

PRODUCTO JBL PARTYBOX ON THE GO ESSENTIAL (en todas sus versiones de colores)



Información comercial del equipo y del fabricante o importador en Chile:

- **Fecha:** 22 – FEBRERO - 2026
- **Nombre comercial del equipo:** JBL PARTYBOX ON THE GO ESSENTIAL
- **Fabricante:** Harman International Industries Inc.
- **Importador o representante en Chile:** Intcomex Chile -
- **Correo electrónico de contacto:** consultas@intcomex.com
- **Sitio web:** <https://store.intcomex.com/es-xcl/home>

	Información	Página / Documento
Tipo de equipo	Altavoz / Parlante Inalámbrico	
Marca	JBL	
Modelo	PARTYBOX ON THE GO ESSENTIAL	
Tecnología o modulación	Bluetooth® 4.2 A2DP 1.3, AVRCP 1.6 Transmisión micrófono inalámbrico UHF 65 Hz – 15 kHz	Página 2
Frecuencias	Bluetooth 2,4 GHz – 2,4835 GHz Transmisión micrófono inalámbrico UHF 470 – 960 MHz (dependiendo de los países/regiones)	Página 2
Ganancia de Antena (dBi)	2.003 dBi	Página 6 a 28
P.I.R.E	Bluetooth ≤ 10 dBm	
Módulos	GFSK, π/4 DQPSK, 8 DPSK	
Test Report	Informe de ensayo o test report	Página 6 a 28

Declaración de conformidad:

Por este medio se declara que el equipo previamente individualizado cumple con las disposiciones establecidas en la Norma Técnica de Equipos de alcance reducido, aprobada por la resolución exenta N° 1.985, de 2017 y resolución exenta N° 737 de 2025, de la Subsecretaría de Telecomunicaciones, se anexan ensayos de laboratorio y la documentación asociada.

Santiago de Chile
Febrero 2026.-



Características y ventajas

Increíble sonido JBL Pro

Encuentra tu ritmo con los 100 vatios del potente y explosivo sonido JBL Pro. Ya sea en el interior o en el exterior, JBL PartyBox On-The-Go Essential ofrece agudos nitidos, medios puros y bajos profundos, con Bass Boost para mantener los buenos momentos durante toda la noche.

Espectáculo de luces sincronizado

Ilumina la fiesta y a tus invitados con las luces dinámicas que se sincronizan con la música. Elige entre una variedad de patrones preestablecidos y deja que los colores se adapten a la música mientras te concentras en las melodías.

Micrófono inalámbrico JBL incluido

JBL PartyBox On-The-Go Essential viene con un micrófono inalámbrico JBL con un alcance de hasta 10 metros.

Ajustes de rendimiento avanzados para afinar la voz

Transmite tus melodías favoritas a través de Bluetooth y, a continuación, canta con el micrófono y afina los bajos, los agudos y el eco para obtener el efecto vocal adecuado.

Protección contra salpicaduras IPX4

Fiestas en la playa, fiestas en la piscina o bailes bajo la lluvia. La protección resistente a salpicaduras IPX4 mantiene tu JBL PartyBox On-The-Go Essential seguro cuando tu fiesta se moja un poco.

Cómoda correa de hombro para mantener la fiesta en movimiento

JBL PartyBox On-The-Go Essential tiene todo lo que necesitas para pasar un buen rato, incluyendo un abridor de botellas en la correa del hombro para que puedas disfrutar de tus bebidas favoritas mientras te diviertes toda la noche.

6 horas de tiempo de reproducción

La batería recargable integrada ofrece un tiempo de reproducción de hasta 6 horas

Si son dos, el sonido será aún más fuerte

100 vatios es fuerte, pero puede llegar a ser aún más fuerte. Conecta hasta dos altavoces de fiesta compatibles con conexiones Bluetooth True Wireless Stereo (TWS).

Entradas plug-n-play para micrófono y guitarra

Las entradas de micrófono y guitarra integradas te permiten conectarte directamente al altavoz para cantar o rasguear tus canciones favoritas o crear las tuyas propias.

Reproducción continua Bluetooth

Desde listas de reproducción hasta mezclas de DJ, reproduce más de las canciones que te gustan dondequiera que te lleve la noche. JBL PartyBox On-The-Go Essential funciona con cualquier dispositivo con Bluetooth, facilitando el acceso a tus bibliotecas de música favoritas y a los servicios de transmisión en línea.

Conecte tu lista de reproducción

¿No hay música por Bluetooth? No hay problema. Solo tienes que poner las listas de reproducción más importantes en una unidad USB y conectarlas al puerto USB incorporado para reproducir música en cualquier lugar, sin perder el ritmo.

