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# RF Exposure Evaluation FCC ID: 2ASCK-CVS-04

## **1. Client Information**

Applicant	: Dongguan Green Power One Co.,Ltd.					
Address	-	No.26, Hongyun Street, Qingxi Town, Dongguan City, Guangdong province.China				
Manufacturer	:	Dongguan Green Power One Co.,Ltd.				
Address		No.26, Hongyun Street, Qingxi Town, Dongguan City, Guangdong province.China				

## 2. General Description of EUT

EUT Name		Mini SoundPods - Black					
Model(s) No.		CVS-04, N28					
Model Different		All these models are identical in the same PCB, layout and electrical circuit, the only difference is different models for different customers.					
Sample ID		RW-C-202304-0054-2-1# & RW-C-202304-0054-2-2#					
UN ~ CU	E	Operation Frequency:	Bluetooth V5.0: 2402MHz~2480MHz				
Product Description	:	Number of Channel:	79 channels				
Description	8	Antenna Gain:	-0.91dBi PCB Antenna				
Power Supply (Earphone)	1	Input: DC 5V DC 3.7V 40mAh Li-ion battery					
Power Supply (Charger Box)	S	Input: 5V/1A DC 3.7V 400mAh Li-ion battery					
Software Version	2	V1.0					
Hardware Version		V003	1000 - 100 - 10 - 10 - 10 - 10 - 10 - 1				

**Remark:** The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

Note: More test information about the EUT please refer the RF Test Report.

TB-RF-074-1. 0



### The RF Exposure Evaluation for FCC:

#### SAR Test Exclusion Calculations

#### FCC: According to 447498 D04 Interim General RF Exposure Guidance v01.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P<sub>th</sub> (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula (B.2).

 $P_{\rm th} \,({\rm mW}) = \begin{cases} ERP_{20\,\,{\rm cm}} (d/20\,\,{\rm cm})^x & d \le 20\,\,{\rm cm} \\ \\ ERP_{20\,\,{\rm cm}} & 20\,\,{\rm cm} < d \le 40\,\,{\rm cm} \end{cases}$ 

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\operatorname{cm}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP<sub>20cm</sub> is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

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		Distance (mm)									
		5	10	15	20	25	30	35	40	45	50
(Z)	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
enc	1900	3	12	26	44	66	92	122	157	195	236
Frequency	2450	3	10	22	38	59	83	111	143	179	219
Fre	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

Table B.2—Example Power Thresholds (mW)



### Calculation:

		BI	uetooth Mode (GFSK)			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Limit P <sub>th</sub> (mW) 3	
2.402	0.500	0±1		1.259		
2.441	-0.284	0±1	1	1.259	3	
2.480	-1.145	-1±1	0	1.000	3	
NO.	A V	Bluet	cooth Mode (π/4-DQPSK)			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Limit P <sub>th</sub> (mW)	
2.402	1.029	1±1	2	1.585	3	
2.441	0.306	0±1		1.259	3	
2.480	-0.565	0±1	1	1.259	3	
		Blu	etooth Mode (8-DPSK)	A TUL	2 15	
2.402	1.509	1±1	2	1.585	3	
2.441	0.807	0±1		1.259	3	
2.480	-0.064	0±1		1.259	3	

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