

Prüfbericht-Nr.: Test report no.:	CN25JX62 001	Auftrags-Nr.: Order no.:	168522187	Page 1 of 25 Seite 1 von 25
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-01-03	
Auftraggeber: Client:	Bosch Security Systems LLC 130 Perinton Parkway, Fairport, NY 14450, USA			
Prüfgegenstand: Test item:	POWERED LOUDSPEAKER			
Bezeichnung / Typ-Nr.: Identification / Type no.:	EVIVA12P, EVIVA15P (Trademark: Electro-Voice)			
Auftrags-Inhalt: Order content:	Type test			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 March 2019			
Wareneingangsdatum: Date of sample receipt:	2025-01-03	Refer to photos document		
Prüfmuster-Nr.: Test sample no.:	A003898369-002, A003902133-001			
Prüfzeitraum: Testing period:	2025-01-03 – 2025-02-28			
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:			genehmigt von: authorized by:	
Datum: Date:	2025-03-06 Signed by: Harry W. C. Wu		Ausstellungsdatum: Issue date:	2025-03-06 Signed by: Alex Lan
Stellung / Position:	Project Manager		Stellung / Position:	Authorizer
Sonstiges / Other:	FCC ID: ESV-EVIVA IC: 1249A-EVIVA HVIN: EVIVA12P, EVIVA15P			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Remarks
Anmerkungen

- | | |
|----------|--|
| 1 | <p>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</p> <p>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</p> <p><i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</i></p> <p><i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
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| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</p> <p><i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i></p> |
| 4 | <p>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</p> <p><i>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</i></p> |

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 99% BANDWIDTH

RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.5 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.6 20dB BANDWIDTH

RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION

RESULT: Pass

5.1.8 FREQUENCY STABILITY

RESULT: Pass

5.1.9 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.10 TIME OF OCCUPANCY

RESULT: Pass

5.1.11 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

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

Appendix A: 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	25.09.2025
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	25.09.2025
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	25.09.2025
DC Power Supply	Keysight	E3642A	MY61276100	25.09.2025
Wireless Connectivity Tester	R&S	CMW270	102505	25.09.2025
Power Control Unit	Tonscend	JS0806-4ADC	N/A	25.09.2025
Automation Control Unit	Tonscend	JS0806-2	21C8060396	25.09.2025
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	28.02.2025
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	28.09.2025
Signal Analyzer	R&S	FSV 40	101439	28.09.2025
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	28.09.2025
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	28.09.2025
Amplifier	R&S	SCU-18F	180070	28.09.2025
Amplifier	R&S	SCU40A	100475	28.09.2025
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	27.09.2026
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	27.09.2026
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.09.2026
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	27.09.2026
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	13.09.2027
Conduct Emissions Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR3	102428	22.07.2025
Artificial Mains Network	R&S	ENV216	102333	22.07.2025
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

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 is a Bluetooth speaker, which supports Classic Bluetooth technology.

The models EVIVA12P, EVIVA15P are identical in electrical circuit design and PCB layout. The difference is in the size of enclosure, size of low-frequency speaker, antenna gain and model number.

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	POWERED LOUDSPEAKER
Type Designation	EVIVA12P, EVIVA15P
Trademark	Electro-Voice
FCC ID	ESV-EVIVA
IC	1249A-EVIVA
HVIN	EVIVA12P, EVIVA15P
Extreme Temperature Range	0°C to +45°C
Operating Voltage	Input: 100-240 V~, 50-60 Hz, 1.0-0.5 A
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	2.38 dBi for EVIVA12P 2.43 dBi for EVIVA15P (Provided by the Client)

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	--	--

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

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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 EVIVA12P. Only Transmitter Unwanted Emissions in the Spurious Domain and Receiver Spurious Emissions were applied on model EVIVA15P.

4.3 Special Accessories and Auxiliary Equipment

Table 4: 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)

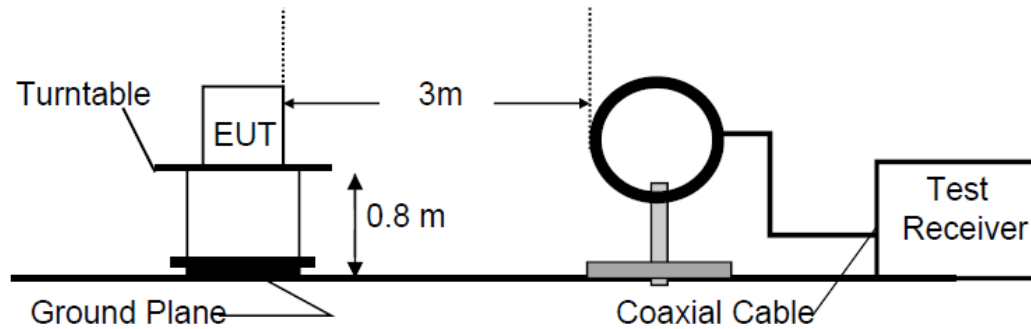


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

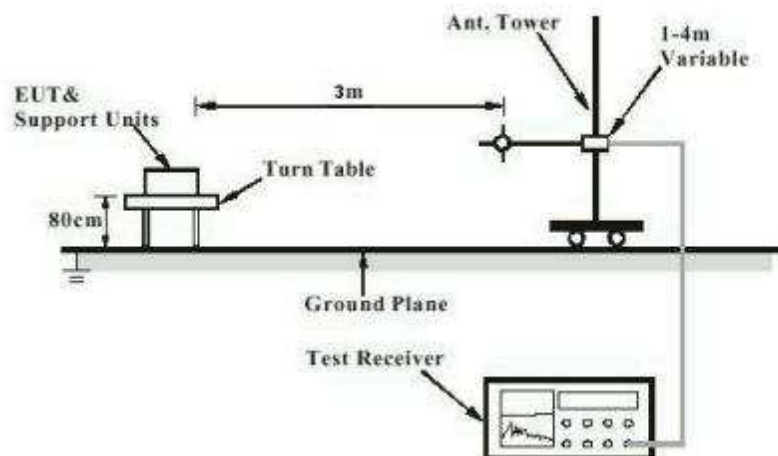


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

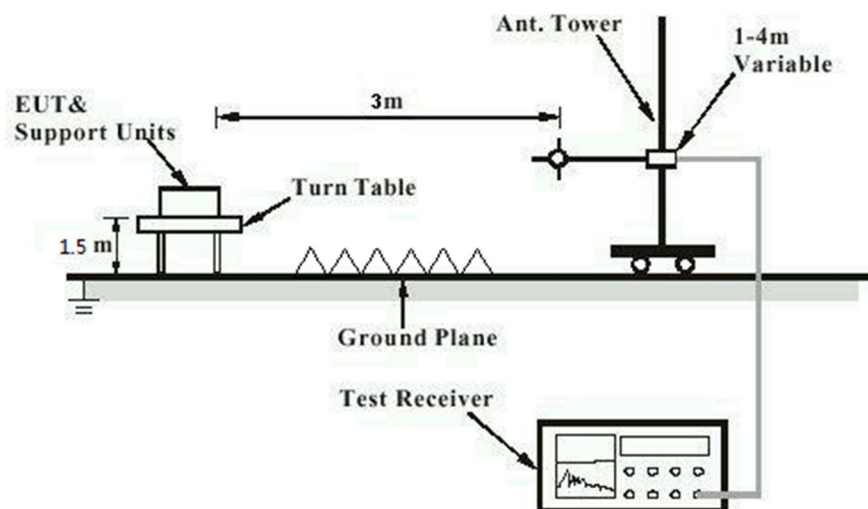


Diagram of Measurement Configuration for Conducted Transmitter Measurement

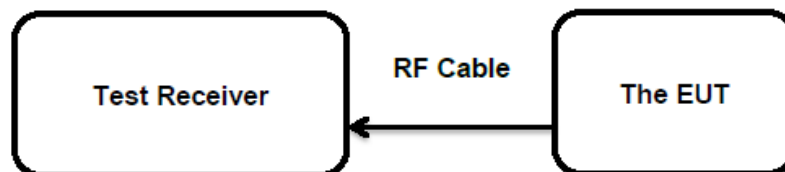
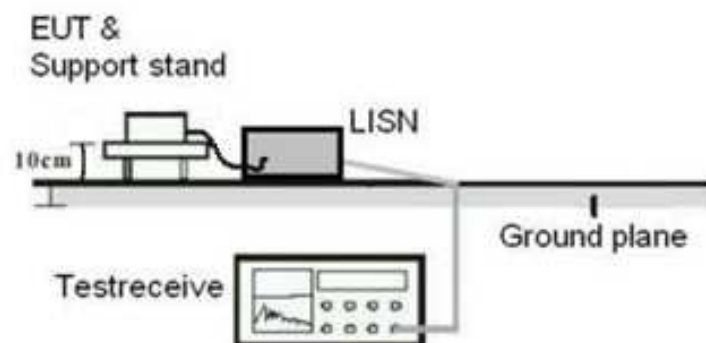


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



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5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 8.3

According to the manufacturer declared, the EUT has one FPC antenna, the directional gain of antennas is 2.38dBi for model: EVIVA12P, 2.43dBi for model: EVIVA15P and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Conducted Output Power

RESULT:
Pass
Test Specification

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

Test Setup

Date of testing	2025-01-03 to 2025-02-28
Input voltage	AC 120V, 60Hz
Operation mode	A.1
Test channel	Low / Middle / High
Ambient temperature	24.8 °C
Relative humidity	49.5 %
Atmospheric pressure	101 kPa

Table 5: Test Result of Maximum Conducted Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BR	2402	4.45	0.00279	< 0.125
	2441	3.48	0.00223	
	2480	2.32	0.00171	
EDR	2402	3.92	0.00247	
	2441	3.37	0.00217	
	2480	2.28	0.00169	
Maximum Measured Value		4.45	0.00279	

Note: The cable loss is taken into account in results and the maximum e.i.r.p.: 6.83dBm for EVIVA12P and 6.88dBm for EVIVA15P, less than 4W(36dBm).

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5.1.3 99% Bandwidth

RESULT:
Pass
Test Specification

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

Test Setup

Date of testing : 2025-01-03 to 2025-02-28
Input voltage : AC 120V, 60Hz
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 24.8 °C
Relative humidity : 49.5 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B

Table 6: Test Result of 99% Bandwidth

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
BR	2402	0.83164	/
	2441	0.84168	
	2480	0.83577	
EDR	2402	1.1512	/
	2441	1.1344	
	2480	1.1561	

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

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5.1.4 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT: **Pass**

Test Specification

Test standard : FCC Part 15.247(d)
RSS-247 Clause 5.5
Basic standard : ANSI C63.10: 2013
Limits : 20dB (below that in the 100kHz bandwidth within the band
that contains the highest level of the desired power);
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-01-03 to 2025-02-28
Input voltage : AC 120V, 60Hz
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 24.8 °C
Relative humidity : 49.5 %
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	: 2025-01-03 to 2025-02-28
Input voltage	: AC 120V, 60Hz
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

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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 : 2025-01-03 to 2025-02-28

Input voltage : AC 120V, 60Hz

Operation mode : A.1

Test channel : Low / Middle / High

Ambient temperature : 24.8 °C

Relative humidity : 49.5 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B

Table 7: Test Result of -20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (MHz)	2/3 of 20dB Bandwidth (MHz)	Limit (MHz)
BR	2402	0.891	0.594	/
	2441	0.921	0.614	
	2480	0.891	0.594	
EDR	2402	1.230	0.820	/
	2441	1.239	0.826	
	2480	1.230	0.820	

Prüfbericht-Nr.: CN25JX62 001
Test report no.:Seite 20 von 25
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5.1.7 Carrier Frequency Separation

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

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

Basic standard : ANSI C63.10: 2013

Limits : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater

Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-01-03 to 2025-02-28

Input voltage : AC 120V, 60Hz

Operation mode : B

Test channel : Low / Middle / High

Ambient temperature : $24.8\text{ }^{\circ}\text{C}$

Relative humidity : 49.5%

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B

Table 8: Test Result of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.958	≥ 0.614	PASS
3DH5	Ant1	Hop	1.252	≥ 0.826	PASS

Prüfbericht-Nr.: CN25JX62 001
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 : 2025-01-03 to 2025-02-28
Input voltage : AC 120V, 60Hz
Operation mode : B
Ambient temperature : 24.8 °C
Relative humidity : 49.5 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B

Prüfbericht-Nr.: CN25JX62 001
Test report no.:

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5.1.9 Number of Hopping Frequency

RESULT: **Pass**
Test Specification

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

Basic standard : ANSI C63.10: 2013

Limits : ≥ 15 non-overlapping channels

Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-01-03 to 2025-02-28

Input voltage : AC 120V, 60Hz

Operation mode : B

Ambient temperature : 24.8 °C

Relative humidity : 49.5 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Table 9: Test Result of Number of Hopping Frequency, Left earbud

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

Prüfbericht-Nr.: CN25JX62 001
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 : 2025-01-03 to 2025-02-28
Input voltage : AC 120V, 60Hz
Operation mode : B
Test channel : Low / Middle / High
Ambient temperature : 24.8 °C
Relative humidity : 49.5 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht-Nr.: CN25JX62 001
Test report no.:

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5.1.11 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.207(a)
RSS-Gen Clause 8.8
Basic standard : ANSI C63.10: 2013
Frequency range : 0.15 – 30MHz
Limits : FCC Part 15.207(a)
RSS-Gen Table 4
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-01-03 to 2025-02-28
Input voltage : AC 120V, 60Hz
Operation mode : B
Earthing : Not connected
Ambient temperature : Refer to test result
Relative humidity : Refer to test result
Atmospheric pressure : Refer to test result

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.

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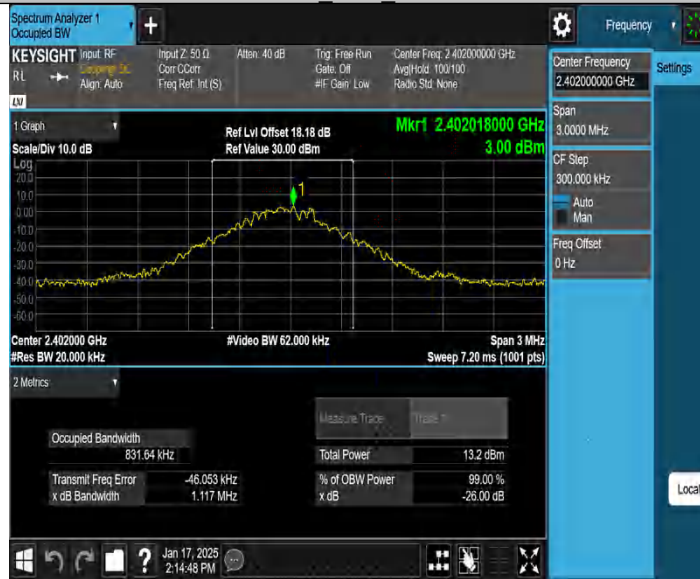
Appendix B: Test Results of Classical Bluetooth

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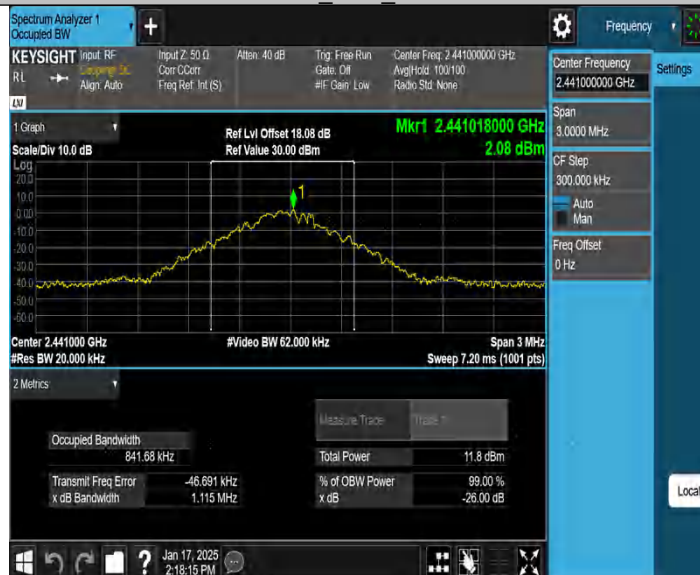
Appendix B.1: Test Results of 99% Bandwidth

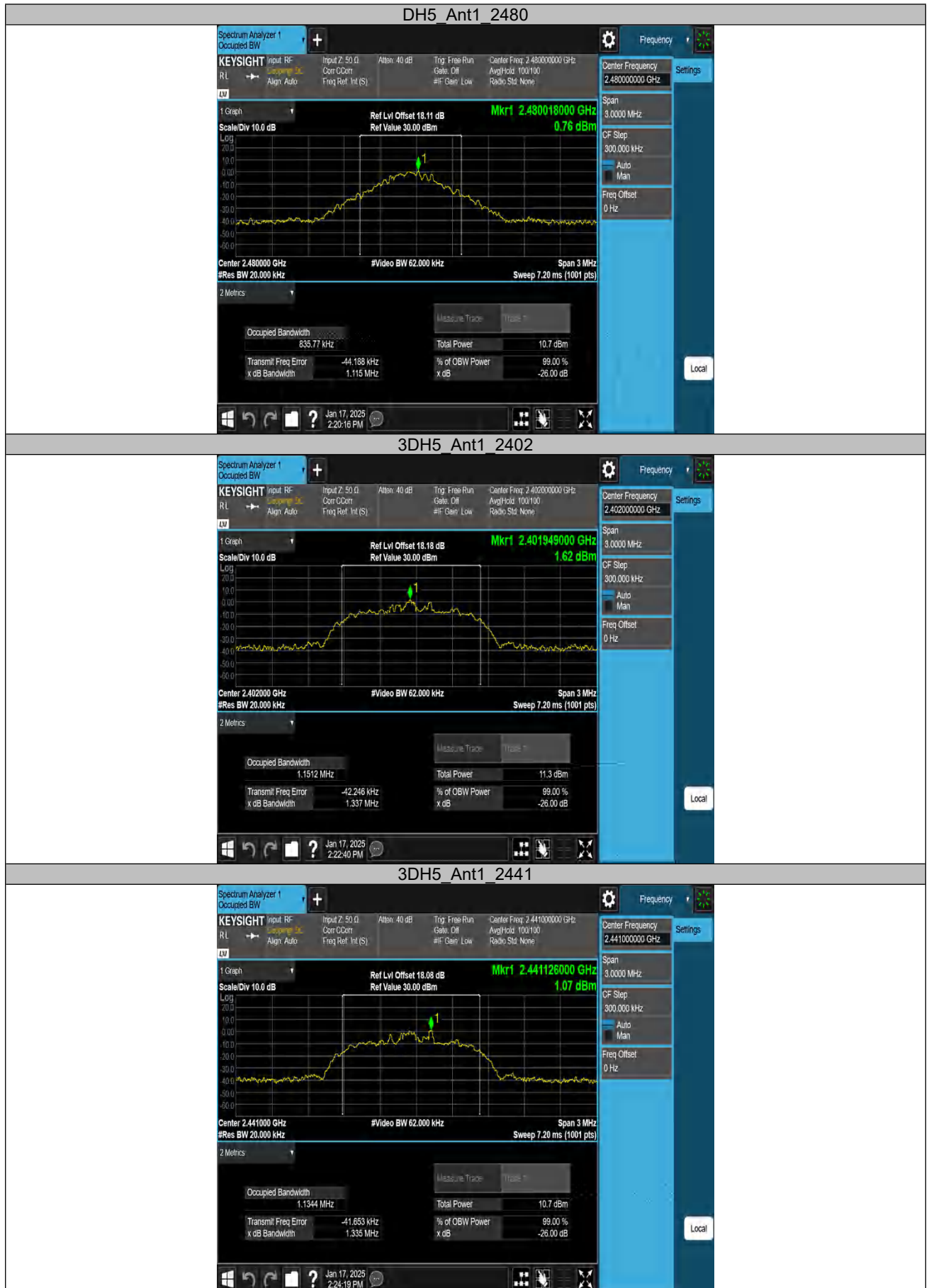
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.83164	2401.5381	2402.3698	---	---
		2441	0.84168	2440.5325	2441.3742	---	---
		2480	0.83577	2479.5379	2480.3737	---	---
3DH5	Ant1	2402	1.1512	2401.3822	2402.5334	---	---
		2441	1.1344	2440.3912	2441.5256	---	---
		2480	1.1561	2479.3782	2480.5343	---	---

