TL-1378

TEST REPORT

REPORT NO.: CTNT2603270130101

Product name: Smart Phone

Model No.: T8

Applicant: SHENZHEN TUGAO INTELLIGENT CO.,LTD

Test procedure: Entrustment Test

Shenzhen Zhongwei Testing Technology Co.,Ltd.

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

Tel：0755-28680489 E-mail：admin@ctnt-cert.com Web：www.ctnt-cert.com

TEST REPORT

Commission regulation (EU) 2023/1670 of 16 June 2023 laying down ecodesign requirements for smartphones, mobile phones other than smartphones, cordless phones and slate tablets pursuant to Directive 2009/125/EC of the European Parliament and of the Council and amending Commission Regulation

Commission delegated regulation (EU) 2023/1669 of 16 June 2023 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to the energy labelling of smartphones and slate tablets

Report Number.....:	CTNT2603270130101
Date of issue.....:	Apr.02,2026
Laboratory Name.....:	Shenzhen Zhongwei Testing Technology Co.,Ltd.
Testing location/ address.....:	Room 1A106, 1/F., No.109, Lijia Road, Henggang, Henggang Street, Longgang District, Shenzhen, Guangdong, China
Tested by(Test Engineer) .....:	Schale Zeng
Reviewed By(Supervisor).....:	Oliver Long
Approved by(Chief Engineer).....:	Flight Lee
Applicant's name.....:	SHENZHEN TUGAO INTELLIGENT CO.,LTD
Address.....:	NO.801,802,1001,1002,BldgA,Jingang Science & Technology Park,Fuhai Street,Qiaotou Community, Baoan District, Shenzhen, China
Manufacturer name.....:	SHENZHEN TUGAO INTELLIGENT CO.,LTD
Address.....:	NO.801,802,1001,1002,BldgA,Jingang Science & Technology Park,Fuhai Street,Qiaotou Community, Baoan District, Shenzhen, China
Factory name.....:	SHENZHEN TUGAO INTELLIGENT CO.,LTD
Address.....:	NO.801,802,1001,1002,BldgA,Jingang Science & Technology Park,Fuhai Street,Qiaotou Community, Baoan District, Shenzhen, China
Test specification:	
Standard..... :	(EU) 2023/1670 (EU) 2023/1669
Test time..... :	Mar.31,2026

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

General remarks:

"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

Other important notes:

1. If you have any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receipt of the report.

2. Entrusting test only responsible for the incoming samples, and the test results are used by the entrusting party to understand the quality of the samples.

3. This test report is invalid without the "test stamp".

4. This report may not be reproduced in part without permission to avoid ambiguous interpretation.

5. Test items with "*" are unauthorized items.

6. The remaining samples under test must be collected within three months of receipt of the inspection report. If the samples are not collected within the time limit, the laboratory will handle them by selves.

Company name: Shenzhen Zhongwei Testing Technology Co., Ltd.
Address: Room 1A106, 1/F., No.109, Lijia Road, Henggang, Henggang Street, Longgang District, Shenzhen, Guangdong, China

Tel: 086-755-28680489

Email: admin@ctnt-cert.com

Website: www.ctnt-cert.com

General product information:

- This product is Smart Phone.

- All tests are carried out on T8.

Test item description.....:	Smart Phone
Model/Type reference.....:	T8
Trade Mark.....:	HOTWAV
Ratings.....:	Adapter usage: Input: 100-240V~ 50/60Hz Output: 9V⎓2.22A

Possible test case verdicts:

- test case does not apply to the test object.....:	N/A
- test object does meet the requirement.....:	P (Pass)
- test object does not meet the requirement.....:	F (Fail)

Declared data for device source:

Rated Voltage/Frequency.....:	9V⎓2.22A
Rated power .....(W):	20W
Rated battery capacity..... (mAh):	6200mAh
Screen diagonal.....(cm):	16.6cm
Battery endurance .....(h):	71.16h
Ingress protection rating levels.....:	N/A
Energy Efficiency Index.....:	N/A

Attachments:

- Samples photo.

