

## Appendix A: Test Results of Bluetooth BR & EDR

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## Appendix A.1: 20dB Emission Bandwidth Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.933	2401.550	2402.483	---	---
		2441	0.936	2440.553	2441.489	---	---
		2480	0.948	2479.547	2480.495	---	---
3DH5	Ant1	2402	1.329	2401.343	2402.672	---	---
		2441	1.266	2440.367	2441.633	---	---
		2480	1.275	2479.361	2480.636	---	---

### Test Graphs





3DH5 Ant1 2402



3DH5 Ant1 2441



## Appendix A.2: Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.90138	2401.5554	2402.4568	---	---
		2441	0.89566	2440.5607	2441.4564	---	---
		2480	0.90725	2479.5579	2480.4652	---	---
3DH5	Ant1	2402	1.2221	2401.3912	2402.6133	---	---
		2441	1.2277	2440.3871	2441.6148	---	---
		2480	1.2566	2479.3770	2480.6336	---	---

### Test Graphs







3DH5\_Ant1\_2402



3DH5\_Ant1\_2441

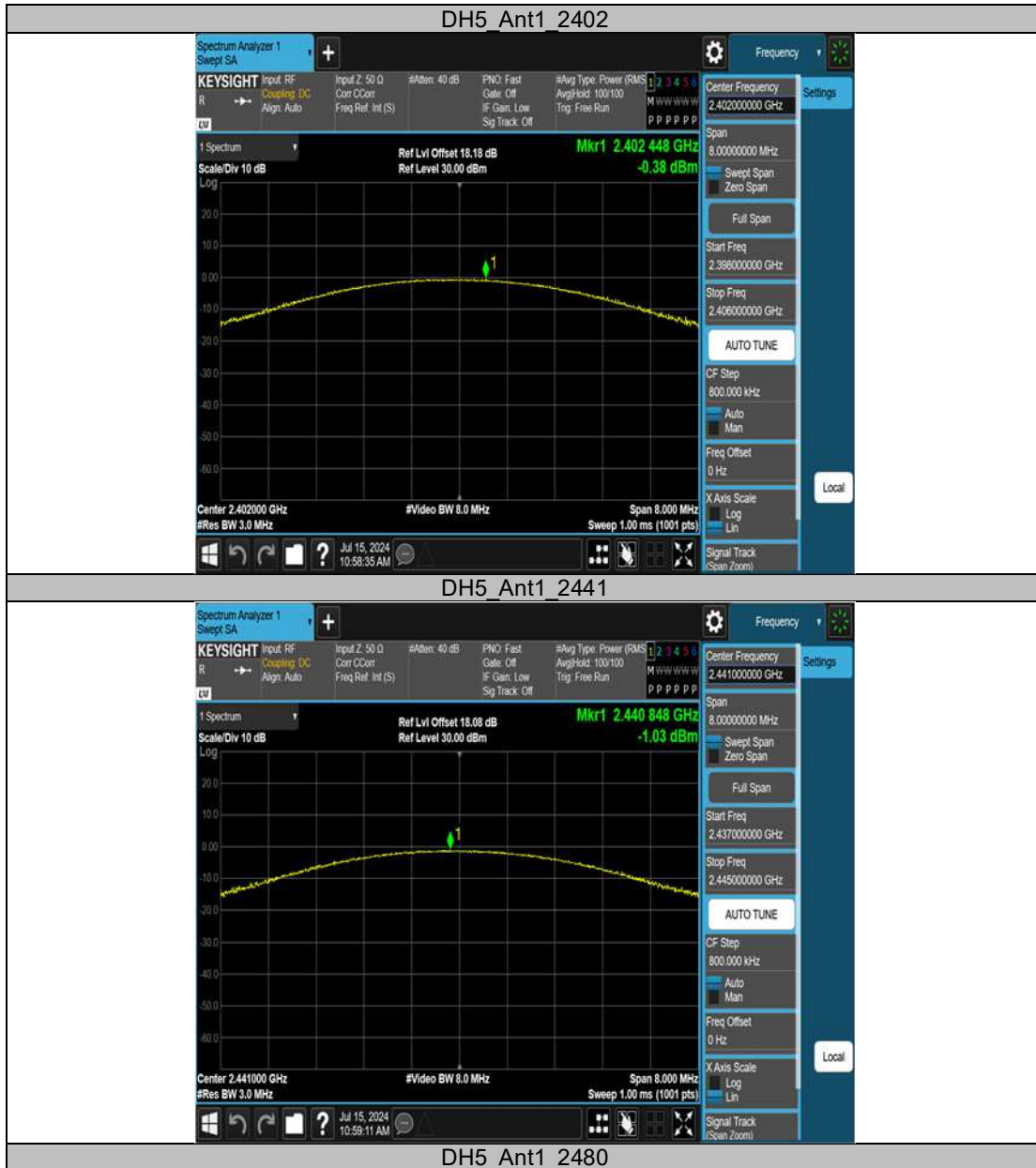




### Appendix A.3: Maximum conducted output power Test Result PK

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.38	≤20.97	PASS
		2441	-1.03	≤20.97	PASS
		2480	-1.34	≤20.97	PASS
3DH5	Ant1	2402	0.20	≤20.97	PASS
		2441	-0.66	≤20.97	PASS
		2480	-1.00	≤20.97	PASS

### Test Graphs PK

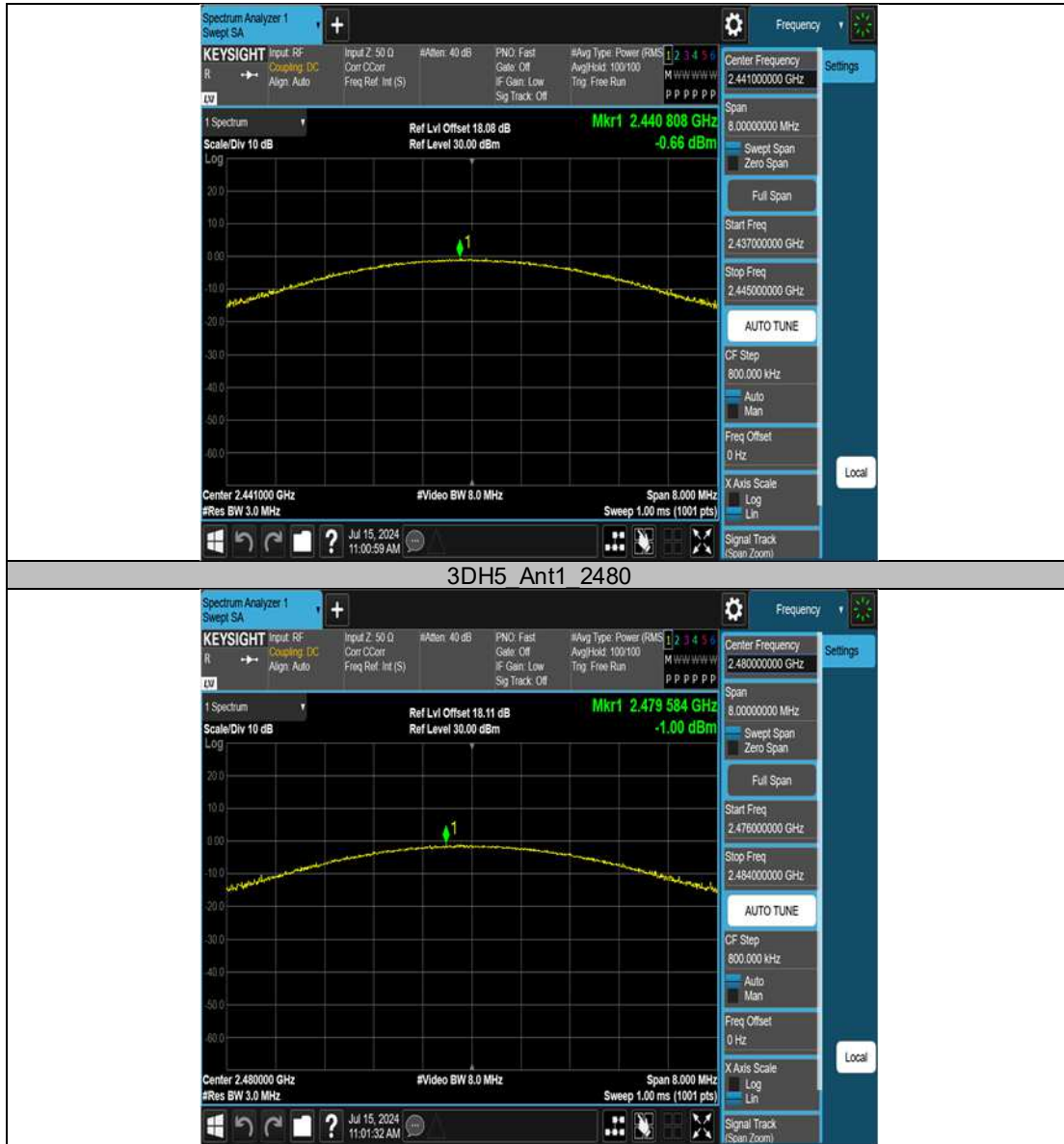




3DH5 Ant1 2402



3DH5 Ant1 2441



## Appendix A.4: Carrier frequency separation Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.77	≥0.632	PASS
3DH5	Ant1	Hop	1.018	≥0.886	PASS