Especificaciones técnicas

- ▶ Transductores: 1 altavoz de 133 mm, 2 altavoces de agudos de 44 mm
- ▶ Potencia de salida: 100 W RMS
- ▶ Potencia de entrada: 100 - 240 V ~ 50/60 Hz
- ▶ Respuesta de frecuencia: 50 Hz - 20 kHz (-6 dB)
- ▶ Relación señal/ruido: >80 dB
- ▶ Tipo de batería: Polímero de ion de litio de 18 Wh (equivalente a 7,2 V/2500 mAh)
- ▶ Tiempo de carga de la batería: 3,5 horas
- ▶ Tiempo de reproducción de música: hasta 6 horas (dependiendo del volumen y del contenido del audio)
- ▶ Tipo de cable: Cable de alimentación de CA (el tipo varía según la región)
- ▶ Longitud del cable: 1,5 m
- ▶ Salida de carga USB: 5 V/0,5 A (máx.)
- ▶ Formato USB: FAT16, FAT32
- ▶ Versión de Bluetooth: 4.2
- ▶ Perfil Bluetooth: A2DP V1.3, AVRCP V1.8
- ▶ Rango de frecuencia del transmisor Bluetooth: 2,4 GHz - 2,4835 GHz
- ▶ Potencia del transmisor Bluetooth®: ≤10 dBm (EIRP)
- ▶ Modulación del transmisor Bluetooth: GFSK, π/4 DQPSK, 8 DPSK
- ▶ Formatos compatibles: .mp3, .wma, .wav
- ▶ Sensibilidad de entrada: Entrada auxiliar: 370 mV rms (conector de 3,5 mm)
- ▶ Entrada de micrófono: 20 mV rms
- ▶ Entrada de guitarra: 100 mV rms
- ▶ Entrada Bluetooth/USB: -12 dBFS
- ▶ Dimensiones del producto (An x Al x P): 490 x 245 x 228 mm
- ▶ Peso neto: 6,1 kg
- ▶ Dimensiones del embalaje (ancho x alto x prof.): 541 x 277 x 350 mm
- ▶ Peso bruto: 7,9 kg

Especificaciones del micrófono inalámbrico

- ▶ Respuesta de frecuencia: 65 Hz - 15 kHz
- ▶ Relación señal/ruido: >60 dBA
- ▶ Banda de frecuencia UHF: 470-960 MHz (dependiendo de los países/regiones)
- ▶ Potencia de transmisión del transmisor: <10 mW
- ▶ Tiempo de reproducción de la batería del micrófono: >10 h
- ▶ Distancia entre el transmisor y el receptor: >10 m

Contenido de la caja

- 1 JBL PartyBox On-The-Go Essential
- 1 micrófono inalámbrico
- 1 guía de inicio rápido
- 1 manual de instrucciones de seguridad y tarjeta de garantía
- Cable de alimentación de CA - El número de cables y el tipo de enchufe varían según la región.

TCB**GRANT OF EQUIPMENT
AUTHORIZATION****TCB**

Certification
Issued Under the Authority of the
Federal Communications Commission
By:

CTC advanced GmbH
Untertuerkheimer Strasse 6-10
66117 Saarbruecken,
Germany

Date of Grant: 09/21/2023

Application Dated: 09/21/2023

Harman International Industries, Inc
8500 Balboa Boulevard
Northridge, CA 91329

Attention: Terry Shi , Prin.Engineer,Regulatory Compliance,
Quality

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is
VALID ONLY for the equipment identified hereon for use under the Commission's Rules
and Regulations listed below.

FCC IDENTIFIER: APIPARTYBOXOTG
Name of Grantee: Harman International Industries, Inc
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: Bluetooth Speaker

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	15C	2402.0 - 2480.0	0.0042		

Class II Permissive change: Add model PARTYBOX OTG Essential. Change the non-RF components on the mainboard.

Output power listed is peak conducted. RF exposure compliance is addressed for 1.1310 and 2.1091 MPE limits. Integrators and End Users must be provided with transmitter operation conditions for satisfying RF exposure compliance.



TECHNICAL ACCEPTANCE CERTIFICATE - CANADA

Certificate Holder	Harman International Industries, Inc. 8500 Balboa Boulevard Northridge, CA 91329 UNITED STATES
ISED Certification Number	6132A-PARTYBOXOTG
Product Description	Bluetooth Speaker
CTC advanced Registration No.	23-1-0134401T001
OATS Facility	Dongguan Dongshan Testing Service Co., Ltd No.17,ZongbuRoad2,SongshanLakeSci&Tech -- Dongguan China (Peoples Republic Of) Phone:086-0769-22891499 Fax: --
OATS Facility ID	10288A

Certification of equipment means only that the equipment has met the requirements of the above-noted specification. License applications, where applicable to use certified equipment, are acted on accordingly by the ISED issuing office and will depend on the existing radio environment, service and location of operation. This certificate is issued on condition that the holder complies and will continue to comply with the requirements and procedures issued by ISED. The equipment for which this certificate is issued shall not be manufactured, imported, distributed, leased, offered for sale or sold unless the equipment complies with the applicable technical specifications and procedures issued by ISED.

