

Prüfbericht-Nr.: Test report no.:	CN25OLMM 001	Auftrags-Nr.: Order no.:	168550581	Page 1 of 24 Seite 1 von 24	
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-04-11		
Auftraggeber: Client:	Harman International Industries, Inc 8500 Balboa Blvd, Northridge, California, 91329, United States				
Prüfgegenstand: Test item:	BLUETOOTH HEADSET				
Bezeichnung / Typ-Nr.: Identification / Type no.:	SENSE PRO (Trademark: JBL)				
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 15.209		RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 February 2021		
Wareneingangsdatum: Date of sample receipt:	2025-04-27	Refer to photos document			
Prüfmuster-Nr.: Test sample no.:	A003981536				
Prüfzeitraum: Testing period:	2025-04-27 – 2025-05-22				
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 _____ Signed by: Harry W. C. Wu		genehmigt von: authorized by:	 X _____ Signed by: Alex Lan	
Datum: Date:	2025-06-23		Ausstellungsdatum: Issue date:	2025-06-23	
Stellung / Position:	Project Manager		Stellung / Position:	Authorizer	
Sonstiges / Other:	FCC ID: APIJBLSPRO IC: 6132A-JBLSPRO HVIN: SENSE PRO				
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
<p>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. 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.</p>					

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Remarks
Anmerkungen

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>
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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>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 99% BANDWIDTH

RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH

RESULT: Pass

5.1.5 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.6 20dB BANDWIDTH

RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION

RESULT: Pass

5.1.8 FREQUENCY STABILITY

RESULT: Pass

5.1.9 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.10 TIME OF OCCUPANCY

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: Photographs of the Test Set-up

Appendix B: Test Results of Classic Bluetooth (Left earbud).

Appendix C: Test Results of Classic Bluetooth (Right earbud).

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

FCC Registration No.: CN1260

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

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	25.09.2025
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	25.09.2025
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	25.09.2025
DC Power Supply	Keysight	E3642A	MY61276100	25.09.2025
Wireless Connectivity Tester	R&S	CMW270	102505	25.09.2025
Power Control Unit	Tonscend	JS0806-4ADC	N/A	25.09.2025
Automation Control Unit	Tonscend	JS0806-2	21C8060396	25.09.2025
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	24.02.2026
Cable 1	Calibration frequency range: 9 kHz~1.0 GHz			20.12.2025
Cable 2	Calibration frequency range: 9 kHz~18 GHz			20.12.2025
Cable 3	Calibration frequency range: 1 GHz~40 GHz			20.12.2025
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	Y LX23JMF	N/A
Unwanted Emission Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	28.09.2025
Signal Analyzer	R&S	FSV 40	101439	28.09.2025
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	28.09.2025
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	28.09.2025
Amplifier	R&S	SCU-18F	180070	28.09.2025
Amplifier	R&S	SCU40A	100475	28.09.2025
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	27.09.2026
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	27.09.2026
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.09.2026
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	27.09.2026
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	13.09.2027
Above 1G cable #1 i	Calibration frequency range: 9 kHz~6 GHz			20.12.2025
Above 1G cable #2	Calibration frequency range: 1 GHz~18 GHz			20.12.2025
Antenna-Preamplifier 40GHz cable	Calibration frequency range: 1 GHz~40 GHz			20.12.2025

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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 & C 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 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 EUT is a Bluetooth headset, which consist of a left earbud, a right earbud and a charging case, the left & right earbuds supports Bluetooth dual mode technology.

The left earbud is differences with right earbud in PCB layout and antenna.

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

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	BLUETOOTH HEADSET
Type Designation	SENSE PRO
Trademark	JBL
FCC ID	APIJBLSPRO
IC	6132A-JBLSPRO
HVIN	SENSE PRO
Extreme Temperature Range	0°C to +45°C
Operating Voltage	For charging case: Input: DC 5V, 1A via Type C interface or DC 3.87V, 630mAh, 2.44Wh via built-in Li-ion battery Output: DC 5V, 200mA * 2 For left & right earbuds: DC 3.87V, 60mAh, 0.24Wh via built-in lithium-ion battery DC 5V, 0.2A*2 via charging case
Technical Specification of Classic Bluetooth	
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	FPC antenna
Antenna Gain	0.6 dBi for left and right earbud (Provided by the Client)
Technical Specification of Bluetooth Low Energy	
Operating Frequency band	2402 – 2480 MHz
Channel Number	40 channels
Channel separation	2MHz
Data rate	1Mbps, 2Mbps
Modulation	GFSK
Antenna Type	FPC antenna
Antenna Gain	0.6 dBi for left and right earbud (Provided by the Client)

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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
 - 1. Bluetooth transmitting mode (BR & EDR mode)
 - a) Low Channel
 - b) Middle Channel
 - c) High Channel
- B. On, Transmitting on Hopping channel
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- Schematics
- Technical Description
- FCC/IC Label and Location Info
- Photo Document
- User Manual

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.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N or Rating
Laptop	Lenovo	T480	PF-16A6N8
AC/DC Adapter	SAMSUNG	EP-T6530	Input: 100-240V, 50/60Hz, 1.7A Output: DC 5V, 3A

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)

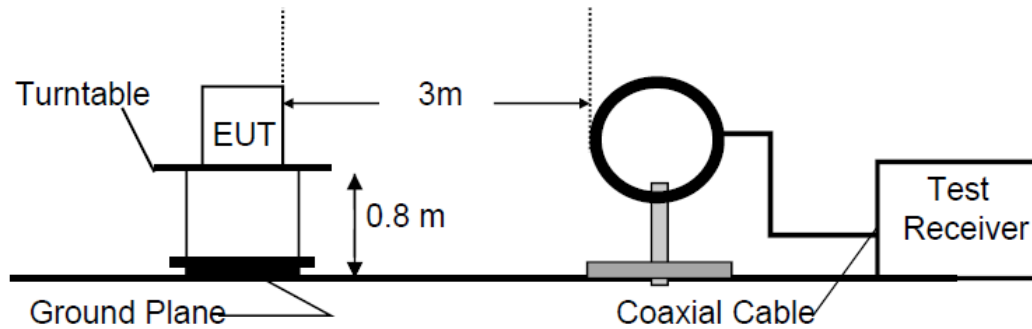


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

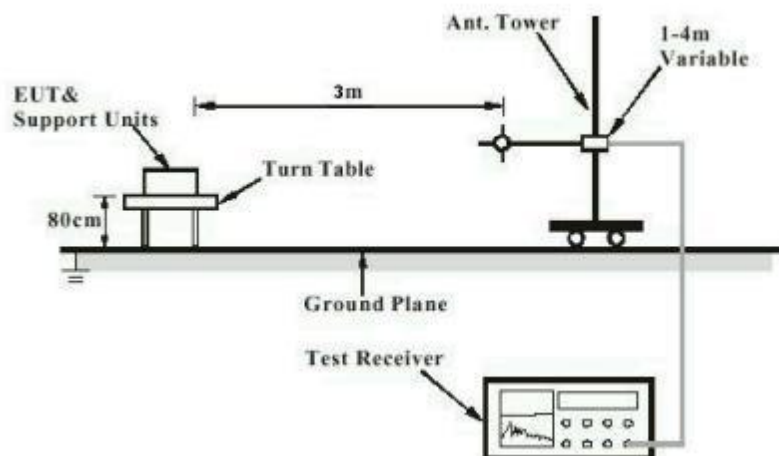
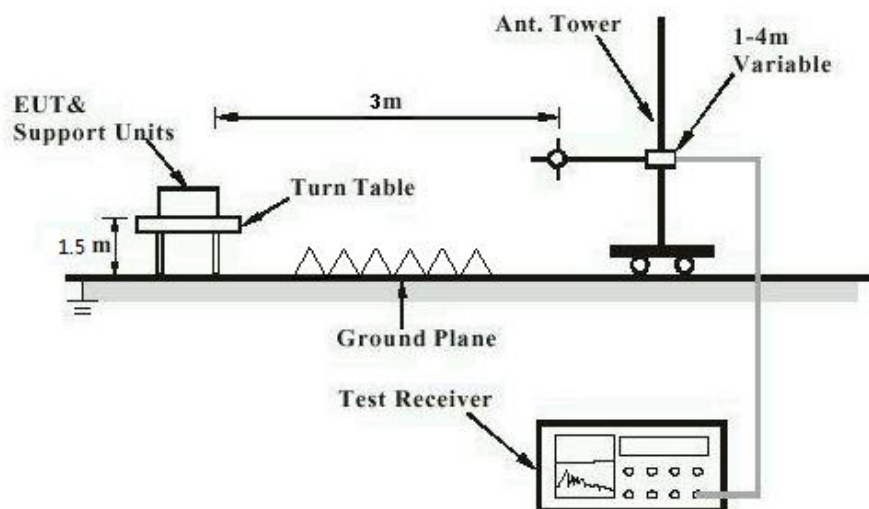


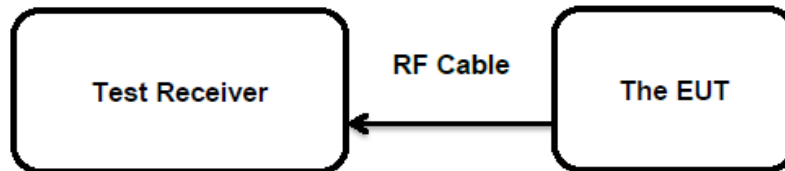
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



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Diagram of Measurement Configuration for Conducted Transmitter Measurement



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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 8.3

According to the manufacturer declared, the EUT has one FPC antenna, the directional gain of antennas is 0.6 dBi for left earbud & right earbud, 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 Conducted Output Power

RESULT:
Pass
Test Specification

Test standard	FCC Part 15.247(b)(1) RSS-247 Clause 5.4(b)
Basic standard	ANSI C63.10: 2013
Limits	FHSS<0.125W(Maximum peak conducted output power) < 4 W (e.i.r.p.)
Kind of test site	Shielded Room

Test Setup

Date of testing	2025-04-27 to 2025-05-22
Input voltage	DC 3.87V
Operation mode	A.1
Test channel	Low / Middle / High
Ambient temperature	24.8 °C
Relative humidity	55 %
Atmospheric pressure	101 kPa

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

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BR	2402	8.25	0.00668	< 0.125
	2441	8.07	0.00641	
	2480	7.31	0.00538	
EDR	2402	8.23	0.00665	
	2441	8.03	0.00635	
	2480	7.22	0.00527	
Maximum Measured Value		8.25	0.00668	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 8.85dBm less than 4W(36dBm).

Table 7: Test Result of Maximum Conducted Output Power, Right earbud

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BR	2402	6.22	0.00419	< 0.125
	2441	5.91	0.00390	
	2480	5.18	0.00330	
EDR	2402	6.12	0.00409	
	2441	5.84	0.00384	
	2480	5.18	0.00330	
Maximum Measured Value		6.22	0.00419	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 6.82dBm less than 4W(36dBm).

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5.1.3 99% 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 : 2025-04-27 to 2025-05-22
 Input voltage : DC 3.87V
 Operation mode : A.1
 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

Table 8: Test Result of 99% Bandwidth, Left earbud

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
BR	2402	0.87800	/
	2441	0.86943	
	2480	0.91323	
EDR	2402	1.1662	/
	2441	1.1646	
	2480	1.1630	

Table 9: Test Result of 99% Bandwidth, Right earbud

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
BR	2402	0.89959	/
	2441	0.86224	
	2480	0.89213	
EDR	2402	1.1646	/
	2441	1.1620	
	2480	1.1635	

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

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5.1.4 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);

Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-04-27 to 2025-05-22

Input voltage : DC 3.87V

Operation mode : A.1

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 following test plot, and compliance is achieved as well.

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

Prüfbericht-Nr.: CN25OLMM 001
Test report no.:Seite 18 von 24
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5.1.5 Radiated Spurious Emission

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

Test standard : FCC Part 15.247(d) & FCC Part 15.205
RSS-247 Clause 3.3

Basic standard : ANSI C63.10: 2013

Limits : Refer to 15.209(a) of FCC part 15.247(d)
RSS-Gen Table 6 & Table 7

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2025-04-27 to 2025-05-22

Input voltage : DC 3.87V

Operation mode : A.1

Test channel : Low / Middle / High

Ambient temperature : Refer to test result

Relative humidity : Refer to test result

Atmospheric pressure : 101 kPa

Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

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

Prüfbericht-Nr.: CN25OLMM 001
Test report no.:

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5.1.7 Carrier Frequency Separation

RESULT: **Pass**
Test Specification

Test standard : FCC Part 15.247(a)(1)
RSS-247 Clause 5.1(b)

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 : 2025-04-27 to 2025-05-22

Input voltage : DC 3.87V

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

Table 12: Test Result of Carrier Frequency Separation, Left earbud

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.11	≥ 0.912	PASS
3DH5	Ant1	Hop	1.08	≥ 0.828	PASS

Table 13: Test Result of Carrier Frequency Separation, Right earbud

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.07	≥ 0.987	PASS
3DH5	Ant1	Hop	0.994	≥ 0.816	PASS

Prüfbericht-Nr.: CN25OLMM 001
Test report no.:Seite 21 von 24
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5.1.8 Frequency stability

RESULT:

Pass

Test Specification

Test standard : RSS-247 Clause 8.11
Basic standard : ANSI C63.10: 2013
Limits : within at least the central 80% of its permitted operating frequency band (2400-2483.5MHz)
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-04-27 to 2025-05-22
Input voltage : DC 3.87V
Operation mode : B
Ambient temperature : 24.8 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

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

Prüfbericht-Nr.: CN25OLMM 001
Test report no.:

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5.1.9 Number of Hopping Frequency

RESULT: **Pass**
Test Specification

Test standard : FCC part 15.247(a)(1)(iii)
 : RSS-247 Clause 5.1(d)
 Basic standard : ANSI C63.10: 2013
 Limits : ≥ 15 non-overlapping channels
 Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-04-27 to 2025-05-22
 Input voltage : DC 3.87V
 Operation mode : B
 Ambient temperature : 24.8 °C
 Relative humidity : 55 %
 Atmospheric pressure : 101 kPa

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

Table 14: Test Result of Number of Hopping Frequency, Left earbud

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

Table 15: Test Result of Number of Hopping Frequency, Right earbud

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

Prüfbericht-Nr.: **CN25OLMM 001**
Test report no.:Seite 23 von 24
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5.1.10 Time of Occupancy

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

Test standard : FCC part 15.247(a)(1)(iii)
RSS-247 Clause 5.1(d)

Basic standard : ANSI C63.10: 2013

Limits : < 0.4s

Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-04-27 to 2025-05-22

Input voltage : DC 3.87V

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.

