

FCC ID:2AY5M-ESLEPD

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.

2.4GHz:

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	7.3	5.37	7±1	8.00	6.31	<5	1.95576	3.00	YES

Note:dbm=dbuv/m-95.2=104.17-95.2=8.97dBm(EIRP), so the conduct peak power=8.97-1.67=7.3dBm

NFC:

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
ASK	0.01356	1.5	1.41	1±1	2.00	1.58	<5	0.03691	3.00	YES

Note:dbm=dbuv/m-95.2-2.15=100.52-95.2-2.15=3.17dBm(ERP), so the conduct peak power=3.17-1.67=1.5dBm

Conclusion:

2.4GHz+NFC supported simultaneous transmission:

2.4GHz+NFC : Σ MPE Ratio = $1.95576/3+0.03691/3=0.664 \leq$ FCC Limit 3.0 for 1g SAR.