

RF Exposure Report

FCC ID: 2AKVG-AS8

Product : Emergence

Trade Name : N/A

Model Number : AS8

Series Number : N/A

Issued for

NewAudio Pty Ltd

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Issued by

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MPE Calculation

1. Antenna Gain:

PCB Antenna: 2.402~2.480 GHz: 0 dBi

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = (P_G) / 4\pi R^2$$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

4. Test Result:

Worst Maximum MPE Result									
Mode	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]	Limit (mW/ cm ²)	Result
GFSK	2402	4.404	4±1	5	0	20	0.0006	1	PASS
	2441	4.487	4±1	5	0	20	0.0006		
	2480	4.269	4±1	5	0	20	0.0006		
8-DPSK	2402	3.253	3±1	4	0	20	0.0005	1	PASS
	2441	3.413	3±1	4	0	20	0.0005		
	2480	3.195	3±1	4	0	20	0.0005		

Note:

(1) N_{TX} = Number of Transmit Antennas

(2) RF Output power specifies that Maximum Conducted Peak Output Power.

5. Conclusion:**FCC and IC:**

FCC: As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),
IC: As specified in 4.2 RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm ²)
300-1,500	F/1500
1,500-100,000	1.0

For all the operating frequency band the MPE limit S: 1 mW/ cm²

The maximum MPE is calculated as $0.0006\text{mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

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