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Test Report   Report Number: 250407054SZN-001

Applicant Name: Honor Device Co., Ltd.	Report Date: Apr. 15, 2025

Applicant Address: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China

Manufacturer:	Honor Device Co., Ltd.
Manufacturer address:	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Brand name	HONOR
Model	DNY-NX9
Serial number	N/A (Engineering sample)
Receipt condition	Intact
Sample receipt date	Oct. 26, 2024
Date(s) of performance of tests	Oct. 27, 2024 to Apr. 07, 2025
Ratings	Supply by External Power Supply via USB-C port

Tests Conducted:
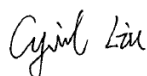As requested by the applicant, for details refer to test standards in page 4.

Conclusion:
The energy efficiency index (EEI) is 2.84, Energy efficiency class is A, Repairability Class is B.

These results are in compliance with the requirements of COMMISSION DELEGATED REGULATION (EU) 2023/1669.

Tested by：

(signature)

_____
Cyril Liu
Project Engineer

Approved by:

(signature)

_____
Ken Qin
Sr. Project Engineer

TRF No. EU2023/1669a   Effective date: 10 September 2024

General product information:
The product covered by this report is a smartphone which is non-foldable type.

DNY-NX9 is subscriber equipment in the GSM/WCDMA/LTE/5G NR system. The Mobile Phone implements such functions as RF signal receiving/transmitting LTE/HSPA/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, AGPS, WIFI etc. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices.

The unit is supplied by 3.84VDC, 5170mAh Li-ion rechargeable battery and charged by Type-C port.

Note:
UUT: Unit Under Test.
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.

Product information:

Parameter	Value
Device type	smartphone
Operating system	Android
Operating system version	MagicOS 9.0
Energy efficiency class	A
Battery user-replaceable	yes
Battery endurance per cycle (END_{device} [h])	56.46h (56h28min)
Battery endurance in cycles – default settings [cycles]	⩾1200
Rated battery capacity (C_{rated} [mAh])	5170
nominal voltage [V]	3.84
Final voltage for battery endurance in cycles test [V]	3.10
Shipped with protective cover	no
Repeated free fall reliability test – falls without defect [n]	⩾ 180
Repeated free fall reliability test – falls without defect, tested in fully extended state [n]	N/A
Repeated free fall reliability class	A
Ingress protection rating	IP65
Specified immersion depth in water, in case of IPx8 [m]	N/A
Screen scratch resistance on Mohs hardness scale	4
Charger	Required output power [W]	10
	Receptacle type (at device end)	USB-C
Minimum guaranteed availability of operating system security updates, corrective updates and functionality updates (years)	5
Repairability Class (based on the index below)	B
Repairability Index	3.63
Disassembly Depth (S_{DD}) score	3.80
Fasteners (type) score (S_F)	3.60
Tools (type) score (S_T)	4.30
Spare Part score (S_{SP})	4.00
Software Updates (duration) score (S_{SU})	1.00
Repair Information score (S_{RI})	5.00
Weblink to information on spare parts availability for professional repairers and end users	https://www.honor.gsmnet.eu
Weblink to repair instructions for end-users	https://www.honor.com/de/support/self-repair
Weblink to indicative pre-tax prices	https://www.honor.gsmnet.eu
Minimum duration of the guarantee offered by the supplier [months]	24
Energy Efficiency Index (EEI)	2.84

Test Report

Standard and environmental condition

Test laboratory	Honor Compliance and Testing Center of Honor Device Co., Ltd.
Address	Jiawei industrial park, No. 2, Jinsheng 4th Road, Laokeng community, Longtian Subdistrict, Pingshan District, Shenzhen, Guangdong, China
Standard applied	(EU) 2023/1669; EN 45554:2020; EN 15771:2010; IEC EN 61960-3:2017; IEC 60529:1989+AMD2:2013; EEI test specifications; IEC 60068-2-31
Ambient temp.	Battery Endurance test: 20 ºC±5 ºC Energy Efficiency Index test: 23 ºC±5 ºC Protection From Dust and Water test: 15-35 ºC

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 requiremen.........:   F (Fail)