### Test Graphs



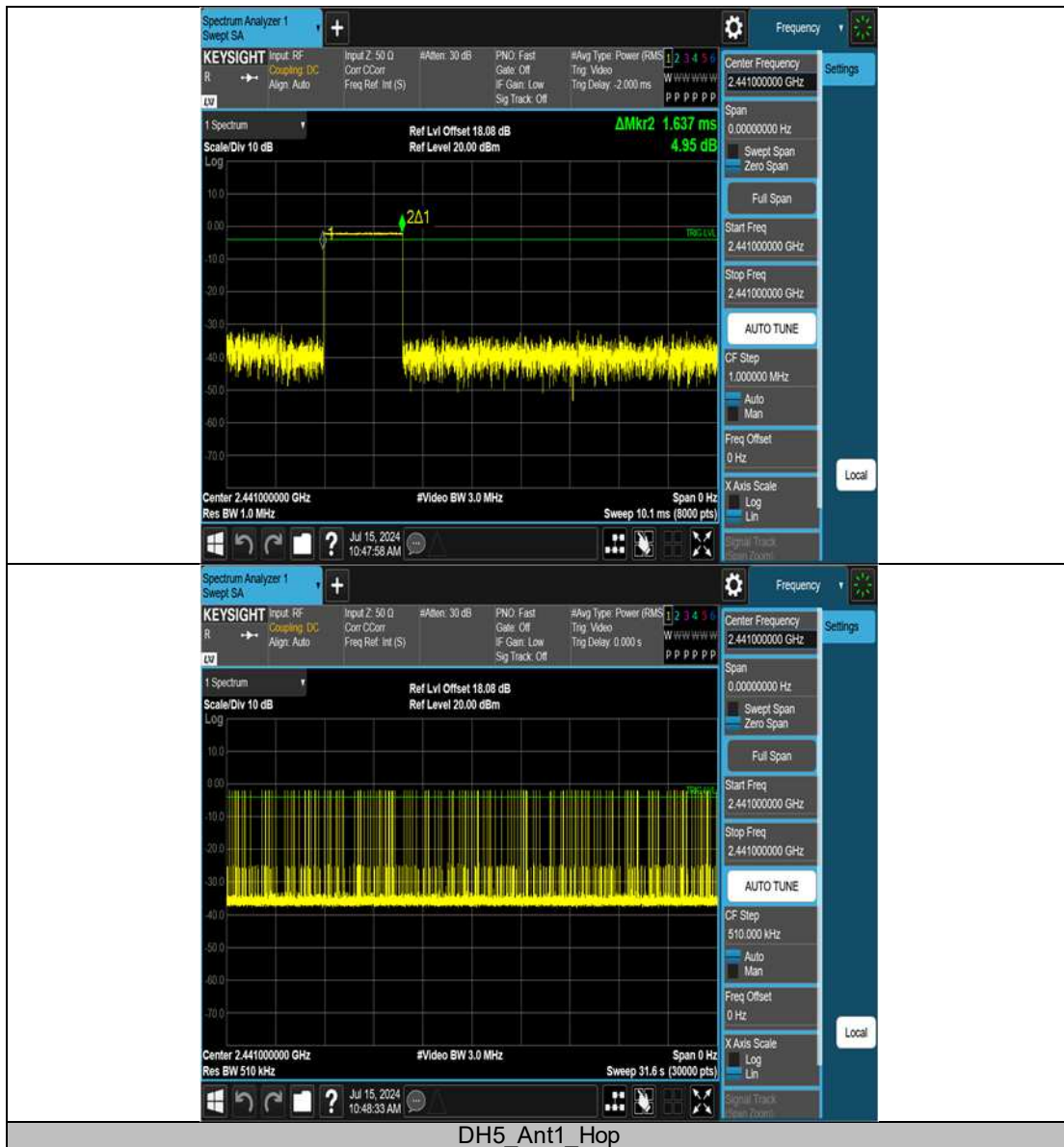


## Appendix A.5: Time of occupancy Test Result

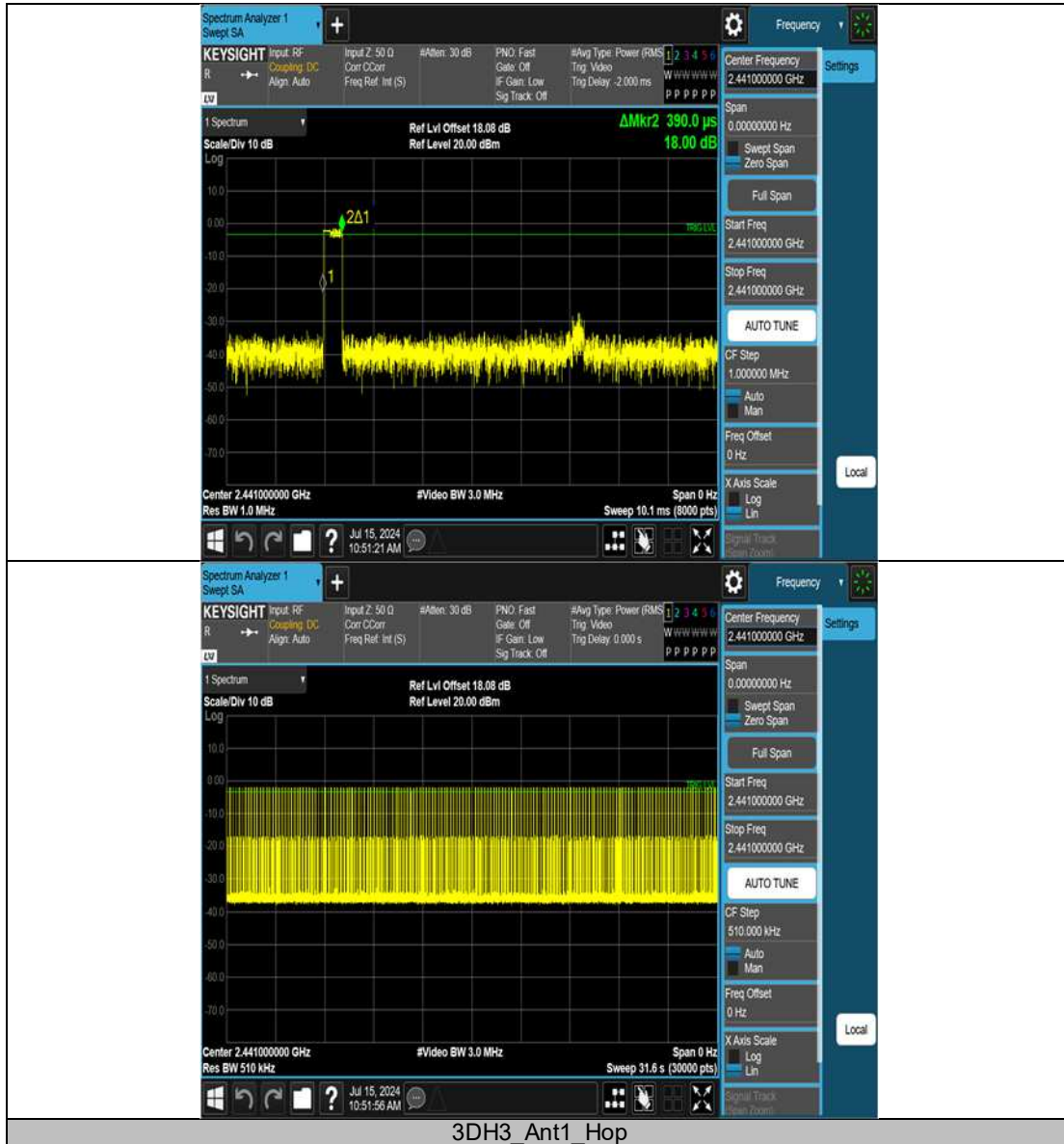
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	319	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.637	158	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.885	109	0.314	≤0.4	PASS
3DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.642	168	0.276	≤0.4	PASS
3DH5	Ant1	Hop	2.892	108	0.312	≤0.4	PASS

