

# FCC AND ISED CERTIFICATION TEST REPORT

FOR

<b>Applicant</b>	:	Harman International Industries, Inc.
<b>Address</b>	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
<b>Equipment under Test</b>	:	Portable Bluetooth Speaker
<b>Model No.</b>	:	FLIP6T
<b>Trade Mark</b>	:	JBL
<b>FCC ID</b>	:	APIJBLFLIP6T
<b>Manufacturer</b>	:	Harman International Industries, Inc.
<b>Address</b>	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES

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

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# REPORT

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## Test Report Declare

<b>Applicant</b>	:	Harman International Industries, Inc.
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<b>Address</b>	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES

**Test Standard Used:**

FCC Rules and Regulations Part 15 Subpart C.

**Test Procedure Used:**

ANSI C63.10:2013.

**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 standards.**

<b>Report No.:</b>	DDT-R21122724-2E03		
<b>Date of Receipt:</b>	Jan. 11, 2022	<b>Date of Test:</b>	Jan. 11, 2022 ~ Jan. 19, 2022

**Prepared By:**

Ben Jin

**Ben Jin/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.

## Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jan. 19, 2022	

## 1. Summary of Test Results

Description of Test Item	Standard	Verdict
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10:2013	Pass
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10:2013	Pass

**Note:**

a. This report added the battery (ICA023NA) on the basis of the report DDT-R21062205-2E03 and DDT-R21073005-2E03, this change based on engineering judgment that only Radiated Emission (below 1 GHz) and Power Line Conducted Emissions need to test.

b. Please refer to report DDT-R21062205-2E03 and DDT-R21073005-2E03 for the original data.

## 2. General Test Information

### 2.1. Description of EUT

EUT* Name	: Portable Bluetooth Speaker
Model Number	: FLIP6T
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V from external AC Adapter DC 3.6V 4800mAh Polymer Li-ion built-in battery
Radio Specification	: 2.4GHz SRD
Operation Frequency	: 2407 MHz - 2475 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Data Rate	: 1 Mbps, 2 Mbps, 3 Mbps
Antenna Type	: FPC antenna, maximum PK gain: 1.49 dBi
Series Number	: TL1282-FL0000255 for radiation

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

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



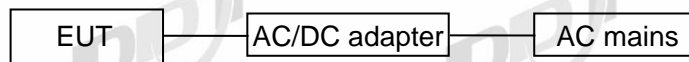
## 2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
USB cable	Harman	N/A	N/A	Length: 1.2m, unshielded

## 2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Adapter	HUAWEI	HW-050450C00	Input: 100-240V~50/60Hz, Output: 5V/2A or 4.5V/5A or 5V/4.5A	N/A

## 2.4. Block diagram of EUT configuration for test



Test software: FCCTool.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 CH68	2407 to 2475
$\pi/4$ -DQPSK hopping on Tx mode	/	CH0 to CH68	2407 to 2475
8DPSK hopping on Tx mode	/	CH0 to CH68	2407 to 2475
GFSK hopping off Tx mode	/	CH0	2407
	/	CH34	2441
	/	CH68	2475
$\pi/4$ -DQPSK hopping off Tx mode	/	CH0	2407
	/	CH34	2441
	/	CH68	2475
8DPSK hopping off Tx mode	/	CH0	2407
	/	CH34	2441
	/	CH68	2475

## 2.5. Deviations of test standard

No deviation.

## 2.6. 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

## 2.7. 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](mailto: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, G-20118

## 2.8. 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 × 10 <sup>-8</sup> (Antenna couple method) 5.5 × 10 <sup>-8</sup> (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 < 22 GHz)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10 <sup>-8</sup>
Temperature	0.4 °C
Humidity	2 %
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	3.32 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	



