

Prüfbericht-Nr.: Test report no.:	CN235L5Y 001	Auftrags-Nr.: Order no.:	168422487	Seite 1 von 24 Page 1 of 24
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2023-03-28	
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.:	LIVE770NC (Trademark: JBL)			
Auftrags-Inhalt: Order content:	Type test			
Prüfgrundlage: Test specification:	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: Date of sample receipt:	2023-05-08	Refer to photos document		
Prüfmuster-Nr.: Test sample no.:	A003470422			
Prüfzeitraum: Testing period:	2023-05-06 – 2023-05-23			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	X 		genehmigt von: authorized by:	X 
Datum: Date:	2023-06-02	Ausstellungsdatum: Issue date:		2023-06-02
Stellung / Position:	Project Manager	Stellung / Position:		Reviewer
Sonstiges / Other:	FCC ID: APILIVE770NC IC: 6132A-LIVE770NC HVIN: LIVE770NC			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. 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.				

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Remarks
Anmerkungen

1	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. <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> <i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i>
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3	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. <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>
4	The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019. <i>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>

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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.

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	Y LX23JMF	N/A
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2023-08-02
Signal Analyzer	R&S	FSV 40	101439	2023-08-01
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2023-08-01
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2023-08-02
Amplifier	R&S	SCU-18F	180070	2023-08-02
Amplifier	R&S	SCU40A	100475	2023-08-02
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-08-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-08-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2023-08-06
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

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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	$\pm 2.08 \%$
RF output power, conducted	$\pm 0.99 \text{ dB}$
RF power density, conducted	$\pm 0.99 \text{ dB}$
Unwanted Emissions, conducted	$\pm 0.89 \text{ dB}$
All emissions, radiated	$\pm 4.17 \text{ dB}$

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China/518110 is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

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3 General Product Information

3.1 Product Function and Intended Use

The EUT are Bluetooth Headset, which supports Bluetooth dual mode technology, this product has four different color of enclosure: pink, blue, black and white.

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	LIVE770NC
Trademark	JBL
FCC ID	APILIVE770NC
IC	6132A-LIVE770NC
HVIN	LIVE770NC
Extreme Temperature Range	0°C to +45°C
Operating Voltage	DC 3.7V, 850mAh via built-in Li-ion battery DC 5V, 1A via Type-C port 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	Integral antenna
Antenna Gain	1.93 dBi (Provided by the Client)
Technical Specification of Bluetooth Low Energy	
Bluetooth Core Version	Bluetooth 5.3
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	40 channels
Channel separation	2MHz
Data rate	1Mbps, 2Mbps
Modulation	GFSK
Antenna Type	Integral antenna
Antenna Gain	1.93 dBi (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

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

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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 LIVE770NC with black enclosure.

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)

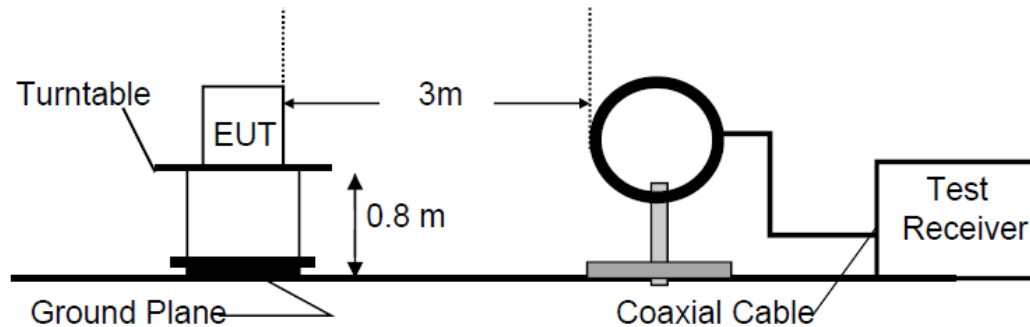


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

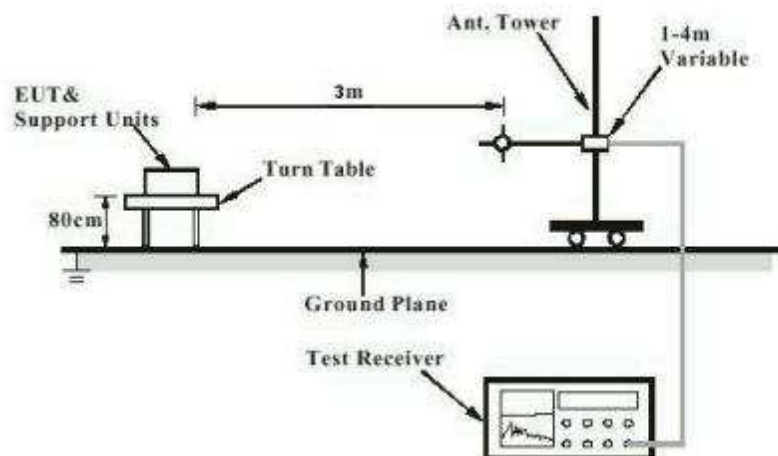
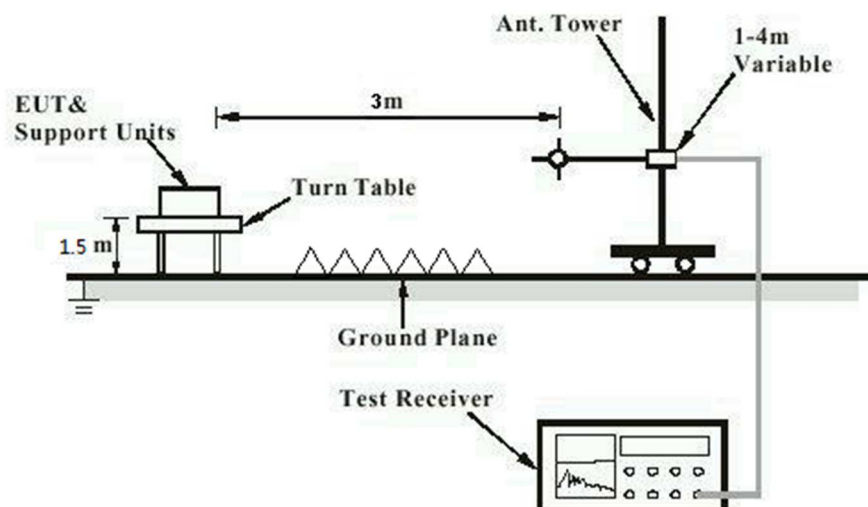


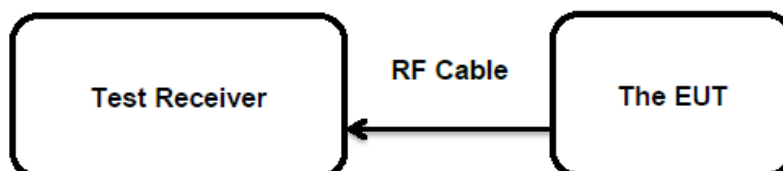
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



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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 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 Integral antenna, the directional gain of antennas are 1.93 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum 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	2023-05-06 to 2023-05-23
Input voltage	DC 3.7V
Operation mode	A.1
Test channel	Low / Middle / High
Ambient temperature	25.2 °C
Relative humidity	53 %
Atmospheric pressure	101 kPa

Table 6: Test Result of Maximum Conducted Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BR	2402	3.98	0.00250	< 0.125
	2441	4.40	0.00275	
	2480	3.80	0.00240	
EDR	2402	3.47	0.00222	
	2441	4.65	0.00292	
	2480	3.82	0.00241	
Maximum Measured Value		4.65	0.00292	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 6.58 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 : 2023-05-06 to 2023-05-23
Input voltage : DC 3.7V
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 25.2 °C
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Table 7: Test Result of 99% Bandwidth

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
BR	2402	0.87983	/
	2441	0.86327	
	2480	0.89332	
EDR	2402	1.1558	/
	2441	1.1517	
	2480	1.1668	

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	: 2023-05-06 to 2023-05-23
Input voltage	: DC 3.7V
Operation mode	: A.1
Test channel	: Low / Middle / High
Ambient temperature	: 25.2 °C
Relative humidity	: 53 %
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

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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 : 2023-05-06 to 2023-05-23
Input voltage : DC 3.7V
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.

Prüfbericht-Nr.: CN235L5Y 001
Test report no.:

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5.1.6 20dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)(1)
RSS-247 Clause 5.1(a)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2023-05-06 to 2023-05-23
Input voltage : DC 3.7V
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 25.2 °C
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Table 8: Test Result of -20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
BR	2402	1023	682.000	/
	2441	948	632.000	
	2480	1023	682.000	
EDR	2402	1155	770.000	/
	2441	1179	786.000	
	2480	1164	776.000	

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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 : 2023-05-06 to 2023-05-23
Input voltage : DC 3.7V
Operation mode : B
Test channel : Low / Middle / High
Ambient temperature : $25.2\text{ }^{\circ}\text{C}$
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Table 9: Test Result of Carrier Frequency Separation

Test Mode	Channel	Result[MHz]	Limit[MHz]	Verdict
BR-DH5	Hop	1.128	≥ 1.023	PASS
EDR-3DH5	Hop	1.146	≥ 0.786	PASS

Note:

The limit is maximum $2/3$ of the 20 dB bandwidth: 786KHz .

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Test report no.:

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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 : 2023-05-06 to 2023-05-23
Input voltage : DC 3.7V
Operation mode : B
Ambient temperature : 25.2 °C
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht-Nr.: CN235L5Y 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 : 2023-05-06 to 2023-05-23
Input voltage : DC 3.7V
Operation mode : B
Ambient temperature : 25.2 °C
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Table 10: Test Result of Number of Hopping Frequency

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

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Test report no.:

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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 : 2023-05-06 to 2023-05-23
Input voltage : DC 3.7V
Operation mode : B
Test channel : Low / Middle / High
Ambient temperature : 25.2 °C
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