DH5_Ant1_2402



DH5_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	0.891	2401.502	2402.393	---	---
		2441	0.921	2440.499	2441.420	---	---
		2480	0.891	2479.499	2480.390	---	---
3DH5	Ant1	2402	1.230	2401.331	2402.561	---	---
		2441	1.239	2440.325	2441.564	---	---
		2480	1.230	2479.328	2480.558	---	---



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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)
AC 120V	2401.995	-5	-2.08	10
AC 132V	2401.995	-5	-2.08	
AC 108V	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	2401.992	-8	-3.33	10
-20	2401.990	-10	-4.16	
-10	2401.990	-10	-4.16	
0	2401.992	-8	-3.33	
10	2401.994	-6	-2.50	
20	2401.995	-5	-2.08	
30	2401.995	-5	-2.08	
40	2401.993	-7	-2.91	
50	2401.994	-6	-2.50	
55	2401.994	-6	-2.50	

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

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
AC 120V	2440.996	-4	-1.64	10
AC 132V	2440.996	-4	-1.64	
AC 108V	2440.995	-5	-2.05	

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	2440.993	-7	-2.87	
-10	2440.994	-6	-2.46	
0	2440.995	-5	-2.05	
10	2440.996	-4	-1.64	
20	2440.996	-4	-1.64	
30	2440.996	-4	-1.64	
40	2440.997	-3	-1.23	
50	2440.996	-4	-1.64	
55	2440.996	-4	-1.64	

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

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
AC 120V	2479.994	-6	-2.42	10
AC 132V	2479.994	-6	-2.42	
AC 108V	2479.995	-5	-2.02	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2479.982	-18	-7.26	10
-20	2479.991	-9	-3.63	
-10	2479.992	-8	-3.23	
0	2479.993	-7	-2.82	
10	2479.994	-6	-2.42	
20	2479.994	-6	-2.42	
30	2479.994	-6	-2.42	
40	2479.995	-5	-2.02	
50	2479.993	-7	-2.82	
55	2479.994	-6	-2.42	

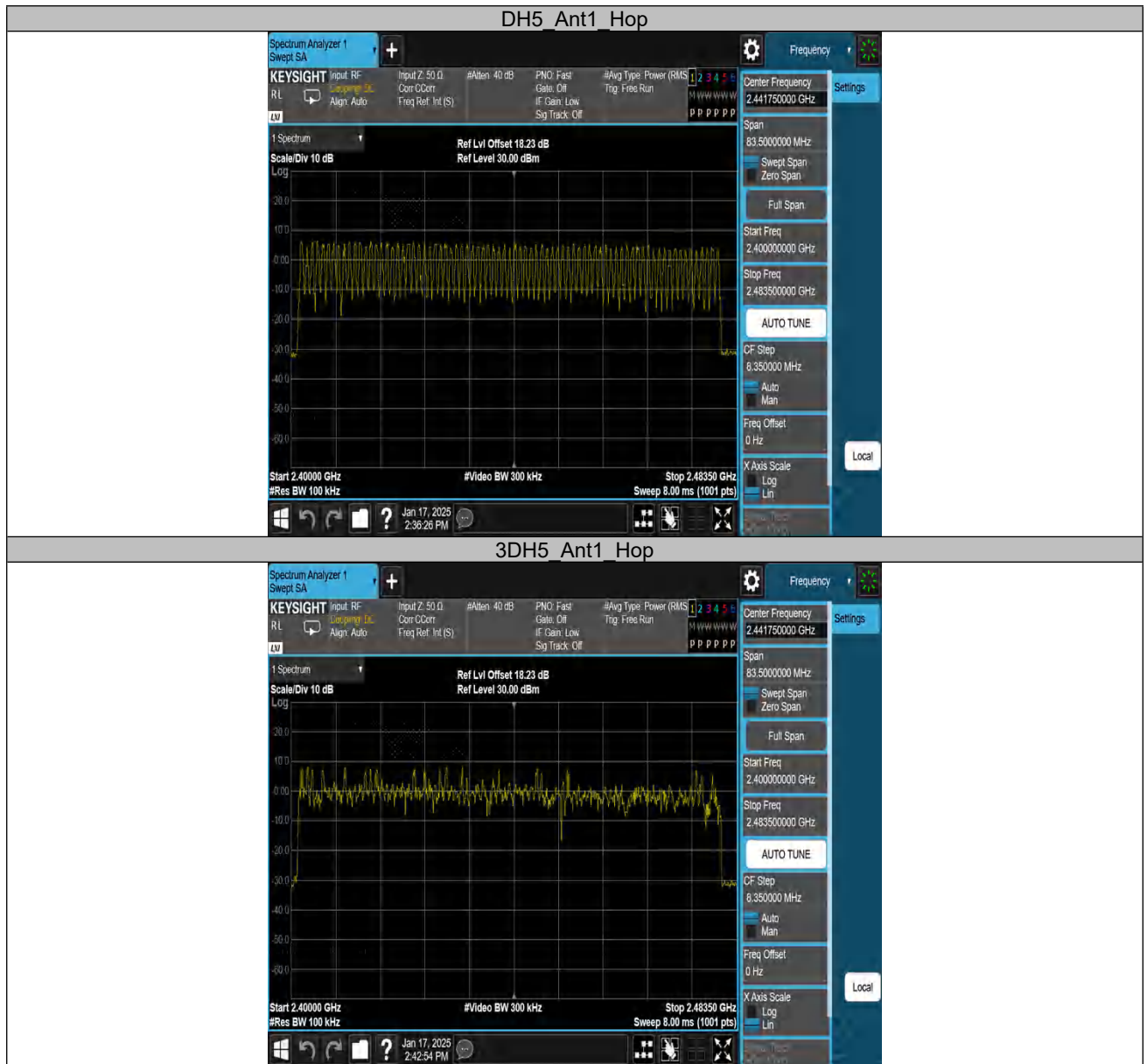
Appendix B.4: Test Results of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.958	≥ 0.614	PASS
3DH5	Ant1	Hop	1.252	≥ 0.826	PASS



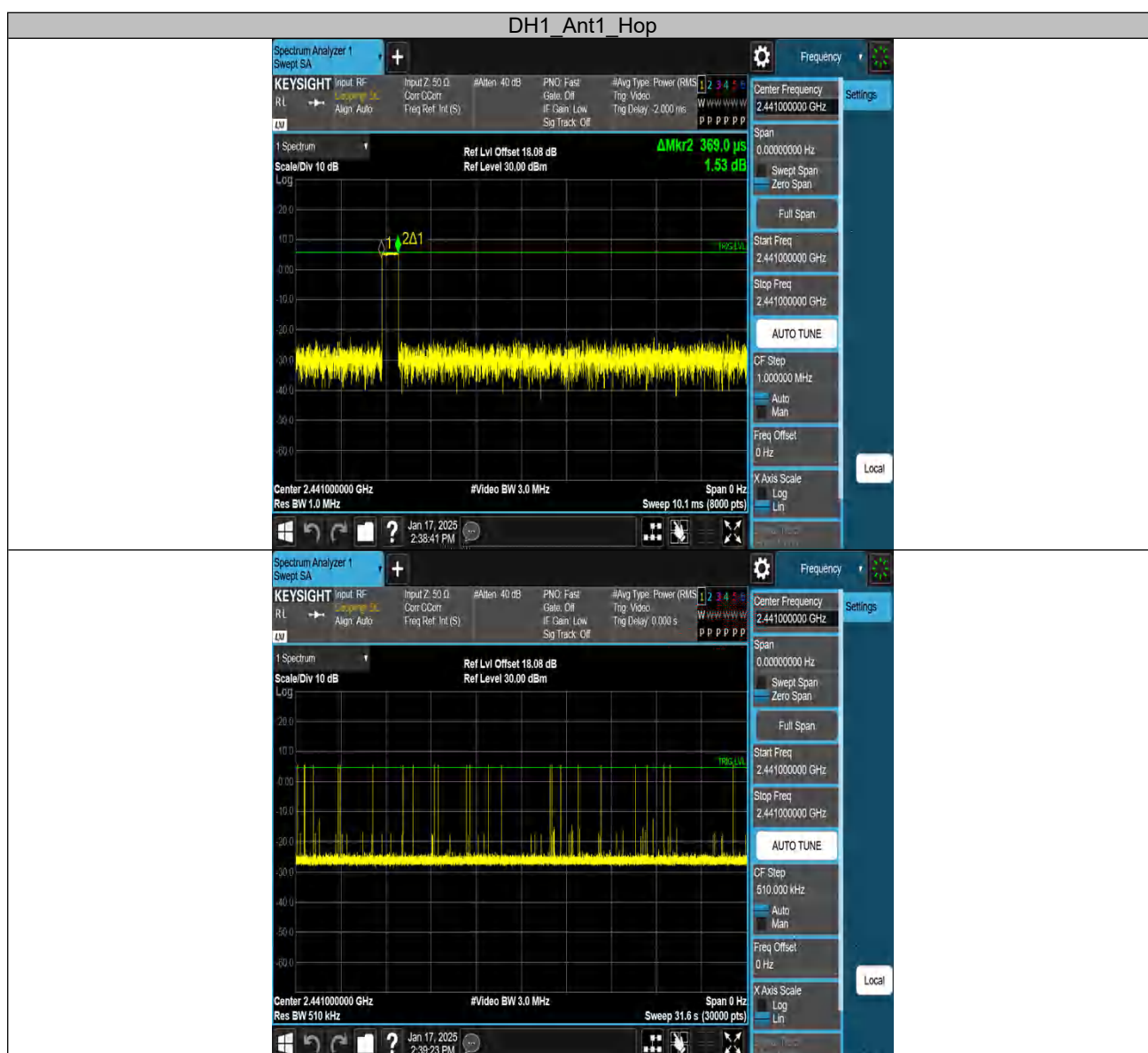
Appendix B.5: Test Results of Number of Hopping Frequency

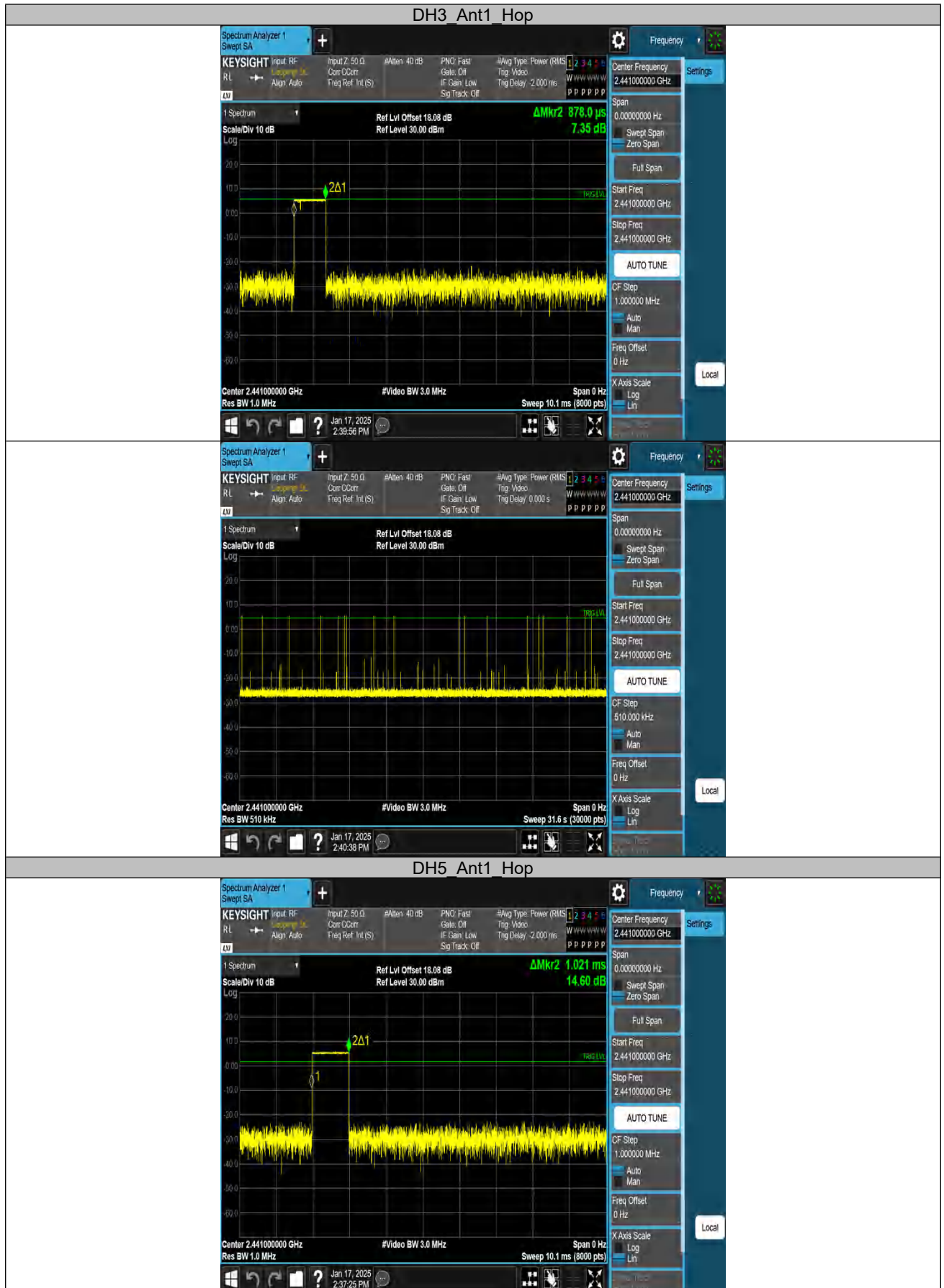
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

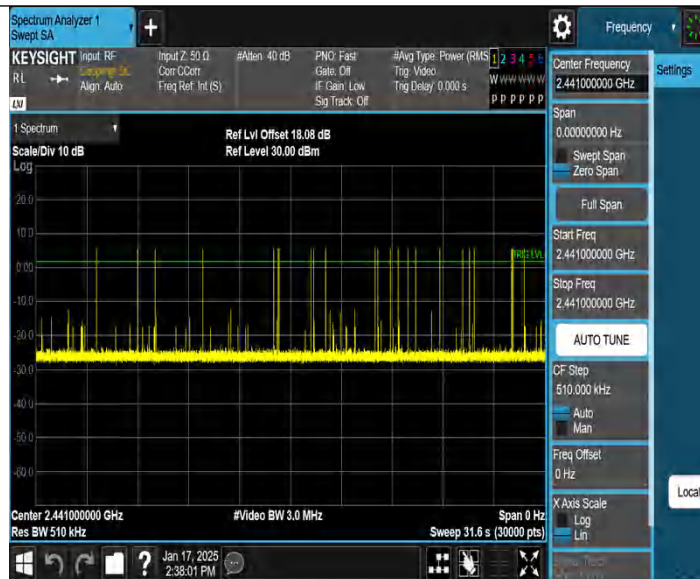


Appendix B.6: Test Results of Time of Occupancy

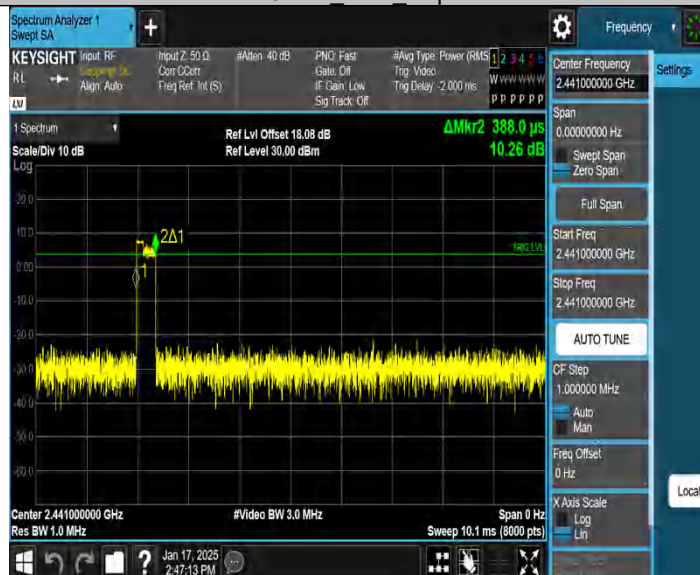
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.369	24	0.009	≤0.4	PASS
DH3	Ant1	Hop	0.878	18	0.016	≤0.4	PASS
DH5	Ant1	Hop	1.021	23	0.023	≤0.4	PASS
3DH1	Ant1	Hop	0.388	17	0.007	≤0.4	PASS
3DH3	Ant1	Hop	1.245	24	0.03	≤0.4	PASS
3DH5	Ant1	Hop	1.044	22	0.023	≤0.4	PASS

