

## Appendix B: Test Results

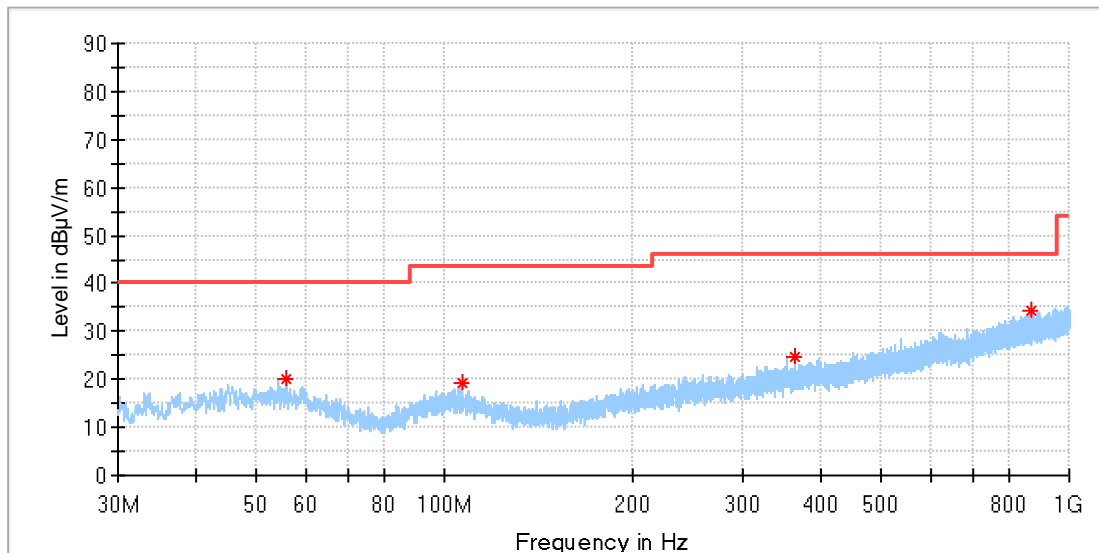
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Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

## Appendix B.1: Test Results of Radiated Spurious Emissions 30MHz - 1GHz (Worst case)

### EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	roborock S7
Test Mode:	WIFI 2.4G_11b_Low channel
Order No/Sample No:	168367767/A003238794-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

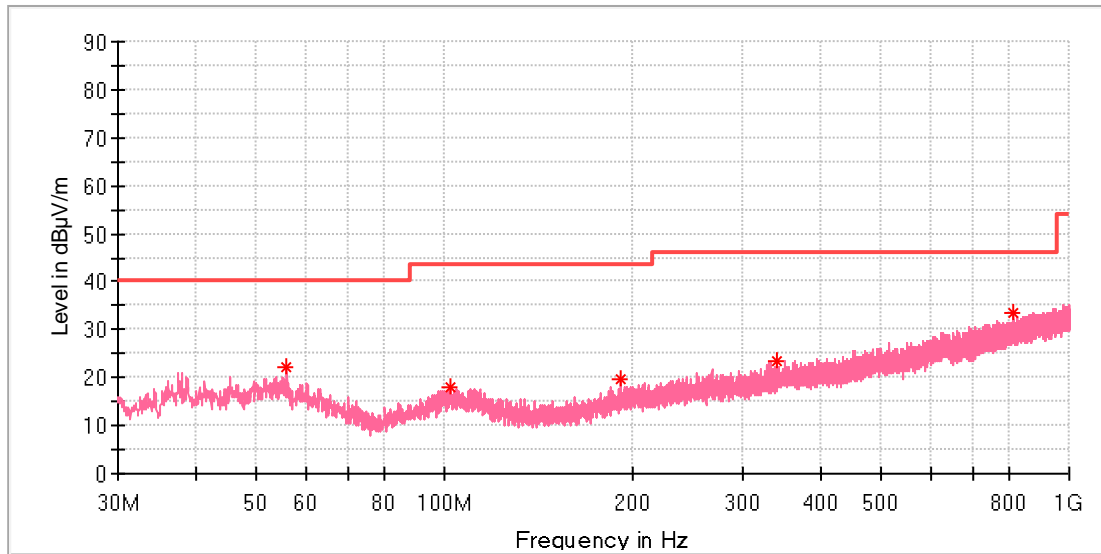
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.899000	20.11	40.00	19.89	100.0	H	145.0	-18.5
106.436000	19.05	43.50	24.45	100.0	H	28.0	-18.8
364.116500	24.83	46.00	21.17	100.0	H	334.0	-14.6
869.583500	34.38	46.00	11.62	100.0	H	275.0	-5.2

