



FCC RF EXPOSURE REPORT

For

OPS-A2

MODEL NUMBER: OPS-A2-8R64S

SERIES MODEL NUMBER: OPS-A2-16R64S

REPORT NUMBER: 4791677048-1-RF-1

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Prepared for

Promethean Limited

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	May 6, 2025	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Promethean Limited
Address: Promethean House, Lower Philips Rd, Blackburn, UK, BB1 5TH

Manufacturer Information

Company Name: Promethean Limited
Address: Promethean House, Lower Philips Rd, Blackburn, UK, BB1 5TH

EUT Information

EUT Name: OPS-A2
Model: OPS-A2-8R64S
Series Model: OPS-A2-16R64S
Model Difference: Only the RAM size is different.
Sample Received Date: February 24, 2024
Sample Status: Normal
Sample ID: 8164115
Date of Tested: February 24, 2025 to May 6, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
447498 D04 Interim General RF Exposure Guidance v01	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 1 Subpart I, section 1.1307 and KDB 447498 D04 Interim General RF Exposure Guidance v01.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR 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.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (Minutes)
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 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

CALCULATION METHOD

$$S = PG/4\pi R^2$$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

CALCULATED RESULTS

For single RF source:

Operating Mode	Max. Tune up Power	Max. Directional Antenna Gain	Power density	Limit
	(dBm)	(dBi)	(mW/ cm ²)	
BLE	1.0	2.66	0.00046	1
BT	6.0	2.66	0.00146	1
WIFI2.4G	18.5	2.66	0.02599	1
WIFI5G	18.5	1.65	0.02059	1

For transmit simultaneously worst case:

Worst Mode				
Maximum 2.4G WiFi Power Density/ Limit(mW/cm ²)	Maximum BT Power Density/ Limit(mW/cm ²)	\sum (Power Density /Limit(mW/cm ²)) of 2.4G WiFi+BT	Limit	Test Result
0.05198	0.00292	0.0549	1.0	Complies
2.4G WiFi MPE/0.5+BT MPE/0.5<1.0				

Note:

1. The calculated distance is 20 cm.
2. The WIFI&BT power comes from OD.
3. Only the BT&WIFI 2.4G and BT&WIFI 5G can transmit simultaneously. (declare by manufacturer)

END OF REPORT