



Prüfbericht-Nr.: <i>Test report no.:</i>	CN231UKT 001	Auftrags-Nr.: <i>Order no.:</i>	168422487	Seite 1 von 24 <i>Page 1 of 24</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2023-03-14	
Auftraggeber: <i>Client:</i>	Harman International Industries, Inc 8500 Balboa Blvd, Northridge, California, 91329, United States			
Prüfgegenstand: <i>Test item:</i>	BLUETOOTH HEADSET			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	SOUNDGEAR SENSE (Trademark: JBL)			
Auftrags-Inhalt: <i>Order content:</i>	Type test			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 2 February 2017 CFR47 FCC Part 15: Subpart C Section 15.207 RSS-Gen Issue 5 March 2019 CFR47 FCC Part 15: Subpart C Section 15.209			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2023-04-12	Refer to photos document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003454679			
Prüfzeitraum: <i>Testing period:</i>	2023-04-14 – 2023-05-23			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	X 	genehmigt von: <i>authorized by:</i>	X 	
Datum: <i>Date:</i>	2023-06-02	Ausstellungsdatum: <i>Issue date:</i>	2023-06-02	
Stellung / Position:	Project Manager	Stellung / Position:	Reviewer	
Sonstiges / <i>Other:</i>	FCC ID: APIJBLSGSENSE HVIN: SOUNDGEAR SENSE IC: 6132A-JBLSGSENSE			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
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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Remarks
Anmerkungen

<p>1</p>	<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. 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. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p>
<p>2</p>	<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>
<p>3</p>	<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>
<p>4</p>	<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 left earbud.

Appendix C: Test Results of right earbud.

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.

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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	YLX23JMF	N/A
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	2024-03-15
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
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

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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 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 EUTs are Bluetooth earbuds, which supports Bluetooth dual mode technology.

There is no difference except the PCB layout of left and right earbuds.

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	SOUNDGEAR SENSE
Trademark	JBL
FCC ID	APIJBLSGSENSE
IC	6132A-JBLSGSENSE
HVIN	SOUNDGEAR SENSE
Extreme Temperature Range	0°C to +45°C
Operating Voltage	DC 3.85V, 70mAh via built-in Li-ion cell battery DC 5V, 180mA via charging case for charging
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	FPC Antenna
Antenna Gain	-1.05 dBi for left earbud -0.98 dBi for right earbud
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	FPC Antenna
Antenna Gain	-1.05 dBi for left earbud -0.98 dBi for right earbud

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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

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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.

According to clause 3.1, all test items were applied on model SOUNDGEAR SENSE with left & right earbuds.

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

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)

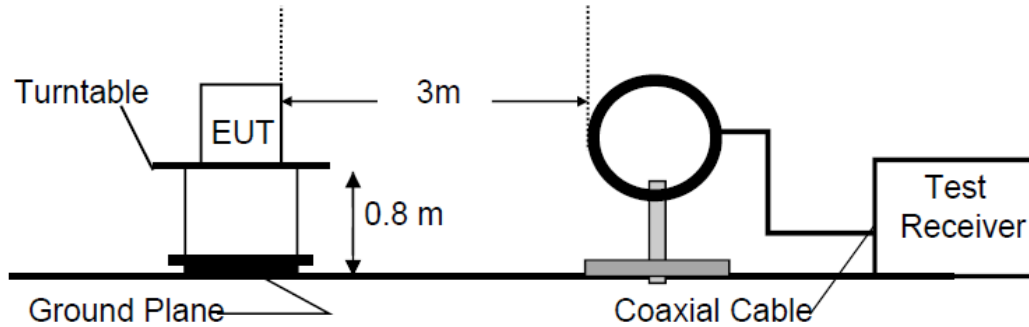


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

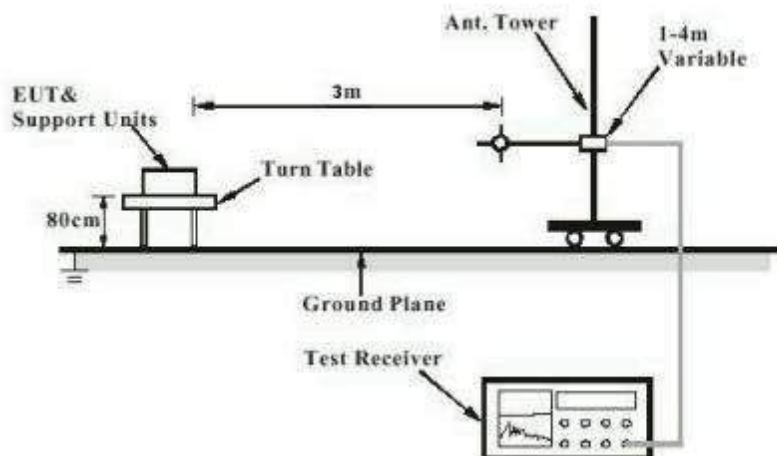
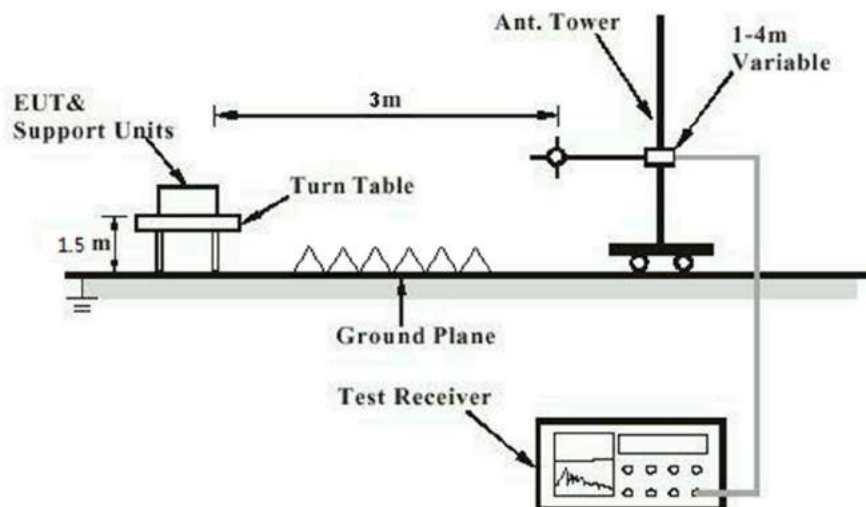


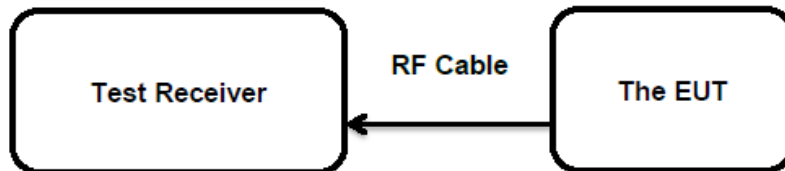
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



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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 SpecificationTest 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 are -1.05 dBi for left earbud & -0.98 dBi for 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	2023-04-14 to 2023-05-23
Input voltage	DC 3.85V
Operation mode	A.1
Test channel	Low / Middle / High
Ambient temperature	24.5 °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	7.45	0.00556	< 0.125
	2441	7.29	0.00536	
	2480	6.97	0.00498	
EDR	2402	7.25	0.00531	< 0.125
	2441	7.10	0.00513	
	2480	6.87	0.00486	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 6.40 dBm 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	7.68	0.00586	< 0.125
	2441	7.46	0.00557	
	2480	7.32	0.00540	
EDR	2402	7.46	0.00557	< 0.125
	2441	7.42	0.00552	
	2480	7.15	0.00519	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 6.70 dBm 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 : 2023-04-14 to 2023-04-28
Input voltage : DC 3.85V
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 24.5 °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	0.87554	/
	2441	0.91919	
	2480	0.90754	
EDR	2402	1.1796	/
	2441	1.1678	
	2480	1.1669	

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

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
BR	2402	0.91190	/
	2441	0.87978	
	2480	0.94885	
EDR	2402	1.1828	/
	2441	1.1659	
	2480	1.1607	

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 : 2023-04-14 to 2023-04-28

Input voltage : DC 3.85V

Operation mode : A.1

Test channel : Low / Middle / High

Ambient temperature : 24.5 °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

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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 : 2023-04-14 to 2023-04-28

Input voltage : DC 3.85V

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.: CN231UKT 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 : 2023-04-14 to 2023-04-28

Input voltage : DC 3.85V

Operation mode : B

Test channel : Low / Middle / High

Ambient temperature : 24.5 °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

Test Mode	Channel	Result[MHz]	Limit[MHz]	Verdict
BR-DH5	Hop	0.994	≥ 0.972	PASS
EDR-3DH5	Hop	1.026	≥ 0.832	PASS

Note:

The limit is maximum $2/3$ of the 20 dB bandwidth: 793.333KHz.

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

Test Mode	Channel	Result[MHz]	Limit[MHz]	Verdict
BR-DH5	Hop	1.152	≥ 1.026	PASS
EDR-3DH5	Hop	0.862	≥ 0.828	PASS

Note:

The limit is maximum $2/3$ of the 20 dB bandwidth: 832KHz.

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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 : 2023-04-14 to 2023-04-28
Input voltage : DC 3.85V
Operation mode : B
Ambient temperature : 24.5 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

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

Prüfbericht-Nr.: CN231UKT 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 : 2023-04-14 to 2023-04-28

Input voltage : DC 3.85V

Operation mode : B

Ambient temperature : 24.5 °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

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480 MHz	79	≥ 15	Pass

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

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480 MHz	79	≥ 15	Pass

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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 : 2023-04-14 to 2023-04-28

Input voltage : DC 3.85V

Operation mode : B

Test channel : Low / Middle / High

Ambient temperature : 24.5 °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.

7 List of Tables

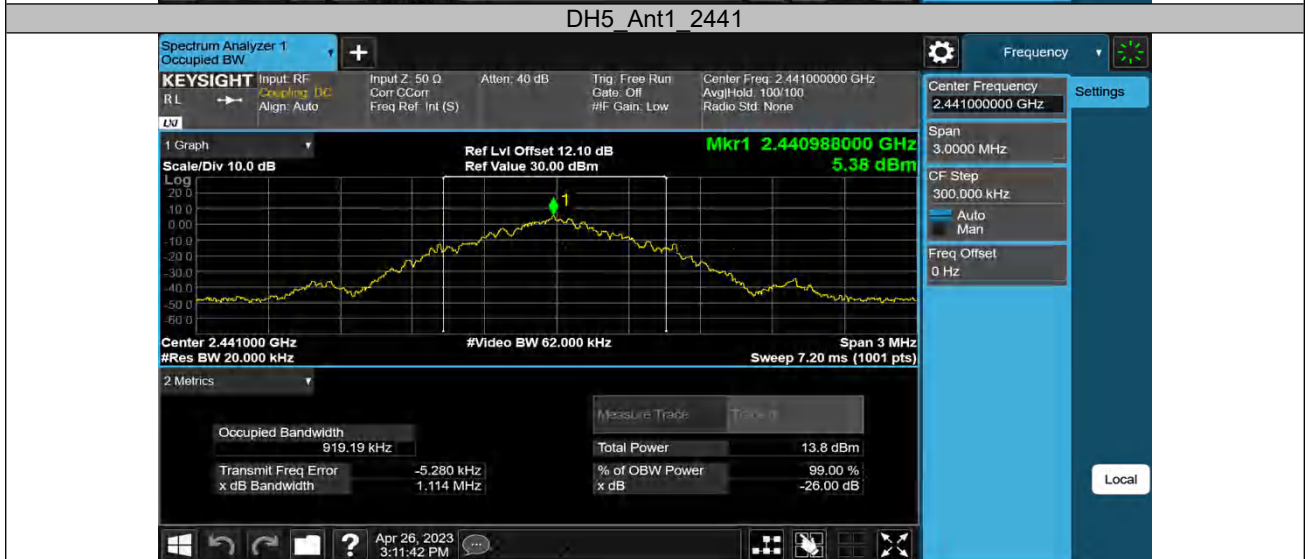
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Appendix B: Test Results of Left earbud

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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	0.87554	2401.5470	2402.4225	---	---
		2441	0.91919	2440.5351	2441.4543	---	---
		2480	0.90754	2479.5463	2480.4538	---	---
3DH5	Ant1	2402	1.1796	2401.4024	2402.5820	---	---
		2441	1.1678	2440.4107	2441.5785	---	---
		2480	1.1669	2479.4140	2480.5809	---	---



DH5_Ant1_2480



3DH5_Ant1_2402



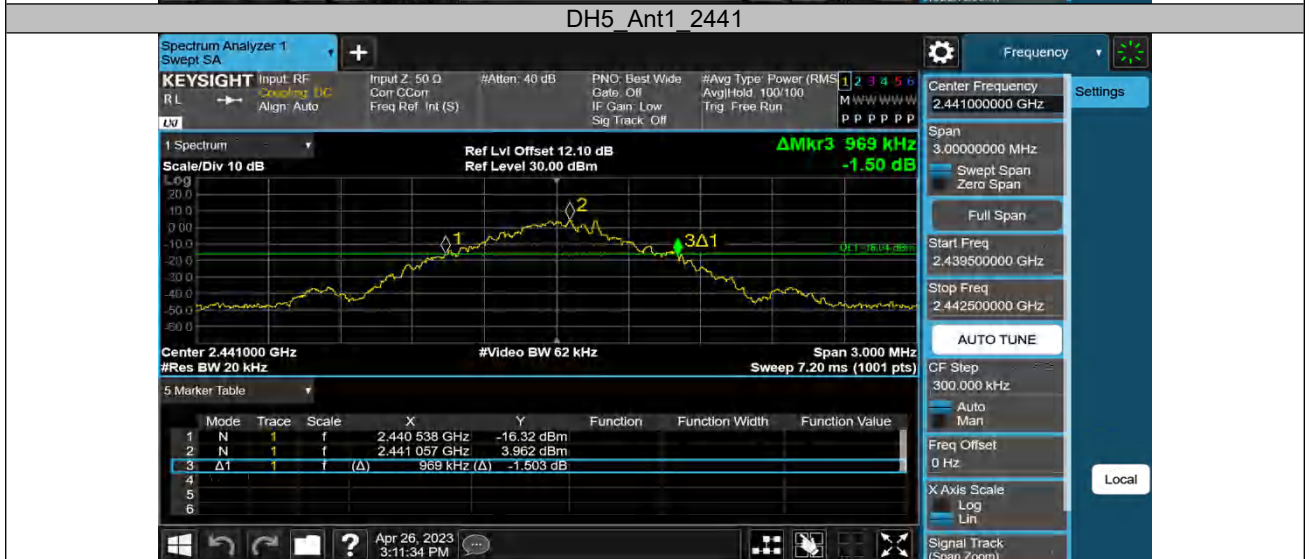
3DH5_Ant1_2441





Appendix B.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.972	2401.541	2402.513	---	---
		2441	0.969	2440.538	2441.507	---	---
		2480	0.891	2479.511	2480.402	---	---
3DH5	Ant1	2402	1.248	2401.358	2402.606	---	---
		2441	1.176	2440.424	2441.600	---	---
		2480	1.173	2479.427	2480.600	---	---



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 3.465V	2401.992	8	3.33	10
DC 3.85V	2401.987	13	5.41	
DC 4.235V	2401.986	14	5.83	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2401.987	13	5.41	10
-20	2401.985	15	6.24	
-10	2401.984	16	6.66	
0	2401.989	13	5.41	
10	2401.991	9	3.75	
20	2401.987	13	5.41	
30	2401.988	12	5.00	
40	2401.984	16	6.66	
50	2401.985	15	6.24	
55	2401.981	19	7.91	

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 3.465V	2440.995	-5	-2.05	10
DC 3.85V	2440.992	-8	-3.28	
DC 4.235V	2440.996	-4	-1.64	

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	2440.992	-8	-3.28	
10	2440.994	-6	-2.46	
20	2440.996	-4	-1.64	
30	2440.996	-4	-1.64	
40	2440.997	-3	-1.23	
50	2440.991	-9	-3.69	
55	2440.997	-3	-1.23	

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

Test result of frequency tolerance of voltage variation

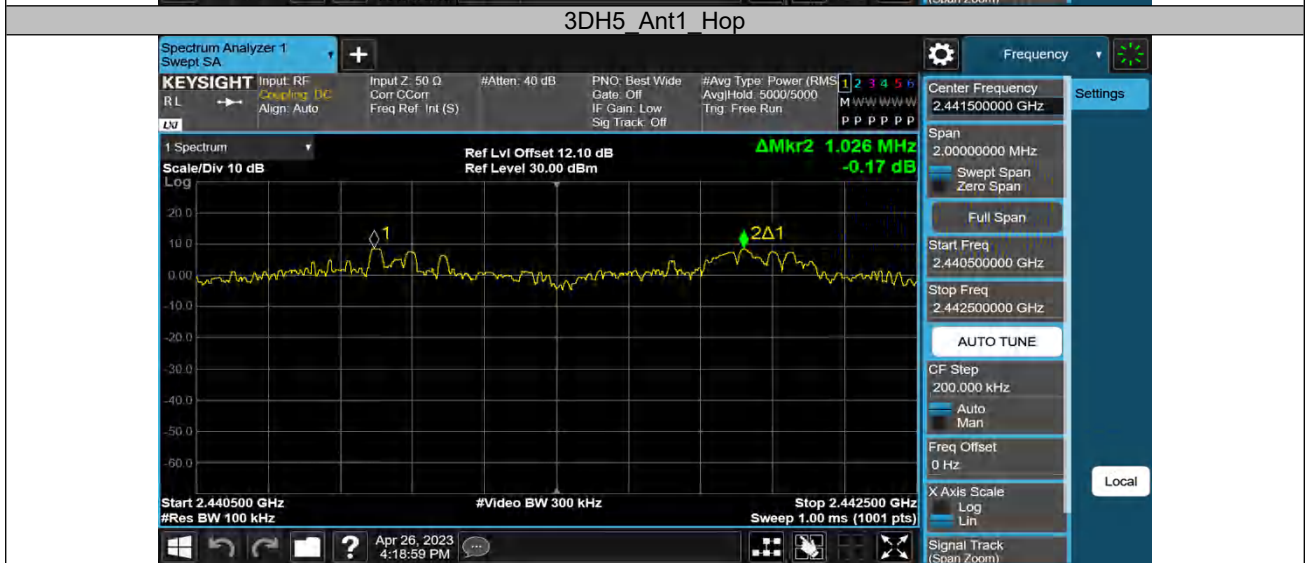
Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.465V	2479.997	-3	-1.21	10
DC 3.85V	2479.995	-5	-2.02	
DC 4.235V	2479.996	-4	-1.61	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2479.995	-5	-2.02	10
-20	2479.995	-5	-2.02	
-10	2479.993	-7	-2.82	
0	2479.994	-6	-2.42	
10	2479.993	-7	-2.82	
20	2479.995	-5	-2.02	
30	2479.996	-4	-1.61	
40	2479.996	-4	-1.61	
50	2479.993	-7	-2.82	
55	2479.995	-5	-2.02	

Appendix B.4: Test Results of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥0.972	PASS
3DH5	Ant1	Hop	1.026	≥0.832	PASS



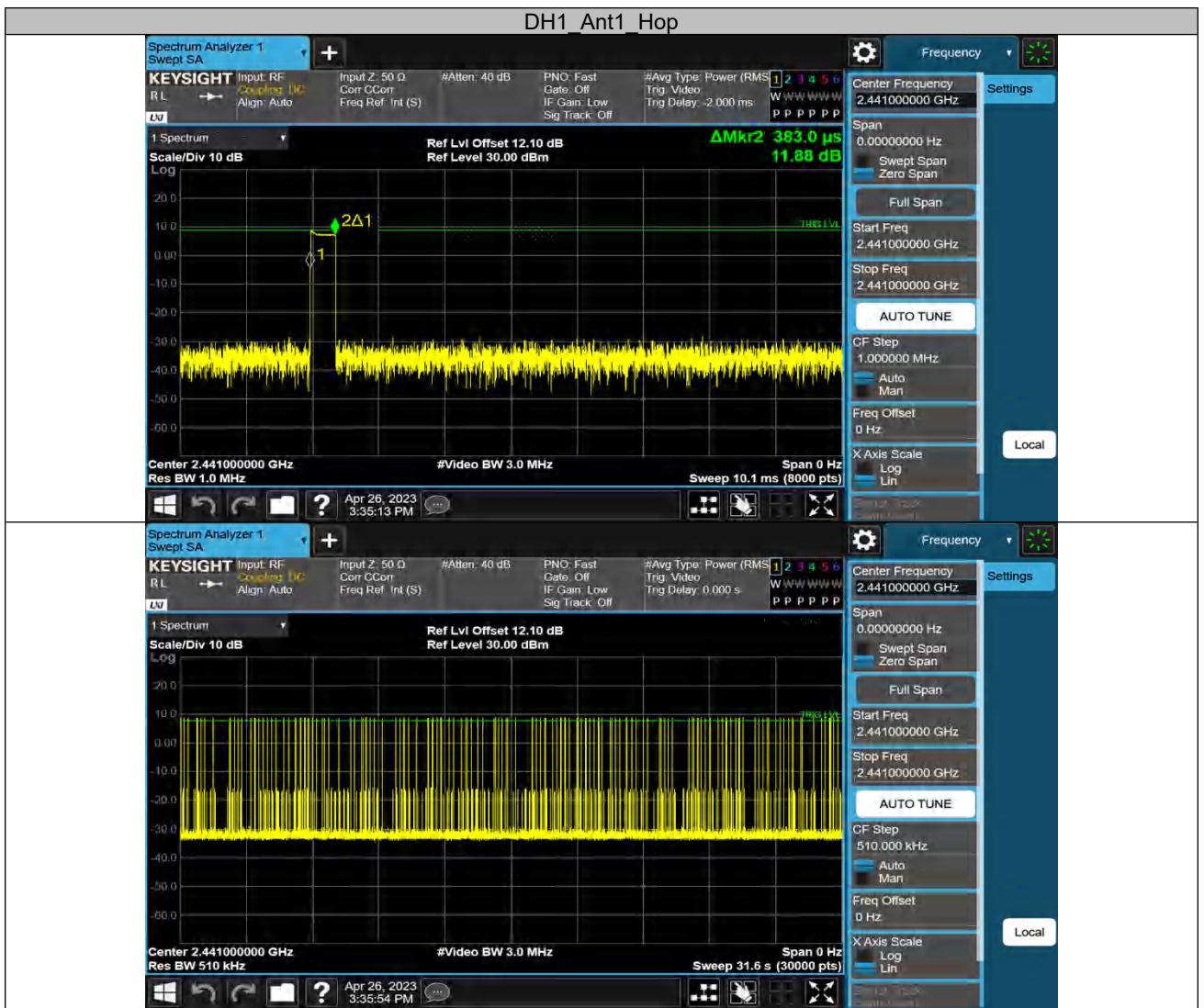
Appendix B.5: Test Results of Number of Hopping Frequency