6 Photographs of the Test Set-Up

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

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Appendix B: Test Results of Classical Bluetooth (Left earbud)

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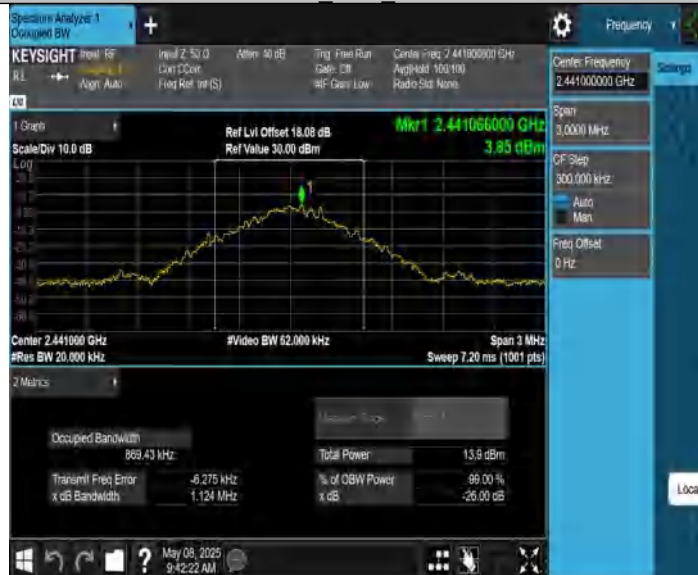
Appendix B.1: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87800	2401.5610	2402.4390	---	---
		2441	0.86943	2440.5590	2441.4284	---	---
		2480	0.91323	2479.5551	2480.4684	---	---
3DH5	Ant1	2402	1.1662	2401.4183	2402.5845	---	---
		2441	1.1646	2440.4216	2441.5862	---	---
		2480	1.1630	2479.4235	2480.5865	---	---

DH5 Ant1 2402



DH5 Ant1 2441



DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441





Appendix B.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.858	2401.553	2402.411	---	---
		2441	0.888	2440.523	2441.411	---	---
		2480	0.912	2479.499	2480.411	---	---
3DH5	Ant1	2402	1.242	2401.370	2402.612	---	---
		2441	1.167	2440.433	2441.600	---	---
		2480	1.182	2479.424	2480.606	---	---

DH5 Ant1 2402



DH5 Ant1 2441



DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441





Appendix B.3: Test Results of Frequency stability

Test Channel (MHz)	2402
--------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.87V	2401.989	-11	-4.58	10
DC 3.483V	2401.986	-14	-5.83	
DC 4.257V	2401.988	-12	-5.00	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2401.986	-14	-5.83	10
-20	2401.987	-13	-5.41	
-10	2401.987	-13	-5.41	
0	2401.989	-11	-4.58	
10	2401.990	-10	-4.16	
20	2401.988	-12	-5.00	
30	2401.986	-14	-5.83	
40	2401.987	-13	-5.41	
50	2401.985	-15	-6.24	
55	2401.984	-16	-6.66	

Test Channel (MHz)	2441
--------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.87V	2440.987	-13	-5.33	10
DC 3.483V	2440.985	-15	-6.15	
DC 4.257V	2440.990	-10	-4.10	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2440.993	-7	-2.87	10
-20	2440.994	-6	-2.46	
-10	2440.995	-5	-2.05	
0	2440.993	-7	-2.87	
10	2440.994	-6	-2.46	
20	2440.996	-4	-1.64	
30	2440.996	-4	-1.64	
40	2440.992	-8	-3.28	
50	2440.996	-4	-1.64	
55	2440.995	-5	-2.05	

Test Channel (MHz)	2480
--------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.87V	2479.987	-13	-5.24	10
DC 3.483V	2479.985	-15	-6.05	
DC 4.257V	2479.987	-13	-5.24	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2479.985	-15	-6.05	10
-20	2479.985	-15	-6.05	
-10	2479.983	-17	-6.85	
0	2479.984	-16	-6.45	
10	2479.983	-17	-6.85	
20	2479.989	-11	-4.44	
30	2479.992	-8	-3.23	
40	2479.991	-9	-3.63	
50	2479.993	-7	-2.82	
55	2479.993	-7	-2.82	

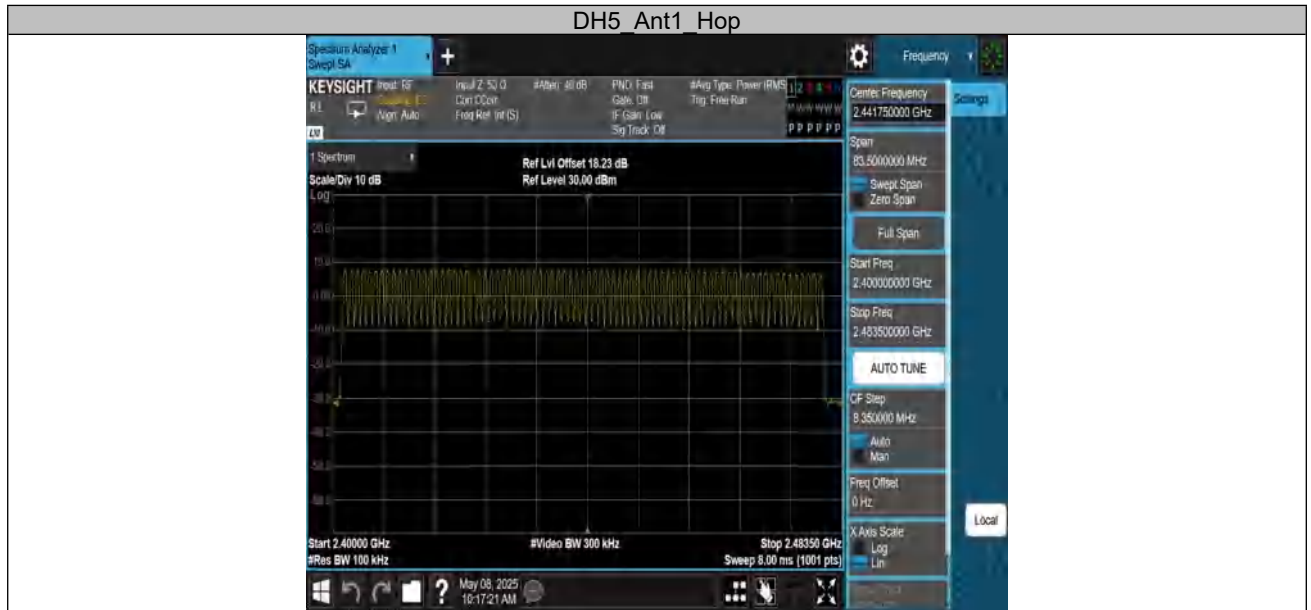
Appendix B.4: Test Results of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.11	≥0.912	PASS
3DH5	Ant1	Hop	1.08	≥0.828	PASS



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

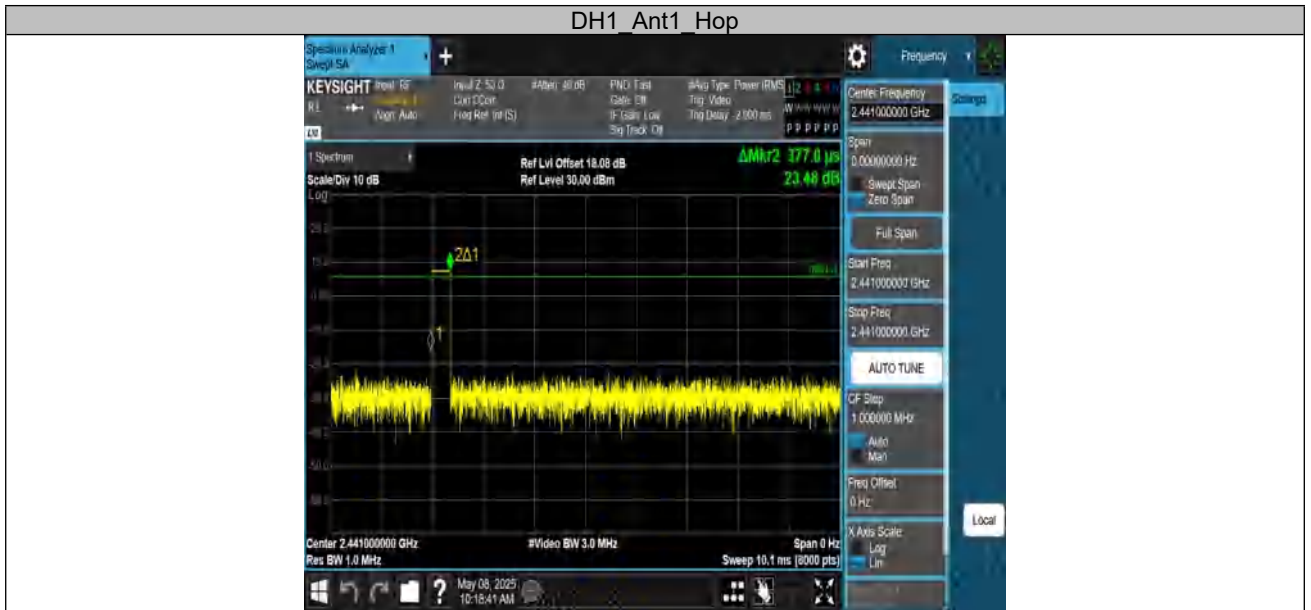
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



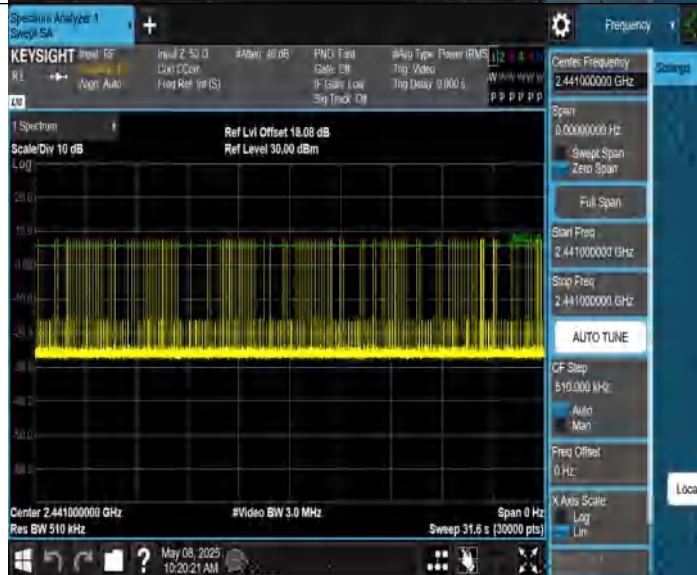
Appendix B.6: Test Results of Time of Occupancy

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.377	169	0.064	≤0.4	PASS
DH3	Ant1	Hop	1.633	109	0.178	≤0.4	PASS
DH5	Ant1	Hop	2.880	89	0.256	≤0.4	PASS
3DH1	Ant1	Hop	0.386	149	0.058	≤0.4	PASS
3DH3	Ant1	Hop	1.637	101	0.165	≤0.4	PASS
3DH5	Ant1	Hop	2.888	81	0.234	≤0.4	PASS

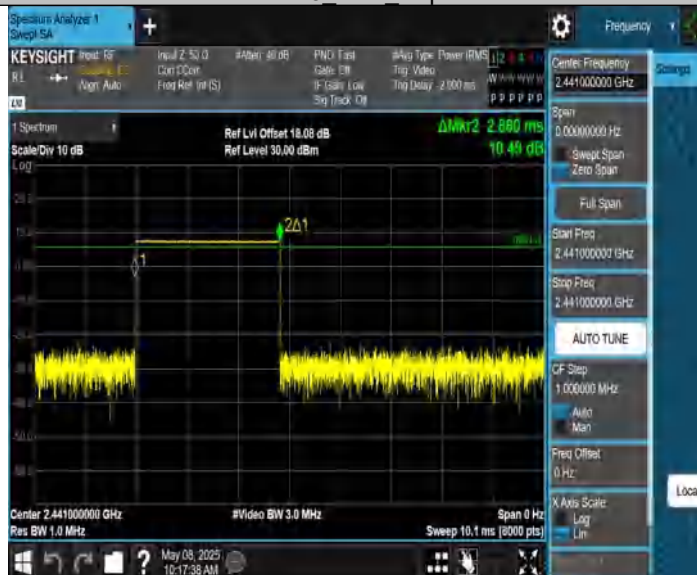
DH1 Ant1 Hop



DH3 Ant1 Hop

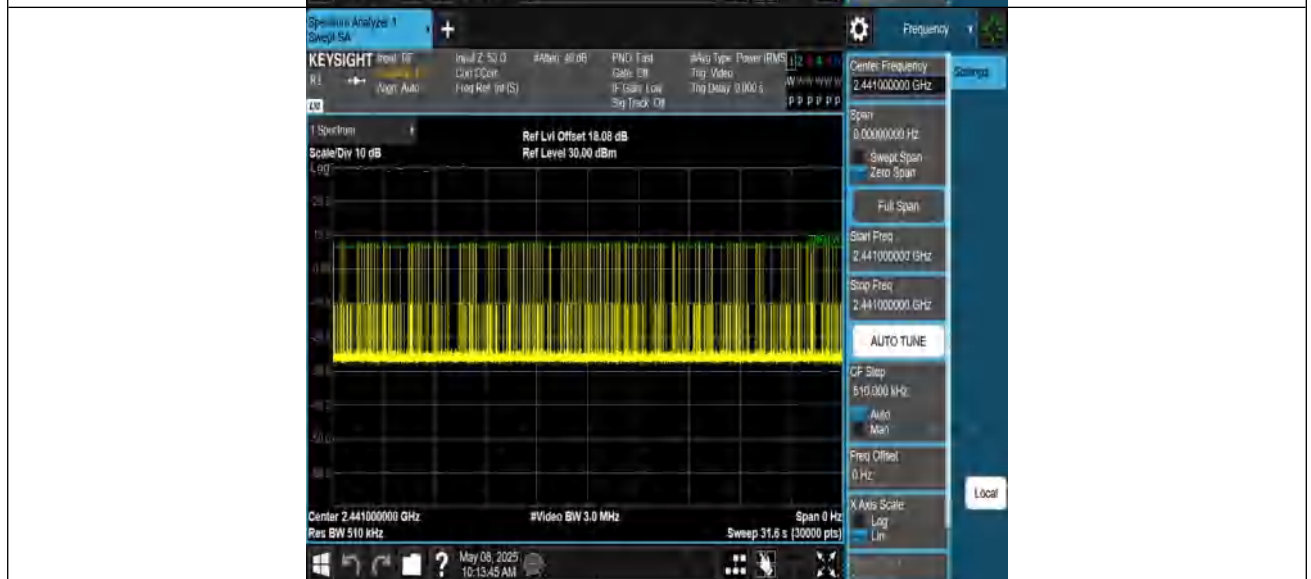
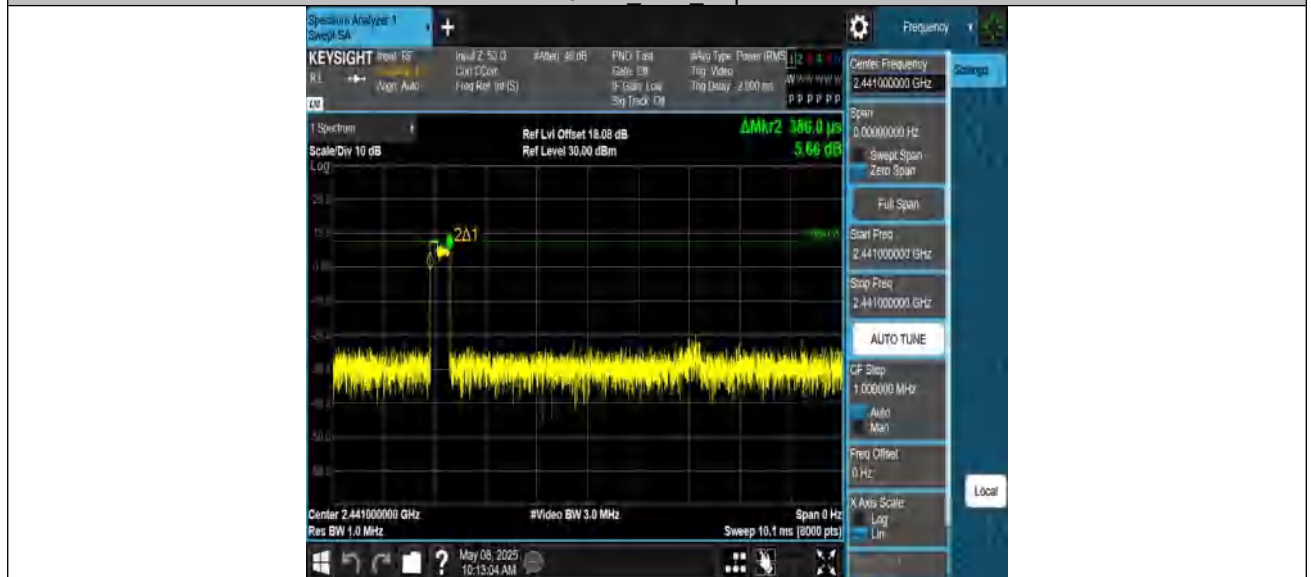


DH5 Ant1 Hop

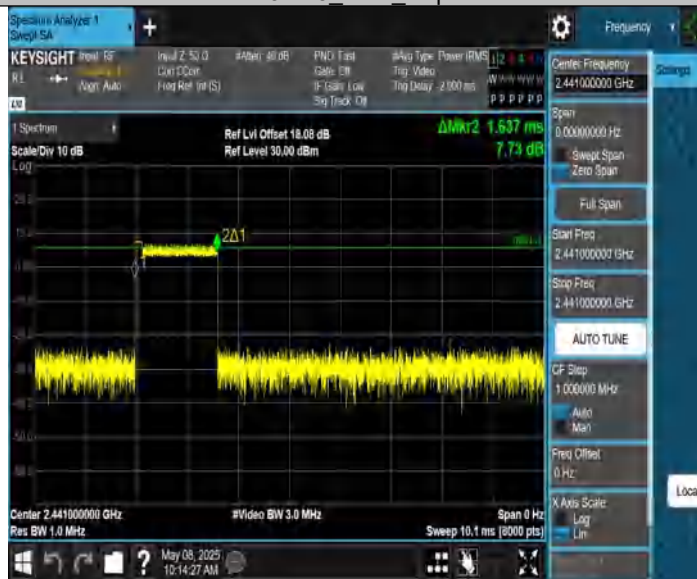




3DH1 Ant1 Hop



3DH3 Ant1 Hop



3DH5 Ant1 Hop





Appendix B.7: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	6.87	6.87	---	PASS
			30~1000	6.87	-42.1	≤-13.13	PASS
			1000~26500	6.87	-32.76	≤-13.13	PASS
		2441	Reference	6.77	6.77	---	PASS
			30~1000	6.77	-42.4	≤-13.23	PASS
			1000~26500	6.77	-32.86	≤-13.23	PASS
		2480	Reference	6.05	6.05	---	PASS
			30~1000	6.05	-42.46	≤-13.95	PASS
			1000~26500	6.05	-32.65	≤-13.95	PASS
3DH5	Ant1	2402	Reference	4.51	4.51	---	PASS
			30~1000	4.51	-42.05	≤-15.49	PASS
			1000~26500	4.51	-32.58	≤-15.49	PASS
		2441	Reference	7.33	7.33	---	PASS
			30~1000	7.33	-40.9	≤-12.67	PASS
			1000~26500	7.33	-32.33	≤-12.67	PASS
		2480	Reference	1.16	1.16	---	PASS
			30~1000	1.16	-42.28	≤-18.84	PASS
			1000~26500	1.16	-32.53	≤-18.84	PASS