Summary of testing:

According to COMMISSION DELEGATED REGULATION (EU) 2023/1669 of 16 June 2023. The energy efficiency class of this product is A.

The Smart Phone meets the requirements of according to the implementation measure (EU) 2023/1670.

Generalremarks：

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testinglaboratory.
"(see Enclosure #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.
Throughout this report a comma (point) is used as the decimal separator.

Remark:

Test Report Form No.....:	EC_1670/1669
Version.....:	1.1

(EU) 2023/1669			
Clause	Requirement - Test	Result - Remark	Verdict

	Energy efficiency classes					P
A.	The energy efficiency class of a smartphone or a slate tablet shall be determined on the basis of its Energy Efficiency Index (EEI) as set out in Table 1 for smartphones and table 2 for slate tablets. The EEI of a smartphone or a slate tablet shall be determined in accordance with Annex IV, point 1.					P
Table 1	**Energy efficiency classes of smartphones**					P
	Energy Efficiency Class	Energy Efficiency Index (EEI)				P
	A (most efficient)	EEI > 2,70	EEI = 2.97 Energy efficiency classes: A			P
	B	2,30 < EEI ⩽ 2,70				N/A
	C	1,95 < EEI ⩽ 2,30				N/A
	D	1,66 < EEI ⩽ 1,95				N/A
	E	1,41 < EEI ⩽ 1,66				N/A
	F	1,20 < EEI ⩽ 1,41				N/A
	G (least efficient)	EEI ⩽ 1,20				N/A
Table 2	**Energy efficiency classes of slate tablets**					N/A
	Energy Efficiency Class	Energy Efficiency Index (EEI)				N/A
	A (most efficient)	EEI > 7,90				N/A
	B	6,32 < EEI ⩽ 7,90				N/A
	C	5,06 < EEI ⩽ 6,32				N/A
	D	4,04 < EEI ⩽ 5,06				N/A
	E	3,24 < EEI ⩽ 4,04				N/A
	F	2,59 < EEI ⩽ 3,24				N/A
	G (least efficient)	EEI ⩽ 2,59				N/A
B.	The repeated free fall reliability class of a smartphone or a slate tablet shall be determined on the basis of the number of falls without defect as set out in Table 3. The number of falls without defect shall be determined in accordance with Annex IV, point 4.					P
Table 3	**Repeated free fall reliability classes of smartphones and slate tablets**					P
		Falls without defect				P
	Repeated Free Fall Reliability Class	Non-foldable smartphone	Non-foldable slate tablet	Foldable smartphone	Foldable slate tablet	P
	A (most robust)	n ≥ 270	n ≥ 208	n ≥ 210 (in un-extended state) and n ≥ 45 (in fully extended state)	n ≥ 182 (in un-extended state) and n ≥ 20 (in fully extended state)	Non-foldable smartphone n ≥ 270 Fall reliability classes: A P

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.
Tel：0755-28680489 E-mail：admin@ctnt-cert.com Web：www.ctnt-cert.com

(EU) 2023/1669							
Clause	Requirement - Test			Result - Remark			Verdict
	B	180 ≤ n < 270	156 ≤ n < 208	140 ≤ n < 210 (in un-extended state) and 35 ≤ n < 45 (in fully extended state)	130 ≤ n < 182 (in un-extended state) and 15 ≤ n < 20 (in fully extended state)		N/A
	C	90 ≤ n < 180	104 ≤ n < 156	70 ≤ n < 140 (in un-extended state) and 25 ≤ n < 35 (in fully extended state)	78 ≤ n < 130 (in un-extended state) and 10 ≤ n < 15 (in fully extended state)		N/A
	D	45 ≤ n < 90	52 ≤ n < 104	35 ≤ n < 70 (in un-extended state) and 15 ≤ n < 25 (in fully extended state)	52 ≤ n < 78 (in un-extended state) and 5 ≤ n < 10 (in fully extended state)		N/A
	E (least robust)	-	n < 52	-	n < 52 (in un-extended state) and n < 5 (in fully extended state)		N/A
Fall test aborted	/						
C.	The repairability class of a smartphone or a slate tablet shall be determined on the basis of the repairability index as set out in Table 4. The repairability index shall be determined in accordance with Annex IV, point 5.						P
Table 4	**Repairability classes of smartphones and slate tablets**						P
	Repairability Class		Repairability Index (R)				P
	A (most repairable)		R ⩾ 4,00				N/A
	B		4,00 > R ⩾ 3,35				N/A
	C		3,35 > R ⩾ 2,55	R = 3.28 Repairability classes: C			P
	D		2,55 > R ⩾ 1,75				N/A
	E (least repairable)		1,75 > R ⩾ 1,00				N/A