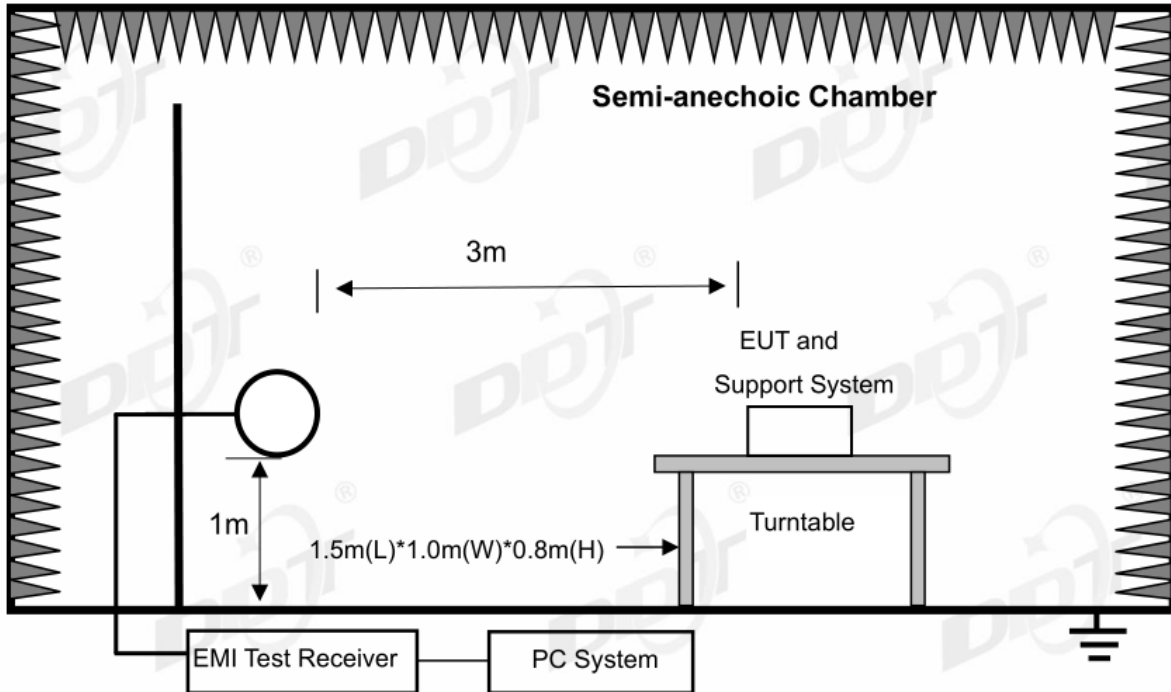
### 3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<b>☑Radiation 3#chamber</b>					
EMI Test Receiver	R&S	ESU	100472	Jun. 01, 2021	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 01, 2021	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Aug. 07, 2021	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120	02108	Jul. 17, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 08, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Sep. 02, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Mar. 15, 2021	1 Year
Test software	Audix	E3	V 6.1.1.1	N/A	N/A
<b>☑Power Line Conducted Emissions Test 1#</b>					
Test Receiver	R&S	ESCI	100551	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101109	Sep. 02, 2021	1 Year
LISN 2	R&S	ESH2-Z5	100309	Sep. 02, 2021	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Sep. 02, 2021	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Sep. 02, 2021	1 Year
LISN 3	SCHWARZBECK	NSLK 8163	00017	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

