

## Appendix A.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

### Band Edge

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.637	-50.26	≤-16.36	PASS
		High	2480	3.957	-48.6	≤-16.04	PASS
3DH5	Ant1	Low	2402	4.582	-49.37	≤-15.42	PASS
		High	2480	5.424	-50.18	≤-14.58	PASS
DH5	Ant1	Hopping	2402	3.139	-49.44	≤-16.86	PASS
		Hopping	2480	2.863	-49.58	≤-17.14	PASS
3DH5	Ant1	Hopping	2402	1.634	-50.08	≤-18.37	PASS
		Hopping	2480	2.329	-47.78	≤-17.67	PASS

DH5\_Ant1\_Low\_2402



DH5\_Ant1\_High\_2480



3DH5\_Ant1\_Low\_2402



3DH5\_Ant1\_High\_2480



DH5\_Ant1\_Hopping\_2402



DH5\_Ant1\_Hopping\_2480



3DH5\_Ant1\_Hopping\_2402

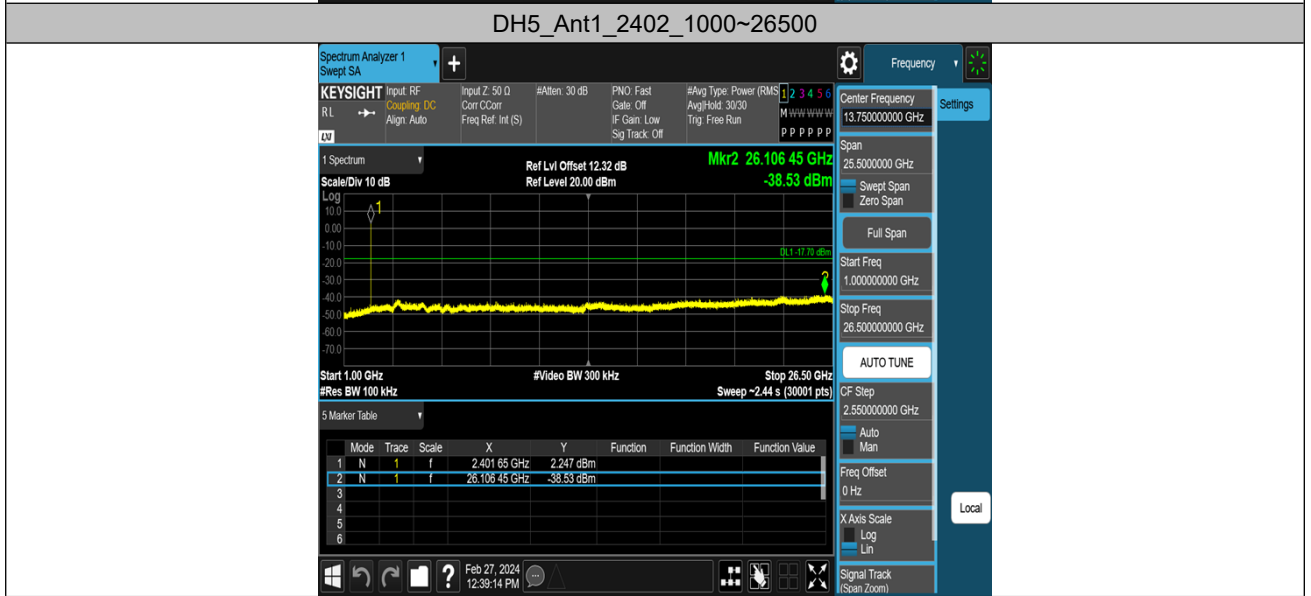
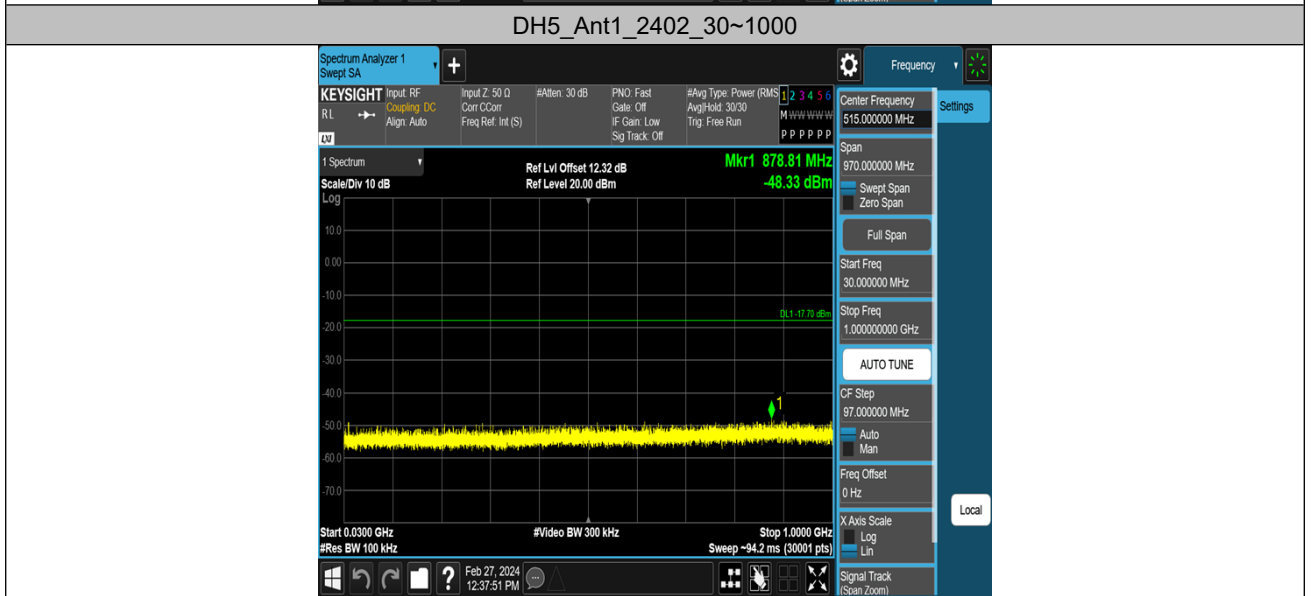
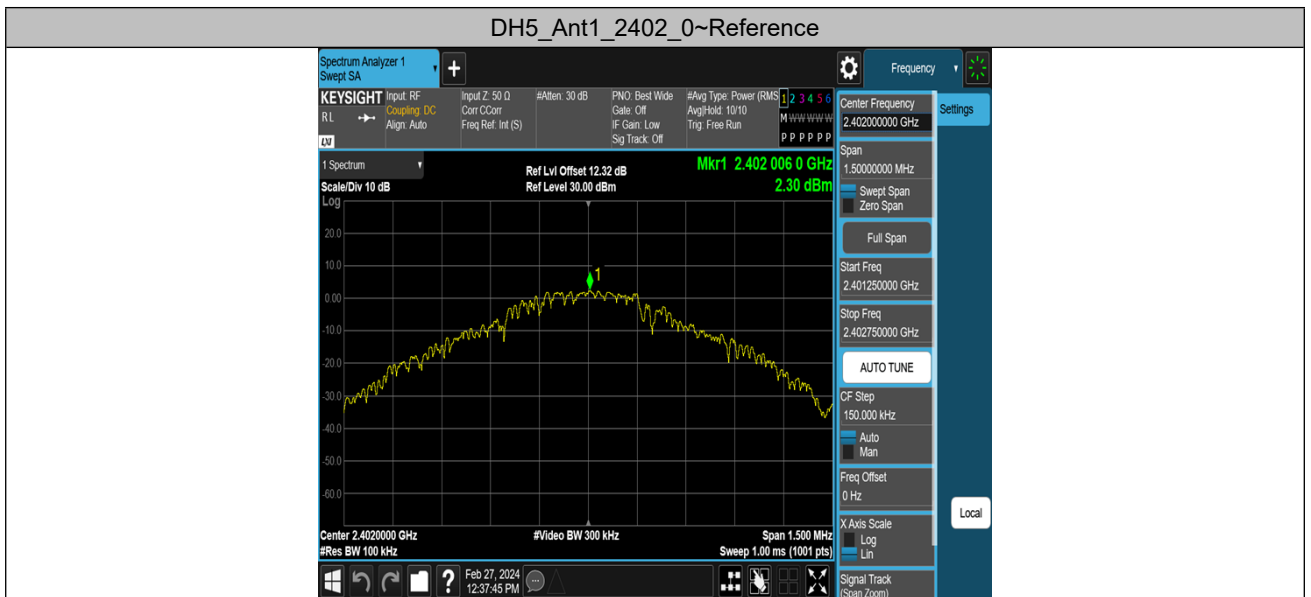