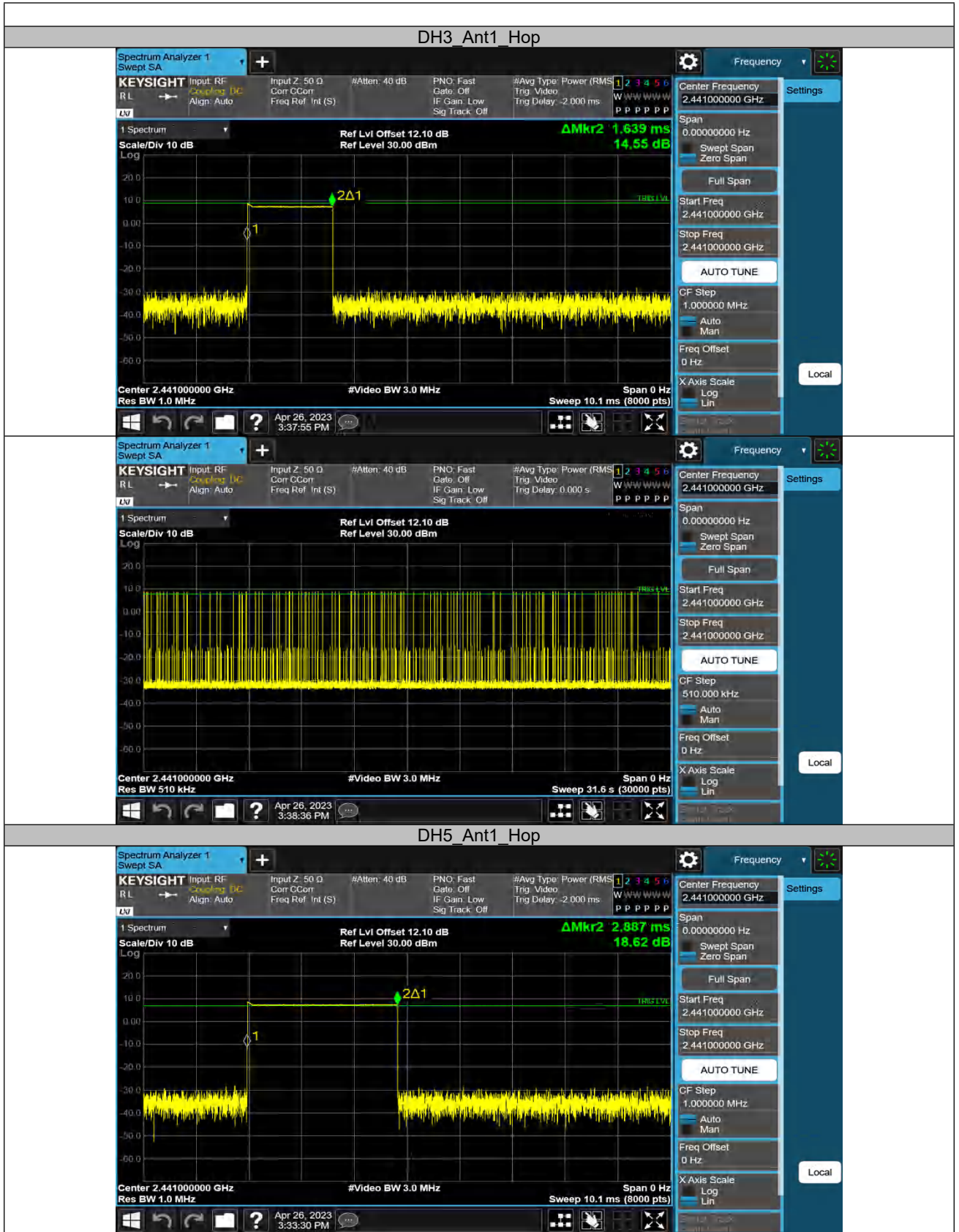
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



Appendix B.6: Test Results of Time of Occupancy

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.383	150	0.057	≤0.4	PASS
DH3	Ant1	Hop	1.639	111	0.182	≤0.4	PASS
DH5	Ant1	Hop	2.887	77	0.222	≤0.4	PASS
3DH1	Ant1	Hop	0.393	148	0.058	≤0.4	PASS
3DH3	Ant1	Hop	1.643	98	0.161	≤0.4	PASS
3DH5	Ant1	Hop	2.893	77	0.223	≤0.4	PASS

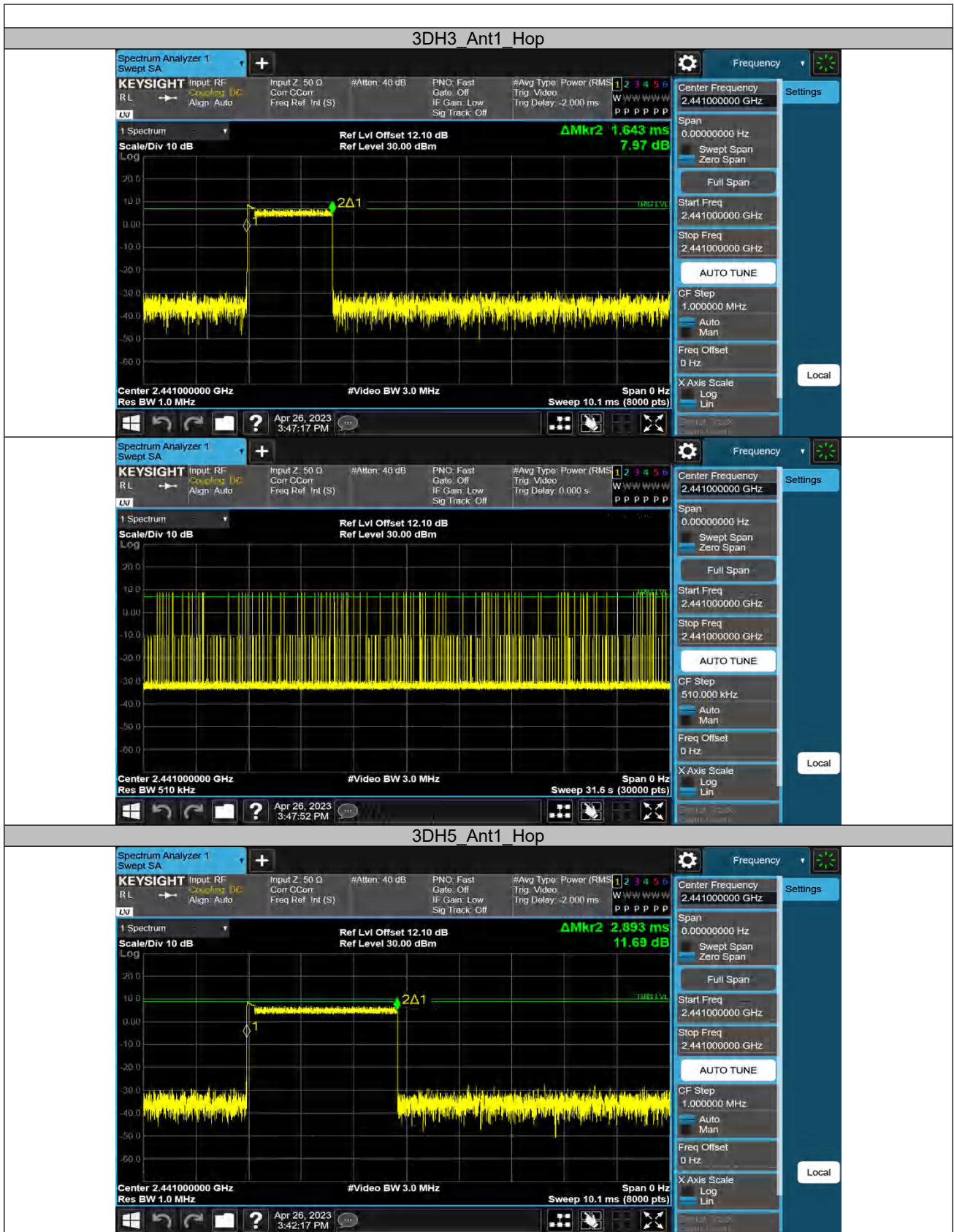






3DH1_Ant1_Hop





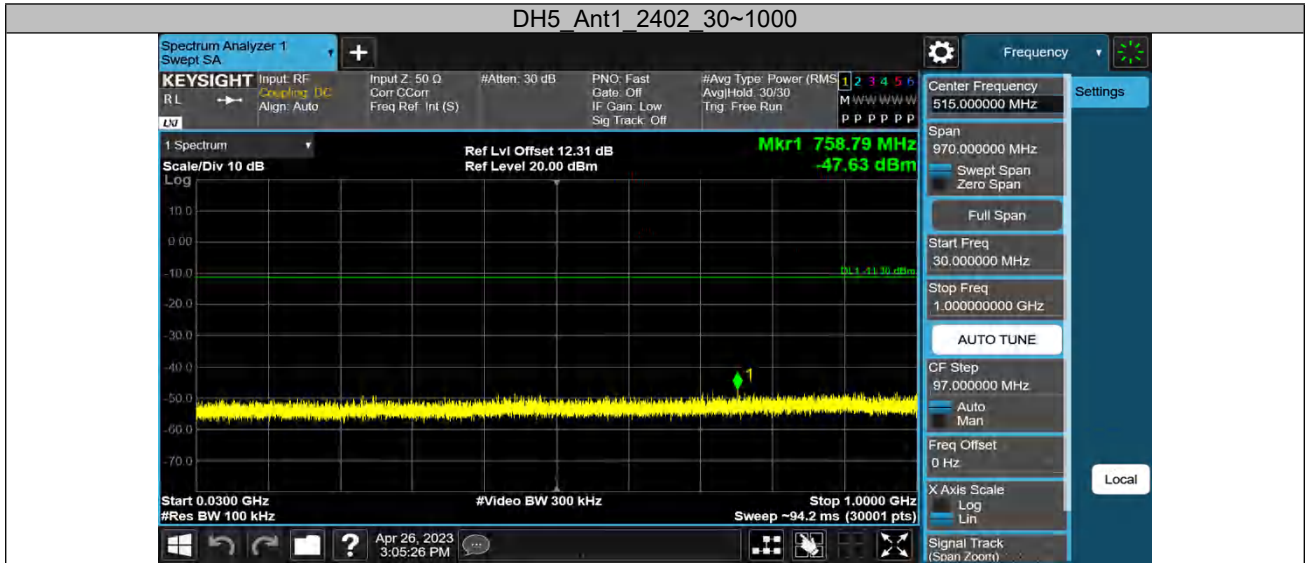


Appendix B.7: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted measurements

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	8.70	8.70	---	PASS
			30~1000	8.70	-47.63	≤-11.3	PASS
			1000~26500	8.70	-37.84	≤-11.3	PASS
		2441	Reference	7.00	7.00	---	PASS
			30~1000	7.00	-47.59	≤-13	PASS
			1000~26500	7.00	-38.18	≤-13	PASS
		2480	Reference	6.67	6.67	---	PASS
			30~1000	6.67	-47.5	≤-13.33	PASS
			1000~26500	6.67	-38.75	≤-13.33	PASS
3DH5	Ant1	2402	Reference	2.48	2.48	---	PASS
			30~1000	2.48	-46.42	≤-17.52	PASS
			1000~26500	2.48	-38.44	≤-17.52	PASS
		2441	Reference	2.06	2.06	---	PASS
			30~1000	2.06	-47.38	≤-17.94	PASS
			1000~26500	2.06	-39.39	≤-17.94	PASS
		2480	Reference	1.77	1.77	---	PASS
			30~1000	1.77	-47.27	≤-18.23	PASS
			1000~26500	1.77	-38.86	≤-18.23	PASS

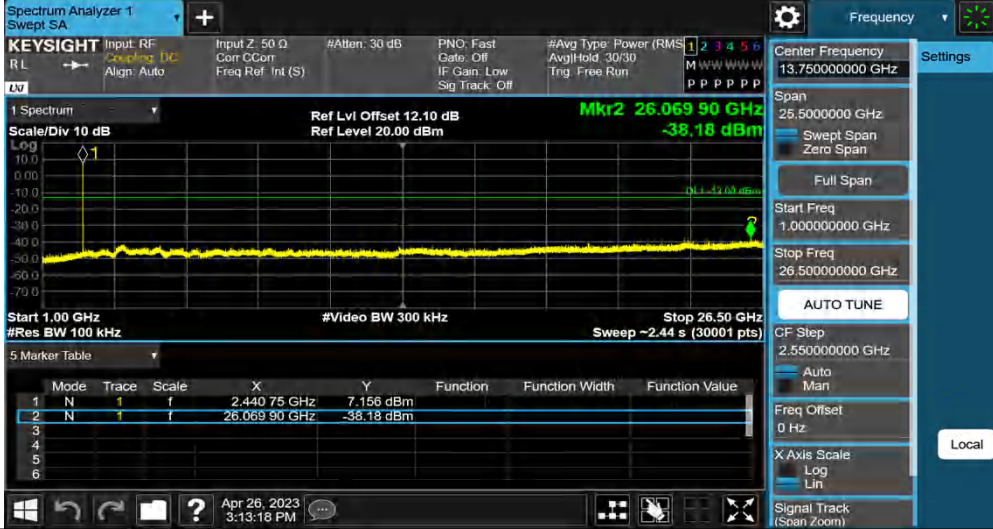




DH5_Ant1_2441_30~1000



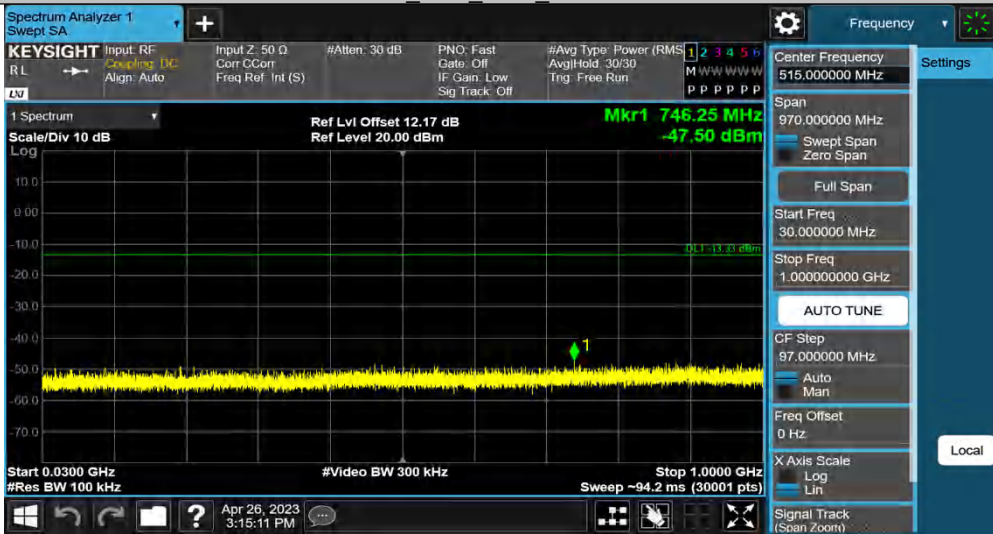
DH5_Ant1_2441_1000~26500



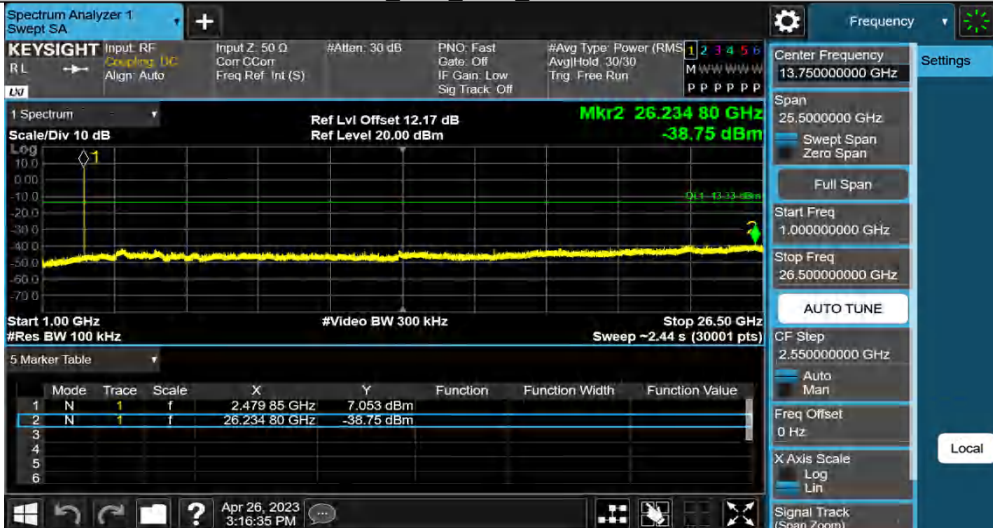
DH5_Ant1_2480_0~Reference



DH5 Ant1 2480 30~1000



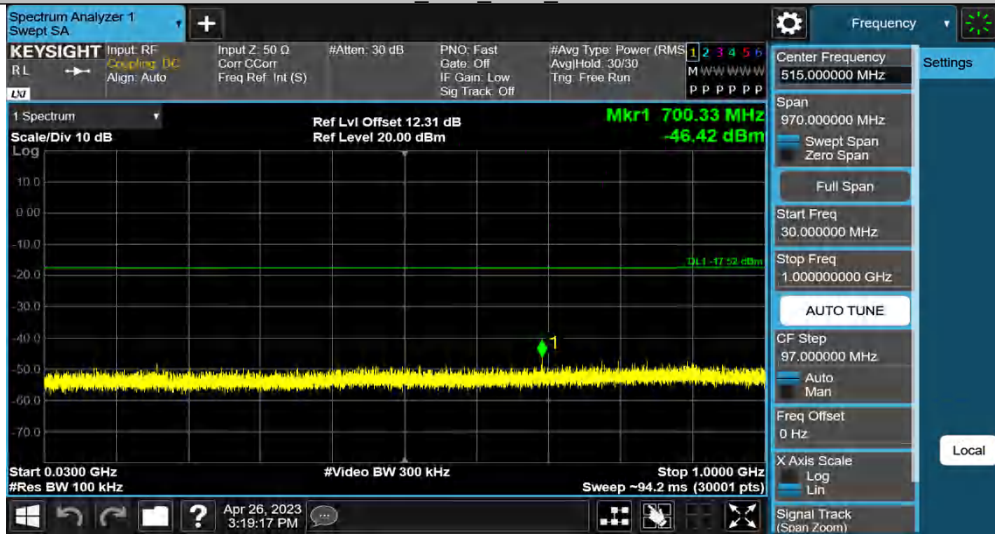
DH5 Ant1 2480 1000~26500



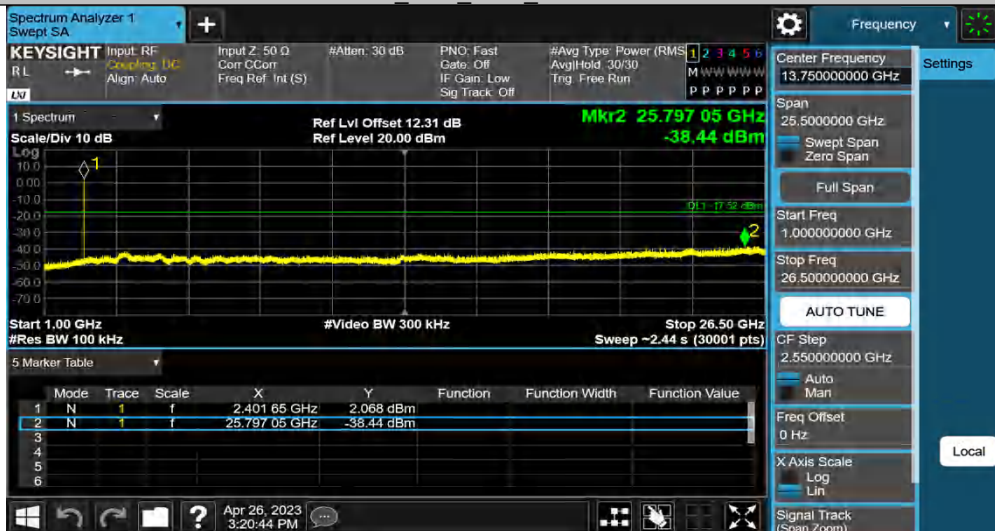
3DH5 Ant1 2402 0~Reference



3DH5_Ant1_2402_30~1000



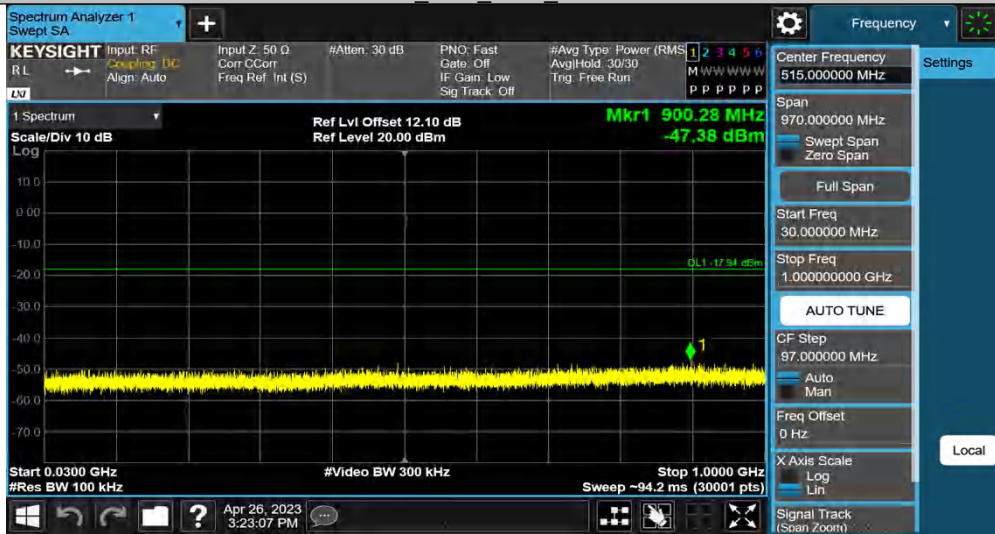
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5 Ant1 2441 30~1000



