

FCC ID:2BC3D-AEROTUNES

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.

EDR: Left ear:

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 calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	2.152	1.64	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	2.707	1.87	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	3.037	2.01	3±1	4.00	2.51	<5	0.79114	3.00	YES
π /4DQPSK	2.402	2.863	1.93	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	3.414	2.19	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	3.67	2.33	3±1	4.00	2.51	<5	0.79114	3.00	YES

Right ear:

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 calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	2.334	1.71	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	2.866	1.93	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	3.149	2.06	3±1	4.00	2.51	<5	0.79114	3.00	YES
π /4DQPSK	2.402	3.009	2.00	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	3.534	2.26	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	3.737	2.36	3±1	4.00	2.51	<5	0.79114	3.00	YES

BLE: Left ear:

1M

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	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	2.03	1.60	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.44	2.551	1.80	2±1	3.00	2.00	<5	0.62334	3.00	YES
	2.480	2.973	1.98	2±1	3.00	2.00	<5	0.62843	3.00	YES

2M

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	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	2.138	1.64	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.44	2.686	1.86	2±1	3.00	2.00	<5	0.62334	3.00	YES
	2.480	3.016	2.00	3±1	4.00	2.51	<5	0.79114	3.00	YES

BLE: Right ear:

1M

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	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	2.005	1.59	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.44	2.599	1.82	2±1	3.00	2.00	<5	0.62334	3.00	YES
	2.480	2.94	1.97	2±1	3.00	2.00	<5	0.62843	3.00	YES

2M

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	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	2.149	1.64	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.44	2.727	1.87	2±1	3.00	2.00	<5	0.62334	3.00	YES
	2.480	2.485	1.77	2±1	3.00	2.00	<5	0.62843	3.00	YES

Conclusion:For the max result : $0.79114 \leq \text{FCC Limit } 3.0$ for 1g SAR.