

PAE PTCRB AWARD OF EXCELLENCE

Sporton International Inc.

TEST REPORT

Integrated Device

Test of: Blues Inc. – NOTE-WBNAN

To:
Conformance Test Cases (NAPRD03 V6.11)

Test Report Serial No: PC462905 Test Report Version: Rev. 01 PTCRB Request No: 126623

Issue Date: 11 December 2024

Declaration by Test Laboratory

The E-UTRA testing performed and shown in this report by Sporton International Inc. Mobile Communications Laboratory was conducted as per the requirements of the PTCRB (PCS Type Certification Review board).

This report is issued in Adobe Acrobat portable document format (PDF). It is only a valid copy of the report if it is being viewed in PDF format with the following security options not allowed: Changing the document, Selecting text and graphics, Adding or changing notes and form fields. Furthermore, the date of creation must match the issue date stated above. The results in this report apply only to the sample(s) tested.

Nita Huang Ryan Chen

Project Manager

Technical Manager / Reviewer











Declaration of Conformity: The test results with all measurement uncertainty excluded are in accordance with the standards from SDOs (Standard Development Organization). The test plan assessment was based on the manufacturer's declaration from PICS/PIXIT/ICS.

Comments and Explanations: The declared values of supply voltages (Normal, Maximum, Minimum) for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of the values. The declared values of PICS/PIXIT/ICS for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of the PICS/PIXIT/ICS.

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Revision History

Report Number	Revision	Description	Issue Date
PC462905	Rev. 01	Initial Version	11 December 2024

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1 Details of Test

1.1 Branding Manufacturer - Applicant

Address:	Blues Inc. 50 Harbor Street Manchester, MA 01944 United States
Contact Name:	Rob Yomtov ryomtov@blues.com

Note 1: Applicant is the company applying for the certification and should be same as "manufacturer" on the GCF or PTCRB database.

Note 2: Applicant is considered as the owner of the test report if no other statement.

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1.2 Test Lab of Report Issue

Address:	Sporton International Inc. Mobile Communications Laboratory No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
Contact Name:	Mr. Hendry Yang, Laboratory Manager
TAF Lab Code:	1533

1.3 Location of Test

1.3.1 Test Location

Address:	Sporton International Inc. Mobile Communications Laboratory No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
Contact Name:	Mr. Hendry Yang, Laboratory Manager
TAF Lab Code:	1533

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1.4 Test Environment

Testing Start Date:	11 September 2024	
Testing End Date:	04 October 2024	

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient Condition	21~31	26~61
Maximum Extreme	+55	N.A.
Minimum Extreme	-10	N.A.

Integrated Device Supply Voltage

Maximum Extreme Supply Voltage (V d.c.):	5.5
Normal Supply Voltage (V d.c.):	5.0
Minimum Extreme Supply Voltage (V d.c.):	2.5

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2 Details of Equipment under Test

2.1 Final Equipment Build Status

The following is the build status for which compliance has been demonstrated by test and declaration

The insertion loss from the antenna cable and/or connector from the EUT is provided by the manufacturer, Sporton International Inc. does not guarantee the accuracy of the values.

2.1.1 Product Build Status

Model Name:	NOTE-WBNAN	
Product type:	Notecard	
RAN (Radio Access Network):	UTRA / E-UTRA	
Hardware Version:	2	
Software Version:	7	
SVN (Software Version Number):	31	

Product Operation band(s) please reference to section Key Features Supported.

2.1.2 Module Build Status

Manufacturer Name:	Quectel	
Model Name:	EG91-NAXD	
RAN (Radio Access Network):	UTRA / E-UTRA	
UTRA Operating Band(s)	FDDII / FDDIV / FDDV	
E-UTRA Operating Band(s)	FDD2 / FDD4 / FDD5 / FDD12 / FDD13 / FDD25 / FDD26	
Hardware Version:	R1.0	
Software Version:	EG91NAXDGAR07A01M1G	
SVN (Software Version Number):	31	

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2.1.3 Key Features Supported

The following Table defines the key features supported in the device.

Feature	Supported	Release/Comments
RAN	Υ	UTRA / E-UTRA
UTRA Operating Band(s)	Υ	FDDII / FDDIV / FDDV
E-UTRA Operating Band(s)	Υ	FDD2 / FDD4 / FDD5 / FDD12 / FDD13 / FDD25 / FDD26
HSDPA	Y	Supported
HSUPA	Y	Supported
E-UTRA DL Category	Y	Cat 1
E-UTRA UL Category	Υ	Cat 1

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2.2 Identification of Samples Tested

The following summary may be used to identify the samples referenced in the test summary and any declared hardware or software modifications. Where modifications have been made, conformance has been demonstrated by regression testing declared by the manufacturer.

