

Prüfbericht-Nr.: <i>Test report no.:</i>	CN25626O 002	Auftrags-Nr.: <i>Order no.:</i>	168514196	Seite 1 von 28 Page 1 of 28
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024-11-18	
Auftraggeber: <i>Client:</i>	BlueAnt Wireless Suite 6, 861 Doncaster Road, Doncaster East, Victoria 3109, Australia			
Prüfgegenstand: <i>Test item:</i>	Bluetooth Speaker			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	X4i (Trademark: BlueAnt)			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-12-06	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003863179-005 A003863179-001~003			
Prüfzeitraum: <i>Testing period:</i>	2024-12-11 - 2025-01-06			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	 Hardy Suo		genehmigt von: <i>authorized by:</i>	 Lin Lin
Datum: <i>Date:</i>	2025-04-28		Ausstellungsdatum: <i>Issue date:</i>	2025-04-28
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / <i>Other:</i>	FCC ID: VHF-BLUEANT-X4I			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
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Anmerkungen
Remarks

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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 20dB BANDWIDTH

RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION

RESULT: Pass

5.1.8 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.9 TIME OF OCCUPANCY

RESULT: Pass

5.1.10 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.11 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.12 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Bluetooth BR & EDR

Appendix B: Test Results of Bluetooth LE - Bluetooth Chip1

Appendix C: Test Results of Bluetooth LE - Bluetooth Chip2

Appendix D: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

A2LA Certificate Number: 5162.01

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2024-09-26	2025-09-25
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2024-09-26	2025-09-25
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2024-09-26	2025-09-25
DC power supply	Keysight	E3642A	MY61276100	2024-09-26	2025-09-25
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2024-09-26	2025-09-25
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2024-09-26	2025-09-25
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2024-09-29	2025-09-28
Signal Analyzer	R&S	FSV 40	101439	2024-09-29	2025-09-28
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2024-09-29	2025-09-28
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2024-09-29	2025-09-28
Amplifier	R&S	SCU-18F	180070	2024-09-29	2025-09-28
Amplifier	R&S	SCU40A	100475	2024-09-29	2025-09-28
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2025-09-27

Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2025-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2025-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2025-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

Conducted Emission on AC Mains				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2025-02-22
Artificial Mains Network	R&S	ENV216	102333	2025-07-22
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C & D of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The Product is a Bluetooth Speaker which supports Bluetooth dual mode function and has two Bluetooth chips that one is for Bluetooth dual mode and one is for Bluetooth LE.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Bluetooth Speaker
Type Designation:	X4i
Trademark:	BlueAnt
FCC ID:	VHF-BLUEANT-X4I
Operating Voltage:	AC 100-240V, 50/60Hz, or Built-in battery
Testing Voltage:	AC 120V, 60Hz or fully charged battery
Operating Temperature Range:	0°C ~ +40 °C
Radiofrequency operating mode:	Bluetooth: operating within 2400-2483.5MHz, Classic Bluetooth (BR&EDR), Bluetooth BLE (1Mbps&2Mbps)
Technical Specification of Bluetooth (dual mode)-Bluetooth Chip1	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Channel Number:	BR & EDR mode: 79 channels, Low Energy mode: 40 channels
Channel Separation:	BR & EDR mode: 1MHz, Low Energy mode: 2MHz
Data Rate:	BR & EDR mode: 1Mbps, 2Mbps, 3Mbps Low Energy mode: 1Mbps, 2Mbps
Antenna Type:	Integral Antenna
Antenna Number:	1
Antenna Gain:	-0.68 dBi (Provided by the Client)
Technical Specification of Bluetooth LE-Bluetooth Chip2	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	Low Energy mode: 40 channels
Channel Separation:	Low Energy mode: 2MHz
Data Rate:	Low Energy mode: 1Mbps, 2Mbps
Antenna Type:	Integral Antenna
Antenna Number:	1
Antenna Gain:	-0.68 dBi (Provided by the Client)
Remark: Bluetooth (dual mode)-Bluetooth Chip1 and Bluetooth LE-Bluetooth Chip2 have different transmitter antennas.	

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of Bluetooth BR & EDR

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00		

Test frequencies are lowest channel: 2402 MHz, middle channel: 2441 MHz and highest channel: 2480 MHz for Bluetooth BR & EDR

Table 5: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth transmitting mode (BR & EDR mode)
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Bluetooth transmitting mode (BLE)
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- C. On, Transmitting on Hopping channel
- D. On, BT Link
- E. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|------------------------------|-------------------------|
| - Application Form | - User Manual |
| - ID Label and Location Info | - Operation Description |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model X4i in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
Mobile phone	HUAWEI	STK-AL00	7PRNW20721000279
Bluetooth Microphone	BlueAnt	N/A	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

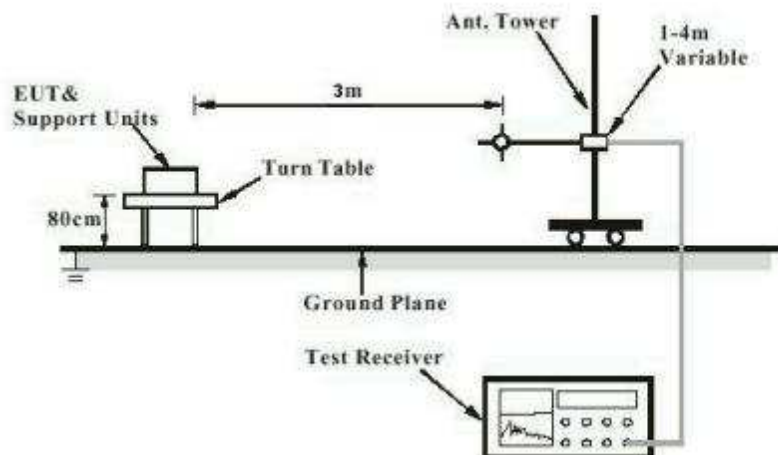


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

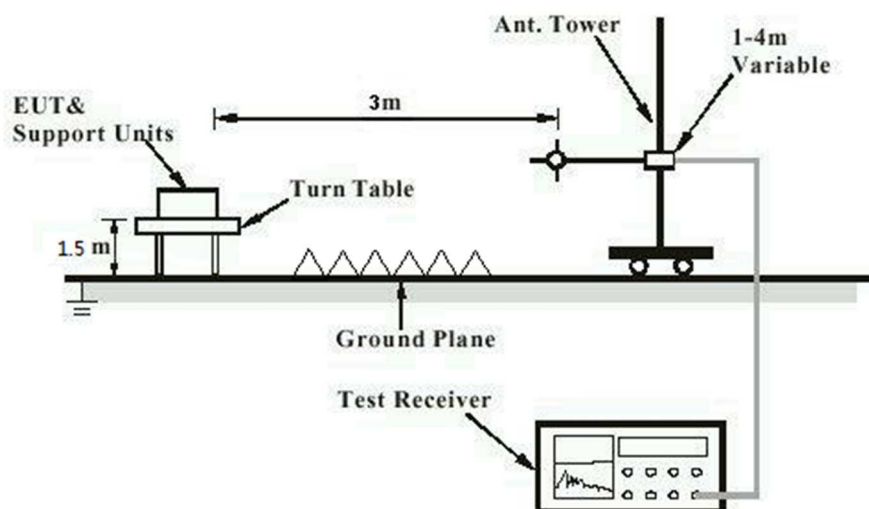


Diagram of Measurement Configuration for Mains Conduction Measurement

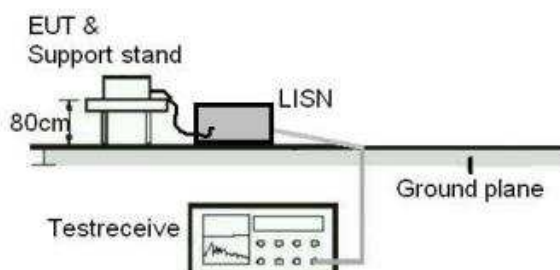
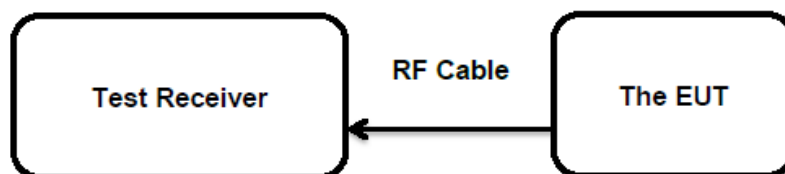


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has two Integral Antenna for Bluetooth Chip1 and Bluetooth Chip2 respective, the directional gain of antenna is -0.68 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(b)(1)&(3)
Basic standard	: ANSI C63.10: 2013
Limits	: FHSS < 0.125 Watts, DSSS < 1.0 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-12-30 to 2024-12-31
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

Table 7: Test Result of Maximum Peak Conducted Output Power, Bluetooth BR & EDR - Bluetooth Chip1

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
GFSK (BR)	2402.0	2.24	0.0017	< 0.125
	2441.0	2.92	0.0020	
	2480.0	2.48	0.0018	
8DPSK (EDR)	2402.0	3.72	0.0024	
	2441.0	4.07	0.0026	
	2480.0	3.45	0.0022	
Maximum Measured Value		4.07	0.0026	

Table 8: Test Result of Maximum Peak Conducted Output Power, Bluetooth LE - Bluetooth Chip1

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
Bluetooth LE	1 Mbps	2402.0	2.51	0.0018	< 1.0
		2440.0	3.11	0.0020	
		2480.0	2.39	0.0017	
	2 Mbps	2402.0	2.68	0.0019	
		2440.0	2.54	0.0018	
		2480.0	2.33	0.0017	
Maximum Measured Value			3.11	0.0020	

Table 9: Test Result of Maximum Peak Conducted Output Power, Bluetooth LE - Bluetooth Chip2

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
Bluetooth LE	1 Mbps	2402.0	6.62	0.0046	< 1.0
		2440.0	7.33	0.0054	
		2480.0	7.54	0.0057	
	2 Mbps	2402.0	6.59	0.0046	
		2440.0	7.16	0.0052	
		2480.0	7.28	0.0053	
Maximum Measured Value			7.54	0.0057	

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): -0.68 dBi for Bluetooth Chip1 & Bluetooth Chip2

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5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(e)
Basic standard	: ANSI C63.10: 2013
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-12-30 to 2024-12-31
Input voltage	: Fully charged battery
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B, C.

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5.1.4 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(a)(2)
Basic standard	: ANSI C63.10: 2013
Limits	: > 500 kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-12-30 to 2024-12-31
Input voltage	: Fully charged battery
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B, C.

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5.1.5 99% Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(a)
Basic standard	: ANSI C63.10: 2013
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-12-30 to 2024-12-31
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B, C.

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5.1.6 20dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(a)(1)
Basic standard	: ANSI C63.10: 2013
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-12-30 to 2024-12-31
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.7 Carrier Frequency Separation

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(1)
Basic standard	: ANSI C63.10: 2013
Limits	: $\geq 25\text{kHz}$ or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-12-30 to 2024-12-31
Input voltage	: Fully charged battery
Operation mode	: C
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.8 Number of Hopping Frequency

RESULT:**Pass****Test Specification**

Test standard	: FCC part 15.247(a)(1)(iii)
Basic standard	: ANSI C63.10: 2013
Limits	: ≥ 15 non-overlapping channels
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-12-30 to 2024-12-31
Input voltage	: Fully charged battery
Operation mode	: C
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.9 Time of Occupancy

RESULT:

Pass

Test Specification

Test standard	: FCC part 15.247(a)(1)(iii)
Basic standard	: ANSI C63.10: 2013
Limits	: < 0.4s
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-12-30 to 2024-12-31
Input voltage	: Fully charged battery
Operation mode	: C
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.10 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d)
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-12-30 to 2024-12-31
Input voltage	: Fully charged battery
Operation mode	: A, B, C
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A, B, C.

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5.1.11 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) & FCC Part 15.205
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2024-12-23 to 2025-01-06
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A, B, C.

Prüfbericht - Nr.: CN25626O 002
Test Report No.:Seite 27 von 28
Page 27 of 28**5.1.12 Conducted Emission on AC Mains****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.207(a)
Basic standard	: ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-12-11
Input voltage	: AC 120V, 60Hz
Operation mode	: D
Earthing	: Not connected
Ambient temperature	: 24.0 °C
Relative humidity	: 50.4 %
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out all operation modes, only the worst case configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix D.

