



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000383905

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RF Exposure Report

Application No.: SZCR2410003839AT
Applicant: Changsha Zhonggu Intelligent Equipment Manufacturing Co., LTD
Address of Applicant: 58, Yinzhou Road, High and new tech park, Ningxiang, Changsha, Hunan, 410600, China
Manufacturer: Changsha Zhonggu Intelligent Equipment Manufacturing Co., LTD
Address of Manufacturer: 58, Yinzhou Road, High and new tech park, Ningxiang, Changsha, Hunan, 410600, China
Factory: Changsha Zhonggu Intelligent Equipment Manufacturing Co., LTD
Address of Factory: 58, Yinzhou Road, High and new tech park, Ningxiang, Changsha, Hunan, 410600, China
Equipment Under Test (EUT):
EUT Name: Vending machine
Model No.: TCN-NSC-10C(V22),
TCN-CSC-10C(V22) ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: TCN
FCC ID: 2BMWQTCN2025001
Standard(s) : FCC Rules 47 CFR §2.1091
KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2024-10-16
Date of Test: 2024-10-18 to 2024-11-27
Date of Issue: 2024-11-28

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-11-28		Original

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



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2 General Information

2.1 General Description of E.U.T.

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

2.2 Details of E.U.T.

Power supply:	AC 120V/60Hz
Cable(s):	AC cable: 180cm unshielded with a fuse
For BT:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V4.2 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	Omni-directional Antenna
Antenna Gain:	-2.7dBi
For BLE:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V4.2 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Omni-directional Antenna
Antenna Gain:	-2.7dBi



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For 2.4G WiFi:	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	Omni-directional Antenna
Antenna Gain:	-2.7dBi

LTE module has got certified, FCC ID is XMR201909EC25AFX

WCDMA	
Operation Frequency Band:	WCDMA Band2, Band4, Band5
Modulation Type:	QPSK
Antenna Type:	Omni-directional Antenna
Antenna Gain:	WCDMA Band2: 0.3dBi, Band4: 0.3dBi, Band5: -1.4dBi
LTE	
LTE Operation Frequency Band:	LTE FDD Band 2,4,5,12,13,14, 66,71
Modulation Type:	QPSK, 16QAM
Antenna Type:	Omni-directional Antenna
Antenna Gain:	LTE B2: 0.3dBi; B4: 0.3dBi; B5: -1.4dBi; B12: -1.5dBi; B13: -1.5dBi; B14: -1.5dBi; B66: 0.3dBi; B71: 0.3dBi

This EUT has integrated POS1 and POS2, POS1 and POS2 has got certified,

POS1 FCC ID: V5PIM304GBW

POS2 FCC ID: 2AK6L-VPOST

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.



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Declaration of EUT Family Grouping:

Model No.: TCN-NSC-10C(V22), TCN-CSC-10C(V22)

Only the model TCN-NSC-10C(V22) was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on size.

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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2.3 Test Location

All tests were performed at:

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

No tests were sub-contracted.

2.4 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.



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3 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

4 Measurement and Calculation

Standalone transmission:

BT/Wi-Fi module

Mode	Maximum Conducted power (dBm)	Gain (dBi)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Ratio	Verdict
BT	-0.13	-2.7	0.0001	1.000	0.000	Pass
BLE	0.82	-2.7	0.0001	1.000	0.000	Pass
2.4G Wi-Fi	16.86	-2.7	0.005	1.000	0.005	Pass

Note1: The maximum BT conducted power refer to report SZCR241000383902.

Note2: The maximum BLE conducted power refer to report SZCR241000383903.

Note3: The maximum 2.4G Wi-Fi conducted power refer to report SZCR241000383904.