La certification du matériel signifie seulement que le matériel a satisfait aux exigences de la norme indiquée ci-dessus. Les demandes de licences nécessaires pour l'utilisation du matériel certifié sont traitées en conséquence par le bureau de délivrance d'ISDE et dépendent des conditions radio ambiantes, du service et de l'emplacement d'exploitation. Le présent certificat est délivré à la condition que le titulaire satisfasse et continue de satisfaire aux exigences et aux procédures d'ISDE. Le matériel à l'égard duquel le présent certificat est délivré ne doit pas être fabriqué, importé, distribué, loué, mis en vente ou vendu à moins d'être conforme aux procédures et aux spécifications techniques applicables publiées par ISDE.

*I hereby attest that the subject equipment was tested and found in compliance with the above-noted specification.
J'atteste par la présente que le matériel a fait l'objet d'un essai et jugé conforme à la spécification ci-dessus.*

Place, date of issue

Saarbruecken, 2023-09-21

CTC advanced GmbH

Hu Anmin / FCB

Hardware Version ID No.	Product Marketing Name	Firmware Version ID No.	Host Marketing Name
PARTYBOX OTG	Bluetooth Speaker	N/A	N/A
PARTYBOX OTG Essential	Bluetooth Speaker	N/A	N/A

Equipment Categories Audio - Sound System

Antenna Information PCB antenna

Standard	Frequency Range	Emission Designator	RF Power or Field Strength	Remarks
RSS247 Non-DFS, Issue 3 Aug 2023	2402 MHz - 2480 MHz	882KFXD	0.0042 W	BT
RSS247 Non-DFS, Issue 3 Aug 2023	2402 MHz - 2480 MHz	1M18GXD	0.0023 W	BT
RSS247 Non-DFS, Issue 3 Aug 2023	2402 MHz - 2480 MHz	1M17GXD	0.0028 W	BT

NOTE: The HVN and ISED certification number shall be permanently indicated on the exterior of the product or displayed electronically according to e-labelling requirements in RSS-Gen

REMARKS: Class II Permissive change: Add model PARTYBOX OTG Essential, Change the non-RF components on the mainboard.

■ **Report No.:** DDT-RE23082421-2E01■ **Issued Date:** Sep. 05, 2023

FCC AND ISED CERTIFICATION TEST REPORT

FOR

Applicant	:	Harman International Industries, Inc.
Address	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
Equipment under Test	:	Bluetooth Speaker
Model No.	:	PARTYBOX OTG, PARTYBOX OTG Essential
Trade Mark	:	JBL
FCC ID	:	APIPARTYBOXOTG
IC	:	6132A-PARTYBOXOTG
Manufacturer	:	Harman International Industries, Inc.
Address	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,
Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, **E-mail:** ddt@dgddt.com, <http://www.dgddt.com>

REPORT

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Dongguan Dongdian Testing Service Co., Ltd.

Report No.: DDT-RE23082421-2E01

Test Report Declare

Applicant	:	Harman International Industries, Inc.
Address	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
Equipment under Test	:	Bluetooth Speaker
Model No.	:	PARTYBOX OTG, PARTYBOX OTG Essential
Trade Mark	:	JBL
Manufacturer	:	Harman International Industries, Inc.
Address	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 2 February 2017.

Test Procedure Used:

ANSI C63.10:2013, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&ISED standards.

Report No.:	DDT-RE23082421-2E01		
Date of Receipt:	Aug. 25, 2023	Date of Test:	Aug. 25, 2023 ~ Sep. 05, 2023

Prepared By:

Johnny Wang/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Dongguan Dongdian Testing Service Co., Ltd.

Report No.: DDT-RE23082421-2E01

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Sep. 05, 2023	

1. Summary of Test Results

Description of Test Item	Standard	Verdict
Radiated Emission	FCC Part 15: 15.205 FCC Part 15: 15.209 FCC Part 15: 15.247(d) RSS-247 Issue 2 clause 5.5 RSS-Gen Issue 5 clause 8.9 RSS-Gen Issue 5 clause 8.10	Pass
Power Line Conducted Emissions	FCC Part 15: 15.207(a) RSS-Gen Issue 5 clause 8.8	Pass
<p>Note:</p> <p>1. This report adds one model (PARTYBOX OTG Essential) on the basis of the report DDT-R22042507-2E01, this change based on engineering judgment that only Radiated Emission (below 1 GHz) and Power Line Conducted Emissions need to test.</p> <p>2. Please refer to report DDT-R22042507-2E01 for the other original data.</p>		

2. General Test Information

2.1. Description of EUT

EUT Name	: Bluetooth Speaker
Model Number	: PARTYBOX OTG, PARTYBOX OTG Essential
Difference of models	: The RF part of the above models are identical in schematic and structure, except the product model number, appearance and the differences list in Chapter 2.4.
EUT function description	: Please reference user manual of this device
Power supply	: AC 100-240V, 50/60Hz built-in battery
Radio Specification	: Bluetooth V4.2
Operation frequency	: 2402 MHz - 2480 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Data rate	: 1 Mbps, 2 Mbps, 3 Mbps
Antenna Type	: PCB antenna, maximum PK gain: 2.003 dBi
Sample Number	: S23061604-03

Note 1: EUT is the ab. of equipment under test.

