

Prüfbericht-Nr.: Test report no.:	CN23VFCA 002	Auftrags-Nr.: Order no.:	168429638	Page 1 of 21 Seite 1 von 21
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2023-05-26	
Auftraggeber: Client:	Edifier International Limited P.O. Box 6264 General Post Office Hong Kong			
Prüfgegenstand: Test item:	Wireless Noise Cancellation Over-Ear Headphones			
Bezeichnung / Typ-Nr.: Identification / Type no.:	EDF200126 (Trademark: EDIFIER, Xemal)			
Auftrags-Inhalt: Order content:	Type test			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209		RSS-247 Issue 2 February 2017 RSS-Gen Issue 5 March 2019	
Wareneingangsdatum: Date of sample receipt:	2023-06-07	Refer to photos document		
Prüfmuster-Nr.: Test sample no.:	A003498734-001, 002			
Prüfzeitraum: Testing period:	2023-06-19 – 2023-07-06			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	X 		genehmigt von: authorized by:	X 
Datum: Date:	2023-07-07	Ausstellungsdatum: Issue date:		2023-07-10
Stellung / Position:	Project Manager		Stellung / Position:	Reviewer
Sonstiges / Other:	FCC ID: Z9G-EDF208 IC: 10004A-EDF208 HVIN: EDF200126			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* 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
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Prüfbericht - Nr.: CN23VFCA 002
Test Report No.:

Seite 2 von 21
Page 2 of 21

Anmerkungen Remarks

- | | |
|----------|--|
| 1 | <p>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</p> <p>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</p> <p><i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</i></p> <p><i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
| 2 | <p>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</p> <p><i>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</i></p> |
| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</p> <p><i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i></p> |
| 4 | <p>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.</p> <p><i>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></p> |

Prüfbericht-Nr.: **CN23VFCA 002**
Test report no.:

Seite 3 von 21
Page 3 of 21

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 99%dB BANDWIDTH

RESULT: Pass

5.1.5 6dB BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

Prüfbericht-Nr.: CN23VFCA 002
Test report no.:

Seite 4 von 21
Page 4 of 21

Contents

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES.....	5
2.1	TEST FACILITIES.....	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	6
2.3	TRACEABILITY	7
2.4	CALIBRATION	7
2.5	MEASUREMENT UNCERTAINTY	7
2.6	LOCATION OF ORIGINAL DATA	7
2.7	STATUS OF FACILITY USED FOR TESTING	7
3	GENERAL PRODUCT INFORMATION.....	8
3.1	PRODUCT FUNCTION AND INTENDED USE.....	8
3.2	RATINGS AND SYSTEM DETAILS	8
3.3	INDEPENDENT OPERATION MODES	10
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	10
3.5	SUBMITTED DOCUMENTS.....	10
4	TEST SET-UP AND OPERATION MODES	11
4.1	PRINCIPLE OF CONFIGURATION SELECTION	11
4.2	TEST OPERATION AND TEST SOFTWARE	11
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	11
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	11
4.5	TEST SETUP DIAGRAM	12
5	TEST RESULTS.....	14
5.1	TRANSMITTER REQUIREMENT & TEST SUITES.....	14
5.1.1	<i>Antenna Requirement.....</i>	<i>14</i>
5.1.2	<i>Maximum Peak Conducted Output Power.....</i>	<i>15</i>
5.1.3	<i>Conducted Power Spectral Density.....</i>	<i>16</i>
5.1.4	<i>99%dB Bandwidth</i>	<i>17</i>
5.1.5	<i>6dB Bandwidth</i>	<i>18</i>
5.1.6	<i>Conducted Spurious Emissions Measured in 100 kHz Bandwidth</i>	<i>19</i>
5.1.7	<i>Radiated Spurious Emission.....</i>	<i>20</i>
6	PHOTOGRAPHS OF THE TEST SET-UP	21
7	LIST OF TABLES	21

Prüfbericht-Nr.: **CN23VFCA 002**
Test report no.:

Seite 5 von 21
Page 5 of 21

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: Photographs of the Test Set-up

Appendix B: Test Results.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China/518110

FCC Registration No.: 694916

IC Registration No.: 25069 and the CAB identifier is CN0078.

Prüfbericht-Nr.: CN23VFCA 002
Test report no.:

Seite 6 von 21
Page 6 of 21

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2023-10-10
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2023-10-10
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2023-10-10
DC Power Supply	Keysight	E3642A	MY61276100	2023-10-10
Wireless Connectivity Tester	R&S	CMW270	102505	2023-10-10
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2023-10-10
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2023-10-10
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	Y LX23JMF	N/A
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2023-08-02
Signal Analyzer	R&S	FSV 40	101439	2023-08-01
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2023-08-01
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2023-08-02
Amplifier	R&S	SCU-18F	180070	2023-08-02
Amplifier	R&S	SCU40A	100475	2023-08-02
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-08-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-08-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2023-08-06
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

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.

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	± 2.08 %
RF output power, conducted	± 0.99 dB
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China/518110 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 EUT is Bluetooth Headset, which supports Bluetooth dual mode technology.

The Classical Bluetooth and Bluetooth low energy can't transmit at the same time.

Alternative two different built-in batteries:

Description	Manufacturer	Model	Rating
Li-ion Polymer Battery	Golden CEL	503035	DC 3.7V, 500mAh
Li-ion Polymer Battery	WeAction	503035	DC 3.7V, 500mAh

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Wireless Noise Cancellation Over-Ear Headphones
Type Designation	EDF200126
Trademark	EDIFIER, Xemal
FCC ID	Z9G-EDF208
IC	10004A-EDF208
HVIN	EDF200126
Extreme Temperature Range	0°C - +35°C
Operating Voltage	DC 5V, 1A via Type C interface or DC 3.7V, 500mAh via built-in battery
Technical Specification of Classical Bluetooth	
Bluetooth Core Version	Bluetooth 5.3
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	PCB antenna
Antenna Gain	2.0 dBi (Provided by the Client)
Technical Specification of Bluetooth Low Energy	
Bluetooth Core Version	Bluetooth 5.3
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	40 channels
Channel separation	2MHz
Data rate	1Mbps, 2Mbps
Modulation	GFSK
Antenna Type	PCB antenna
Antenna Gain	2.0 dBi (Provided by the Client)

Prüfbericht-Nr.: **CN23VFCA 002**
Test report no.:

Seite 9 von 21
Page 9 of 21

Table 3: RF Channel and Frequency of Classic Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	20	2422.00	40	2442.00	60	2462.00
01	2403.00	21	2423.00	41	2443.00	61	2463.00
02	2404.00	22	2424.00	42	2444.00	62	2464.00
03	2405.00	23	2425.00	43	2445.00	63	2465.00
04	2406.00	24	2426.00	44	2446.00	64	2466.00
05	2407.00	25	2427.00	45	2447.00	65	2467.00
06	2408.00	26	2428.00	46	2448.00	66	2468.00
07	2409.00	27	2429.00	47	2449.00	67	2469.00
08	2410.00	28	2430.00	48	2450.00	68	2470.00
09	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	--	--

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth LE transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, Bluetooth connecting mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|----------------------------------|------------------|
| - Application Form | - Photo Document |
| - Block Diagram | - Schematics |
| - FCC/IC Label and Location Info | - User Manual |
| - 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 testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all test items were applied on model EDF200126 with Golden CEL Battery.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

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 30MHz)

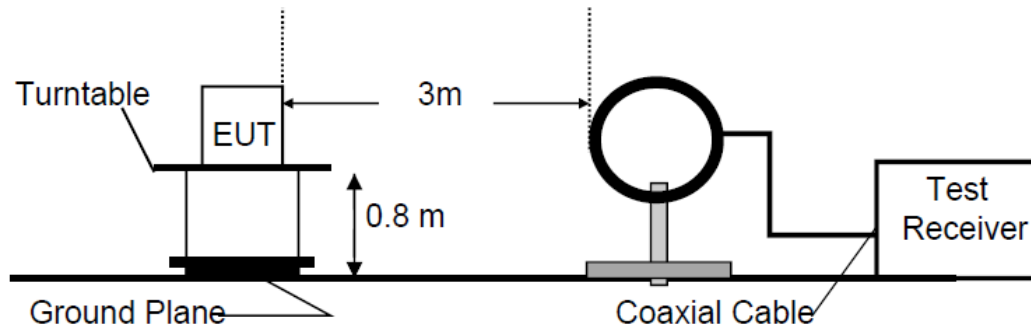


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

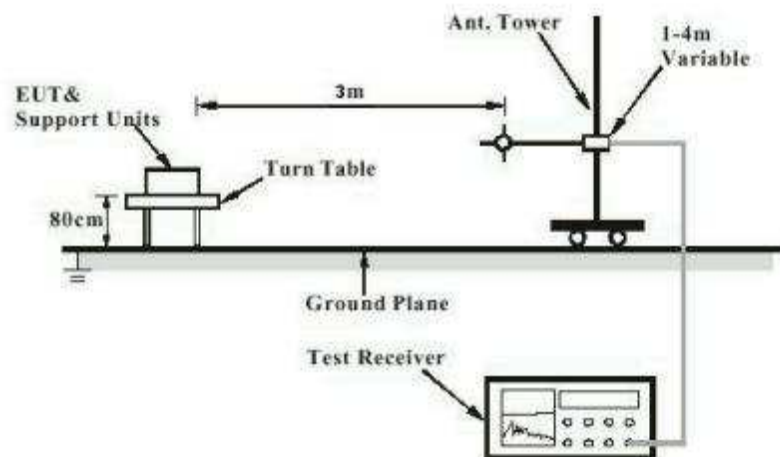


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

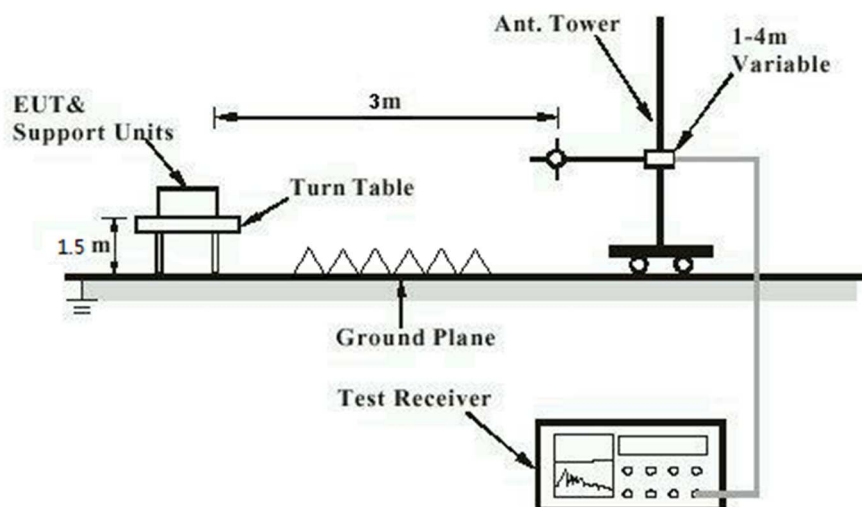
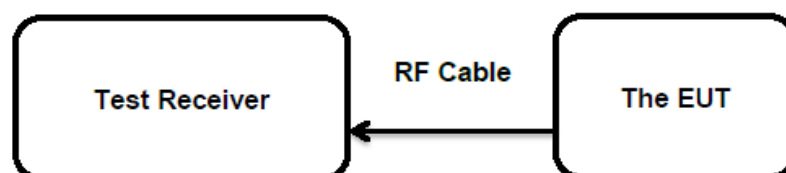


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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
	:	RSS-Gen Clause 6.7
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has one PCB Layout antenna, the directional gain of antennas is 2 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.