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

(EU) 2023/1670			
Clause	Requirement - Test	Result - Remark	Verdict
ANNEX II	**Ecodesign requirements**		P
A.	**MOBILE PHONES OTHER THAN SMARTPHONES**		N/A
1.	**RESOURCE EFFICIENCY REQUIREMENTS**		N/A
1.2.	Design for reliability		N/A
	From 20 June 2025:		N/A
(1)	Resistance to accidental drops: Manufacturers, importers or authorised representatives shall ensure that the devices pass 45 falls without any protective foil or separate protective cover, except for foldable mobile phones other than smartphones designed to be used with a protective foil on the foldable display, without loss of functionality, following the test procedure set out in Annex III; foldable mobile phones other than smartphones designed to be used with a protective foil on the foldable display shall pass 35 falls in the un-extended state and 15 falls in the extended state, without loss of functionality, following the test procedure set out in Annex III and tested with the protective foil.		N/A
(2)	Scratch resistance: Manufacturers, importers or authorised representatives shall ensure that the screen of the device passes the hardness level 4 on the Mohs hardness scale, except for foldable mobile phones other than smartphones designed to be used with a protective foil on the foldable display.		N/A
(3)	Protection from dust and water: Manufacturers, importers or authorised representatives shall ensure that the devices are protected against the ingress of solid foreign objects of size bigger than 1 millimeter and splashing of water.		N/A
(4)	Battery endurance in cycles: Manufacturers, importers or authorised representatives shall ensure that the devices achieve at least 500 cycles at 80 % remaining capacity, to be tested under charging conditions where the charging rate is limited by the battery management system and not by the power delivery capabilities of the power supply.		N/A
(5)	Battery management:		N/A
	(i) manufacturers, importers or authorised representatives shall include an optional charging feature selectable by the user which terminates the charging process automatically, when the battery is charged to 80 % of its full capacity. When this feature is enabled, manufacturers, importers, or authorised representatives may enable the device to periodically fully charge the battery for the purposes of maintaining accurate battery state of charge estimates. The user shall be informed automatically when charging the		N/A

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

(EU) 2023/1670			
Clause	Requirement - Test	Result - Remark	Verdict
	device for the first time or during the installation process, that the life span of the battery can be extended if the feature is selected and the battery is regularly charged only to 80 % of its full capacity;		
	(ii) manufacturers, importers or authorised representatives shall provide a power management feature which by default ensures that once the battery is fully charged there is no further charging power supplied to the battery unless the charge level drops below 95 % of its maximum charge capacity.		N/A
(6)	Operating system updates:		N/A
	(a) from the date of end of placement on the market to at least 5 years after that date, manufacturers, importers or authorised representatives shall, if they provide security updates, corrective updates or functionality updates to an operating system, make such updates available at no cost for all units of a product model with the same operating system;		N/A
	(b) the requirement referred to in point (a) shall apply both to operating system updates offered voluntarily by manufacturers, importers or authorised representatives and to operating system updates provided to comply with Union law;		N/A
	(c) security updates or corrective updates mentioned under point (a) need to be available to the user at the latest 4 months after the public release of the source code of an update of the underlying operating system or, if the source code is not publicly released, after an update of the same operating system is released by the operating system provider or on any other product of the same brand;		N/A
	(d) functionality updates mentioned under point (a) need to be available to the user at the latest 6 months after the public release of the source code of an update of the underlying operating system or, if the source code is not publicly released, after an update of the same operating system is released by the operating system provider or on any other product of the same brand;		N/A
	(e) an operating system update may combine security, corrective and functionality updates.		N/A
B.	**SMARTPHONES**		P
1.	**RESOURCE EFFICIENCY REQUIREMENTS**		P
1.2.	Design for reliability		P
	From 20 June 2025:		P
(1)	Resistance to accidental drops: Manufacturers, importers or authorised representatives shall ensure		P