Note 2: "☒" means to be chosen or applicable; "☐" means don't to be chosen or not applicable; This note applies to entire report.

Channel information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	27	2429	54	2456
1	2403	28	2430	55	2457
2	2404	29	2431	56	2458
3	2405	30	2432	57	2459
4	2406	31	2433	58	2460
5	2407	32	2434	59	2461
6	2408	33	2435	60	2462
7	2409	34	2436	61	2463
8	2410	35	2437	62	2464
9	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

Dongguan Dongdian Testing Service Co., Ltd.

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2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
AC Cable	Harman International Industries, Inc	N/A	N/A	Length: 1.42m, unshielded
MIC	Harman	N/A	N/A	Wireless MIC

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
N/A	N/A	N/A	N/A	N/A

2.4. Model difference

The difference between PARTYBOX OTG and PARTYBOX OTG Essential:		
Material name	PARTYBOX OTG	PARTYBOX OTG Essential
Main Board UBX1	USB output: 5V 2.1A	USB output: 5V 0.5A Change the USB layout
Charging IC	TPS2546+LP5304A	JW7111S
LDO IC (U4)	SGM2036-ADJYN5G/TR	ETA5050V0S2F

2.5. Block diagram of EUT configuration for test



Test software: BlueTest3.exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Tested mode, channel, information			
Mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK hopping on Tx mode	/	CH0 to CH78	2402 to 2480
$\pi/4$ -DQPSK hopping on Tx mode	/	CH0 to CH78	2402 to 2480
8DPSK hopping on Tx mode	/	CH0 to CH78	2402 to 2480
GFSK hopping off Tx mode	/	CH0	2402
	/	CH39	2441
	/	CH78	2480
$\pi/4$ -DQPSK hopping off Tx mode	/	CH0	2402
	/	CH39	2441
	/	CH78	2480
8DPSK hopping off Tx mode	/	CH0	2402
	/	CH39	2441
	/	CH78	2480

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2.6. Deviations of test standard

No deviation.

2.7. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.8. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,
Guangdong Province, China, 523808.Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2.9. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7 x 10 ⁻⁸ (Antenna couple method)
	5.5 x 10 ⁻⁸ (Conducted method)
Conducted spurious emissions	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.40 dB (3.6 GHz ≤ f < 8 GHz)
	1.66 dB (8 GHz ≤ f < 26.5 GHz)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10 ⁻⁸
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Dongguan Dongdian Testing Service Co., Ltd.

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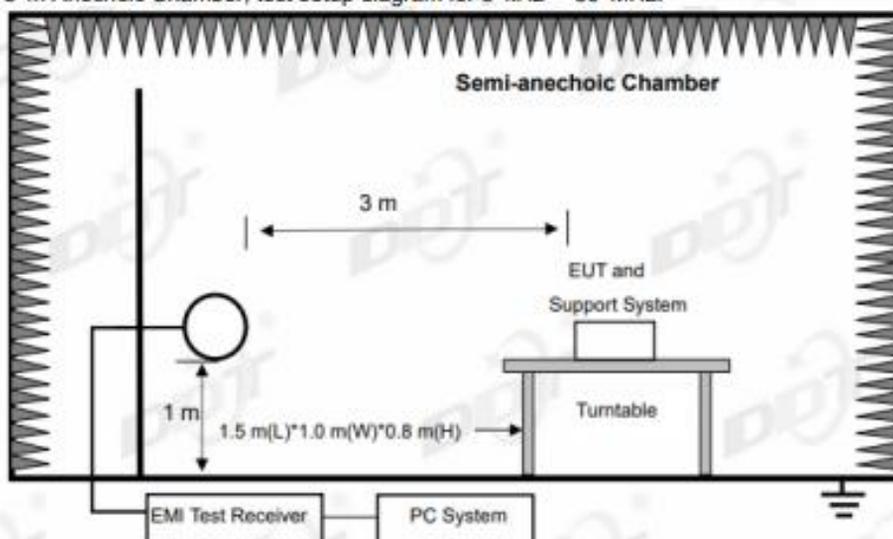
3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☑Radiation 3#chamber					
EMI Test Receiver	R&S	ESU26	100472	Apr. 23, 2023	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Apr. 23, 2023	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 29, 2022	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Jul. 12, 2023	2 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120 D	02468	Sep. 29, 2022	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	Apr. 26, 2023	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Jul. 15, 2023	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Apr. 27, 2023	1 Year
RE Cable	N/A	W23.02 CP1-X2 + W23.09 AP1-X8+ JCT26S-NJ- NJ-1.5M	4.5M+8M+1.5M	Apr. 21, 2023	1 Year
RF Cable	Yuhu Technology	JCTB810-NJ- NJ-9M+ ZT26S-SMAJ -SMAJ-1M	21123964	Apr. 23, 2023	1 Year
Micro-Tronics filters	REBES	BRM50702	G555	N/A	N/A
Micro-Tronics filters	REBES	BRM50716	G392	N/A	N/A
High Pass filter	XB	XBLBQ-GTA 67	210820-2-3	N/A	N/A
Test software	Tonscend	JS32-RE	V 5.0.0.1	N/A	N/A
☑Power Line Conducted Emissions Test 1#					
Test Receiver	R&S	ESCI	100551	Jul. 11, 2023	1 Year
LISN 1	R&S	ENV216	101109	Jul. 11, 2023	1 Year
LISN 2	R&S	ESH2-Z5	100309	Jul. 12, 2023	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Jul. 15, 2023	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Jul. 15, 2023	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

