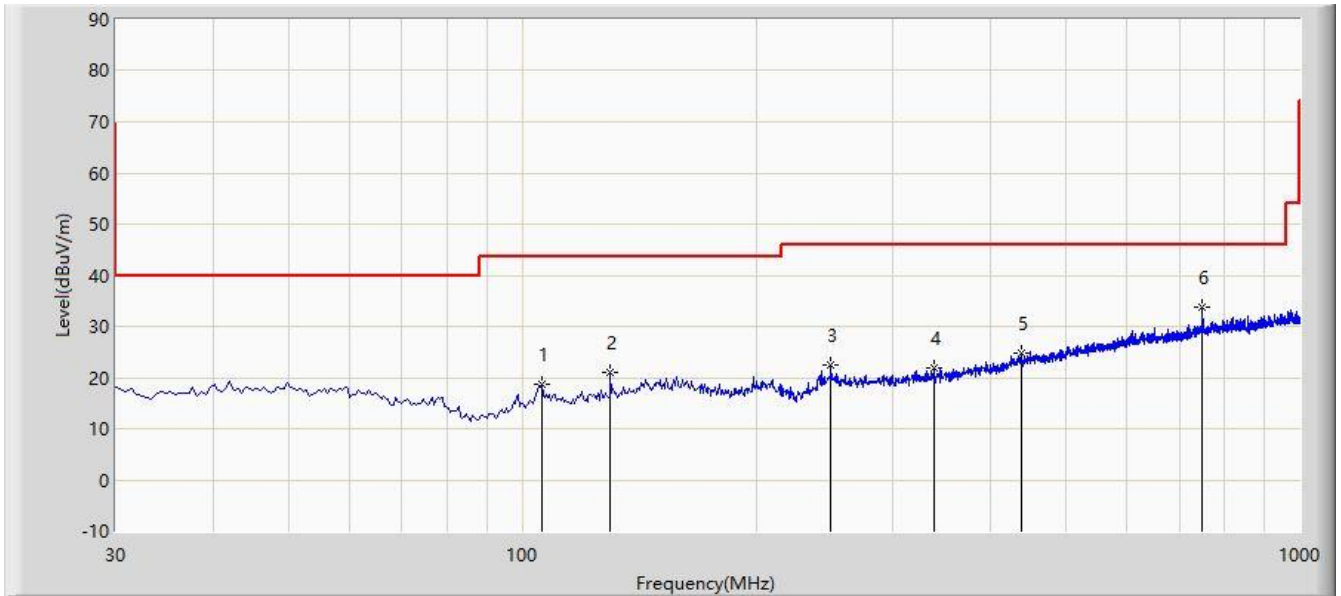


The Result of Radiated Emission below 1GHz:

Site: SIP-AC3	Time: 2021/05/14
Limit: FCC_Part15.209_RSE(3m)	Engineer: Kyrie Xie
Probe: SIP-AC3_VULB 9168_30-1000MHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			106.145	18.699	4.335	-24.801	43.500	14.364	PK
2			129.910	21.044	4.672	-22.456	43.500	16.372	PK
3			249.705	22.338	5.524	-23.662	46.000	16.814	PK
4			337.975	21.773	2.407	-24.227	46.000	19.366	PK
5			438.370	24.895	2.871	-21.105	46.000	22.024	PK
6		*	750.225	33.815	5.978	-12.185	46.000	27.837	PK

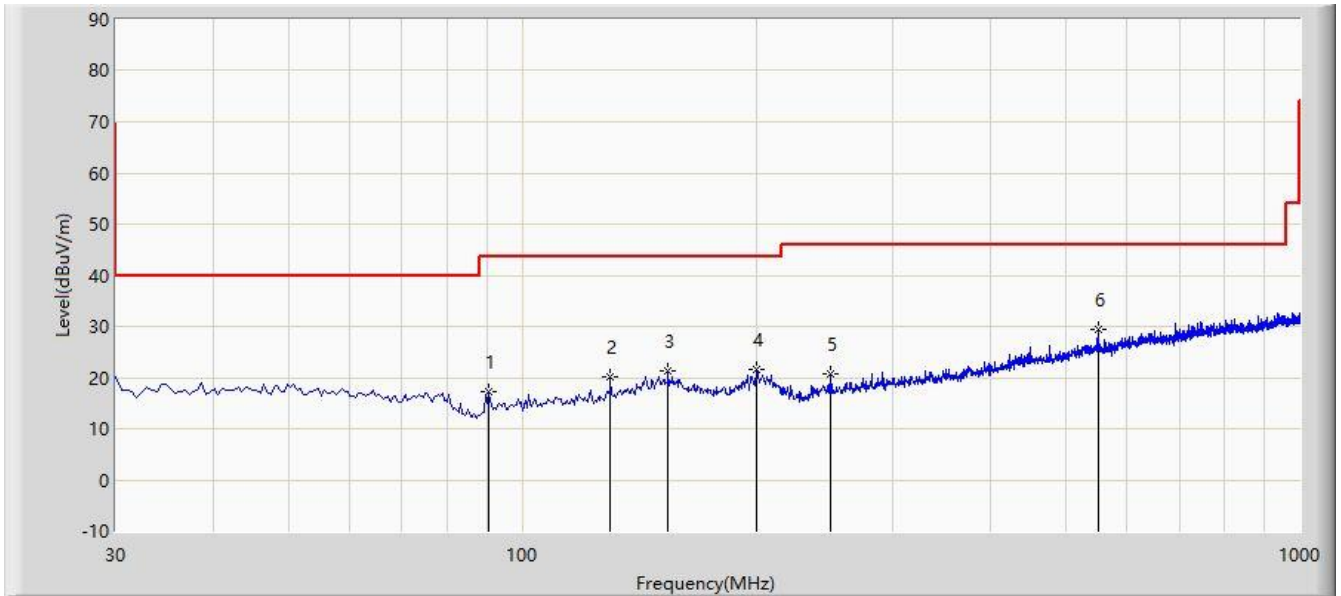
Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: SIP-AC3	Time: 2021/05/14
Limit: FCC_Part15.209_RSE(3m)	Engineer: Kyrie Xie
Probe: SIP-AC3_VULB 9168_30-1000MHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			90.625	17.341	5.345	-26.159	43.500	11.995	PK
2			129.910	20.061	3.689	-23.439	43.500	16.372	PK
3			154.160	21.371	3.277	-22.129	43.500	18.094	PK
4			199.750	21.575	6.776	-21.925	43.500	14.799	PK
5			249.705	20.795	3.981	-25.205	46.000	16.814	PK
6		*	549.920	29.297	5.411	-16.703	46.000	23.886	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

6.7. Radiated Restricted Band Edge Measurement

6.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.009 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for license exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.
8.37625 - 8.38675	1718.8 -1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 -2390	
12.51975 - 12.52025	2483.5 -2500	
12.57675 - 12.57725	2655 - 2900	
13.36 -13.41	3260 - 3267	
16.42 - 16.423	3332 -3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9			
Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Magnetic Field Strength (H-Field) ($\mu\text{A/m}$)	Measured Distance (m)
0.009 - 0.490 1	--	6.37/F (F in kHz)	300
0.490 - 1.705	--	6.37/F (F in kHz)	30
1.705 - 30	--	0.08	30
30 - 88	100	--	3
88 - 216	150	--	3
216 - 960	200	--	3
Above 960	500	--	3

6.7.2.Test Procedure Used

ANSI C63.10-2013 Section 6.3 (General Requirements)

ANSI C63.10-2013 Section 6.6 (Standard test method above 1GHz)

6.7.3.Test Setting

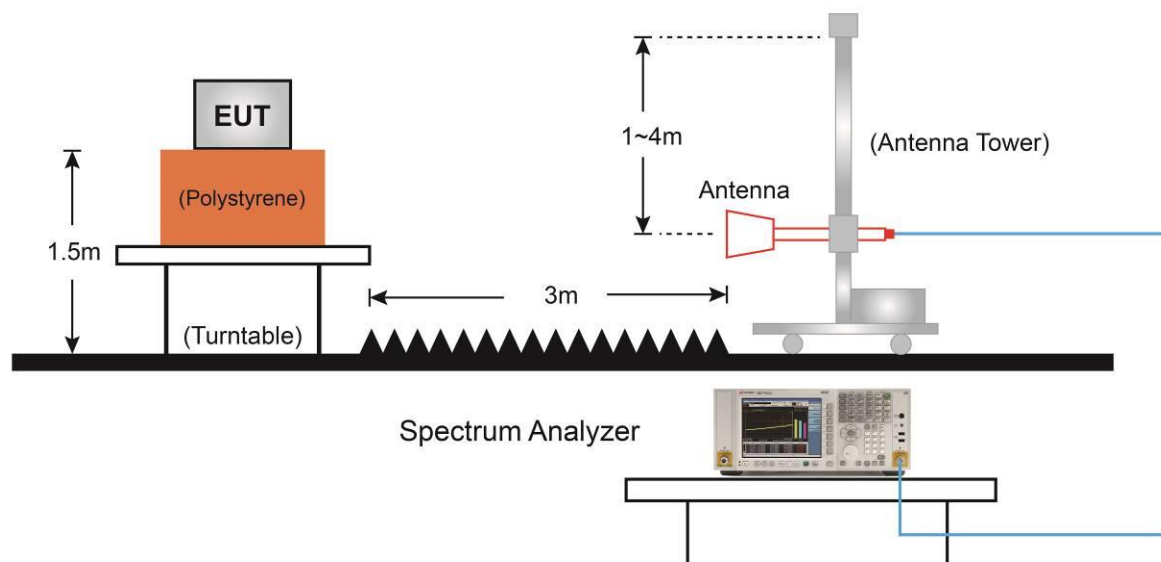
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

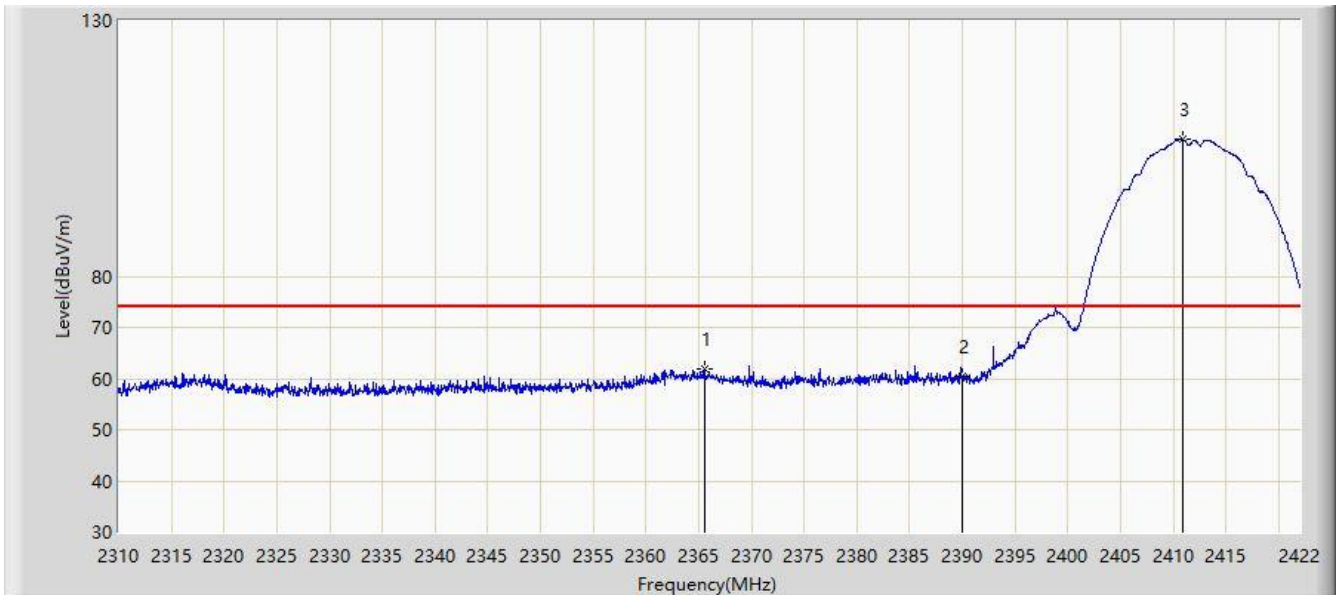
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.7.4. Test Setup



6.7.5.Test Result

Site: SIP-AC2	Time: 2021/05/13 - 09:52
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2412MHz	