3DH5\_Ant1\_Hopping\_2480

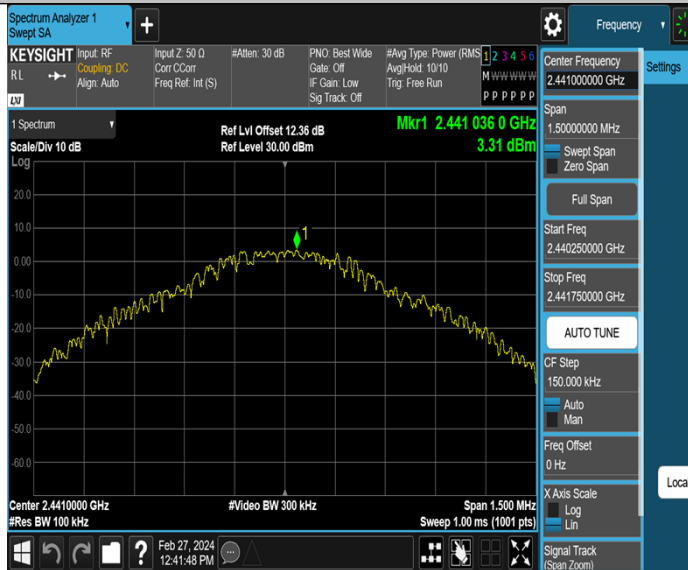


**Conducted Spurious Emission**

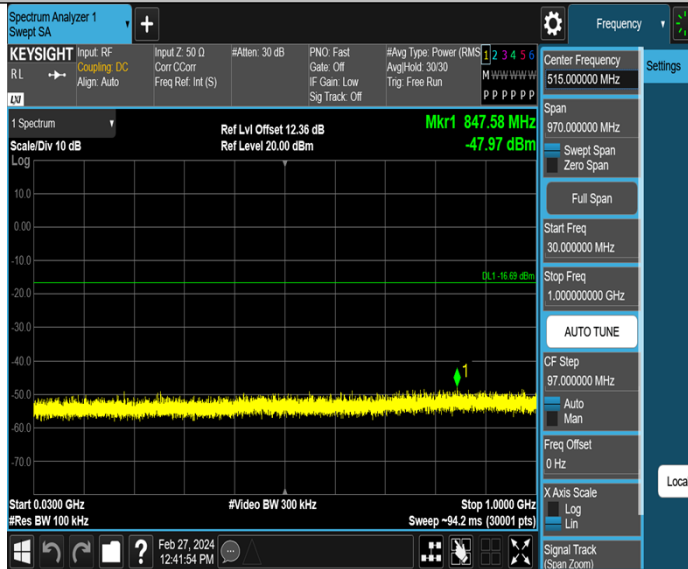
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.30	2.30	---	PASS
			30~1000	2.30	-48.33	≤-17.7	PASS
			1000~26500	2.30	-38.53	≤-17.7	PASS
		2441	Reference	3.31	3.31	---	PASS
			30~1000	3.31	-47.97	≤-16.69	PASS
			1000~26500	3.31	-37.4	≤-16.69	PASS
		2480	Reference	3.76	3.76	---	PASS
			30~1000	3.76	-46.79	≤-16.24	PASS
			1000~26500	3.76	-38.44	≤-16.24	PASS
3DH5	Ant1	2402	Reference	1.52	1.52	---	PASS
			30~1000	1.52	-48.02	≤-18.48	PASS
			1000~26500	1.52	-38.79	≤-18.48	PASS
		2441	Reference	1.41	1.41	---	PASS
			30~1000	1.41	-47.55	≤-18.59	PASS
			1000~26500	1.41	-38.43	≤-18.59	PASS
		2480	Reference	2.16	2.16	---	PASS
			30~1000	2.16	-47.15	≤-17.84	PASS
			1000~26500	2.16	-38.3	≤-17.84	PASS



