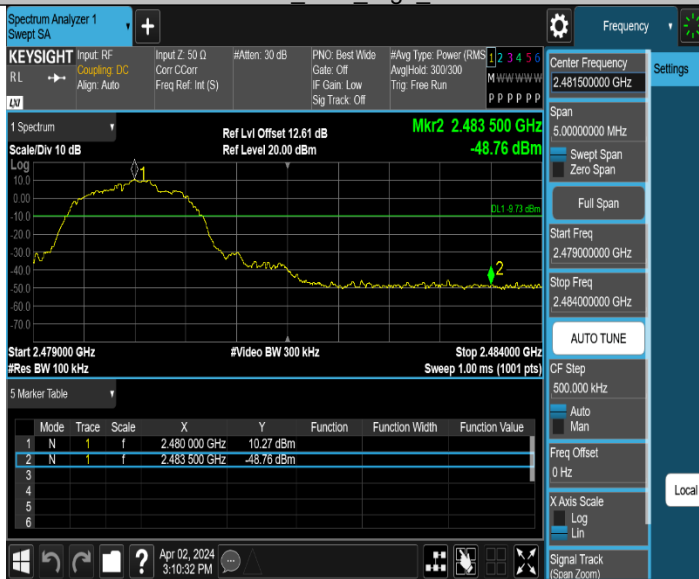




3DH5 Ant1 High 2480



DH5_Ant1_Hopping_2402



DH5 Ant1 Hopping_2480



3DH5 Ant1 Hopping_2402

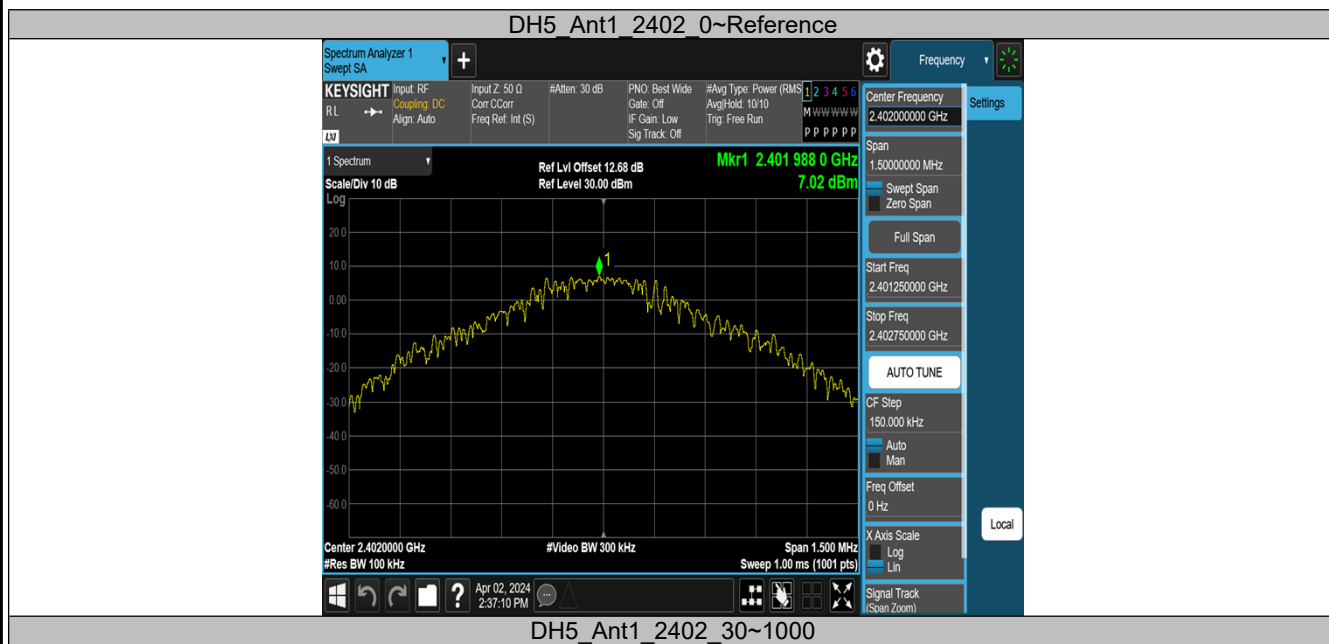


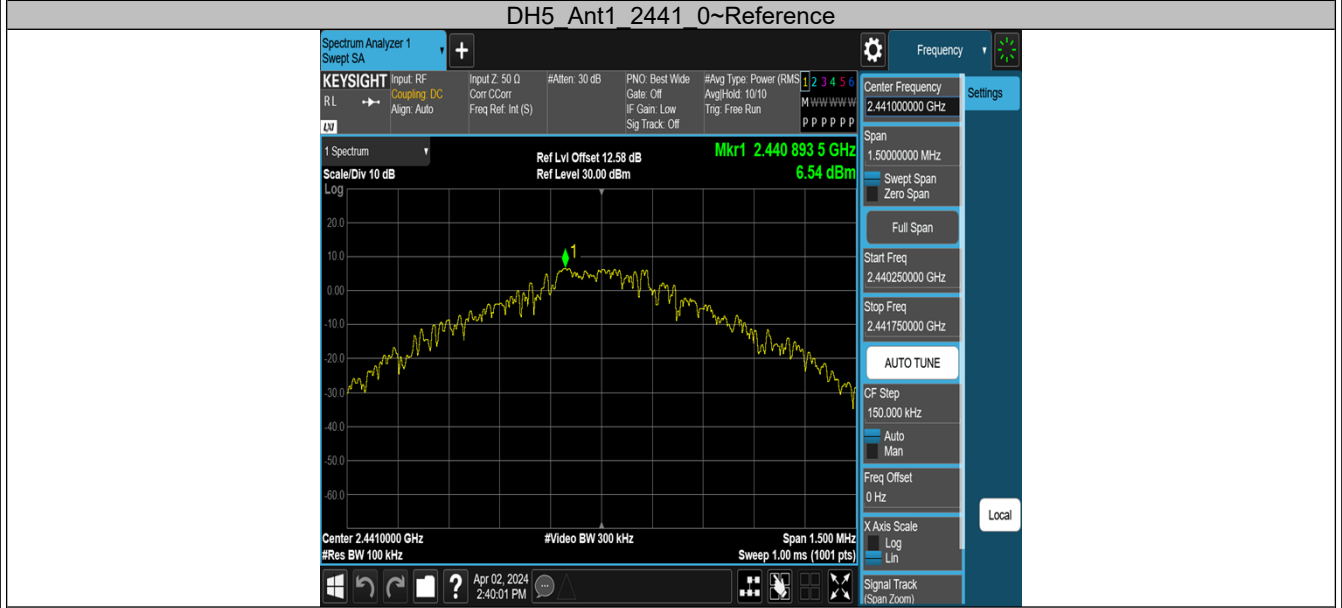
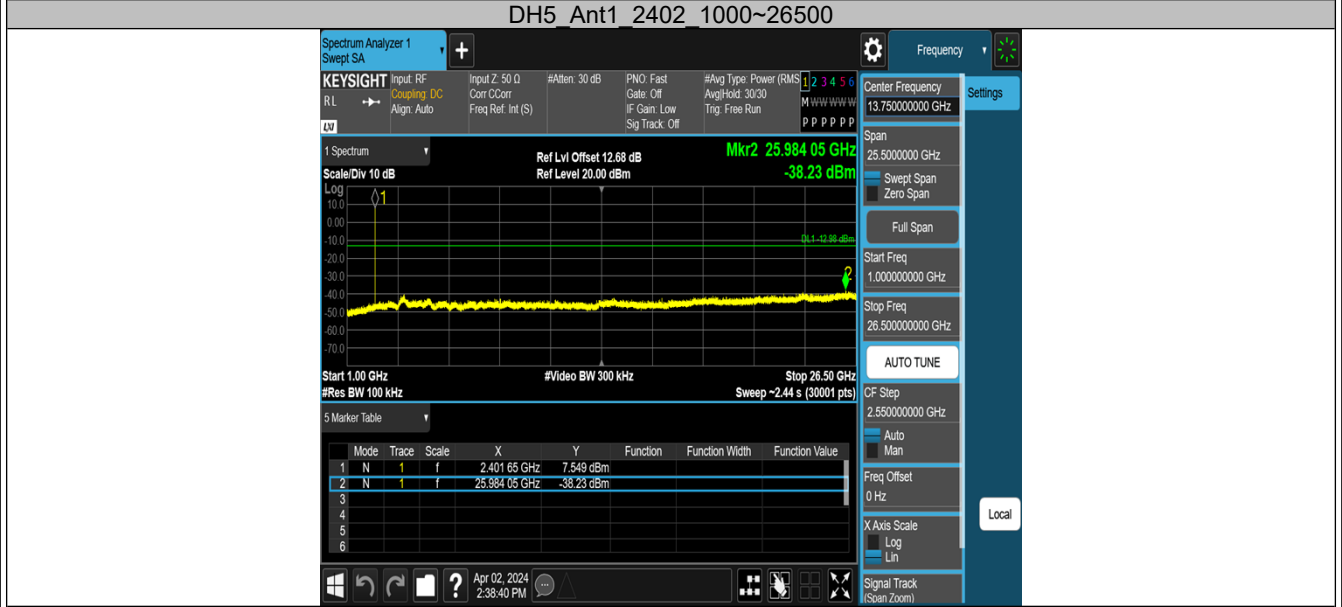
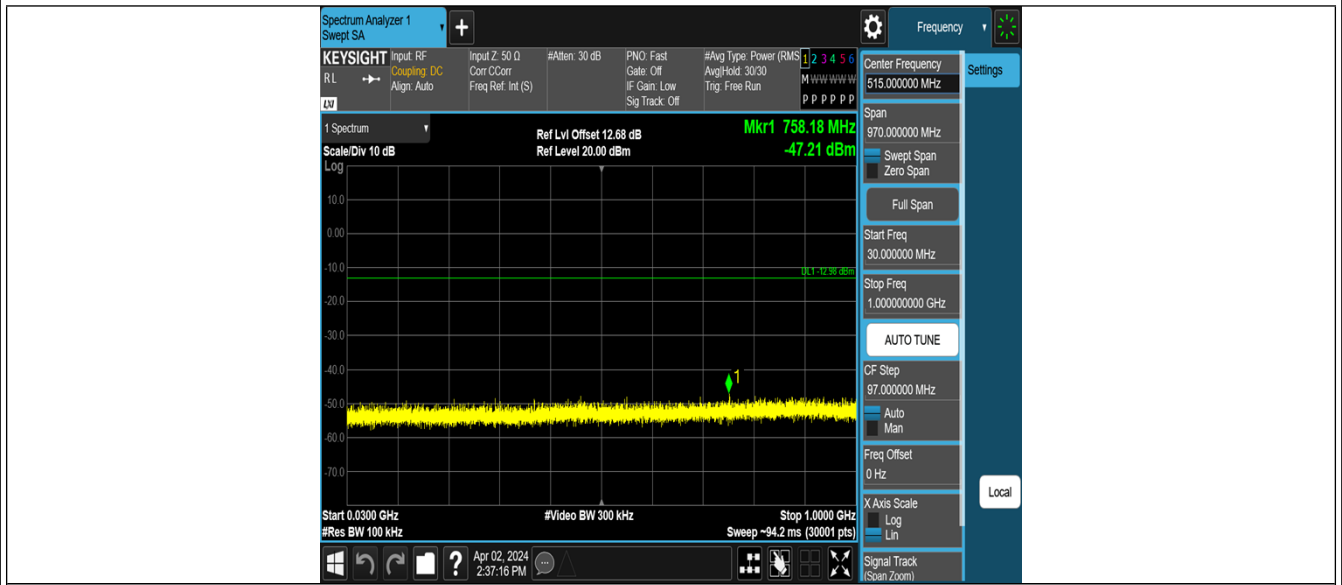
3DH5_Ant1_Hopping_2480

