## FCC ID: 2ALVK-HAA5T Portable device

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \*  $[\sqrt{f(CHz)}] \leq 3.0$  for 1 a SAP, and  $\leq 7.5$  for 10 a aytromity SAP, where

 $[\,\sqrt{f}(GHz)] \leqslant 3.0$  for 1-g SAR and  $\leqslant 7.5$  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  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. We use 5mm as separation distance to calculate.

Maximum measured transmitter power:

## **BT/BLE**

	Channel Freq. (MHz)	Max Transmit Power (dBm)	Max tune-up power (dBm)	Result calculation	1-g SAR
GFSK	2402	7.337	8	1.956	3.0
	2441	7.966	8	1.972	3.0
	2480	8.414	9	2.502	3.0
pi/4-DQPSK	2402	7.956	8	1.956	3.0
	2441	8.417	9	2.482	3.0
	2480	8.915	9	2.502	3.0
8DPSK	2402	7.939	8	1.956	3.0
	2441	8.419	9	2.482	3.0
	2480	8.923	9	2.502	3.0
BLE(1M)	2402	7.39	8	1.956	3.0
	2440	7.76	8	1.971	3.0
	2480	8.09	9	2.502	3.0
BLE(2M)	2402	7.63	8	1.956	3.0
	2440	7.95	8	1.971	3.0
	2480	8.29	9	2.502	3.0

## Conclusion:

For the max result :  $2.502 \le 3.0$  for 1-g SAR extremity SAR, No SAR is required.

Signature:

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