DH5\_Ant1\_2441\_0~Reference



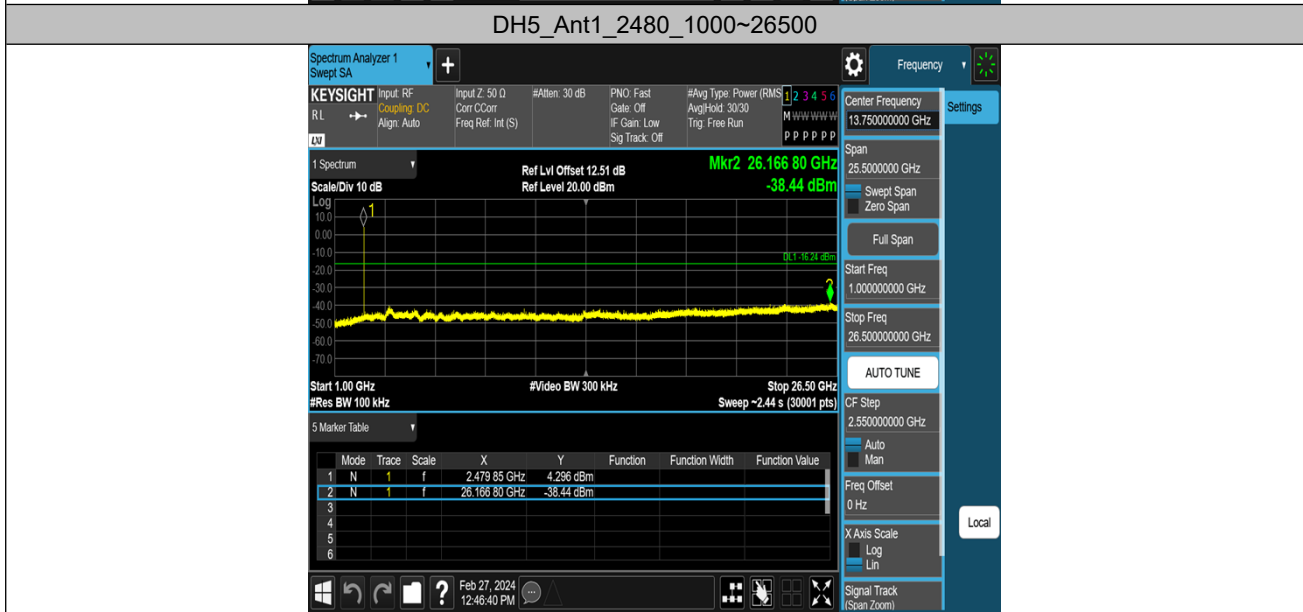
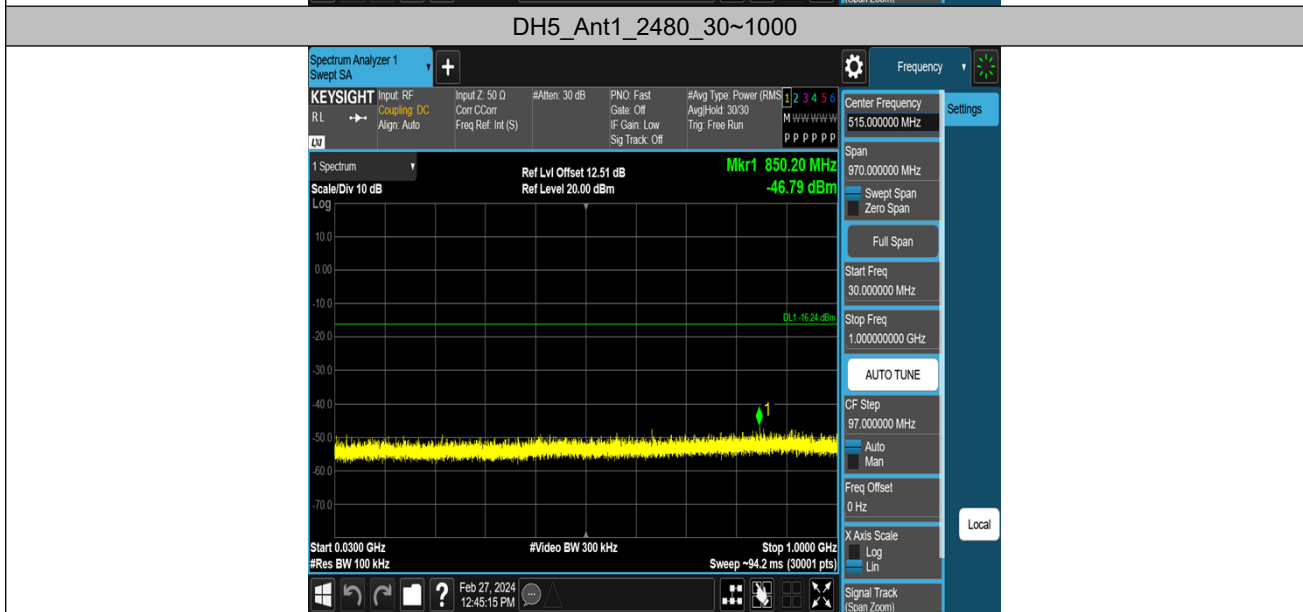
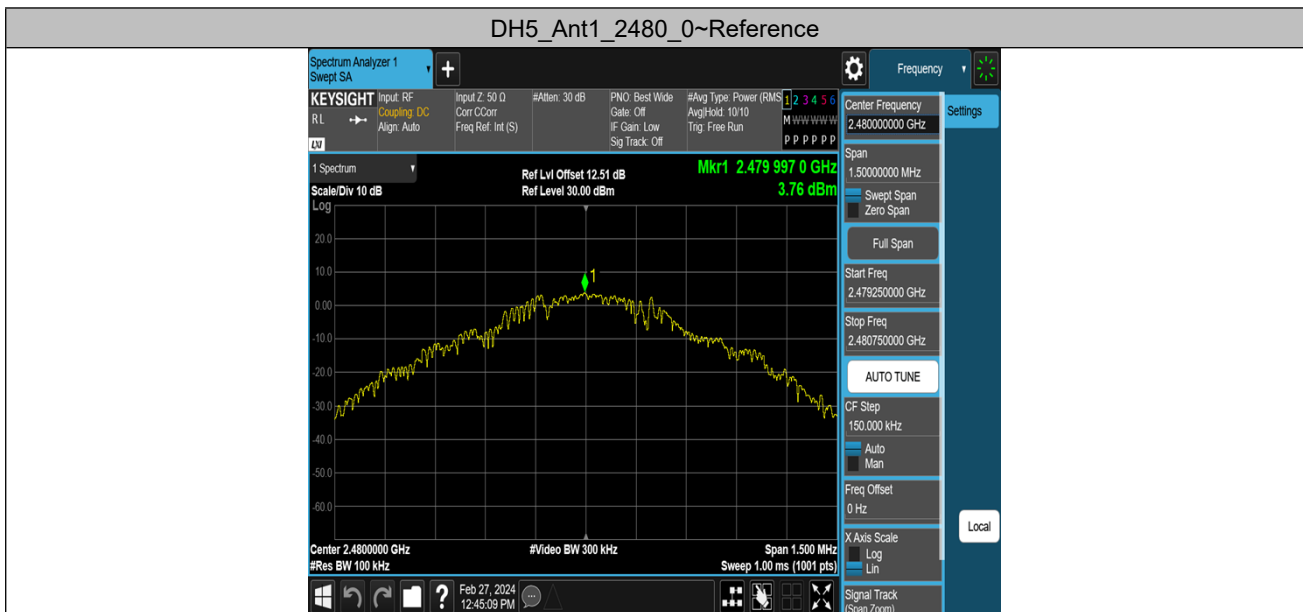
DH5\_Ant1\_2441\_30~1000



