

Prüfbericht-Nr.: Test report no.:	CN23B7WI 002	Auftrags-Nr.: Order no.:	168450029	Page 1 of 23 Seite 1 von 23
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2023-10-30	
Auftraggeber: Client:	Harman International Industries, Inc 8500 Balboa Blvd, Northridge, California, 91329, United States			
Prüfgegenstand: Test item:	Bluetooth Speaker			
Bezeichnung / Typ-Nr.: Identification / Type no.:	PARTYBOX CLUB 120G (Trademark: JBL)			
Auftrags-Inhalt: Order content:	Type test			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 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:	2023-11-06	Refer to photos document		
Prüfmuster-Nr.: Test sample no.:	A003595895			
Prüfzeitraum: Testing period:	2023-11-06 – 2023-11-27			
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:	2023-12-05 Signed by: Harry W. C. Wu		Ausstellungsdatum: Issue date:	2023-12-05 Signed by: Alex Lan
Stellung / Position:	Project Manager		Stellung / Position:	Reviewer
Sonstiges / Other:	FCC ID: APIPBCLUB120G IC: 6132A-PBCLUB120G HVIN: PARTYBOX CLUB 120G			
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	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>
2	As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. <i>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</i>
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 PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 99%dB BANDWIDTH

RESULT: Pass

5.1.5 6dB BANDWIDTH

RESULT: Pass

5.1.6 FREQUENCY STABILITY

RESULT: Pass

5.1.7 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.8 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.9 CONDUCTED EMISSIONS

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

Conducted Emission on AC Mains				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR3	102428	2024-09-13
Artificial Mains Network	R&S	ENV216	102333	2024-07-31
Impedance Stabilisation Network	R&S	ENY81-CA6	101810	2024-07-31
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
Radio Spectrum Testing (TS8997)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Wireless Connectivity Tester	R&S	CMW270	101375	25.07.2024
Signal Analyzer	R&S	FSV 40	101441	25.07.2024
Vector Signal Generator	R&S	SMBV100A	263301	25.07.2024
Signal Generator	R&S	SMB100A	115186	25.07.2024
OSP	R&S	OSP 150	101017	13.11.2024
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	13.11.2024
Power Sensor	R&S	NRP-Z81	105677	25.07.2024
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	15.03.2024
Shielding Room 8#	Albatross	SR8	APC17151-SR8	22.06.2024
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	25.07.2024
Signal Analyzer	R&S	FSV 40	101439	25.07.2024
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	25.07.2024
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	25.07.2024
Amplifier	R&S	SCU-18F	180070	25.07.2024
Amplifier	R&S	SCU40A	100475	25.07.2024
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	06.08.2024
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	06.08.2024
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.08.2024
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	06.08.2024
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	22.06.2024

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)
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB
Occupied Channel Bandwidth	± 2.08 %
RF output power, conducted	± 0.99 dB
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

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

3 General Product Information

3.1 Product Function and Intended Use

The EUT is Bluetooth Speaker, which supports Bluetooth dual mode technology.
For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Bluetooth Speaker
Type Designation	PARTYBOX CLUB 120G
Trademark	JBL
FCC ID	APIPBCLUB120G
IC	6132A-PBCLUB120G
HVIN	PARTYBOX CLUB 120G
Extreme Temperature Range	0°C to +45°C
Operating Voltage	100-240Vac, 50/60Hz, 80W USB output: 5Vdc, 2.1A Battery pack: 7.2V, 4722mAh, 34Wh
Technical Specification of Classical Bluetooth	
Bluetooth Core Version	Bluetooth 5.4
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	2.13 dBi (Provided by the Client)
Technical Specification of Bluetooth Low Energy	
Bluetooth Core Version	Bluetooth 5.4
Operating Frequency band	2402 ~ 2480 MHz for 1Mbps 2404 ~ 2478 MHz for 2Mbps
Channel Number	40 channels for 1Mbps 38 channels for 2Mbps
Channel separation	2MHz
Data rate	1Mbps, 2Mbps
Modulation	GFSK
Antenna Type	FPC Antenna
Antenna Gain	2.13 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

3.3 Independent Operation Modes

The basic operation modes are:

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

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

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

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all test items were applied on model PARTYBOX CLUB 120G.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

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

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

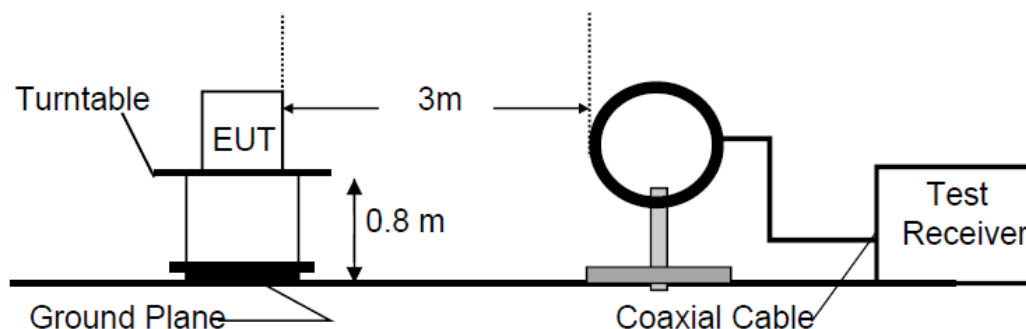


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

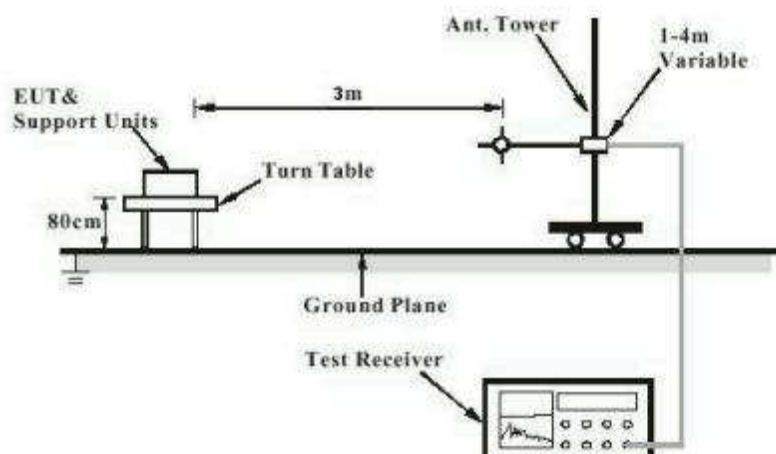


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

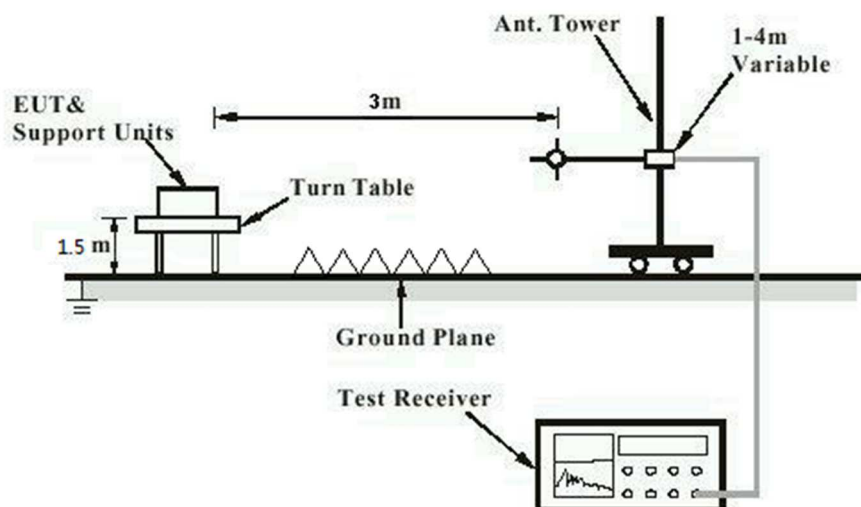


Diagram of Measurement Configuration for Conducted Transmitter Measurement

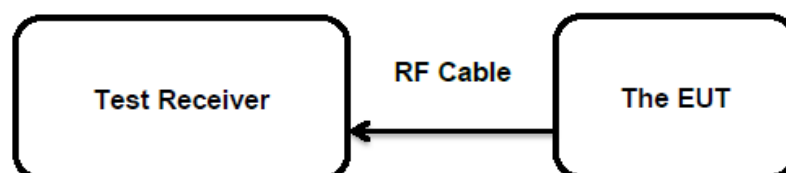
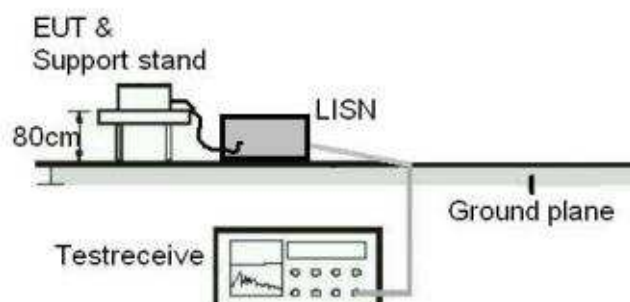


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



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

According to the manufacturer declared, the EUT has one FPC Antenna, the directional gain of antenna is 2.13 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 Peak Conducted Output Power

RESULT:
Pass
Test Specification

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

Test Setup

Date of testing : 2023-11-16 to 2023-11-27
 Input voltage : AC120V, 60Hz
 Operation mode : A
 Test channel : Low / Middle / High
 Ambient temperature : 24.6 °C
 Relative humidity : 51 %
 Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 6: Test Result of Maximum Peak Conducted Output Power

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
BLE 1Mbps	2402	7.01	0.0050	< 1.0
	2440	7.23	0.0053	
	2480	7.14	0.0052	
BLE 2Mbps	2404	7.03	0.0050	
	2440	7.22	0.0053	
	2478	7.15	0.0052	
Maximum Measured Value		7.23	0.0053	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 9.36 dBm less than 4W (36 dBm).

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5.1.3 Conducted Power Spectral Density

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

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

Test Setup

Date of testing	:	2023-11-16 to 2023-11-27
Input voltage	:	AC120V, 60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.6 °C
Relative humidity	:	51 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

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5.1.4 99%dB Bandwidth

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

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

Test Setup

Date of testing	: 2023-11-16 to 2023-11-27
Input voltage	: AC120V, 60Hz
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.6 °C
Relative humidity	: 51 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

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5.1.5 6dB Bandwidth

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

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

Test Setup

Date of testing	:	2023-11-16 to 2023-11-27
Input voltage	:	AC120V, 60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.6 °C
Relative humidity	:	51 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

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5.1.6 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	: 2023-11-16 to 2023-11-27
Input voltage	: AC120V, 60Hz
Operation mode	: B
Ambient temperature	: 24.6 °C
Relative humidity	: 51 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B

Prüfbericht-Nr.: **CN23B7WI 002**
Test report no.:Seite 20 von 23
Page 20 of 23**5.1.7 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2023-11-16 to 2023-11-27
Input voltage	: AC120V, 60Hz
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.6 °C
Relative humidity	: 51 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

Prüfbericht-Nr.: **CN23B7WI 002**
Test report no.:Seite 21 von 23
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5.1.8 Radiated Spurious Emission

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

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

Test Setup

Date of testing	:	2023-11-16 to 2023-11-27
Input voltage	:	AC120V, 60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

Prüfbericht-Nr.: **CN23B7WI 002**
Test report no.:Seite 22 von 23
Page 22 of 23

5.1.9 Conducted Emissions

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

Test standard : FCC part 15.207(a)
RSS-GEN Clause 8.8

Basic standard : ANSI C63.10: 2013

Limits : Refer to 15.207(a)
RSS-Gen Table 4

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2023-11-16 to 2023-11-27

Input voltage : AC120V, 60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : Refer to test result

Relative humidity : Refer to test result

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.