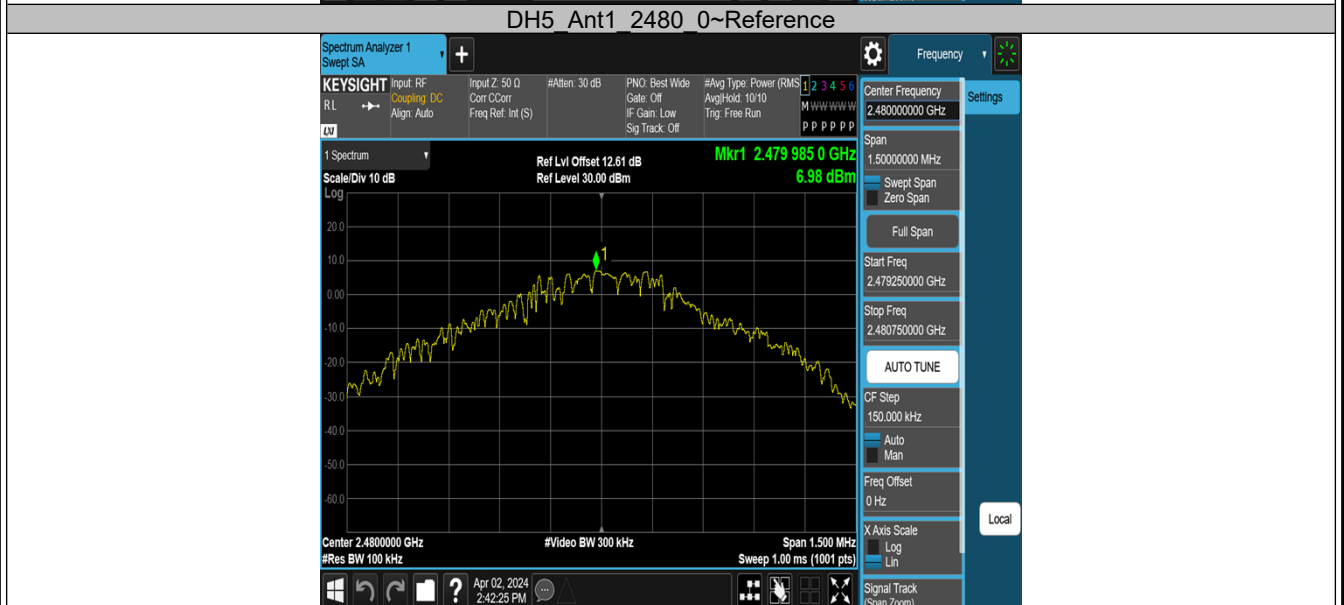
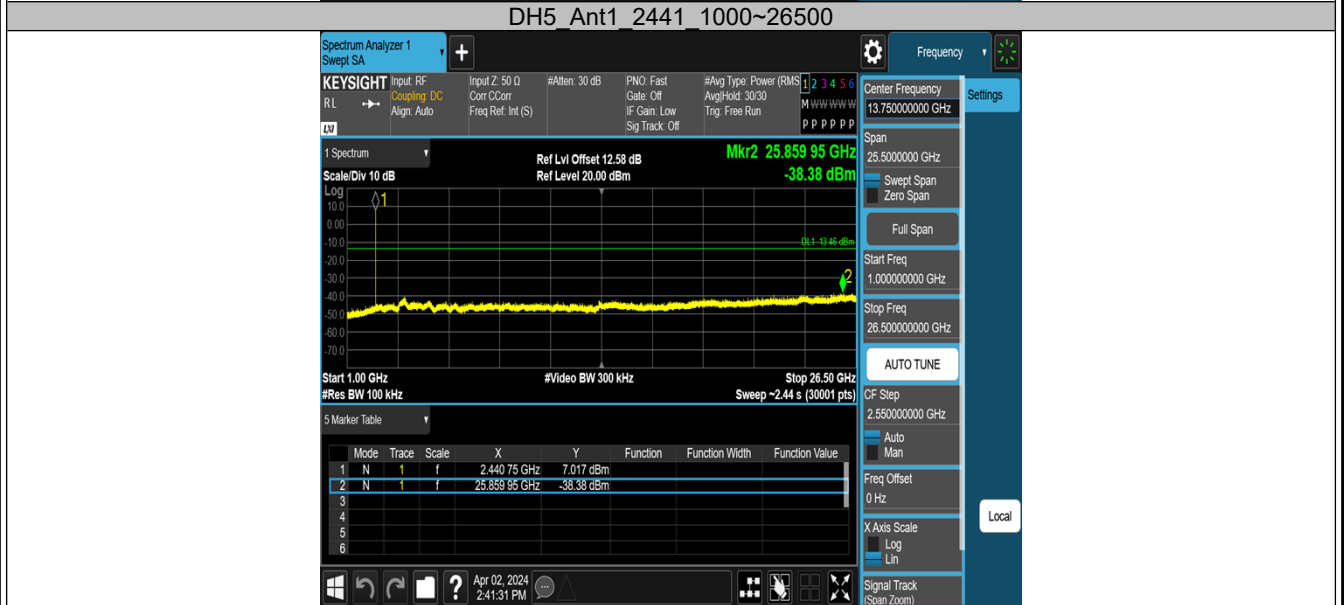
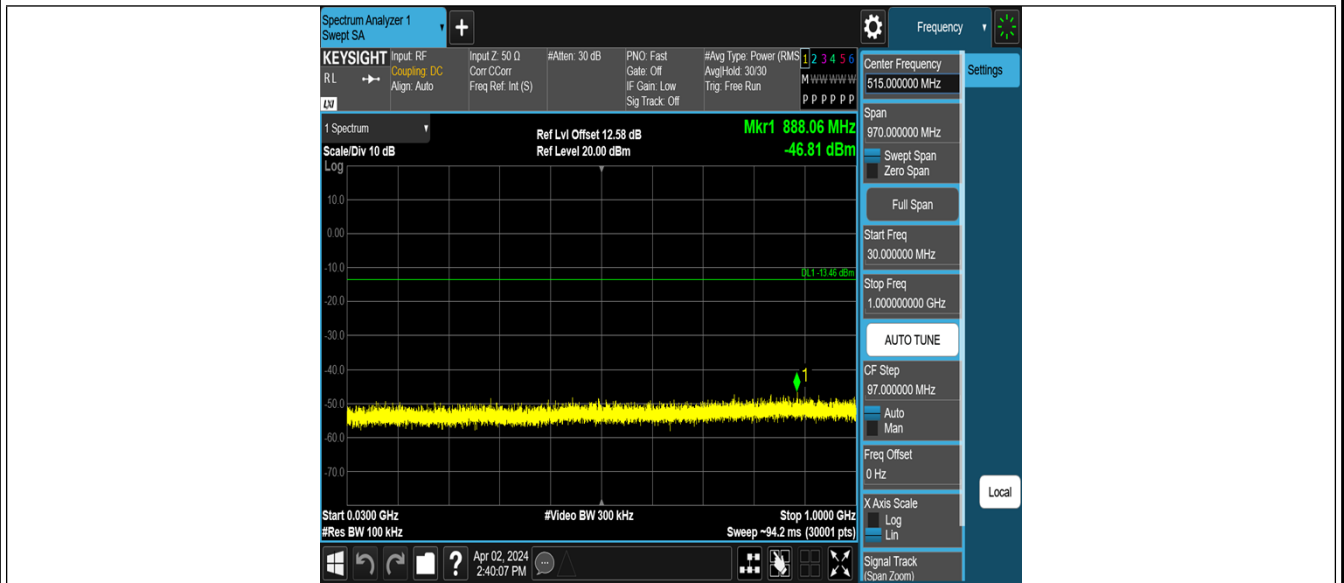