Sample Reference	IMEI	Hardware Version	Software Version	Date of Receipt	Note
05.01.01	860322060156491	Host: 2 Module: R1.0	Host: 7 Module: EG91NAXDGAR07A01M1G	11-Sep-24	

Description of Sporton Reference sample number E.g. 02.01.03

02 – Sample Identification	01 - Hardware Version	03 - Software Version
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2.3 Description of Product

The EUT (Equipment Under Test) is a Notecard, operating in UTRA / E-UTRA bands listed in Section 2.1.3.

2.4 Generation of Conformance Test Plan

The following route has been chosen by the manufacturer to demonstrate compliance.

2.4.1 Module Integration Certification

Testing based on and according to the information supplied within the device integration information to:

NAPRD03 V6.11

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2.5 Support Equipment

The following support equipment was used to exercise the EUT during testing.

Description	Power Cable and Power Supply
Manufacturer Name	None stated
Model Name or Number	None stated
Serial Number	None stated
Description	Test Jig ; modular jig and fixture
Manufacturer Name	None stated
Model Name or Number	None stated
Serial Number	None stated
Description	RF Cable
Manufacturer Name	None stated
Model Name or Number	None stated
Serial Number	None stated
	·
Description	AC Charger
Manufacturer Name	None stated
Model Name or Number	None stated
Serial Number	None stated
Description	USB Cable
Manufacturer Name	None stated
Model Name or Number	None stated
Serial Number	None stated

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3 Reference Documents

Testing was performed according to the following reference documents and standards applicable to the EUT.

Document	Title
NAPRD03 V6.11	Overview of PCS Type certification review board (PTCRB) Mobile Equipment Type Certification and IMEI control
3GPP TS 36.521-1	3rd Generation Partnership Project; LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing
3GPP TS 36.523-1	3rd Generation Partnership Project; LTE; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification
3GPP TS 36.124	3rd Generation Partnership Project; Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment
ETSI TS 102 230-1	Smart cards; UICC-Terminal interface; Physical, electrical and logical test specification Part 1: Terminal features

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4 Test Results

4.1 Result Summary

The following table summarizes the test results obtained. A definition of the result categories may be found at the end of the result tables.

TOTAL RELEVANT TEST CASES PERFORMED	17
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	UICC	E-UTRA
PASS	11	6
FAIL	0	0
Total	11	6

4.2 Tests Performed

The following tables reflect the requirements of the relevant specification and show the tests performed. Result files verifying these verdicts are available for inspection at Sporton International Inc. Mobile Communications Laboratory.

Where subcontracting has been performed these results are not covered by Sporton International Inc. Mobile Communications Laboratory's accreditation.

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4.2.1 Test Results for UICC

SPEC	TCID	TITLE	BAND_CONDITION	BAND	CATEGORY	RESULT	EUT	NOTE
ETSI TS 102 230-1	5.1.1	Phase preceding Terminal power on	NI	Single	Α	Pass	05.01.01	
ETSI TS 102 230-1	5.1.2.2	Phase during UICC power on: 1,8 V - 3 V	NI	Single	А	Pass	05.01.01	_
ETSI TS 102 230-1	5.1.3.2	Phase during Terminal power off: 1,8 V - 3 V	NI	Single	Α	Pass	05.01.01	
ETSI TS 102 230-1	5.1.5.3	Reaction of 1,8 V technology Terminals on type recognition of 1,8 V technology UICCs	NI	Single	Α	Pass	05.01.01	
ETSI TS 102 230-1	5.1.5.4	Reaction of 1,8 V technology Terminals on type recognition of 3 V technology UICCs	NI	Single	А	Pass	05.01.01	
ETSI TS 102 230-1	5.1.5.6.2	Reaction of Terminals receiving no ATR, 1.8 V - 3 V	NI	Single	Α	Pass	05.01.01	
ETSI TS 102 230-1	5.2.2.3	Electrical tests on contact C1, Test 1: 1,8 V - 3 V	NI	Single	А	Pass	05.01.01	_
ETSI TS 102 230-1	5.2.2.4	Electrical tests on contact C1, Test 2: 1,8 V - 3 V	NI	Single	Α	Pass	05.01.01	
ETSI TS 102 230-1	5.2.3.2	Electrical tests on contact C2: 1,8 V - 3 V	NI	Single	Α	Pass	05.01.01	
ETSI TS 102 230-1	5.2.4.2	Electrical tests on contact C3: 1,8 V - 3 V	NI	Single	Α	Pass	05.01.01	
ETSI TS 102 230-1	5.2.5.3	Electrical tests on contact C7, Test 1: 1,8 V - 3 V	NI	Single	А	Pass	05.01.01	