6 Photographs of the Test Set-Up

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

7 List of Tables

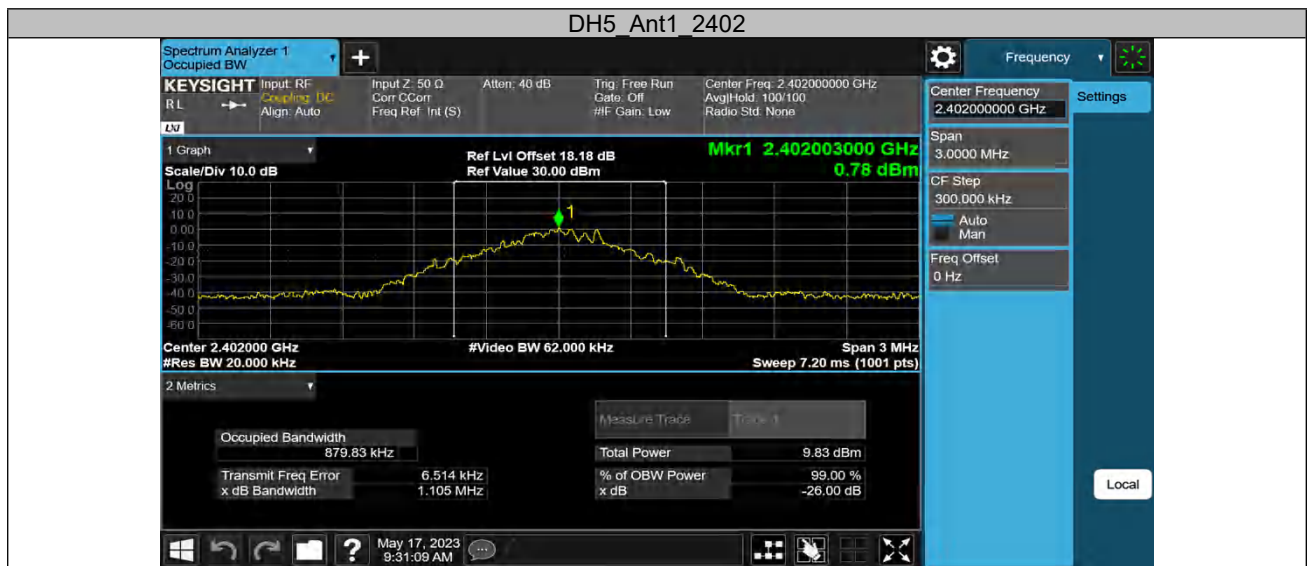
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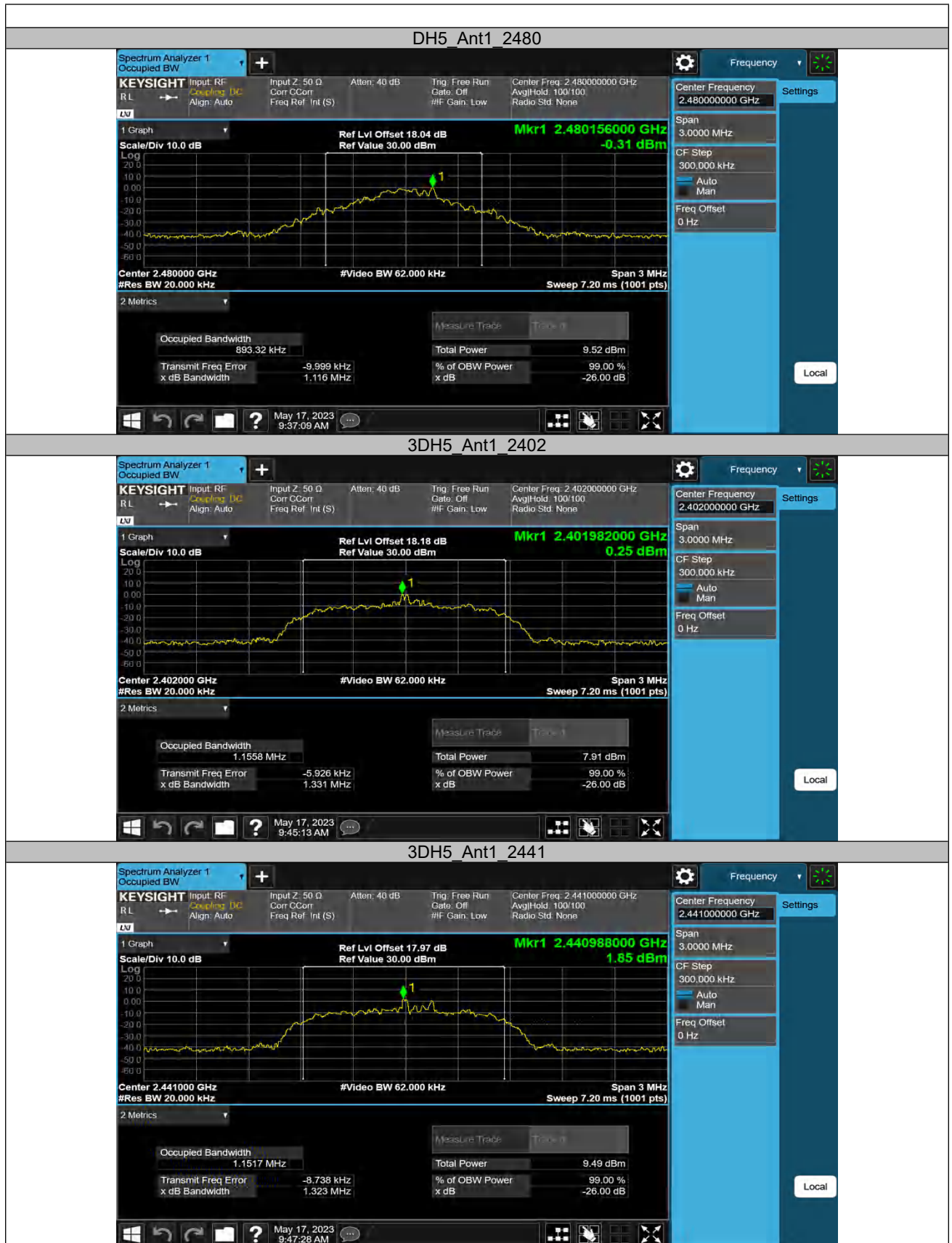
Appendix B: Test Results

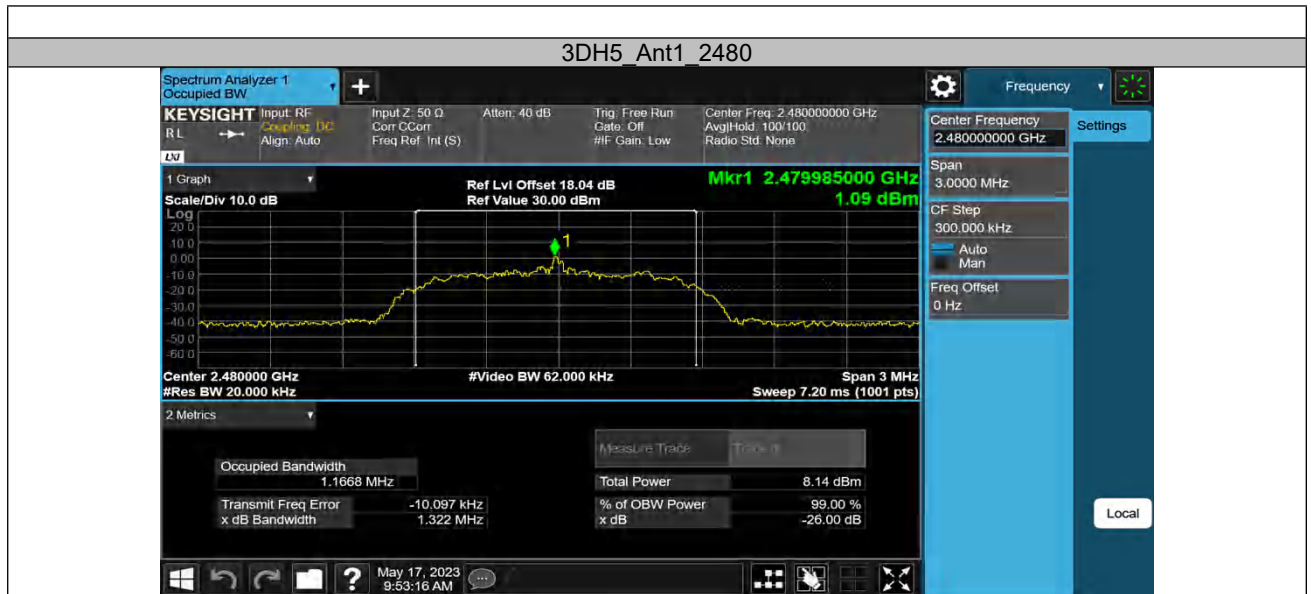
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Appendix B.1: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87983	2401.5666	2402.4464	---	---
		2441	0.86327	2440.5640	2441.4273	---	---
		2480	0.89332	2479.5433	2480.4367	---	---
3DH5	Ant1	2402	1.1558	2401.4162	2402.5720	---	---
		2441	1.1517	2440.4154	2441.5671	---	---
		2480	1.1668	2479.4065	2480.5733	---	---





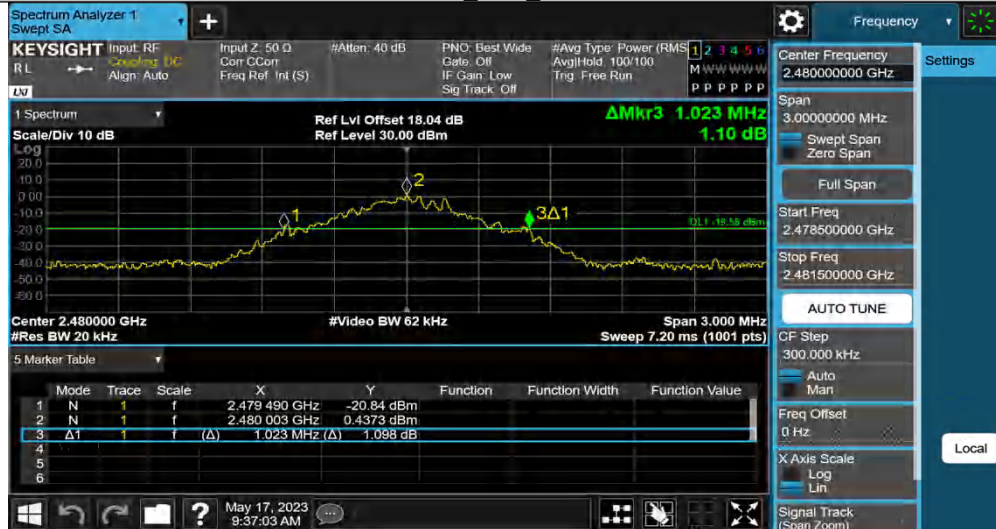


Appendix B.2: Test Results of 20dB Bandwidth

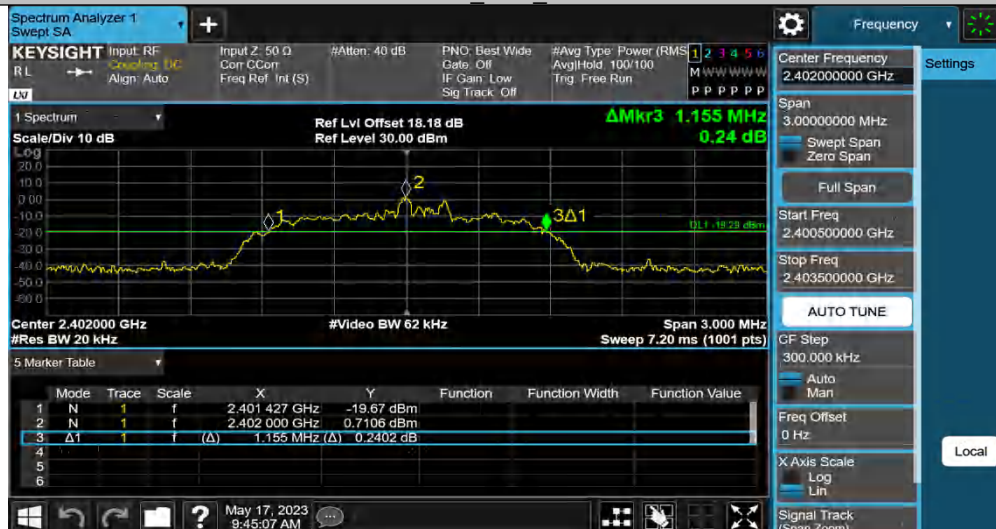
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.023	2401.487	2402.510	---	---
		2441	0.948	2440.541	2441.489	---	---
		2480	1.023	2479.490	2480.513	---	---
3DH5	Ant1	2402	1.155	2401.427	2402.582	---	---
		2441	1.179	2440.412	2441.591	---	---
		2480	1.164	2479.421	2480.585	---	---



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 3.33V	2401.994	6	2.50	10
DC 3.7V	2401.995	5	2.08	
DC 4.07V	2401.993	7	2.91	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2401.990	10	4.16	10
-20	2401.992	8	3.33	
-10	2401.994	6	2.50	
0	2401.994	6	2.50	
10	2401.995	5	2.08	
20	2401.996	4	1.67	
30	2401.998	2	0.83	
40	2401.988	12	5.00	
50	2401.997	3	1.25	
55	2401.996	4	1.67	

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 3.33V	2440.992	-8	-3.28	10
DC 3.7V	2440.995	-5	-2.05	
DC 4.07V	2440.997	-3	-1.23	

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 3.33V	2479.993	-7	-2.82	10
DC 3.7V	2479.995	-5	-2.02	
DC 4.07V	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	1.128	≥ 1.023	PASS
3DH5	Ant1	Hop	1.146	≥ 0.786	PASS