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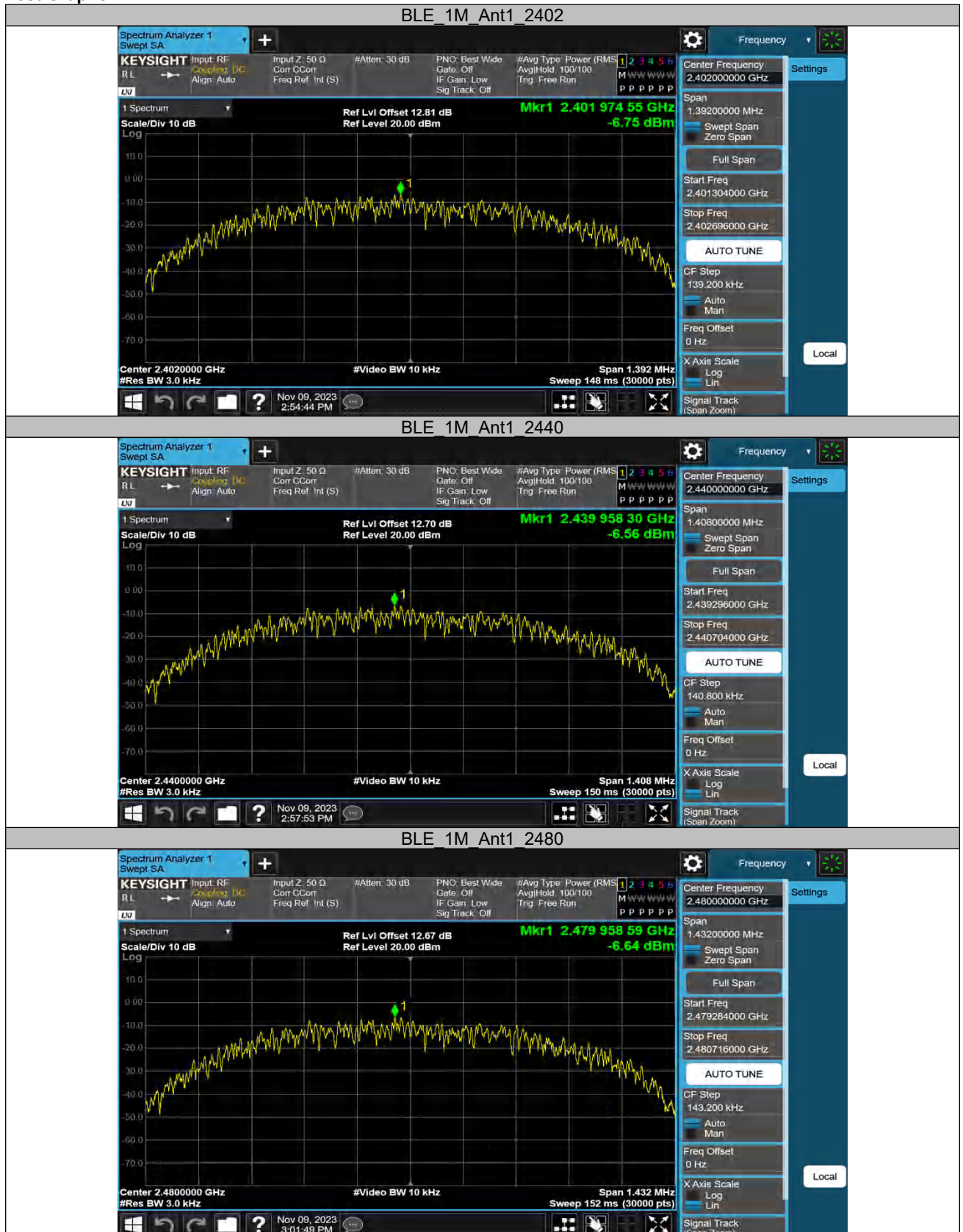
Appendix B: Test Results

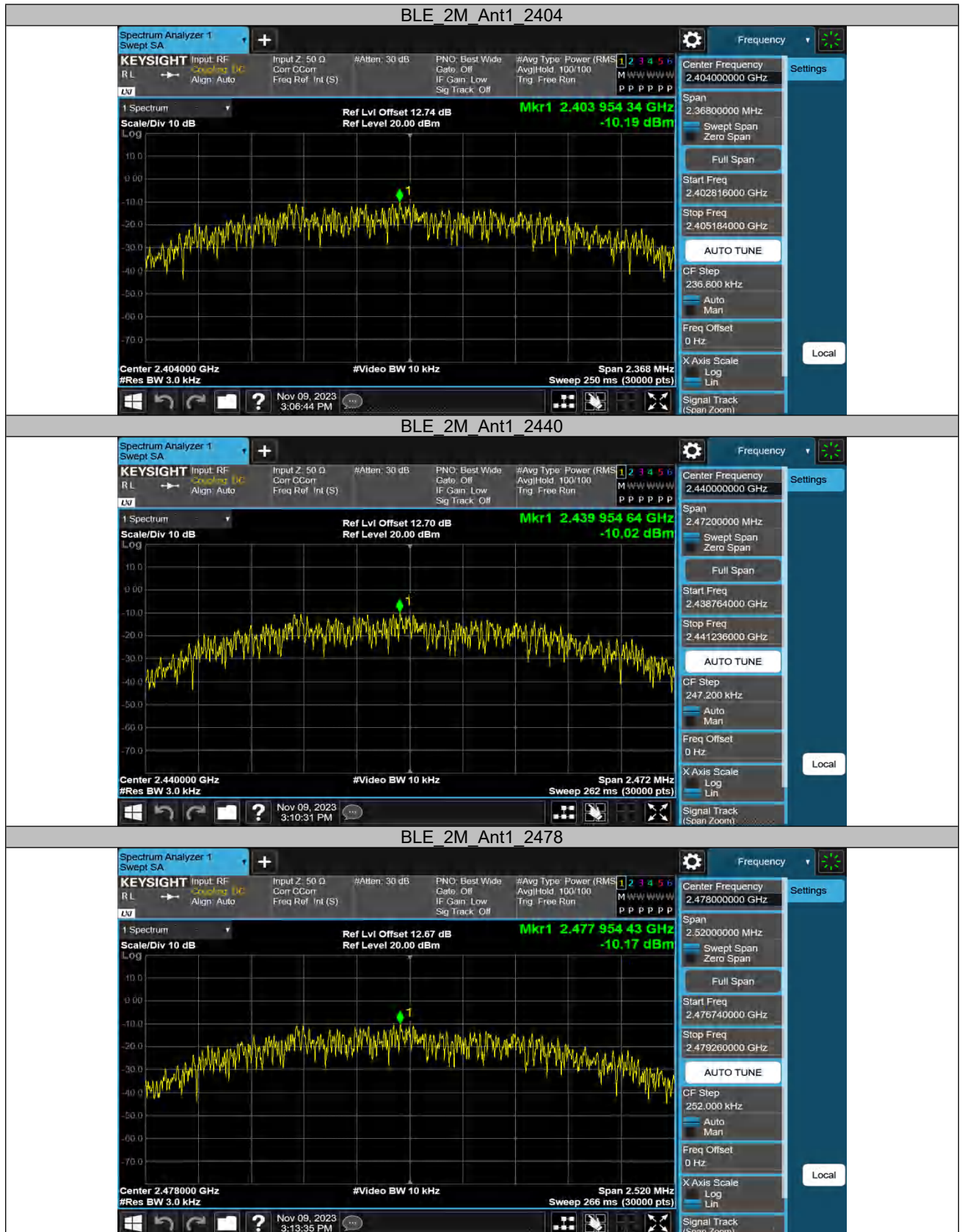
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Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.75	≤8.00	PASS
		2440	-6.56	≤8.00	PASS
		2480	-6.65	≤8.00	PASS
BLE_2M	Ant1	2404	-10.19	≤8.00	PASS
		2440	-10.02	≤8.00	PASS
		2478	-10.17	≤8.00	PASS

Test Graphs





Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.644	2402.340	0.5	PASS
		2440	0.704	2439.636	2440.340	0.5	PASS
		2480	0.716	2479.632	2480.348	0.5	PASS
BLE_2M	Ant1	2404	1.184	2403.404	2404.588	0.5	PASS
		2440	1.236	2439.340	2440.576	0.5	PASS
		2478	1.260	2477.352	2478.612	0.5	PASS

