

SPORTON LAB.

Wireless Device Over the Air Performance Data Summary

REPORT NO. : ZC570401
APPLICANT : Shenzhen Neoway Technology Co., Ltd.
MANUFACTURER : Shenzhen Neoway Technology Co., Ltd.
EQUIPMENT : V16 Emergency Lamp
DATE OF RECEIPT : Jul. 04, 2025
DATE OF TEST : Jul. 04, 2025~ Jul. 17, 2025
ISSUE DATE : Jul. 23, 2025

Reviewed by:

Approved by:

Jinshan Zheng / Senior Engineer

Johnny Chen / Manager

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

The declared product specification for DUT presented in this report is provided by the manufacturer / applicant, and the manufacturer / applicant takes all the responsibilities for the accuracy of product specification.

Sporton International Inc. (Shenzhen)

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China**



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1. Administration Data

1.1 Testing Laboratory

Test Site	Sporton International Inc. (Shenzhen)
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055, People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595
Chamber	<input type="checkbox"/> OTA01-SZ <input type="checkbox"/> OTA02-SZ <input checked="" type="checkbox"/> OTA03-SZ

■: Indicates the chamber(s) used in this test report

1.2 Applicant

Company Name	Shenzhen Neoway Technology Co., Ltd.
Address	Room 4401, Building 1, Huide Tower, Beizhan Community, Minzhi Sub-district, Longhua District, Shenzhen, Guangdong, P.R.China

1.3 Manufacturer

Company Name	Shenzhen Neoway Technology Co., Ltd.
Address	Room 4401, Building 1, Huide Tower, Beizhan Community, Minzhi Sub-district, Longhua District, Shenzhen, Guangdong, P.R.China



2. General Information

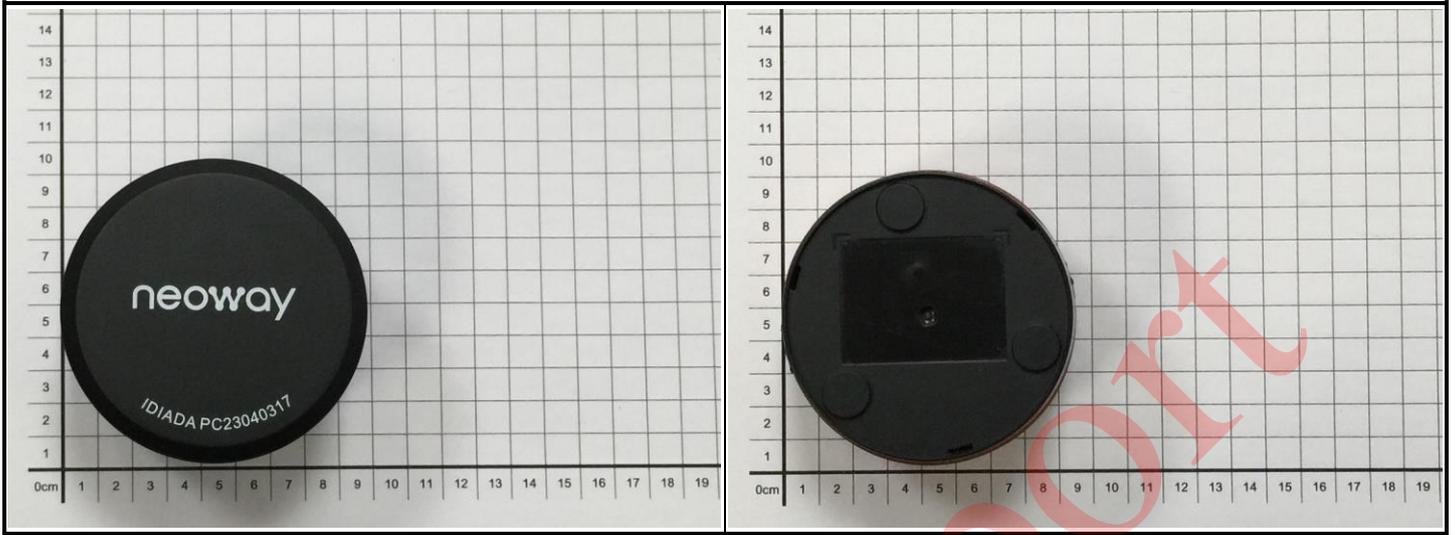
2.1 Description of Device Under Test (DUT)