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Clause	Subject matter and scope	Remark	Verdict
Article 4	Conformity assessment	The smartphone meet the requirement	PASS
4	The requirements in points A, B and C of Annex II shall not apply to the some displays:		N/A

Clause	Ecodesign requirements	Remark	Verdict
ANNEX II	Energy efficiency classes		PASS
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.	Table 1 for smartphone.	PASS
	Table 1 Energy efficiency classes of smartphones 	Energy Efficiency Class	Energy Efficiency Index (EEI)
---	---
A (most efficient)	EEI > 2,70
B	2,30 < EEI ≤ 2,70
C	1,95 < EEI ≤ 2,30
D	1,66 < EEI ≤ 1,95
E	1,41 < EEI ≤ 1,66
F	1,20 < EEI ≤ 1,41
G (least efficient)	EEI ≤ 1,20		Bttery endurance (END_{device}) =56.46 h, END_{device} = END_{test}, U_{nom} = 3.84 V, C_{rated} = 5170 mAh, $$EEI = \frac{END_{Device}}{U_{nom} \times C_{rated}} \times 1000$$ EEI = 56.46*1000/(3.84*5170) =2.84 The smartphone complied with Class A for EEI.	--
	Table 2 Energy efficiency classes of slate tablets 	Energy Efficiency Class	Energy Efficiency Index (EEI)
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A (most efficient)	EEI > 7,90
B	6,32 < EEI ≤ 7,90
C	5,06 < EEI ≤ 6,32
D	4,04 < EEI ≤ 5,06
E	3,24 < EEI ≤ 4,04
F	2,59 < EEI ≤ 3,24
G (least efficient)	EEI ≤ 2,59			--
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.	Table 3 for smartphone.	Pass

Clause	Ecodesign requirements	Remark	Verdict
	Table 3 Repeated free fall reliability classes of smartphones and slate tablets (see table below)	Non-Foldable smartphone type, Tested for five samples, the 180 ≤ n < 270, The smartphone complied with Class B for Repeated Free Fall Reliability	--
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.	Table 4 for smartphone.	Pass
	Table 4 Repairability classes of smartphones and slate tablets (see table below)	$S_{DD} = 3.8$ $S_F = 3.6$ $S_T = 4.3$ $S_{SP} = 4$ $S_{SU} = 1$ $S_{RI} = 5$ $R = (S_{DD}*0,25)+(S_F*0,15)+ (S_T*0,15)+ (S_{SP}*0,15)+(S_{SU}*0,15)+(S_{RI}*0,15) = 3.63$ The smartphone complied with Class B for Reparability Index	--
ANNEX III	Label for smartphones and slate tablets		Pass
	LABEL FOR SMARTPHONES AND SLATE TABLETS	Refer to the energy label	Pass
ANNEX IV	Measurement and calculation methods		Pass
1	CALCULATION OF THE ENERGY EFFICIENCY INDEX	EEI test for smartphone	Pass
1.1	General device settings and configuration	considered	Pass
1.2	Test sequence		Pass
1.2.1	Test sequence for smartphones	considered	Pass
1.2.2	Test sequence for slate tablets		N/A
1.3	Calculation		--

Table 3

Repeated free fall reliability classes of smartphones and slate tablets

Repeated Free Fall Reliability Class	Falls without defect			
	Non-foldable smartphone	Non-foldable slate tablet	Foldable smartphone	Foldable slate tablet
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)
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)
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)
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)
E (least robust)	-	n < 52	-	n < 52 (in un-extended state) and n < 5 (in fully extended state)

Table 4

Repairability classes of smartphones and slate tablets

Repairability Class	Repairability Index (R)
A (most repairable)	R ≥ 4,00
B	4,00 > R ≥ 3,35
C	3,35 > R ≥ 2,55
D	2,55 > R ≥ 1,75
E (least repairable)	1,75 > R ≥ 1,00