LTE Module

Mode	Maximum Conducted power (dBm)	Gain (dBi)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Ratio	Verdict
WCDMA Band II	25	0.3	0.067	1.000	0.067	Pass
WCDMA Band IV	25	0.3	0.067	1.000	0.067	Pass
WCDMA Band V	25	-1.4	0.046	0.551	0.083	Pass
LTE Band 2	25	0.3	0.067	1.000	0.067	Pass
LTE Band 4	25	0.3	0.067	1.000	0.067	Pass
LTE Band 5	25	-1.4	0.046	0.550	0.083	Pass
LTE Band 12	25	-1.5	0.045	0.466	0.096	Pass
LTE Band 13	25	-1.5	0.045	0.520	0.086	Pass
LTE Band 14	25	-1.5	0.045	0.527	0.085	Pass
LTE Band 66	25	0.3	0.067	1.000	0.067	Pass
LTE Band 71	25	0.3	0.067	0.444	0.152	Pass

Note: the maximum conducted power refer to the module MPE report , Report No: R1907A0408-M1V1



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POS 1

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Average EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
WCDMA Band 2	1852.4	2.01	24.50	26.510	447.713	0.089	1.000	0.089
WCDMA Band 4	1712.4	3.61	24.50	28.110	647.143	0.129	1.000	0.129
WCDMA Band 5	826.4	1.33	24.50	25.830	382.825	0.076	0.551	0.138
LTE Band 2	1850.7	2.01	24.00	26.010	399.025	0.079	1.000	0.079
LTE Band 4	1710.7	3.61	24.00	27.610	576.766	0.115	1.000	0.115
LTE Band 5	824.7	1.33	24.00	25.330	341.193	0.068	0.550	0.124
LTE Band 12	699.7	0.75	24.00	24.750	298.538	0.059	0.466	0.127
LTE Band 13	779.5	0.70	24.00	24.700	295.121	0.059	0.520	0.113
LTE Band 17	706.5	0.75	24.00	24.750	298.538	0.059	0.471	0.126
LTE Band 66	1710.7	3.61	24.00	27.610	576.766	0.115	1.000	0.115
LTE Band 71	706.5	0.65	24.00	24.650	291.743	0.058	0.471	0.123
Bluetooth	2402.0	1.70	9.00	10.700	11.749	0.002	1.000	0.002
2.4GHz WLAN	2412.0	1.70	16.50	18.200	66.069	0.013	1.000	0.013
5.2GHz WLAN	5180.0	2.30	15.00	17.300	53.703	0.011	1.000	0.011
5.3GHz WLAN	5260.0	2.30	15.00	17.300	53.703	0.011	1.000	0.011
5.5GHz WLAN	5500.0	2.30	15.00	17.300	53.703	0.011	1.000	0.011
5.8GHz WLAN	5745.0	2.30	15.00	17.300	53.703	0.011	1.000	0.011
NFC	13.6			-27.640	0.002	0.0000003	0.979	0.0000004

Note: the test data is refer to report FA380711

POS 2

Mode	Field strength dBuV/m@3m	Maximum EIRP (dBm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Ratio	Verdict
NFC	67.64	-27.51	0.0000003	0.979	< 0.01	Pass

Note: the field strength refer to report ES170727019E



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Simultaneous transmission POS 1 Simultaneous transmission

WWAN Power Density / Limit	Bluetooth Power Density / Limit	Σ (Power Density / Limit) of WWAN + Bluetooth
0.138	0.002	0.140

WWAN Power Density / Limit	WLAN 2.4GHz Power Density / Limit	Σ (Power Density / Limit) of WWAN + WLAN 2.4GHz
0.138	0.013	0.151
WWAN Power Density / Limit	WLAN 5GHz Power Density / Limit	Σ (Power Density / Limit) of WWAN + WLAN 5GHz
0.138	0.011	0.149

Total Simultaneous transmission

Test Mode	BT/Wi-Fi module	LTE module	POS 1	POS 2	Total Ratio	Limit	Verdict
Maximum Ratio	0.005	0.152	0.151	< 0.01	N/A	N/A	N/A
Scenario 1	☒		☒		0.157	1.0	Pass
Scenario 2	☒			☒	0.006	1.0	Pass
Scenario 3		☒	☒		0.303	1.0	Pass
Scenario 3		☒		☒	0.153	1.0	Pass

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

--End of the Report--



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