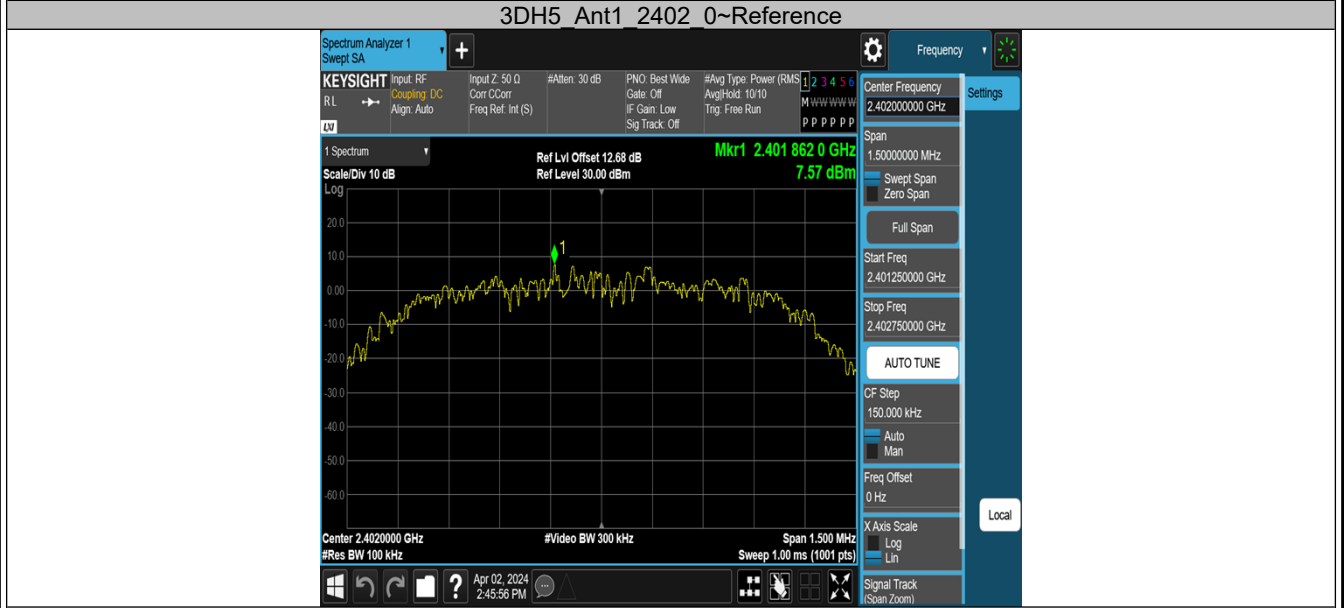
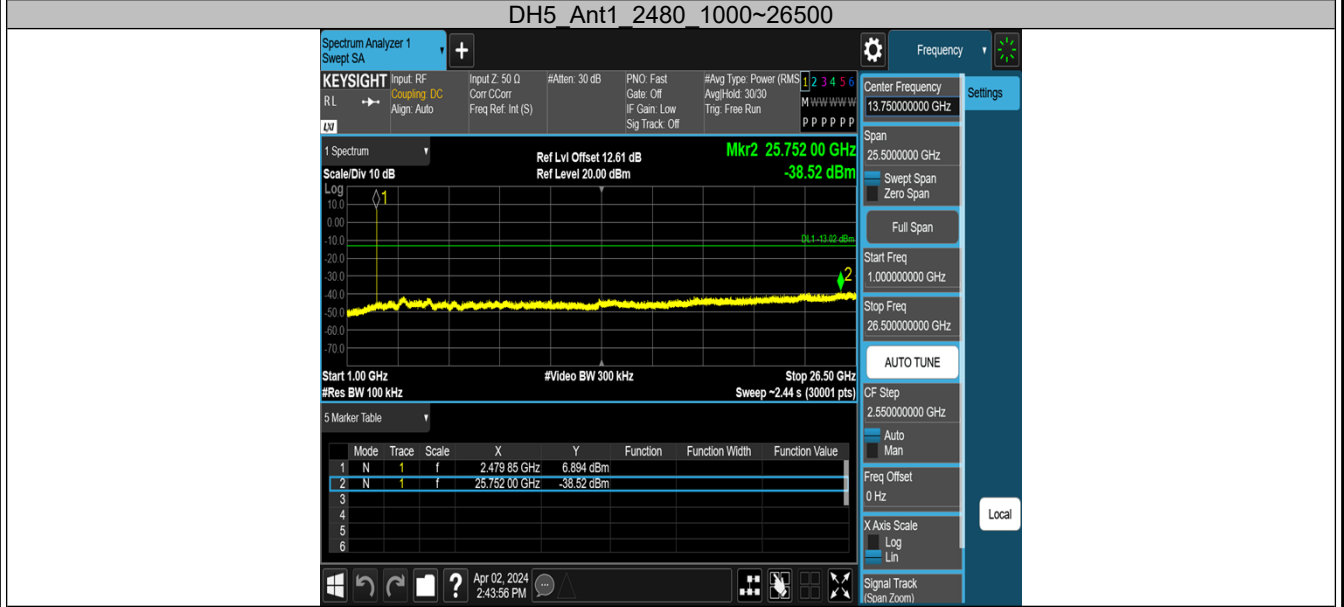
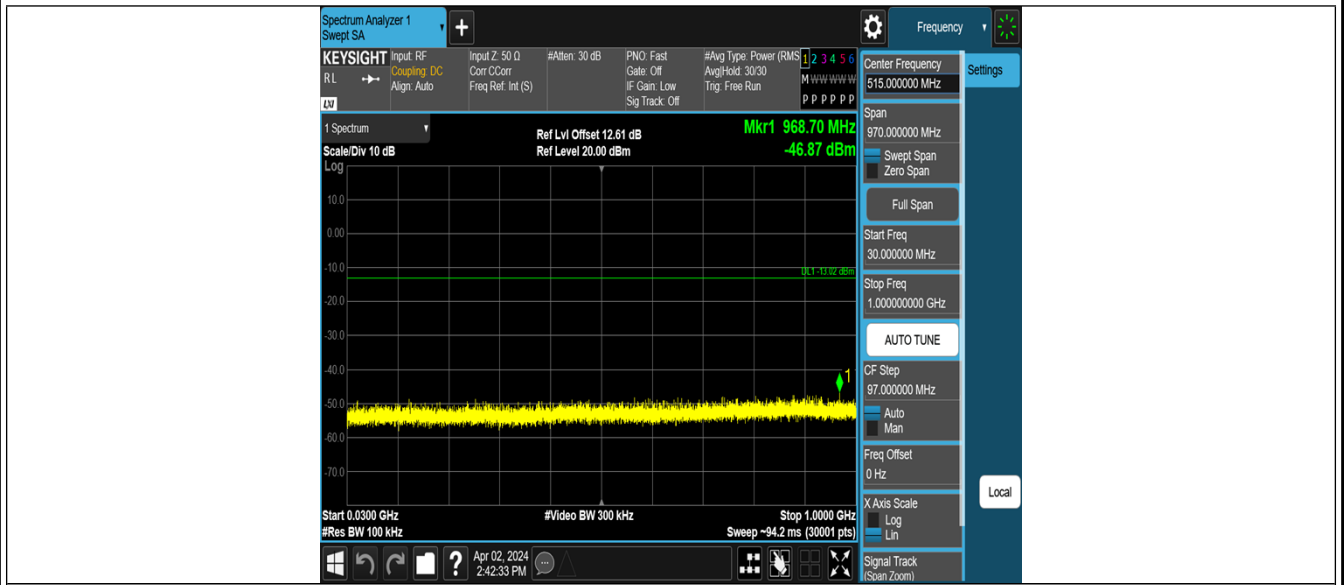
Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.02	7.02	---	PASS
			30~1000	7.02	-47.21	≤-12.98	PASS
			1000~26500	7.02	-38.23	≤-12.98	PASS
		2441	Reference	6.54	6.54	---	PASS
			30~1000	6.54	-46.81	≤-13.46	PASS
			1000~26500	6.54	-38.38	≤-13.46	PASS
		2480	Reference	6.98	6.98	---	PASS
			30~1000	6.98	-46.87	≤-13.02	PASS
			1000~26500	6.98	-38.52	≤-13.02	PASS
3DH5	Ant1	2402	Reference	7.57	7.57	---	PASS
			30~1000	7.57	-46.92	≤-12.43	PASS
			1000~26500	7.57	-38.59	≤-12.43	PASS
		2441	Reference	4.93	4.93	---	PASS
			30~1000	4.93	-46.98	≤-15.07	PASS
			1000~26500	4.93	-38.66	≤-15.07	PASS
		2480	Reference	4.91	4.91	---	PASS
			30~1000	4.91	-47.23	≤-15.09	PASS
			1000~26500	4.91	-38.04	≤-15.09	PASS