Clause	Ecodesign requirements	Remark	Verdict
	The battery endurance (ENDdevice) in hours equals to the execution time of the specified test sequence: ENDdevice = ENDtest where ENDtest is the run-time of the test in hours, rounded to two decimal places. he energy efficiency index (EEI) of a smartphone or slate tablet shall be calculated using the following equation and rounded to two decimal places: $$EEI = \frac{END_{Device}}{U_{nom} \times C_{rated}} \times 1000$$	Bttery endurance (END_{device}) =56.46 h, $END_{device} = END_{test}$, U_{nom} = 3.84 V, C_{rated} = 5170 mAh, $$EEI = \frac{END_{Device}}{U_{nom} \times C_{rated}} \times 1000$$ EEI = 56.46*1000/(3.84*5170) =2.84	--
2	MEASUREMENT OF THE BATTERY ENDURANCE IN CYCLES	Battery endurance in cycles: ≥1200	Pass
3	MEASUREMENT OF THE INGRESS PROTECTION	IP65 for smartphones.	Pass
4	RESISTANCE TO ACCIDENTAL DROPS OR REPEATED FREE FALL RELIABILITY	Tested for 5pcs. For Non-Foldable Smartphone, The defect in 2nd check: A sample showed green screen flashing and internal screen leakage. The defect in 4th check: The other two samples had internal screen leakage, resulting in large black spots. 180 ≤ n < 270	Pass
5	METHOD FOR THE CALCULATION OF THE REPAIRABILITY INDEX OF SMARTPHONES AND SLATE TABLETS		Pass
	The same scoring methodology shall apply to both smartphones and slate tablets. The Repairability Index (R) shall be calculated as follows: R = $(S_{DD}*0,25)+(S_F*0,15)+ (S_T*0,15)+ (S_{SP}*0,15)+(S_{SU}*0,15)+(S_{RI}*0,15)$	S_{DD} = 3.8 S_F = 3.6 S_T = 4.3 S_{SP} = 4 S_{SU} = 1 S_{RI} = 5 R = $(S_{DD}*0,25)+(S_F*0,15)+ (S_T*0,15)+ (S_{SP}*0,15)+(S_{SU}*0,15)+(S_{RI}*0,15)$ = 3.63	Pass

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Intertek Testing Services Shenzhen Ltd. Longhua Branch   Page 7 of 17
No.101&201, Building B, No. 308, Wuhe Avenue, Zhangkengjing, GuanHu Subdistrict,
LongHua District, Shenzhen, Guangdong, China
Tel: (86 755) 8601 6288   Fax: (86 755) 8601 6751   Website: www.china.intertek-etlsemko.com

Clause	Ecodesign requirements	Remark	Verdict
	If any of the priority parts is present in a product more than once, only the one which delivers the lowest score shall be considered in the calculation of the 'Disassembly Depth' (SDD), 'Fasteners (type)' (SF) and 'Tools (type)' (ST) scores. If a priority part is not present in the product, the highest point level for each score shall be considered for this part.		Pass
	The 'Disassembly Depth' (S_{DD}) score shall be calculated as follows:		Pass
	If the hinge assembly or the mechanical display folding mechanism are not present in the product, the following formula shall be used: $S_{DD} = (DD_{BAT}*0,30)+ (DD_{DA}*0,30)+ (DD_{BC}*0,10)+(DD_{FFC}*0,05)+(DD_{RFC}*0,05)+(DD_{EC}*0,05)+(DD_{BUT}*0,05) +(DD_{MIC}*0,05)+(DD_{SPK}*0,05)$	$DD_{BAT}= 4$, $DD_{DA}= 3$, $DD_{BC}= 5$, $DD_{FFC}= 4$, $DD_{RFC}= 4$, $DD_{EC}= 4$, $DD_{BUT}= 4$, $DD_{MIC}= 4$, $DD_{SPK}= 4$ So, $S_{DD} = 3.8$	Pass
	if the hinge assembly or the mechanical display folding mechanism are present, the following formula shall be used: $SDD = (DD_{BAT}*0,25)+ (DD_{DA}*0,25)+ (DD_{BC}*0,09)+(DD_{FFC}*0,04)+(DD_{RFC}*0,04)+(DD_{EC}*0,04)+(DD_{BUT}*0,04) +(DD_{MIC}*0,04)+(DD_{SPK}*0,04)+ (DD_{FM}*0,17).$		N/A
	The Disassembly Depth score (DDi) for each priority part i (DD_{BAT}; DD_{DA}, DD_{BC}, DD_{FFC}, DD_{RFC}, DD_{EC}, DD_{BUT}, DD_{MIC}, DD_{SPK}, DD_{FM}) shall be calculated based on the number of steps required to remove a part from a product, without damaging the product. The counting of the steps for each part starts from the product fully assembled, with the charger disconnected and any SIM card installed. Points ranging from 1 to 5 are assigned as follows: — DDi ⩽ 2 steps = 5 pt. — 5 steps ⩾ DDi > 2 steps = 4 pt. — 10 steps ⩾ DDi > 5 steps = 3 pt. — 15 steps ⩾ DDi > 10 steps = 2 pt. — DDi > 15 steps = 1 pt.	4 steps for BAT, 7 steps for DA, 2 steps for BC, 4 steps for FFC, 4 steps for RFC, 5 steps for EC, 4 steps for BUT, 5 steps for MIC, 4 steps for SPK. So, $DD_{BAT}= 4$, $DD_{DA}= 3$, $DD_{BC}= 5$, $DD_{FFC}= 4$, $DD_{RFC}= 4$, $DD_{EC}= 4$, $DD_{BUT}= 4$, $DD_{MIC}= 4$, $DD_{SPK}= 4.$	Pass
	The 'Fasteners (type)' (S_F) score is calculated as follow:		Pass

