Prüfbericht-Nr.: *Test report no.*:	**CN26TBZ9 002**	**Auftrags-Nr.:** *Order no.*:	27234703	Seite 1 von 28 *Page 1 of 28*
Kunden-Referenz-Nr.: *Client reference no.*:	N/A	**Auftragsdatum:** *Order date:*	2026-05-14	
Auftraggeber: *Client*:	SHENZHEN FENDA TECHNOLOGY CO.,LTD Fenda Hi-Tech Park, Zhoushi Road, Shiyan Town, Baoan District, Shenzhen City, Guangdong, China			
Prüfgegenstand: *Test item*:	Medium Portable Bluetooth Speaker			
Bezeichnung / Typ-Nr.: *Identification / Type no.*:	NS-BTSTM			
Auftrags-Inhalt: *Order content*:	Test Report			
Prüfgrundlage: *Test specification*:	CFR Title 47 FCC Part 15, Subpart C, Section 15.247			

Wareneingangsdatum: *Date of sample receipt*:	2026-05-20	Please refer to Photo Document
Prüfmuster-Nr.: *Test sample no:*	A004278026-001~003	
Prüfzeitraum: *Testing period*:	2026-05-25 - 2026-06-11	
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 Jonathan Li Signed by: Jonathan Li	**genehmigt von:** *authorized by*:	x Bell Hu Signed by: Bell Hu
Datum: *Date:* 2026-06-17		**Ausstellungsdatum:** *Issue date:* 2026-06-17	
Stellung / Position:	Sachverständige(r)/Expert	**Stellung** / Position:	Sachverständige(r)/Expert

Sonstiges / *Other*: FCC ID: HBOWT2627

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *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*

Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. *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.*
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3	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. *Test clauses with remark of * are subcontracted to qualified subcontractors and descripted 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.*
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnisen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, 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 bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. *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 115:2023, 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.*

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 6DB BANDWIDTH
RESULT: Pass

5.1.5 99% BANDWIDTH
RESULT: Pass

5.1.6 20DB BANDWIDTH
RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION
RESULT: Pass

5.1.8 NUMBER OF HOPPING FREQUENCY
RESULT: Pass

5.1.9 TIME OF OCCUPANCY
RESULT: Pass

5.1.10 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH
RESULT: Pass

5.1.11 RADIATED SPURIOUS EMISSION
RESULT: Pass

5.1.12 CONDUCTED EMISSION ON AC MAINS
RESULT: Pass

Contents

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: Test Results of Bluetooth BR & EDR

Appendix B: Test Results of Bluetooth LE

Appendix C: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.
2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China
FCC Accreditation Designation No.: 694916

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend 1)					
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Cal. until**
Wireless Connectivity Tester	R&S	CMW270	102505	2025-09-23	2026-09-22
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2025-09-23	2026-09-22
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2025-09-23	2026-09-22
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2025-09-23	2026-09-22
DC power supply	Keysight	E3642A	MY61276100	2025-09-23	2026-09-22
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2025-09-23	2026-09-22
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2025-09-23	2026-09-22
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Cal. until**
EMI Test Receiver	R&S	ESR 7	102021	2025-09-22	2026-09-21
Signal Analyzer	R&S	FSV 40	101439	2025-09-22	2026-09-21
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2025-09-22	2026-09-21
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2025-09-22	2026-09-21
Amplifier	R&S	SCU-18F	180070	2025-09-22	2026-09-21
Amplifier	R&S	SCU40A	100475	2025-09-22	2026-09-21
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2026-09-27

Double-Ridged Antenna (1-18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2026-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2026-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2026-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

Conducted Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
EMI Test Receiver	R&S	ESR3	102680	2027-02-03
Artificial Mains Network	R&S	ENV216	102333	2026-07-18
Artificial Mains Network	R&S	ENV216	101445	2027-02-03
EMC32 Test Software	R&S	EMC32(Ver.10.60.20)	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 basics 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.

Table 2: Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.24 dB / ± 3.24 dB

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is a Medium Portable Bluetooth Speaker which supports Bluetooth wireless technology.

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

3.2 Ratings and System Details

Table 3: General Information of EUT

General Information of EUT	Value
Kind of Equipment:	Medium Portable Bluetooth Speaker
Type Designation:	NS-BTSTM
FCC ID:	HBOWT2627
Operating Voltage:	Internal battery operated (3.7Vdc, 2600mAh) or USB-C operated (5Vdc, 2A)
Testing Voltage:	Fully charged battery or AC 120V/60Hz
Technical Specification of Bluetooth (dual mode)	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK, π/4-DQPSK, 8DPSK
Channel Number:	BR & EDR mode:79 channels, Low Energy mode:40 channels
Channel Separation:	BR & EDR mode:1MHz, Low Energy mode:2MHz
Data Rate:	BR & EDR mode: 1Mbps, 2Mbps, 3Mbps Low Energy mode: 1Mbps, 2Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	1.83 dBi (Provided by the Client)

Note: The correctness of all data provided by customers in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused using incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of Bluetooth BR & EDR

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	**2402.00**	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	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		

Test frequencies are lowest channel: 2402 MHz, middle channel: 2441 MHz and highest channel: 2480 MHz for Bluetooth BR & EDR

Table 5: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	**2402**	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	**19**	**2440**	29	2460	**39**	**2480**

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Bluetooth transmitting mode (BR & EDR mode)
    1) Low Channel
    2) Middle Channel
    3) High Channel

B. On, Bluetooth transmitting mode (Bluetooth LE mode)
    1) Low Channel
    2) Middle Channel
    3) High Channel

C. On, Transmitting on Hopping channel

D. On, Normal working + Charging

E. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Operation Description
- User Manual
- ID Label and Location Info

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 tests were performed according to the procedures in ANSI C63.10:2020.

According to clause 3.1, all tests were performed on model *NS-BTSTM* in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Remark
Laptop	Lenovo	ThinkPad T14	/
Mobile phone	/	/	/
Adapter	MI	MDY-14-EU	Output: DC 5V, 3A

4.4 Countermeasures to Achieve EMC Compliance

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

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

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

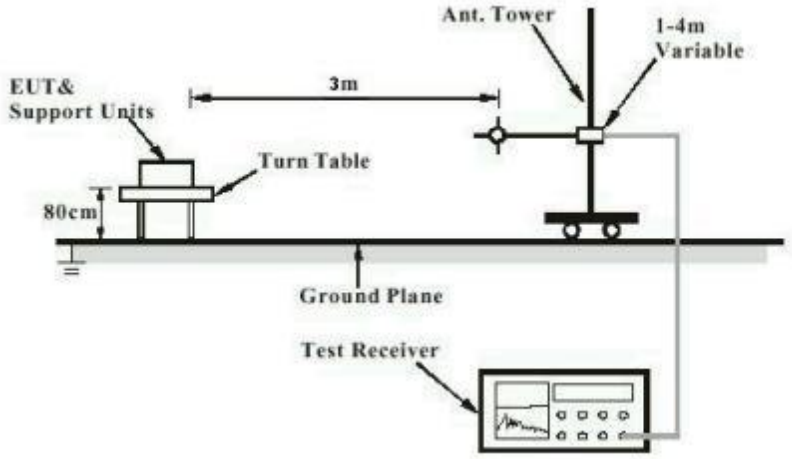


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

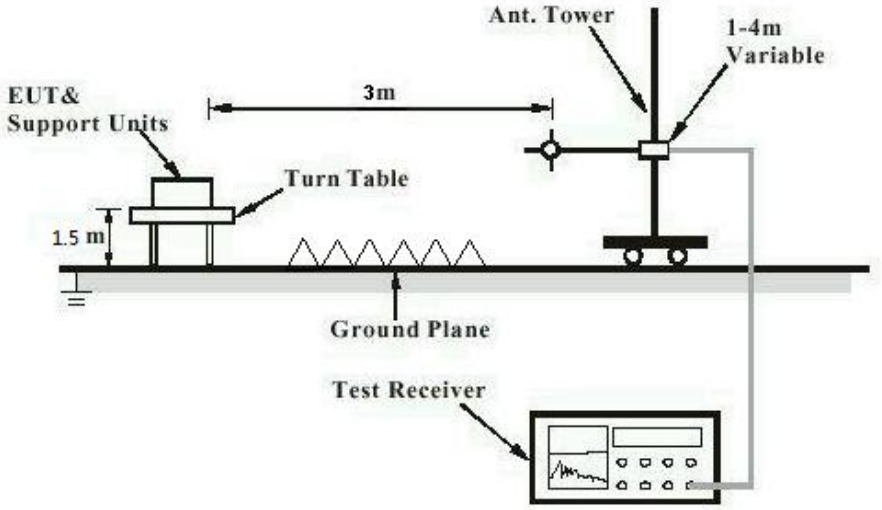


Diagram of Measurement Configuration for Mains Conduction Measurement

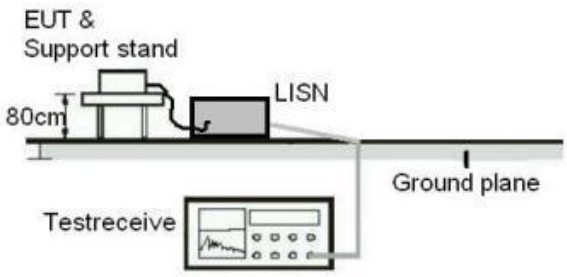
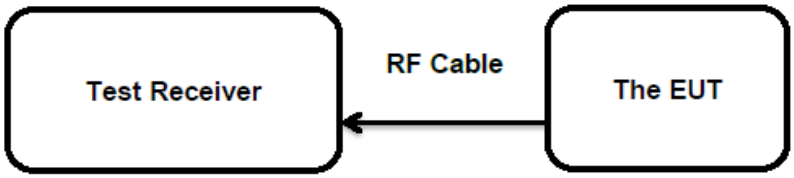


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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

According to the manufacturer declared, the EUT has PCB Antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(b)(1)&(3)
Basic standard	:	ANSI C63.10:2020
Limits	:	FHSS < 0.125 Watts, DSSS < 1.0 Watts
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2026-06-10 to 2026-06-11
Input voltage	:	Fully charged battery
Operation mode	:	A, B
Test channel	:	Low / Middle / High
Ambient temperature	:	24.8 ℃
Relative humidity	:	45 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 7: Test Result of Maximum Conducted Output Power, BR & EDR

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
GFSK (BR)	2402.0	8.78	0.008	< 0.125
	2441.0	8.27	0.007	
	2480.0	8.45	0.007	
8DPSK (EDR)	2402.0	8.81	0.008	
	2441.0	8.30	0.007	
	2480.0	8.61	0.007	
Maximum Measured Value		8.81	0.008	

Table 8: Test Result of Maximum Conducted Output Power, Bluetooth LE

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
Bluetooth LE (1 Mbps)	2402	8.72	0.007	< 1.0
	2440	8.34	0.007	
	2480	8.43	0.007	
Bluetooth LE (2 Mbps)	2402	8.43	0.007	
	2440	8.04	0.006	
	2480	8.21	0.007	
Max. Measured Value		8.72	0.007	

Note:
1) The cable loss is taken into account in results.
2) Antenna gain(G): 1.83dBi

5.1.3 Conducted Power Spectral Density

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(e)
Basic standard	:	ANSI C63.10:2020
Limits	:	< 8 dBm / 3kHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2026-06-10 to 2026-06-11
Input voltage	:	Fully charged battery
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	24.8 ℃
Relative humidity	:	45 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.4 6dB Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(2)
Basic standard	:	ANSI C63.10:2020
Limits	:	> 500 kHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2026-06-10 to 2026-06-11
Input voltage	:	Fully charged battery
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	24.8 ℃
Relative humidity	:	45 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.5 99% Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)
Basic standard	:	ANSI C63.10:2020
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2026-06-10 to 2026-06-11
Input voltage	:	Fully charged battery
Operation mode	:	A, B
Test channel	:	Low / Middle / High
Ambient temperature	:	24.8 ℃
Relative humidity	:	45 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A, B.

5.1.6 20dB Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
Basic standard	:	ANSI C63.10:2020
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2026-06-10 to 2026-06-11
Input voltage	:	Fully charged battery
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.8 ℃
Relative humidity	:	45 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

5.1.7 Carrier Frequency Separation

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
Basic standard	:	ANSI C63.10:2020
Limits	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2026-06-10 to 2026-06-11
Input voltage	:	Fully charged battery
Operation mode	:	C
Ambient temperature	:	24.8 ℃
Relative humidity	:	45 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

5.1.8 Number of Hopping Frequency

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.10:2020
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2026-06-10 to 2026-06-11
Input voltage	:	Fully charged battery
Operation mode	:	C
Ambient temperature	:	24.8 ℃
Relative humidity	:	45 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

5.1.9 Time of Occupancy

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.10:2020
Limits	:	< 0.4s
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2026-06-10 to 2026-06-11
Input voltage	:	Fully charged battery
Operation mode	:	C
Ambient temperature	:	24.8 ℃
Relative humidity	:	45 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

5.1.10 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d)
Basic standard	:	ANSI C63.10:2020
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	:	2026-06-10 to 2026-06-11
Input voltage	:	Fully charged battery
Operation mode	:	A, B, C
Test channel	:	Low / Middle / High
Ambient temperature	:	24.8 ℃
Relative humidity	:	45 %
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 A, B.

5.1.11 Radiated Spurious Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205
Basic standard	:	ANSI C63.10:2020
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2026-05-31 to 2026-06-03
Input voltage	:	Fully charged battery
Operation mode	:	A, B
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 A, B.

5.1.12 Conducted Emission on AC Mains

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.207(a)
Basic standard	:	ANSI C63.10:2020
Frequency range	:	0.15 – 30MHz
Classification	:	Class B
Limits	:	FCC Part 15.207(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2026-05-25
Input voltage	:	AC 120V, 60Hz
Operation mode	:	D
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

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

7 List of Tables

Appendix A: Test Results of Bluetooth BR & EDR

Appendix A.1: Test Results of 20dB Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.538	2402.486	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.891	2479.538	2480.429	---	PASS
3DH5	Ant1	2402	1.242	2401.367	2402.609	---	PASS
		2441	1.239	2440.370	2441.609	---	PASS
		2480	1.224	2479.373	2480.597	---	PASS

Test Graphs

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441

3DH5_Ant1_2480


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Frequency
Center Frequency
2.480000000 GHz
Settings
Span
3.00000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
2.478500000 GHz
Stop Freq
2.481500000 GHz
AUTO TUNE
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Local
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 18.16 dB
Ref Level 30.00 dBm
ΔMkr3 1.224 MHz
0.13 dB
Center 2.480000 GHz
#Res BW 20 kHz
#Video BW 62 kHz
Span 3.000 MHz
Sweep 7.20 ms (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.479 373 GHz -11.93 dBm
2 N 1 f 2.479 835 GHz 8.302 dBm
3 Δ1 1 f (Δ) 1.224 MHz (Δ) 0.1336 dB
Jun 11, 2026
10:17:37 AM

Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89115	2401.5567	2402.4479	---	PASS
		2441	0.87870	2440.5607	2441.4394	---	PASS
		2480	0.88157	2479.5592	2480.4408	---	PASS
3DH5	Ant1	2402	1.1602	2401.4180	2402.5782	---	PASS
		2441	1.1596	2440.4193	2441.5789	---	PASS
		2480	1.1679	2479.4130	2480.5809	---	PASS

Test Graphs

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441

3DH5_Ant1_2480


Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Input: RF
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 40 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 2.480000000 GHz
Avg|Hold: 100/100
Radio Std: None
Frequency
Center Frequency
2.480000000 GHz
Settings
Span
3.0000 MHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
1 Graph
Scale/Div 10.0 dB
Ref Lvl Offset 18.16 dB
Ref Value 30.00 dBm
Mkr1 2.479835000 GHz
8.38 dBm
Center 2.480000 GHz
#Res BW 20.000 kHz
#Video BW 62.000 kHz
Span 3 MHz
Sweep 7.20 ms (1001 pts)
2 Metrics
Occupied Bandwidth
1.1679 MHz
Total Power
15.9 dBm
Transmit Freq Error
-3.042 kHz
% of OBW Power
99.00 %
x dB Bandwidth
1.331 MHz
x dB
-26.00 dB
Local
Jun 11, 2026
10:17:45 AM

Appendix A.3: Test Results of Carrier Frequency Separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥0.948	PASS
3DH5	Ant1	Hop	1.134	≥0.828	PASS

Test Graphs

DH5_Ant1_Hop

3DH5_Ant1_Hop

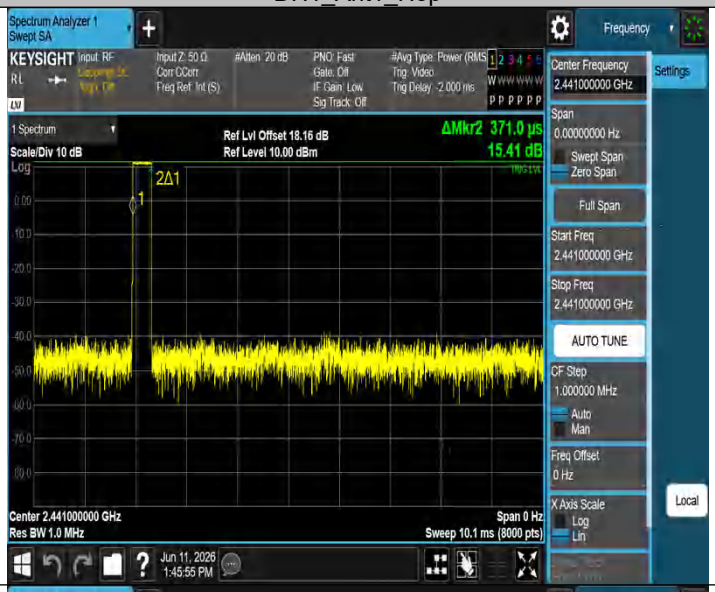
Appendix A.4: Test Results of Time of Occupancy