Test Graphs

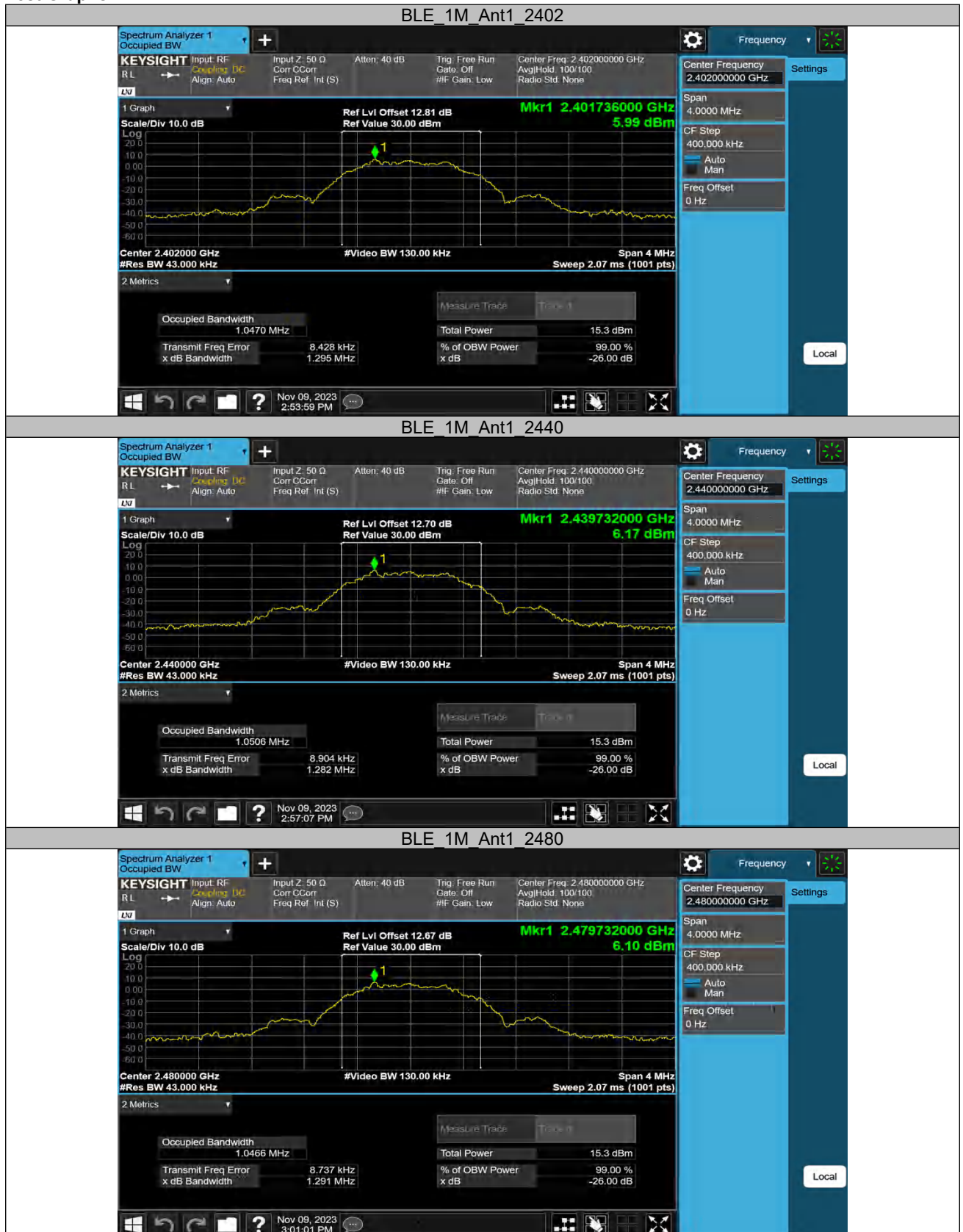


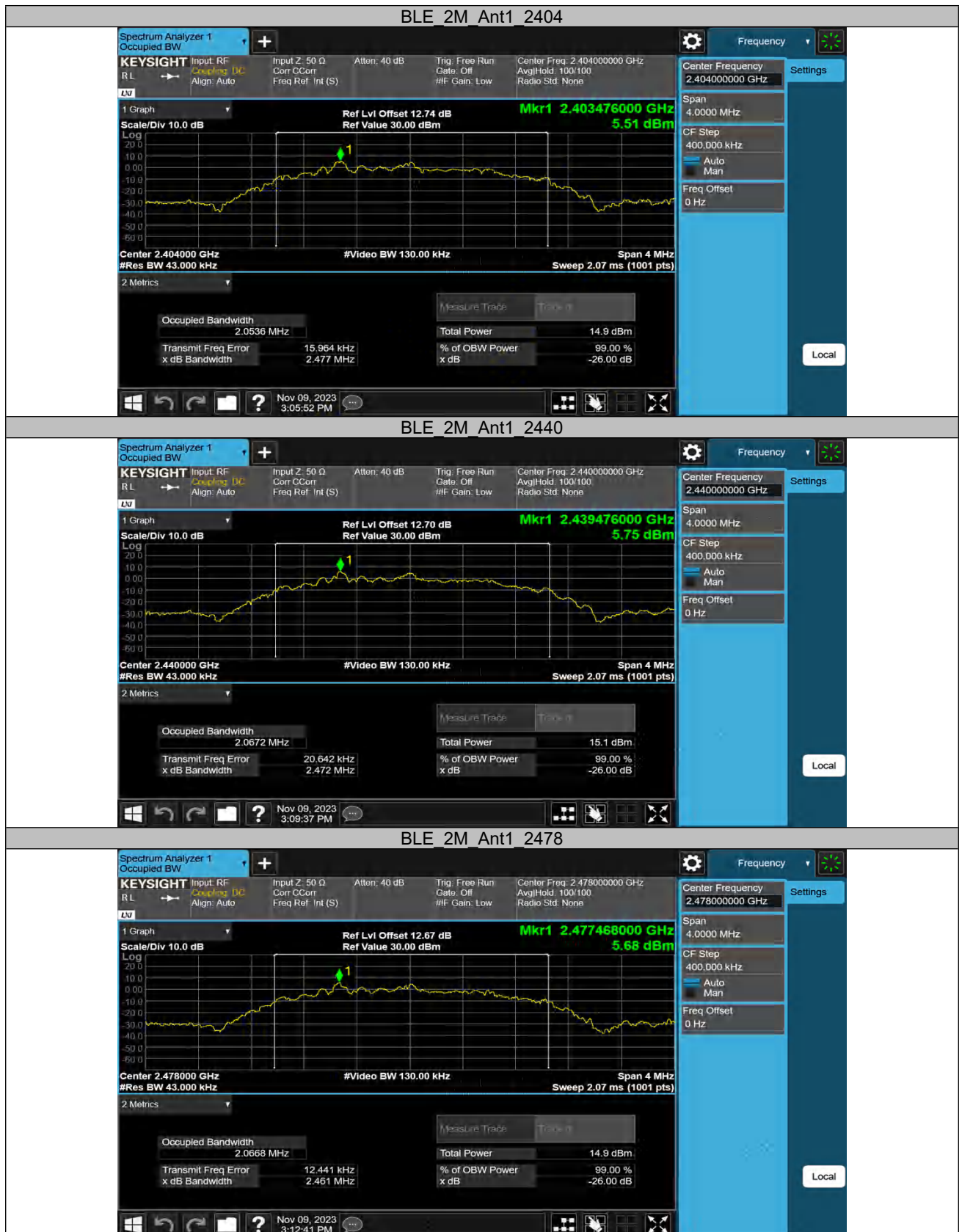


Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0470	2401.4849	2402.5319	---	---
		2440	1.0506	2439.4836	2440.5342	---	---
		2480	1.0466	2479.4854	2480.5320	---	---
BLE_2M	Ant1	2404	2.0536	2402.9892	2405.0428	---	---
		2440	2.0672	2438.9870	2441.0542	---	---
		2478	2.0668	2476.9790	2479.0458	---	---

Test Graphs





Appendix B.4: 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 207V	2401.998	2	0.83	10
AC 230V	2401.999	1	0.42	
AC 253V	2401.998	2	0.83	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2401.996	4	1.67	10
-20	2401.996	4	1.67	
-10	2401.997	3	1.25	
0	2401.997	1	0.42	
10	2401.999	1	0.42	
20	2401.999	1	0.42	
30	2401.999	1	0.42	
40	2401.998	2	0.83	
50	2401.998	2	0.83	
55	2401.998	2	0.83	

Test Channel (MHz)	2440
--------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
AC 207V	2439.998	-2	-0.81967	10
AC 230V	2439.998	-2	-0.81967	
AC 253V	2439.998	-2	-0.81967	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2439.998	-2	-0.81967	10
-20	2439.998	-2	-0.81967	
-10	2439.998	-2	-0.81967	
0	2439.999	-1	-0.40984	
10	2439.999	-1	-0.40984	
20	2439.999	-1	-0.40984	
30	2439.999	-1	-0.40984	
40	2439.998	-2	-0.81967	
50	2439.998	-2	-0.81967	
55	2439.998	-2	-0.81967	

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 207V	2479.998	-2	-0.81	10
AC 230V	2479.998	-2	-0.81	
AC 253V	2479.998	-2	-0.81	

Test result of frequency tolerance of temperature variation

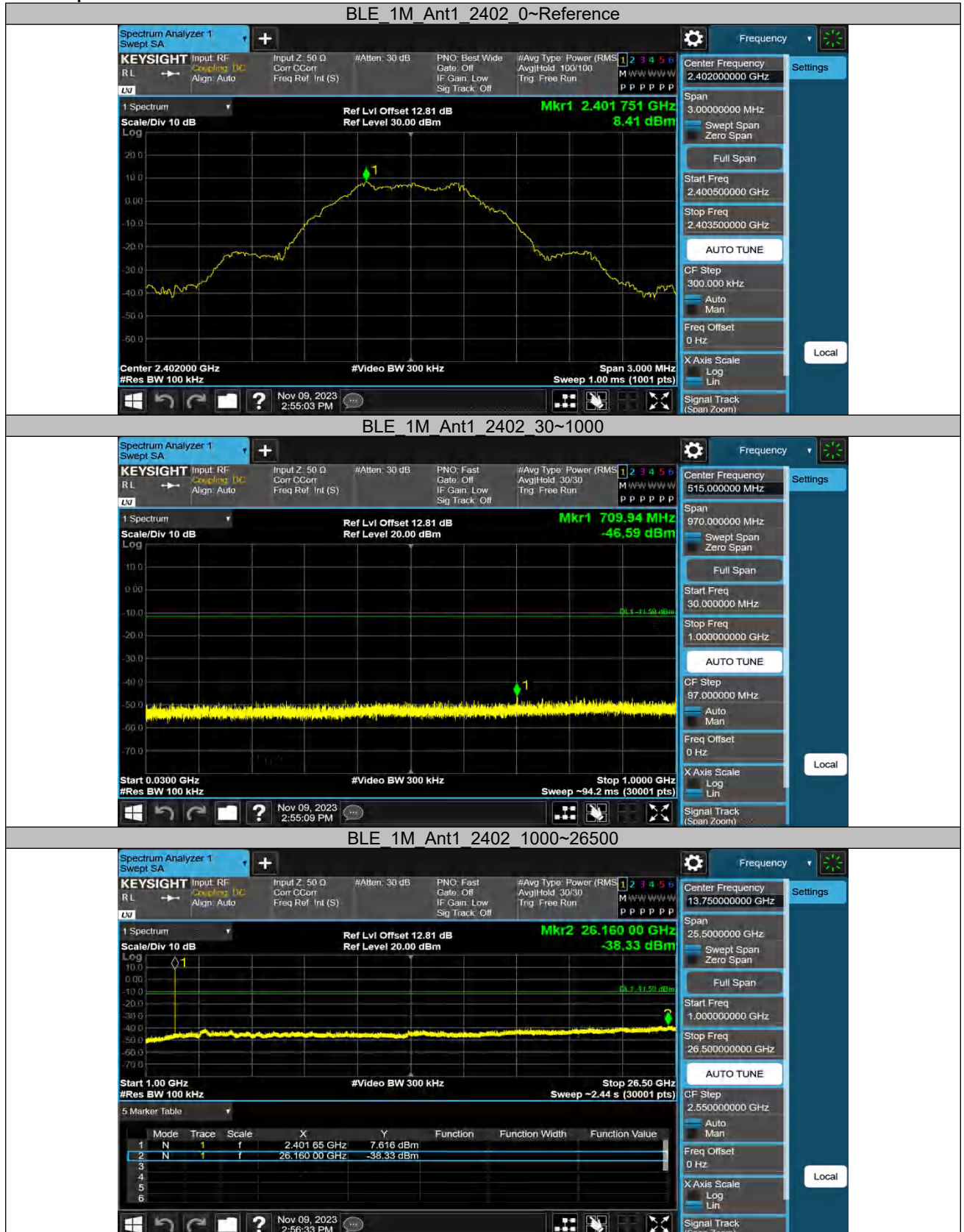
Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2479.997	-3	-1.21	10
-20	2479.998	-2	-0.81	
-10	2479.998	-2	-0.81	
0	2479.998	-2	-0.81	
10	2479.999	-1	-0.40	
20	2479.999	-1	-0.40	
30	2479.998	-2	-0.81	
40	2479.999	-1	-0.40	
50	2479.998	-2	-0.81	
55	2479.998	-2	-0.81	

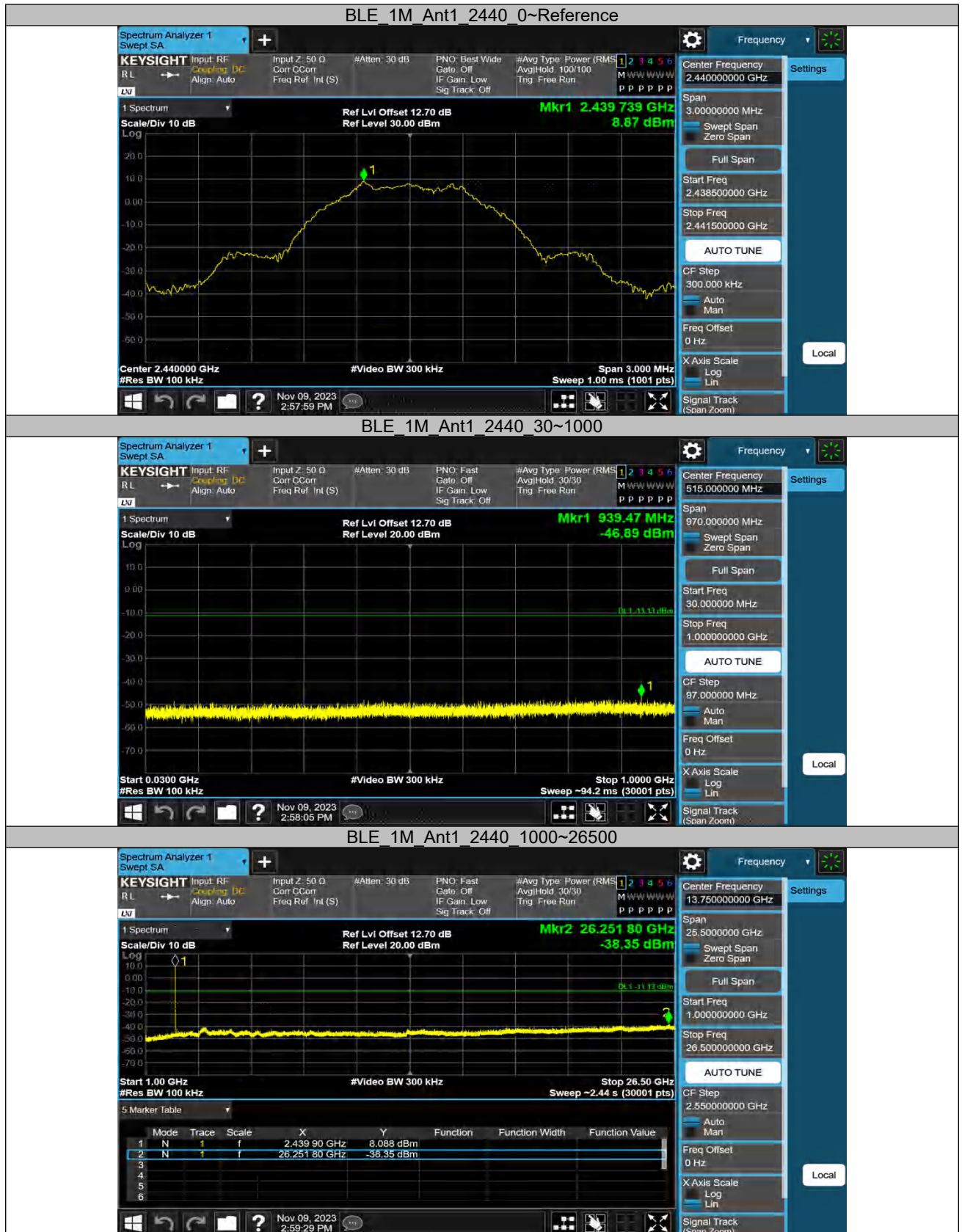
Appendix B.5: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