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Appendix A: Test Results of Bluetooth BR & EDR

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Appendix A.1: Test Results of 20dB Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.936	2401.547	2402.483	---	PASS
		2441	0.930	2440.544	2441.474	---	PASS
		2480	0.909	2479.544	2480.453	---	PASS
3DH5	Ant1	2402	1.278	2401.355	2402.633	---	PASS
		2441	1.263	2440.361	2441.624	---	PASS
		2480	1.263	2479.361	2480.624	---	PASS

Test Graphs



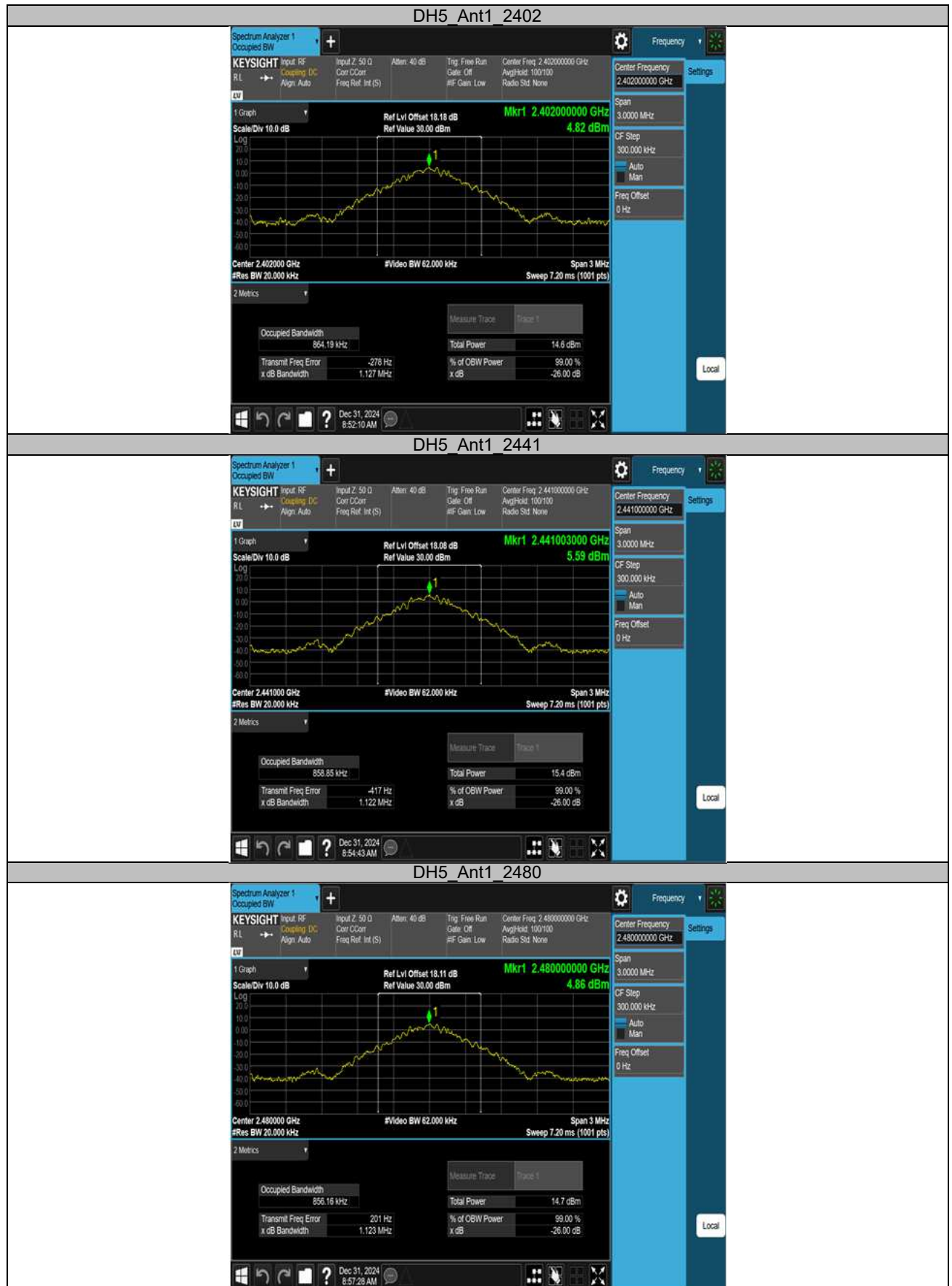


Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86419	2401.5676	2402.4318	---	PASS
		2441	0.85885	2440.5702	2441.4290	---	PASS
		2480	0.85616	2479.5721	2480.4283	---	PASS
3DH5	Ant1	2402	1.1877	2401.4016	2402.5893	---	PASS
		2441	1.1788	2440.4107	2441.5895	---	PASS
		2480	1.1953	2479.3966	2480.5919	---	PASS

Test Graphs





Appendix A.3: Test Results of Carrier Frequency Separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.064	≥0.936	PASS
3DH5	Ant1	Hop	1.184	≥0.852	PASS

Test Graphs

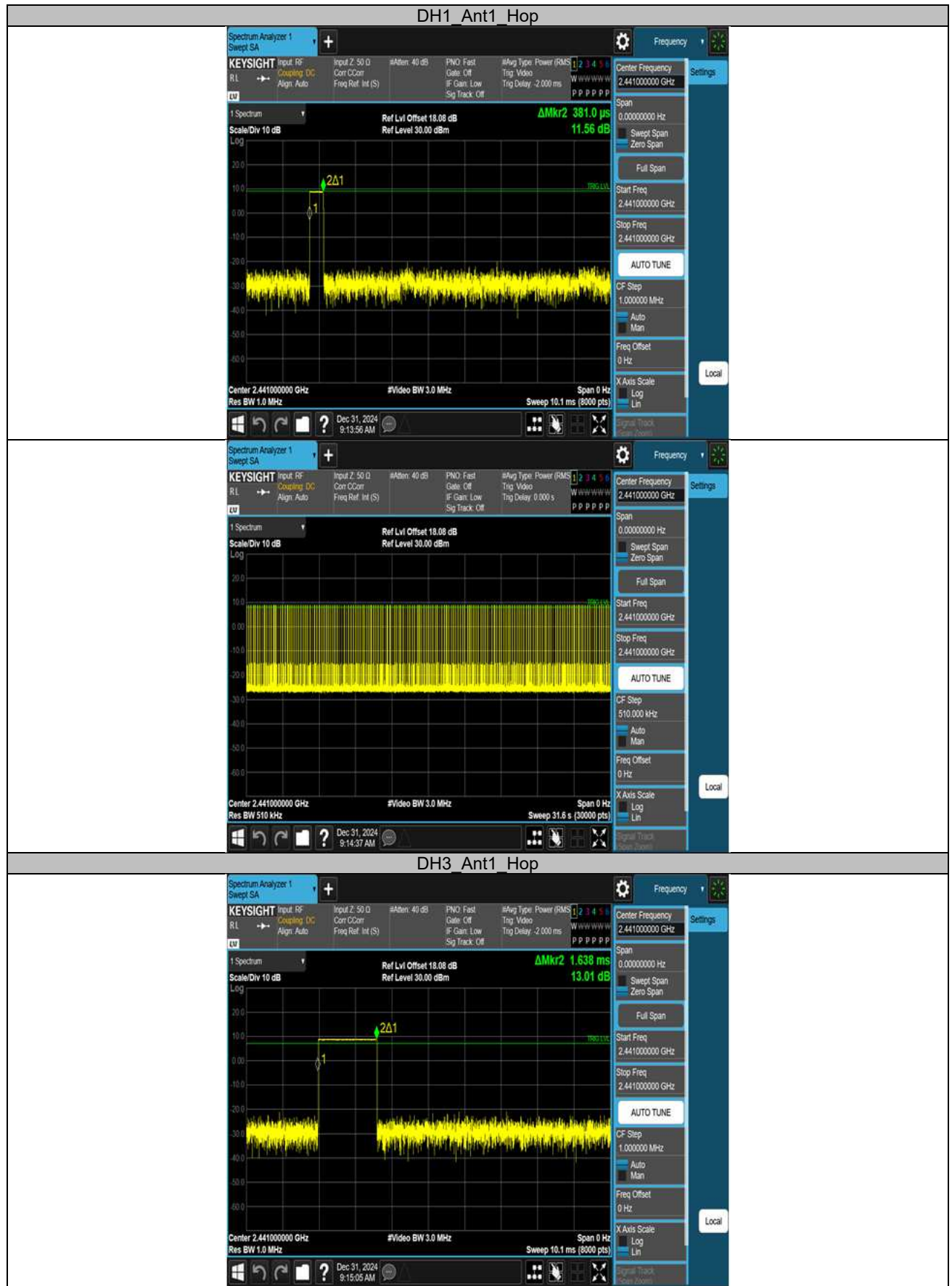


Appendix A.4: Test Results of Time of Occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.381	320	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.638	155	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.885	107	0.309	≤0.4	PASS
3DH1	Ant1	Hop	0.389	319	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.640	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.892	117	0.338	≤0.4	PASS

