

FCC ID: 2A7DX-AIRBUDS10

Portable device

According to §15.247(e)(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 SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

BR+EDR(Left):

Antenna Type: Chip Antenna

Antenna Gain: 1.75dBi

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-2.00	0.631	-2±1	-1.0	0.794	<5	0.24622	3.00	YES
	2.441	-2.32	0.586	-2±1	-1.0	0.794	<5	0.24821	3.00	YES
	2.480	-3.22	0.476	-2±1	-1.0	0.794	<5	0.25018	3.00	YES
π/4-DQPSK	2.402	-1.22	0.755	0±1	1.0	1.259	<5	0.39023	3.00	YES
	2.441	-1.53	0.703	0±1	1.0	1.259	<5	0.39338	3.00	YES
	2.480	-2.37	0.579	0±1	1.0	1.259	<5	0.39651	3.00	YES

BR+EDR(Right):

Antenna Type: Chip Antenna

Antenna Gain: 1.75dBi

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-2.42	0.573	-3±1	-2.0	0.631	<5	0.19558	3.00	YES
	2.441	-2.74	0.532	-3±1	-2.0	0.631	<5	0.19716	3.00	YES
	2.480	-3.5	0.447	-3±1	-2.0	0.631	<5	0.19873	3.00	YES
π/4-DQPSK	2.402	-1.67	0.681	-2±1	-1.0	0.794	<5	0.24622	3.00	YES
	2.441	-1.93	0.641	-2±1	-1.0	0.794	<5	0.24821	3.00	YES
	2.480	-2.71	0.536	-2±1	-1.0	0.794	<5	0.25018	3.00	YES

BLE(1M):

Antenna Type: Chip Antenna

Antenna Gain: 1.75dBi

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK (Left)	2.402	-0.13	0.971	-1±1	0.0	1.000	<5	0.30997	3.00	YES
	2.441	-0.34	0.925	-1±1	0.0	1.000	<5	0.31247	3.00	YES
	2.480	-1.25	0.750	-1±1	0.0	1.000	<5	0.31496	3.00	YES
GFSK (Right)	2.402	-0.63	0.865	-1±1	0.0	1.000	<5	0.30997	3.00	YES
	2.441	-0.83	0.826	-1±1	0.0	1.000	<5	0.31247	3.00	YES
	2.480	-1.62	0.689	-1±1	0.0	1.000	<5	0.31496	3.00	YES

BLE(2M):

Antenna Type: Chip Antenna

Antenna Gain: 1.75dBi

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK (Left)	2.402	-0.07	0.984	-1±1	0.0	1.000	<5	0.30997	3.00	YES
	2.441	-0.33	0.927	-1±1	0.0	1.000	<5	0.31247	3.00	YES
	2.480	-1.24	0.752	-1±1	0.0	1.000	<5	0.31496	3.00	YES
GFSK (Right)	2.402	-0.58	0.875	-1±1	0.0	1.000	<5	0.30997	3.00	YES
	2.441	-0.78	0.836	-1±1	0.0	1.000	<5	0.31247	3.00	YES
	2.480	-1.59	0.693	-1±1	0.0	1.000	<5	0.31496	3.00	YES

Conclusion:

For the max result : $0.30997 \leq 3.0$ for 1-g SAR, No SAR is required.



Signature:

Date: 2023-03-10

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