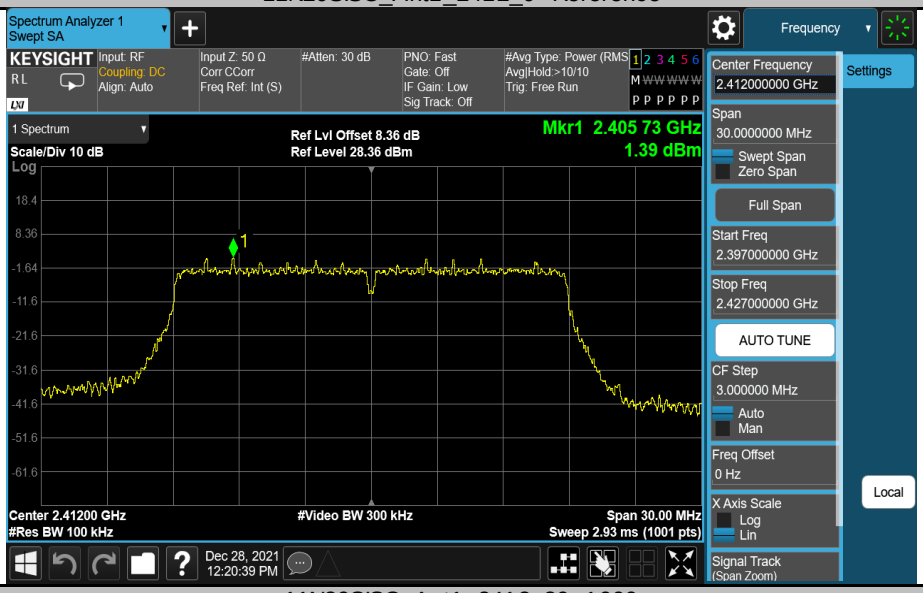
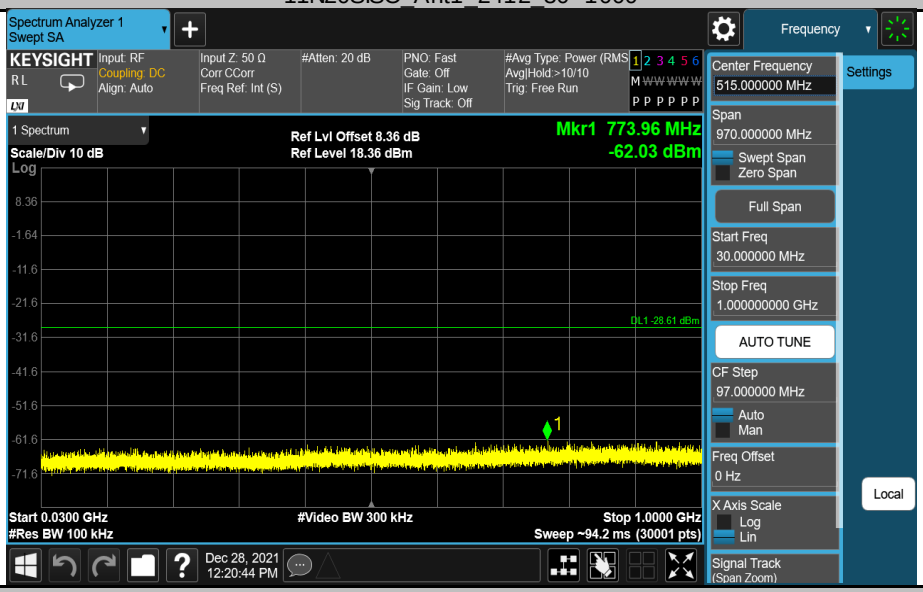
11N20SISO_Ant1_2412_0~Reference



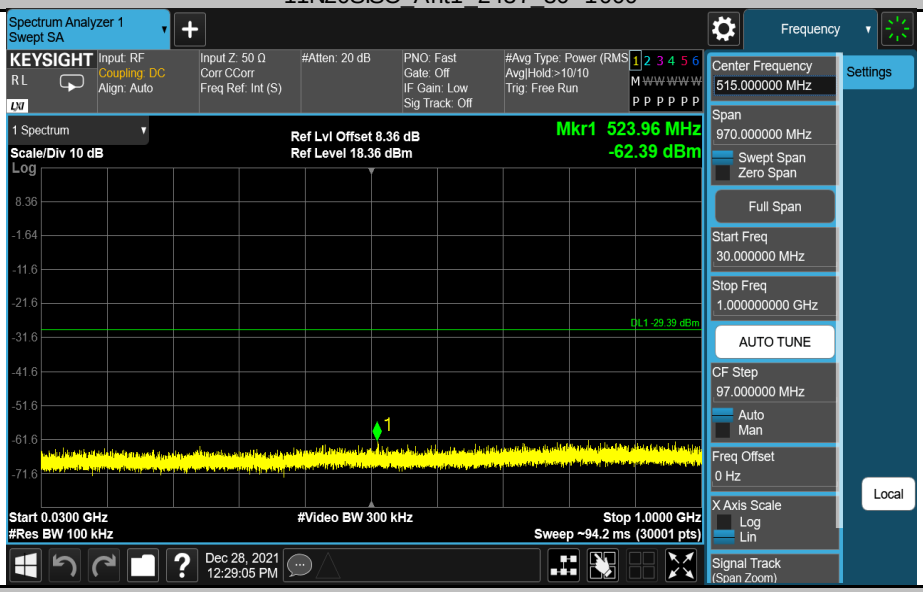
11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500

11N20SISO_Ant1_2437_0~Reference

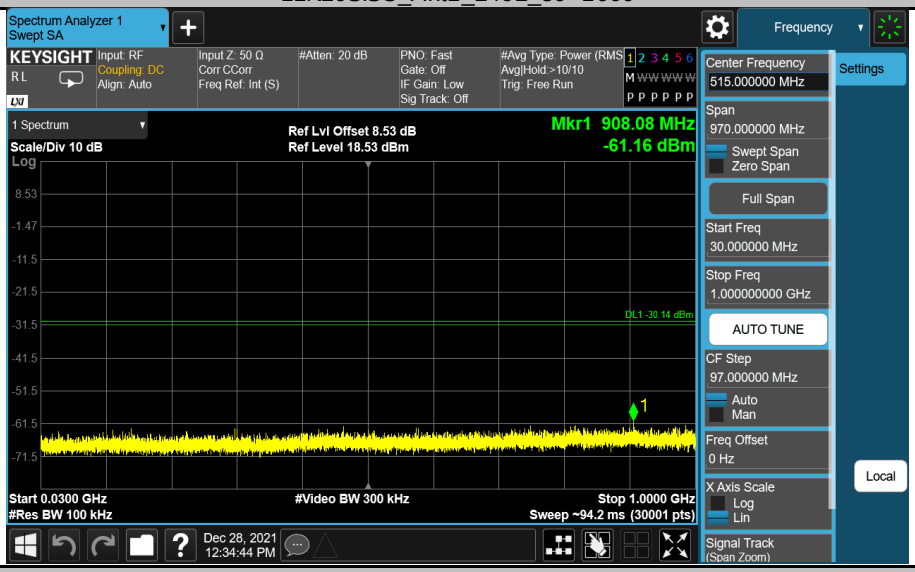
11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500

11N20SISO_Ant1_2462_0~Reference

11N20SISO_Ant1_2462_30~1000

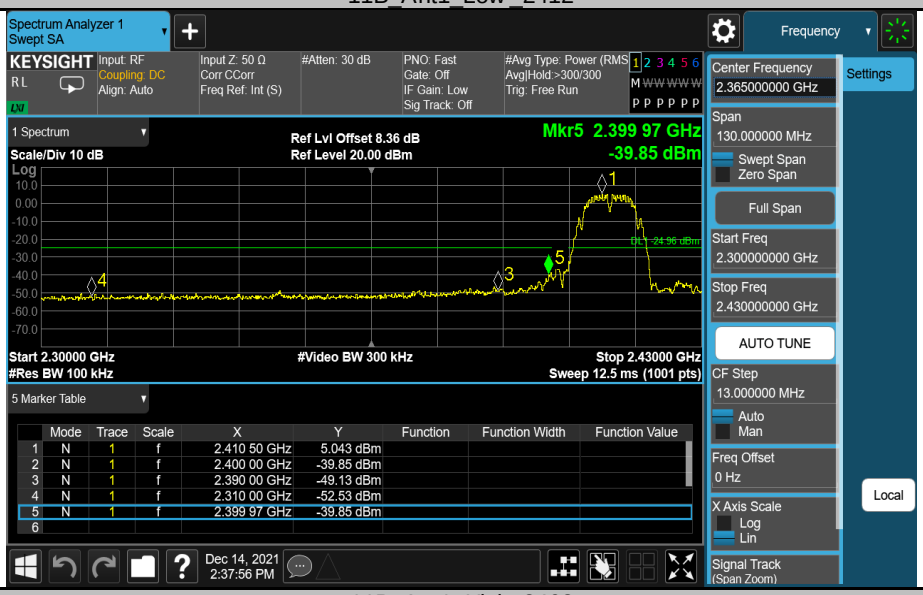


11N20SISO_Ant1_2462_1000~26500

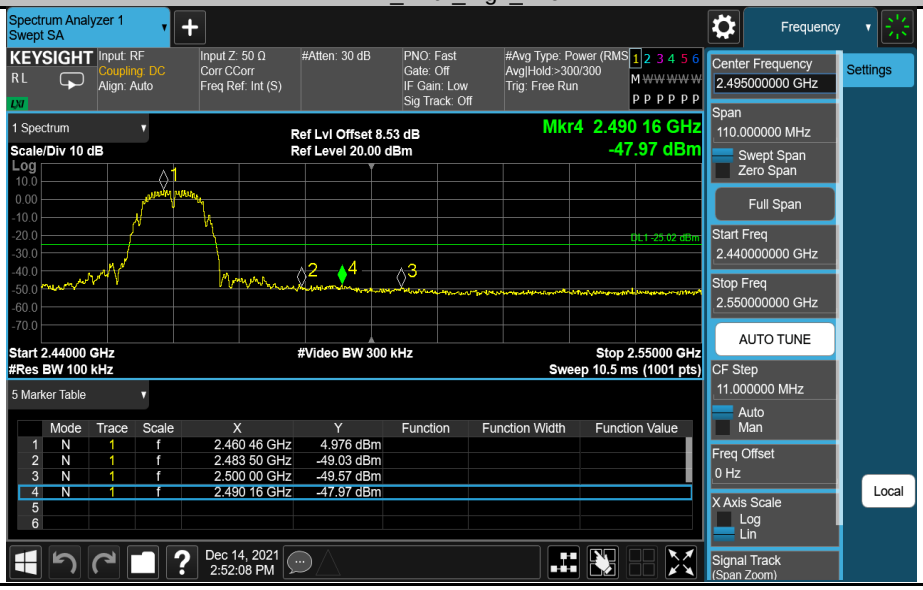
Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.04	-39.85	≤-24.96	PASS
		High	2462	4.98	-47.97	≤-25.02	PASS
11G	Ant1	Low	2412	3.30	-29.98	≤-26.71	PASS
		High	2462	2.31	-40.35	≤-27.69	PASS
11N20SISO	Ant1	Low	2412	1.50	-35.10	≤-28.51	PASS
		High	2462	0.22	-45.74	≤-29.78	PASS