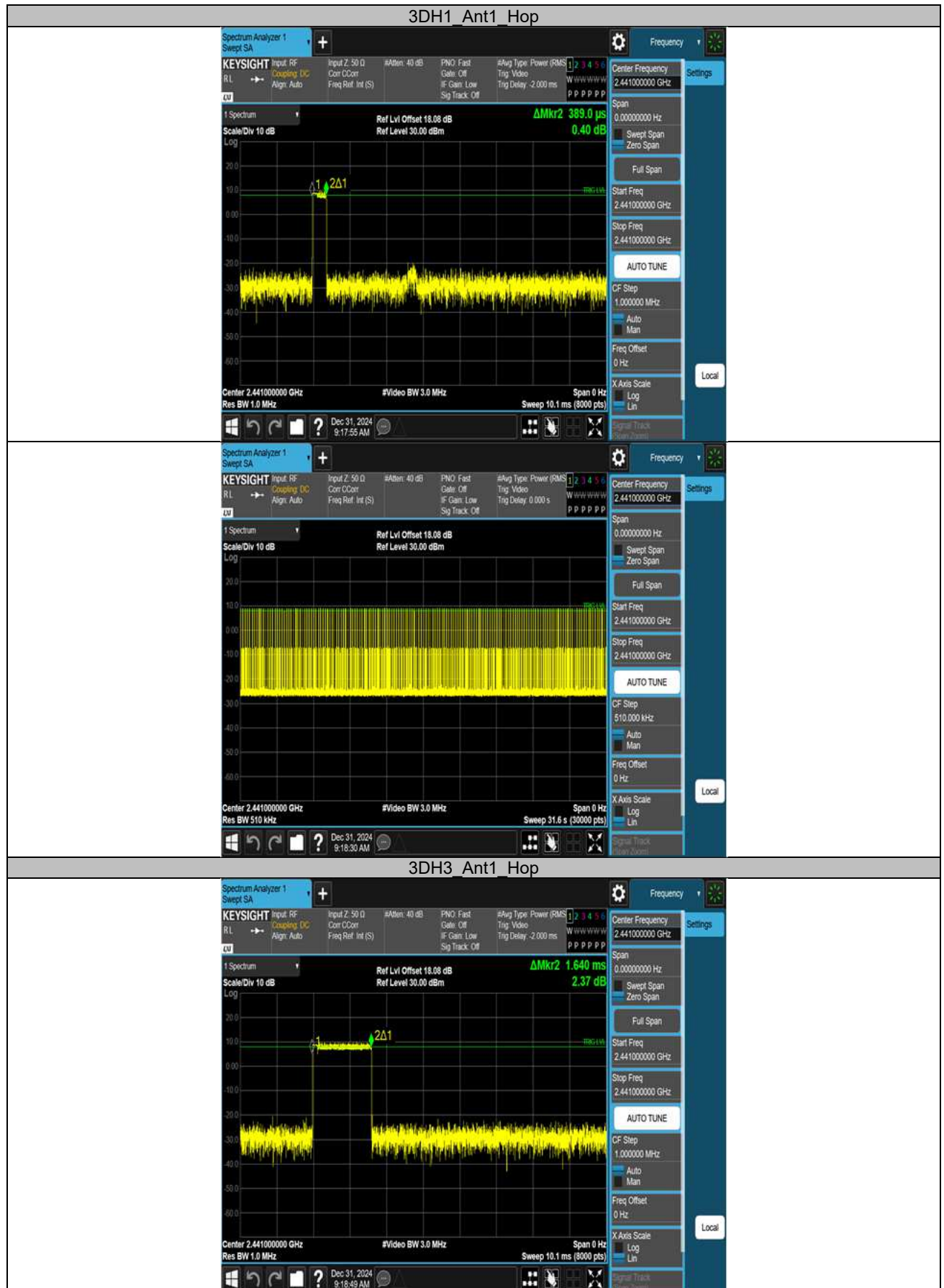
Test Graphs

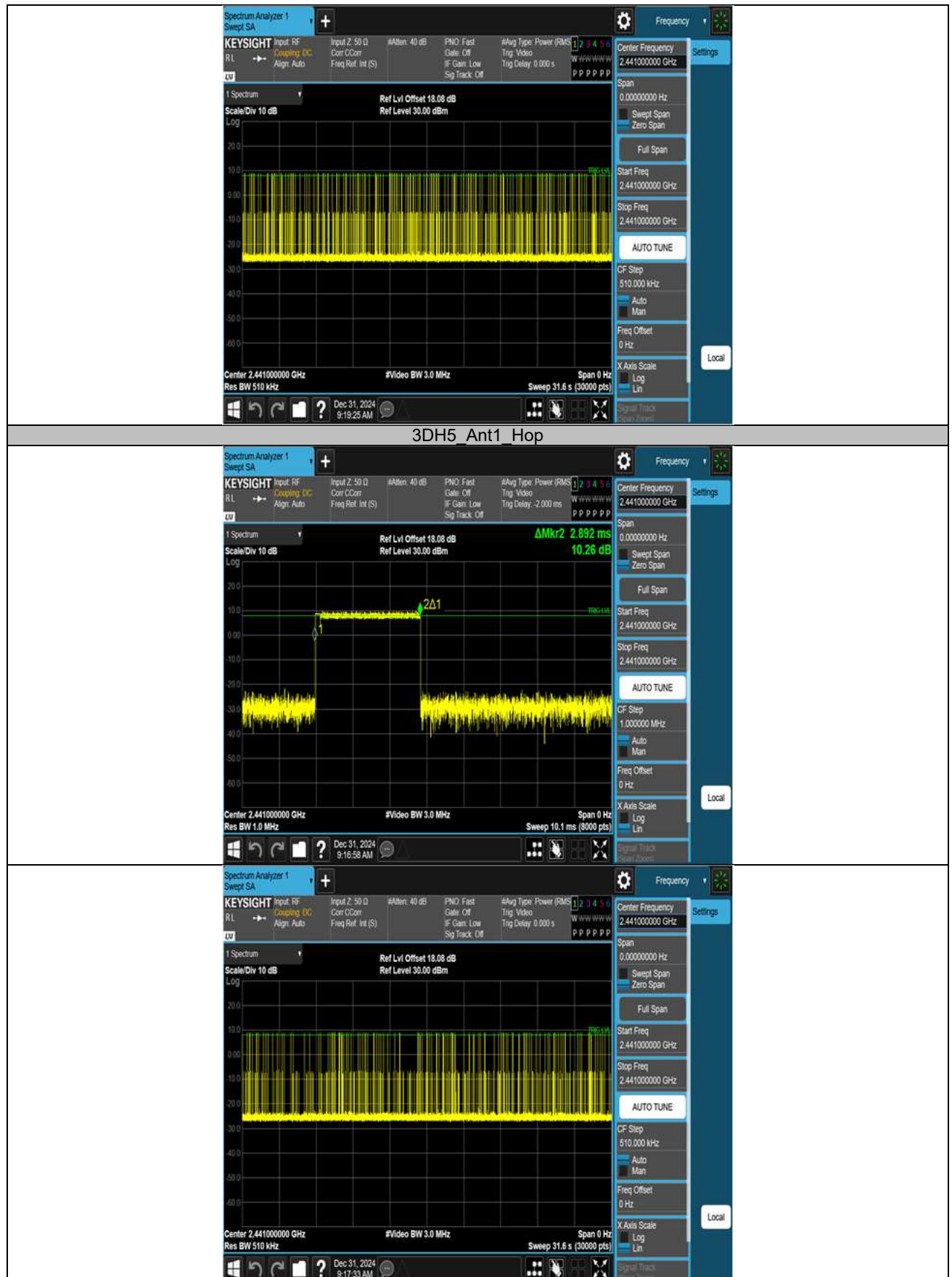




DH5 Ant1 Hop







Appendix A.5: Test Results of Number of Hopping Frequency

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.6: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.48	-46.95	≤-18.52	PASS
		High	2480	1.64	-46.19	≤-18.36	PASS
3DH5	Ant1	Low	2402	1.35	-46.63	≤-18.65	PASS
		High	2480	1.78	-48.66	≤-18.22	PASS
DH5	Ant1	Hopping	2402	1.35	-48.28	≤-18.65	PASS
		Hopping	2480	0.92	-48.89	≤-19.08	PASS
3DH5	Ant1	Hopping	2402	-0.20	-49.15	≤-20.20	PASS
		Hopping	2480	-2.37	-47.34	≤-22.37	PASS

Test Graphs



3DH5 Ant1 High 2480



DH5 Ant1 Hopping 2402



DH5 Ant1 Hopping 2480



3DH5_Ant1_Hopping_2402



3DH5_Ant1_Hopping_2480



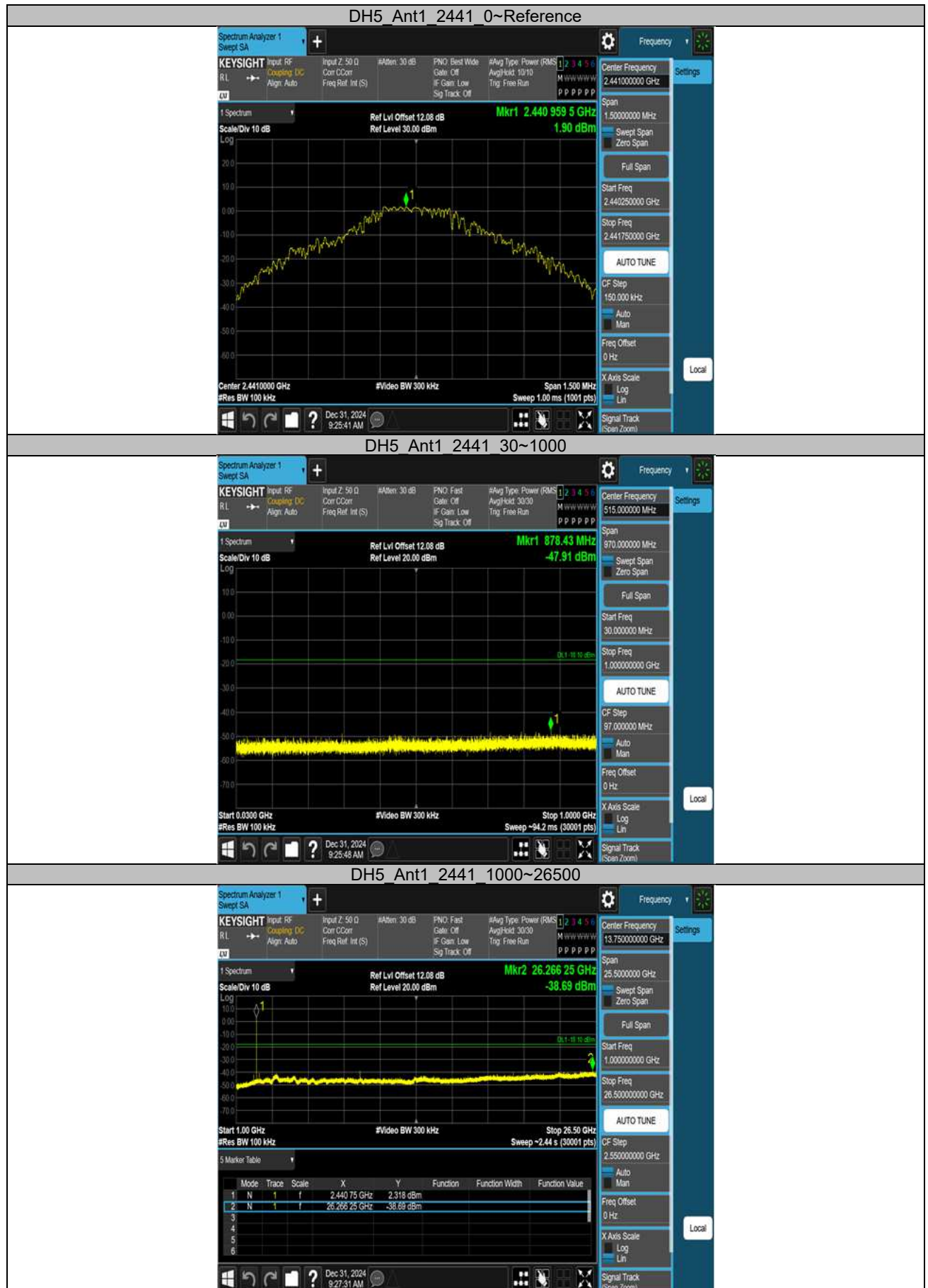
Appendix A.7: Test Results of Conducted Spurious Emission

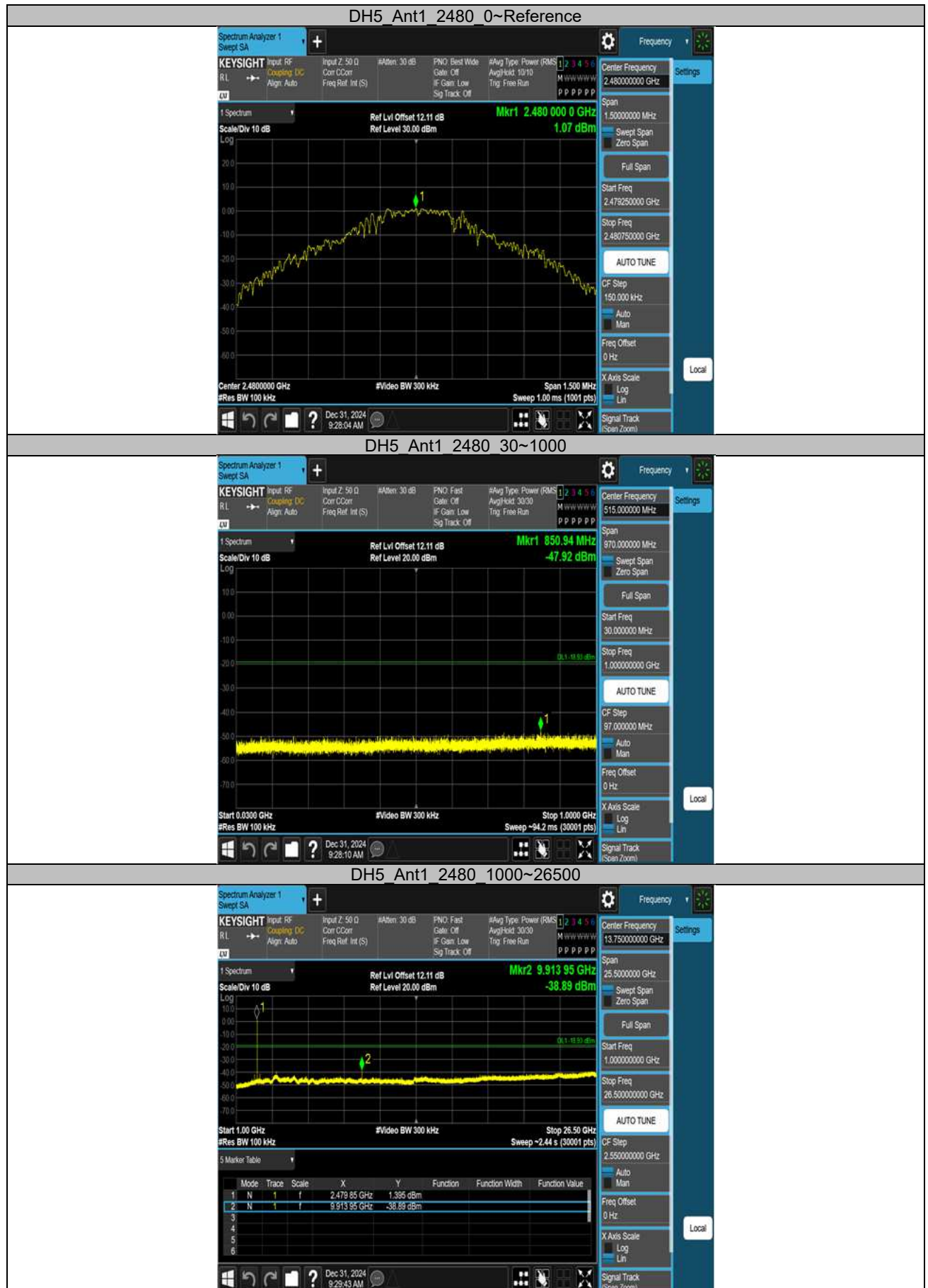
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.85	1.85	---	PASS
			30~1000	1.85	-47.11	≤-18.15	PASS
			1000~26500	1.85	-38.82	≤-18.15	PASS
		2441	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-47.91	≤-18.1	PASS
			1000~26500	1.90	-38.69	≤-18.1	PASS
		2480	Reference	1.07	1.07	---	PASS
			30~1000	1.07	-47.92	≤-18.93	PASS
			1000~26500	1.07	-38.89	≤-18.93	PASS
3DH5	Ant1	2402	Reference	-1.49	-1.49	---	PASS
			30~1000	-1.49	-47.67	≤-21.49	PASS
			1000~26500	-1.49	-38.84	≤-21.49	PASS
		2441	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-48.27	≤-20.69	PASS
			1000~26500	-0.69	-38.61	≤-20.69	PASS
		2480	Reference	0.80	0.80	---	PASS
			30~1000	0.80	-47.31	≤-19.2	PASS
			1000~26500	0.80	-37.77	≤-19.2	PASS