Prüfbericht-Nr.: CN23VFCA 002
Test report no.:

Seite 15 von 21
Page 15 of 21

5.1.2 Maximum Conducted Output Power

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(b)(3)
 : RSS-247 Clause 5.4(d)
 Basic standard : ANSI C63.10: 2013
 Limits : < 1 Watt (Maximum Conducted Peak Power)
 : e.i.r.p. <4W
 Kind of test site : Shielded Room

Test Setup

Date of testing : 2023-06-19 to 2023-07-06
 Input voltage : DC 3.7V
 Operation mode : A
 Test channel : Low / Middle / High
 Ambient temperature : 25.8 °C
 Relative humidity : 63 %
 Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 6: Test Result of Maximum Conducted Output Power, Left earbud

Test Mode	Channel Frequency (MHz)	Measured Average Output Power		Limit
		(dBm)	(W)	(W)
BLE 1Mbps	2402	4.01	0.00252	< 1
	2440	3.31	0.00214	
	2480	3.96	0.00249	
BLE 2Mbps	2402	3.95	0.00248	
	2440	3.28	0.00213	
	2480	3.94	0.00248	
Maximum Measured Value		4.01	0.00252	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 6.01 dBm less than 4W (36 dBm).

Prüfbericht-Nr.: CN23VFCA 002
Test report no.:

Seite 16 von 21
Page 16 of 21

5.1.3 Conducted Power Spectral Density

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(e)
 : RSS-247 Clause 5.2(b)
 Basic standard : ANSI C63.10: 2013
 Limits : 8 dBm / 3kHz
 Kind of test site : Shielded Room

Test Setup

Date of testing : 2023-06-19 to 2023-07-06
 Input voltage : DC 3.7V
 Operation mode : A
 Test channel : Low / Middle / High
 Ambient temperature : 25.8 °C
 Relative humidity : 63 %
 Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Table 7: Test Result of Conducted Power Spectral Density

Test Mode	Channel Frequency (MHz)	Conducted Power Spectral Density	Limit
		(dBm / 3kHz)	
BLE 1Mbps	2402	-10.29	8 dBm / 3kHz
	2440	-11.45	
	2480	-10.98	
BLE 2Mbps	2402	-12.39	8 dBm / 3kHz
	2440	-13.32	
	2480	-12.84	

Prüfbericht-Nr.: CN23VFCA 002
Test report no.:

Seite 17 von 21
Page 17 of 21

5.1.4 99%dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : RSS-Gen clause 6.7
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2023-06-19 to 2023-07-06
Input voltage : DC 3.7V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 25.8 °C
Relative humidity : 63 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Table 8: Test Result of 99% Bandwidth

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
BLE 1Mbps	2402	1.0206	/
	2440	1.0274	
	2480	1.0273	
BLE 2Mbps	2402	2.0222	/
	2440	2.0249	
	2480	2.0140	

Note: The fundamental emissions stay within the allocated band 2400-2483.5MHz.

Prüfbericht-Nr.: CN23VFCA 002
Test report no.:

Seite 18 von 21
Page 18 of 21

5.1.5 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)(2)
RSS-247 Clause 5.2(a)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2023-06-19 to 2023-07-06
Input voltage : DC 3.7V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 25.8 °C
Relative humidity : 63 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Table 9: Test Result of 6dB Bandwidth

Test Mode	Channel Frequency (MHz)	Measured 6dB Bandwidth	Limit
		(MHz)	
BLE 1Mbps	2402	0.660	>500kHz
	2440	0.648	
	2480	0.648	
BLE 2Mbps	2402	1.084	>500kHz
	2440	1.120	
	2480	1.060	

Prüfbericht-Nr.: **CN23VFCA 002**
Test report no.:Seite 19 von 21
Page 19 of 21**5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
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	: 2023-06-19 to 2023-07-06
Input voltage	: DC 3.7V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.8 °C
Relative humidity	: 63 %
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 B.

Prüfbericht-Nr.: **CN23VFCA 002**
Test report no.:Seite 20 von 21
Page 20 of 21

5.1.7 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3 & 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 4 & Table 5
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2023-06-19 to 2023-07-06
Input voltage	: DC 3.7V
Operation mode	: A
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 B.

6 Photographs of the Test Set-Up

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

7 List of Tables

Table 1: List of Test and Measurement Equipment.....	6
Table 2: Technical Specification of EUT	8
Table 3: RF Channel and Frequency of Classic Bluetooth.....	9
Table 4: RF Channel and Frequency of Bluetooth Low Energy.....	9
Table 5: List of Accessories and Auxiliary Equipment.....	11
Table 6: Test Result of Maximum Peak Conducted Output Power, Left earbud.....	15
Table 7: Test Result of Conducted Power Spectral Density.....	16
Table 8: Test Result of 99% Bandwidth	17
Table 9: Test Result of 6dB Bandwidth.....	18

Appendix B: Test Results

APPENDIX B: TEST RESULTS.....1

APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY.....2

APPENDIX B.2: TEST RESULTS OF 6dB BANDWIDTH3

APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH4

APPENDIX B.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH5

Conducted measurements.....5

Band edge measurements.....6

APPENDIX B.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS7

 30 MHz - 1GHz.....7

 1GHz - 18GHz8

APPENDIX B.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....9

Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.29	≤8.00	PASS
		2440	-11.45	≤8.00	PASS
		2480	-10.98	≤8.00	PASS
BLE_2M	Ant1	2402	-12.39	≤8.00	PASS
		2440	-13.32	≤8.00	PASS
		2480	-12.84	≤8.00	PASS

BLE 1M Ant1 2402



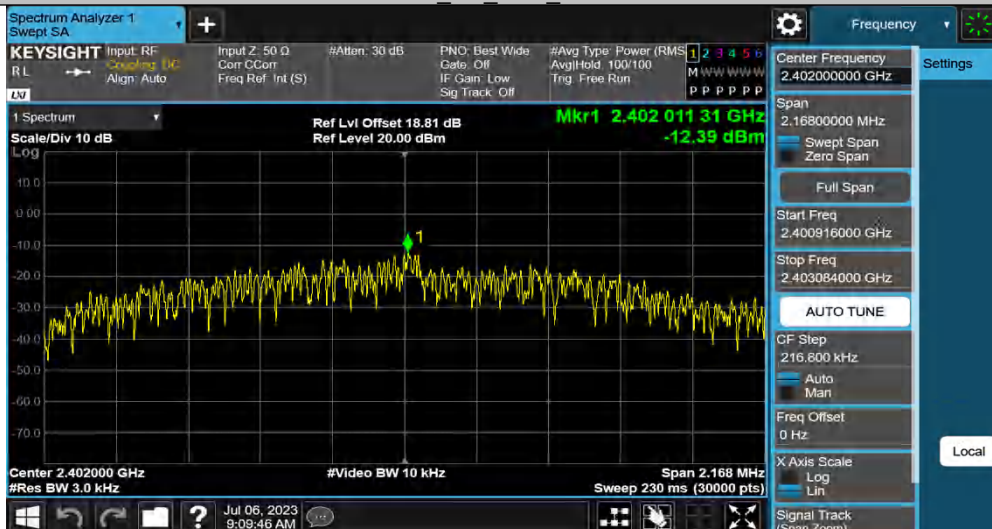
BLE 1M Ant1 2440



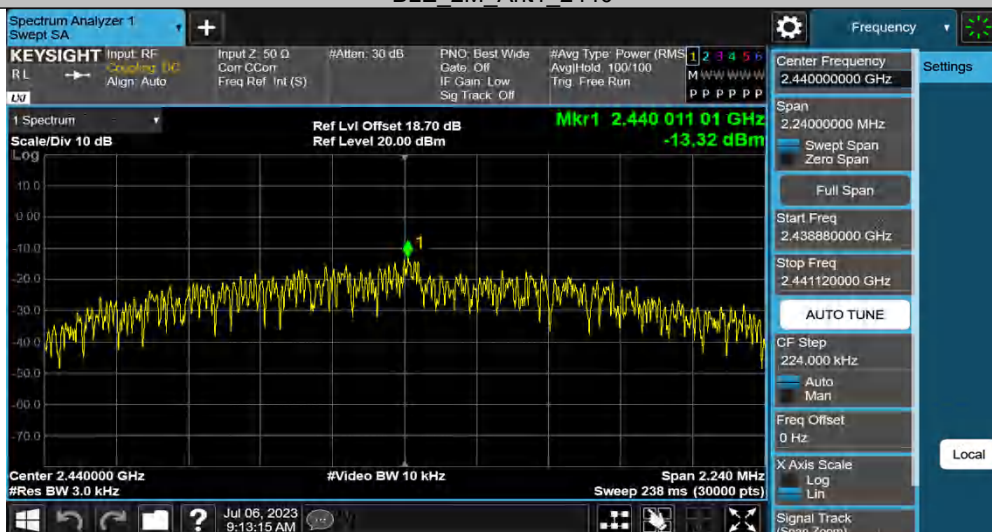
BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440