Test Result

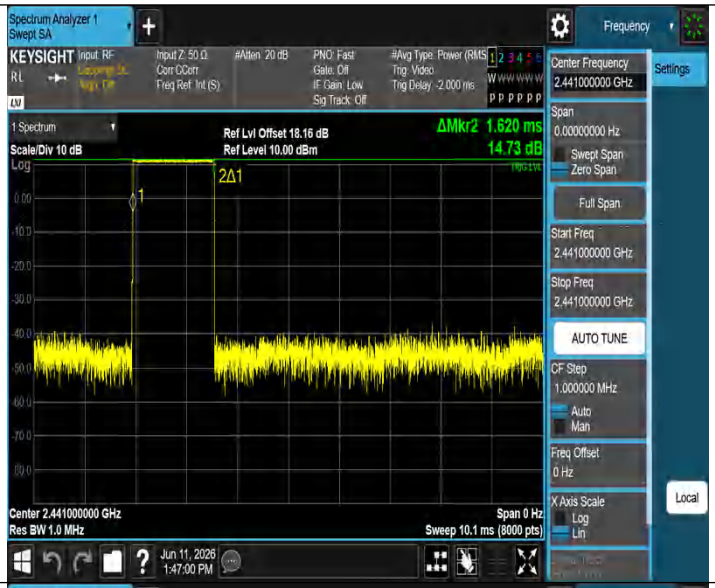
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.371	319	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.620	159	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.868	107	0.307	≤0.4	PASS
3DH1	Ant1	Hop	0.379	319	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.629	159	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.879	107	0.308	≤0.4	PASS

Test Graphs

DH1_Ant1_Hop

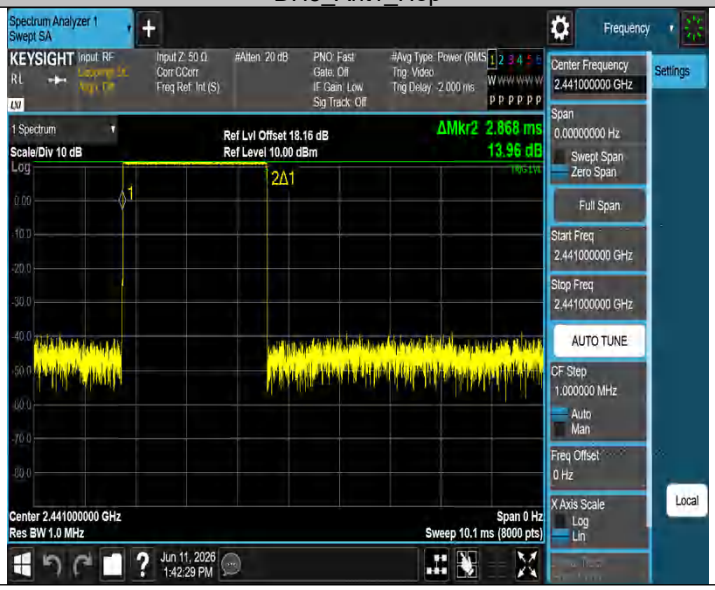


DH3_Ant1_Hop

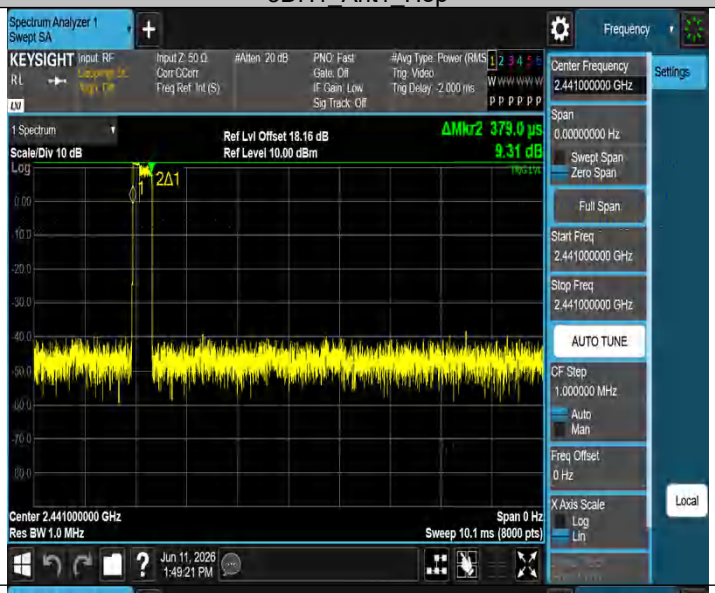

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Frequency
Center Frequency
2.441000000 GHz
Settings
1 Spectrum
Ref Lvl Offset 18.16 dB
Ref Level 10.00 dBm
ΔMkr2 1.620 ms
14.73 dB
Scale/Div 10 dB
Log
2Δ1
1
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
AUTO TUNE
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Local
Center 2.441000000 GHz
Res BW 1.0 MHz
Span 0 Hz
Sweep 10.1 ms (8000 pts)
Jun 11, 2026
1:47:00 PM


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Frequency
Center Frequency
2.441000000 GHz
Settings
1 Spectrum
Ref Lvl Offset 18.16 dB
Ref Level 10.00 dBm
Scale/Div 10 dB
Log
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
AUTO TUNE
CF Step
510.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Local
Center 2.441000000 GHz
Res BW 510 kHz
Span 0 Hz
Sweep 31.6 s (30000 pts)
Jun 11, 2026
1:47:43 PM

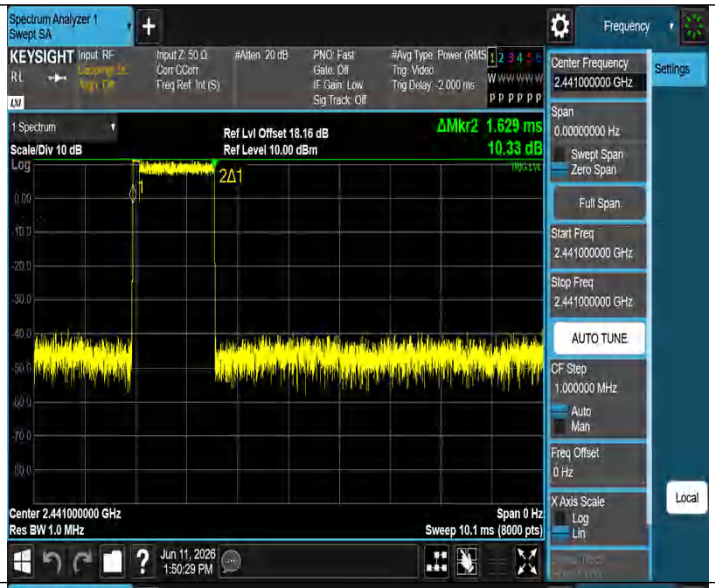
DH5_Ant1_Hop


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Frequency
Center Frequency
2.441000000 GHz
Settings
1 Spectrum
Ref Lvl Offset 18.16 dB
Ref Level 10.00 dBm
ΔMkr2 2.868 ms
13.96 dB
Scale/Div 10 dB
Log
2Δ1
1
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
AUTO TUNE
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Local
Center 2.441000000 GHz
Res BW 1.0 MHz
Span 0 Hz
Sweep 10.1 ms (8000 pts)
Jun 11, 2026
1:42:29 PM

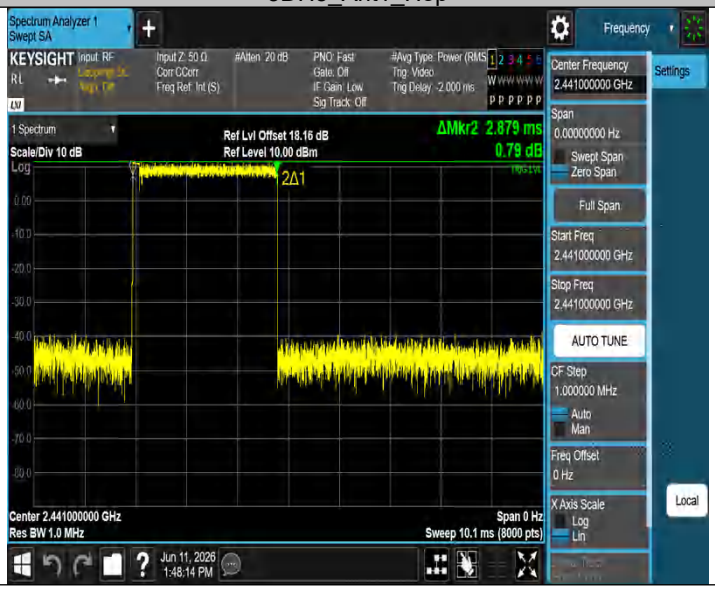
3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop




Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 20 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Trig: Video
Trig Delay: 0.000 s
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 18.16 dB
Ref Level 10.00 dBm
Center 2.441000000 GHz
Res BW 510 kHz
Span 0 Hz
Sweep 31.6 s (30000 pts)
Jun 11, 2026
1:48:56 PM
Frequency
Center Frequency
2.441000000 GHz
Settings
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
AUTO TUNE
CF Step
510.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Local

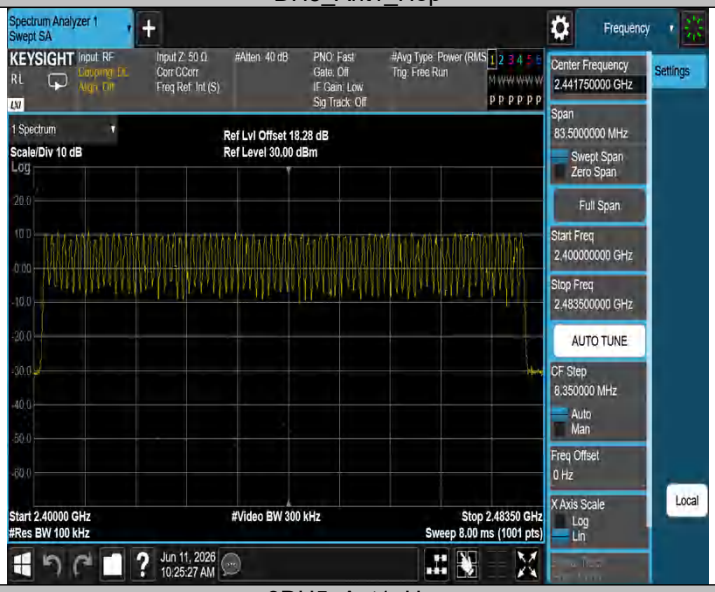
Appendix A.5: Test Results of Number of Hopping Frequency

Test Result

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

Test Graphs

DH5_Ant1_Hop



3DH5_Ant1_Hop

Appendix A.6: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	11.16	-41.34	≤-8.84	PASS
		High	2480	10.86	-40.73	≤-9.14	PASS
3DH5	Ant1	Low	2402	11.14	-38.55	≤-8.86	PASS
		High	2480	10.85	-40.50	≤-9.15	PASS
DH5	Ant1	Hopping	2402	11.27	-42.09	≤-8.73	PASS
		Hopping	2480	10.37	-41.46	≤-9.64	PASS
3DH5	Ant1	Hopping	2402	5.02	-41.90	≤-14.98	PASS
		Hopping	2480	4.84	-40.85	≤-15.16	PASS

Test Graphs

DH5_Ant1_Low_2402

DH5_Ant1_High_2480

3DH5_Ant1_Low_2402

3DH5_Ant1_High_2480

DH5_Ant1_Hopping_2402

DH5_Ant1_Hopping_2480

3DH5_Ant1_Hopping_2402

3DH5_Ant1_Hopping_2480

Appendix A.7: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	10.44	10.44	---	PASS
			30~1000	10.44	-51.3	≤-9.56	PASS
			1000~26500	10.44	-53.98	≤-9.56	PASS
		2441	Reference	10.69	10.69	---	PASS
			30~1000	10.69	-51.92	≤-9.31	PASS
			1000~26500	10.69	-45.56	≤-9.31	PASS
		2480	Reference	10.24	10.24	---	PASS
			30~1000	10.24	-51.96	≤-9.76	PASS
			1000~26500	10.24	-54.34	≤-9.76	PASS
3DH5	Ant1	2402	Reference	6.07	6.07	---	PASS
			30~1000	6.07	-51	≤-13.93	PASS
			1000~26500	6.07	-54.25	≤-13.93	PASS
		2441	Reference	8.79	8.79	---	PASS
			30~1000	8.79	-52.32	≤-11.21	PASS
			1000~26500	8.79	-54.14	≤-11.21	PASS
		2480	Reference	10.82	10.82	---	PASS
			30~1000	10.82	-51.57	≤-9.18	PASS
			1000~26500	10.82	-53.66	≤-9.18	PASS

Test Graphs

DH5_Ant1_2402_0~Reference

DH5_Ant1_2402_30~1000

DH5_Ant1_2402_1000~26500

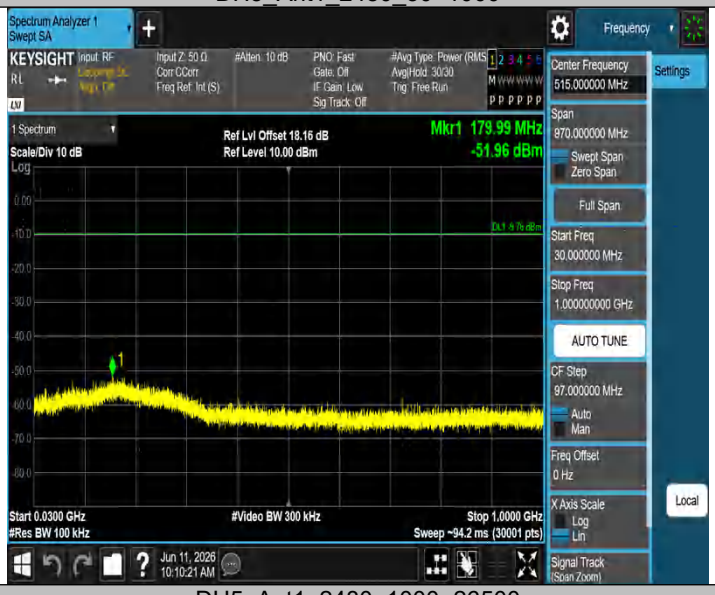
DH5_Ant1_2441_0~Reference

DH5_Ant1_2441_30~1000

DH5_Ant1_2441_1000~26500

DH5_Ant1_2480_0~Reference

DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

3DH5_Ant1_2402_0~Reference

3DH5_Ant1_2402_30~1000

3DH5_Ant1_2402_1000~26500

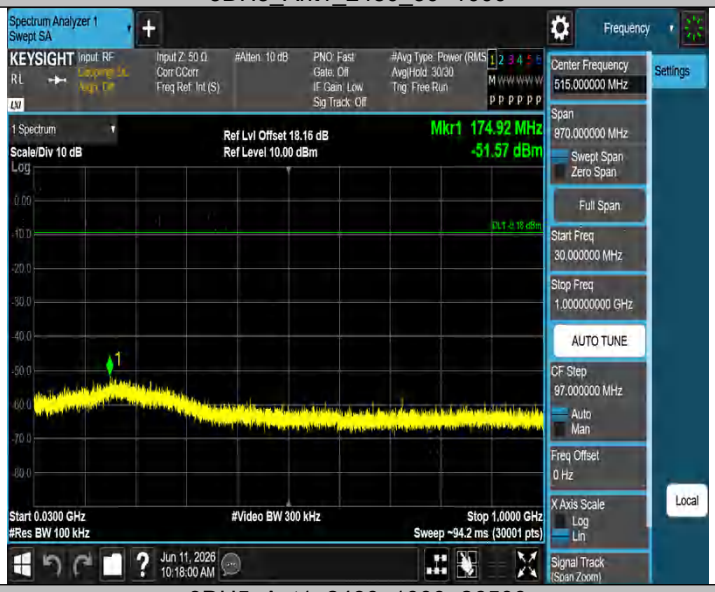
3DH5_Ant1_2441_0~Reference

3DH5_Ant1_2441_30~1000

3DH5_Ant1_2441_1000~26500

3DH5_Ant1_2480_0~Reference

3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Frequency
Center Frequency
13.750000000 GHz
Settings
Span
25.5000000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
AUTO TUNE
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Local
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 18.16 dB
Ref Level 10.00 dBm
Mkr2 25.749 45 GHz
-53.66 dBm
Start 1.00 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 26.50 GHz
Sweep ~2.44 s (30001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.479 85 GHz 6.091 dBm
2 N 1 f 25.749 45 GHz -53.66 dBm
Jun 11, 2026
10:19:09 AM

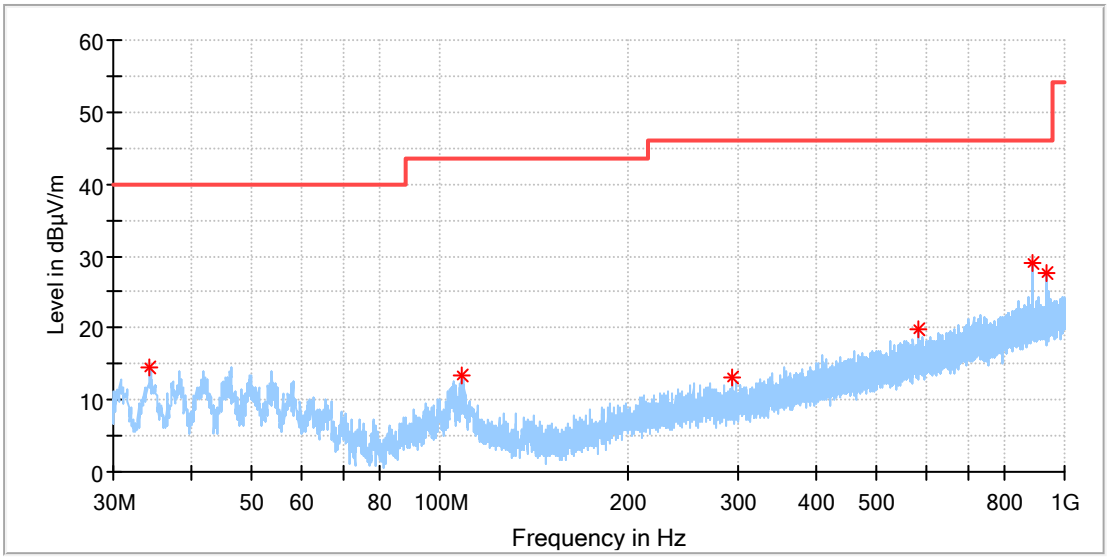
Appendix A.8: Test Results of Radiated Spurious Emissions

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.