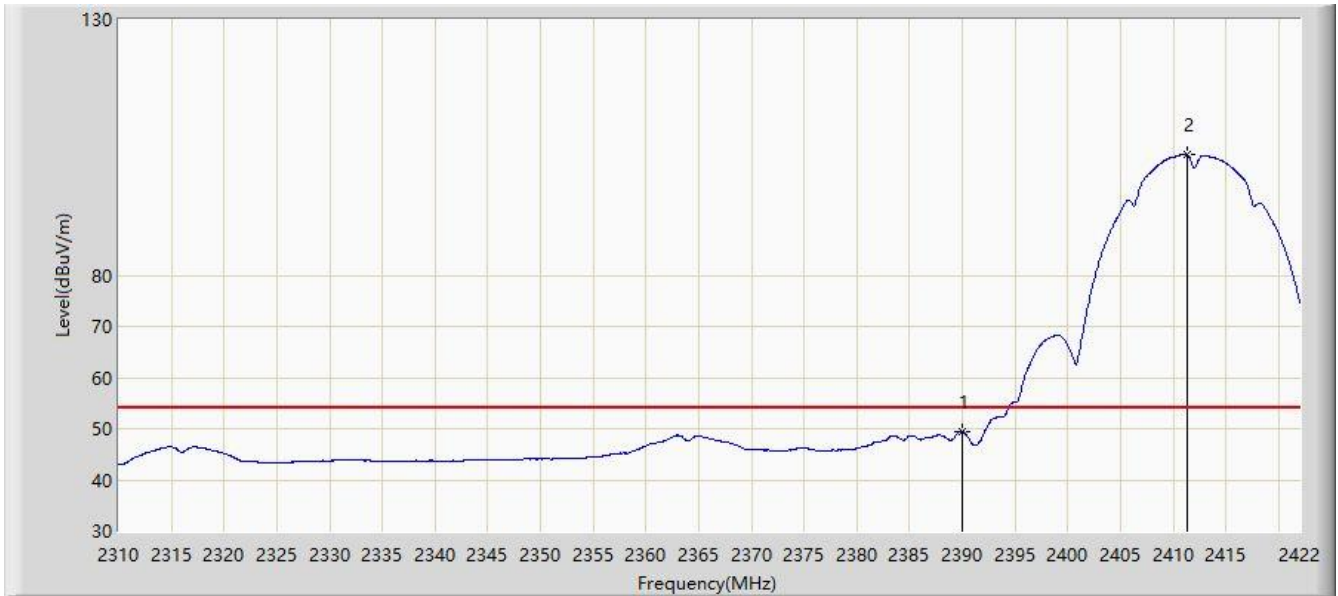


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			2365.552	61.982	29.911	-12.018	74.000	32.071	PK
2			2390.000	60.481	28.500	-13.519	74.000	31.981	PK
3		*	2410.968	106.724	74.779	N/A	N/A	31.945	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 10:00
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Note: Transmit by 802.11b at Channel 2412MHz	

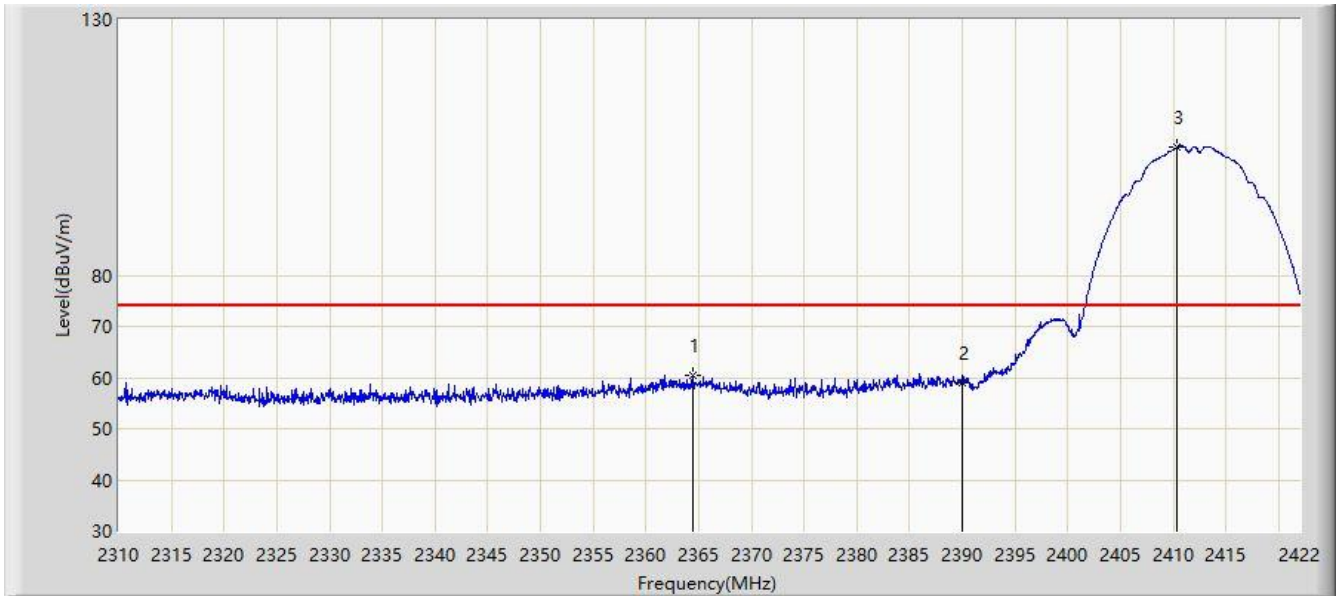


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	49.461	17.480	-4.539	54.000	31.981	AV
2		*	2411.304	103.570	71.626	N/A	N/A	31.944	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 10:09
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2412MHz	

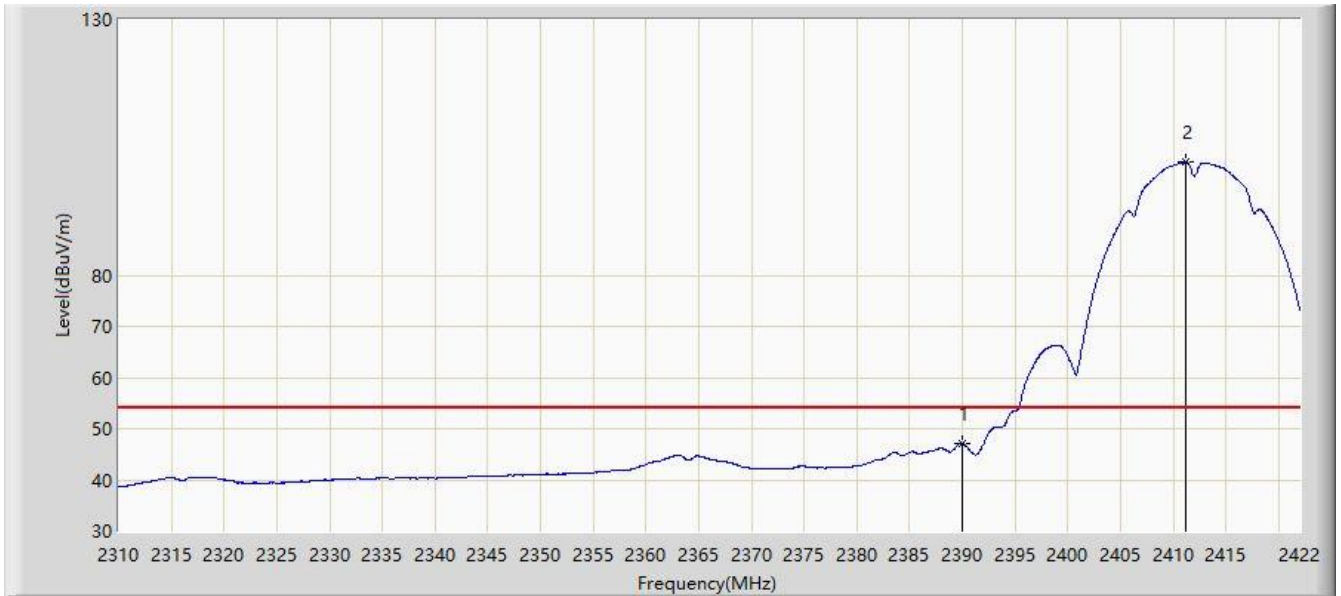


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2364.432	60.316	28.241	-13.684	74.000	32.075	PK
2			2390.000	59.088	27.107	-14.912	74.000	31.981	PK
3		*	2410.352	105.059	73.113	N/A	N/A	31.946	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 10:13
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2412MHz	

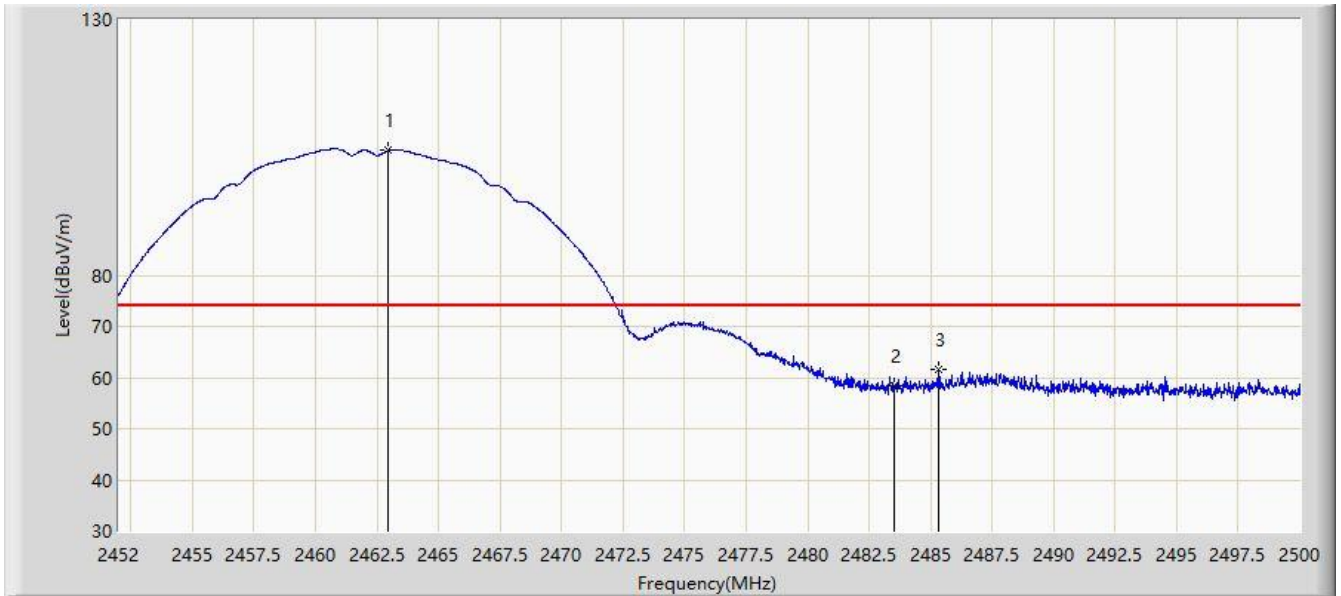


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	47.171	15.190	-6.829	54.000	31.981	AV
2		*	2411.136	102.137	70.192	N/A	N/A	31.945	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 10:16
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2462.968	104.386	72.550	N/A	N/A	31.836	PK
2			2483.500	58.309	26.497	-15.691	74.000	31.812	PK
3			2485.312	61.522	29.713	-12.478	74.000	31.809	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 10:20
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2462MHz	

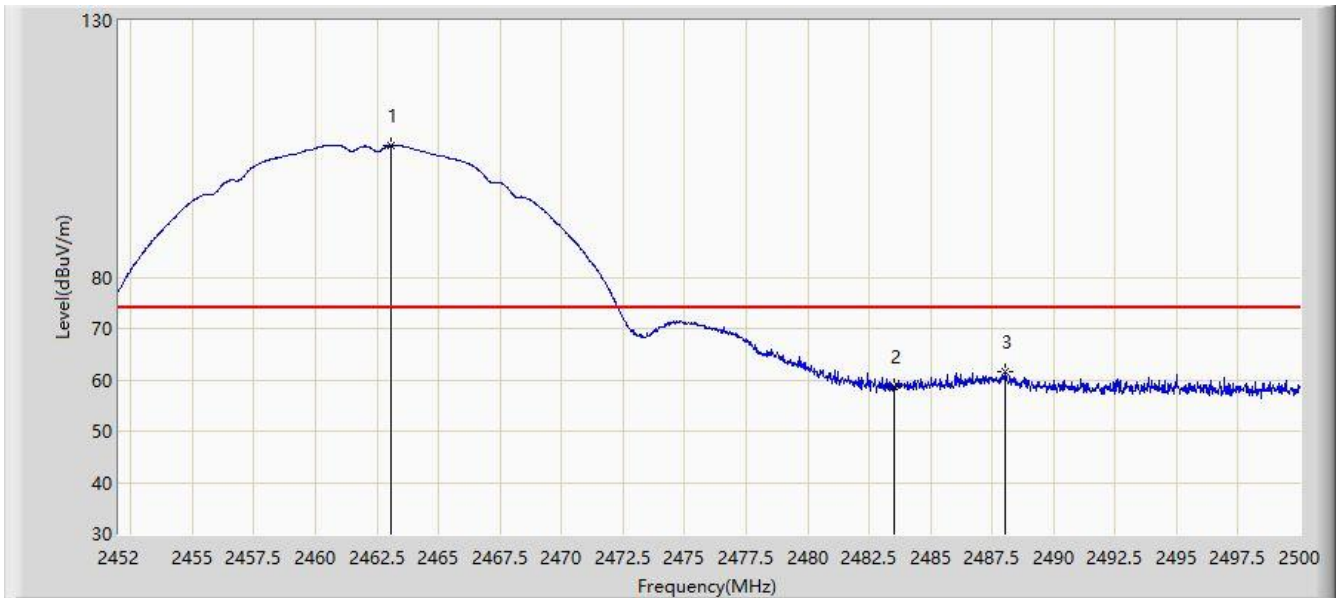


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.240	101.687	69.849	N/A	N/A	31.839	AV
2			2483.500	44.272	12.460	-9.728	54.000	31.812	AV
3			2487.880	47.610	15.804	-6.390	54.000	31.806	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 10:22
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2463.088	105.629	73.793	N/A	N/A	31.836	PK
2			2483.500	58.810	26.998	-15.190	74.000	31.812	PK
3			2488.048	61.726	29.921	-12.274	74.000	31.805	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 10:25
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2462MHz	