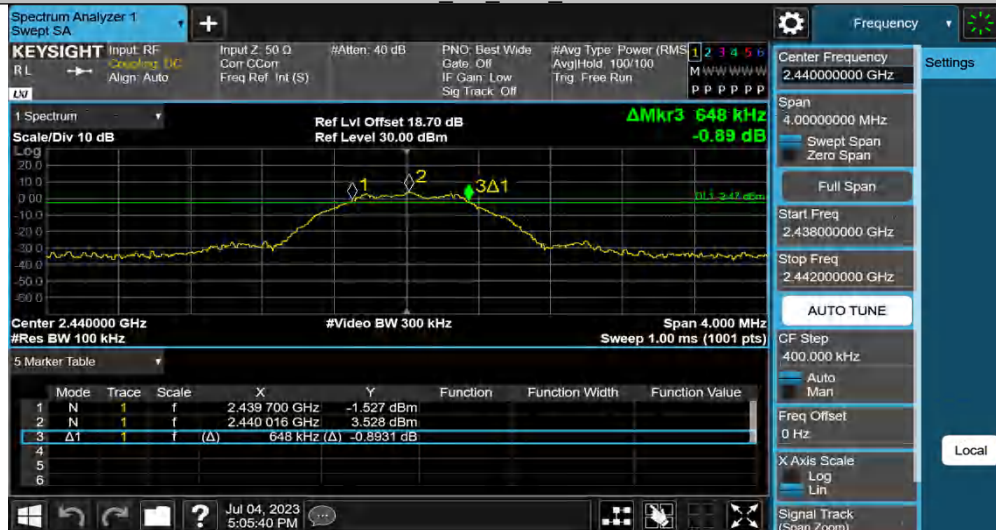
Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.684	2402.344	0.5	PASS
		2440	0.648	2439.700	2440.348	0.5	PASS
		2480	0.648	2479.684	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.084	2401.492	2402.576	0.5	PASS
		2440	1.120	2439.468	2440.588	0.5	PASS
		2480	1.060	2479.468	2480.528	0.5	PASS

BLE_1M Ant1 2402



BLE_1M Ant1 2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



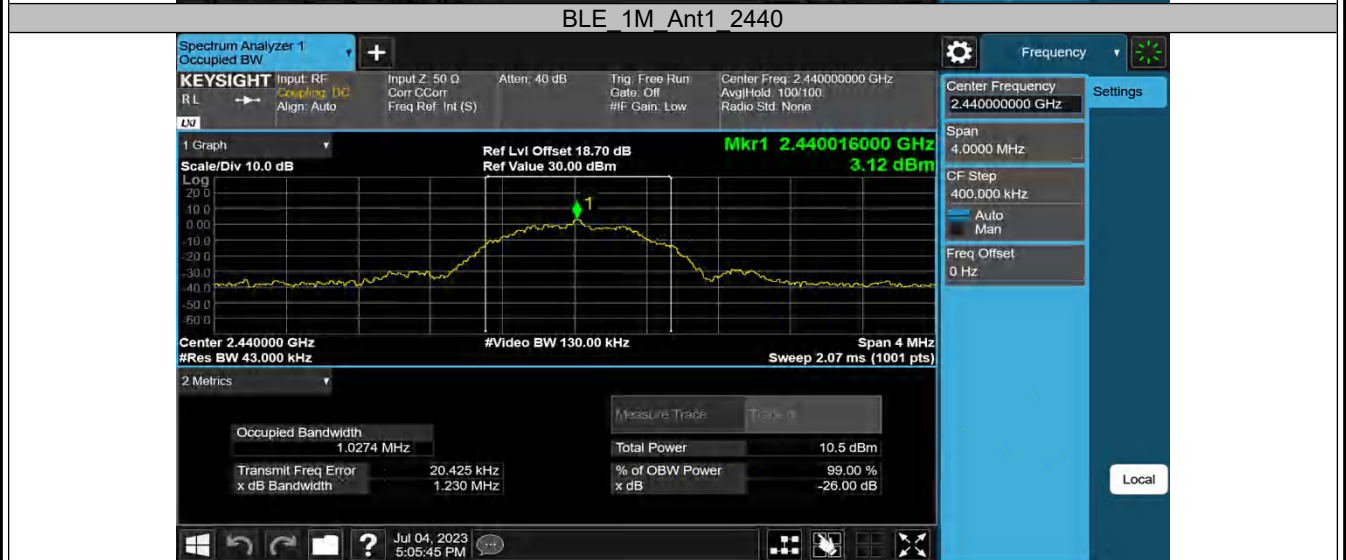
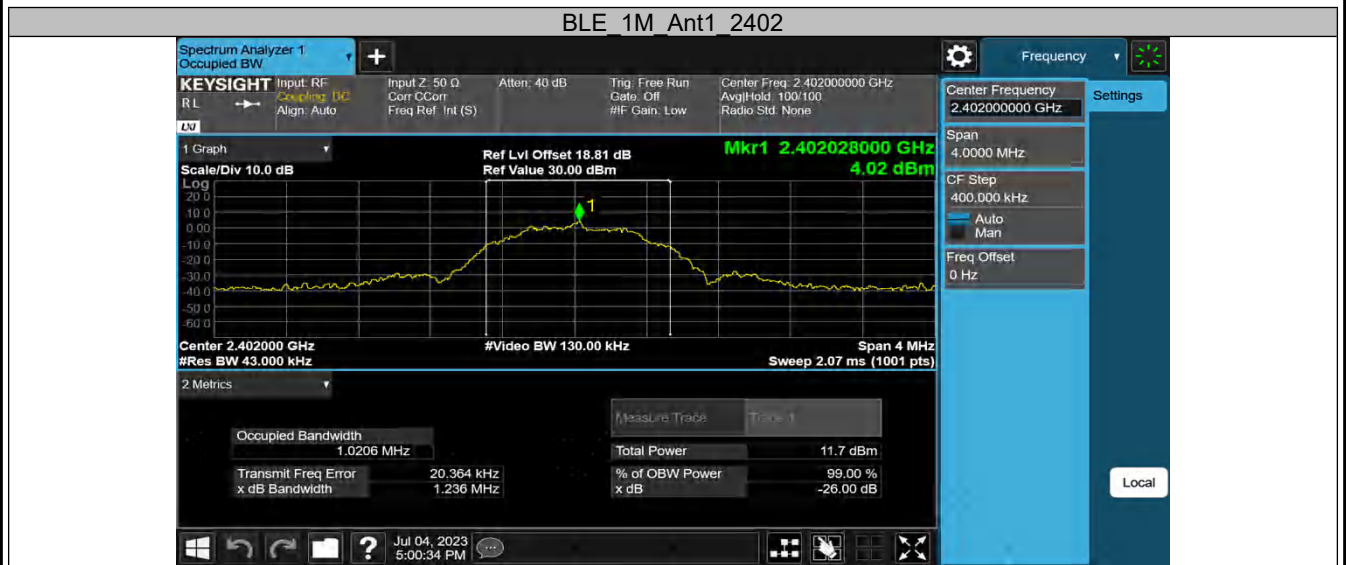
BLE 2M Ant1 2440





Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0206	2401.5101	2402.5307	---	---
		2440	1.0274	2439.5067	2440.5341	---	---
		2480	1.0273	2479.5100	2480.5373	---	---
BLE_2M	Ant1	2402	2.0222	2401.0282	2403.0504	---	---
		2440	2.0249	2439.0258	2441.0507	---	---
		2480	2.0140	2479.0279	2481.0419	---	---



BLE 1M Ant1 2480

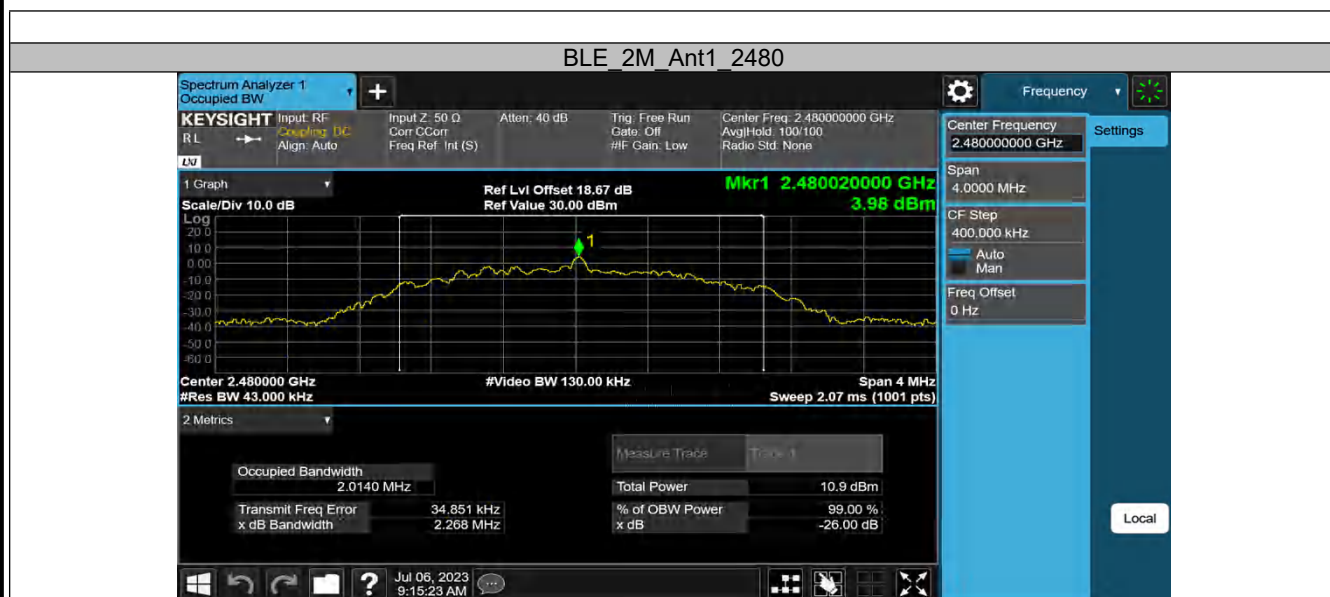


BLE 2M Ant1 2402



BLE 2M Ant1 2440





Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted measurements

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.32	3.32	---	PASS
			30~1000	3.32	-41.43	≤-16.68	PASS
			1000~26500	3.32	-31.77	≤-16.68	PASS
		2440	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-41.16	≤-17.37	PASS
			1000~26500	2.63	-32.34	≤-17.37	PASS
		2480	Reference	2.97	2.97	---	PASS
			30~1000	2.97	-41.59	≤-17.03	PASS
			1000~26500	2.97	-32.73	≤-17.03	PASS
BLE_2M	Ant1	2402	Reference	1.83	1.83	---	PASS
			30~1000	1.83	-41.41	≤-18.17	PASS
			1000~26500	1.83	-32.39	≤-18.17	PASS
		2440	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-41.7	≤-17.78	PASS
			1000~26500	2.22	-31.88	≤-17.78	PASS
		2480	Reference	1.35	1.35	---	PASS
			30~1000	1.35	-41.15	≤-18.65	PASS
			1000~26500	1.35	-32.28	≤-18.65	PASS