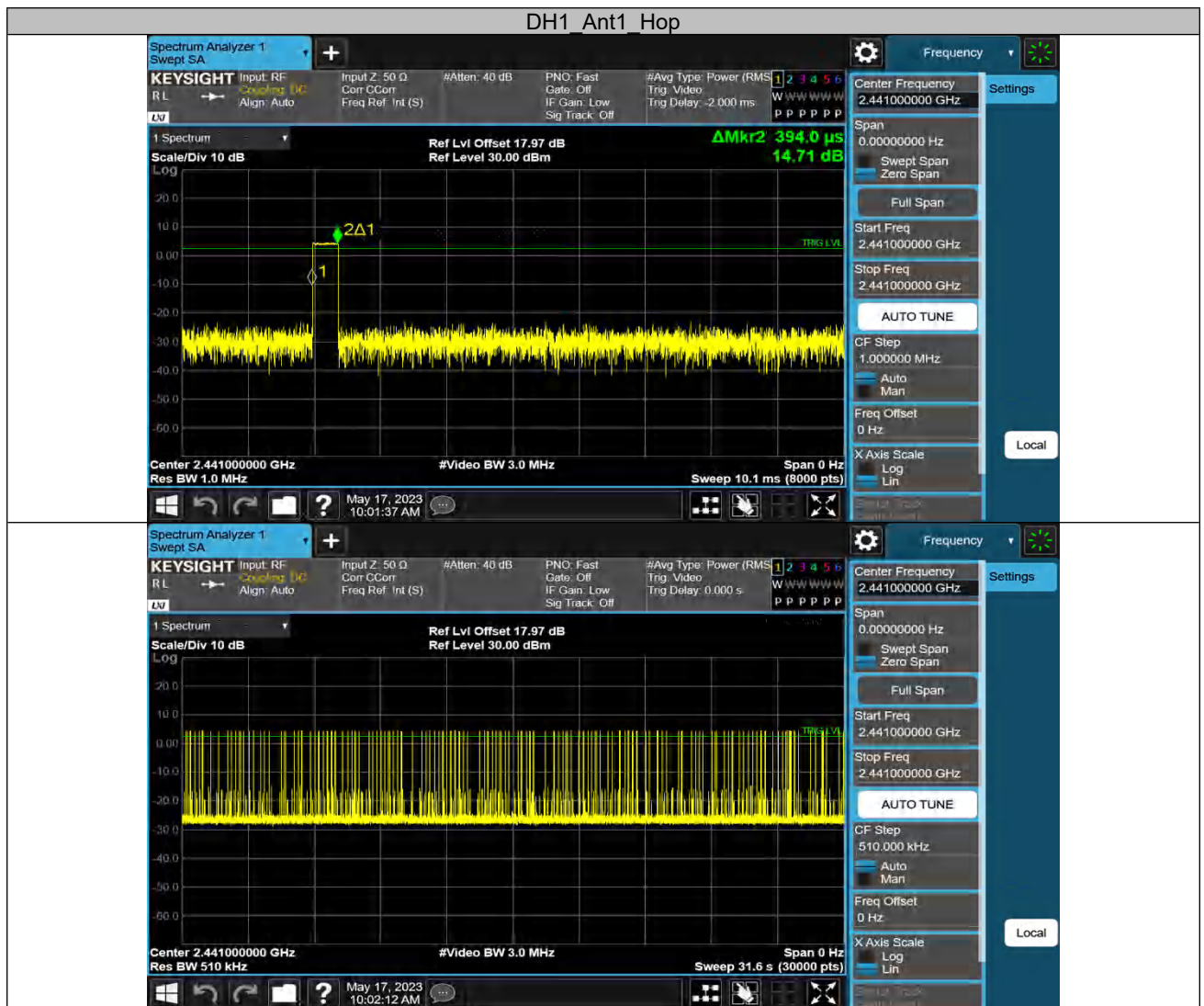
Appendix B.5: Test Results of Number of Hopping Frequency

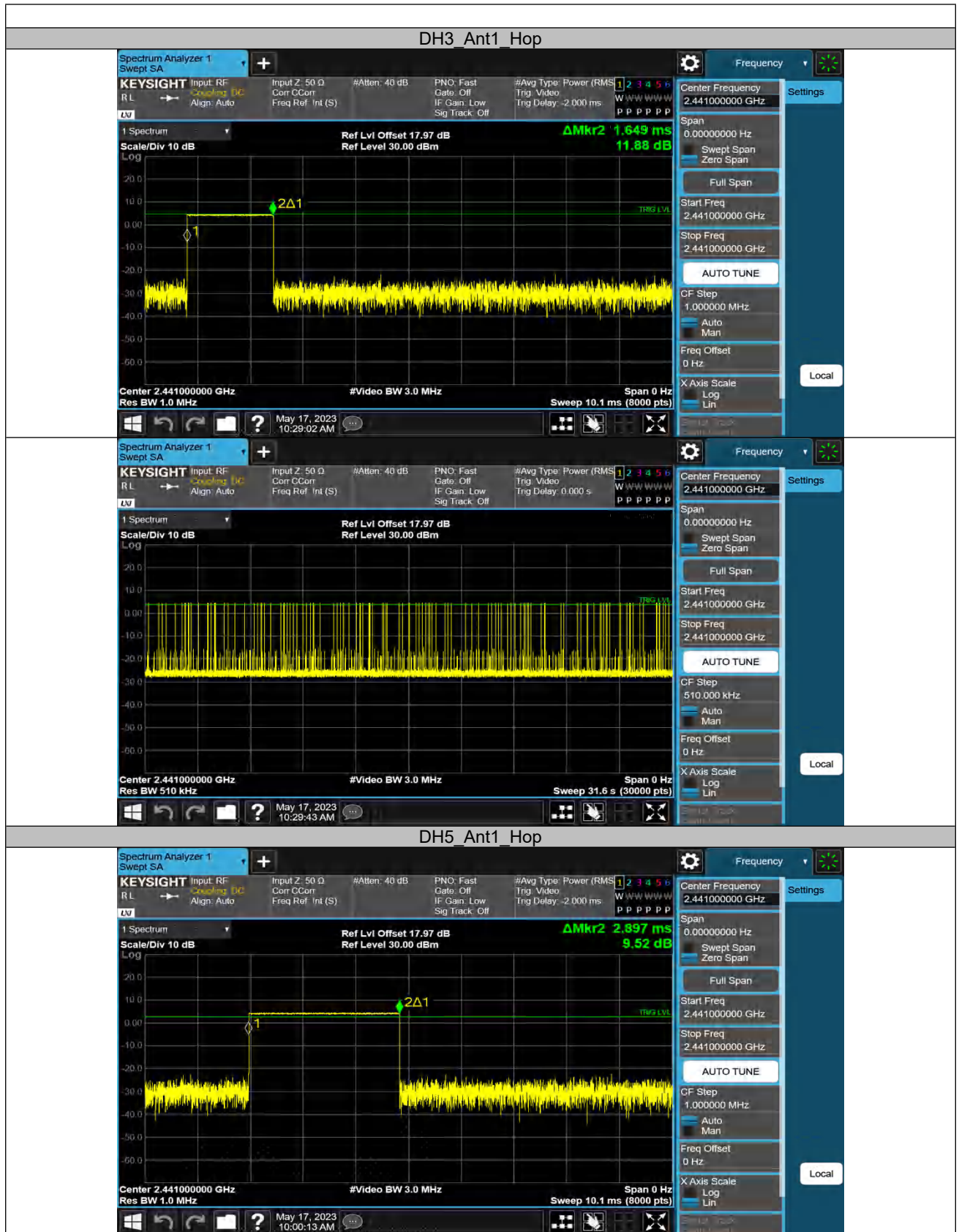
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



Appendix B.6: Test Results of Time of Occupancy

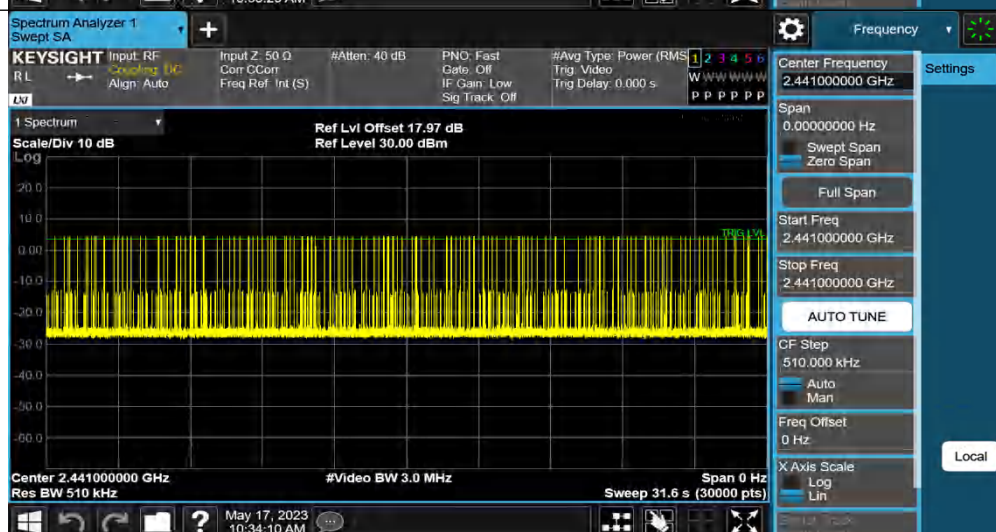
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.394	167	0.066	≤0.4	PASS
DH3	Ant1	Hop	1.649	108	0.178	≤0.4	PASS
DH5	Ant1	Hop	2.897	86	0.249	≤0.4	PASS
3DH1	Ant1	Hop	0.404	155	0.063	≤0.4	PASS
3DH3	Ant1	Hop	1.654	100	0.165	≤0.4	PASS
3DH5	Ant1	Hop	2.904	82	0.238	≤0.4	PASS