30MHz - 1GHz

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

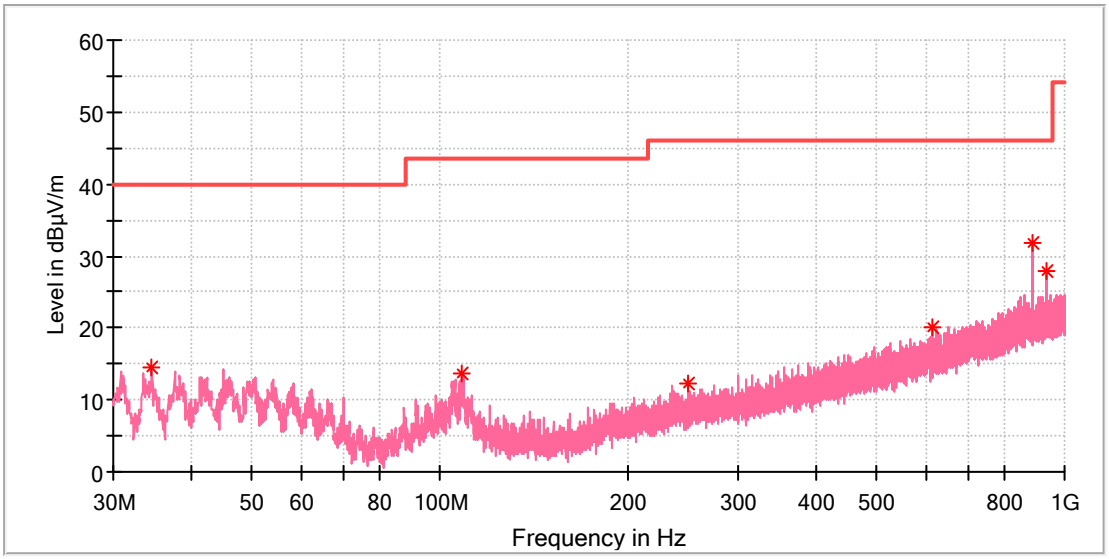
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.365000	14.52	40.00	25.48	100.0	H	233.0	-22.2
108.085000	13.35	43.50	30.15	100.0	H	0.0	-19.1
293.301111	13.03	46.00	32.97	100.0	H	301.0	-16.4
582.361111	19.70	46.00	26.30	100.0	H	118.0	-10.1
891.036667	28.93	46.00	17.07	100.0	H	322.0	-4.9
936.950000	27.76	46.00	18.24	100.0	H	89.0	-4.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.580556	14.56	40.00	25.44	100.0	V	314.0	-22.1
108.785556	13.59	43.50	29.91	100.0	V	181.0	-19.1
250.028333	12.19	46.00	33.81	100.0	V	246.0	-17.4
612.916111	19.98	46.00	26.02	100.0	V	314.0	-9.4
890.982778	31.92	46.00	14.08	100.0	V	0.0	-4.9
938.405000	27.92	46.00	18.08	100.0	V	355.0	-4.4

Final_Result

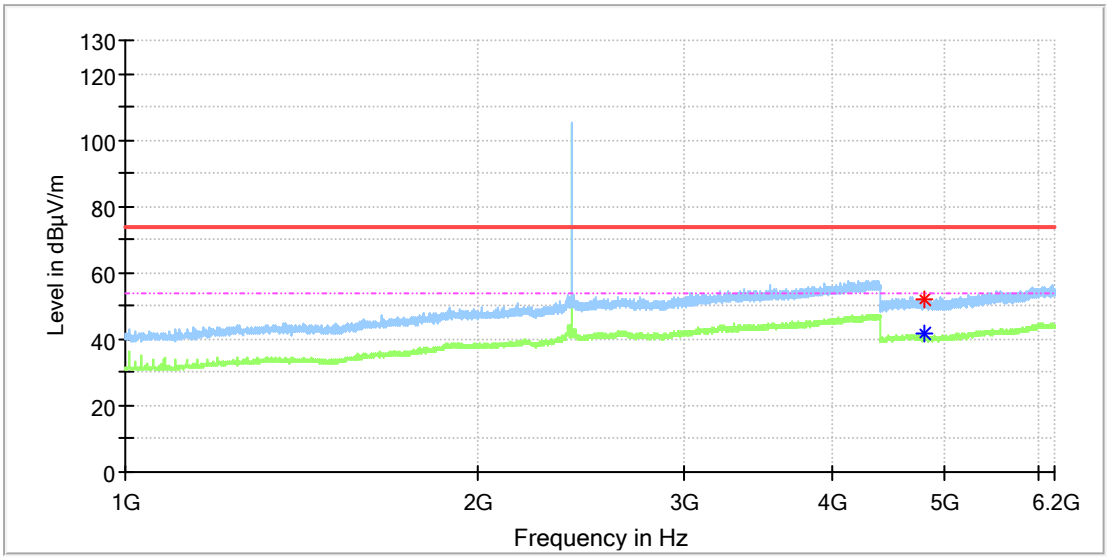
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

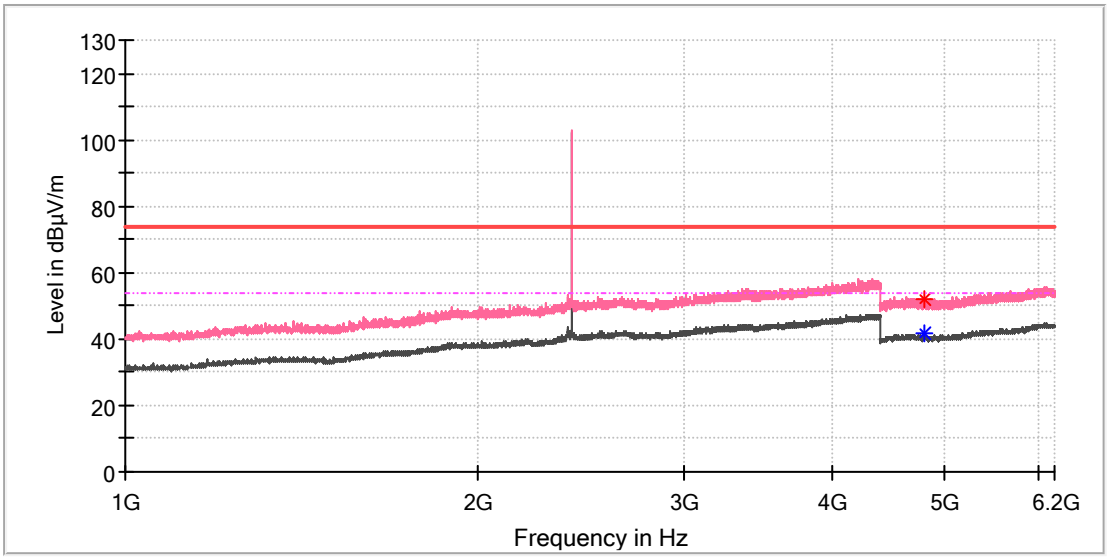
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4801.500000	51.78	---	74.00	22.22	150.0	H	115.0	13.3
4803.500000	---	41.62	54.00	12.38	150.0	H	75.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

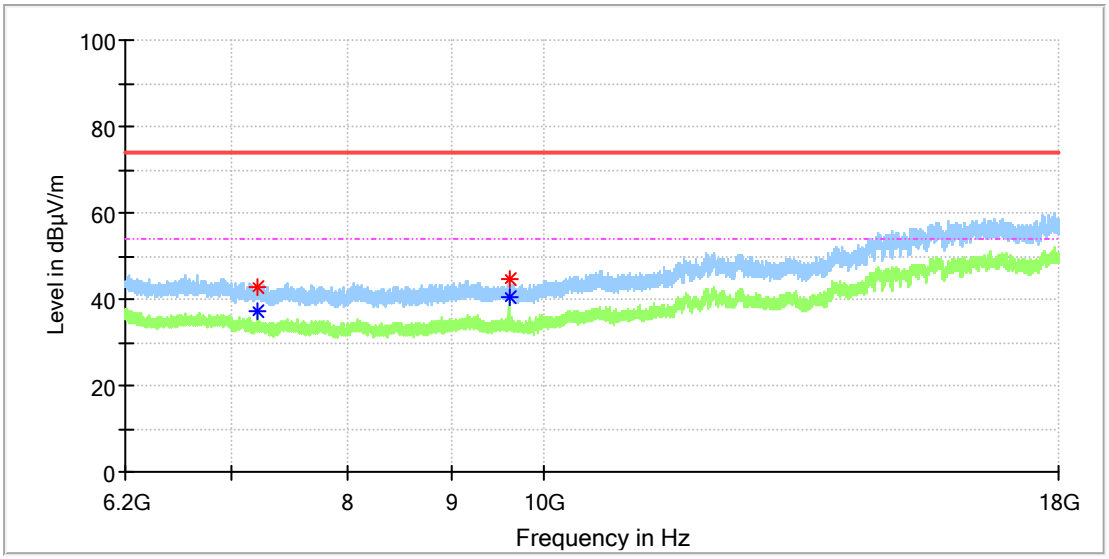
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	41.99	54.00	12.01	150.0	V	137.0	13.3
4807.500000	52.02	---	74.00	21.98	150.0	V	197.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

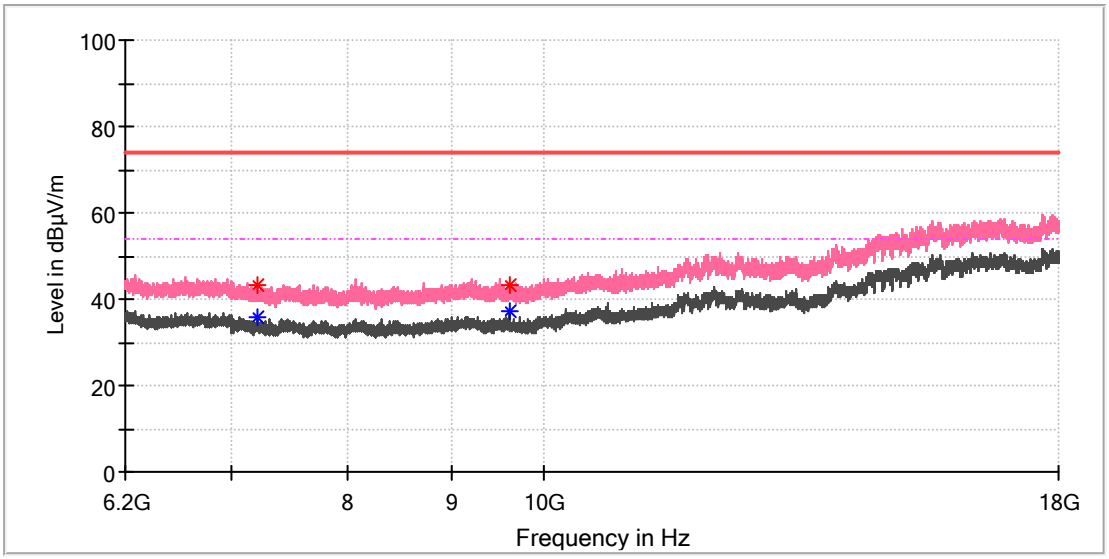
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	42.82	---	74.00	31.18	150.0	H	0.0	8.8
7205.950000	---	37.36	54.00	16.64	150.0	H	0.0	8.8
9607.741667	44.58	---	74.00	29.42	150.0	H	354.0	10.4
9607.741667	---	40.32	54.00	13.68	150.0	H	354.0	10.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

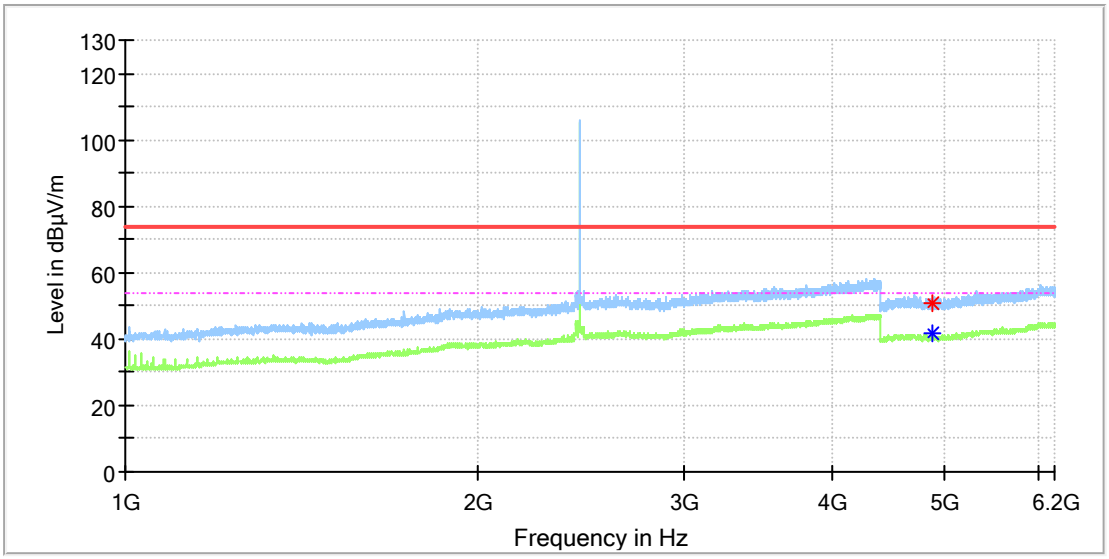
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.966667	43.29	---	74.00	30.71	150.0	V	92.0	8.8
7205.458333	---	35.90	54.00	18.10	150.0	V	16.0	8.8
9607.741667	43.37	---	74.00	30.63	150.0	V	69.0	10.4
9607.741667	---	37.13	54.00	16.87	150.0	V	69.0	10.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

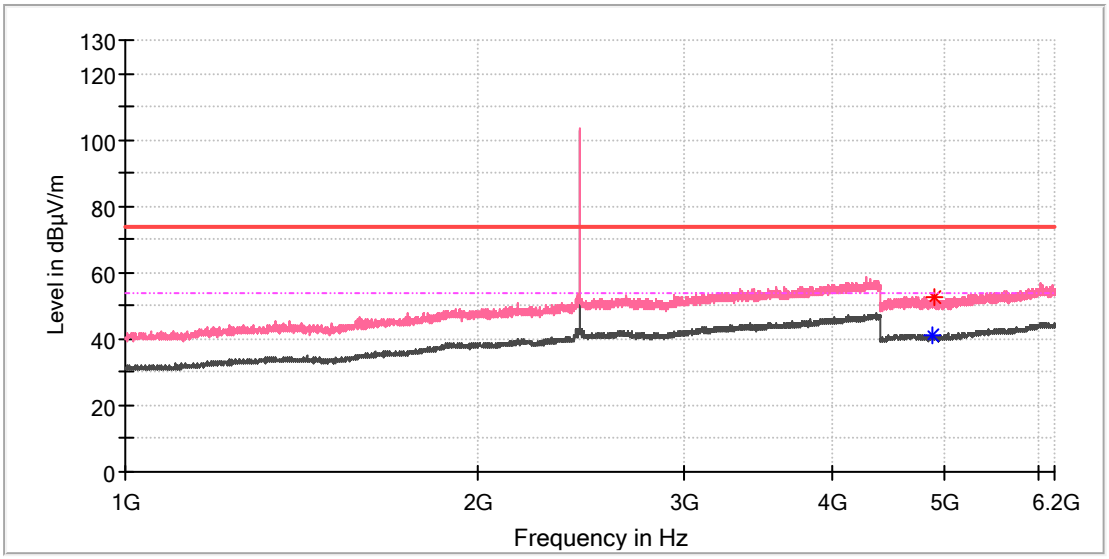
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	50.55	---	74.00	23.45	150.0	H	33.0	13.3
4882.000000	---	41.52	54.00	12.48	150.0	H	33.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