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4.2.2 Test Results for E-UTRA

SPEC	TCID	TITLE	BAND_CONDITION	BAND	CATEGORY	RESULT	EUT	NOTE
3GPP TS 36.124	8.2	Radiated emission (Traffic mode)	FDD 12	All	А	Pass	05.01.01	_
3GPP TS 36.124	8.2	Radiated emission (Traffic mode)	FDD 13	All	Α	Pass	05.01.01	_
3GPP TS 36.124	8.2	Radiated emission (Traffic mode)	FDD 25	All	Α	Pass	05.01.01	_
3GPP TS 36.124	8.2	Radiated emission (Traffic mode)	FDD 26	All	Α	Pass	05.01.01	_
3GPP TS 36.124	8.2	Radiated emission (Traffic and Idle mode)	FDD 4	All	Α	Pass	05.01.01	_
3GPP TS 36.523-1	9.1.4.2	Identification procedure / IMEI / IMEISV requested	FDD 4	Single	Α	Pass	05.01.01	_

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4.3 Key to Result Codes

The following codes are used in the table of results.

Code	Meaning
PASS	Test result shows that the requirements of the relevant specification have been met.
FAIL	Test result shows that the requirements of the relevant specification have not been met.
NA	Test is either not required/not applicable in the specified frequency band or is not applicable according to the specific PICS/PIXIT for the equipment under test.

4.4 Key to Tested Bands Code

The following codes are used in the table of results.

Code	Meaning
Single	Test case is required to be completed in one of the supported frequency bands.
All	Test case is required to be completed in all supported frequency bands.
Network Independent	A test case which is validated without the use of a radio access bearer
Bearer Agnostic	A test case which is independent of the radio access bearer or frequency band used during the test
I-RAT Single	An InterRAT test case that should be tested in a single band combination.
multi	indicates that a band combination is required, e.g. GSM1900/850 MHz bands.
Blank	indicates that the test does not require a bearer

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5 Test Equipment

Conformance testing was performed using test equipment calibrated in accordance with Taiwan Accreditation Foundation accreditation requirements. Calibration, configuration records and equipment details used for conformance testing are available in Annex A.

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6 People performing Accredited Testing

Bob Zhu Jay Wang Kyle Chuang

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Annex A – Test Equipment Configuration Information

The following information details the configuration of the test equipment used in assessing the conformance of this product.

1 Test Equipment

Conformance testing was performed using test equipment calibrated in accordance with TAF accreditation requirements. Calibration, configuration records and equipment details used for conformance testing are available for inspection at Sporton International Inc., if required.

1.1 TP92/97/99/292/299 - Rohde & Schwarz CMW500

Test Platform Info		TP092 – CMW500 TP097 – R&S CMW-ATE TP099 – R&S TS-LBS TP292 – R&S CMX			
Hardw	are Info	TP299 – R&S 5G TS-LBS Devices List			
Manufacturer	Model Info	Description	Serial Number	Calibration Due Date	
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	171450	08-Sep-26	
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	171451	09-Sep-26	
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	170098	14-Mar-25	
Rohde & Schwarz	NRP-Z21	Average Power Sensor	104487	14-Aug-26	
Rohde & Schwarz	SMBV100A	Vector Signal Generator	260587	25-Jul-26	
Rohde & Schwarz		Vector Signal Generator	102464	27-Mar-27	
Rohde & Schwarz	NGMO1	DC Power Supply	101034	19-Aug-25	
Rohde & Schwarz	TS-CONN	Connection Box	101379	NCR	
Rohde & Schwarz	CMW-Z24	RF Combiner	101691	NCR	
Rohde & Schwarz		Control Unit	101299	NCR	
Rohde & Schwarz	CMWC	Control Unit	103252	NCR	
Rohde & Schwarz		5G Radio Communication Tester	101578	NCR	
Dell	TSCTRLPC1	Control PC for Test System	101502	NCR	
Dell	Precision 5820	Control PC	USNR8TU	NCR	
	Operation System				
	Windows XP Embedded Service Pack 3				
		Version			
Software	CMW-BASE	3.7.150			
Version	CMW-DAU Support SW			3.7.50	
CMW500	CMW-PTLI			3.7.25	
	CMW-LICENSE_PROXY			9.30.3.3	
	MCT-TC-EXPLORE	ER		4.51.4.0	
	CMW-TOOLS	On another Oreston		10.22.1.0	
		Operation System Microsoft Windows Embedded Sta	ndord 7		
		Software Modules	nuaru <i>r</i>	Version	
		Software Modules		3.0, 3.1, 3.2,	
	KC201, KC202, KC203, KC204, KC205, KC206, KC207, KC211, KC215, KC221, KC222, KC223, KC231, KC233, KC241, KC280			3.3, 3.4, 3.10, 3.11,	
Software Version CMW-CU	KC401, KC402, KC404, KC405, KC406, KC408, KC420, KC421, KC422, KC423, KC424, KC425, KC428, KC429, KC430, KC432, KC433, KC434, KC435, KC436, KC437, KC439, KC441, KC442, KC443			19.50, 20.49, 20.25, 21.12	
	KC501, KC502, KC KC512, KC514, KC KC522, KC523, KC KC549, KC551, KC KC563, KC564, KC	503, KC504, KC506, KC508, KC509, KC5 515, KC516, KC517, KC518, KC519, KC5 524, KC535, KC540, KC541, KC542, KC5 552, KC553, KC554, KC556, KC558, KC5 565, KC566, KC568, KC569. KC571, KC5 590, KC591, KC592, KC593	20, KC521, 43, KC544, 59, KC560,	19.23, 19.50, 20.25, 20.43, 21.12, 21.49, 22,12, 22.23, 23.24	

