



3DH5 Ant1 High 2480



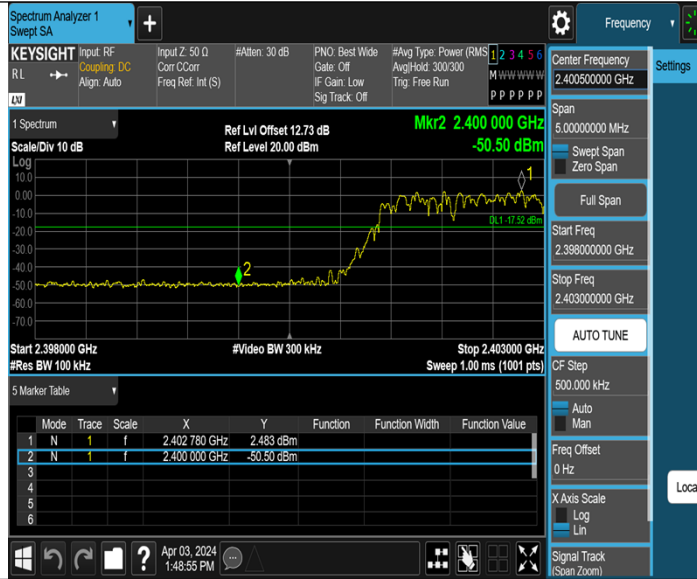
DH5 Ant1 Hopping 2402



DH5 Ant1 Hopping 2480



3DH5 Ant1 Hopping 2402



3DH5\_Ant1\_Hopping\_2480



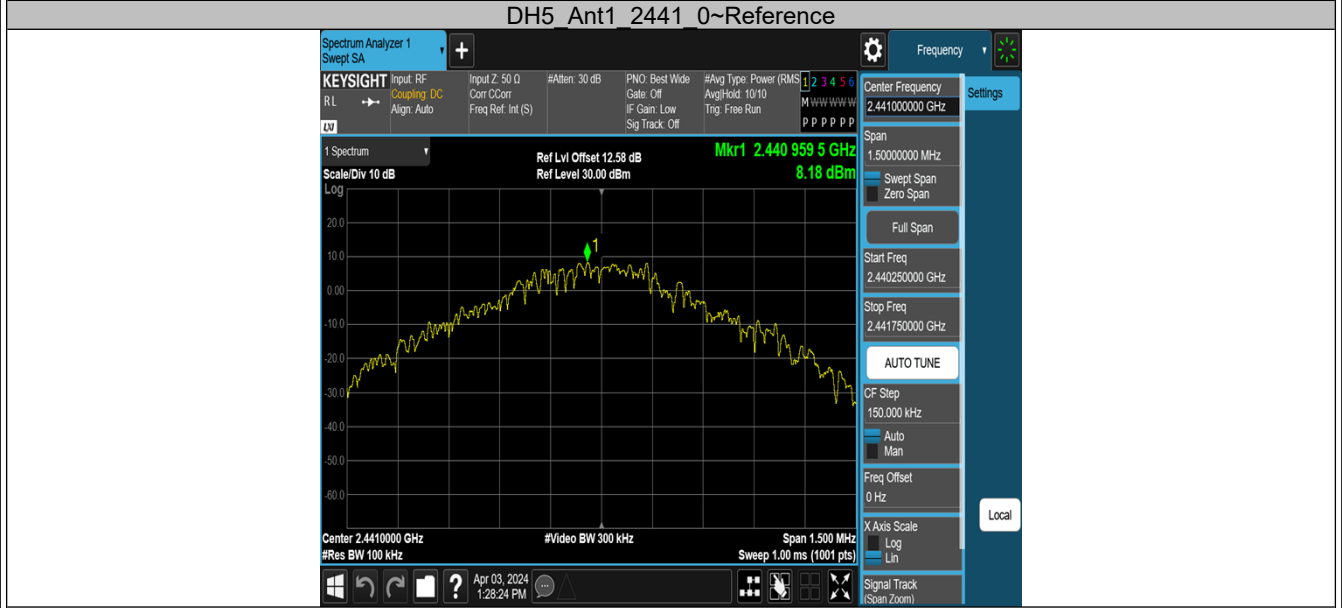
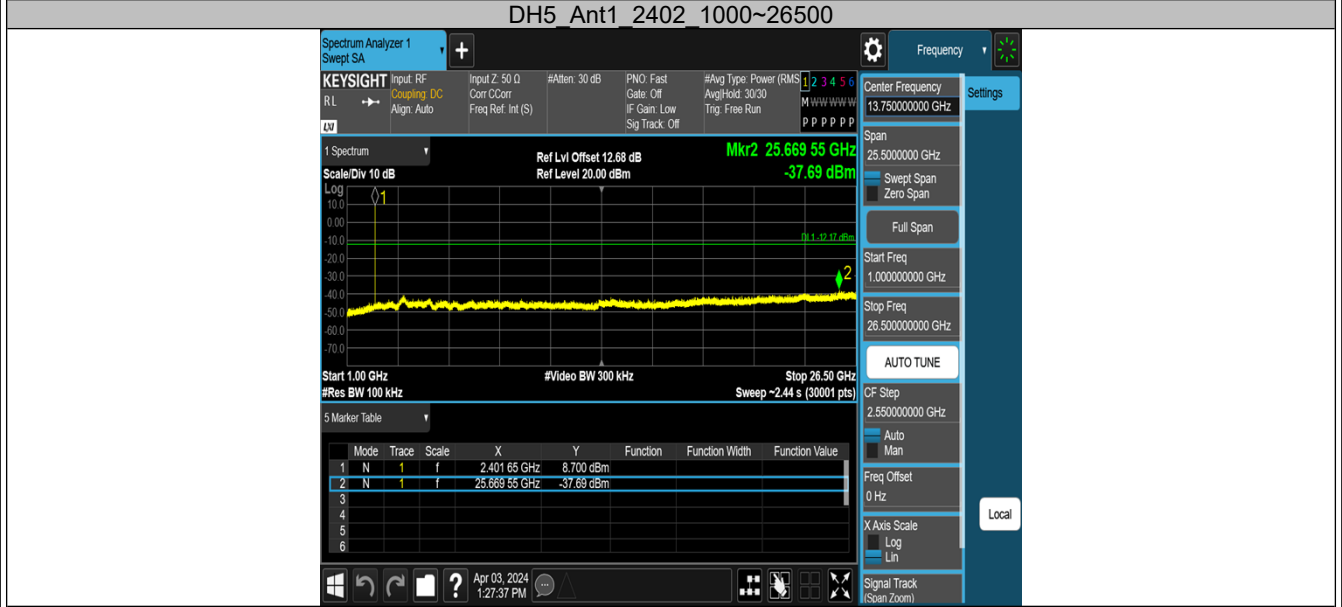
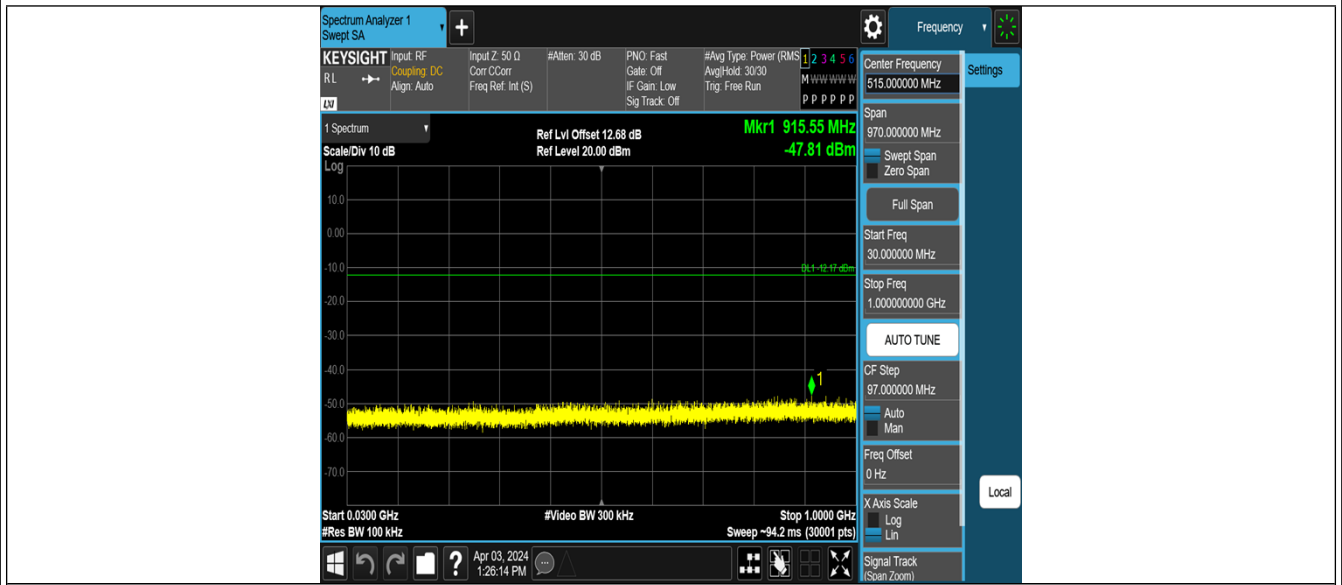
Conducted Spurious Emission