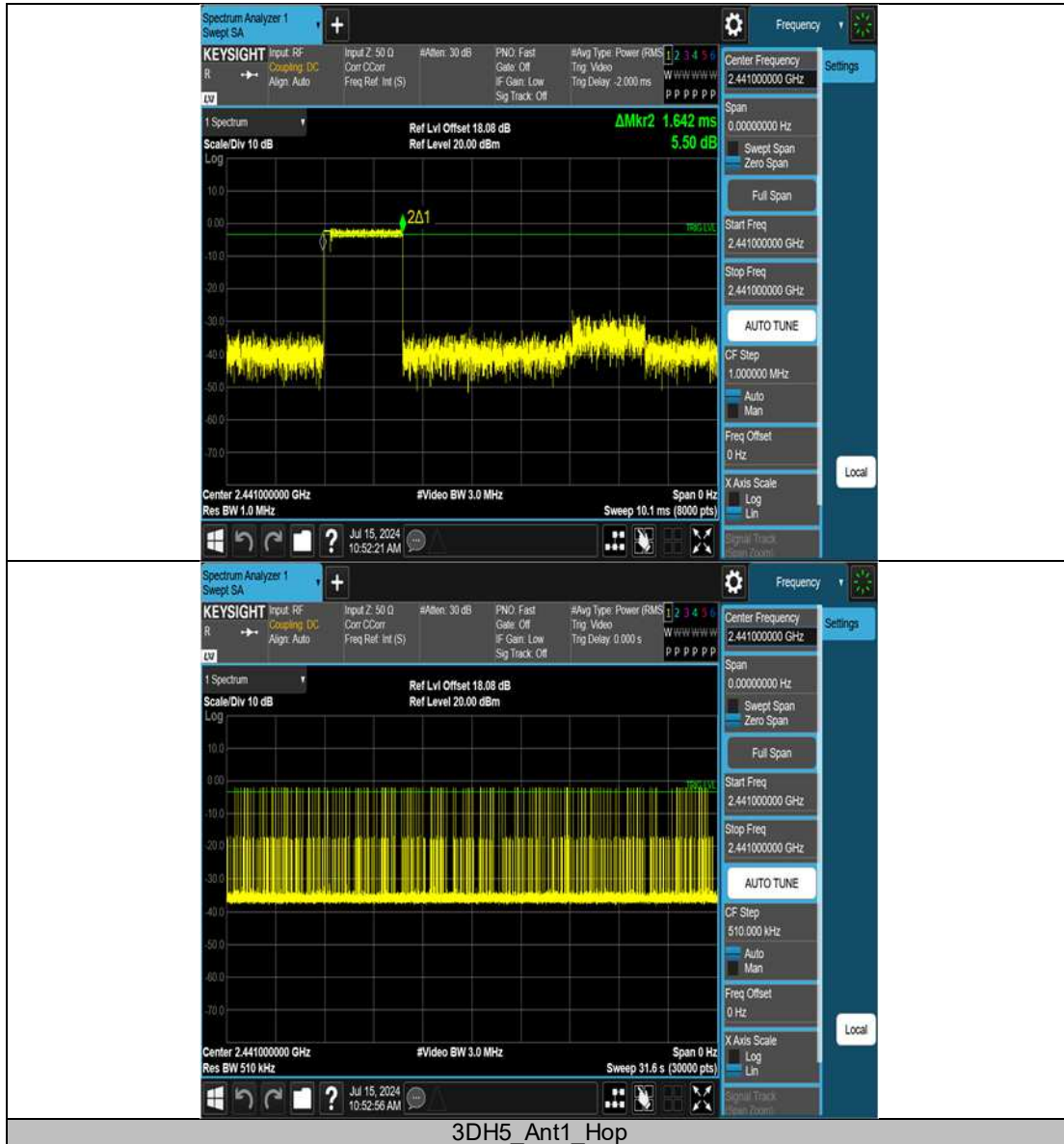
### Test Graphs



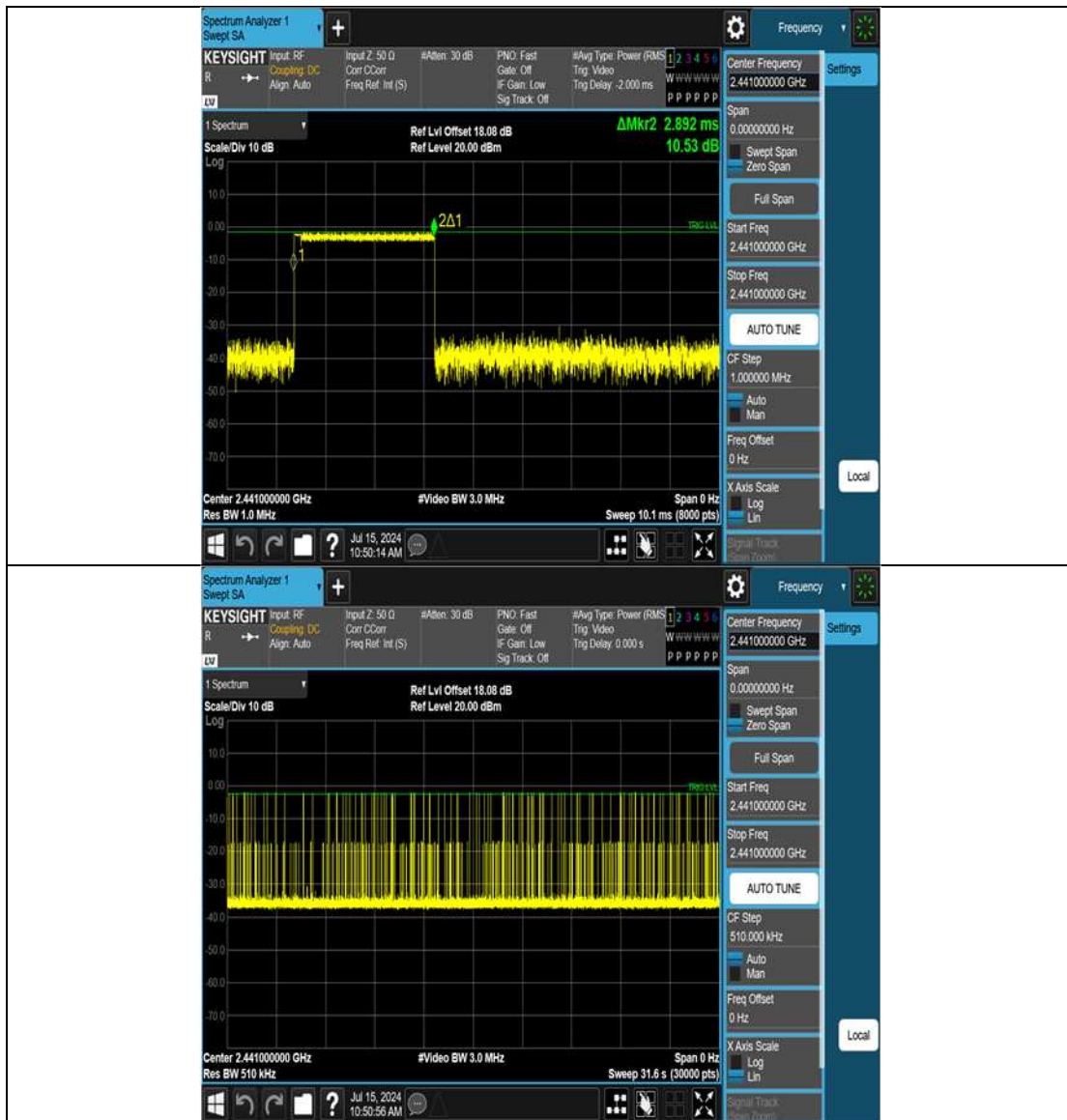










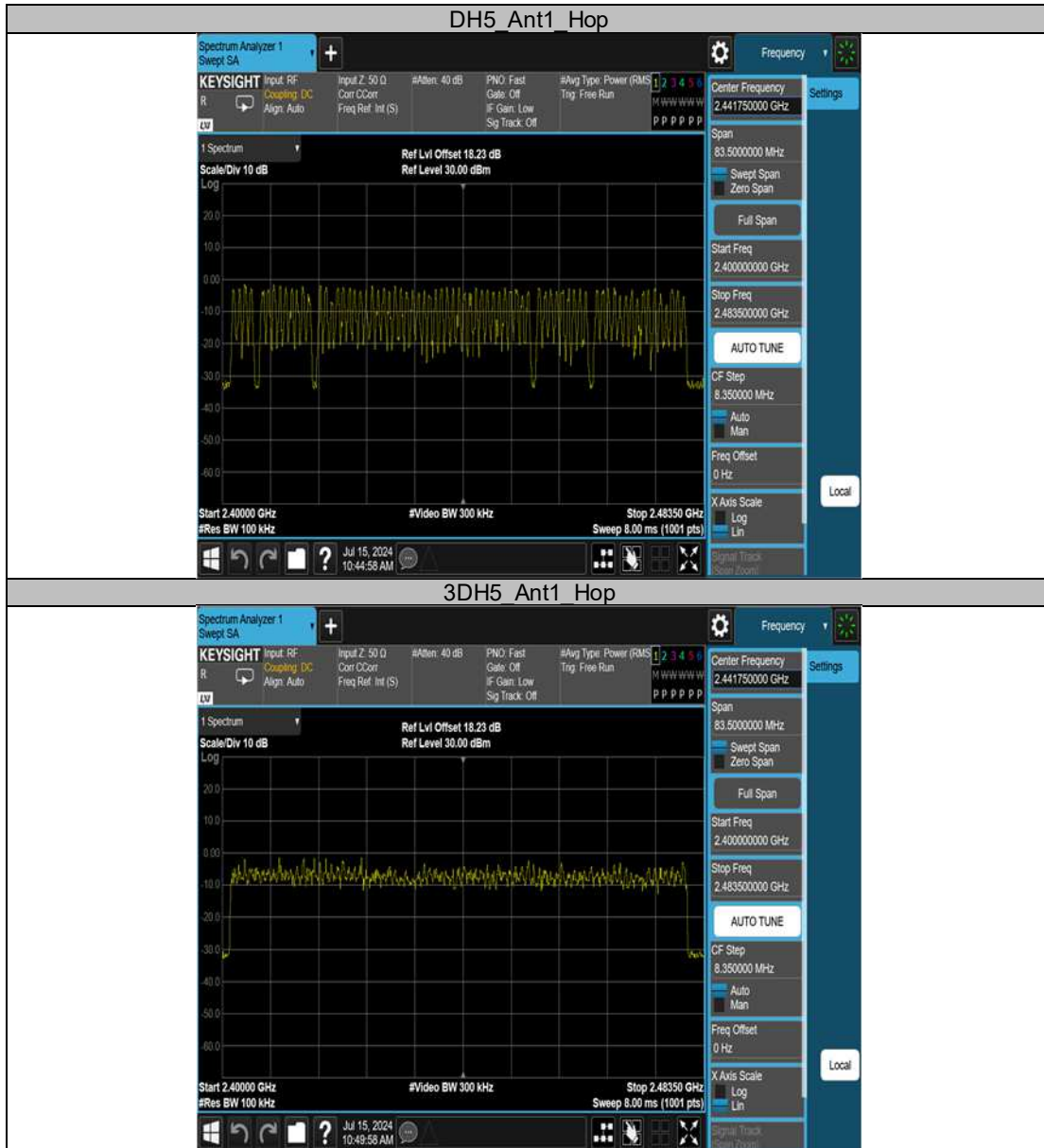




### Appendix A.6: Number of hopping channels Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

### Test Graphs



## Appendix A.7: Band edge measurements Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.73	-39.70	≤-21.73	PASS
DH5	Ant1	High	2480	-2.70	-42.58	≤-22.70	PASS
3DH5	Ant1	Low	2402	-1.59	-40.76	≤-21.59	PASS
3DH5	Ant1	High	2480	-2.68	-43.91	≤-22.68	PASS
DH5	Ant1	Hopping	2402	-1.72	-42.85	≤-21.72	PASS
DH5	Ant1	Hopping	2480	-3.47	-43.25	≤-23.47	PASS
3DH5	Ant1	Hopping	2402	-2.12	-45.37	≤-22.12	PASS
3DH5	Ant1	Hopping	2480	-6.23	-44.04	≤-26.23	PASS

### Test Graphs



3DH5 Ant1 Low 2402



3DH5 Ant1 High 2480



DH5 Ant1 Hopping 2402



DH5 Ant1 Hopping 2480



3DH5 Ant1 Hopping 2402



3DH5 Ant1 Hopping 2480

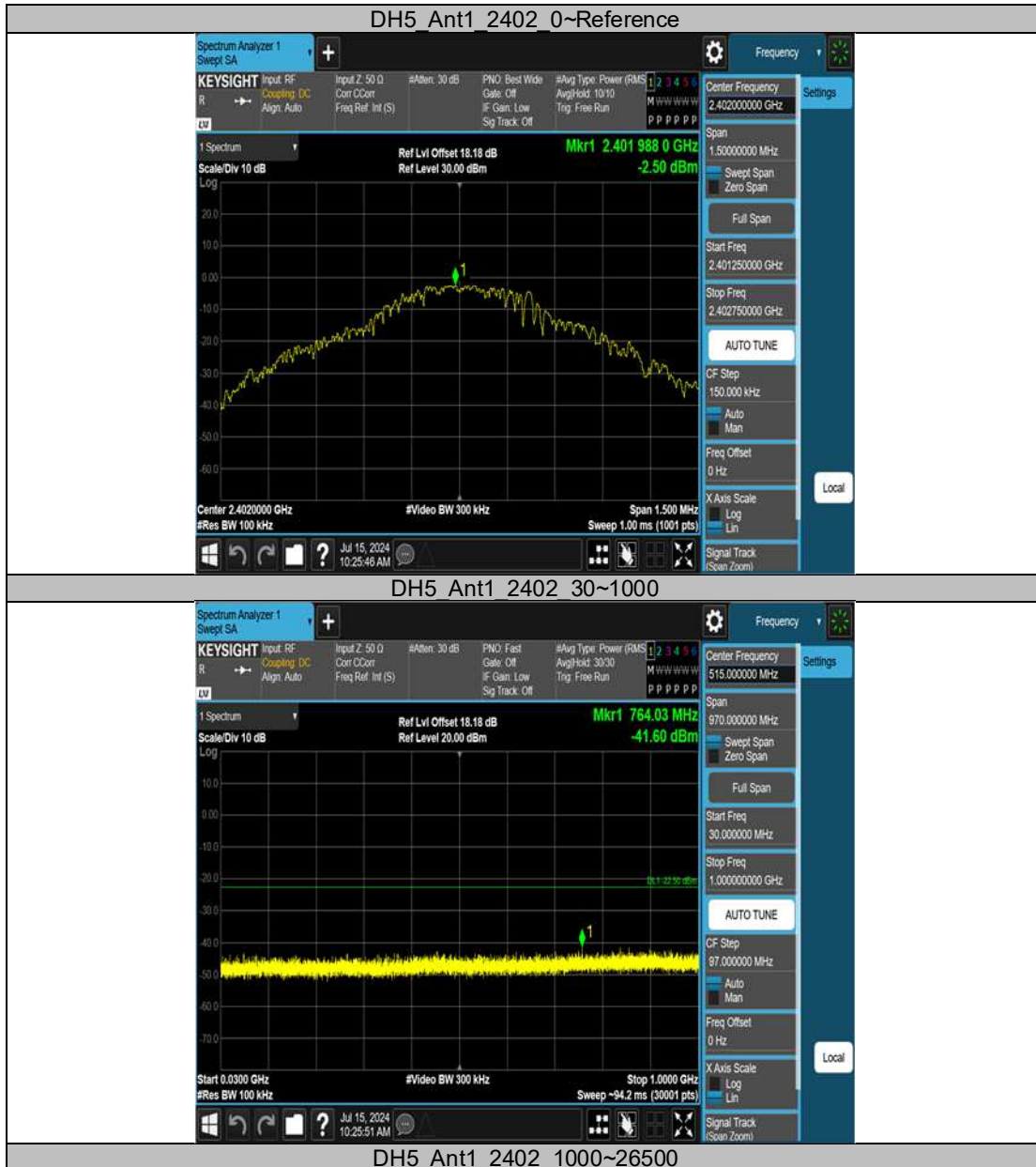




### Appendix A.8: Conducted Spurious Emission Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.50	-2.50	---	PASS
			30~1000	-2.50	-41.6	≤-22.5	PASS
			1000~26500	-2.50	-32.22	≤-22.5	PASS
		2441	Reference	-3.00	-3.00	---	PASS
			30~1000	-3.00	-42.11	≤-23	PASS
			1000~26500	-3.00	-32.84	≤-23	PASS
		2480	Reference	-3.46	-3.46	---	PASS
			30~1000	-3.46	-42.36	≤-23.46	PASS
			1000~26500	-3.46	-32.43	≤-23.46	PASS
3DH5	Ant1	2402	Reference	-5.58	-5.58	---	PASS
			30~1000	-5.58	-41.92	≤-25.58	PASS
			1000~26500	-5.58	-32.6	≤-25.58	PASS
		2441	Reference	-3.64	-3.64	---	PASS
			30~1000	-3.64	-42.4	≤-23.64	PASS
			1000~26500	-3.64	-31.97	≤-23.64	PASS
		2480	Reference	-5.93	-5.93	---	PASS
			30~1000	-5.93	-42.49	≤-25.93	PASS
			1000~26500	-5.93	-33.05	≤-25.93	PASS