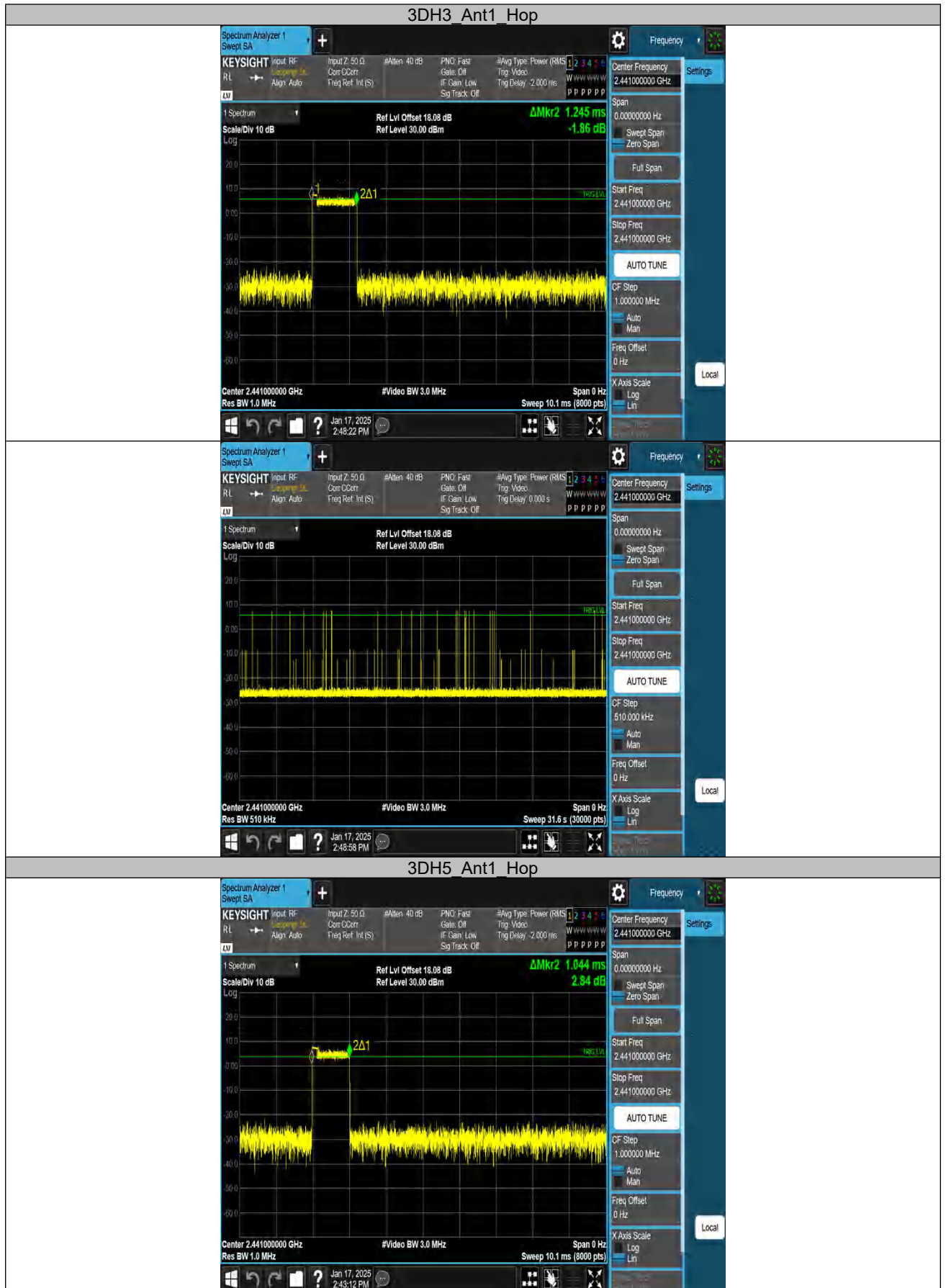






3DH1 Ant1 Hop



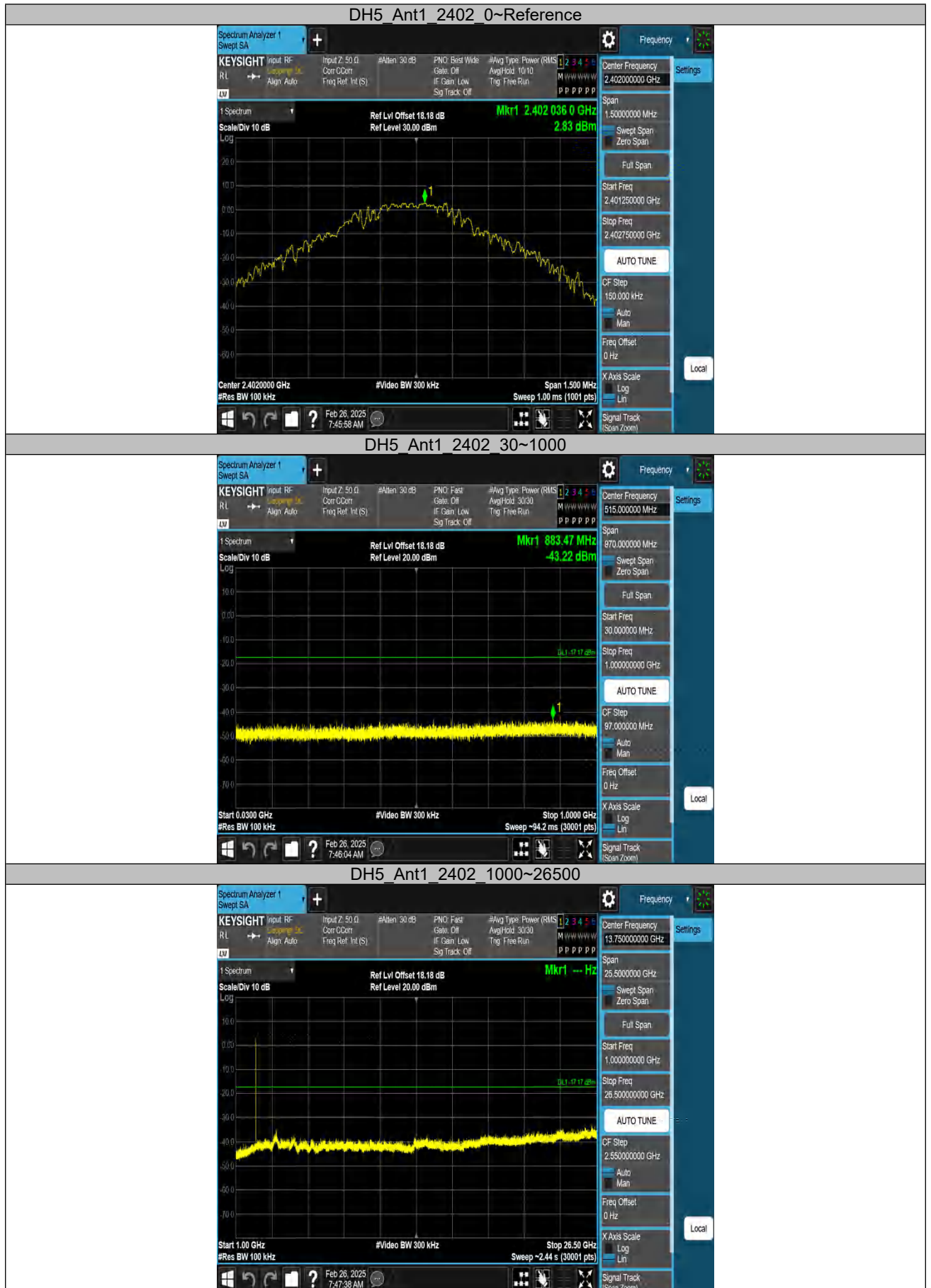


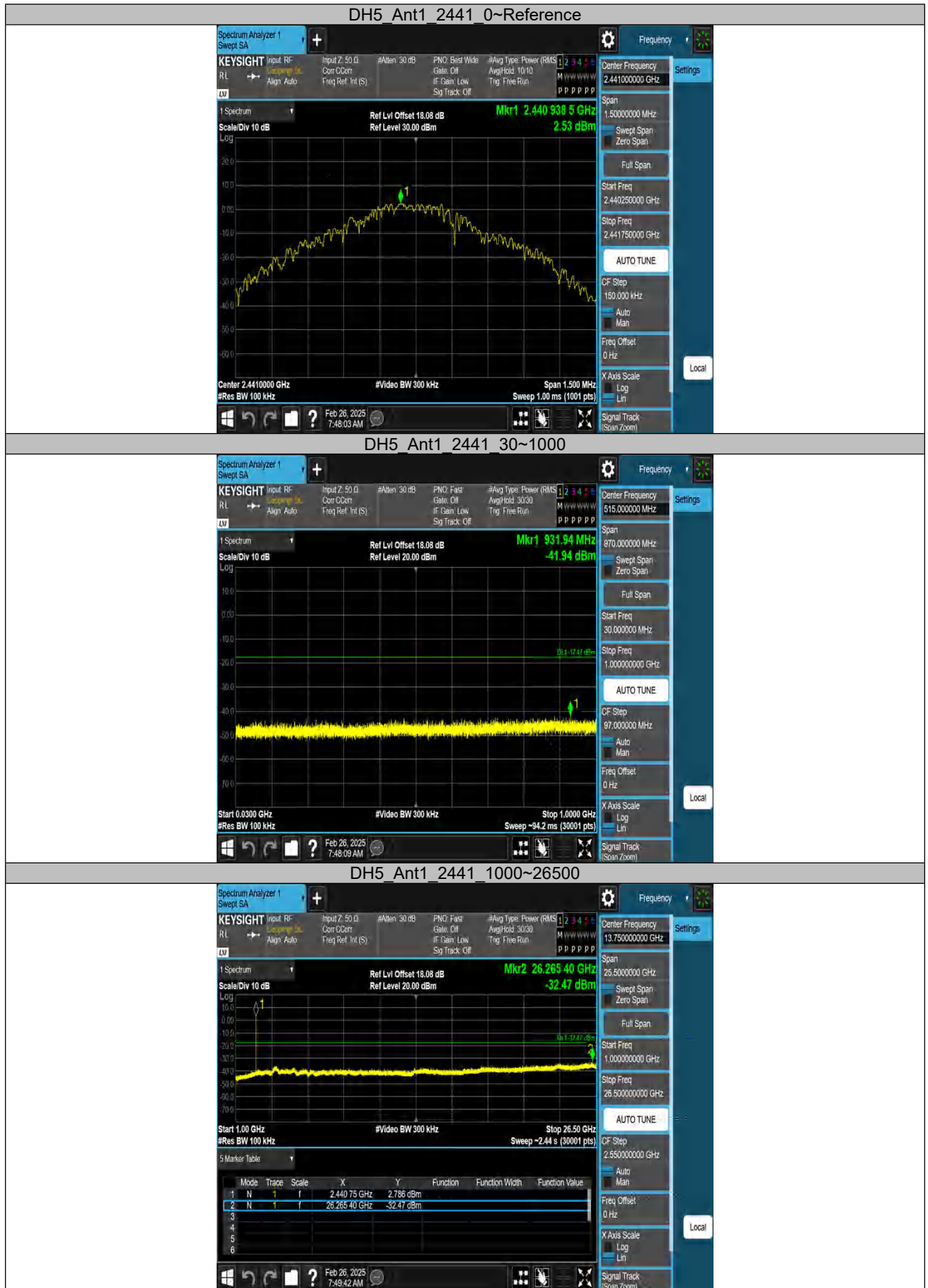


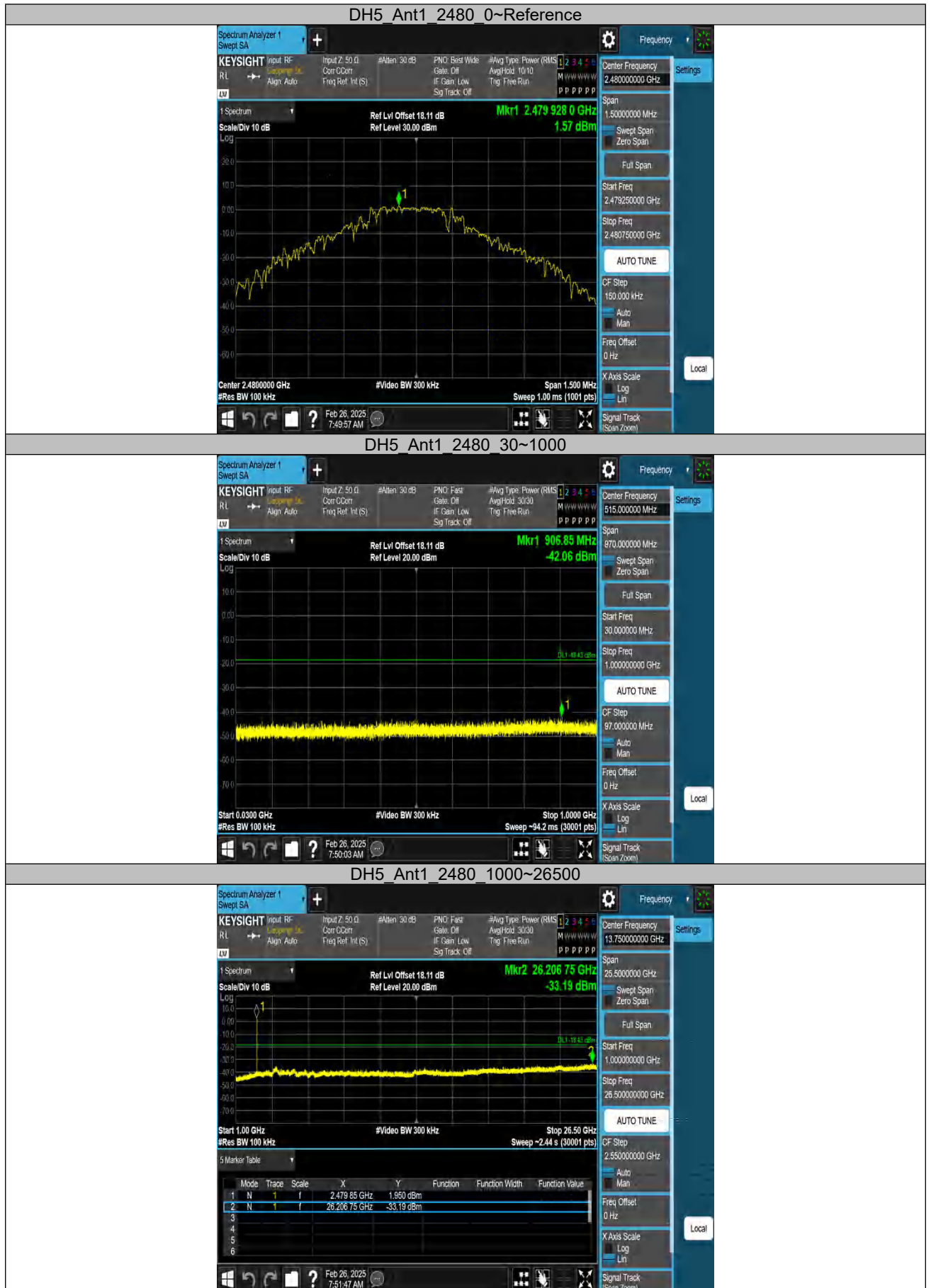
Appendix B.7: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

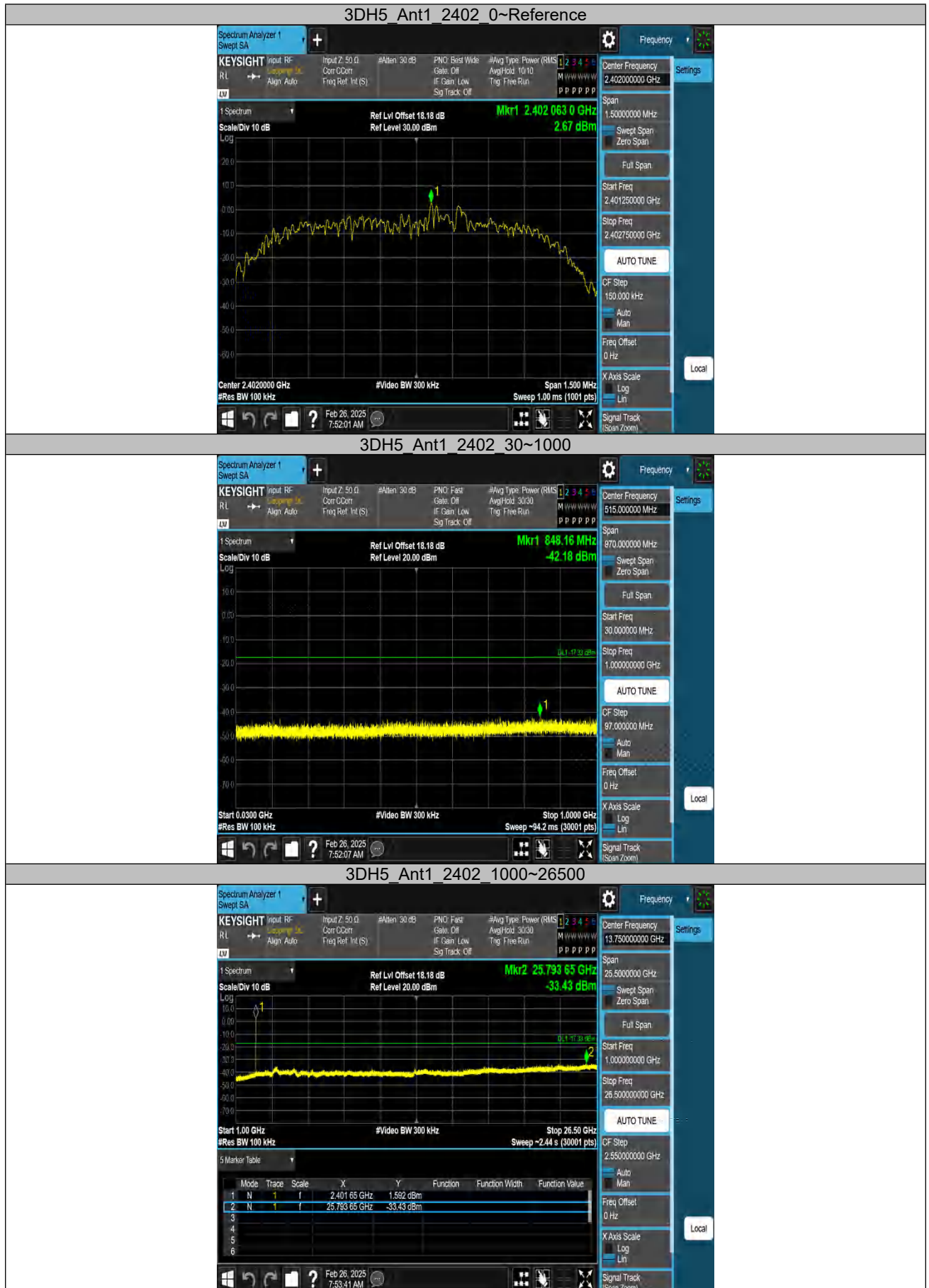
Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.83	2.83	---	PASS
			30~1000	2.83	-43.22	≤-17.17	PASS
			1000~26500	2.83	-33.22	≤-17.17	PASS
		2441	Reference	2.53	2.53	---	PASS
			30~1000	2.53	-41.94	≤-17.47	PASS
			1000~26500	2.53	-32.47	≤-17.47	PASS
		2480	Reference	1.57	1.57	---	PASS
			30~1000	1.57	-42.06	≤-18.43	PASS
			1000~26500	1.57	-33.2	≤-18.43	PASS
3DH5	Ant1	2402	Reference	2.67	2.67	---	PASS
			30~1000	2.67	-42.18	≤-17.33	PASS
			1000~26500	2.67	-33.43	≤-17.33	PASS
		2441	Reference	1.38	1.38	---	PASS
			30~1000	1.38	-41.87	≤-18.62	PASS
			1000~26500	1.38	-32.39	≤-18.62	PASS
		2480	Reference	-3.85	-3.85	---	PASS
			30~1000	-3.85	-42.13	≤-23.85	PASS
			1000~26500	-3.85	-33.29	≤-23.85	PASS













Band edge measurements.