### 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: Robotic Vacuum Cleaner  
 Model: roborock S7  
 Test Mode: WIFI 2.4G\_11b\_Low channel  
 Order No/Sample No: 168367767/A003238794-004  
 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)
55.899000	22.15	40.00	17.85	100.0	V	235.0	-18.5
102.313500	18.21	43.50	25.29	100.0	V	270.0	-18.9
190.874500	19.58	43.50	23.92	100.0	V	359.0	-19.4
340.254500	23.38	46.00	22.62	100.0	V	20.0	-15.0
813.420500	33.44	46.00	12.56	100.0	V	28.0	-6.1

### Final Result

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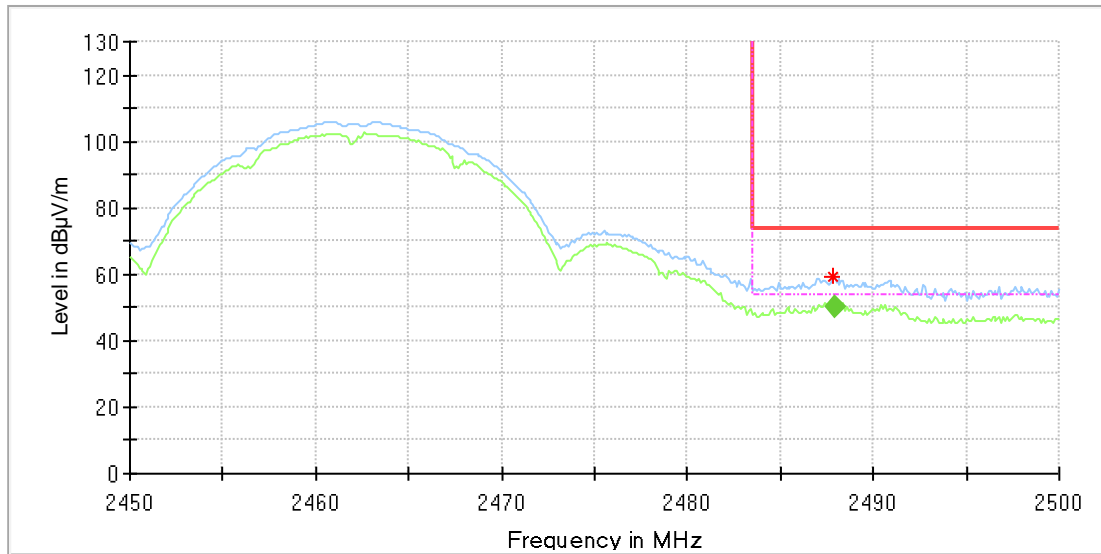






### EUT Information

EUT Name: Robotic Vacuum Cleaner  
 Model: roborock S7  
 Test Mode: WIFI 2.4G\_11b\_High channel  
 Order No/Sample No: 168367767/A003238794-004  
 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)
2487.800000	59.50	—	74.00	14.50	100.0	H	55.0	7.4