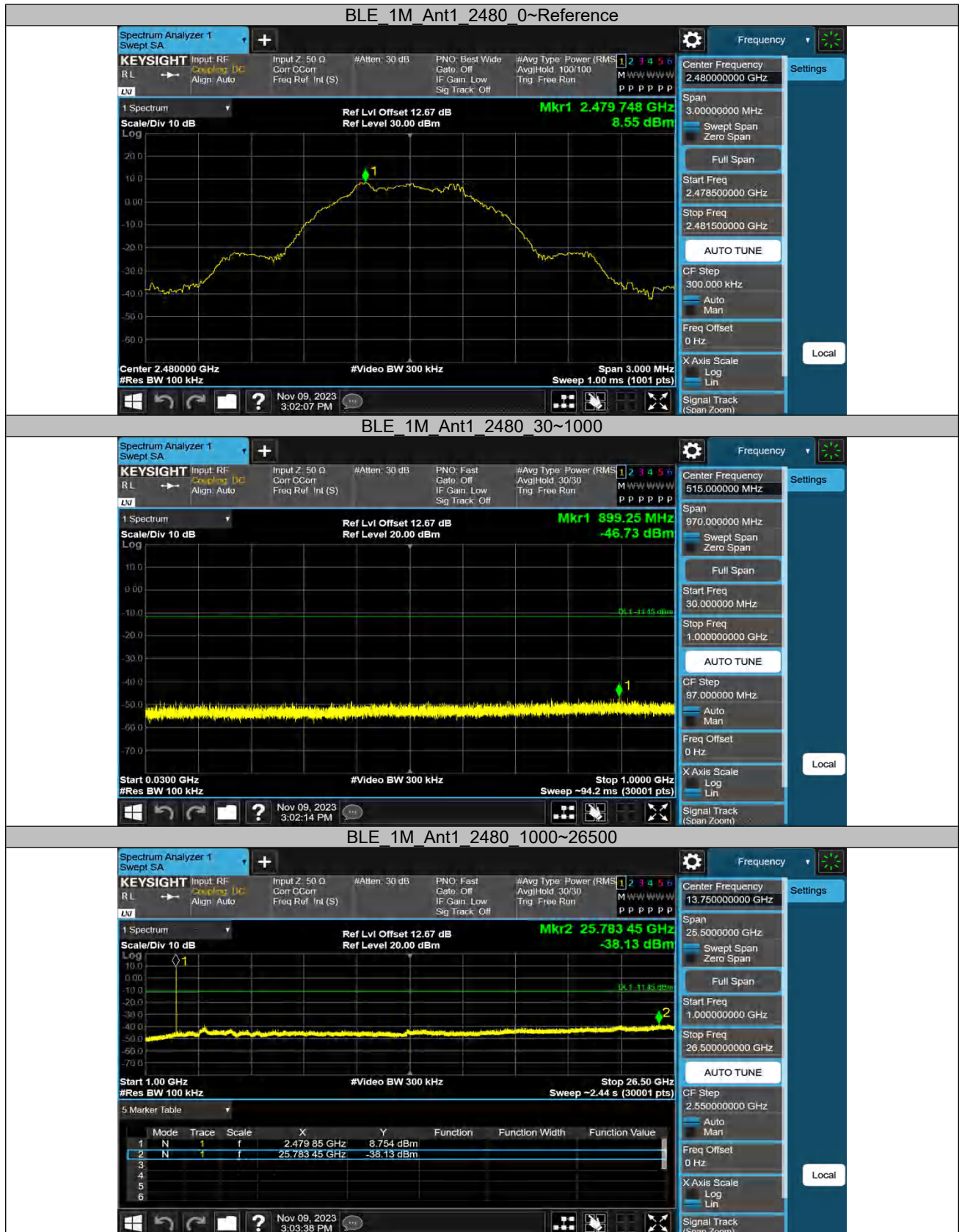
Conducted measurements

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	8.41	8.41	---	PASS
			30~1000	8.41	-46.59	≤-11.59	PASS
			1000~26500	8.41	-38.33	≤-11.59	PASS
		2440	Reference	8.87	8.87	---	PASS
			30~1000	8.87	-46.89	≤-11.13	PASS
			1000~26500	8.87	-38.35	≤-11.13	PASS
		2480	Reference	8.55	8.55	---	PASS
			30~1000	8.55	-46.73	≤-11.45	PASS
			1000~26500	8.55	-38.14	≤-11.45	PASS
BLE_2M	Ant1	2404	Reference	8.53	8.53	---	PASS
			30~1000	8.53	-46.51	≤-11.47	PASS
			1000~26500	8.53	-37.94	≤-11.47	PASS
		2440	Reference	8.41	8.41	---	PASS
			30~1000	8.41	-47.25	≤-11.59	PASS
			1000~26500	8.41	-38.09	≤-11.59	PASS
		2478	Reference	8.51	8.51	---	PASS
			30~1000	8.51	-46.96	≤-11.49	PASS
			1000~26500	8.51	-37.88	≤-11.49	PASS

Test Graphs









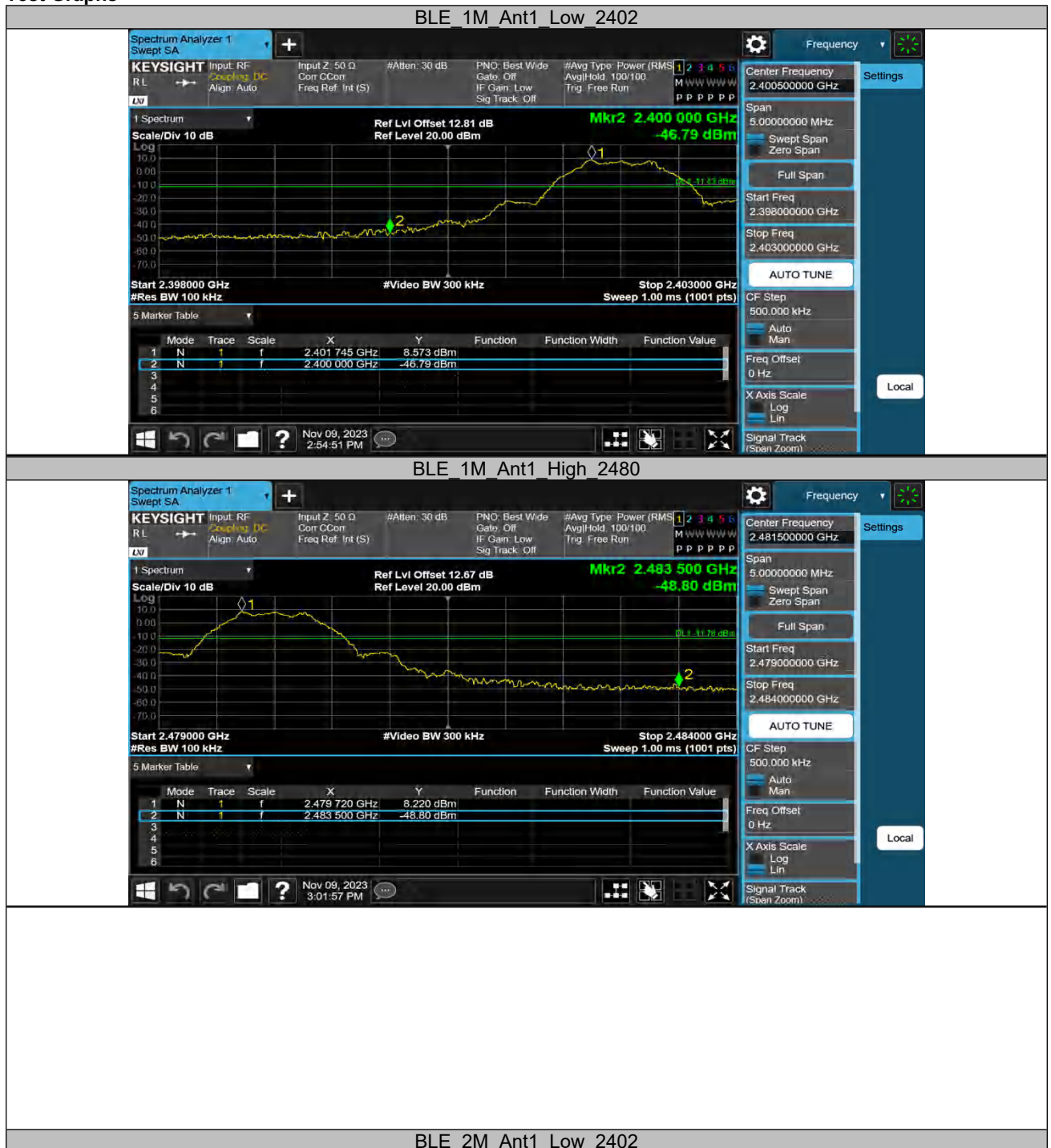




Band edge measurements

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	8.573	-46.79	≤-11.43	PASS
		High	2480	8.22	-48.8	≤-11.78	PASS
BLE_2M	Ant1	Low	2402	7.944	-48.14	≤-12.06	PASS
		High	2480	7.927	-48.84	≤-12.07	PASS

Test Graphs





BLE 2M Ant1 High 2480



Appendix B.6: Test Results of Radiated Spurious Emissions

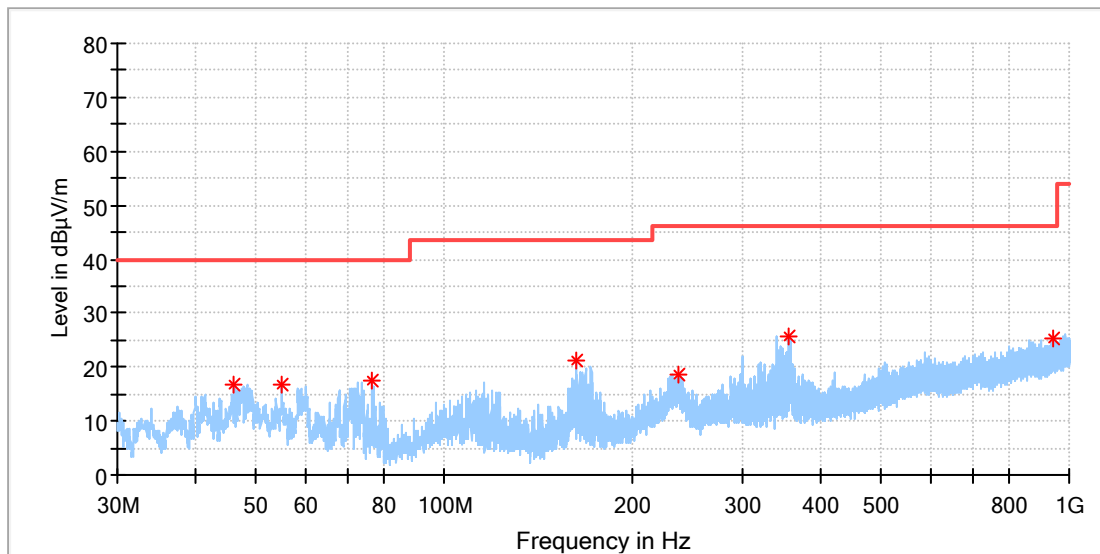
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

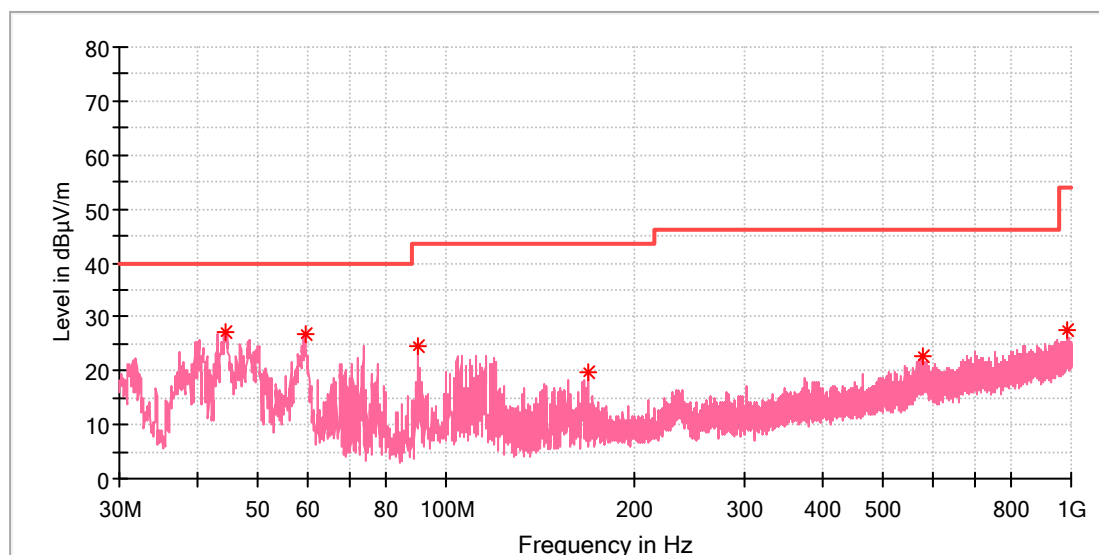


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.191539	16.92	40.00	23.08	100.0	H	0.0	-18.9
54.884231	16.78	40.00	23.22	100.0	H	212.0	-18.7
76.821154	17.53	40.00	22.47	100.0	H	327.0	-23.7
162.367692	21.28	43.50	22.22	100.0	H	284.0	-21.9
237.057692	18.64	46.00	27.36	100.0	H	265.0	-18.1
354.726154	25.66	46.00	20.34	100.0	H	22.0	-15.1
942.770000	25.48	46.00	20.52	100.0	H	104.0	-5.0