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

(EU) 2023/1670			
Clause	Requirement - Test	Result - Remark	Verdict
	that the devices pass 45 falls without any protective foil or separate protective cover, except for foldable smartphones designed to be used with a protective foil on the foldable display, without loss of functionality, following the test procedure set out in Annex III; foldable smartphones designed to be used with a protective foil on the foldable display shall pass 35 falls in the un-extended state and 15 falls in the extended state, without loss of functionality, following the test procedure set out in Annex III and tested with the protective foil.		
(2)	Scratch resistance: Manufacturers, importers or authorised representatives shall ensure that the screen of the device passes the hardness level 4 on the Mohs hardness scale, except for foldable smartphones designed to be used with a protective foil on the foldable display.	Hardness level: 6	P
(3)	Protection from dust and water: Manufacturers, importers or authorised representatives shall ensure that the devices are protected against the ingress of solid foreign objects of size bigger than 1 millimeter and splashing of water.	Protection rating levels: IP68	P
(4)	Battery endurance in cycles: Manufacturers, importers or authorised representatives shall ensure that the devices achieve at least 800 cycles at 80 % remaining capacity, to be tested under charging conditions where the charging rate is limited by the battery management system and not by the power delivery capabilities of the power supply.	⩾1000 cycles	P
(5)	Battery management:		P
	(i) manufacturers, importers or authorised representatives shall include an optional charging feature selectable by the user which terminates the charging process automatically, when the battery is charged to 80 % of its full capacity. When this feature is enabled, manufacturers, importers, or authorised representatives may enable the device to periodically fully charge the battery for the purposes of maintaining accurate battery state of charge estimates. The user shall be informed automatically when charging the device for the first time or during the installation process, that the life span of the battery can be extended if the feature is selected and the battery is regularly charged only to 80 % of its full capacity;		P
	(ii) manufacturers, importers or authorised representatives shall provide a power management feature which by default ensures that once the battery is fully charged there is no further charging power supplied to the battery unless the charge level drops		P

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

(EU) 2023/1670			
Clause	Requirement - Test	Result - Remark	Verdict
	below 95 % of its maximum charge capacity.		
(6)	Operating system updates:		P
	(a) from the date of end of placement on the market to at least 5 years after that date, manufacturers, importers or authorised representatives shall, if they provide security updates, corrective updates or functionality updates to an operating system, make such updates available at no cost for all units of a product model with the same operating system;		P
	(b) the requirement referred to in point (a) shall apply both to operating system updates offered voluntarily by manufacturers, importers or authorised representatives and to operating system updates provided to comply with Union law;		P
	(c) security updates or corrective updates mentioned under point (a) need to be available to the user at the latest 4 months after the public release of the source code of an update of the underlying operating system or, if the source code is not publicly released, after an update of the same operating system is released by the operating system provider or on any other product of the same brand;		N/A
	(d) functionality updates mentioned under point (a) need to be available to the user at the latest 6 months after the public release of the source code of an update of the underlying operating system or, if the source code is not publicly released, after an update of the same operating system is released by the operating system provider or on any other product of the same brand;		N/A
	(e) an operating system update may combine security, corrective and functionality updates;		P
	(f) when a functionality update provided by a manufacturer, importer or authorised representative shows a negative impact on device performance, manufacturers, importers or authorised representatives shall modify the released operating system to ensure at least the same performance as before the update within a reasonable period of time, free of charge and without causing significant inconvenience to the end-user, except if the end-user has given explicit consent for the negative impact prior to the update.		N/A
C.	**CORDLESS PHONES**		N/A
1.	**LOW POWER MODES**		N/A
	From 20 June 2025, manufacturers, importers or authorised representatives shall ensure that cordless phones meet the following requirements:		N/A