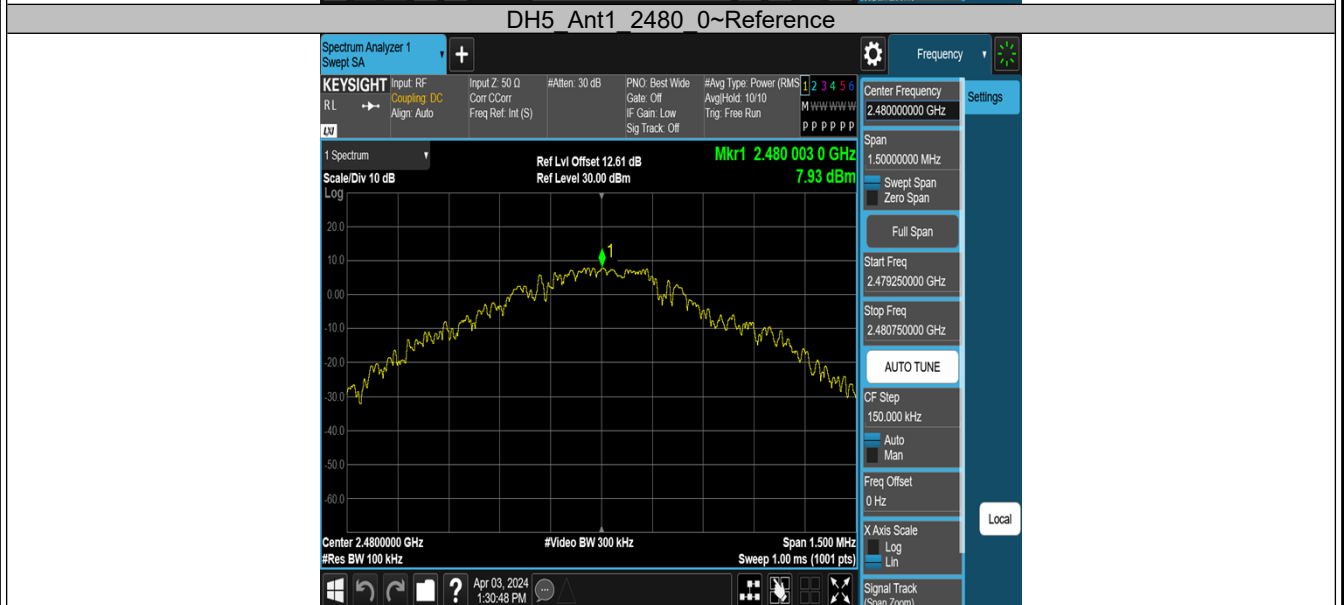
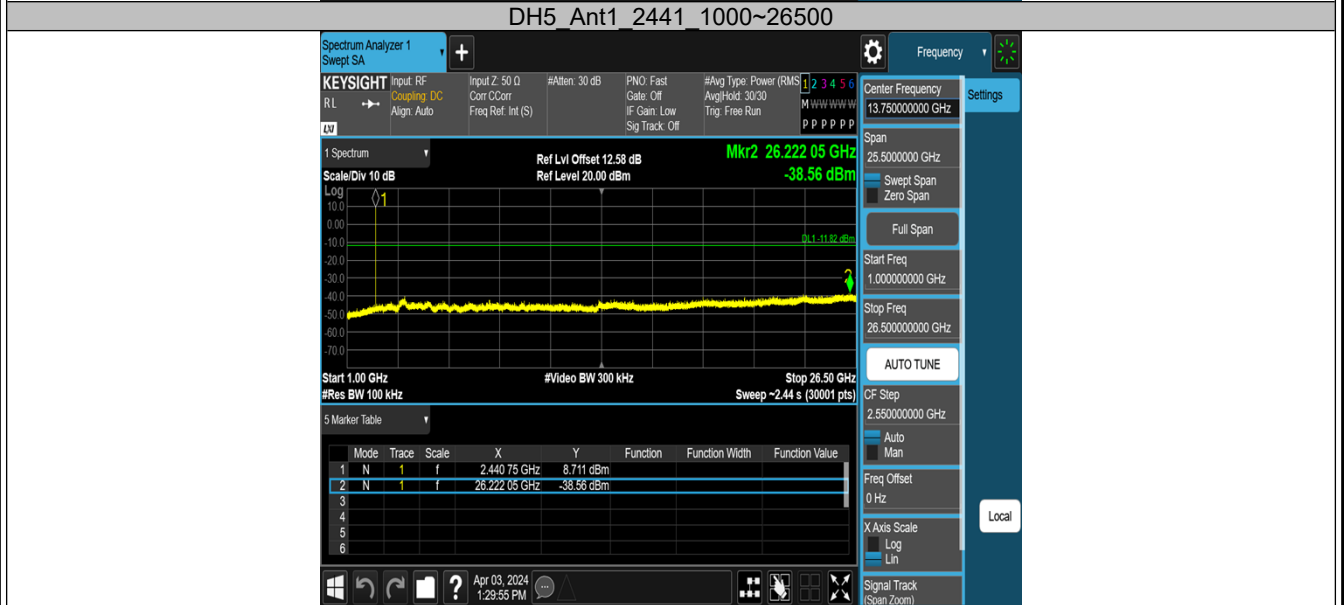
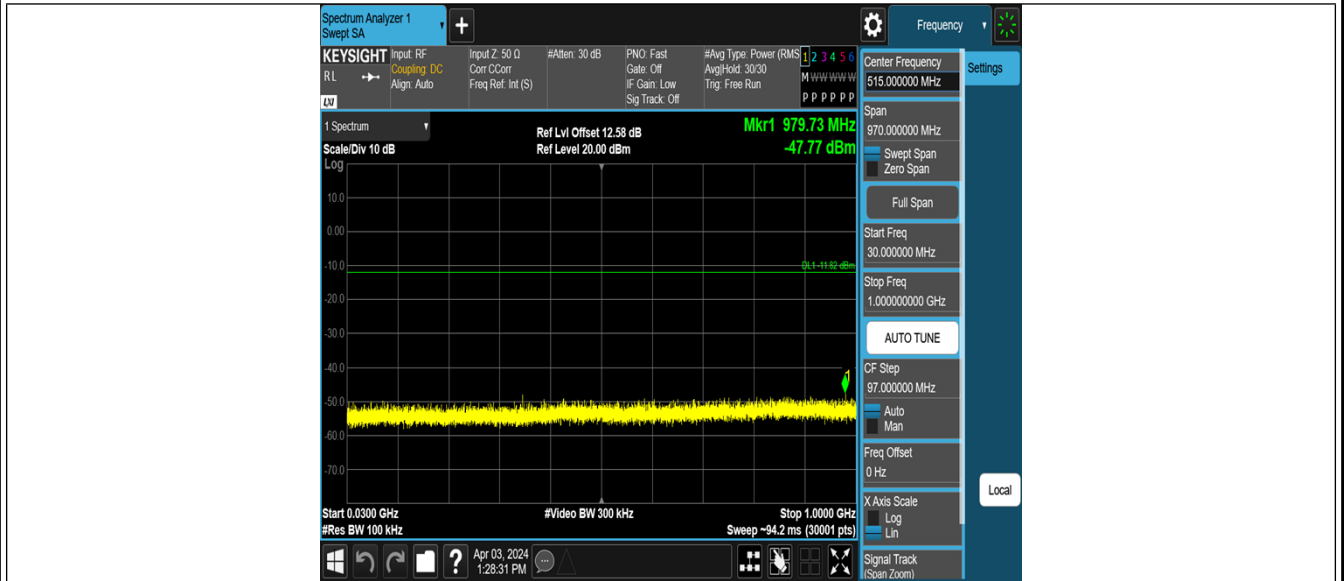
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.83	7.83	---	PASS
			30~1000	7.83	-47.81	≤-12.17	PASS
			1000~26500	7.83	-37.69	≤-12.17	PASS
		2441	Reference	8.18	8.18	---	PASS
			30~1000	8.18	-47.77	≤-11.82	PASS
			1000~26500	8.18	-38.56	≤-11.82	PASS
		2480	Reference	7.93	7.93	---	PASS
			30~1000	7.93	-48.13	≤-12.07	PASS
			1000~26500	7.93	-38.39	≤-12.07	PASS
3DH5	Ant1	2402	Reference	3.53	3.53	---	PASS
			30~1000	3.53	-47.44	≤-16.47	PASS
			1000~26500	3.53	-38.12	≤-16.47	PASS
		2441	Reference	3.93	3.93	---	PASS
			30~1000	3.93	-47.03	≤-16.07	PASS
			1000~26500	3.93	-37.36	≤-16.07	PASS
		2480	Reference	3.05	3.05	---	PASS
			30~1000	3.05	-46.9	≤-16.95	PASS
			1000~26500	3.05	-38.19	≤-16.95	PASS

