Client:	EBR Systems	Job Number:	JD106124
Model:	5100	T-Log Number:	T106196
		Project Manager:	Christine Krebill
Contact:	Daryl Jamgotchian	Project Coordinator:	-
Standard:	FCC Parts 15C & 95, EN 301 839 v2.1.1, EN 300 328 v2.1.1	Class:	N/A

Maximum Permissible Exposure / SAR Exclusion

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 12/18/2017

Test Engineer: David Bare

General Test Configuration

Calculation for MPE uses the free space transmission formula:

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

Where: S is power density (W/m^2), P is time averaged output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Calculation for SAR exclusion uses the formula from FCC KDB 447498:

$$P/d * \sqrt{(F_{GHz})}$$

P is time averaged output power (mW), F is frequency in GHz, d is separation distance from the transmitting antenna (mm).

The device complies with the SAR exclusion requirements at a separate distacne of 5 mm from extremities.

FCC SAR Exclusion Calculation (Wakeup/Search)

Freq. MHz	EUT Power dBm	EUT Power mW*	Duty Cycle	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	SAR Exclusion Calc.	SAR Exclusion Limit
2450	19.8	95.5	18.8%	0.4	12.5	19.7	5.0	5.62	7.5

FCC SAR Exclusion Calculation (Connection)

Freq. MHz	EUT Power dBm	EUT Power mW*	Duty Cycle	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	SAR Exclusion Calc.	SAR Exclusion Limit
403.5	-9.7	0.107	100.0%	-2.3	-9.7	0.063	5.0	0.014	7.5