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RF EXPOSURE CALCULATIONS

Requirement:

According to USA CFR 15 §1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. For Canada, RSS-102 sets out the requirements and measurement techniques used to evaluate radio frequency (RF) exposure compliance of radiocommunication apparatus designed to be used within the vicinity of the human body.

Maximum Permissible Exposure Calculations:

USA REF: 1.1310, 2.1091/1093, 447498 D01 General RF Exposure Guidance v06

IC REF: RSS-102 Issue 5, Safety Code 6

Min. Sep. Distance: 25cm - Fixed Mounted

Test Date:

9-Oct-19

Test Engineer:

Joseph Brunett

EUT:

Nikola Vero 100-000A

EUT Mode:

Worst Case

Meas. Distance:

3 meters

Mode	Freq. MHz	Worst Case EIRP(Avg)** dBm	E25cm(Avg) dBuV/m	S25cm(Avg)***** mW/cm2	SC6 Limit (S25cm) mW/cm2	MPE Ratio (ISED)	S Limit mW/cm2	MPE Ratio (FCC)
DTS, CM	2402.00	32.3						
	2420.00	34.3						
	2440.00	33.1						
	MAX	34.3						
BLE	2402.00	4.0						
	2440.00	4.0						
	2480.00	4.0						
	MAX	4.0						
WLAN	2412.00	19.7	120.8	0.00032	0.53508	.0006	1.00000	.0003
	2437.00	19.9						
	2462.00	19.7						
	MAX	19.9						
					0.54040	.0230	1.00000	.0124
					MPE Total (<1):	.6608	MPE Total (<1):	.3555
					Complies?	Yes	Complies?	Yes

*As Measured / Computed from highest fundamental emission, see fundamental emission section of this report.

**maximum of either EIRP or Pout as measured. BLE per CTS Report CGZ3160202-00109-EFI, WLAN per US Tech Report 13-0186.

**** EIRP (mW) = S (mW/cm²) x 4 x PI x 20cm²

Summary:

The EUT with all transmitters is compliant with both the FCC power density limit and the ISED Exposure Evaluation limits.