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



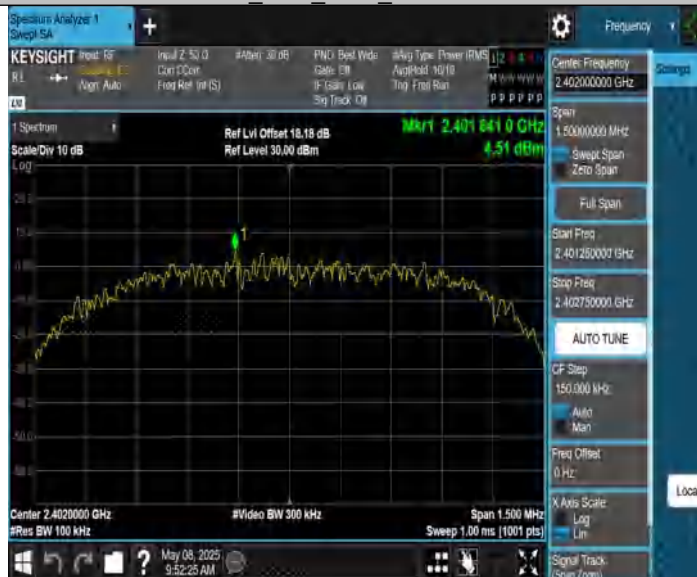
DH5_Ant1_2480_30~1000



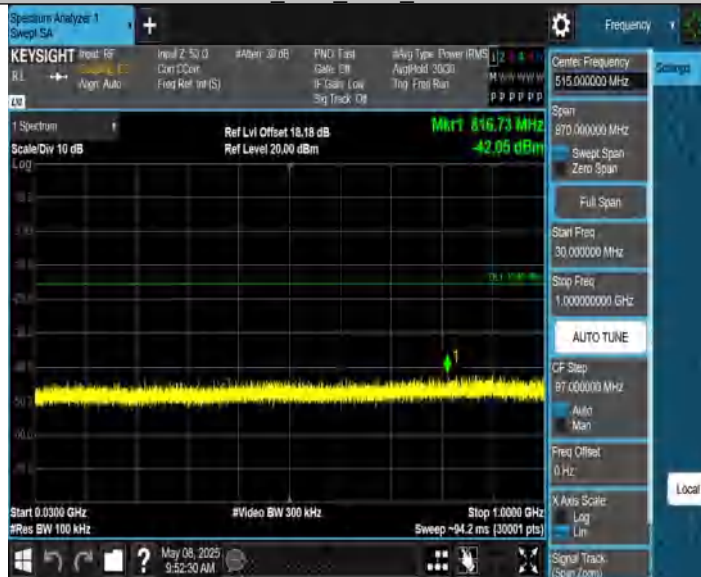
DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



Band edge measurements.

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	7.59	-43.28	≤-12.41	PASS
		High	2480	6.55	-43.03	≤-13.45	PASS
3DH5	Ant1	Low	2402	7.91	-42.48	≤-12.09	PASS
		High	2480	6.77	-43.84	≤-13.23	PASS
DH5	Ant1	Hopping	2402	7.53	-44.44	≤-12.47	PASS
		Hopping	2480	6.00	-44.34	≤-14.00	PASS
3DH5	Ant1	Hopping	2402	7.77	-43.35	≤-12.23	PASS
		Hopping	2480	1.21	-43.12	≤-18.79	PASS

DH5 Ant1 Low 2402



DH5 Ant1 High 2480



3DH5 Ant1 Low 2402



3DH5 Ant1 High 2480



DH5 Ant1 Hopping 2402



DH5 Ant1 Hopping 2480



3DH5 Ant1 Hopping 2402



3DH5 Ant1 Hopping 2480



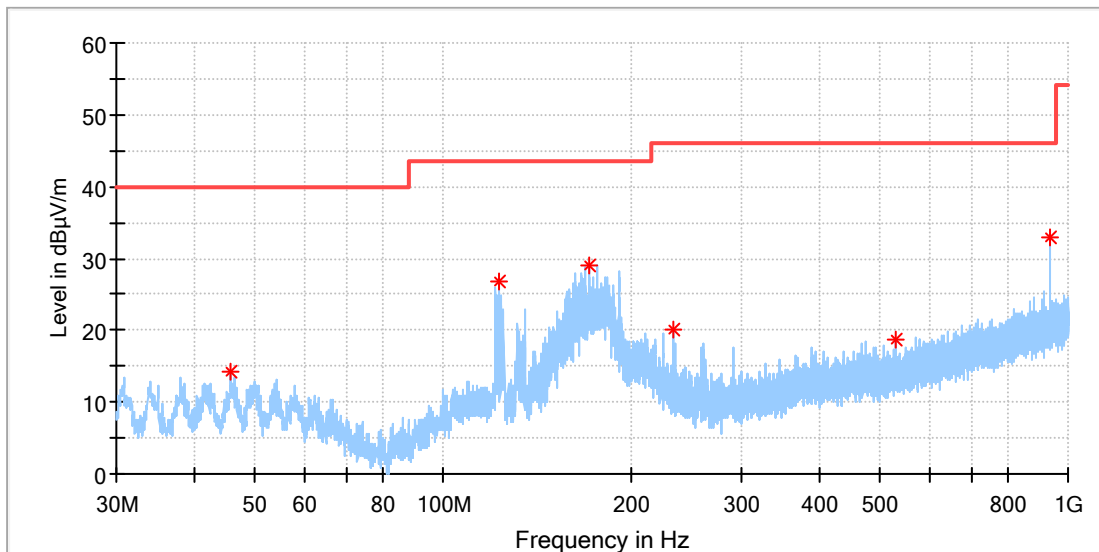
Appendix B.8: Test Results of Radiated Spurious Emissions

Note: 1. 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. 2. This testing was carried out on different modulations, but only the worst case (GFSK) was presented in this report.

30MHz - 1GHz

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

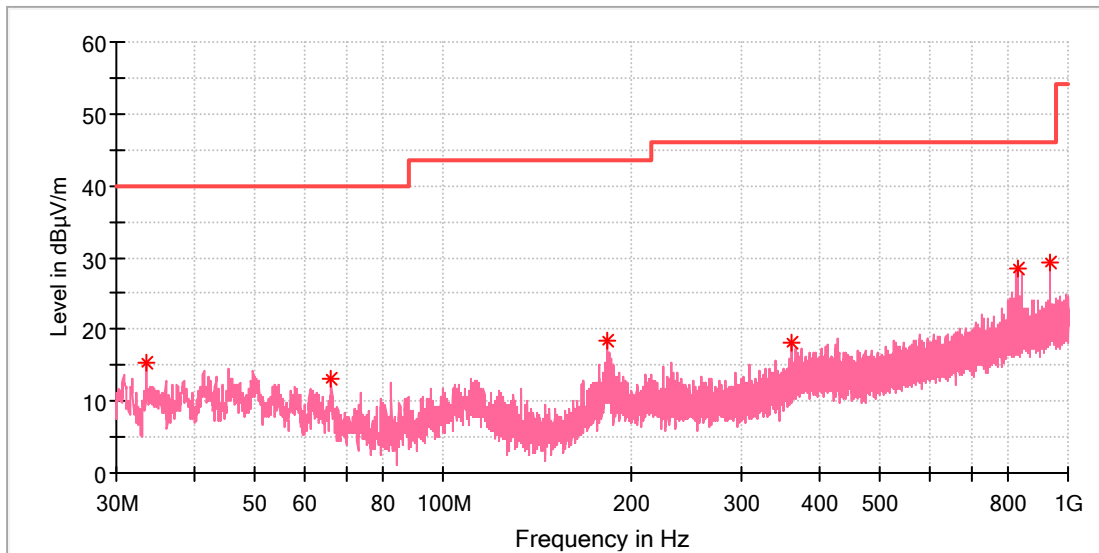


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.669231	14.24	40.00	25.76	100.0	H	331.0	-18.8
122.746923	26.82	43.50	16.68	100.0	H	312.0	-21.2
171.396154	28.99	43.50	14.51	100.0	H	208.0	-21.3
232.991154	20.01	46.00	25.99	100.0	H	50.0	-18.0
528.095000	18.83	46.00	27.17	100.0	H	350.0	-11.3
937.546923	32.86	46.00	13.14	100.0	H	220.0	-4.4

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage:::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

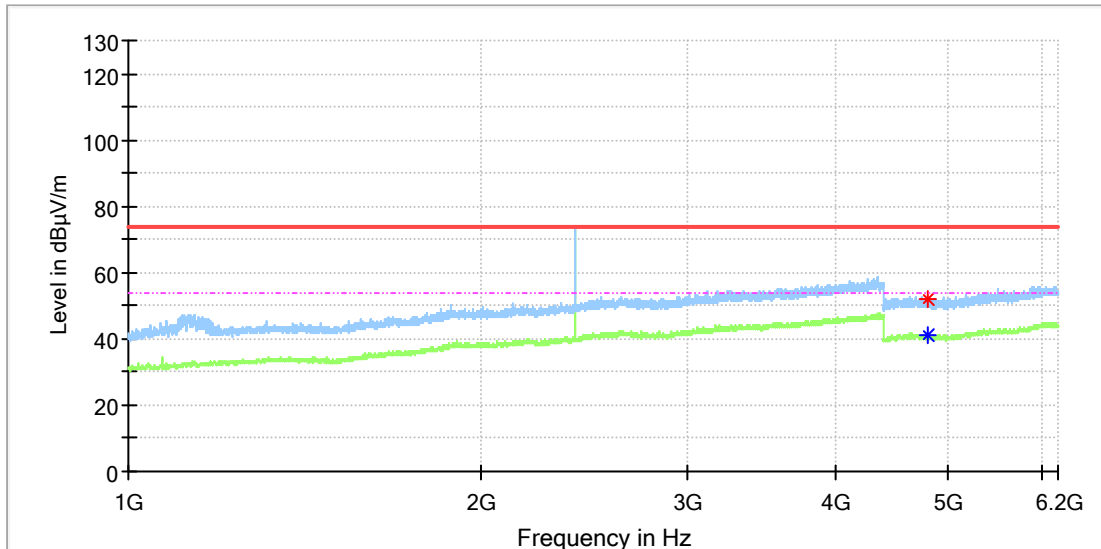
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.469615	15.27	40.00	24.73	100.0	V	311.0	-22.4
66.300385	13.10	40.00	26.90	100.0	V	0.0	-20.7
183.185385	18.32	43.50	25.18	100.0	V	331.0	-20.3
360.956539	18.02	46.00	27.98	100.0	V	6.0	-14.6
832.898846	28.60	46.00	17.40	100.0	V	126.0	-5.6
937.546923	29.35	46.00	16.65	100.0	V	349.0	-4.4

1GHz - 18GHz

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

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

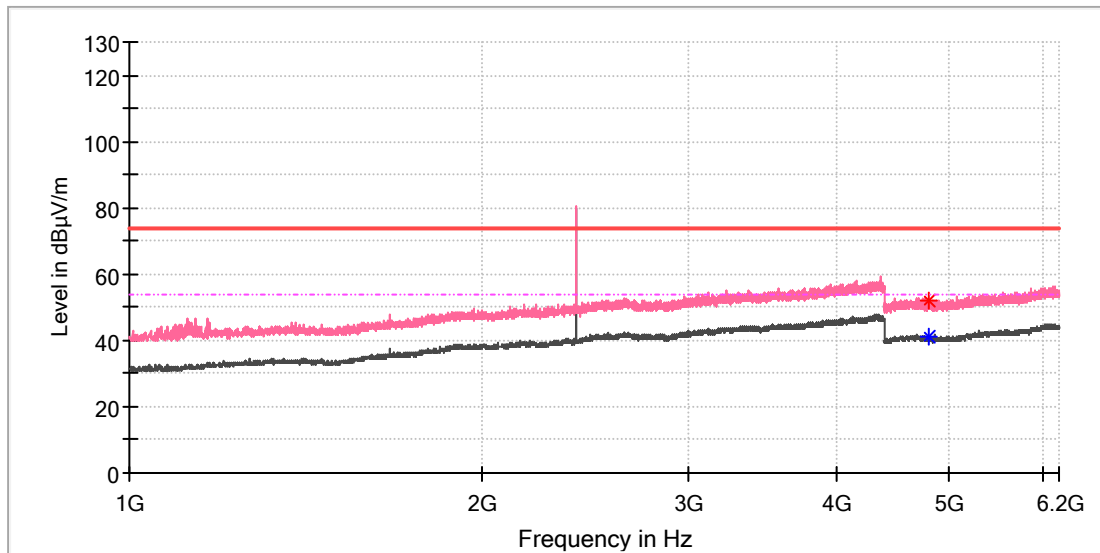


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.000000	---	41.05	54.00	12.95	150.0	H	294.0	13.3
4809.500000	51.74	---	74.00	22.26	150.0	H	301.0	13.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

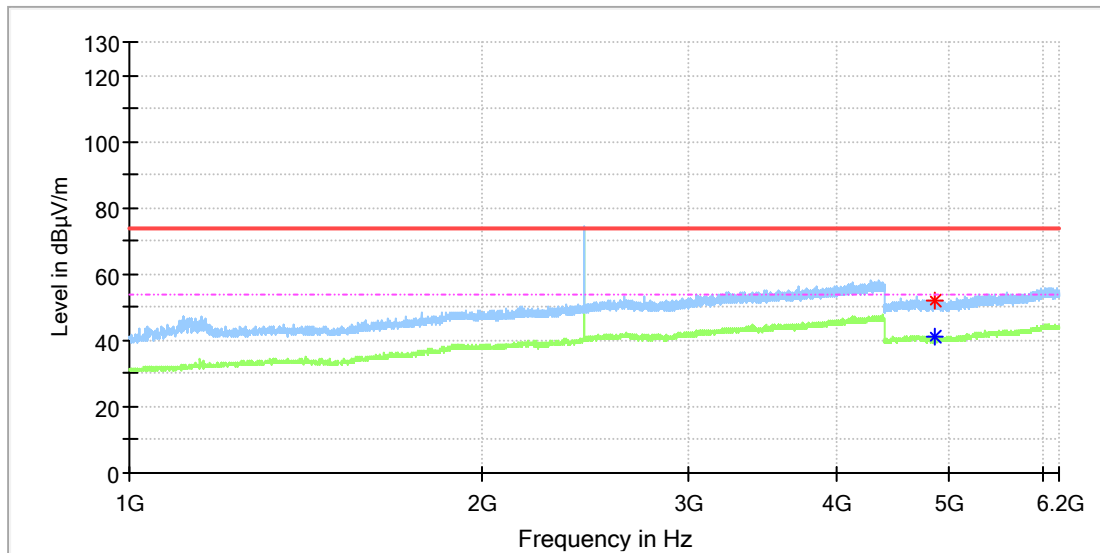


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4799.500000	51.79	---	74.00	22.21	150.0	V	353.0	13.3
4808.000000	---	41.29	54.00	12.71	150.0	V	231.0	13.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

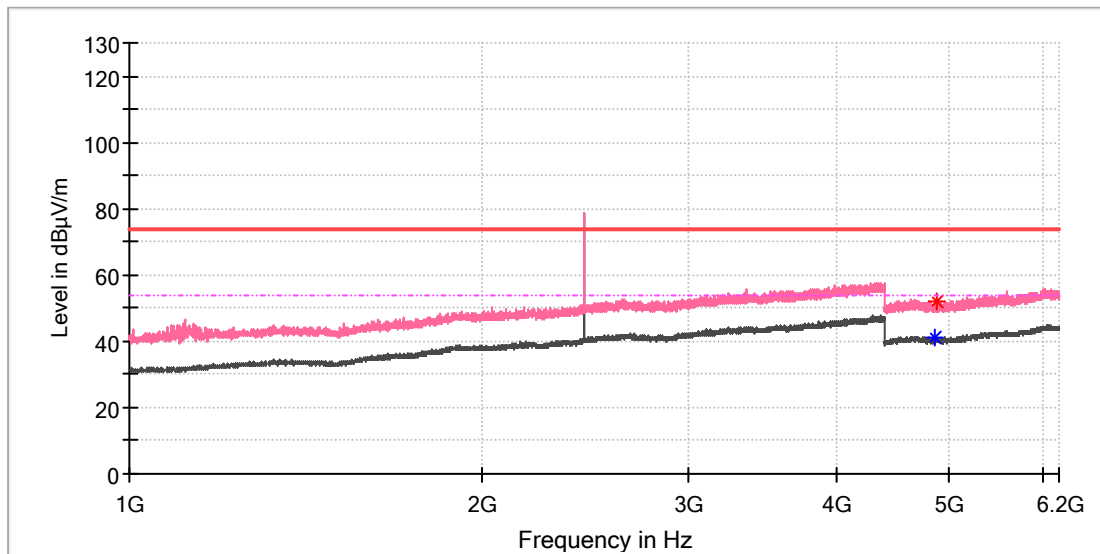


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4860.000000	---	40.98	54.00	13.02	150.0	H	208.0	13.3
4862.000000	52.19	---	74.00	21.81	150.0	H	172.0	13.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

