

RF EXPOSURE EVALUATION

FCC ID: 2A4ML-I28ULTRA

According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b):

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f_{\text{(GHz)}}}] \le 3.0 \text{ for } 1\text{-g SAR and } \le 7.5 \text{ for } 10\text{-g extremity SAR,}^{16} \text{ where}$

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- · The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (dBm)	Distance (mm)	Calculation results	Limit	Operating Mode
2402	3.84	3.84 ±1	4.840	5 An	0.945	ab 3ek	Anbore
2441	4.64	4.64 ±1	5.640	o ^{tell} 5	1.145	3	GFSK
2480	5.03	5.03 ±1	6.030	5	1.263	3	otek Anb
2402	4.59	4.59 ±1	5.590	5 rek	1.123	3	work !
2441	5.45	5.45 ±1	6.450	5 5	1.380	3	π/4-DQPSK
2480	5.13	5.13 ±1	6.130	5	1.292	3	Anbo
2402	4.98	4.98 ±1	5.980	5 4.00	1.228	nb 3 k	Aupo
2441	5.78	5.78 ±1	6.780	5	1.489	3010	8DPSK
2480	6.12	6.12 ±1	7.120	nbot 5	1.623	3	otek Anb
2402	7.27	7.27 ±1	8.270	5	2.081	3	notek A
2440	7.49	7.49 ±1	8.490	5 bote	2.207	3	BLE_1M
2480	7.69	7.69 ±1	8.690	5	2.329	3	And
2402	7.33	7.33 ±1	8.330	5	2.110	nbot8	Aupr
2440	7.54	7.54 ±1	8.540	5	2.232	An3otel	BLE_2M
2480	7.72	7.72 ±1	8.720	nbore 5	2.346	3,00	yek Anbo

Result: No Standalone SAR test is required.

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