### Final\_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.940100	50.16	54.00	3.84	100.0	H	45.0	7.4

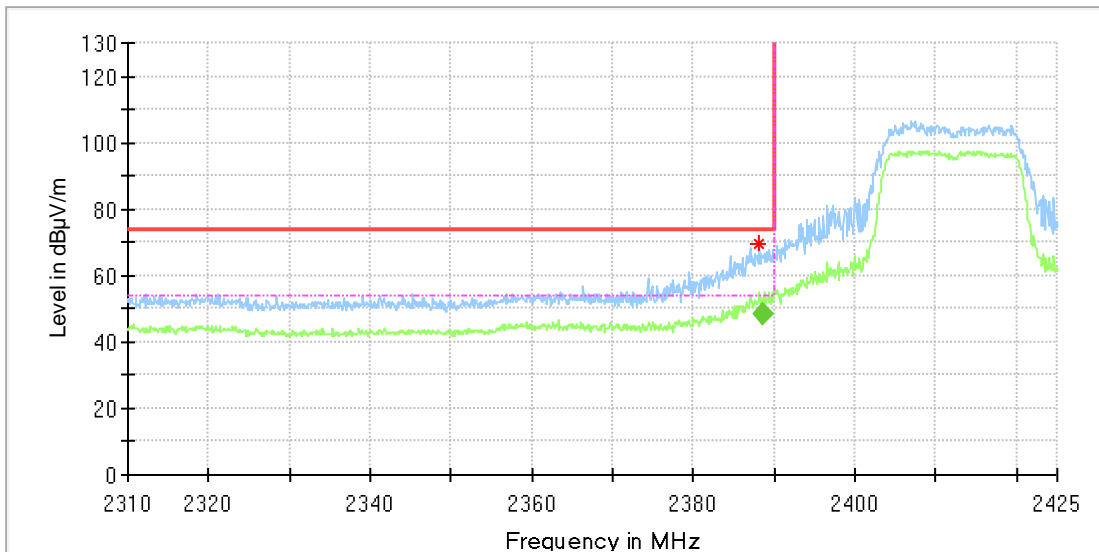




**Wi-Fi 802.11 g mode, 6 Mbps**

**EUT Information**

EUT Name:	Robotic Vacuum Cleaner
Model:	roborock S7
Test Mode:	WIFI 2.4G_11g_Low channel
Order No/Sample No:	168367767/A003238794-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



**Critical Freqs**

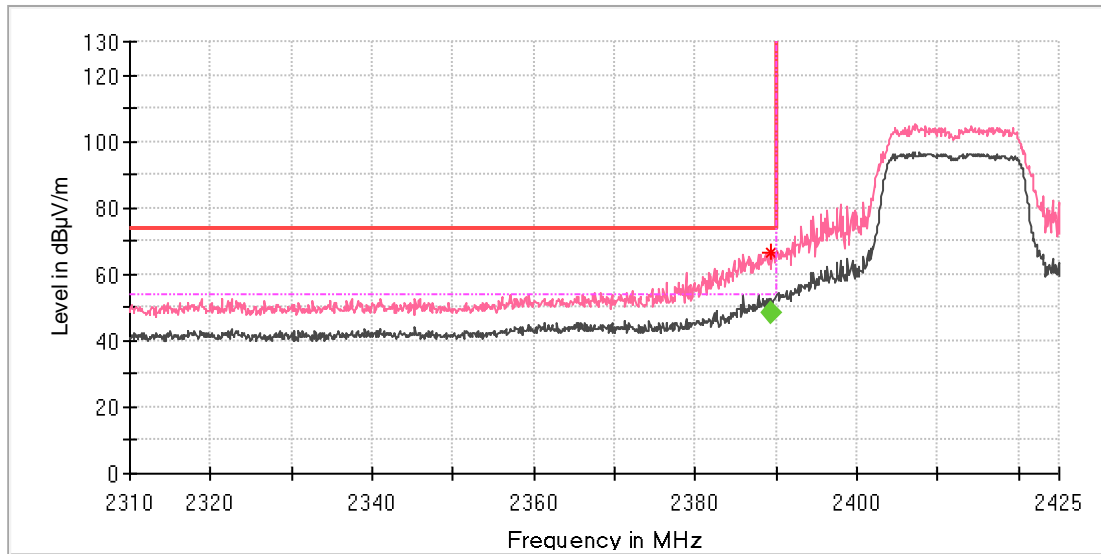
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.100000	69.42	--	74.00	4.58	100.0	H	196.0	7.0

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.445500	48.29	54.00	5.71	100.0	H	195.0	7.0

### EUT Information

EUT Name: Robotic Vacuum Cleaner  
 Model: roborock S7  
 Test Mode: WIFI 2.4G\_11g\_Low channel  
 Order No/Sample No: 168367767/A003238794-004  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

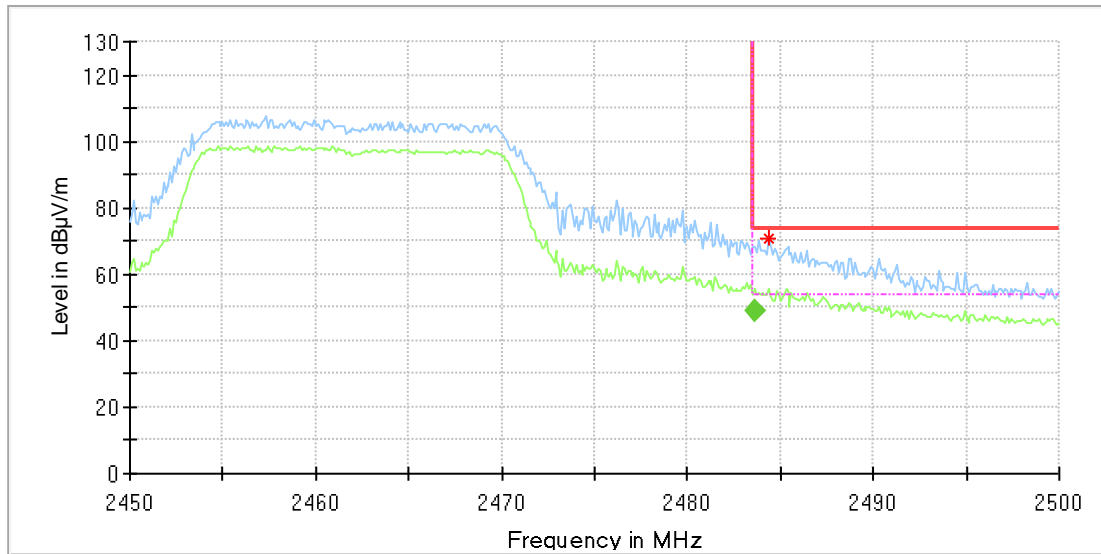
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.200000	66.79	—	74.00	7.21	100.0	V	64.0	7.0