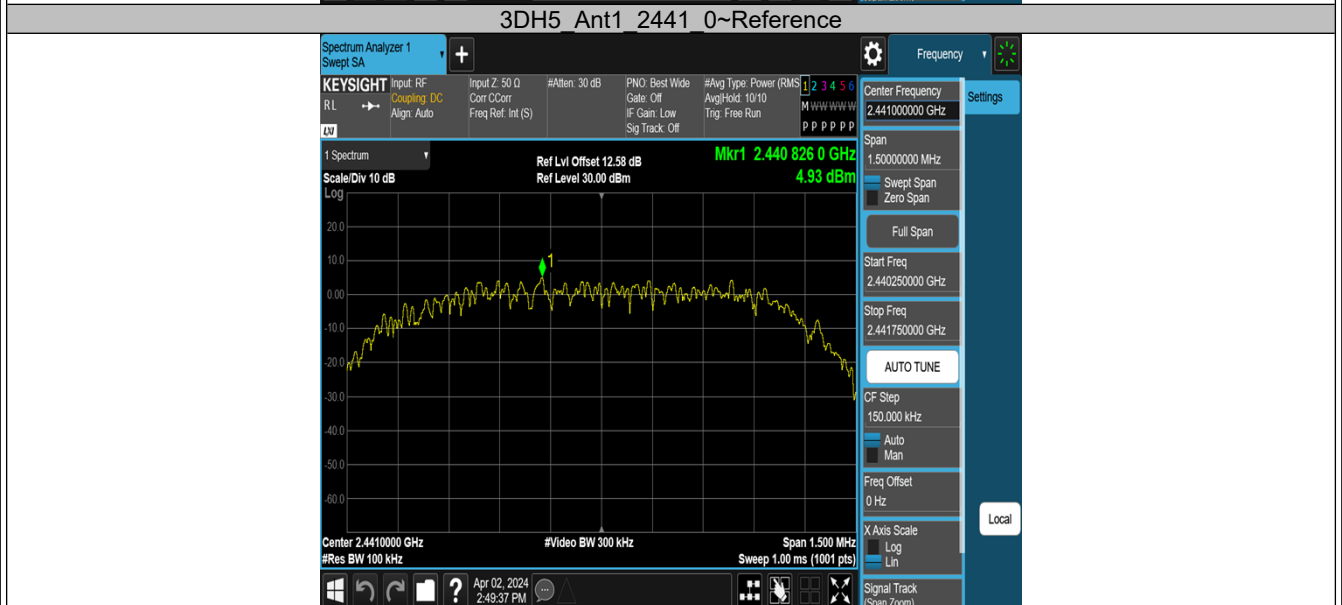
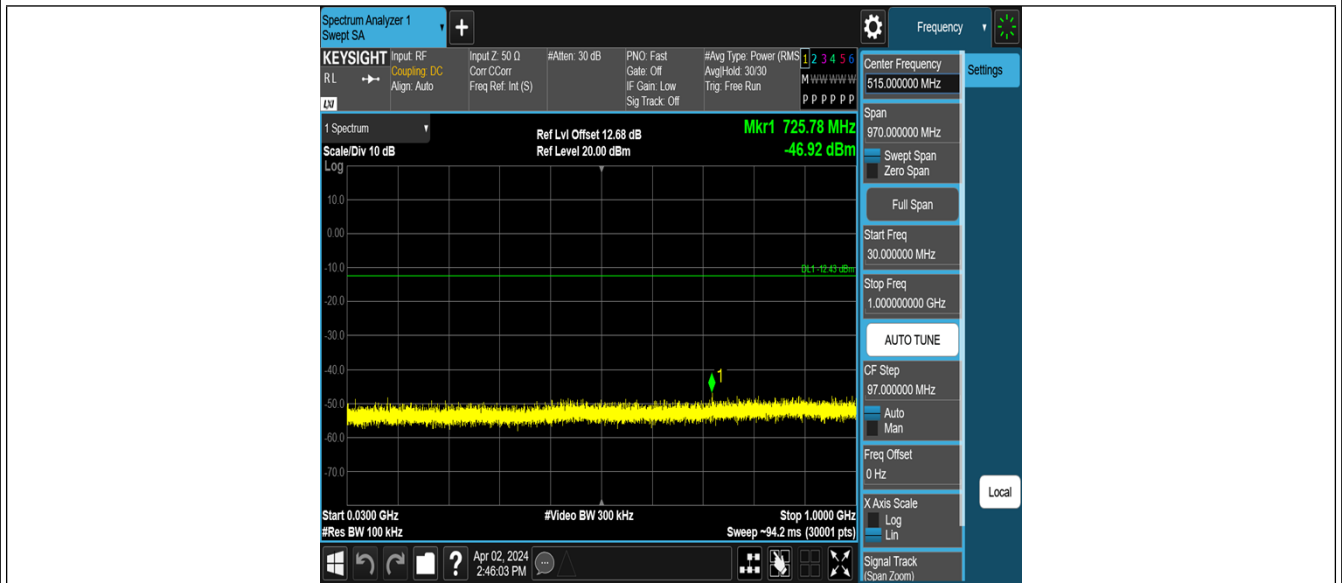


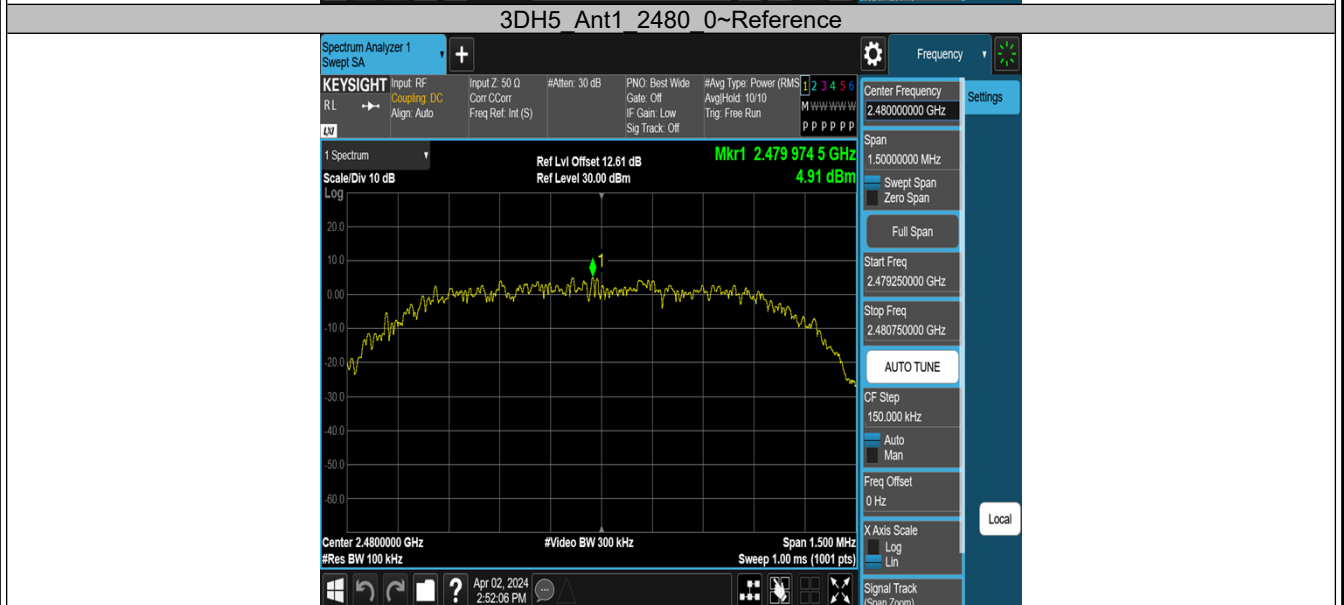
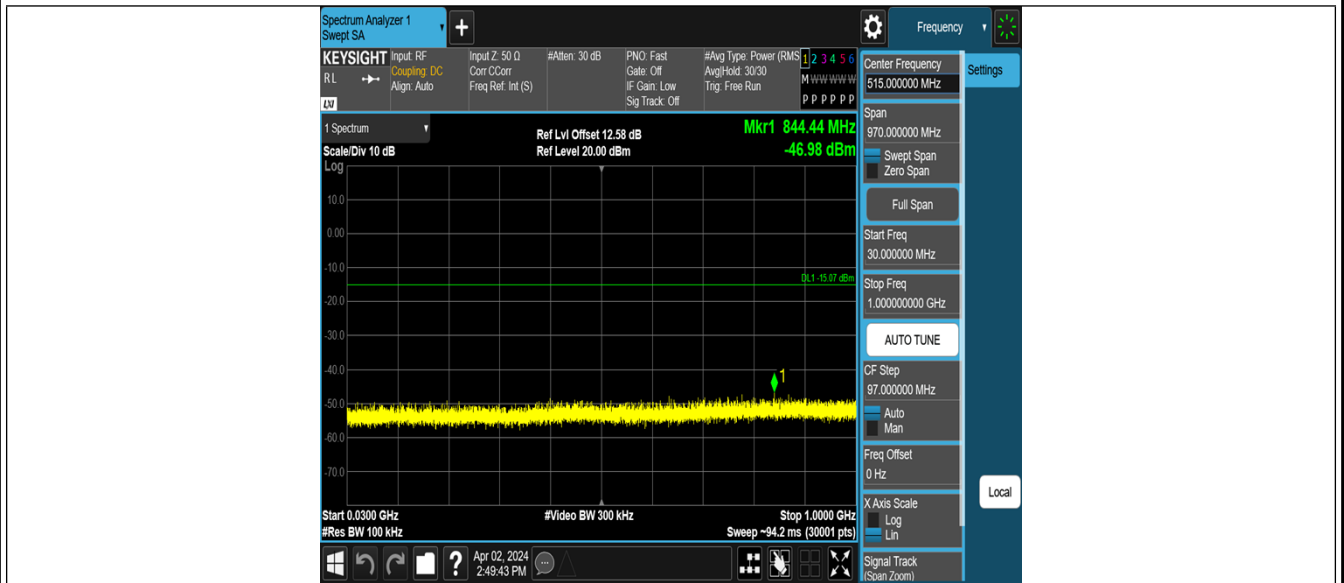