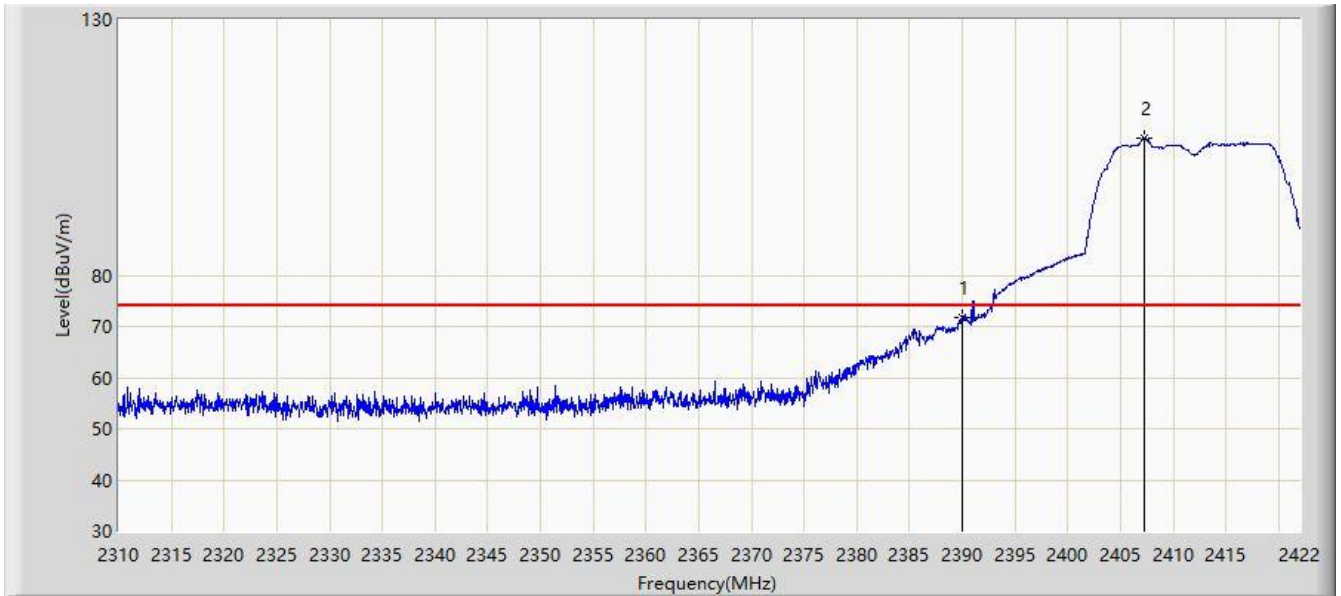


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.872	102.396	70.560	N/A	N/A	31.836	AV
2			2483.500	45.071	13.259	-8.929	54.000	31.812	AV
3			2487.544	48.174	16.368	-5.826	54.000	31.806	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:04
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2412MHz	

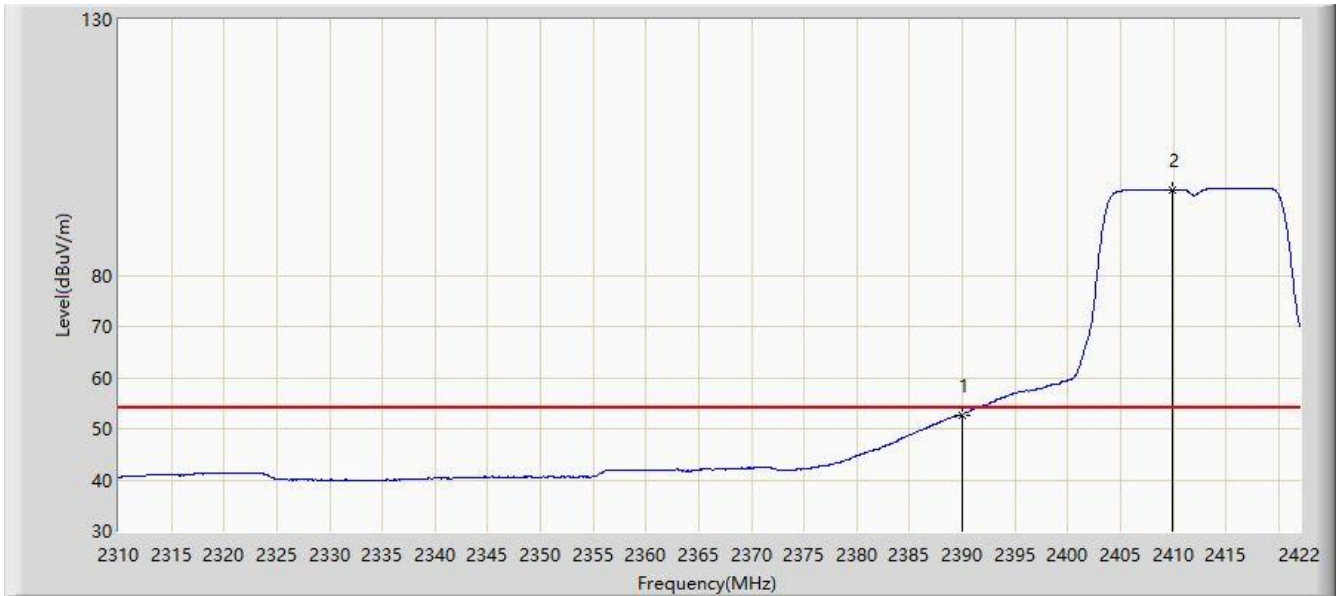


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	71.718	39.737	-2.282	74.000	31.981	PK
2		*	2407.328	106.868	74.918	N/A	N/A	31.950	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:14
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2412MHz	

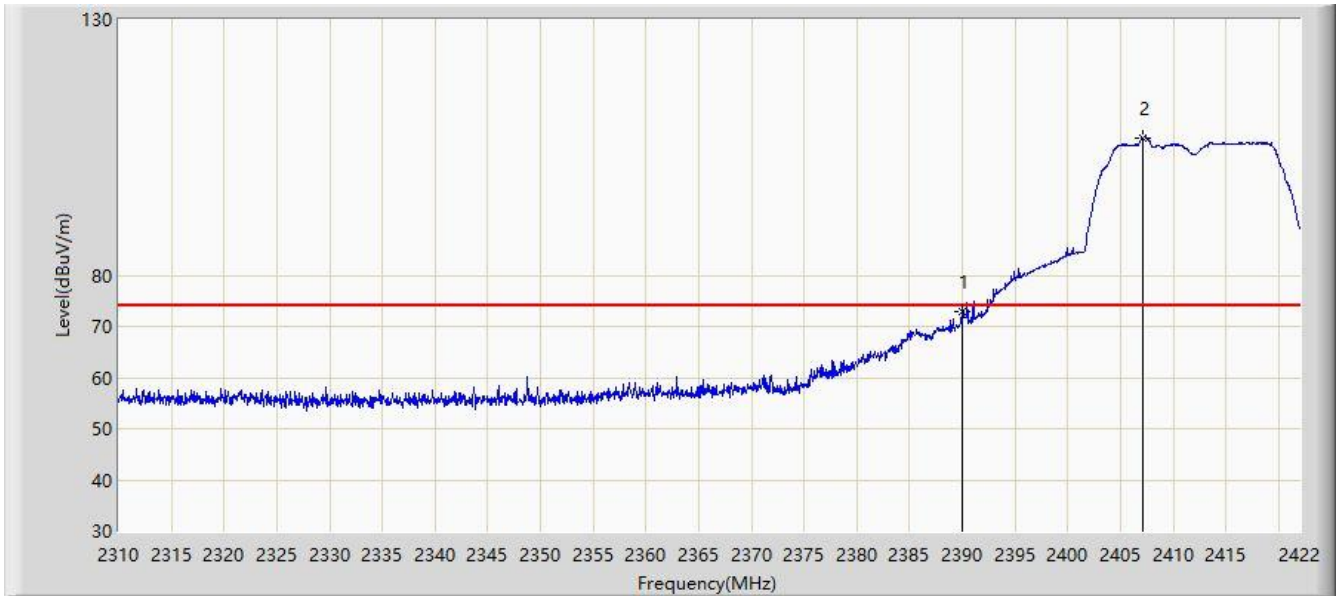


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.721	20.740	-1.279	54.000	31.981	AV
2		*	2409.904	96.733	64.786	N/A	N/A	31.946	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:17
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2412MHz	

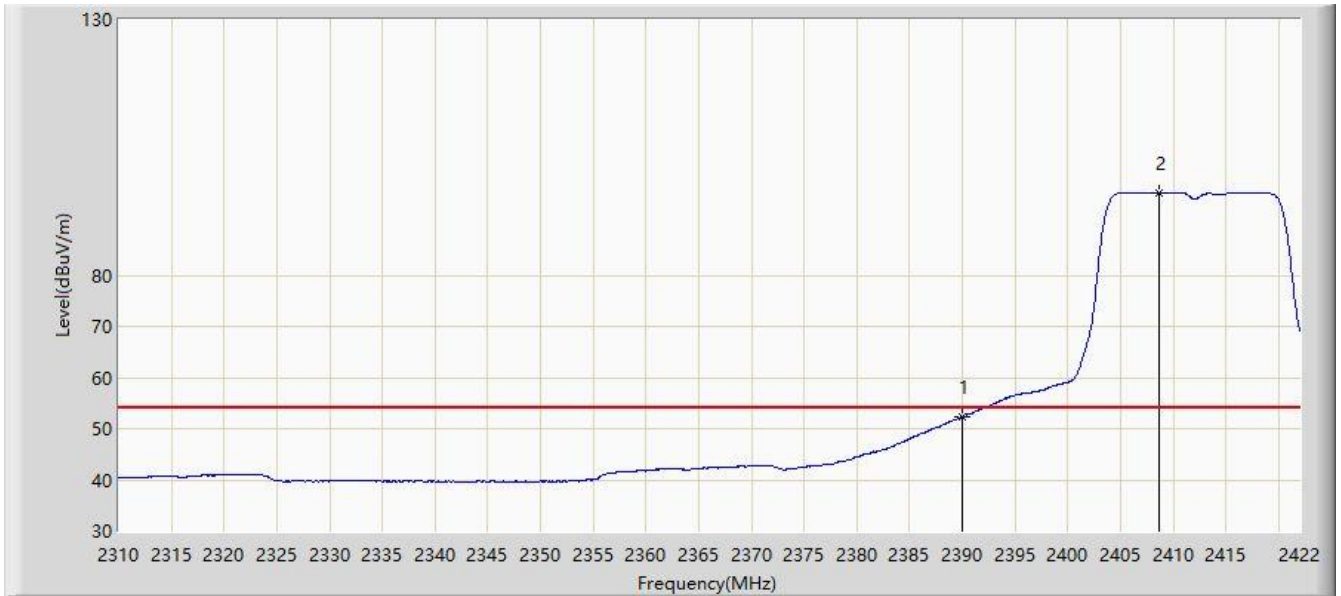


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	72.768	40.787	-1.232	74.000	31.981	PK
2		*	2407.160	106.906	74.956	N/A	N/A	31.949	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:22
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.253	20.272	-1.747	54.000	31.981	AV
2		*	2408.728	96.035	64.087	N/A	N/A	31.948	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:35
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2462MHz	

