



RF EXPOSURE REPORT

Applicant	:	KREAFUNK APS
Address of Applicant	:	Klamsagervej 35 A, st.8230, Abyhoj 8000, Denmark
Manufacturer	:	ShenZhen Vigor Acoustic Technology Co.,Ltd
Address of Manufacturer	:	Room 301, Building C1, Yanchuan Northern Industrial Park, Yanluo Street, Baoan District, Shenzhen, P.R.China
Equipment under Test	:	Bluetooth speaker
Model No.	:	aCOUSTIC Ensemble
FCC ID	:	2ACVC-ACOUSTICENSEM
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE25073024-26E04
Issue Date	:	2026/01/29
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

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Test Report Declare

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Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

KDB447498 D04 Interim General RF Exposure Guidance v01

We Declare:

The equipment described above is tested by Guangdong 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 Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE25073024-26E04		
Date of Receipt:	2025/08/13	Date of Test:	2025/08/13~2026/01/29

Created: Chen Ziqin	Reviewed: Zoe Peng	Approved: Damon Hu
		
2025/10/26	2026/01/29	2026/01/29

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

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/01/29	Damon Hu

1. General Test Information

1.1. Description of EUT

EUT Name	: Bluetooth speaker
Model Number	: aCOUSTIC Ensemble
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V powered by an external adapter or a built-in 3.7V lithium battery
Hardware Version	: V229
Software Version	: JLC_aCOUSTIC 2_AMP_V1.0 2025.04.25.pcb JLC_aCOUSTIC 2_KEY_V1.0 2025.04.25.pcb

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, 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-20240, G-20118

2. RF Exposure evaluation for FCC

2.1. Assessment procedure

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances $\leq$ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]$

$\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):33

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

Appendix C

SAR Test Exclusion Thresholds for < 100 MHz and < 200 mm

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	< 50	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	237	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	mW
50	308	617	625	634	643	651	660	669	677	686	695	703	712	721	729	738	
10	474	948	961	975	988	1001	1015	1028	1041	1055	1068	1081	1095	1108	1121	1135	
1	711	1422	1442	1462	1482	1502	1522	1542	1562	1582	1602	1622	1642	1662	1682	1702	
0.1	948	1896	1923	1949	1976	2003	2029	2056	2083	2109	2136	2163	2189	2216	2243	2269	
0.05	1019	2039	2067	2096	2125	2153	2182	2211	2239	2268	2297	2325	2354	2383	2411	2440	
0.01	1185	2370	2403	2437	2470	2503	2537	2570	2603	2637	2670	2703	2737	2770	2803	2837	

2.2. Assess result

Manufacturing Tolerance:

Bluetooth:

Mode	Antenna	Frequency [MHz]	Target (dBm)	Tolerance ±(dB)
GFSK (Peak)	Ant1	2402	7.0	1
		2441	7.5	1
		2480	7.0	1
π/4DQPSK (Peak)	Ant1	2402	7.5	1
		2441	8.0	1
		2480	7.5	1
8DPSK (Peak)	Ant1	2402	7.5	1
		2441	8.0	1
		2480	7.5	1

Bluetooth LE:

Mode	Antenna	Frequency [MHz]	Target (dBm)	Tolerance ±(dB)
Bluetooth LE 1M (Peak)	Ant1	2402	7.0	1
		2440	7.5	1
		2480	7.0	1
Bluetooth LE 2M (Peak)	Ant1	2404	7.0	1
		2441	7.5	1
		2478	7.0	1

NFC:

Mode	Antenna	Frequency [MHz]	Target Power	Tolerance ±(dBm)	Target Power + Tolerance ±(mw)	Limit (mw)
ASK(Peak)	Ant1	13.56	-36	1	0.00032	308

PK Output Power=64.12dBuV/m@3m-95.2-6=-37.08dBm

Estimtion Result:

Worse case is as below: [2441 MHz, 9 dBm, (7.94 mW) output power]

$(7.94/5) \cdot [\sqrt{2.441(\text{GHz})}] = 2.482 < 3.0$ for 1-g SAR

Simultaneous transmit evaluation worst result: BLE+NFC=2.482/3+0.00032/308=0.827<1.

Then SAR evaluation is not required.

-----End Report-----