DH5\_Ant1\_2441\_1000~26500







3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000



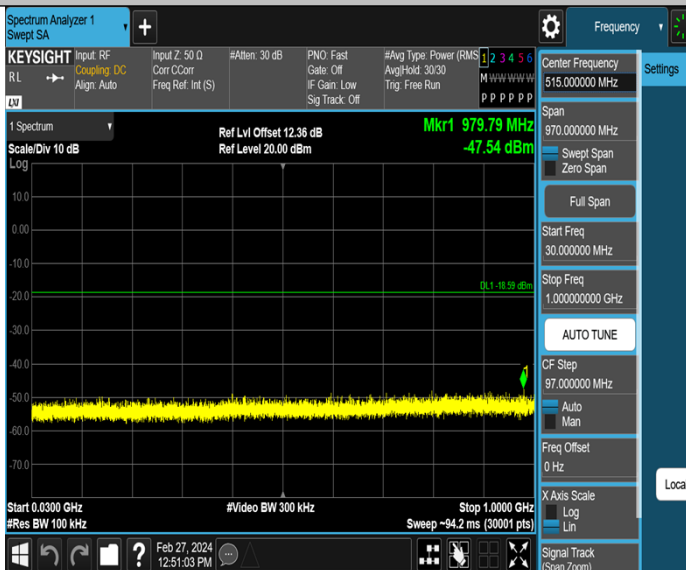
3DH5\_Ant1\_2402\_1000~26500



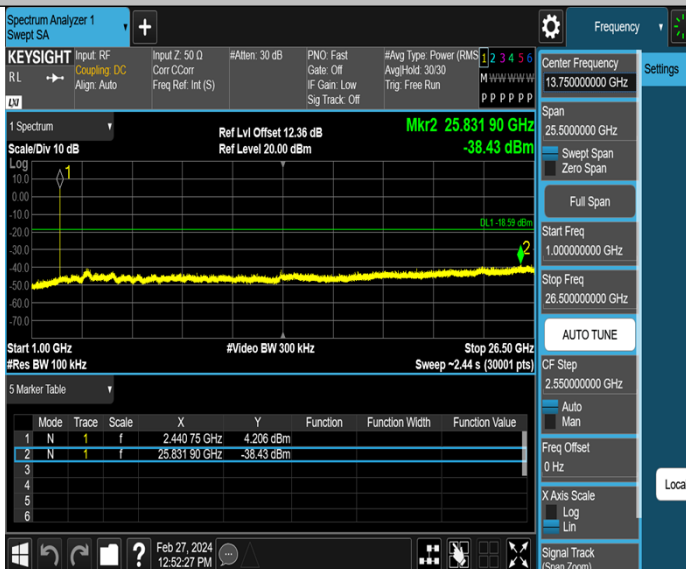
3DH5\_Ant1\_2441\_0~Reference



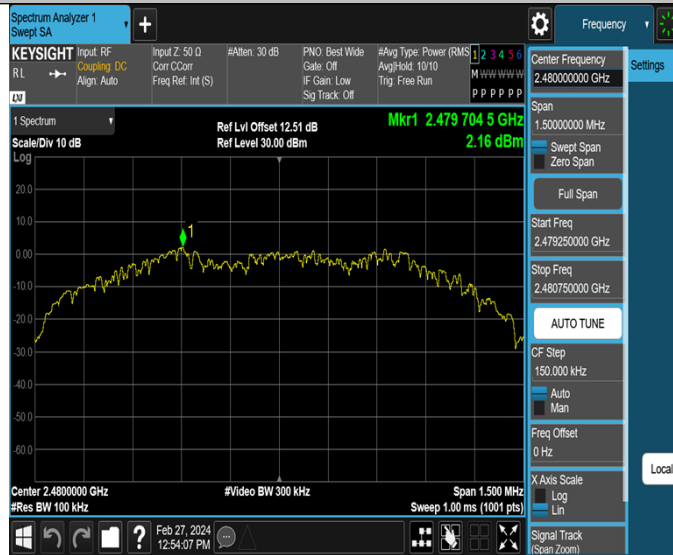
3DH5\_Ant1\_2441\_30~1000



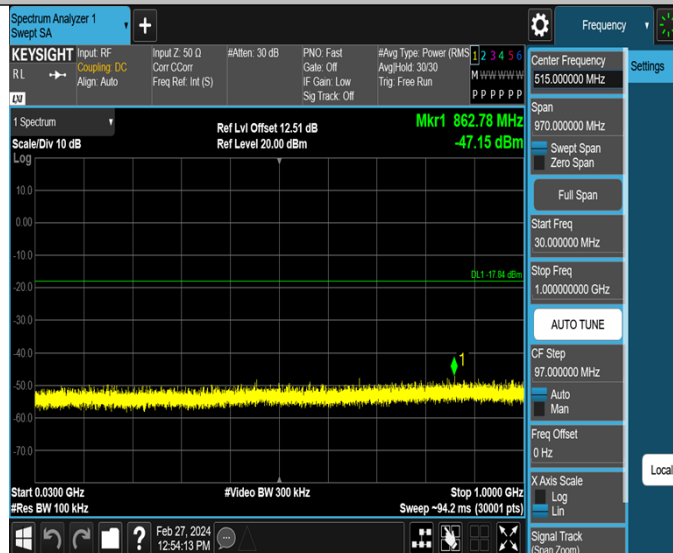
3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference



3DH5\_Ant1\_2480\_30~1000



3DH5\_Ant1\_2480\_1000~26500



## Appendix A.7: Test Results of Radiated Spurious Emissions

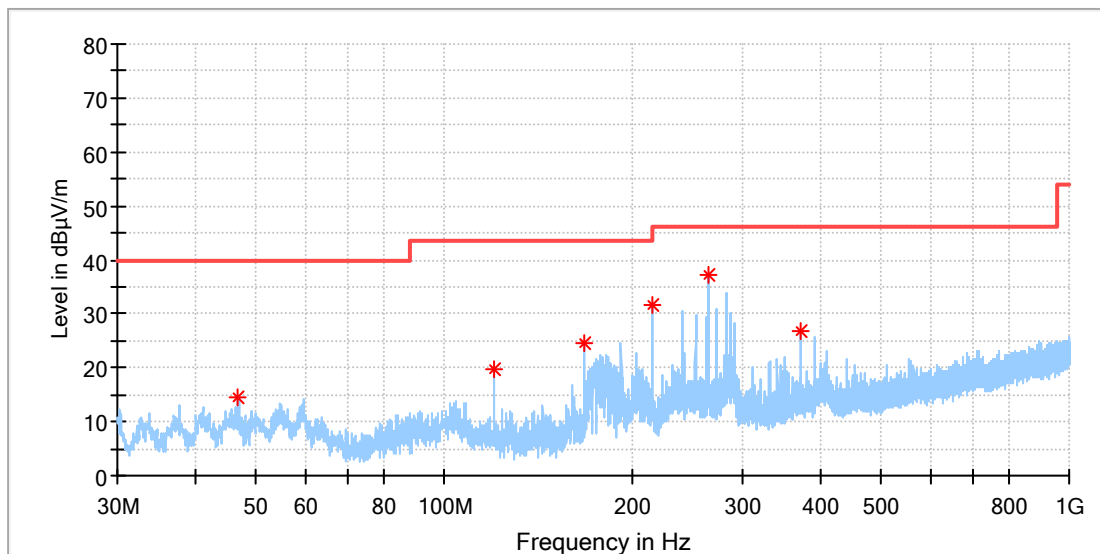
Note:

- 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.

### 30 MHz - 1GHz

### EUT Information

EUT Name:	Lawn Mowing Robot
Model:	MPB14
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168459797/A003634855-001
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

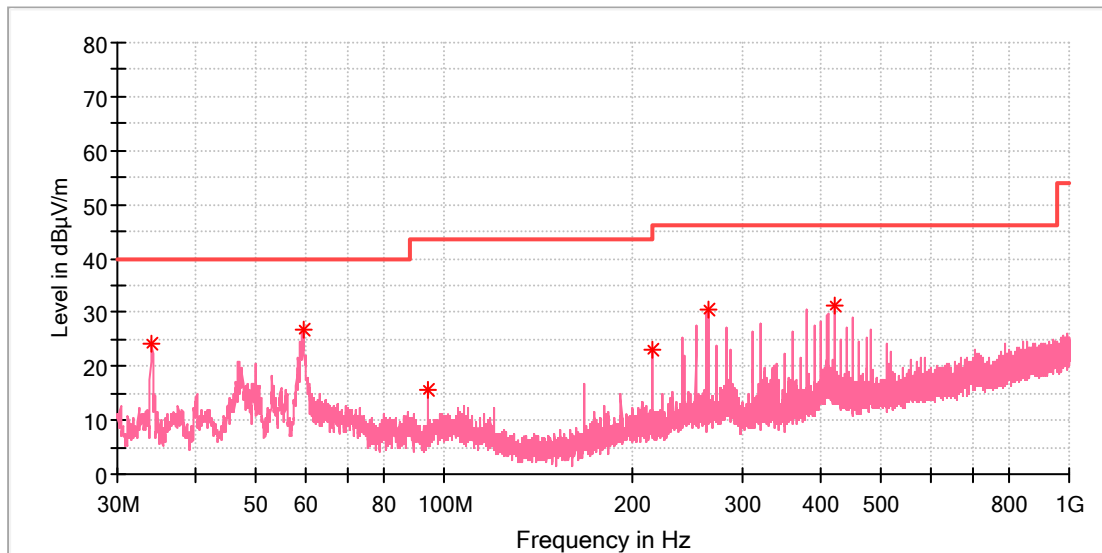
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.863077	14.41	40.00	25.59	100.0	H	138.0	-18.9
119.986154	19.59	43.50	23.91	100.0	H	198.0	-21.1
168.001154	24.55	43.50	18.95	100.0	H	0.0	-21.7
216.016154	31.57	46.00	14.43	100.0	H	36.0	-19.0
263.993846	37.05	46.00	8.95	100.0	H	214.0	-17.4
371.253462	26.66	46.00	19.34	100.0	H	145.0	-14.7

### 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:	Lawn Mowing Robot
Model:	MPB14
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168459797/A003634855-001
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
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)
34.029231	24.34	40.00	15.66	100.0	V	93.0	-22.6
59.622308	26.87	40.00	13.13	100.0	V	174.0	-19.2
94.057308	15.76	43.50	27.74	100.0	V	287.0	-20.3
216.016154	23.24	46.00	22.76	100.0	V	227.0	-19.0
263.993846	30.55	46.00	15.45	100.0	V	271.0	-17.4
420.760769	31.34	46.00	14.66	100.0	V	263.0	-13.7