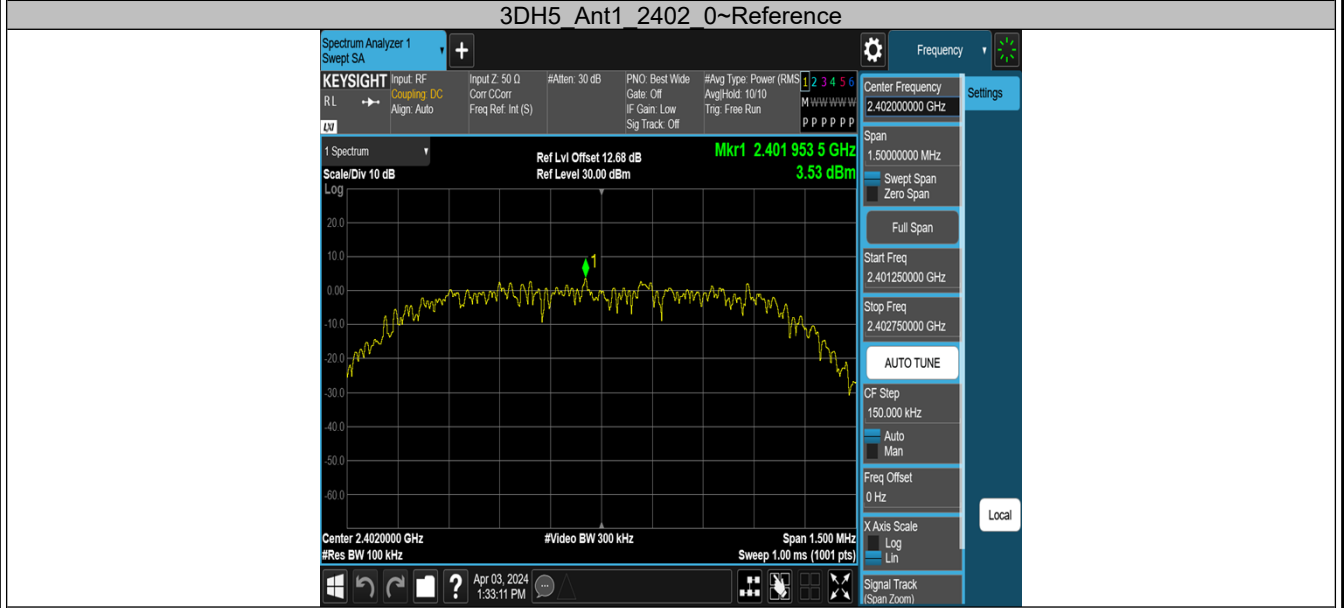
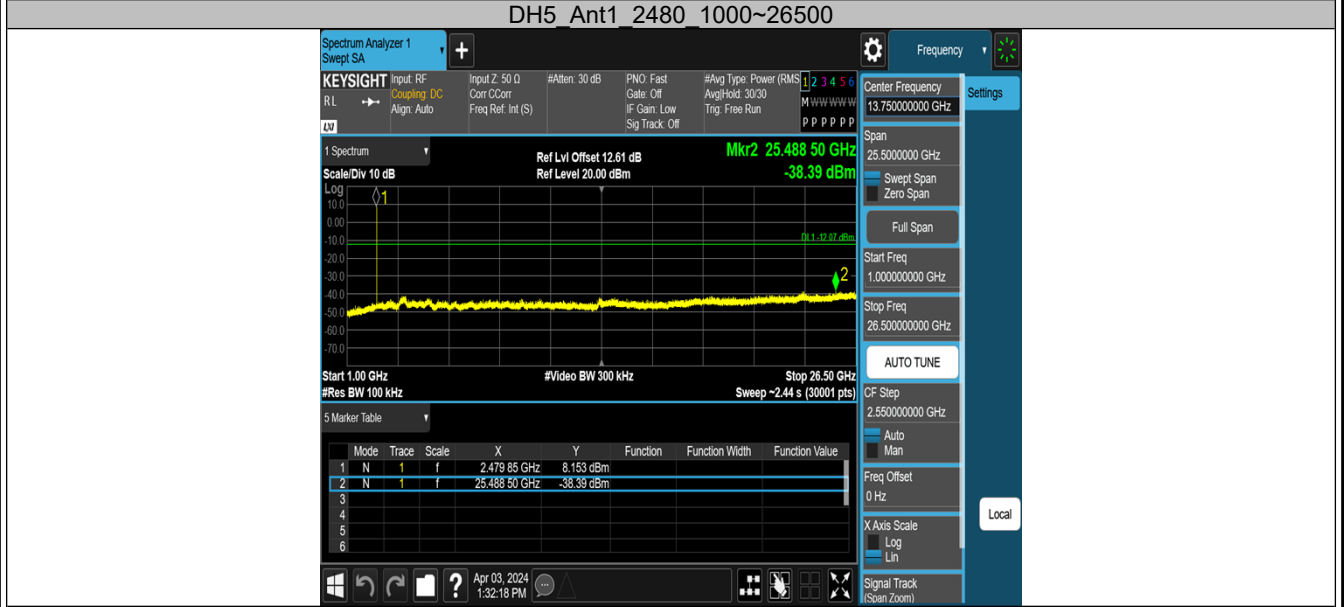
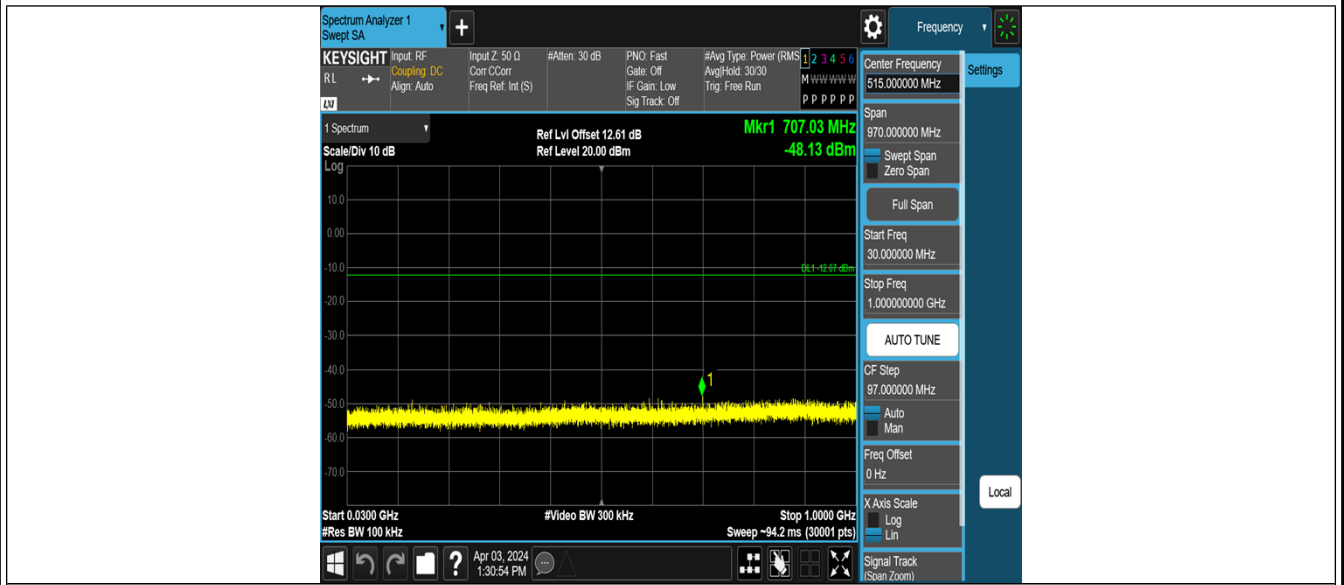
DH5\_Ant1\_2402\_0-Reference