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

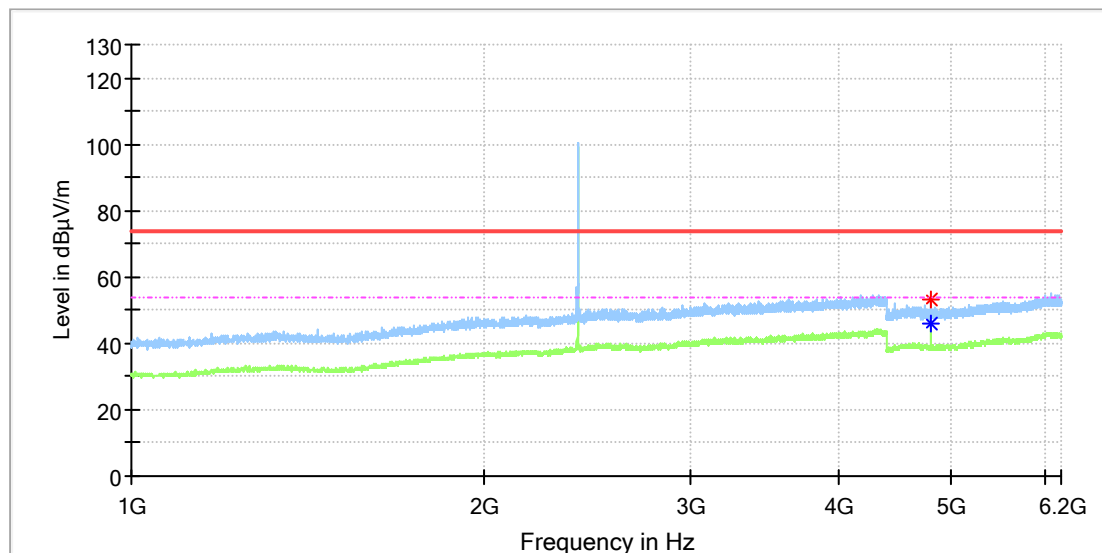
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.512692	27.29	40.00	12.71	100.0	V	103.0	-19.2
59.398462	26.72	40.00	13.28	100.0	V	2.0	-19.2
89.916154	24.41	43.50	19.09	100.0	V	87.0	-21.3
168.710000	19.66	43.50	23.84	100.0	V	354.0	-21.6
580.698846	22.87	46.00	23.13	100.0	V	0.0	-10.6
986.382692	27.35	54.00	26.65	100.0	V	319.0	-4.3

1GHz - 18GHz

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

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

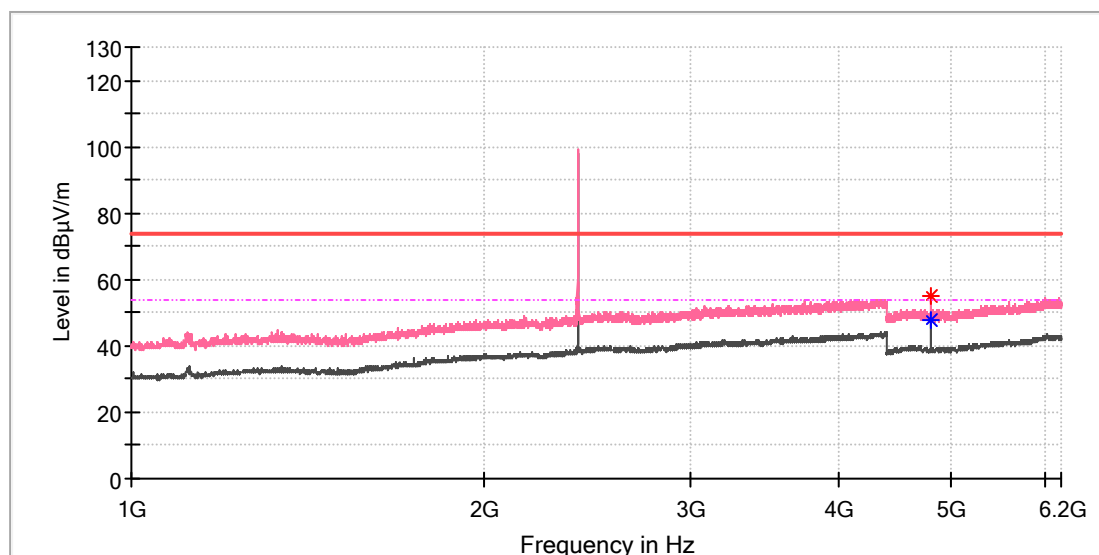


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	46.01	54.00	7.99	150.0	H	132.0	11.8
4804.500000	53.03	---	74.00	20.97	150.0	H	112.0	11.8

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

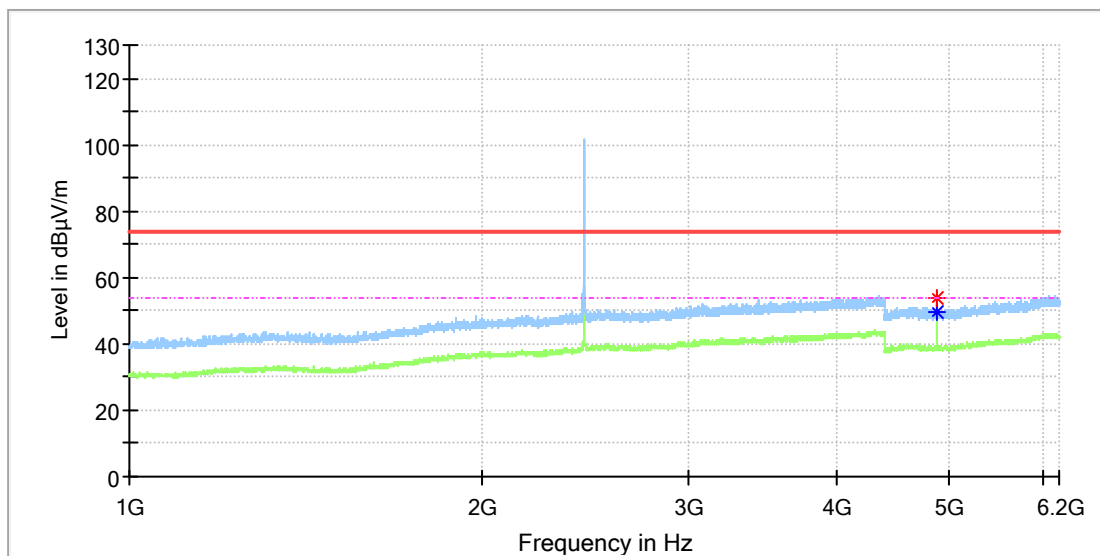


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	47.94	54.00	6.06	150.0	V	20.0	11.8
4804.500000	54.73	---	74.00	19.27	150.0	V	20.0	11.8

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

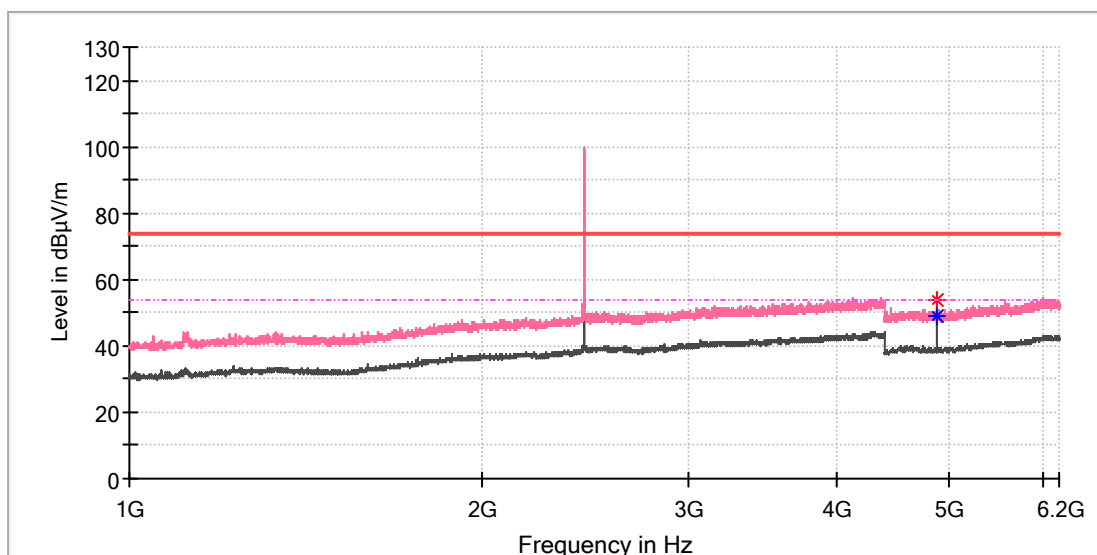


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.500000	53.98	---	74.00	20.02	150.0	H	129.0	11.8
4880.000000	---	49.77	54.00	4.23	150.0	H	129.0	11.8

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

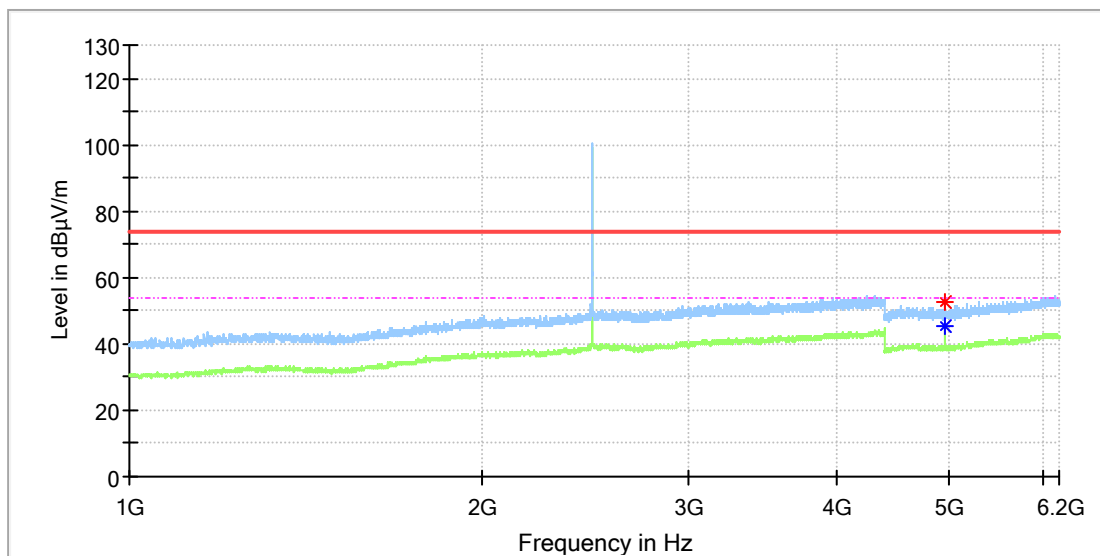


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.500000	53.63	---	74.00	20.37	150.0	V	19.0	11.8
4879.500000	---	48.99	54.00	5.01	150.0	V	19.0	11.8

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

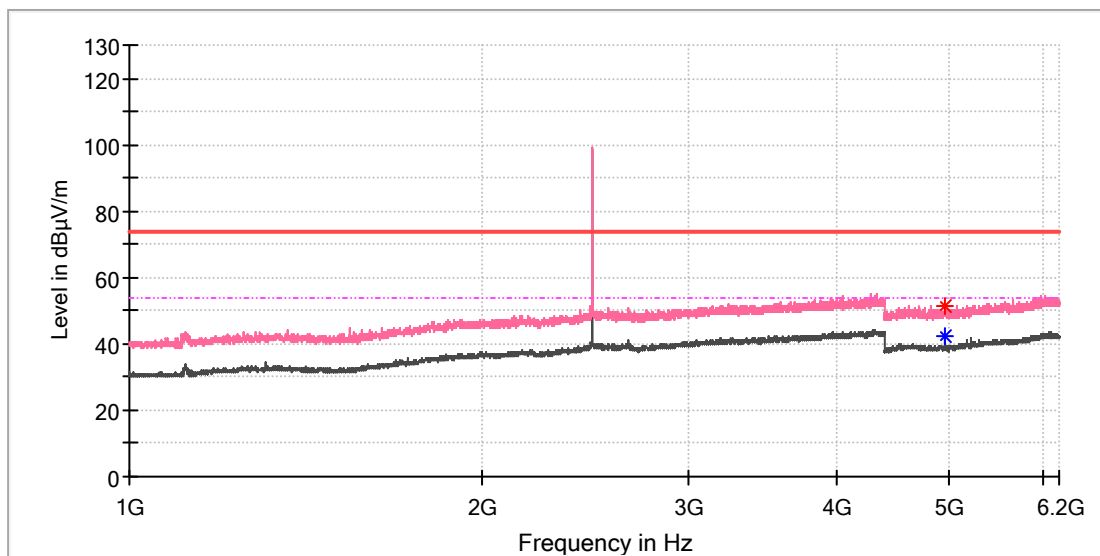


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	---	45.33	54.00	8.67	150.0	H	130.0	11.8
4960.500000	52.54	---	74.00	21.46	150.0	H	124.0	11.8

