



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251100485003

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RF EXPOSURE EVALUATION REPORT

Application No.: SZCR2511004850ME
Applicant: Shenzhen Lifotronic Technology Co., Ltd.
Address of Applicant: Lifotronic Tower, No.8, Qiuzhi East Road, Guancheng Community, Guanhu Street, Longhua, 518110 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Manufacturer: Shenzhen Lifotronic Technology Co., Ltd.
Address of Manufacturer: Lifotronic Tower, No.8, Qiuzhi East Road, Guancheng Community, Guanhu Street, Longhua, 518110 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Factory: Shenzhen Lifotronic Technology Co., Ltd.
Address of Factory: No.2 Zhanghua Road, Songshan Lake Park, 523808 Dongguan City, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA
Equipment Under Test (EUT):
EUT Name: Hemoglobin Analyzer(HPLC)
Model No.: H100Plus
Trade Mark: Lifotronic
FCC ID: 2BT5K-H100PLUS
Standard(s) : FCC Rules 47 CFR §2.1091
FCC Rules 47 CFR §1.1310
Date of Receipt: 2025-11-06
Date of Evaluation: 2025-11-13 to 2025-12-22
Date of Issue: 2025-12-23

Evaluation Result:

Pass*

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

Kenx. Xu

Kenx Xu

EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-12-23		Original

Authorized for issue by:				
		Edison Li		
		Edison Li/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		

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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:	AC 120V, 60Hz
Cable(s):	AC cable:140cm unshielded DC cable:140cm with a ferrite core
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

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.	

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, Nanshan District, 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

4 Measurement and Calculation

Maximum transmit power for NFC

5.2.1 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T14	REF. No.SEA18F01A

5.2.2 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2026/05/09
2	Electric and Magnetic Field Probe - Analyzer(9kHz-30MHz)	Narda	EHP-200A	SEM022-18	2026/04/02

EHP-200A Probe parameter:

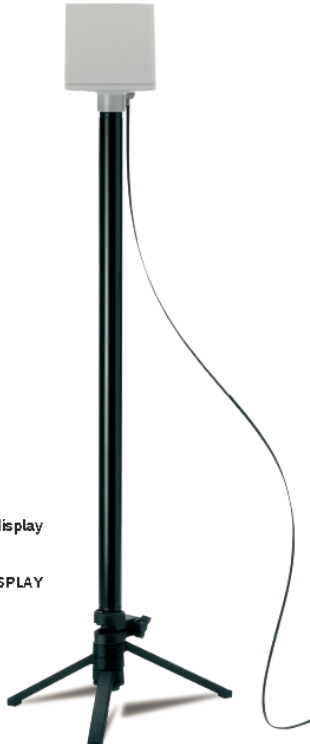
www.narda-sts.com

ELECTRIC AND MAGNETIC FIELD ANALYZER

EHP-200A / EHP-200AC

Selective and broadband high frequency field analysis

- ▲ Powerful receiver for selective and wideband measurements in all 3 spatial directions
- ▲ Isotropic measurements in the 9 kHz to 30 MHz range EHP-200A in the 3 kHz to 30 MHz range EHP-200AC
- ▲ Electric Fields from 0.02 to 1000 V/m
- ▲ Magnetic Fields from 0.6 mA/m to 300 A/m EHP-200A from 6 mA/m to 1000 A/m EHP-200AC
- ▲ Built-in Frequency Spectrum Analysis
- ▲ Built-in rechargeable Li-Ion battery
- ▲ Optical interface for remote control and result display avoids distortion of the field under test
- ▲ Control and display using a PC or the 8053 DISPLAY Broadband Field Meter







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5.2.3 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C

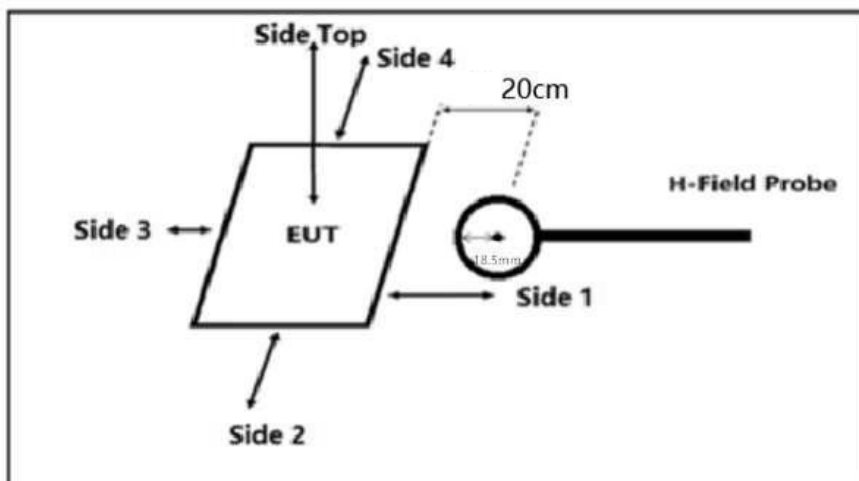
Humidity: 51.3 % RH

Atmospheric Pressure: 1020 mbar

5.2.4 Test mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode with modulation(13.56MHz).

5.2.5 Test Block Diagram



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5.2.5 Limit

According to 47 CFR PART 1, Subpart I, Section 1.1310, the criteria listed in the below table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified table 1.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) 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

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1310(b), (c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310.



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5.2.6 Measurement Data

Test mode:02

Magnetic Field Emissions

Operation Frequency	Test Distance(cm)	Test Position	Probe Measure Result (A/m)
13.56MHz	20	Side 1	0.0414
		Side 2	0.0237
		Side 3	0.0125
		Side 4	0.0069
		Top	0.0002

Electric Field Emissions

Operation Frequency	Test Distance(cm)	Test Position	Probe Measure Result (V/m)
13.56MHz	20	Side 1	0.9976
		Side 2	0.4063
		Side 3	0.1257
		Side 4	0.0098
		Top	0.0006

5.2.7 Standalone transmission

Test Mode	Frequency (MHz)	Magnetic Field Emissions(A/m)	Electric Field Emissions(V/m)	Limit(A/m)	Limit(V/m)	Magnetic Field Emissions Ratio	Electric Field Emissions Ratio
NFC	13.56	0.0414	0.9976	0.1615	60.7670	0.25635	0.01642

5 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2511004850ME

-End of the Report-



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