Clause	Ecodesign requirements	Remark	Verdict
	For smartphones or slate tablets, except foldable ones, the following formula shall be used: $S_F=(F_{BAT}*0,30)+(F_{DA}*0,30)+(F_{BC}*0,10)+(F_{FFC}*0,05)+(F_{RFC}*0,05)+(F_{EC}*0,05)+(F_{BUT}*0,05)+(F_{MIC}*0,05)+(F_{SPK}*0,05)$	$F_{BAT}=3$ $F_{DA}=3$ $F_{BC}=3$ $F_{FFC}=5$ $F_{RFC}=5$ $F_{EC}=5$ $F_{BUT}=5$ $F_{MIC}=5$ $F_{SPK}=5$ So, $S_F=3.6$	Pass
	For foldable smartphones or foldable slate tablets, the following formula shall be used: $S_F=(F_{BAT}*0,25)+(F_{DA}*0,25)+(F_{BC}*0,09)+(F_{FFC}*0,04)+(F_{RFC}*0,04)+(F_{EC}*0,04)+(F_{BUT}*0,04)+(F_{MIC}*0,04)+(F_{SPK}*0,04)+(F_{FM}*0,17)$		N/A
	The 'Fasteners (type)' scores (F_i) for each priority part i (F_{BAT}, F_{DA}, F_{BC}, F_{FFC}, F_{RFC}, F_{EC}, F_{BUT}, F_{MIC}, F_{SPK}, F_{FM}) are assigned according to the level of removability and reusability of the fasteners used in the device assembly. Points ranging from 1 to 5 are assigned as follows: — Reusable Fasteners = 5 pt. — Resupplied Fasteners = 3 pt. — Removable Fasteners = 1 pt.	Resupplied for BAT, Resupplied for DA, Resupplied for BC, Reusable for FFC, Reusable for RFC, Reusable for EC, Reusable for BUT, Reusable for MIC, Reusable for SPK. So, $F_{BAT}=3$ $F_{DA}=3$ $F_{BC}=3$ $F_{FFC}=5$ $F_{RFC}=5$ $F_{EC}=5$ $F_{BUT}=5$ $F_{MIC}=5$ $F_{SPK}=5$	Pass
	The 'Tools (type)' (S_T) score shall be calculated as follows:		Pass
	For smartphones or slate tablets, except foldable ones, the following formula shall be used: $S_T=(T_{BAT}*0,30)+(T_{SCR}*0,30)+(T_{BC}*0,10)+(T_{FFC}*0,05)+(T_{RFC}*0,05)+(T_{EC}*0,05)+(T_{BUT}*0,05)+(T_{MIC}*0,05)+(T_{SPK}*0,05)$	$T_{BAT}=5$ $T_{DA}=4$ $T_{BC}=3$ $T_{FFC}=5$ $T_{RFC}=5$ $T_{EC}=4$ $T_{BUT}=4$ $T_{MIC}=4$ $T_{SPK}=4$ So, $S_T=4.3$	Pass