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.90	-41.42	≤ -16.1	PASS
		High	2480	1.73	-43.90	≤ -18.27	PASS
3DH5	Ant1	Low	2402	3.95	-43.02	$-16.05 \leq$	PASS
		High	2480	1.32	-42.41	≤ -18.69	PASS
DH5	Ant1	Hopping	2402	3.33	-42.71	≤ -16.67	PASS
		Hopping	2480	1.66	-42.37	≤ -18.37	PASS
3DH5	Ant1	Hopping	2402	-2.26	-43.39	≤ -22.26	PASS
		Hopping	2480	-1.08	-42.69	≤ -21.08	PASS

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



3DH5 Ant1 Low 2402



3DH5 Ant1 High 2480



DH5 Ant1 Hopping 2402





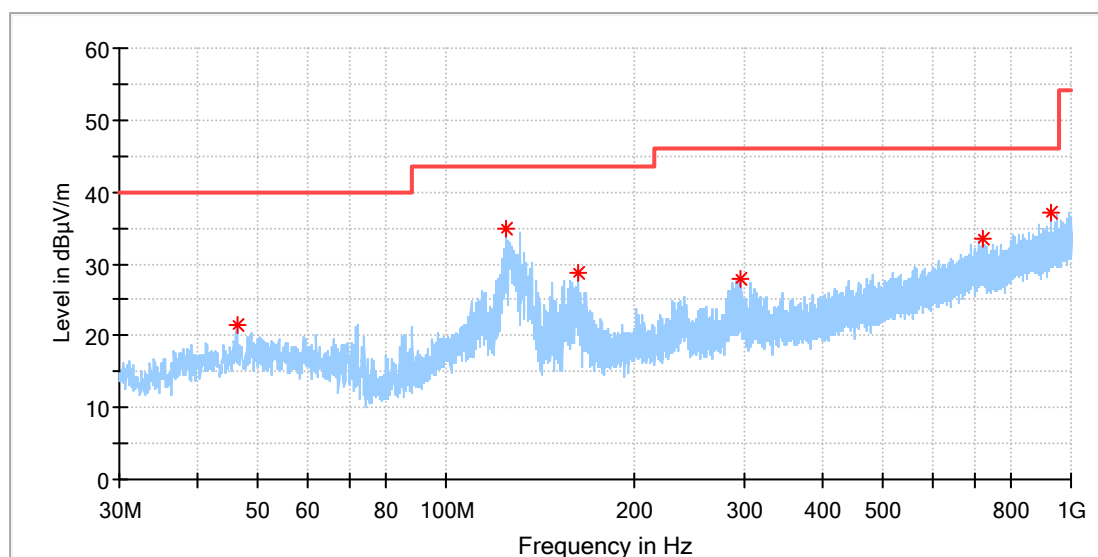
Appendix B.8: Test Results of Radiated Spurious Emissions

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:	POWERED LOUDSPEAKER
Model:	EVIVA12P
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168522187/A003898369-002
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

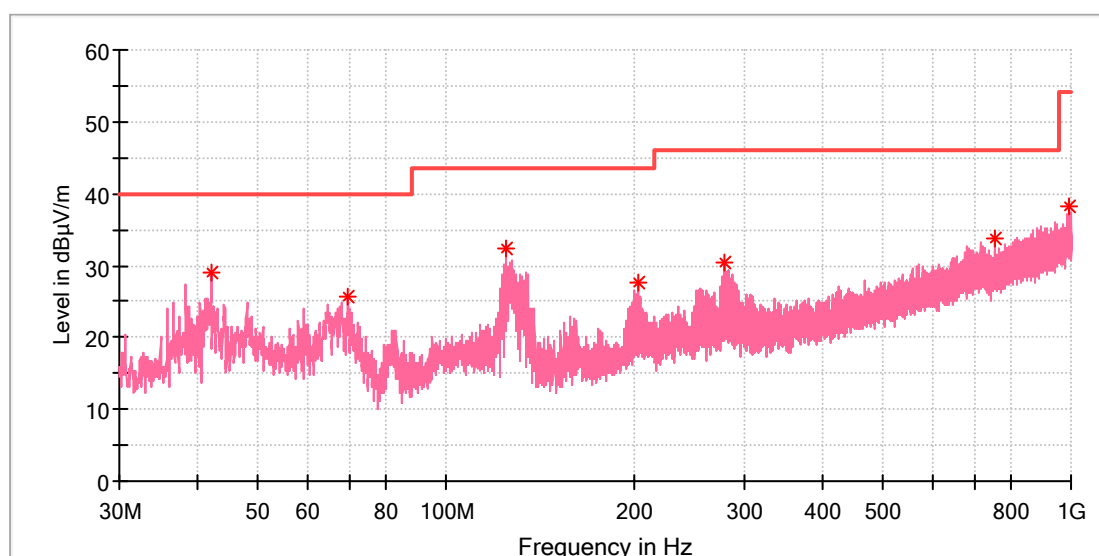


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.228846	21.35	40.00	18.65	100.0	H	289.0	-18.7
124.873462	34.99	43.50	8.51	100.0	H	200.0	-21.4
162.740769	28.72	43.50	14.78	100.0	H	171.0	-21.7
294.810000	28.01	46.00	17.99	100.0	H	298.0	-16.4
720.714615	33.46	46.00	12.54	100.0	H	209.0	-7.5
930.756923	37.01	46.00	8.99	100.0	H	75.0	-4.5

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA12P
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168522187/A003898369-002
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

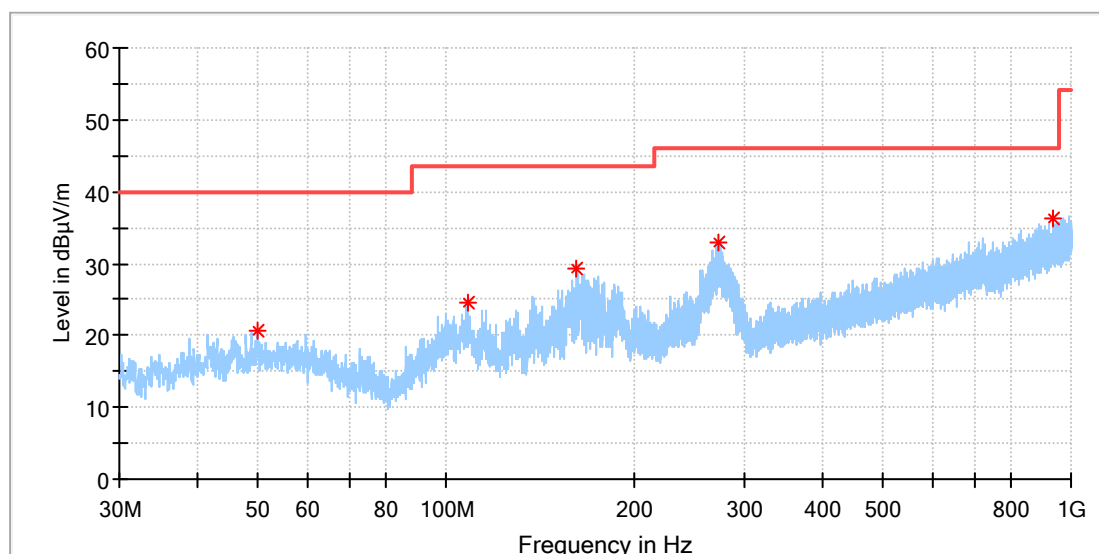


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
42.087692	29.09	40.00	10.91	100.0	V	174.0	-19.7
69.620769	25.79	40.00	14.21	100.0	V	6.0	-21.8
124.910769	32.42	43.50	11.08	100.0	V	300.0	-21.4
202.958462	27.71	43.50	15.79	100.0	V	182.0	-19.0
278.320000	30.34	46.00	15.66	100.0	V	64.0	-16.8
758.022308	33.79	46.00	12.21	100.0	V	114.0	-6.9
995.411154	38.27	54.00	15.73	100.0	V	351.0	-3.5

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA15P
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168522187/A003902133-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

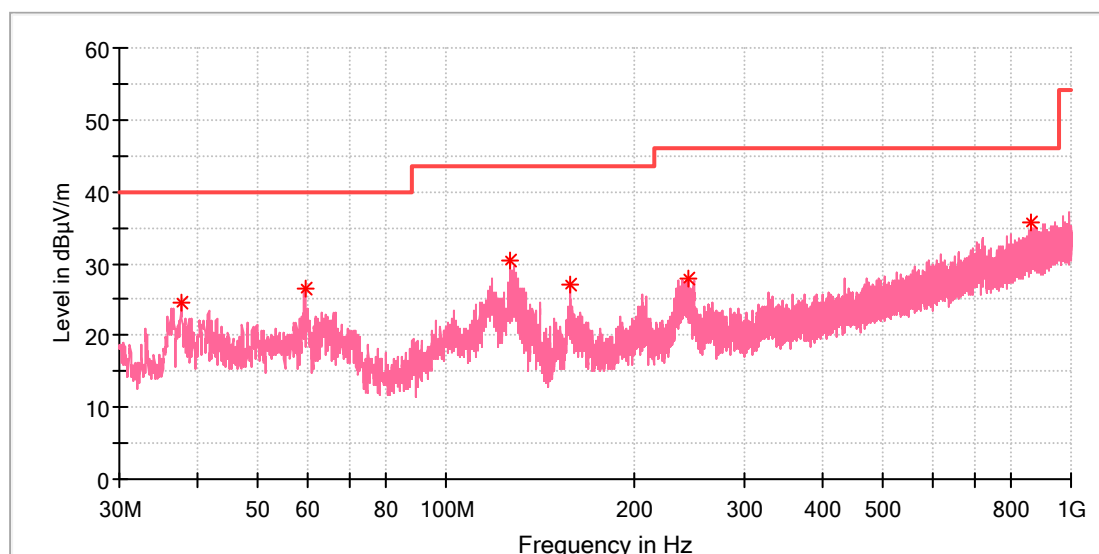


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.996923	20.67	40.00	19.33	100.0	H	342.0	-18.4
108.234231	24.59	43.50	18.91	100.0	H	139.0	-19.1
162.031923	29.28	43.50	14.22	100.0	H	65.0	-21.7
272.313462	32.89	46.00	13.11	100.0	H	308.0	-16.9
936.017308	36.23	46.00	9.77	100.0	H	18.0	-4.4

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA15P
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168522187/A003902133-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

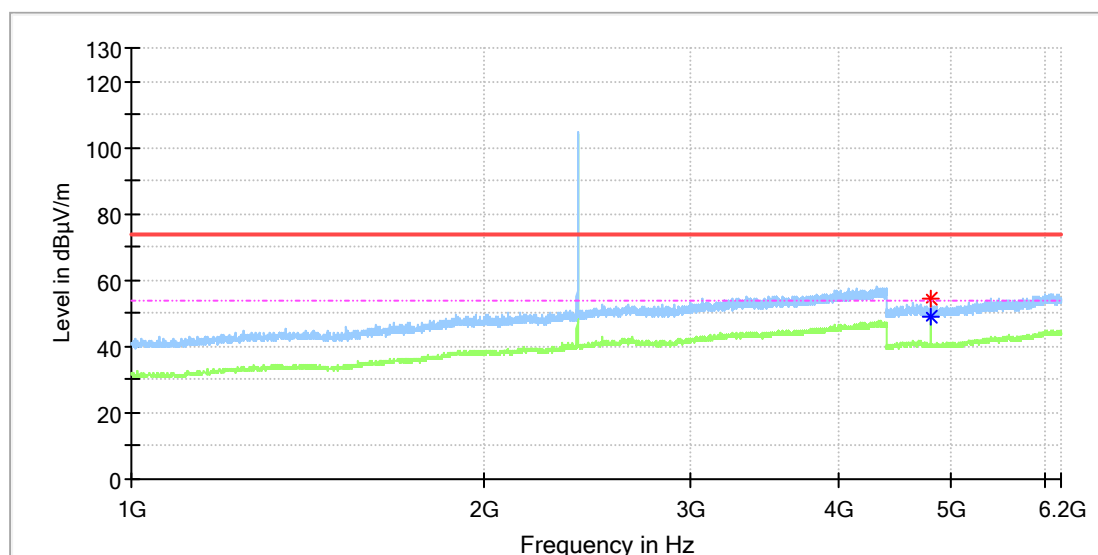
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.648077	24.56	40.00	15.44	100.0	V	172.0	-20.9
59.398462	26.52	40.00	13.48	100.0	V	331.0	-19.0
126.440385	30.46	43.50	13.04	100.0	V	347.0	-21.6
157.704231	27.05	43.50	16.45	100.0	V	180.0	-21.9
244.220769	27.92	46.00	18.08	100.0	V	0.0	-17.6
861.886923	35.62	46.00	10.38	100.0	V	227.0	-5.2

1GHz - 18GHz

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

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA12P
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168522187/A003898369-002
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

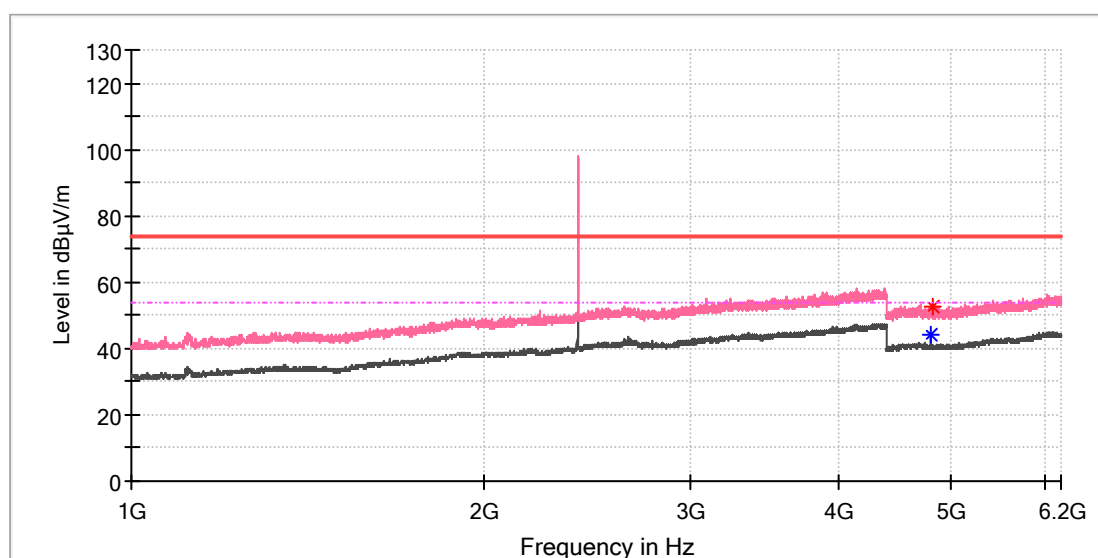


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	54.54	---	74.00	19.46	150.0	H	158.0	13.3
4804.000000	---	48.76	54.00	5.24	150.0	H	158.0	13.3

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA12P
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168522187/A003898369-002
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

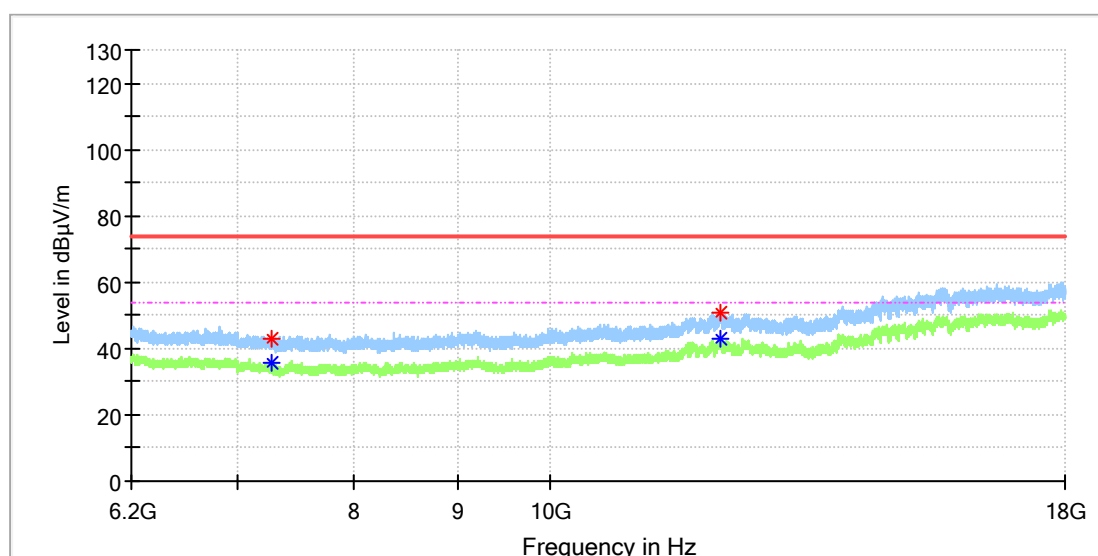


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	---	44.38	54.00	9.62	150.0	V	110.0	13.3
4812.500000	52.46	---	74.00	21.54	150.0	V	239.0	13.3

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA12P
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168522187/A003898369-002
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

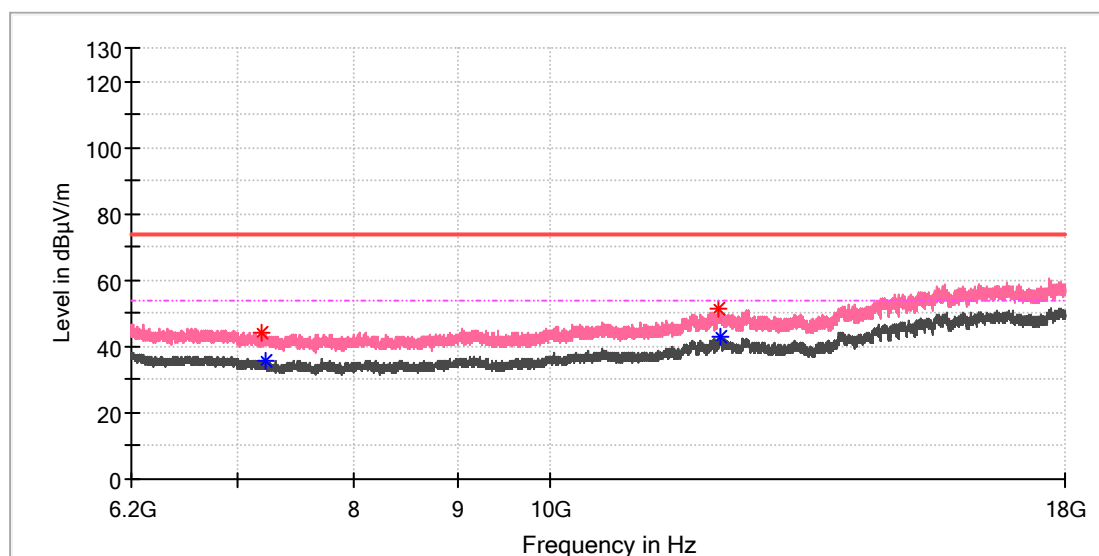


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7271.341667	---	35.59	54.00	18.41	150.0	H	259.0	8.5
7271.833333	43.09	---	74.00	30.91	150.0	H	259.0	8.5
12137.366667	50.64	---	74.00	23.36	150.0	H	259.0	16.4
12159.000000	---	42.77	54.00	11.23	150.0	H	271.0	16.3