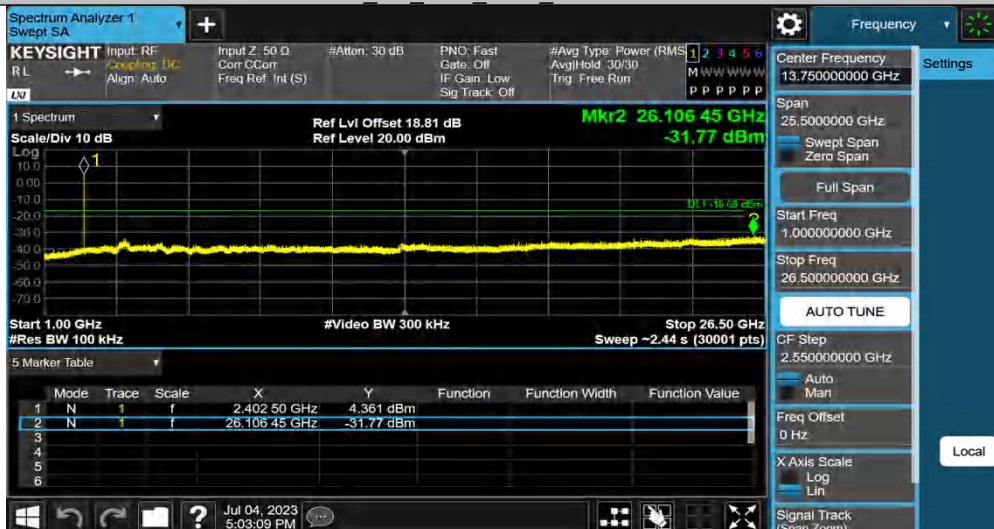
BLE_1M Ant1 2402 0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



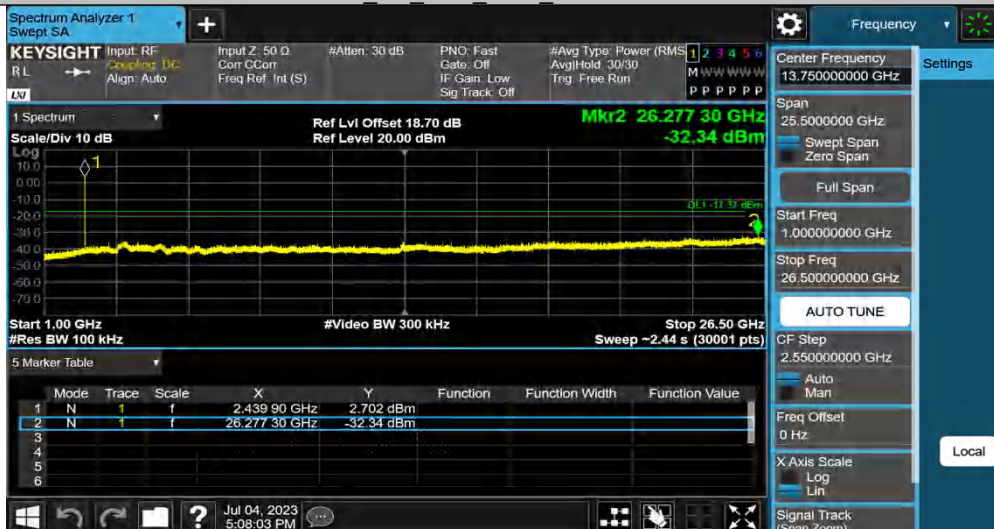
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE 1M Ant1 2480 30~1000



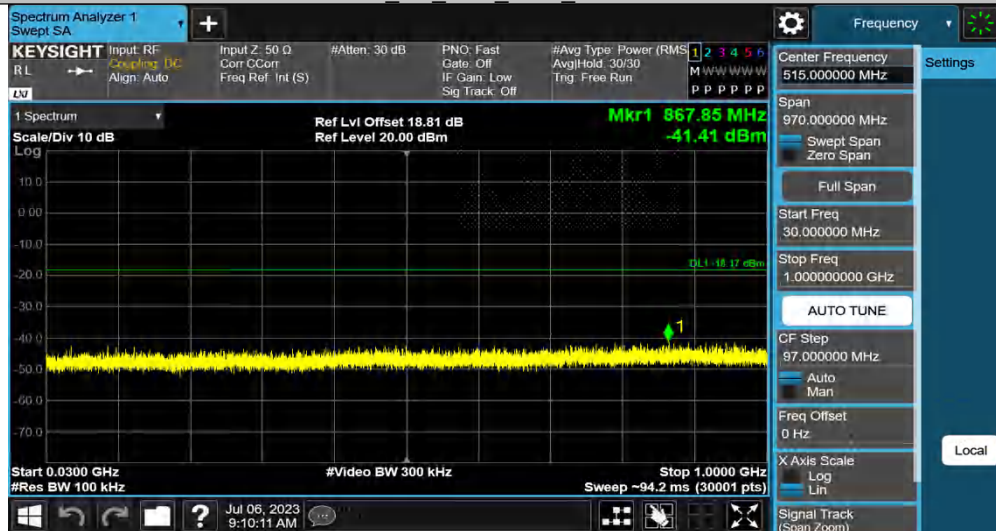
BLE 1M Ant1 2480 1000~26500



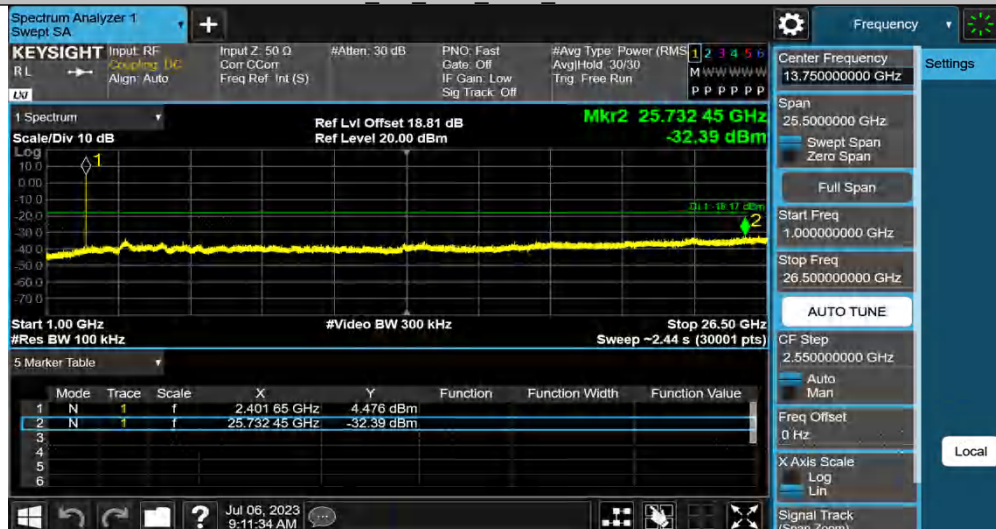
BLE 2M Ant1 2402 0~Reference



BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



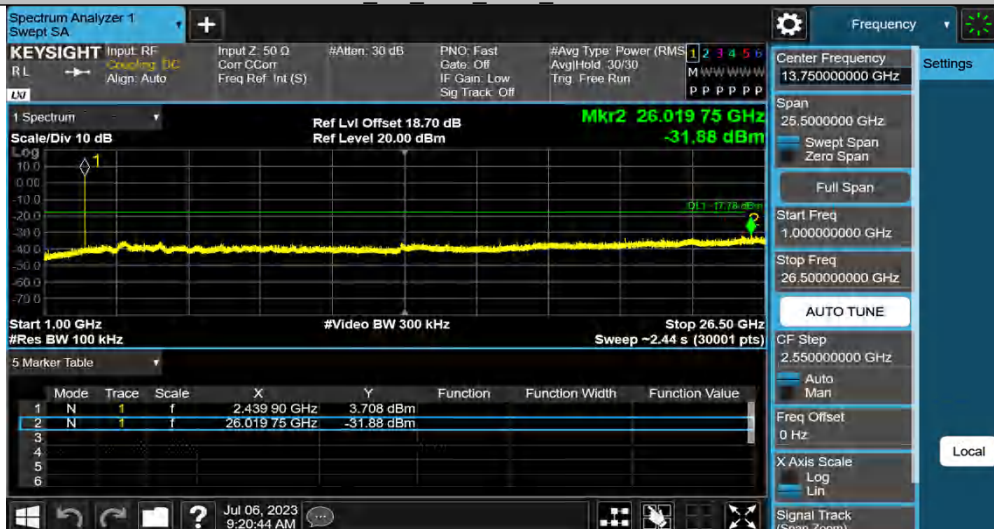
BLE_2M_Ant1_2440_0~Reference



BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

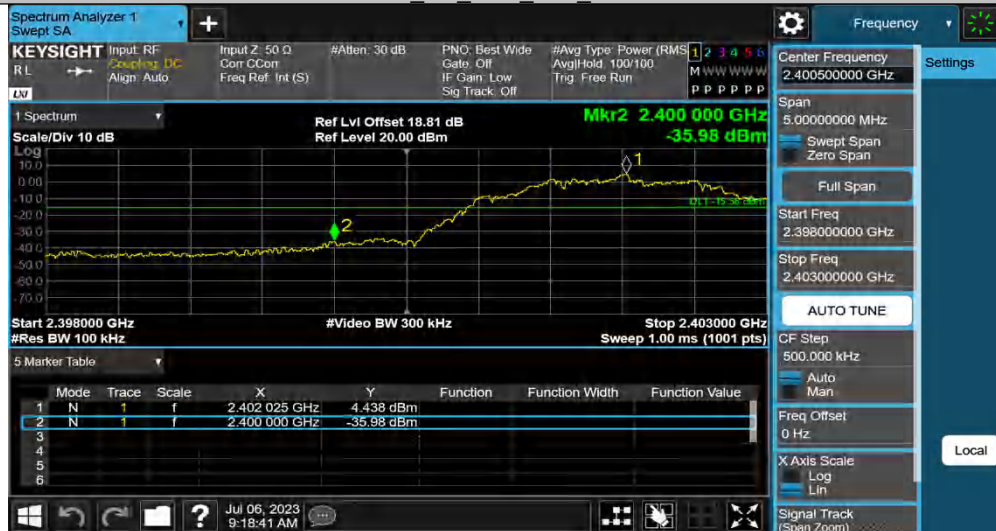


Band edge measurements

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.71	-45.15	≤-15.29	PASS
		High	2480	4.19	-43.58	≤-15.81	PASS
BLE_2M	Ant1	Low	2402	4.44	-35.98	≤-15.56	PASS
		High	2480	4.44	-43.9	≤-15.57	PASS