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LongHua District, Shenzhen, Guangdong, China
Tel: (86 755) 8601 6288   Fax: (86 755) 8601 6751   Website: www.china.intertek-etlsemko.com

Clause	Ecodesign requirements	Remark	Verdict
	For foldable smartphones or foldable slate tablets, the following formula shall be used: $S_T=(T_{BAT}*0,25)+(T_{SCR}*0,25)+(T_{BC}*0,09)+(T_{FFC}*0,04)+(T_{RFC}*0,04)+(T_{EC}*0,04)+(T_{BUT}*0,04)+(T_{MIC}*0,04)+(T_{SPK}*0,04)+(T_{FM}*0,17)$		N/A
	The 'Tools (type)' scores (Ti) for each priority part i (T_{BAT}, T_{DA}, T_{BC}, T_{FFC}, T_{RFC}, T_{EC}, T_{BUT}, T_{MIC}, T_{SPK} and T_{FM}) are assigned according to the complexity and availability of the tools needed for its replacement. Points ranging from 1 to 5 are assigned as follows: — No tools = 5 pt; — Basic tools = 4 pt. — A set of tools that is supplied (or offered to be supplied at no additional cost) with the spare part = 3 pt. — A set of tools that is supplied (or offered to be supplied at no additional cost) with the product = 2 pt. — Commercially available tools = 1 pt.	No tools for BAT, FFC and RFC; Basic tools for DA, EC, BUT, MIC and SPK, Tools supplied with spare part for BC So, T_{BAT} = 5 T_{DA} = 4 T_{BC} = 3 T_{FFC} = 5 T_{RFC} = 5 T_{EC} = 4 T_{BUT} = 4 T_{MIC} = 4 T_{SPK} = 4	Pass

Clause	Ecodesign requirements	Remark	Verdict
	The 'Spare Parts' (S_{SP}) score shall be calculated at product level as follows: — Spare parts for all priority parts are available to end users and professional repairers = 5 pt; — Spare parts for display assembly, battery, back cover (or back cover assembly) and cameras are available to end users and professional repairers; spare parts for all other parts are available to professional repairers = 4 pt; — Spare parts for display assembly, battery and back cover (or back cover assembly) are available to end users and professional repairers; spare parts for all other parts are available to professional repairers = 3 pt; — Spare parts for display assembly and battery are available to end users and professional repairers; spare parts for all other parts are available to professional repairers = 2 pt; — Spare parts for display assembly are available to end users and professional repairers; spare parts for all other parts are available to professional repairers = 1 pt; — Spare parts for the hinge assembly, mechanical display folding mechanism are to be available only in case of foldable smartphones.	The DISPLAY + BATTERY + BACKCOVER + CAMERAS are available to end users and professional repairers, and all spare parts for professional repairers. So, $S_{sp} = 4$	Pass

Clause	Ecodesign requirements	Remark	Verdict
	The 'Software Updates (duration)' (S_{SU}) score shall be calculated at product level as follows: — Minimum guaranteed availability of security updates, corrective updates and functionality updates to the operating system for at least 7 years = 5 pt. — Minimum guaranteed availability of security updates, corrective updates and functionality updates to the operating system for 6 years = 3 pt. — Minimum guaranteed availability of security updates, corrective updates and functionality updates to the operating system for 5 years = 1 pt. — The above durations refer to years from the date of end of placement on the market of the product model.	Software Updates 5 years. So, $S_{su} = 1$	Pass
	The **Repair Information (S_{RI})** score shall be calculated at product level as follows: — Public availability of repair and maintenance information, except electronic board diagrams, at no cost for end users and availability of repair and maintenance information, including electronic board diagrams, at no cost for professional repairers = 5 pt. — Availability of repair and maintenance information at no cost for professional repairers = 3 pt. — Availability of repair and maintenance information with a reasonable and proportionate fee for professional repairers = 1 pt. — A fee shall be considered reasonable if it does not discourage access by failing to take into account the extent to which the professional repairer uses the information.	End-users at no cost for Repair Information. So, $S_{RI} = 5$	Pass

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Rating Label:

HONOR

Honor Device Co., Ltd. Shenzhen, 518040, P.R.C.
Made in China Model:DNY-NX9

Component list

Object	Manufacturer	Model	Mark(s) of conformity
Rechargeable Li-Ion polymer battery pack	HONOR (Factory: SCUD)	HB486692EIW	Tested with appliance
(Alternative)	HONOR (Factory: Desay)	HB486692EIW	Tested with appliance
Rear enclosure (Glass)	Interchangeable	Interchangeable	Tested with appliance
Side enclosure (Metal)	Interchangeable	Interchangeable	Tested with appliance
Screen	TIANMA	HD167	Tested with appliance
(Alternative)	Visionox	HD167	Tested with appliance

Photos of the appliance:

Photo 1, External view of UUT

Photo 2, External view of UUT

Photo 3, Internal view of UUT

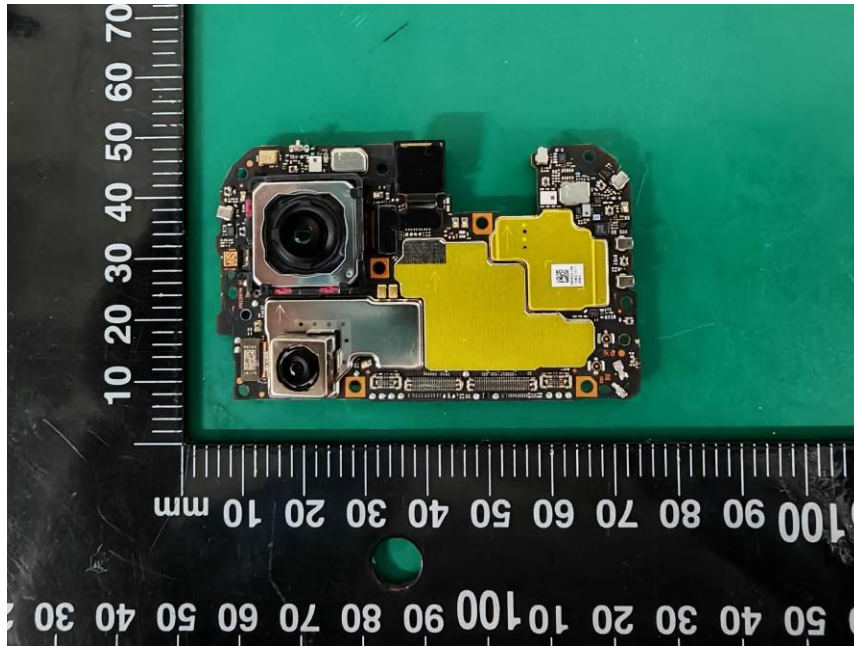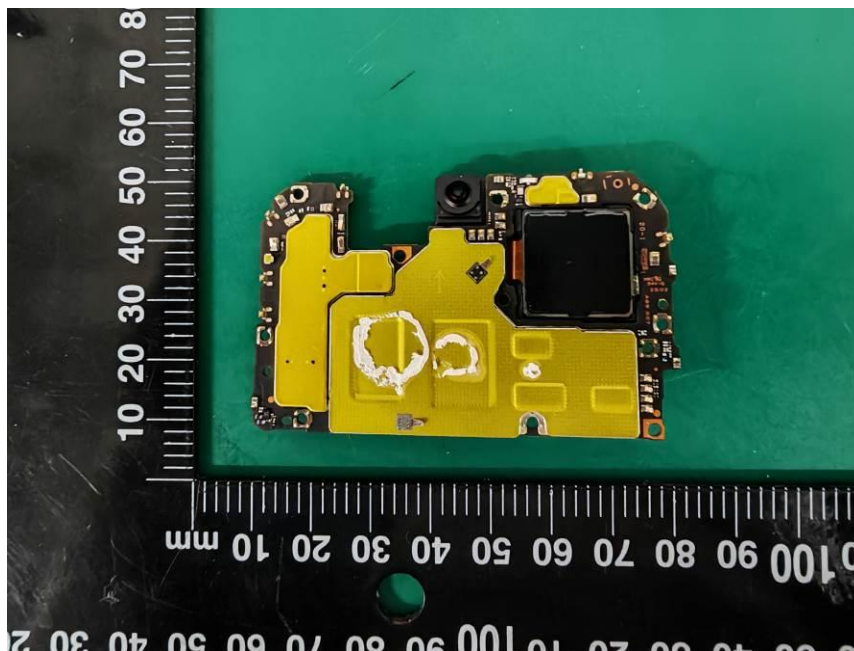Photo 4, Internal view of UUT