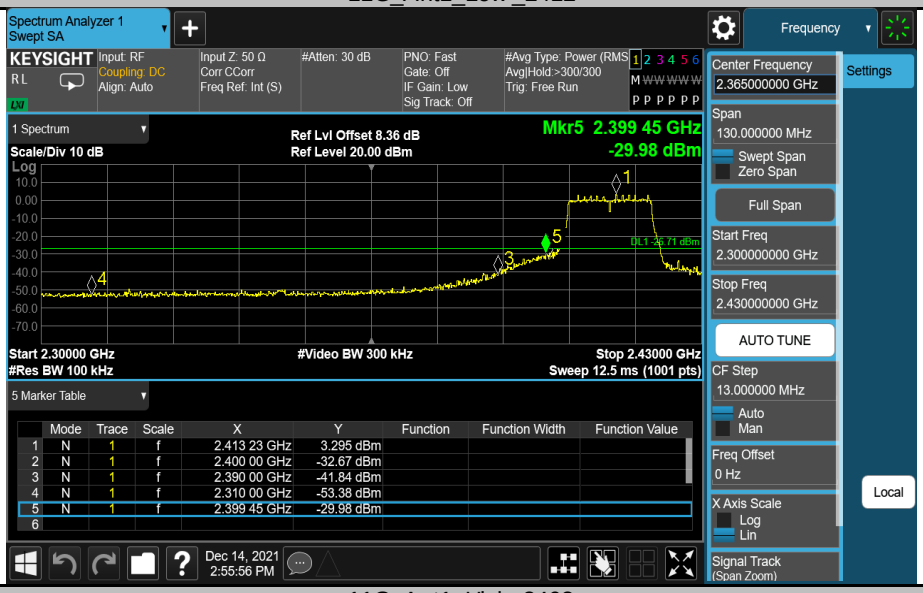
11B_Ant1_Low_2412



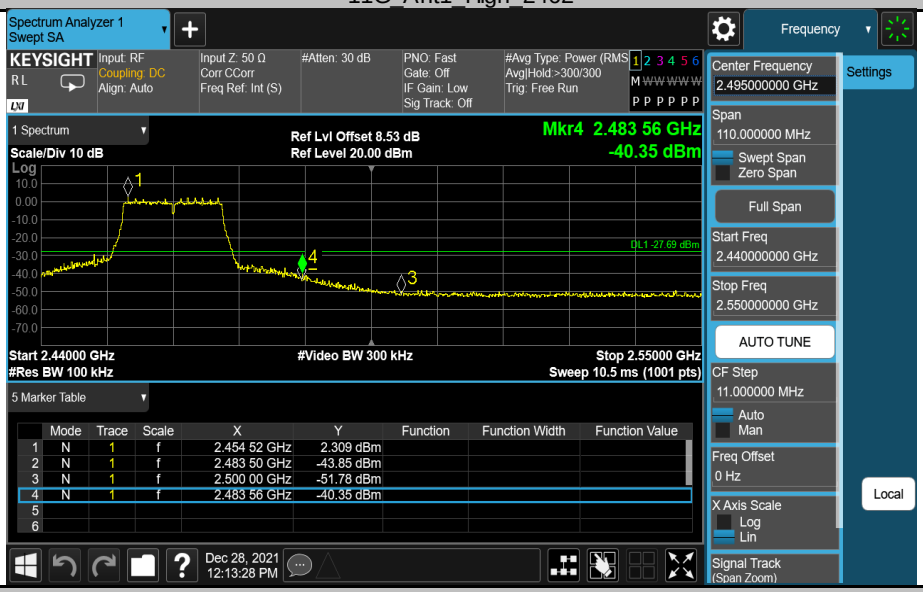
11B_Ant1_High_2462



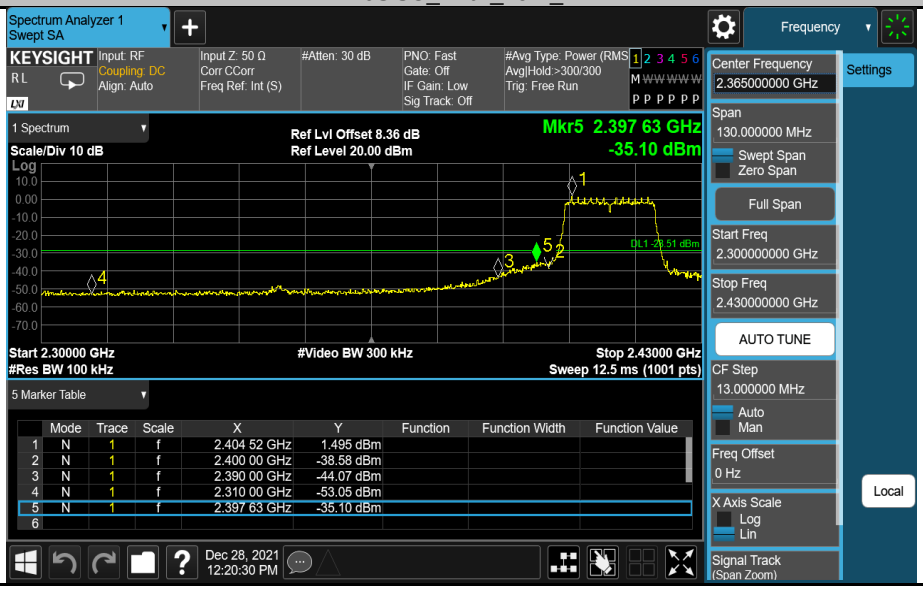
11G_Ant1_Low_2412



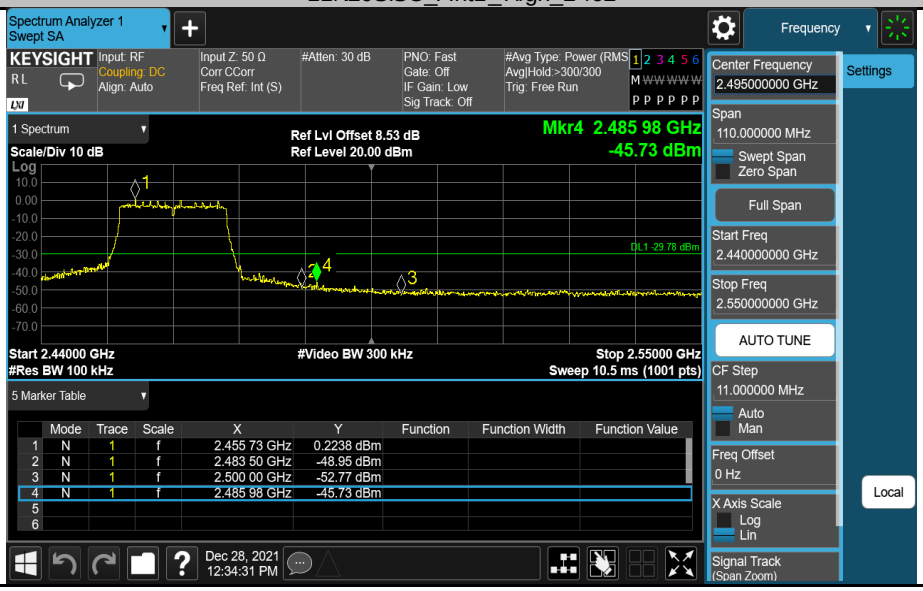
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



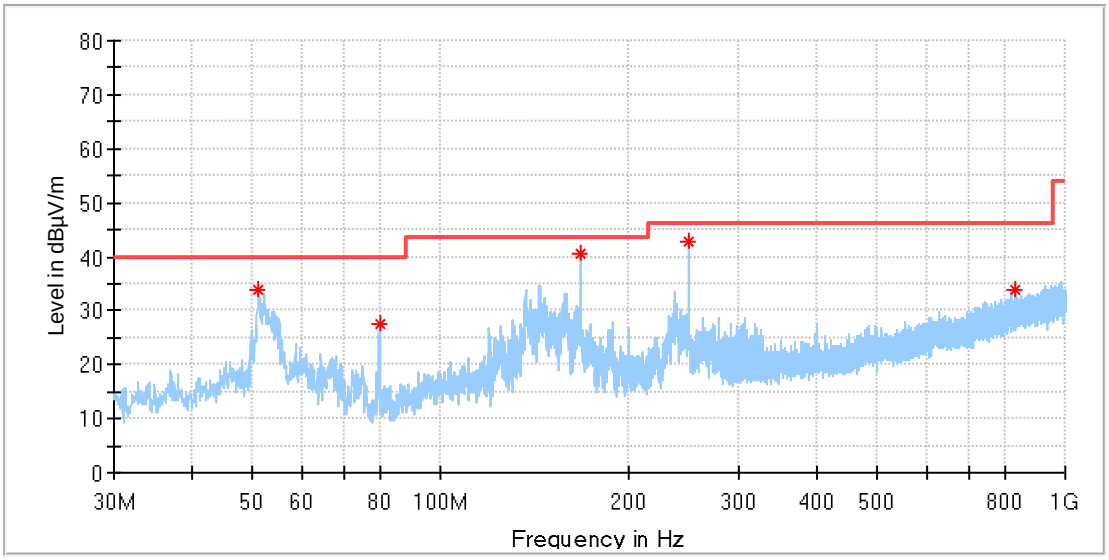
Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.5: Test Results of Radiated Spurious Emissions

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11b_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