BLE 2M Ant1 Low 2402



BLE 2M Ant1 High 2480



Appendix B.5: Test Results of Radiated Spurious Emissions

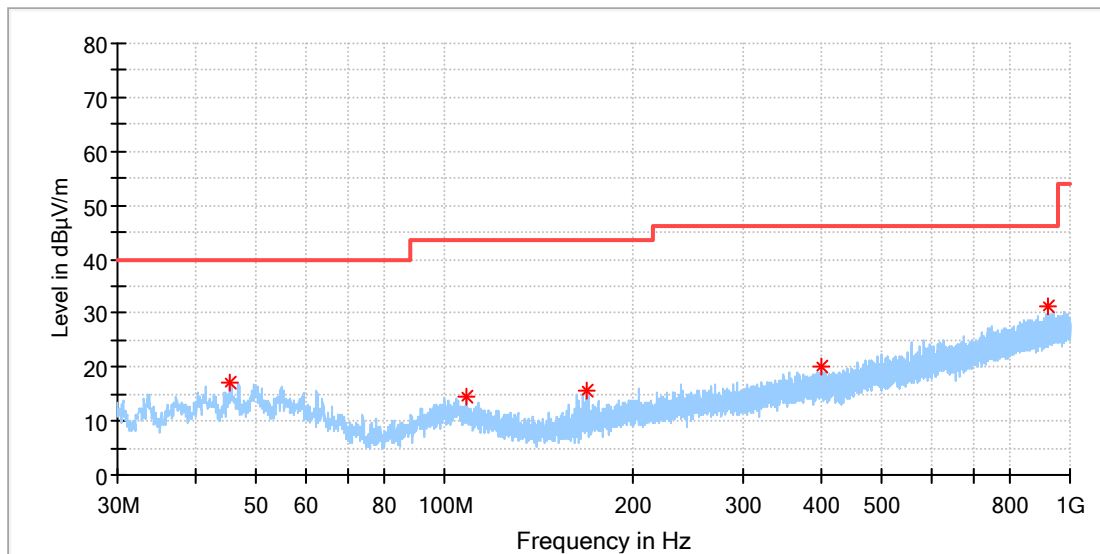
Note:

- 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:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

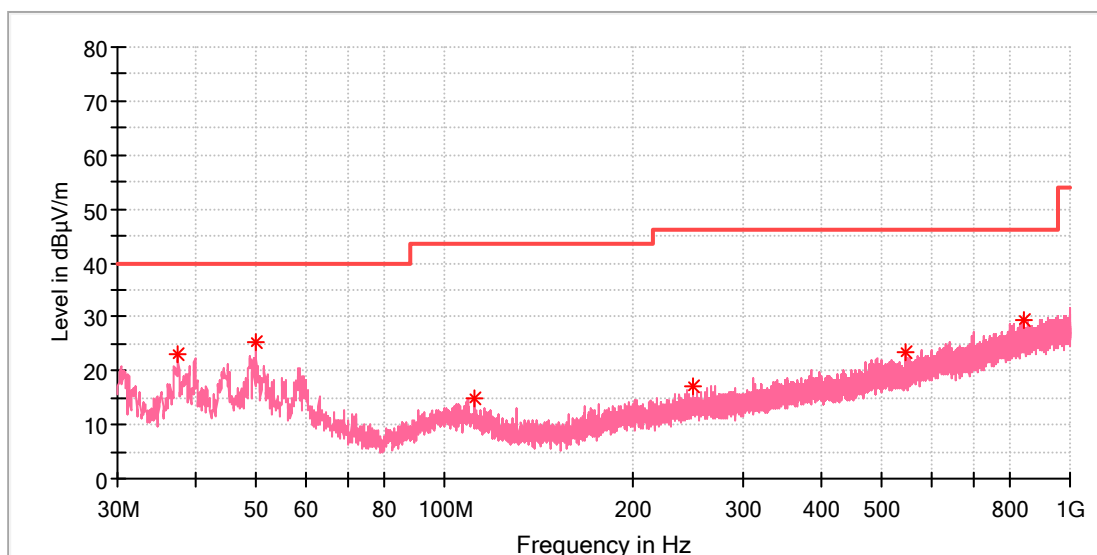


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.277500	17.23	40.00	22.77	100.0	H	73.0	-18.8
108.036500	14.50	43.50	29.00	100.0	H	2.0	-18.9
168.467500	15.77	43.50	27.73	100.0	H	27.0	-21.3
400.831000	20.02	46.00	25.98	100.0	H	206.0	-13.6
920.169000	31.39	46.00	14.61	100.0	H	192.0	-4.8

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

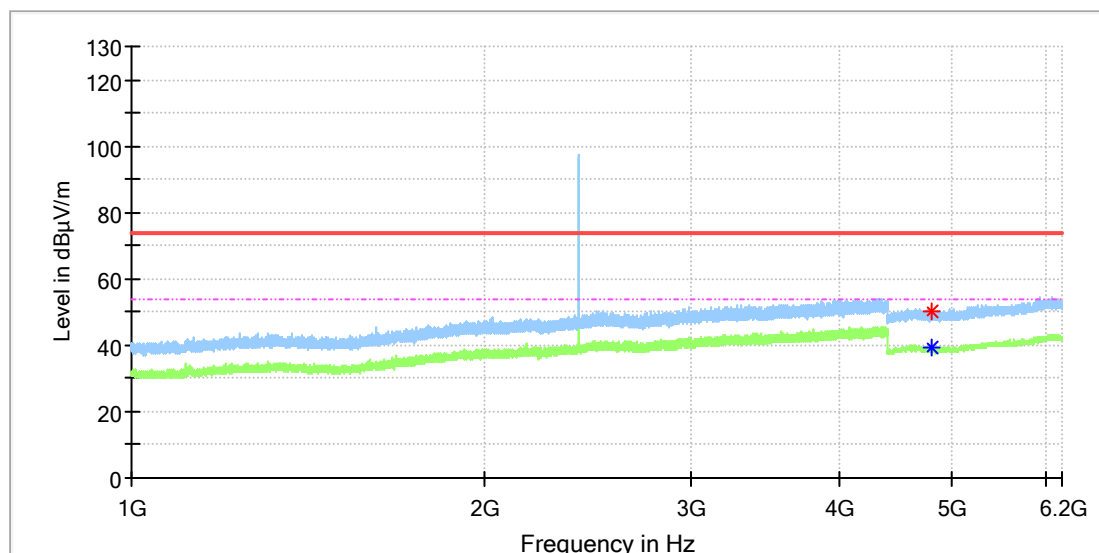
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.517500	23.05	40.00	16.95	100.0	V	245.0	-21.0
50.030500	25.36	40.00	14.64	100.0	V	264.0	-18.3
111.819500	14.73	43.50	28.77	100.0	V	271.0	-19.3
249.462500	17.05	46.00	28.95	100.0	V	251.0	-17.4
544.730500	23.34	46.00	22.66	100.0	V	43.0	-11.1
842.278000	29.52	46.00	16.48	100.0	V	240.0	-5.6

1GHz - 18GHz

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

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

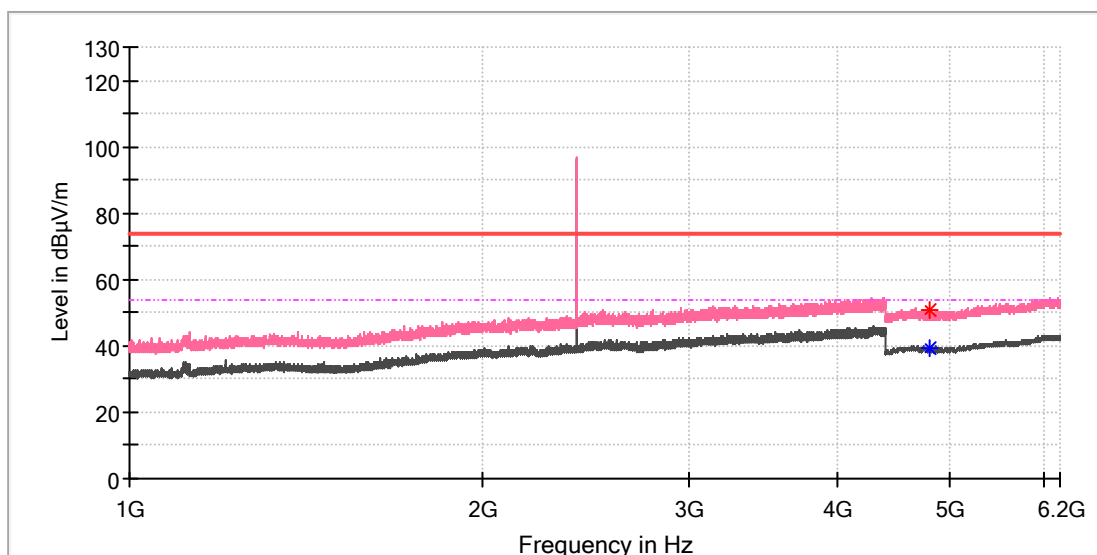


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4805.000000	---	39.27	54.00	14.73	150.0	H	159.0	11.8
4809.000000	50.33	---	74.00	23.67	150.0	H	262.0	11.8