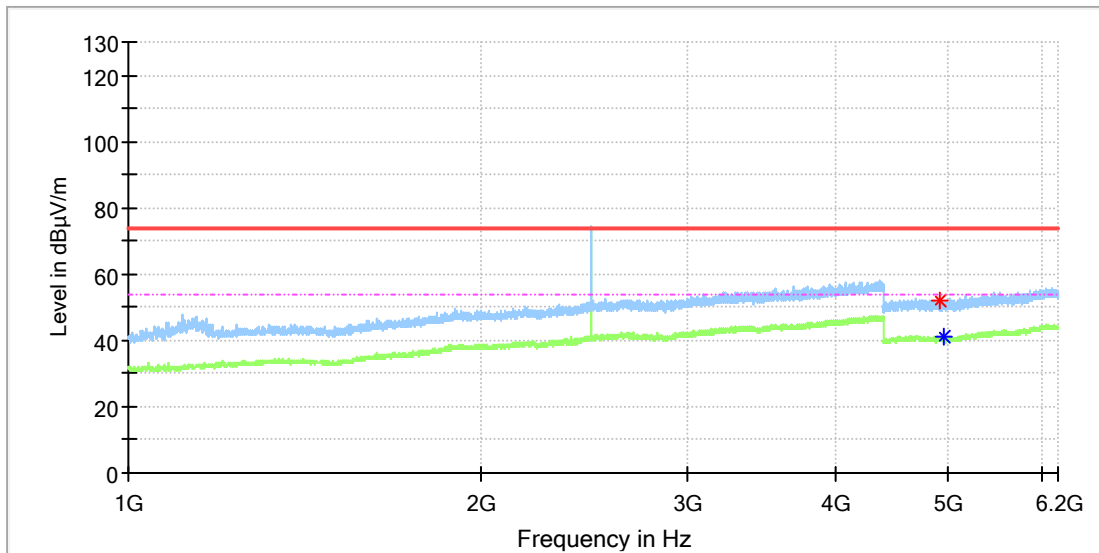


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4863.000000	---	41.21	54.00	12.79	150.0	V	82.0	13.3
4876.500000	51.70	---	74.00	22.30	150.0	V	250.0	13.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

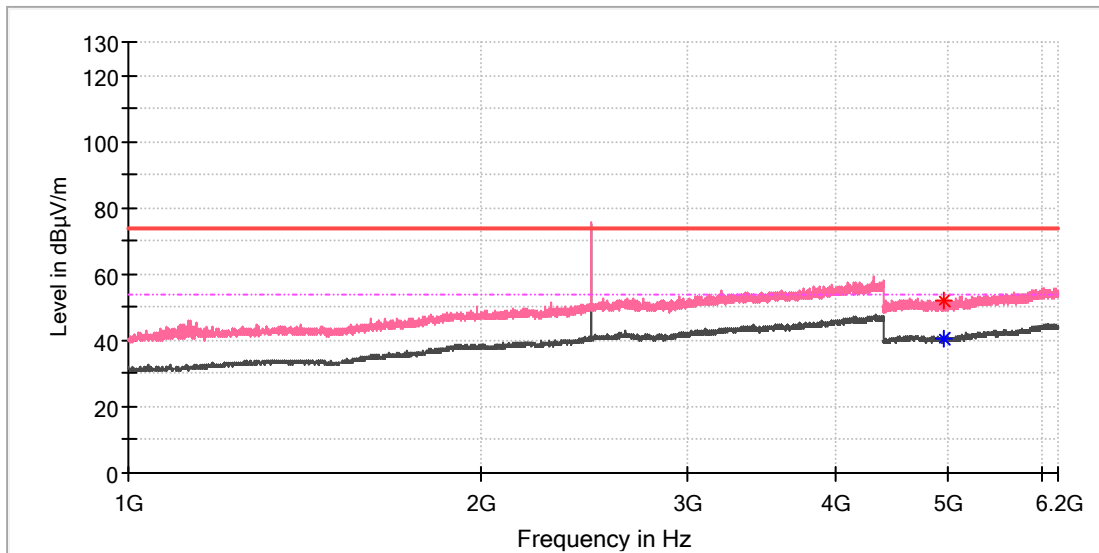


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	52.07	---	74.00	21.93	150.0	H	27.0	13.3
4957.500000	---	40.87	54.00	13.13	150.0	H	3.0	13.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

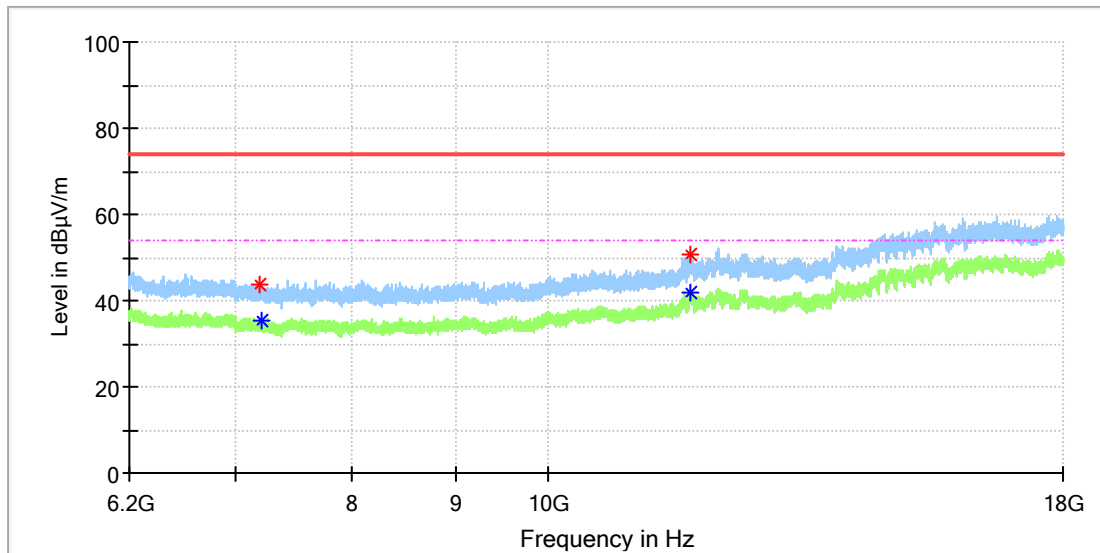


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4951.500000	---	40.79	54.00	13.21	150.0	V	68.0	13.3
4952.000000	51.85	---	74.00	22.15	150.0	V	145.0	13.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

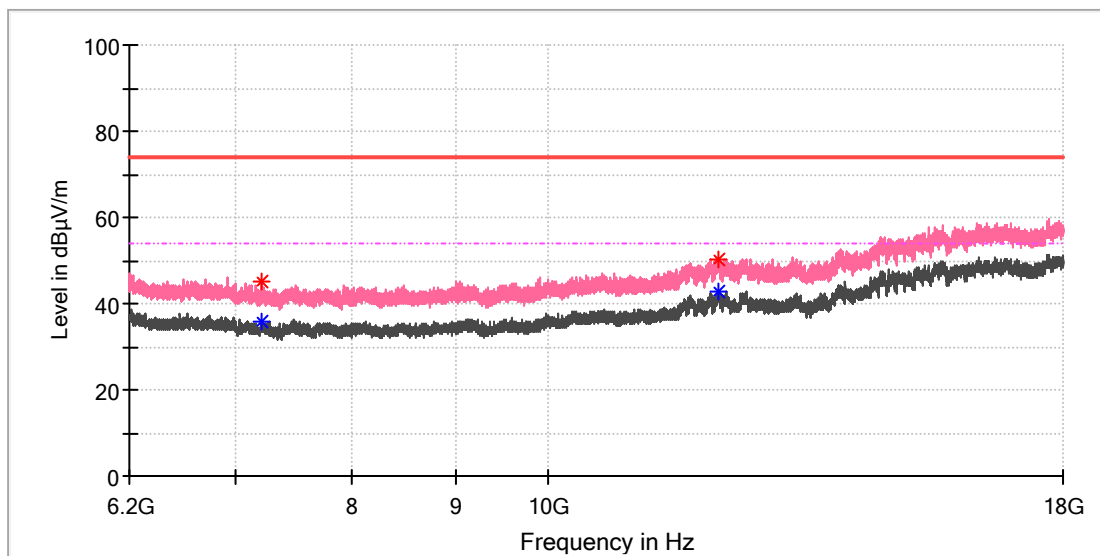


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7194.150000	43.73	---	74.00	30.27	150.0	H	79.0	8.8
7205.950000	---	35.50	54.00	18.50	150.0	H	359.0	8.8
11754.358333	---	41.67	54.00	12.33	150.0	H	250.0	15.5
11757.308333	50.87	---	74.00	23.13	150.0	H	91.0	15.4

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

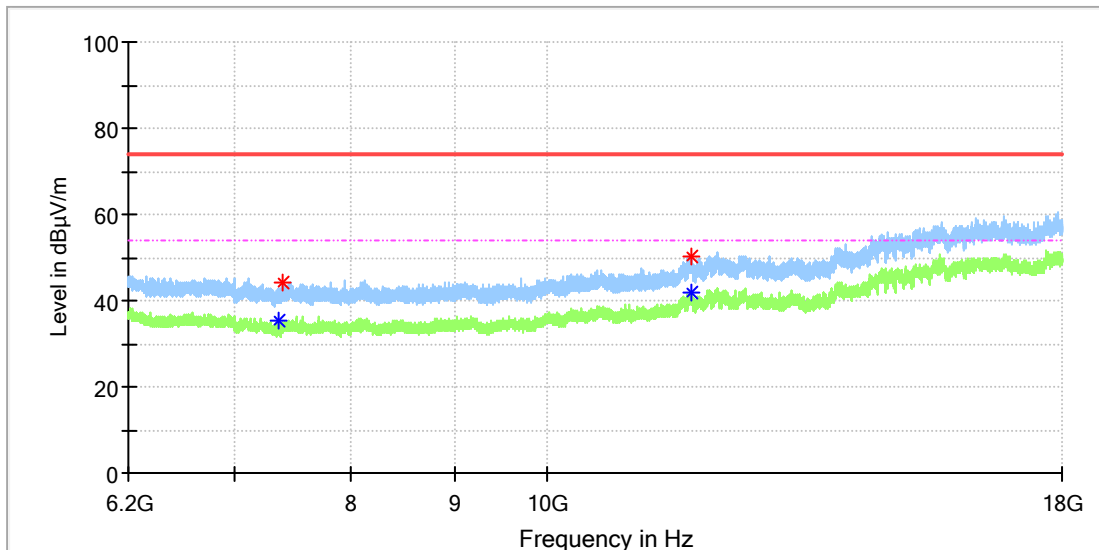


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7215.291667	---	35.76	54.00	18.24	150.0	V	139.0	8.7
7217.258333	45.19	---	74.00	28.81	150.0	V	128.0	8.7
12148.675000	---	42.57	54.00	11.43	150.0	V	183.0	16.7
12153.100000	50.40	---	74.00	23.60	150.0	V	40.0	16.6

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

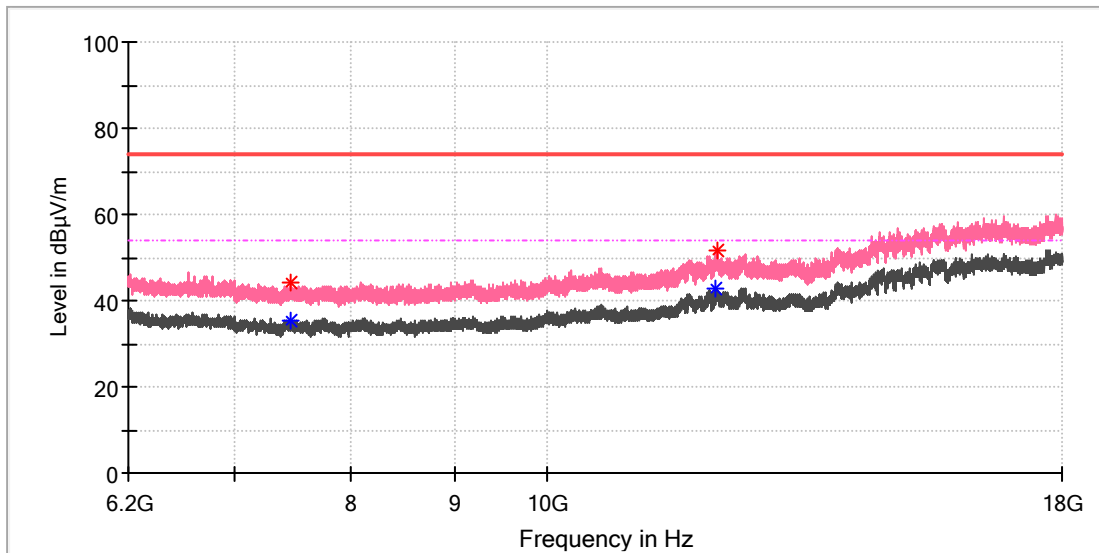


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7357.383333	---	35.48	54.00	18.52	150.0	H	178.0	8.1
7399.175000	44.09	---	74.00	29.91	150.0	H	280.0	8.3
11777.958333	50.08	---	74.00	23.92	150.0	H	131.0	15.1
11793.200000	---	41.63	54.00	12.37	150.0	H	249.0	14.9

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

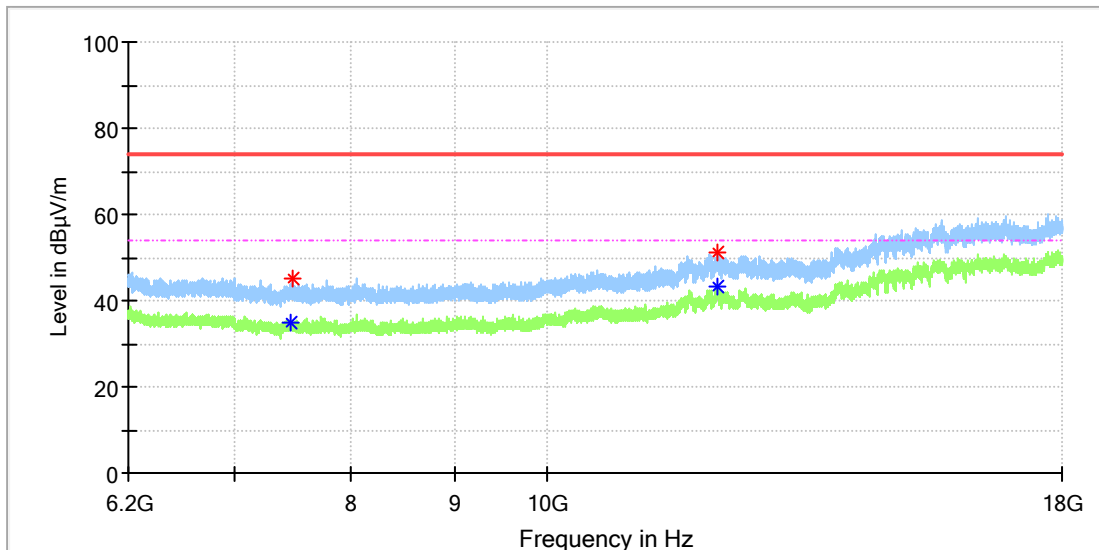


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7459.158333	44.27	---	74.00	29.73	150.0	V	147.0	8.5
7468.500000	---	35.55	54.00	18.45	150.0	V	230.0	8.6
12129.500000	---	42.59	54.00	11.41	150.0	V	147.0	16.2
12134.908333	51.68	---	74.00	22.32	150.0	V	0.0	16.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