### Final\_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.303450	48.55	54.00	5.45	105.0	V	62.0	7.0

### EUT Information

EUT Name: Robotic Vacuum Cleaner  
 Model: roborock S7  
 Test Mode: WIFI 2.4G\_11g\_High channel  
 Order No/Sample No: 168367767/A003238794-004  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

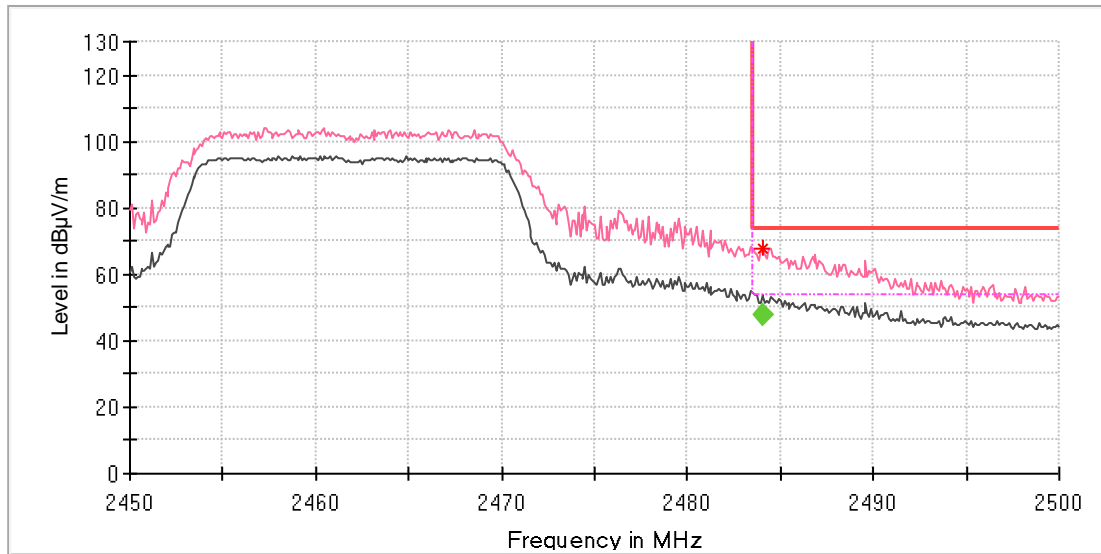
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.400000	70.95	—	74.00	3.05	100.0	H	70.0	7.4

### Final\_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.641600	49.20	54.00	4.80	100.0	H	343.0	7.4

### EUT Information

EUT Name: Robotic Vacuum Cleaner  
 Model: roborock S7  
 Test Mode: WIFI 2.4G\_11g\_High channel  
 Order No/Sample No: 168367767/A003238794-004  
 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)
2484.100000	67.96	—	74.00	6.04	100.0	V	354.0	7.4