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

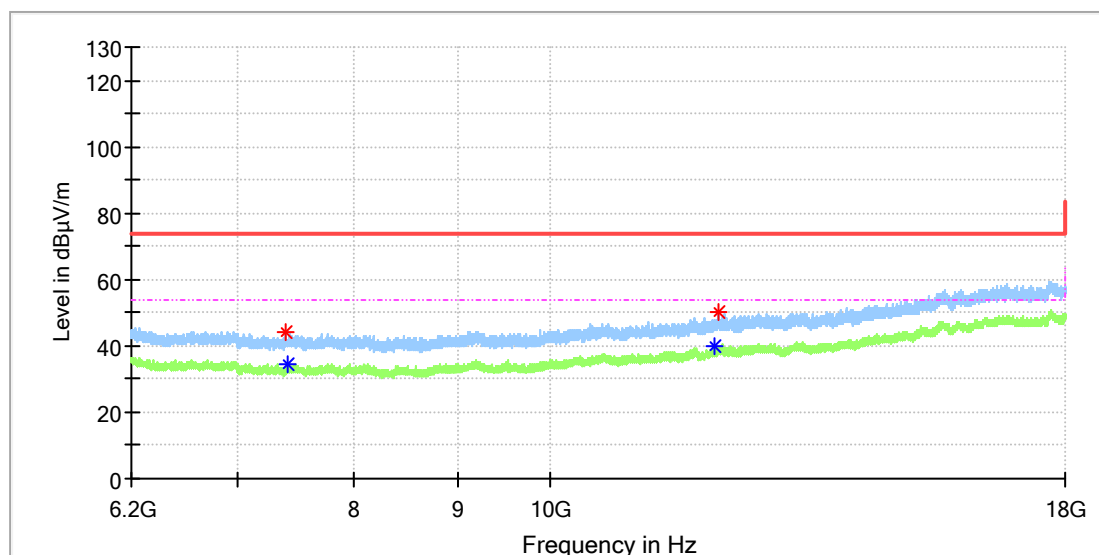


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.000000	51.47	---	74.00	22.53	150.0	V	21.0	11.8
4959.500000	---	42.45	54.00	11.55	150.0	V	14.0	11.8

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

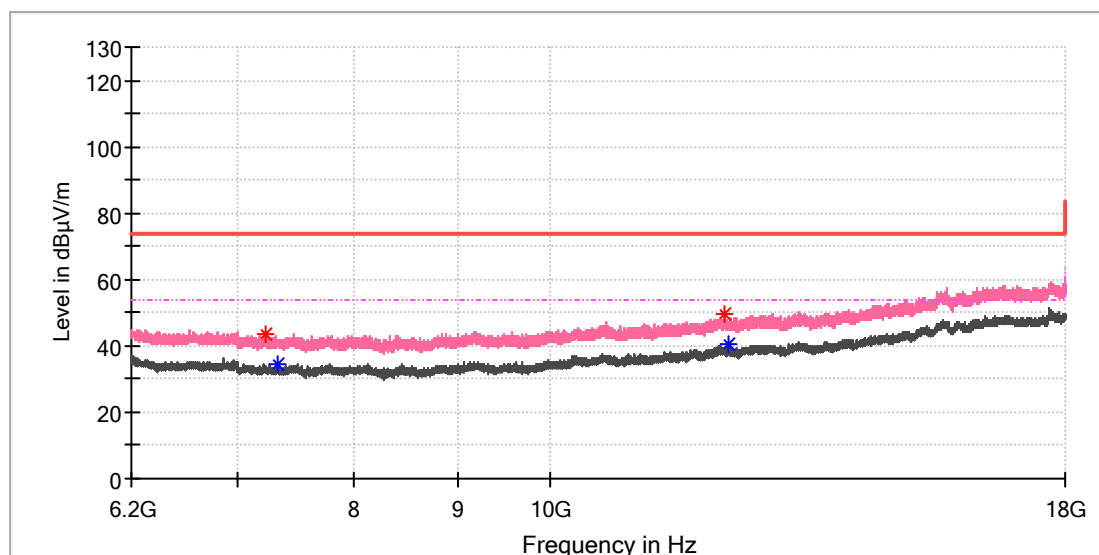


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7401.633333	43.93	---	74.00	30.07	150.0	H	0.0	8.3
7417.366667	---	34.24	54.00	19.76	150.0	H	0.0	8.3
12065.091667	---	39.72	54.00	14.28	150.0	H	125.0	14.0
12123.108333	50.40	---	74.00	23.60	150.0	H	114.0	14.3

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

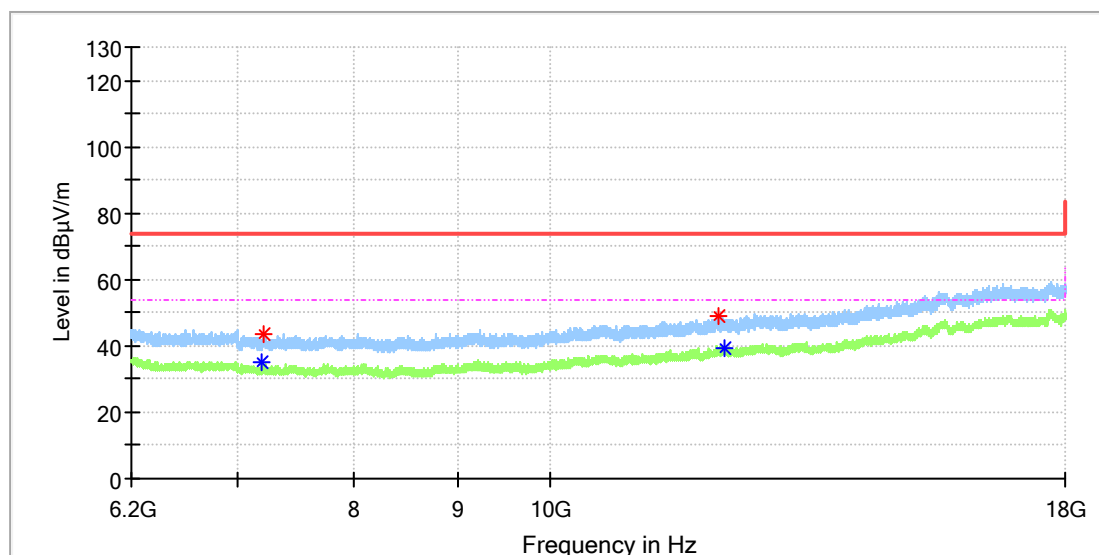


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7231.516667	43.67	---	74.00	30.33	150.0	V	278.0	8.6
7318.541667	---	34.49	54.00	19.51	150.0	V	10.0	8.2
12193.416667	49.42	---	74.00	24.58	150.0	V	45.0	14.6
12253.400000	---	40.56	54.00	13.44	150.0	V	105.0	14.8

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

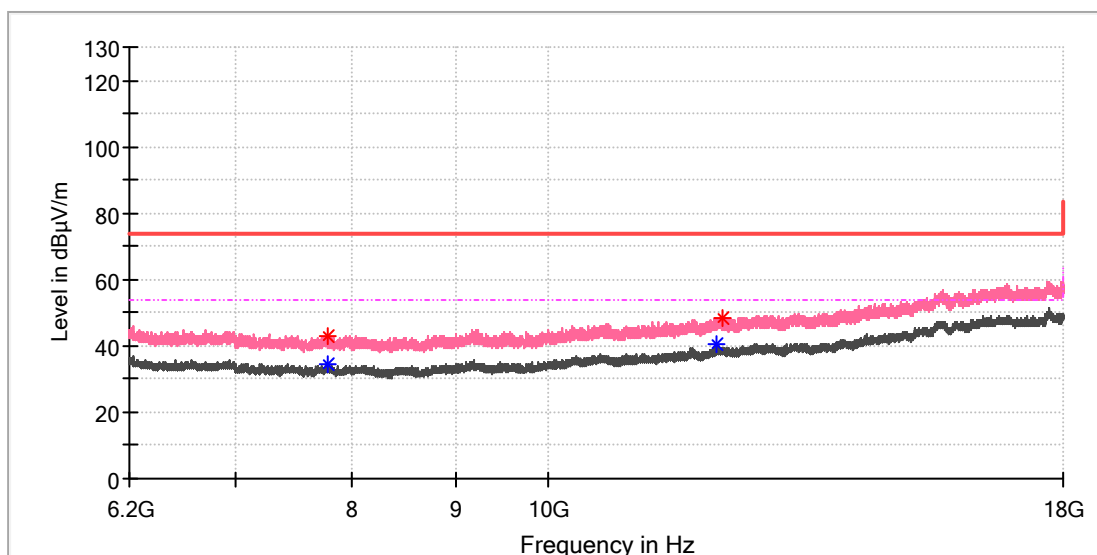


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7200.050000	---	35.02	54.00	18.98	150.0	H	105.0	8.8
7207.425000	43.69	---	74.00	30.31	150.0	H	81.0	8.8
12120.158333	48.75	---	74.00	25.25	150.0	H	93.0	14.3
12199.316667	---	39.43	54.00	14.57	150.0	H	7.0	14.7

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

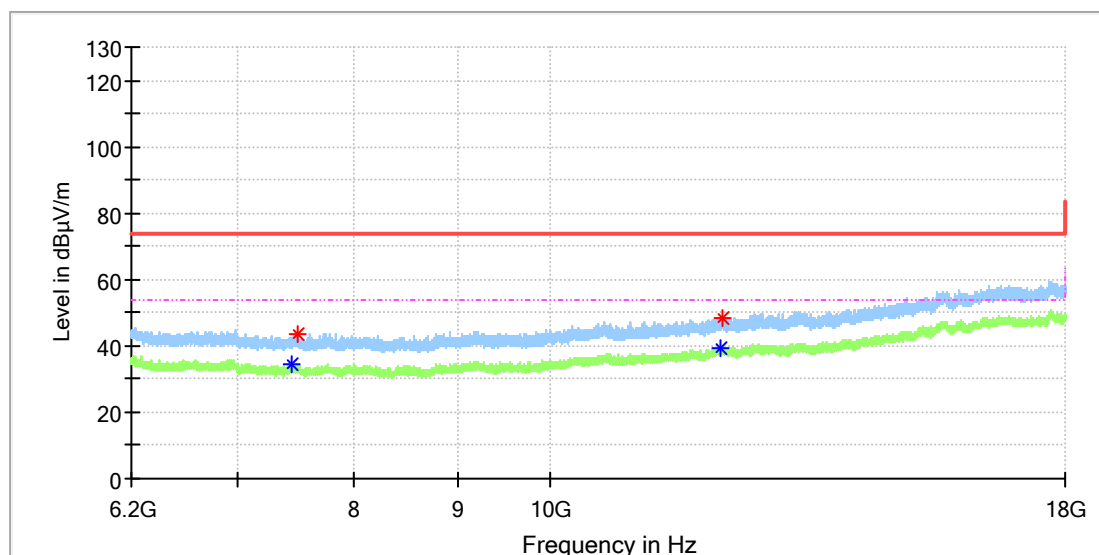


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7770.383333	42.78	---	74.00	31.22	150.0	V	219.0	8.9
7774.808333	---	34.46	54.00	19.54	150.0	V	43.0	8.9
12117.700000	---	40.73	54.00	13.27	150.0	V	0.0	14.2
12194.891667	48.66	---	74.00	25.34	150.0	V	0.0	14.6