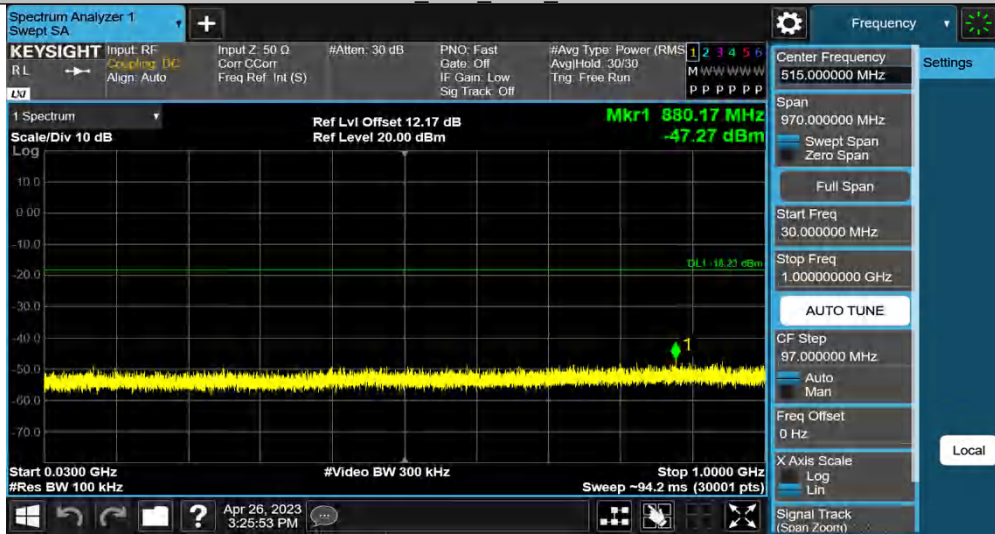
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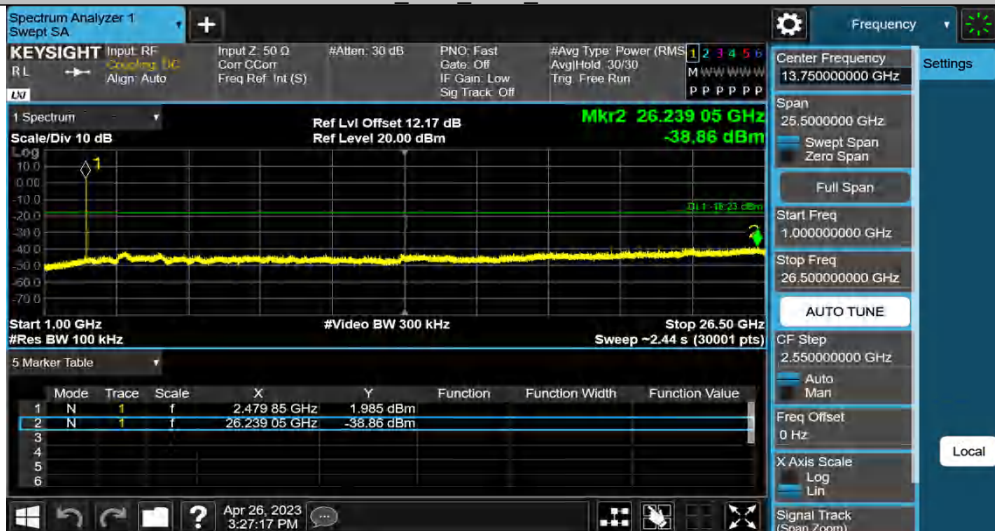
3DH5 Ant1 2480 0~Reference



3DH5 Ant1 2480 30~1000

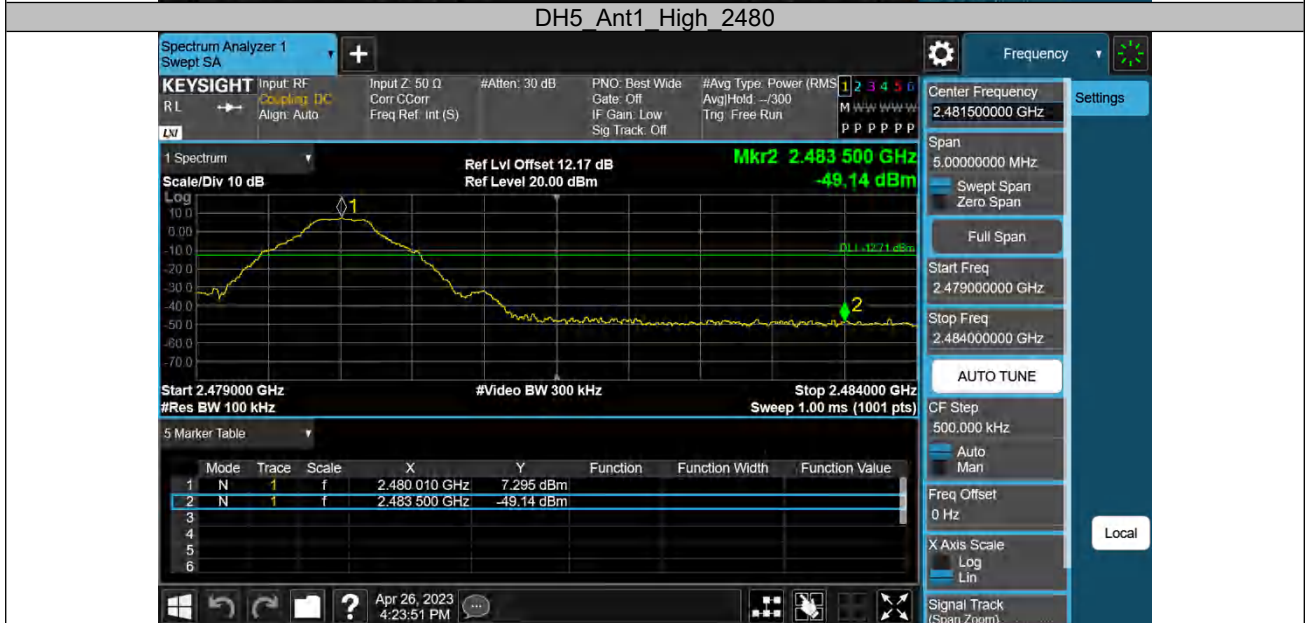
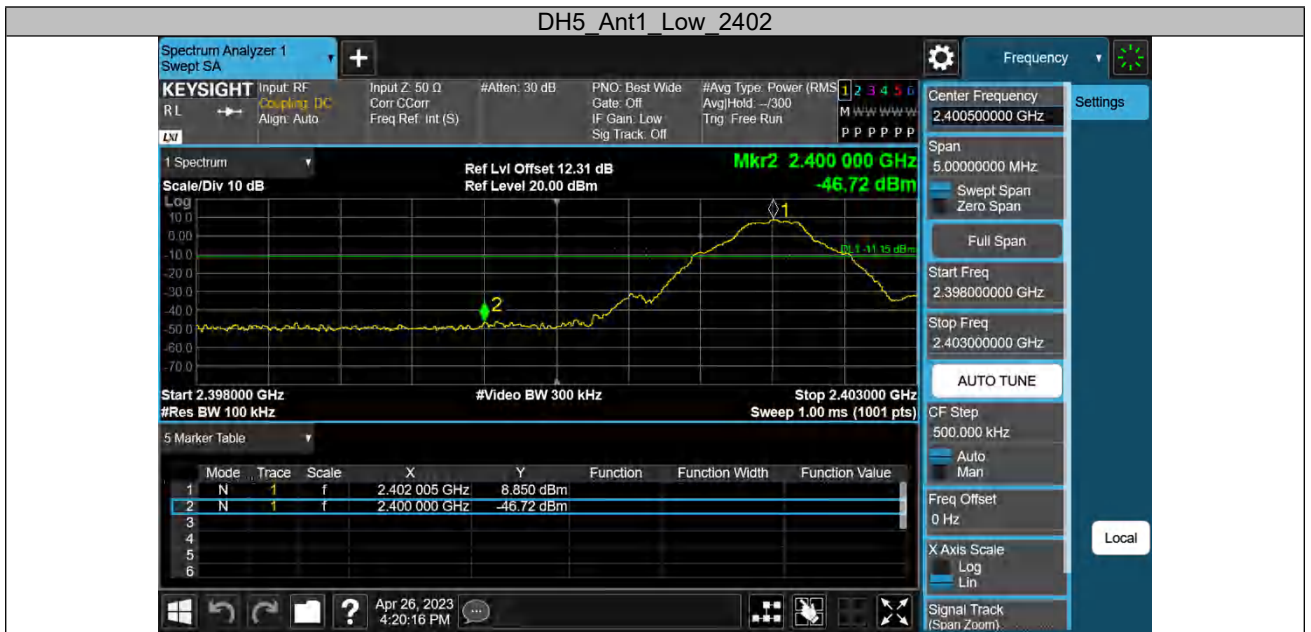


3DH5 Ant1 2480 1000~26500

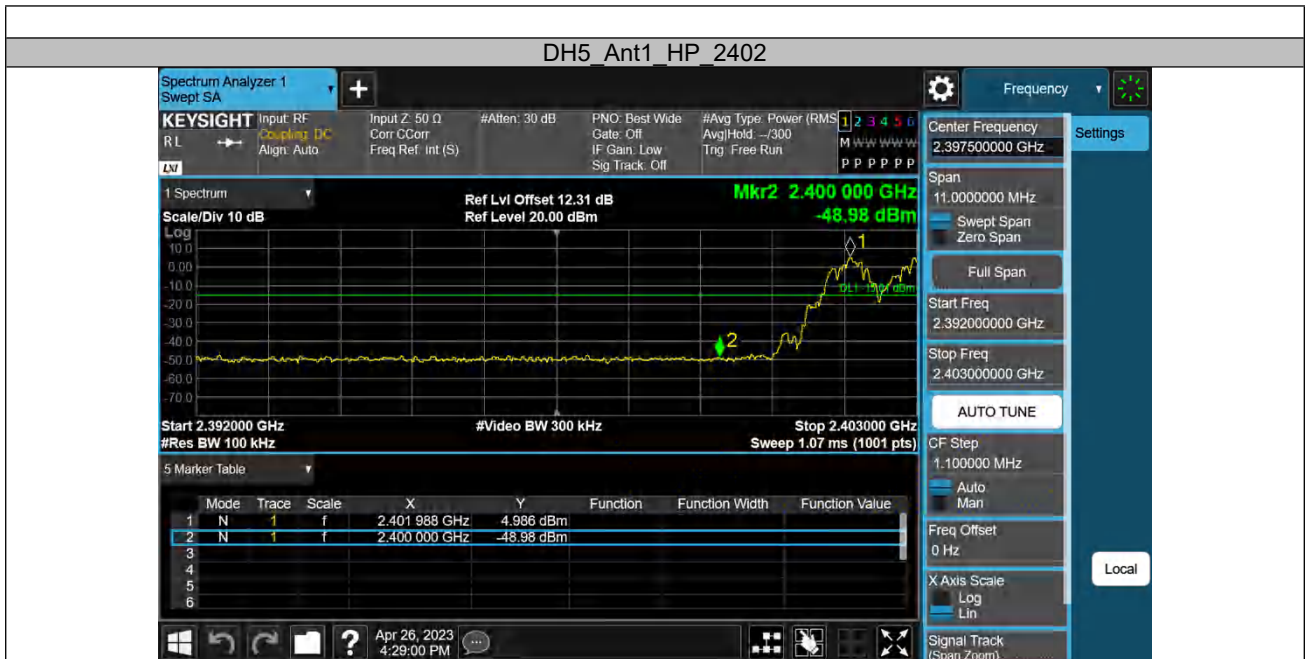


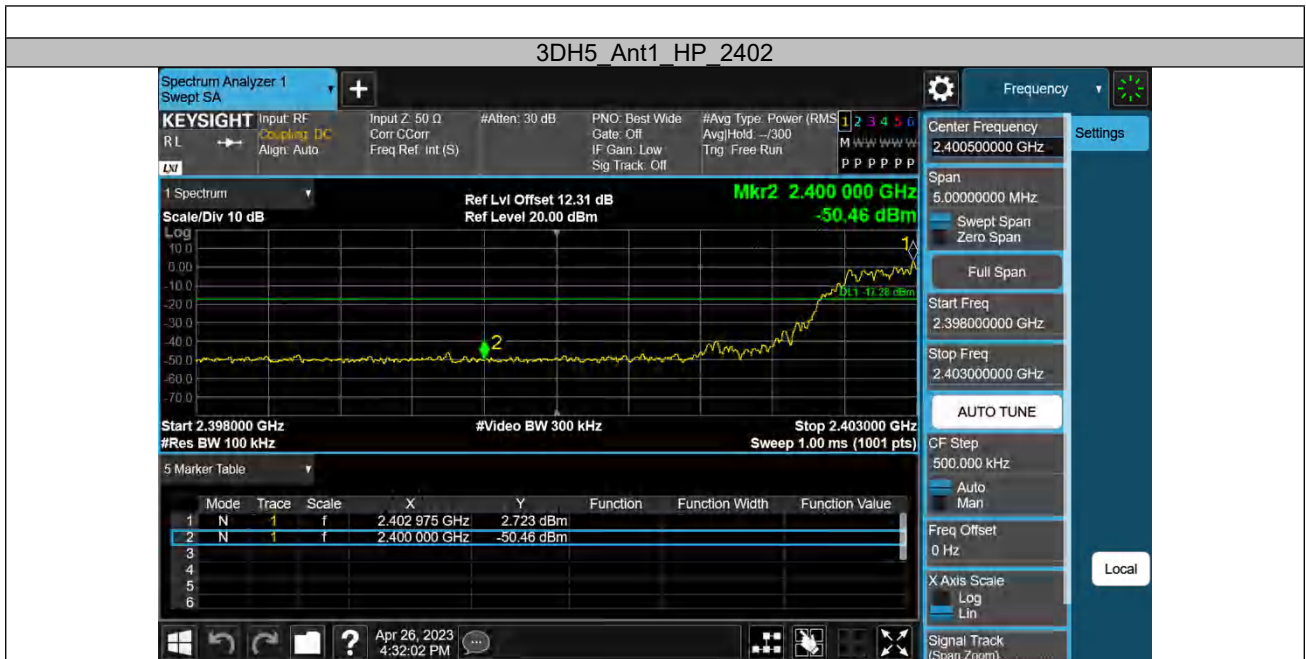
Band edge measurements

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	8.85	-46.72	≤-11.15	PASS
DH5	Ant1	High	2480	7.30	-49.14	≤-12.71	PASS
3DH5	Ant1	High	2402	8.53	-45.89	≤-11.47	PASS
3DH5	Ant1	High	2480	8.52	-49.02	≤-11.48	PASS
DH5	Ant1	Hopping	2402	4.99	-48.98	≤-15.01	PASS
DH5	Ant1	Hopping	2480	6.74	-49.31	≤-13.26	PASS
3DH5	Ant1	Hopping	2402	2.72	-50.46	≤-17.28	PASS
3DH5	Ant1	Hopping	2480	7.16	-49.67	≤-12.84	PASS









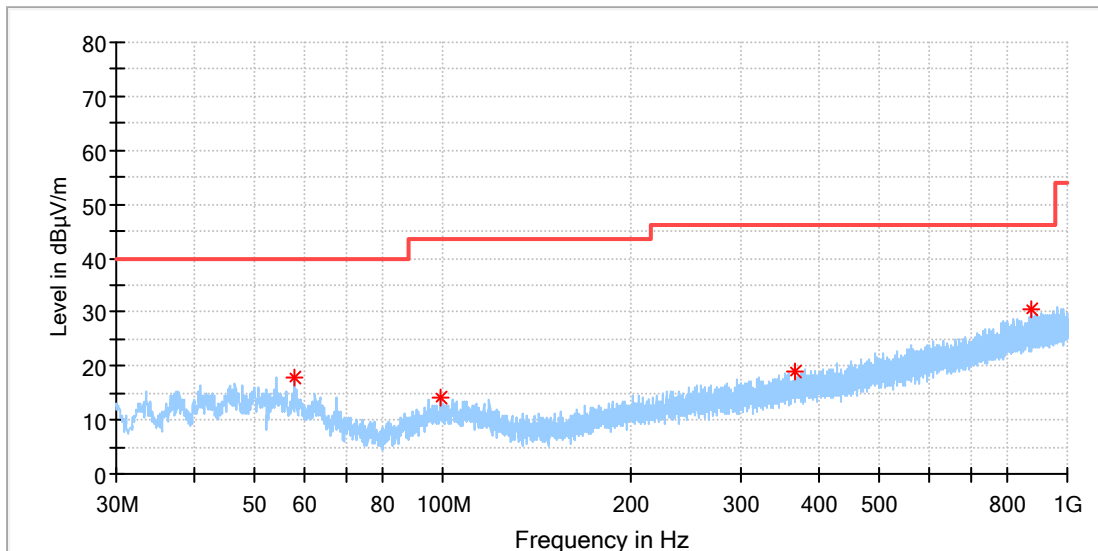
Appendix B.8: Test Results of Radiated Spurious Emissions

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:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

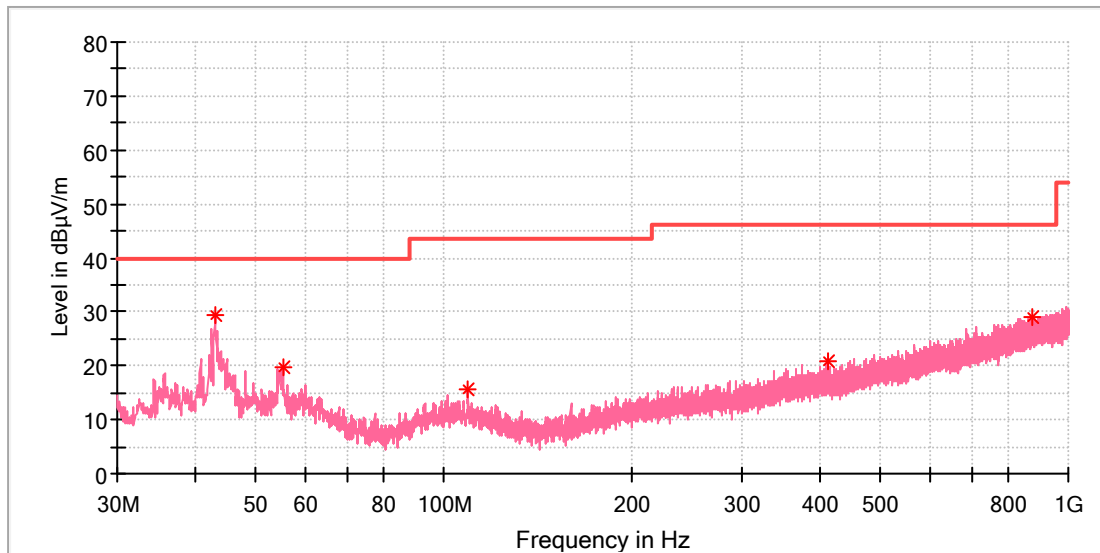


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
57.839000	17.88	40.00	22.12	100.0	H	201.0	-18.7
99.209500	13.98	43.50	29.52	100.0	H	286.0	-19.1
365.280500	18.91	46.00	27.09	100.0	H	349.0	-14.5
877.780000	30.53	46.00	15.47	100.0	H	105.0	-5.2

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

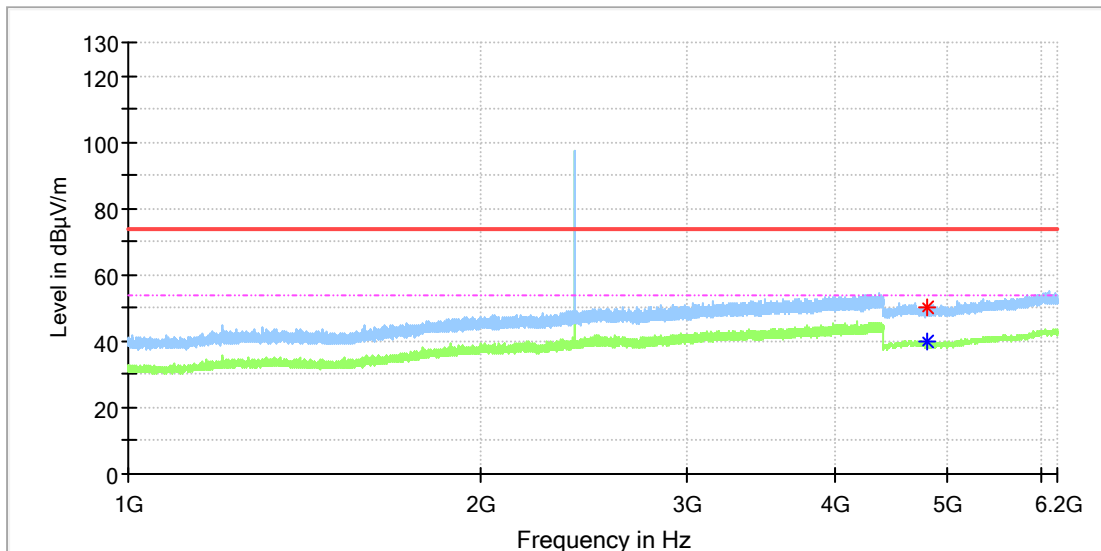
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
42.998000	29.45	40.00	10.55	100.0	V	315.0	-19.3
55.220000	19.74	40.00	20.26	100.0	V	30.0	-18.5
109.540000	15.47	43.50	28.03	100.0	V	257.0	-19.0
411.210000	20.94	46.00	25.06	100.0	V	282.0	-13.5
873.366500	28.98	46.00	17.02	100.0	V	112.0	-5.2

1GHz - 18GHz

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

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

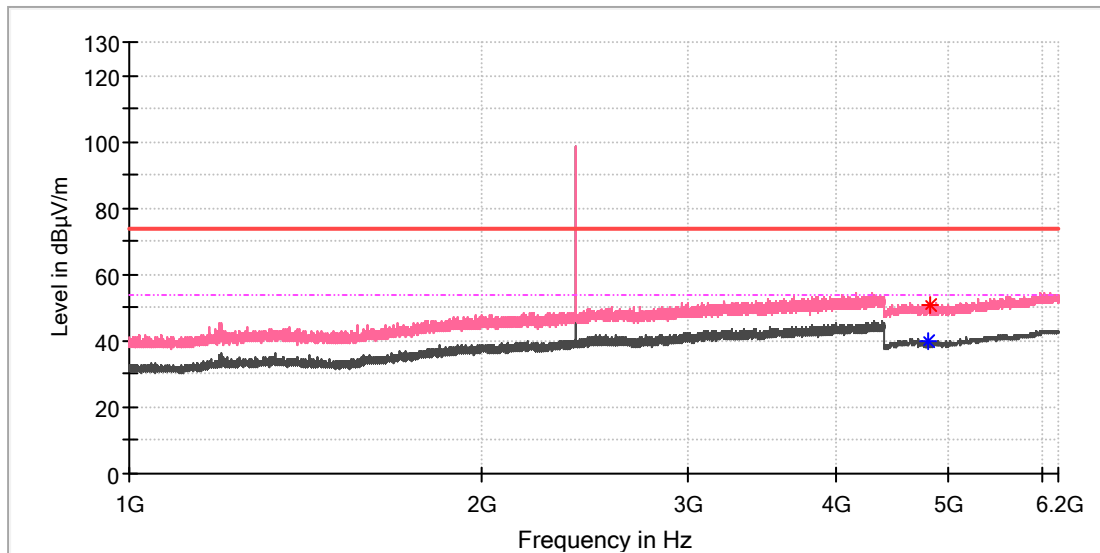


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	40.14	54.00	13.86	100.0	H	237.0	11.8
4809.000000	50.23	---	74.00	23.77	100.0	H	162.0	11.8

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_Low channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

