



EMC Test Data

Client:	ConserVention	PR Number:	PR118617
Model:	SMAT	T-Log Number:	TL118617-RA
Contact:	Thomas Shaw	Project Manager:	Christine Krebill
Standard:	FCC Part 15	Project Engineer:	David Bare
		Class:	N/A

SAR Exclusion

Specific Details

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

Date of Test: 7/1/2020

Test Engineer: David Bare

General Test Configuration

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

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

Where: $f_{\text{(GHz)}}$ is the RF transmit channel frequency

Summary of Results

Device complies with SAR exclusion at 5mm separation:	Yes
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Deviations From The Standard

No deviations were made from the requirements of the standard.

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*							
2402	-1.5	0.7	0	1.3	-1.5	0.95	5.0	0.22	3.0
2440	-2.5	0.6	0	1.6	-2.5	0.81	5.0	0.18	3.0
2480	-1.7	0.7	0	1.2	-1.7	0.89	5.0	0.21	3.0

ISED 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 (mW)	SAR Exclusion Limit (mW)
	dBm	mW*							
2402	-1.5	0.7	0	1.3	-1.5	0.95	5.0	0.95	4.0
2440	-2.5	0.6	0	1.6	-2.5	0.81	5.0	0.81	4.0
2480	-1.7	0.7	0	1.2	-1.7	0.89	5.0	0.89	4.0