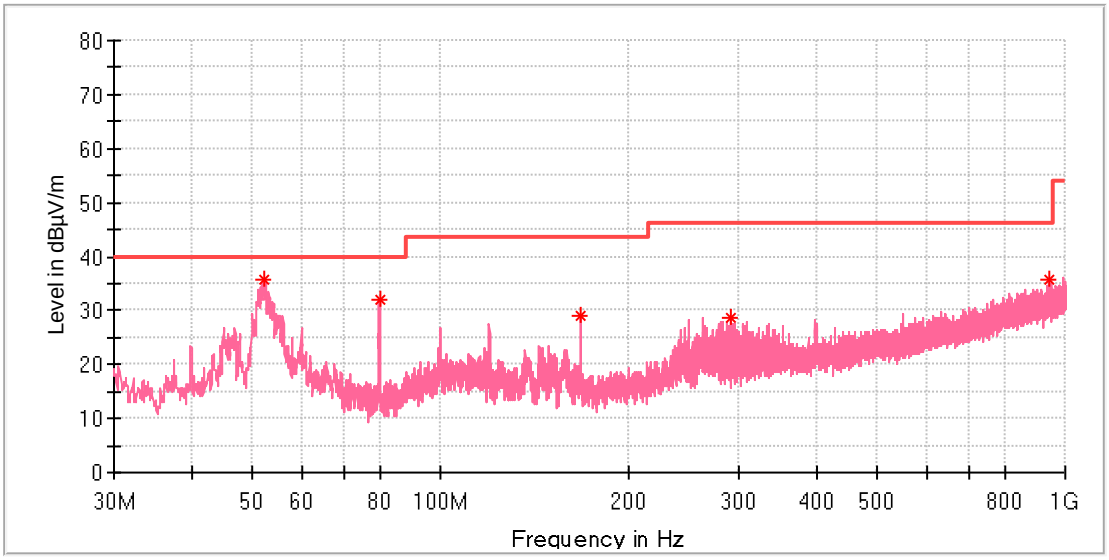
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.146000	33.80	40.00	6.20	100.0	H	186.0	-18.3
79.809500	27.48	40.00	12.52	100.0	H	186.0	-23.5
168.031000	40.42	43.50	3.08	100.0	H	150.0	-21.3
249.996000	42.71	46.00	3.29	100.0	H	54.0	-17.4
834.469500	33.99	46.00	12.01	100.0	H	108.0	-5.8

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

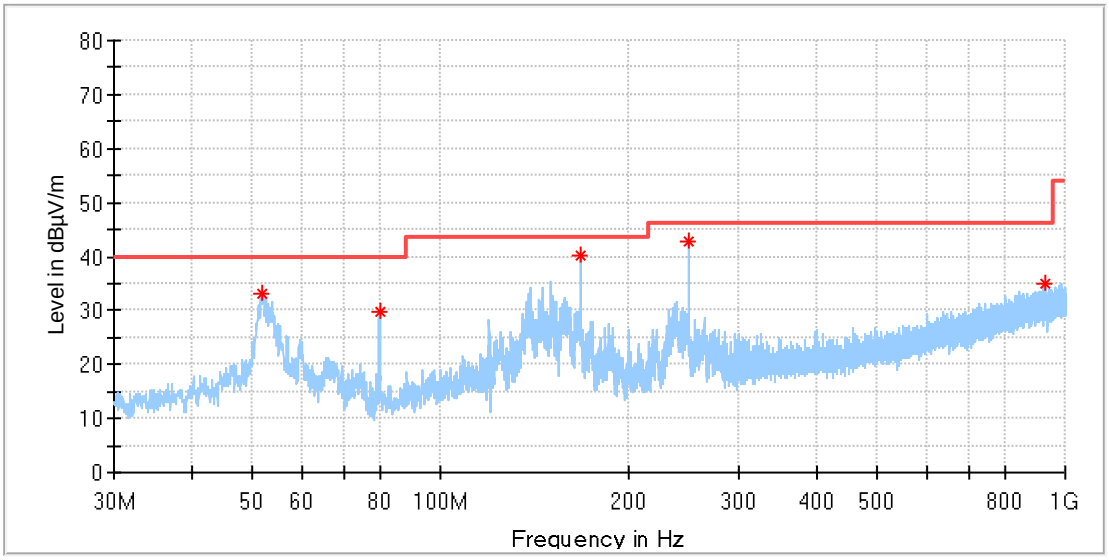
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
52.358500	35.56	40.00	4.44	100.0	V	105.0	-18.4
79.809500	32.08	40.00	7.92	100.0	V	341.0	-23.5
168.031000	28.97	43.50	14.53	100.0	V	105.0	-21.3
291.851500	28.67	46.00	17.33	100.0	V	193.0	-16.5
942.964000	35.59	46.00	10.41	100.0	V	279.0	-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:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11b_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

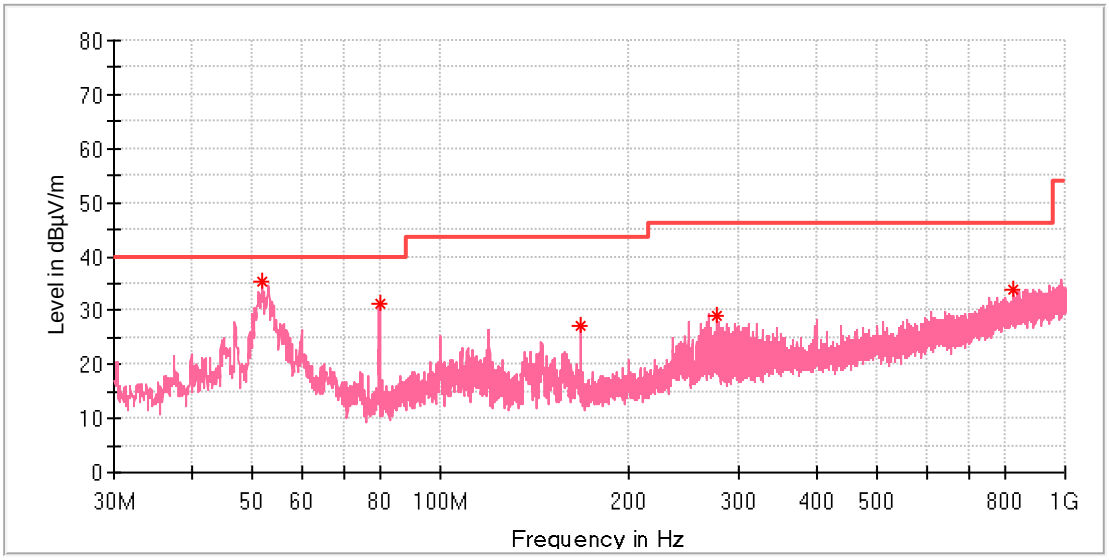
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.922000	33.10	40.00	6.90	100.0	H	186.0	-18.4
79.809500	29.85	40.00	10.15	100.0	H	57.0	-23.5
168.031000	40.08	43.50	3.42	100.0	H	167.0	-21.3
249.996000	42.75	46.00	3.25	100.0	H	57.0	-17.4
928.317000	35.09	46.00	10.91	100.0	H	293.0	-4.7

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
51.728000	35.49	40.00	4.51	100.0	V	99.0	-18.4
79.809500	31.31	40.00	8.69	100.0	V	5.0	-23.5
168.031000	27.15	43.50	16.35	100.0	V	218.0	-21.3
277.156000	29.20	46.00	16.80	100.0	V	149.0	-16.8
826.418500	33.69	46.00	12.31	100.0	V	310.0	-5.9

Final_Result

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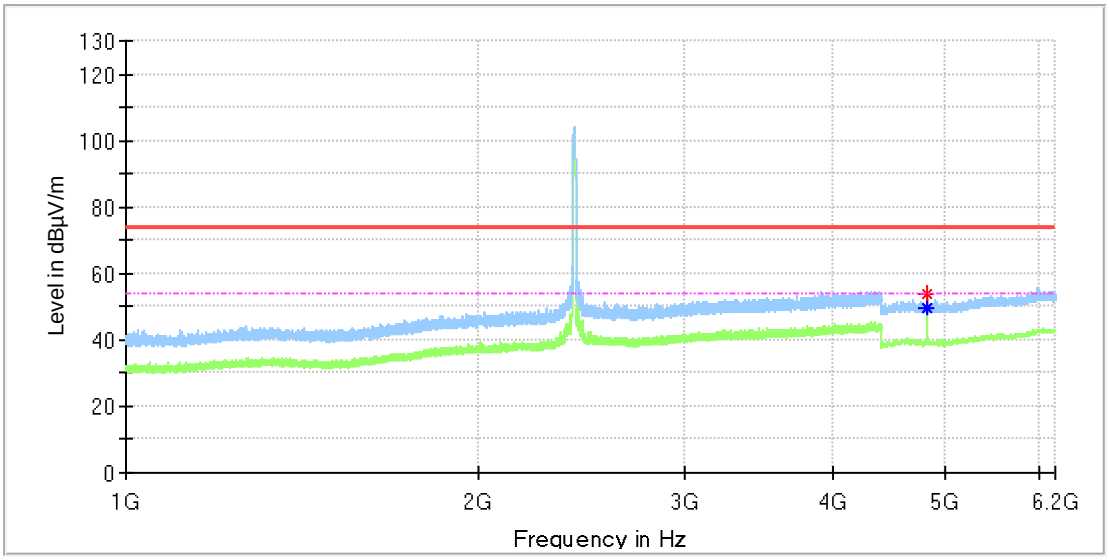
1GHz - 18GHz

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11b_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

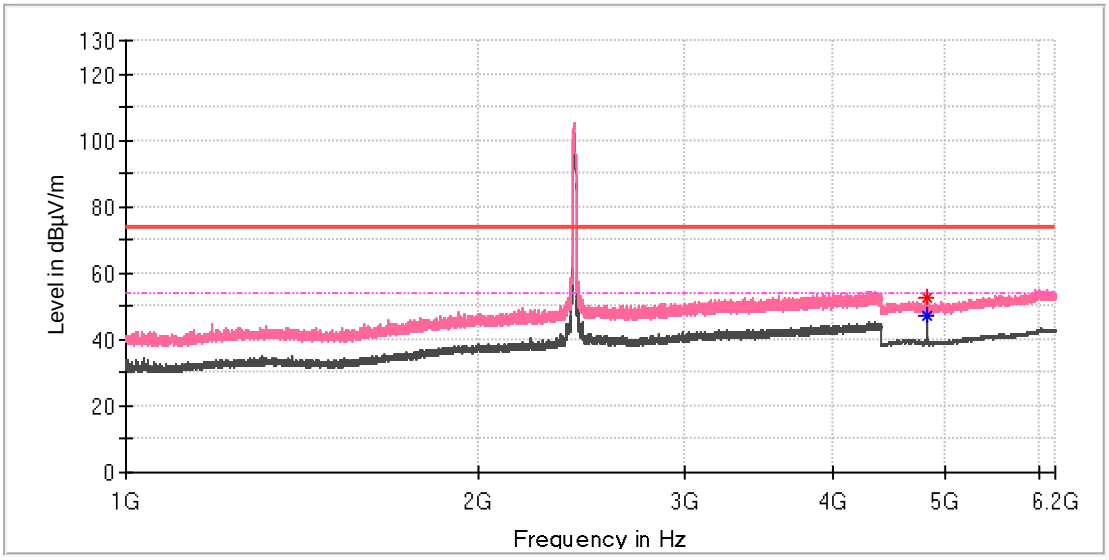
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	---	48.59	54.00	5.41	100.0	H	309.0	11.8
4824.000000	54.01	---	74.00	19.99	100.0	H	309.0	11.8