Annex A – Test Equipment Configuration Information

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	CMW-KK081(LPPe)	33.61.396
	KC601, KC602, KC603, KC604, KC611, KC612, KC613, KC614, KC615, KC621, KC630, KC634, KC636	23.12, 23.37
	Operation System	
	Windows 7 64bit	
	Software Modules	Software Modules
	CMW-KAC01	5.60
	CMW-KAC06	5.50
	CMW-KAC12	5.30
Software Version	RS-PQA-Throughput	7.7
Version TSCTRLPC1	Setup_PQA_App	7.7
I COTTLE OT	CMW-LICENSE_PROXY	9.52.2.0
	CONTEST-BASE	19.4.1, 18.9,
	R&S LBS KCL001, KCL005, KCL006, KCL008, KCL011, KCL015, KCL016, KCL401, KCL402, KCL501, KCL502	11.50
	R&S LPP KC535, KC585	23.37, 22.23
	R&S LBS 5G KC111, KC112, KC151	18.20
	R&S LPP 5G, KC131	23.24

1.2 TP118/151 - COMPRION UT³ Platform - SWP/HCI/GSMA TS.27/USAT

Test Pl	atform Info	TP118/TP151 - CC TS.27/USAT	MPRION UT ³ Platfor	rm - SWP/H	ICI/GSMA	
Handran Info		COMPRION	UT ³ v3.0			
Hardware Info		Equipme	nt List			
Manufacturer	Model Info	Description	Serial Number	Calibration Du Date		
Comprion	UT³ Test System	Control PC	40066	NC	CR	
Comprion	UT³ Probe	UT³ APR v2.0	45177	10-Jı	ul-25	
Anritsu	MD8475A	Signaling Tester	6201357747	25-Apr-25		
	UT³ Test System	Operation System				
	01 Test System	Wi	ndows 10 Enterprise	LTSC		
		Platform Softwa	are		Version	
	Device Test Center				R8.1	
	COMPRION SIMfony ME	08475A Network Sim	ulation Controller		R8.1.0	
		Software Modul	les		Version	
	UT ³ 3GPP TS 31.124 US	SAT Test Bench Stag	e 2A		2.6	
	UT ³ 3GPP TS 31.124 US	SAT Test Bench Stag	e 3A		2.4	
Software Version	UT³ ETSI TS 102 695-1 HCI Test Bench Stage 1					
	UT³ ETSI TS 102 695-1 HCI Test Bench Stage 2				5.9	
	UT³ ETSI TS 102 695-1 HCI Test Bench Stage 3				5.9	
	UT³ ETSI TS 102 695-1 HCI Test Bench Stage 4					
	UT³ ETSI TS 102 695-1 HCI Test Bench Stage 5					
	UT³ ETSI TS 102 694-1 SWP Test Bench Stage 1					
	UT ³ ETSI TS 102 694-1	SWP Test Bench Sta	ige 2		5.9	
	UT ³ ETSI TS 102 694-1	SWP Test Bench Sta	ige 3		5.9	
	UT³ ETSI TS 102 694-1 SWP Test Bench Stage 4					
	UT3 GlobalPlatform SEA	AC Device Test Bench Stage 1			3.0.1	
	UT3 GSMA TS 27 Andro	oid Specific Test Bend	ch Stage 1		3.0	
	UT3 GSMA TS 27 Andro	oid Specific Test Bend	ch Stage 1A		3.0.1	
	UT3 GSMA TS 27 Android Specific Test Bench Stage 1B			3.0.1		
	UT3 GSMA TS 27 Android Specific Test Bench Stage 1C				3.0	
	UT3 GSMA TS 27 BIP Test Bench Stage 1				2.6	
	UT3 GSMA TS 27 BIP Test Bench Stage 2				2.6	
	UT3 GSMA TS 27 BIP T	est Bench Stage 3			2.6	
	UT3 GSMA TS 27 BIP T	est Bench Stage 4			2.6	
	UT3 Remote Manageme	nt Test Bench Stage	1		2.6	
	UT3 GSMA TS 27 Card	Emulation Test Benc	h Stage 1		3.0.1	
	UT3 GSMA TS 27 Card	Emulation Test Benc	h Stage 1A		3.0.1	
	UT3 GSMA TS 27 Gene	ral Device Support Te	est Bench Stage 1		3.0	
	UT3 GSMA TS 27 Multip	le Card Emulation E	nvironment Test Bend	ch Stage 1	3.0.1	
	· · · · · · · · · · · · · · · · · · ·				3.0	