Test Graphs











3DH5 Ant1 2480 0~Reference



3DH5 Ant1 2480 30~1000



3DH5 Ant1 2480 1000~26500



Appendix A.8: Test Results of Radiated Spurious Emissions

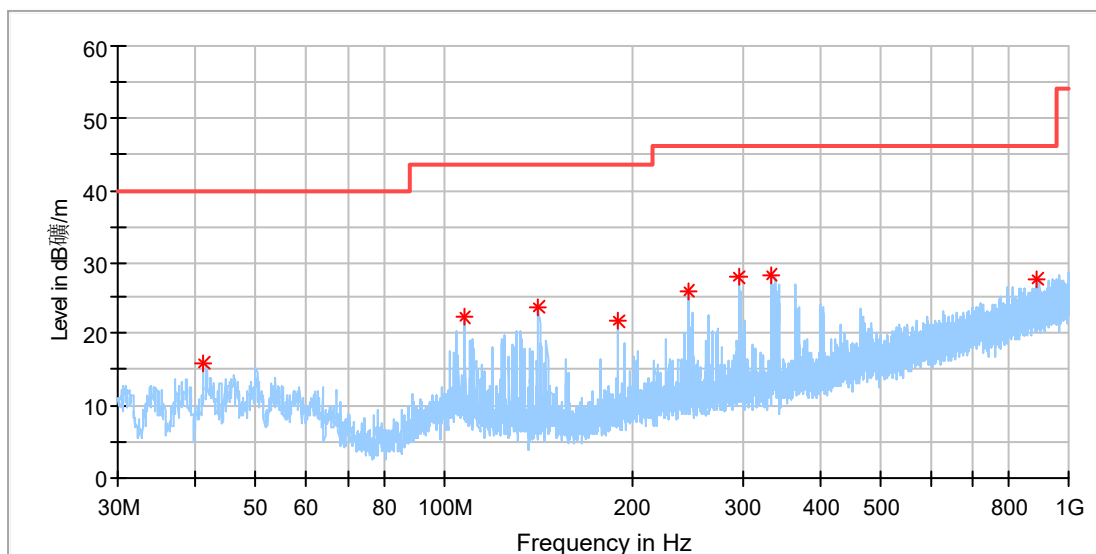
Note:

- 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:	Bluetooth Speaker
Model:	X4i
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168514196/A003881759-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

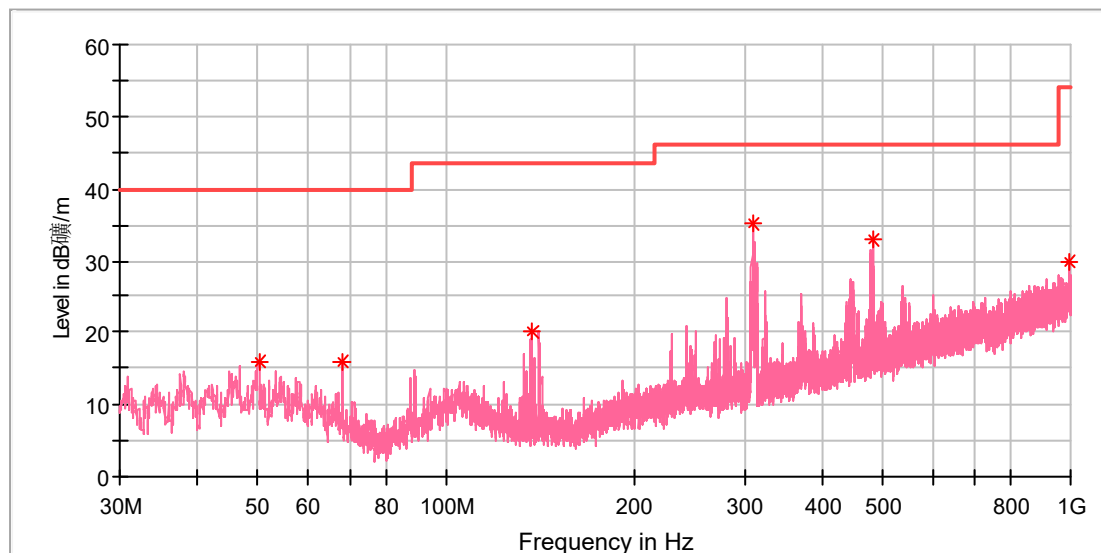
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.341539	15.79	40.00	24.21	100.0	H	0.0	-19.8
107.674615	22.34	43.50	21.16	100.0	H	307.0	-19.1
141.885769	23.65	43.50	19.85	100.0	H	239.0	-22.4
189.863462	21.86	43.50	21.64	100.0	H	84.0	-19.7
246.347308	25.90	46.00	20.10	100.0	H	284.0	-17.5
295.406923	27.99	46.00	18.01	100.0	H	334.0	-16.4
332.789231	28.32	46.00	17.68	100.0	H	0.0	-15.2
890.986923	27.75	46.00	18.25	100.0	H	69.0	-4.9

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: X4i
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
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)
50.146154	16.00	40.00	24.00	100.0	V	0.0	-18.4
68.240385	15.96	40.00	24.04	100.0	V	350.0	-21.4
137.632692	20.20	43.50	23.30	100.0	V	85.0	-22.3
309.509231	35.18	46.00	10.82	100.0	V	279.0	-16.0
481.012692	32.79	46.00	13.21	100.0	V	279.0	-12.1
994.627692	29.96	54.00	24.04	100.0	V	223.0	-3.5

Final Result

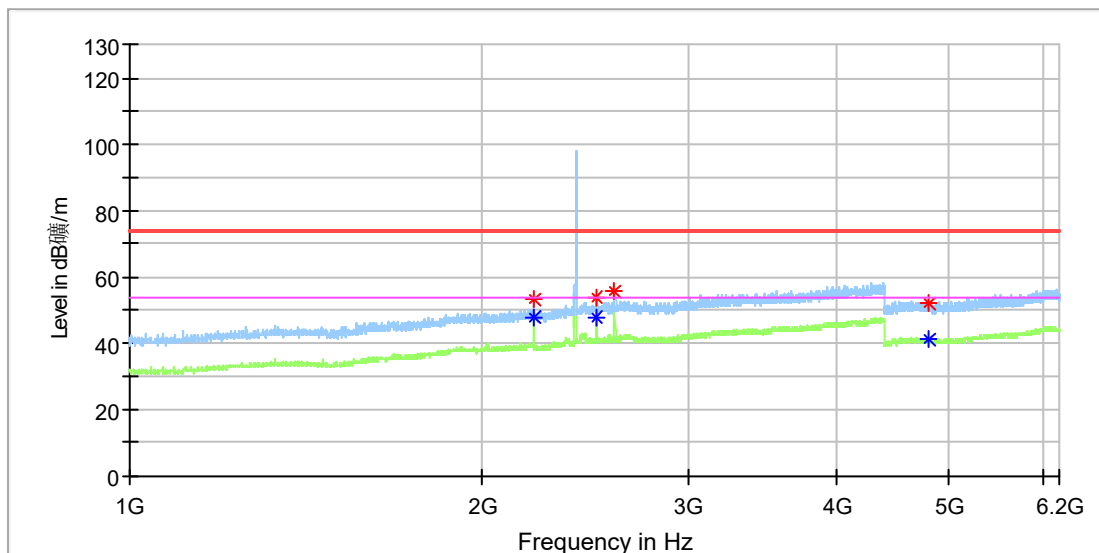
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Bluetooth Speaker
Model:	X4i
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168514196/A003881759-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

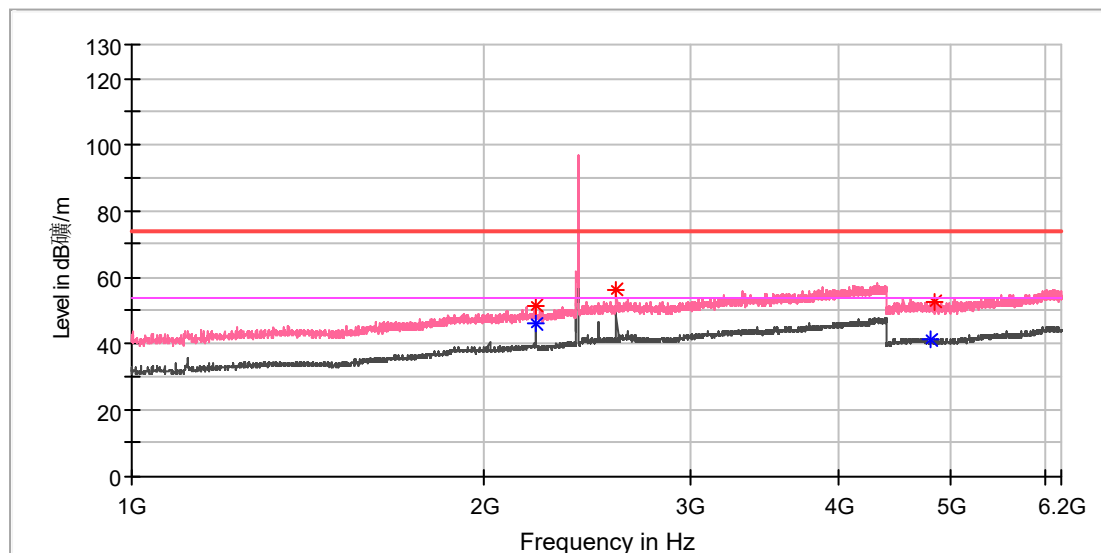
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2210.000000	52.95	---	74.00	21.05	150.0	H	252.0	7.9
2210.000000	---	47.85	54.00	6.15	150.0	H	252.0	7.9
2497.500000	53.72	---	74.00	20.28	150.0	H	245.0	9.0
2498.000000	---	47.82	54.00	6.18	150.0	H	252.0	9.0
2593.500000	55.53	---	68.20	12.67	150.0	H	331.0	9.5
4804.500000	51.94	---	74.00	22.06	150.0	H	239.0	13.3
4808.500000	---	41.08	54.00	12.92	150.0	H	35.0	13.3

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: X4i
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

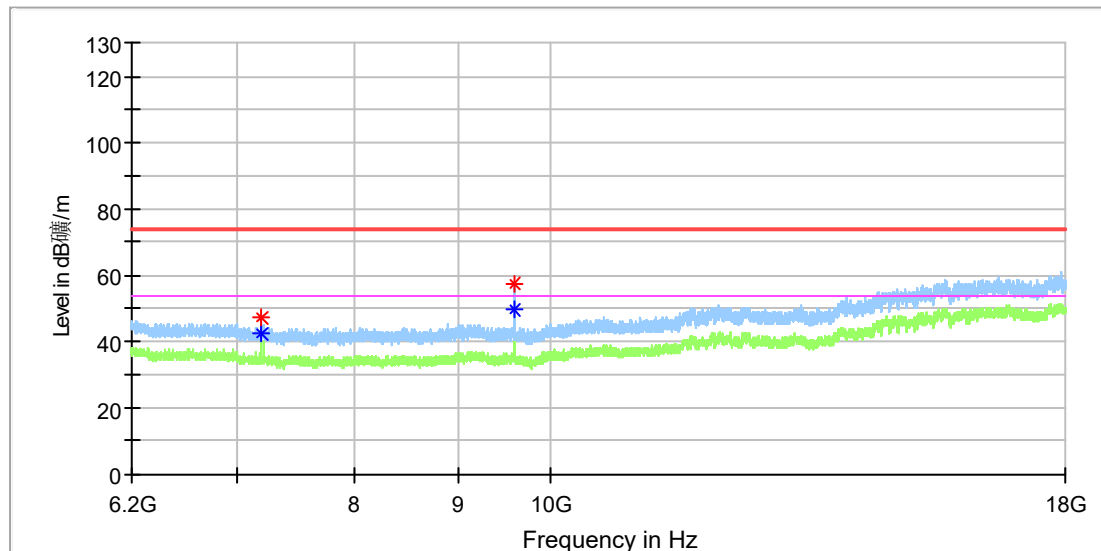
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2210.000000	51.13	---	74.00	22.87	150.0	V	205.0	7.9
2210.000000	---	46.23	54.00	7.77	150.0	V	205.0	7.9
2594.000000	56.06	---	68.20	12.14	150.0	V	237.0	9.5
4803.000000	---	41.27	54.00	12.73	150.0	V	222.0	13.3
4846.500000	52.84	---	74.00	21.16	150.0	V	169.0	13.3

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: X4i
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