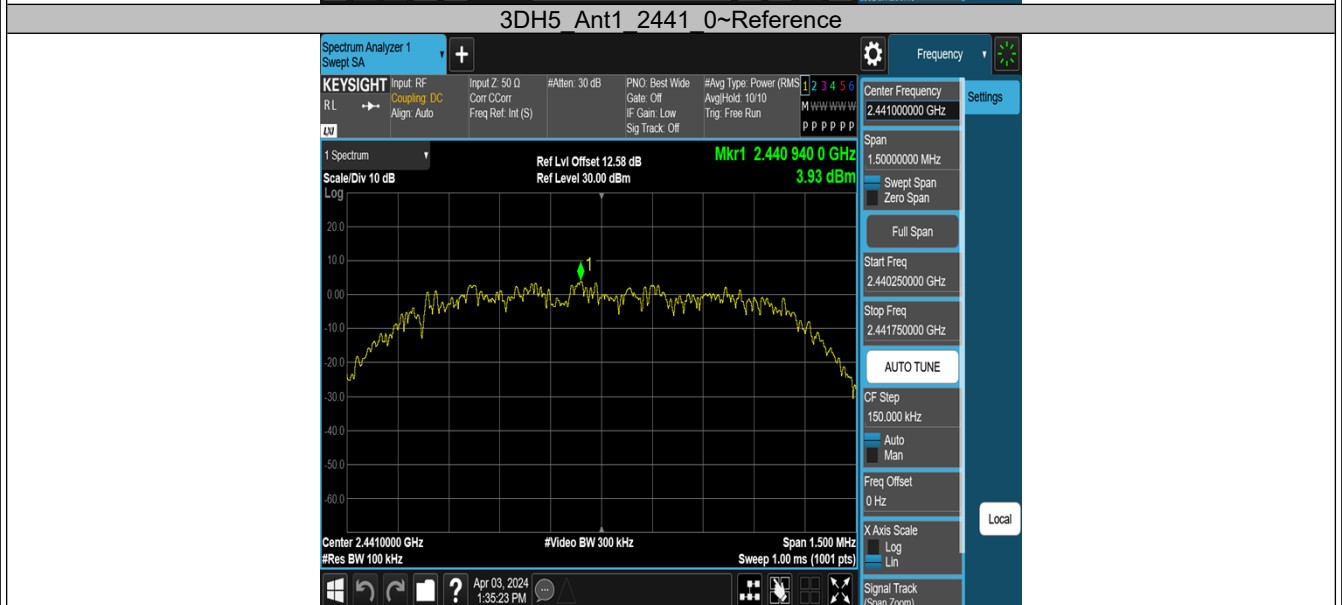
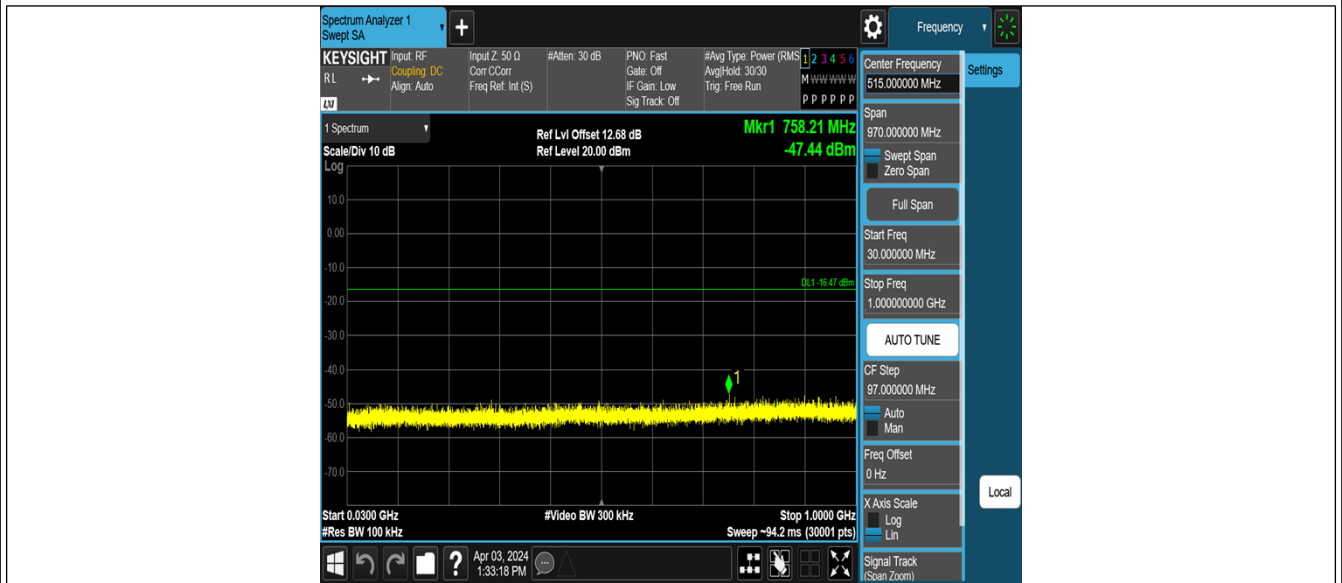
DH5\_Ant1\_2402\_30~1000



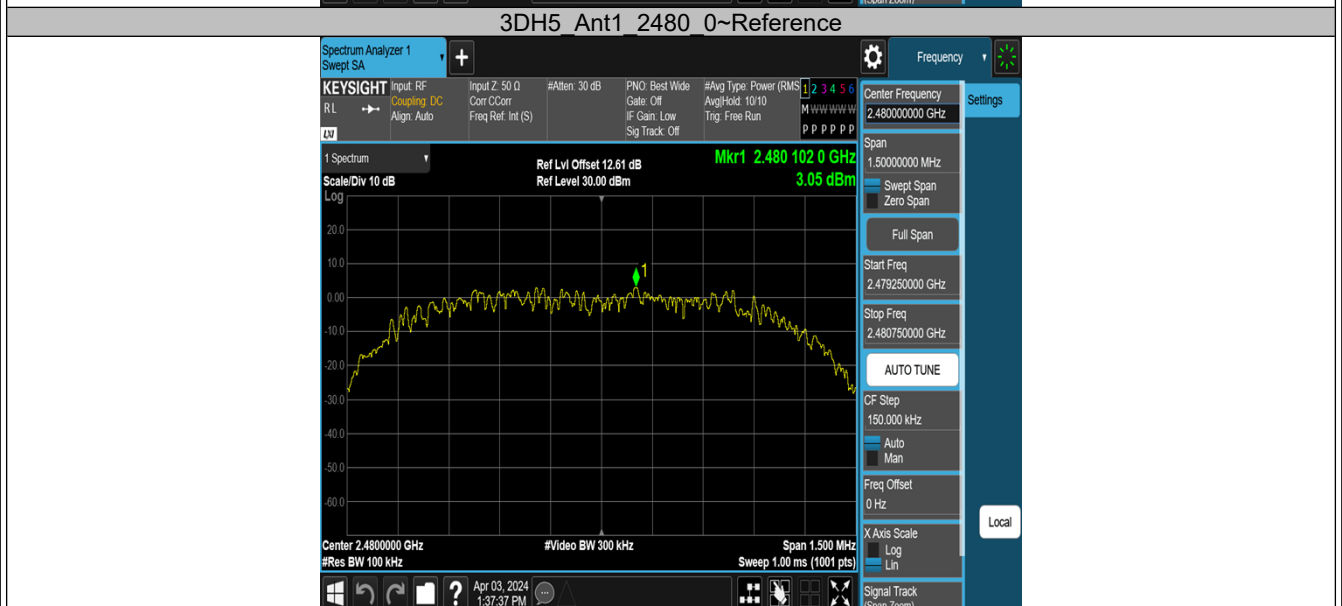
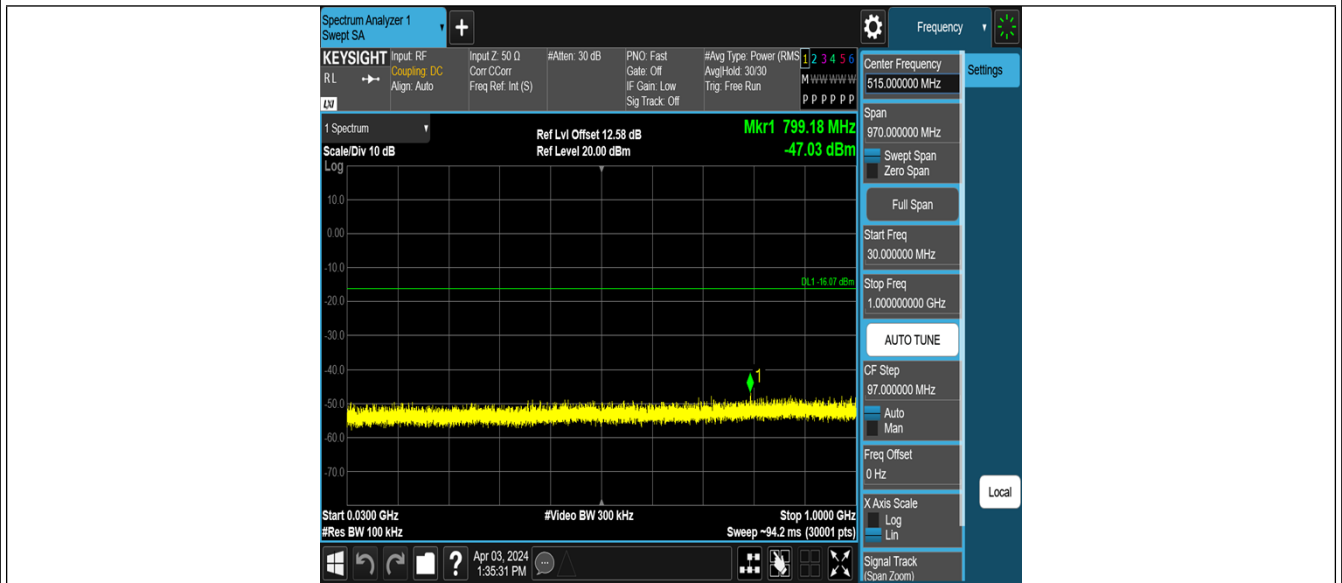