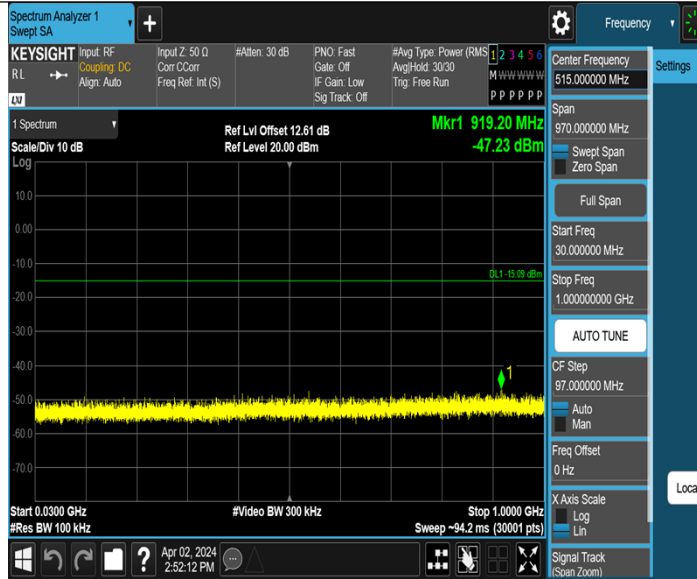




3DH5 Ant1 2402 30~1000







3DH5 Ant1 2480 1000~26500



Appendix A.7: Test Results of Radiated Spurious Emissions

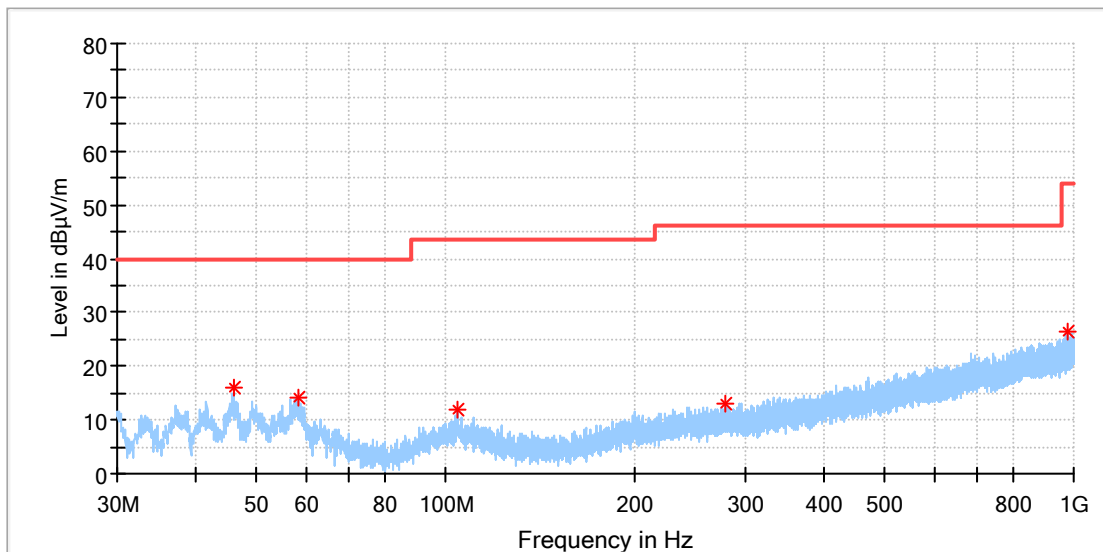
Note:

- 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:	Portable Bluetooth Speaker
Model:	ASM01G
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168476662/A003677431-019
Test Voltage::	Battery DC
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

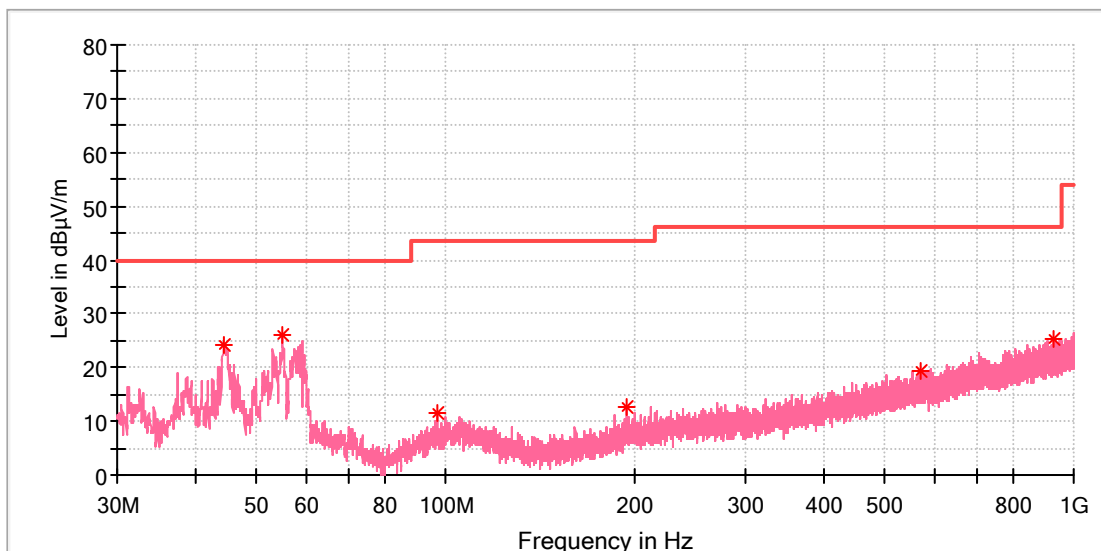
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.967692	15.94	40.00	24.06	100.0	H	119.0	-19.0
58.204615	14.16	40.00	25.84	100.0	H	225.0	-19.1
104.727308	11.77	43.50	31.73	100.0	H	94.0	-19.1
278.879615	12.92	46.00	33.08	100.0	H	0.0	-17.1
980.040385	26.42	54.00	27.58	100.0	H	193.0	-4.4

Final Result

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

EUT Information

EUT Name: Portable Bluetooth Speaker
 Model: ASM01G
 Test Mode: BR_DH5_Mid channel
 Order No/Sample No: 168476662/A003677431-019
 Test Voltage:: Battery DC
 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)
44.438077	24.15	40.00	15.85	100.0	V	0.0	-19.3
54.921539	26.13	40.00	13.87	100.0	V	0.0	-18.7
96.967308	11.41	43.50	32.09	100.0	V	13.0	-19.8
194.489615	12.69	43.50	30.81	100.0	V	0.0	-19.5
568.835000	19.40	46.00	26.60	100.0	V	150.0	-10.8
930.794231	25.21	46.00	20.79	100.0	V	185.0	-5.1

Final Result

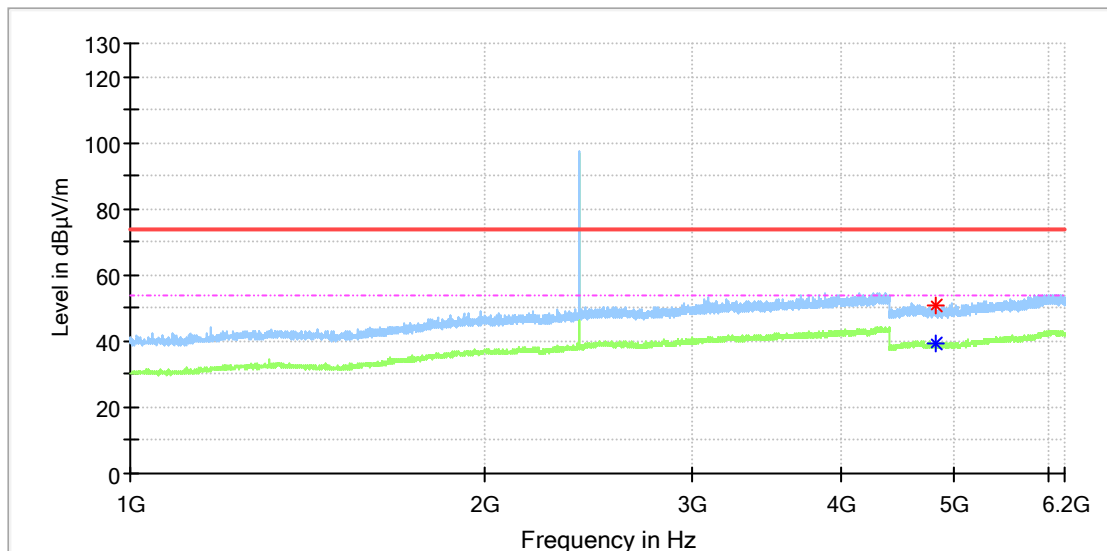
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Portable Bluetooth Speaker
Model:	ASM01G
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168476662/A003677431-019
Test Voltage::	Battery DC
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

