RF Exposure Evaluation

E.U.T.： Transceiver

Model Number： 5BCR14RE

Applicant： **Nutek Corporation**

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Vic Tsao　　Jerry Liu

1 RF Exposure Evaluation

Maximum measured transmitter power

Frequency Range (MHz)	Continuous transmit power (dBm)	Averaging factor (dB)	Transmit power (dBm)	Tune-up power tolerance (dB)	Total Maximum power	
					(dBm)	(mW)
909.6	15.45	-12.55	2.9	(±)2	4.9	3.0903
913.8	15.4	-12.55	2.85	(±)2	4.85	3.0549
918.0	15.33	-12.55	2.78	(±)2	4.78	3.0061

Averaging factor in dB =20 log (duty cycle)
The duration of one cycle = 561.6ms
Duty Cycle = Ton/duration =132.4 ms / 561.6ms
Therefore, the averaging factor is found by 20 log 0.23575 = -12.55 dB

Portable Device

According to §15.247(e)(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(1)

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

Calculation

(3.0903/5)*($\sqrt{}$0.9096)=0.58946≦7.5

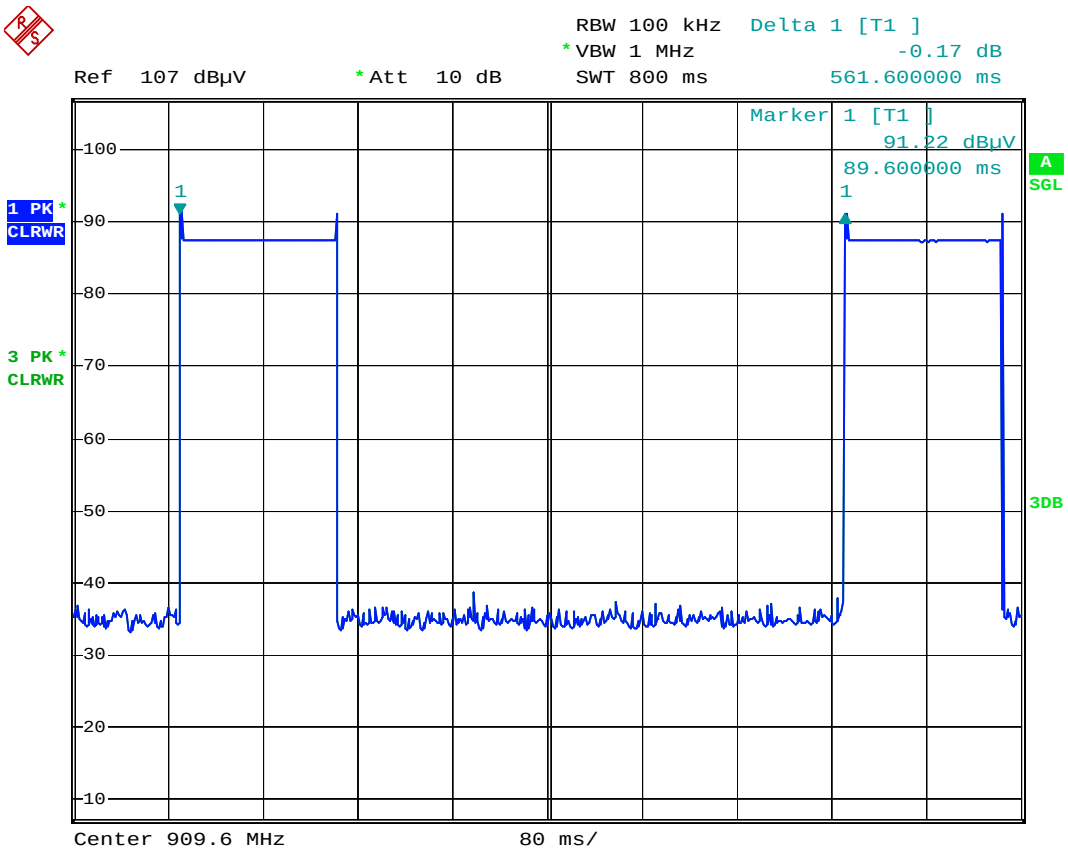
Conclusion

No SAR is required.

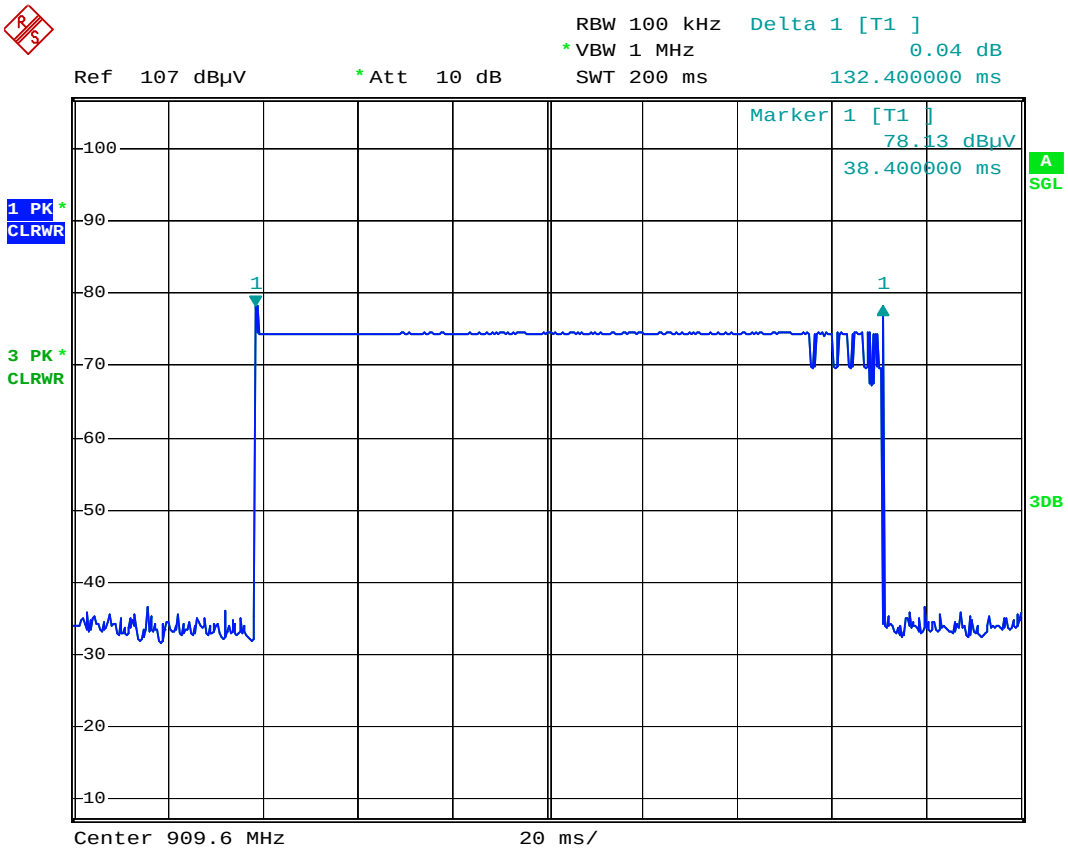
Simultaneous Transmission Evaluation

N/A

Duty Cycle



Duration



Time Slot