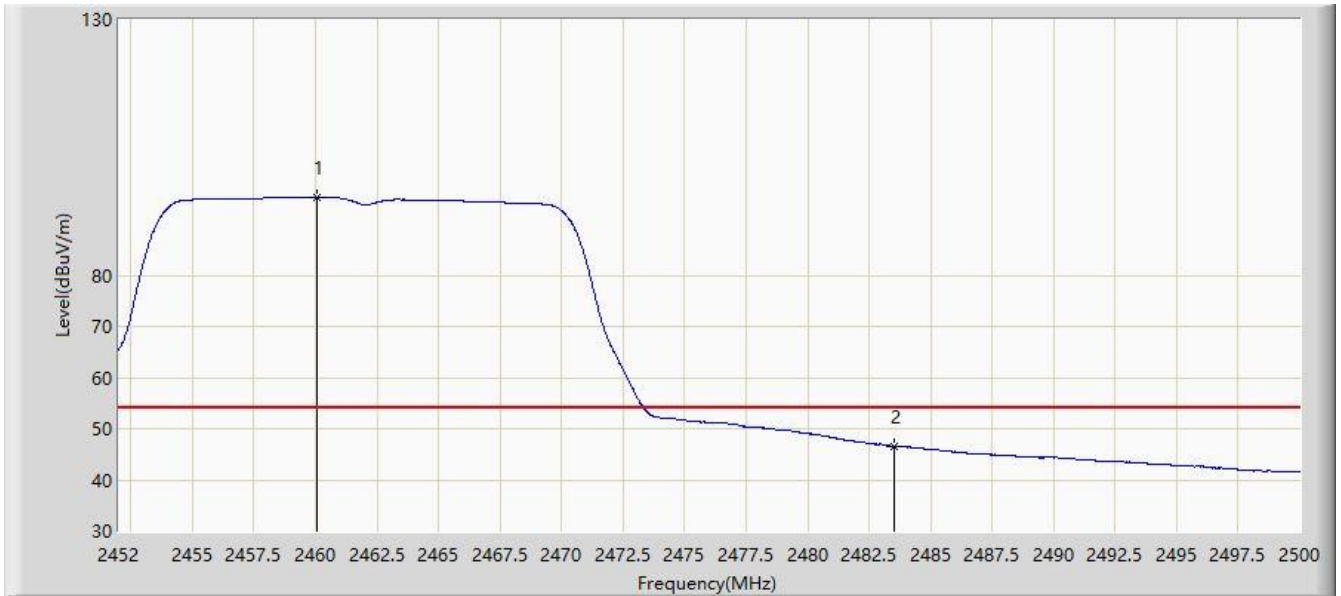


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2457.424	105.374	73.528	N/A	N/A	31.846	PK
2			2483.500	67.053	35.241	-6.947	74.000	31.812	PK
3			2484.304	70.428	38.617	-3.572	74.000	31.811	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:41
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2460.040	95.193	63.352	N/A	N/A	31.841	AV
2			2483.500	46.629	14.817	-7.371	54.000	31.812	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:31
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2462MHz	

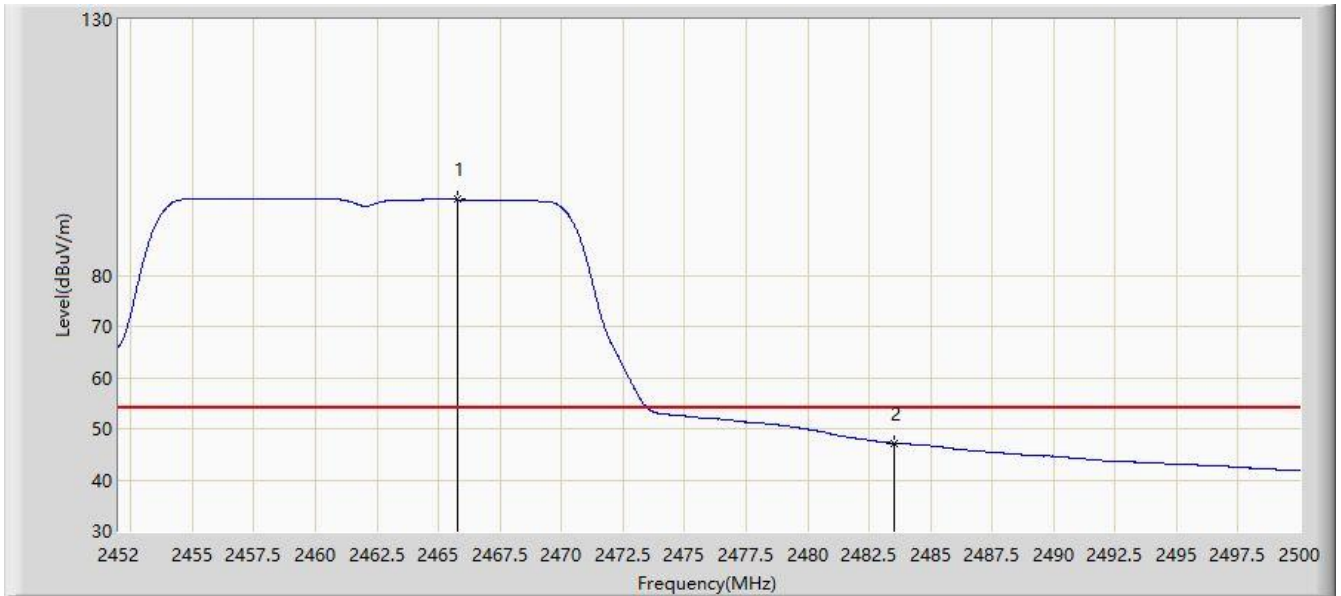


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2457.208	105.252	73.405	N/A	N/A	31.846	PK
2			2483.500	68.109	36.297	-5.891	74.000	31.812	PK
3			2484.280	72.114	40.303	-1.886	74.000	31.811	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:33
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2462MHz	

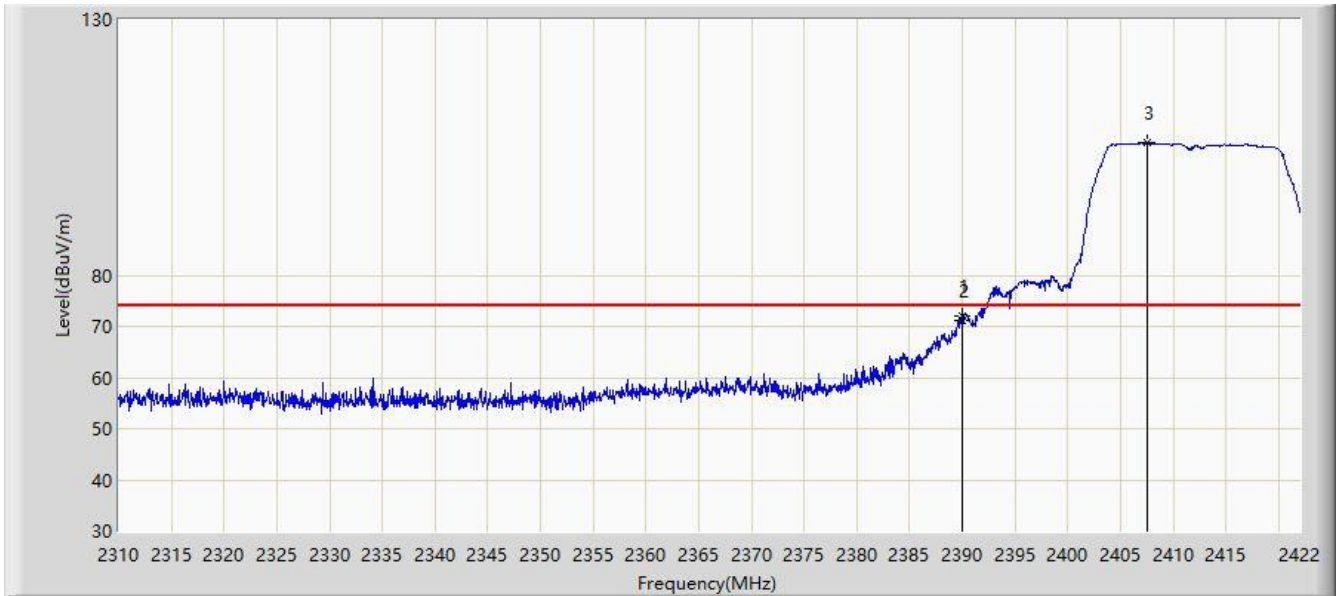


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2465.776	94.784	62.951	N/A	N/A	31.832	AV
2			2483.500	47.211	15.399	-6.789	54.000	31.812	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:43
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	

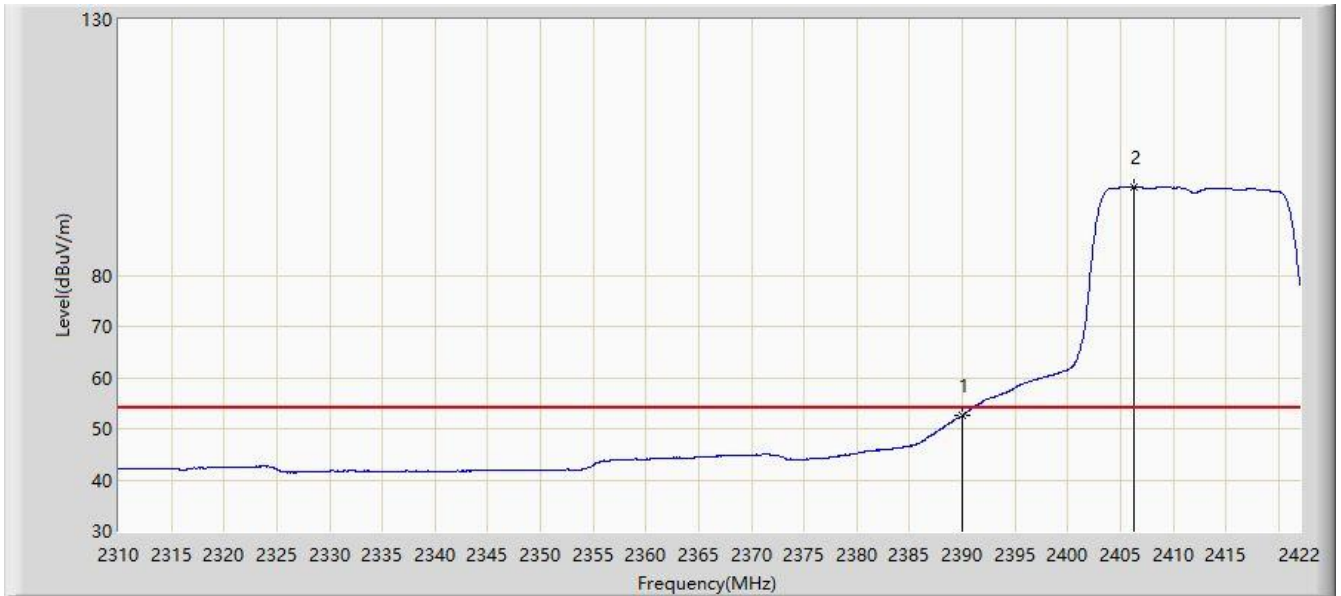


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.968	72.045	40.064	-1.955	74.000	31.981	PK
2			2390.000	71.172	39.191	-2.828	74.000	31.981	PK
3		*	2407.608	105.958	74.009	N/A	N/A	31.949	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:48
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	

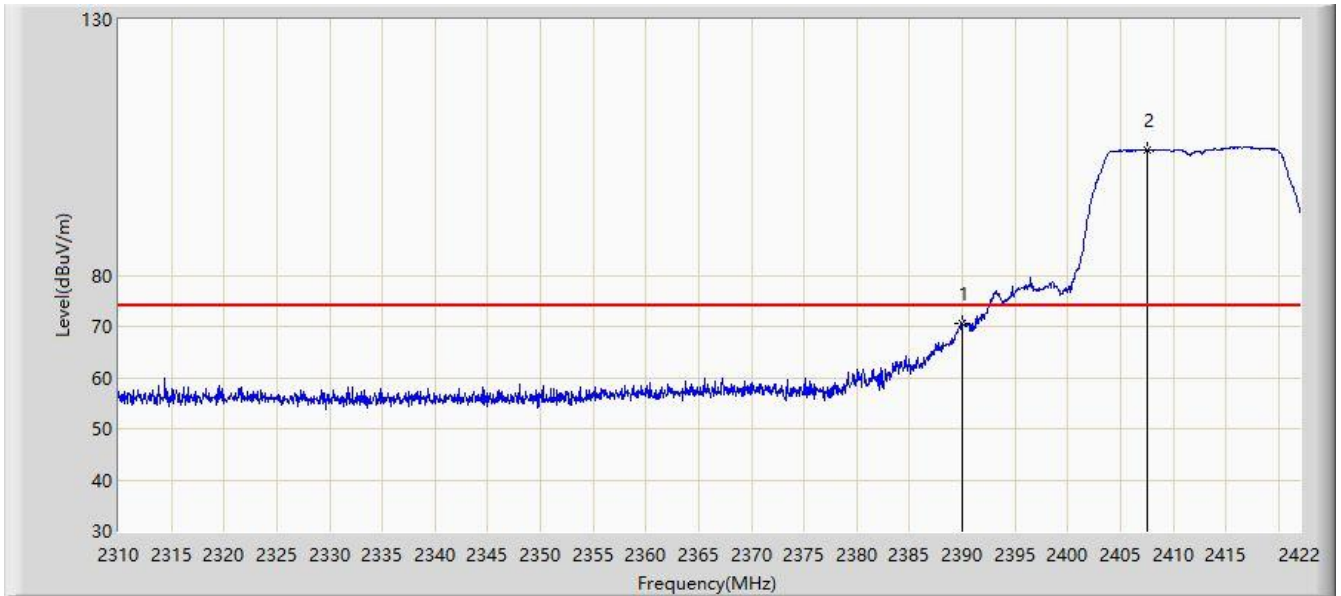


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.553	20.572	-1.447	54.000	31.981	AV
2		*	2406.264	97.241	65.290	N/A	N/A	31.951	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:51
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	