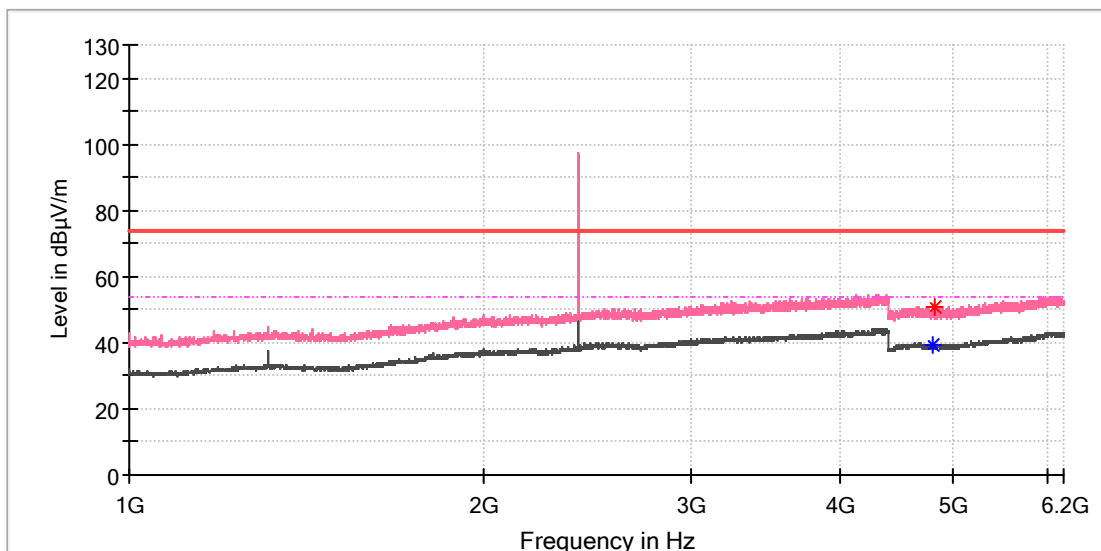
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4811.500000	50.60	---	74.00	23.40	150.0	H	244.0	11.8
4815.000000	---	39.44	54.00	14.56	150.0	H	321.0	11.8

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: ASM01G
 Test Mode: BR_DH5_Low channel
 Order No/Sample No: 168476662/A003677431-019
 Test Voltage:: Battery DC
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

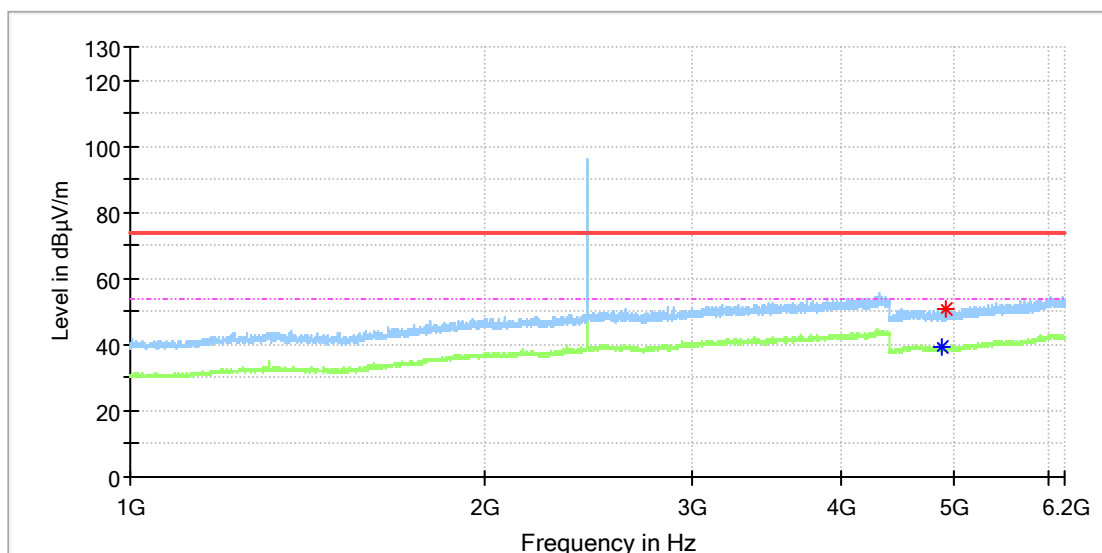
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4809.000000	---	39.39	54.00	14.61	150.0	V	333.0	11.8
4813.000000	50.81	---	74.00	23.19	150.0	V	201.0	11.8

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: ASM01G
 Test Mode: BR_DH5_Mid channel
 Order No/Sample No: 168476662/A003677431-019
 Test Voltage:: Battery DC
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

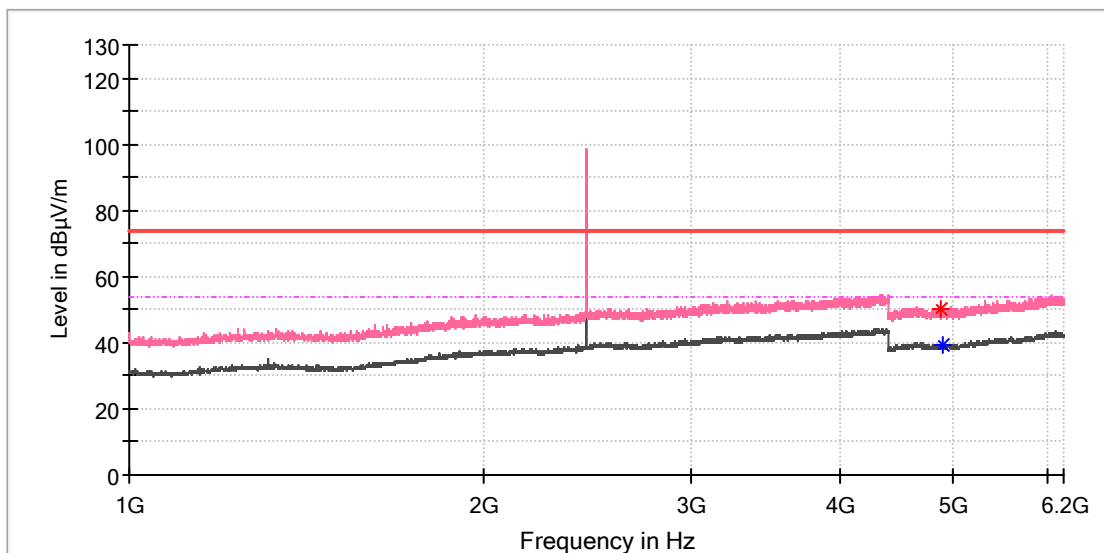
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4871.500000	---	39.26	54.00	14.74	150.0	H	266.0	11.8
4916.000000	50.57	---	74.00	23.43	150.0	H	189.0	11.8

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: ASM01G
 Test Mode: BR_DH5_Mid channel
 Order No/Sample No: 168476662/A003677431-019
 Test Voltage:: Battery DC
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

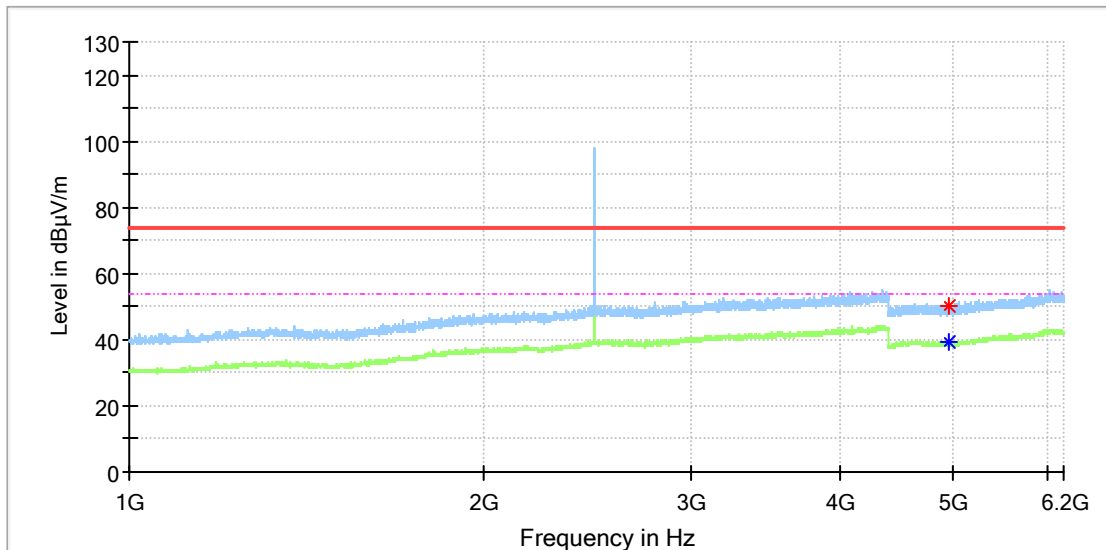
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4876.000000	50.14	---	74.00	23.86	150.0	V	126.0	11.8
4906.500000	---	39.54	54.00	14.46	150.0	V	297.0	11.8