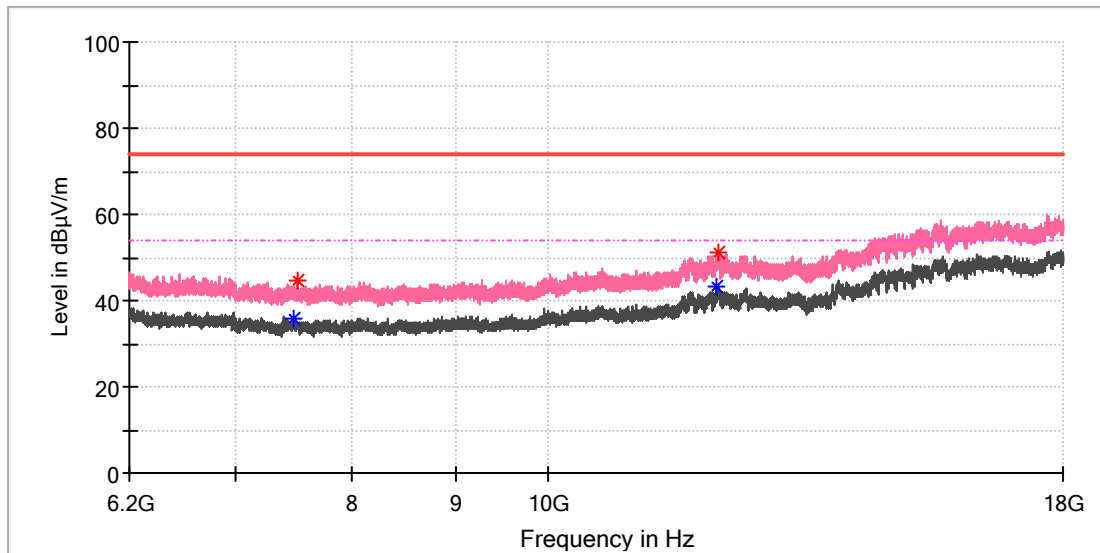


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7458.175000	---	35.07	54.00	18.93	150.0	H	125.0	8.5
7470.958333	45.17	---	74.00	28.83	150.0	H	316.0	8.6
12141.300000	---	43.08	54.00	10.92	150.0	H	293.0	16.5
12143.266667	51.16	---	74.00	22.84	150.0	H	0.0	16.6

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



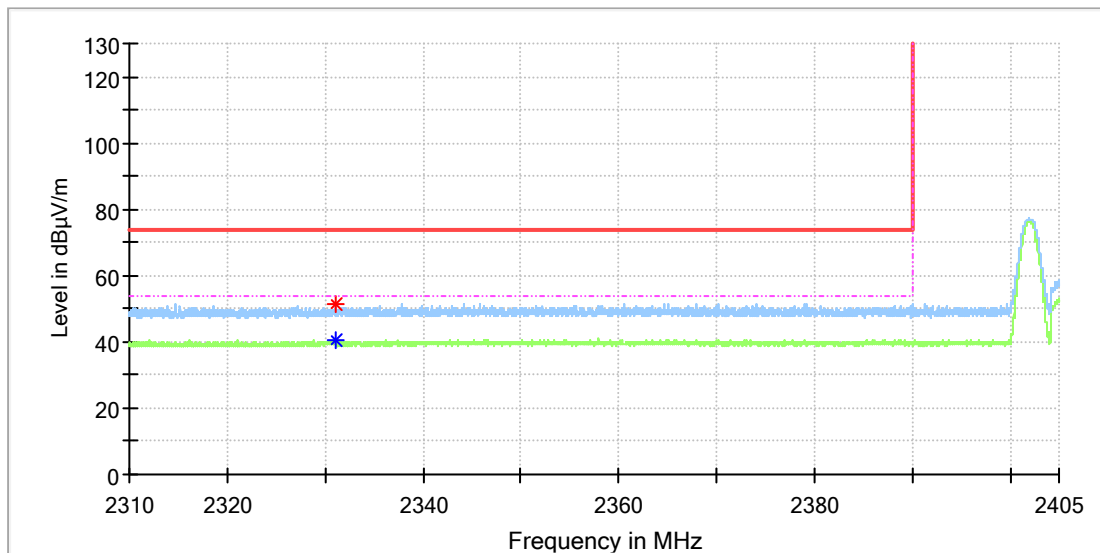
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7482.758333	---	35.95	54.00	18.05	150.0	V	330.0	8.7
7511.275000	44.73	---	74.00	29.27	150.0	V	275.0	8.7
12129.500000	---	43.11	54.00	10.89	150.0	V	359.0	16.2
12151.133333	50.94	---	74.00	23.06	150.0	V	359.0	16.7

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

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

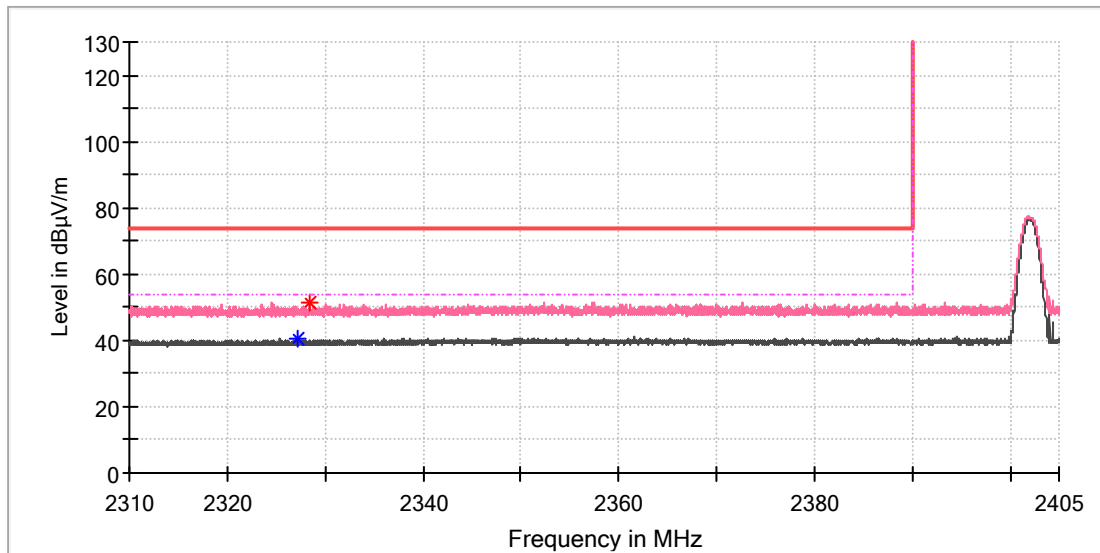


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2331.081618	51.62	---	74.00	22.38	150.0	H	44.0	8.3
2331.165441	---	40.33	54.00	13.67	150.0	H	262.0	8.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

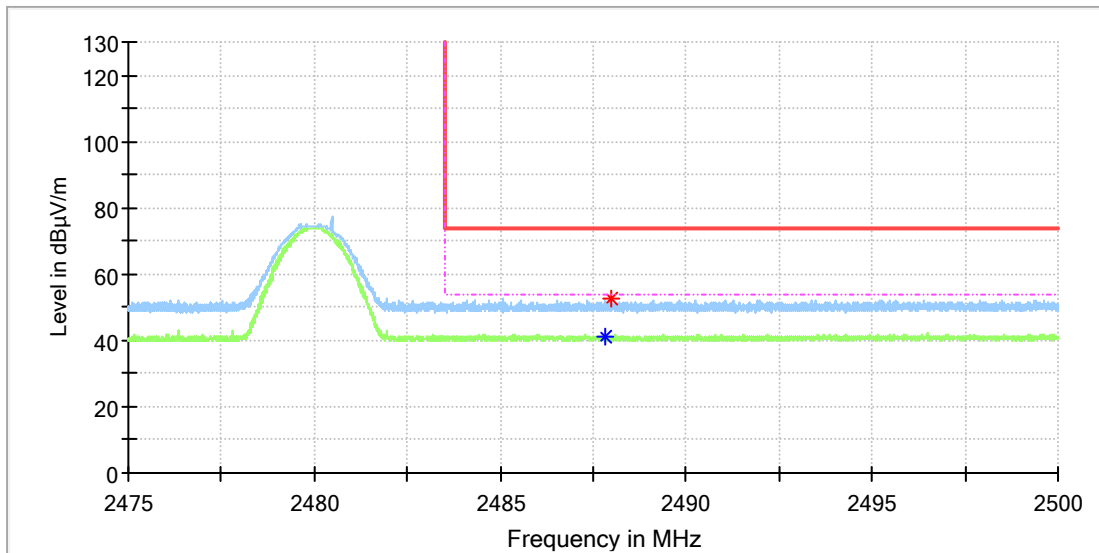


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2327.225735	---	40.23	54.00	13.77	150.0	V	6.0	8.3
2328.385294	51.44	---	74.00	22.56	150.0	V	26.0	8.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

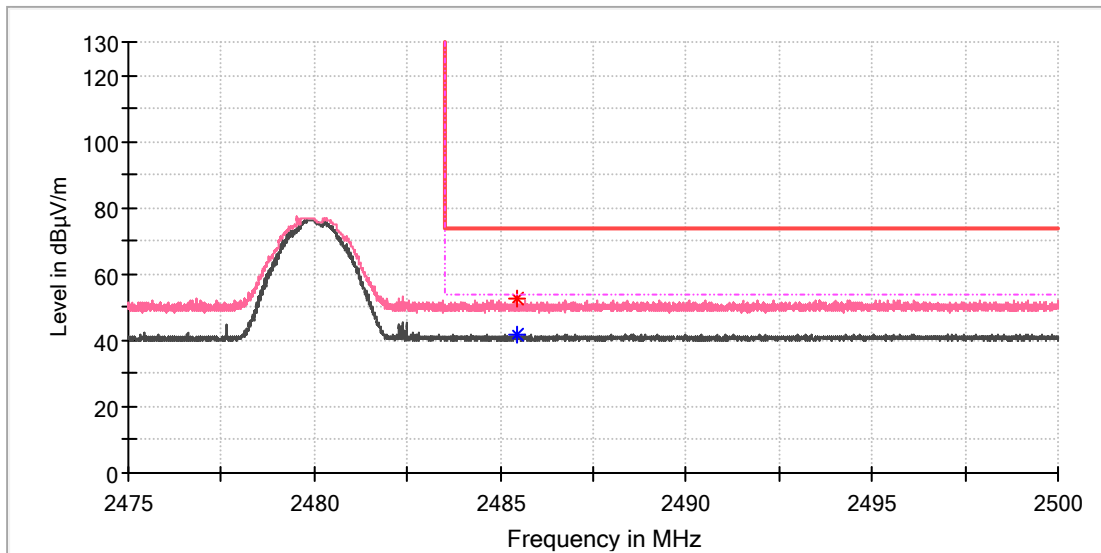


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.816177	---	41.29	54.00	12.71	150.0	H	110.0	9.0
2487.963235	52.65	---	74.00	21.35	150.0	H	70.0	9.0

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168550581/A004001751-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.444853	52.31	---	74.00	21.69	150.0	V	186.0	9.0
2485.452206	---	41.74	54.00	12.26	150.0	V	359.0	9.0

Appendix C: Test Results of Classical Bluetooth (Right earbud)

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Appendix C.1: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89959	2401.5755	2402.4751	---	---
		2441	0.86224	2440.5599	2441.4222	---	---
		2480	0.89213	2479.5536	2480.4457	---	---
3DH5	Ant1	2402	1.1646	2401.4236	2402.5882	---	---
		2441	1.1620	2440.4284	2441.5904	---	---
		2480	1.1635	2479.4263	2480.5898	---	---

DH5 Ant1 2402



DH5 Ant1 2441



DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441





Appendix C.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.972	2401.553	2402.525	---	---
		2441	0.987	2440.520	2441.507	---	---
		2480	0.891	2479.526	2480.417	---	---
3DH5	Ant1	2402	1.179	2401.430	2402.609	---	---
		2441	1.224	2440.391	2441.615	---	---
		2480	1.170	2479.430	2480.600	---	---

DH5 Ant1 2402



DH5 Ant1 2441



DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441





Appendix C.3: Test Results of Frequency stability

Test Channel (MHz)	2402
--------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.87V	2401.990	-10	-4.16	10
DC 3.483V	2401.989	-11	-4.58	
DC 4.257V	2401.991	-9	-3.75	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2401.989	-11	-4.58	10
-20	2401.988	-12	-5.00	
-10	2401.987	-13	-5.41	
0	2401.989	-11	-4.58	
10	2401.991	-9	-3.75	
20	2401.987	-13	-5.41	
30	2401.986	-14	-5.83	
40	2401.987	-13	-5.41	
50	2401.986	-14	-5.83	
55	2401.985	-15	-6.24	

Test Channel (MHz)	2441
--------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.87V	2440.988	-12	-4.92	10
DC 3.483V	2440.987	-13	-5.33	
DC 4.257V	2440.989	-11	-4.51	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2440.987	-13	-5.33	10
-20	2440.986	-14	-5.74	
-10	2440.985	-15	-6.15	
0	2440.983	-17	-6.96	
10	2440.986	-14	-5.74	
20	2440.984	-16	-6.55	
30	2440.985	-15	-6.15	
40	2440.988	-12	-4.92	
50	2440.993	-7	-2.87	
55	2440.987	-13	-5.33	

Test Channel (MHz)	2480
--------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.87V	2479.982	-18	-7.26	10
DC 3.483V	2479.986	-14	-5.65	
DC 4.257V	2479.986	-14	-5.65	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2479.988	-12	-4.84	10
-20	2479.985	-15	-6.05	
-10	2479.987	-13	-5.24	
0	2479.985	-15	-6.05	
10	2479.984	-16	-6.45	
20	2479.989	-11	-4.44	
30	2479.991	-9	-3.63	
40	2479.990	-10	-4.03	
50	2479.989	-11	-4.44	
55	2479.991	-9	-3.63	

Appendix C.4: Test Results of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.07	≥0.987	PASS
3DH5	Ant1	Hop	0.994	≥0.816	PASS



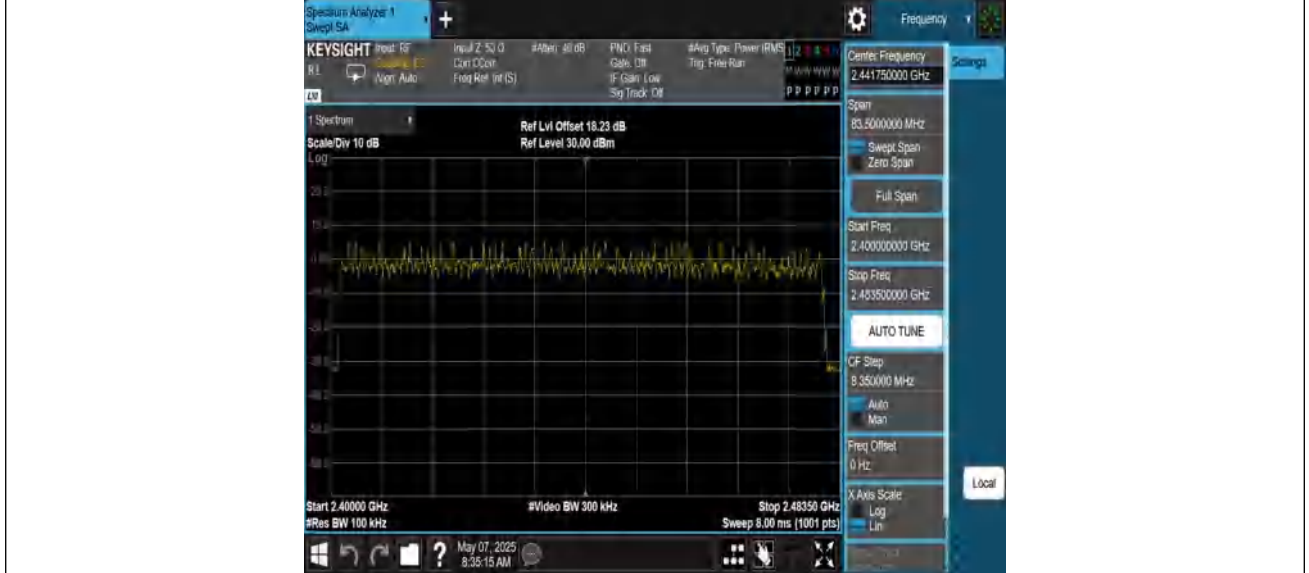
Appendix C.5: Test Results of Number of Hopping Frequency

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

DH5_Ant1_Hop



3DH5_Ant1_Hop



Appendix C.6: Test Results of Time of Occupancy

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.376	153	0.058	≤0.4	PASS
DH3	Ant1	Hop	1.633	110	0.18	≤0.4	PASS
DH5	Ant1	Hop	2.882	79	0.228	≤0.4	PASS
3DH1	Ant1	Hop	0.386	155	0.06	≤0.4	PASS
3DH3	Ant1	Hop	1.637	106	0.174	≤0.4	PASS
3DH5	Ant1	Hop	2.888	84	0.243	≤0.4	PASS