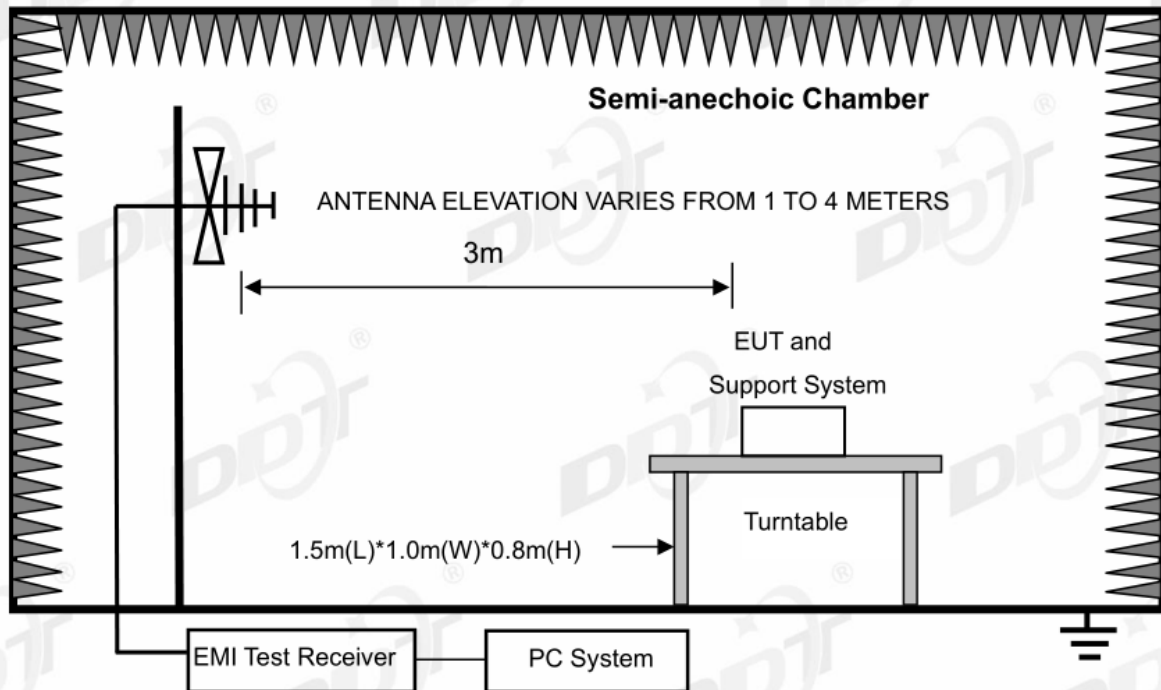
## 4. Radiated Emission

### 4.1. Block diagram of test setup

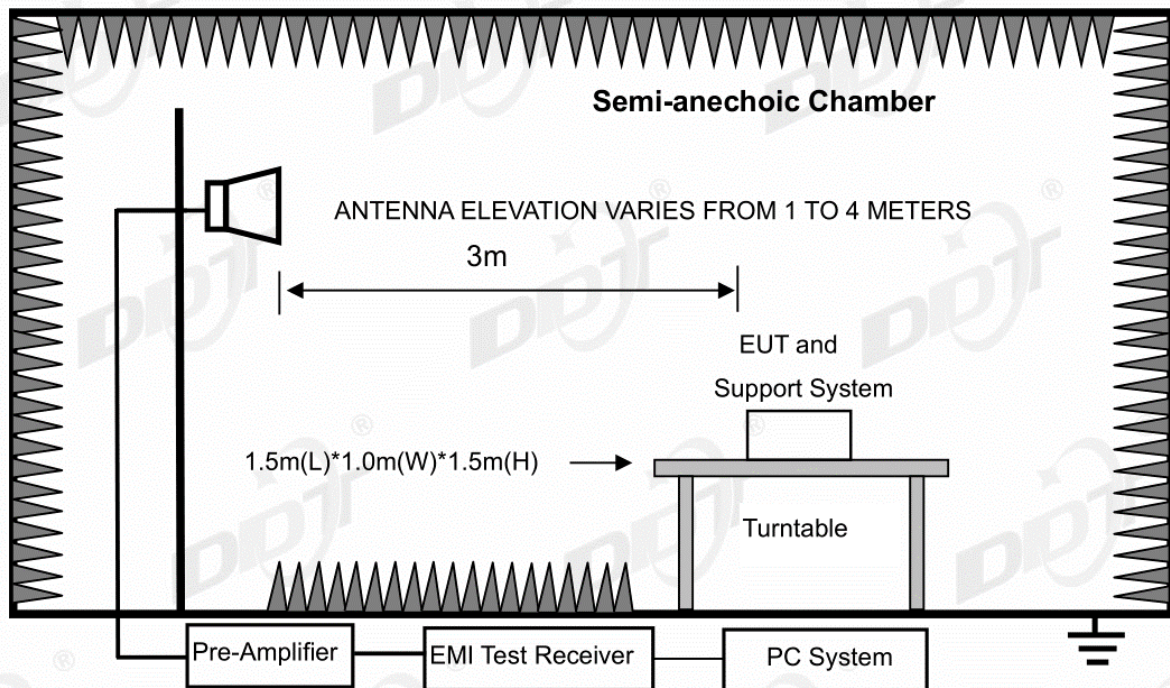
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



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
<sup>1</sup> 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	( <sup>2</sup> )
13.36-13.41			

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6



## (2) FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
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( $\mu\text{V}$ )/m (Peak) 54.0 dB( $\mu\text{V}$ )/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:

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

## (3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 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 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also

is positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. For measurement above 30 MHz, the trilog Broadband Antenna or Horn Antenna was located 3 m 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) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.