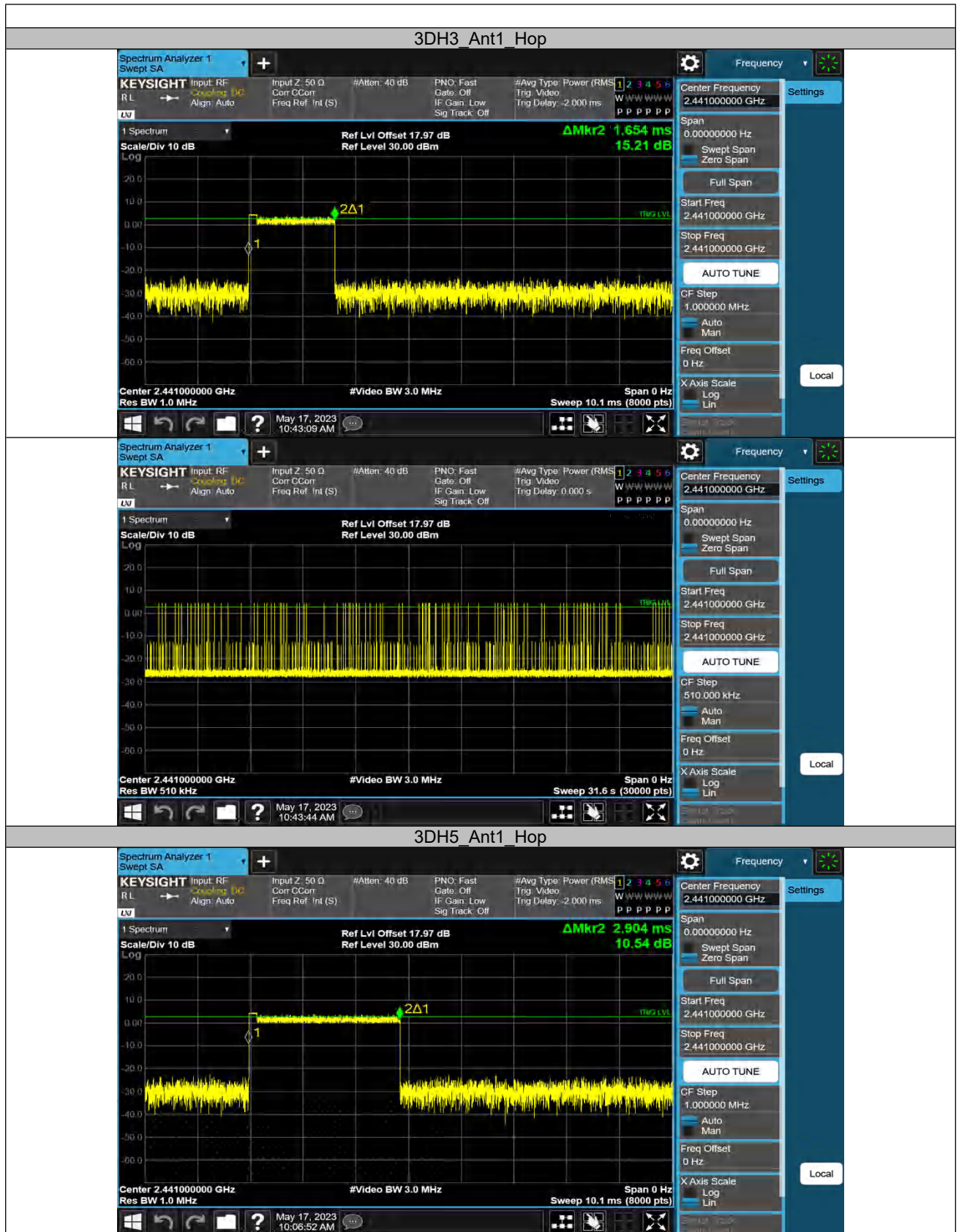






3DH1_Ant1_Hop







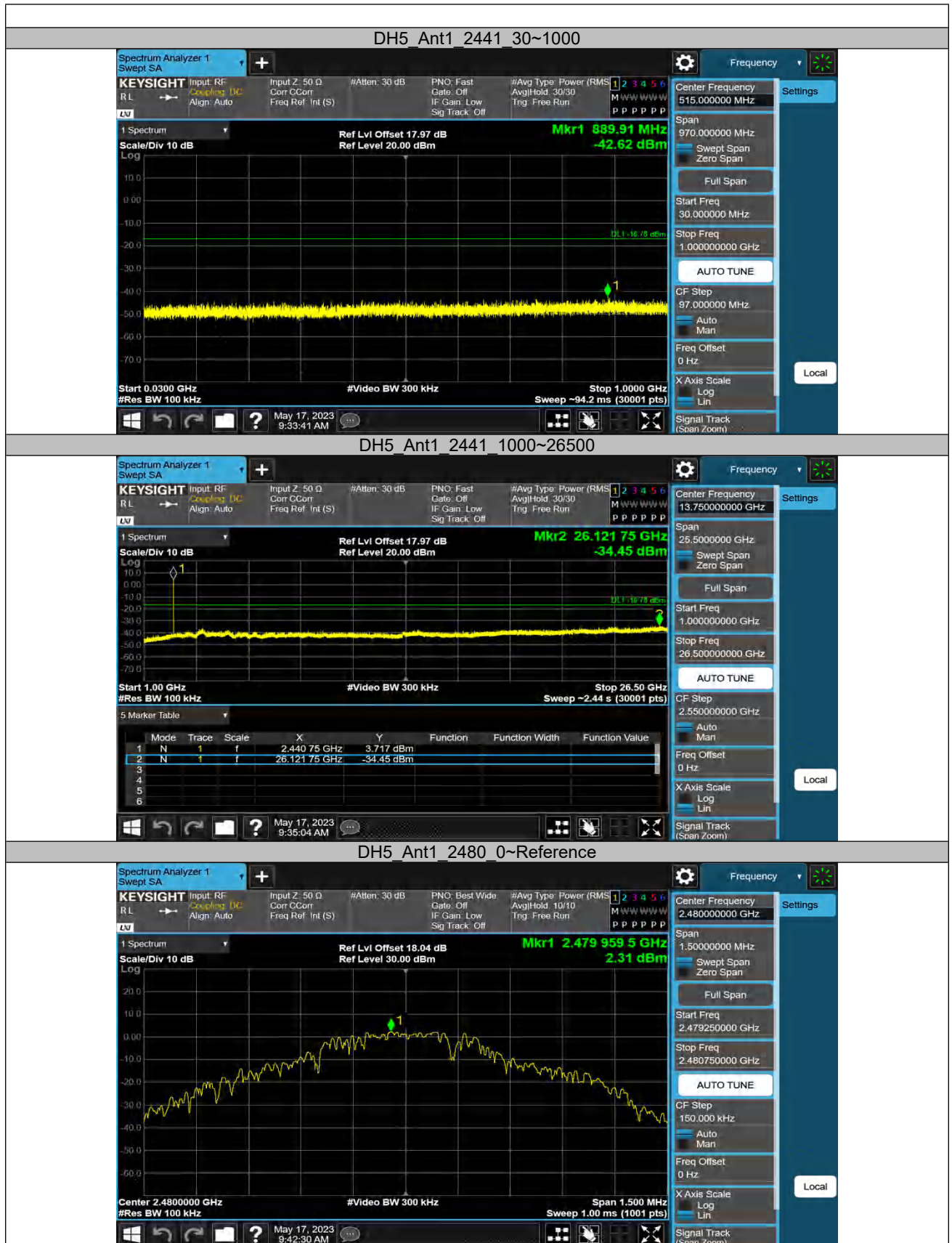
Appendix B.7: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted measurements

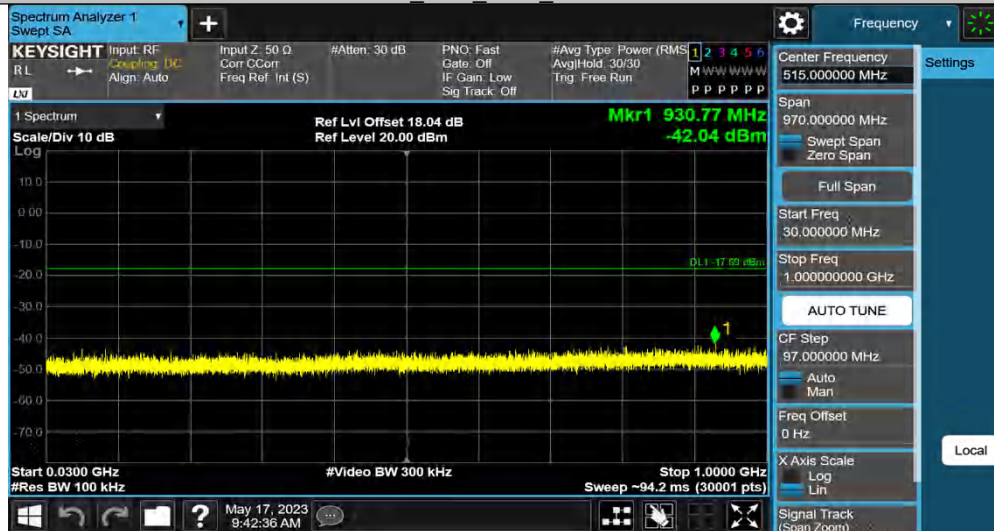
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	9.09	9.09	---	PASS
			30~1000	9.09	-41.16	≤-10.91	PASS
			1000~26500	9.09	-32.71	≤-10.91	PASS
		2441	Reference	3.22	3.22	---	PASS
			30~1000	3.22	-42.62	≤-16.78	PASS
			1000~26500	3.22	-34.45	≤-16.78	PASS
		2480	Reference	2.31	2.31	---	PASS
			30~1000	2.31	-42.04	≤-17.69	PASS
			1000~26500	2.31	-33.99	≤-17.69	PASS
3DH5	Ant1	2402	Reference	4.23	4.23	---	PASS
			30~1000	4.23	-40.4	≤-15.77	PASS
			1000~26500	4.23	-31.97	≤-15.77	PASS
		2441	Reference	4.08	4.08	---	PASS
			30~1000	4.08	-41.84	≤-15.92	PASS
			1000~26500	4.08	-33.65	≤-15.92	PASS
		2480	Reference	0.16	0.16	---	PASS
			30~1000	0.16	-41.38	≤-19.84	PASS
			1000~26500	0.16	-32.96	≤-19.84	PASS



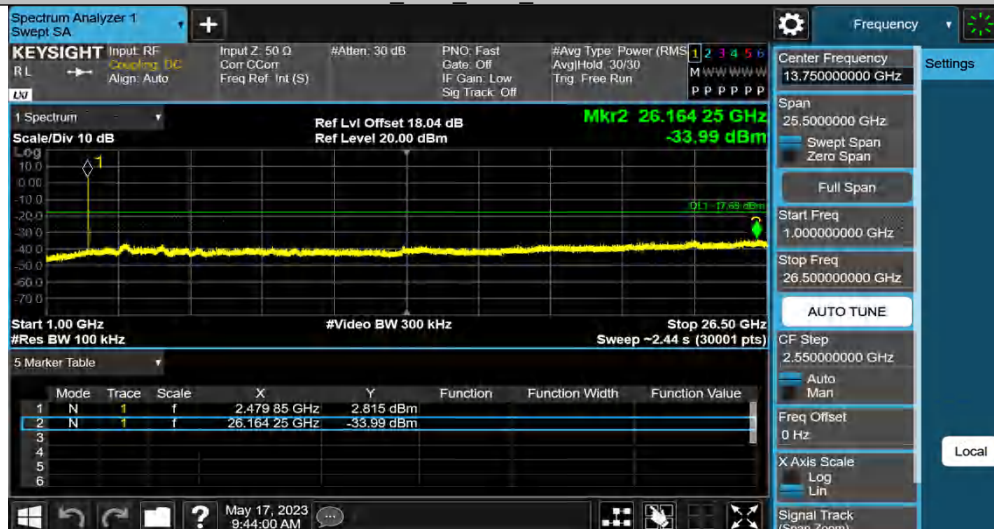




DH5_Ant1_2480_30~1000



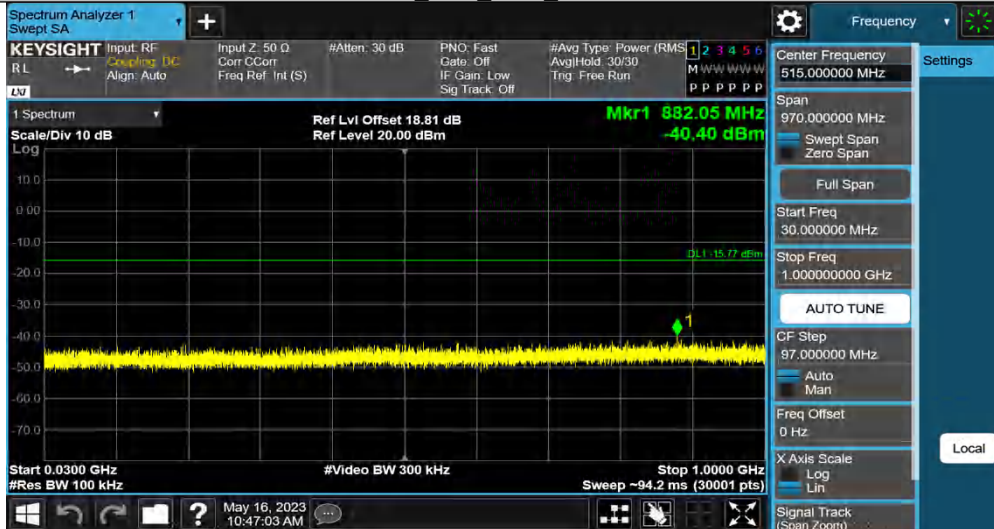
DH5_Ant1_2480_1000~26500



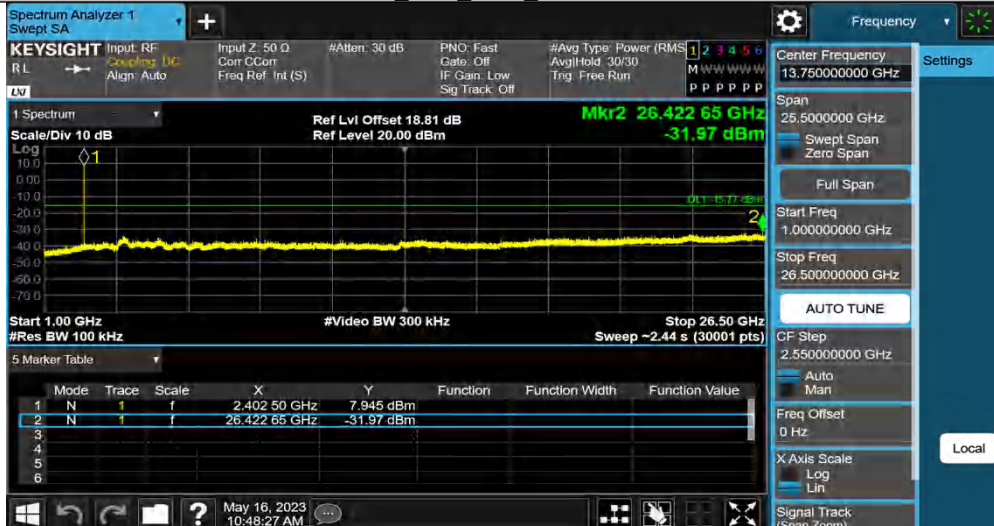
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