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

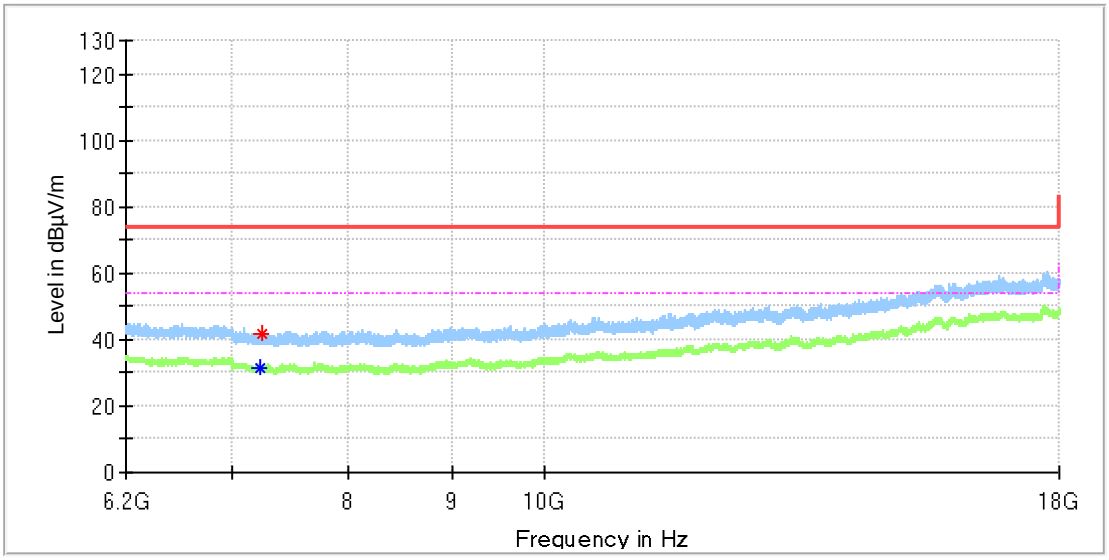
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.500000	52.71	---	74.00	21.29	100.0	V	183.0	11.8
4824.000000	---	47.43	54.00	6.57	100.0	V	176.0	11.8

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

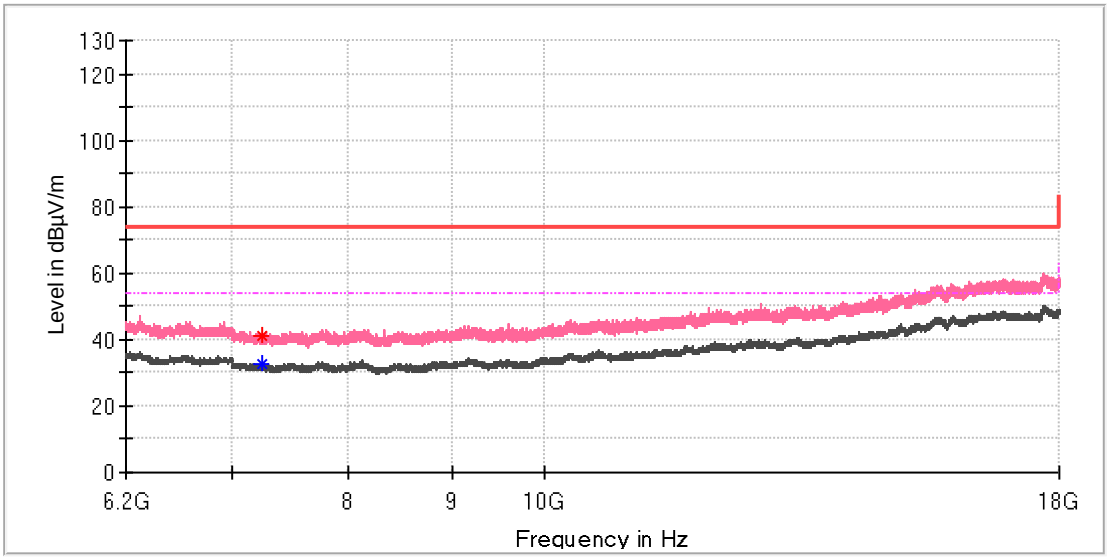
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7234.466667	---	31.70	54.00	22.30	100.0	H	202.0	8.6
7242.825000	41.89	---	74.00	32.11	100.0	H	314.0	8.6

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

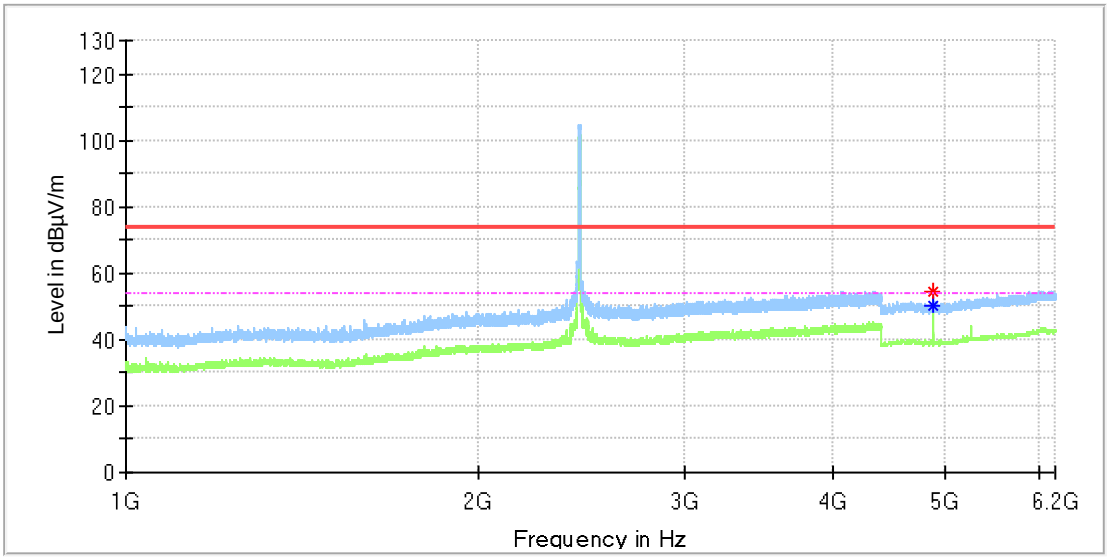
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7239.383333	41.08	---	74.00	32.92	100.0	V	0.0	8.6
7239.383333	---	32.45	54.00	21.55	100.0	V	0.0	8.6

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_Mid channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

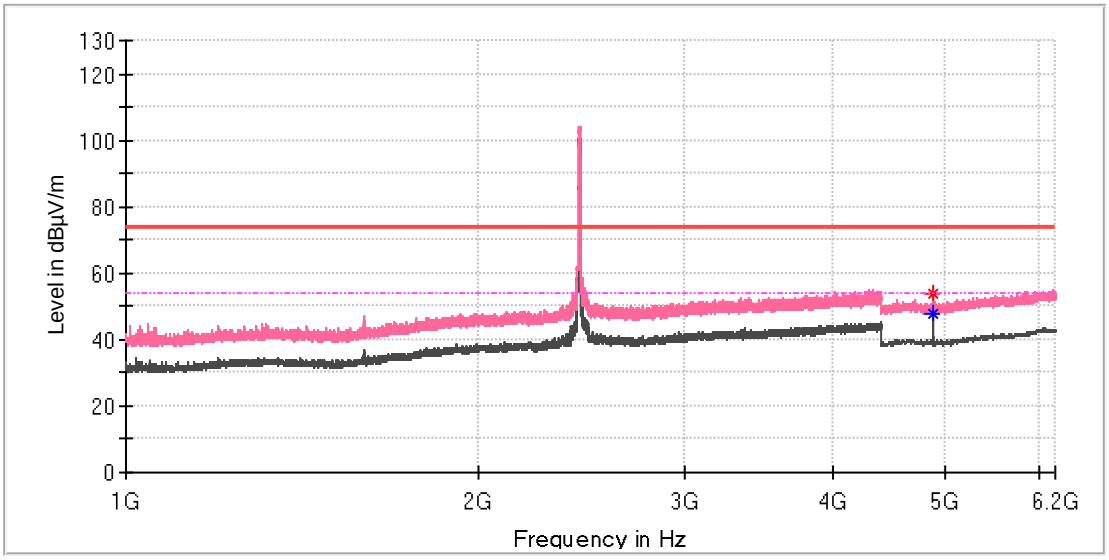
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	54.56	---	74.00	19.44	100.0	H	159.0	11.8
4874.000000	---	48.92	54.00	5.08	100.0	H	159.0	11.8

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_Mid channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

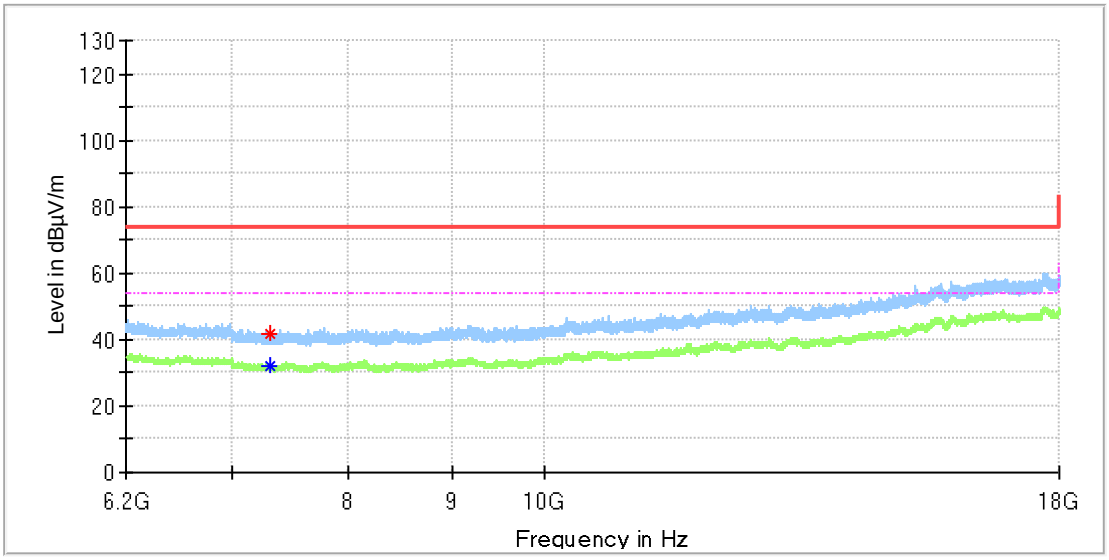
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	53.91	---	74.00	20.09	100.0	V	92.0	11.8
4874.000000	---	47.95	54.00	6.05	100.0	V	92.0	11.8