#### 4.4. 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.

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: 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 8DPSK Tx 2407 MHz mode.

Note3: 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)

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\2021 report data\Q21122724-2E FLIP6T\FCC  
BELOW 1G\FCC BELOW 1G\_00005.EMI

Test Date : 2022-01-17

Tested By : James Gan

EUT : Portable Bluetooth Speaker

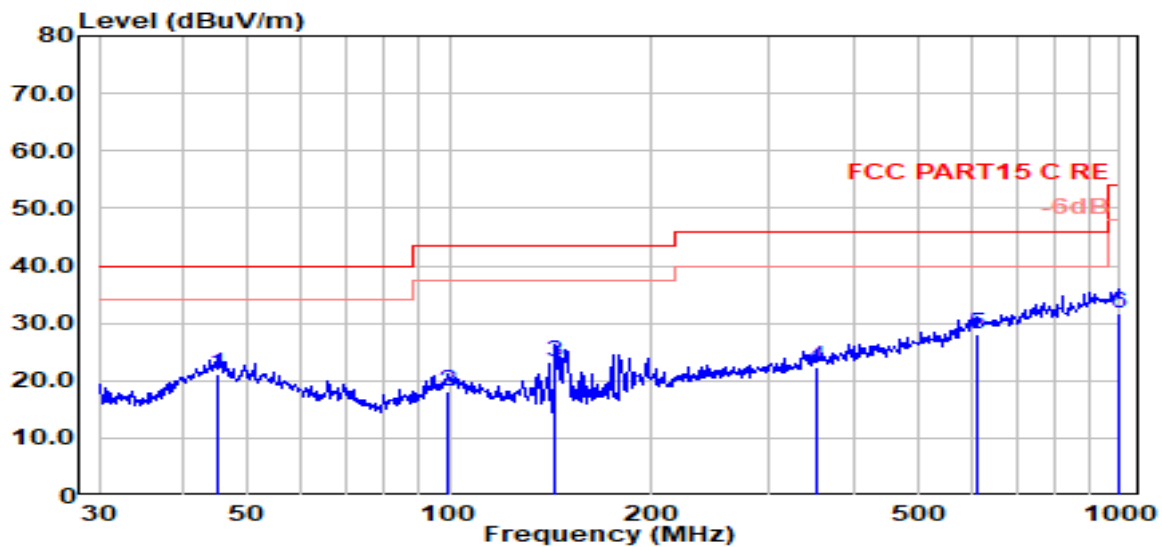
Model Number : FLIP6T

Power Supply : Battery

Test Mode : Tx Mode

Condition : Temp:22.8°,Humi:58.7%,Press:100.6kPa Antenna/Distance : VLUB 9163 3#/3m/Horizontal

Memo : SRD



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	45.22	2.47	14.99	3.62	21.08	40.00	-18.92	QP	Horizontal
2	99.53	2.56	11.50	3.98	18.04	43.50	-25.46	QP	Horizontal
3	143.83	11.25	7.80	4.19	23.24	43.50	-20.26	QP	Horizontal
4	354.18	2.21	15.02	5.00	22.22	46.00	-23.78	QP	Horizontal
5	614.21	3.20	19.12	5.77	28.09	46.00	-17.91	QP	Horizontal
6	993.01	2.62	22.40	6.80	31.82	54.00	-22.18	QP	Horizontal

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss.
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