3DH5 Ant1 2402 30~1000









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

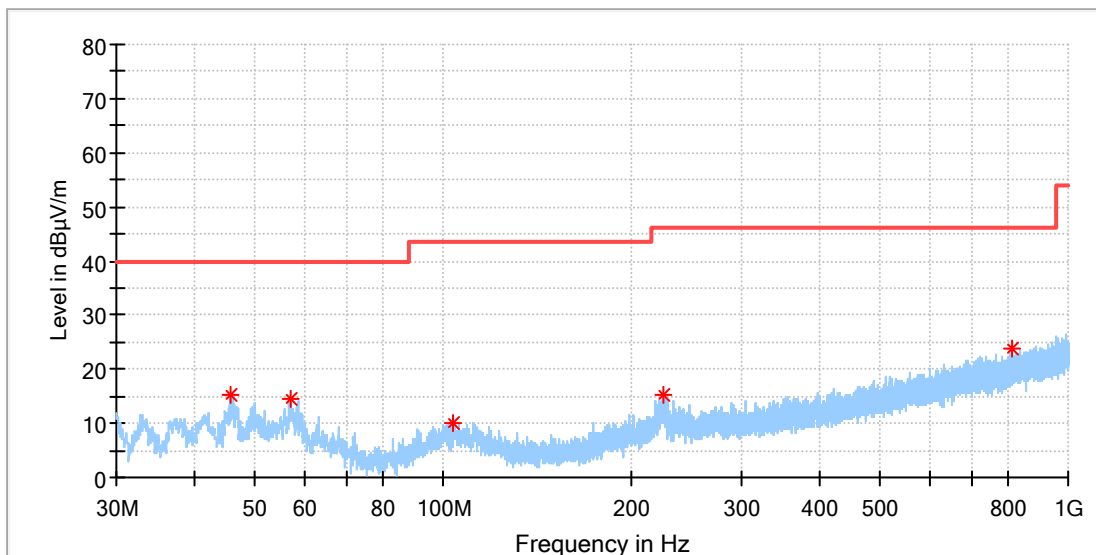
Note:

- 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:	Portable Bluetooth Speaker
Model:	ASM02G
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168476662/A003677431-035
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



#### Critical\_Freqs

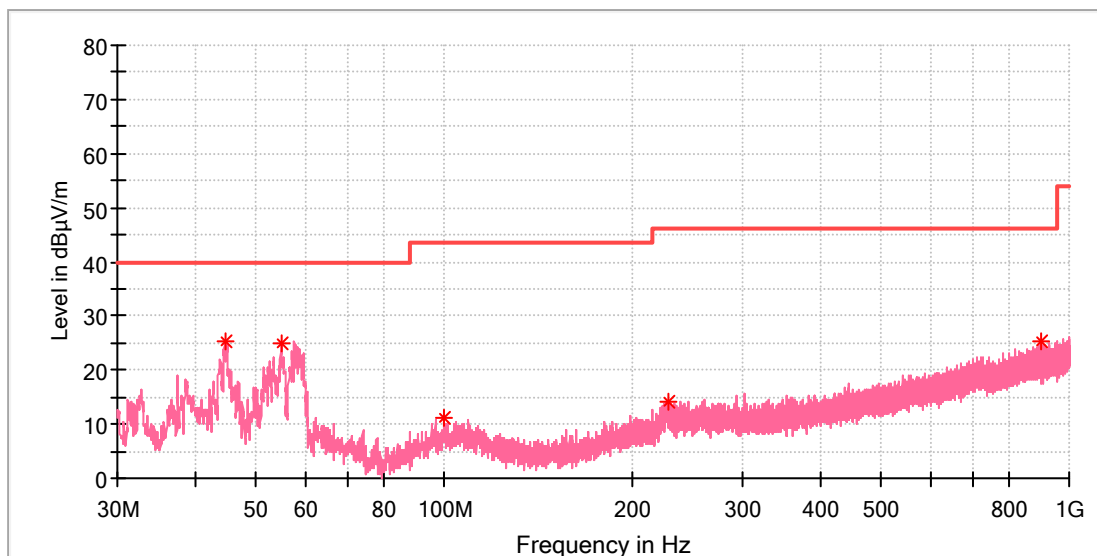
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.631923	15.25	40.00	24.75	100.0	H	203.0	-19.0
57.010769	14.58	40.00	25.42	100.0	H	250.0	-19.0
103.794615	10.15	43.50	33.35	100.0	H	285.0	-19.1
224.298462	15.28	46.00	30.72	100.0	H	337.0	-18.7
810.850000	23.87	46.00	22.13	100.0	H	89.0	-6.6

#### 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: Portable Bluetooth Speaker  
 Model: ASM02G  
 Test Mode: BR\_DH5\_Mid channel  
 Order No/Sample No: 168476662/A003677431-035  
 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)
44.587308	25.20	40.00	14.80	100.0	V	203.0	-19.2
54.846923	25.11	40.00	14.89	100.0	V	8.0	-18.7
100.063846	11.07	43.50	32.43	100.0	V	203.0	-19.3
228.103846	14.21	46.00	31.79	100.0	V	251.0	-18.5
898.970769	25.21	46.00	20.79	100.0	V	82.0	-5.4

### Final\_Result

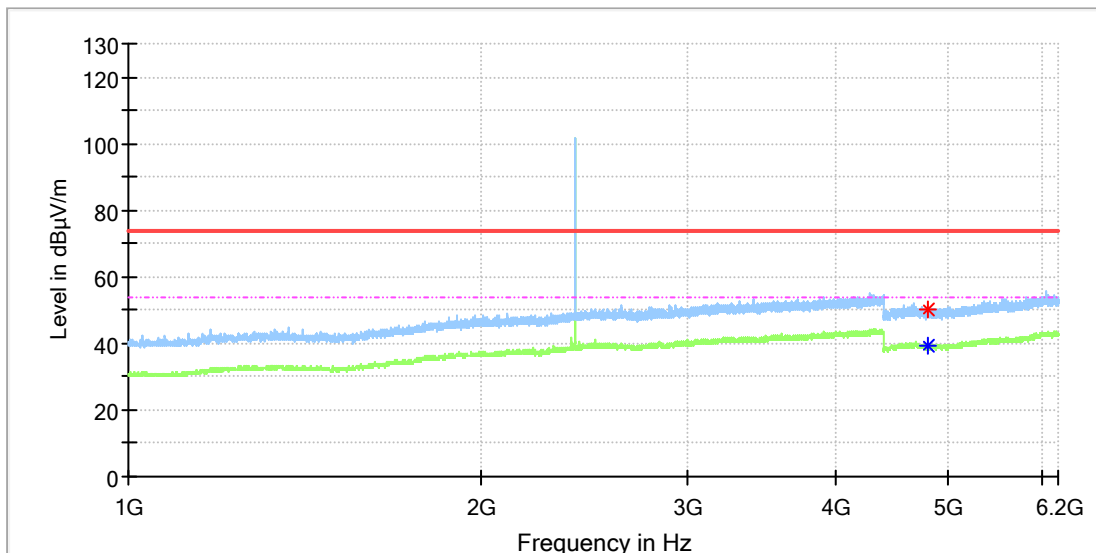
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

**1GHz - 18GHz**

Note: The highest waveform in the figure is Bluetooth Fundamental.

**EUT Information**

EUT Name:	Portable Bluetooth Speaker
Model:	ASM02G
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168476662/A003677431-035
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



**Critical Freqs**

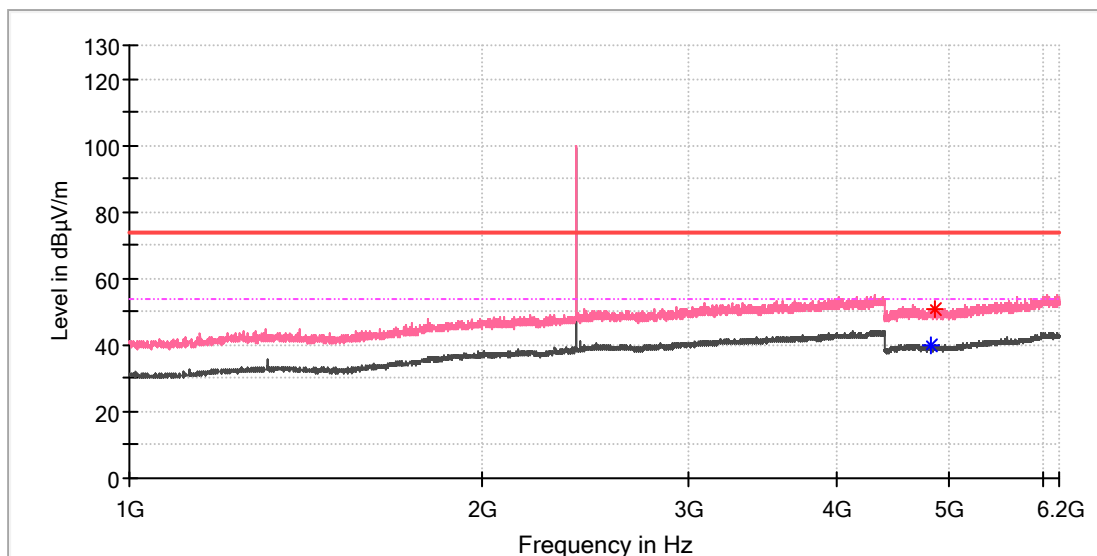
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4808.000000	50.25	---	74.00	23.75	150.0	H	37.0	11.8
4809.500000	---	39.31	54.00	14.69	150.0	H	121.0	11.8