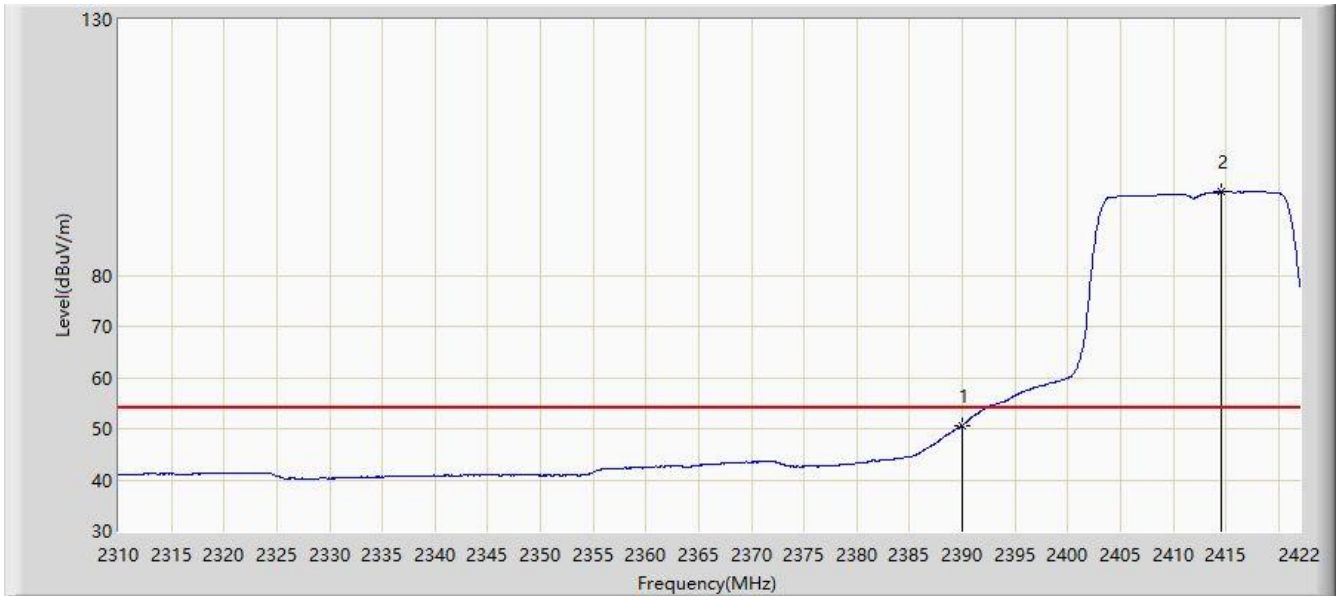


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	70.465	38.484	-3.535	74.000	31.981	PK
2		*	2407.496	104.573	72.624	N/A	N/A	31.950	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 13:54
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			2390.000	50.636	18.655	-3.364	54.000	31.981	AV
2		*	2414.608	96.312	64.377	N/A	N/A	31.935	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 14:05
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

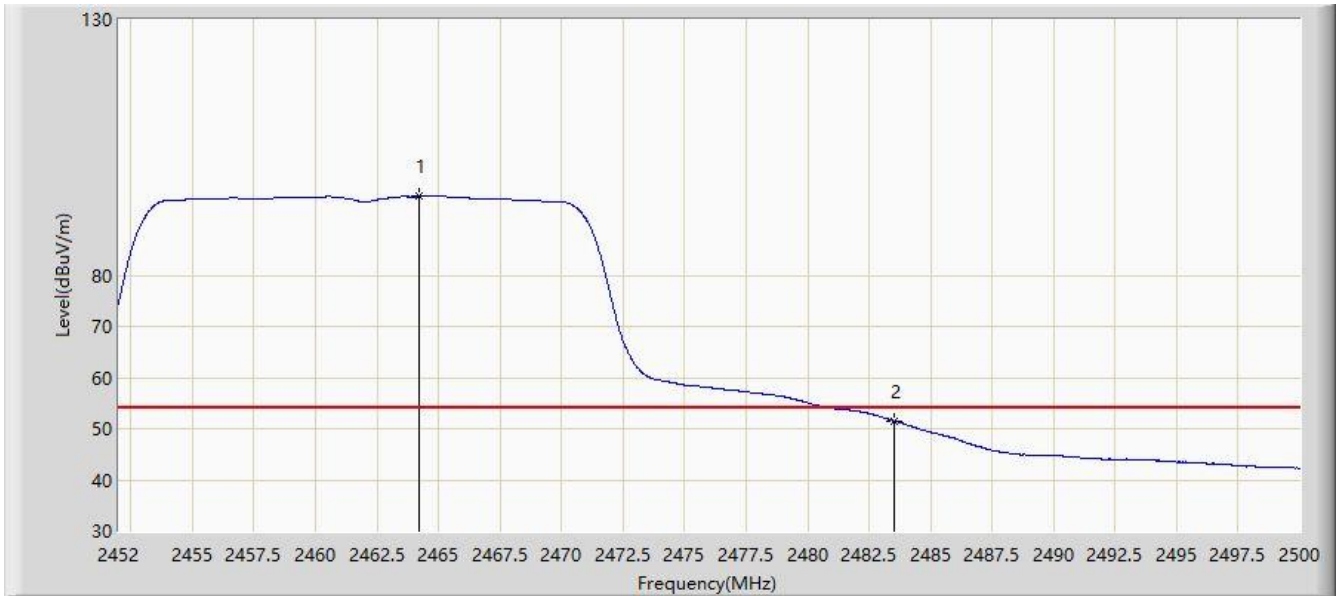


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2464.216	103.769	71.935	N/A	N/A	31.835	PK
2			2483.500	68.992	37.180	-5.008	74.000	31.812	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 14:04
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

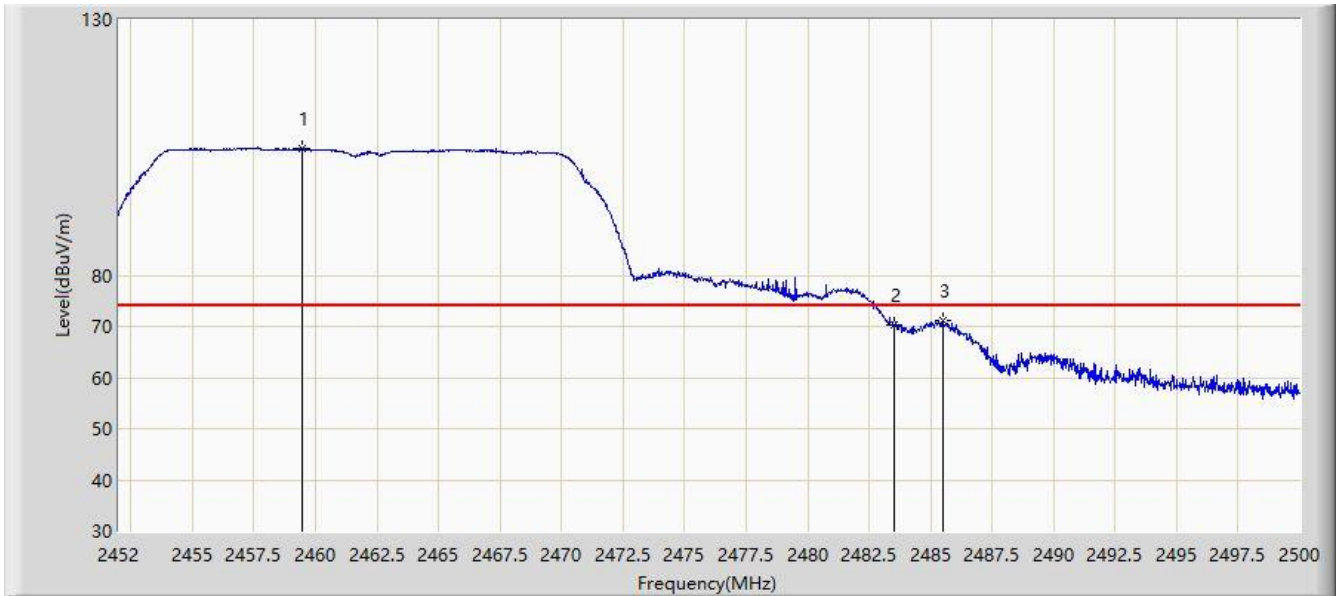


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2464.240	95.375	63.541	N/A	N/A	31.835	AV
2			2483.500	51.548	19.736	-2.452	54.000	31.812	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 14:06
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Note: Transmit by 802.11n-HT20 at Channel 2462MHz	

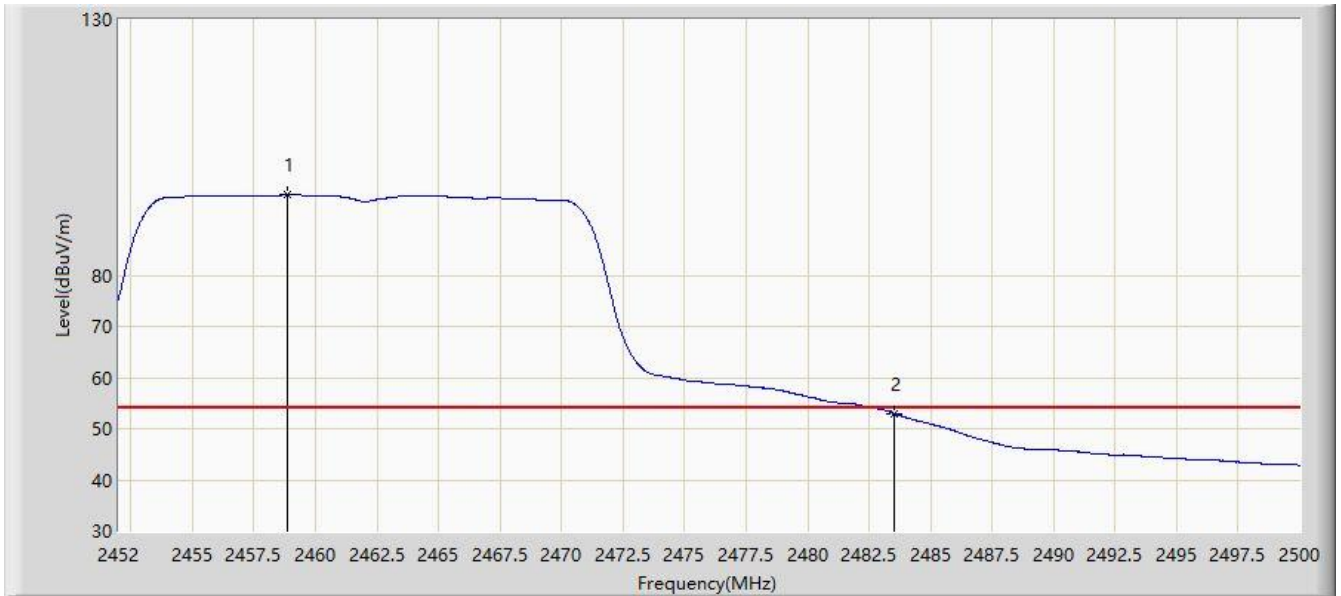


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.440	104.691	72.849	N/A	N/A	31.842	PK
2			2483.500	70.297	38.485	-3.703	74.000	31.812	PK
3			2485.528	71.054	39.245	-2.946	74.000	31.809	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 14:11
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

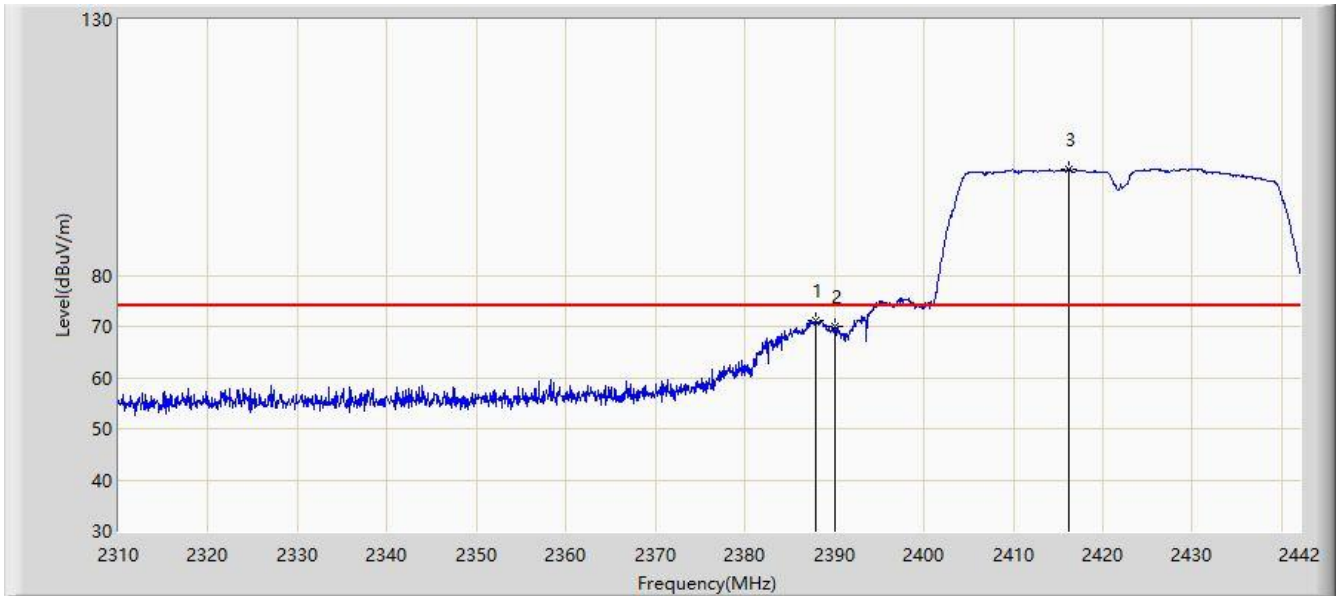


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2458.840	95.688	63.845	N/A	N/A	31.843	AV
2			2483.500	52.994	21.182	-1.006	54.000	31.812	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 14:20
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Note: Transmit by 802.11n-HT40 at Channel 2422MHz	