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3#

D:\2021 report data\Q21122724-2E FLIP6T\FCC  
BELOW 1G\FCC BELOW 1G\_00006.EMI

**Test Date** : 2022-01-17

**Tested By** : James Gan

**EUT** : Portable Bluetooth Speaker

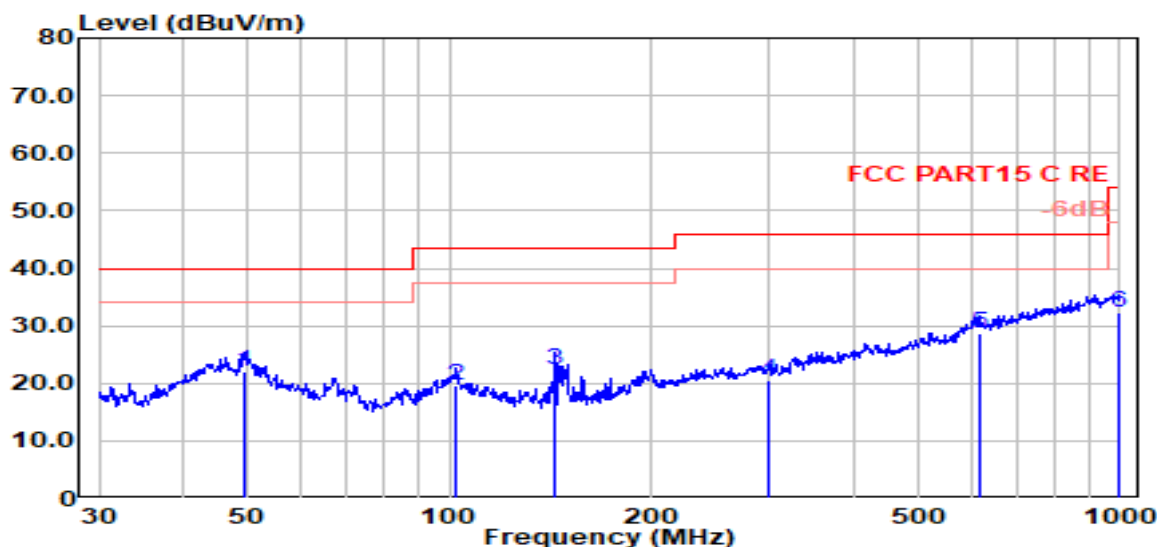
**Model Number** : FLIP6T

**Power Supply** : Battery

**Test Mode** : Tx Mode

**Condition** : Temp:22.8°,Humi:58.7%,Press:100.6kPa **Antenna/Distance** : VLUB 9163 3#/3m/Vertical

**Memo** : SRD



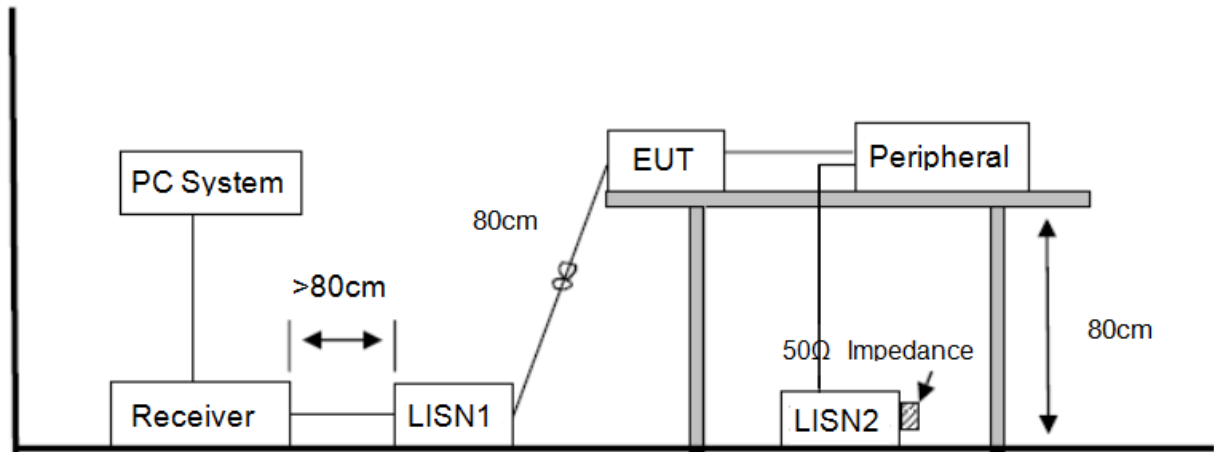
Item (Mark)	Freq. (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Detector	Polarization
1	49.36	5.54	12.73	3.66	21.94	40.00	-18.06	QP	Vertical
2	102.36	4.10	11.56	3.99	19.66	43.50	-23.84	QP	Vertical
3	143.83	10.22	7.80	4.19	22.21	43.50	-21.29	QP	Vertical
4	298.27	2.35	13.23	4.81	20.39	46.00	-25.61	QP	Vertical
5	616.37	3.78	19.07	5.78	28.63	46.00	-17.37	QP	Vertical
6	996.50	3.09	22.43	6.82	32.34	54.00	-21.66	QP	Vertical

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss.
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

## 5. Power Line Conducted Emission

### 5.1. Block diagram of test setup



### 5.2. Power line conducted emission limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
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.