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UT3 GSMA TS 27 NFC Tags Test Ber	3.0	
UT3 GSMA TS 27 NFC Tags Test Ber	3.0	
UT3 GSMA TS 27 Secure Element Ac	3.0.1	
UT3 GSMA TS 27 Secure Element Ac	3.0	
UT3 GSMA TS 27 SWP Stress Test T	3.0	
UT3 GSMA TS 27 UI Application Trigg	3.0	
UT3 SIMalliance OMAPI Test Bench S	3.0.1	
UT3 SIMalliance OMAPI Test Bench S	3.0.1	
UT3 SIMalliance OMAPI Test Bench S	3.0.1	
	•	
MD94754	Operation System	
MD8475A	Operation System Windows XP Professional	SP3
		SP3 Version
	Windows XP Professional ster Software	
Signaling Te	Windows XP Professional ster Software	Version
Signaling Te COMPRION MD8475A 3GPP TS 31.1	Windows XP Professional ster Software	Version R8.1.0
Signaling Te COMPRION MD8475A 3GPP TS 31.1 COMPRION MD8475A BIP Set 1	Windows XP Professional ster Software	Version R8.1.0 R8.1.0
Signaling Te COMPRION MD8475A 3GPP TS 31.1 COMPRION MD8475A BIP Set 1 COMPRION MD8475A BIP Set 2	Windows XP Professional ster Software	Version R8.1.0 R8.1.0 R8.1.0
Signaling Te COMPRION MD8475A 3GPP TS 31.1 COMPRION MD8475A BIP Set 1 COMPRION MD8475A BIP Set 2 COMPRION MD8475A BIP Set 3	Windows XP Professional ster Software 24 USAT USS Set 4	Version R8.1.0 R8.1.0 R8.1.0 R8.1.0 R8.1.0

1.3 Radiated Spurious Emission — RF8604

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Signal Analyzer	R&S	FSV3044	101247	10Hz~44GHz	May. 23, 2024	May. 22, 2025	Radiation (05CH02- HY)
Base Station	Anritsu	MT8821C	6201107507	FDD/TDD/NB-loT/Cat- M1/SEQ	Feb. 01, 2024	Jan. 31, 2025	Radiation (05CH02- HY)
Horn Antenna	ESCO	3117	00143261	1GHz~18GHz	Feb. 29, 2024	Feb. 28, 2025	Radiation (05CH02- HY)
Preamplifier	Langer	EM330	060364	100kHz~3GHz	Jul. 24, 2024	Jul. 23, 2025	Radiation (05CH02- HY)
Antenna Mast	INN-CO	MM 3000	N/A	1m~2m	N/A	N/A	Radiation (05CH02- HY)
Turn Table	INN-CO	DS2000	520604	Deg 0~ 360	N/A	N/A	Radiation (05CH02- HY)
software	AUDIX	e3 210616 sporton	RK-002309	N/A	N/A	N/A	Radiation (05CH02- HY)
Preamplifier	Jet-Power	JPA00101800- 30-10P	1601180001	1GHz~18GHz	Jul. 15, 2024	Jul. 14,2025	Radiation (05CH02- HY)

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Annex B – EUT Photographs



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