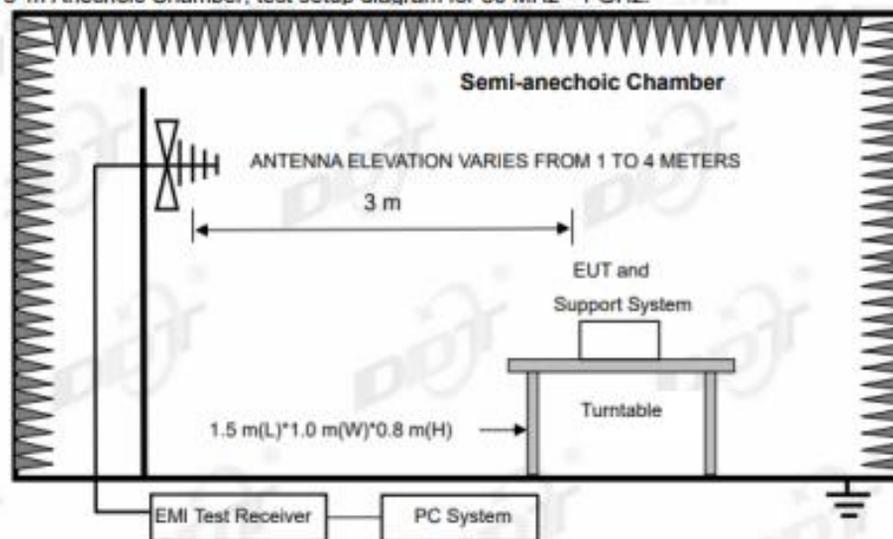
4. Radiated Emission

4.1. Block diagram of test setup

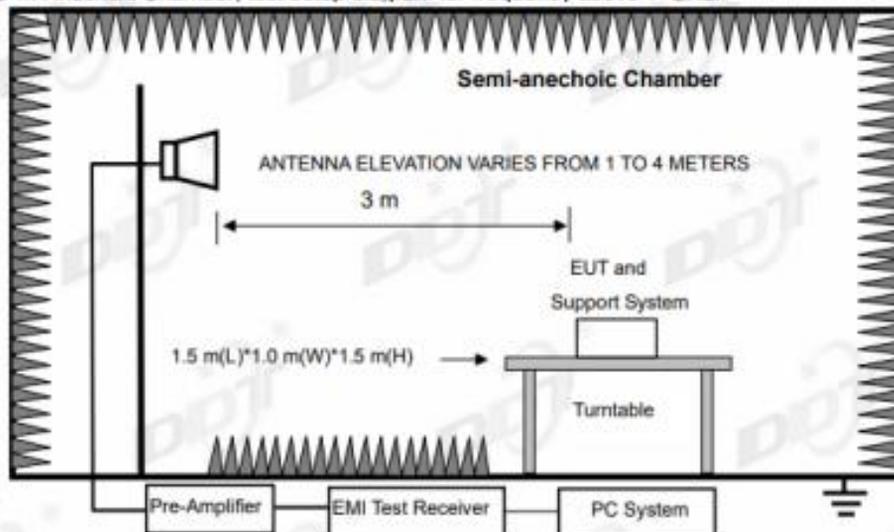
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

4.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

²Above 38.6

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit & RSS-Gen section 8.9 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\text{Log}(30m/3m)$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

4.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.
- (2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna (1 GHz - 18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna (18 GHz - 40 GHz)	1 m

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

- (b) Change work frequency or channel of device if practicable.

- (c) Change modulation type of device if practicable.

- (d) Change power supply range from 85% to 115% of the rated supply voltage

- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was

investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.
- (5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

- (7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.
- (8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

5. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits and RSS-Gen section 8.9 limits.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: 30 MHz ~ 25 GHz: (Scan with GFSK, $\pi/4$ -DQPSK and 8DPSK, the worst case is GFSK Mode)

Note3: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in GFSK, Tx 2402 MHz mode.