(EU) 2023/1670			
Clause	Requirement - Test	Result - Remark	Verdict
(1)	the networked standby power consumption Pn of a base station shipped with a cordless phone shall not exceed 1 W, regardless of whether a handset is on the base station;		N/A
(2)	the standby power consumption Pn of a charging cradle without base station functionality shipped with a cordless phone shall not exceed 0,6 W with the charged handset on the charging cradle and 0,3 W without the handset on the charging cradle.		N/A
D.	**SLATE TABLETS**		N/A
1.	**RESOURCE EFFICIENCY REQUIREMENTS**		N/A
1.2.	Design for reliability		N/A
	From 20 June 2025:		N/A
(1)	Scratch resistance: Manufacturers, importers or authorised representatives shall ensure that the screen of the device passes the hardness level 4 on the Mohs hardness scale, except for foldable slate tablets designed to be used with a protective foil on the foldable display.		N/A
(2)	Protection from accidental spills: Manufacturers, importers or authorised representatives shall ensure that the devices are protected against accidental spills of water.		N/A
(3)	Battery endurance in cycles: Manufacturers, importers or authorised representatives shall ensure that the devices achieve at least 800 cycles at 80 % remaining capacity, to be tested under charging conditions where the charging rate is limited by the battery management system and not by the power delivery capabilities of the power supply.		N/A
(4)	Battery management:		N/A
	(i) manufacturers, importers or authorised representatives shall include an optional charging feature selectable by the user which terminates the charging process automatically, when the battery is charged to 80 % of its full capacity. When this feature is enabled, manufacturers, importers, or authorised representatives may enable the device to periodically fully charge the battery for the purposes of maintaining accurate battery state of charge estimates. The user shall be informed automatically when charging the device for the first time or during the installation process, that the life span of the battery can be extended if the feature is selected and the battery is regularly charged only to 80 % of its full capacity;		N/A
	(ii) manufacturers, importers or authorised representatives shall provide a power management		N/A

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

(EU) 2023/1670			
Clause	Requirement - Test	Result - Remark	Verdict
	feature which by default ensures that once the battery is fully charged there is no further charging power supplied to the battery unless the charge level drops below 95 % of its maximum charge capacity.		
(5)	Operating system updates:		N/A
	(a) from the date of end of placement on the market to at least 5 years after that date, manufacturers, importers or authorised representatives shall, if they provide security updates, corrective updates or functionality updates to an operating system, make such updates available at no cost for all units of a product model with the same operating system;		N/A
	(b) the requirement referred to in point (a) shall apply both to operating system updates offered voluntarily by manufacturers, importers or authorised representatives and to operating system updates provided to comply with Union law;		N/A
	(c) security updates or corrective updates mentioned under point (a) need to be available to the user at the latest 4 months after the public release of the source code of an update of the underlying operating system or, if the source code is not publicly released, after an update of the same operating system is released by the operating system provider or on any other product of the same brand;		N/A
	(d) functionality updates mentioned under point (a) need to be available to the user at the latest 6 months after the public release of the source code of an update of the underlying operating system or, if the source code is not publicly released, after an update of the same operating system is released by the operating system provider or on any other product of the same brand;		N/A
	(e) an operating system update may combine security, corrective and functionality updates;		N/A
	(f) when a functionality update provided by a manufacturer, importer or authorised representative shows a negative impact on device performance, manufacturers, importers or authorised representatives shall modify the released operating system to ensure at least the same performance as before the update within a reasonable period of time, free of charge and without causing significant inconvenience to the end-user, except if the end-user has given explicit consent for the negative impact prior to the update.		N/A

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

Energy efficiency index (EEI)		
Calculation formula	$\frac{END_{Device}}{U_{nom} \times C_{rated}} \times 1000$	
Battery endurance	END_{device}	71.16 h
Nominal voltage	U_{nom}	3.87 V
Rated battery capacity	C_{rated}	6200 mAh
Calculation results	EEI	2.97 1/W

Where:

The battery endurance (END_{device}) in hours equals to the execution time of the specified test sequence: $END_{device} = END_{test}$

Test sequence for smartphones

From 100 % battery charge level to power off: repeat a cycle of:

— Phone call (4 min);
— Idle (30 min);
— Web browsing (9 min);
— Idle (30 min);
— Video streaming (4 min);
— Gaming (1 min);
— Idle (30 min);
— Data transfer: http upload and download (8 min);
— Idle (30 min);
— Video playback (4 min);

Test sequence for slate tablets

From 100 % battery charge level to power off: repeat a cycle of:

— Gaming (5 min);
— Idle (66 min);
— Web browsing (11 min);
— Idle (66 min);
— Video streaming (6 min);
— Idle (66 min);
— Data transfer: http upload and download (2 min);
— Idle (66 min);
— Video playback (6 min);
— Idle (66 min);

The 'Disassembly Depth' (S_{DD}) score calculated as follows:

DD_{BAT}	DD_{DA}	DD_{BC}	DD_{FFC}	DD_{RFC}
3	4	3	3	3
DD_{EC}	DD_{BUT}	DD_{MIC}	DD_{SPK}	DD_{FM}
3	3	3	3	-

(a)	if the hinge assembly or the mechanical display folding mechanism are not present in the product, the following formula shall be used:
Calculation formula	$S_{DD} = (DD_{BAT}*0,30) + (DD_{DA}*0,30) + (DD_{BC}*0,10) + (DD_{FFC}*0,05) + (DD_{RFC}*0,05) + (DD_{EC}*0,05) + (DD_{BUT}*0,05) + (DD_{MIC}*0,05) + (DD_{SPK}*0,05)$
Calculation results	S_{DD} = 3.30

(b)	if the hinge assembly or the mechanical display folding mechanism are present, the following formula shall be used:
Calculation formula	$S_{DD} = (DD_{BAT}*0,25) + (DD_{DA}*0,25) + (DD_{BC}*0,09) + (DD_{FFC}*0,04) + (DD_{RFC}*0,04) + (DD_{EC}*0,04) + (DD_{BUT}*0,04) + (DD_{MIC}*0,04) + (DD_{SPK}*0,04) + (DD_{FM}*0,17)$
Calculation results	-

Where:

-- BAT is the battery.
-- DA is the display assembly.
-- BC is the back cover or back cover assembly.
-- FFC is the front-facing camera assembly.
-- RFC is the rear-facing camera assembly.
-- EC is the external charging port.
-- BUT is the mechanical button.
-- MIC is the main microphone(s).
-- SPK is the speaker.
-- FM is the hinge assembly or the mechanical display folding mechanism.

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

The 'Fasteners (type)' (S_F) score is calculated as follow:				
F_{BAT}	F_{DA}	F_{BC}	F_{FFC}	F_{RFC}
3	3	3	3	3
F_{EC}	F_{BUT}	F_{MIC}	F_{SPK}	F_{FM}
3	1	1	3	-

(a)	for smartphones or slate tablets, except foldable ones, the following formula shall be used:
Calculation formula	$S_F = (F_{BAT}*0,30) + (F_{DA}*0,30) + (F_{BC}*0,10) + (F_{FFC}*0,05) + (F_{RFC}*0,05) + (F_{EC}*0,05) + (F_{BUT}*0,05) + (F_{MIC}*0,05) + (F_{SPK}*0,05)$
Calculation results	S_F = 2.80
(b)	for foldable smartphones or foldable slate tablets, the following formula shall be used:
Calculation formula	$S_F = (F_{BAT}*0,25) + (F_{DA}*0,25) + (F_{BC}*0,09) + (F_{FFC}*0,04) + (F_{RFC}*0,04) + (F_{EC}*0,04) + (F_{BUT}*0,04) + (F_{MIC}*0,04) + (F_{SPK}*0,04) + (F_{FM}*0,17)$
Calculation results	-

The 'Tools (type)' (S_T) score shall be calculated as follows:				
T_{BAT}	T_{DA}	T_{BC}	T_{FFC}	T_{RFC}
4	3	3	4	4
T_{EC}	T_{BUT}	T_{MIC}	T_{SPK}	T_{FM}
4	4	4	4	-