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

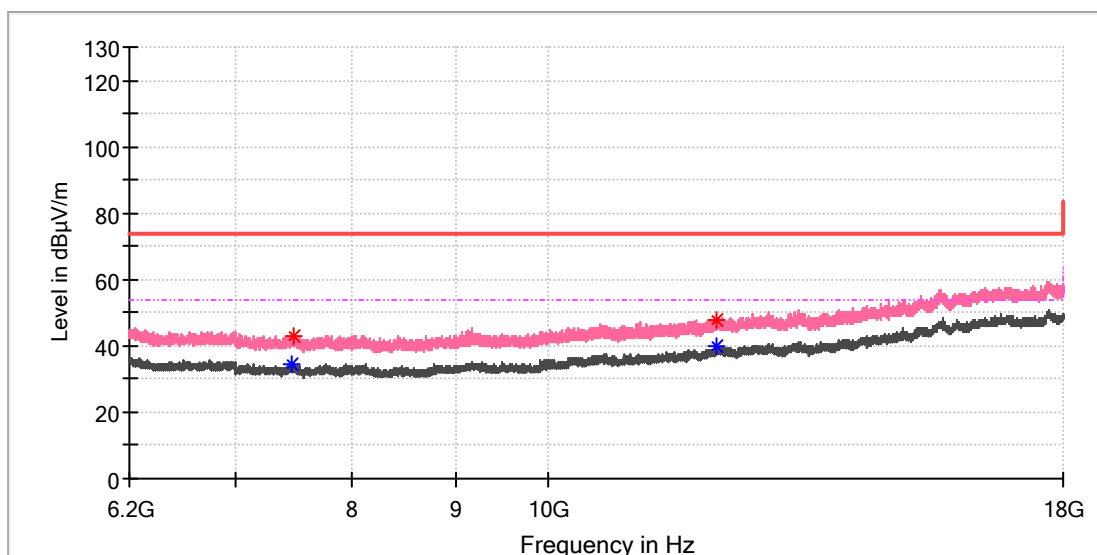


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7440.475000	---	34.21	54.00	19.79	150.0	H	140.0	8.4
7489.641667	43.46	---	74.00	30.54	150.0	H	272.0	8.7
12146.216667	---	39.49	54.00	14.51	150.0	H	102.0	14.4
12176.208333	48.54	---	74.00	25.46	150.0	H	247.0	14.6

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



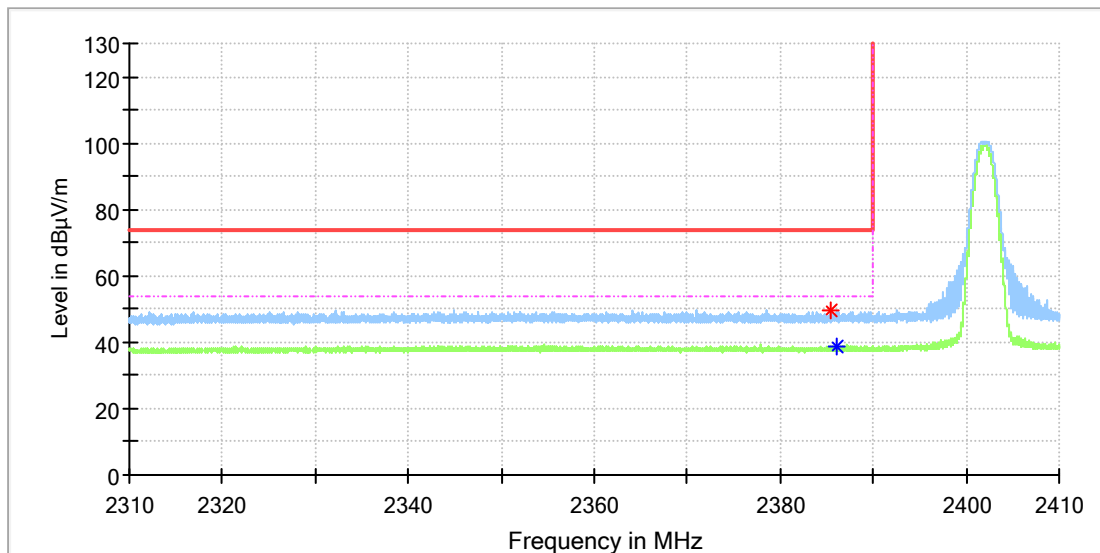
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7458.175000	---	34.60	54.00	19.40	150.0	V	144.0	8.5
7478.825000	42.98	---	74.00	31.02	150.0	V	286.0	8.7
12115.241667	47.99	---	74.00	26.01	150.0	V	235.0	14.2
12124.091667	---	39.71	54.00	14.29	150.0	V	0.0	14.3

Appendix B.7: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Low channel
Order No./Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

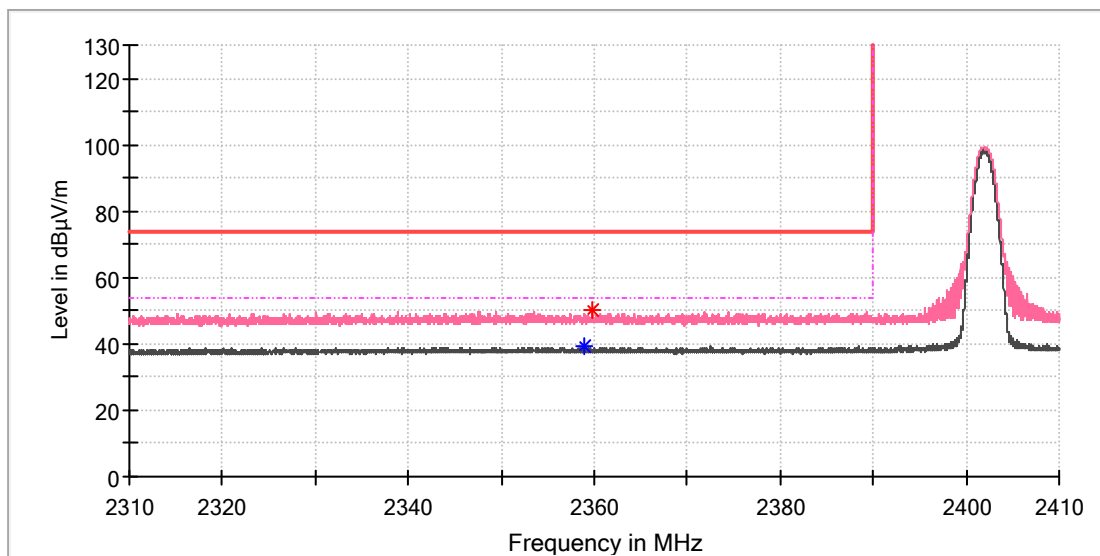


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.441177	49.59	---	74.00	24.41	150.0	H	150.0	7.0
2386.102941	---	38.89	54.00	15.11	150.0	H	261.0	7.0

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

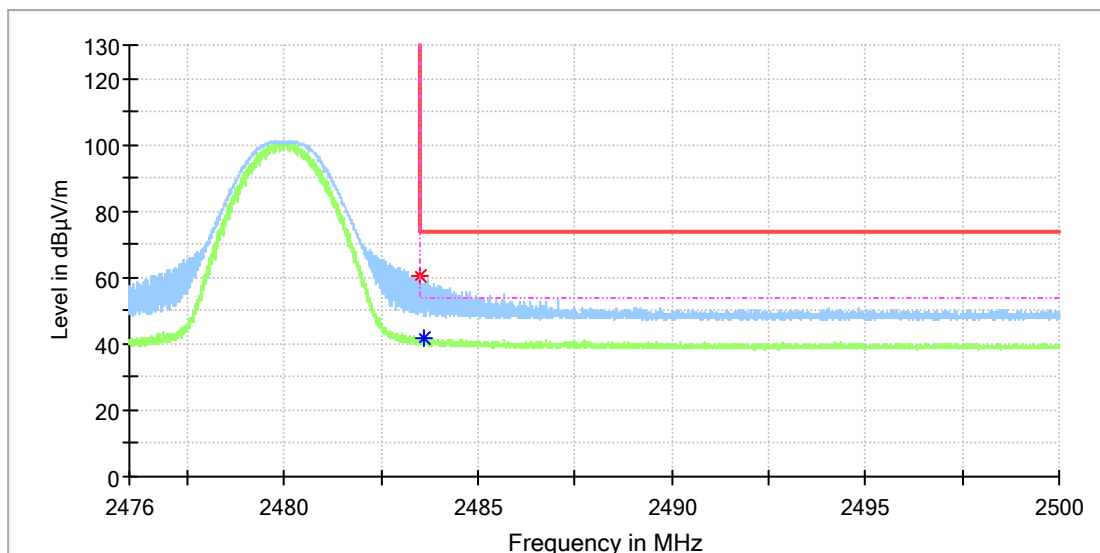


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2359.014706	---	39.00	54.00	15.00	150.0	V	279.0	6.9
2359.720588	50.26	---	74.00	23.74	150.0	V	105.0	6.9

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

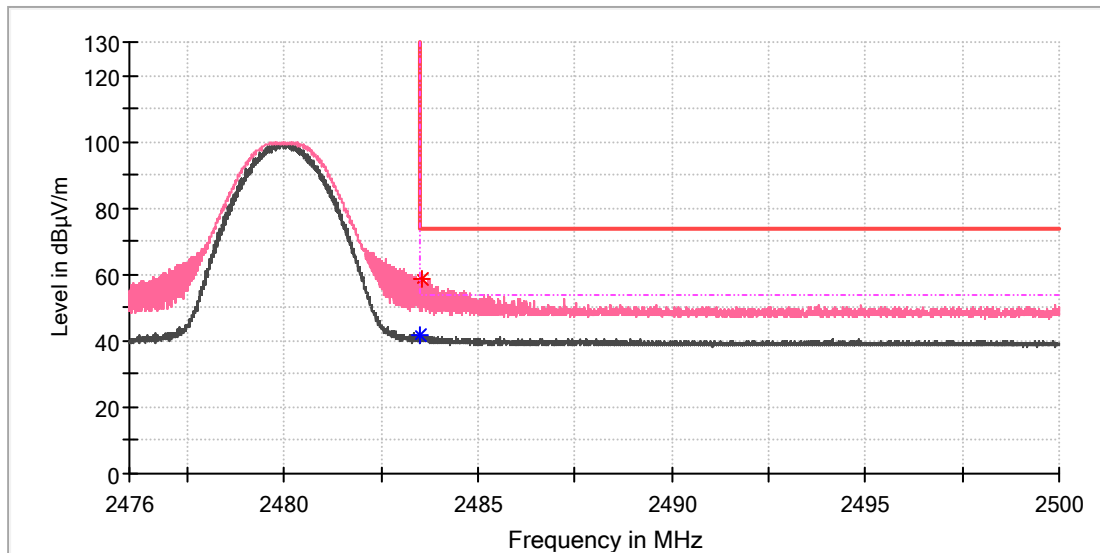


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.503530	60.27	---	74.00	13.73	150.0	H	93.0	7.4
2483.602353	---	41.69	54.00	12.31	150.0	H	331.0	7.4

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

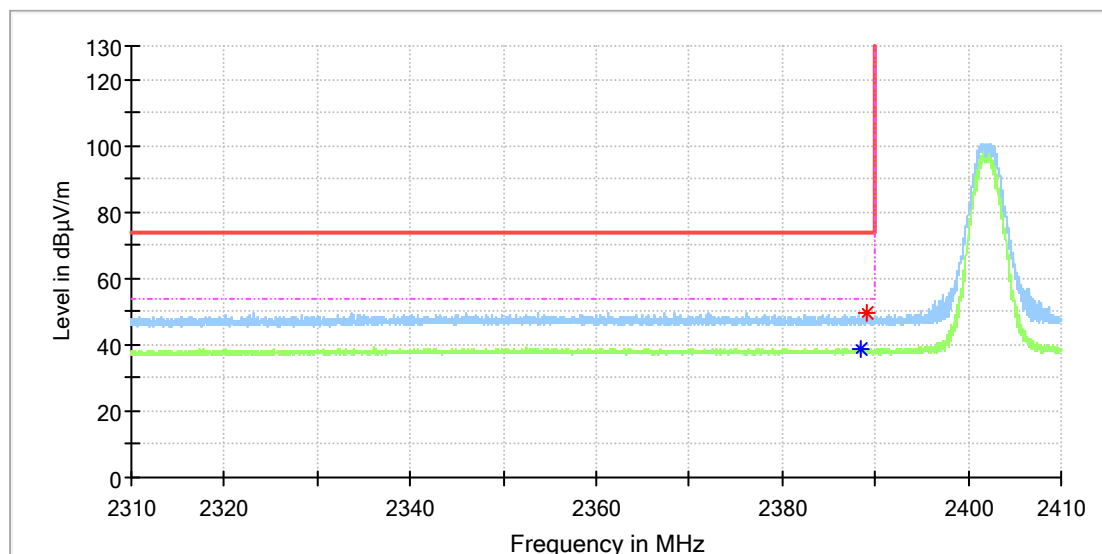


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.507059	---	41.55	54.00	12.45	150.0	V	0.0	7.4
2483.545882	58.89	---	74.00	15.11	150.0	V	2.0	7.4