### 5.3. 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.

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.

#### 5.4. 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.

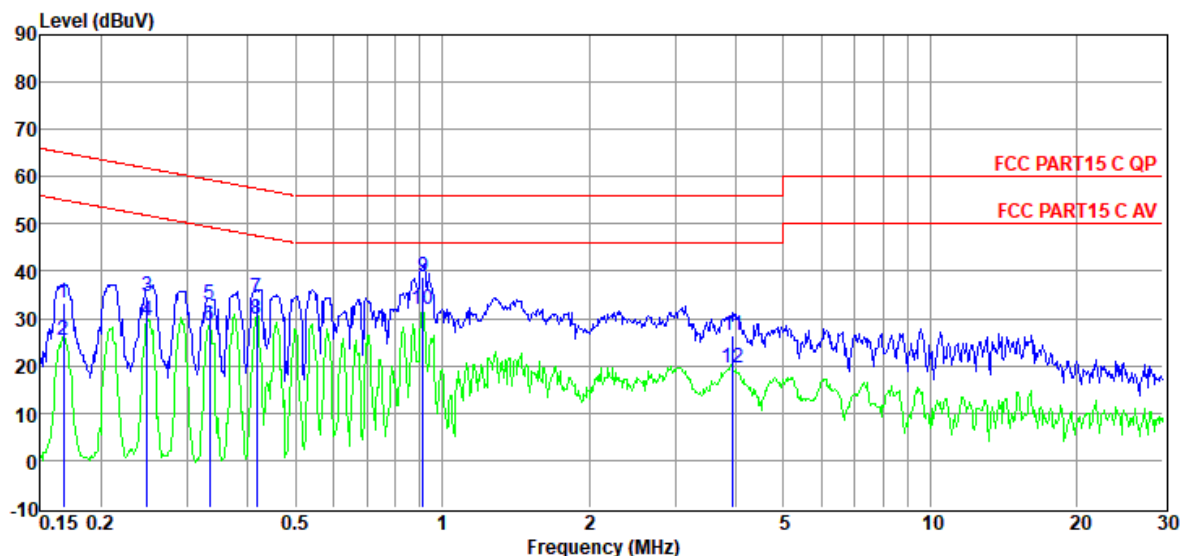
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.



# TR-4-E-010 Conducted Emission Test Result

**Test Site** : DDT 1# Shield Room **D:\2022 CE report date\Q22011309-2E\1.17 CE.EM6**  
**Test Date** : 2022-01-17 **Tested By** : James Gan  
**EUT** : Portable Bluetooth Speaker **Model Number** : FLIP6T  
**Power Supply** : AC 120V/60Hz **Test Mode** : TX mode  
**Condition** : TEMP:23.5°C, RH:56.3%, BP:101.4kPa **LISN** : 2021 1# ENV216/NEUTRAL  
**Memo** : SRD

Data: 10



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.17	13.73	9.80	0.01	9.92	33.46	65.08	-31.62	QP	NEUTRAL
2	0.17	5.83	9.80	0.01	9.92	25.56	55.08	-29.52	Average	NEUTRAL
3	0.25	15.10	9.73	0.02	9.92	34.77	61.82	-27.05	QP	NEUTRAL
4	0.25	9.84	9.73	0.02	9.92	29.51	51.82	-22.31	Average	NEUTRAL
5	0.33	13.40	9.63	0.02	9.91	32.96	59.35	-26.39	QP	NEUTRAL
6	0.33	8.97	9.63	0.02	9.91	28.53	49.35	-20.82	Average	NEUTRAL
7	0.42	14.92	9.56	0.02	9.91	34.41	57.51	-23.10	QP	NEUTRAL
8	0.42	10.48	9.56	0.02	9.91	29.97	47.51	-17.54	Average	NEUTRAL
9	0.91	19.12	9.73	0.03	9.90	38.78	56.00	-17.22	QP	NEUTRAL
10	0.91	12.10	9.73	0.03	9.90	31.76	46.00	-14.24	Average	NEUTRAL
11	3.94	6.64	9.80	0.06	9.92	26.42	56.00	-29.58	QP	NEUTRAL
12	3.94	-0.15	9.80	0.06	9.92	19.63	46.00	-26.37	Average	NEUTRAL