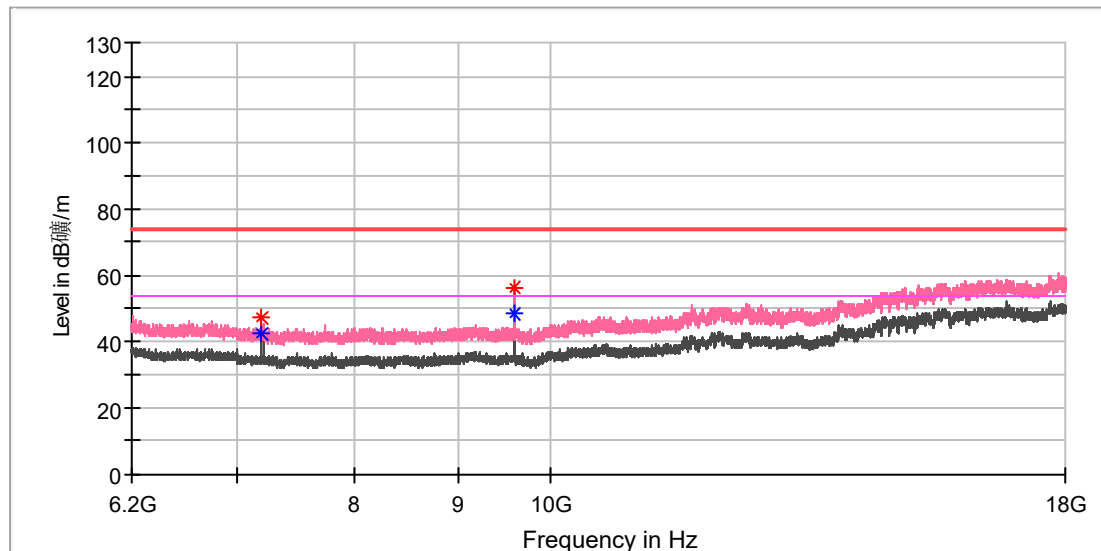
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7199.558333	46.89	---	74.00	27.11	150.0	H	269.0	8.8
7200.050000	---	42.59	54.00	11.41	150.0	H	269.0	8.8
9601.350000	---	49.57	54.00	4.43	150.0	H	166.0	10.4
9602.333333	57.65	---	74.00	16.35	150.0	H	166.0	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: X4i
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

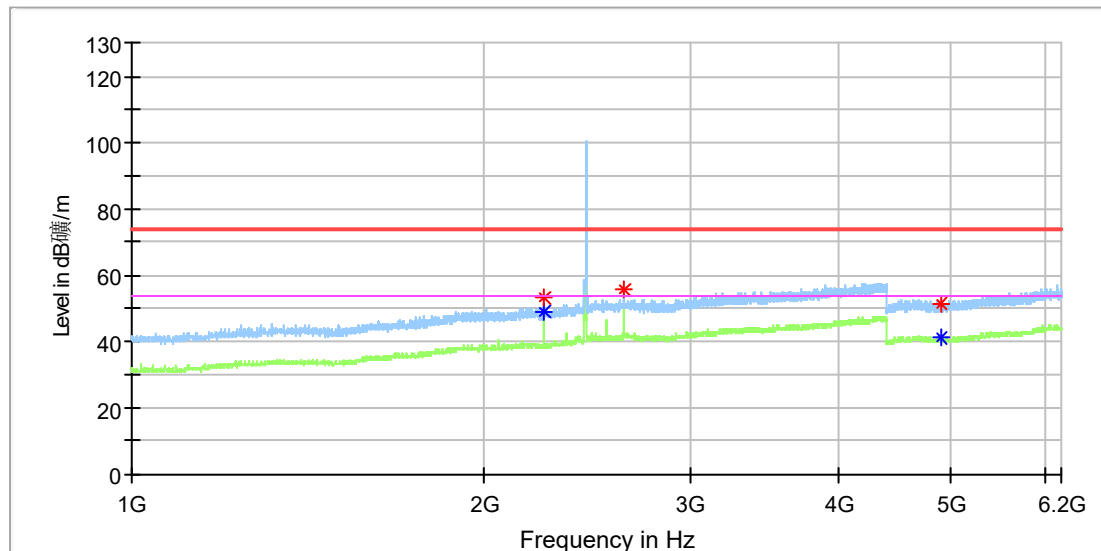
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7200.050000	46.93	---	74.00	27.07	150.0	V	167.0	8.8
7200.050000	---	42.45	54.00	11.55	150.0	V	167.0	8.8
9601.350000	---	48.48	54.00	5.52	150.0	V	263.0	10.4
9601.841667	56.05	---	74.00	17.95	150.0	V	195.0	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: X4i
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

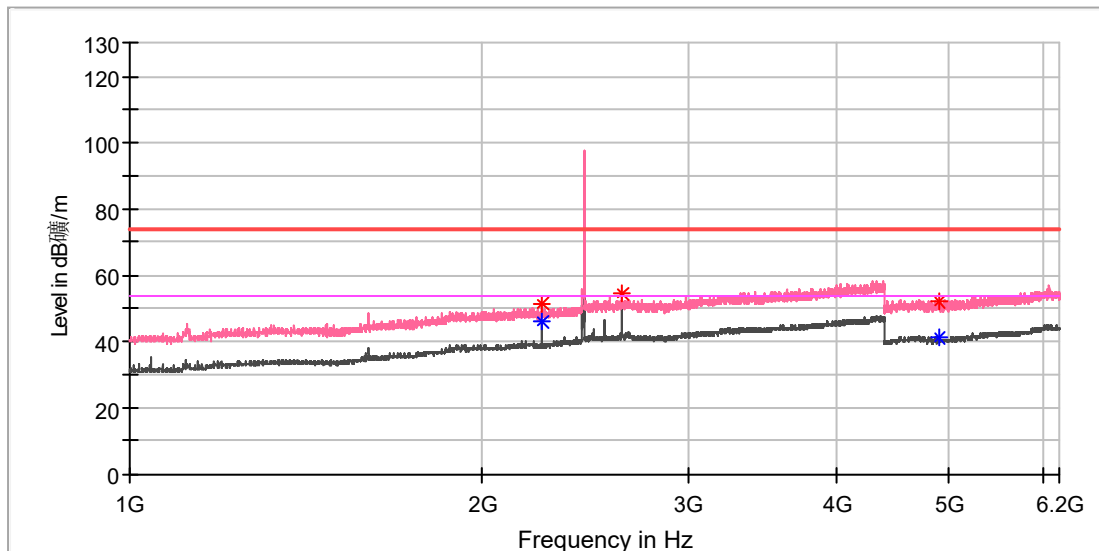
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2249.000000	53.02	---	74.00	20.98	150.0	H	262.0	8.0
2249.000000	---	48.91	54.00	5.09	150.0	H	262.0	8.0
2633.000000	55.51	---	68.20	12.69	150.0	H	262.0	9.9
4899.500000	51.65	---	74.00	22.35	150.0	H	28.0	13.3
4904.500000	---	41.09	54.00	12.91	150.0	H	84.0	13.3

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: X4i
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

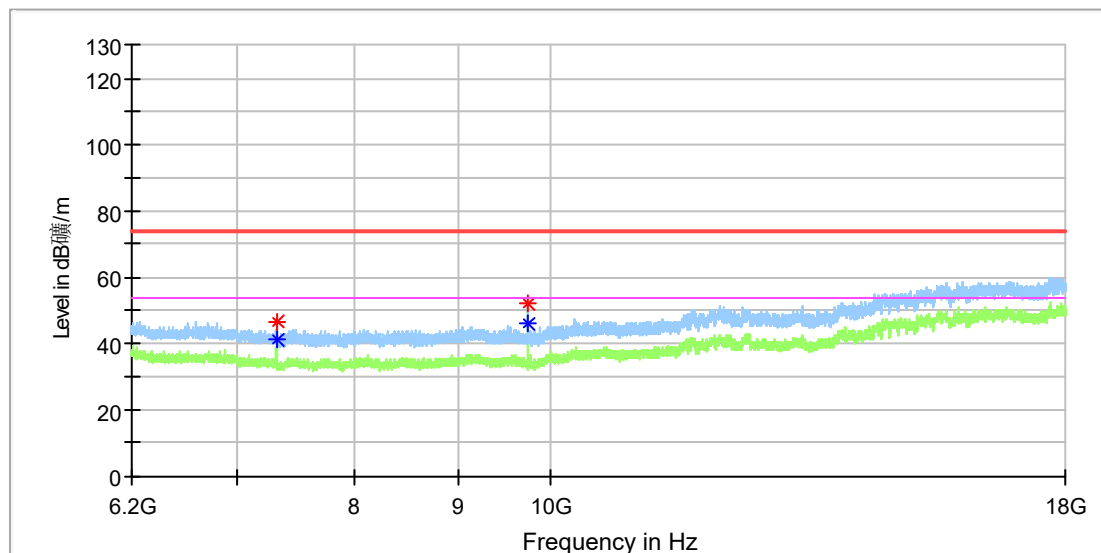
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2249.000000	---	46.14	54.00	7.86	150.0	V	189.0	8.0
2249.000000	51.13	---	74.00	22.87	150.0	V	189.0	8.0
2633.000000	54.22	---	68.20	13.98	150.0	V	234.0	9.9
4901.000000	52.22	---	74.00	21.78	150.0	V	201.0	13.3
4905.000000	---	41.03	54.00	12.97	150.0	V	31.0	13.3

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: X4i
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

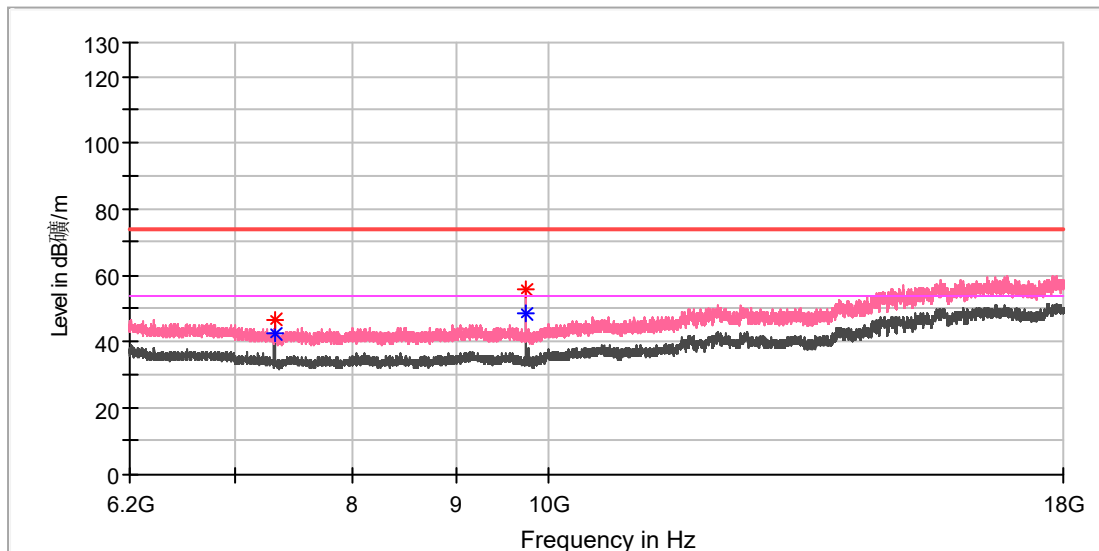
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.475000	---	41.14	54.00	12.86	150.0	H	197.0	8.2
7323.458333	46.47	---	74.00	27.53	150.0	H	298.0	8.2
9757.700000	52.23	---	74.00	21.77	150.0	H	331.0	10.4
9758.683333	---	45.88	54.00	8.12	150.0	H	331.0	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: X4i
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

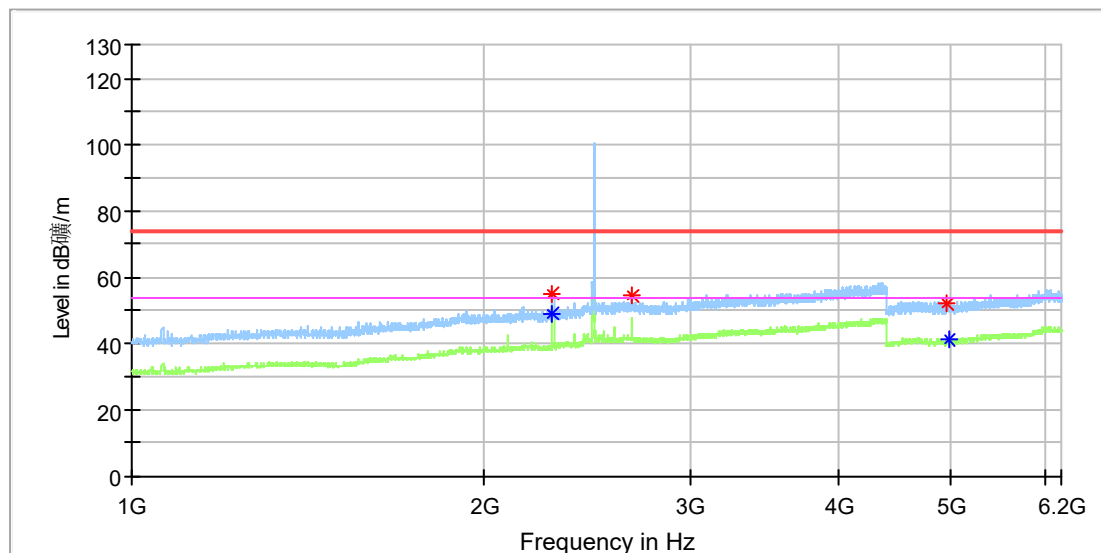
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.475000	---	42.28	54.00	11.72	150.0	V	171.0	8.2
7322.966667	46.51	---	74.00	27.49	150.0	V	181.0	8.2
9757.700000	55.34	---	74.00	18.66	150.0	V	181.0	10.4
9758.683333	---	48.66	54.00	5.34	150.0	V	181.0	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: X4i
Test Mode: BR_DH5_High channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