Note4: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

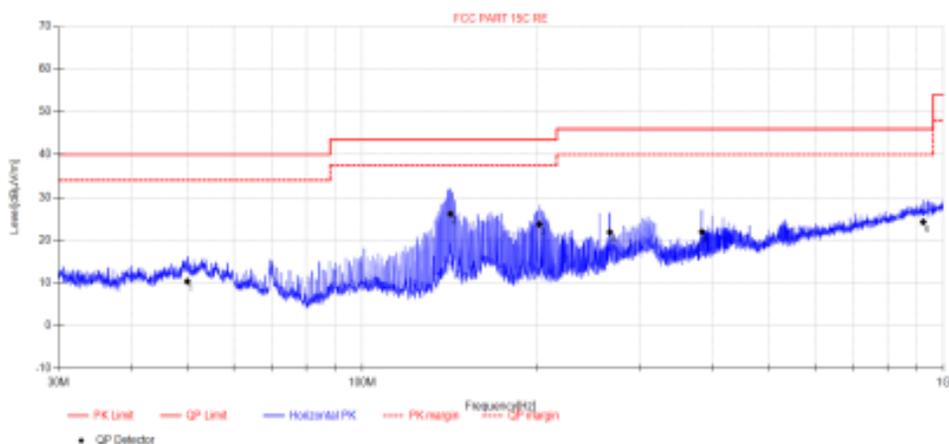
Radiated Emission test (below 1 GHz)

Dongguan Dongdian Testing Service Co., Ltd.

Report No.: DDT-RE23082421-2E01

TR-4-E-009 Radiated Emission Test Result

Test Date:	2023-08-25	Tested By:	Bairong
EUT:	Bluetooth Speaker	Model Number:	PARTYBOX OTG Essential
Test Mode:	TX Mode	Power Supply:	AC 120V/60Hz
Condition:	Temp:21.2°C;Humi:63.5%	Test Site:	DDT 3# Chamber
File Path:	d:\ts\2023 report data\Q23082421-2E\FCC BELOW 1G\20230825-164724_H		
Memo:	BT		



Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	49.98	23.23	13.10	4.73	-30.70	10.36	40.00	29.64	QP	Horizontal
2	141.78	44.26	7.40	5.28	-30.77	26.17	43.50	17.33	QP	Horizontal
3	201.74	37.84	10.73	5.74	-30.59	23.72	43.50	19.78	QP	Horizontal
4	266.68	33.62	12.63	6.01	-30.40	21.86	46.00	24.14	QP	Horizontal
5	384.01	30.38	15.08	6.61	-30.13	21.94	46.00	24.06	QP	Horizontal
6	923.18	22.12	22.50	8.42	-28.79	24.25	46.00	21.75	QP	Horizontal

Note:

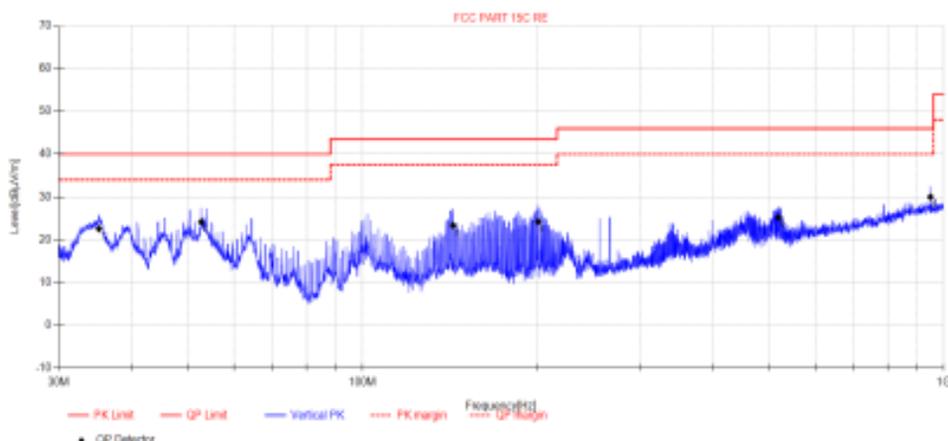
1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Dongguan Dongdian Testing Service Co., Ltd.

Report No.: DDT-RE23082421-2E01

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-08-25 **Tested By:** Bairong
EUT: Bluetooth Speaker **Model Number:** PARTYBOX OTG Essential
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:21.2°C;Humi:63.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082421-2E\FCC BELOW 1G\20230825-164805_V
Memo: BT

