

FCC ID: 2AK9F-90156

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.

Module AC6956

BR+EDR:

Antenna Type: FPC Antenna

Antenna Gain: -1.35dBi

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	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-5.15	0.305	-5±1	-4.0	0.398	<5	0.12340	3.00	YES
	2.441	-5.23	0.300	-5±1	-4.0	0.398	<5	0.12440	3.00	YES
	2.480	-5.89	0.258	-5±1	-4.0	0.398	<5	0.12539	3.00	YES
$\pi/4$ -DQPSK	2.402	-4.48	0.356	-5±1	-4.0	0.398	<5	0.12340	3.00	YES
	2.441	-4.65	0.343	-5±1	-4.0	0.398	<5	0.12440	3.00	YES
	2.480	-5.26	0.298	-5±1	-4.0	0.398	<5	0.12539	3.00	YES
8DPSK	2.402	-4.01	0.397	-5±1	-4.0	0.398	<5	0.12340	3.00	YES
	2.441	-4.3	0.372	-5±1	-4.0	0.398	<5	0.12440	3.00	YES
	2.480	-4.82	0.330	-5±1	-4.0	0.398	<5	0.12539	3.00	YES

BLE:

Antenna Type: FPC Antenna

Antenna Gain: -1.35dBi

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	1g SAR Exclusion threshold	SAR test exclusion
GFSK(1M)	2.402	-5.65	0.272	-5±1	-4.0	0.398	<5	0.12340	3.00	YES
	2.44	-5.08	0.310	-5±1	-4.0	0.398	<5	0.12437	3.00	YES
	2.480	-6.1	0.245	-5±1	-4.0	0.398	<5	0.12539	3.00	YES
GFSK(2M)	2.402	-5.59	0.276	-5±1	-4.0	0.398	<5	0.12340	3.00	YES
	2.44	-5.01	0.316	-5±1	-4.0	0.398	<5	0.12437	3.00	YES
	2.480	-6.06	0.248	-5±1	-4.0	0.398	<5	0.12539	3.00	YES

MODULE RTL8762

BLE:

Antenna Type: Cable Antenna

Antenna Gain: -1.35dBi

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(1M)	2.402	8.00	6.310	8±1	9.0	7.943	<5	2.46216	3.00	YES
	2.44	6.63	4.603	6±1	7.0	5.012	<5	1.56576	3.00	YES
	2.480	6.32	4.285	6±1	7.0	5.012	<5	1.57854	3.00	YES
GFSK(2M)	2.402	8.12	6.486	8±1	9.0	7.943	<5	2.46216	3.00	YES
	2.44	6.66	4.634	6±1	7.0	5.012	<5	1.56576	3.00	YES
	2.480	6.33	4.295	6±1	7.0	5.012	<5	1.57854	3.00	YES

Conclusion:

For the max result : $2.46216 \leq 3.0$ for 1-g SAR, No SAR is required.



Signature:

Date: 2022-08-27

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