### Test Graphs

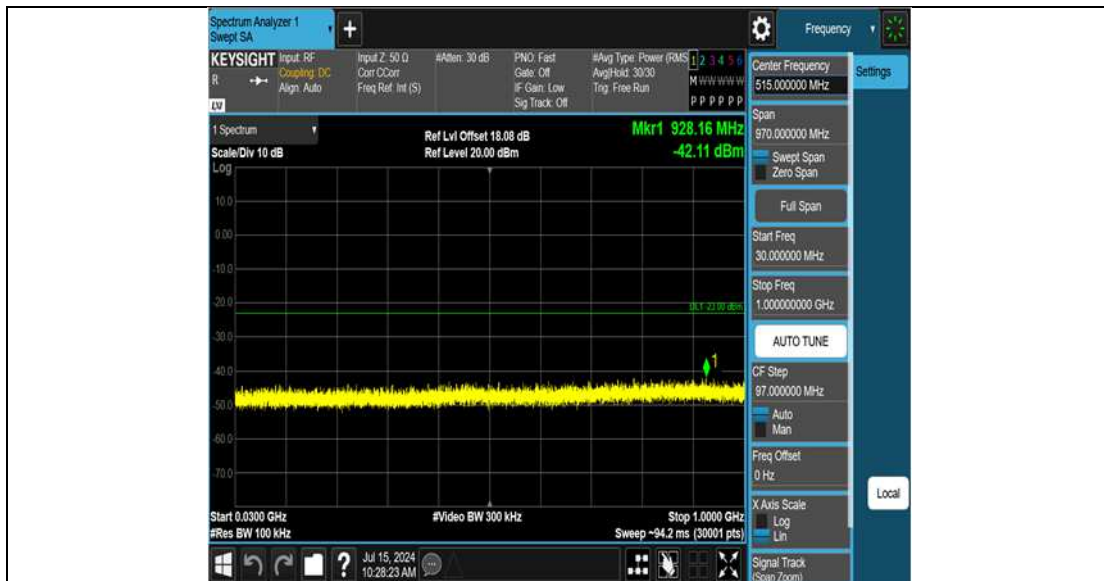




DH5 Ant1 2441 0~Reference



DH5 Ant1 2441 30~1000



DH5 Ant1 2441 1000~26500



DH5 Ant1 2480 0-Reference



DH5 Ant1 2480 30~1000



DH5 Ant1 2480 1000~26500



3DH5 Ant1 2402 0~Reference



3DH5 Ant1 2402 30~100





3DH5 Ant1 2402 1000~26500



3DH5 Ant1 2441 0~Reference





3DH5 Ant1 2441 30~1000



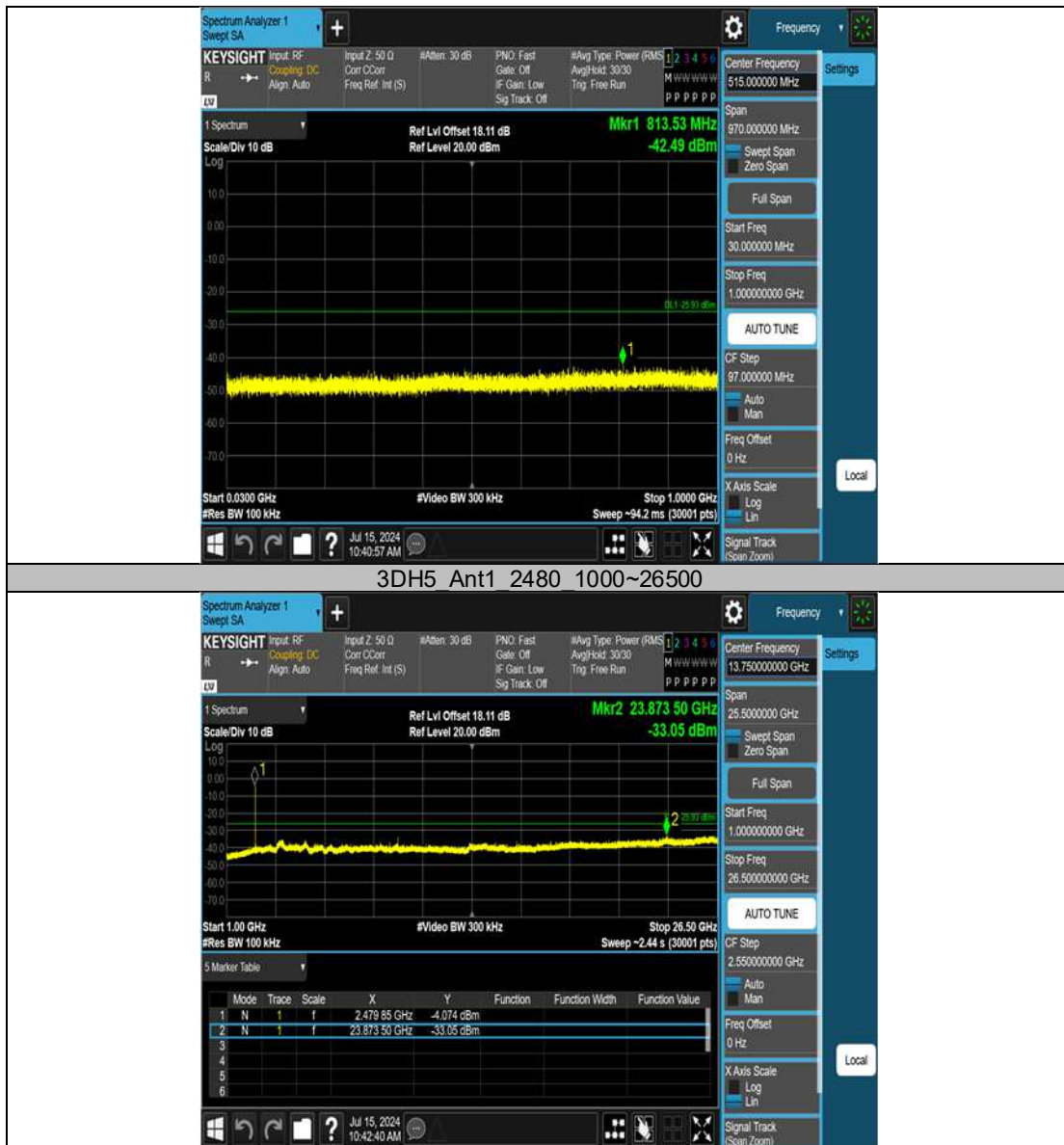
3DH5 Ant1 2441 1000~26500



3DH5 Ant1 2480 0~Reference



3DH5 Ant1 2480 30~100



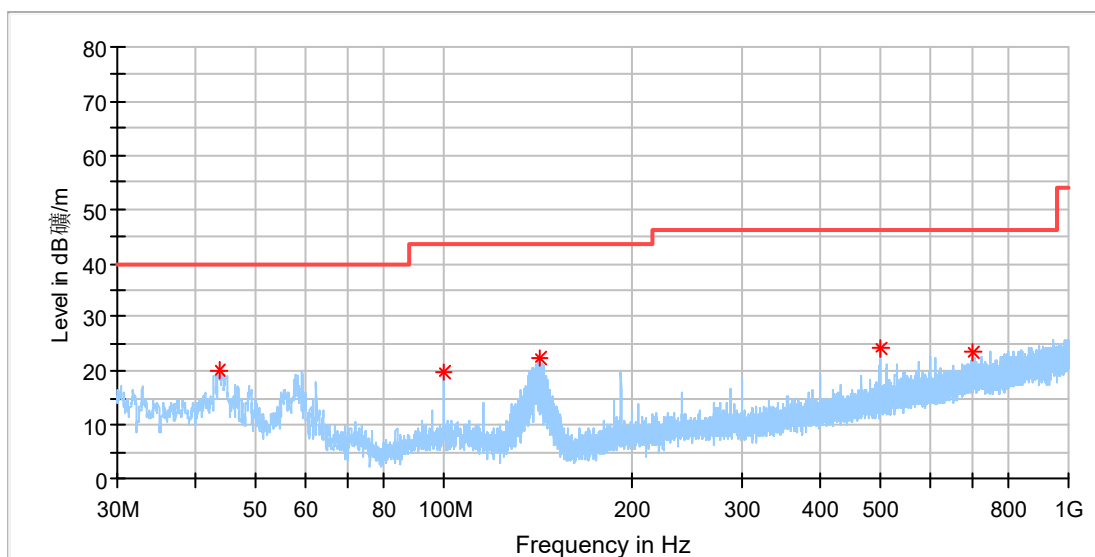
## Appendix A.9: Test Results of Radiated Spurious Emissions

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.

### EUT Information

EUT Name:	Bluetooth Speaker
Model:	X5i
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	168490934/A003762173-002
Test Voltage:.	DC 3.3V
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



### Critical\_Freqs

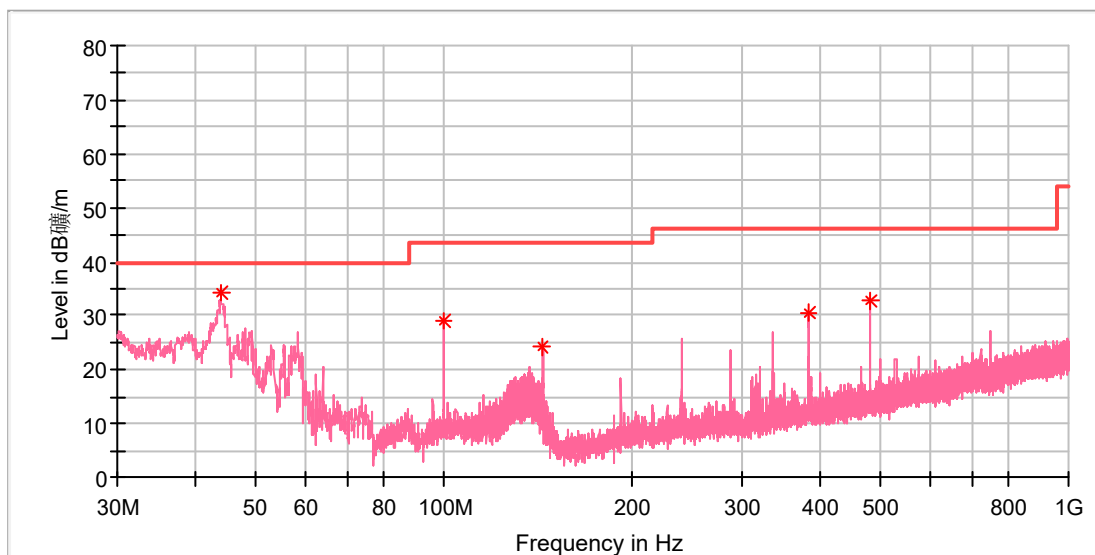
Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.691923	20.16	40.00	19.84	100.0	H	103.0	-19.4
99.989231	19.89	43.50	23.61	100.0	H	134.0	-19.3
142.408077	22.36	43.50	21.14	100.0	H	78.0	-22.6
500.002308	24.23	46.00	21.77	100.0	H	187.0	-12.2
700.046154	23.46	46.00	22.54	100.0	H	0.0	-8.4

### Final Result

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

## EUT Information

EUT Name:	Bluetooth Speaker
Model:	X5i
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	168490934/A003762173-002
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