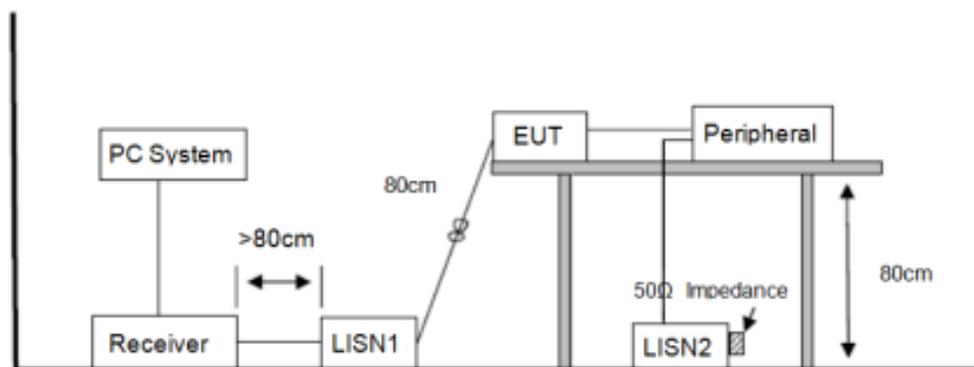


Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	35.18	38	10.95	4.54	-30.92	22.57	40.00	17.43	QP	Vertical
2	52.75	37.17	12.92	4.74	-30.68	24.15	40.00	15.85	QP	Vertical
3	143.08	41.44	7.40	5.29	-30.77	23.36	43.50	20.14	QP	Vertical
4	200.47	38.39	10.71	5.73	-30.60	24.23	43.50	19.27	QP	Vertical
5	519.50	30.8	17.29	7.01	-29.90	25.20	46.00	20.80	QP	Vertical
6	948.77	27.38	22.68	8.51	-28.56	30.01	46.00	15.99	QP	Vertical

- Note:
1. Result Level = Reading + Cable loss + Antenna Factor + AMP
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

6. Power Line Conducted Emission

6.1. Block diagram of test setup



6.2. Power line conducted emission limits

Frequency	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

6.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

Dongquan Dongdian Testing Service Co., Ltd.

Report No.: DDT-RE23082421-2E01

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

6.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "—" means Peak detection; "—" means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

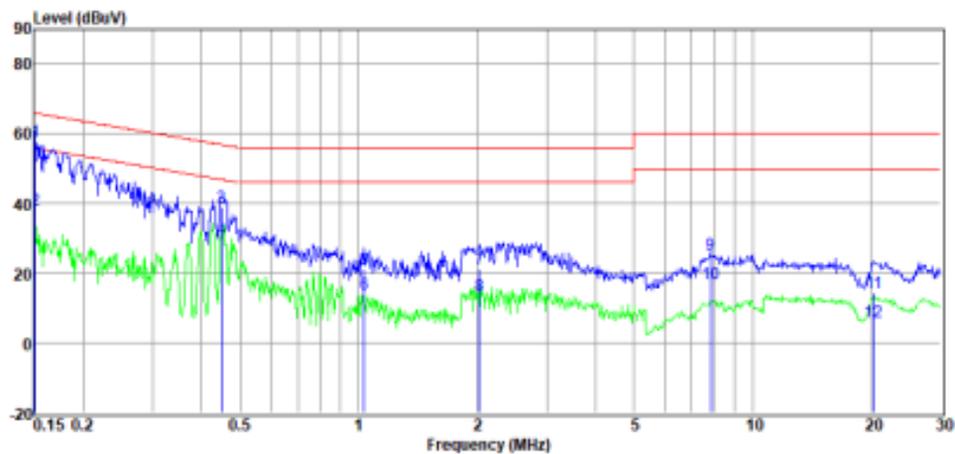
Dongguan Dongdian Testing Service Co., Ltd.

Report No.: DDT-RE23082421-2E01

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:	: 2023 CE report data\Q23082421 OTG\FCC.EM8
Test Date	: 2023-08-28	Tested By	: Johnson Huang
EUT	: Bluetooth Speaker	Model Number	: PARTYBOX OTG Essential
Power Supply	: AC 120V/60Hz	Test Mode	: TX mode
Condition	: TEMP:22.6°C, RH:56.7%	LISN	: 2022 1# ENV216/LINE
Memo	: BT		

Data: 2



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Detector	Phase
1	0.15	38.34	9.60	0.01	9.94	57.89	65.96	-8.07	QP	LINE
2	0.15	18.53	9.60	0.01	9.94	38.08	55.96	-17.88	Average	LINE
3	0.45	19.45	9.71	0.01	9.92	39.09	56.89	-17.80	QP	LINE
4	0.45	10.44	9.71	0.01	9.92	30.08	46.89	-16.81	Average	LINE
5	1.03	1.95	9.50	0.02	9.91	21.38	56.00	-34.62	QP	LINE
6	1.03	-5.59	9.50	0.02	9.91	13.84	46.00	-32.16	Average	LINE
7	2.02	1.72	9.60	0.03	9.90	21.25	56.00	-34.75	QP	LINE
8	2.02	-8.01	9.60	0.03	9.90	13.52	46.00	-32.48	Average	LINE
9	7.81	5.89	9.57	0.08	9.93	25.47	60.00	-34.53	QP	LINE
10	7.81	-2.40	9.57	0.08	9.93	17.18	50.00	-32.82	Average	LINE
11	20.27	-5.22	9.51	0.14	9.94	14.37	60.00	-45.63	QP	LINE
12	20.27	-13.41	9.51	0.14	9.94	6.18	50.00	-43.82	Average	LINE