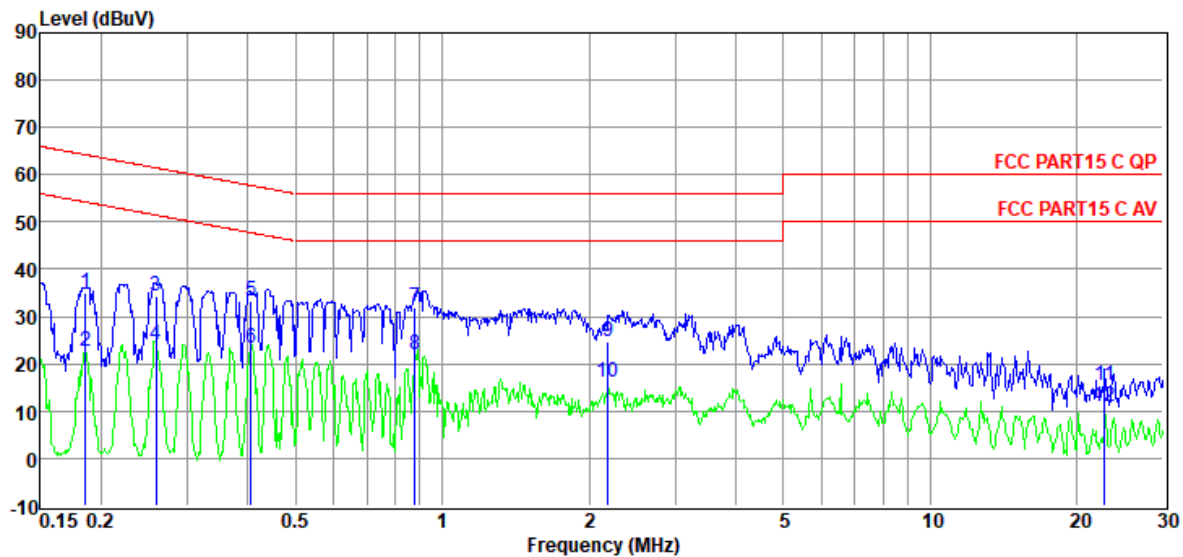
Note:

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.

# TR-4-E-010 Conducted Emission Test Result

**Test Site** : DDT 1# Shield Room **D:\2022 CE report date\Q22011309-2E\1.17 CE.EM6**  
**Test Date** : 2022-01-17 **Tested By** : James Gan  
**EUT** : Portable Bluetooth Speaker **Model Number** : FLIP6T  
**Power Supply** : AC 120V/60Hz **Test Mode** : TX mode  
**Condition** : TEMP:23.5°C, RH:56.3%, BP:101.4kPa **LISN** : 2021 1# ENV216/LINE  
**Memo** : SRD

Data: 12



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	0.19	15.21	9.75	0.01	9.92	34.89	64.24	-29.35	QP	LINE
2	0.19	2.84	9.75	0.01	9.92	22.52	54.24	-31.72	Average	LINE
3	0.26	14.75	9.74	0.02	9.92	34.43	61.47	-27.04	QP	LINE
4	0.26	4.19	9.74	0.02	9.92	23.87	51.47	-27.60	Average	LINE
5	0.41	13.70	9.65	0.02	9.91	33.28	57.73	-24.45	QP	LINE
6	0.41	3.72	9.65	0.02	9.91	23.30	47.73	-24.43	Average	LINE
7	0.88	12.41	9.56	0.03	9.90	31.90	56.00	-24.10	QP	LINE
8	0.88	2.47	9.56	0.03	9.90	21.96	46.00	-24.04	Average	LINE
9	2.19	5.28	9.51	0.04	9.89	24.72	56.00	-31.28	QP	LINE
10	2.19	-3.15	9.51	0.04	9.89	16.29	46.00	-29.71	Average	LINE
11	22.78	-4.29	9.63	0.18	9.97	15.49	60.00	-44.51	QP	LINE
12	22.78	-8.89	9.63	0.18	9.97	10.89	50.00	-39.11	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.