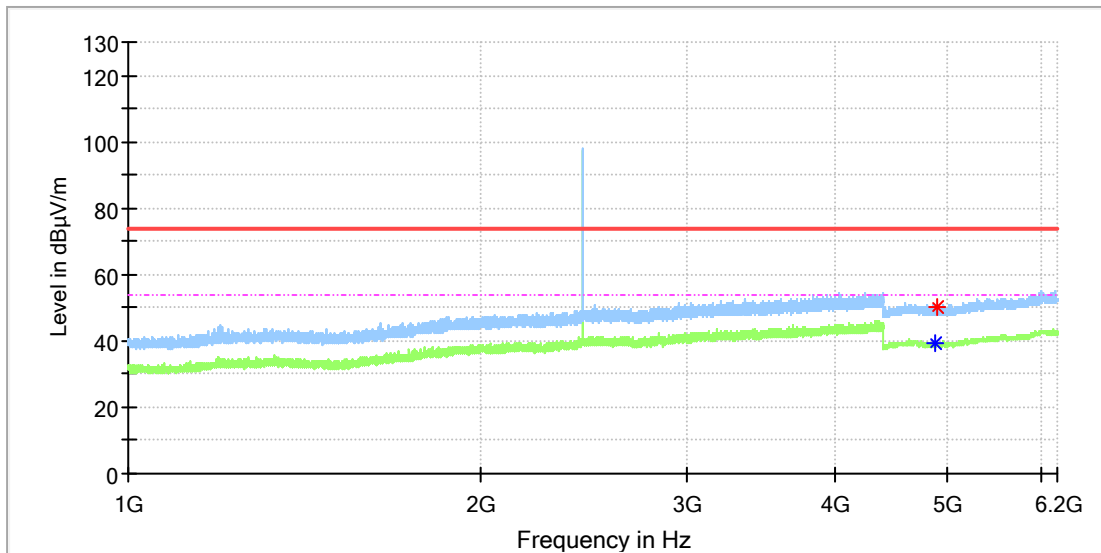


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4809.500000	---	39.66	54.00	14.34	100.0	V	117.0	11.8
4813.500000	50.89	---	74.00	23.11	100.0	V	72.0	11.8

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_Mid channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

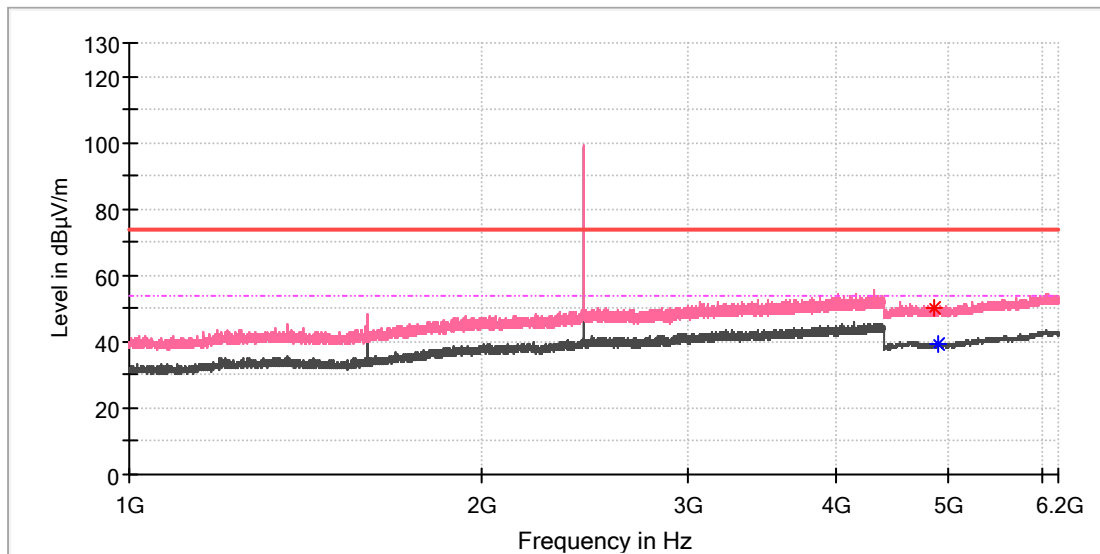


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	---	39.51	54.00	14.49	100.0	H	34.0	11.8
4892.500000	50.12	---	74.00	23.88	100.0	H	111.0	11.8

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_Mid channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

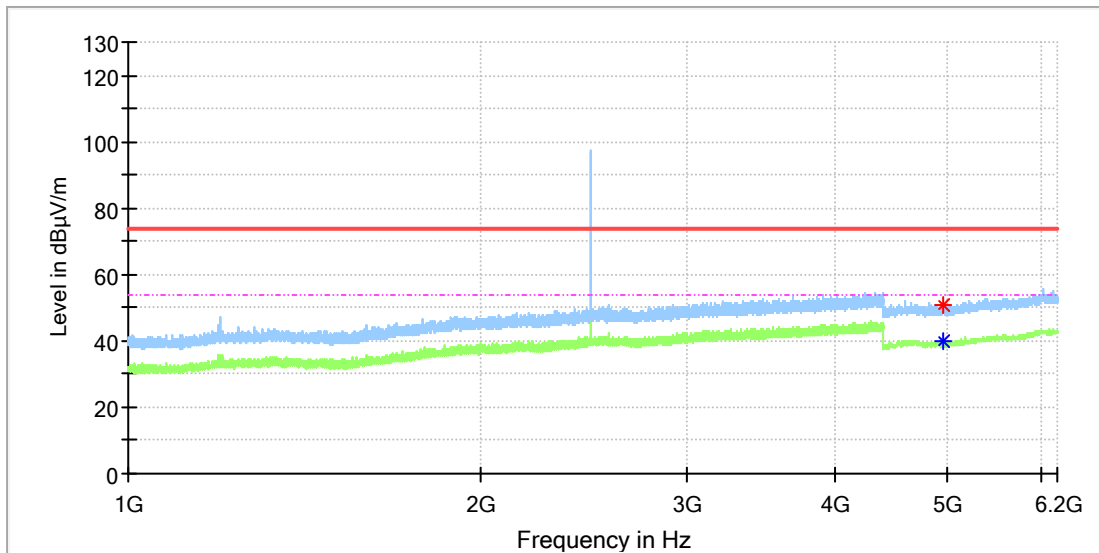


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4862.500000	50.18	---	74.00	23.82	100.0	V	139.0	11.8
4904.500000	---	39.30	54.00	14.70	100.0	V	304.0	11.8

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_High channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

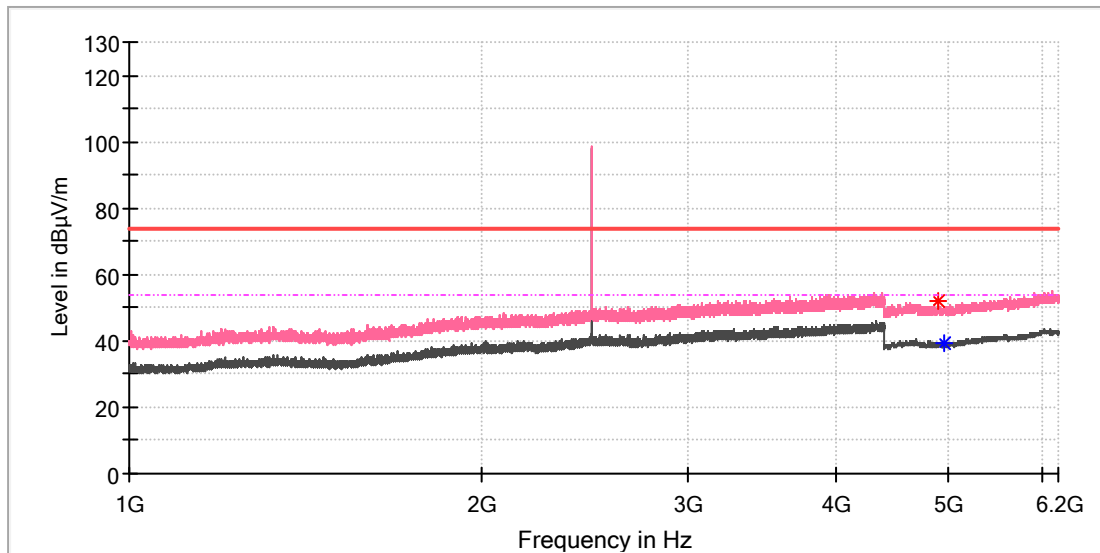


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4949.500000	50.79	---	74.00	23.21	100.0	H	172.0	11.8
4963.000000	---	39.70	54.00	14.30	100.0	H	1.0	11.8

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_High channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

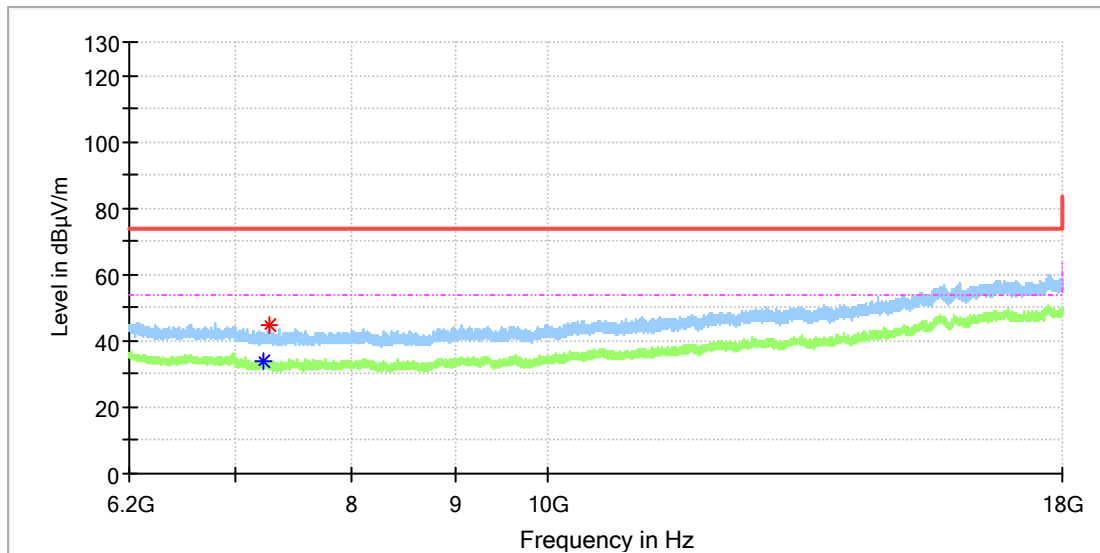


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4889.500000	51.90	---	74.00	22.10	100.0	V	37.0	11.8
4960.000000	---	39.57	54.00	14.43	100.0	V	100.0	11.8

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_Low channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

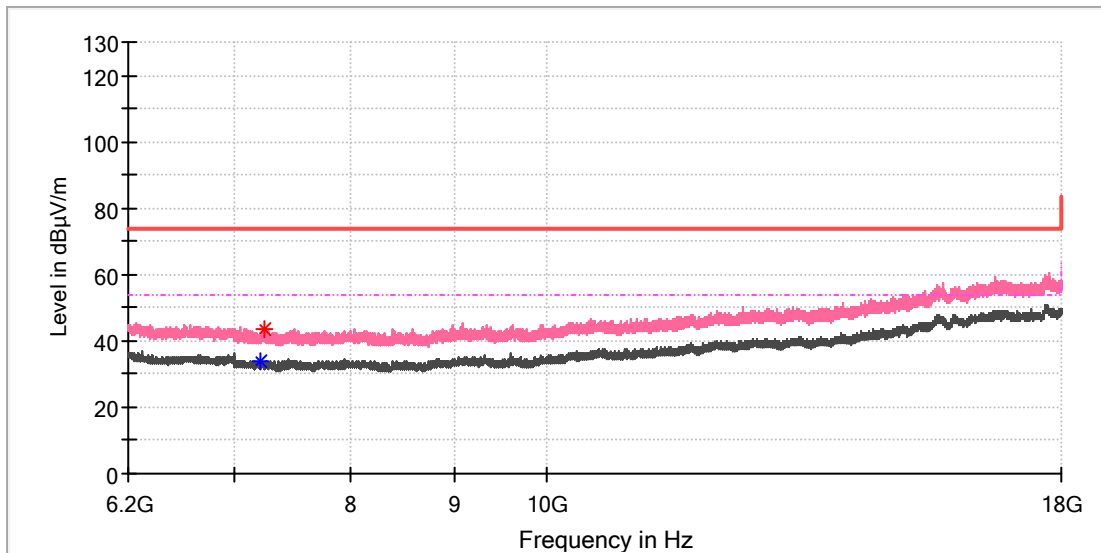


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7226.600000	---	33.74	54.00	20.26	100.0	H	319.0	8.7
7284.125000	44.73	---	74.00	29.27	100.0	H	186.0	8.4

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_Low channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

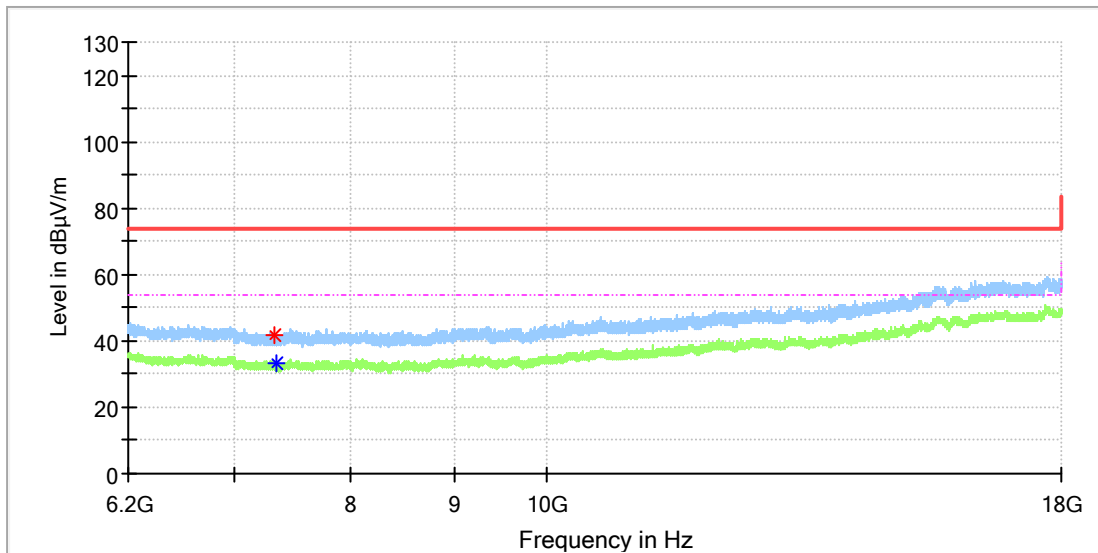


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7217.258333	---	33.70	54.00	20.30	100.0	V	127.0	8.7
7240.366667	43.46	---	74.00	30.54	100.0	V	42.0	8.6

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_Mid channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

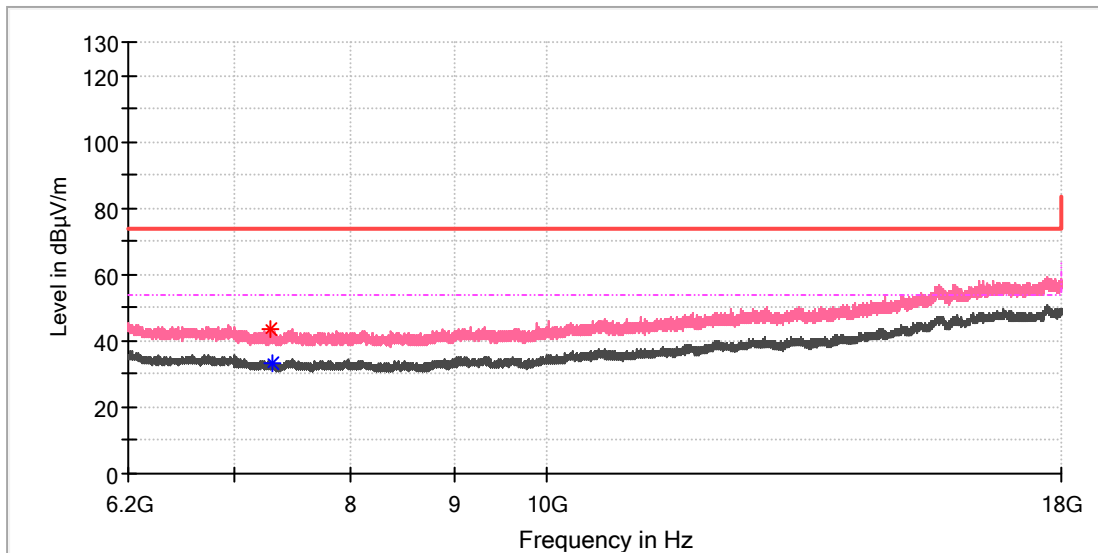


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7324.441667	41.70	---	74.00	32.30	100.0	H	295.0	8.2
7337.716667	---	33.30	54.00	20.70	100.0	H	295.0	8.1

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

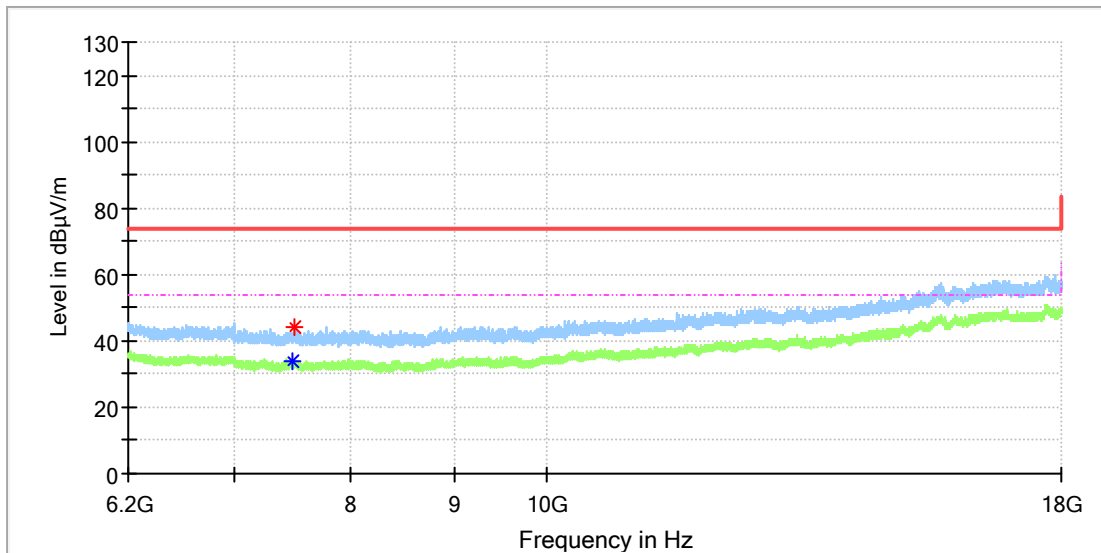


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7285.600000	43.50	---	74.00	30.50	100.0	V	126.0	8.4
7313.133333	---	33.37	54.00	20.63	100.0	V	103.0	8.2

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_High channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

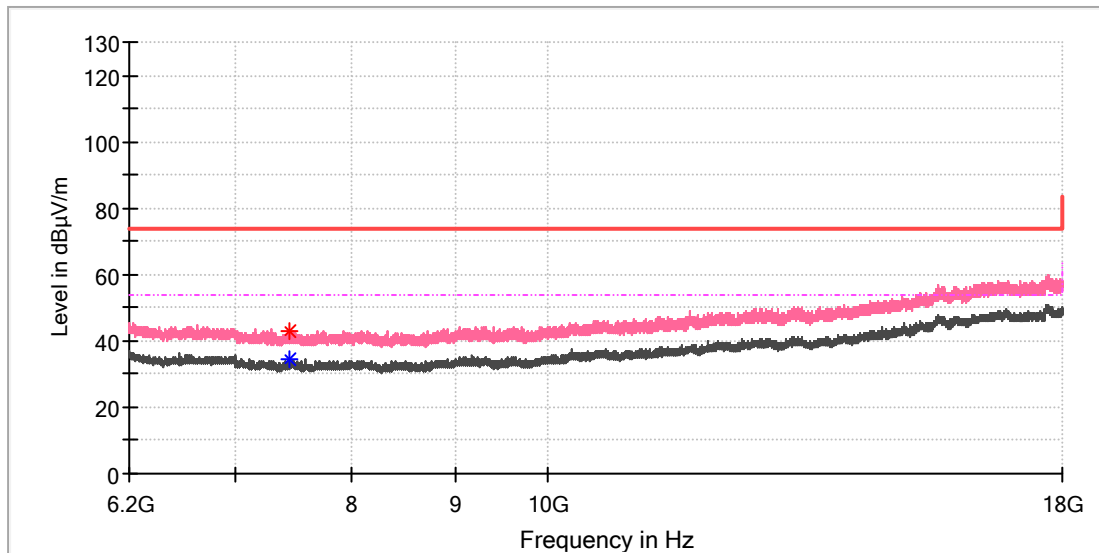


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7470.466667	---	34.02	54.00	19.98	100.0	H	137.0	8.6
7499.966667	43.96	---	74.00	30.04	100.0	H	249.0	8.7

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



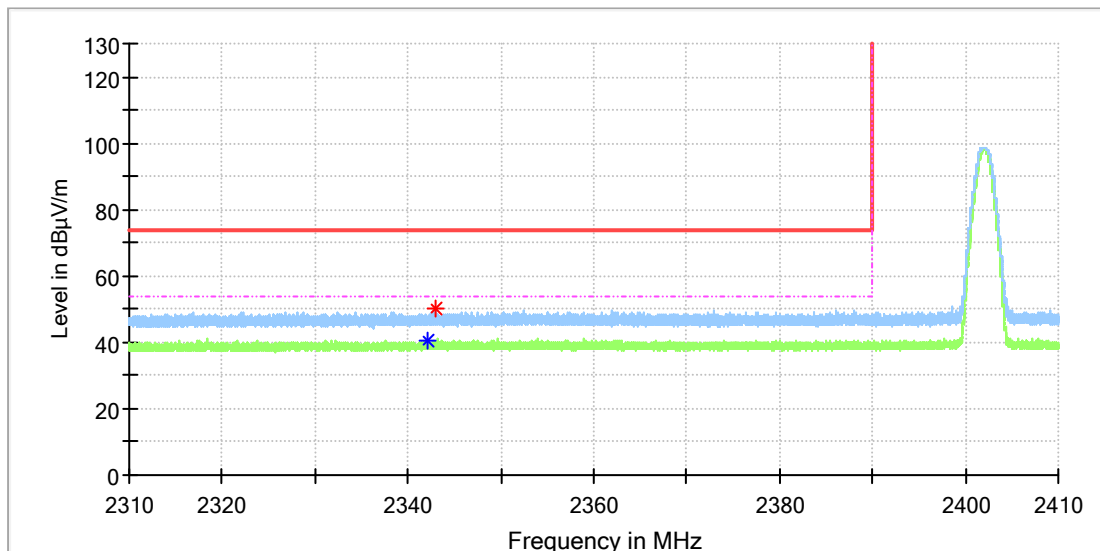
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7438.016667	42.64	---	74.00	31.36	100.0	V	31.0	8.4
7439.491667	---	34.41	54.00	19.59	100.0	V	183.0	8.4