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA12P
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168522187/A003898369-002
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

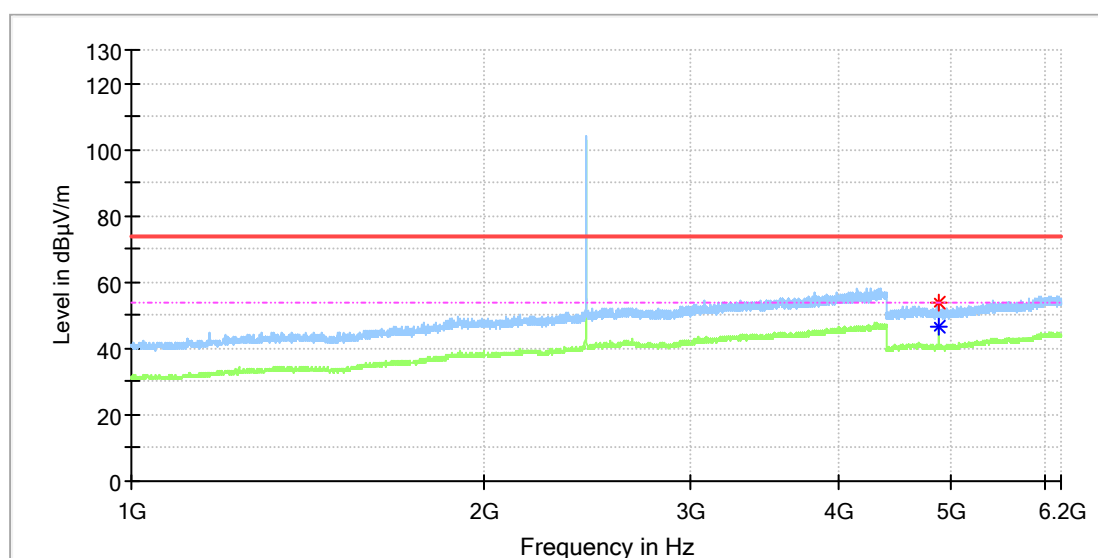


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7200.050000	44.32	---	74.00	29.68	150.0	V	42.0	8.8
7219.716667	---	35.38	54.00	18.62	150.0	V	97.0	8.7
12126.550000	51.49	---	74.00	22.51	150.0	V	354.0	16.1
12145.233333	---	43.14	54.00	10.86	150.0	V	214.0	16.6

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA12P
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168522187/A003898369-002
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

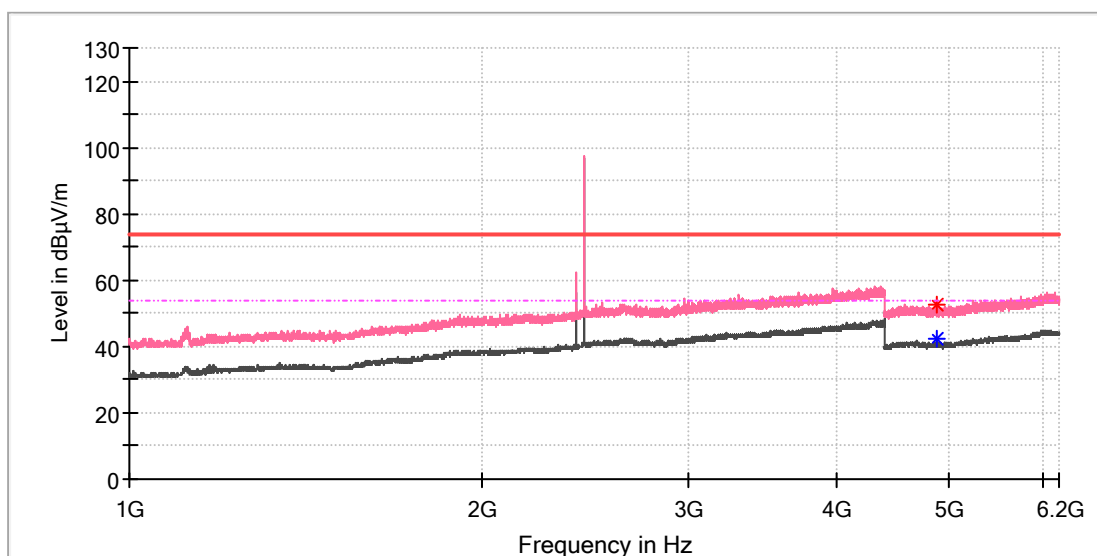


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.500000	---	46.34	54.00	7.66	150.0	H	13.0	13.3
4882.000000	53.84	---	74.00	20.16	150.0	H	157.0	13.3

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA12P
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168522187/A003898369-002
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

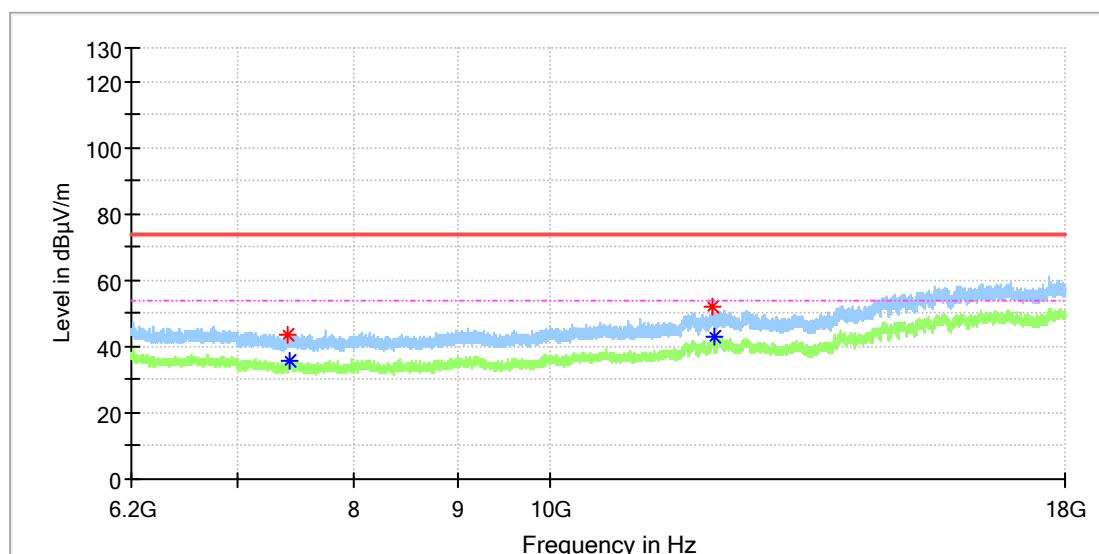


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	52.35	---	74.00	21.65	150.0	V	78.0	13.3
4882.000000	---	42.49	54.00	11.51	150.0	V	78.0	13.3

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA12P
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168522187/A003898369-002
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

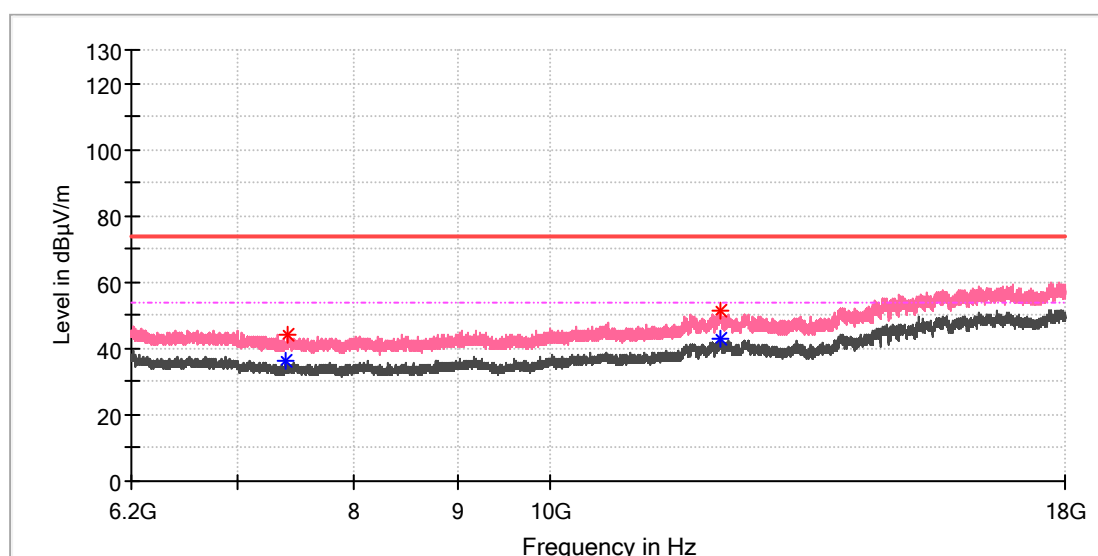


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7409.500000	43.66	---	74.00	30.34	150.0	H	281.0	8.3
7433.100000	---	35.41	54.00	18.59	150.0	H	189.0	8.4
12045.425000	51.70	---	74.00	22.30	150.0	H	31.0	16.3
12049.850000	---	42.69	54.00	11.31	150.0	H	0.0	16.4

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA12P
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168522187/A003898369-002
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

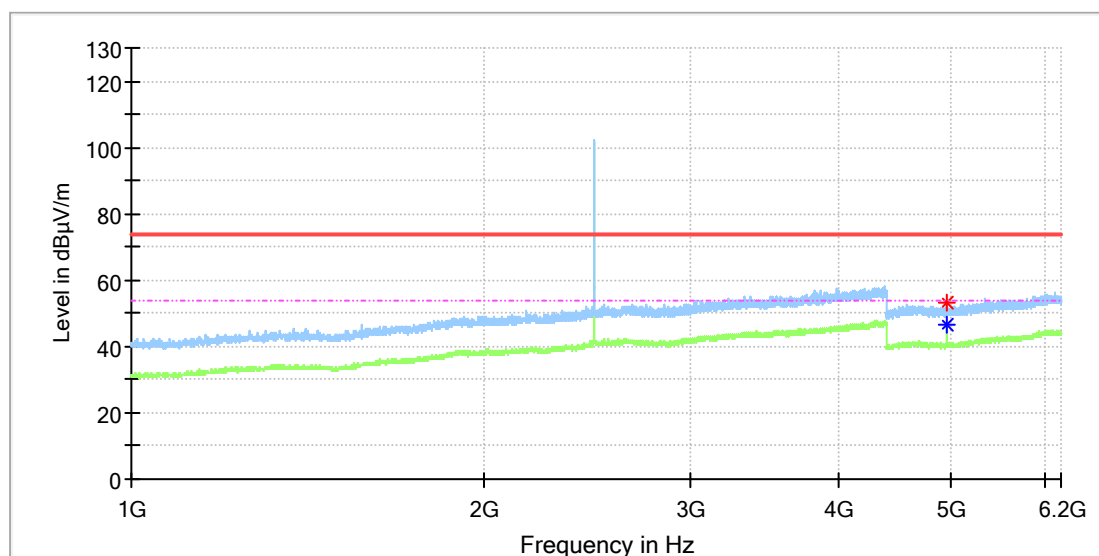


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7397.700000	---	36.14	54.00	17.86	150.0	V	213.0	8.3
7414.416667	43.90	---	74.00	30.10	150.0	V	153.0	8.3
12140.316667	51.23	---	74.00	22.77	150.0	V	129.0	16.5
12142.775000	---	42.69	54.00	11.31	150.0	V	201.0	16.5

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA12P
Test Mode: BR_DH5_High channel
Order No/Sample No: 168522187/A003898369-002
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

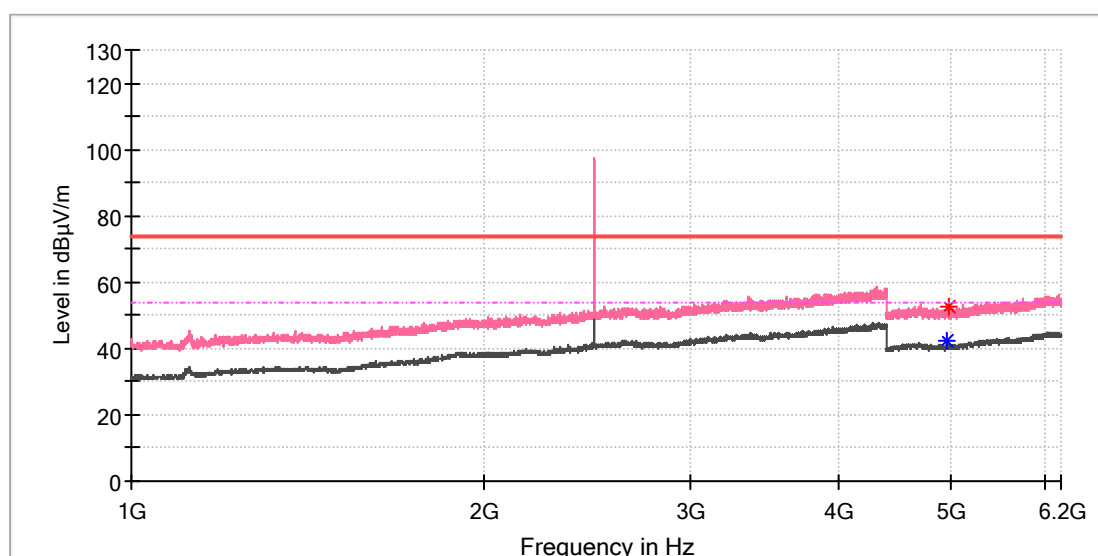


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	53.12	---	74.00	20.88	150.0	H	160.0	13.3
4960.000000	---	46.86	54.00	7.14	150.0	H	160.0	13.3

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA12P
Test Mode: BR_DH5_High channel
Order No/Sample No: 168522187/A003898369-002
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

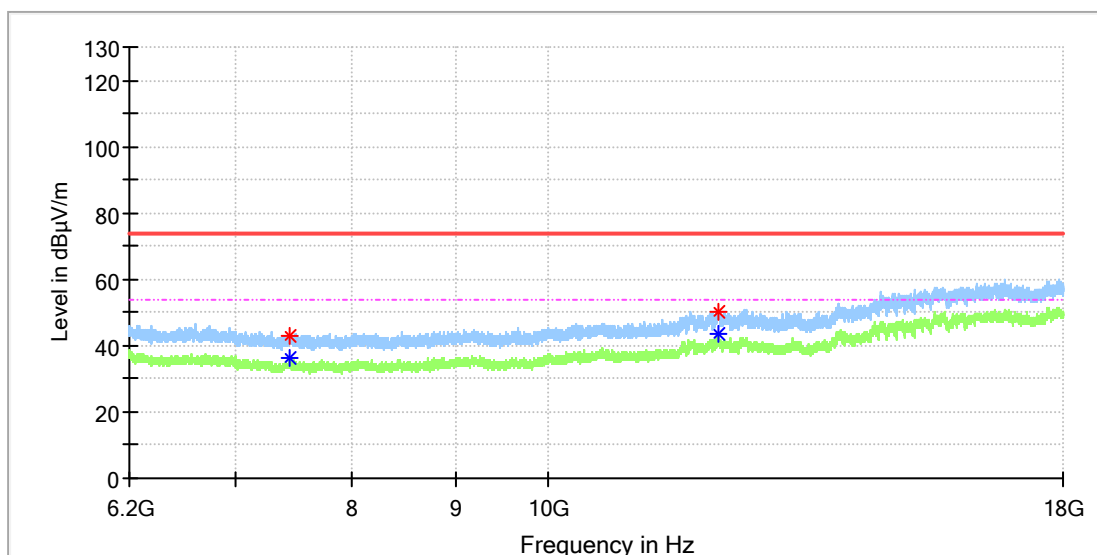


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	---	42.24	54.00	11.76	150.0	V	334.0	13.3
4967.500000	52.42	---	74.00	21.58	150.0	V	309.0	13.3

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA12P
Test Mode: BR_DH5_High channel
Order No/Sample No: 168522187/A003898369-002
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

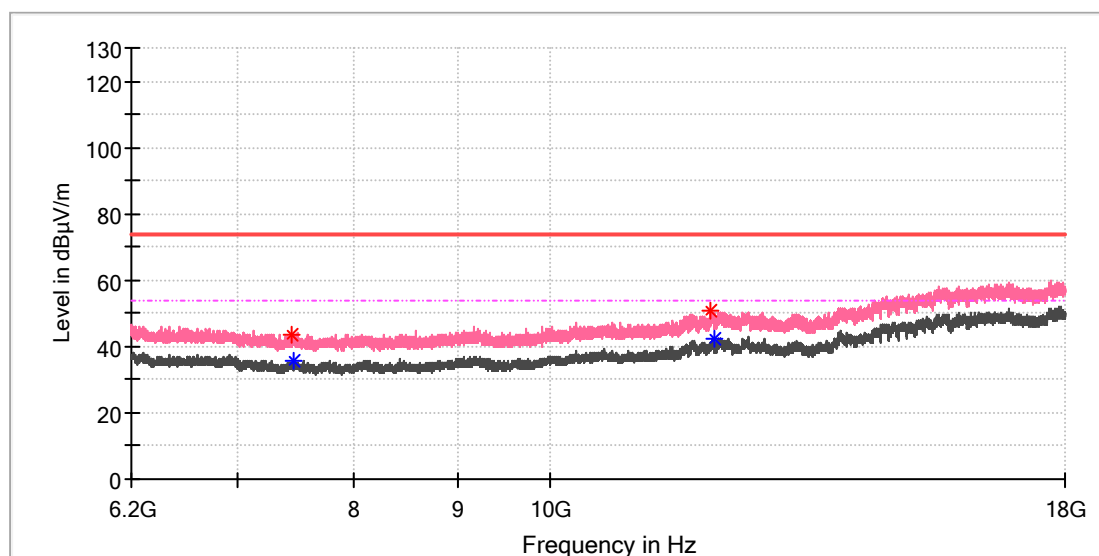


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7451.783333	43.09	---	74.00	30.91	150.0	H	308.0	8.5
7451.783333	---	36.16	54.00	17.84	150.0	H	308.0	8.5
12151.133333	50.45	---	74.00	23.55	150.0	H	193.0	16.7
12151.133333	---	43.50	54.00	10.50	150.0	H	193.0	16.7

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA12P
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168522187/A003898369-002
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