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_Mid channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

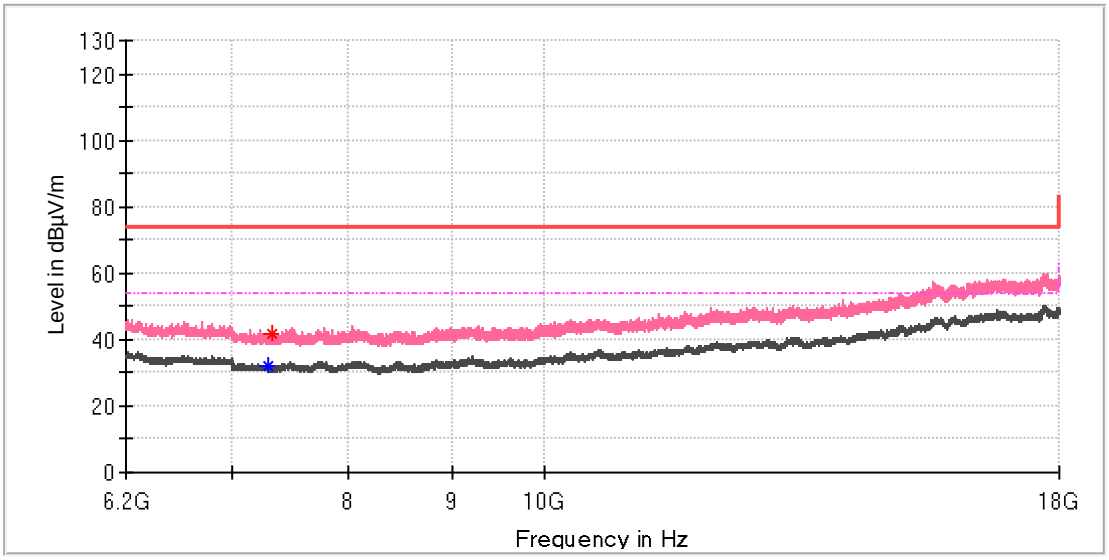
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7311.166667	---	32.17	54.00	21.83	100.0	H	126.0	8.2
7315.591667	41.75	---	74.00	32.25	100.0	H	112.0	8.2

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_Mid channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

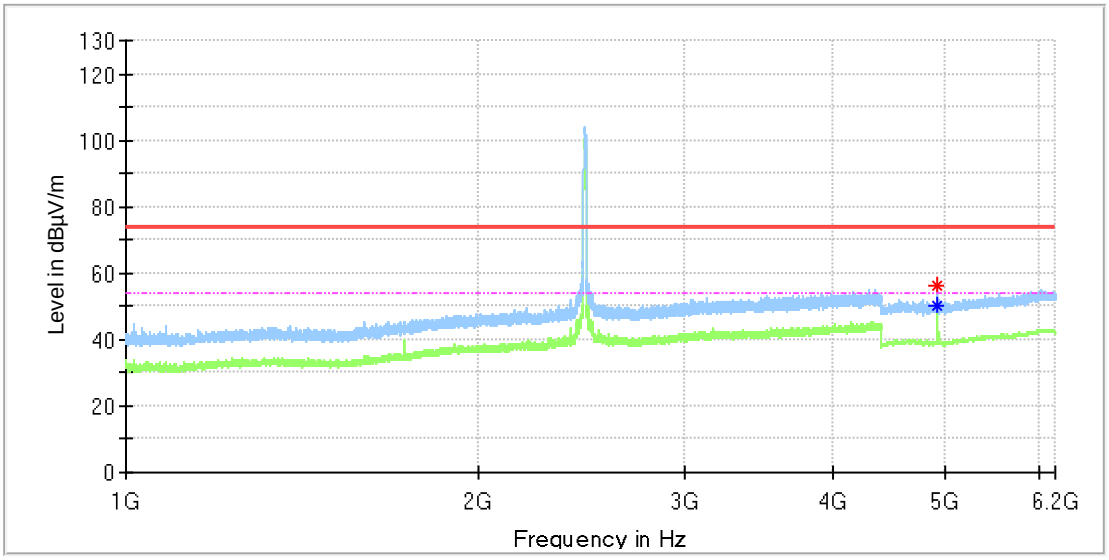
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7301.333333	---	31.98	54.00	22.02	100.0	V	195.0	8.3
7318.541667	41.91	---	74.00	32.09	100.0	V	321.0	8.2

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

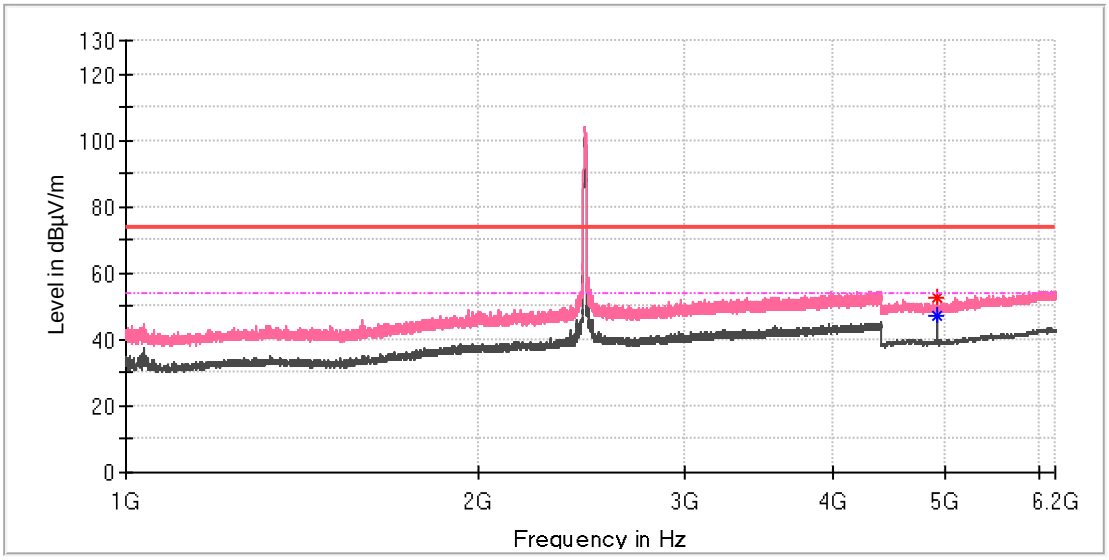
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.500000	---	48.94	54.00	5.06	100.0	H	172.0	11.8
4924.000000	56.17	---	74.00	17.83	100.0	H	150.0	11.8

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

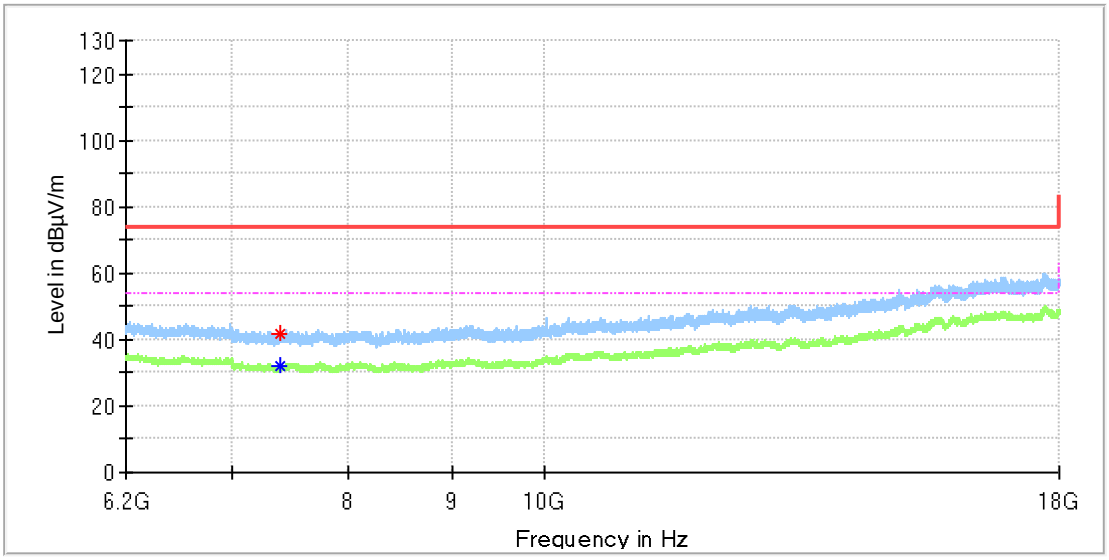
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	52.72	---	74.00	21.28	100.0	V	359.0	11.8
4924.000000	---	47.12	54.00	6.88	100.0	V	359.0	11.8

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

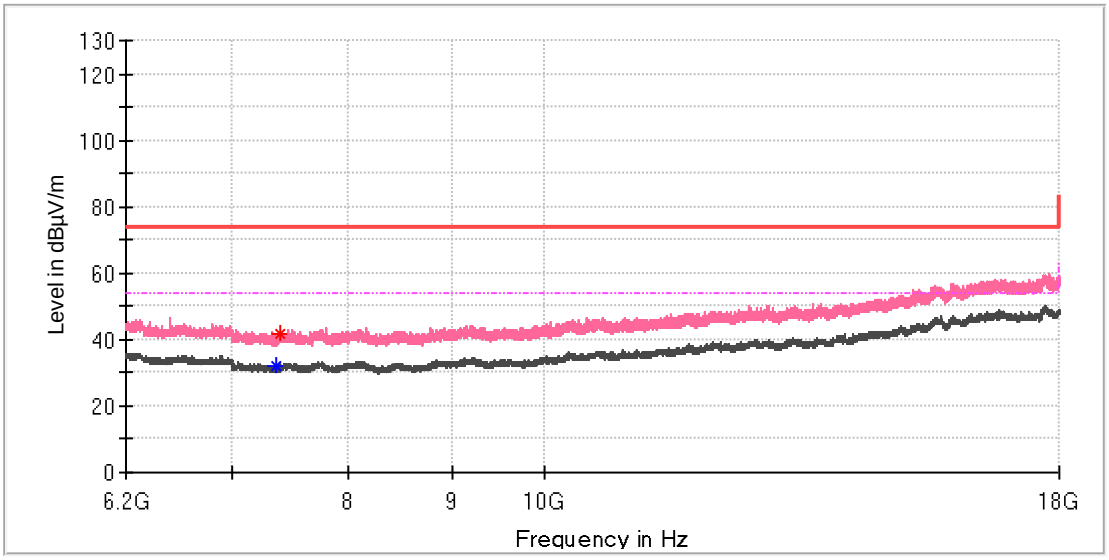
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7394.750000	---	32.11	54.00	21.89	100.0	H	236.0	8.3
7397.700000	41.64	---	74.00	32.36	100.0	H	166.0	8.3