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

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

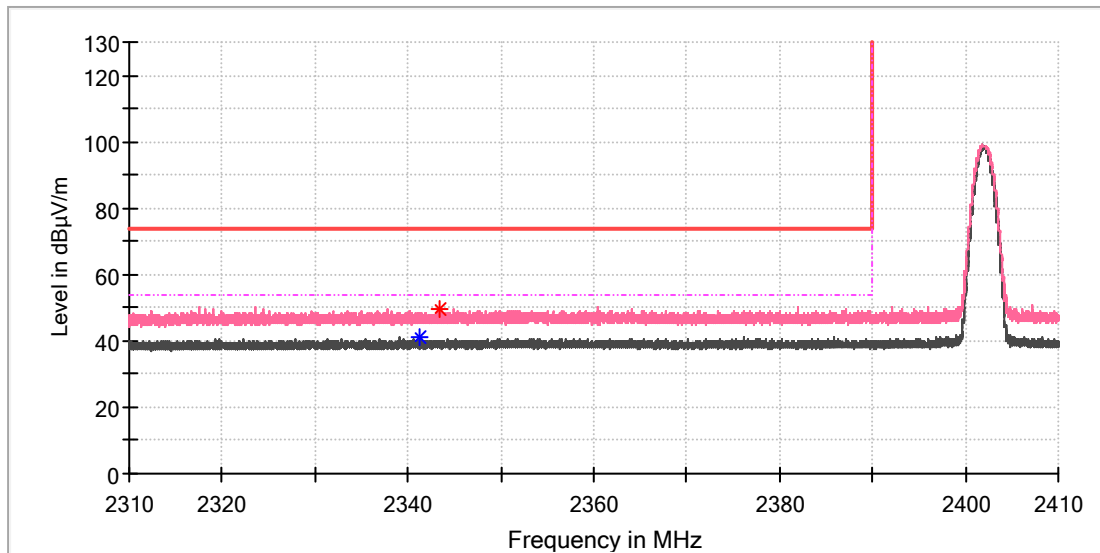


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2342.190000	---	40.58	54.00	13.42	100.0	H	0.0	6.8
2343.025000	49.94	---	74.00	24.06	100.0	H	64.0	6.8

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

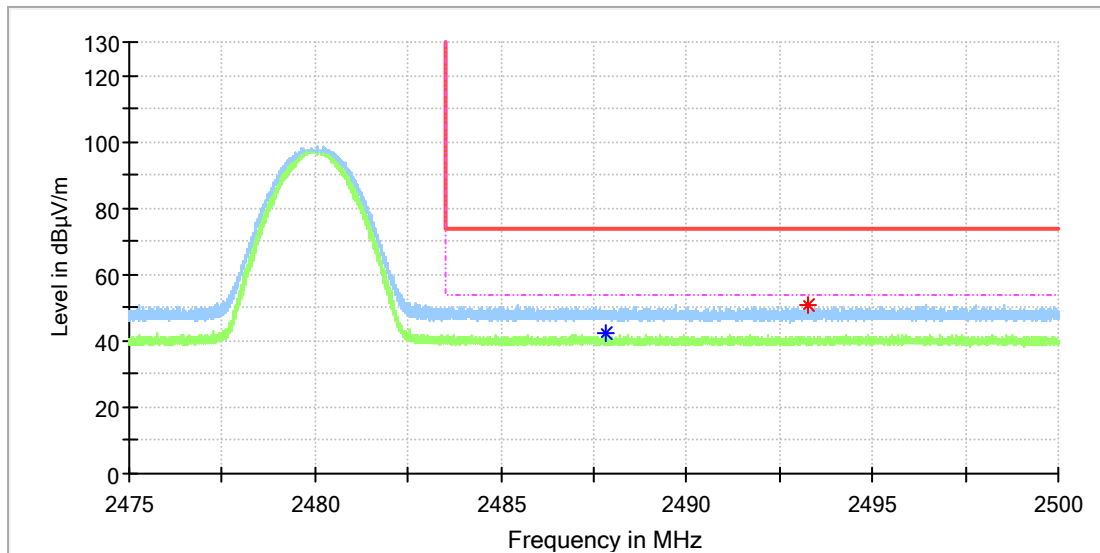


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2341.305000	---	41.04	54.00	12.96	100.0	V	206.0	6.8
2343.490000	49.55	---	74.00	24.45	100.0	V	148.0	6.9

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

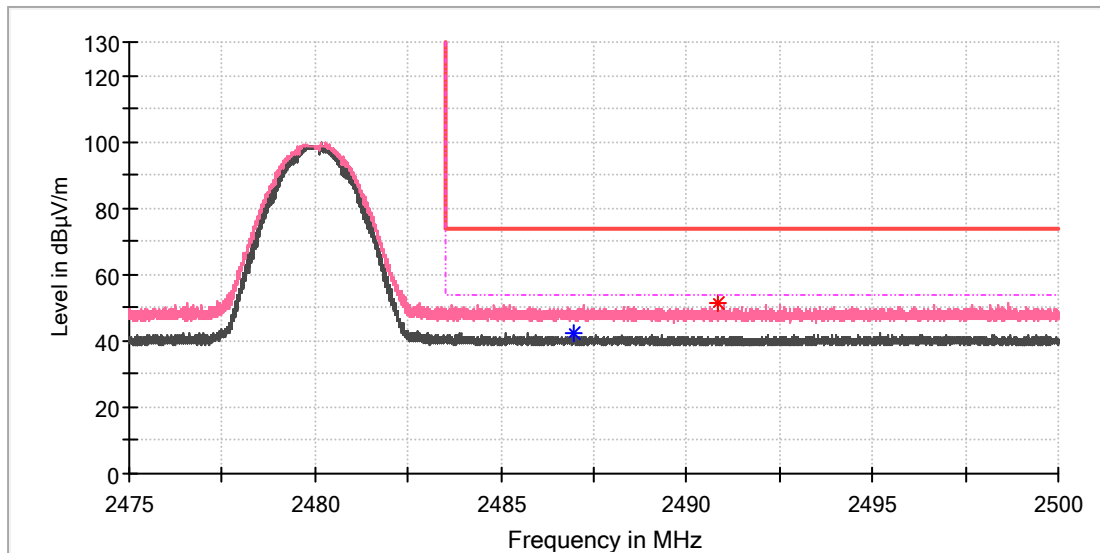


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.825000	---	42.08	54.00	11.92	100.0	H	18.0	7.4
2493.243750	50.98	---	74.00	23.02	100.0	H	26.0	7.4

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

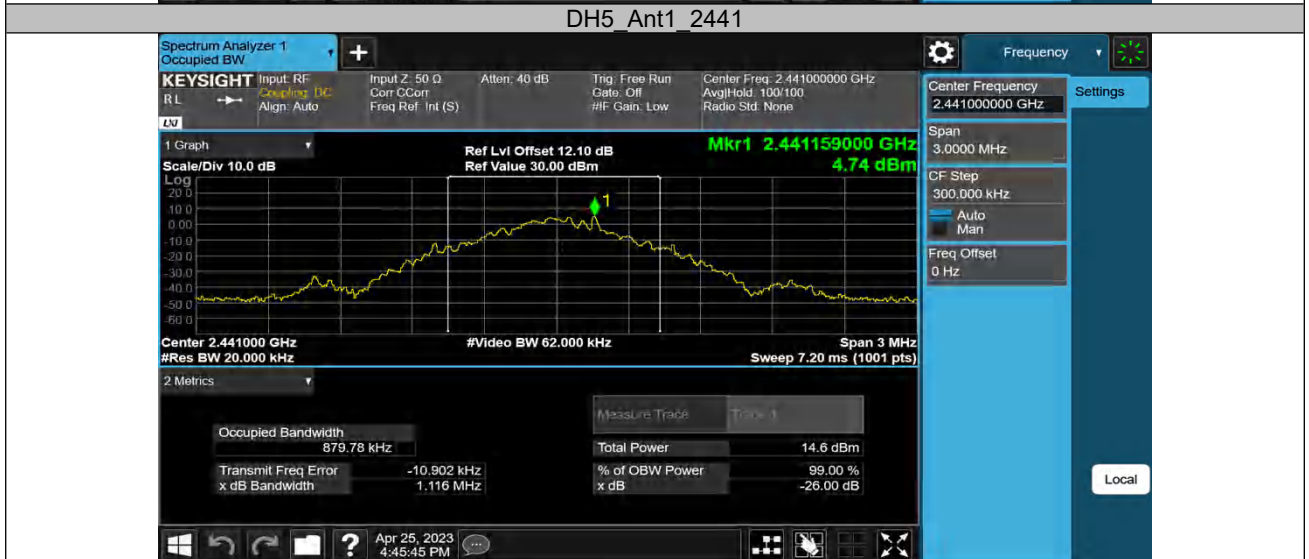
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.980000	---	42.43	54.00	11.57	100.0	V	67.0	7.4
2490.836250	51.14	---	74.00	22.86	100.0	V	252.0	7.4

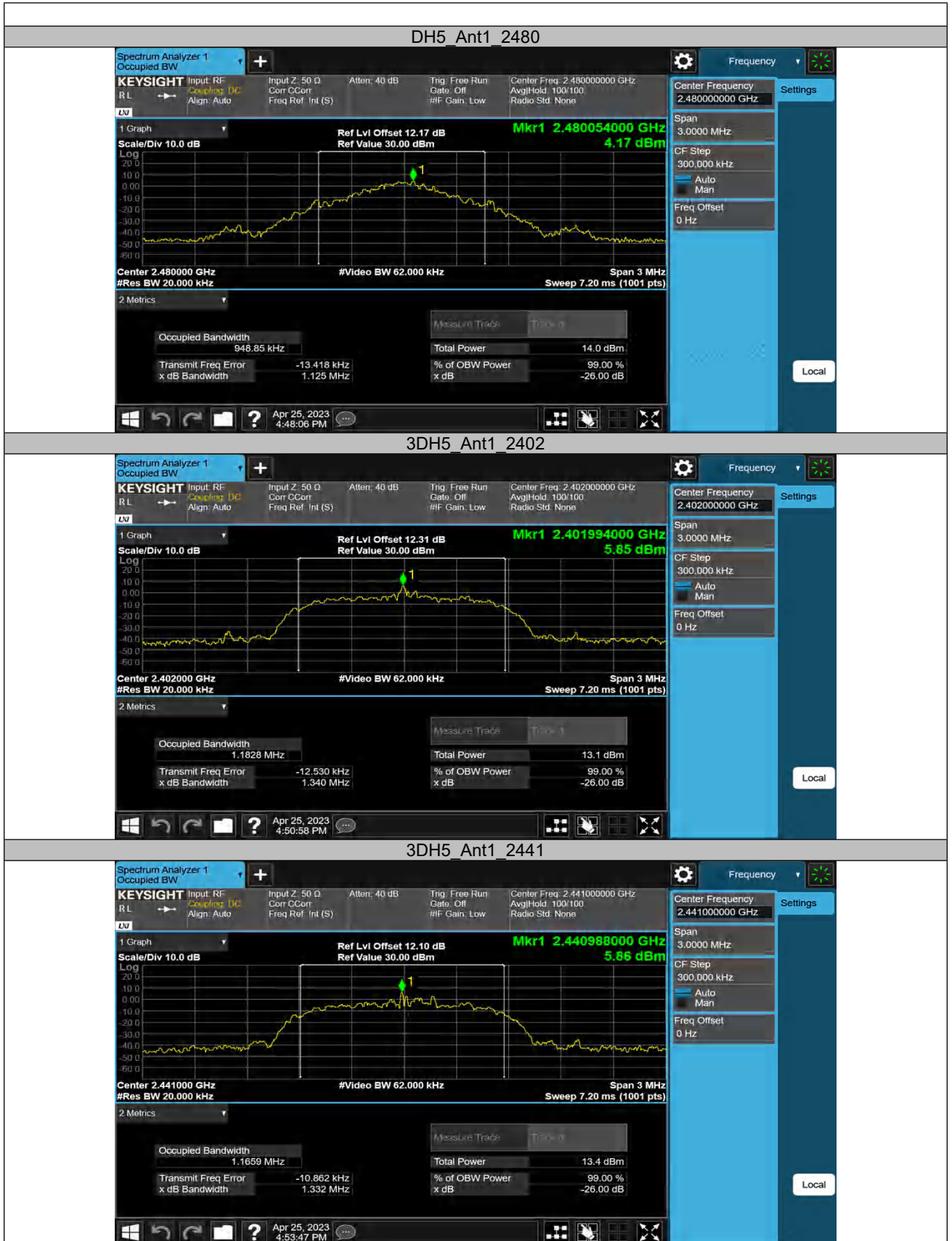
Appendix C: Test Results of Right earbud

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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	0.91190	2401.5210	2402.4329	---	---
		2441	0.87978	2440.5492	2441.4290	---	---
		2480	0.94885	2479.5122	2480.4610	---	---
3DH5	Ant1	2402	1.1828	2401.3961	2402.5789	---	---
		2441	1.1659	2440.4062	2441.5721	---	---
		2480	1.1607	2479.4113	2480.5720	---	---

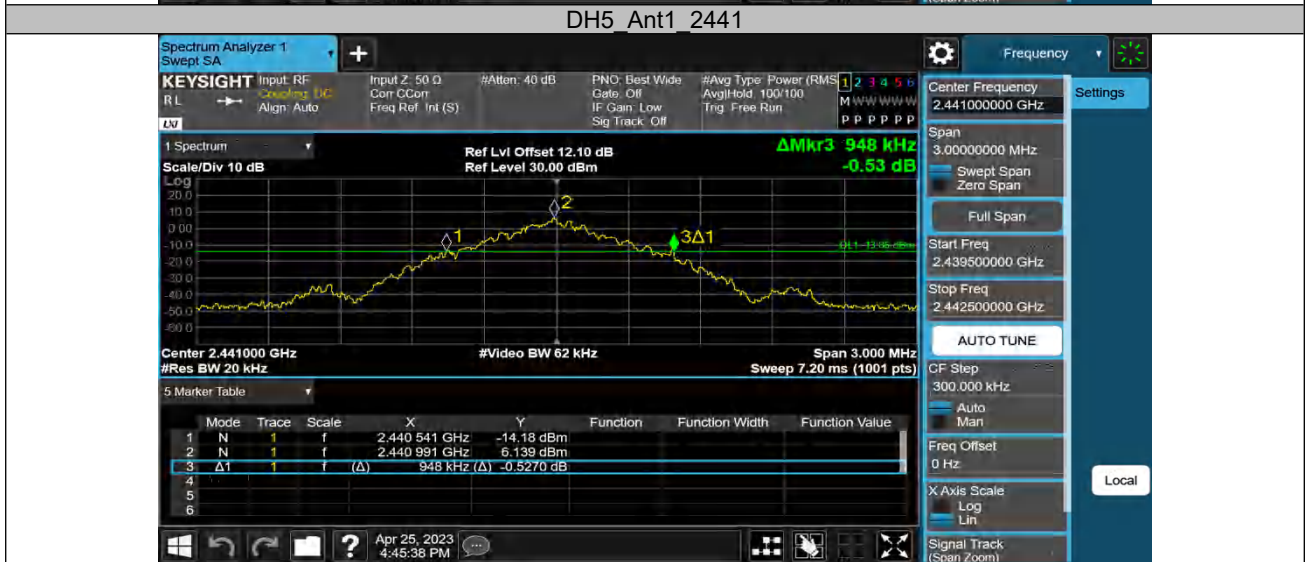






Appendix C.2: Test Results of 20dB Bandwidth

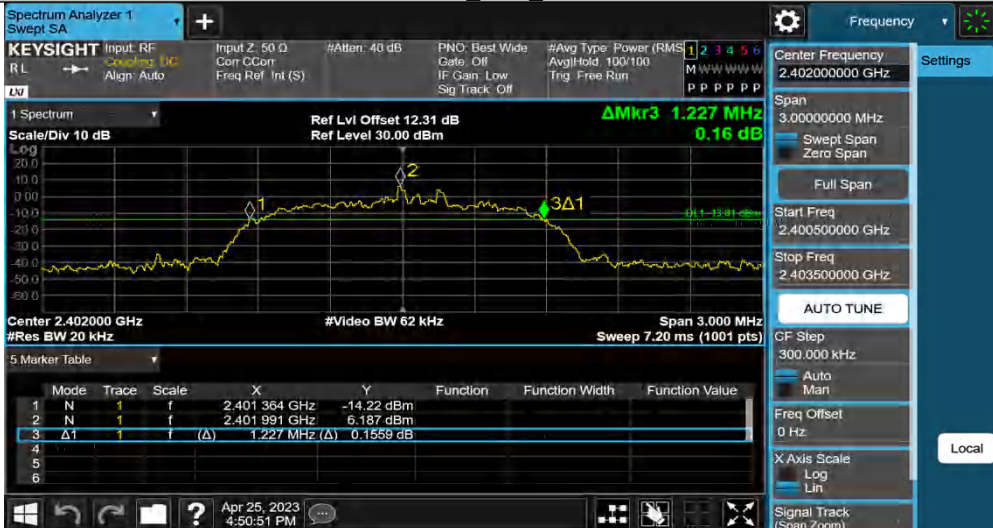
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.002	2401.484	2402.486	---	---
		2441	0.948	2440.541	2441.489	---	---
		2480	1.026	2479.481	2480.507	---	---
3DH5	Ant1	2402	1.227	2401.364	2402.591	---	---
		2441	1.221	2440.373	2441.594	---	---
		2480	1.242	2479.364	2480.606	---	---



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 3.465V	2401.990	10	2401.990	10
DC 3.85V	2401.989	11	2401.989	
DC 4.235V	2401.987	13	2401.987	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2401.987	13	2401.987	10
-20	2401.985	15	2401.985	
-10	2401.984	16	2401.984	
0	2401.989	13	2401.989	
10	2401.988	12	2401.988	
20	2401.987	13	2401.987	
30	2401.988	12	2401.988	
40	2401.984	16	2401.984	
50	2401.985	15	2401.985	
55	2401.983	17	2401.983	

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 3.465V	2440.992	-8	-3.28	10
DC 3.85V	2440.990	-10	-4.10	
DC 4.235V	2440.993	-7	-2.87	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2440.991	-9	-3.69	10
-20	2440.988	-12	-4.92	
-10	2440.995	-5	-2.05	
0	2440.990	-10	-4.10	
10	2440.989	-11	-4.51	
20	2440.986	-14	-5.74	
30	2440.985	-15	-6.15	
40	2440.987	-13	-5.33	
50	2440.991	-9	-3.69	
55	2440.987	-13	-5.33	

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

Test result of frequency tolerance of voltage variation

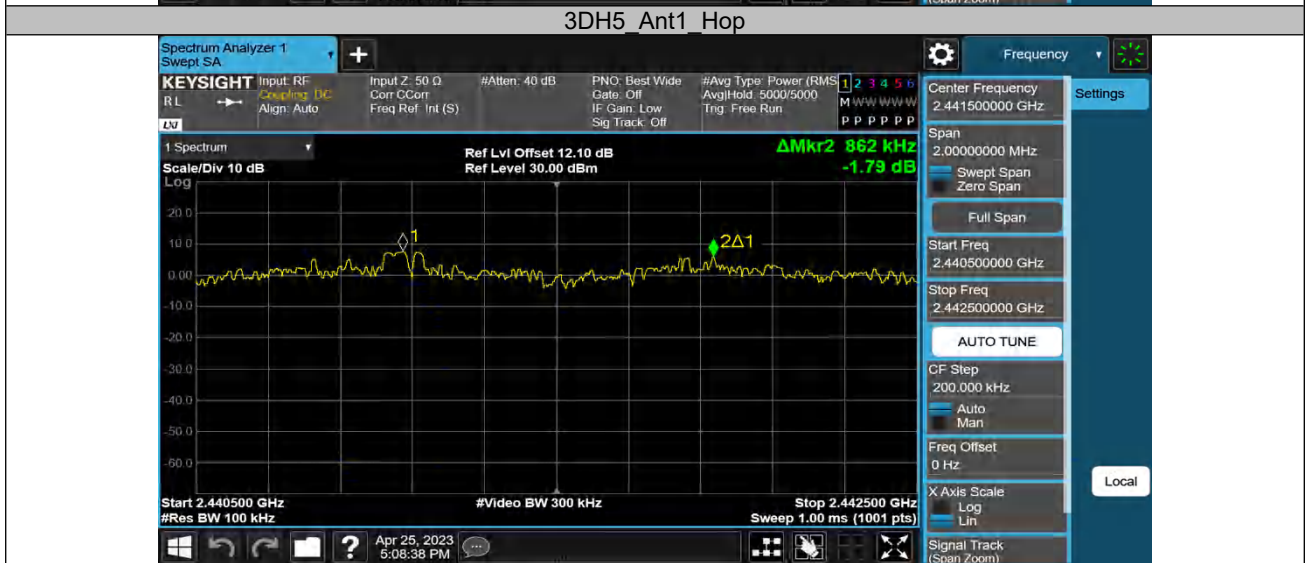
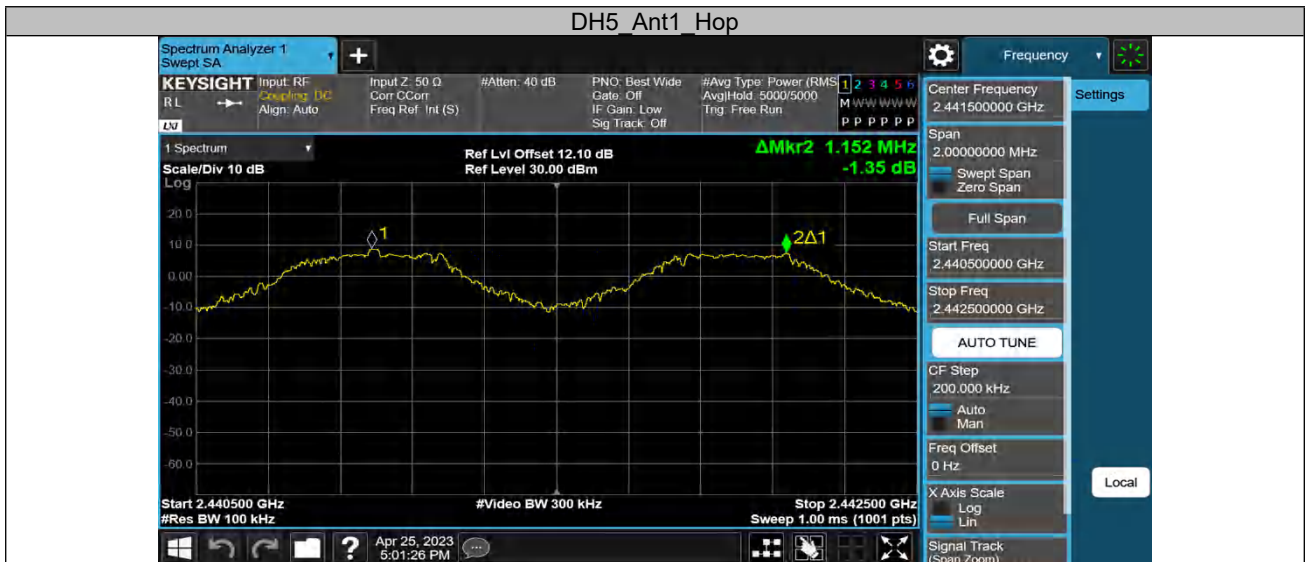
Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.465V	2479.995	-5	-2.02	10
DC 3.85V	2479.992	-8	-3.23	
DC 4.235V	2479.994	-6	-2.42	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2479.991	-9	-3.63	10
-20	2479.992	-8	-3.23	
-10	2479.989	-11	-4.44	
0	2479.991	-9	-3.63	
10	2479.990	-10	-4.03	
20	2479.988	-12	-4.84	
30	2479.986	-14	-5.65	
40	2479.986	-14	-5.65	
50	2479.988	-12	-4.84	
55	2479.985	-15	-6.05	

