



Statement of compliance to Maximum Permissible Exposure (MPE)

Applicant : RAE Systems Inc.
3775 N. 1st St., San Jose, California USA 95134.

Manufacturer : RAE Systems Inc.
3775 N. 1st St., San Jose, California USA 95134.

Equipment : AreaRAE Pro, AreaRAE Plus

Type/Model : PGM-6560B(AreaRAE Pro),
PGM-6520B(AreaRAE Plus)

Test Result : Pass

According to §2.1091, §2.1093 and §1.1307(b), 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.

The $S = PG / (4\pi R^2)$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

For BLE, as we can see from the test report 160502874SHA-004

Frequency band (MHz)	Max power		Antenna Gain		R	S
2400-2483.5MHz	-10.53dBm	0.0885mW	-1.5dBi	0.71	20cm	0.0000125

For Mesh, as we can see from the test report 160502874SHA-003

Frequency band (MHz)	Max power		Antenna Gain		R	S
902MHz-928MHz	12.93dBm	19.63mW	3.0dBi	1.99	20cm	0.0077

For Freewave, as we can see from FCC ID: KNYAMI0032AT: the Duty cycle corrected output power is 389.61mW

Frequency band (MHz)	Max power		Antenna Gain		R	S
2.4GHz FHSS	-	389.6mW	2.5dBi	1.77	20cm	0.137



For the device can support simultaneous transmission, according to 447498 D01 General RF Exposure Guidance v06,

The sum of the MPE ratios = $0.0000125/1.0 + 0.0077/0.61 + 0.137/1.0 = 0.149$

This level is below the simultaneous transmission MPE test exclusion requirements (≤ 1.0).

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Date of issue: June 09, 2016

Prepared by:

A handwritten signature in black ink that reads "Jesse".

Jesse Xu (*Project Engineer*)

Reviewed by:

A handwritten signature in black ink that appears to read "Daniel".

Daniel Zhao (*Reviewer*)



FCC ID: SU3-6560B
IC:20969-6560B

Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.