DH3 Ant1 Hop

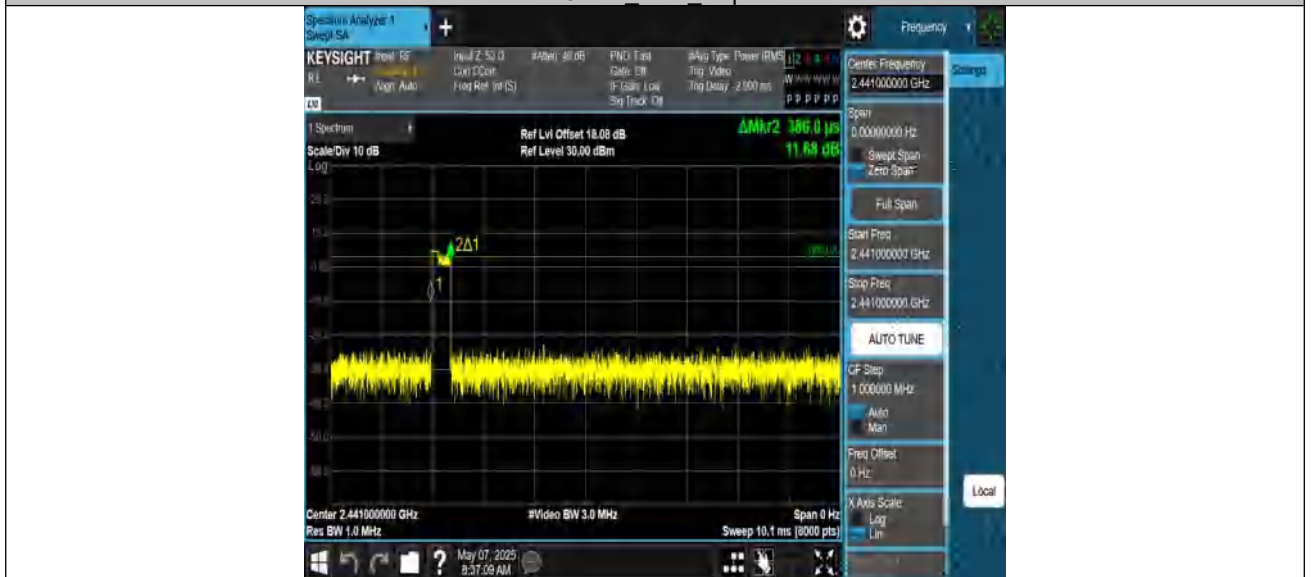


DH5 Ant1 Hop





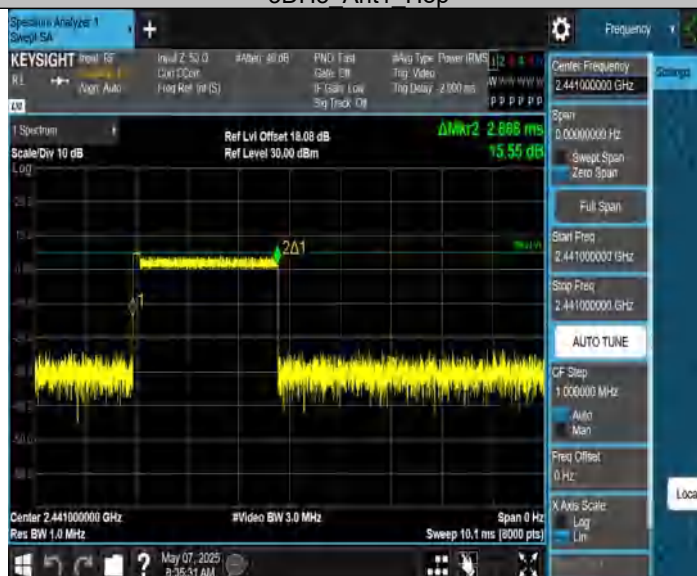
3DH1 Ant1 Hop



3DH3 Ant1 Hop



3DH5 Ant1 Hop



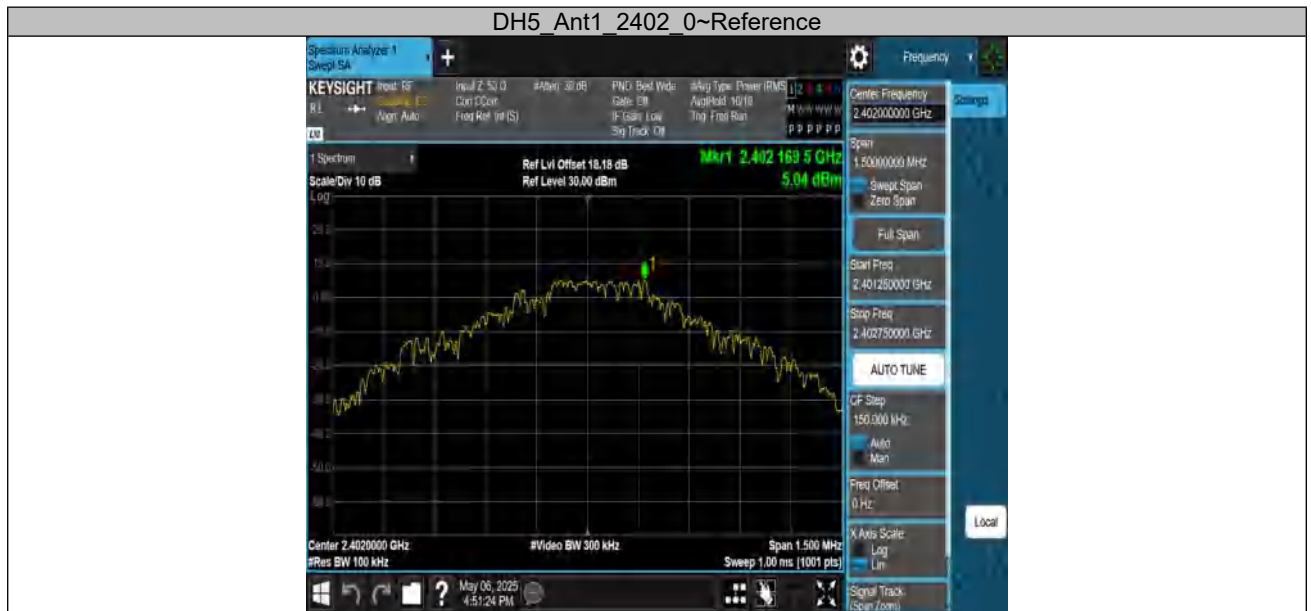


Appendix C.7: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.04	5.04	---	PASS
			30~1000	5.04	-41.59	≤-14.96	PASS
			1000~26500	5.04	-32.52	≤-14.96	PASS
		2441	Reference	4.95	4.95	---	PASS
			30~1000	4.95	-41.98	≤-15.05	PASS
			1000~26500	4.95	-32.69	≤-15.05	PASS
		2480	Reference	4.09	4.09	---	PASS
			30~1000	4.09	-41.57	≤-15.91	PASS
			1000~26500	4.09	-33.06	≤-15.91	PASS
3DH5	Ant1	2402	Reference	2.97	2.97	---	PASS
			30~1000	2.97	-41.78	≤-17.03	PASS
			1000~26500	2.97	-33.05	≤-17.03	PASS
		2441	Reference	5.10	5.10	---	PASS
			30~1000	5.10	-41.25	≤-14.9	PASS
			1000~26500	5.10	-32.95	≤-14.9	PASS
		2480	Reference	3.90	3.90	---	PASS
			30~1000	3.90	-41.33	≤-16.1	PASS
			1000~26500	3.90	-32.77	≤-16.1	PASS

DH5_Ant1_2402_0~Reference



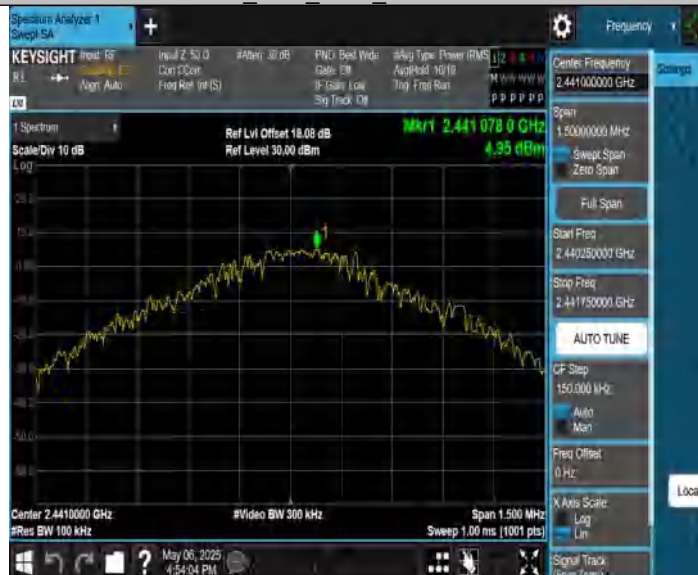
DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



Band edge measurements.

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.71	-44.52	≤-15.29	PASS
		High	2480	3.81	-45.36	≤-16.19	PASS
3DH5	Ant1	Low	2402	4.85	-45.09	≤-15.15	PASS
		High	2480	4.04	-44.51	≤-15.96	PASS
DH5	Ant1	Hopping	2402	4.30	-45.53	≤-15.70	PASS
		Hopping	2480	3.19	-44.30	≤-16.81	PASS
3DH5	Ant1	Hopping	2402	-1.72	-44.93	≤-21.72	PASS
		Hopping	2480	-2.02	-44.56	≤-22.02	PASS

DH5 Ant1 Low 2402



DH5 Ant1 High 2480



3DH5 Ant1 Low 2402



3DH5 Ant1 High 2480



DH5 Ant1 Hopping 2402



DH5 Ant1 Hopping 2480



3DH5 Ant1 Hopping 2402



3DH5 Ant1 Hopping 2480



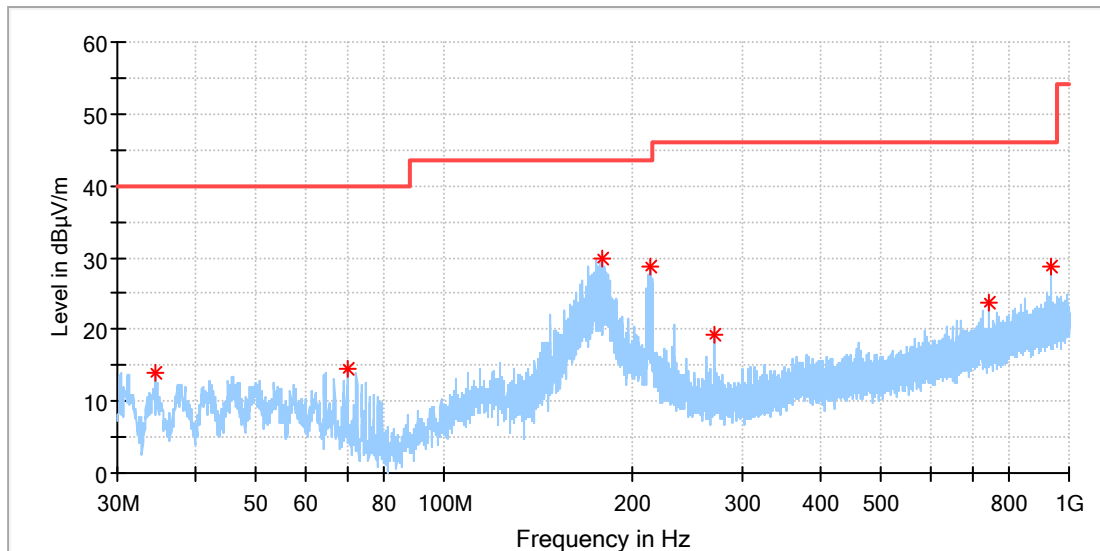
Appendix C.8: Test Results of Radiated Spurious Emissions

Note: 1. 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. 2. This testing was carried out on different modulations, but only the worst case (GFSK) was presented in this report.

30MHz - 1GHz

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

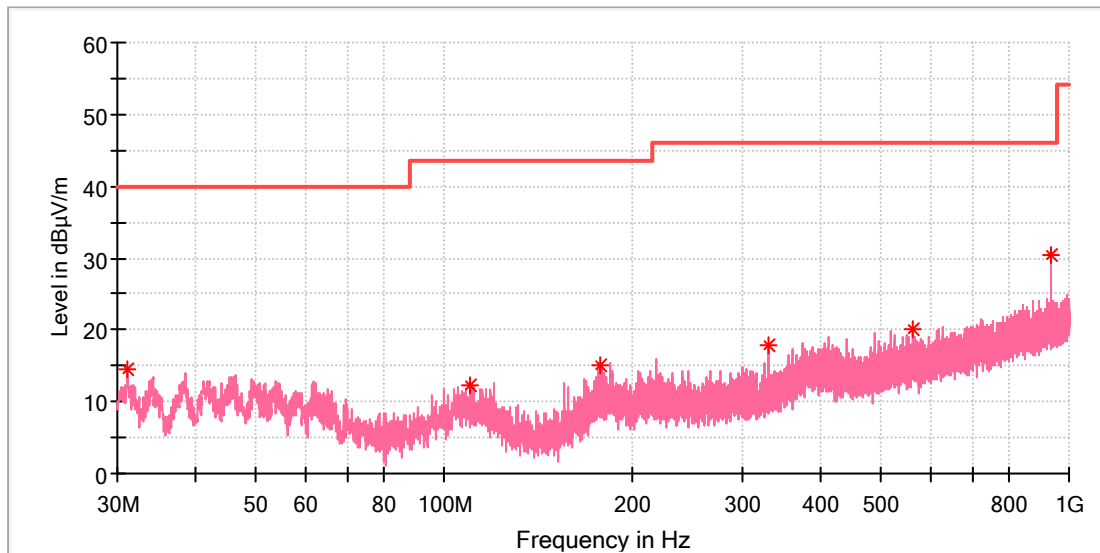


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.476923	13.87	40.00	26.13	100.0	H	168.0	-22.1
70.255000	14.49	40.00	25.51	100.0	H	136.0	-22.0
179.491923	29.96	43.50	13.54	100.0	H	126.0	-20.6
213.143462	28.72	43.50	14.78	100.0	H	0.0	-18.8
270.149615	19.22	46.00	26.78	100.0	H	107.0	-16.9
742.502308	23.62	46.00	22.38	100.0	H	63.0	-7.2
937.546923	28.85	46.00	17.15	100.0	H	229.0	-4.4

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

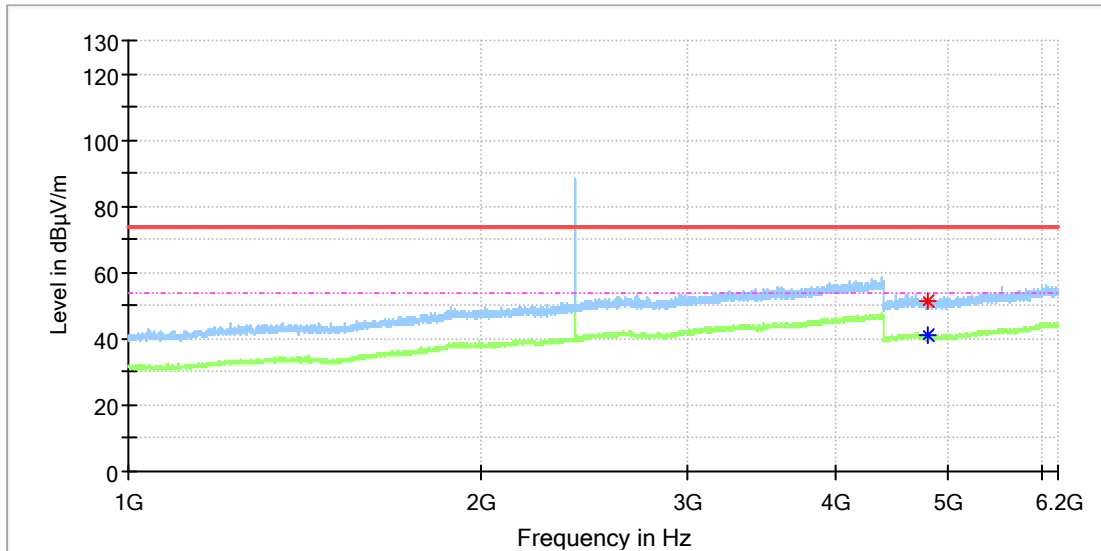
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.081923	14.51	40.00	25.49	100.0	V	139.0	-22.9
109.875769	12.34	43.50	31.16	100.0	V	198.0	-19.2
177.402692	15.17	43.50	28.33	100.0	V	198.0	-20.8
331.035769	17.90	46.00	28.10	100.0	V	5.0	-15.3
560.366154	19.96	46.00	26.04	100.0	V	177.0	-10.6
937.546923	30.36	46.00	15.64	100.0	V	0.0	-4.4