**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: Portable Bluetooth Speaker  
 Model: ASM02G  
 Test Mode: BR\_DH5\_Low channel  
 Order No/Sample No: 168476662/A003677431-035  
 Test Voltage:: Battery  
 Remark: Temp 23 Humi:56%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

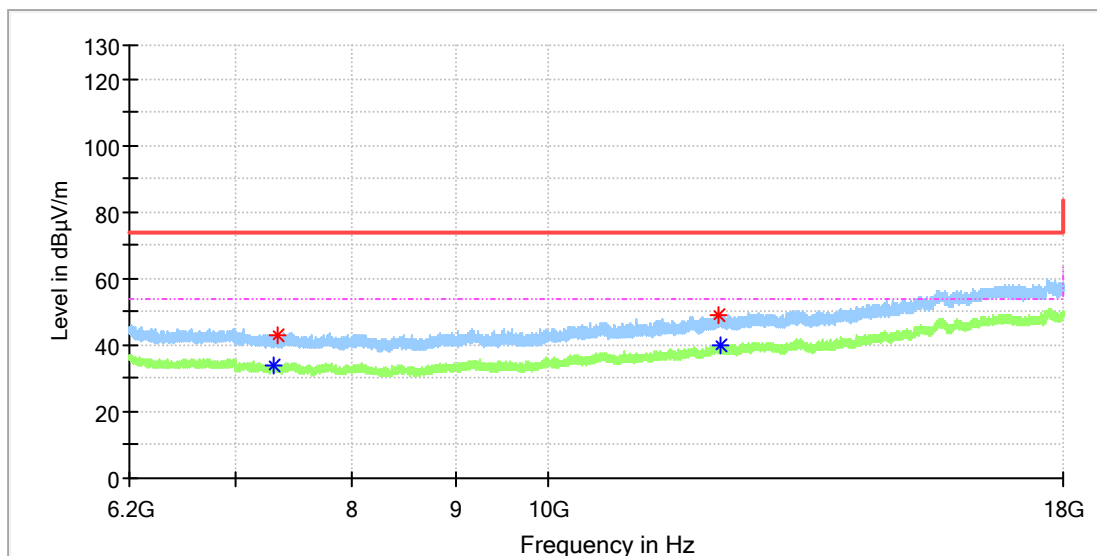
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4813.500000	---	39.64	54.00	14.36	150.0	V	180.0	11.8
4853.000000	50.68	---	74.00	23.32	150.0	V	90.0	11.8

### Final\_Result

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

### EUT Information

EUT Name: Portable Bluetooth Speaker  
 Model: ASM02G  
 Test Mode: BR\_DH5\_Low channel  
 Order No/Sample No: 168476662/A003677431-035  
 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)
7312.150000	---	33.91	54.00	20.09	150.0	H	206.0	8.2
7344.108333	43.14	---	74.00	30.86	150.0	H	121.0	8.1
12155.066667	48.96	---	74.00	25.04	150.0	H	315.0	14.4
12182.108333	---	39.82	54.00	14.18	150.0	H	339.0	14.6

### Final\_Result

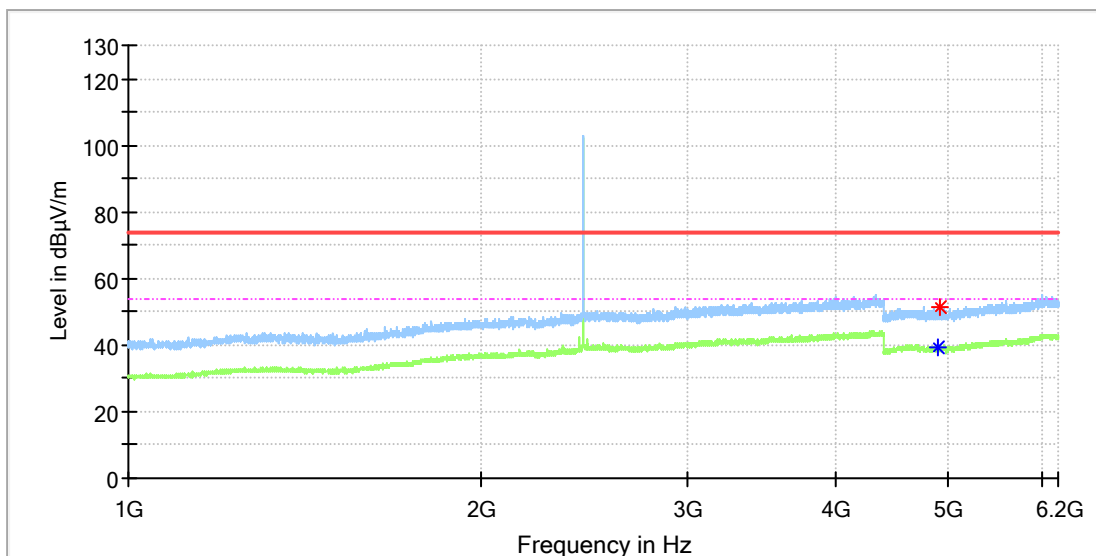
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---





### EUT Information

EUT Name: Portable Bluetooth Speaker  
 Model: ASM02G  
 Test Mode: BR\_DH5\_Mid channel  
 Order No/Sample No: 168476662/A003677431-035  
 Test Voltage:: Battery  
 Remark: Temp 23 Humi:56%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

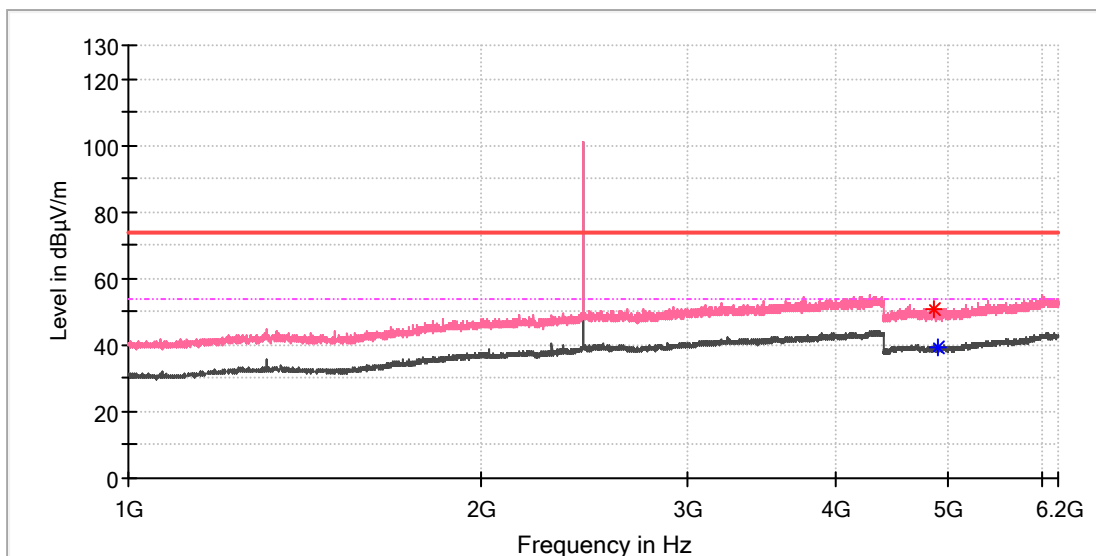
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4903.500000	---	39.43	54.00	14.57	150.0	H	260.0	11.8
4922.500000	51.22	---	74.00	22.78	150.0	H	242.0	11.8

### 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: Portable Bluetooth Speaker  
 Model: ASM02G  
 Test Mode: BR\_DH5\_Mid channel  
 Order No/Sample No: 168476662/A003677431-035  
 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)
4862.500000	51.03	---	74.00	22.97	150.0	V	315.0	11.8
4901.500000	---	39.43	54.00	14.57	150.0	V	5.0	11.8