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

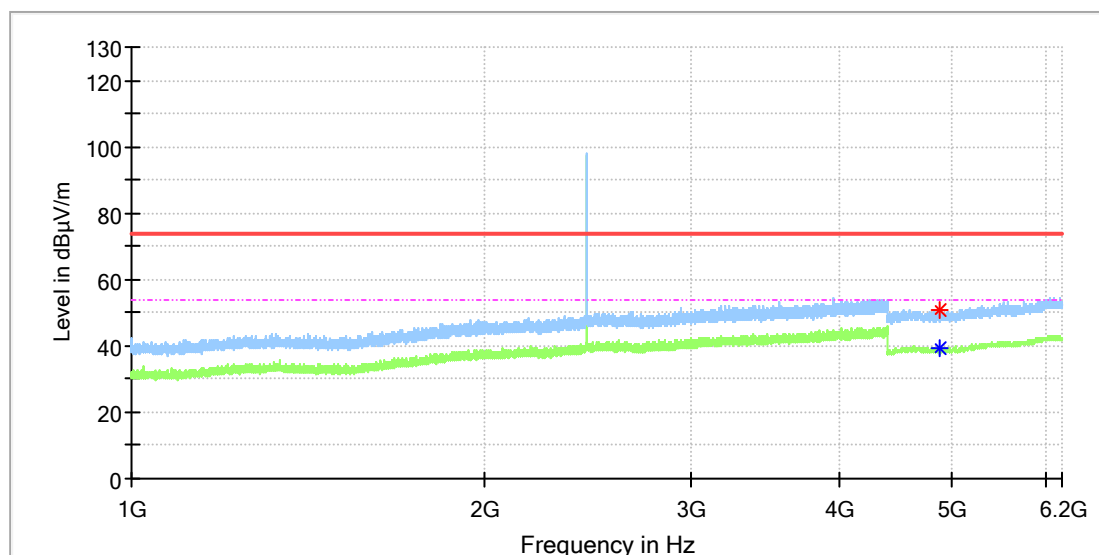


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4806.500000	---	39.48	54.00	14.52	150.0	V	190.0	11.8
4810.500000	50.68	---	74.00	23.32	150.0	V	316.0	11.8

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

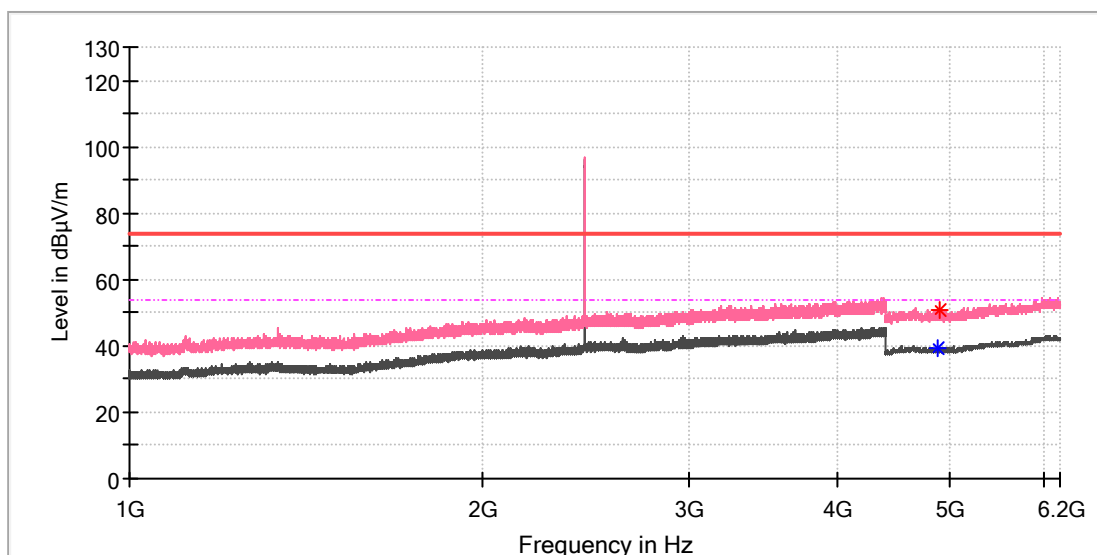


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4871.500000	50.85	---	74.00	23.15	150.0	H	133.0	11.8
4882.000000	---	39.07	54.00	14.93	150.0	H	211.0	11.8

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

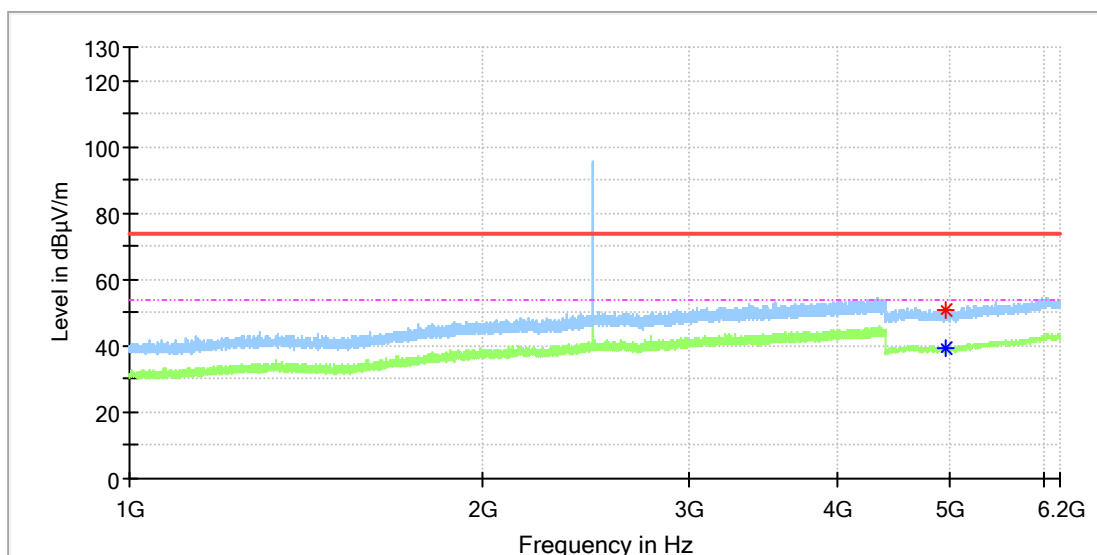


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	---	39.22	54.00	14.78	150.0	V	359.0	11.8
4903.000000	50.76	---	74.00	23.24	150.0	V	116.0	11.8

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

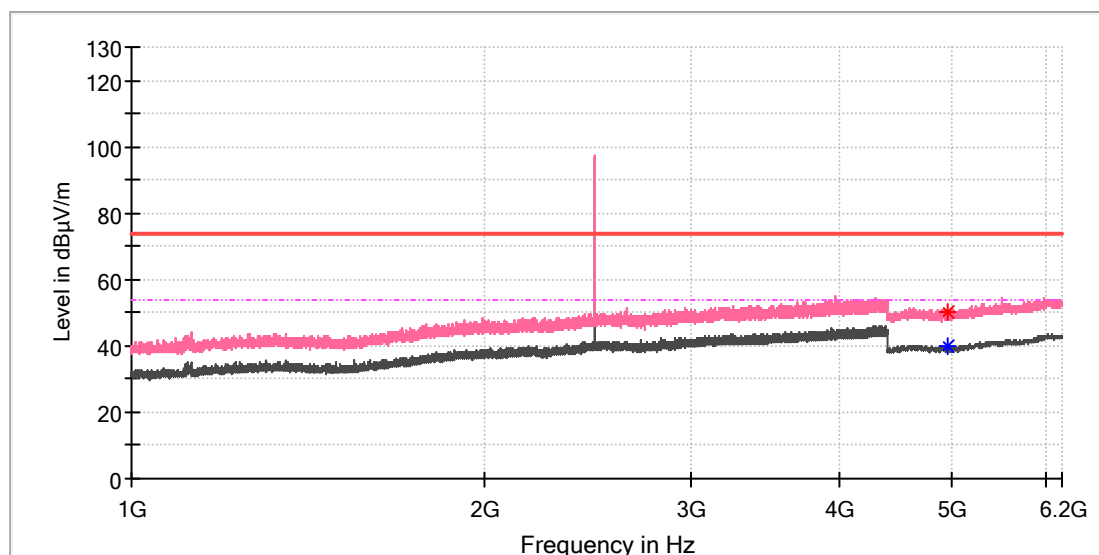


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	50.99	---	74.00	23.01	150.0	H	27.0	11.8
4964.000000	---	39.59	54.00	14.41	150.0	H	183.0	11.8

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

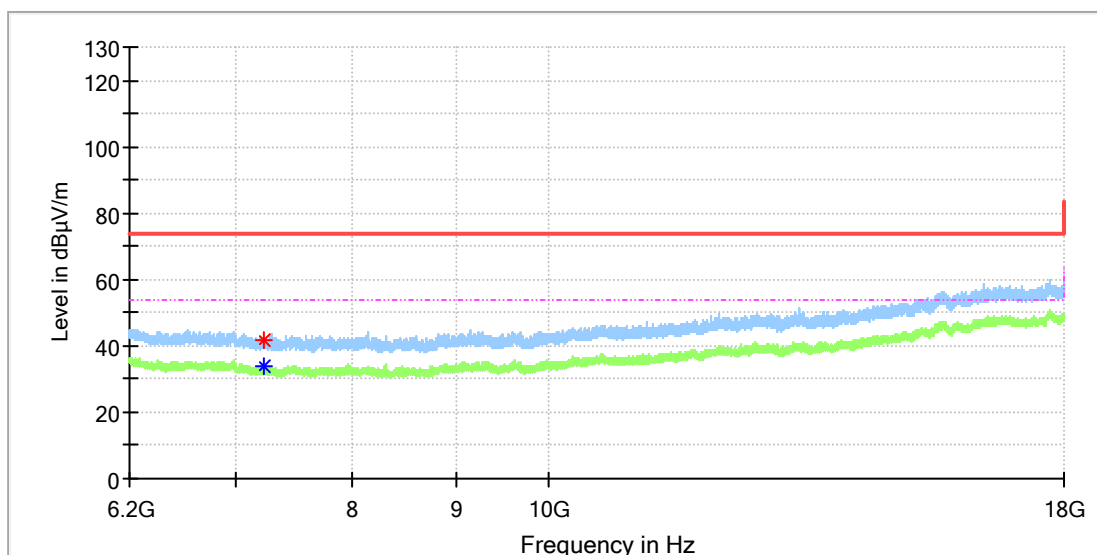


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4951.000000	50.49	---	74.00	23.51	150.0	V	64.0	11.8
4954.000000	---	39.89	54.00	14.11	150.0	V	12.0	11.8