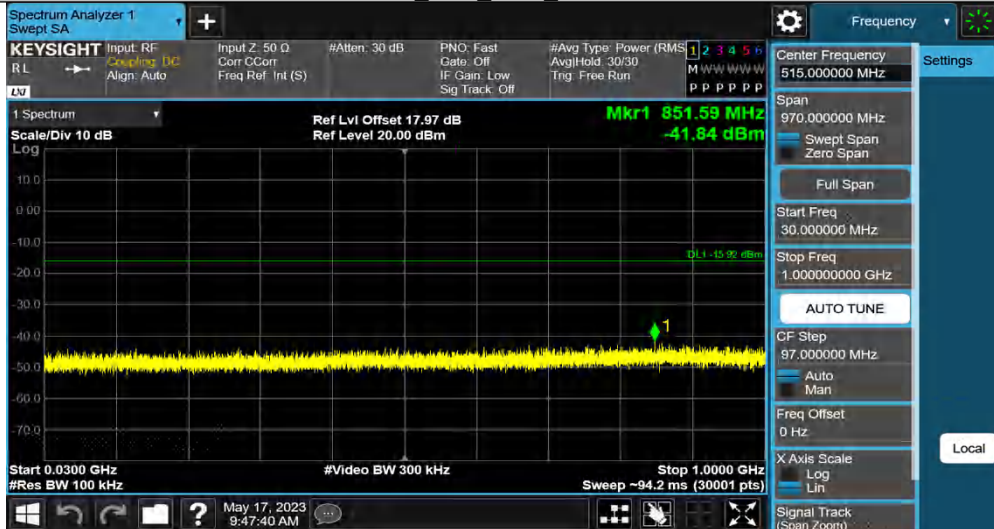
3DH5_Ant1_2402_1000~26500



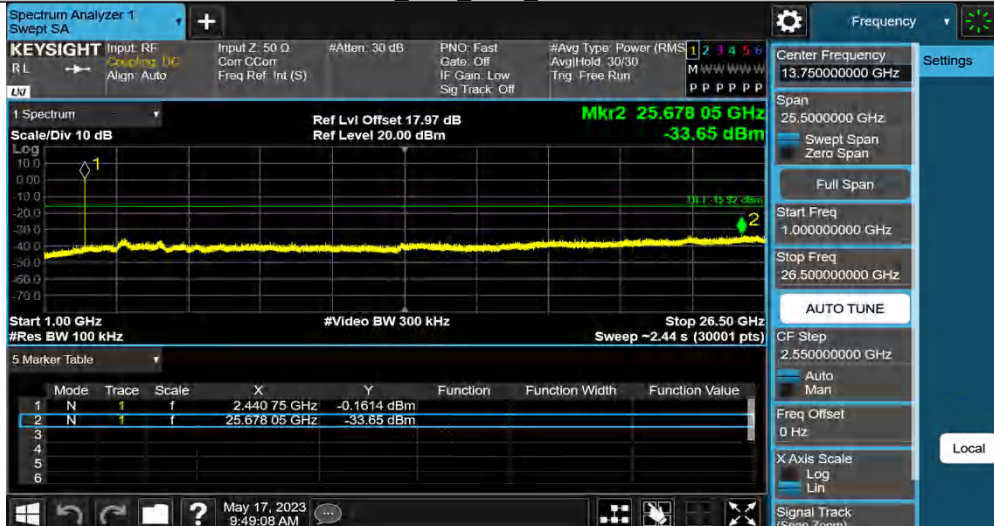
3DH5_Ant1_2441_0~Reference



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	3.492	-44.61	≤-16.51	PASS
DH5	Ant1	Low	2402	3.462	-44.49	≤-16.54	PASS
3DH5	Ant1	High	2480	3.733	-44.83	≤-16.27	PASS
3DH5	Ant1	High	2480	3.220	-43.21	≤-16.78	PASS
DH5	Ant1	Hopping	2402	3.122	-44.13	≤-16.88	PASS
DH5	Ant1	Hopping	2480	2.052	-43.15	≤-17.95	PASS
3DH5	Ant1	Hopping	2402	-2.385	-44.60	≤-22.39	PASS
3DH5	Ant1	Hopping	2480	-1.716	-44.81	≤-21.72	PASS



3DH5 Ant1 High 2402



3DH5 Ant1 High 2480



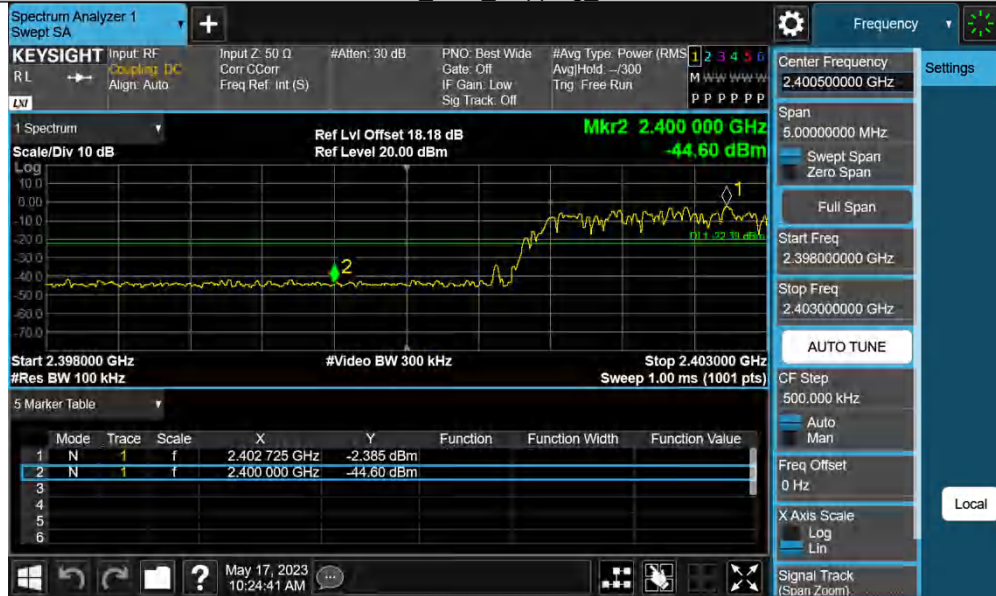
DH5 Ant1 Hopping 2402



DH5 Ant1 Hopping 2480



3DH5_Ant1_Hopping_2402



3DH5_Ant1_Hopping_2480



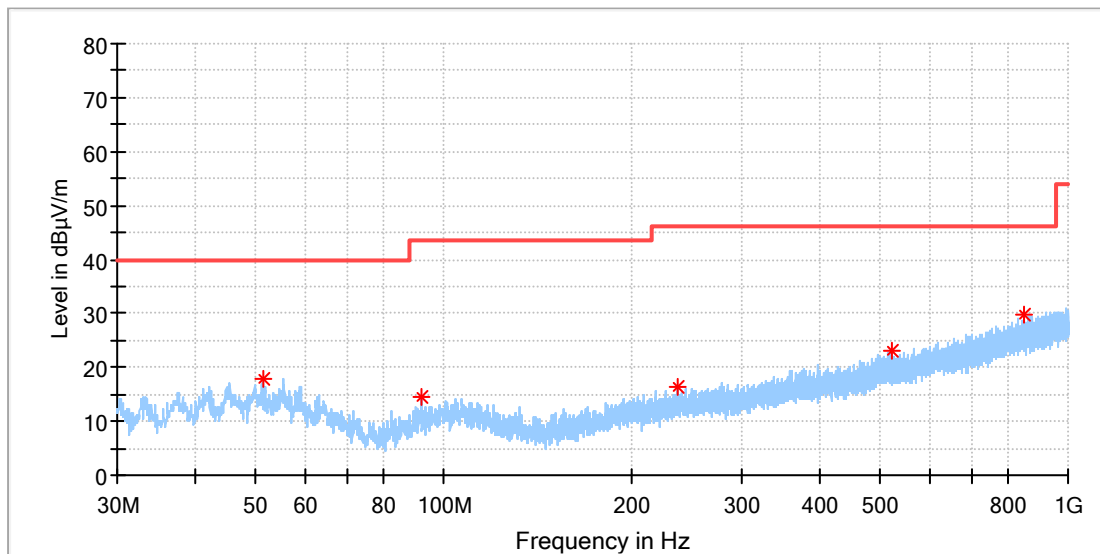
Appendix B.8: Test Results of Radiated Spurious Emissions

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:	LIVE770NC
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

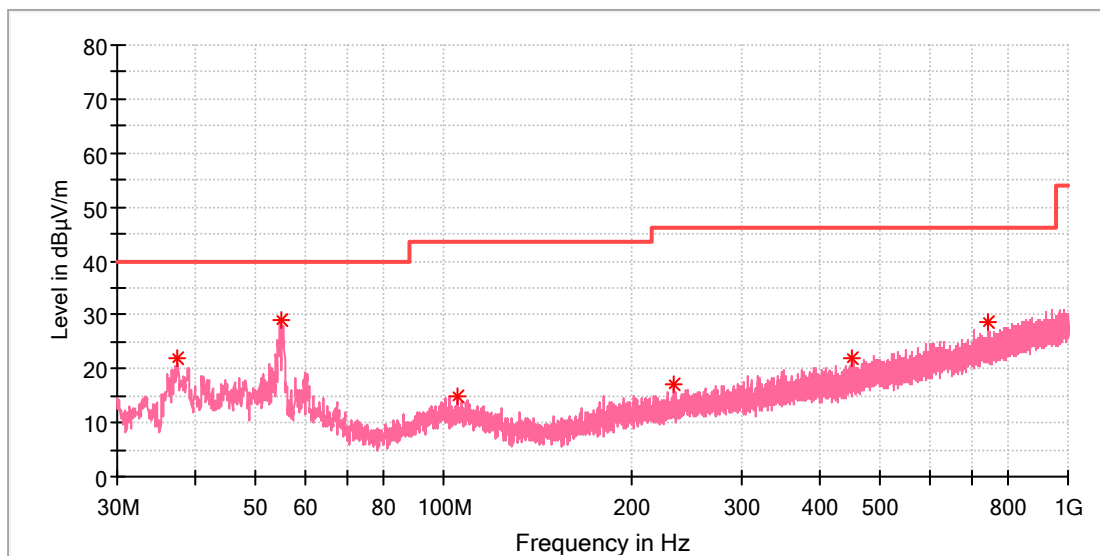


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.291500	17.82	40.00	22.18	100.0	H	24.0	-18.3
92.322500	14.39	43.50	29.11	100.0	H	256.0	-20.4
236.319000	16.28	46.00	29.72	100.0	H	12.0	-17.8
521.693000	22.90	46.00	23.10	100.0	H	63.0	-11.5
847.516000	29.78	46.00	16.22	100.0	H	97.0	-5.5