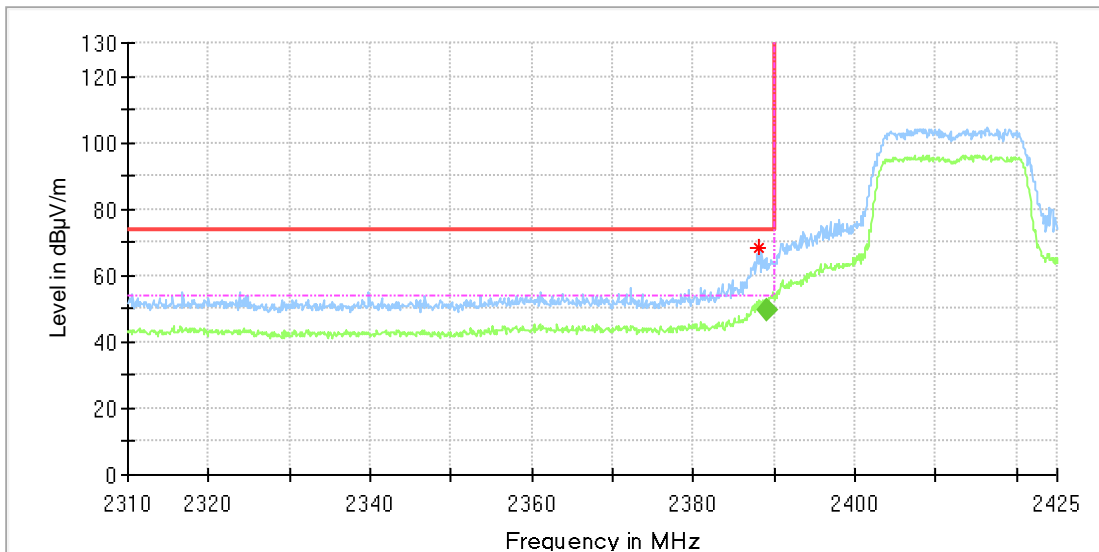
### Final\_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.999250	47.65	54.00	6.35	105.0	V	84.0	7.4

Wi-Fi 802.11 n(HT20) mode, MCS0

**EUT Information**

EUT Name: Robotic Vacuum Cleaner  
 Model: roborock S7  
 Test Mode: WIFI 2.4G\_11n20\_Lowchannel  
 Order No/Sample No: 168367767/A003238794-004  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



**Critical Freqs**

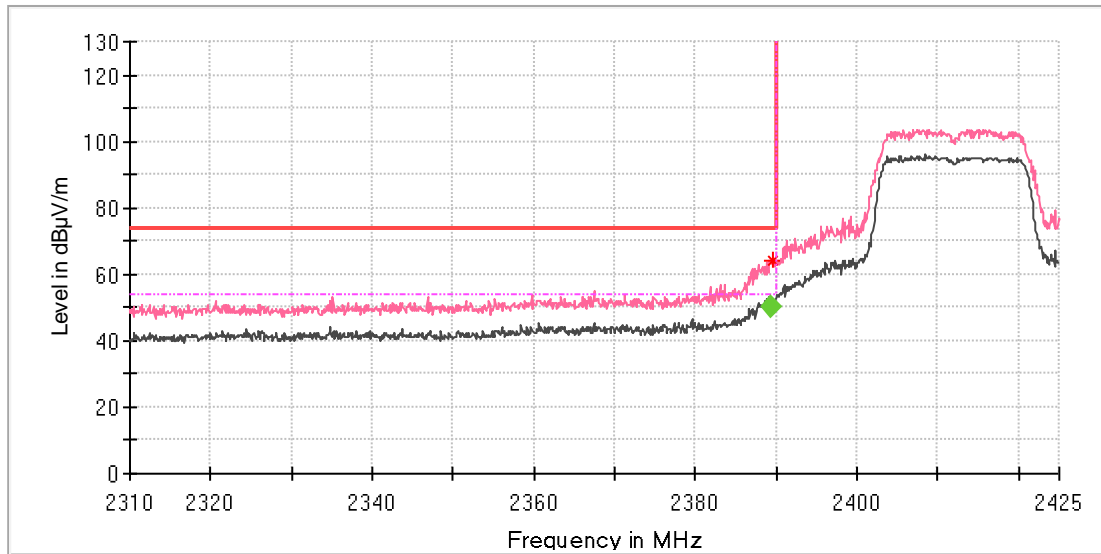
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.100000	68.62	--	74.00	5.38	100.0	H	199.0	7.0

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.083200	49.34	54.00	4.66	100.0	H	331.0	7.0

### EUT Information

EUT Name: Robotic Vacuum Cleaner  
 Model: roborock S7  
 Test Mode: WIFI 2.4G\_11n20\_Lowchannel  
 Order No/Sample No: 168367767/A003238794-004  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

