

4740 Discovery Drive | Lincoln, NE 68521 tel- 402.323.6233 | tel -888.657.6860 | fax - 402.323.6238 info@nceelabs.com | http://nceelabs.com

RF Exposure

Reference: CFR 47 FCC Part 1.1310

RSS-102. Issue 5

<u>Description</u>: All 3 transmitters in the device have the possibility of transmitting simultaneously. The worst-case exposure for each transmitter was used to calculate the percentage of the allowable limit that each transmitter contributed. All of the percentages were then added together to verify that at the specified operating distance, they were below the allowable limit.

All measurements were peak or RMS power readings taken from test reports from accredited test labs. Antenna gains were taken from the manufacturer's specifications.

<u>Limits</u>: Maximum exposure limits from CFR 47, FCC Part 1.1310:

Table 1 - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	nge Electric field strength (V/m) Magnetic field strength (A/m)		Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for O	ccupational/Controlled Expos	sure	
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
	(B) Limits for Gener	al Population/Uncontrolled E	xposure	
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30



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Occupational/Controlled	0
General Population/uncontrolled	1

Transmitter	Frequency	Antenna Gain	Power	Power Density	Limit	% of limit	Highest	Total	Туре
				,		Percent			· · ·
	MHz	numerical	mW	mW/cm^2	mW/cm^2	of limit			
1	908.4	1	0.344	0.00007	0.6056	0.0001	1	0.01%	AV/Conducted
1	916	1	0.291	0.00006	0.6107	0.0001		0.00%	AV/Conducted
2	905.6	1	6.78	0.00135	0.6037	0.0022	1	0.22%	PK/EIRP
2	915	1	4.79	0.00095	0.6100	0.0016		0.00%	PK/EIRP
2	924.4	1	3.39	0.00067	0.6163	0.0011		0.00%	PK/EIRP
3*	2412	1	167.11	0.03326	1.0000	3.33%		0.00%	PK/conducted
3*	2442	1	236.05	0.04698	1.0000	4.70%	1	4.70%	PK/conducted
3*	2462	1	221.31	0.04405	1.0000	4.41%		0.00%	PK/conducted
							ΤΟΤΔΙ	4 93%	

Distance	20	cm
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PASS?	YES
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^{*}Note: module 3 comes from test report D50429R2 from Compatible electronics as listed under FCC ID 2ADHKATWINC150