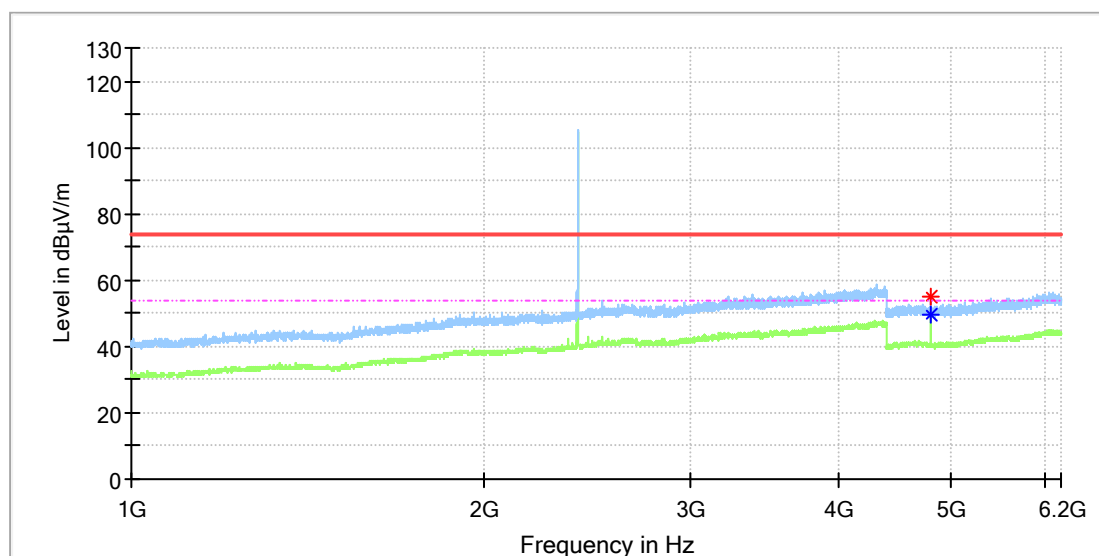


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	43.65	---	74.00	30.35	150.0	V	127.0	8.4
7462.600000	---	35.66	54.00	18.34	150.0	V	173.0	8.6
12005.108333	50.52	---	74.00	23.48	150.0	V	0.0	15.4
12052.308333	---	42.54	54.00	11.46	150.0	V	41.0	16.1

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

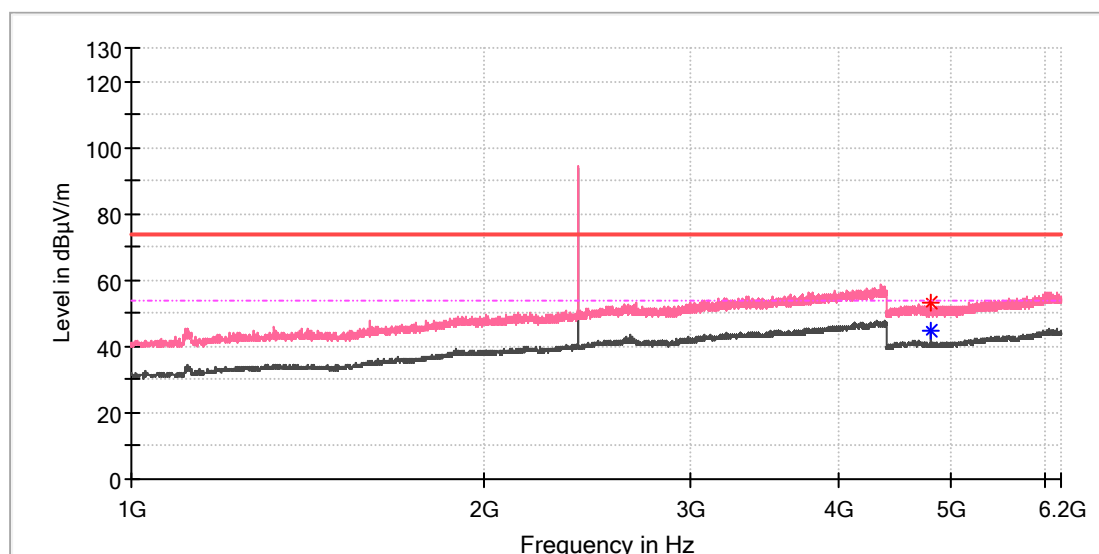


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	55.20	---	74.00	18.80	150.0	H	159.0	13.3
4804.000000	---	49.71	54.00	4.29	150.0	H	159.0	13.3

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

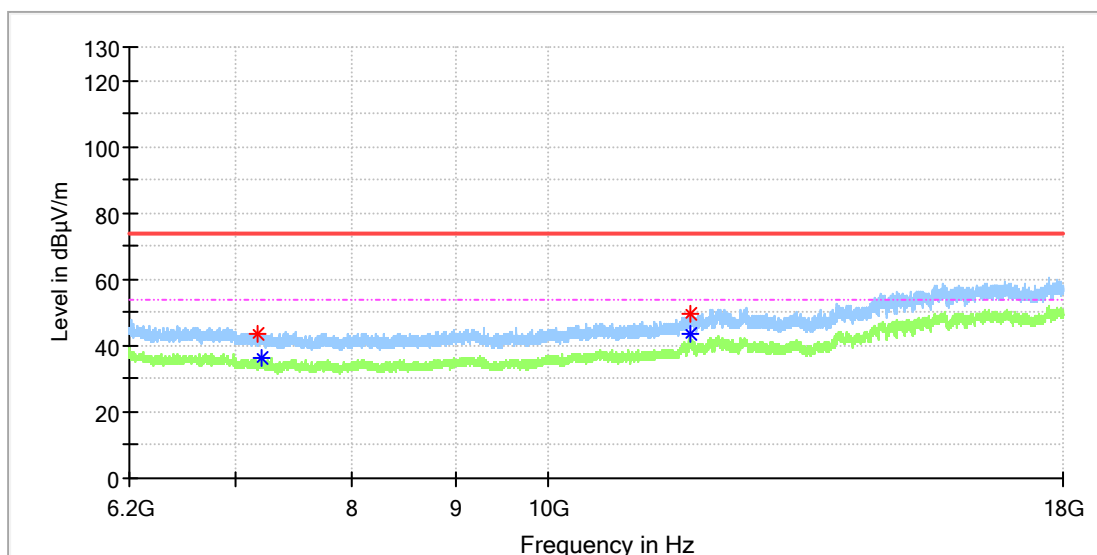


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	44.96	54.00	9.04	150.0	V	96.0	13.3
4804.500000	53.43	---	74.00	20.57	150.0	V	334.0	13.3

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

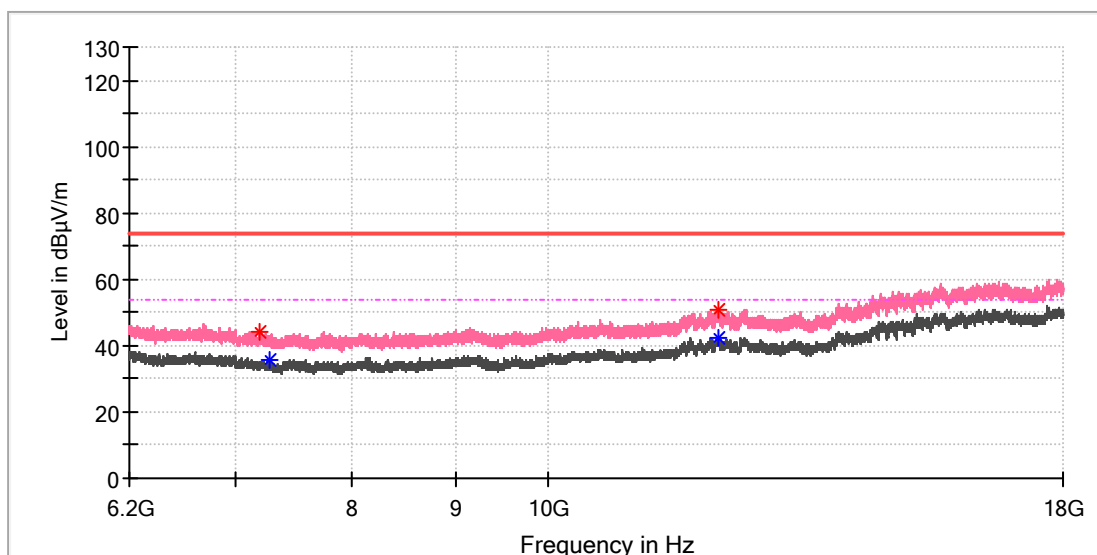


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7171.041667	43.47	---	74.00	30.53	150.0	H	129.0	8.7
7209.391667	---	36.24	54.00	17.76	150.0	H	16.0	8.8
11749.933333	49.66	---	74.00	24.34	150.0	H	4.0	15.5
11749.933333	---	43.62	54.00	10.38	150.0	H	4.0	15.5

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

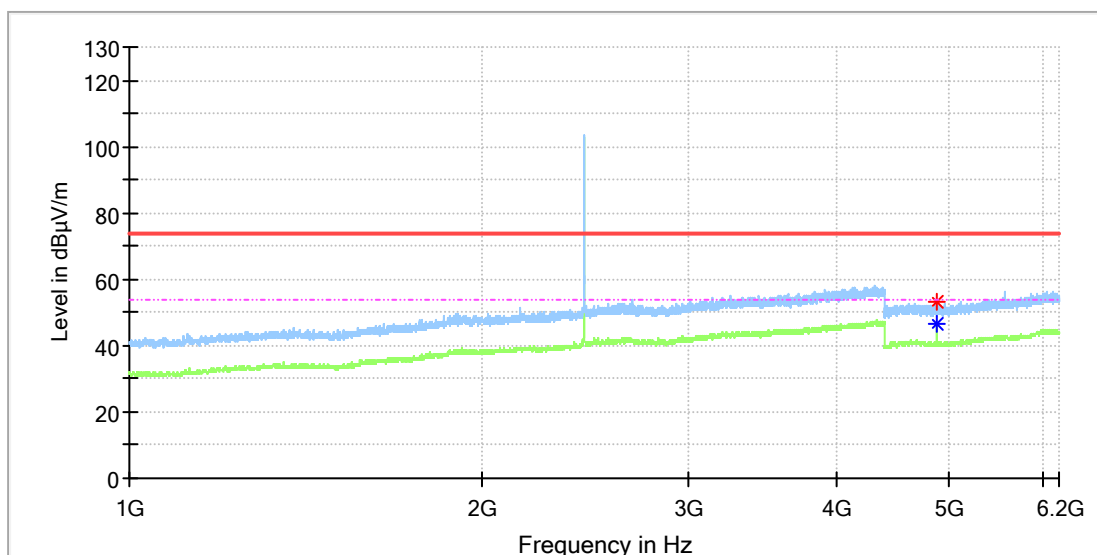


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7201.033333	44.26	---	74.00	29.74	150.0	V	0.0	8.8
7269.375000	---	35.48	54.00	18.52	150.0	V	303.0	8.5
12133.925000	50.64	---	74.00	23.36	150.0	V	115.0	16.3
12146.708333	---	42.61	54.00	11.39	150.0	V	91.0	16.6

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

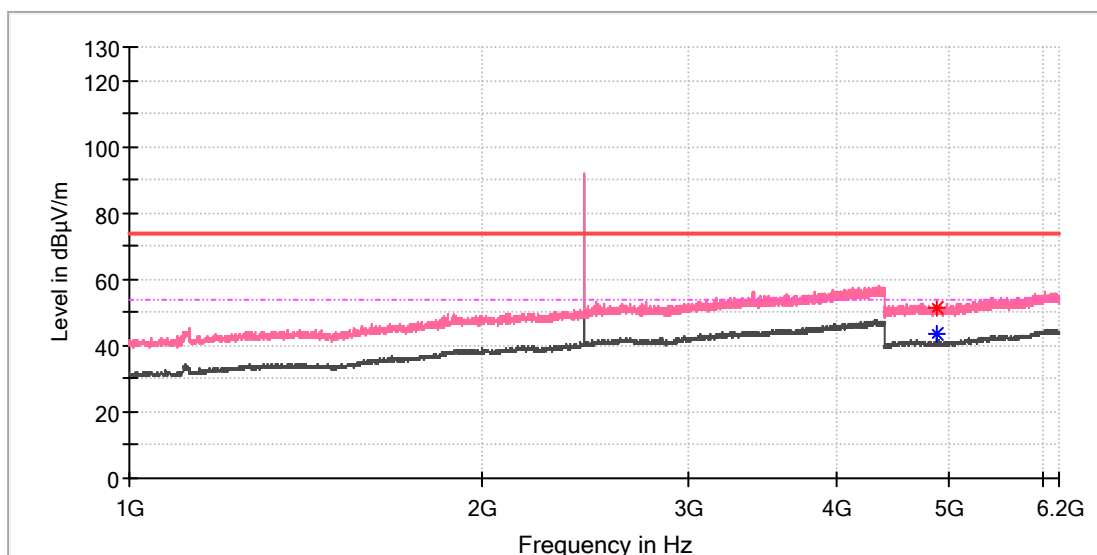


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.500000	53.20	---	74.00	20.80	150.0	H	163.0	13.3
4881.500000	---	46.82	54.00	7.18	150.0	H	163.0	13.3

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

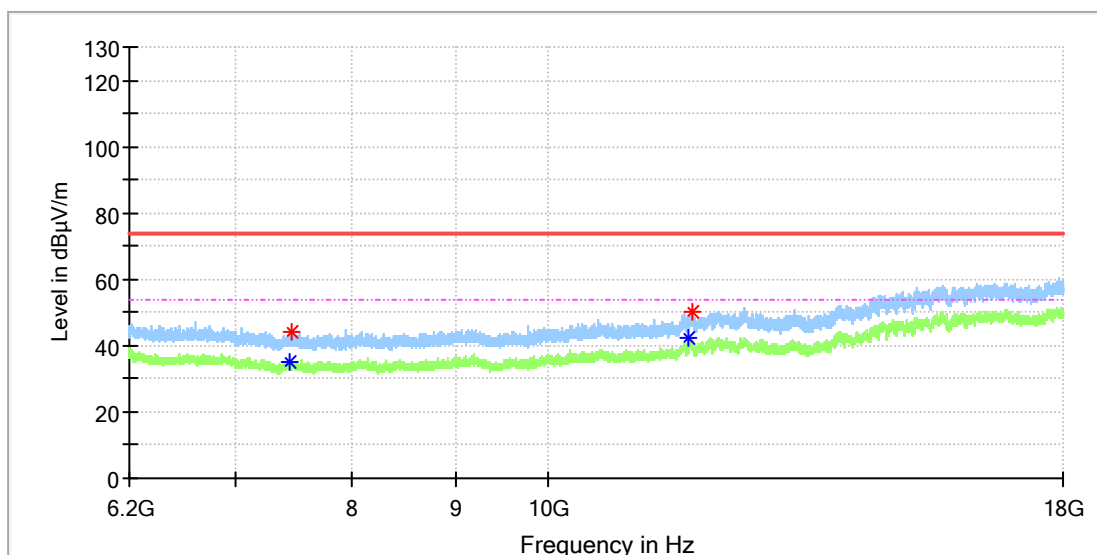


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	---	43.51	54.00	10.49	150.0	V	68.0	13.3
4882.500000	51.51	---	74.00	22.49	150.0	V	82.0	13.3

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA15P
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168522187/A003902133-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

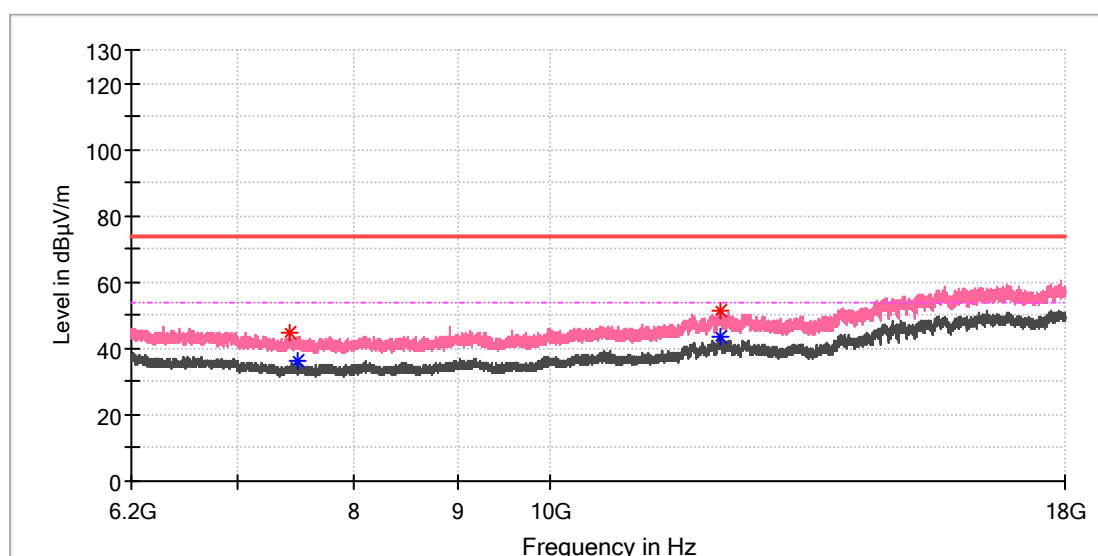


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.000000	---	35.17	54.00	18.83	150.0	H	240.0	8.4
7455.225000	44.08	---	74.00	29.92	150.0	H	284.0	8.5
11747.475000	---	42.12	54.00	11.88	150.0	H	0.0	15.4
11788.283333	50.04	---	74.00	23.96	150.0	H	295.0	15.0

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

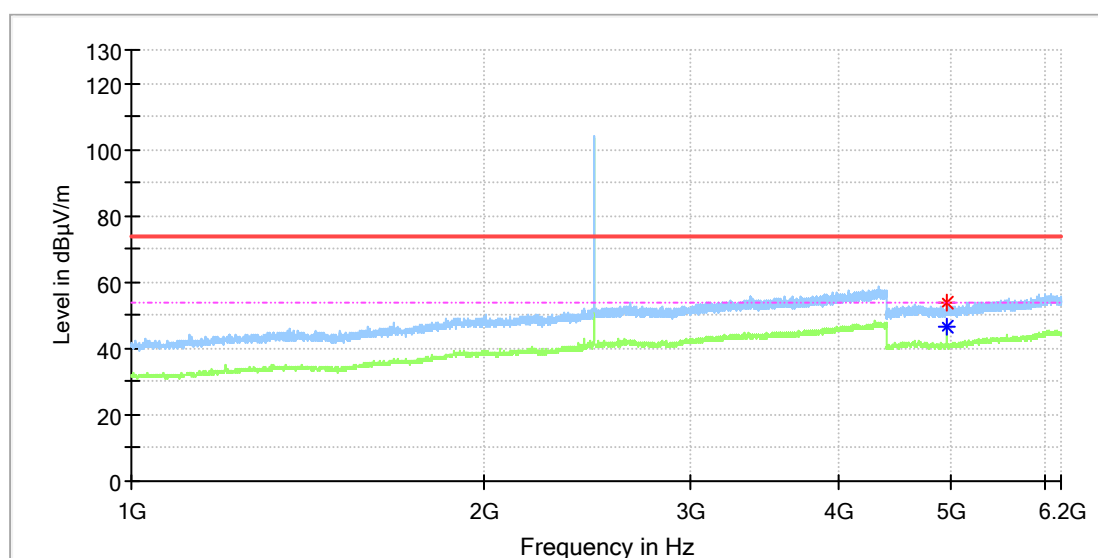


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7422.775000	44.72	---	74.00	29.28	150.0	V	95.0	8.4
7503.900000	---	36.52	54.00	17.48	150.0	V	50.0	8.7
12147.691667	---	43.79	54.00	10.21	150.0	V	210.0	16.7
12148.183333	51.19	---	74.00	22.81	150.0	V	241.0	16.7