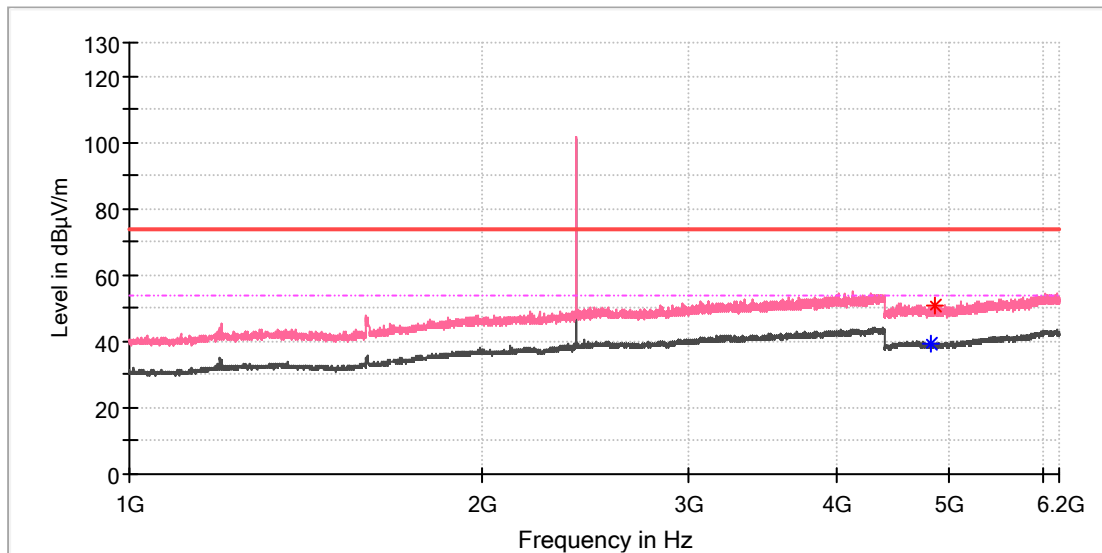
### Final Result

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: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_Low channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 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)
4816.000000	---	39.29	54.00	14.71	150.0	V	195.0	11.8
4850.000000	50.82	---	74.00	23.18	150.0	V	276.0	11.8

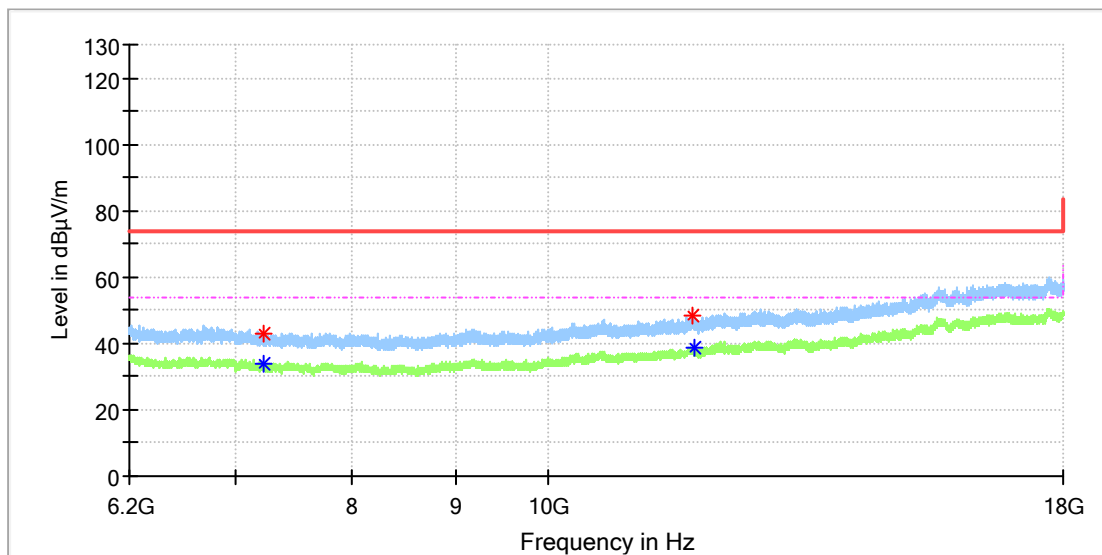
### Final Result

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

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_Low channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

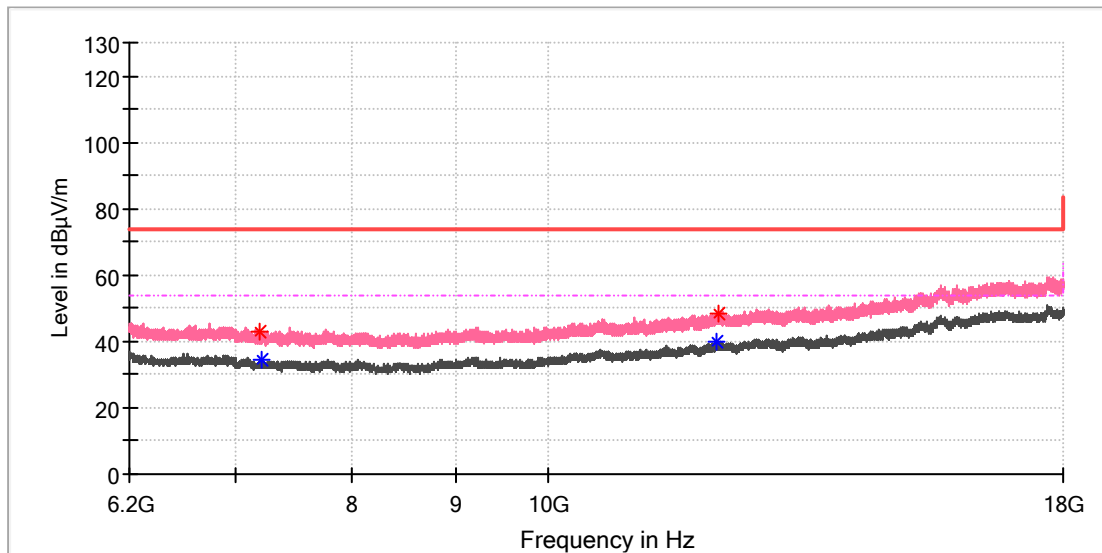
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7219.716667	43.04	---	74.00	30.96	150.0	H	324.0	8.7
7220.208333	---	34.06	54.00	19.94	150.0	H	0.0	8.7
11798.608333	48.10	---	74.00	25.90	150.0	H	24.0	13.4
11822.208333	---	38.83	54.00	15.17	150.0	H	155.0	13.5

### Final Result

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

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_Low channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

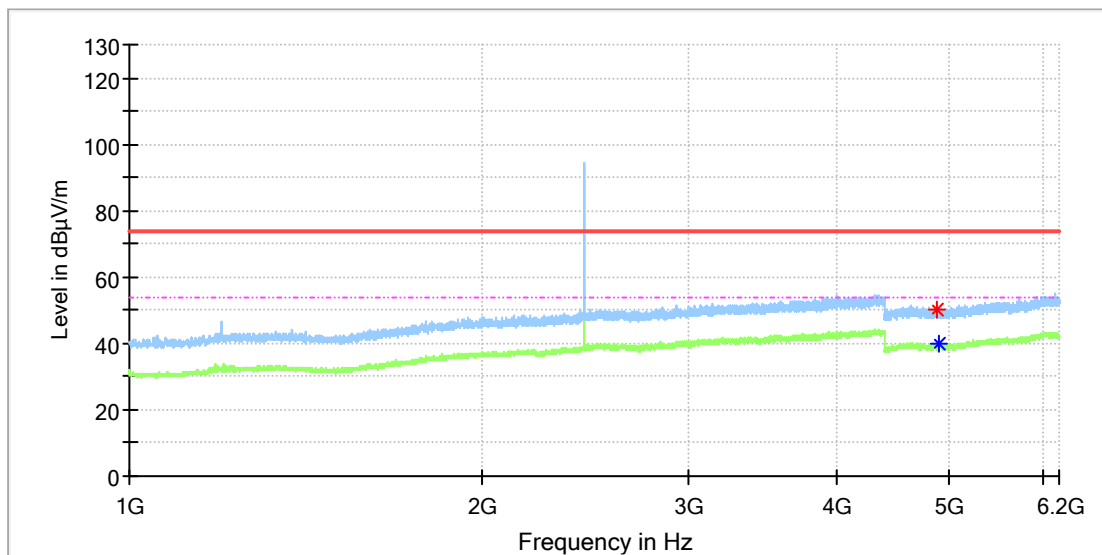
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7199.066667	43.17	---	74.00	30.83	150.0	V	0.0	8.8
7213.816667	---	34.22	54.00	19.78	150.0	V	0.0	8.7
12105.900000	---	39.67	54.00	14.33	150.0	V	142.0	14.2
12154.575000	48.35	---	74.00	25.65	150.0	V	295.0	14.4

