Report No.: 21A032510R-FR FCC ID: ELVMTRUF

RF Exposure Evaluation

Product: Transceiver

Model Number: CAIVU-LR; SLIVU-LR

Applicant: Nutek Corporation

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New Taipei City 23145, Taiwan

Issued By: Interocean EMC Technology Corp.

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1 RF Exposure Evaluation

Portable Device

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB 447498_D01_V06 4.3.1(a) SAR exclusion thresholds by: [max. power of channel, including tune-up tolerance, mW]/(min, test separation distances, mm)]*[$\sqrt{f}(GHz)$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

Maximum measured transmitter power

Frequency Range (MHz)	Continuous transmit power (dBm)	Duty Cycle (dB)	Transmit power (dBm)	Tune-up power tolerance (dB)	Total Maximum power	
					(dBm)	(mW)
909.6	13.35	-7.10	6.25	(±)2	8.25	6.683

 $(6.683/5)*(\sqrt{0.9096})=1.275 \le 3.0$

Conclusion:

No SAR is required.

SIMULTANEOUS TRANSMISSION EVALUATION

N/A

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Duty Cycle Calculation

Duty cycle factor in dB = $20 \log$ (duty cycle) = $20 \log$ (Ton/Tp)

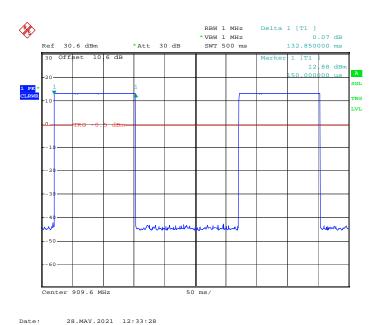
The duration of one cycle = 132.85ms

The transmission time of one cycle = 300.85ms

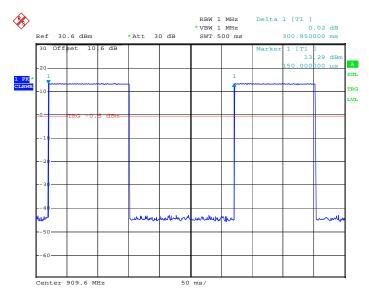
Duty Cycle = 129.0 ms / 304.0ms = 0.44158

Therefore, the duty cycle factor is found by 20 $\log~0.442434$ = -7.10 dB

Ton:



Tp:



Date: 28.MAY.2021 12:34:15