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_High channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

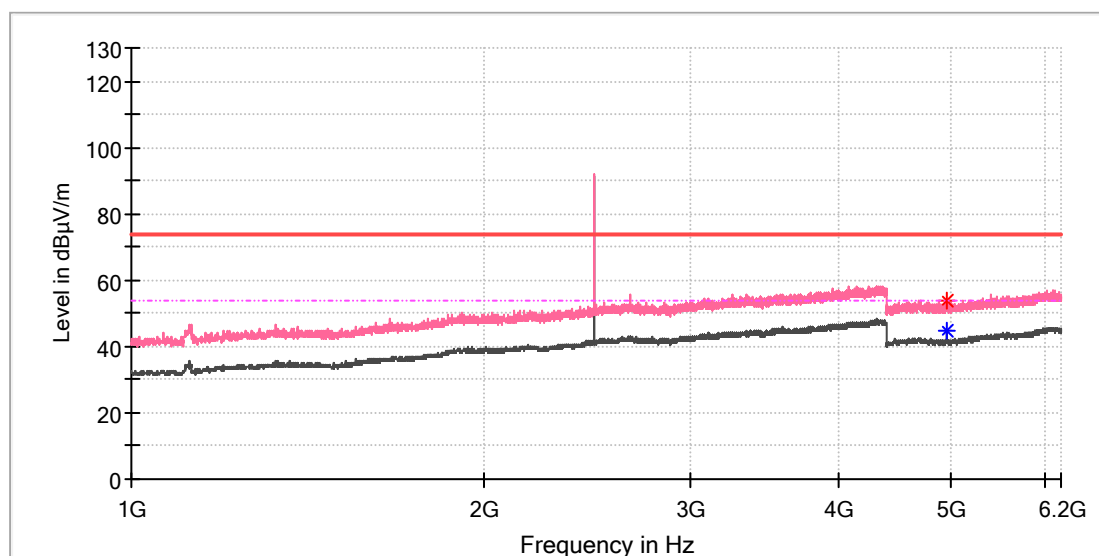


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	53.55	---	74.00	20.45	150.0	H	163.0	13.3
4960.000000	---	46.86	54.00	7.14	150.0	H	163.0	13.3

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_High channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

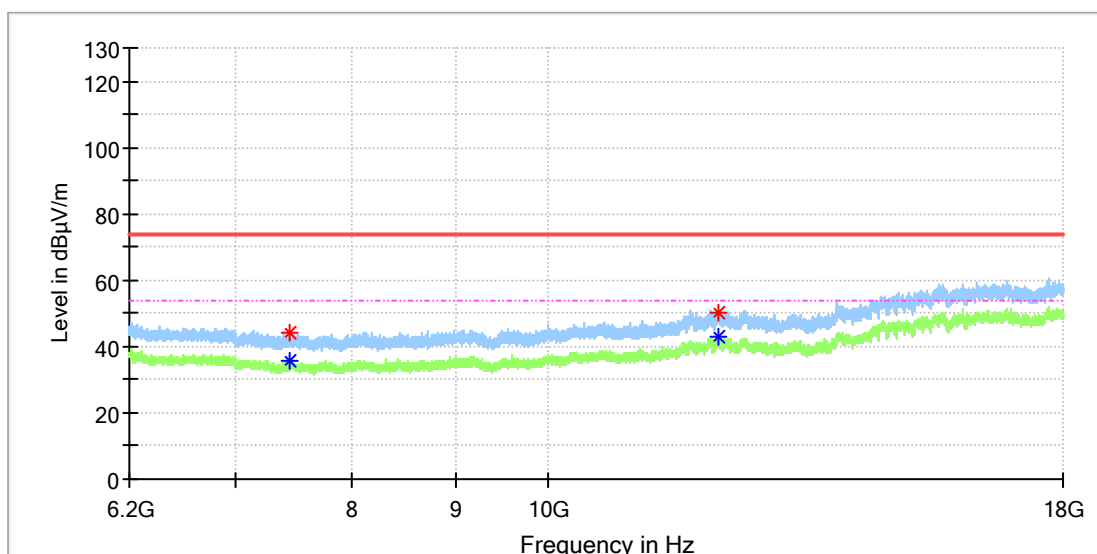


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.000000	53.62	---	74.00	20.38	150.0	V	54.0	13.3
4960.000000	---	44.75	54.00	9.25	150.0	V	90.0	13.3

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_High channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

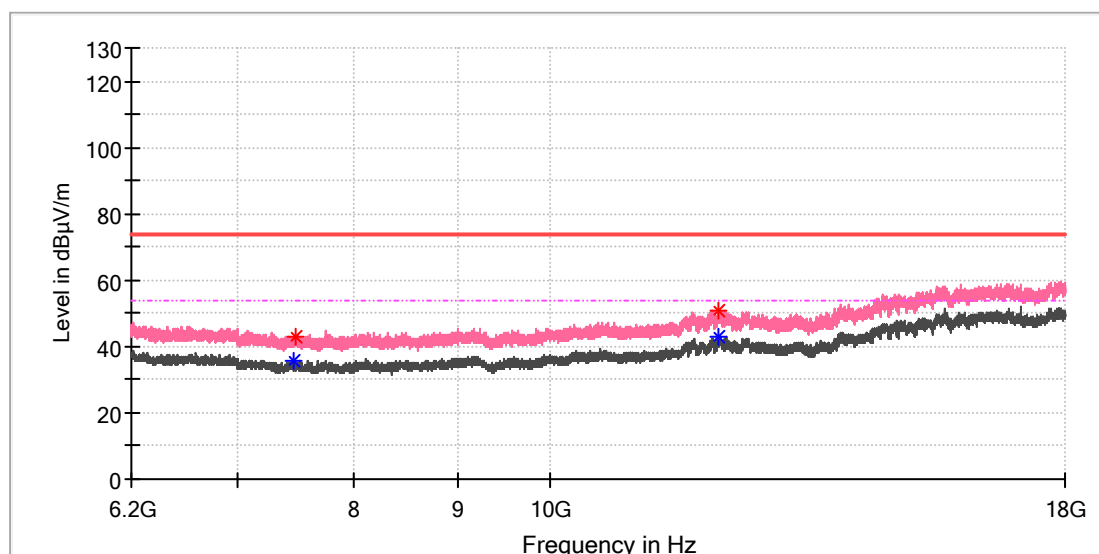


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7449.816667	43.90	---	74.00	30.10	150.0	H	78.0	8.5
7451.783333	---	35.73	54.00	18.27	150.0	H	180.0	8.5
12154.083333	---	42.87	54.00	11.13	150.0	H	17.0	16.5
12156.050000	50.45	---	74.00	23.55	150.0	H	169.0	16.4

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_High channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



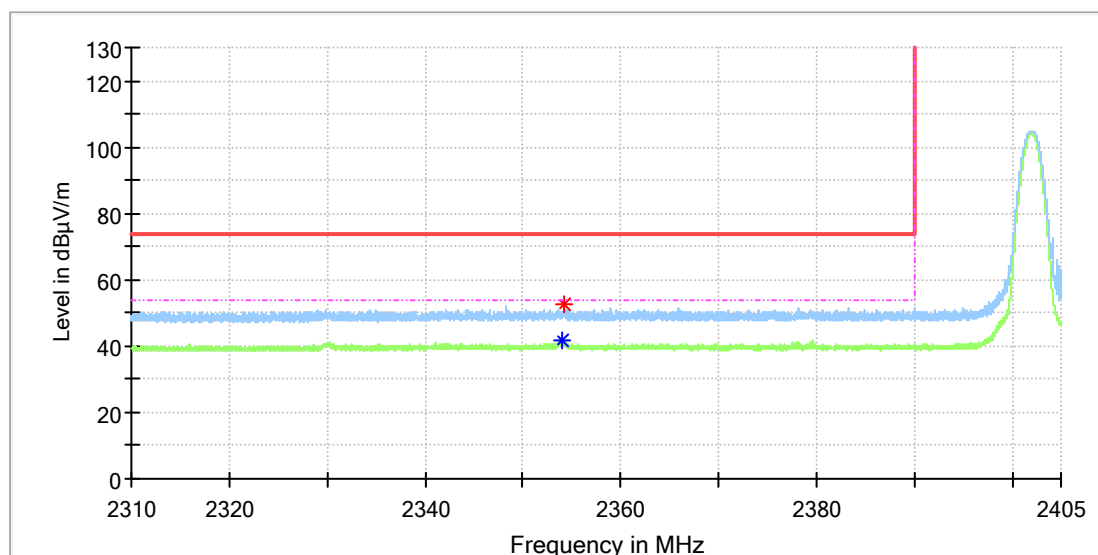
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7463.091667	---	35.49	54.00	18.51	150.0	V	65.0	8.6
7471.941667	43.12	---	74.00	30.88	150.0	V	0.0	8.6
12121.633333	---	43.20	54.00	10.80	150.0	V	0.0	16.0
12123.600000	50.77	---	74.00	23.23	150.0	V	120.0	16.0

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

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA12P
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168522187/A003898369-002
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

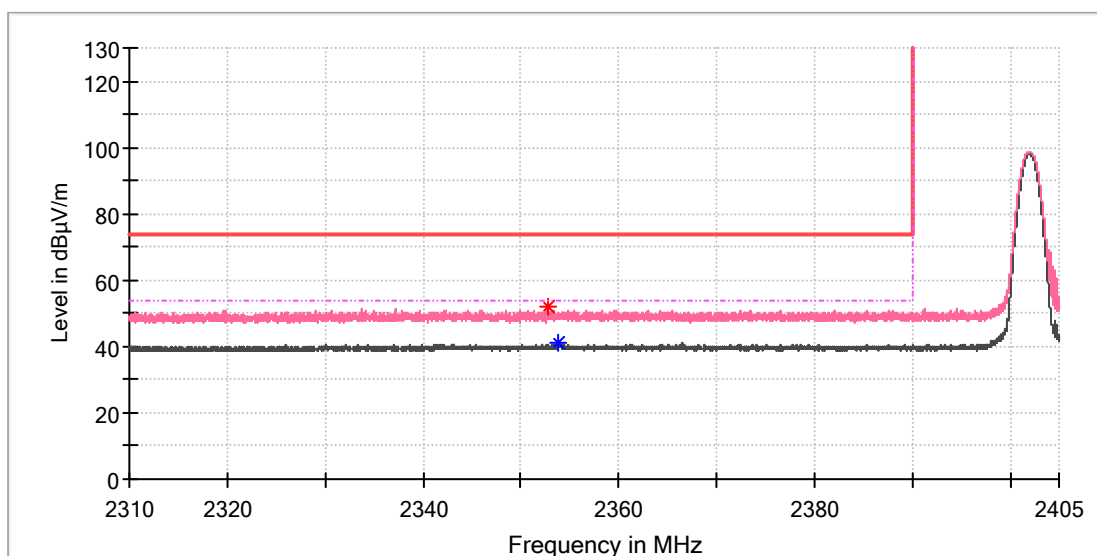


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2353.979412	---	41.81	54.00	12.19	150.0	H	10.0	8.5
2354.230882	52.30	---	74.00	21.70	150.0	H	4.0	8.5

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA12P
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168522187/A003898369-002
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

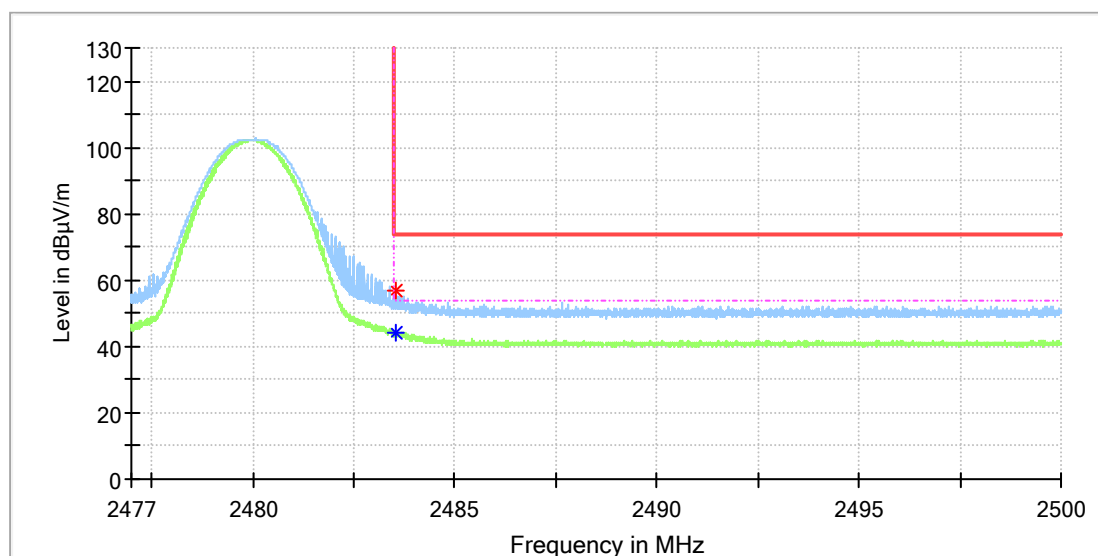


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2352.722059	51.84	---	74.00	22.17	150.0	V	47.0	8.5
2353.783824	---	41.10	54.00	12.90	150.0	V	118.0	8.5

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA12P
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168522187/A003898369-002
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

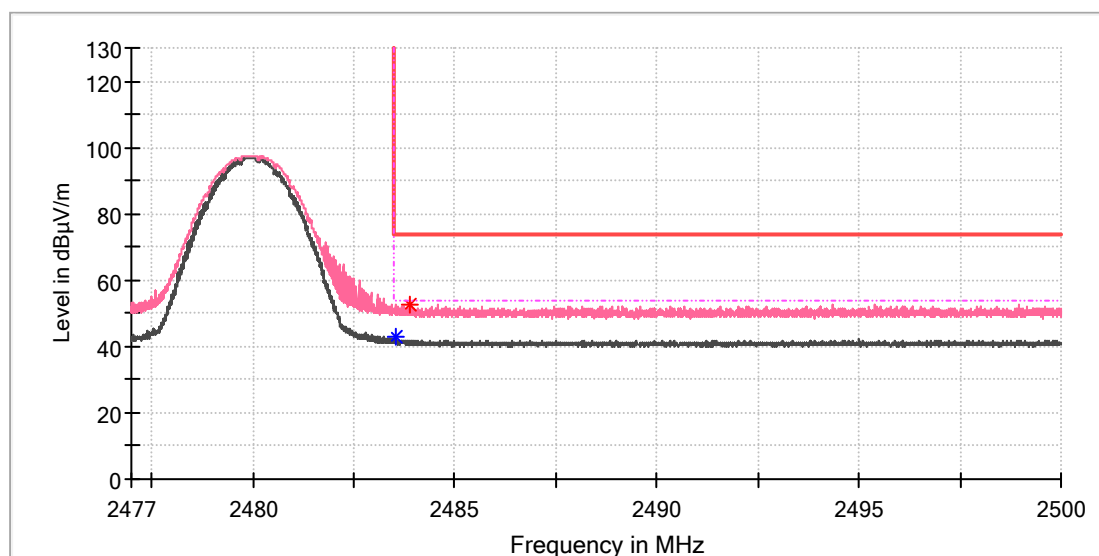


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.536765	---	44.29	54.00	9.71	150.0	H	0.0	9.0
2483.536765	56.68	---	74.00	17.32	150.0	H	0.0	9.0

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA12P
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168522187/A003898369-002
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

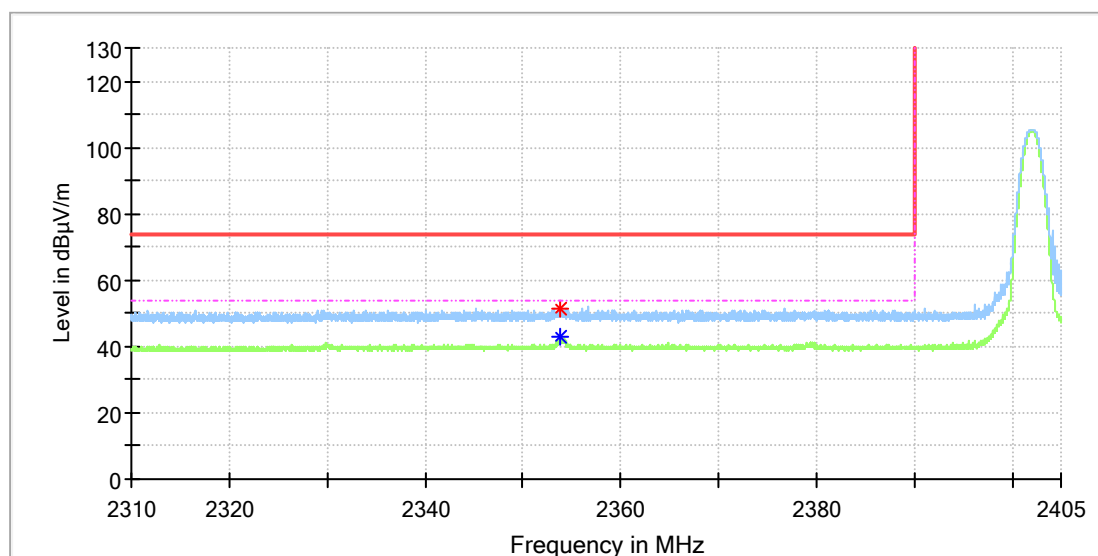


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.534706	---	42.74	54.00	11.26	150.0	V	58.0	9.0
2483.872941	52.90	---	74.00	21.10	150.0	V	37.0	9.0

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

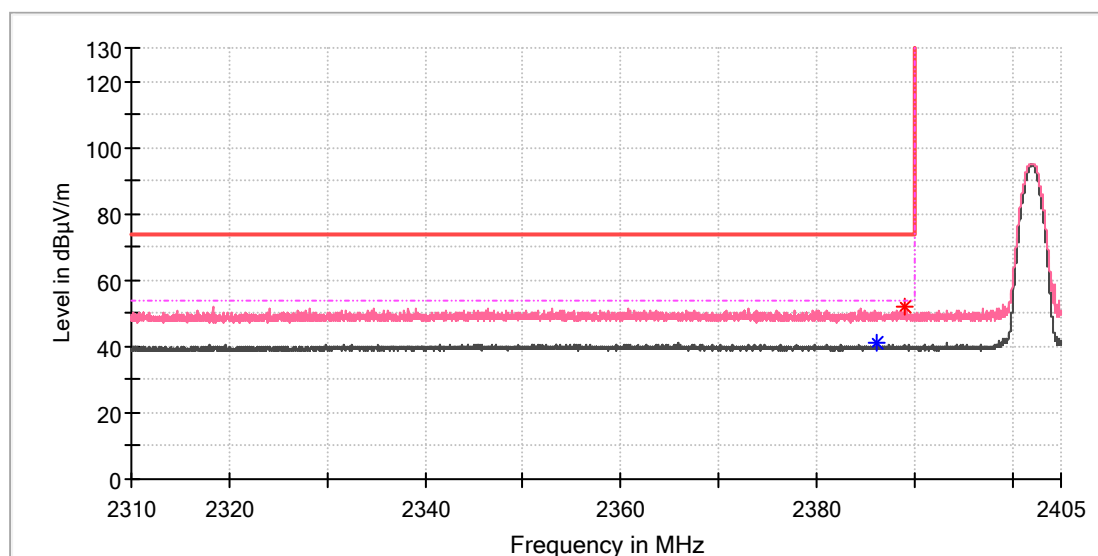


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2353.839706	51.69	---	74.00	22.31	150.0	H	104.0	8.5
2353.839706	---	43.00	54.00	11.00	150.0	H	104.0	8.5