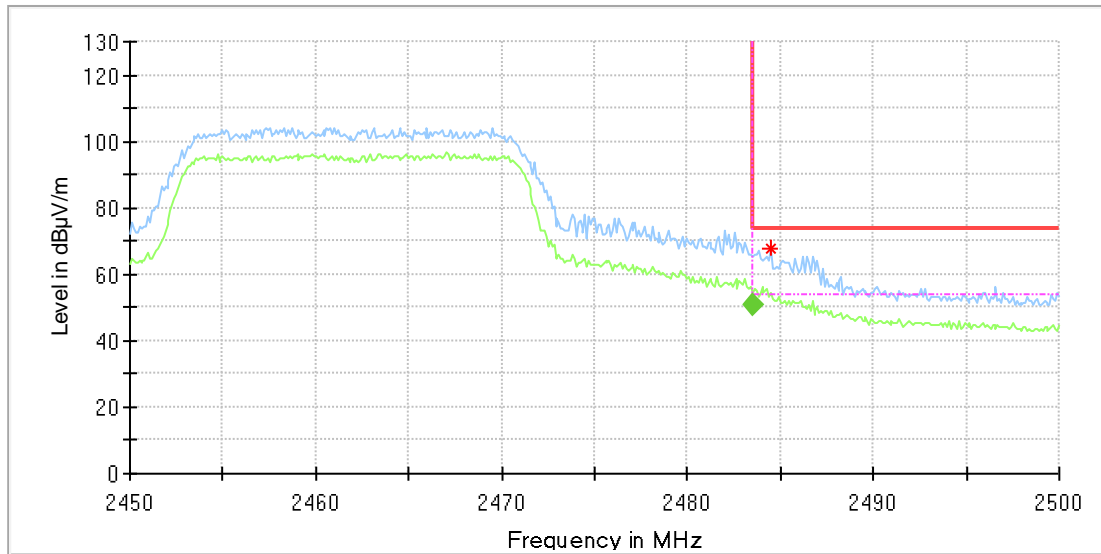
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.600000	64.07	—	74.00	9.93	100.0	V	111.0	7.0

### Final\_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.411350	50.24	54.00	3.76	105.0	V	62.0	7.0

### EUT Information

EUT Name: Robotic Vacuum Cleaner  
 Model: roborock S7  
 Test Mode: WIFI 2.4G\_11n20\_High channel  
 Order No/Sample No: 168367767/A003238794-004  
 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)
2484.500000	67.48	—	74.00	6.52	100.0	H	138.0	7.4

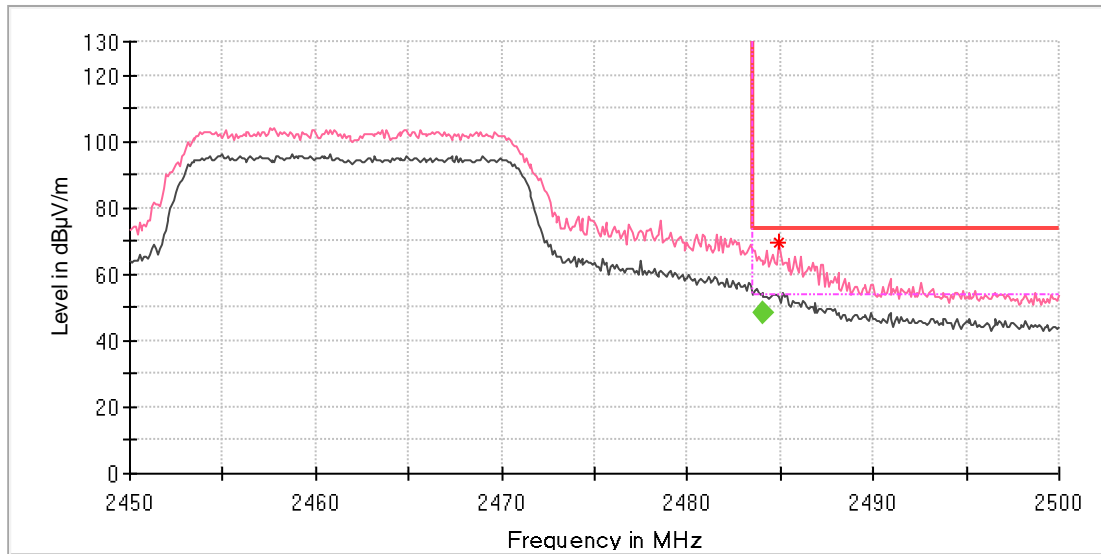
### Final\_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.514850	50.92	54.00	3.08	100.0	H	281.0	7.4



### EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	roborock S7
Test Mode:	WIFI 2.4G_11n20_High channel
Order No/Sample No:	168367767/A003238794-004
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)
2484.900000	69.44	—	74.00	4.56	100.0	V	157.0	7.4