Appendix C.4: Test Results of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.152	≥1.026	PASS
3DH5	Ant1	Hop	0.862	≥0.828	PASS



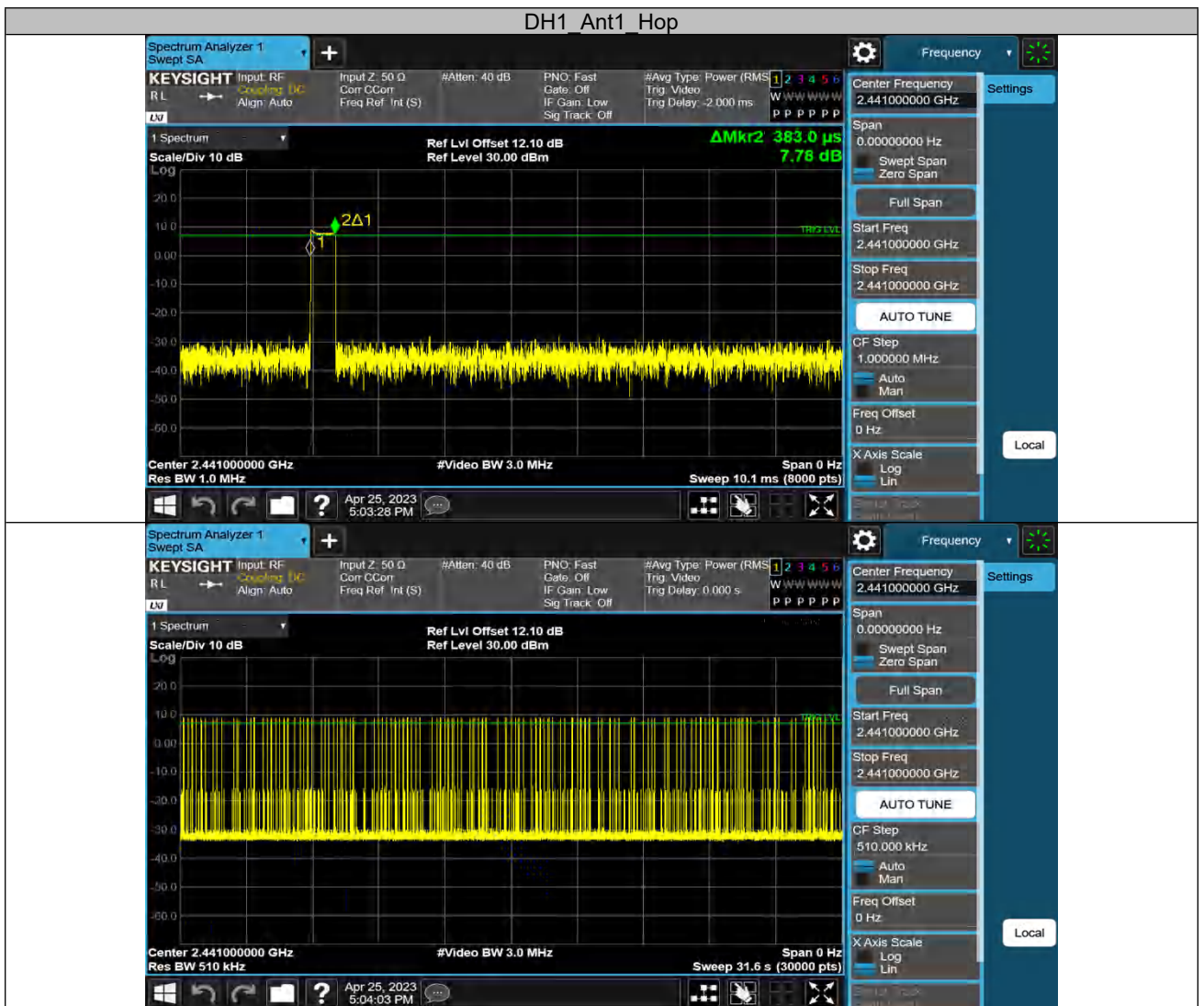
Appendix C.5: Test Results of Number of Hopping Frequency

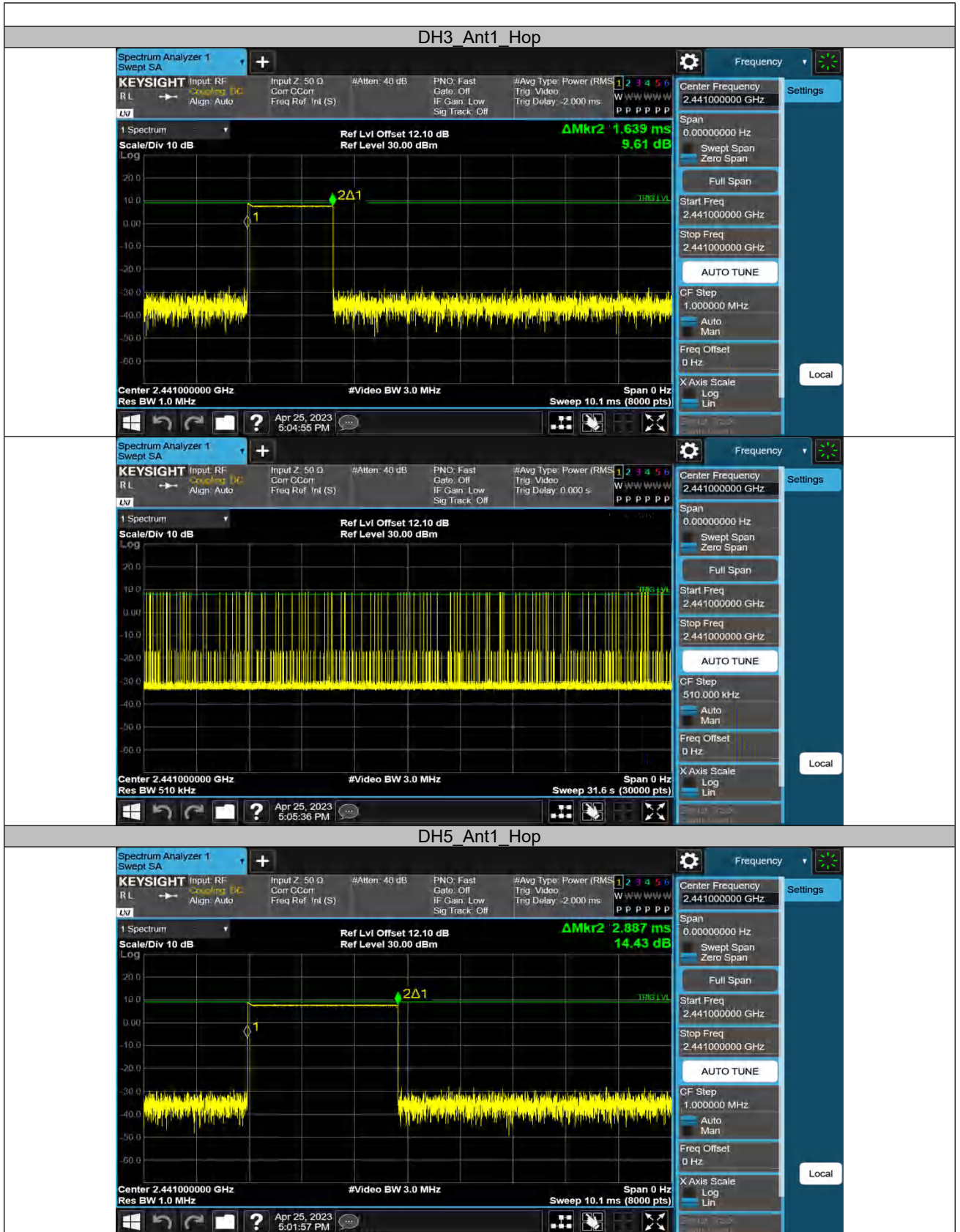
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



Appendix C.6: Test Results of Time of Occupancy

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.383	166	0.064	≤0.4	PASS
DH3	Ant1	Hop	1.639	111	0.182	≤0.4	PASS
DH5	Ant1	Hop	2.887	76	0.219	≤0.4	PASS
3DH1	Ant1	Hop	0.393	151	0.059	≤0.4	PASS
3DH3	Ant1	Hop	1.643	106	0.174	≤0.4	PASS
3DH5	Ant1	Hop	2.894	87	0.252	≤0.4	PASS

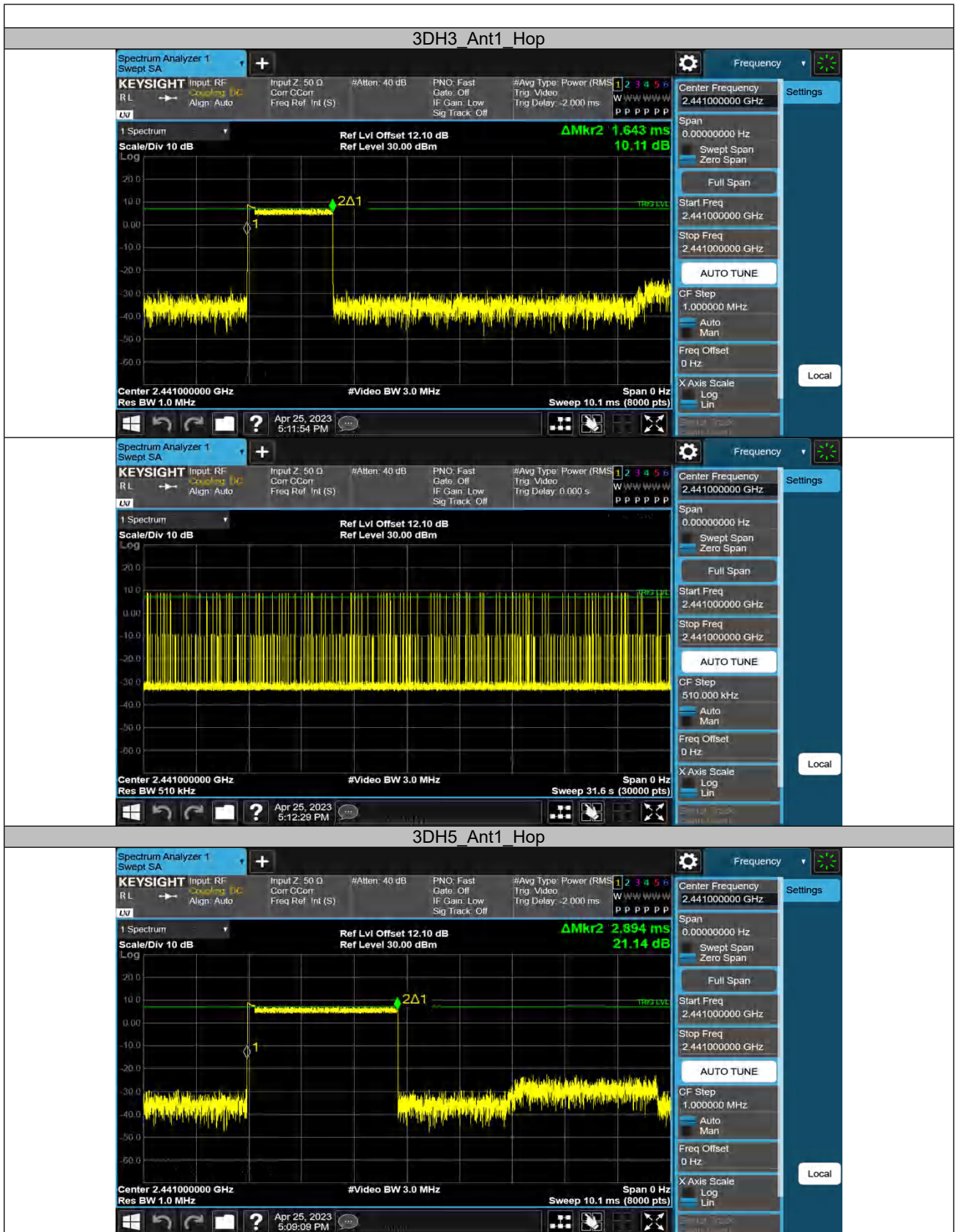






3DH1_Ant1_Hop







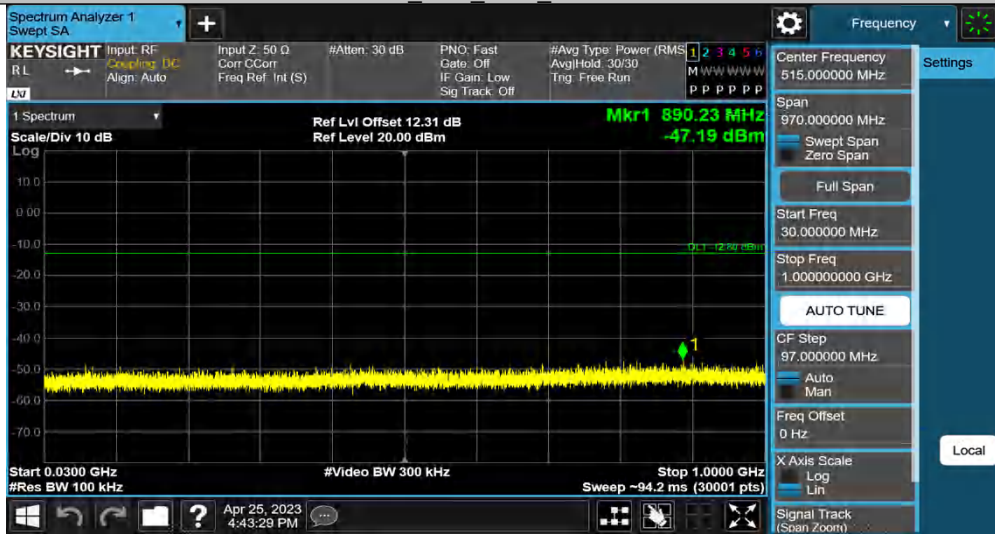
Appendix C.7: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted measurements

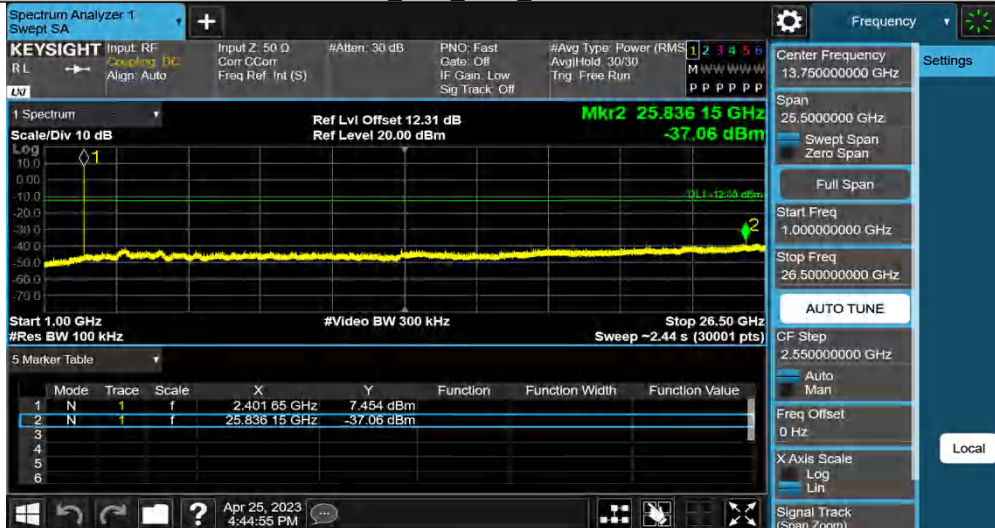
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.20	7.20	---	PASS
			30~1000	7.20	-47.19	≤-12.8	PASS
			1000~26500	7.20	-37.06	≤-12.8	PASS
		2441	Reference	7.89	7.89	---	PASS
			30~1000	7.89	-47.93	≤-12.11	PASS
			1000~26500	7.89	-38.15	≤-12.11	PASS
		2480	Reference	6.88	6.88	---	PASS
			30~1000	6.88	-47.22	≤-13.12	PASS
			1000~26500	6.88	-38.52	≤-13.12	PASS
3DH5	Ant1	2402	Reference	8.12	8.12	---	PASS
			30~1000	8.12	-47.14	≤-11.88	PASS
			1000~26500	8.12	-38.67	≤-11.88	PASS
		2441	Reference	7.98	7.98	---	PASS
			30~1000	7.98	-48.2	≤-12.02	PASS
			1000~26500	7.98	-38.38	≤-12.02	PASS
		2480	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-47.02	≤-17.85	PASS
			1000~26500	2.15	-37.99	≤-17.85	PASS



DH5_Ant1_2402_30~1000



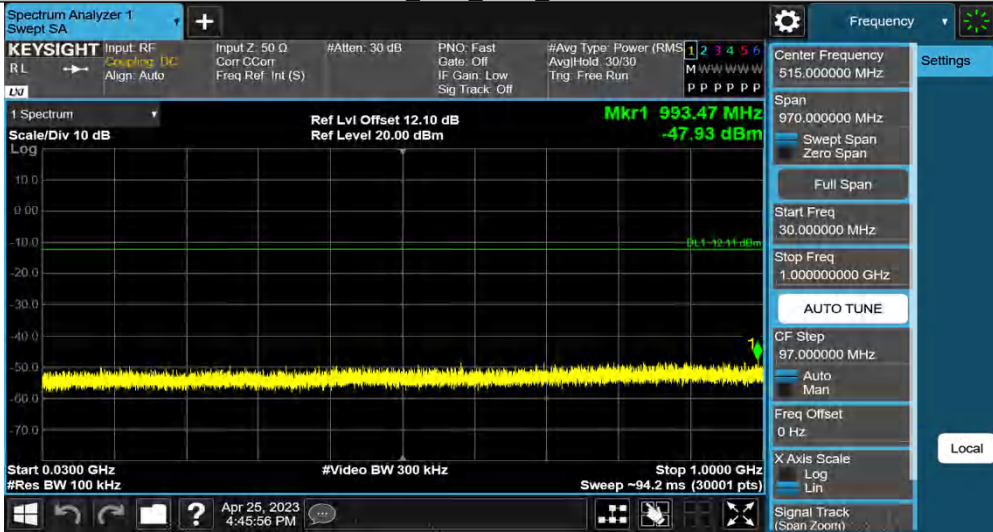
DH5_Ant1_2402_1000~26500



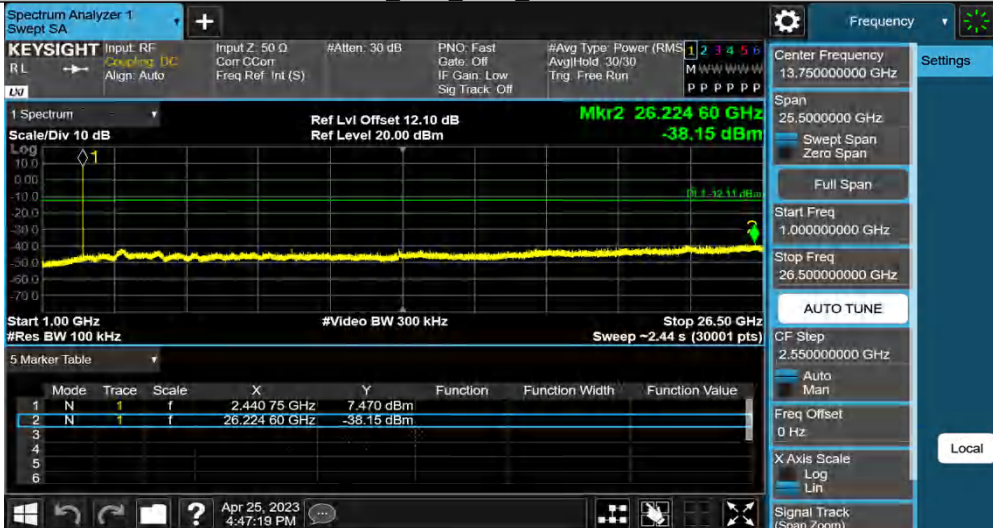
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