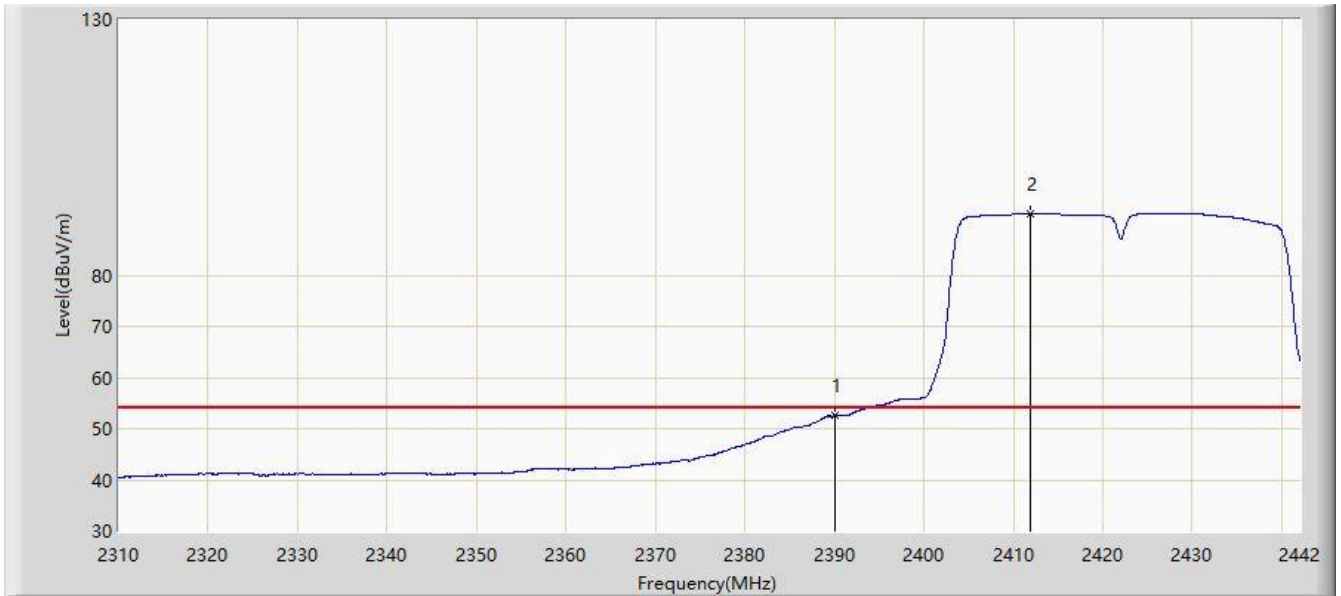


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.880	71.232	39.243	-2.768	74.000	31.989	PK
2			2390.000	69.948	37.967	-4.052	74.000	31.981	PK
3		*	2416.128	100.712	68.782	N/A	N/A	31.931	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 14:16
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

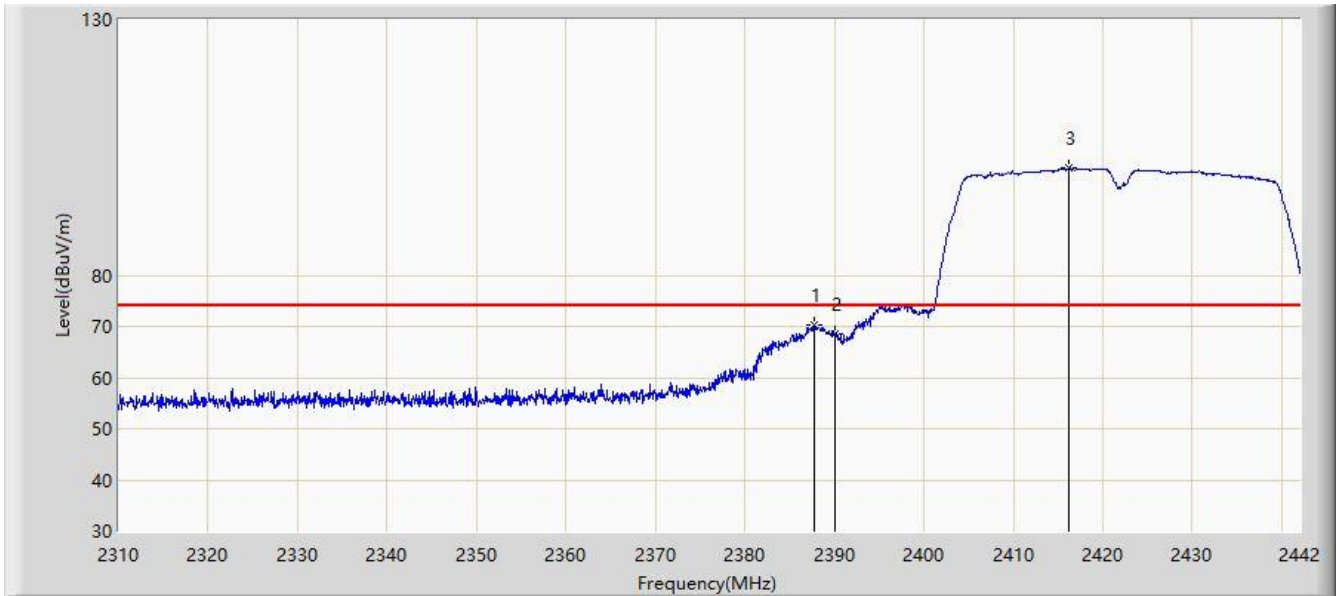


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.526	20.545	-1.474	54.000	31.981	AV
2		*	2411.970	91.989	60.046	N/A	N/A	31.942	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 14:21
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Note: Transmit by 802.11n-HT40 at Channel 2422MHz	

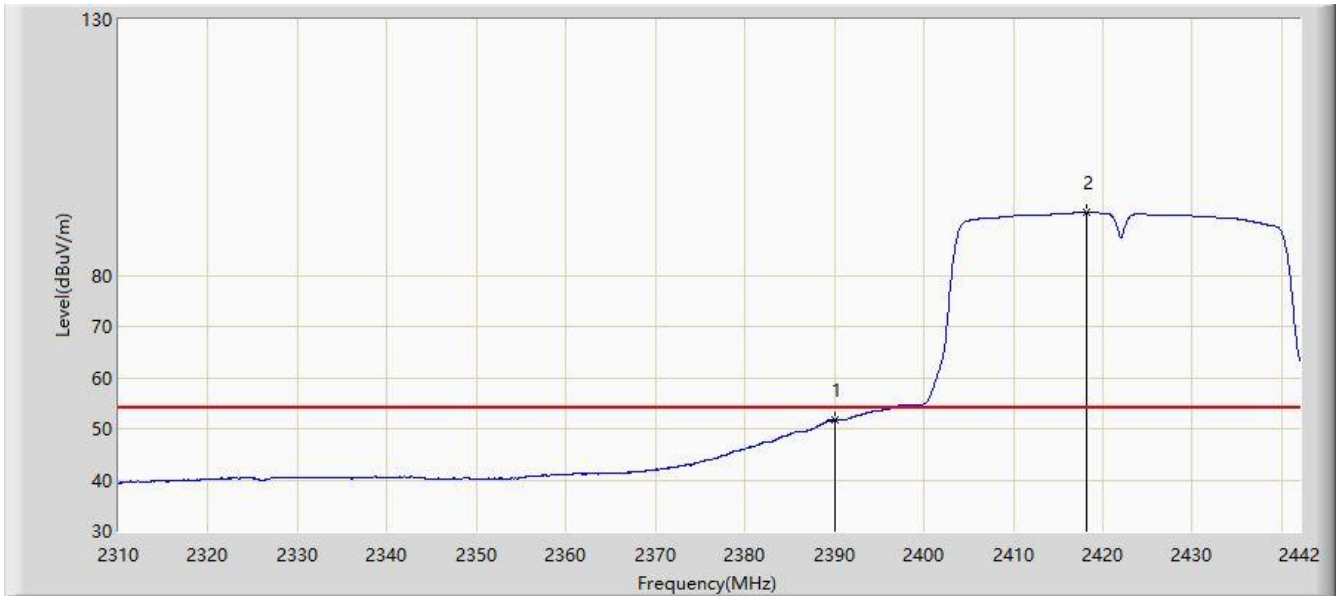


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.682	70.192	38.202	-3.808	74.000	31.990	PK
2			2390.000	68.484	36.503	-5.516	74.000	31.981	PK
3		*	2416.194	101.026	69.096	N/A	N/A	31.930	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 14:24
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

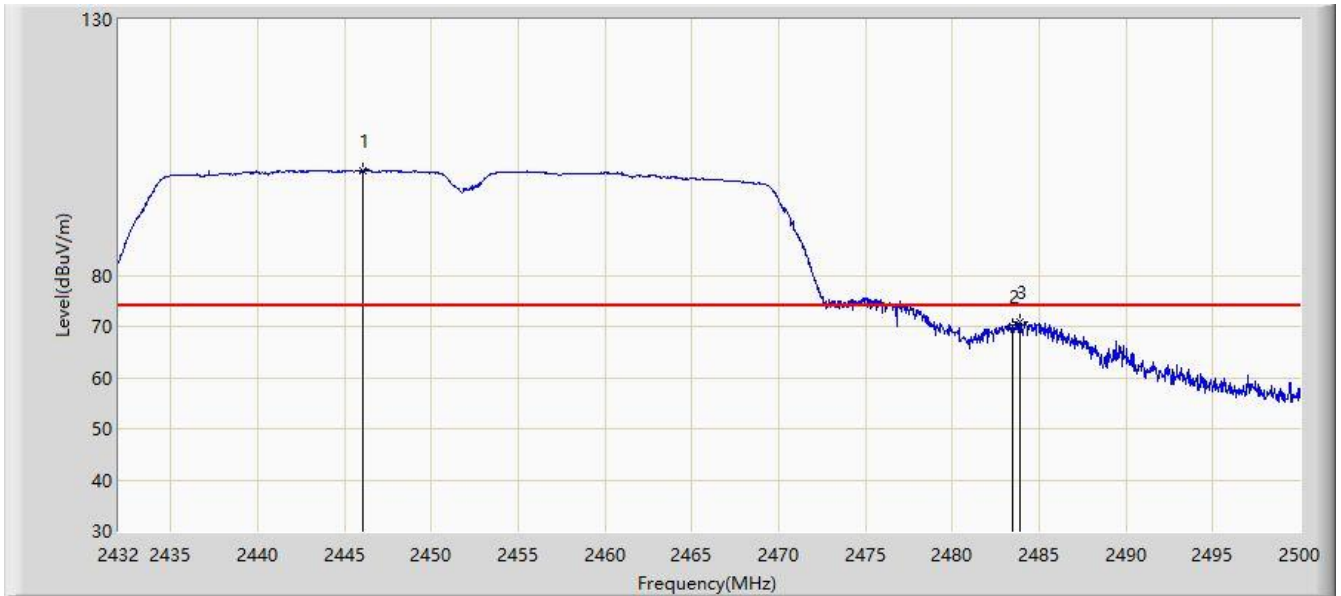


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			2390.000	51.704	19.723	-2.296	54.000	31.981	AV
2		*	2418.108	92.285	60.360	N/A	N/A	31.925	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 11:55
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