EUT Information

EUT Name: POWERED LOUDSPEAKER
Model: EVIVA15P
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168522187/A003902133-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

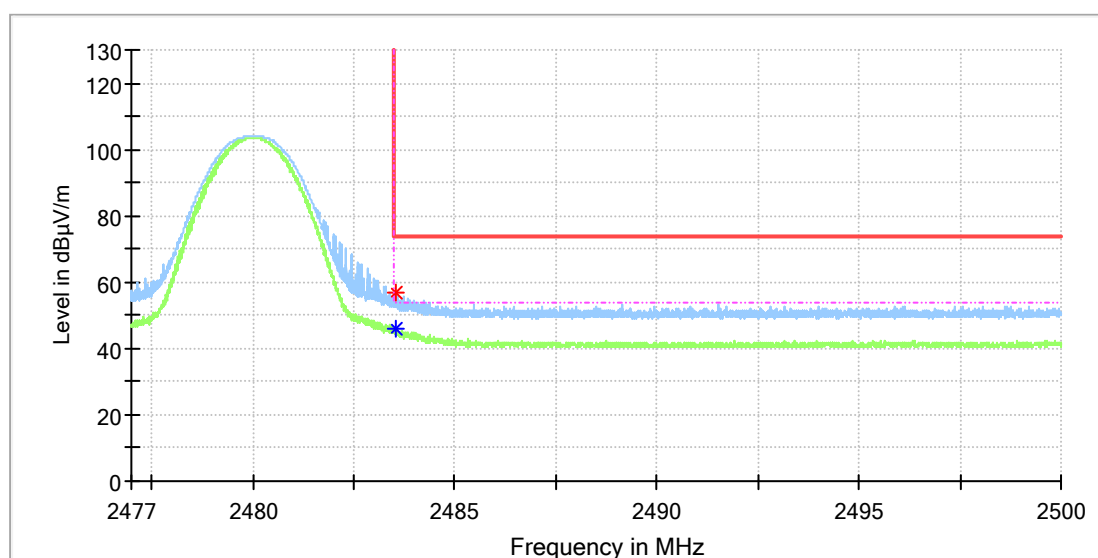


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.195588	---	41.07	54.00	12.93	150.0	V	23.0	8.5
2388.961765	52.05	---	74.00	21.95	150.0	V	35.0	8.5

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA15P
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168522187/A003902133-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

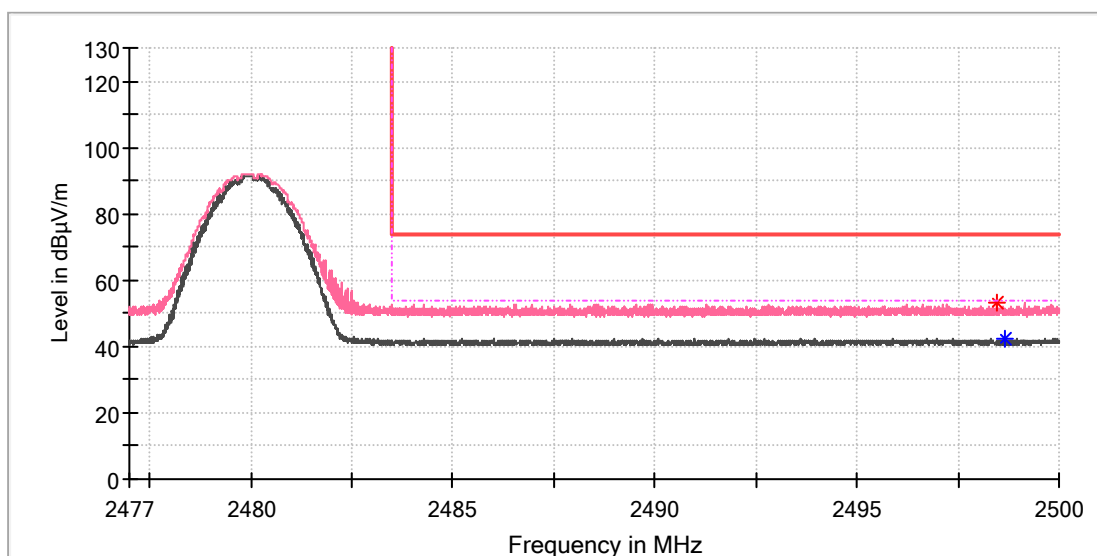


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.534706	56.88	---	74.00	17.12	150.0	H	0.0	9.0
2483.544853	---	46.11	54.00	7.89	150.0	H	0.0	9.0

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Model:	EVIVA15P
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168522187/A003902133-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



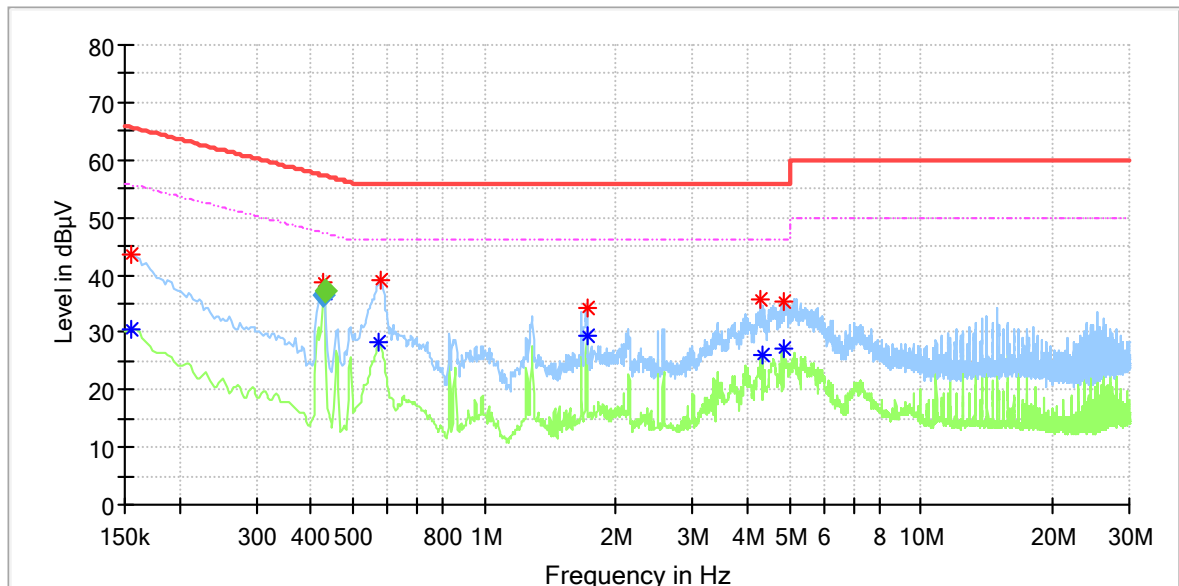
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2498.464412	53.24	---	74.00	20.76	150.0	V	188.0	9.0
2498.663971	---	42.22	54.00	11.78	150.0	V	289.0	9.0

Appendix B.10: Test Results of Conducted Emissions on AC Mains

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Order Number:	168522187
Model:	EVIVA12P
Test Mode:	ON, Bluetooth playing
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15C
Test By:/Review By:	Charlie Zha/Shower dai
Tem./Hum./Pressure:	23.2°C/49.1%/101kPa



Critical_Freqs

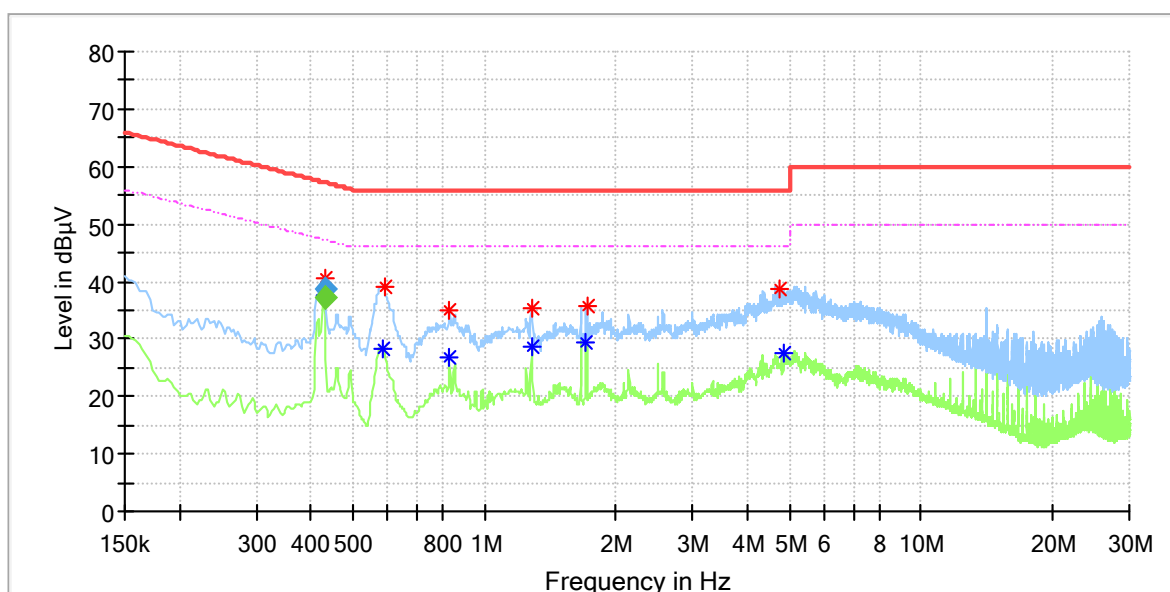
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.155970	---	30.47	55.68	25.20	L1	10.2
0.155970	43.62	---	65.68	22.06	L1	10.2
0.426620	38.63	---	57.36	18.72	L1	10.3
0.429605	---	37.02	47.30	10.28	L1	10.3
0.573870	---	28.21	46.00	17.79	L1	10.3
0.576855	39.07	---	56.00	16.93	L1	10.3
1.714140	---	29.56	46.00	16.44	L1	10.3
1.714140	34.13	---	56.00	21.87	L1	10.3
4.281240	35.54	---	56.00	20.46	L1	10.4
4.314075	---	26.00	46.00	20.00	L1	10.4
4.836450	---	27.17	46.00	18.83	L1	10.4
4.836450	35.52	---	56.00	20.48	L1	10.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.426620	36.56	---	57.32	20.76	1000.0	9.000	L1	10.3
0.429605	---	37.14	47.26	10.12	1000.0	9.000	L1	10.3

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Order Number:	168522187
Model:	EVIVA12P
Test Mode:	ON, Bluetooth playing
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15C
Test By:/Review By:	Charlie Zha/Shower dai
Tem./Hum./Pressure:	23.2°C/49.1%/101kPa



Critical Freqs

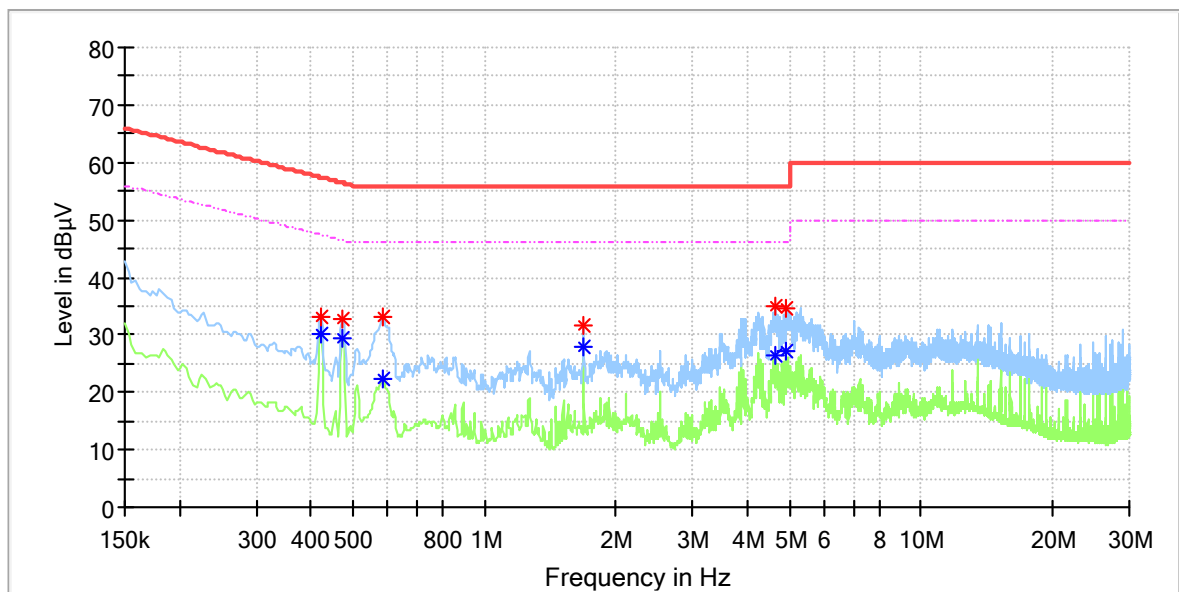
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.429605	---	37.56	47.30	9.74	N	10.2
0.429605	40.57	---	57.30	16.73	N	10.2
0.585810	---	28.13	46.00	17.87	N	10.2
0.588795	39.21	---	56.00	16.79	N	10.2
0.830580	---	26.65	46.00	19.35	N	10.3
0.830580	34.92	---	56.00	21.08	N	10.3
1.281315	35.43	---	56.00	20.57	N	10.3
1.284300	---	28.61	46.00	17.39	N	10.3
1.711155	---	29.34	46.00	16.66	N	10.3
1.714140	35.90	---	56.00	20.10	N	10.3
4.752870	38.85	---	56.00	17.15	N	10.3
4.833465	---	27.47	46.00	18.53	N	10.3

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.429605	---	37.27	47.26	10.00	1000.0	9.000	N	10.2
0.429605	38.66	---	57.26	18.60	1000.0	9.000	N	10.2

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Order Number:	168522187
Model:	EVIVA15P
Test Mode:	ON, Bluetooth playing
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15B
Test By:/Review By:	Charlie Zha/Shower dai
Tem./Hum./Pressure:	23.2°C/49.1%/101kPa

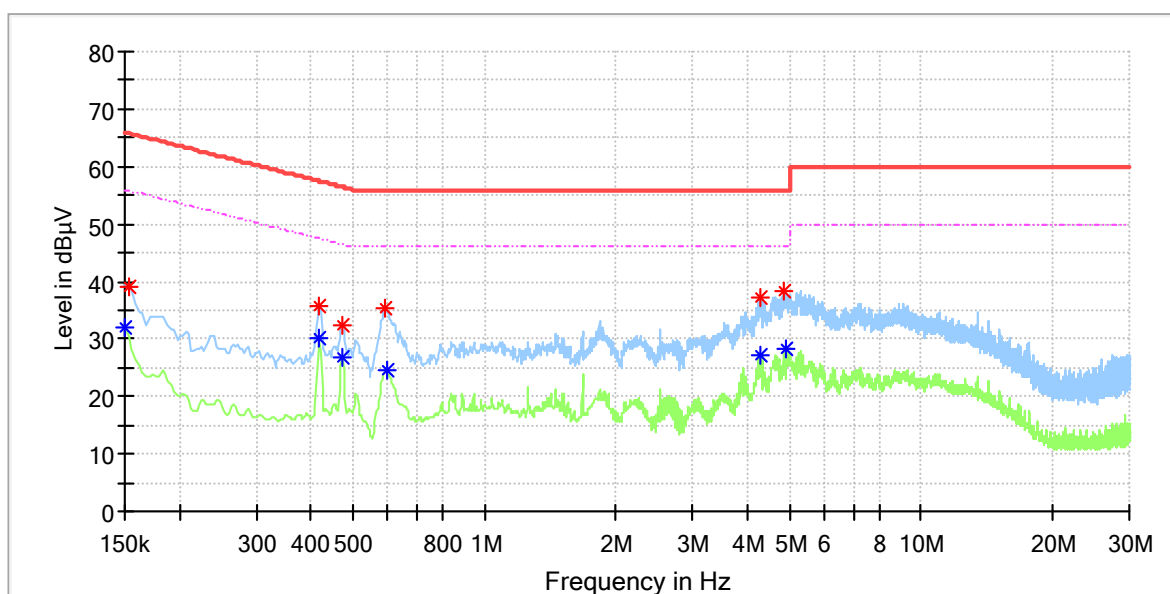


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.421635	---	30.12	47.42	17.30	L1	10.3
0.421635	33.27	---	57.42	24.14	L1	10.3
0.472380	32.56	---	56.47	23.91	L1	10.3
0.472380	---	29.29	46.47	17.19	L1	10.3
0.582825	---	22.33	46.00	23.67	L1	10.3
0.585810	33.23	---	56.00	22.77	L1	10.3
1.687275	31.63	---	56.00	24.37	L1	10.3
1.687275	---	27.85	46.00	18.15	L1	10.3
4.633470	35.05	---	56.00	20.95	L1	10.4
4.633470	---	26.24	46.00	19.76	L1	10.4
4.911075	34.77	---	56.00	21.23	L1	10.4
4.914060	---	27.22	46.00	18.78	L1	10.4

EUT Information

EUT Name:	POWERED LOUDSPEAKER
Order Number:	168522187
Model:	EVIVA15P
Test Mode:	ON, Bluetooth playing
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15B
Test By:/Review By:	Charlie Zha/Shower dai
Tem./Hum./Pressure:	23.2°C/49.1%/101kPa



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	32.06	56.00	23.94	N	10.2
0.152985	39.22	---	65.84	26.62	N	10.2
0.418650	---	29.99	47.48	17.49	N	10.2
0.418650	35.73	---	57.48	21.75	N	10.2
0.472380	32.42	---	56.47	24.05	N	10.2
0.472380	---	26.84	46.47	19.63	N	10.2
0.594765	35.47	---	56.00	20.53	N	10.3
0.597750	---	24.55	46.00	21.45	N	10.3
4.296165	37.35	---	56.00	18.65	N	10.3
4.299150	---	27.34	46.00	18.66	N	10.3
4.866300	38.17	---	56.00	17.83	N	10.3
4.902120	---	28.33	46.00	17.67	N	10.3