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
7366.233333	---	32.24	54.00	21.76	100.0	V	225.0	8.2
7392.291667	41.74	---	74.00	32.26	100.0	V	154.0	8.3

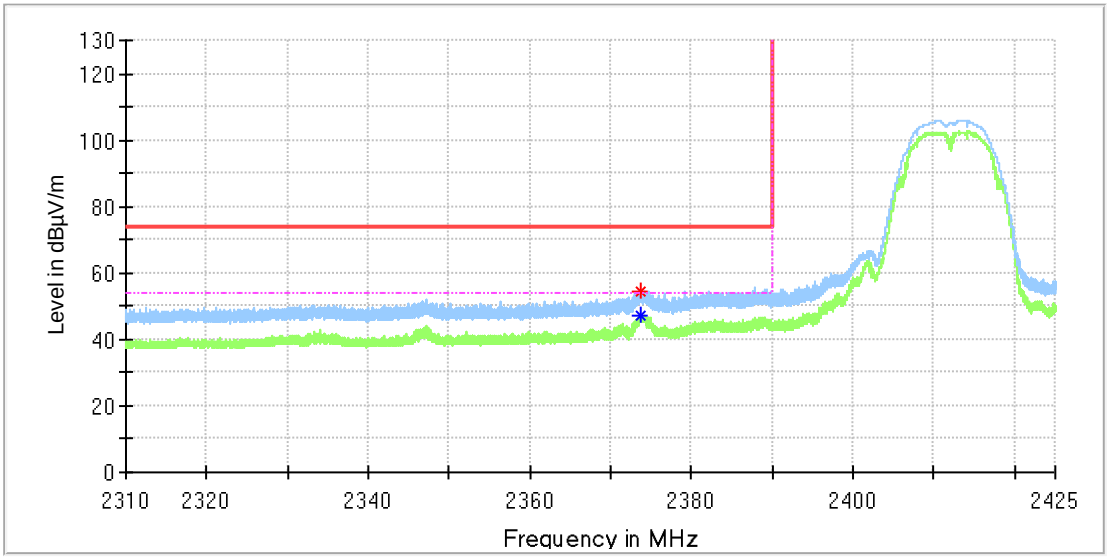
Final_Result

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

Appendix B.6: Test Results of Radiated Emissions in Restricted Bands
Wi-Fi 802.11 b mode, 1 Mbps

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11b_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

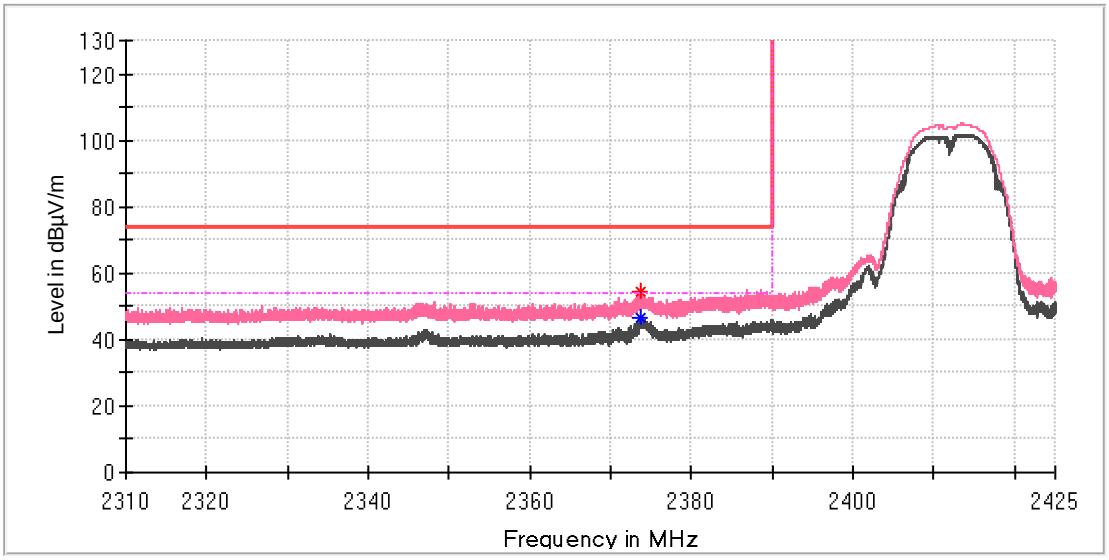
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2373.641000	54.55	---	74.00	19.45	100.0	H	291.0	6.9
2373.744500	---	47.29	54.00	6.71	100.0	H	291.0	6.9

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

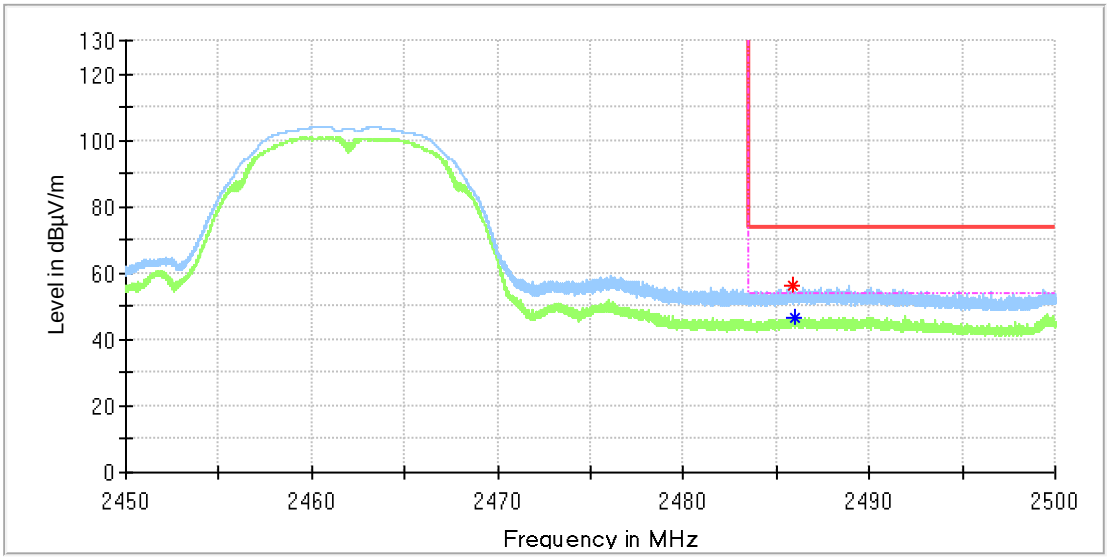
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2373.710000	54.14	---	74.00	19.86	100.0	V	297.0	6.9
2373.790500	---	46.36	54.00	7.64	100.0	V	297.0	6.9

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

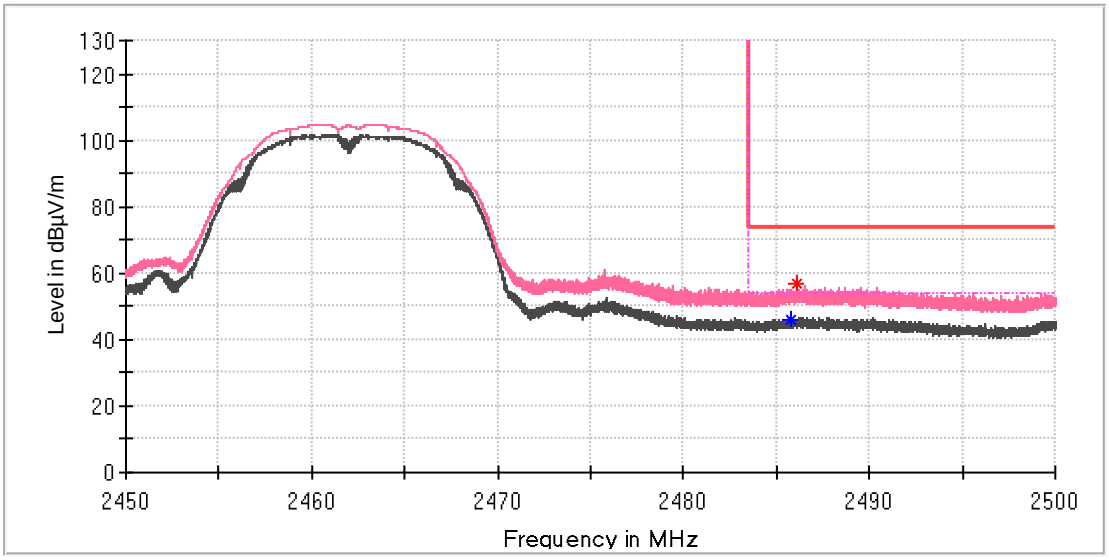
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.857500	56.50	---	74.00	17.50	100.0	H	301.0	7.4
2486.037500	---	46.59	54.00	7.41	100.0	H	301.0	7.4

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:	Q400RR
Test Mode:	WIFI 2.4G_11b_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
2485.810000	---	45.94	54.00	8.06	100.0	V	8.0	7.4
2486.087500	56.78	---	74.00	17.22	100.0	V	0.0	7.4

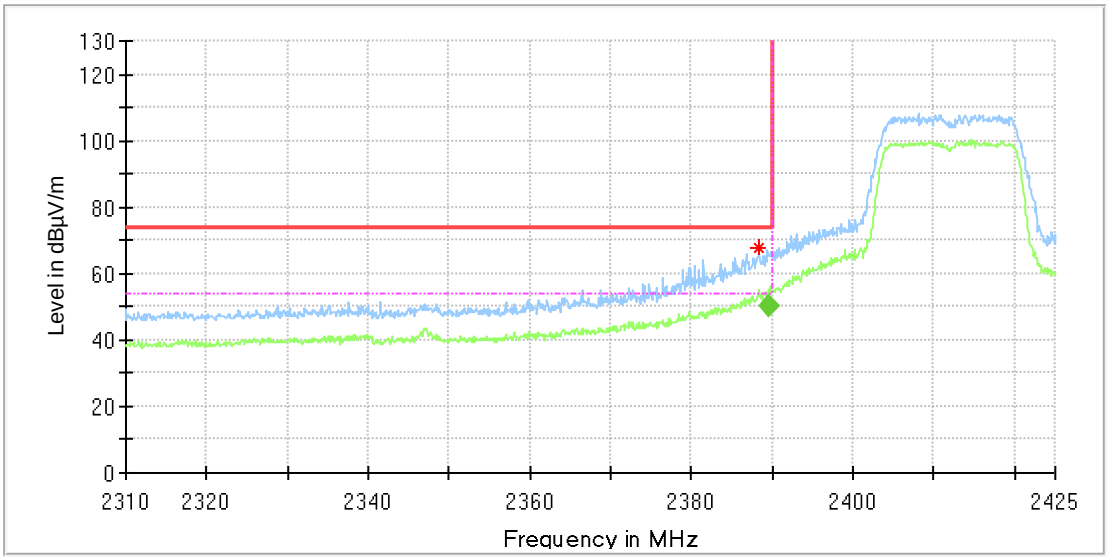
Final_Result

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

Wi-Fi 802.11 g mode, 6 Mbps

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11g_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