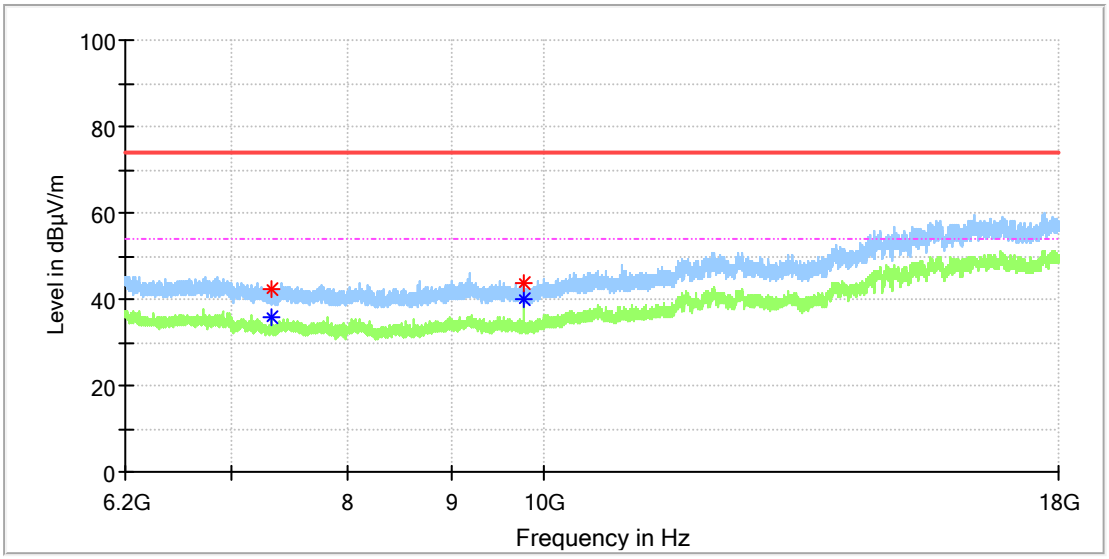
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	---	41.22	54.00	12.78	150.0	V	173.0	13.3
4891.500000	52.73	---	74.00	21.27	150.0	V	26.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

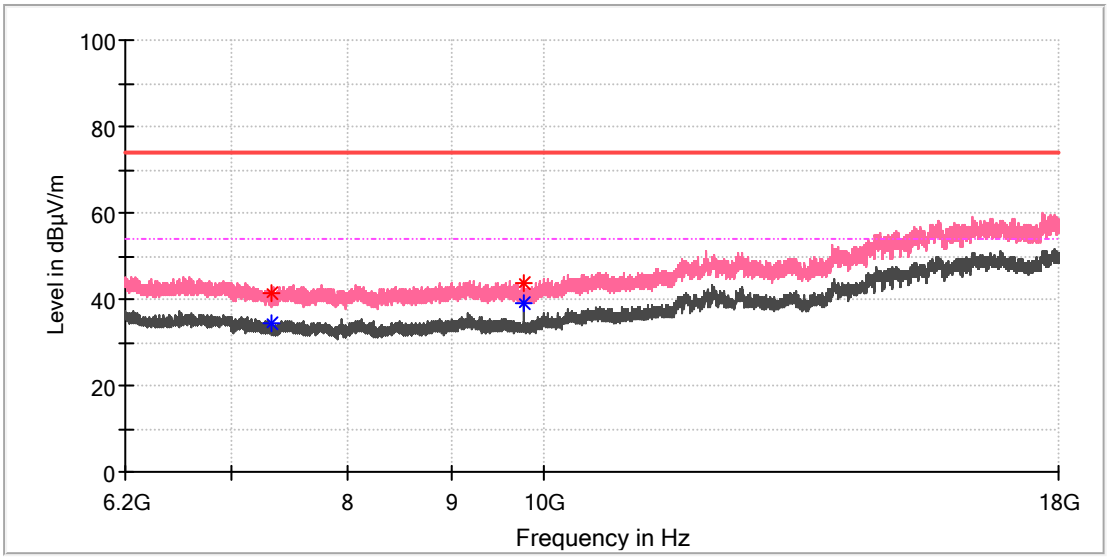
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.966667	---	36.00	54.00	18.00	150.0	H	301.0	8.2
7323.950000	42.16	---	74.00	31.84	150.0	H	65.0	8.2
9763.600000	43.94	---	74.00	30.06	150.0	H	356.0	10.4
9763.600000	---	39.85	54.00	14.15	150.0	H	356.0	10.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

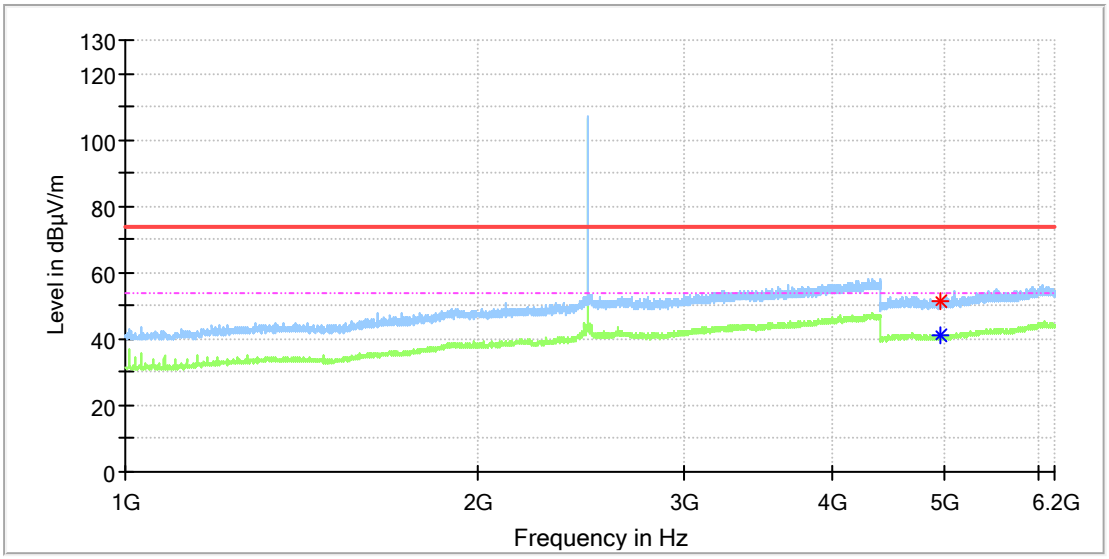
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.475000	---	34.38	54.00	19.62	150.0	V	78.0	8.2
7330.833333	41.36	---	74.00	32.65	150.0	V	57.0	8.1
9764.091667	---	38.98	54.00	15.02	150.0	V	25.0	10.4
9764.583333	43.79	---	74.00	30.21	150.0	V	136.0	10.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

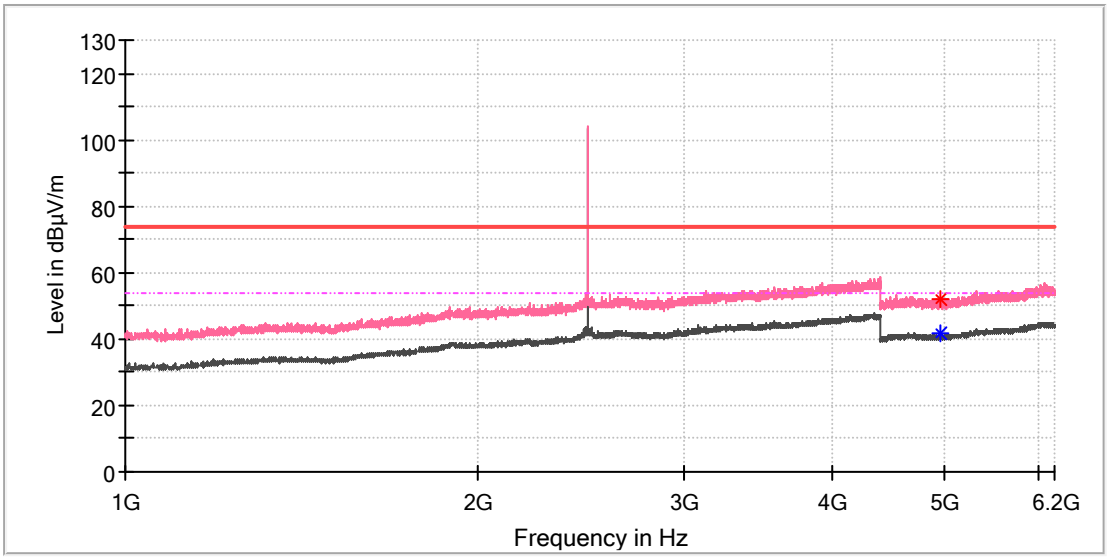
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4958.000000	51.32	---	74.00	22.68	150.0	H	99.0	13.3
4959.500000	---	40.89	54.00	13.11	150.0	H	18.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

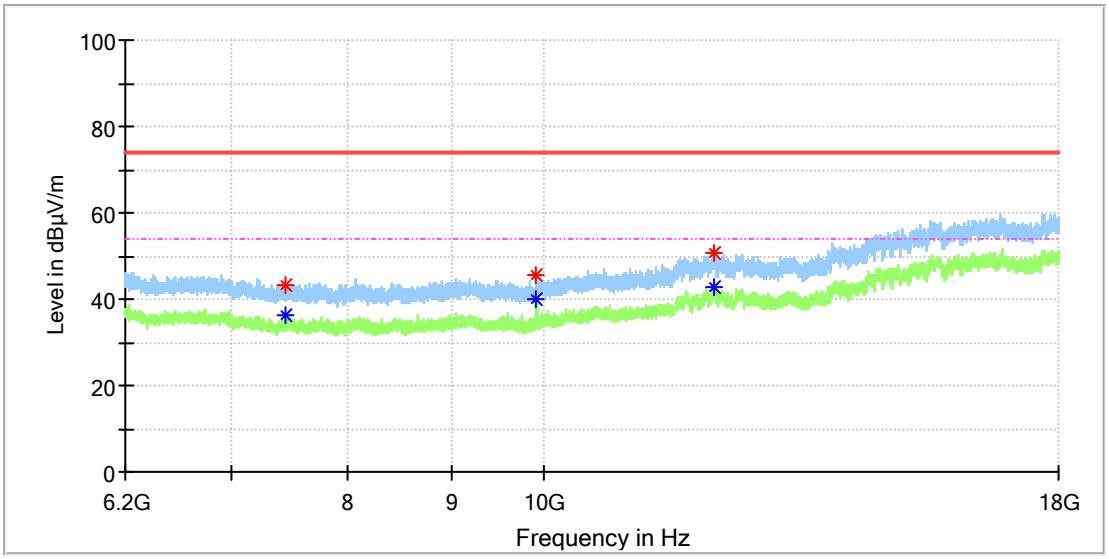
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4956.500000	52.19	---	74.00	21.81	150.0	V	59.0	13.3
4960.000000	---	41.43	54.00	12.57	150.0	V	207.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

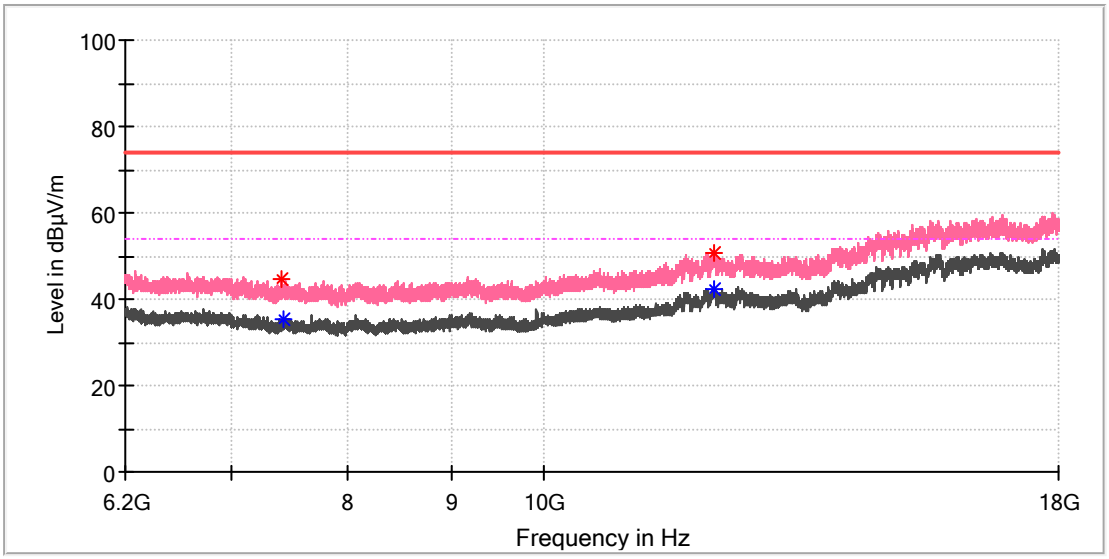
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	36.07	54.00	17.93	150.0	H	6.0	8.4
7439.983333	43.33	---	74.00	30.67	150.0	H	305.0	8.4
9919.950000	45.61	---	74.00	28.39	150.0	H	28.0	10.8
9919.950000	---	40.07	54.00	13.93	150.0	H	28.0	10.8
12140.808333	50.59	---	74.00	23.41	150.0	H	195.0	16.5
12149.166667	---	42.91	54.00	11.09	150.0	H	127.0	16.7

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
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)
7413.925000	44.46	---	74.00	29.54	150.0	V	264.0	8.3
7426.216667	---	35.37	54.00	18.63	150.0	V	155.0	8.4
12132.941667	50.70	---	74.00	23.30	150.0	V	308.0	16.3
12144.741667	---	42.51	54.00	11.49	150.0	V	319.0	16.6

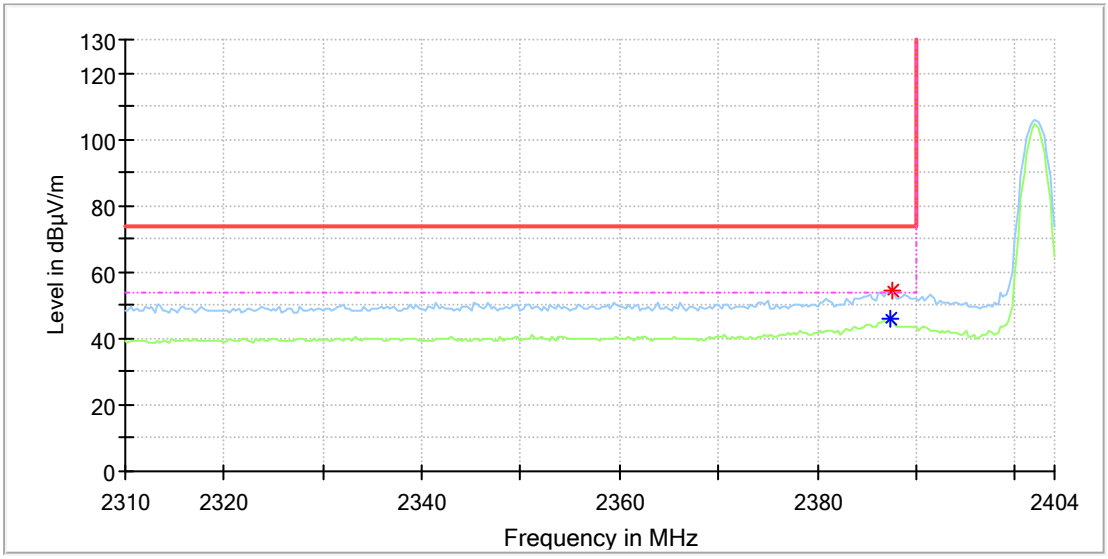
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

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

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

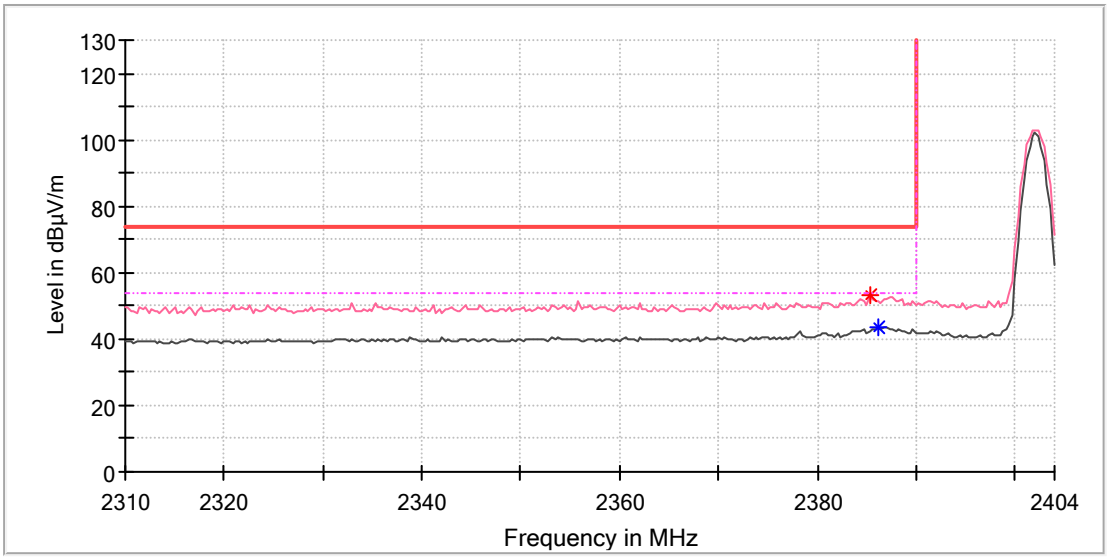
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.352941	---	45.97	54.00	8.03	150.0	H	149.0	8.5
2387.647059	54.71	---	74.00	19.29	150.0	H	143.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