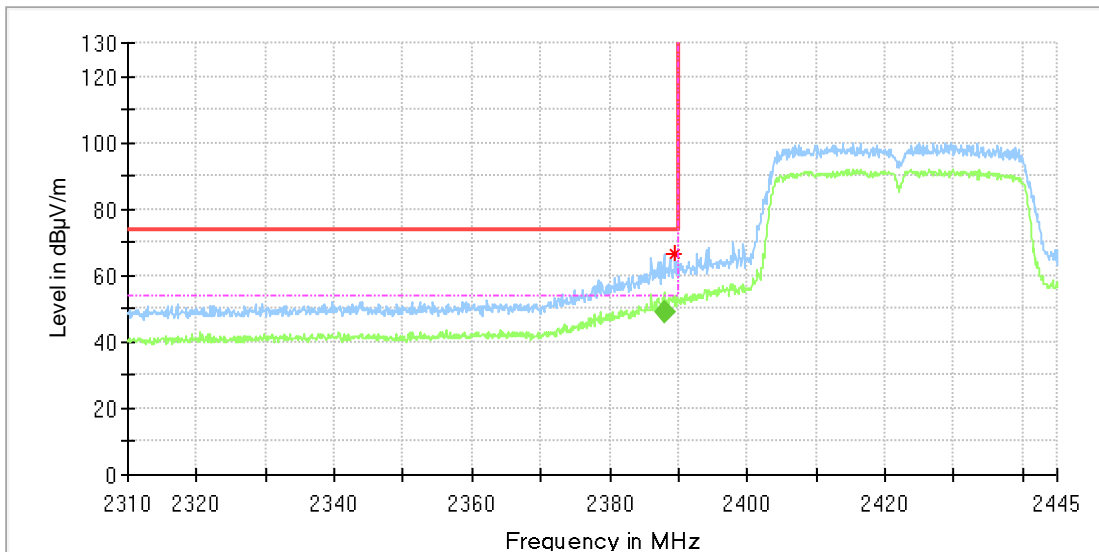
### Final\_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.070850	48.41	54.00	5.59	105.0	V	86.0	7.4

Wi-Fi 802.11 n(HT40) mode, MCS0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	roborock S7
Test Mode:	WIFI 2.4G_11n40_Lowchannel
Order No/Sample No:	168367767/A003238794-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

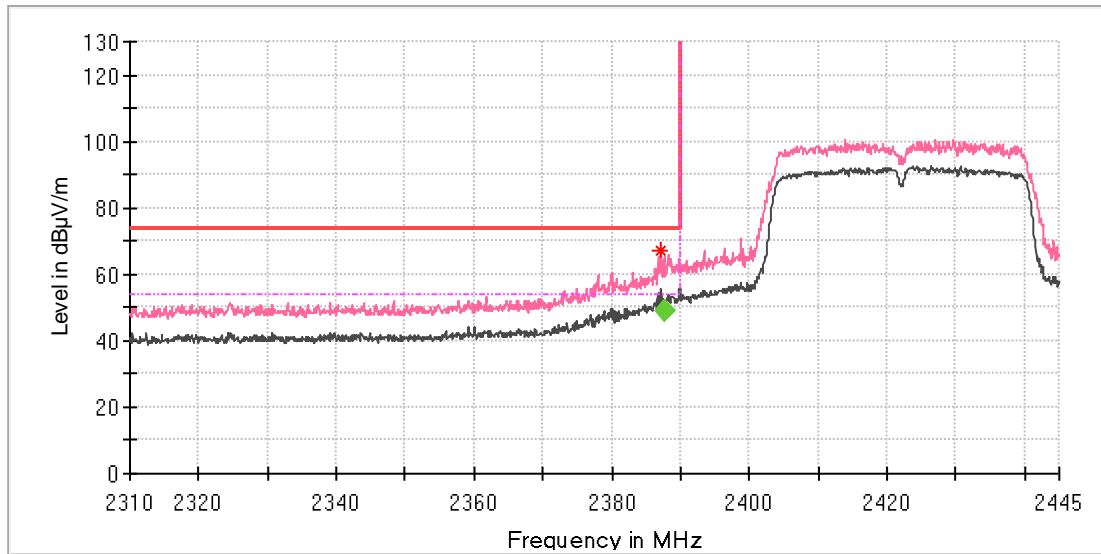
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.400000	66.66	--	74.00	7.34	100.0	H	287.0	7.0

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.051700	48.69	54.00	5.31	100.0	H	292.0	7.0

### EUT Information

EUT Name: Robotic Vacuum Cleaner  
 Model: roborock S7  
 Test Mode: WIFI 2.4G\_11n40\_Lowchannel  
 Order No/Sample No: 168367767/A003238794-004  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