### Final Result

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

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_Mid channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

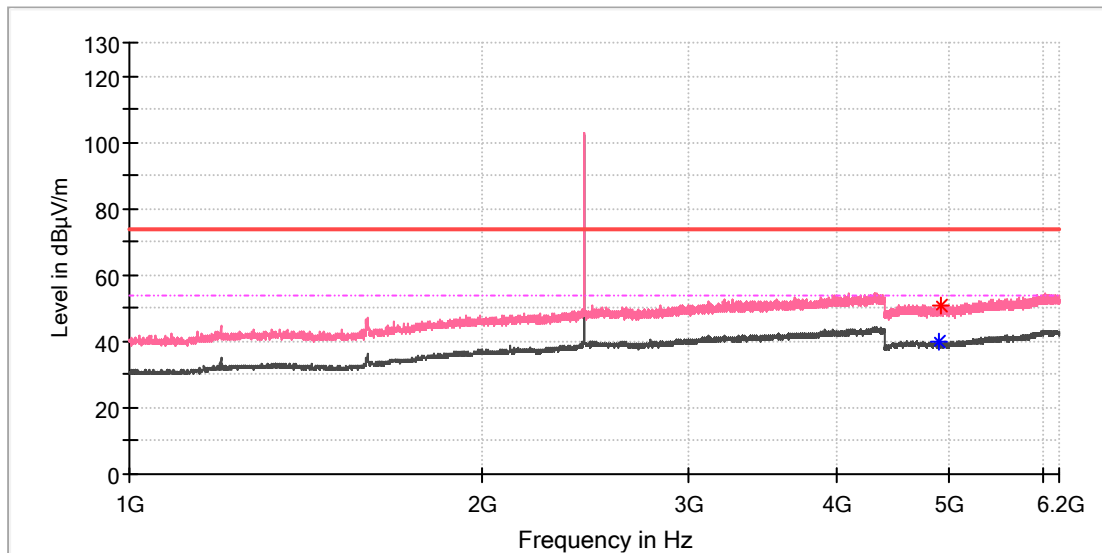
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4875.500000	50.34	---	74.00	23.66	150.0	H	237.0	11.8
4904.500000	---	39.78	54.00	14.22	150.0	H	23.0	11.8

### Final Result

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

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_Mid channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

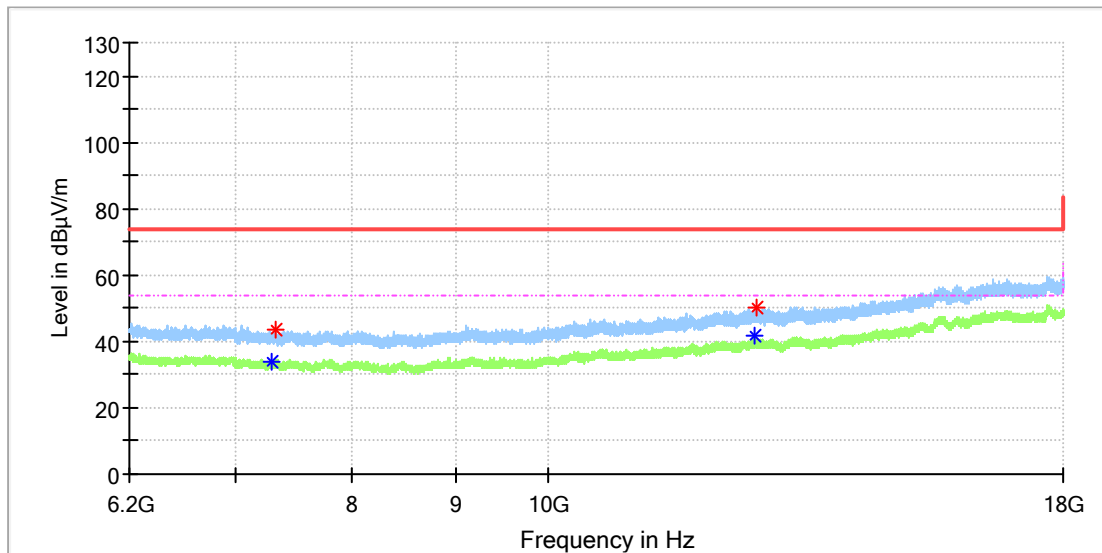
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4903.500000	---	39.70	54.00	14.30	150.0	V	108.0	11.8
4917.500000	50.62	---	74.00	23.38	150.0	V	89.0	11.8

### Final Result

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

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_Mid channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

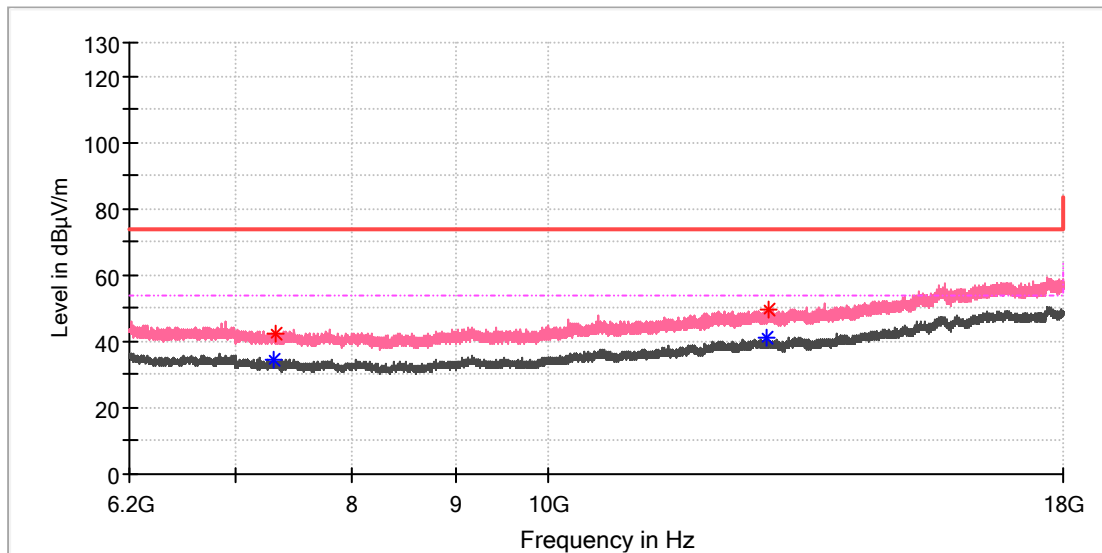
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7296.908333	---	34.10	54.00	19.90	150.0	H	206.0	8.3
7334.275000	43.63	---	74.00	30.37	150.0	H	262.0	8.1
12656.075000	---	41.42	54.00	12.58	150.0	H	237.0	15.0
12685.575000	50.15	---	74.00	23.85	150.0	H	336.0	15.1

### Final Result

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

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_Mid channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