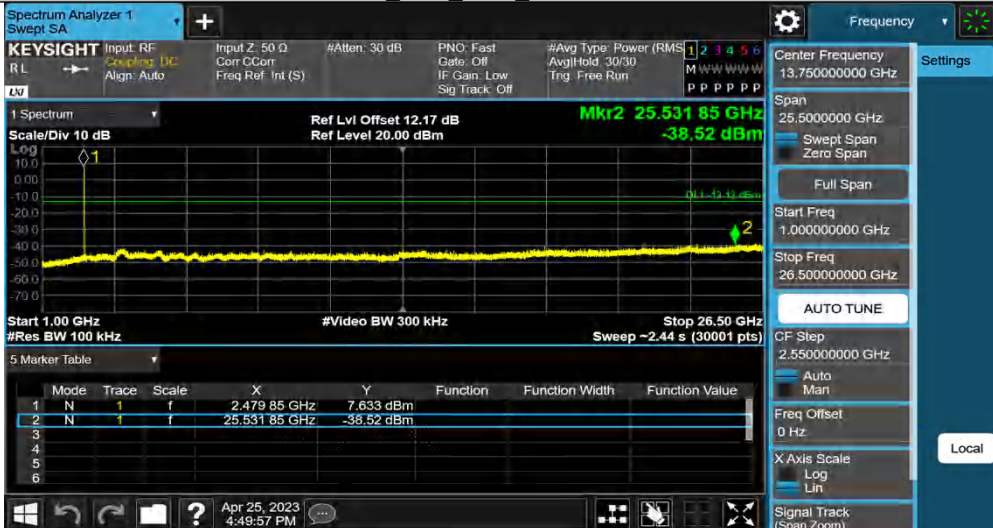
DH5_Ant1_2480_0~Reference



DH5 Ant1 2480 30~1000



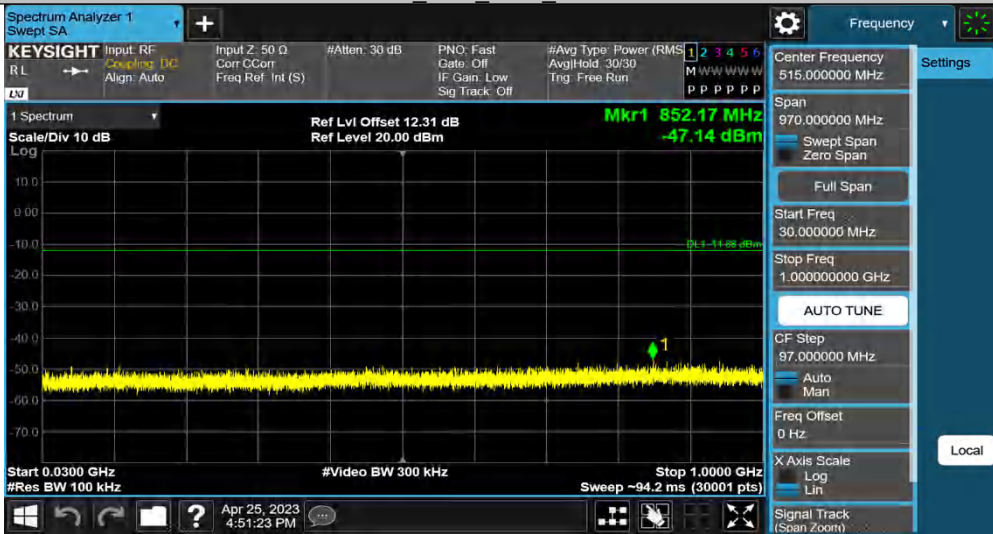
DH5 Ant1 2480 1000~26500



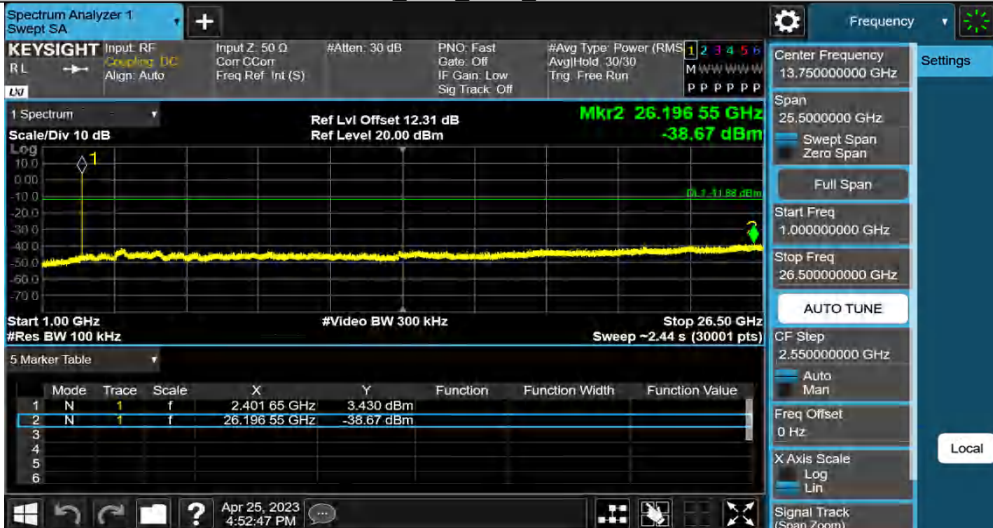
3DH5 Ant1 2402 0~Reference



3DH5_Ant1_2402_30~1000



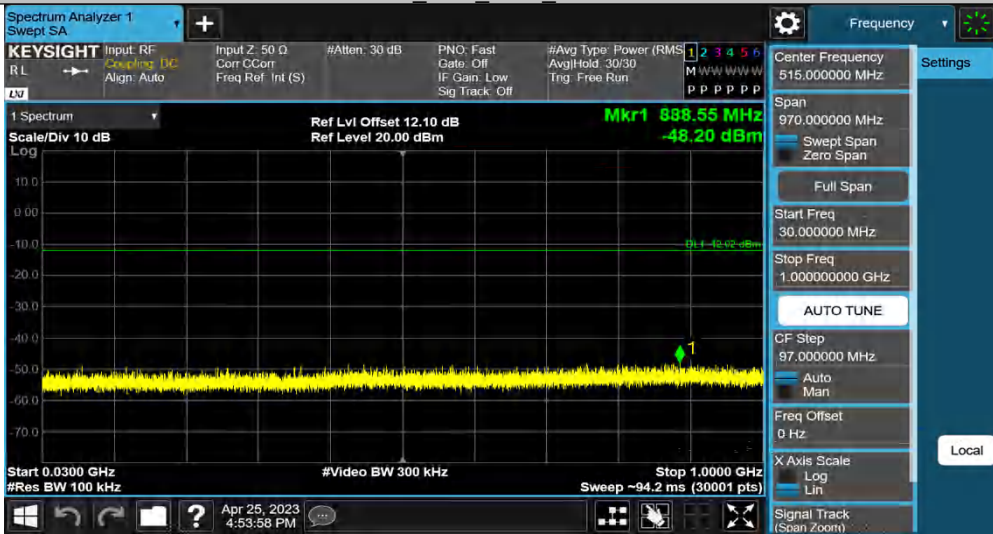
3DH5_Ant1_2402_1000~26500



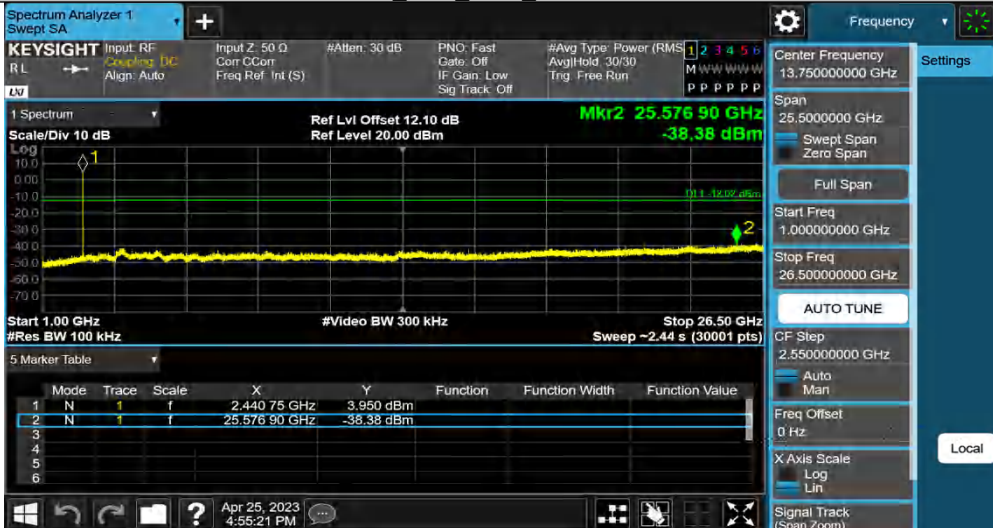
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference





Band edge measurements

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	8.69	-49.19	≤-11.32	PASS
DH5	Ant1	High	2480	7.21	-50.37	≤-12.79	PASS
3DH5	Ant1	Low	2402	8.99	-46.32	≤-11.00	PASS
3DH5	Ant1	High	2480	8.65	-50.60	≤-11.35	PASS
DH5	Ant1	Hopping	2402	7.57	-49.18	≤-12.43	PASS
DH5	Ant1	Hopping	2480	6.99	-50.16	≤-13.01	PASS
3DH5	Ant1	Hopping	2402	2.11	-50.20	≤-17.89	PASS
3DH5	Ant1	Hopping	2480	1.72	-50.00	≤-18.28	PASS









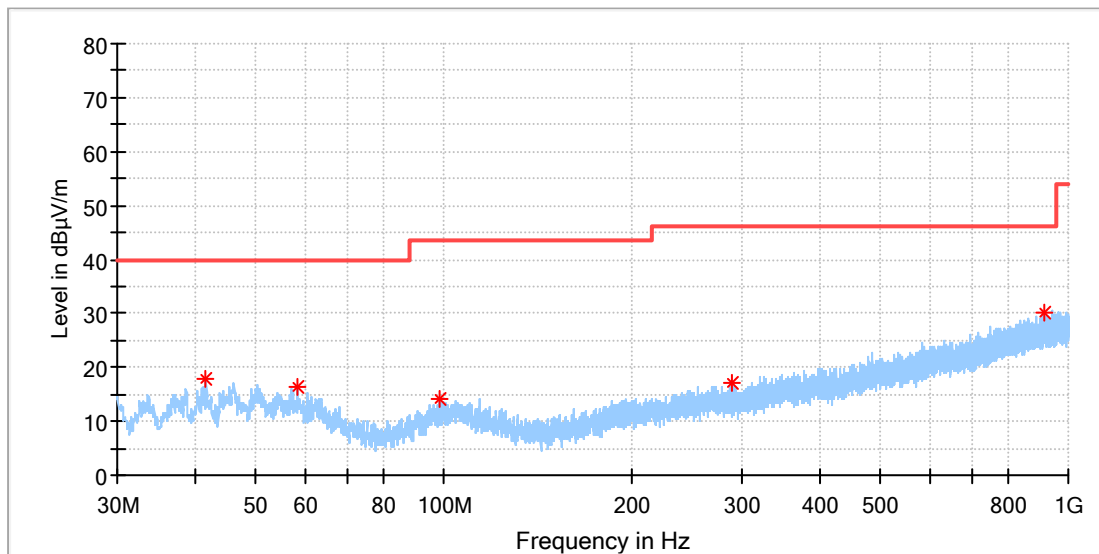
Appendix C.8: Test Results of Radiated Spurious Emissions

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:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

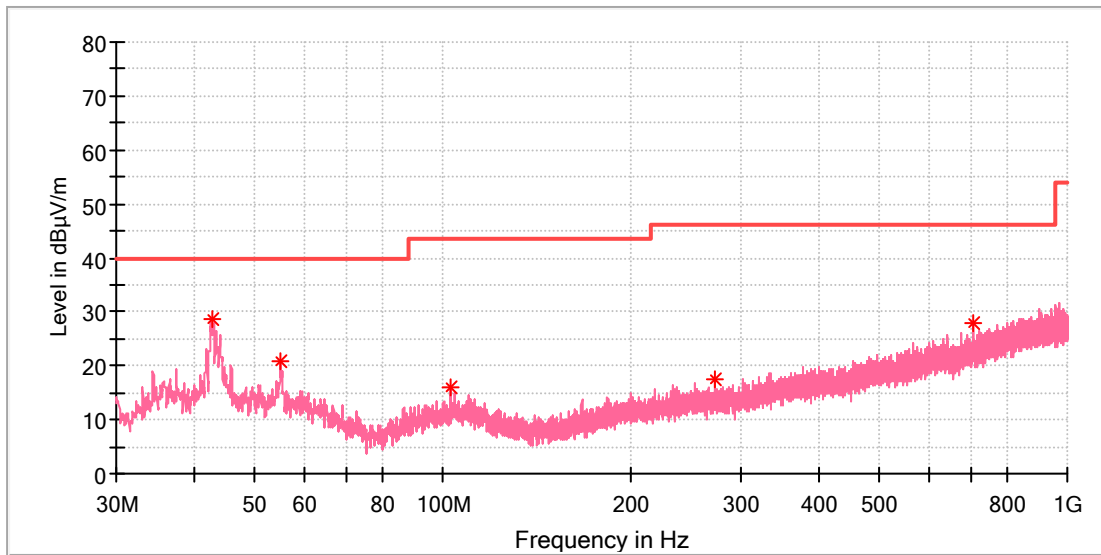


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.640000	17.99	40.00	22.01	100.0	H	242.0	-19.7
58.421000	16.54	40.00	23.46	100.0	H	103.0	-18.8
98.191000	14.30	43.50	29.20	100.0	H	349.0	-19.3
289.620500	17.09	46.00	28.91	100.0	H	141.0	-16.5
914.882500	30.14	46.00	15.86	100.0	H	163.0	-4.9

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

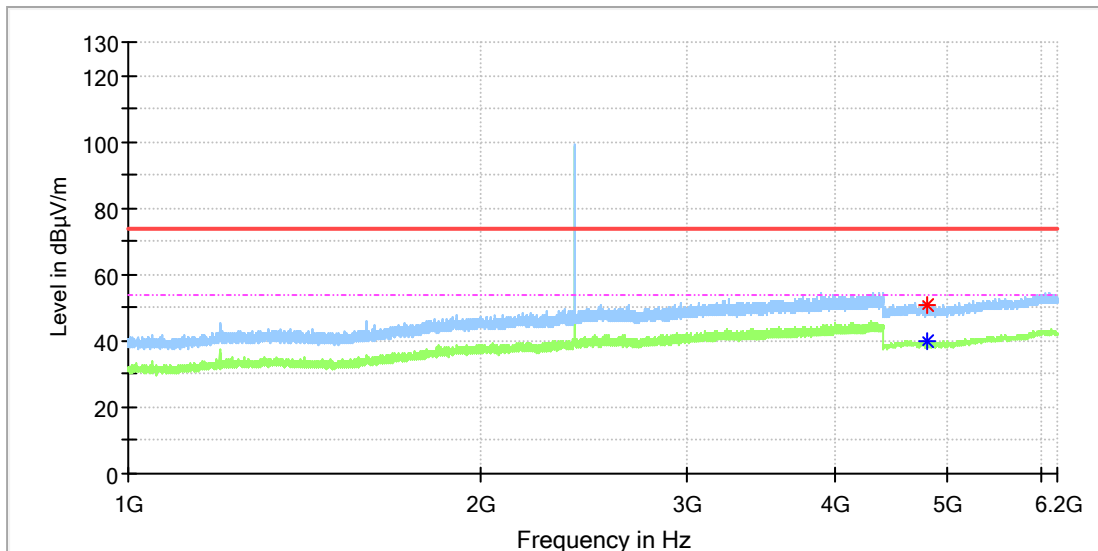
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
42.658500	28.60	40.00	11.40	100.0	V	0.0	-19.4
54.880500	20.82	40.00	19.18	100.0	V	234.0	-18.4
102.944000	15.90	43.50	27.60	100.0	V	65.0	-18.8
273.615500	17.67	46.00	28.33	100.0	V	0.0	-16.9
704.538000	28.09	46.00	17.91	100.0	V	71.0	-7.9

1GHz - 18GHz

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

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

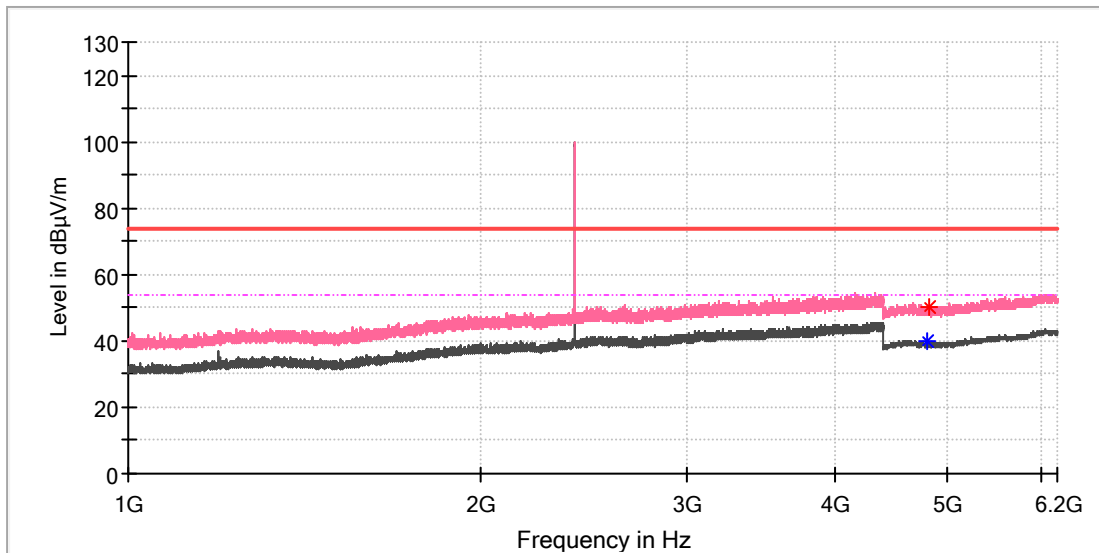


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	40.00	54.00	14.00	100.0	H	85.0	11.8
4809.500000	51.07	---	74.00	22.93	100.0	H	155.0	11.8

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_Low channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

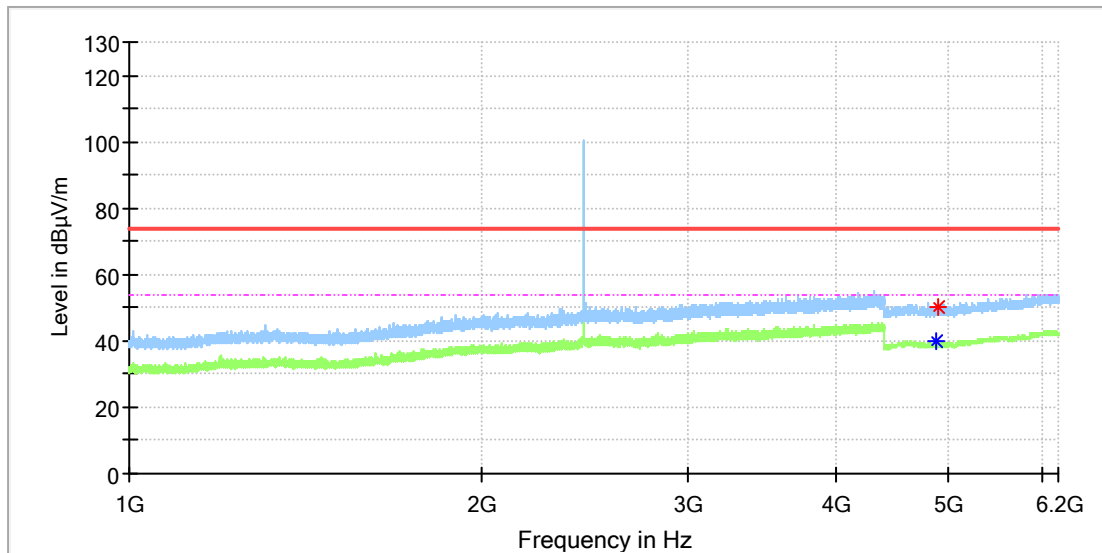


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4808.500000	---	39.64	54.00	14.36	100.0	V	165.0	11.8
4814.500000	49.90	---	74.00	24.10	100.0	V	44.0	11.8

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_Mid channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

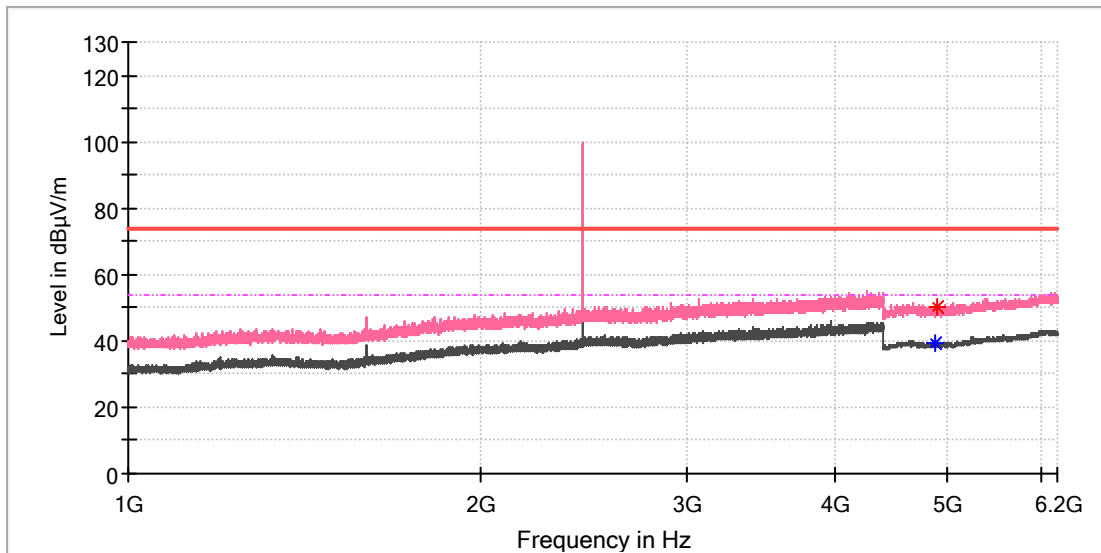


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	---	40.03	54.00	13.97	100.0	H	52.0	11.8
4893.000000	50.00	---	74.00	24.00	100.0	H	26.0	11.8

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_Mid channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

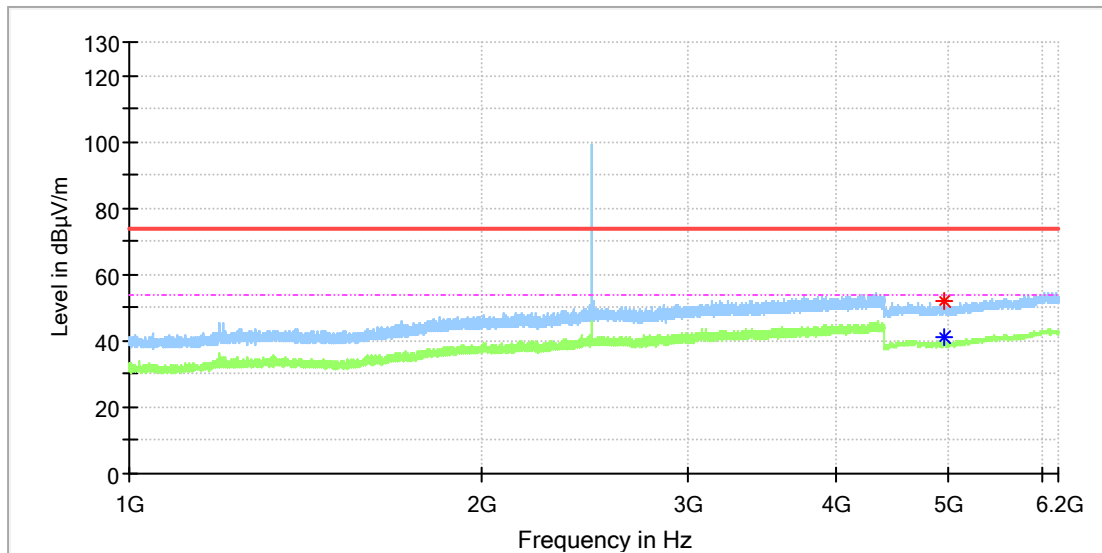


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4871.500000	---	39.51	54.00	14.49	100.0	V	123.0	11.8
4889.500000	50.04	---	74.00	23.96	100.0	V	200.0	11.8

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_High channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