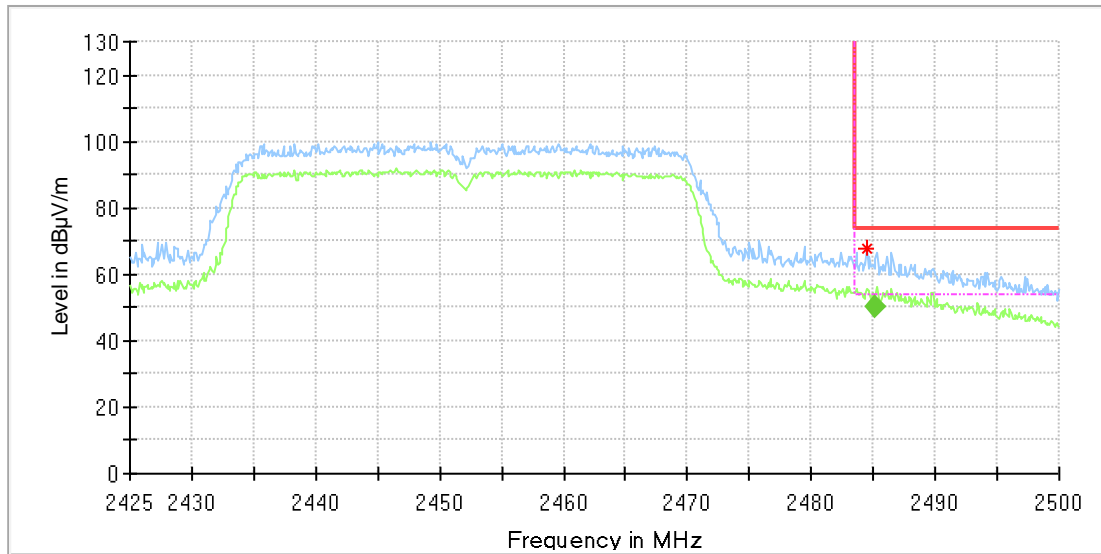
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.200000	67.25	—	74.00	6.75	100.0	V	159.0	7.0

### Final\_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.665050	49.23	54.00	4.77	105.0	V	154.0	7.0

### EUT Information

EUT Name: Robotic Vacuum Cleaner  
 Model: roborock S7  
 Test Mode: WIFI 2.4G\_11n40\_High channel  
 Order No/Sample No: 168367767/A003238794-004  
 Test Voltage: Battery  
 Remark: Temp 22 Humi:55%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

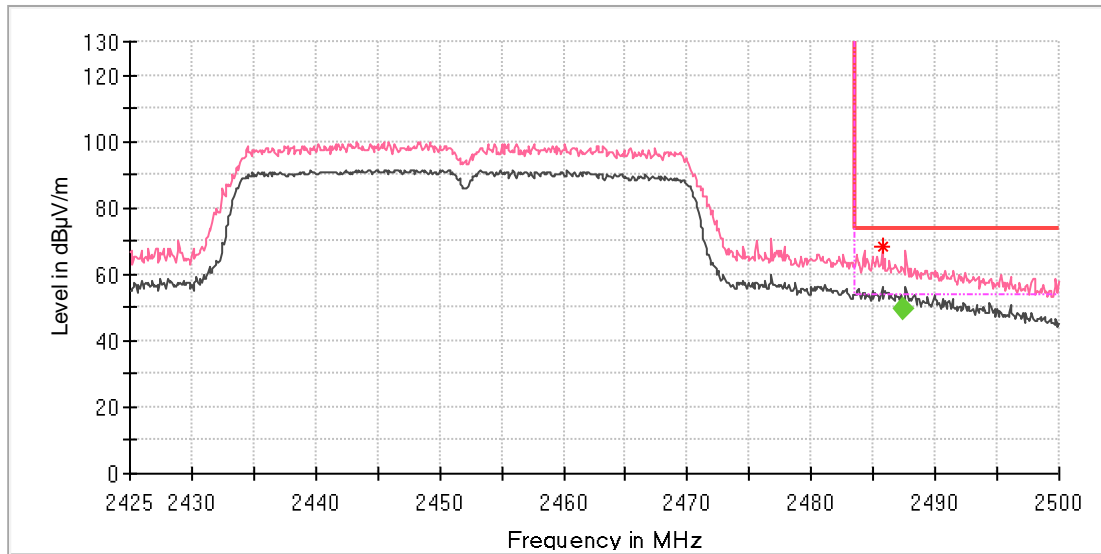
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.500000	67.56	—	74.00	6.44	100.0	H	154.0	7.4

### Final\_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.068550	49.96	54.00	4.04	105.0	H	131.0	7.4

### EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	roborock S7
Test Mode:	WIFI 2.4G_11n40_High channel
Order No/Sample No:	168367767/A003238794-004
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)
2485.700000	68.04	—	74.00	5.96	100.0	V	170.0	7.4

### Final\_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.339500	49.79	54.00	4.21	100.0	V	178.0	7.4