1GHz - 18GHz

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

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

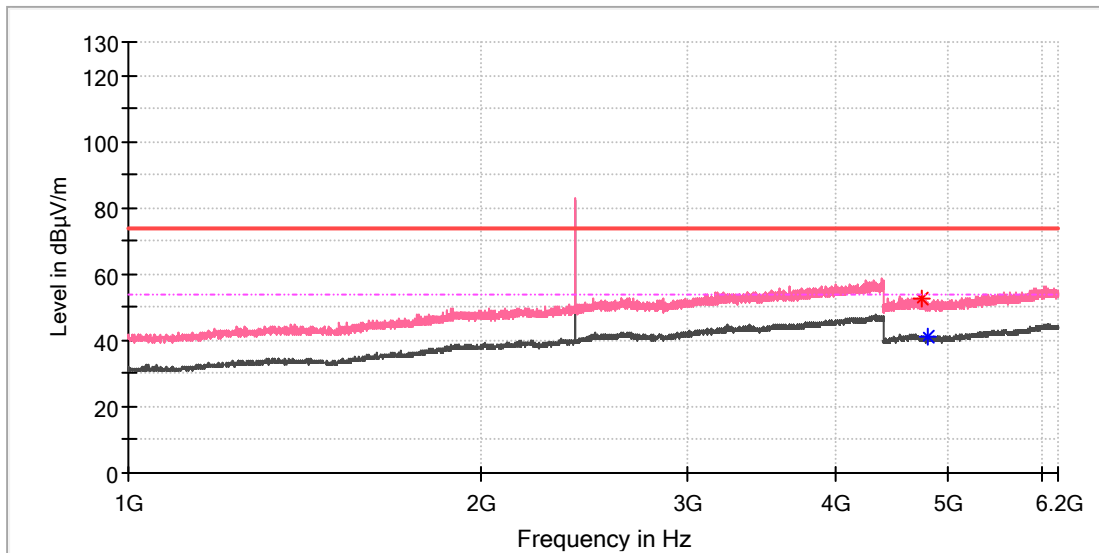


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4806.500000	---	41.08	54.00	12.92	150.0	H	155.0	13.3
4809.500000	51.66	---	74.00	22.34	150.0	H	166.0	13.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

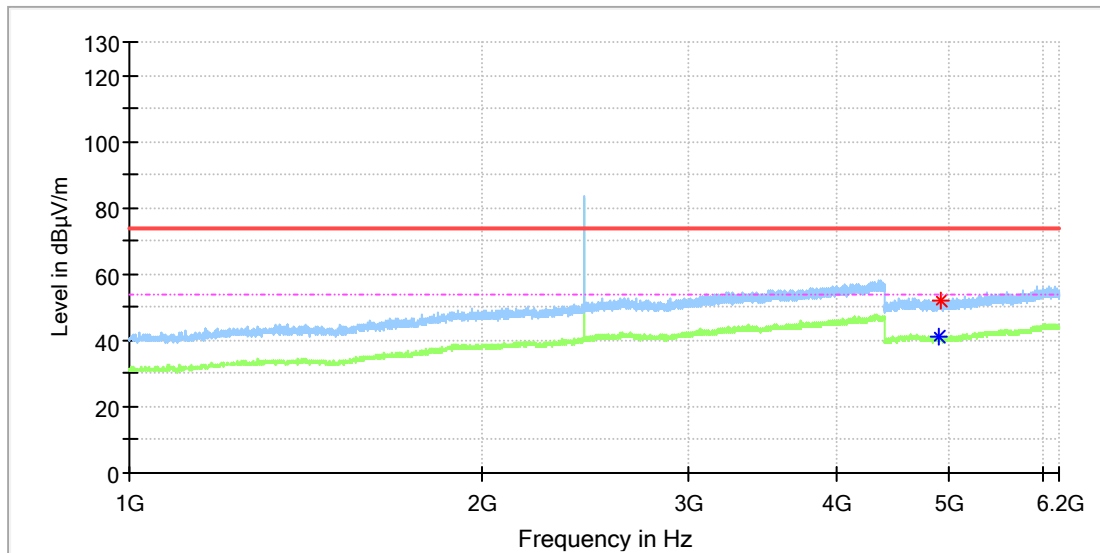


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4753.000000	52.70	---	74.00	21.30	150.0	V	239.0	13.3
4802.500000	---	41.20	54.00	12.80	150.0	V	220.0	13.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

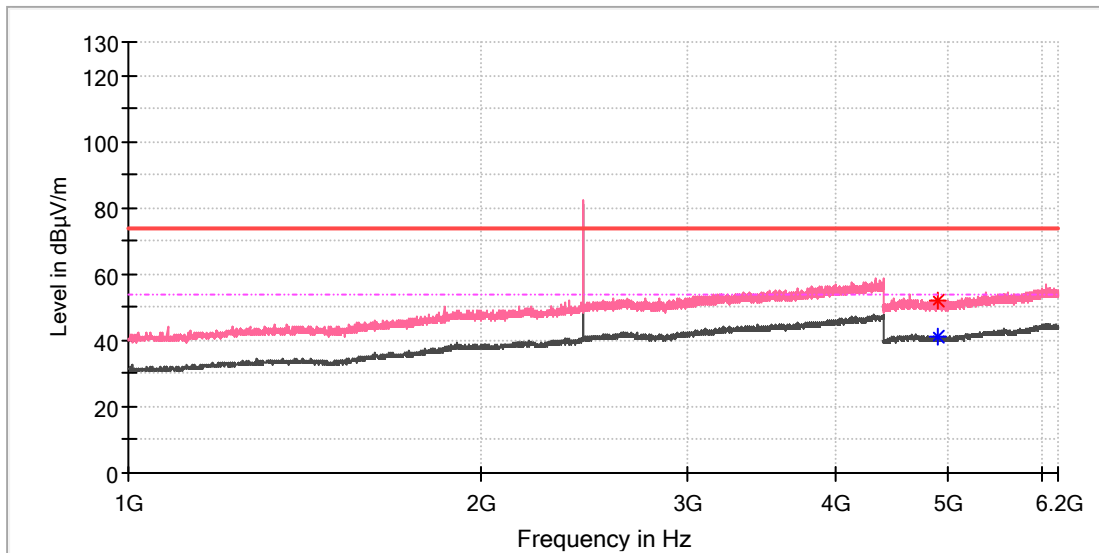


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4904.000000	---	41.02	54.00	12.98	150.0	H	319.0	13.3
4908.500000	51.79	---	74.00	22.21	150.0	H	305.0	13.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

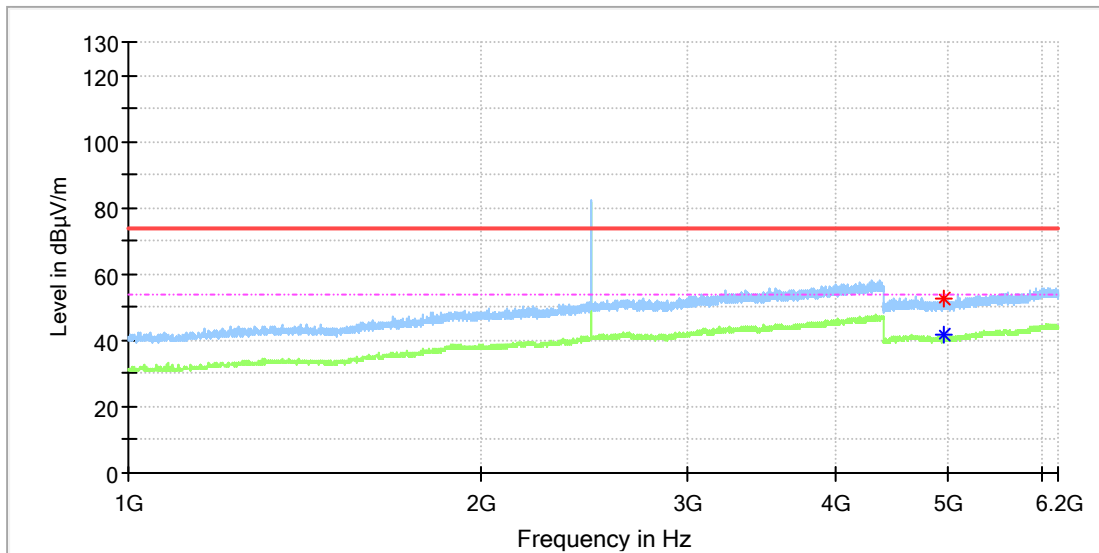


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4898.000000	51.94	---	74.00	22.06	150.0	V	336.0	13.3
4903.000000	---	41.02	54.00	12.98	150.0	V	103.0	13.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

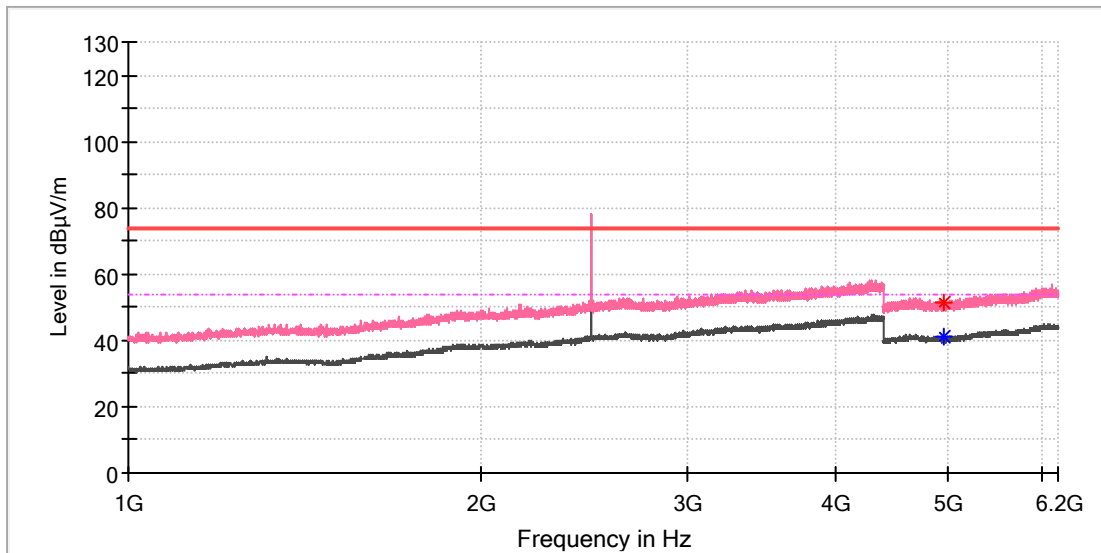


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4946.000000	52.59	---	74.00	21.41	150.0	H	113.0	13.3
4950.000000	---	41.64	54.00	12.36	150.0	H	174.0	13.3

EUT Information

EUT Name: Bluetooth Headset
 Model: Sense pro
 Test Mode: BR_DH5_High channel
 Order No/Sample No: 168550581/A003981536-002
 Test Voltage:: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

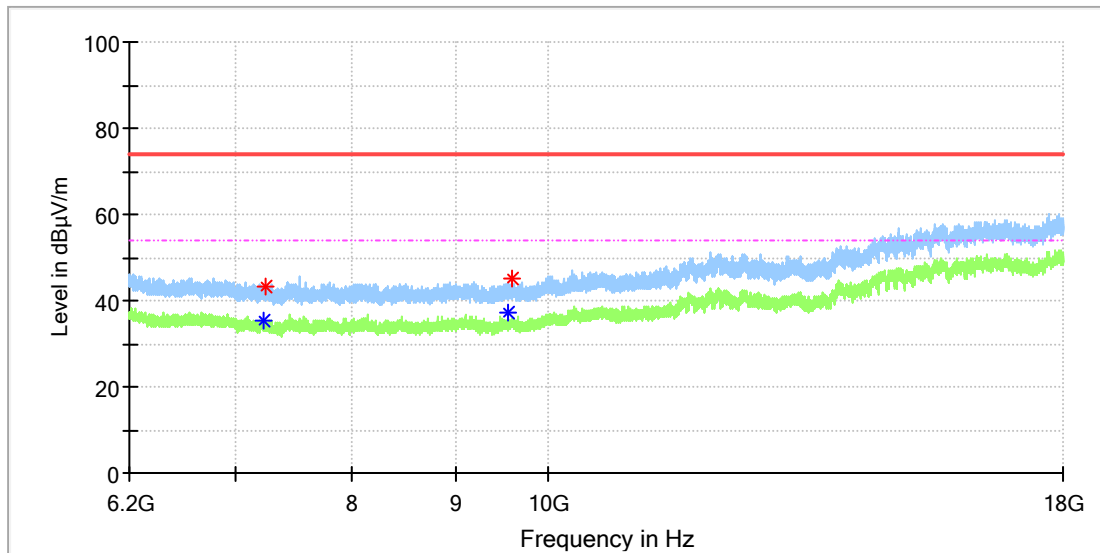


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	51.41	---	74.00	22.59	150.0	V	167.0	13.3
4964.000000	---	40.91	54.00	13.09	150.0	V	340.0	13.3

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

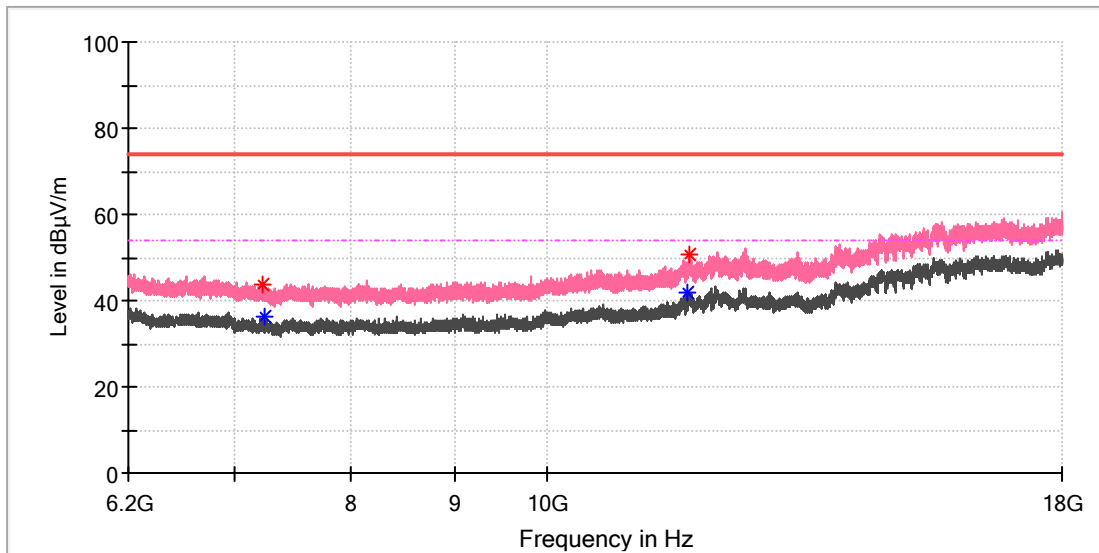


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7224.633333	---	35.37	54.00	18.63	150.0	H	74.0	8.7
7238.400000	43.48	---	74.00	30.52	150.0	H	0.0	8.6
9544.808333	---	37.22	54.00	16.78	150.0	H	196.0	10.2
9592.991667	45.28	---	74.00	28.72	150.0	H	314.0	10.3

EUT Information

EUT Name: Bluetooth Headset
 Model: Sense pro
 Test Mode: BR_DH5_Low channel
 Order No/Sample No: 168550581/A003981536-002
 Test Voltage:: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

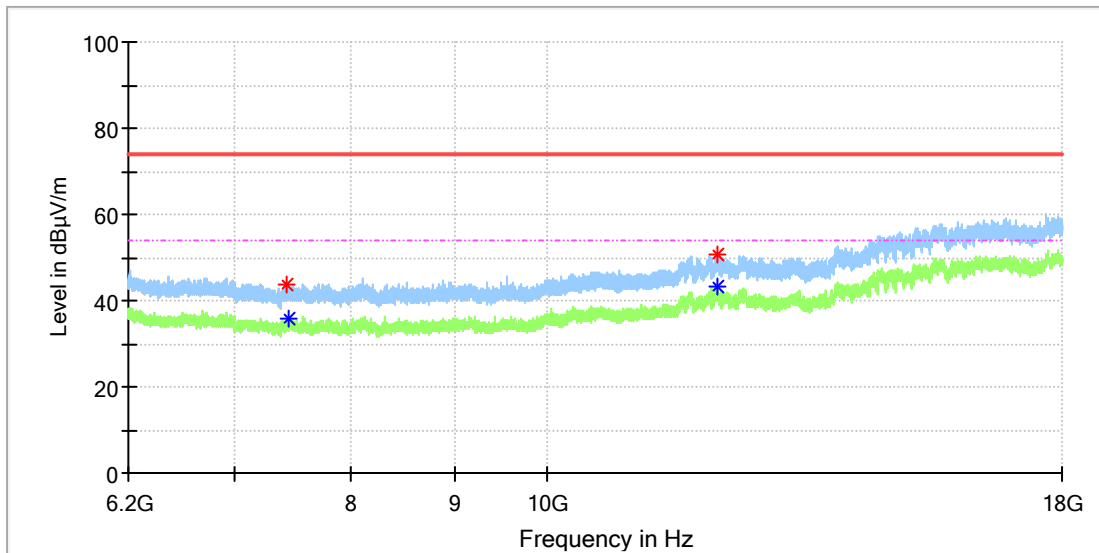


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7222.175000	43.54	---	74.00	30.46	150.0	V	150.0	8.7
7235.450000	---	36.06	54.00	17.94	150.0	V	138.0	8.6
11747.475000	---	41.93	54.00	12.07	150.0	V	231.0	15.4
11751.900000	50.92	---	74.00	23.08	150.0	V	0.0	15.5