## Critical Freqs

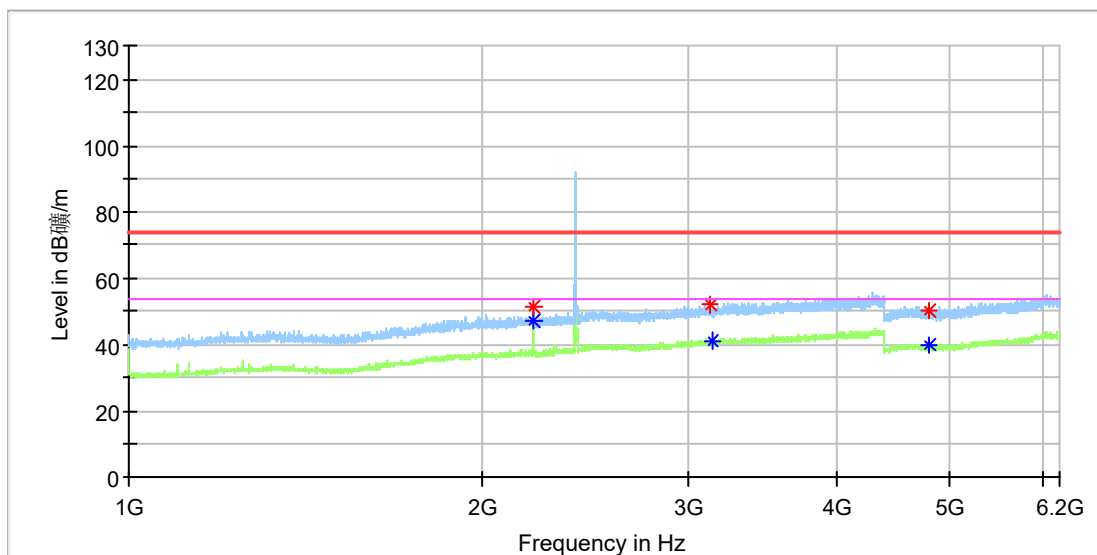
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.027692	34.15	40.00	5.85	100.0	V	140.0	-19.3
99.989231	29.06	43.50	14.44	100.0	V	168.0	-19.3
144.012308	24.36	43.50	19.14	100.0	V	6.0	-22.6
383.900769	30.47	46.00	15.53	100.0	V	159.0	-14.5
480.042692	32.72	46.00	13.28	100.0	V	53.0	-12.6

## Final Result

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

## EUT Information

EUT Name:	Bluetooth Speaker
Model:	X5i
Test Mode:	BR DH5_Low Channel
Order No/Sample No:	168490934/A003762173-002
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



## Critical Freqs

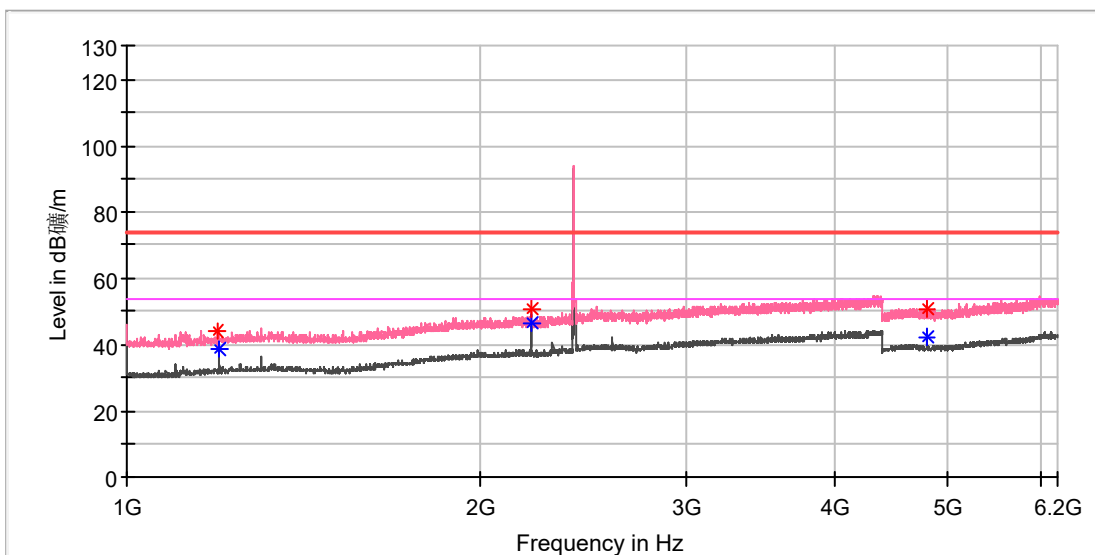
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2210.000000	51.36	---	74.00	22.64	150.0	H	40.0	6.3
2210.000000	---	47.27	54.00	6.73	150.0	H	40.0	6.3
3123.000000	51.97	---	74.00	22.03	150.0	H	2.0	8.6
3138.500000	---	41.00	54.00	13.00	150.0	H	127.0	8.6
4798.000000	50.42	---	74.00	23.58	150.0	H	214.0	11.8
4801.000000	---	39.84	54.00	14.16	150.0	H	315.0	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: Bluetooth Speaker  
 Model: X5i  
 Test Mode: BR DH5\_Low Channel  
 Order No/Sample No: 168490934/A003762173-002  
 Test Voltage:: DC 3.3V  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Lich Chen  
 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)
1194.000000	44.42	---	74.00	29.58	150.0	V	17.0	1.1
1200.000000	---	38.58	54.00	15.42	150.0	V	50.0	1.1
2210.000000	---	46.69	54.00	7.31	150.0	V	288.0	6.3
2210.000000	50.86	---	74.00	23.14	150.0	V	288.0	6.3
4800.500000	50.87	---	74.00	23.13	150.0	V	329.0	11.8
4804.000000	---	42.32	54.00	11.68	150.0	V	251.0	11.8

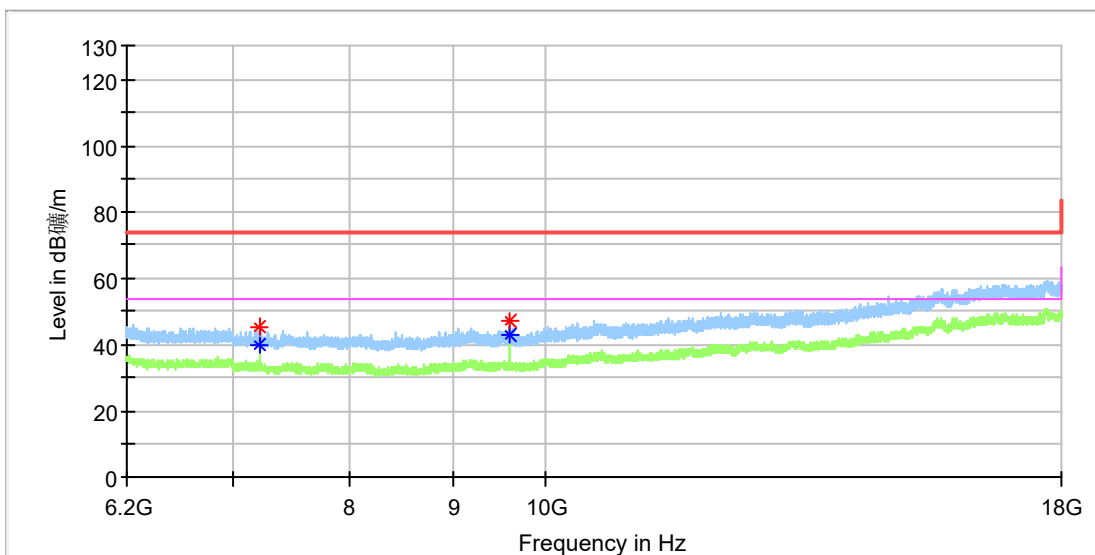
### Final Result

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



### EUT Information

EUT Name:	Bluetooth Speaker
Model:	X5i
Test Mode:	BR DH5_Low Channel
Order No/Sample No:	168490934/A003762173-002
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



### Critical Freqs

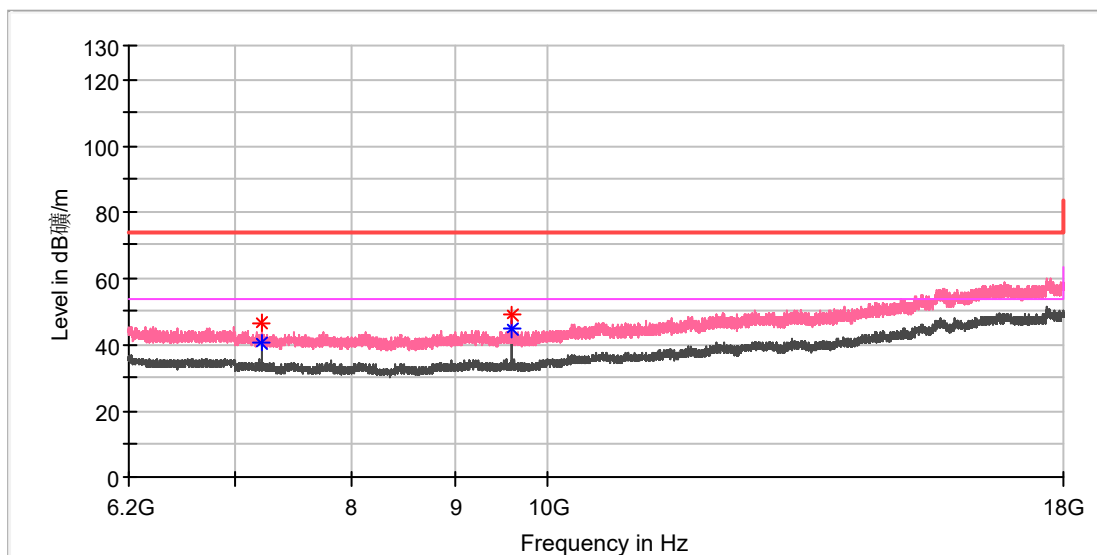
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	45.49	---	74.00	28.51	150.0	H	291.0	8.8
7205.950000	---	40.05	54.00	13.95	150.0	H	291.0	8.8
9601.841667	---	43.19	54.00	10.81	150.0	H	98.0	10.4
9602.333333	47.17	---	74.00	26.83	150.0	H	98.0	10.4

### Final Result

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

## EUT Information

EUT Name:	Bluetooth Speaker
Model:	X5i
Test Mode:	BR DH5_Low Channel
Order No/Sample No:	168490934/A003762173-002
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
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)
7205.950000	---	40.27	54.00	13.73	150.0	V	255.0	8.8
7206.441667	46.48	---	74.00	27.52	150.0	V	230.0	8.8
9601.841667	---	44.86	54.00	9.14	150.0	V	230.0	10.4
9602.333333	48.80	---	74.00	25.20	150.0	V	230.0	10.4

## Final Result

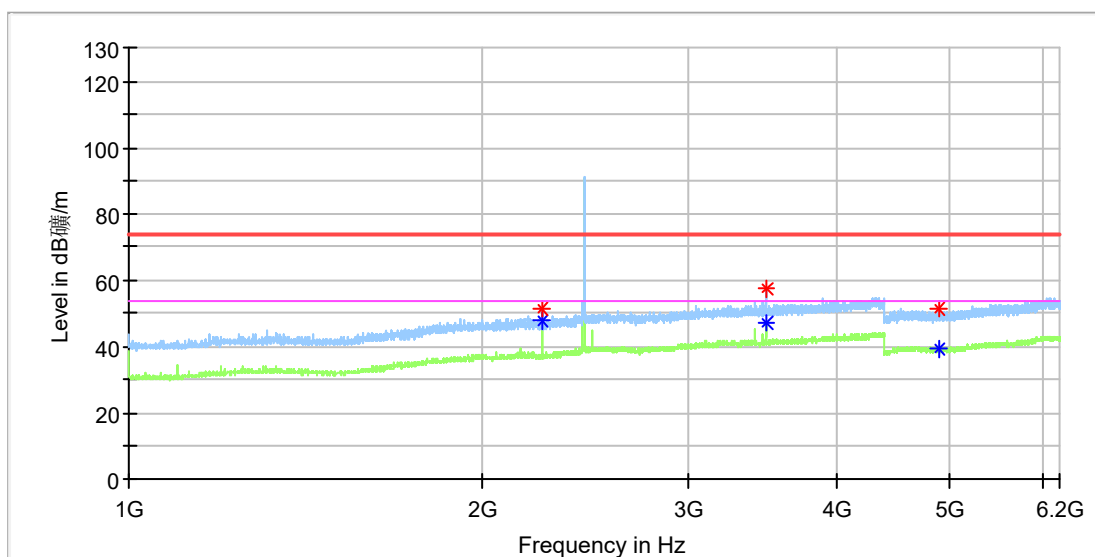
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---