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: ASM01G
 Test Mode: BR_DH5_High channel
 Order No/Sample No: 168476662/A003677431-019
 Test Voltage:: Battery DC
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

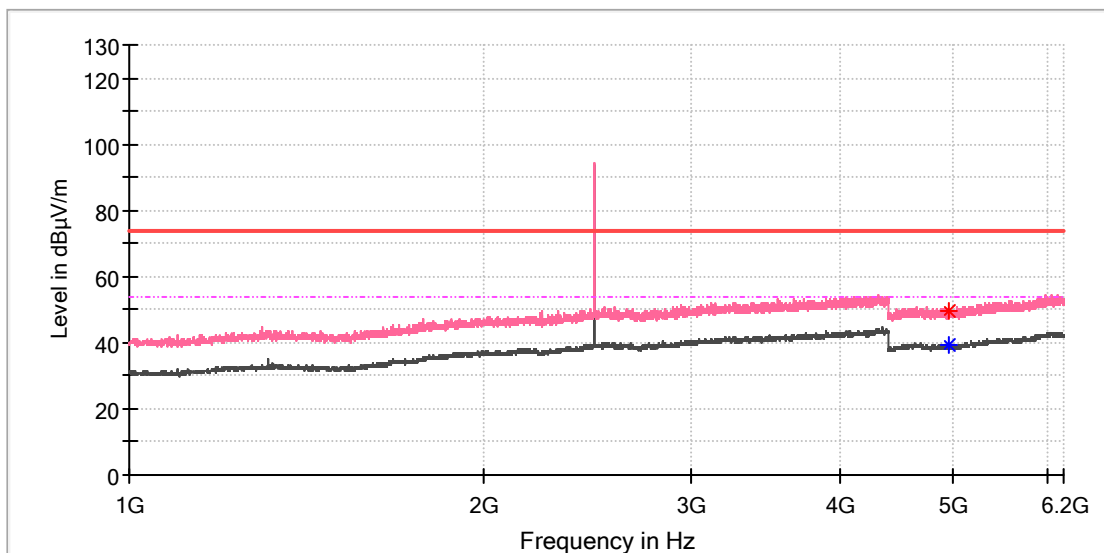
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4946.500000	50.39	---	74.00	23.61	150.0	H	150.0	11.8
4957.000000	---	39.13	54.00	14.87	150.0	H	333.0	11.8

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: ASM01G
 Test Mode: BR_DH5_High channel
 Order No/Sample No: 168476662/A003677431-019
 Test Voltage:: Battery DC
 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)
4948.000000	49.73	---	74.00	24.27	150.0	V	333.0	11.8
4950.000000	---	39.30	54.00	14.70	150.0	V	127.0	11.8

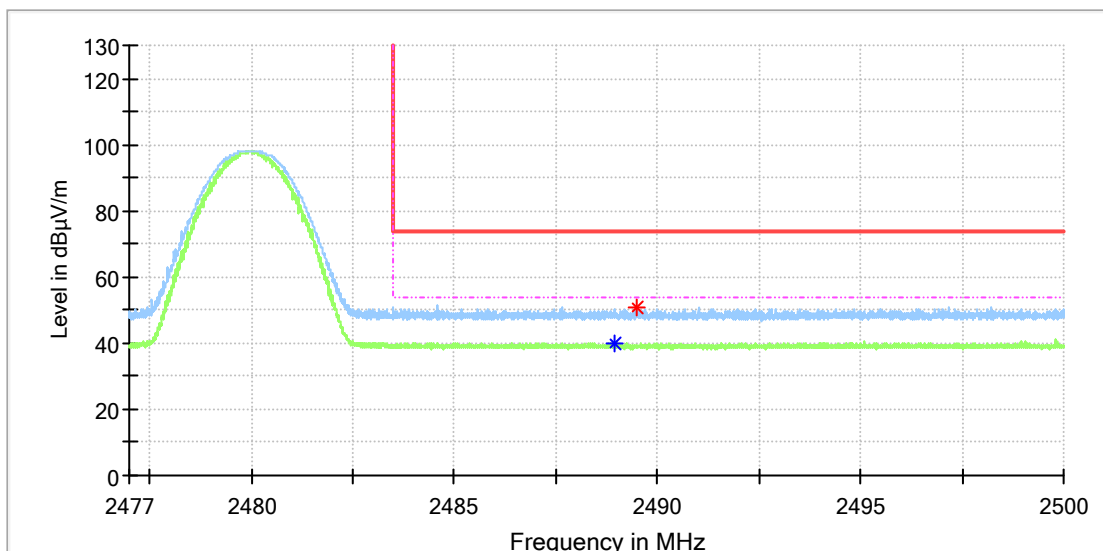
Final Result

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

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

EUT Information

EUT Name: Portable Bluetooth Speaker
 Model: ASM01G
 Test Mode: BR_DH5_High channel
 Order No/Sample No: 168476662/A003677431-019
 Test Voltage:: Battery DC
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

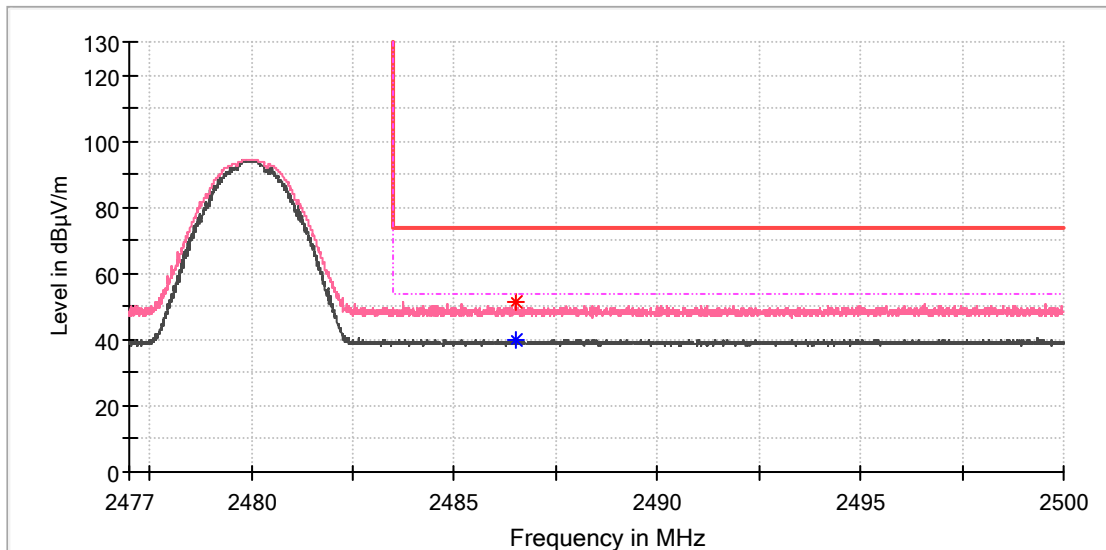
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2488.966177	---	39.90	54.00	14.10	150.0	H	339.0	7.4
2489.500000	50.99	---	74.00	23.01	150.0	H	200.0	7.4

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: ASM01G
 Test Mode: BR_DH5_High channel
 Order No/Sample No: 168476662/A003677431-019
 Test Voltage:: Battery DC
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

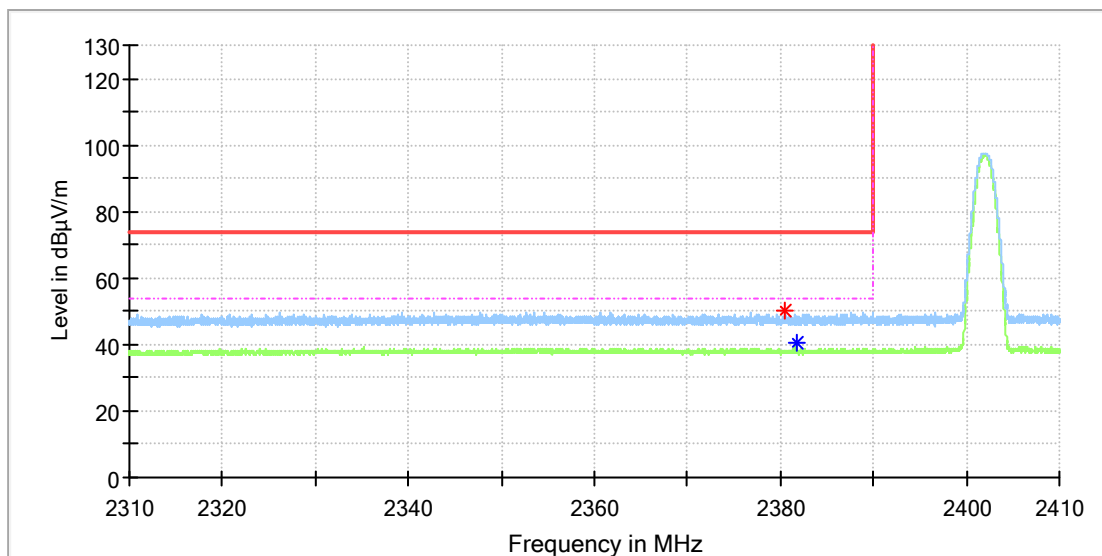
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.504412	---	39.93	54.00	14.07	150.0	V	298.0	7.4
2486.517647	51.36	---	74.00	22.64	150.0	V	151.0	7.4