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

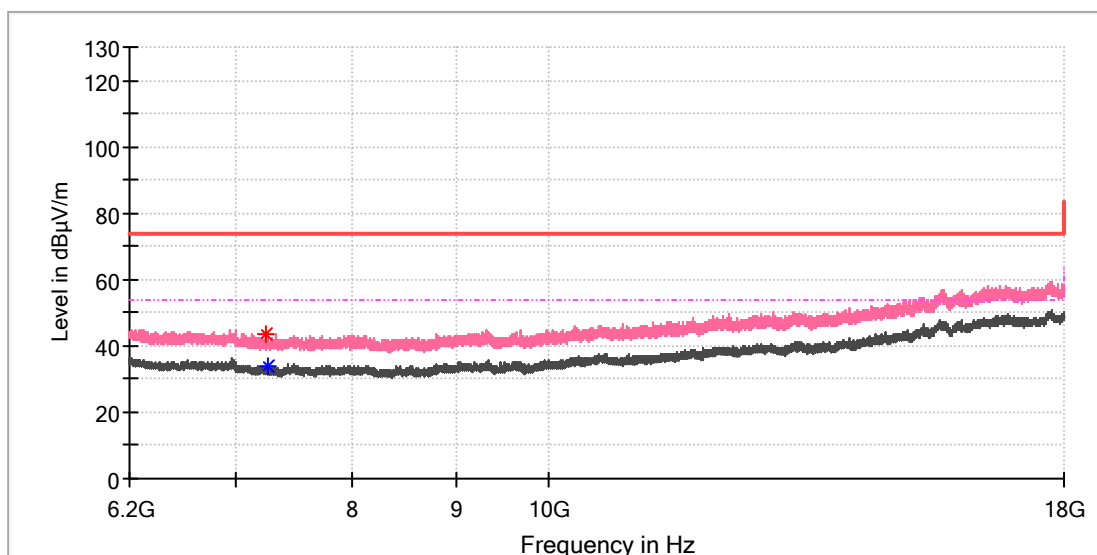


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7224.141667	---	33.96	54.00	20.04	150.0	H	0.0	8.7
7227.583333	41.99	---	74.00	32.01	150.0	H	207.0	8.7

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

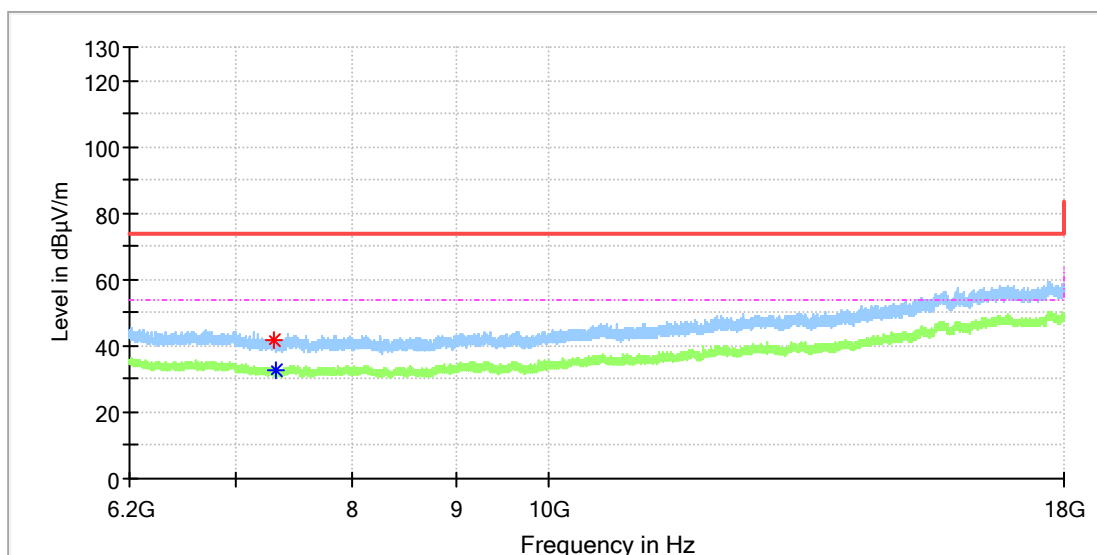


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7239.383333	43.60	---	74.00	30.40	150.0	V	90.0	8.6
7256.100000	---	34.02	54.00	19.98	150.0	V	54.0	8.5

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

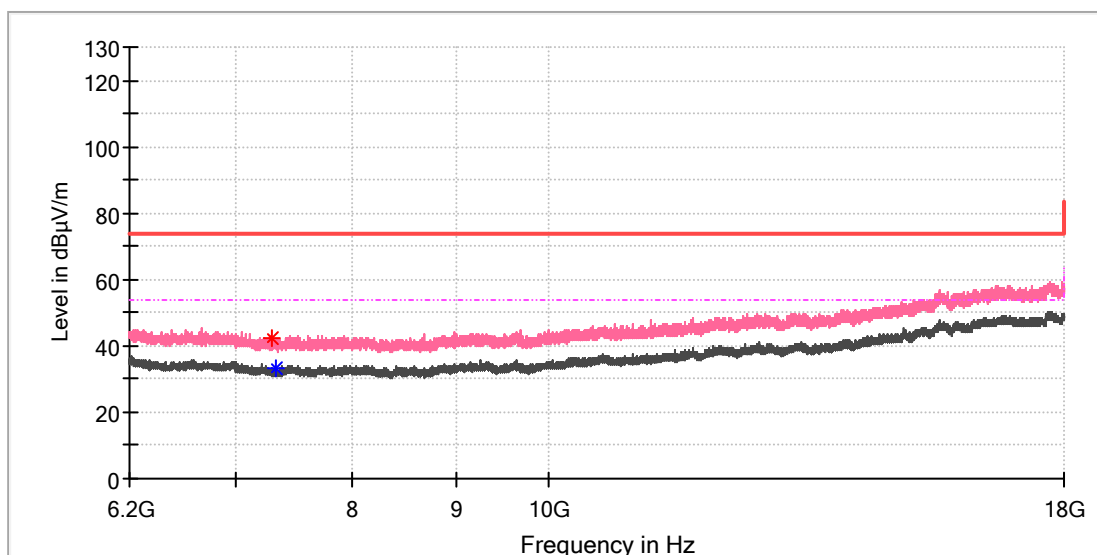


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7303.791667	41.95	---	74.00	32.05	150.0	H	0.0	8.3
7325.425000	---	32.87	54.00	21.13	150.0	H	169.0	8.2

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

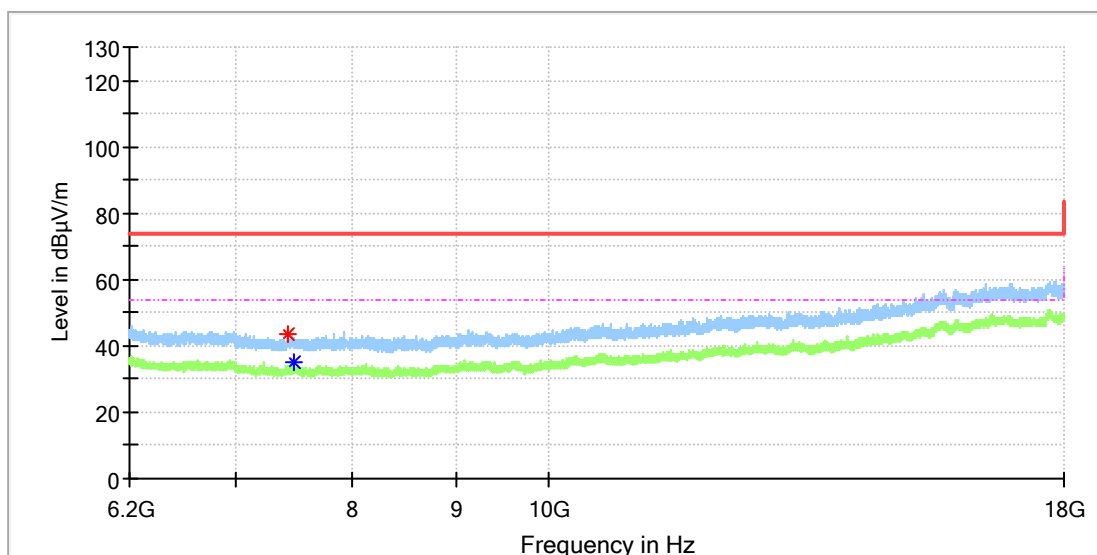


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7291.008333	42.42	---	74.00	31.58	150.0	V	147.0	8.3
7332.308333	---	33.15	54.00	20.85	150.0	V	147.0	8.1