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

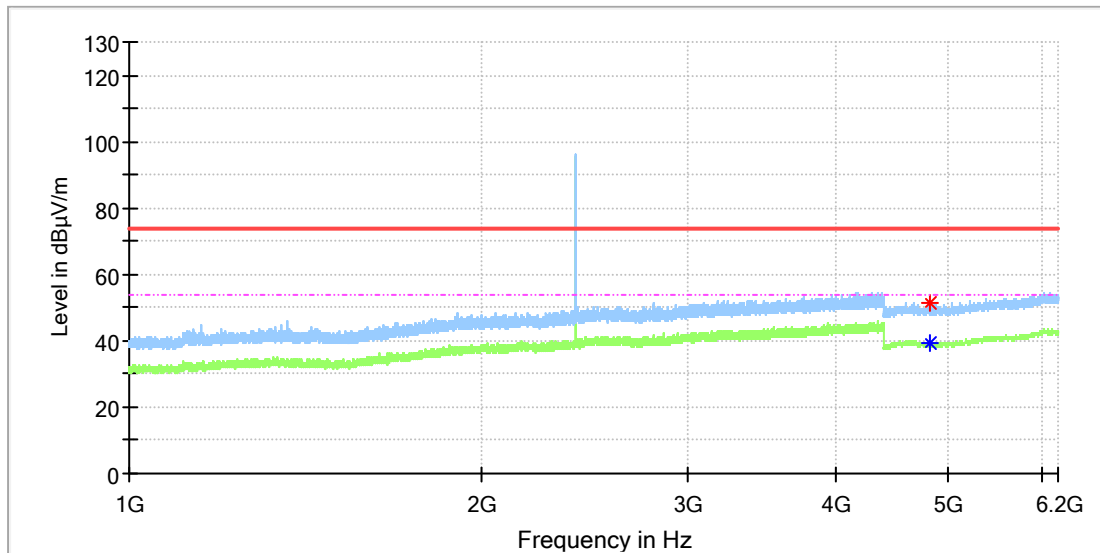
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.517500	22.12	40.00	17.88	100.0	V	239.0	-21.0
54.783500	28.95	40.00	11.05	100.0	V	51.0	-18.4
105.126500	14.82	43.50	28.68	100.0	V	119.0	-18.8
233.069500	17.08	46.00	28.92	100.0	V	65.0	-17.9
450.398000	22.08	46.00	23.92	100.0	V	302.0	-12.9
745.035500	28.83	46.00	17.17	100.0	V	183.0	-7.3

1GHz - 18GHz

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

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

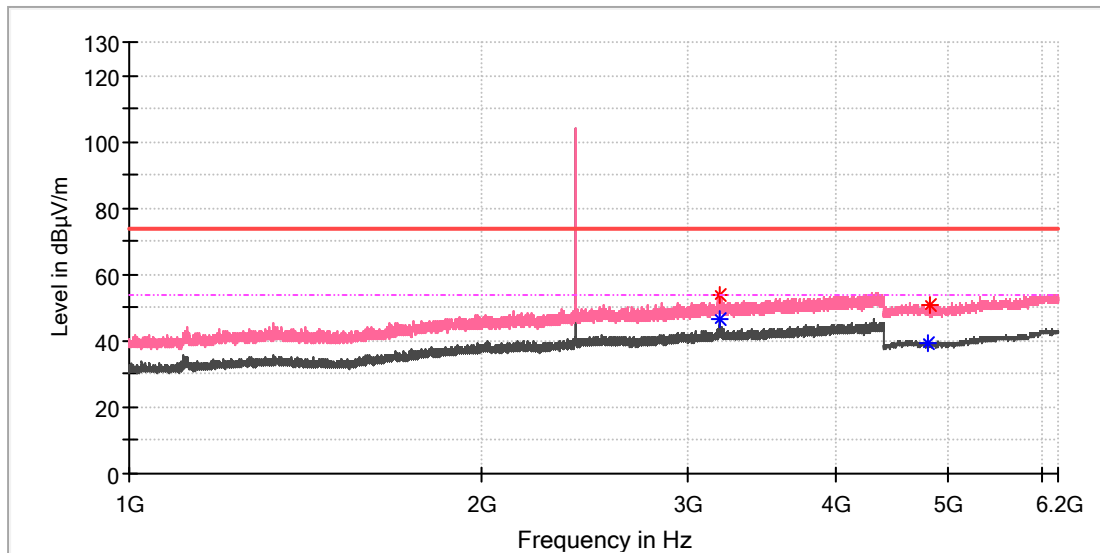


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4811.500000	51.20	---	74.00	22.80	150.0	H	224.0	11.8
4814.000000	---	39.24	54.00	14.76	150.0	H	344.0	11.8

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

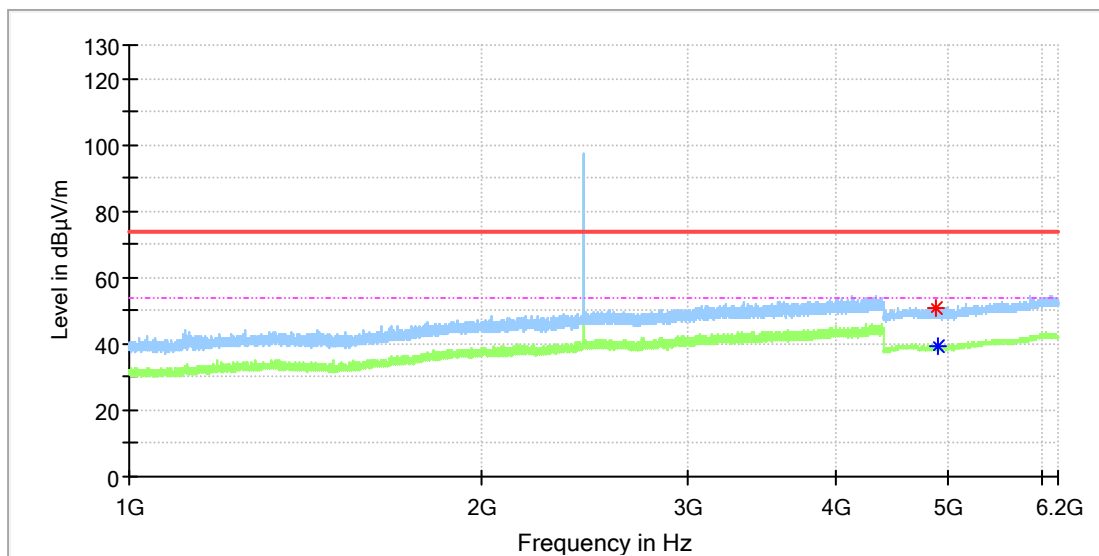


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3187.730000	53.85	---	74.00	20.15	150.0	V	175.0	8.6
3193.000000	---	46.43	54.00	7.57	150.0	V	175.0	8.6
4810.000000	---	39.51	54.00	14.49	150.0	V	320.0	11.8
4819.000000	50.85	---	74.00	23.15	150.0	V	339.0	11.8

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

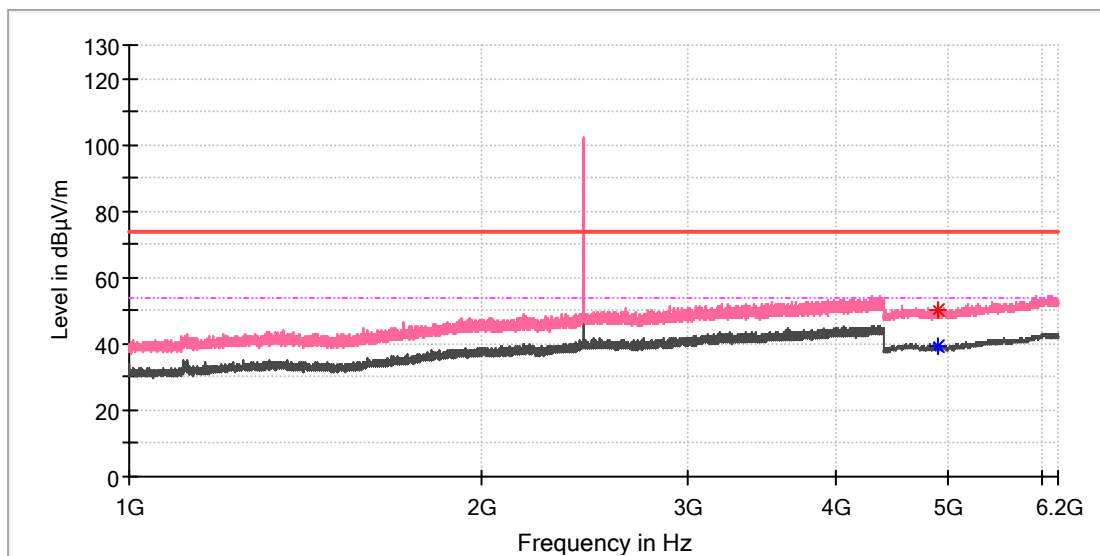


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4875.500000	50.83	---	74.00	23.17	150.0	H	174.0	11.8
4894.500000	---	39.21	54.00	14.79	150.0	H	31.0	11.8

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

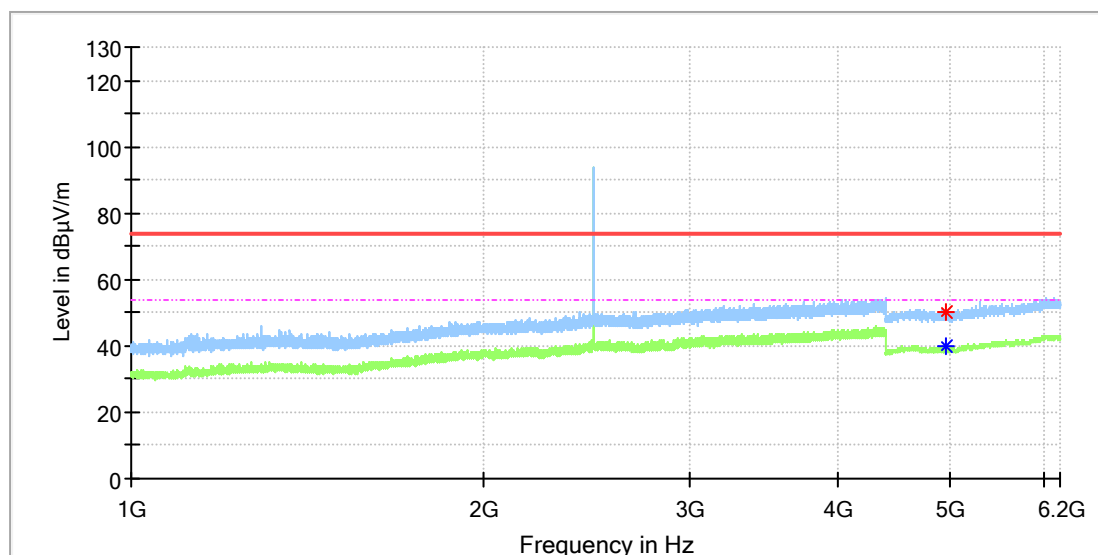


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4903.000000	---	39.28	54.00	14.72	150.0	V	103.0	11.8
4906.500000	50.15	---	74.00	23.85	150.0	V	49.0	11.8