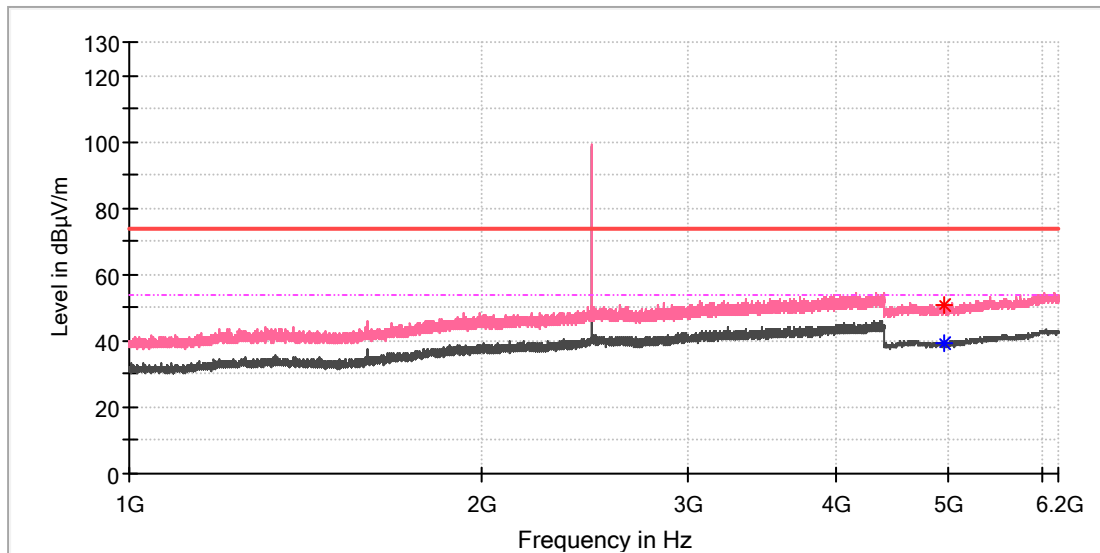


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	---	40.96	54.00	13.04	100.0	H	82.0	11.8
4960.000000	52.03	---	74.00	21.97	100.0	H	82.0	11.8

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

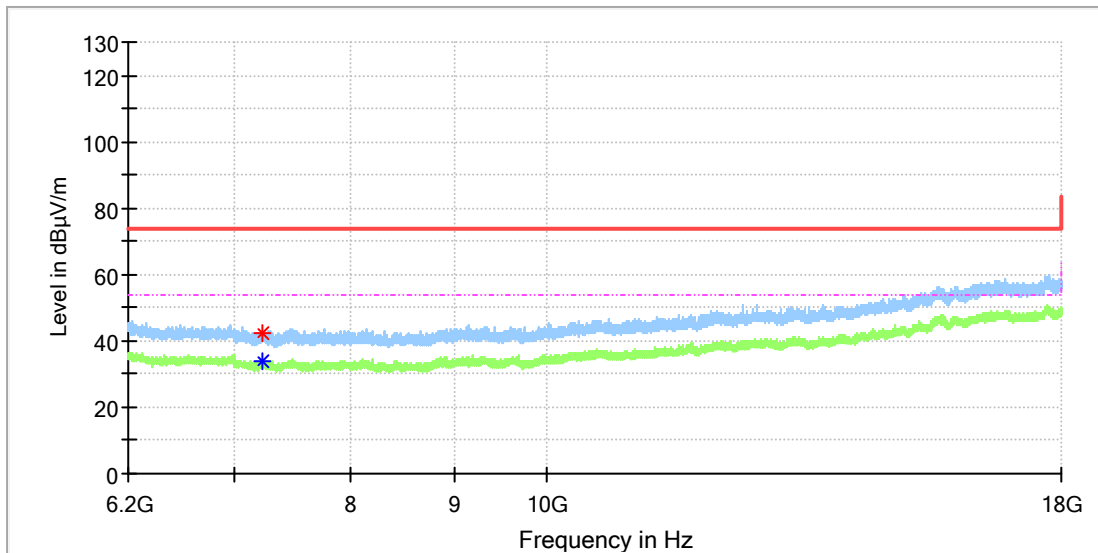


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4957.500000	50.96	---	74.00	23.04	100.0	V	9.0	11.8
4960.000000	---	39.60	54.00	14.40	100.0	V	52.0	11.8

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_Low channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

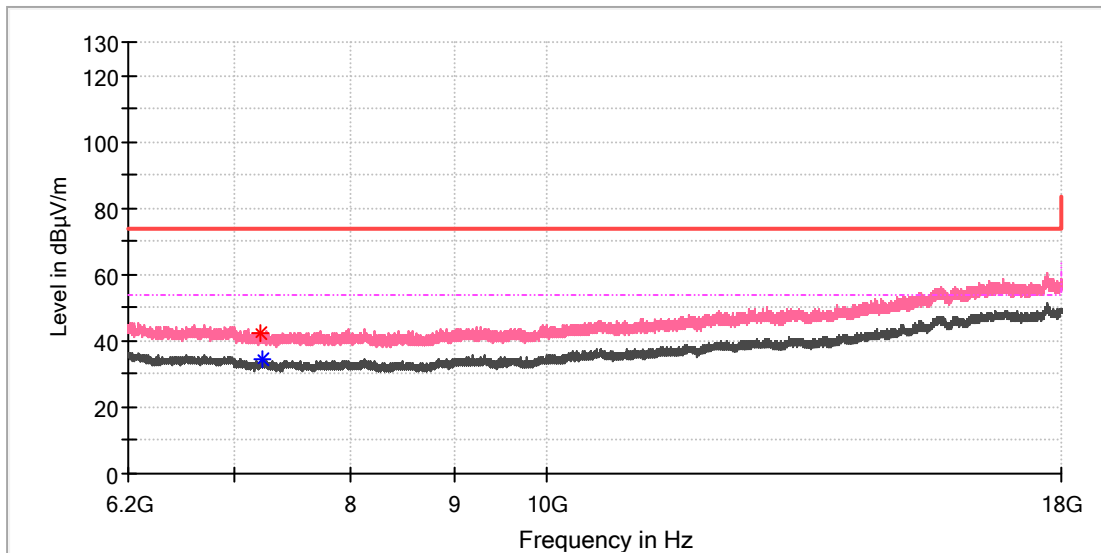


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7224.141667	42.52	---	74.00	31.48	100.0	H	182.0	8.7
7226.108333	---	34.14	54.00	19.86	100.0	H	158.0	8.7

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

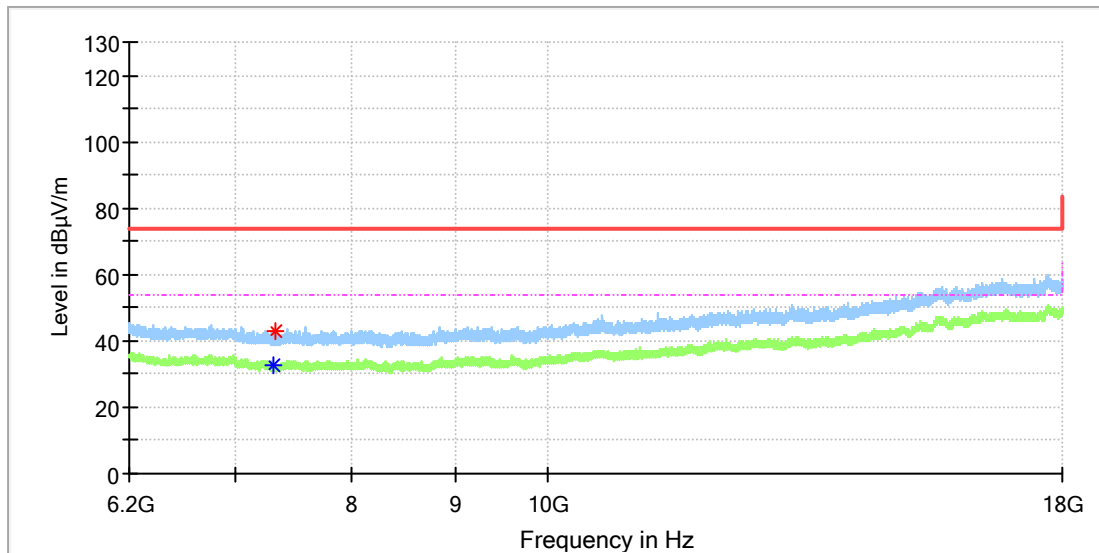


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7218.241667	42.52	---	74.00	31.48	100.0	V	233.0	8.7
7226.600000	---	34.26	54.00	19.74	100.0	V	155.0	8.7

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

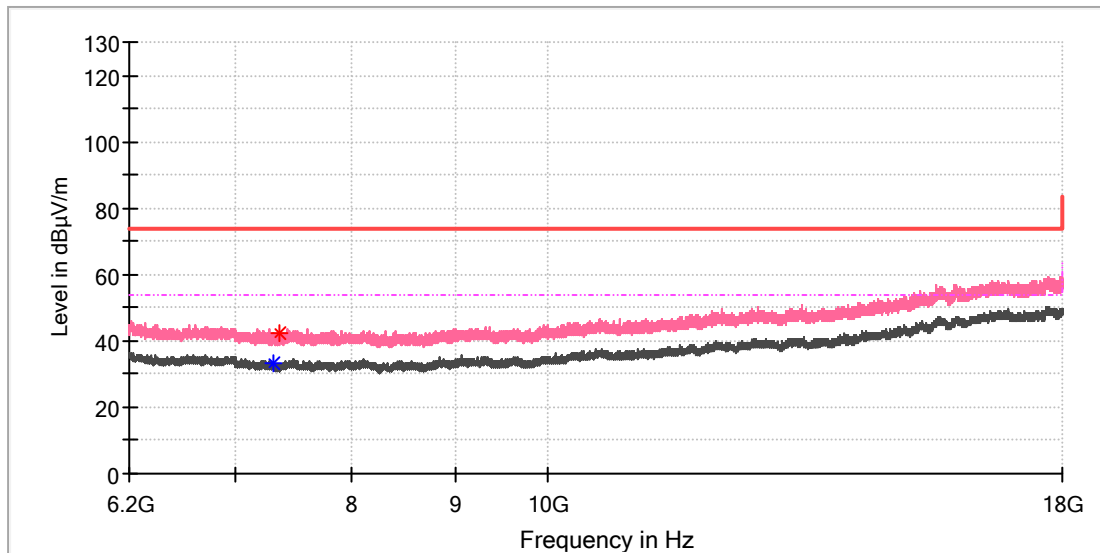


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7310.675000	---	32.93	54.00	21.07	100.0	H	135.0	8.2
7319.033333	42.80	---	74.00	31.20	100.0	H	121.0	8.2

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_Mid channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

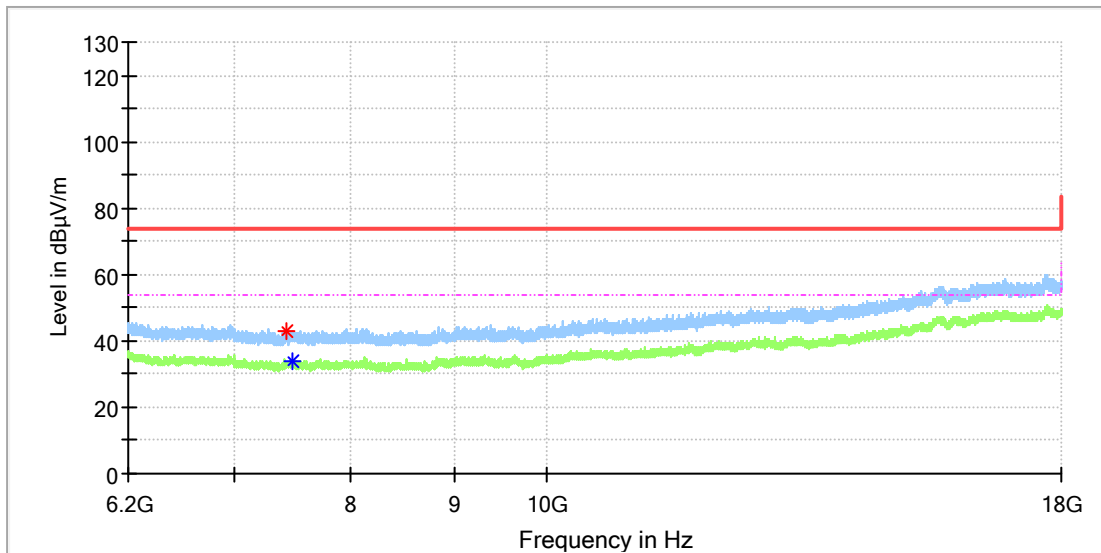


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7317.558333	---	33.30	54.00	20.70	100.0	V	224.0	8.2
7359.350000	42.25	---	74.00	31.75	100.0	V	140.0	8.1

EUT Information

EUT Name: BLUETOOTH HEADSET
 Model: SOUNDGEAR SENSE
 Test Mode: BR_DH5_High channel
 Order No/Sample No: 168422487/A003454679-009
 Test Voltage:: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

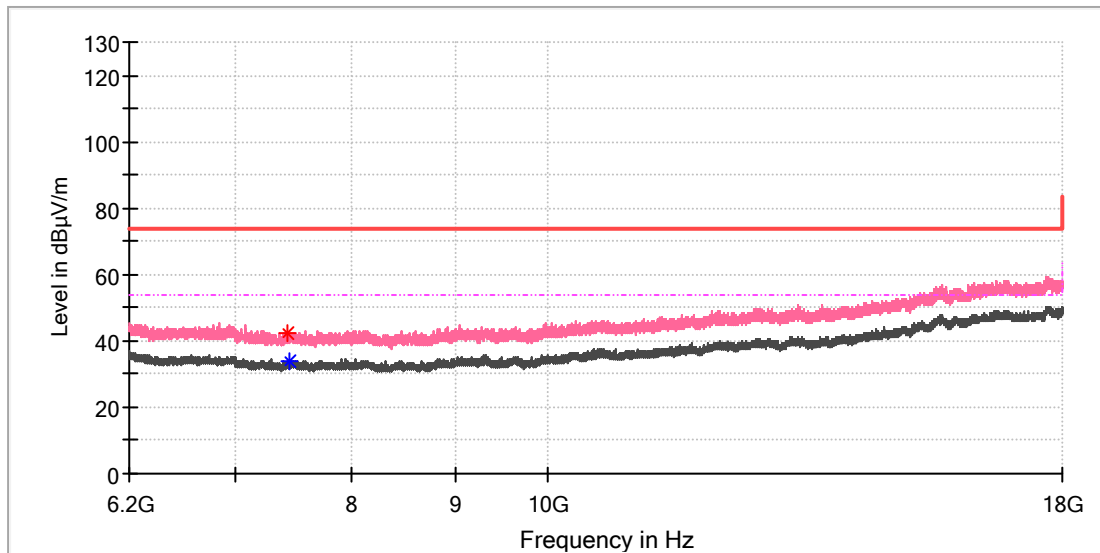


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7422.775000	43.04	---	74.00	30.96	100.0	H	120.0	8.4
7473.908333	---	34.09	54.00	19.91	100.0	H	82.0	8.6

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



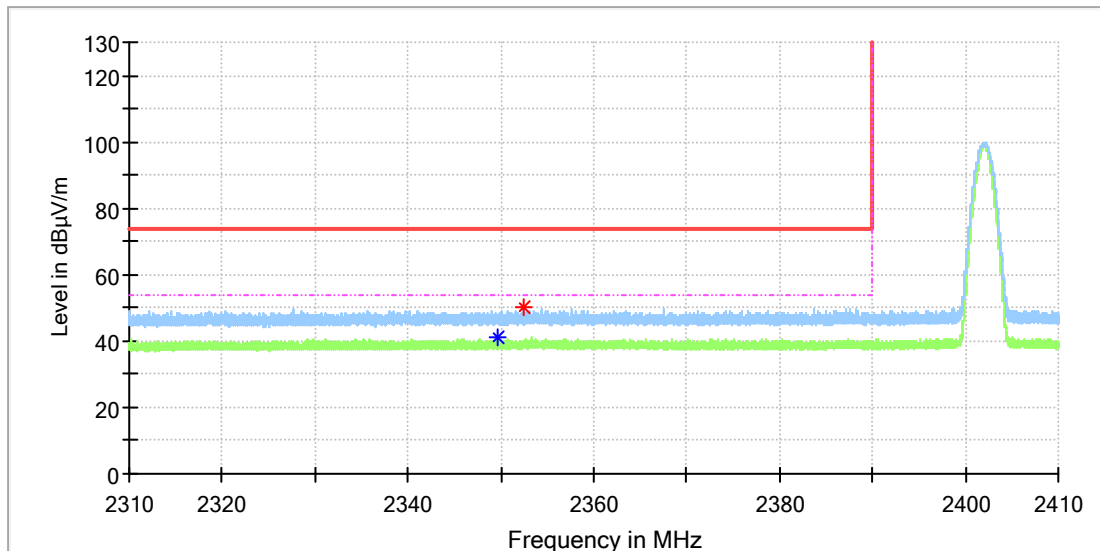
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7429.658333	42.38	---	74.00	31.62	100.0	V	167.0	8.4
7444.408333	---	33.91	54.00	20.09	100.0	V	354.0	8.5

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

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

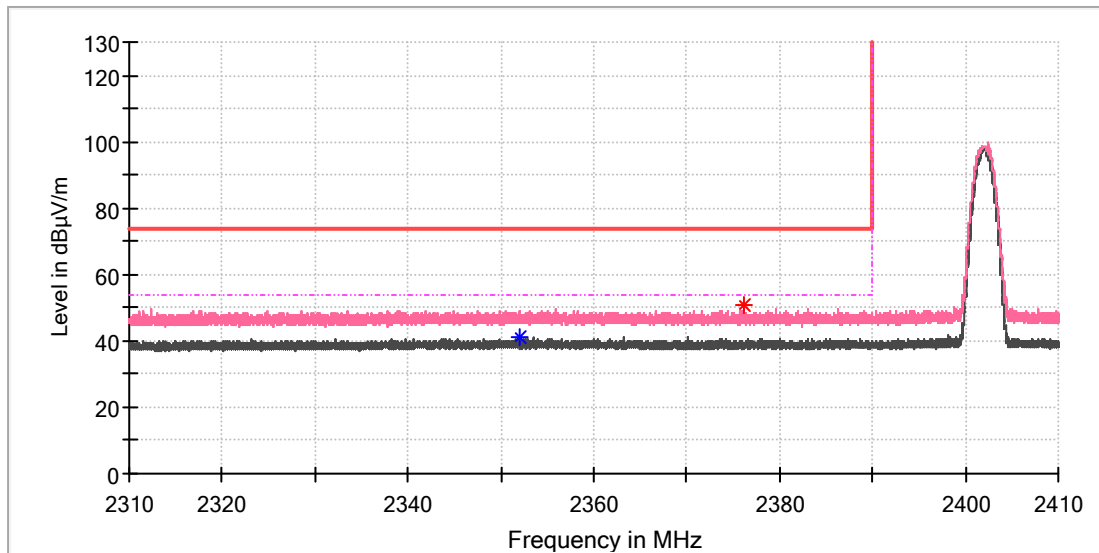


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2349.560000	---	41.18	54.00	12.82	100.0	H	284.0	6.9
2352.555000	49.95	---	74.00	24.05	100.0	H	353.0	6.9

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

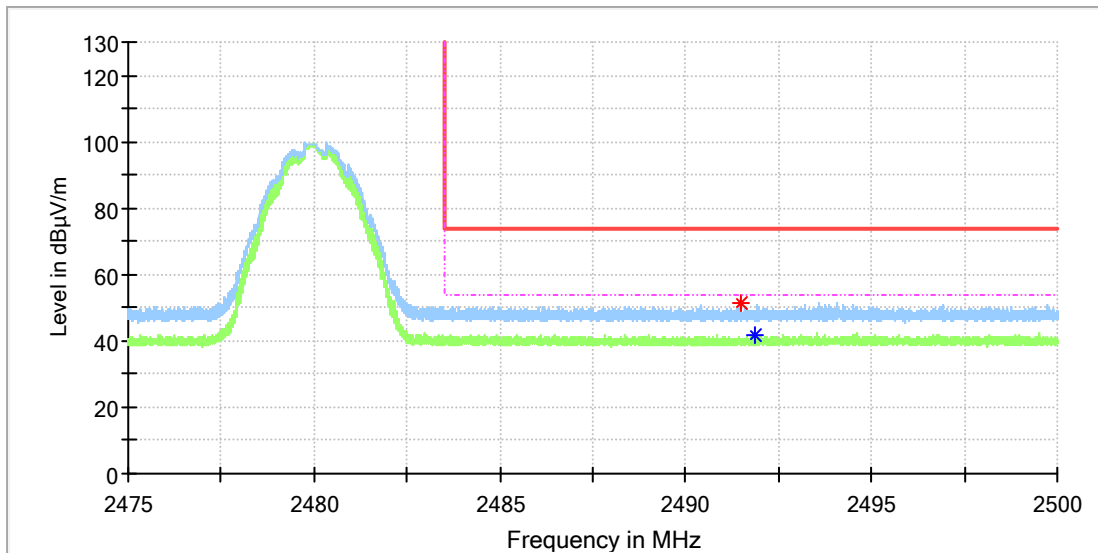


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2351.990000	---	40.99	54.00	13.01	100.0	V	188.0	6.9
2376.125000	50.76	---	74.00	23.24	100.0	V	12.0	6.9

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168422487/A003454679-009
Test Voltage::	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

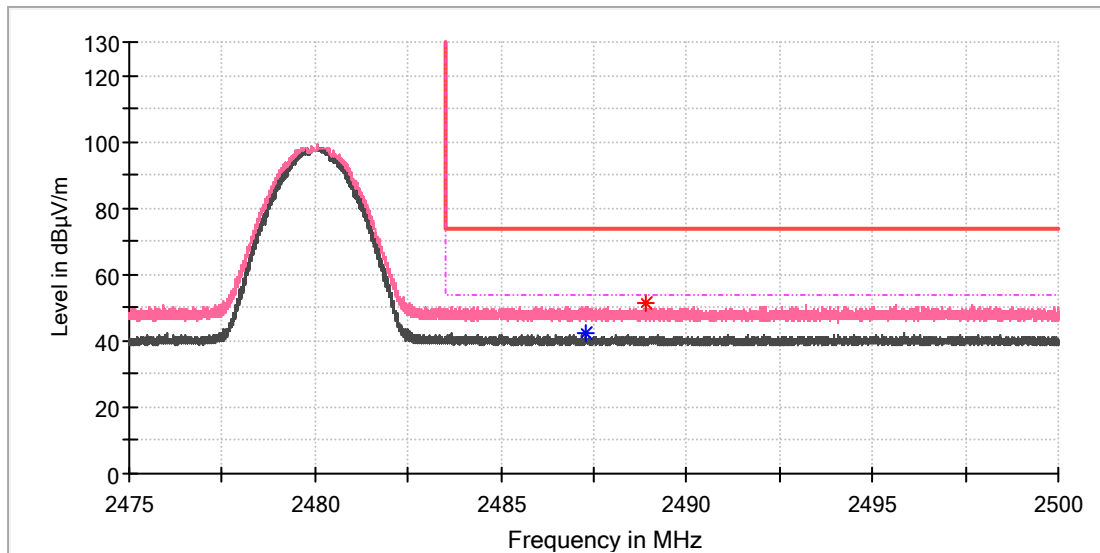


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2491.491250	51.60	---	74.00	22.40	100.0	H	77.0	7.4
2491.840000	---	41.61	54.00	12.39	100.0	H	224.0	7.4

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SOUNDGEAR SENSE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168422487/A003454679-009
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)
2487.290000	---	42.07	54.00	11.93	100.0	V	106.0	7.4
2488.911250	51.48	---	74.00	22.52	100.0	V	147.0	7.4