### Final\_Result

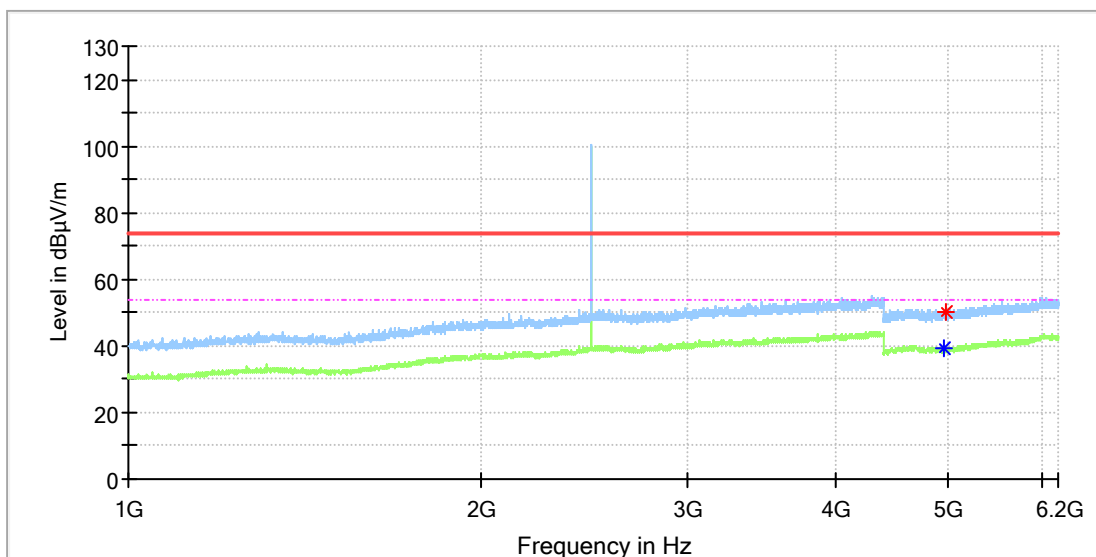
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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### EUT Information

EUT Name: Portable Bluetooth Speaker  
 Model: ASM02G  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168476662/A003677431-035  
 Test Voltage:: Battery  
 Remark: Temp 23 Humi:56%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

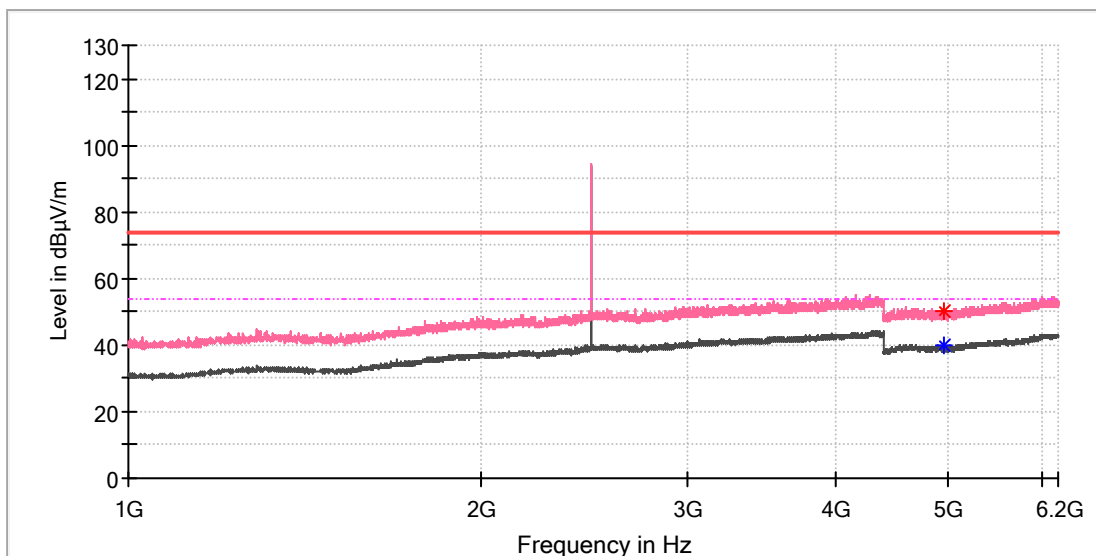
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4955.500000	---	39.33	54.00	14.67	150.0	H	68.0	11.8
4965.000000	50.38	---	74.00	23.62	150.0	H	31.0	11.8

### 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: Portable Bluetooth Speaker  
 Model: ASM02G  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168476662/A003677431-035  
 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)
4953.500000	---	39.76	54.00	14.24	150.0	V	154.0	11.8
4958.500000	50.13	---	74.00	23.87	150.0	V	289.0	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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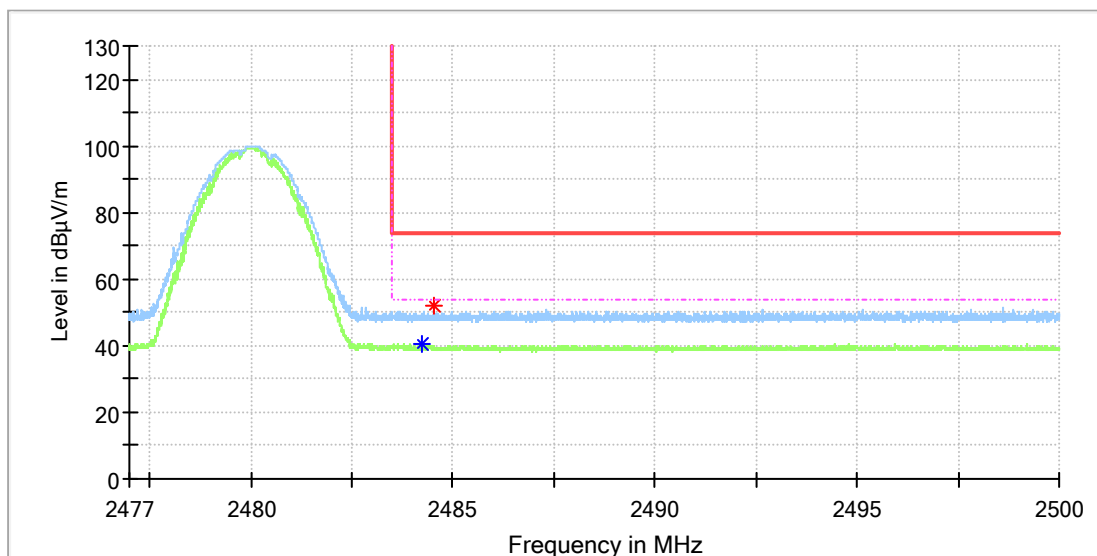




### Appendix A.8: Test Results of Radiated Emissions in Restricted Bands

#### EUT Information

EUT Name:	Portable Bluetooth Speaker
Model:	ASM02G
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168476662/A003677431-035
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)
2484.227941	---	40.51	54.00	13.49	150.0	H	244.0	7.4
2484.541177	51.83	---	74.00	22.17	150.0	H	174.0	7.4

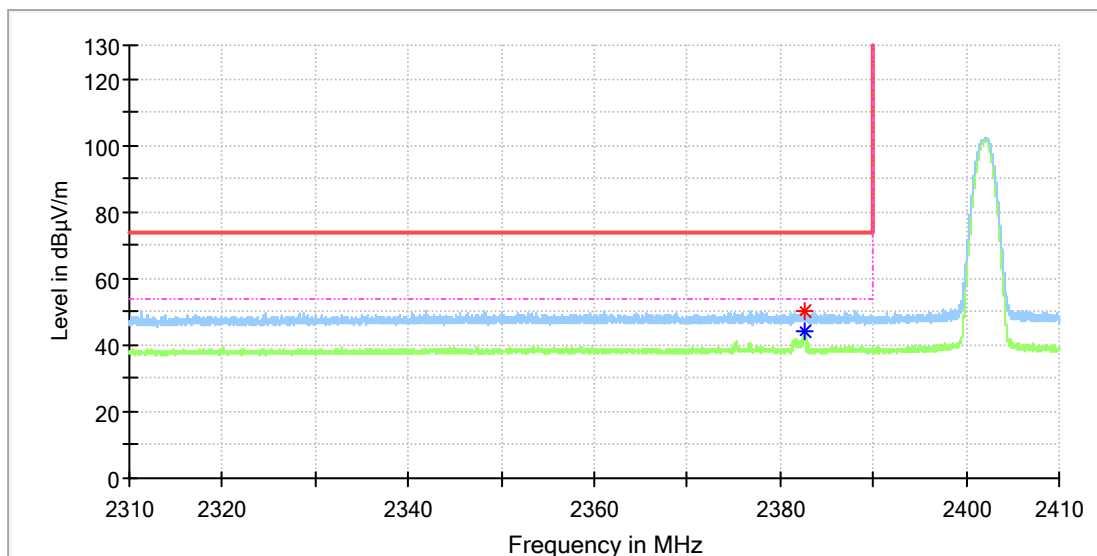
#### Final Result

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



### EUT Information

EUT Name: Portable Bluetooth Speaker  
 Model: ASM02G  
 Test Mode: BR\_DH5\_Low channel  
 Order No/Sample No: 168476662/A003677431-035  
 Test Voltage:: Battery  
 Remark: Temp 23 Humi:56%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