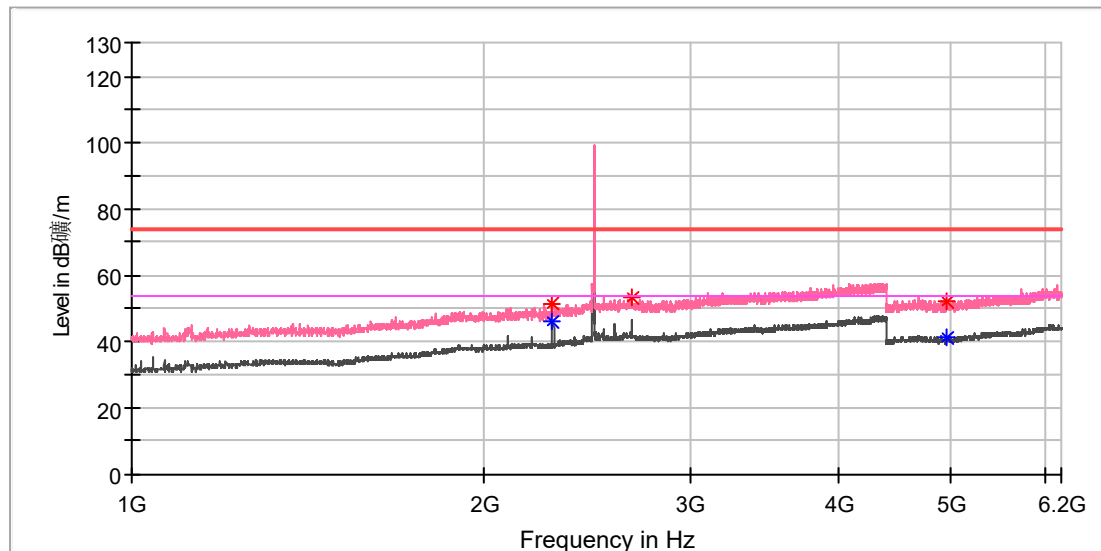
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2287.500000	---	49.23	54.00	4.77	150.0	H	127.0	8.0
2288.000000	55.09	---	74.00	18.91	150.0	H	127.0	8.0
2672.000000	54.27	---	68.20	13.93	150.0	H	243.0	10.2
4951.000000	52.28	---	74.00	21.72	150.0	H	342.0	13.3
4967.000000	---	40.92	54.00	13.08	150.0	H	230.0	13.3

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: X4i
Test Mode: BR_DH5_High channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

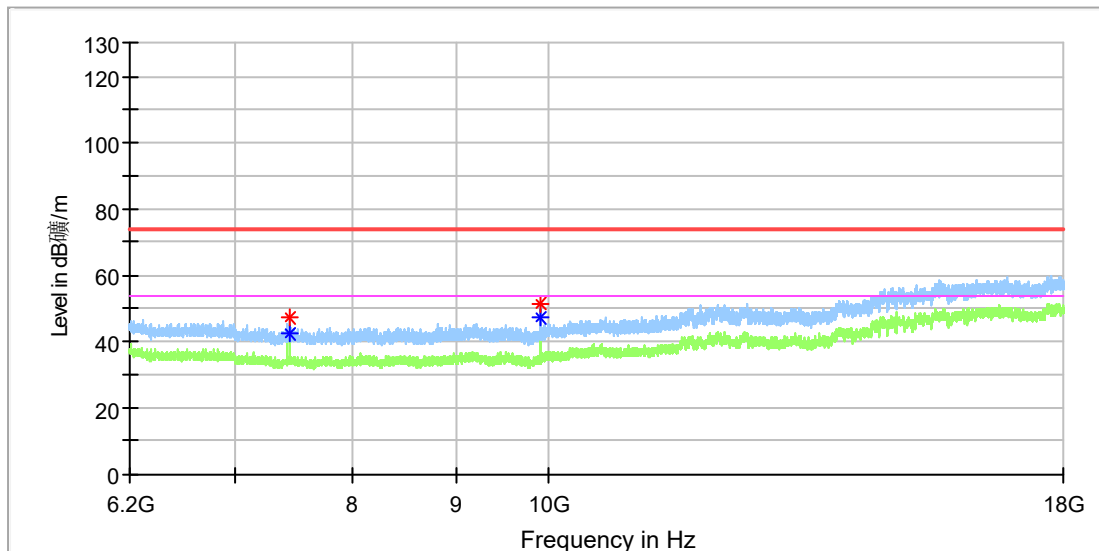
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2288.000000	---	46.20	54.00	7.80	150.0	V	191.0	8.0
2288.000000	51.18	---	74.00	22.82	150.0	V	191.0	8.0
2671.500000	53.33	---	68.20	14.87	150.0	V	210.0	10.2
4949.500000	51.98	---	74.00	22.02	150.0	V	74.0	13.3
4955.500000	---	41.20	54.00	12.80	150.0	V	57.0	13.3

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: X4i
Test Mode: BR_DH5_High channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

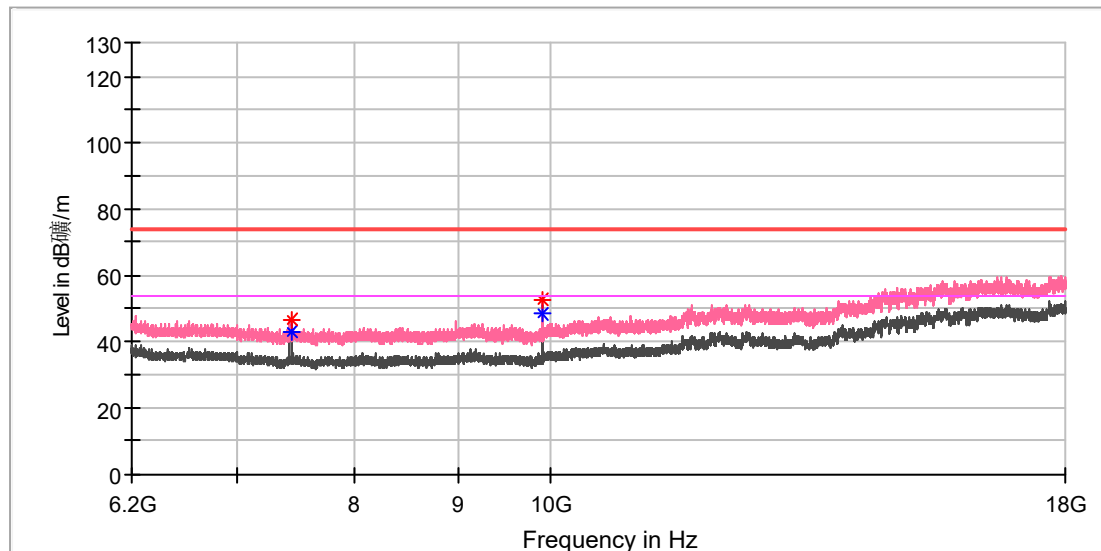
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	47.03	---	74.00	26.97	150.0	H	274.0	8.4
7439.983333	---	42.55	54.00	11.45	150.0	H	163.0	8.4
9913.558333	---	47.07	54.00	6.93	150.0	H	163.0	10.8
9914.050000	51.13	---	74.00	22.87	150.0	H	163.0	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: X4i
Test Mode: BR_DH5_High channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
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)
7439.491667	---	43.10	54.00	10.90	150.0	V	173.0	8.4
7440.475000	46.74	---	74.00	27.26	150.0	V	173.0	8.4
9914.050000	52.82	---	74.00	21.18	150.0	V	242.0	10.8
9914.541667	---	48.42	54.00	5.58	150.0	V	242.0	10.8

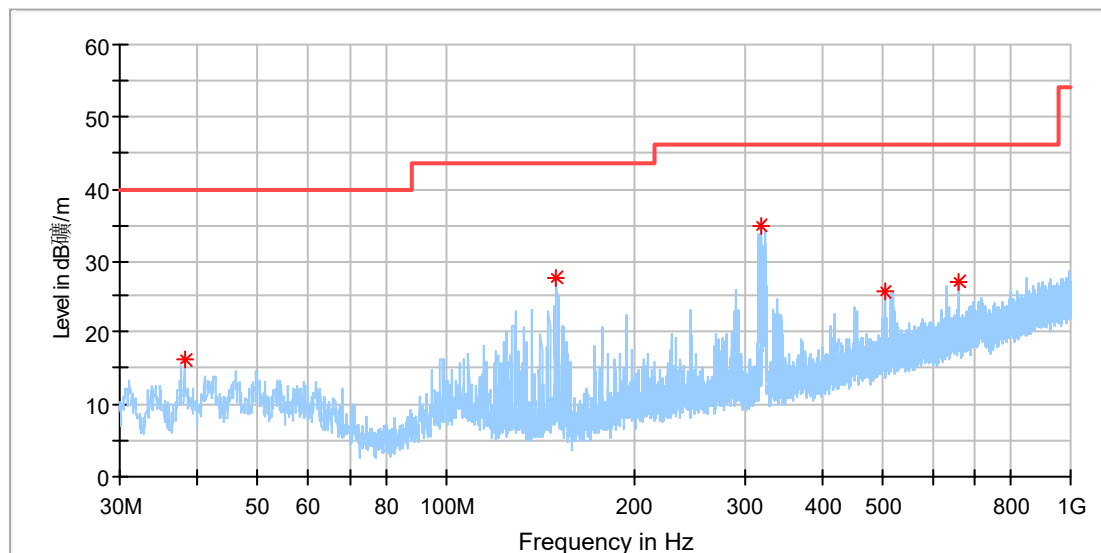
Final Result

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

30 MHz - 1GHz for co-location

EUT Information

EUT Name:	Bluetooth Speaker
Model:	X4i
Test Mode:	CO_BT+BLE
Order No/Sample No:	168514196/A003881759-003
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

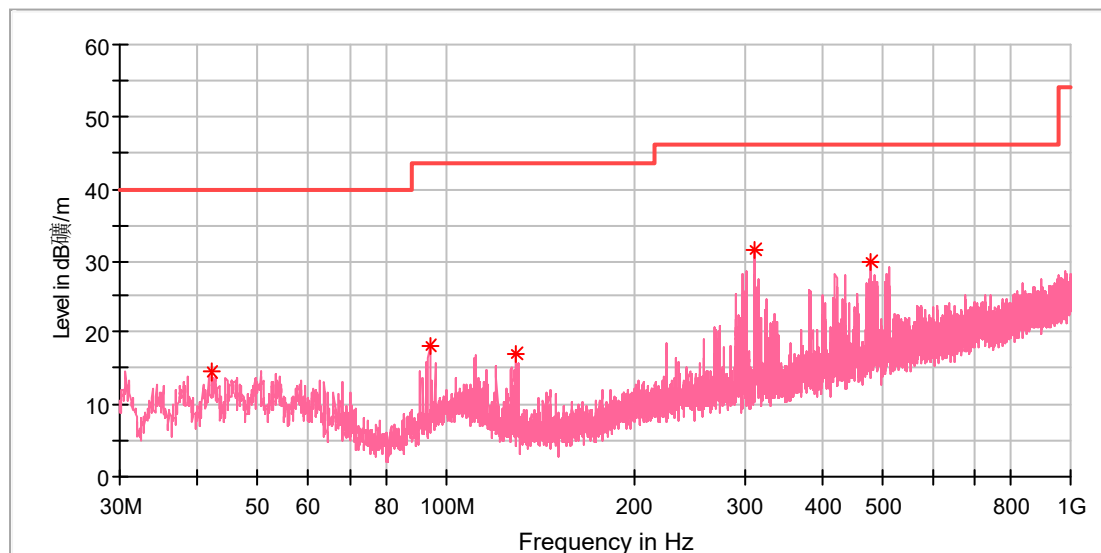
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.207692	16.12	40.00	23.88	100.0	H	273.0	-20.7
150.466539	27.62	43.50	15.88	100.0	H	196.0	-22.3
318.985385	35.00	46.00	11.00	100.0	H	170.0	-15.7
504.404615	25.71	46.00	20.29	100.0	H	0.0	-11.8
661.432692	27.13	46.00	18.87	100.0	H	0.0	-8.7