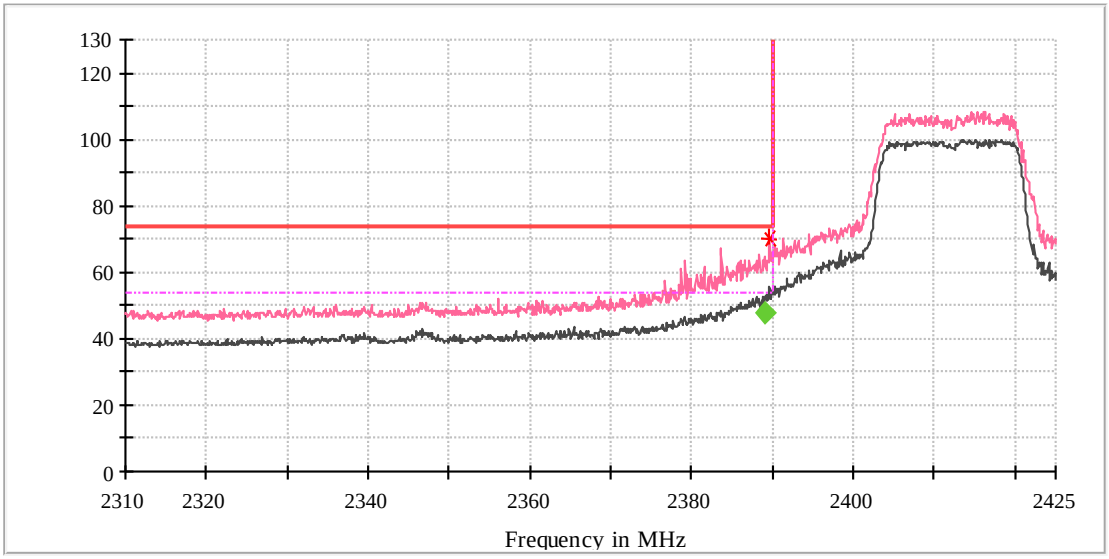
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.300000	67.86	---	74.00	6.14	100.0	H	354.0	7.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.497300	48.93	54.00	5.07	100.0	H	74.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11g_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

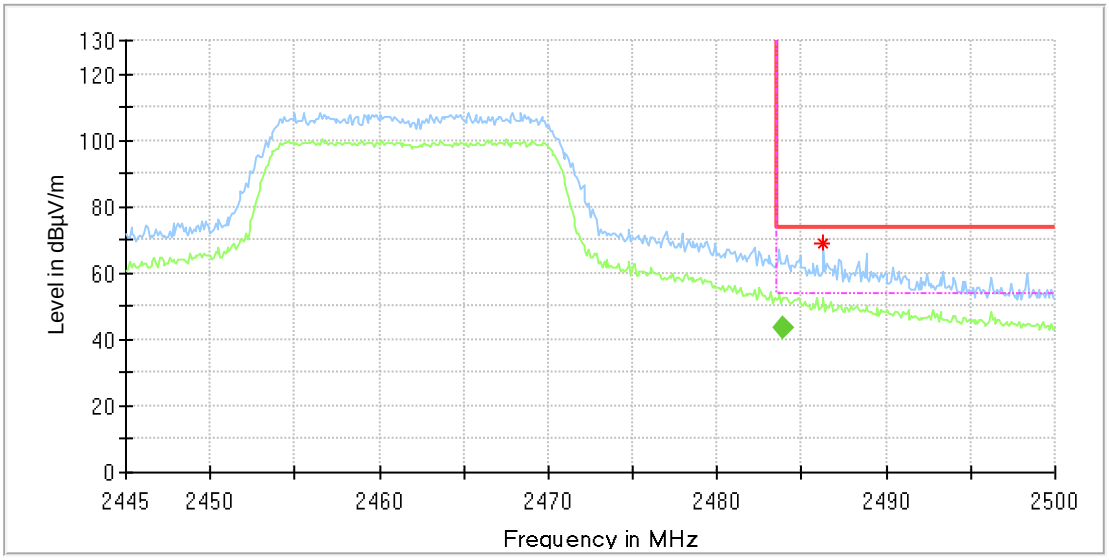
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.600000	68.46	---	74.00	5.54	100.0	V	304.0	7.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.157900	47.50	54.00	6.50	100.0	V	351.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11g_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

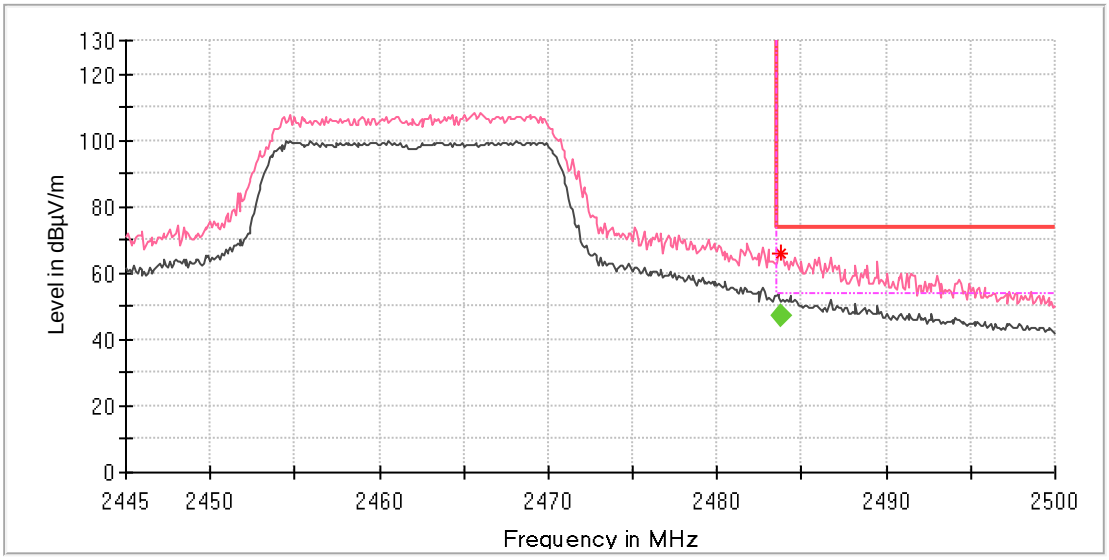
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.300000	68.96	---	74.00	5.04	100.0	H	291.0	7.4

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.912000	43.28	54.00	10.72	105.0	H	340.0	7.4

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11g_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
2483.800000	65.82	---	74.00	8.18	100.0	V	17.0	7.4

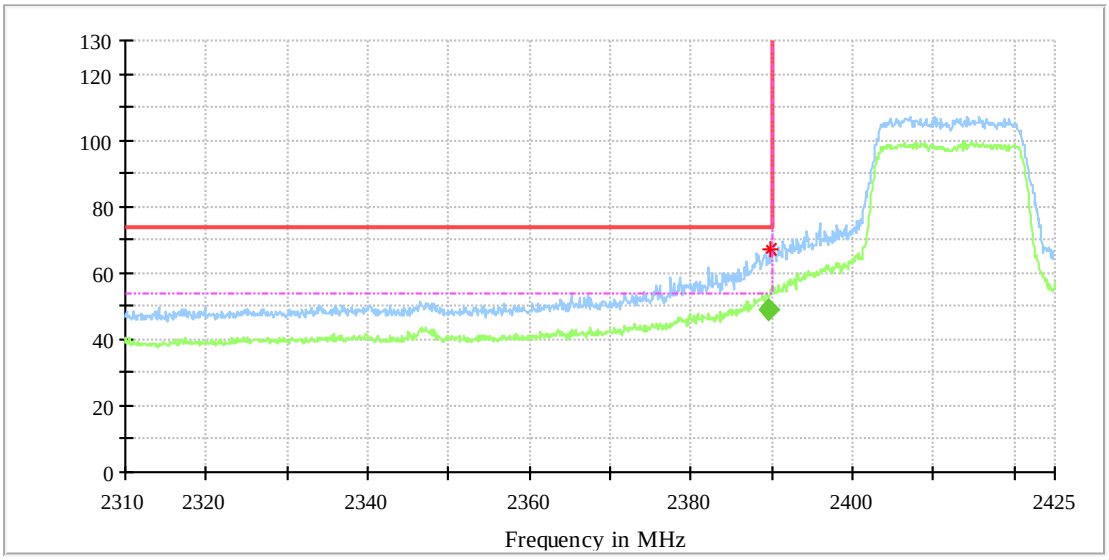
Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.815800	47.39	54.00	6.61	105.0	V	-2.0	7.4

Wi-Fi 802.11 n(HT20) mode, MCS0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11n_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

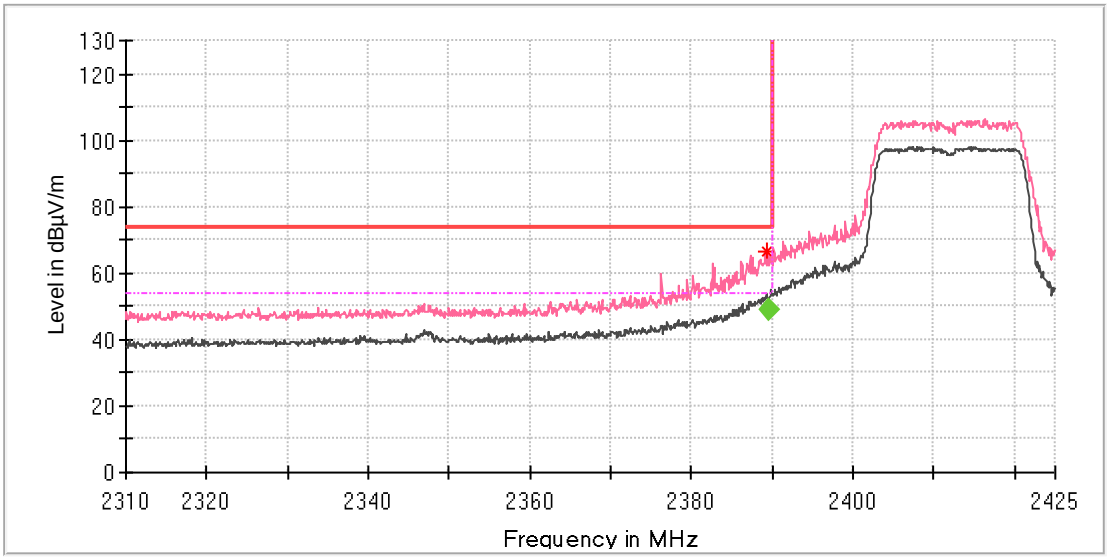
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.700000	67.38	---	74.00	6.62	100.0	H	286.0	7.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.639500	48.69	54.00	5.31	100.0	H	285.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11n_Low channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