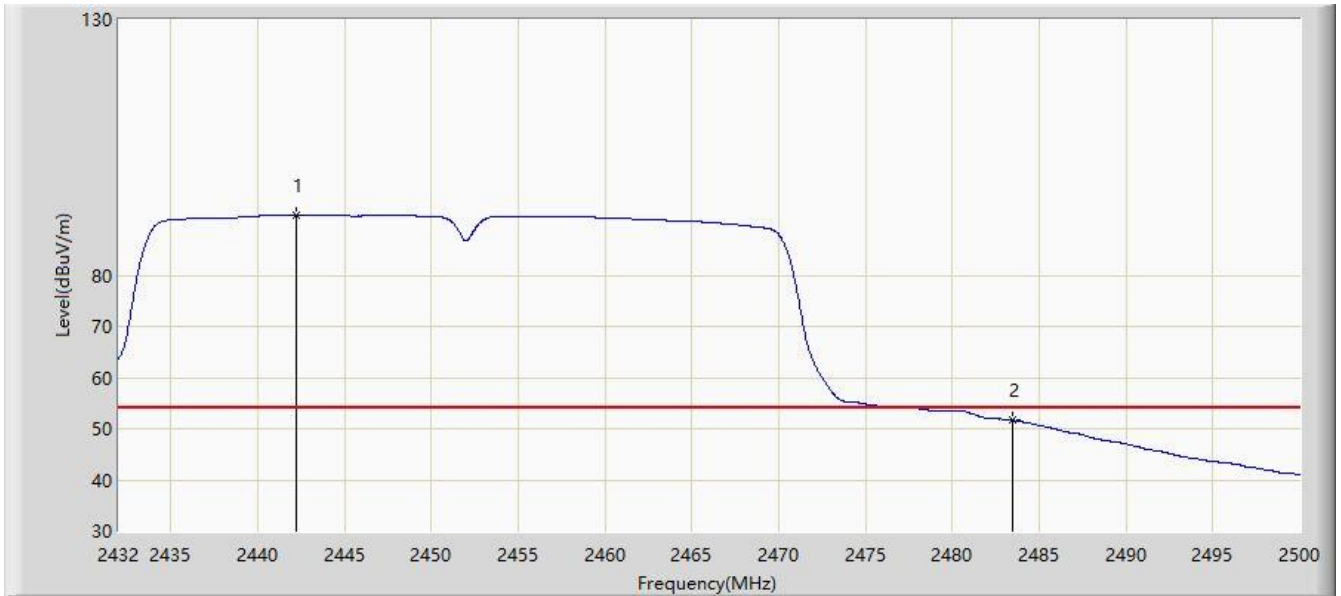


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2446.042	100.400	68.531	N/A	N/A	31.869	PK
2			2483.500	69.890	38.078	-4.110	74.000	31.812	PK
3			2483.918	70.955	39.144	-3.045	74.000	31.811	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 11:58
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

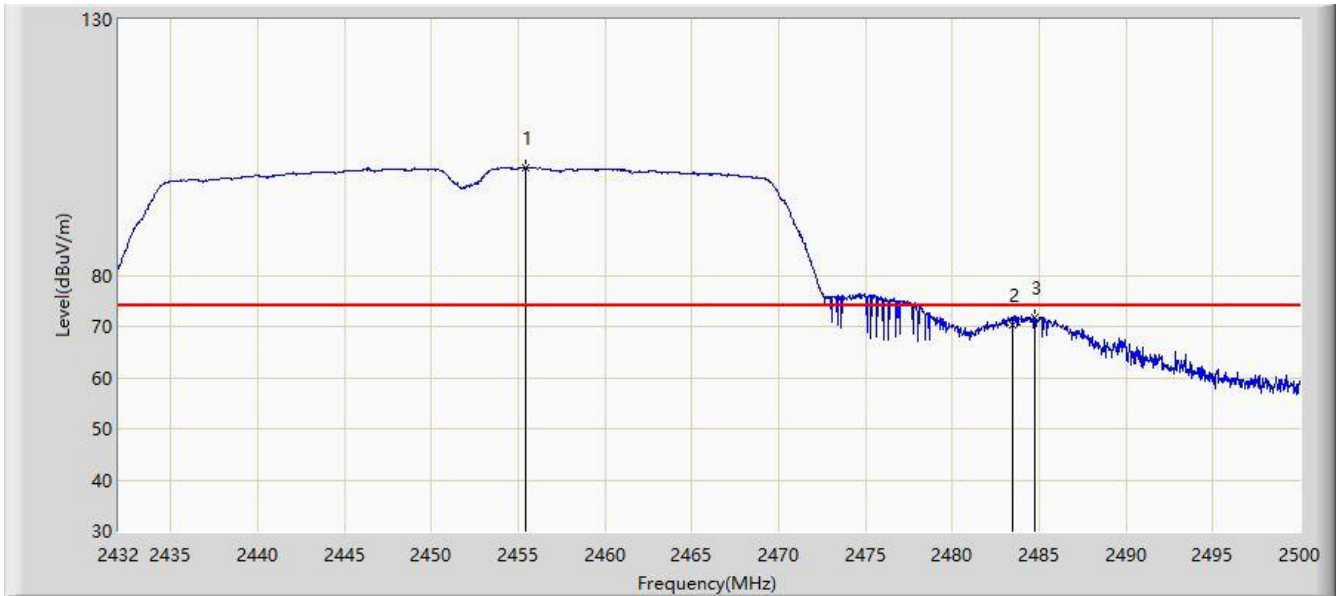


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2442.234	91.774	59.899	N/A	N/A	31.875	AV
2			2483.500	51.645	19.833	-2.355	54.000	31.812	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 11:54
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

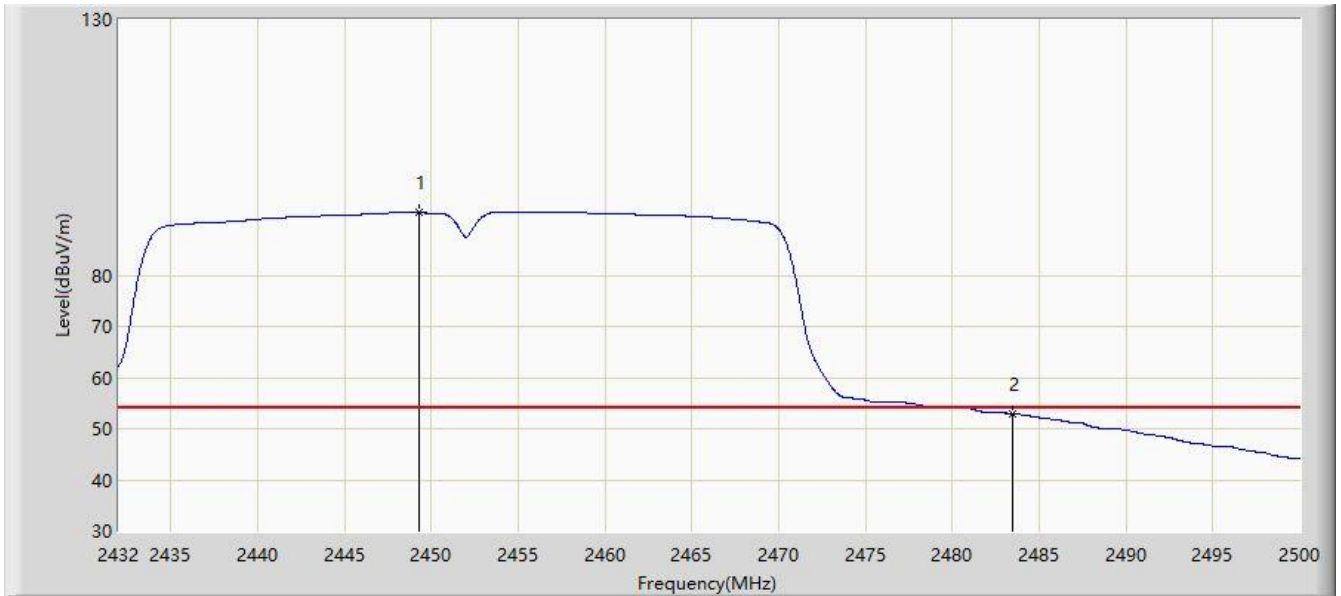


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2455.392	100.969	69.119	N/A	N/A	31.850	PK
2			2483.500	70.192	38.380	-3.808	74.000	31.812	PK
3			2484.734	71.862	40.052	-2.138	74.000	31.811	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC2	Time: 2021/05/13 - 11:53
Limit: FCC_Part15_15.209 RSE(3m)	Engineer: Yien Qian
Probe: SIP-AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Robotic Vacuum Cleaner	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2449.306	92.197	60.334	N/A	N/A	31.863	AV
2			2483.500	52.935	21.123	-1.065	54.000	31.812	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

6.8. AC Conducted Emissions Measurement

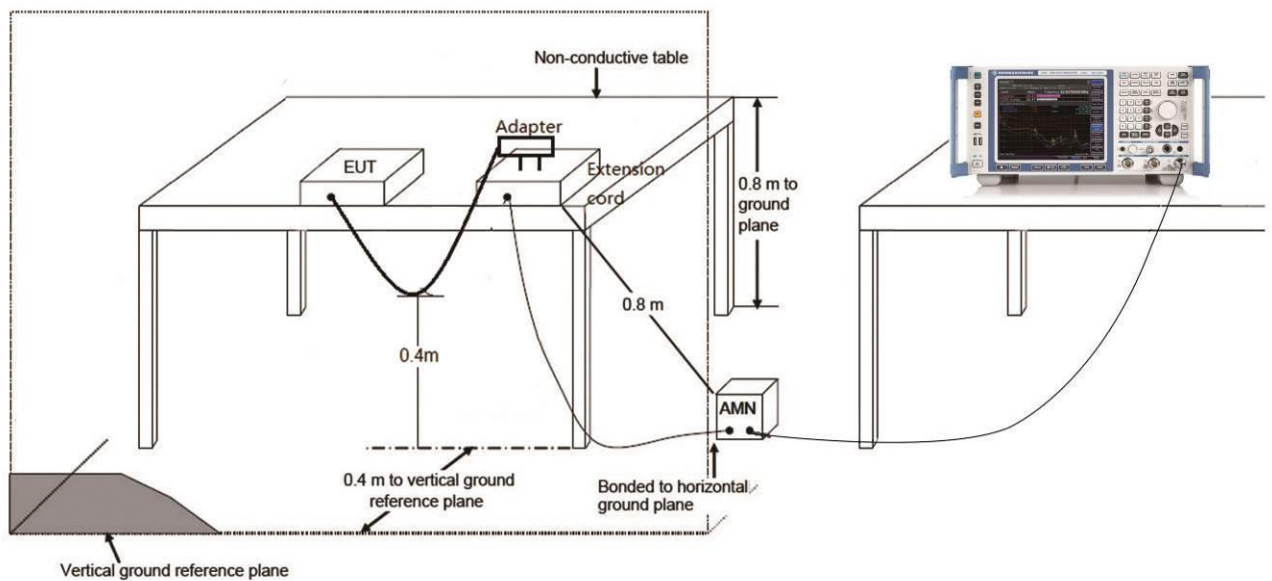
6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 & RSS-Gen Paragraph 8.8 Limits		
Frequency (MHz)	QP (dB μ V)	Average (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

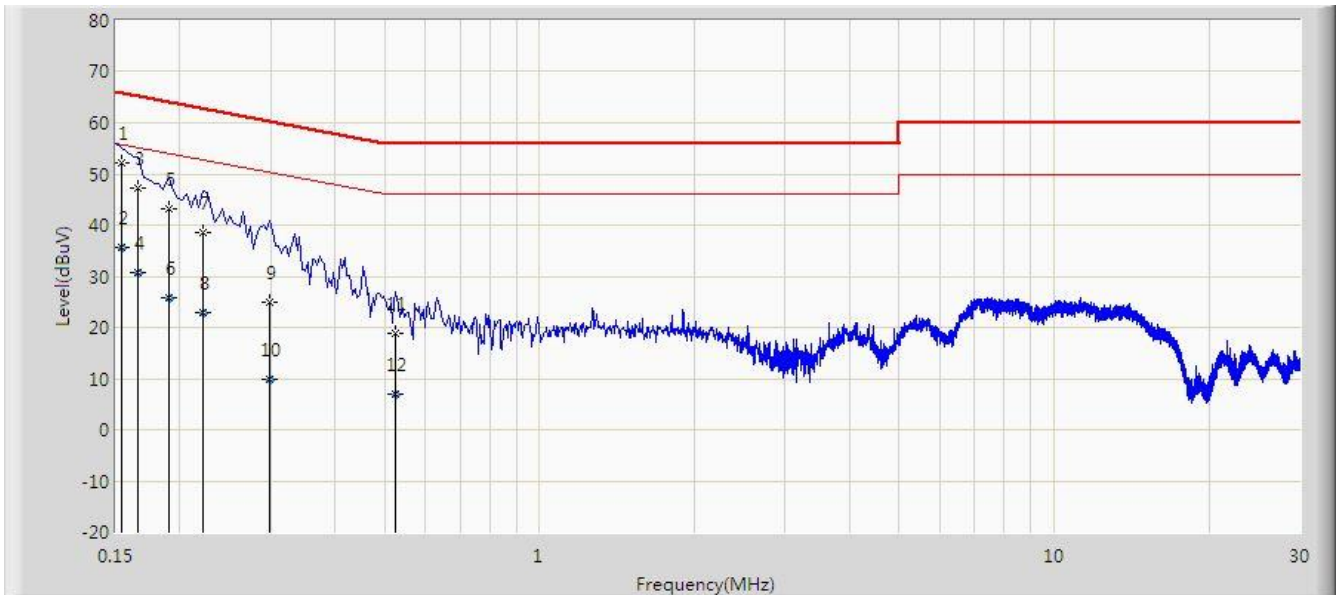
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.8.2. Test Setup