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: X4i
Test Mode: CO_BT+BLE
Order No/Sample No: 168514196/A003881759-003
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)
42.087692	14.53	40.00	25.47	100.0	V	82.0	-19.7
93.870769	18.06	43.50	25.44	100.0	V	280.0	-20.1
129.163846	17.13	43.50	26.37	100.0	V	158.0	-21.9
312.419231	31.63	46.00	14.37	100.0	V	183.0	-15.9
476.834231	29.95	46.00	16.05	100.0	V	112.0	-12.2

Final Result

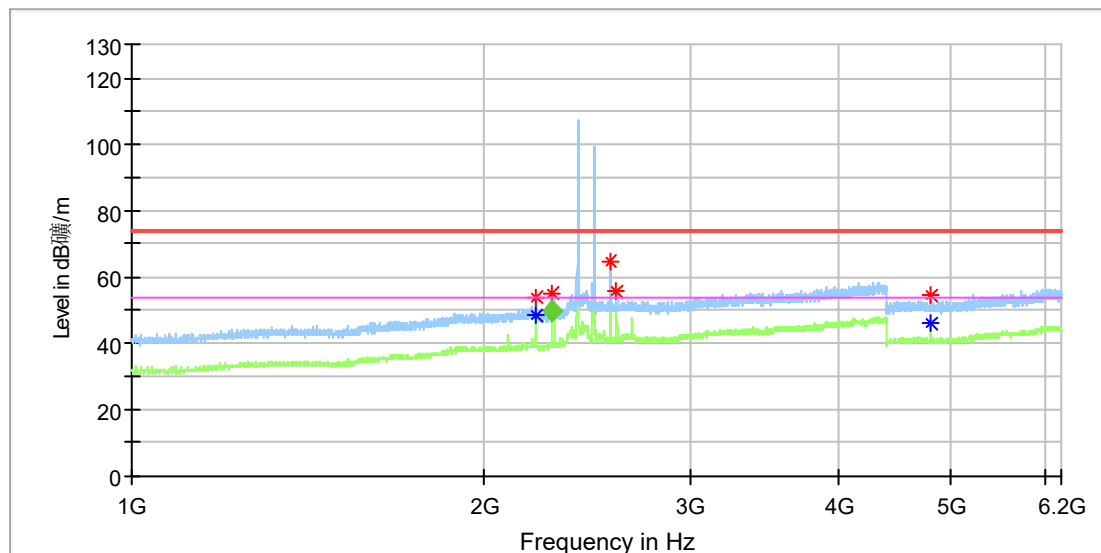
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz for co-location

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

EUT Information

EUT Name:	Bluetooth Speaker
Model:	X4i
Test Mode:	CO_BT+BLE
Order No/Sample No:	168514196/A003881759-003
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

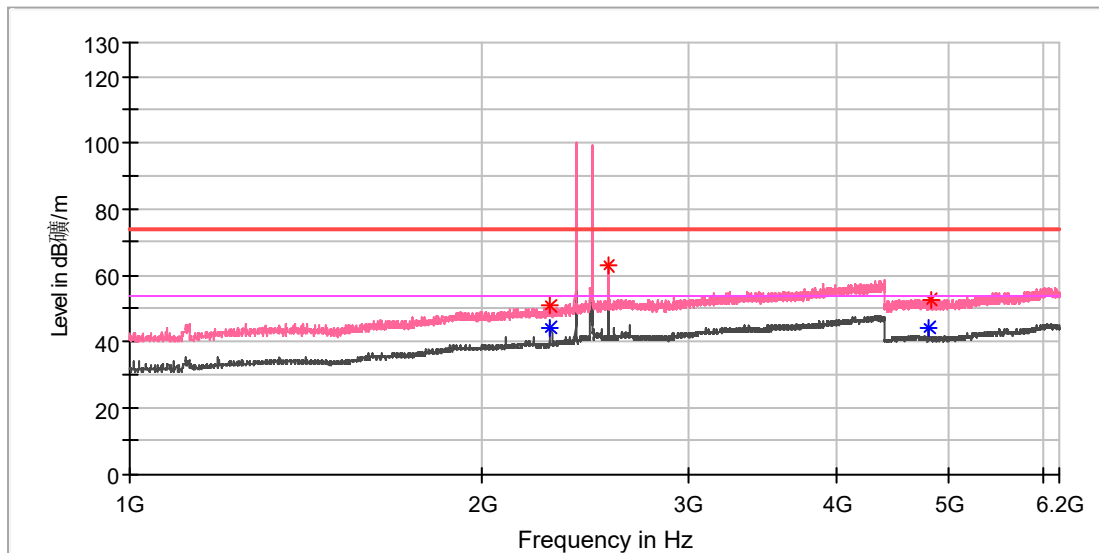
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2210.000000	53.66	---	74.00	20.34	150.0	H	115.0	7.9
2210.000000	---	48.53	54.00	5.47	150.0	H	115.0	7.9
2288.000000	54.78	---	74.00	19.22	150.0	H	124.0	8.0
2558.000000	64.46	---	68.20	3.74	150.0	H	266.0	9.5
2594.000000	55.33	---	68.20	12.87	150.0	H	99.0	9.5
4804.000000	54.43	---	74.00	19.57	150.0	H	98.0	13.3
4804.000000	---	46.06	54.00	7.94	150.0	H	98.0	13.3

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2287.980882	49.88	54.00	4.12	145.0	H	119.0	8.0

EUT Information

EUT Name: Bluetooth Speaker
Model: X4i
Test Mode: CO_BT+BLE
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

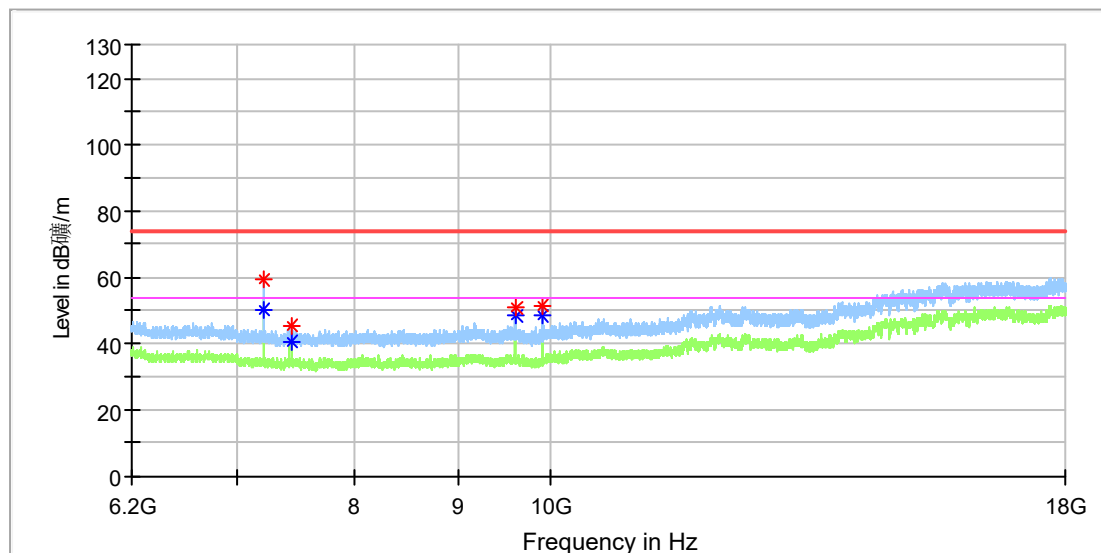
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2288.000000	50.72	---	74.00	23.28	150.0	V	38.0	8.0
2288.000000	---	44.39	54.00	9.61	150.0	V	38.0	8.0
2558.000000	62.73	---	68.20	5.47	150.0	V	234.0	9.5
4804.000000	---	44.08	54.00	9.92	150.0	V	254.0	13.3
4813.500000	52.75	---	74.00	21.25	150.0	V	131.0	13.3

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: X4i
Test Mode: CO_BT+BLE
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

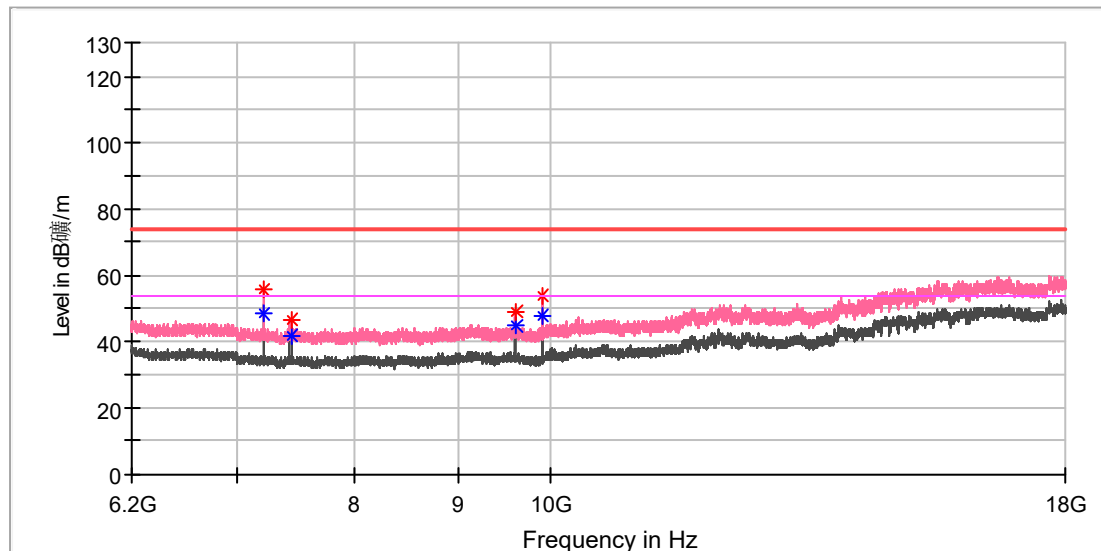
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.966667	---	49.95	54.00	4.05	150.0	H	311.0	8.8
7205.950000	58.98	---	74.00	15.02	150.0	H	210.0	8.8
7439.983333	---	40.35	54.00	13.66	150.0	H	91.0	8.4
7440.475000	45.57	---	74.00	28.43	150.0	H	91.0	8.4
9608.233333	50.61	---	74.00	23.39	150.0	H	210.0	10.4
9608.233333	---	48.21	54.00	5.79	150.0	H	210.0	10.4
9913.558333	---	48.20	54.00	5.80	150.0	H	167.0	10.8
9913.558333	51.68	---	74.00	22.32	150.0	H	167.0	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: X4i
Test Mode: CO_BT+BLE
Order No/Sample No: 168514196/A003881759-003
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)
7204.966667	---	48.17	54.00	5.84	150.0	V	277.0	8.8
7205.458333	55.92	---	74.00	18.08	150.0	V	277.0	8.8
7439.491667	46.26	---	74.00	27.74	150.0	V	166.0	8.4
7439.983333	---	41.54	54.00	12.46	150.0	V	166.0	8.4
9607.741667	---	44.67	54.00	9.33	150.0	V	144.0	10.4
9607.741667	49.20	---	74.00	24.80	150.0	V	144.0	10.4
9914.050000	54.06	---	74.00	19.94	150.0	V	242.0	10.8
9914.541667	---	47.62	54.00	6.38	150.0	V	242.0	10.8

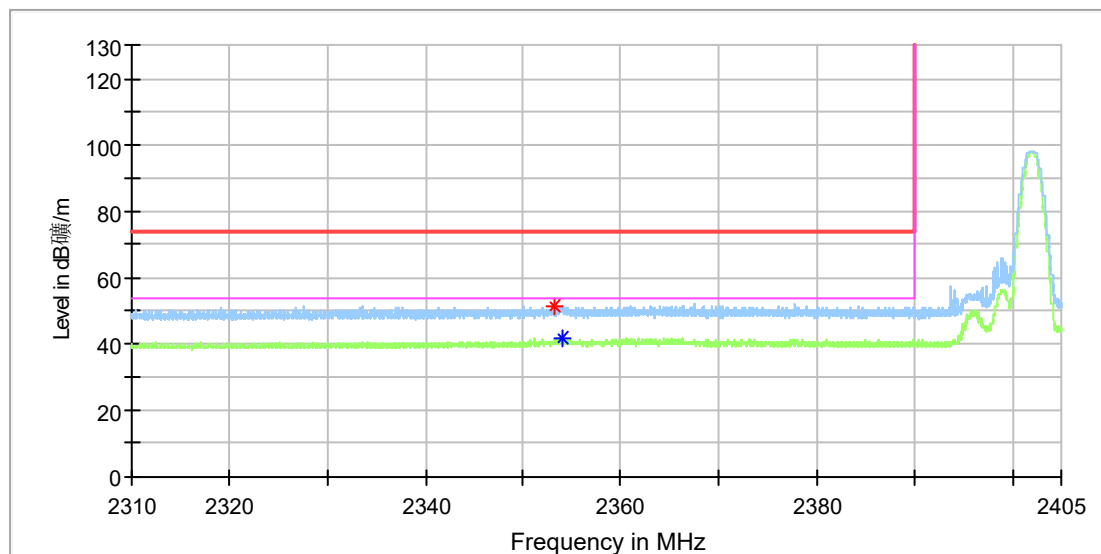
Final_Result

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

Appendix A.9: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name: Bluetooth Speaker
Model: X4i
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168514196/A003881759-003
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

