



### RF Exposure Evaluation

1. The corresponding SAR Exclusion Threshold condition, listed below:

1) 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:

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

- > f(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

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.

2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:

- a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) : ( f(MHz)/1 50)] mW, at 100MHz to 1 500 MHz
- b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)-10] mW at > 1500 MHz and ≤ 6 GHz

3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.

- a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances > 50 mm and < 200 mm.
- b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by /2 for test separation distances ≤50 mm.
- c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

### 2. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as Portable Device.

### EUT Specification

<b>FCC ID</b>	2A4FQ-135V
<b>PRODUCT:</b>	DOG TRAINING SYSTEM
<b>MODEL NO.:</b>	135V, 678, 681, 669, 667B, 660, 281, 663, 135, 885, 556, 662
<b>ST ANDARDS:</b>	FCC Part 15.231 KDB 447498 D01 V06 ANSI C95.1- 1999
<b>Antenna type:</b>	Spring antenna
<b>Antenna gain (Max)</b>	-1.98dBi
<b>Evaluation applied</b>	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation



3. SAR TEST EXCLUSION THRESHOLDS

The measured conducted PK Power

Mode	Frequency(MHz)	Field strength(dBuV/m@3)	EIRP (dBm)
TX	433.92	66.95	-28.21

Note:

$EIRP = E_{Meas} + 20\log(d_{Meas}) - 104.7$

EIRP is the equivalent isotropically radiated power, in dBm

$E_{Meas}$  is the field strength of the emission at the measurement distance, in dBuV/m

$d_{Meas}$  is the measurement distance, in m

$EIRP = E + 20\log(d) - 104.7 = 66.95 + 9.54 - 104.7 = -28.21\text{dBm}$

The tuned conducted PK Power (declared by client)

Mode	Frequency(MHz)	Target Power (dBm)	Tolerance $\pm$ (dBm)
TX	433.92	-28	1

Frequency (MHz)	Minimum Separation distance (mm)	RF Output power		Result	Limit for 1-g SAR	Verdict
		(dBm)	(mW)			
433.92	5	-27	0.002	0.000263	3.0	Exempt from SAR

**Conclusion**

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.