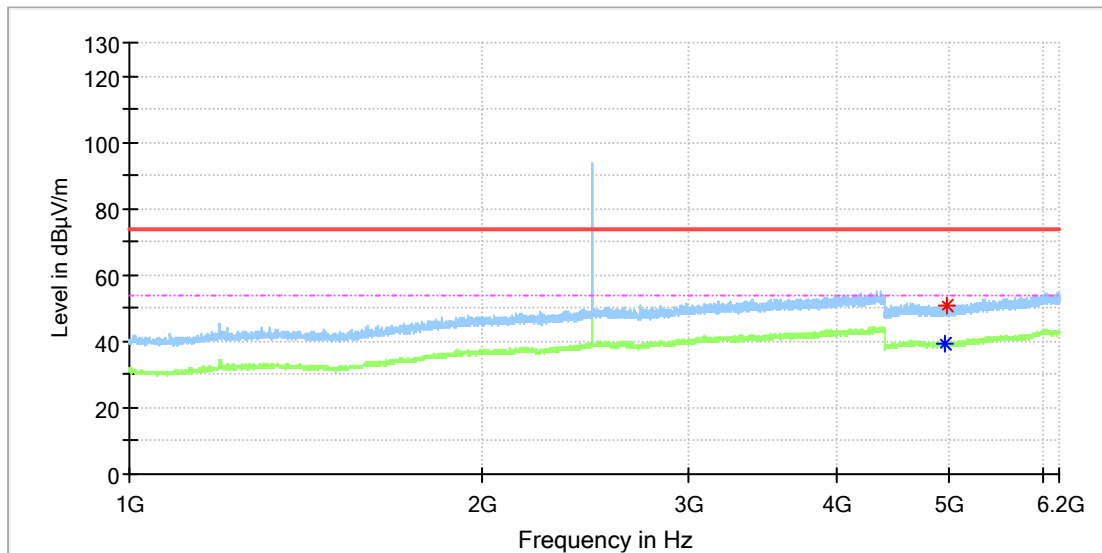
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7305.266667	---	34.44	54.00	19.56	150.0	V	130.0	8.3
7327.883333	42.57	---	74.00	31.43	150.0	V	225.0	8.1
12844.875000	---	41.04	54.00	12.96	150.0	V	179.0	15.3
12851.266667	49.44	---	74.00	24.56	150.0	V	32.0	15.4

### Final Result

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

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

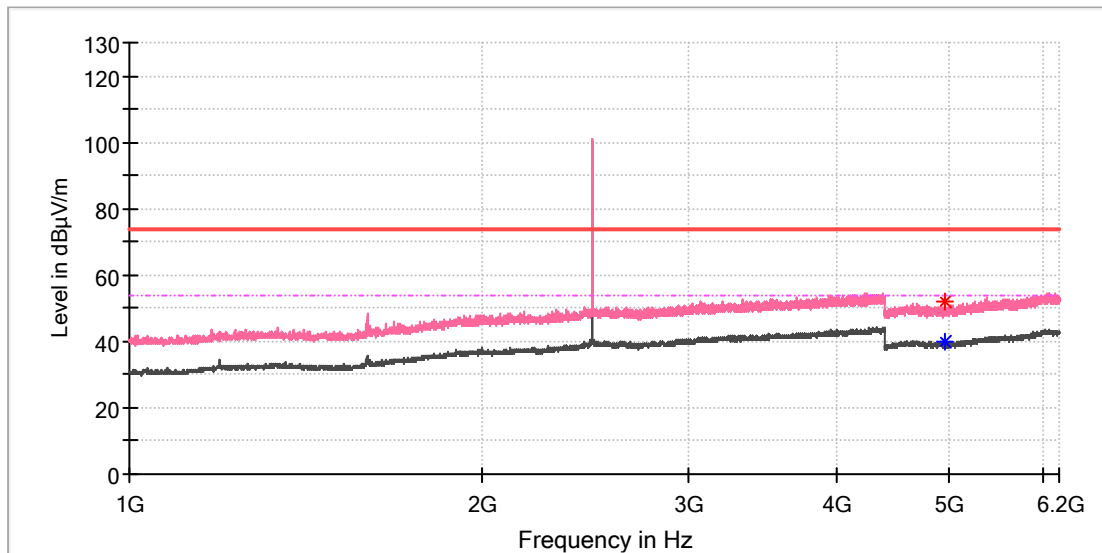
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	---	39.60	54.00	14.40	150.0	H	185.0	11.8
4966.500000	50.82	---	74.00	23.18	150.0	H	103.0	11.8

### Final Result

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

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 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)
4955.000000	51.96	---	74.00	22.04	150.0	V	0.0	11.8
4961.000000	---	39.97	54.00	14.03	150.0	V	240.0	11.8

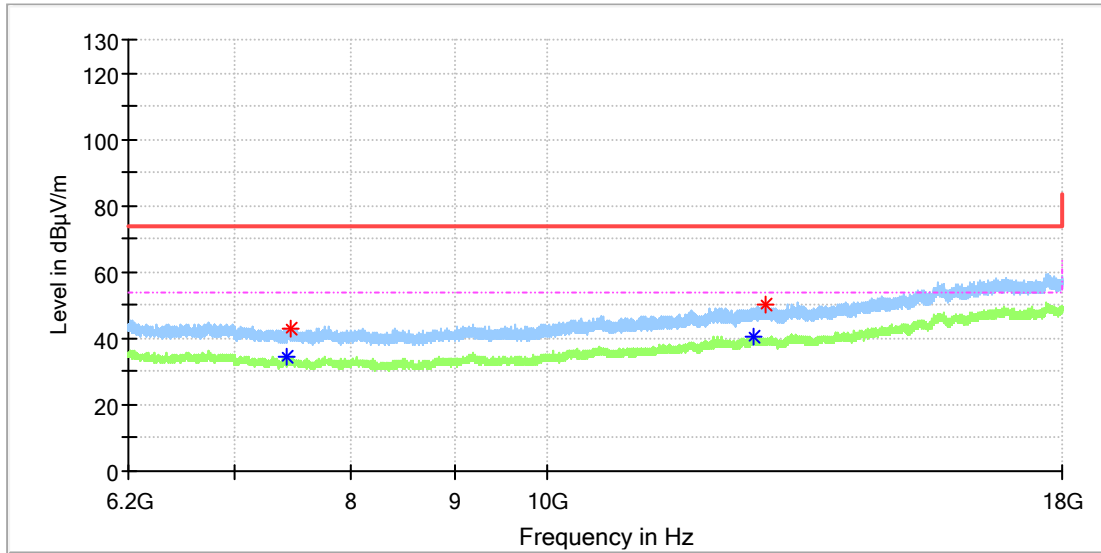
### Final Result

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



### EUT Information

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

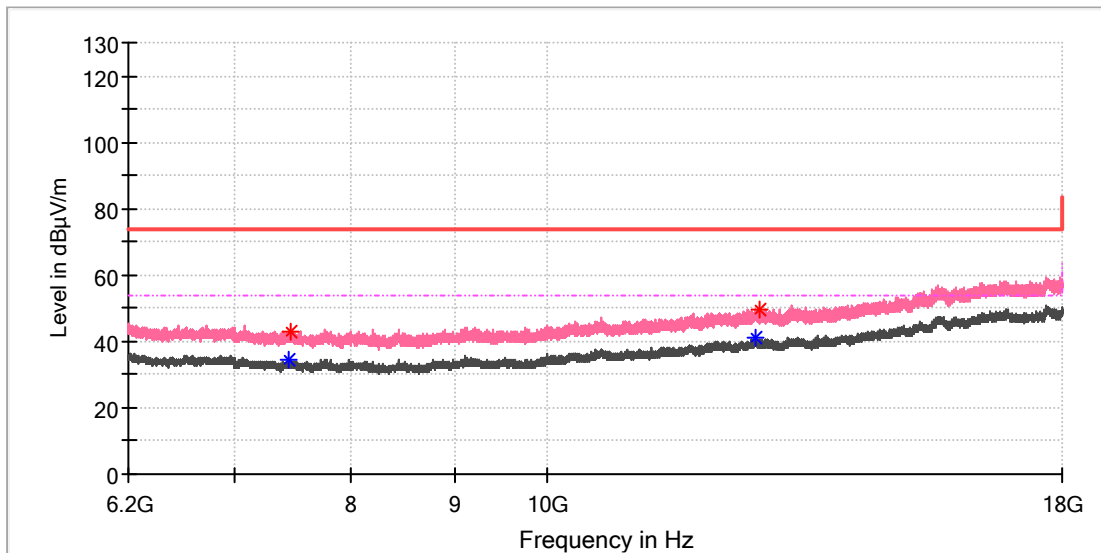
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7435.558333	---	34.69	54.00	19.31	150.0	H	165.0	8.4
7463.583333	42.98	---	74.00	31.02	150.0	H	105.0	8.6
12653.616667	---	40.70	54.00	13.30	150.0	H	250.0	15.0
12818.816667	50.46	---	74.00	23.54	150.0	H	275.0	15.3