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

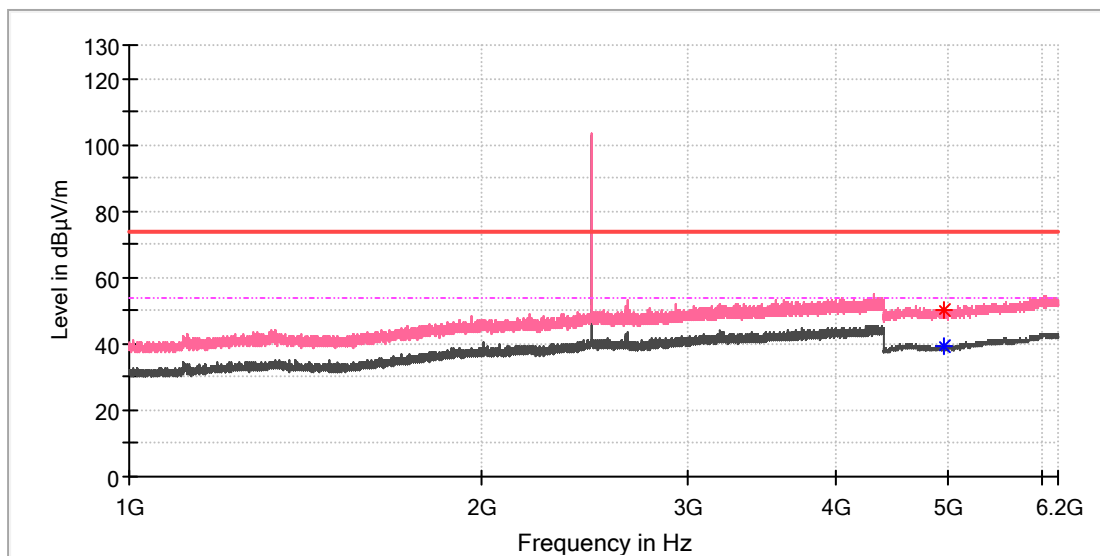


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4958.000000	---	39.63	54.00	14.37	150.0	H	334.0	11.8
4964.000000	50.28	---	74.00	23.72	150.0	H	169.0	11.8

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

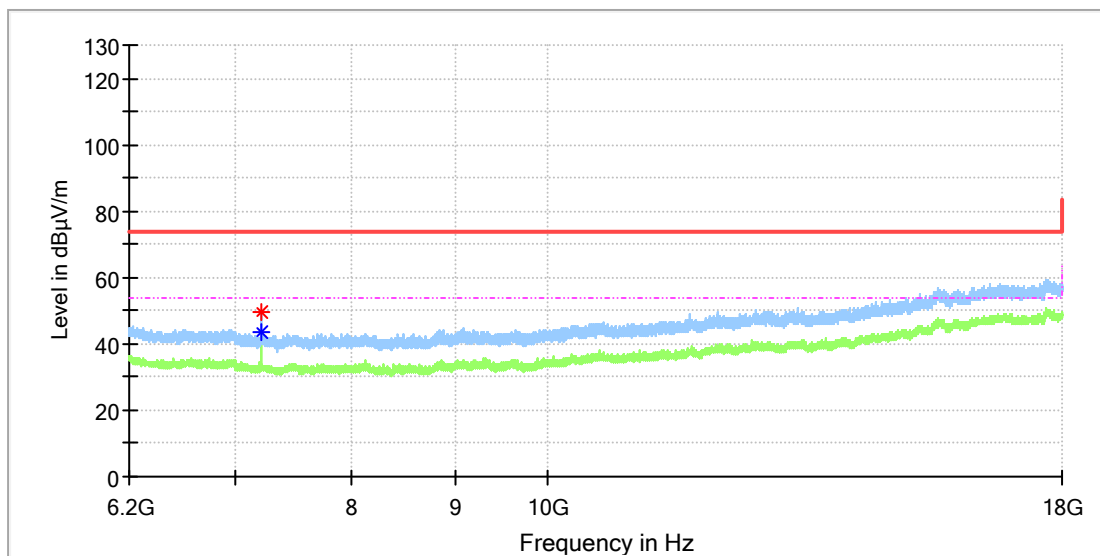


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4949.000000	50.18	---	74.00	23.82	150.0	V	196.0	11.8
4950.500000	---	39.24	54.00	14.76	150.0	V	182.0	11.8

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

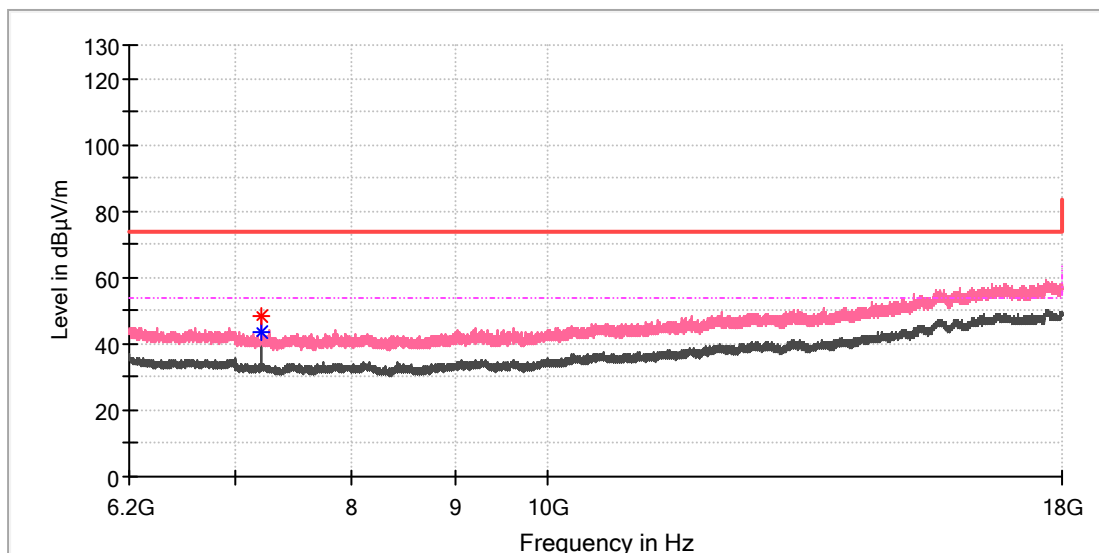


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	49.52	---	74.00	24.48	150.0	H	230.0	8.8
7205.950000	---	43.47	54.00	10.53	150.0	H	230.0	8.8

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

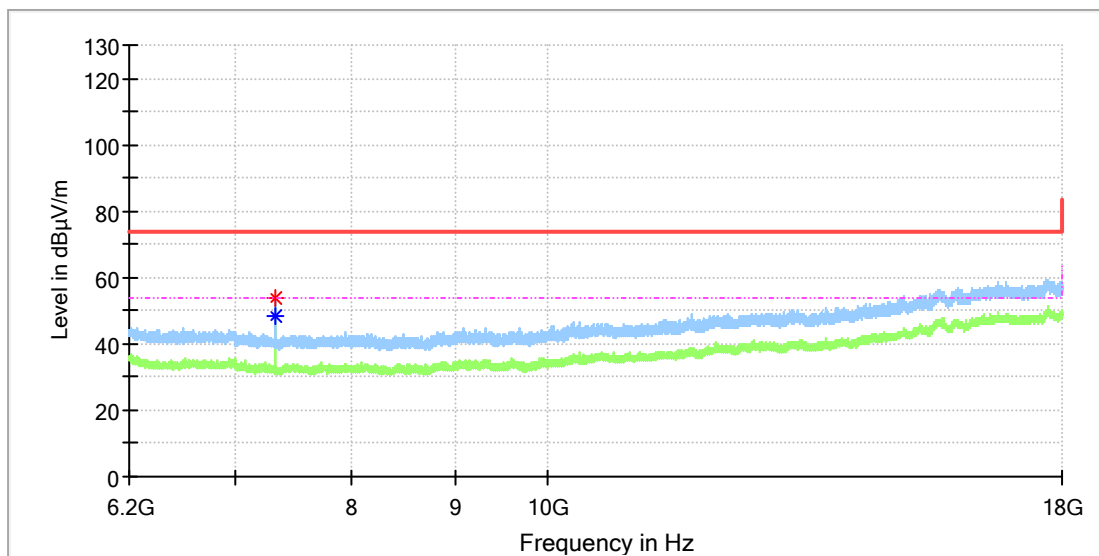


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	48.44	---	74.00	25.56	150.0	V	297.0	8.8
7205.458333	---	43.38	54.00	10.62	150.0	V	297.0	8.8

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

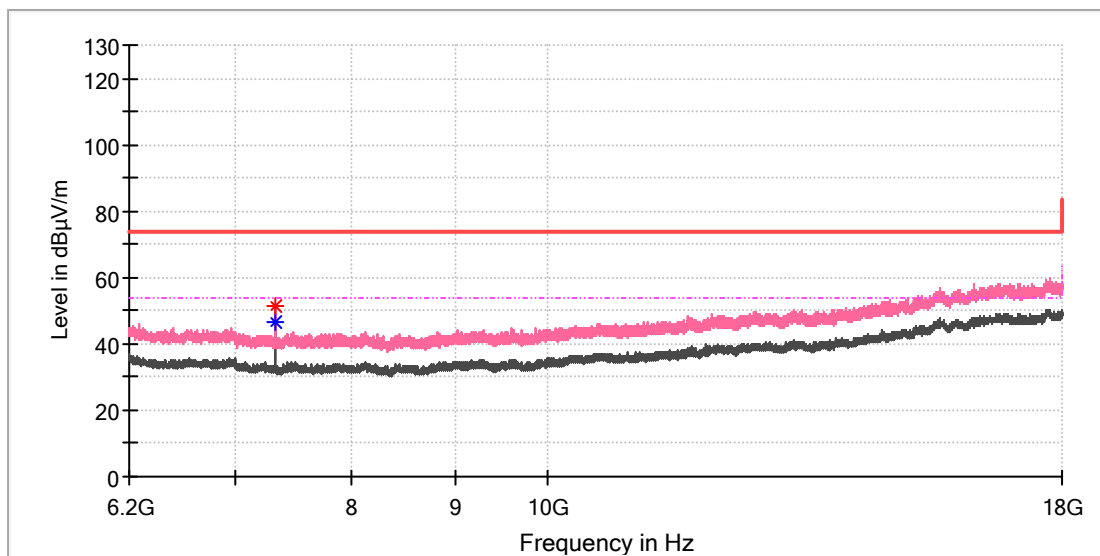


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.475000	53.68	---	74.00	20.32	150.0	H	251.0	8.2
7322.475000	---	48.52	54.00	5.48	150.0	H	251.0	8.2

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

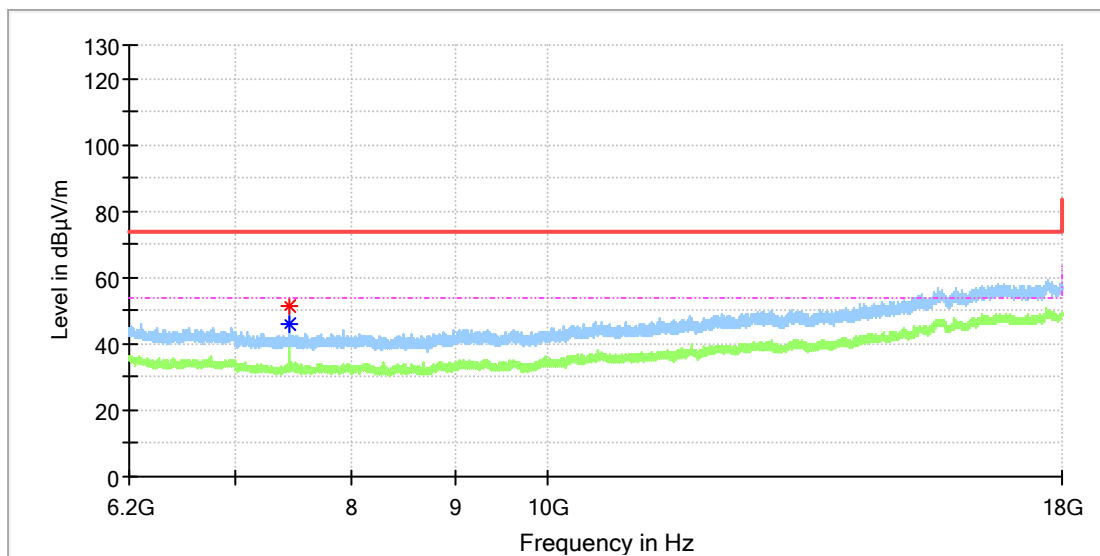


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.475000	---	46.69	54.00	7.31	150.0	V	299.0	8.2
7322.966667	51.54	---	74.00	22.46	150.0	V	299.0	8.2