(a)	for smartphones or slate tablets, except foldable ones, the following formula shall be used:
Calculation formula	$S_T = (T_{BAT}*0,30) + (T_{SCR}*0,30) + (T_{BC}*0,10) + (T_{FFC}*0,05) + (T_{RFC}*0,05) + (T_{EC}*0,05) + (T_{BUT}*0,05) + (T_{MIC}*0,05) + (T_{SPK}*0,05)$
Calculation results	S_T = 3.60
(b)	for foldable smartphones or foldable slate tablets, the following formula shall be used:
Calculation formula	$S_T = (T_{BAT}*0,25) + (T_{SCR}*0,25) + (T_{BC}*0,09) + (T_{FFC}*0,04) + (T_{RFC}*0,04) + (T_{EC}*0,04) + (T_{BUT}*0,04) + (T_{MIC}*0,04) + (T_{SPK}*0,04) + (T_{FM}*0,17)$
Calculation results	-

The Repairability Index (R) shall be calculated as follows:					
S_{DD}	S_F	S_T	S_{SP}	S_{SU}	S_{RI}
3.30	2.80	3.60	4	3	3
Calculation formula	$R = (S_{DD}*0,25) + (S_F*0,15) + (S_T*0,15) + (S_{SP}*0,15) + (S_{SU}*0,15) + (S_{RI}*0,15)$				
Calculation results	R = 3.28				

Where:

-- S_{SP} is the 'Spare Parts' score.

-- S_{SU} is the 'Software Updates (duration)' score.

-- S_{RI} is the 'Repair Information' score.

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

Conclusion					
Item		Symbol	Unit	Tested	Verdict
Device type		☒ smartphone ☐ tablet			
Operating system		☒ Android ☐ iOS ☐ other			
Battery user-replaceable		☐ yes ☒ no			
Shipped with protective cover		☐ yes ☒ no			
Energy Efficiency Index		EEI	1/W	2.97	
Energy efficiency class		EEI	-	A	
Battery endurance per cycle		END_{device}	h	71.16	
Battery endurance in cycles – default settings		-	cycles	≥ 1000	P
Rated battery capacity		C_{rated}	mAh	6200	
Nominal voltage		-	V	3.87	
Final voltage for battery endurance in cycles test		-	V	3.94	
Repeated free fall reliability test – falls without defect		n	falls	≥ 270	P
Repeated free fall reliability test – falls without defect, tested in fully extended state		n	falls	N/A	
Repeated free fall reliability class		n	-	A	
Ingress protection rating		-	IPxx	IP68	P
Specified immersion depth in water		-	m	1.5	
Screen scratch resistance on Mohs hardness scale		-	Mohs hardness scale	6	P
Charger	Required output power	-	W	20	
	Receptacle type (at device end)	☐ USB-A ☐ USB-Micro B ☒ USB-C ☐ other			
Repairability Index		R	pt	3.28	
Repairability Class		R	-	C	
Disassembly Depth score		S_{DD}	pt	3.30	
Fasteners (type) score		S_F	pt	2.80	
Tools (type) score		S_T	pt	3.60	
Spare Part score		S_{SP}	pt	4	
Software Updates (duration) score		S_{SU}	pt	3	
Repair Information score		S_{RI}	pt	3	
Operating system version		-	TEXT	Android 16	
Minimum guaranteed availability of operating system security updates, corrective updates and functionality updates		-	years	6	

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

Samples photo



Photo 1: Sample Appearance



Photo 2: Sample Appearance

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.
Tel：0755-28680489 E-mail：admin@ctnt-cert.com Web：www.ctnt-cert.com

Samples photo



Photo 3: Sample Appearance



Photo 4: Sample Appearance

---END OF REPORT--

This report may not be reproduced in part without permission to avoid ambiguous interpretation.
This report can be checked and verified in the following ways.

Tel：0755-28680489 E-mail：admin@ctnt-cert.com Web：www.ctnt-cert.com