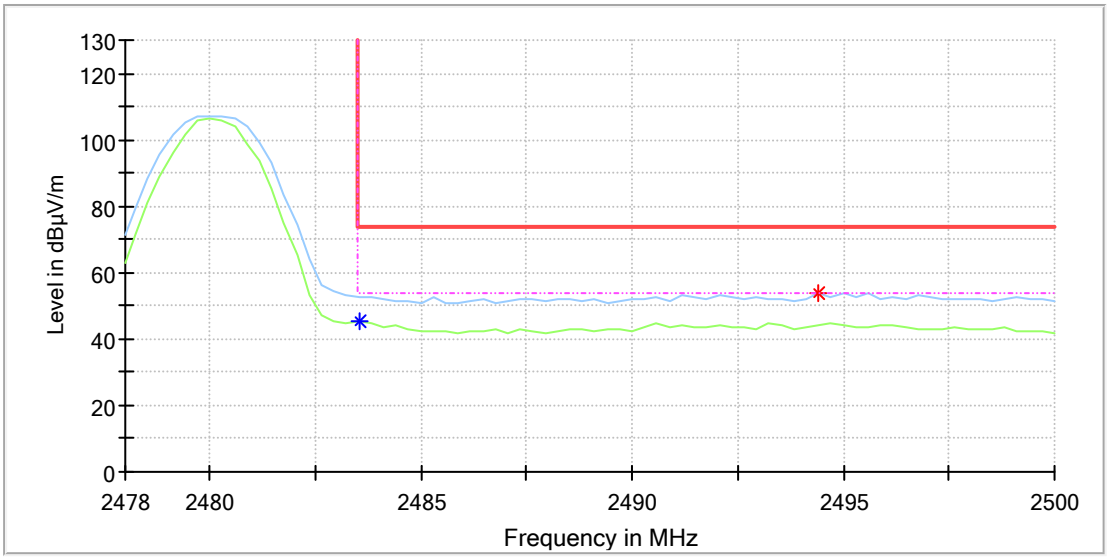
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.294118	53.00	---	74.00	21.00	150.0	V	151.0	8.5
2386.176471	---	43.70	54.00	10.30	150.0	V	56.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

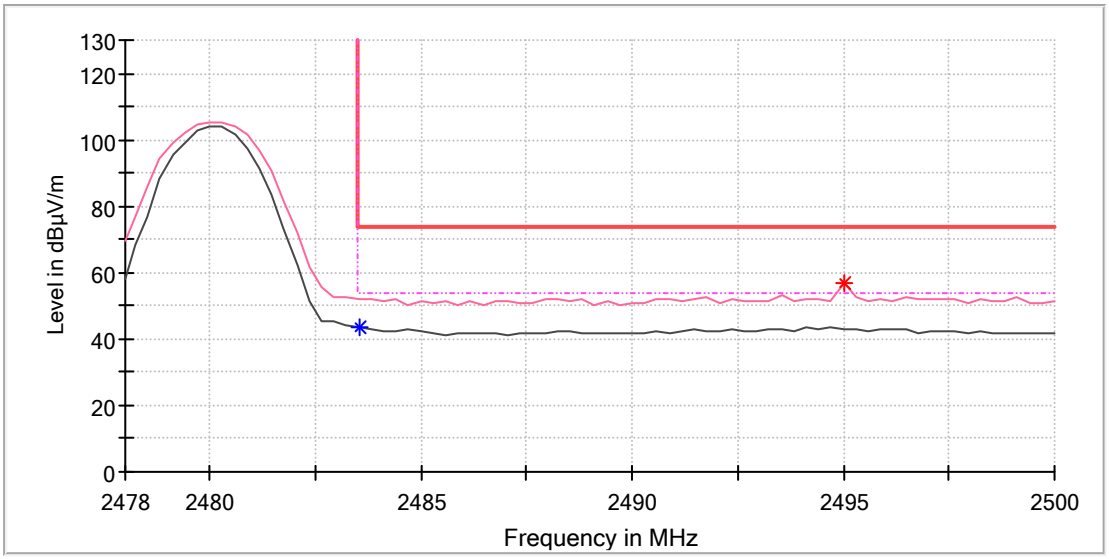
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	45.22	54.00	8.78	150.0	H	163.0	9.0
2494.411765	54.03	---	74.00	19.97	150.0	H	148.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BR DH5_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
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)
2483.529412	---	43.77	54.00	10.23	150.0	V	45.0	9.0
2495.000000	56.66	---	74.00	17.34	150.0	V	50.0	9.0

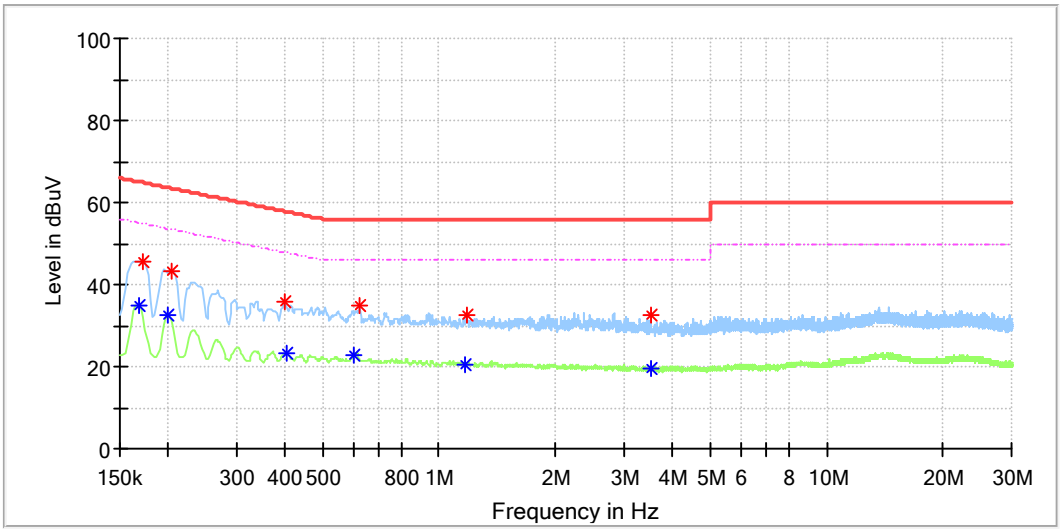
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Appendix A.10: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Order Number:	P02424508-27234703
Model:	NS-BTSTM
Test Mode:	Normal Working+ charging
Test Voltage:	AC 120V 60Hz
Standard:	FCC PART 15
Test By:/Review By:	Charron Chen/Charlie Zha
Tem./Hum./Pressure:	24.2°C/51.0%/101kPa
Remark:	SR 3



Critical_Freqs

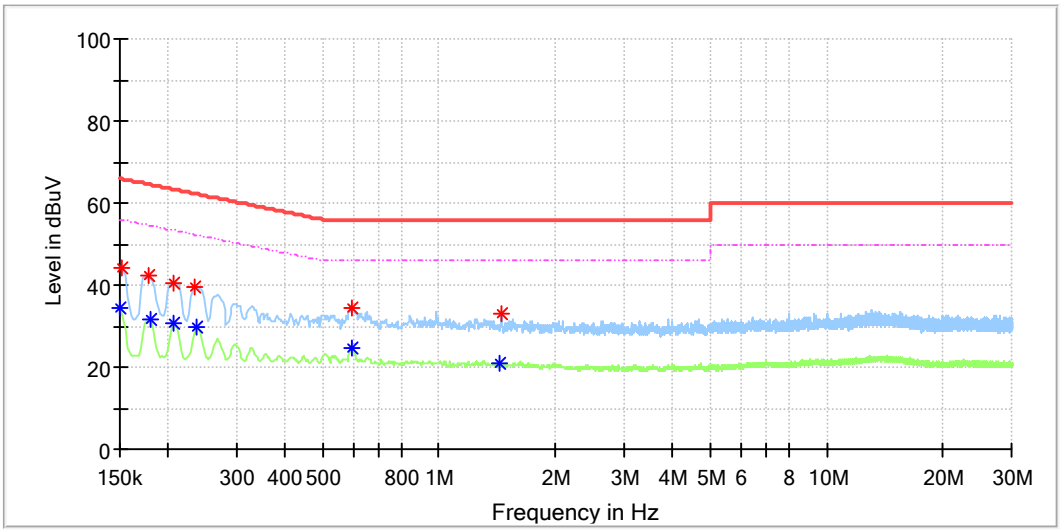
Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.167	---	35.1	55.09	19.98	L1	9.6
0.172	45.6	---	64.85	19.25	L1	9.6
0.200	---	32.4	53.62	21.17	L1	9.7
0.205	43.1	---	63.42	20.28	L1	9.7
0.399	36.0	---	57.88	21.92	L1	9.5
0.404	---	23.4	47.78	24.37	L1	9.5
0.603	---	22.8	46.00	23.17	L1	9.6
0.623	34.7	---	56.00	21.28	L1	9.6
1.160	---	20.6	46.00	25.40	L1	9.6
1.175	32.5	---	56.00	23.54	L1	9.6
3.521	32.5	---	56.00	23.48	L1	9.7
3.528	---	19.5	46.00	26.49	L1	9.7

Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
---	---	---	---	---	---	---		---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Order Number:	P02424508-27234703
Model:	NS-BTSTM
Test Mode:	Normal Working+ charging
Test Voltage:	AC 120V 60Hz
Standard:	FCC PART 15
Test By:/Review By:	Charron Chen/Charlie Zha
Tem./Hum./Pressure:	24.2°C/51.0%/101kPa
Remark:	SR 3



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150	---	34.5	56.00	21.50	N	9.7
0.152	44.1	---	65.86	21.75	N	9.7
0.177	42.3	---	64.61	22.31	N	9.9
0.180	---	31.6	54.49	22.84	N	9.9
0.207	40.6	---	63.32	22.74	N	9.9
0.207	---	30.8	53.32	22.51	N	9.9
0.235	39.6	---	62.29	22.65	N	9.9
0.237	---	29.8	52.20	22.38	N	9.9
0.598	---	24.8	46.00	21.18	N	9.9
0.598	34.2	---	56.00	21.80	N	9.9
1.431	---	21.0	46.00	25.05	N	9.9
1.448	33.1	---	56.00	22.86	N	9.9

Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
---	---	---	---	---	---	---		---

Appendix B: Test Results of Bluetooth LE

Appendix B.1: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.728	2401.644	2402.372	0.5	PASS
		2440	0.676	2439.664	2440.340	0.5	PASS
		2480	0.680	2479.644	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.192	2401.356	2402.548	0.5	PASS
		2440	1.180	2439.360	2440.540	0.5	PASS
		2480	1.140	2479.380	2480.520	0.5	PASS

Test Graphs

BLE_1M_Ant1_2402

BLE_1M_Ant1_2440

BLE_1M_Ant1_2480

BLE_2M_Ant1_2402

BLE_2M_Ant1_2440

BLE_2M_Ant1_2480


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 18.16 dB
Ref Level 30.00 dBm
ΔMkr3 1.140 MHz
-0.21 dB
Center 2.480000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Span 4.000 MHz
Sweep 1.00 ms (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.479 380 GHz 3.172 dBm
2 N 1 f 2.480 000 GHz 8.855 dBm
3 Δ1 1 f (Δ) 1.140 MHz (Δ) -0.2131 dB
Jun 11, 2026
9:59:38 AM
Frequency
Center Frequency
2.480000000 GHz
Settings
Span
4.00000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
2.478000000 GHz
Stop Freq
2.482000000 GHz
AUTO TUNE
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Local

Appendix B.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0499	2401.4829	2402.5328	---	PASS
		2440	1.0426	2439.4864	2440.5290	---	PASS
		2480	1.0410	2479.4866	2480.5276	---	PASS
BLE_2M	Ant1	2402	2.0330	2401.0019	2403.0349	---	PASS
		2440	2.0307	2439.0017	2441.0324	---	PASS
		2480	2.0300	2479.0063	2481.0363	---	PASS

Test Graphs

BLE_1M_Ant1_2402

BLE_1M_Ant1_2440

BLE_1M_Ant1_2480

BLE_2M_Ant1_2402

BLE_2M_Ant1_2440

BLE_2M_Ant1_2480


Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Input: RF
Coupling: DC
Align: Off
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 40 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 2.480000000 GHz
Avg|Hold: 100/100
Radio Std: None
Frequency
Center Frequency
2.480000000 GHz
Settings
Span
4.0000 MHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
1 Graph
Scale/Div 10.0 dB
Ref Lvl Offset 18.16 dB
Ref Value 30.00 dBm
Mkr1 2.479500000 GHz
5.49 dBm
Log
Center 2.480000 GHz
#Res BW 43.000 kHz
#Video BW 130.00 kHz
Span 4 MHz
Sweep 2.07 ms (1001 pts)
2 Metrics
Occupied Bandwidth
2.0300 MHz
Total Power
16.2 dBm
Transmit Freq Error
21.286 kHz
% of OBW Power
99.00 %
x dB Bandwidth
2.502 MHz
x dB
-26.00 dB
Local
Jun 11, 2026
9:59:45 AM

Appendix B.3: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-4.43	≤8.00	PASS
		2440	-4.78	≤8.00	PASS
		2480	-4.64	≤8.00	PASS
BLE_2M	Ant1	2402	-7.54	≤8.00	PASS
		2440	-7.85	≤8.00	PASS
		2480	-7.79	≤8.00	PASS

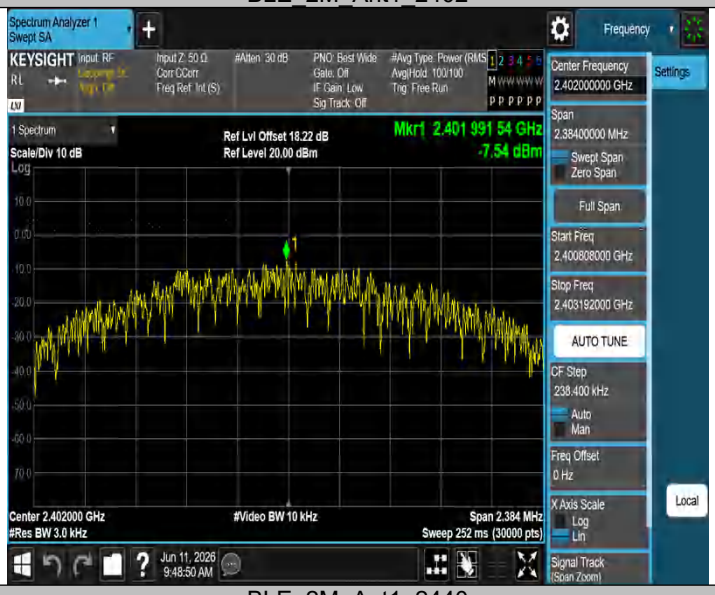
Test Graphs

BLE_1M_Ant1_2402

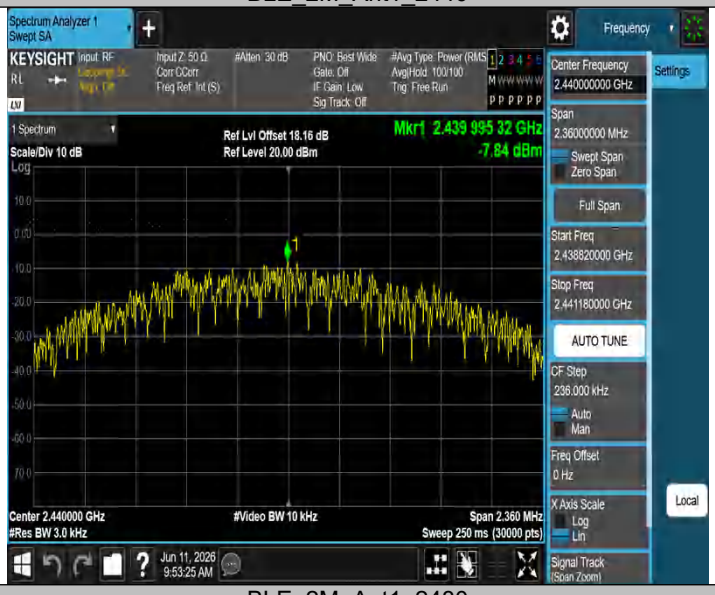
BLE_1M_Ant1_2440

BLE_1M_Ant1_2480

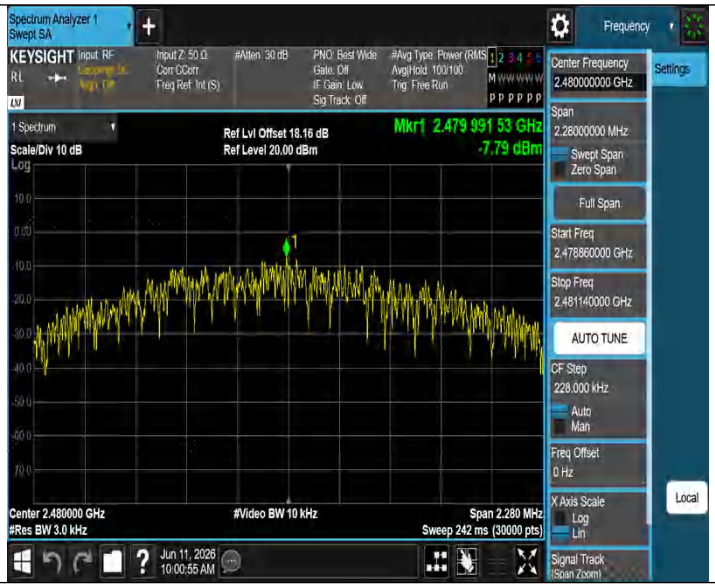
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 18.16 dB
Ref Level 20.00 dBm
Mkr1 2.479 991 53 GHz
-7.79 dBm
Center 2.480000 GHz
#Res BW 3.0 kHz
#Video BW 10 kHz
Span 2.280 MHz
Sweep 242 ms (30000 pts)
Jun 11, 2026
10:00:55 AM
Frequency
Center Frequency
2.480000000 GHz
Span
2.28000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
2.478860000 GHz
Stop Freq
2.481140000 GHz
AUTO TUNE
CF Step
228.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Settings
Local

