



EMC Test Data

Client: Fitbit, Inc.	Job Number: JD105947
Model: FB410	T-Log Number: T106007
	Project Manager: Deepa Shetty
Contact: Ricky Wang	Project Coordinator: -
Standard: FCC 15.247, 15.209 / RSS-247, RSS-210 / LP0002	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: 5/3/2018
 Test Engineer: David Bare

General Test Configuration

MPE 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 for FCC uses the formula from KDB 447498 D01:

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

Summary of Results

Device complies with SAR exclusion at 5 mm separation for extremities:	Yes
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FCC SAR Exclusion Calculation

Freq. MHz	EUT Power		Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	SAR Exclusion Calc.	SAR Exclusion Limit
	dBm	mW*							
2480	5.0	3.2	0	-9.9	5.0	0.32	5.0	1.0	7.5

Industry Canada SAR Exclusion Calculation (Highest of output power or EIRP)

Freq. MHz	EUT Power		Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	Maximum Power or EIRP	SAR Exclusion Limit (mW)
	dBm	mW*							
2480	5.0	3.2	0	-9.9	5.0	0.32	5.0	3.2	10.0