



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230800267703

Page: 1 of 7

RF EXPOSURE EVALUATION REPORT

Application No.: SZCR2308002677AT
Applicant: Edgenectar Inc.
Address of Applicant: 111 N, Market St. #300, San Jose, California 95113 United States
Manufacturer: Edgenectar Inc.
Address of Manufacturer: 111 N, Market St. #300, San Jose, California 95113 United States
Equipment Under Test (EUT):
EUT Name: PICO
Model No.: Pinge5000
FCC ID: 2A9Z95GEMUIA02
Standard(s) : FCC Rules 47 CFR §2.1091
KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2023-08-17
Date of Evaluation: 2023-09-21 to 2023-11-20
Date of Issue: 2023-11-21

Evaluation Result:

Pass*

* In the configuration evaluated, the EUT complied with the standards specified above.

Kenx Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Page: 2 of 7

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-11-21		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Contents

	Page
1 Cover Page	1
2 Contents	3
3 General Information	4
3.1 General Description of E.U.T.	4
3.2 Details of E.U.T.	4
3.3 Separation Distance	4
3.4 Test Location	5
3.5 Test Facility	5
3.6 Deviation from Standards	5
3.7 Abnormalities from Standard Conditions	5
4 FCC Radiofrequency radiation exposure limits	6
5 Measurement and Calculation	7
5.1 Maximum transmit power	7



3 General Information

3.1 General Description of E.U.T.

Product Type:	☐ Portable device
	☒ Mobile device
	☐ Fixed device

3.2 Details of E.U.T.

Power supply:	DC48V
EUT Type:	CBSD
Category of EUT:	Category A
Operation Frequency Band:	N48 (3550-3700MHz)
Test Mode:	TM1.1, TM3.1, TM3.1a, TM3.2
Modulation Type:	QPSK, 16QAM, 64QAM
Bandwidth:	100MHz
Transmission (TX) and Receiving (RX) Antenna Ports:	4*4
MIMO supported	4*4 UL
Antenna Type:	Integral Antenna
Antenna Gain:	2.5dBi

Note:

(1)The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.

3.3 Separation Distance

Minimum test separation distance:	20cm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.	

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230800267703

Page: 5 of 7

3.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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4 FCC Radiofrequency radiation exposure limits

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
Limits for General Population/Uncontrolled Exposure				
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

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SZCR230800267702 and Tune up procedure.

Antenna Gain: 2.5dBi

MPE Calculation

According to the formula $S = P / 4\pi R^2$, we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) R = distance to the center of radiation of antenna (in centimeter)
- 3) MPE limit = 1mW/cm²

Test Mode	Frequency Band (MHz)	Max Conducted power (dBm)	Max E.I.R.P (dBm)	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit of Power Density S(mW/cm ²)	Result
N48	3550-3700	31	33.5	20	0.4454	1.00	Pass

--End of the Report--