## EUT Information

EUT Name: Bluetooth Speaker  
 Model: X5i  
 Test Mode: BR DH5\_Mid channel  
 Order No/Sample No: 168490934/A003762173-002  
 Test Voltage:: DC 3.3V  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Lich Chen  
 Reviewed By: Terry Yin



## Critical Freqs

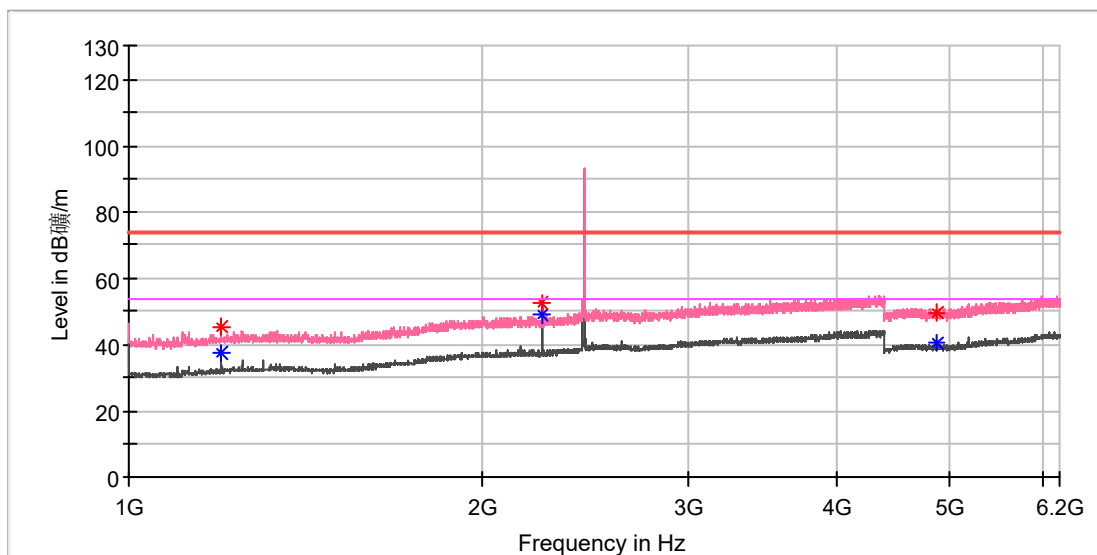
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2248.500000	51.52	---	74.00	22.48	150.0	H	92.0	6.5
2249.000000	---	47.78	54.00	6.22	150.0	H	58.0	6.5
3486.000000	57.59	---	74.00	16.41	150.0	H	295.0	8.9
3486.000000	---	47.26	54.00	6.74	150.0	H	295.0	8.9
4889.000000	51.43	---	74.00	22.57	150.0	H	248.0	11.8
4889.500000	---	39.34	54.00	14.66	150.0	H	87.0	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:	Bluetooth Speaker
Model:	X5i
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	168490934/A003762173-002
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



## Critical Freqs

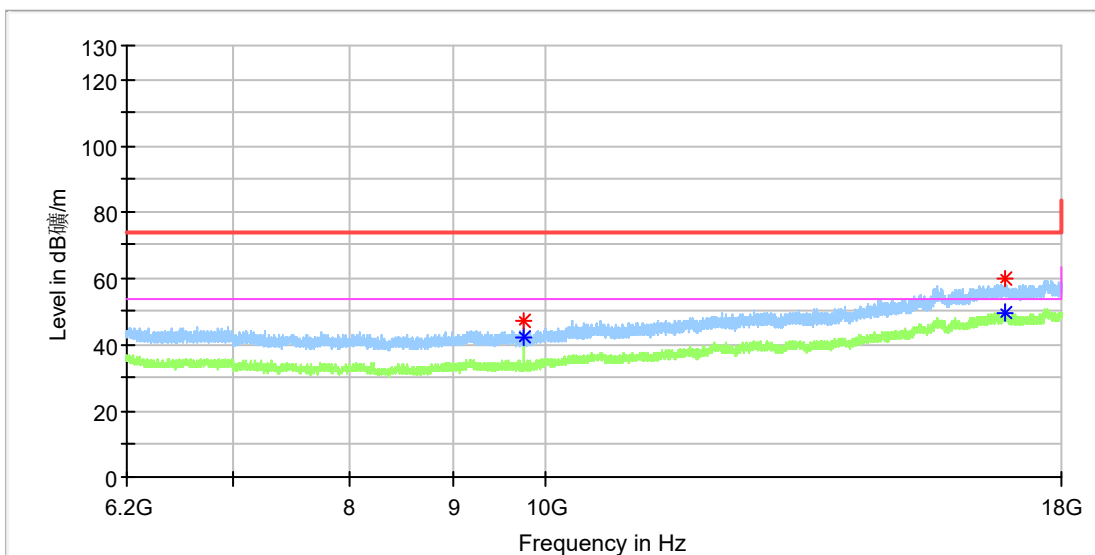
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	---	37.52	54.00	16.48	150.0	V	215.0	1.1
1200.000000	45.15	---	74.00	28.85	150.0	V	215.0	1.1
2249.000000	---	48.74	54.00	5.26	150.0	V	82.0	6.5
2249.000000	52.78	---	74.00	21.22	150.0	V	82.0	6.5
4878.500000	49.66	---	74.00	24.34	150.0	V	65.0	11.8
4882.000000	---	40.34	54.00	13.66	150.0	V	38.0	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:	Bluetooth Speaker
Model:	X5i
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	168490934/A003762173-002
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
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)
9753.766667	47.14	---	74.00	26.86	150.0	H	97.0	10.4
9753.766667	---	42.53	54.00	11.47	150.0	H	97.0	10.4
16882.933333	---	49.66	54.00	4.34	150.0	H	132.0	22.2
16894.733333	59.58	---	74.00	14.42	150.0	H	359.0	22.3

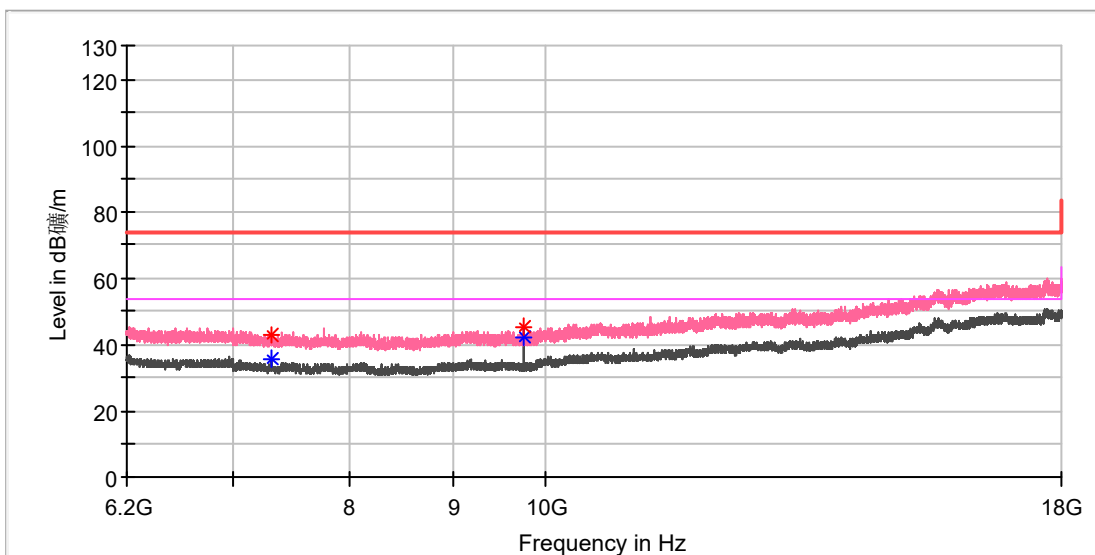
## Final Result

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



### EUT Information

EUT Name:	Bluetooth Speaker
Model:	X5i
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	168490934/A003762173-002
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



### Critical Freqs

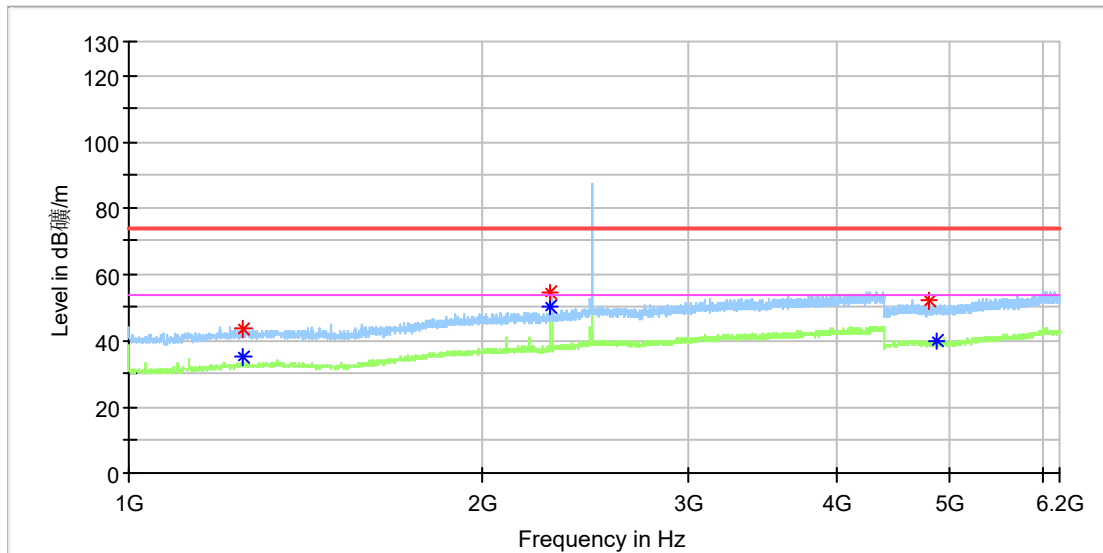
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7314.116667	43.13	---	74.00	30.87	150.0	V	286.0	8.2
7314.116667	---	35.81	54.00	18.19	150.0	V	286.0	8.2
9753.766667	---	42.09	54.00	11.91	150.0	V	246.0	10.4
9754.750000	45.11	---	74.00	28.89	150.0	V	246.0	10.4

### Final Result

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

## EUT Information

EUT Name:	Bluetooth Speaker
Model:	X5i
Test Mode:	BR DH5_High Channel
Order No/Sample No:	168490934/A003762173-002
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