Photo 5, PCB view of UUT
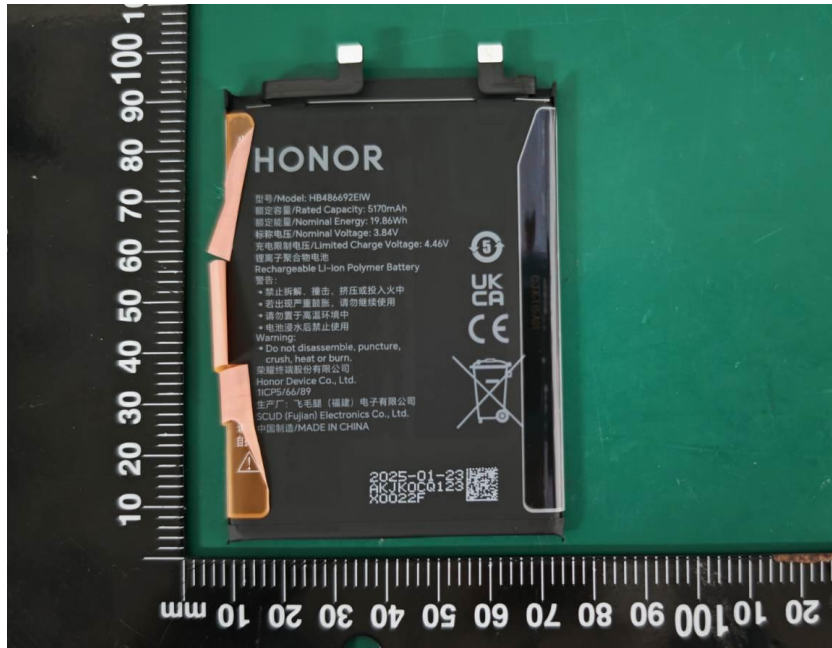

Photo 6, PCB view of UUT
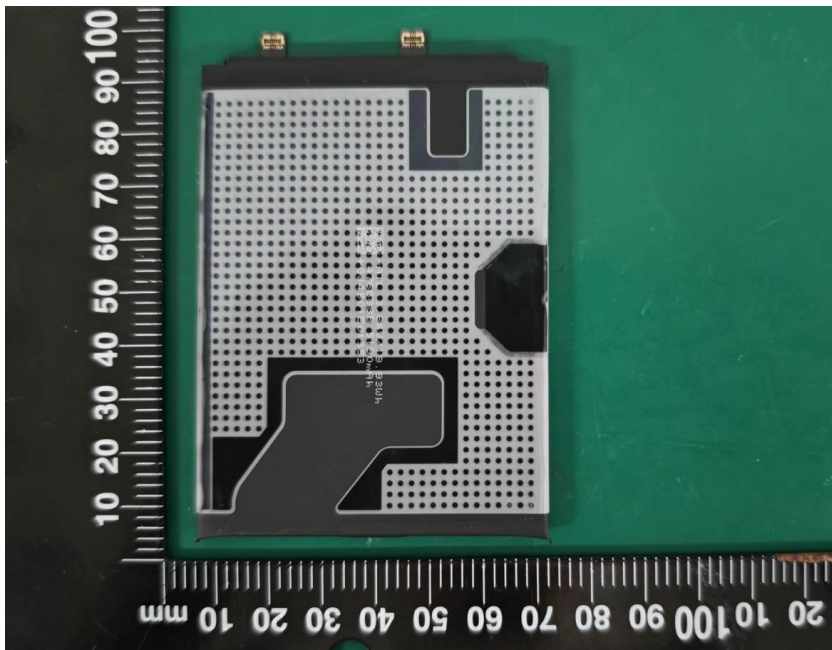
Photo 7, battery view of UUT

Photo 8, battery view of UUT

******************************** The End of Report****************************