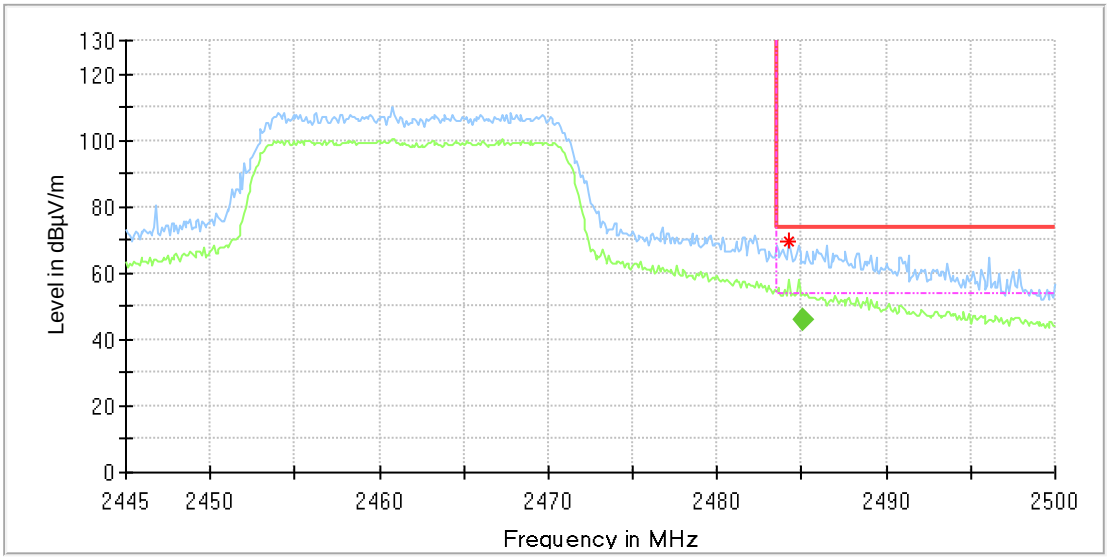
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.400000	66.71	---	74.00	7.29	100.0	V	0.0	7.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.520150	48.84	54.00	5.26	100.0	V	-2.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11n_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

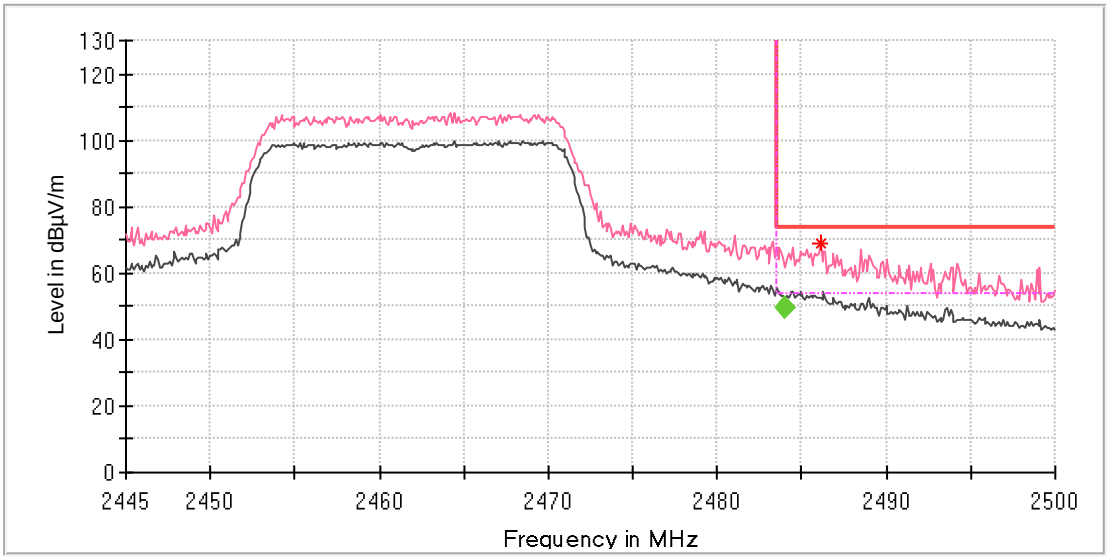
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.200000	68.99	---	74.00	5.01	100.0	H	342.0	7.4

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.034350	46.04	54.00	7.96	105.0	H	341.0	7.4

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q400RR
Test Mode:	WIFI 2.4G_11n_High channel
Order No/Sample No:	168345845/A003172495-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
2486.100000	68.61	---	74.00	5.39	100.0	V	0.0	7.4

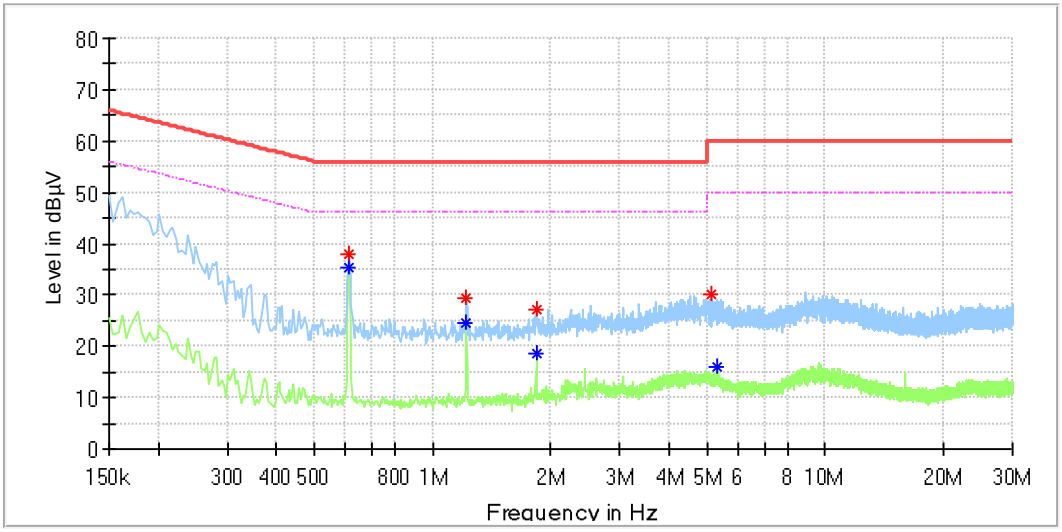
Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.053000	48.93	54.00	5.07	100.0	V	-2.0	7.4

Appendix B.7: Test Results of Conducted Emission

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Order No:	168345845
Model:	Q400RR
Test mode:	Charging and WIFI link
Test Voltage:	AC 120V/60Hz
Test By:	Kei Zhang
Review By:	Terry Yin
Remark:	SR2



Critical_Freqs

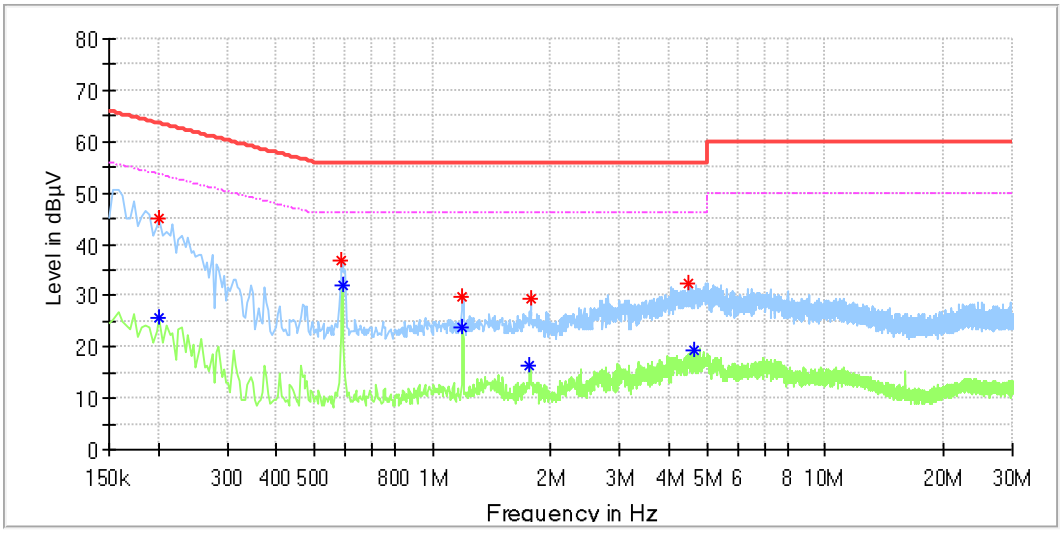
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.610000	---	35.40	46.00	10.60	L1	10.0
0.614000	37.93	---	56.00	18.07	L1	10.0
1.218000	---	24.39	46.00	21.61	L1	10.1
1.218000	29.46	---	56.00	26.54	L1	10.1
1.834000	27.24	---	56.00	28.76	L1	10.1
1.838000	---	18.57	46.00	27.43	L1	10.1
5.122000	30.05	---	60.00	29.95	L1	10.3
5.322000	---	16.03	50.00	33.97	L1	10.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
---	---	---	---	---	---	---		---

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Order No:	168345845
Model:	Q400RR
Test mode:	Charging and WIFI link
Test Voltage:	AC 120V/60Hz
Test By:	Kei Zhang
Review By:	Terry Yin
Remark:	SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.202000	---	25.64	53.53	27.88	N	9.8
0.202000	45.06	---	63.53	18.46	N	9.8
0.586000	37.02	---	56.00	18.98	N	9.8
0.590000	---	32.02	46.00	13.98	N	9.8
1.194000	---	23.91	46.00	22.09	N	9.8
1.194000	29.64	---	56.00	26.36	N	9.8
1.770000	---	16.19	46.00	29.81	N	9.8
1.778000	29.55	---	56.00	26.45	N	9.8
4.486000	32.55	---	56.00	23.45	N	9.9
4.610000	---	19.42	46.00	26.58	N	9.9

Final_Result

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
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