

FCC RF Exposure

EUT Description:microphone

Model No.: SOM-24,TQ-6120,TQ6330,TQ6350,PD-800,PD-100,PD-200,PD-300,PD-400,PD600,ED-200,ED-300,ED-400,ED-600,BASN Bmic2,BASN Bmic4,BASN Bmic6,BASN Bmic8,SOM-35,SOM-39,SOM-330,SOM-58,SOM-87,SOM-14,SOM-64,SOM-2400,SOM-2500,SOM-2600,SOM-6200,SOM-6400,QXD24,GLD58,SOM-8200,SOM-8400,SOM-4200,SOM-4600,SOM-900,SOM-300,SOM-380,SOM-510,SOM-520,SOM-530,DM-520,QLD4,SOM-400,DM-610,DM-620,DM-630,DM-680

FCC ID: 2BGVK-SOM-24

Equipment type: Portable Device

1. Test Procedure

According to KDB 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 ≤ 50 mm are determined by:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]}{\leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}}$$

where

f(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

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. Test Result of RF Exposure Evaluation

ANT 1	
CH/Frequency	EIRP (dBm/mW)
Channel 21 534.0MHz	4.73/2.97

[534.0MHz, 2.97mW) output power]

$(2.97\text{mW} / 5\text{mm}) \cdot [\sqrt{0.534(\text{GHz})}] = 0.434 < 3.0$ for 1-g SAR

Conclusion: No SAR is required