## Critical Freqs

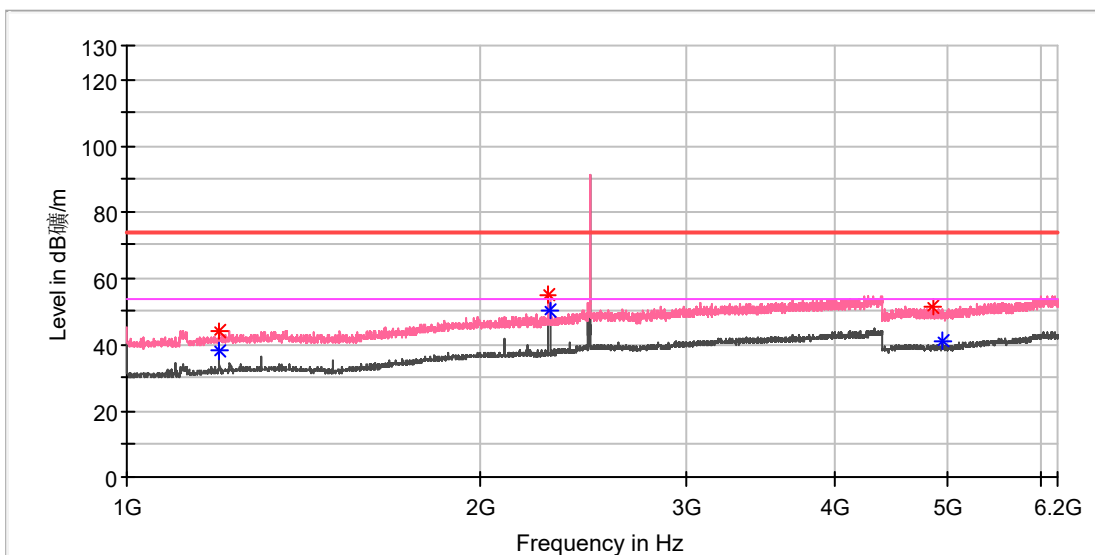
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.500000	43.57	---	74.00	30.43	150.0	H	220.0	1.9
1250.000000	---	34.81	54.00	19.19	150.0	H	0.0	1.9
2287.500000	54.12	---	74.00	19.88	150.0	H	33.0	6.4
2287.500000	---	50.38	54.00	3.62	150.0	H	33.0	6.4
4804.000000	51.73	---	74.00	22.27	150.0	H	345.0	11.8
4869.500000	---	39.64	54.00	14.36	150.0	H	1.0	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: Bluetooth Speaker  
 Model: X5i  
 Test Mode: BR DH5\_High Channel  
 Order No/Sample No: 168490934/A003762173-002  
 Test Voltage:: DC 3.3V  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Lich Chen  
 Reviewed By: Terry Yin



## Critical Freqs

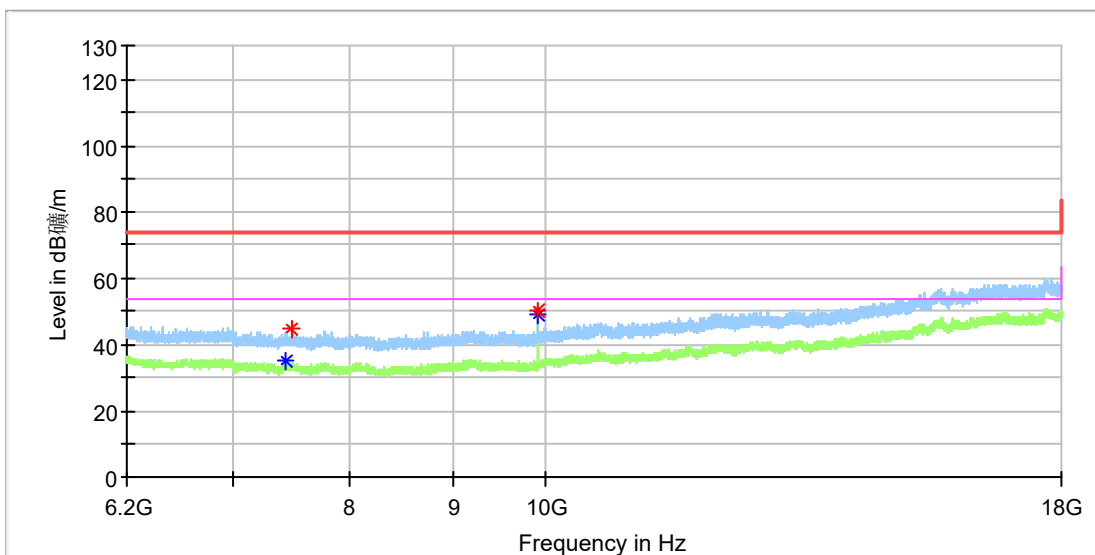
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	---	37.99	54.00	16.01	150.0	V	220.0	1.1
1200.000000	44.16	---	74.00	29.84	150.0	V	220.0	1.1
2288.000000	55.26	---	74.00	18.74	150.0	V	60.0	6.4
2288.500000	---	50.45	54.00	3.55	150.0	V	60.0	6.4
4850.500000	51.63	---	74.00	22.37	150.0	V	1.0	11.8
4957.000000	---	41.28	54.00	12.72	150.0	V	261.0	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: Bluetooth Speaker  
 Model: X5i  
 Test Mode: BR DH5\_High Channel  
 Order No/Sample No: 168490934/A003762173-002  
 Test Voltage:: DC 3.3V  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Lich Chen  
 Reviewed By: Terry Yin



### Critical Freqs

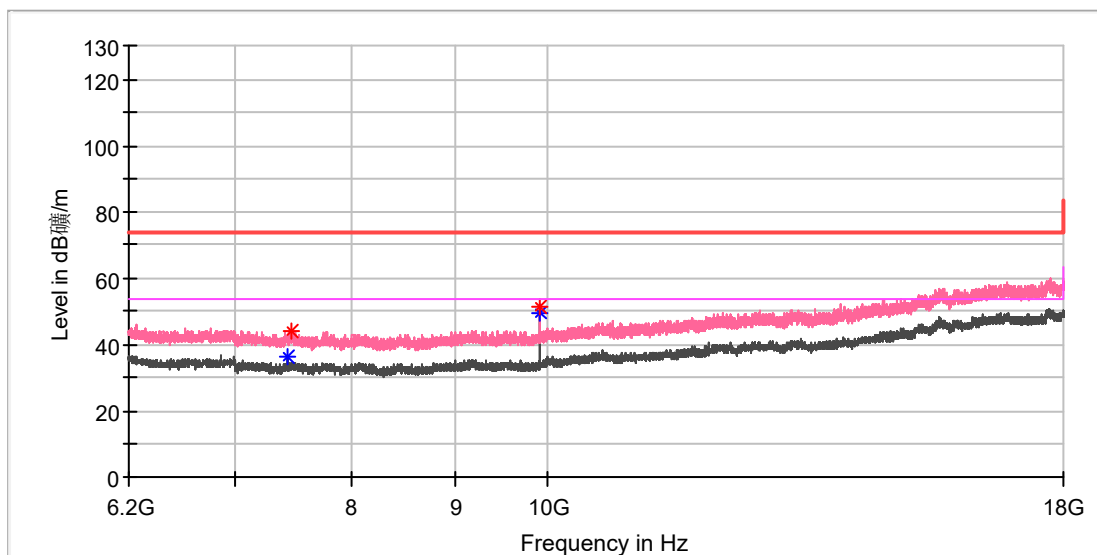
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7433.591667	---	35.14	54.00	18.86	150.0	H	275.0	8.4
7483.250000	44.68	---	74.00	29.32	150.0	H	154.0	8.7
9914.050000	---	49.11	54.00	4.89	150.0	H	96.0	10.8
9914.050000	50.40	---	74.00	23.60	150.0	H	96.0	10.8

### Final Result

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

### EUT Information

EUT Name: Bluetooth Speaker  
 Model: X5i  
 Test Mode: BR DH5\_High Channel  
 Order No/Sample No: 168490934/A003762173-002  
 Test Voltage:: DC 3.3V  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Lich Chen  
 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)
7434.083333	---	36.03	54.00	17.97	150.0	V	165.0	8.4
7468.500000	44.32	---	74.00	29.68	150.0	V	81.0	8.6
9914.050000	---	49.47	54.00	4.53	150.0	V	227.0	10.8
9914.050000	51.24	---	74.00	22.76	150.0	V	227.0	10.8

### Final Result

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





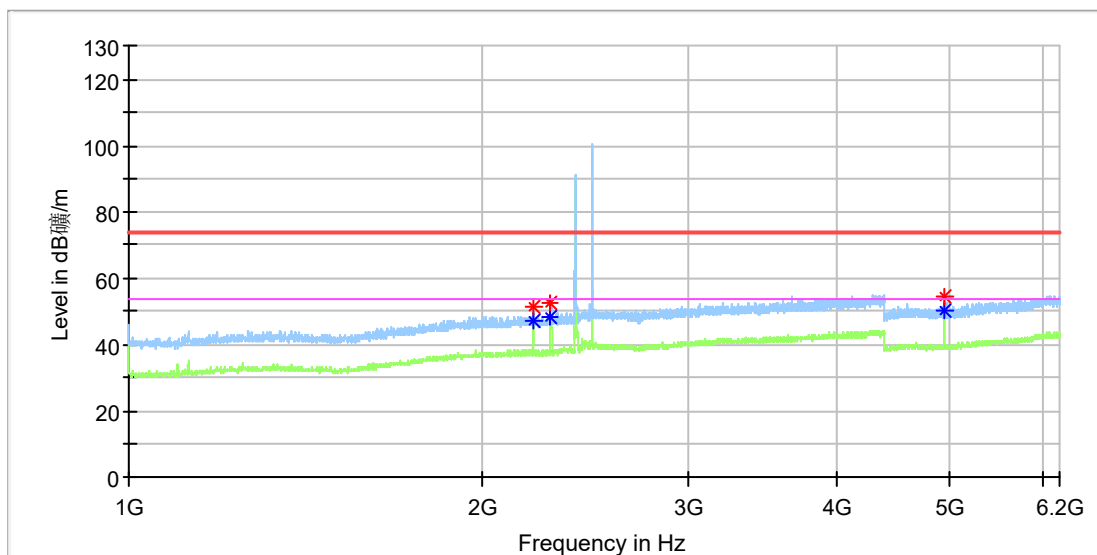






### EUT Information

EUT Name: Bluetooth Speaker  
 Model: X5i  
 Test Mode: CO\_BLE+BT  
 Order No/Sample No: 168490934/A003762173-002  
 Test Voltage:: DC 3.3V  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Lich Chen  
 Reviewed By: Terry Yin