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

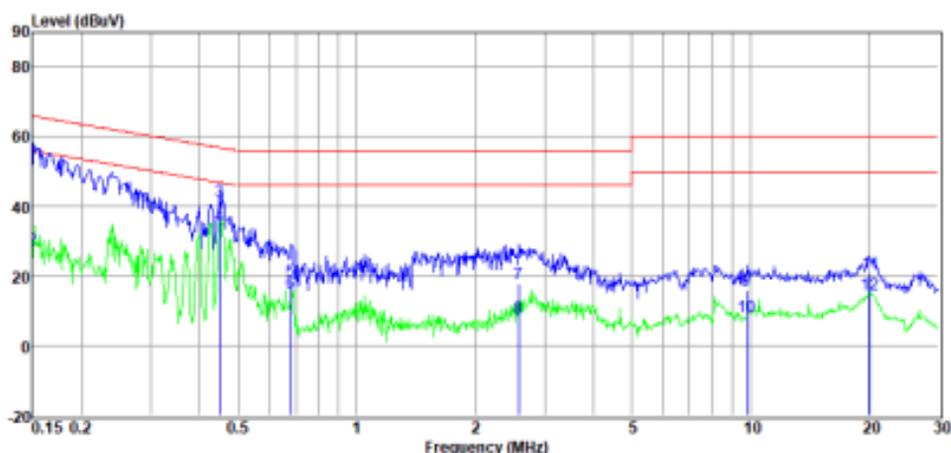
Dongguan Dongdian Testing Service Co., Ltd.

Report No.: DDT-RE23082421-2E01

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	Data	: 2023 CE report data\Q23082421 OTG\FCC.EM6
Test Date	: 2023-08-28	Tested By	: Johnson Huang
EUT	: Bluetooth Speaker	Model Number	: PARTYBOX OTG Essential
Power Supply	: AC 120V/60Hz	Test Mode	: TX mode
Condition	: TEMP:22.6°C, RH:56.7%	LISN	: 2022 1# ENV216/NEUTRAL
Memo	: BT		

Data: 4

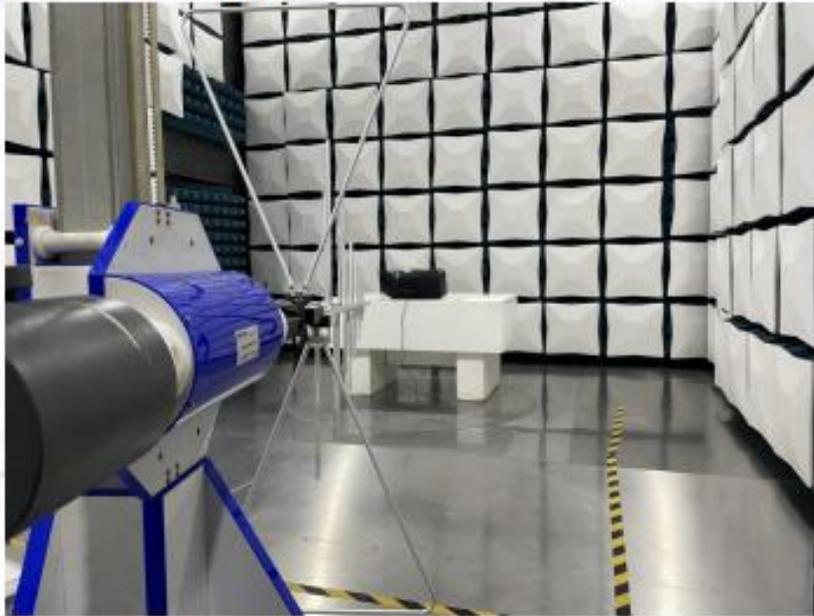


Item (Mark)	Freq. (MHz)	Read Level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Detector	Phase
1	0.15	34.10	9.80	0.01	9.94	53.85	66.00	-12.15	QP	NEUTRAL
2	0.15	7.81	9.80	0.01	9.94	27.56	56.00	-28.44	Average	NEUTRAL
3	0.45	21.95	9.64	0.01	9.92	41.52	56.89	-15.37	QP	NEUTRAL
4	0.45	14.69	9.64	0.01	9.92	34.26	46.89	-12.63	Average	NEUTRAL
5	0.68	-1.13	9.78	0.01	9.92	18.58	56.00	-37.42	QP	NEUTRAL
6	0.68	-4.51	9.78	0.01	9.92	15.20	46.00	-30.80	Average	NEUTRAL
7	2.58	-1.83	9.70	0.04	9.90	17.81	56.00	-38.19	QP	NEUTRAL
8	2.58	-11.53	9.70	0.04	9.90	8.11	46.00	-37.89	Average	NEUTRAL
9	9.76	-4.08	9.79	0.09	9.96	15.76	60.00	-44.24	QP	NEUTRAL
10	9.76	-11.59	9.79	0.09	9.96	8.25	50.00	-41.75	Average	NEUTRAL
11	20.16	1.02	9.80	0.14	9.94	20.90	60.00	-39.10	QP	NEUTRAL
12	20.16	-5.11	9.80	0.14	9.94	14.77	50.00	-35.23	Average	NEUTRAL

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

7. Test Setup Photograph



Dongguan Dongdian Testing Service Co., Ltd.

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8. Photos of the EUT

Please refer to appendix I.

END OF REPORT