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

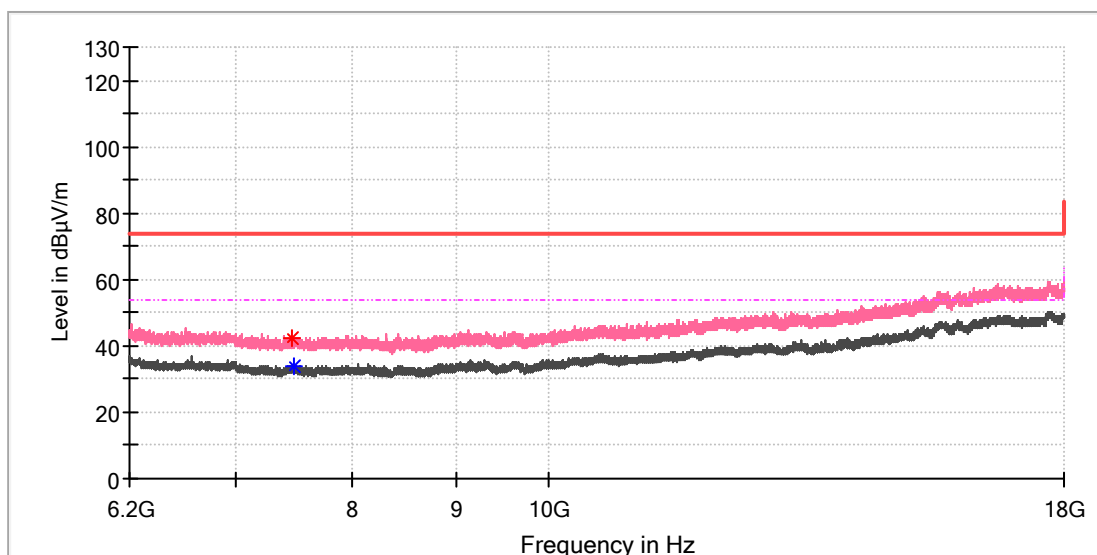


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7428.675000	43.25	---	74.00	30.75	150.0	H	272.0	8.4
7481.283333	---	34.92	54.00	19.08	150.0	H	54.0	8.7

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



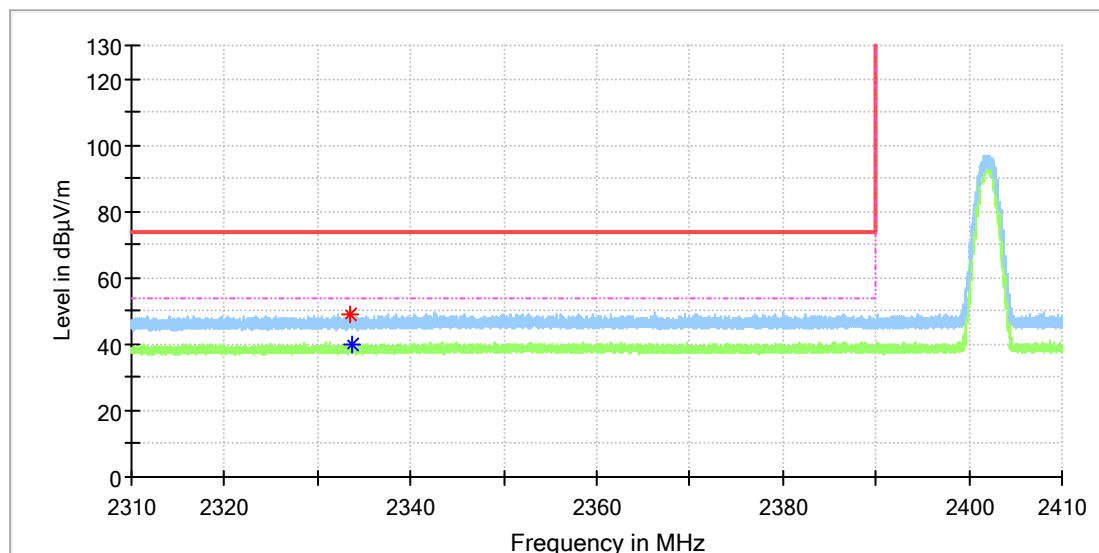
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7460.141667	42.59	---	74.00	31.41	150.0	V	340.0	8.5
7475.875000	---	34.11	54.00	19.89	150.0	V	231.0	8.6

Appendix B.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

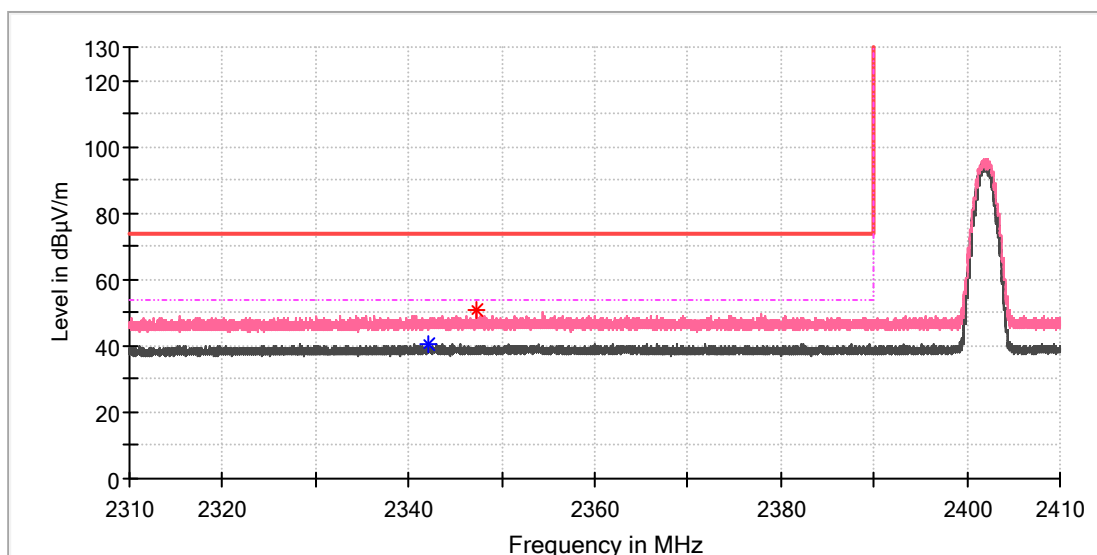


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2333.400000	48.97	---	74.00	25.03	150.0	H	211.0	6.7
2333.725000	---	40.01	54.00	13.99	150.0	H	116.0	6.7

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

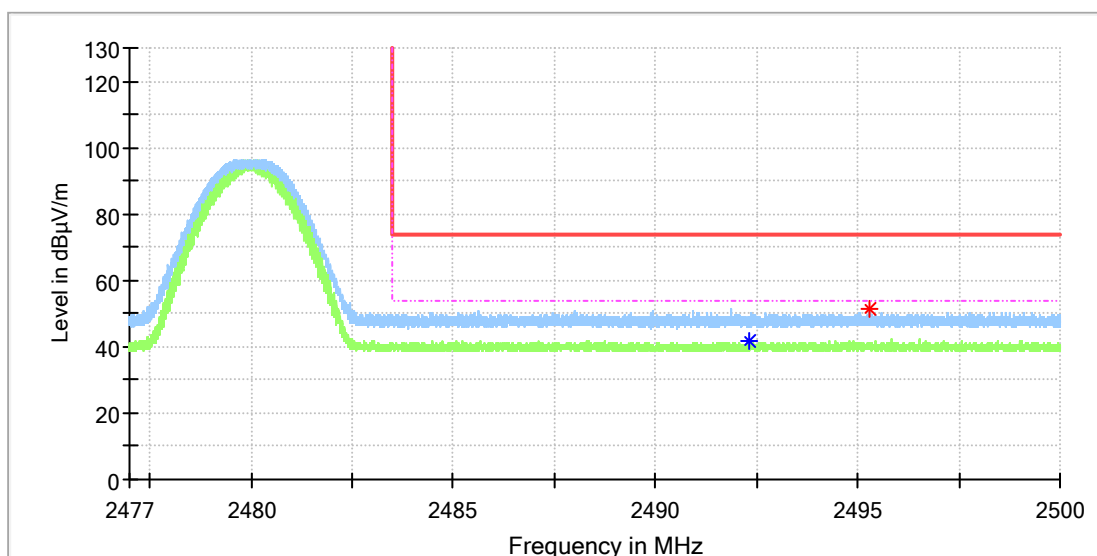


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2342.160000	---	40.49	54.00	13.51	150.0	V	196.0	6.8
2347.190000	50.66	---	74.00	23.34	150.0	V	180.0	6.9

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

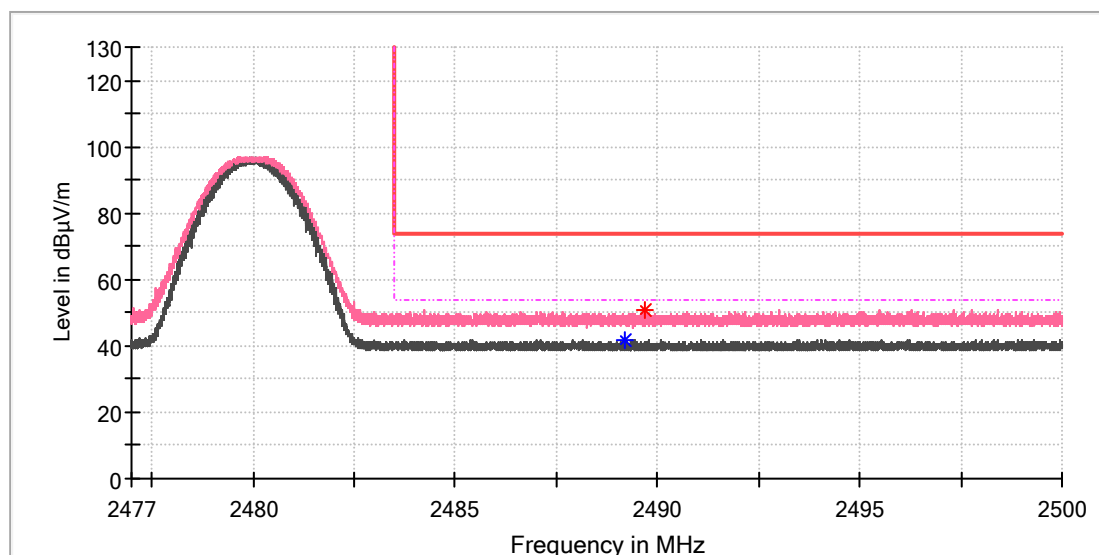


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2492.296150	---	42.00	54.00	12.00	150.0	H	276.0	7.4
2495.273500	51.40	---	74.00	22.60	150.0	H	91.0	7.4

EUT Information

EUT Name:	Wireless Noise Cancellation Over-Ear Headphones
Model:	EDF200126
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168429638/A003502949-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
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)
2489.179650	---	41.86	54.00	12.14	150.0	V	204.0	7.4
2489.701750	50.65	---	74.00	23.35	150.0	V	162.0	7.4