6.8.3.Test Result

Site: SIP-SR2	Time: 2021/05/25
Limit: FCC_Part15.207_CE_AC Power	Engineer: Rupert Wang
Probe: SIP-SR2-ENV216_101684_With Connector	Polarity: Line
EUT: Robotic Vacuum Cleaner	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz with CDZ11RR	

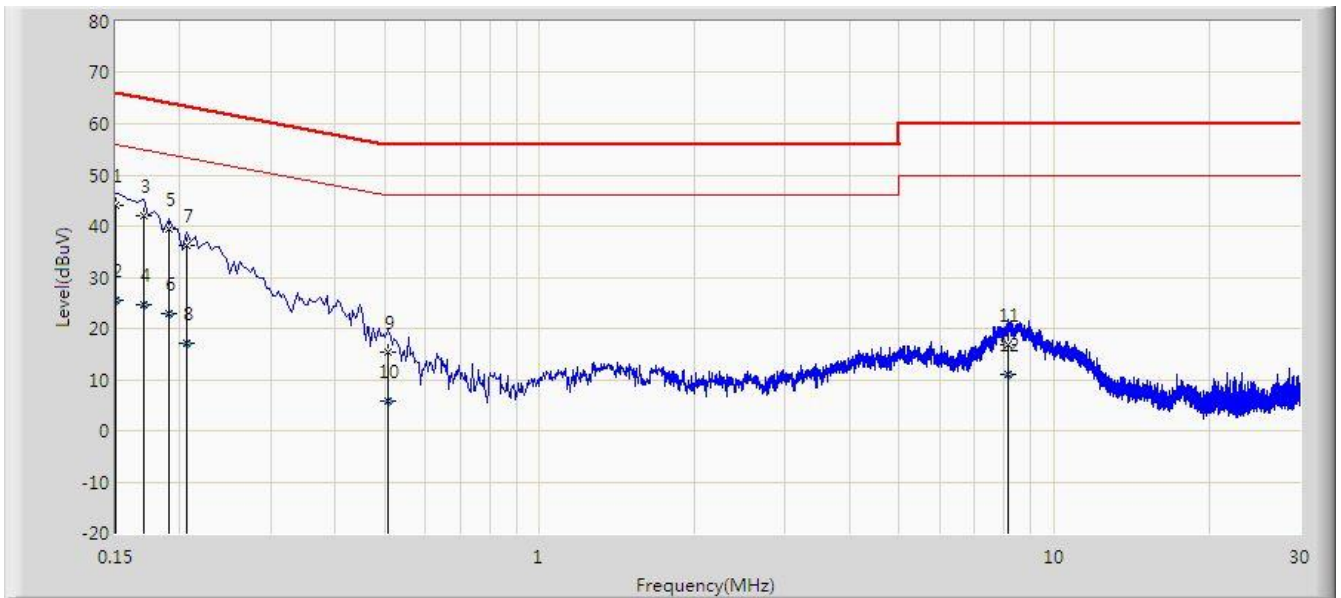


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		*	0.154	52.152	42.700	-13.630	65.781	9.452	QP
2			0.154	35.752	26.300	-20.030	55.781	9.452	AV
3			0.166	47.291	37.837	-17.867	65.158	9.453	QP
4			0.166	30.703	21.250	-24.455	55.158	9.453	AV
5			0.190	43.173	33.701	-20.864	64.037	9.472	QP
6			0.190	25.786	16.315	-28.250	54.037	9.472	AV
7			0.222	38.619	29.109	-24.125	62.744	9.509	QP
8			0.222	22.937	13.428	-29.806	52.744	9.509	AV
9			0.298	24.923	15.387	-35.375	60.298	9.536	QP
10			0.298	9.714	0.178	-40.585	50.298	9.536	AV
11			0.526	18.894	9.334	-37.106	56.000	9.560	QP
12			0.526	6.938	-2.622	-39.062	46.000	9.560	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SIP-SR2	Time: 2021/05/25
Limit: FCC_Part15.207_CE_AC Power	Engineer: Rupert Wang
Probe: SIP-SR2-ENV216_101684_With Connector	Polarity: Neutral
EUT: Robotic Vacuum Cleaner	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz with CDZ11RR	

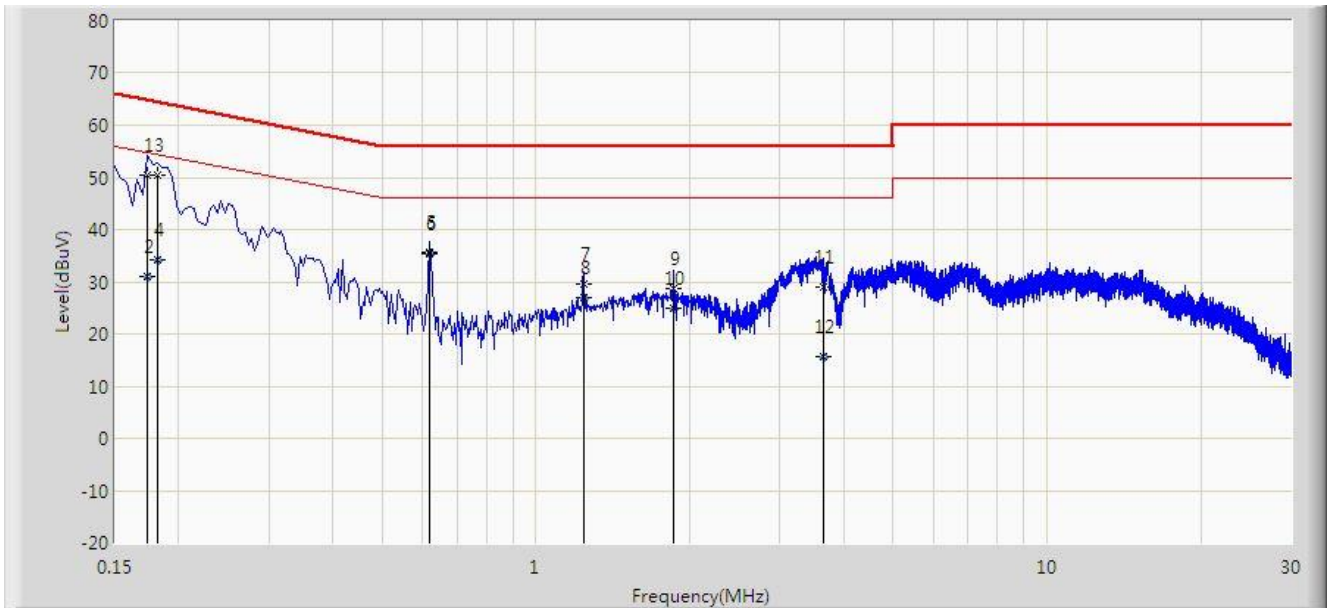


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		*	0.150	44.050	34.619	-21.950	66.000	9.431	QP
2			0.150	25.588	16.156	-30.412	56.000	9.431	AV
3			0.170	41.944	32.510	-23.016	64.960	9.434	QP
4			0.170	24.531	15.097	-30.429	54.960	9.434	AV
5			0.190	39.317	29.865	-24.720	64.037	9.452	QP
6			0.190	22.756	13.305	-31.280	54.037	9.452	AV
7			0.206	36.309	26.834	-27.056	63.365	9.475	QP
8			0.206	17.010	7.535	-36.355	53.365	9.475	AV
9			0.506	15.404	5.865	-40.596	56.000	9.540	QP
10			0.506	5.792	-3.748	-40.208	46.000	9.540	AV
11			8.162	16.940	7.049	-43.060	60.000	9.891	QP
12			8.162	10.924	1.033	-39.076	50.000	9.891	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SIP-SR2	Time: 2021/06/04
Limit: FCC_Part15.207_CE_AC Power	Engineer: Rupert Wang
Probe: SIP-SR2-ENV216_101684_With Connector	Polarity: Line
EUT: Robotic Vacuum Cleaner	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz with CDZ12RR	

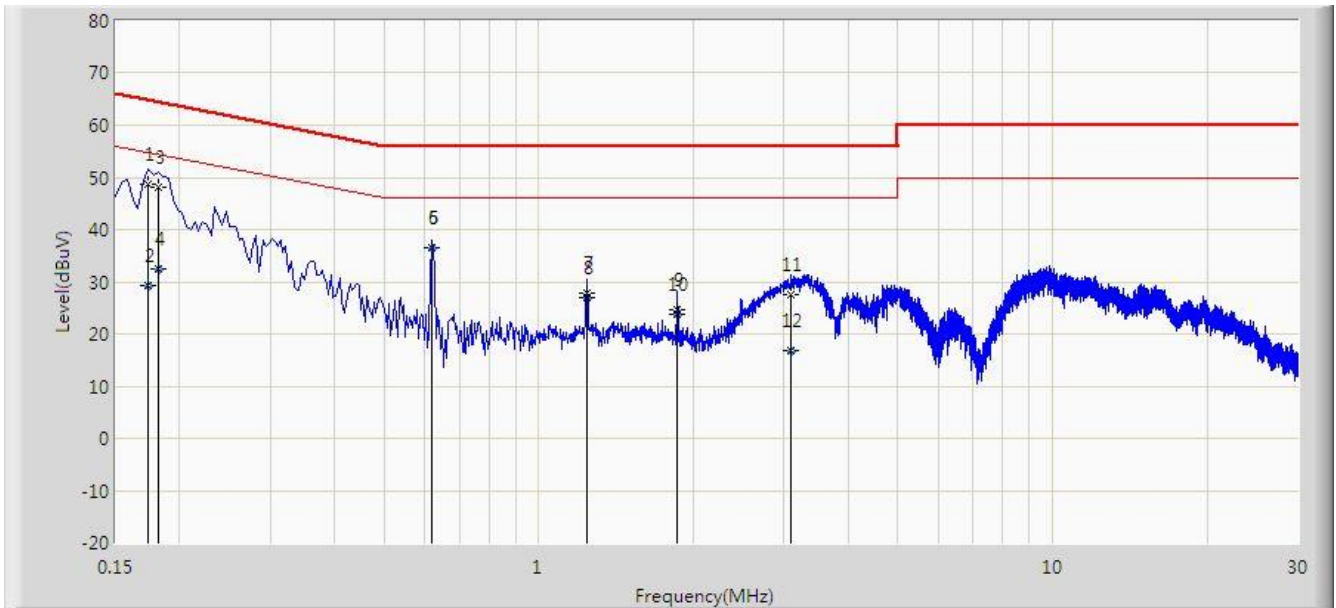


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.174	50.565	41.110	-14.202	64.767	9.455	QP
2			0.174	31.015	21.560	-23.752	54.767	9.455	AV
3			0.182	50.299	40.840	-14.095	64.394	9.460	QP
4			0.182	34.248	24.789	-20.146	54.394	9.460	AV
5			0.618	35.760	26.200	-20.240	56.000	9.560	QP
6		*	0.618	35.460	25.900	-10.540	46.000	9.560	AV
7			1.238	29.644	20.084	-26.356	56.000	9.560	QP
8			1.238	27.014	17.454	-18.986	46.000	9.560	AV
9			1.858	28.826	19.256	-27.174	56.000	9.570	QP
10			1.858	25.005	15.435	-20.995	46.000	9.570	AV
11			3.650	29.074	19.381	-26.926	56.000	9.692	QP
12			3.650	15.587	5.894	-30.413	46.000	9.692	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SIP-SR2	Time: 2021/06/04
Limit: FCC_Part15.207_CE_AC Power	Engineer: Rupert Wang
Probe: SIP-SR2-ENV216_101684_With Connector	Polarity: Neutral
EUT: Robotic Vacuum Cleaner	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz with CDZ12RR	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.174	48.630	39.195	-16.137	64.767	9.435	QP
2			0.174	29.166	19.731	-25.601	54.767	9.435	AV
3			0.182	48.183	38.743	-16.211	64.394	9.440	QP
4			0.182	32.464	23.025	-21.929	54.394	9.440	AV
5			0.618	36.640	27.100	-19.360	56.000	9.540	QP
6		*	0.618	36.440	26.900	-9.560	46.000	9.540	AV
7			1.238	27.862	18.320	-28.138	56.000	9.542	QP
8			1.238	26.955	17.413	-19.045	46.000	9.542	AV
9			1.858	24.671	15.112	-31.329	56.000	9.559	QP
10			1.858	23.691	14.132	-22.309	46.000	9.559	AV
11			3.102	27.480	17.865	-28.520	56.000	9.615	QP
12			3.102	16.895	7.280	-29.105	46.000	9.615	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

7. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with the requirements specified in §15.247 of the FCC Rules and RSS-247 of the ISED rules.

_____ The End _____

Appendix A - Test Setup Photograph

Refer to “2104RSU072-U1-UT” file.

Appendix B - EUT Photograph

Refer to “2104RSU072-U1-UE” file.