Appendix B.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	10.56	-41.65	≤-9.44	PASS
		High	2480	10.28	-40.58	≤-9.72	PASS
BLE_2M	Ant1	Low	2402	9.33	-28.02	≤-10.67	PASS
		High	2480	9.12	-41.89	≤-10.88	PASS

Test Graphs

BLE_1M_Ant1_Low_2402

BLE_1M_Ant1_High_2480

BLE_2M_Ant1_Low_2402

BLE_2M_Ant1_High_2480

Appendix B.5: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	10.35	10.35	---	PASS
			30~1000	10.35	-52.3	≤-9.65	PASS
			1000~26500	10.35	-53.51	≤-9.65	PASS
		2440	Reference	9.81	9.81	---	PASS
			30~1000	9.81	-51.89	≤-10.19	PASS
			1000~26500	9.81	-54.49	≤-10.19	PASS
		2480	Reference	10.11	10.11	---	PASS
			30~1000	10.11	-52.28	≤-9.89	PASS
			1000~26500	10.11	-54.47	≤-9.89	PASS
BLE_2M	Ant1	2402	Reference	9.38	9.38	---	PASS
			30~1000	9.38	-50.07	≤-10.62	PASS
			1000~26500	9.38	-53.71	≤-10.62	PASS
		2440	Reference	9.00	9.00	---	PASS
			30~1000	9.00	-50.04	≤-11	PASS
			1000~26500	9.00	-54.25	≤-11	PASS
		2480	Reference	9.12	9.12	---	PASS
			30~1000	9.12	-52.98	≤-10.88	PASS
			1000~26500	9.12	-54.6	≤-10.88	PASS

Test Graphs

BLE_1M_Ant1_2402_0~Reference

BLE_1M_Ant1_2402_30~1000

BLE_1M_Ant1_2402_1000~26500

BLE_1M_Ant1_2440_0~Reference

BLE_1M_Ant1_2440_30~1000

BLE_1M_Ant1_2440_1000~26500

BLE_1M_Ant1_2480_0~Reference

BLE_1M_Ant1_2480_30~1000

BLE_1M_Ant1_2480_1000~26500

BLE_2M_Ant1_2402_0~Reference

BLE_2M_Ant1_2402_30~1000

BLE_2M_Ant1_2402_1000~26500

BLE_2M_Ant1_2440_0~Reference

BLE_2M_Ant1_2440_30~1000

BLE_2M_Ant1_2440_1000~26500

BLE_2M_Ant1_2480_0~Reference

BLE_2M_Ant1_2480_30~1000

BLE_2M_Ant1_2480_1000~26500


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 10 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 20/20
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 18.16 dB
Ref Level 10.00 dBm
Mkr2 26.403 10 GHz
-54.60 dBm
Start 1.00 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 26.50 GHz
Sweep ~2.44 s (30001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.479 85 GHz 9.361 dBm
2 N 1 f 26.403 10 GHz -54.60 dBm
Jun 11, 2026
10:02:19 AM
Frequency
Center Frequency
13.750000000 GHz
Span
25.5000000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
AUTO TUNE
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Settings
Local

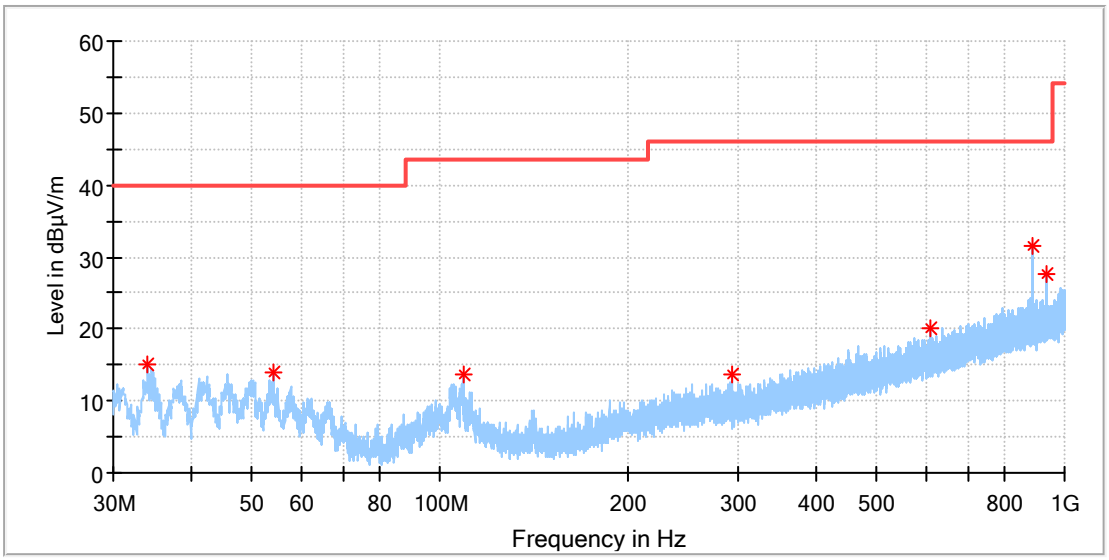
Appendix B.6: Test Results of Radiated Spurious Emissions

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.

30MHz - 1GHz

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

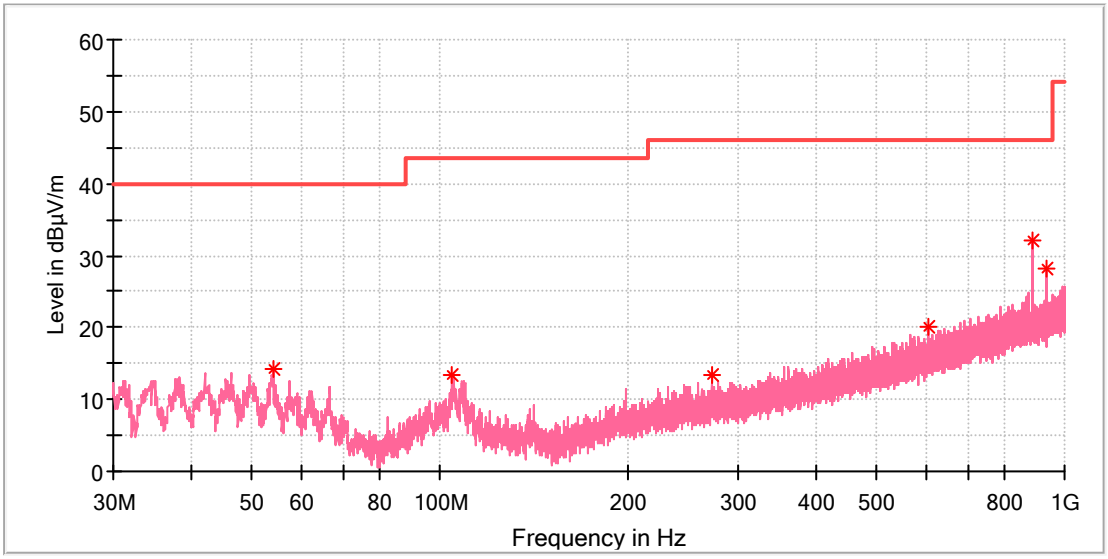
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.095556	15.18	40.00	24.82	100.0	H	260.0	-22.3
54.250000	13.92	40.00	26.08	100.0	H	151.0	-18.5
108.839444	13.59	43.50	29.91	100.0	H	240.0	-19.1
293.301111	13.57	46.00	32.43	100.0	H	217.0	-16.4
609.251667	20.01	46.00	25.99	100.0	H	0.0	-9.5
890.982778	31.51	46.00	14.49	100.0	H	115.0	-4.9
938.458889	27.66	46.00	18.34	100.0	H	103.0	-4.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
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)
54.142222	14.23	40.00	25.77	100.0	V	326.0	-18.5
104.797778	13.33	43.50	30.17	100.0	V	113.0	-18.9
271.799444	13.31	46.00	32.69	100.0	V	0.0	-16.9
603.701111	20.11	46.00	25.89	100.0	V	305.0	-9.6
890.982778	31.97	46.00	14.03	100.0	V	136.0	-4.9
938.405000	28.15	46.00	17.85	100.0	V	102.0	-4.4

Final_Result

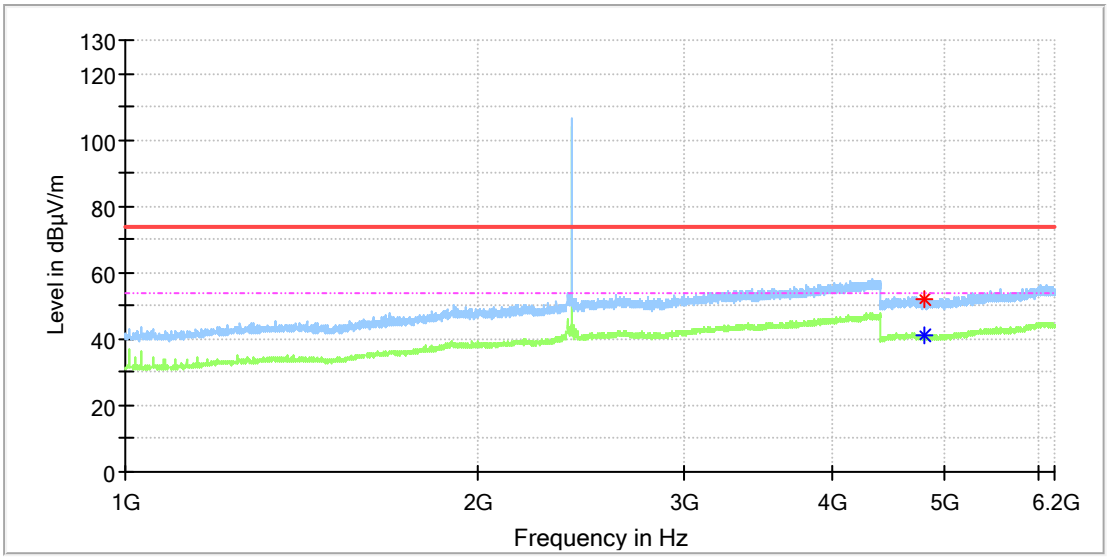
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

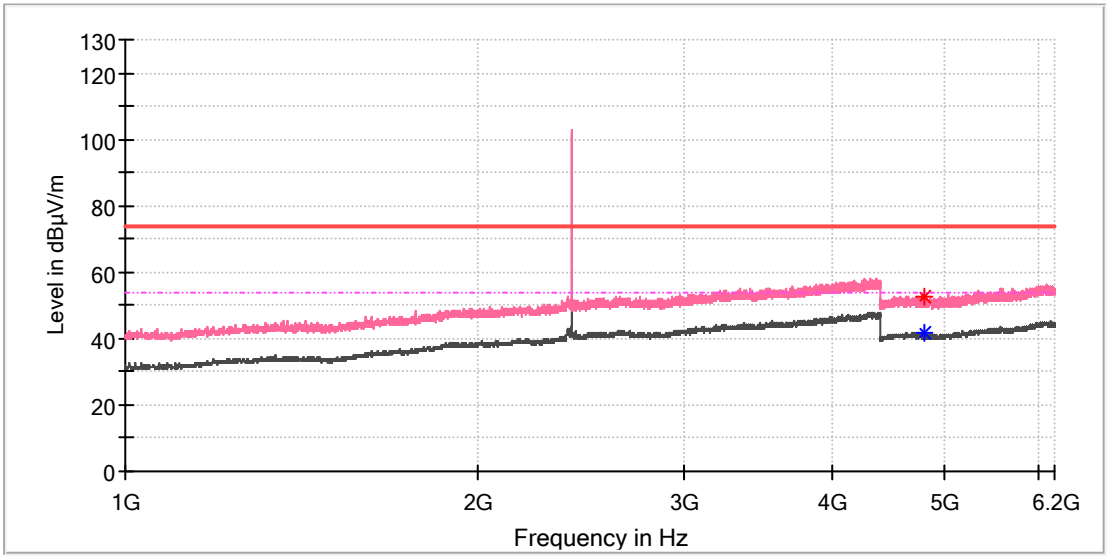
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.000000	---	41.42	54.00	12.58	150.0	H	17.0	13.3
4803.500000	51.87	---	74.00	22.13	150.0	H	100.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

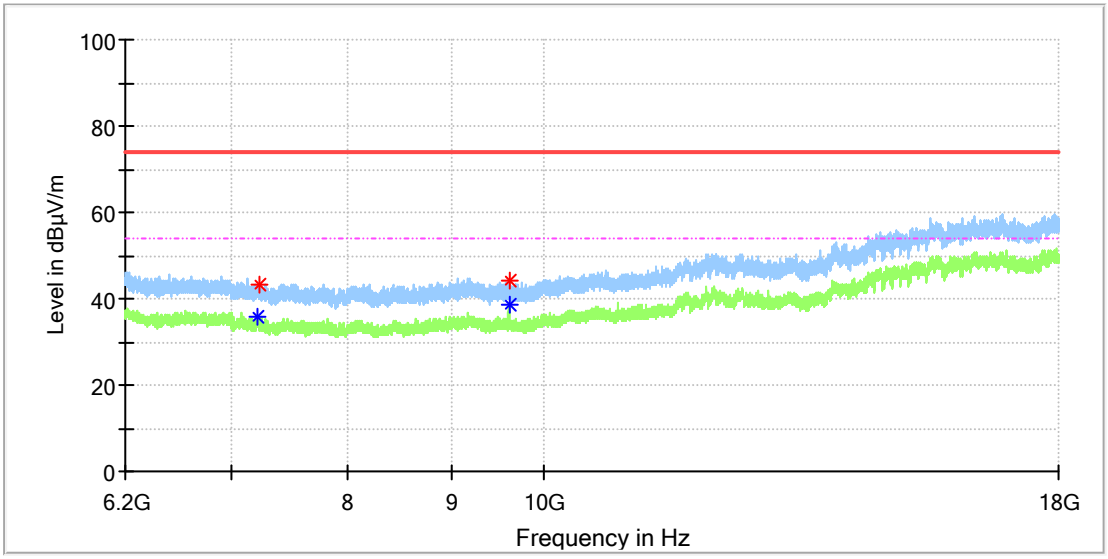
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	41.54	54.00	12.46	150.0	V	275.0	13.3
4804.500000	52.45	---	74.00	21.55	150.0	V	178.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

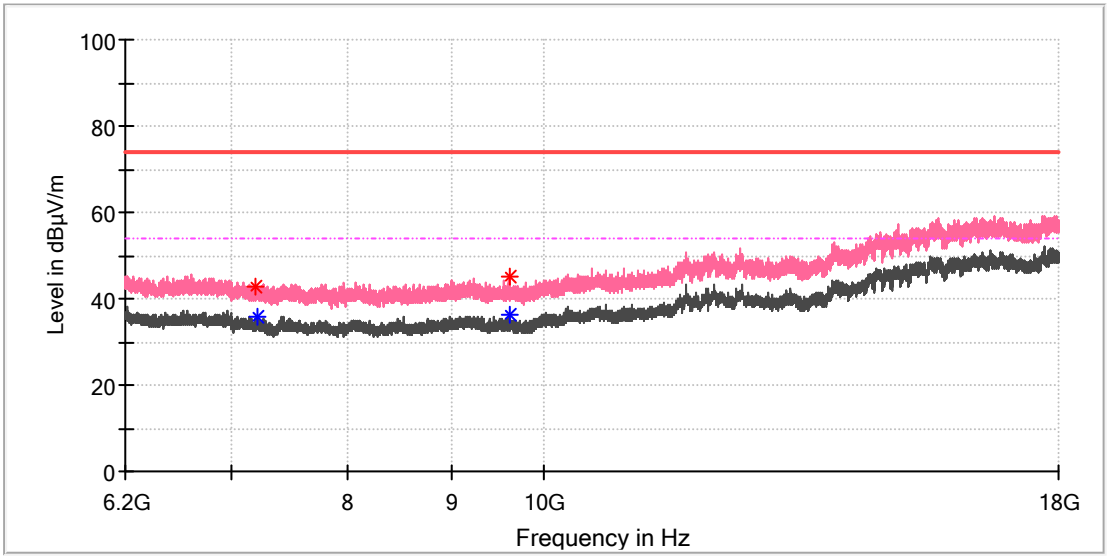
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7218.241667	---	35.78	54.00	18.22	150.0	H	165.0	8.7
7225.616667	43.45	---	74.00	30.55	150.0	H	154.0	8.7
9607.741667	44.16	---	74.00	29.84	150.0	H	79.0	10.4
9607.741667	---	38.47	54.00	15.53	150.0	H	79.0	10.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

