

EMC Test Data

Client:	Apptricity Corporation	PR Number:	PR124075
Model:	BT Tag 550-130-100	T-Log Number:	TL124075-RA BLE
	B1 1ag 330-130-100	Project Manager:	Christine Krebill
Contact:	Marci Haslam	Project Engineer:	David Bare
Standard:	FCC Part 15.247, RSS-247	Class:	N/A

Maximum Permissible Exposure / SAR Exclusion

Specific Details

Objective: Evaluate the RF Exposure requirements per FCC 1.1310, 2.1091, 2.1093 and RSS-102.

Date of Test: 2/9/2021 Test Engineer: David Bare

General Test Configuration

Calculation uses the free space transmission formula:

 $S = (PG)/(4 \pi d^2)$

Where: S is power density (W/m²), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

SAR exclusion calculation formula is from FCC KDB 447498 D01 section 4.3:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}]$

Where: f_(GHz) is the RF trasnmit channel frequency

Summary of Results

Device complies with SAR exclusion at 5mm separation: Yes

Deviations From The Standard

No deviations were made from the requirements of the standard.

FCC SAR Exclusion Calculation

	ГПТ		Oabla Lasa	Λ 1	D		Congration	SAR	CAD Evaluation Limit
	EUI		Cable Loss	Ant	Power		Separation	SAR	SAR Exclusion Limit
Freq.	Power		Loss	Gain	at Ant	EIRP	Distance	Exclusion	
MHz	dBm	mW*	dB	dBi	dBm	mW	(mm)	Calc.	
2480	2.0	1.58	0	3.5	2.0	3.55	5.0	0.50	3.0

Power for calculation reduced by 20 dB due to as in any 1 second period the maximum exposure duty cycle would be .36% (3.63ms/second).