

RF EXPOSURE EVALUATION

EUT Specification

EUT	Flydigi Apex6 Pro Haptics Elite Controller
Model Number	Apex6 Pro
FCC ID	2AORE-K6P
Antenna gain (Max)	BR+EDR: 2.43dBi BLE: 2.43dBi 802.15.4: 2.03 dBi
Operation Frequency	BR+EDR: 2402-2480MHz 802.15.4: 2405-2475 MHz
Rating	DC 5V/1A MAX
Classification Per Stipulated Test Standard	§ 15.247(i), § 2.1093
Modulation	BR+EDR: GFSK, $\pi/4$ -DQPSK, 8DPSK 802.15.4: GFSK
Max. output power	BR+EDR: -3.62dBm(0.4345mW) BLE: -0.34 dBm(0.9247mW) 802.15.4: 4.33dBm(2.7102mW)

Test Requirement:

According to §15.247(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.

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{24} \text{ where}$$

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 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.

One antenna is available for the EUT. The minimum separation distance is 5mm.

BLE:

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune up Power (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2480	BLE 2M	-0.34	0±1	1	0.499181	3

802.15.4:

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune up Power (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2475	GFSK	4.33	4±1	5	0.994994	3

According to KDB 447498, no simultaneous SAR measurement is required.

Signature:



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Date: 2026-7-17