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

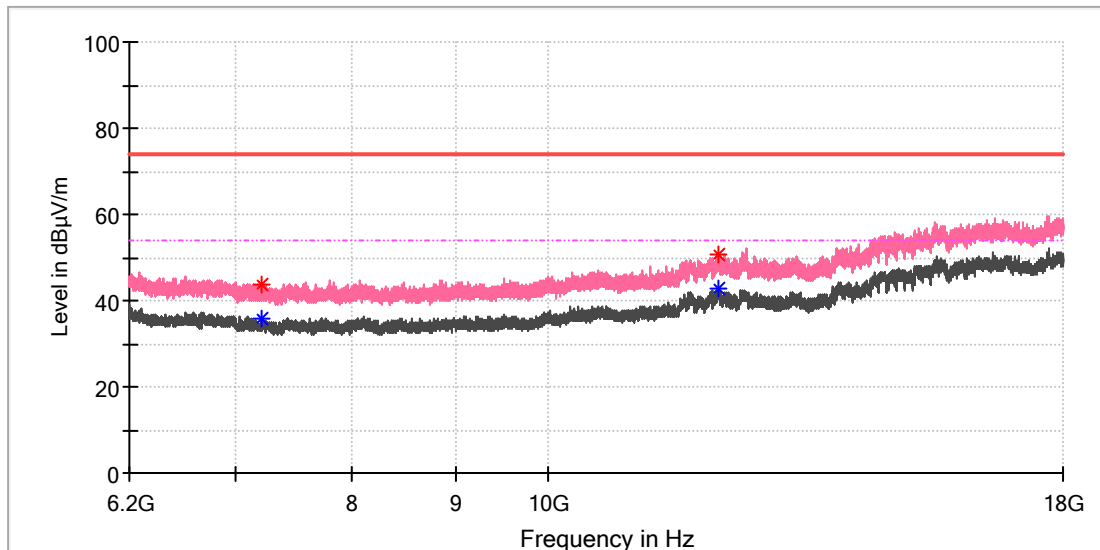


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7433.100000	43.79	---	74.00	30.21	150.0	H	218.0	8.4
7450.308333	---	35.82	54.00	18.18	150.0	H	240.0	8.5
12141.791667	---	43.44	54.00	10.56	150.0	H	33.0	16.5
12152.116667	50.76	---	74.00	23.24	150.0	H	357.0	16.6

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

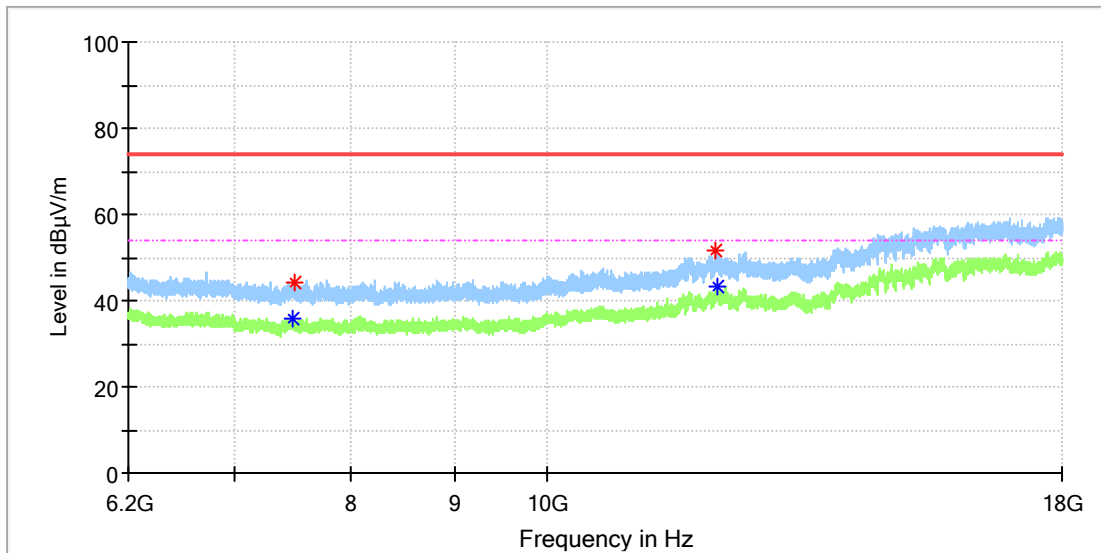


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7207.425000	---	35.83	54.00	18.17	150.0	V	29.0	8.8
7214.308333	43.86	---	74.00	30.15	150.0	V	209.0	8.7
12151.133333	---	42.88	54.00	11.12	150.0	V	42.0	16.7
12157.525000	50.53	---	74.00	23.47	150.0	V	296.0	16.3

EUT Information

EUT Name: Bluetooth Headset
 Model: Sense pro
 Test Mode: BR_DH5_High channel
 Order No/Sample No: 168550581/A003981536-002
 Test Voltage:: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

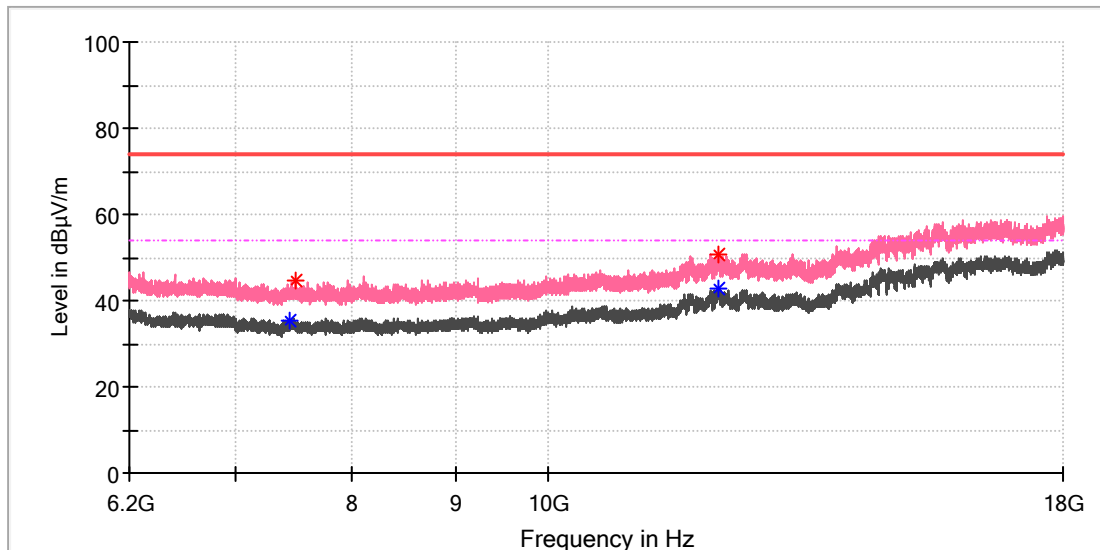


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7479.808333	---	35.78	54.00	18.22	150.0	H	0.0	8.7
7500.950000	44.38	---	74.00	29.62	150.0	H	134.0	8.7
12124.583333	51.65	---	74.00	22.35	150.0	H	146.0	16.1
12150.641667	---	43.03	54.00	10.97	150.0	H	263.0	16.7

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



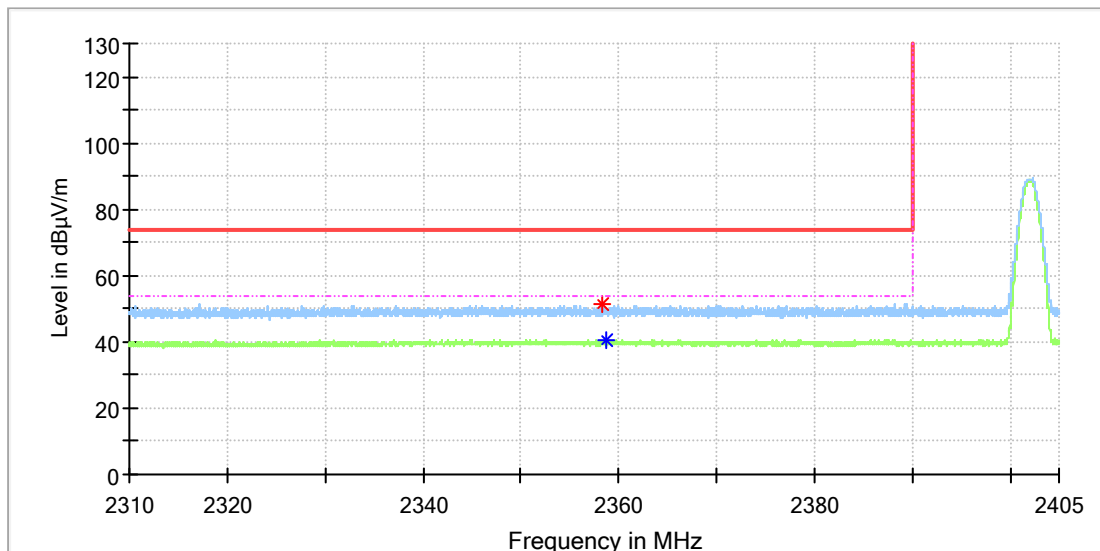
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7442.933333	---	35.57	54.00	18.43	150.0	V	70.0	8.5
7491.608333	44.71	---	74.00	29.29	150.0	V	257.0	8.7
12144.741667	50.54	---	74.00	23.46	150.0	V	92.0	16.6
12146.216667	---	42.91	54.00	11.09	150.0	V	291.0	16.6

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

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

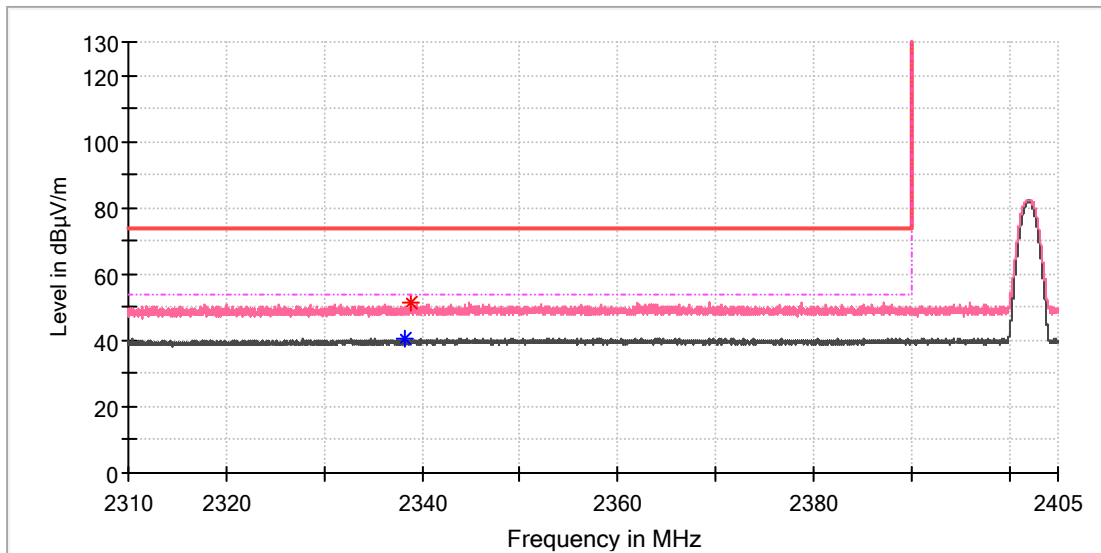


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2358.394118	51.37	---	74.00	22.63	150.0	H	259.0	8.5
2358.785294	---	40.35	54.00	13.65	150.0	H	192.0	8.5

EUT Information

EUT Name: Bluetooth Headset
 Model: Sense pro
 Test Mode: BR_DH5_Low channel
 Order No/Sample No: 168550581/A003981536-002
 Test Voltage:: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

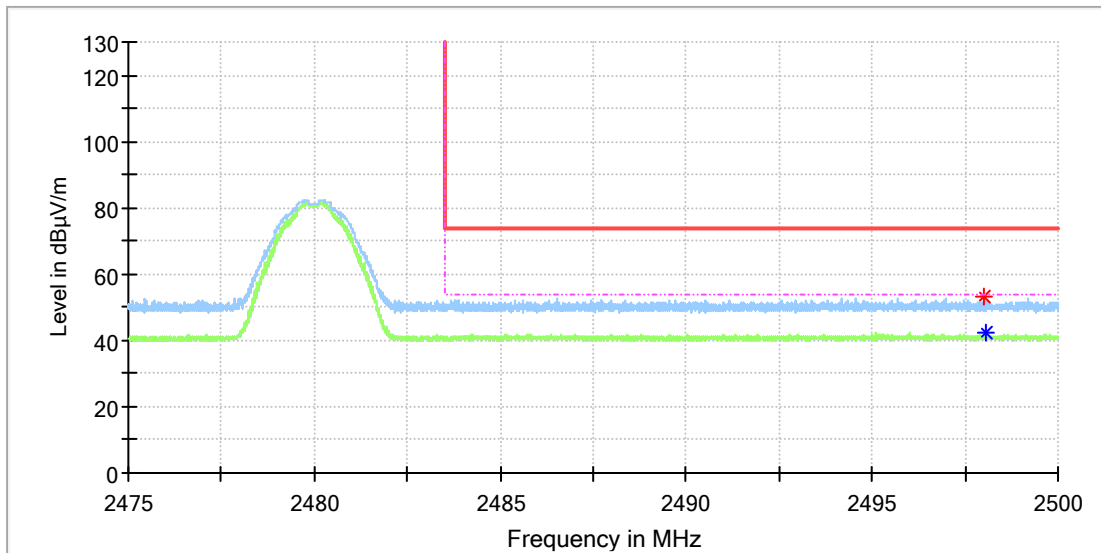


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2338.164706	---	40.66	54.00	13.34	150.0	V	165.0	8.4
2338.849265	51.46	---	74.00	22.54	150.0	V	50.0	8.4

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

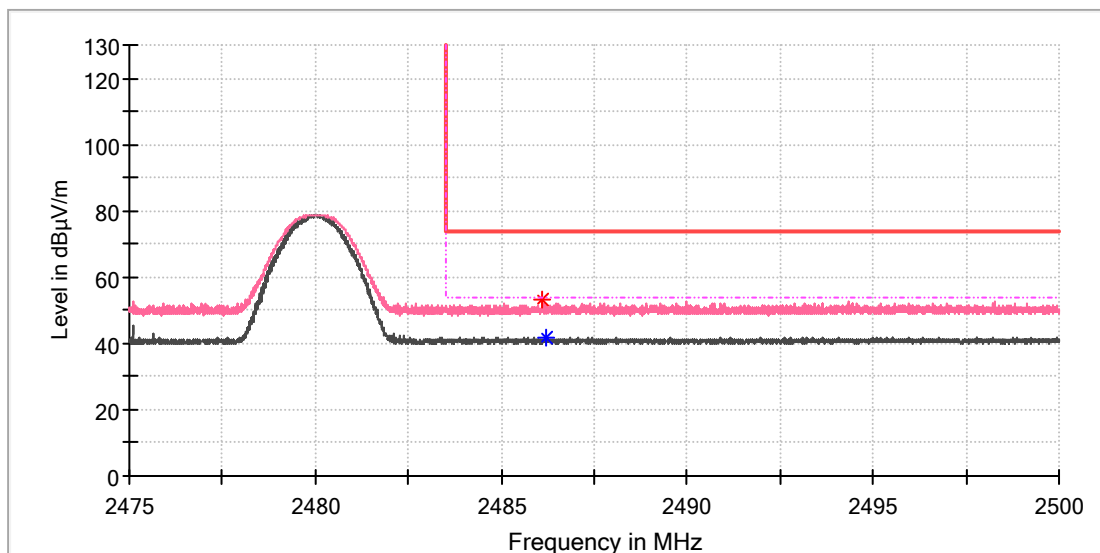


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2498.011029	52.91	---	74.00	21.09	150.0	H	358.0	9.0
2498.073529	---	42.19	54.00	11.81	150.0	H	263.0	9.0

EUT Information

EUT Name:	Bluetooth Headset
Model:	Sense pro
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168550581/A003981536-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.099265	53.25	---	74.00	20.75	150.0	V	147.0	9.0
2486.183824	---	41.54	54.00	12.46	150.0	V	75.0	9.0