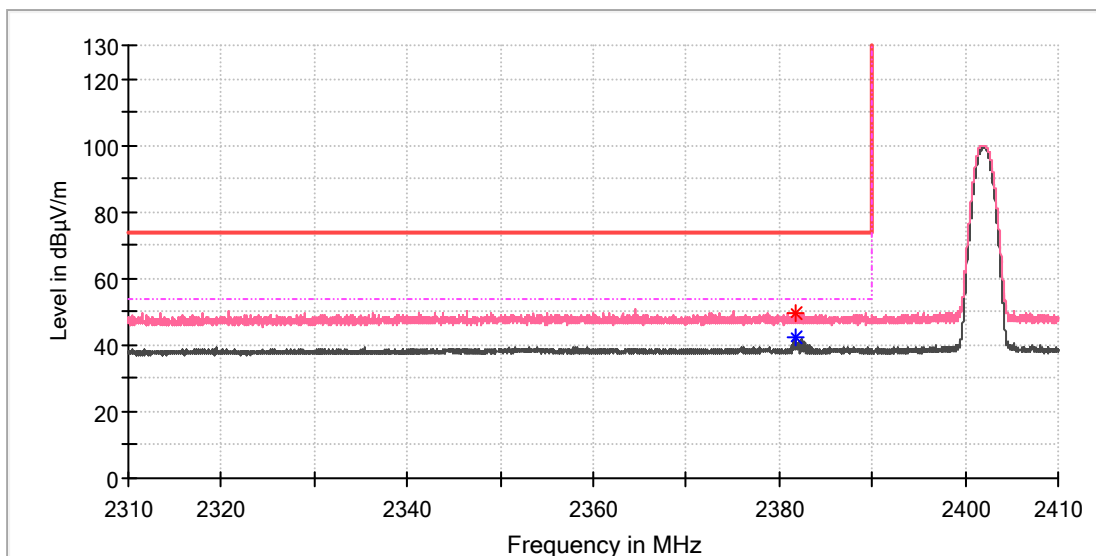
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2382.676471	50.21	---	74.00	23.79	150.0	H	245.0	7.0
2382.735294	---	43.89	54.00	10.11	150.0	H	245.0	7.0

### 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: Portable Bluetooth Speaker  
 Model: ASM02G  
 Test Mode: BR\_DH5\_Low channel  
 Order No/Sample No: 168476662/A003677431-035  
 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)
2381.691177	49.85	---	74.00	24.15	150.0	V	352.0	7.0
2381.735294	---	42.09	54.00	11.91	150.0	V	352.0	7.0

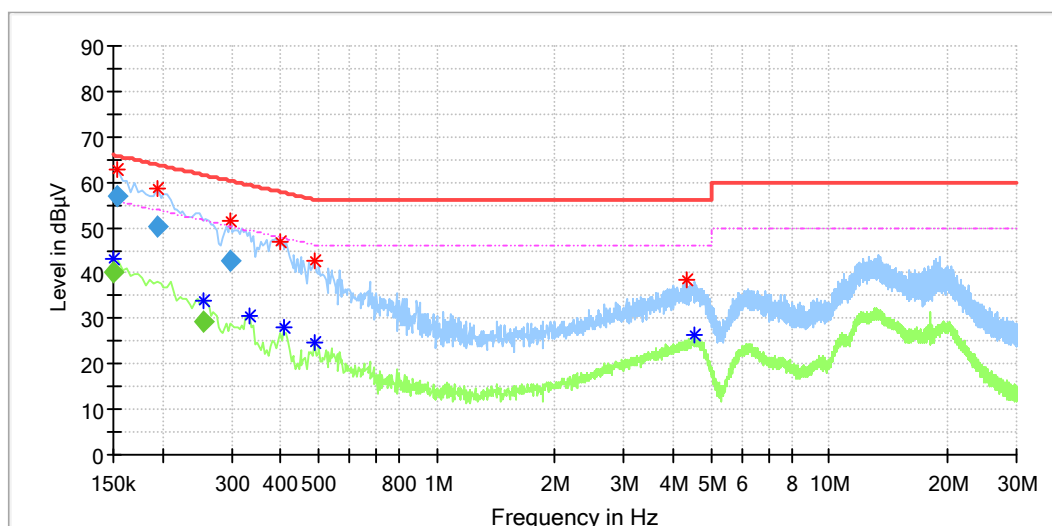
### Final\_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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## Appendix A.9: Conducted Emission on AC Mains

### EUT Information

EUT Name: Portable Bluetooth Speaker  
 Order Number: 168476662  
 Model: ASM02G  
 Test Mode: Charging + Bluetooth Palying  
 Test Voltage: AC 120V/60Hz  
 Test Standard: FCC Part 15C  
 Test By:/Review By: Eric Guo/ Shower Dai  
 Tem./Hum./Pressure: 24.3°C/52.2%/101kPa  
 Remark: SR2



### Critical Freqs

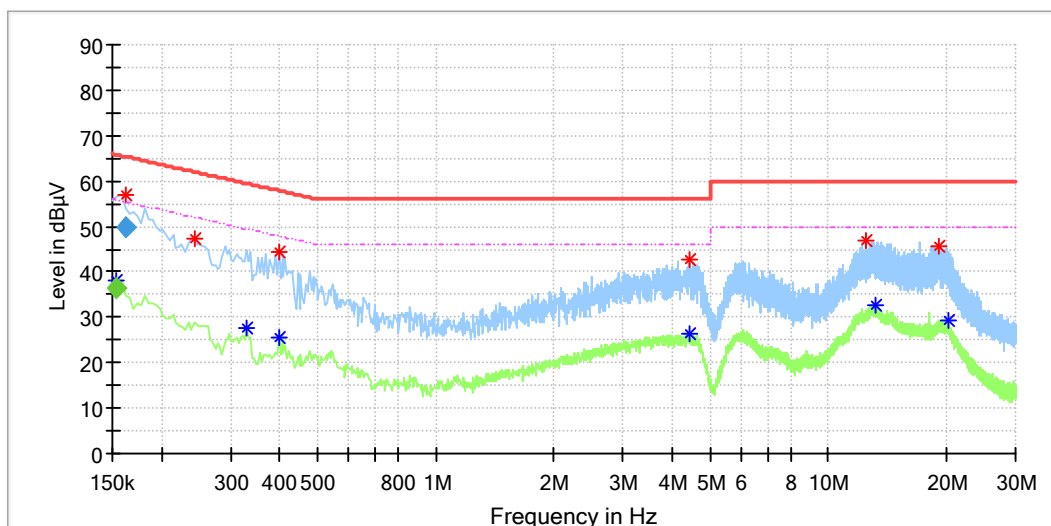
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	43.25	55.78	12.53	L1	9.9
0.154000	62.91	---	65.78	2.87	L1	9.9
0.193500	58.70	---	63.86	5.16	L1	9.9
0.253500	---	33.75	51.50	17.74	L1	9.9
0.297500	51.55	---	60.30	8.75	L1	9.9
0.334000	---	30.48	49.35	18.87	L1	9.9
0.398000	47.04	---	57.90	10.85	L1	9.9
0.406000	---	27.92	47.73	19.81	L1	9.9
0.486000	---	24.50	46.24	21.73	L1	10.0
0.486000	42.66	---	56.24	13.58	L1	10.0
4.314000	38.64	---	56.00	17.36	L1	10.2
4.558000	---	26.48	46.00	19.52	L1	10.2

### Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	40.03	56.00	15.97	1000.0	9.000	L1	9.9
0.154000	56.73	---	65.78	9.05	1000.0	9.000	L1	9.9
0.193500	50.40	---	63.89	13.49	1000.0	9.000	L1	9.9
0.253500	---	29.20	51.64	22.44	1000.0	9.000	L1	9.9
0.297500	42.64	---	60.31	17.67	1000.0	9.000	L1	9.9

## EUT Information

EUT Name:	Portable Bluetooth Speaker
Order Number:	168476662
Model:	ASM02G
Test Mode:	Charging + Bluetooth Palying
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15C
Test By:/Review By:	Eric Guo/ Shower Dai
Tem./Hum./Pressure:	24.3°C/52.2%/101kPa
Remark:	SR2



## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.153500	---	37.95	55.57	17.61	N	9.8
0.162500	56.92	---	65.57	8.65	N	9.8
0.242000	47.45	---	62.03	14.58	N	9.8
0.330000	---	27.69	49.45	21.76	N	9.8
0.398000	---	25.67	47.90	22.23	N	9.8
0.398000	44.43	---	57.90	13.47	N	9.8
4.446000	---	26.38	46.00	19.62	N	9.9
4.446000	42.74	---	56.00	13.26	N	9.9
12.406000	46.89	---	60.00	13.11	N	10.1
13.170000	---	32.74	50.00	17.26	N	10.1
19.170000	45.67	---	60.00	14.33	N	10.2
20.126000	---	29.33	50.00	20.67	N	10.2

## Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.153500	---	36.37	55.81	19.44	1000.0	9.000	N	9.8
0.162500	49.97	---	65.34	15.37	1000.0	9.000	N	9.8