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

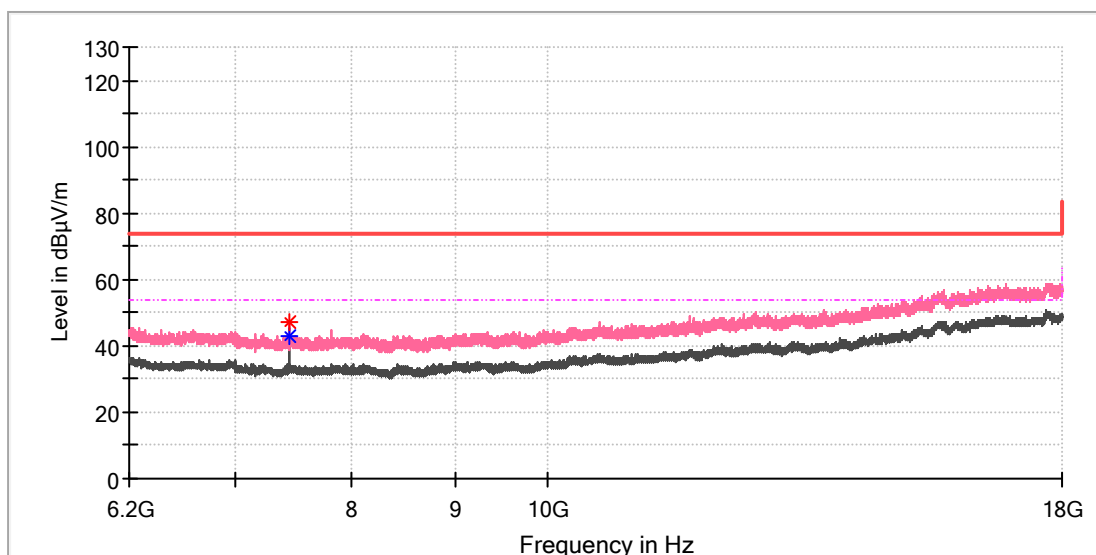


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	46.24	54.00	7.76	150.0	H	256.0	8.4
7439.983333	51.10	---	74.00	22.90	150.0	H	256.0	8.4

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



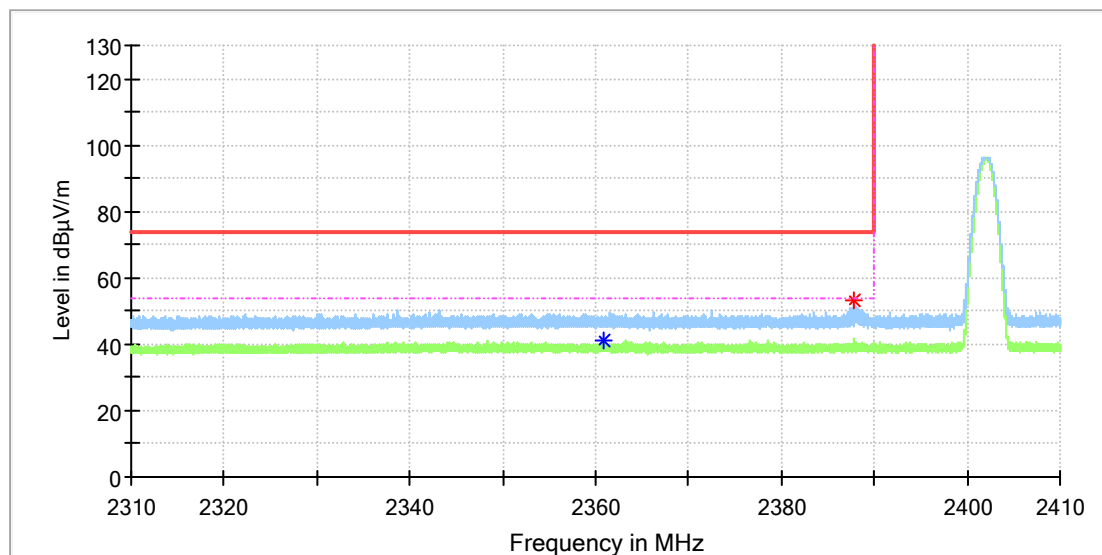
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.983333	47.37	---	74.00	26.63	150.0	V	301.0	8.4
7439.983333	---	43.07	54.00	10.93	150.0	V	301.0	8.4

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

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

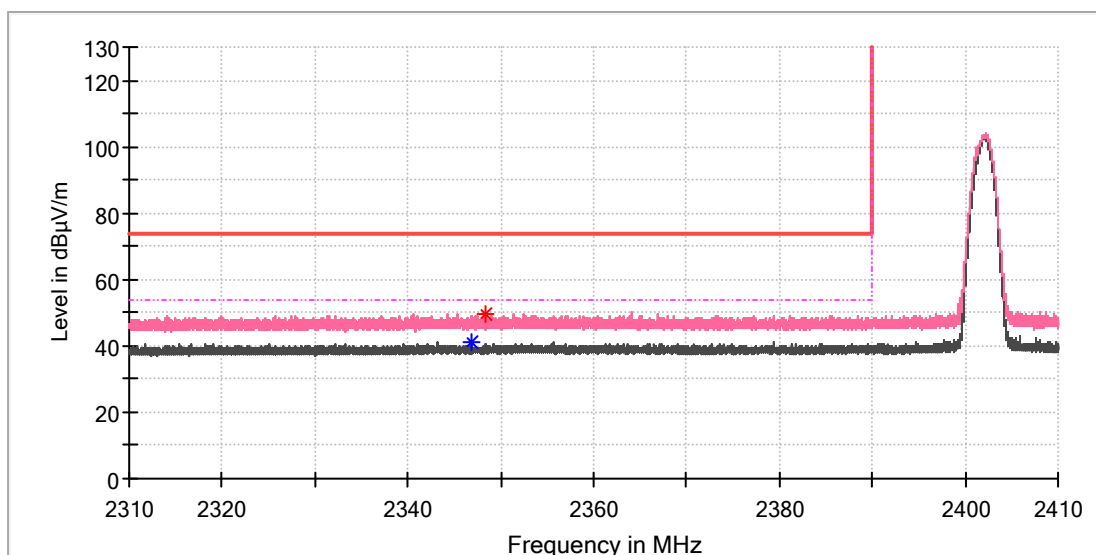


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2360.910000	---	41.02	54.00	12.98	150.0	H	284.0	6.9
2387.765000	52.93	---	74.00	21.07	150.0	H	258.0	7.0

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

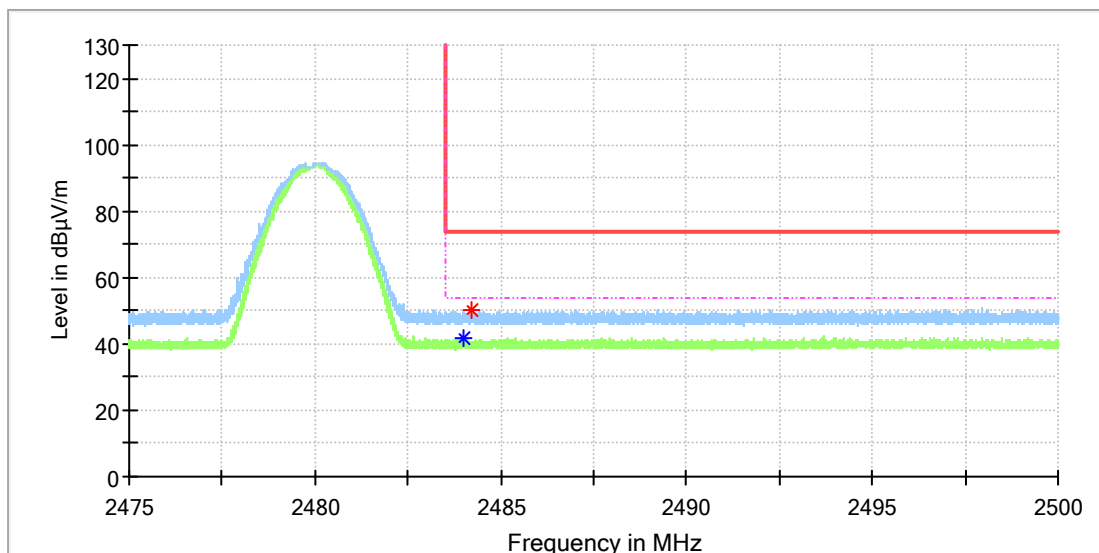


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2346.890000	---	41.17	54.00	12.83	150.0	V	329.0	6.9
2348.465000	49.55	---	74.00	24.45	150.0	V	359.0	6.9

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168425866/A003470422-010
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

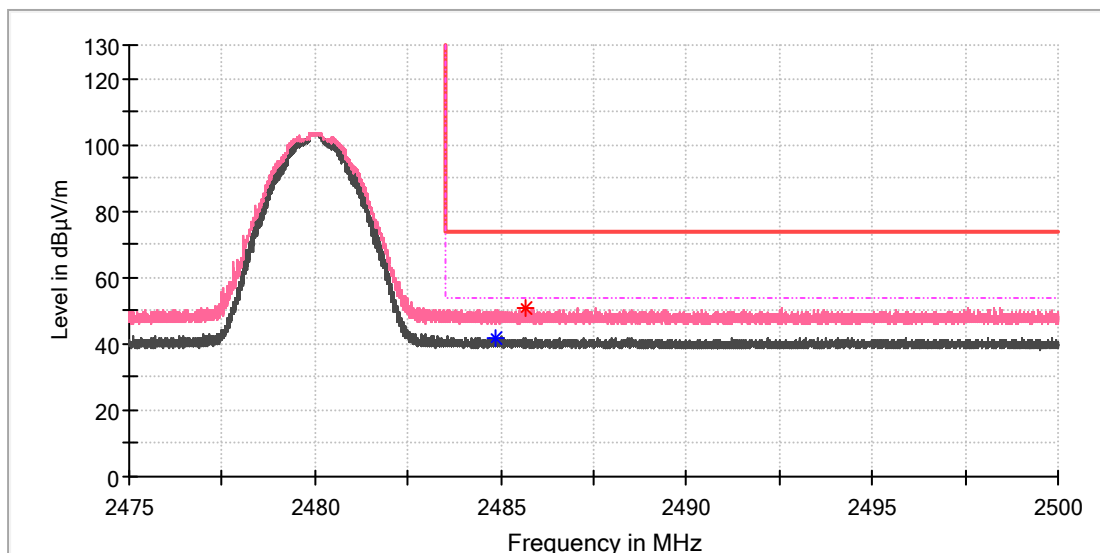


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.973750	---	41.59	54.00	12.41	150.0	H	245.0	7.4
2484.192500	50.08	---	74.00	23.92	150.0	H	351.0	7.4

EUT Information

EUT Name:	Bluetooth Headset
Model:	LIVE770NC
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168425866/A003470422-010
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)
2484.855000	---	41.90	54.00	12.10	150.0	V	60.0	7.4
2485.675000	50.98	---	74.00	23.02	150.0	V	199.0	7.4