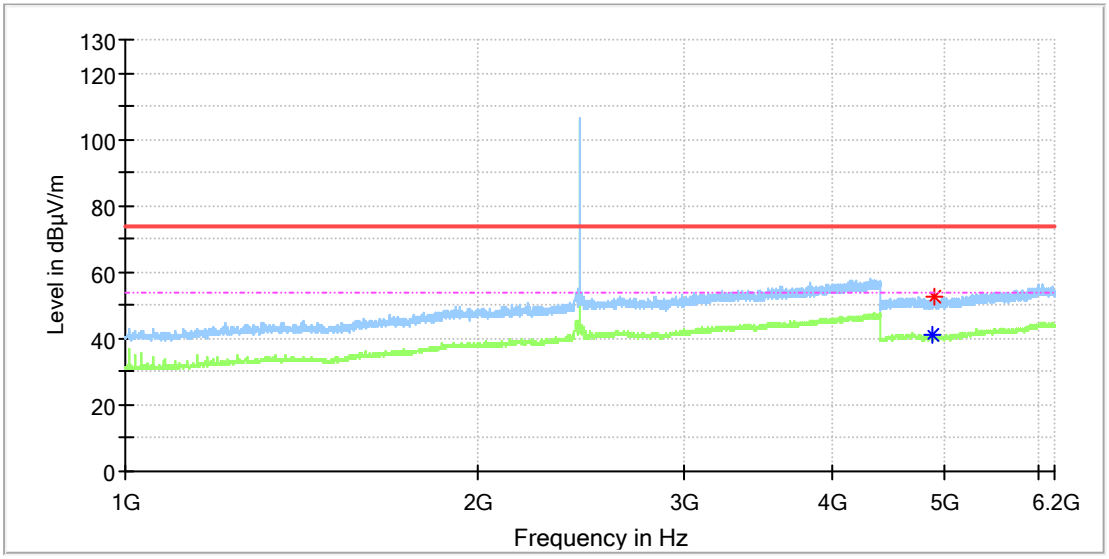
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7199.558333	42.98	---	74.00	31.02	150.0	V	75.0	8.8
7205.950000	---	35.89	54.00	18.11	150.0	V	97.0	8.8
9607.741667	44.91	---	74.00	29.09	150.0	V	203.0	10.4
9607.741667	---	36.23	54.00	17.77	150.0	V	203.0	10.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

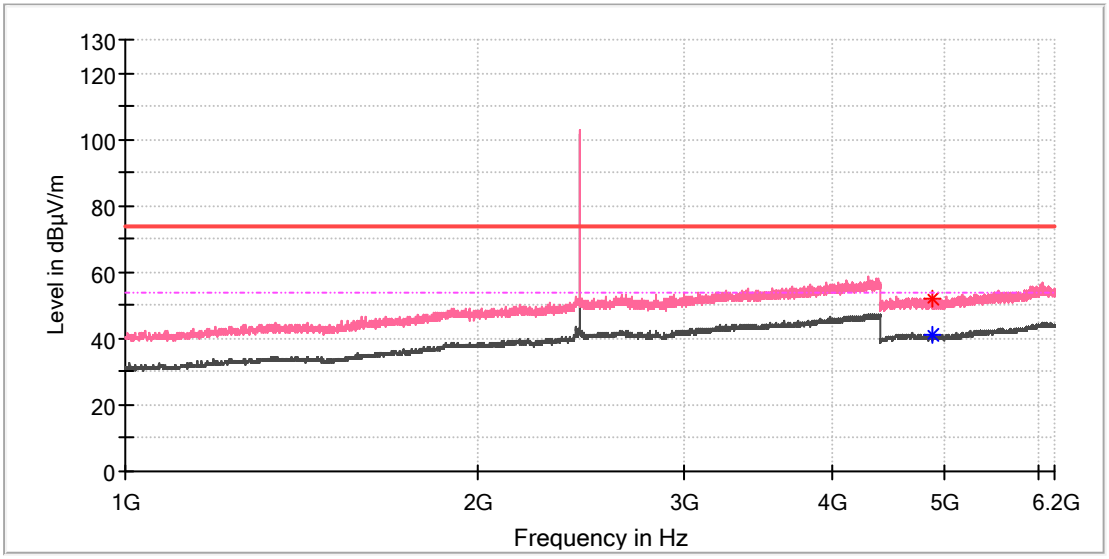
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.000000	---	40.90	54.00	13.10	150.0	H	126.0	13.3
4889.000000	52.46	---	74.00	21.54	150.0	H	0.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

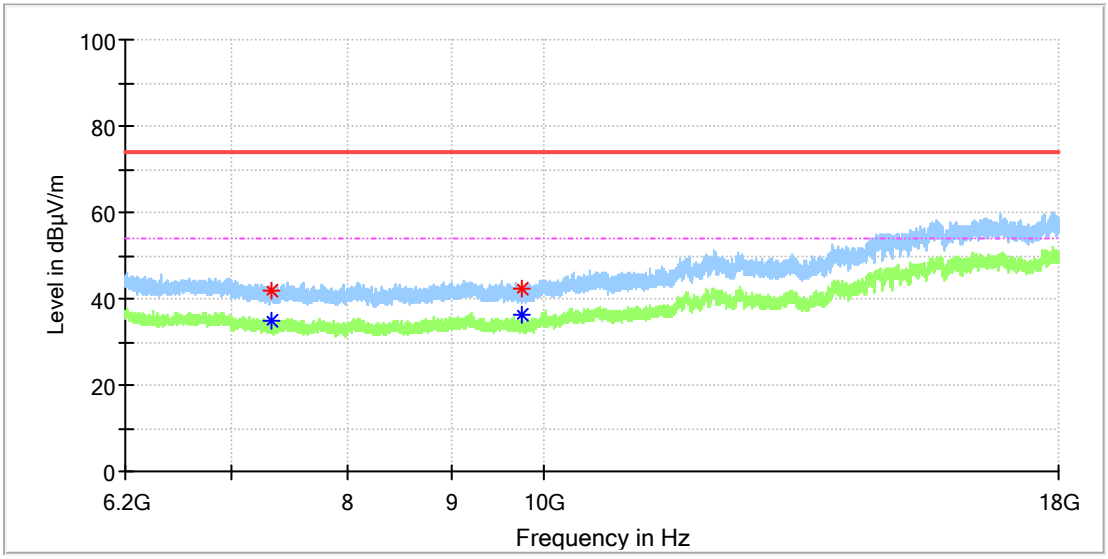
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	51.83	---	74.00	22.17	150.0	V	340.0	13.3
4880.000000	---	40.99	54.00	13.01	150.0	V	300.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

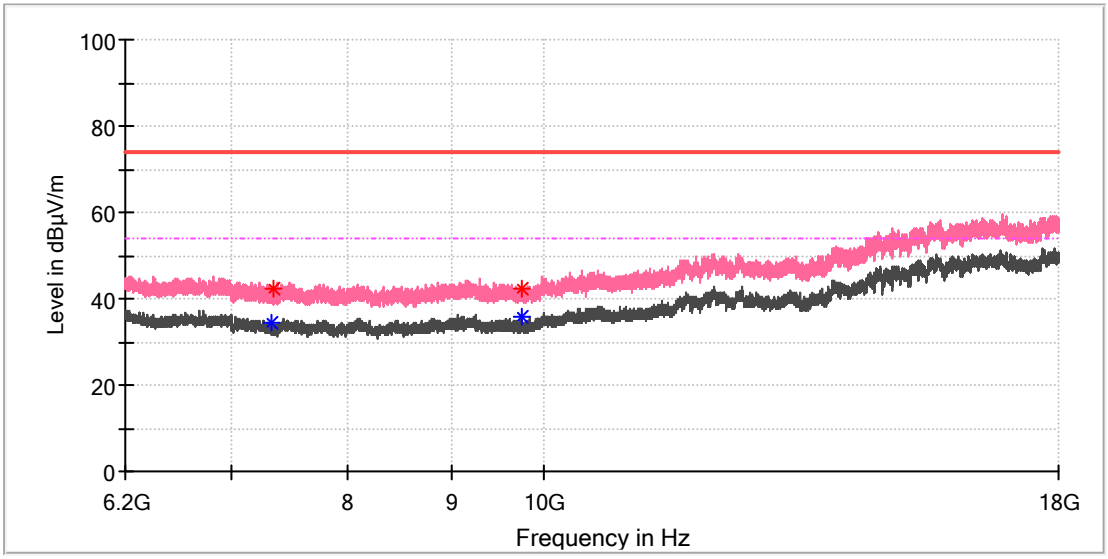
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7321.000000	---	34.66	54.00	19.34	150.0	H	0.0	8.2
7326.408333	41.79	---	74.00	32.21	150.0	H	357.0	8.2
9759.666667	42.19	---	74.00	31.81	150.0	H	357.0	10.4
9759.666667	---	36.43	54.00	17.57	150.0	H	357.0	10.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

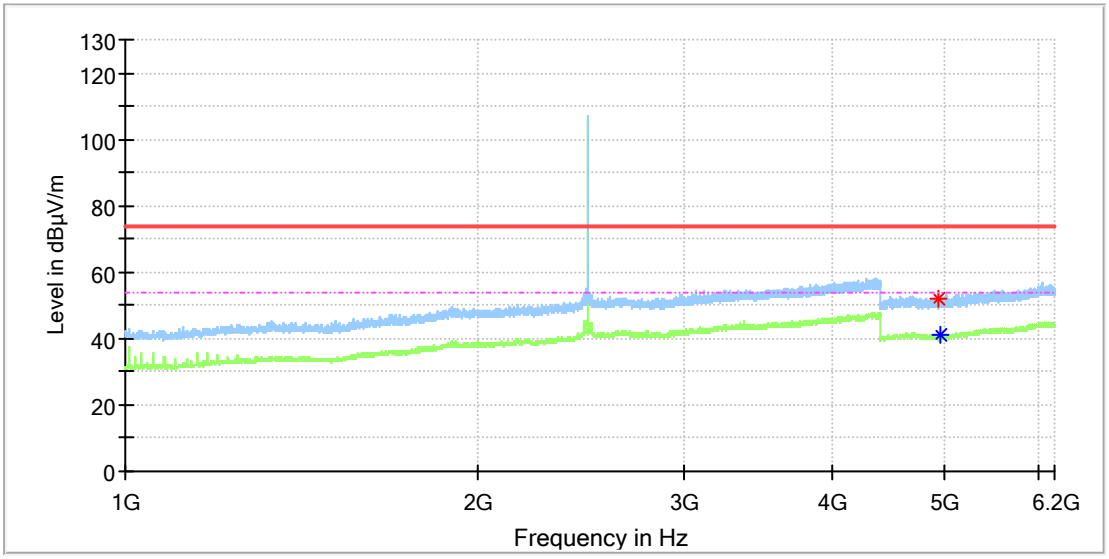
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7326.900000	---	34.27	54.00	19.73	150.0	V	0.0	8.1
7336.733333	42.34	---	74.00	31.66	150.0	V	295.0	8.1
9759.666667	42.51	---	74.00	31.49	150.0	V	24.0	10.4
9760.158333	---	35.81	54.00	18.19	150.0	V	183.0	10.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

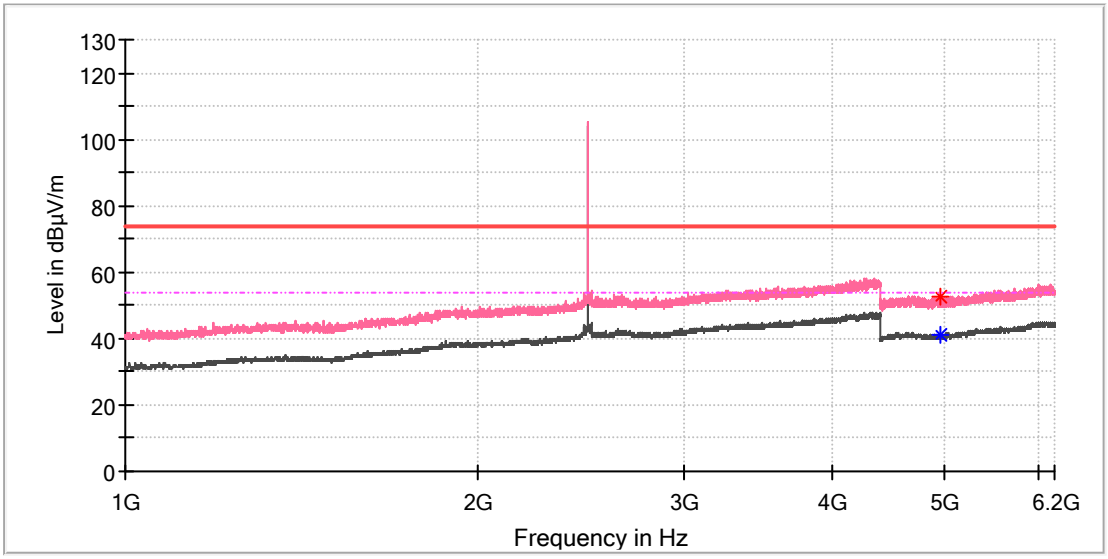
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4944.000000	52.16	---	74.00	21.84	150.0	H	197.0	13.3
4951.500000	---	41.30	54.00	12.70	150.0	H	190.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

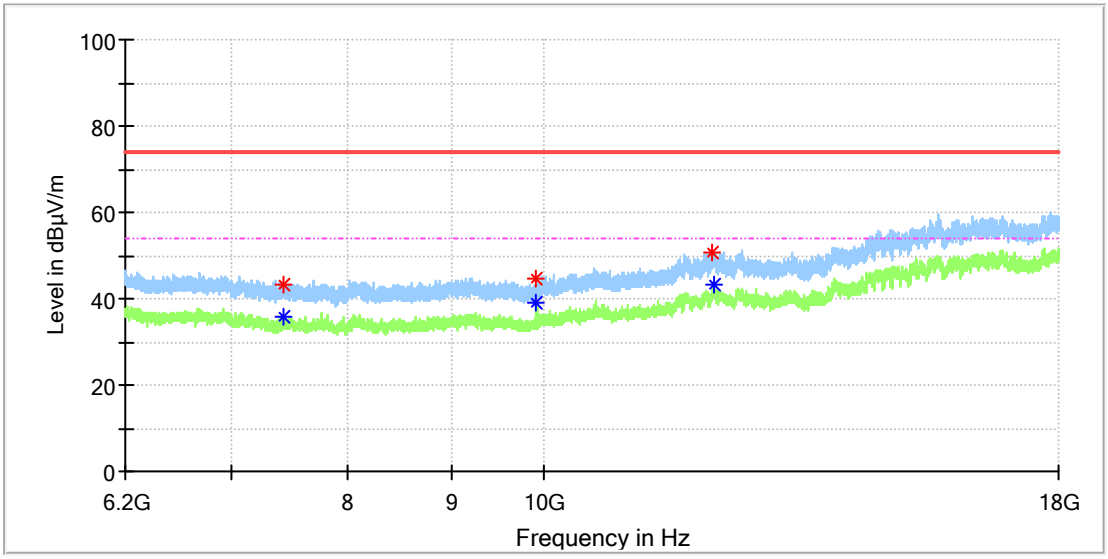
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4950.500000	---	41.32	54.00	12.68	150.0	V	177.0	13.3
4954.500000	52.38	---	74.00	21.62	150.0	V	104.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

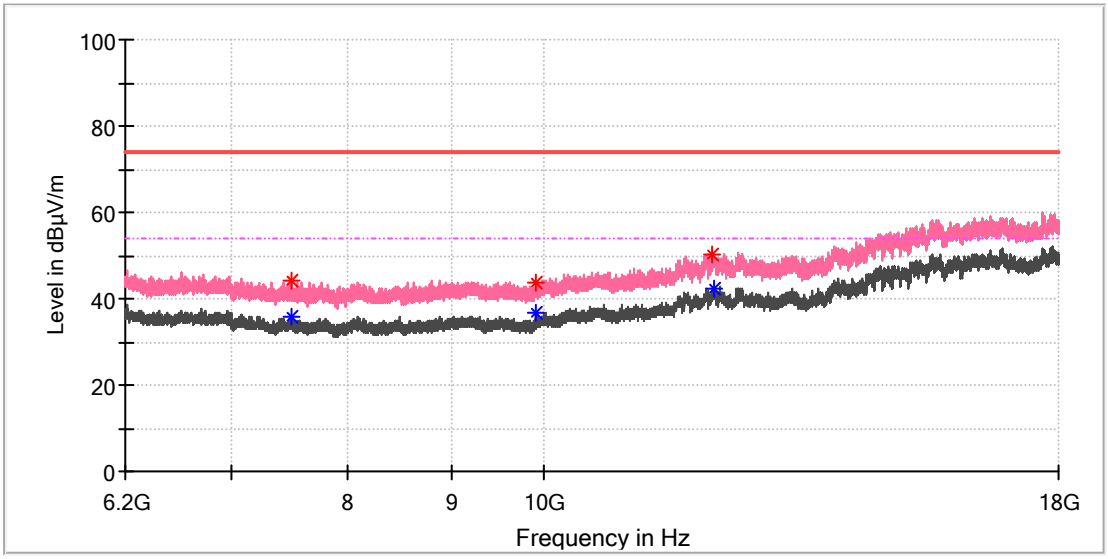
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7423.758333	43.48	---	74.00	30.52	150.0	H	214.0	8.4
7431.133333	---	36.03	54.00	17.97	150.0	H	336.0	8.4
9919.458333	---	39.16	54.00	14.84	150.0	H	43.0	10.8
9919.950000	44.63	---	74.00	29.37	150.0	H	55.0	10.8
12129.008333	50.57	---	74.00	23.43	150.0	H	292.0	16.2
12140.808333	---	43.03	54.00	10.97	150.0	H	325.0	16.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
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)
7489.641667	44.30	---	74.00	29.70	150.0	V	330.0	8.7
7492.591667	---	36.05	54.00	17.95	150.0	V	148.0	8.7
9919.950000	43.92	---	74.00	30.08	150.0	V	114.0	10.8
9919.950000	---	36.91	54.00	17.09	150.0	V	114.0	10.8
12124.091667	50.07	---	74.00	23.93	150.0	V	248.0	16.1
12148.675000	---	42.45	54.00	11.55	150.0	V	42.0	16.7