### Critical Freqs

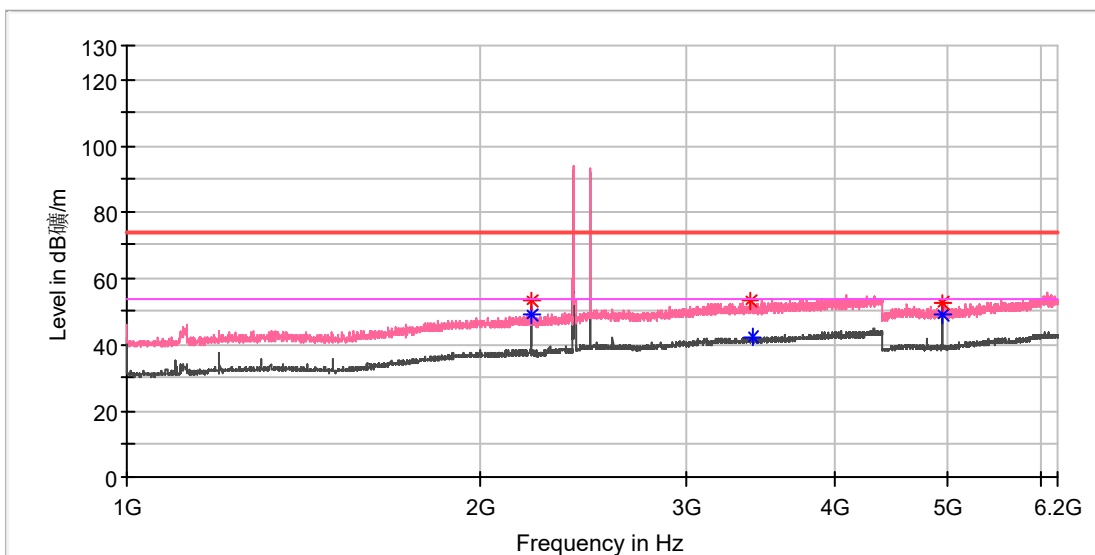
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2210.000000	---	46.91	54.00	7.09	150.0	H	43.0	6.3
2210.500000	51.26	---	74.00	22.74	150.0	H	43.0	6.3
2287.500000	52.42	---	74.00	21.58	150.0	H	291.0	6.4
2288.000000	---	48.23	54.00	5.77	150.0	H	317.0	6.4
4960.000000	---	50.14	54.00	3.86	150.0	H	140.0	11.8
4960.000000	54.22	---	74.00	19.78	150.0	H	140.0	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: Bluetooth Speaker  
 Model: X5i  
 Test Mode: CO\_BLE+BT  
 Order No/Sample No: 168490934/A003762173-002  
 Test Voltage:: DC 3.3V  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Lich Chen  
 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)
2210.000000	---	49.21	54.00	4.79	150.0	V	69.0	6.3
2210.000000	53.31	---	74.00	20.69	150.0	V	69.0	6.3
3391.000000	52.93	---	74.00	21.07	150.0	V	69.0	8.7
3414.500000	---	42.21	54.00	11.79	150.0	V	86.0	8.7
4959.500000	52.53	---	74.00	21.47	150.0	V	232.0	11.8
4960.000000	---	48.72	54.00	5.28	150.0	V	142.0	11.8

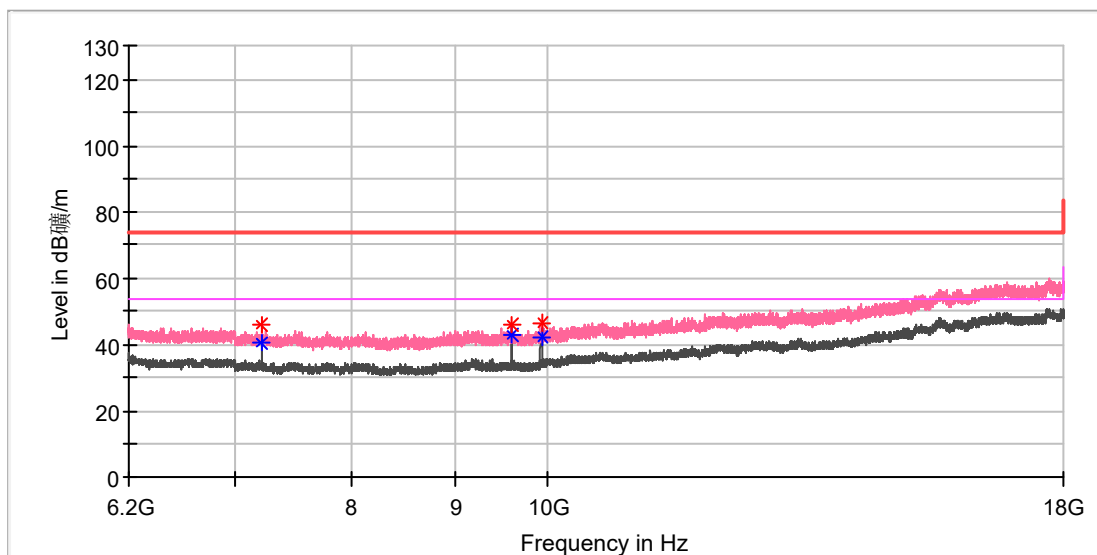
### Final Result

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



### EUT Information

EUT Name: Bluetooth Speaker  
 Model: X5i  
 Test Mode: CO\_BLE+BT  
 Order No/Sample No: 168490934/A003762173-002  
 Test Voltage:: DC 3.3V  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Lich Chen  
 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)
7205.458333	45.99	---	74.00	28.01	150.0	V	83.0	8.8
7205.950000	---	40.78	54.00	13.22	150.0	V	72.0	8.8
9601.841667	---	42.72	54.00	11.28	150.0	V	261.0	10.4
9601.841667	45.88	---	74.00	28.12	150.0	V	261.0	10.4
9920.441667	46.38	---	74.00	27.62	150.0	V	62.0	10.8
9920.441667	---	42.06	54.00	11.94	150.0	V	62.0	10.8

### Final Result

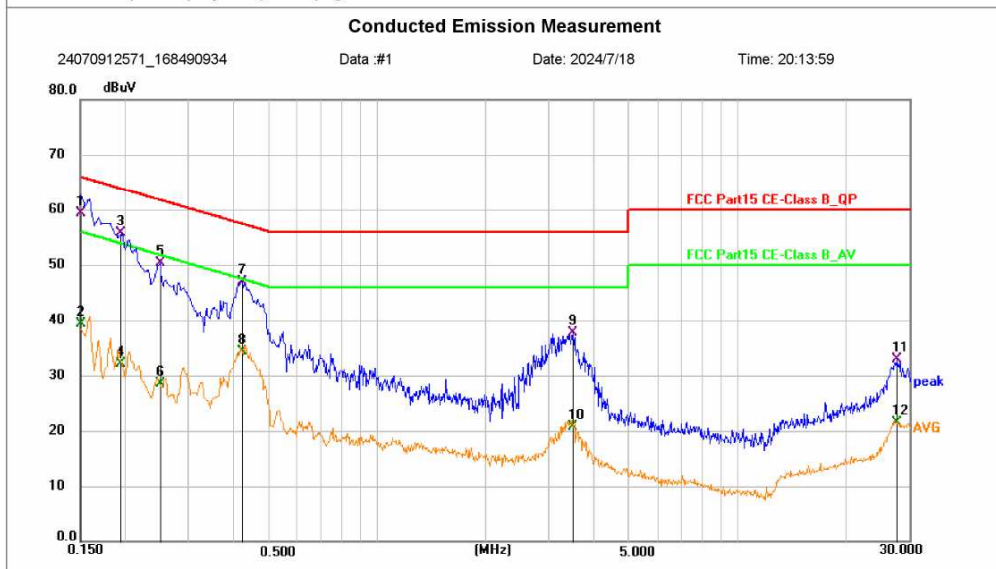
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

## Appendix A.11: Test Results of Conducted Emission on AC Mains



Shenzhen UnionTrust Quality and Technology Co.,Ltd.

Site LAB Phase: **L1** Temperature: 23.1 °C  
 Limit: FCC Part15 CE-Class B\_QP Power: AC120V/60Hz Humidity: 53.3 %RH  
 EUT: Bluetooth Speaker X5i Air Pressure: 100.5 kpa  
 M/N: 168490934  
 Mode:  
 Note: Test Mode 1: AC120V/60Hz Charging +BT link(Microphone connection+ Mobile phone playback)+ lamplight



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1508	49.05	10.20	59.25	65.96	-6.71	QP	P	
2	0.1508	29.02	10.20	39.22	55.96	-16.74	AVG	P	
3	0.1949	45.47	10.16	55.63	63.83	-8.20	QP	P	
4	0.1949	21.95	10.16	32.11	53.83	-21.72	AVG	P	
5	0.2490	40.03	10.19	50.22	61.79	-11.57	QP	P	
6	0.2490	18.37	10.19	28.56	51.79	-23.23	AVG	P	
7	0.4200	36.77	10.13	46.90	57.45	-10.55	QP	P	
8	0.4200	24.14	10.13	34.27	47.45	-13.18	AVG	P	
9	3.5024	27.43	10.24	37.67	56.00	-18.33	QP	P	
10	3.5024	10.54	10.24	20.78	46.00	-25.22	AVG	P	
11	27.7845	21.96	10.88	32.84	60.00	-27.16	QP	P	
12	27.7845	10.54	10.88	21.42	50.00	-28.58	AVG	P	

\*:Maximum data x:Over limit !:over margin





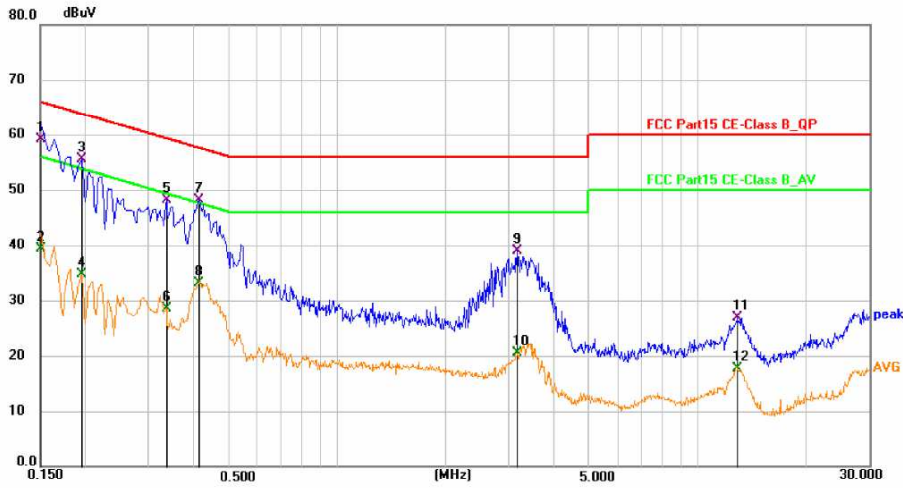
Shenzhen UnionTrust Quality and Technology Co.,Ltd.

Site: LAB  
 Limit: FCC Part15 CE-Class B\_QP  
 EUT: Bluetooth Speaker X5i  
 M/N: 168490934  
 Mode:  
 Note: Test Mode 1: AC120V/60Hz Charging +BT link(Microphone connection+ Mobile phone playback)+ lamplight

Phase: **N**  
 Power: AC120V/60Hz  
 Temperature: 23.1 °C  
 Humidity: 53.3 %RH  
 Air Pressure: 100.5 kpa

**Conducted Emission Measurement**

24070912571\_168490934 Data :#2 Date: 2024/7/18 Time: 20:16:52



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1511	48.92	10.19	59.11	65.94	-6.83	QP	P	
2	0.1511	29.06	10.19	39.25	55.94	-16.69	AVG	P	
3	0.1955	45.37	10.06	55.43	63.80	-8.37	QP	P	
4	0.1955	24.55	10.06	34.61	53.80	-19.19	AVG	P	
5	0.3356	37.89	10.14	48.03	59.31	-11.28	QP	P	
6	0.3356	18.32	10.14	28.46	49.31	-20.85	AVG	P	
7	0.4127	37.91	10.20	48.11	57.59	-9.48	QP	P	
8	0.4127	22.81	10.20	33.01	47.59	-14.58	AVG	P	
9	3.1563	28.62	10.25	38.87	56.00	-17.13	QP	P	
10	3.1563	10.20	10.25	20.45	46.00	-25.55	AVG	P	
11	12.9199	16.33	10.55	26.88	60.00	-33.12	QP	P	
12	12.9199	7.22	10.55	17.77	50.00	-32.23	AVG	P	

\*:Maximum data x:Over limit !:over margin