### Final Result

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

### EUT Information

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 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)
7443.425000	---	34.60	54.00	19.40	150.0	V	110.0	8.5
7455.225000	43.02	---	74.00	30.98	150.0	V	87.0	8.5
12690.000000	---	40.97	54.00	13.03	150.0	V	51.0	15.1
12756.375000	49.53	---	74.00	24.47	150.0	V	251.0	15.2

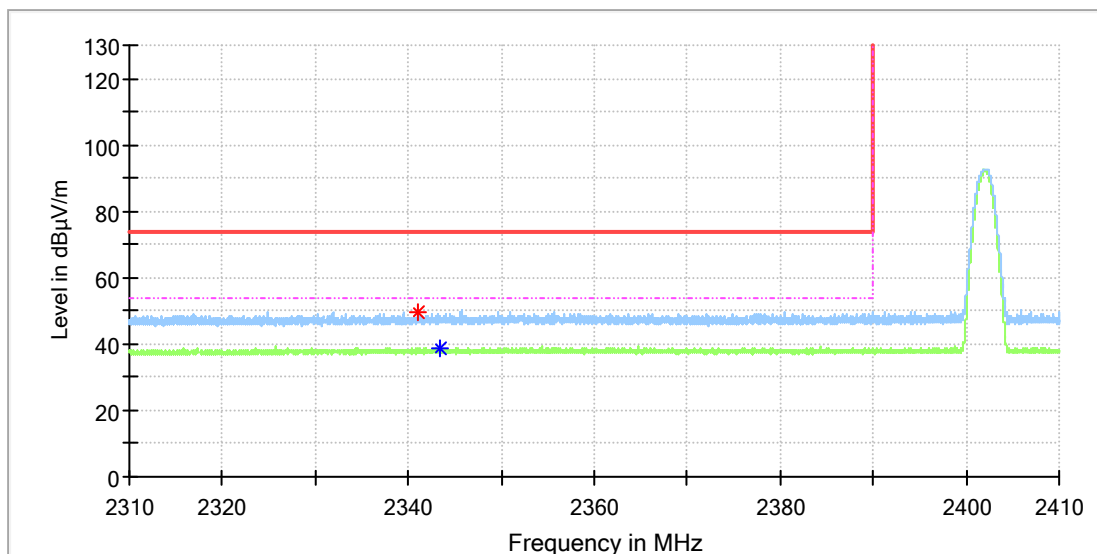
### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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## Appendix A.8: Test Results of Radiated Emissions in Restricted Bands

### EUT Information

EUT Name:	Lawn Mowing Robot
Model:	MPB14
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168459797/A003634855-001
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
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)
2341.117647	49.67	---	74.00	24.33	150.0	H	108.0	6.8
2343.308824	---	38.88	54.00	15.12	150.0	H	4.0	6.8

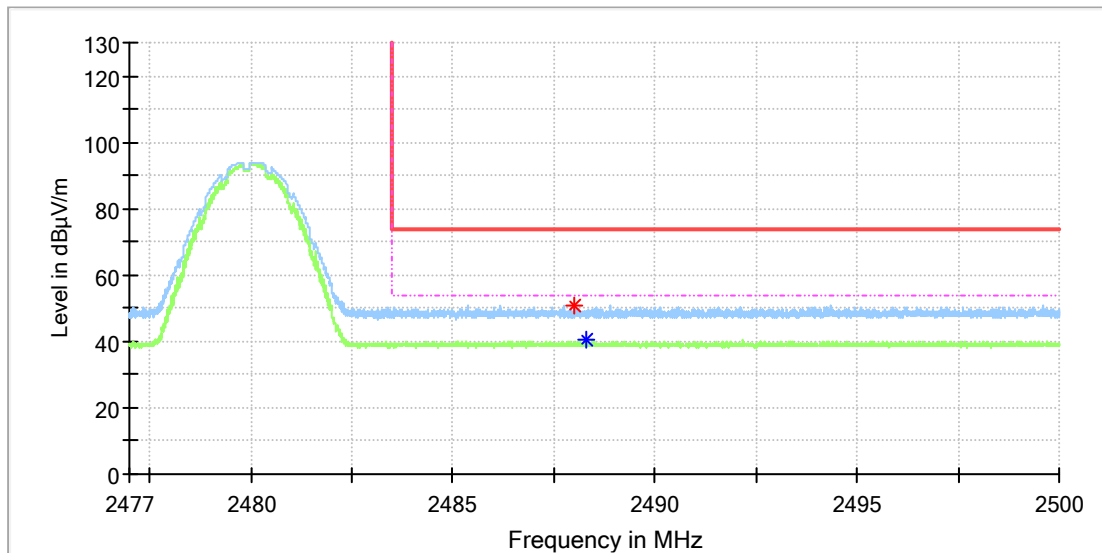
### Final Result

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



### EUT Information

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

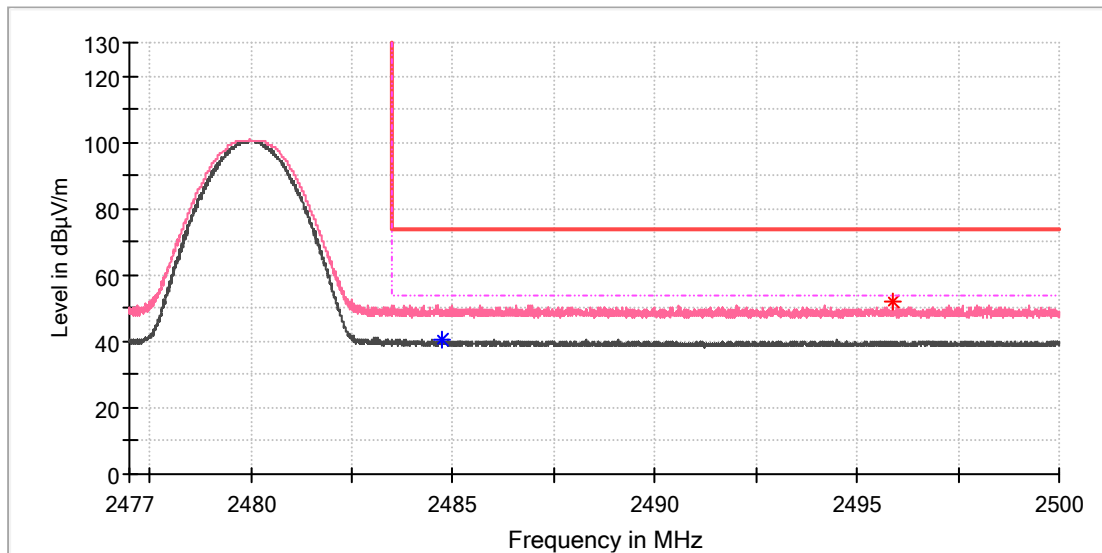
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2488.013235	50.99	---	74.00	23.01	150.0	H	237.0	7.4
2488.317647	---	40.23	54.00	13.77	150.0	H	172.0	7.4

### Final Result

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

EUT Name: Lawn Mowing Robot  
 Model: MPB14  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168459797/A003634855-001  
 Test Voltage: Battery  
 Remark: Temp 24 Humi:50%  
 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)
2484.739706	---	40.43	54.00	13.57	150.0	V	346.0	7.4
2495.875000	51.94	---	74.00	22.06	150.0	V	205.0	7.4

### Final Result

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