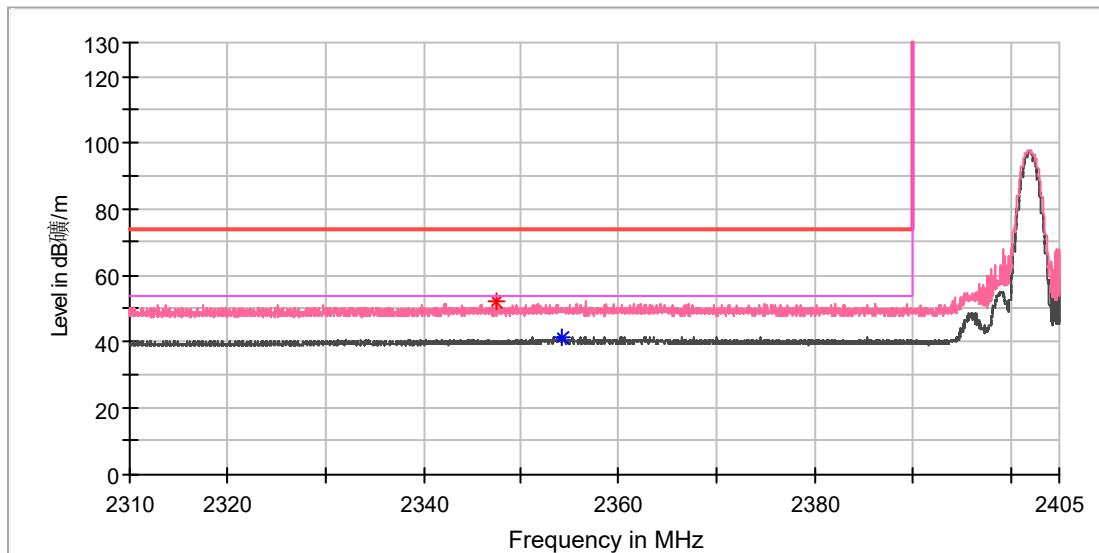
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2353.117647	51.39	---	74.00	22.61	150.0	H	168.0	8.5
2353.941177	---	41.91	54.00	12.09	150.0	H	234.0	8.5

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:	X4i
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168514196/A003881759-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

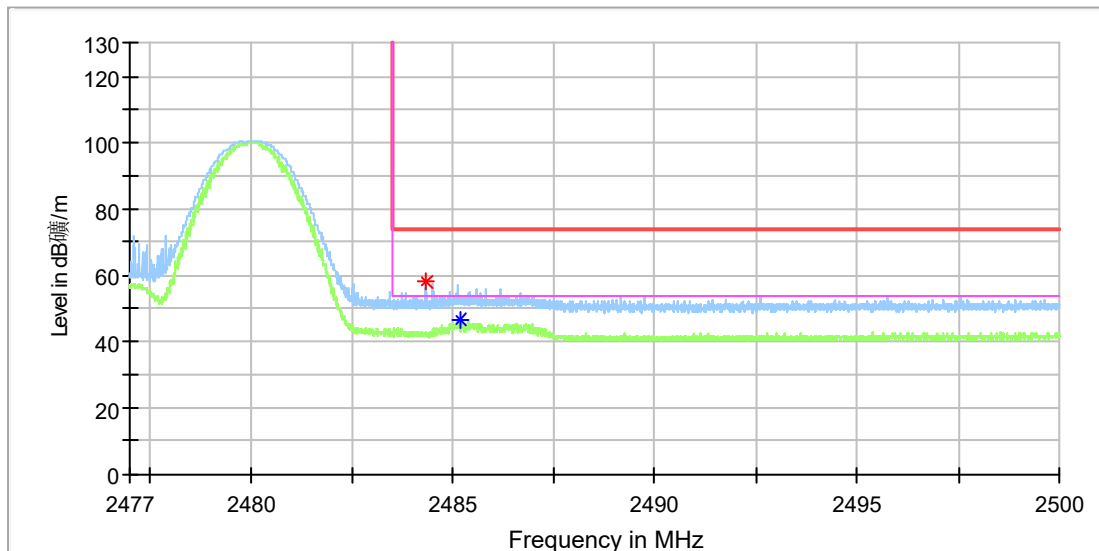
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2347.529412	52.11	---	74.00	21.89	150.0	V	96.0	8.5
2354.220588	---	41.31	54.00	12.69	150.0	V	78.0	8.5

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:	X4i
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168514196/A003881759-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

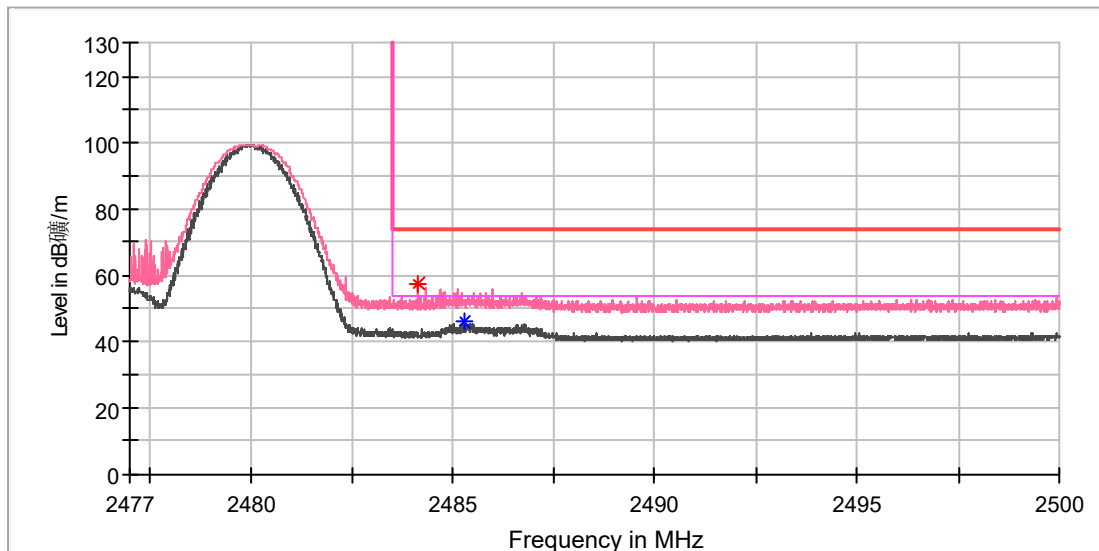
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.345588	57.80	---	74.00	16.20	150.0	H	258.0	9.0
2485.187500	---	46.26	54.00	7.74	150.0	H	243.0	9.0

Final Result

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

EUT Information

EUT Name:	Bluetooth Speaker
Model:	X4i
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168514196/A003881759-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
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)
2484.158088	57.74	---	74.00	16.26	150.0	V	68.0	9.0
2485.268382	---	46.09	54.00	7.91	150.0	V	215.0	9.0

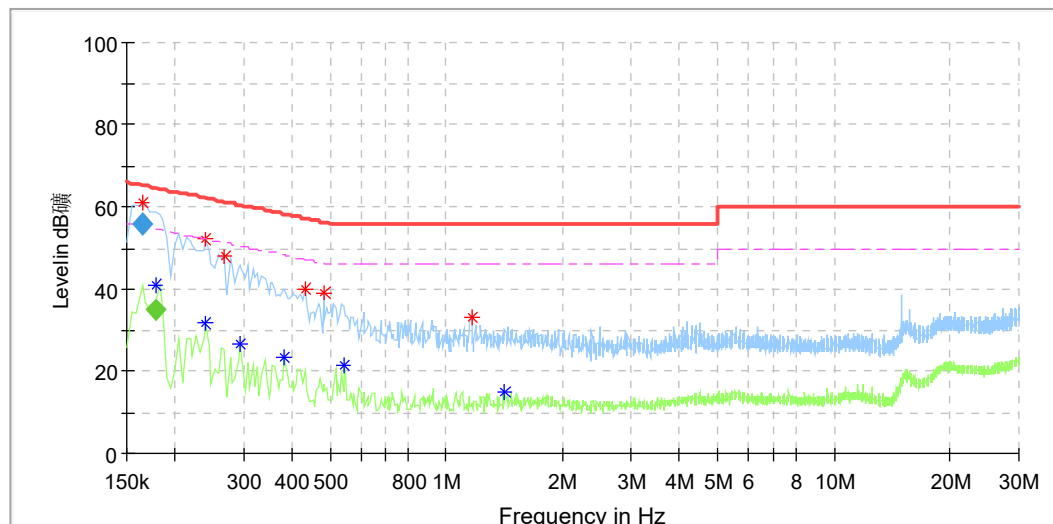
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.10: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: Bluetooth Speaker
Order Number: 168514196
Model: X4i
Test Mode: BT Link
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By:/Review By: Birch Zhang / Shower Dai
Tem./Hum./Pressure: 24.0°C/50.4%/101kPa
Remark: SR3



Critical Freqs

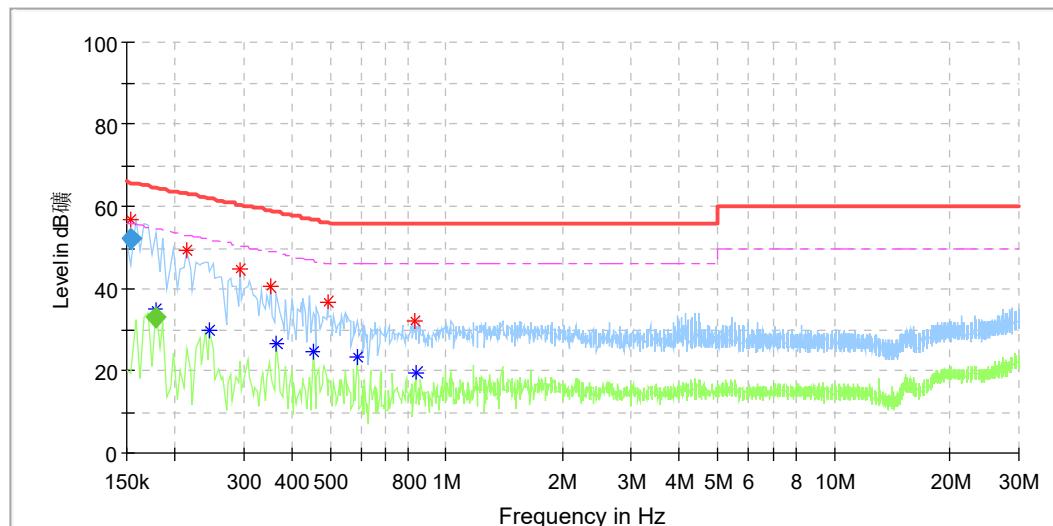
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.163500	60.85	---	65.06	4.21	L1	9.9
0.177000	---	41.12	54.42	13.30	L1	9.9
0.240000	51.89	---	62.10	10.21	L1	9.9
0.240000	---	31.40	52.10	20.70	L1	9.9
0.267000	47.86	---	61.21	13.35	L1	9.9
0.294000	---	26.63	50.41	23.78	L1	9.9
0.384000	---	23.13	48.19	25.07	L1	9.9
0.433500	39.88	---	57.19	17.30	L1	9.9
0.483000	39.27	---	56.29	17.02	L1	10.0
0.546000	---	21.37	46.00	24.63	L1	10.0
1.162500	33.05	---	56.00	22.95	L1	10.1
1.414500	---	14.75	46.00	31.25	L1	10.1

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.163500	55.74	---	65.28	9.54	1000.0	9.000	L1	9.9
0.177000	---	35.06	54.63	19.57	1000.0	9.000	L1	9.9

EUT Information

EUT Name: Bluetooth Speaker
Order Number: 168514196
Model: X4i
Test Mode: BT Link
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By./Review By: Birch Zhang / Shower Dai
Tem./Hum./Pressure: 24.0°C/50.4%/101kPa
Remark: SR3



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.153500	56.68	---	65.57	8.88	N	9.8
0.177500	---	34.78	54.58	19.80	N	9.8
0.214000	49.47	---	63.05	13.58	N	9.8
0.246000	---	29.86	51.89	22.03	N	9.8
0.294000	44.74	---	60.41	15.67	N	9.8
0.354000	40.26	---	58.87	18.60	N	9.8
0.366000	---	26.59	48.59	22.00	N	9.8
0.454000	---	24.53	46.80	22.27	N	9.8
0.494000	36.79	---	56.10	19.31	N	9.8
0.586000	---	23.07	46.00	22.93	N	9.8
0.826000	32.23	---	56.00	23.77	N	9.8
0.834000	---	19.54	46.00	26.46	N	9.8

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.153500	52.11	---	65.81	13.70	1000.0	9.000	N	9.8
0.177500	---	33.01	54.60	21.59	1000.0	9.000	N	9.8