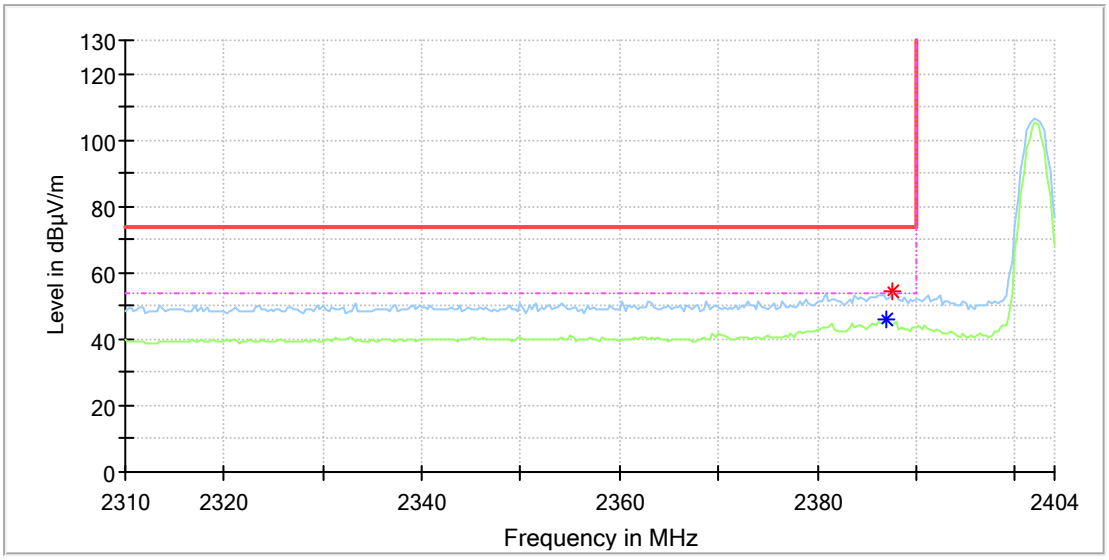
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

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

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

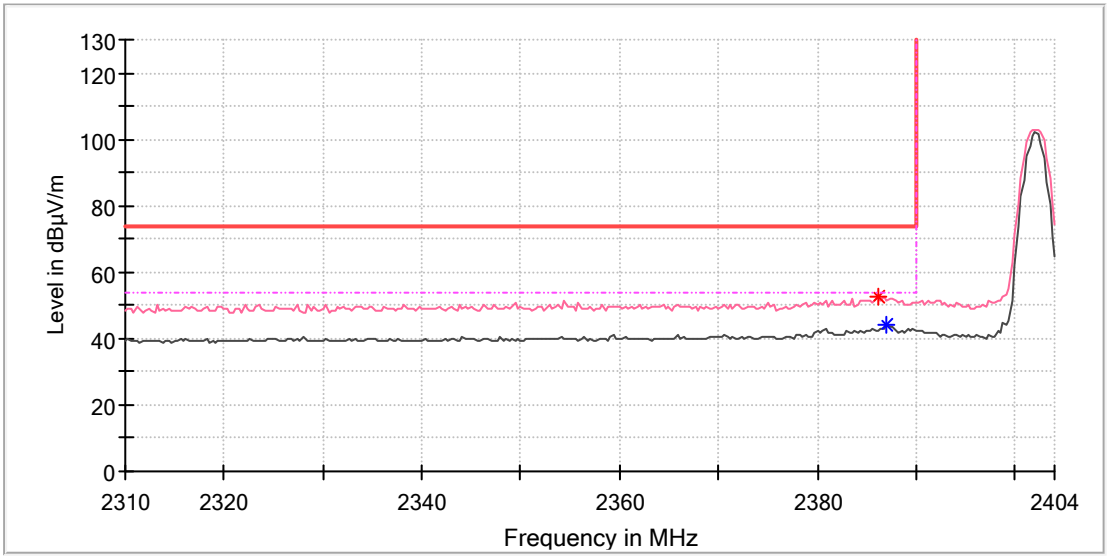
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.058824	---	45.67	54.00	8.33	150.0	H	176.0	8.5
2387.647059	54.36	---	74.00	19.64	150.0	H	145.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

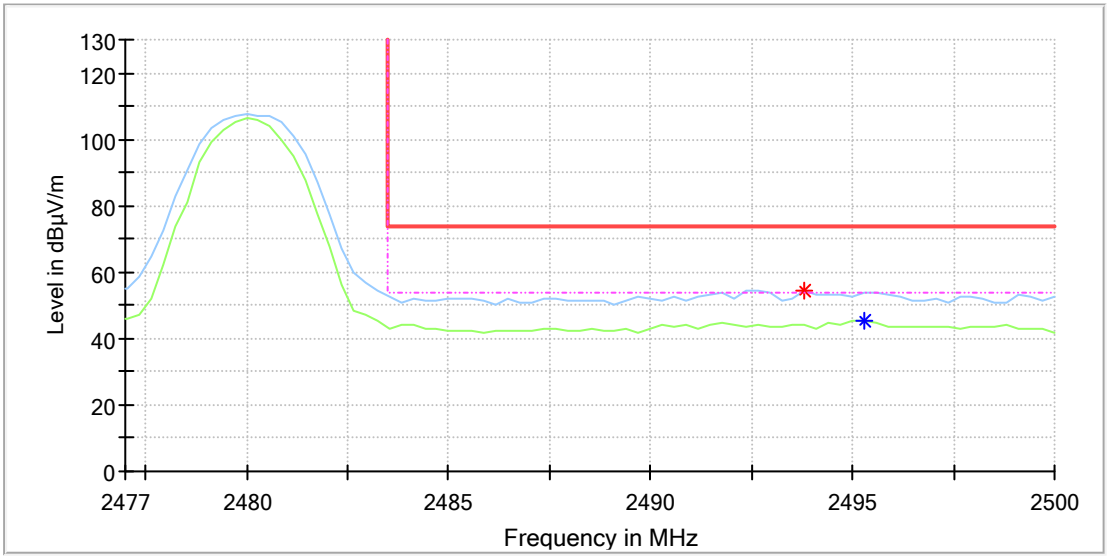
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.176471	52.74	---	74.00	21.26	150.0	V	112.0	8.5
2387.058824	---	44.06	54.00	9.94	150.0	V	133.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

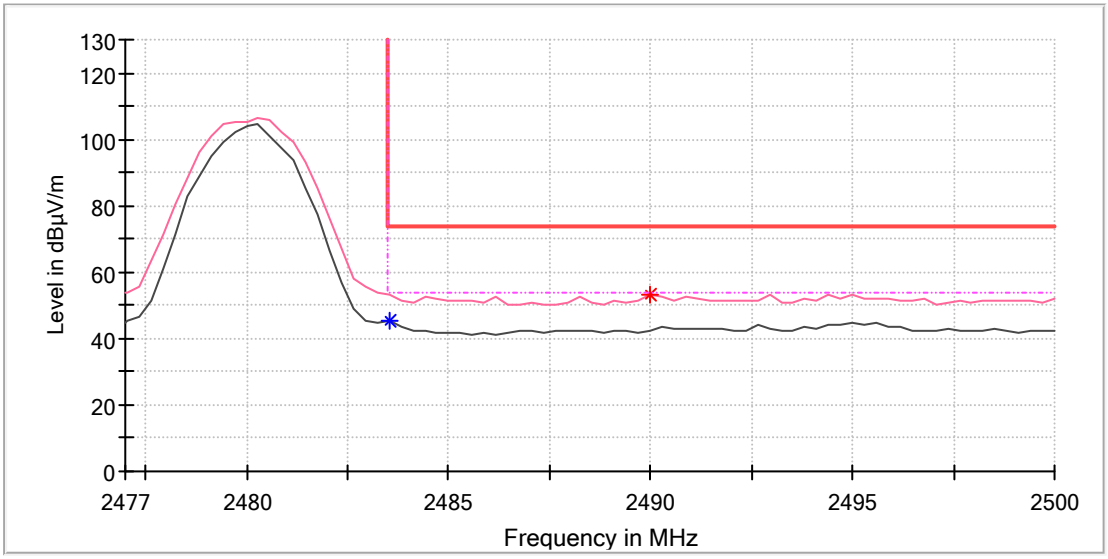
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2493.823529	54.53	---	74.00	19.47	150.0	H	132.0	9.0
2495.294118	---	45.50	54.00	8.50	150.0	H	142.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 1M_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

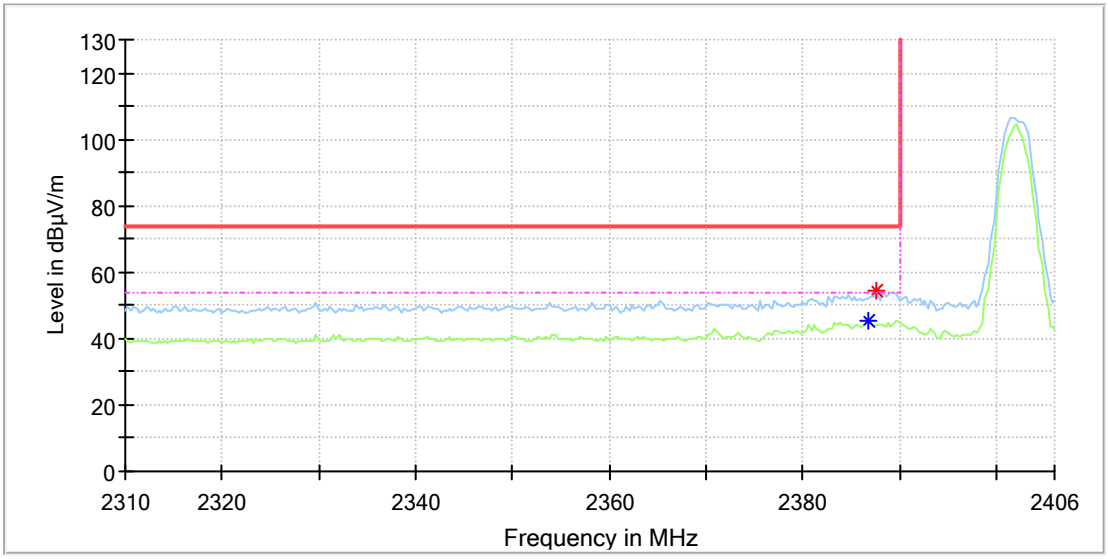
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	45.47	54.00	8.53	150.0	V	126.0	9.0
2490.000000	53.45	---	74.00	20.55	150.0	V	126.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

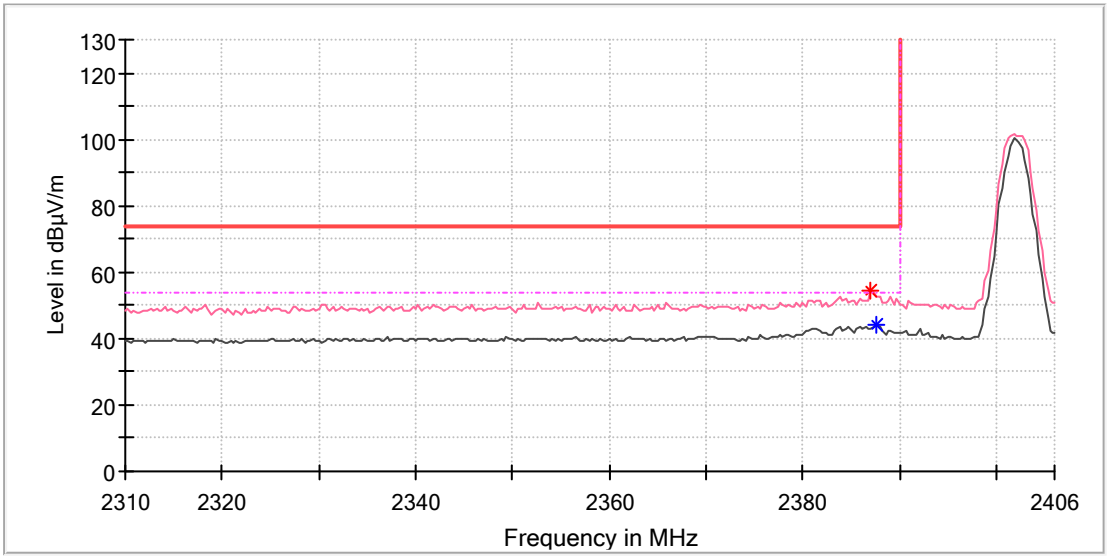
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.764706	---	45.27	54.00	8.73	150.0	H	118.0	8.5
2387.647059	54.49	---	74.00	19.51	150.0	H	118.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

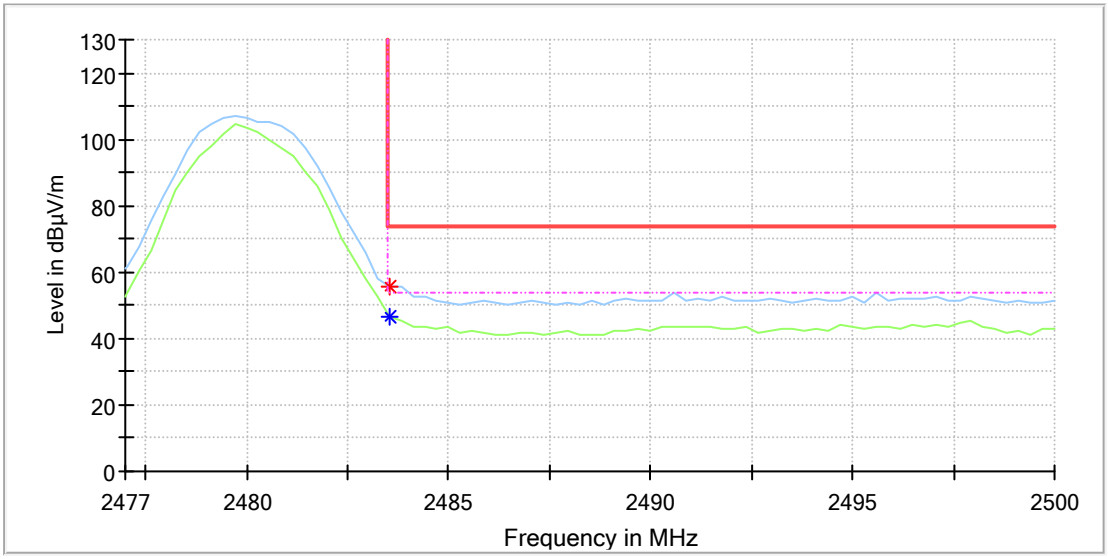
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.058824	54.35	---	74.00	19.65	150.0	V	49.0	8.5
2387.647059	---	43.92	54.00	10.08	150.0	V	128.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 2M_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

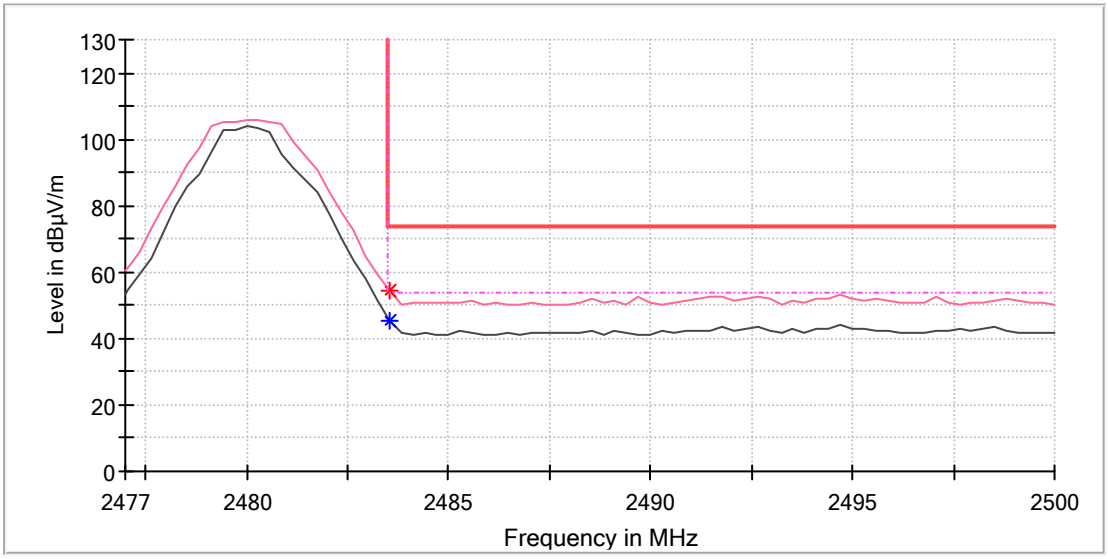
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	46.37	54.00	7.63	150.0	H	133.0	9.0
2483.529412	55.92	---	74.00	18.08	150.0	H	133.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Medium Portable Bluetooth Speaker
Model:	NS-BTSTM
Test Mode:	BLE 2M_High channel
Order No/Sample No:	27234703/A004278026-003
Test Voltage:	Battery
Remark:	Temp 23.5°C Humi:54%
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)
2483.529412	---	45.47	54.00	8.53	150.0	V	132.0	9.0
2483.529412	54.49	---	74.00	19.51	150.0	V	132.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---