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: ASM01G
 Test Mode: BR_DH5_Low channel
 Order No/Sample No: 168476662/A003677431-019
 Test Voltage:: Battery DC
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

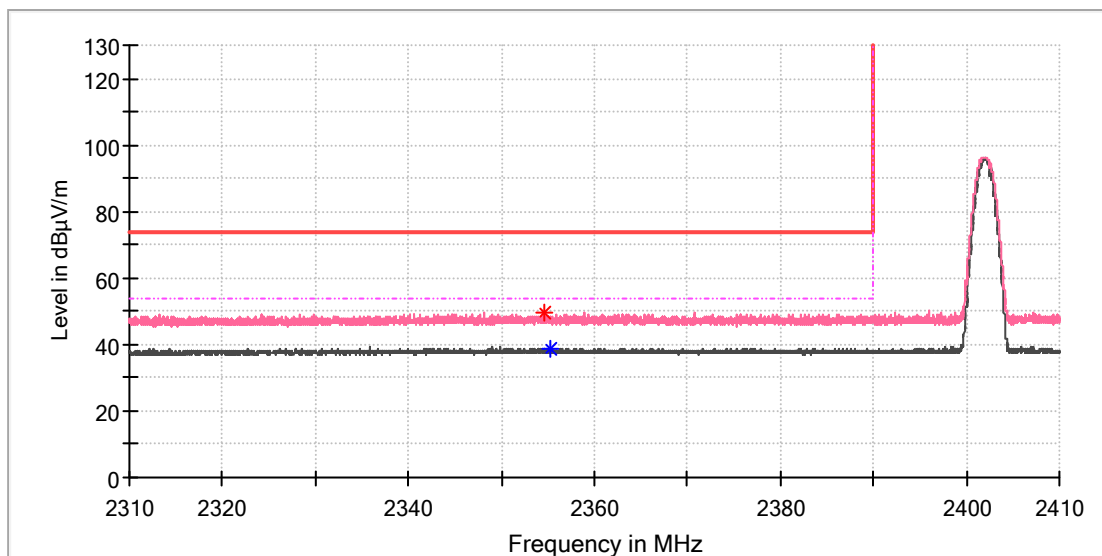
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2380.573529	49.90	---	74.00	24.11	150.0	H	264.0	7.0
2381.691177	---	40.47	54.00	13.53	150.0	H	264.0	7.0

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: ASM01G
 Test Mode: BR_DH5_Low channel
 Order No/Sample No: 168476662/A003677431-019
 Test Voltage:: Battery DC
 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)
2354.558824	49.35	---	74.00	24.65	150.0	V	62.0	6.9
2355.352941	---	38.89	54.00	15.11	150.0	V	0.0	6.9

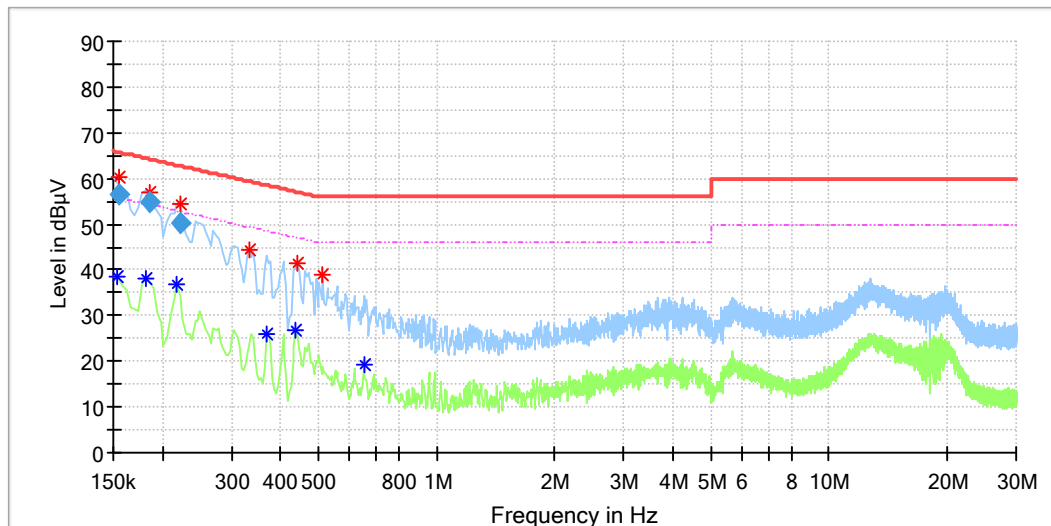
Final_Result

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

Appendix A.9: Conducted Emission on AC Mains

EUT Information

EUT Name:	Portable Bluetooth Speaker
Order Number:	168476662
Model:	ASM01G
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

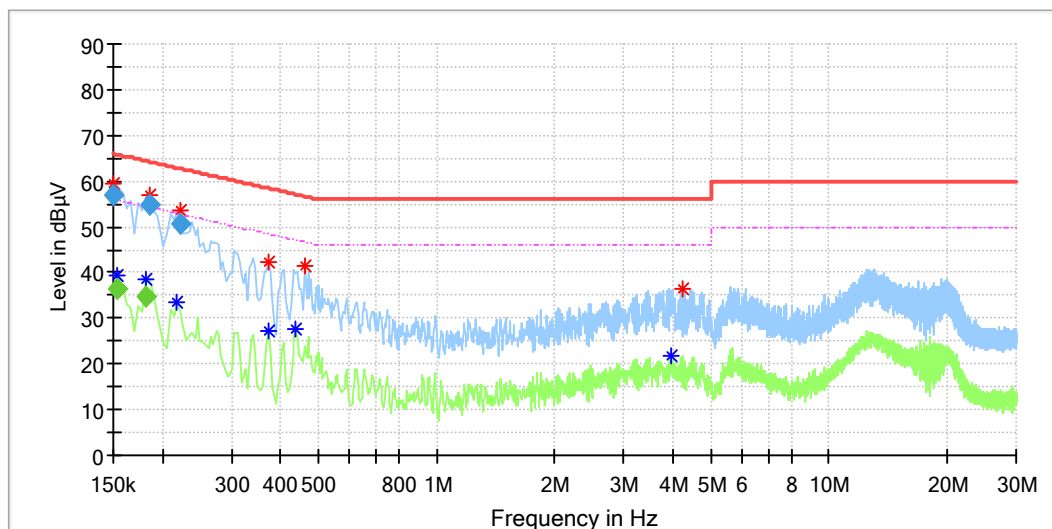
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	---	38.71	55.78	17.07	L1	9.9
0.154500	60.09	---	66.00	5.91	L1	9.9
0.182000	---	38.06	54.39	16.33	L1	9.9
0.185500	57.11	---	64.21	7.10	L1	9.9
0.218000	---	36.72	52.90	16.17	L1	9.9
0.221500	54.56	---	62.90	8.33	L1	9.9
0.334000	44.26	---	59.35	15.10	L1	9.9
0.370000	---	26.06	48.50	22.44	L1	9.9
0.438000	---	26.75	47.10	20.35	L1	9.9
0.442000	41.58	---	57.02	15.44	L1	9.9
0.514000	38.78	---	56.00	17.22	L1	10.0
0.654000	---	19.08	46.00	26.92	L1	10.0

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154500	56.49	---	65.75	9.26	1000.0	9.000	L1	9.9
0.185500	54.94	---	64.24	9.30	1000.0	9.000	L1	9.9
0.221500	50.33	---	62.76	12.43	1000.0	9.000	L1	9.9

EUT Information

EUT Name: Portable Bluetooth Speaker
 Order Number: 168476662
 Model: ASM01G
 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	59.55	---	66.00	6.45	N	9.8
0.154000	---	39.41	55.78	16.38	N	9.8
0.181500	---	38.33	54.21	15.88	N	9.8
0.185500	56.93	---	64.21	7.28	N	9.8
0.218000	---	33.56	52.90	19.34	N	9.8
0.221500	53.51	---	62.90	9.39	N	9.8
0.374000	---	27.17	48.41	21.24	N	9.8
0.374000	42.31	---	58.41	16.10	N	9.8
0.438000	---	27.55	47.10	19.54	N	9.8
0.462000	41.24	---	56.66	15.41	N	9.8
3.958000	---	21.83	46.00	24.17	N	9.9
4.254000	36.34	---	56.00	19.66	N	9.9

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	56.91	---	66.00	9.09	1000.0	9.000	N	9.8
0.154000	---	36.41	55.78	19.37	1000.0	9.000	N	9.8
0.181500	---	34.67	54.42	19.75	1000.0	9.000	N	9.8
0.185500	54.80	---	64.24	9.44	1000.0	9.000	N	9.8
0.221500	50.62	---	62.76	12.14	1000.0	9.000	N	9.8