



H.B. Compliance Solutions

FCC SAR Exclusion Report

For the

Pawport

Smart Pet Tag

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Prepared for:

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A handwritten signature in black ink, appearing to read 'Hoosamuddin Bandukwala'.

Hoosamuddin Bandukwala



Cert # ATL-0062-E

1. Equipment Overview

Product Name:	Smart Pet Tag
Model(s) Tested:	N/A
FCC ID:	2BSOT-SPT107
Supply Voltage Input:	Primary Power: +120 ac
Frequency Range:	5925-7250 MHz
No. of Channels:	1
Type(s) of Modulation:	OOK
Range of Operation Power:	-25.09dBm (EIRP)
Emission Designator:	N/A
Channel Spacing(s)	N/A
Test Item:	Pre-Production
Type of Equipment:	Mobile
Antenna Requirement (§15.203) :	Type of Antenna: Ceramic Antenna Gain of Antenna: -0.5dBi
Environmental Test Conditions:	Temperature: 15-35°C Humidity: 30-60% Barometric Pressure: 860-1060 mbar
Modification to the EUT:	None

2. Applicable Standard

Standalone SAR Test Exclusion Consideration

According to KDB447498 D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	SAR Test Exclusion Threshold (mW)
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

Table 1: SAR test exclusion threshold 100MHz -6GHz for ≤50MM

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:

$$\frac{\text{max. power of channel [mW]}}{\text{min. test separation distance [mm]}} \cdot \sqrt{f[\text{GHz}]} \leq \begin{cases} 3.0 & 1g \text{ SAR} \\ 7.5 & 10g \text{ SAR} \end{cases}$$

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

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

3. Test Results

To solve for the EIRP ;

$$\frac{\text{max. power of channel, including tune – up tolerance (mW)}}{\text{min. test separation distance (mm)}} * \sqrt{f(\text{GHz})}$$

$$\text{General RF Exposure} = (0.0018 / 5 \text{ mm}) \times \sqrt{6.8 \text{ GHz}} = 0 \text{ ①}$$

SAR 1g extremity requirement:

$$S = 3.0 \text{ ②} ;$$

$$\text{①} < \text{②}.$$

Therefore SAR report is not required.

Frequency (GHz)	Separation Distance (mm)	Max Power + Tolerance (dBm)	Max Power + Tolerance (mW)	SAR Calculation Result	Limit for Exclusion threshold	SAR Evaluation
6.812	5.0	-25.09	0.00188	0.00	3.0	SAR Exempt

Transmit power is less than power indicated in table 1 and the result of the above condition is less than 3. Based on this the transmitter is exempted from SAR evaluation.

END OF TEST REPORT