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

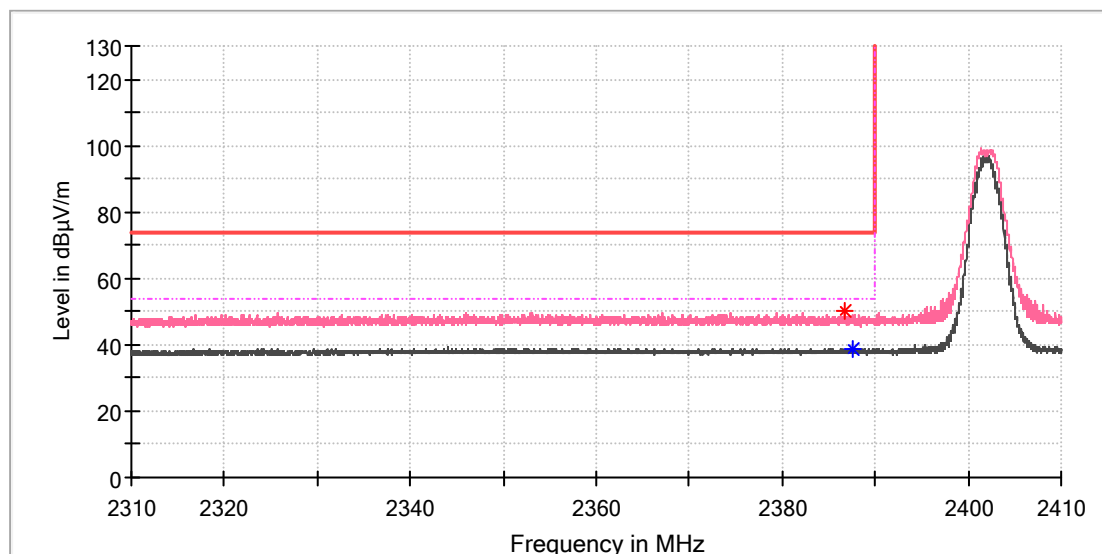


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.441177	---	38.88	54.00	15.12	150.0	H	282.0	7.0
2389.176471	49.82	---	74.00	24.18	150.0	H	155.0	7.0

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 2M_Low channel
Order No./Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

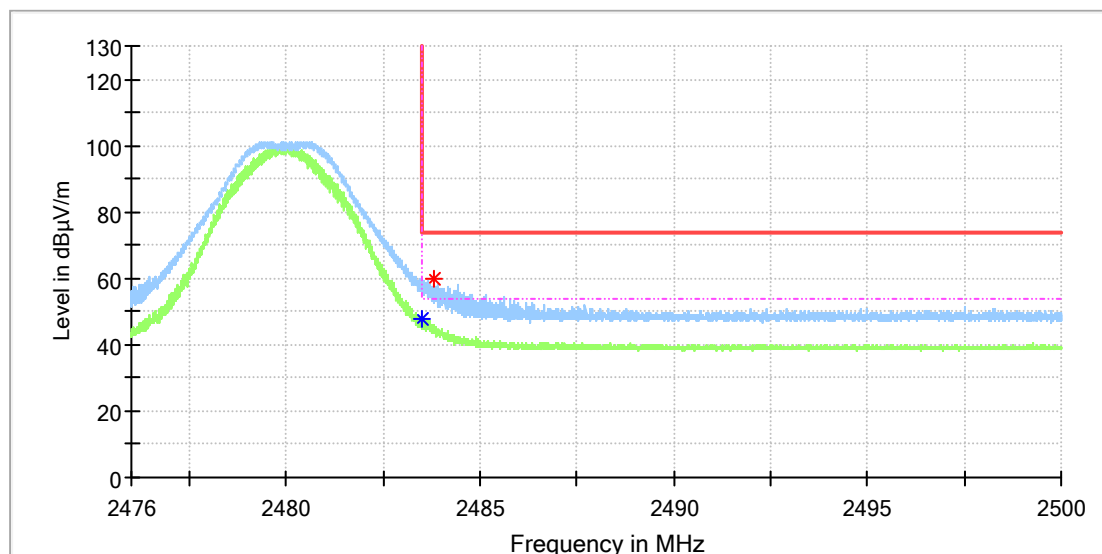


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.794118	50.13	---	74.00	23.87	150.0	V	331.0	7.0
2387.500000	---	38.64	54.00	15.36	150.0	V	30.0	7.0

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

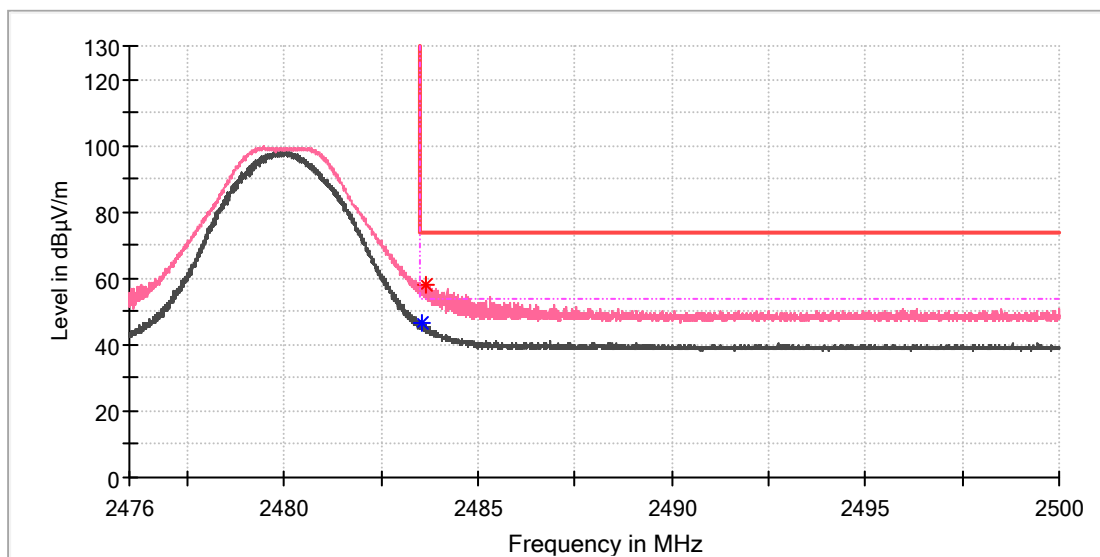


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.514118	---	47.86	54.00	6.14	150.0	H	98.0	7.4
2483.789412	59.64	---	74.00	14.36	150.0	H	98.0	7.4

EUT Information

EUT Name:	Bluetooth Speaker
Model:	PARTYBOX CLUB 120G
Test Mode:	BLE 2M_High channel
Order No./Sample No:	168450029/A003595895
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



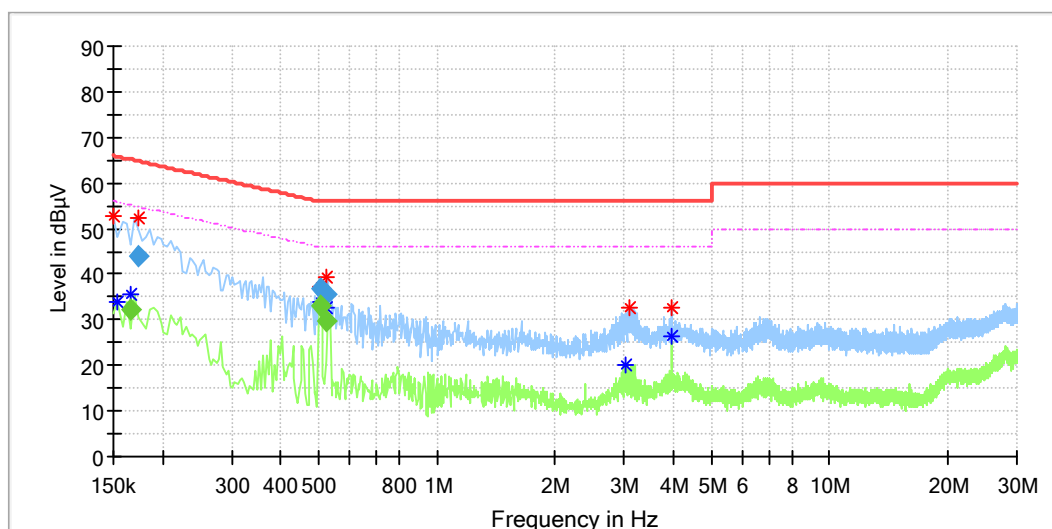
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.560000	---	46.39	54.00	7.61	150.0	V	349.0	7.4
2483.662353	58.34	---	74.00	15.66	150.0	V	11.0	7.4

Appendix B.8: Test Results of Conducted Emissions

EUT Information

EUT Name:	Bluetooth Speaker
Order Number:	168450029
Model:	PARTYBOX CLUB 120G
Test Mode:	Bluetooth Play
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15B
Test By:/Review By:	Soloman Wu/ Gary Chen
Tem./Hum./Pressure:	23.6°C/52.2%/101kPa
Remark:	SR2



Critical Freqs

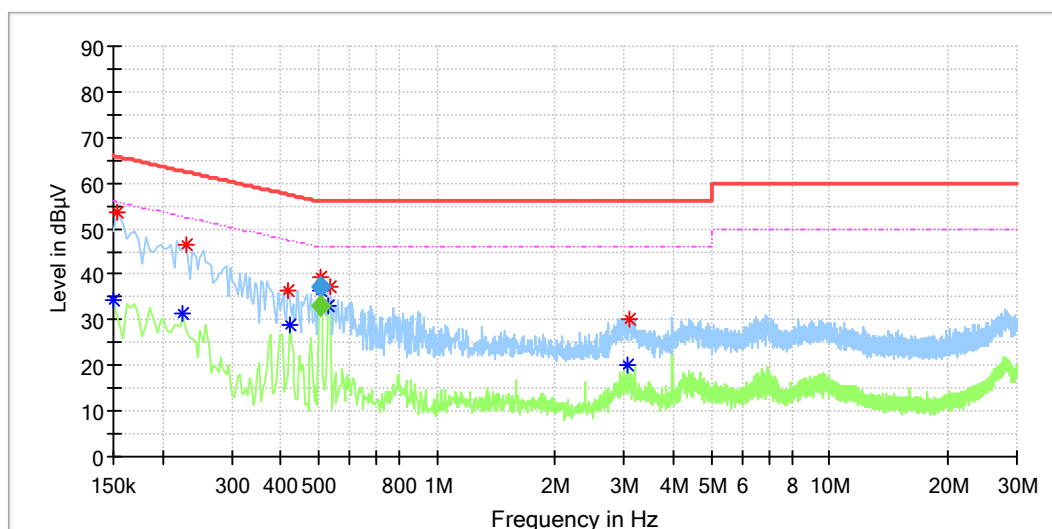
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	52.66	---	66.00	13.34	L1	9.9
0.154000	---	33.91	55.78	21.87	L1	9.9
0.165500	---	35.68	54.96	19.28	L1	9.9
0.174500	52.50	---	64.96	12.46	L1	9.9
0.506500	---	34.06	46.00	11.94	L1	10.0
0.506500	37.11	---	56.00	18.89	L1	10.0
0.525500	---	32.76	46.00	13.24	L1	10.0
0.525500	39.23	---	56.00	16.77	L1	10.0
3.026000	---	19.99	46.00	26.01	L1	10.2
3.086000	32.75	---	56.00	23.25	L1	10.2
3.978000	---	26.25	46.00	19.75	L1	10.2
3.978000	32.85	---	56.00	23.15	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.165500	---	32.37	55.18	22.81	1000.0	9.000	L1	9.9
0.174500	44.13	---	64.74	20.61	1000.0	9.000	L1	9.9
0.506500	---	32.94	46.00	13.06	1000.0	9.000	L1	10.0
0.506500	36.68	---	56.00	19.32	1000.0	9.000	L1	10.0
0.525500	---	29.84	46.00	16.16	1000.0	9.000	L1	10.0
0.525500	35.46	---	56.00	20.54	1000.0	9.000	L1	10.0

EUT Information

EUT Name:	Bluetooth Speaker
Order Number:	168450029
Model:	PARTYBOX CLUB 120G
Test Mode:	Bluetooth Play
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15B
Test By:/Review By:	Soloman Wu/ Gary Chen
Tem./Hum./Pressure:	23.6°C/52.2%/101kPa
Remark:	SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	34.34	56.00	21.66	N	9.8
0.154000	53.53	---	65.78	12.25	N	9.8
0.226000	---	31.34	52.60	21.25	N	9.8
0.230000	46.43	---	62.45	16.02	N	9.8
0.418000	36.27	---	57.49	21.22	N	9.8
0.422000	---	28.69	47.41	18.72	N	9.8
0.505500	39.22	---	56.00	16.78	N	9.8
0.505500	---	36.37	46.00	9.63	N	9.8
0.530000	---	33.13	46.00	12.87	N	9.8
0.534000	37.32	---	56.00	18.68	N	9.8
3.042000	---	20.23	46.00	25.77	N	9.9
3.082000	30.25	---	56.00	25.75	N	9.9

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.505500	---	33.26	46.00	12.74	1000.0	9.000	N	9.8
0.505500	37.34	---	56.00	18.66	1000.0	9.000	N	9.8