Product Feature & Specification			
Equipment	V16 Emergency Lamp		
Brand Name	neoway		
Model Name	T912		
DUT Dimension (mm)	L: 65.8	W: 65.8	H: 77.7
Air Interface Supported	LTE FDD 8 / FDD 20 / FDD 28		
Air Interface Tested	LTE FDD 8 / FDD 20 / FDD 28		
Antenna Type	IFA antenna		
HW Version	T912-N03_V1.0		
SW Version	T912_N03_008-R1		
Device Power Class Tested	NB-IOT FDD 8 : 3 NB-IOT FDD 20 : 3 NB-IOT FDD 28 : 3		
Primary Mechanical Mode	Monoblock		
Remark: The Conducted data were provided by the customer.			

2.2 DUTs Used For Each Test

IMEI Code	Chamber Used	RAT(s)	Band(s)	Test Type(s)	Test Condition(s)
IMEI:868870065803071	-	LTE	FDD 8 / 20 / 28	Conducted	Conducted Power/Sensitivity
IMEI:868870065803154	OTA03-SZ			TRP/TIS	FS

2.3 Product Photo



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3. Measurement Environment

3.1 Ambient Condition

Temperature (°C):	25±5°C	Humidity (%):	<60%
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3.2 Test Equipment List

OTA03-SZ					
Name	Manufacturer	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
Radio Communication Analyzer	Anritsu	MT8821C	6201588577	2025/04/01	2026/03/31
Spectrum Analyzer	R&S	FSP 7	100946	2024/10/15	2025/10/14
Diagonal Dual Polarized Horn	ETS-Lindgren	3164-06	00126506	NCR	NCR
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00075985	NCR	NCR
Switch Control	ETS-Lindgren	EMCenter	00159618	NCR	NCR
Medium Duty Holder	ETS-Lindgren	2015	N/A	NCR	NCR

3.3 Measurement Uncertainty

The maximum expanded measurement uncertainty (k=2, at a 95% confidence level) as below:

OTA03-SZ						
TRP						
Normal	617-698 MHz	699-798 MHz	814-894 MHz	1695-1780 MHz	1850-2020 MHz	2300-2800 MHz
Free Space	1.35	1.45	1.33	1.49	1.49	1.70
TIS						
Normal	617-698 MHz	699-798 MHz	814-894 MHz	1850-2020 MHz	2110-2180 MHz	2300-2800 MHz
Free Space	1.79	1.86	1.77	1.89	1.94	2.06



4. Summary of Test Result

4.1 Reference Document

Document	Version
Vodafone Specification for Terminals on Over the Air RF Performance	V5.4

4.2 Declaration

Declaration of Conformity:		
The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.		
Comments and Explanations:		
Remark: OTA test was performed with maximum TX output power (no power reduction applied), the power reduction implementation is illustrated in the section Appendix A” . Detailed instructions as below table:		
Bands	FS	
	TRP	TIS
B8	ANTO	ANTO
B20	ANTO	ANTO
B28	ANTO	ANTO

4.3 Abbreviations and Definitions

Please note the following abbreviations in this section:

FS=Free Space



4.4 Base Station Configuration

Test Conditions for TRP-NB-IoT								Test Conditions for TIS-NB-IoT							
Band	Channel	Frequency UL	DL Configuration		UL Configuration			Band	Channel	Frequency DL	DL Configuration		UL Configuration		
			Modulation	Subcarriers	Modulation	N _{tones}	Subcarrier Spacing				Modulation	Subcarriers	Modulation	N _{tones}	Subcarrier Spacing
8	21451	880.10	-	-	QPSK	1@0	15KHz	8	3451	925.10	QPSK	12	BPSK	1@0	15KHz
	21625	897.50	-	-	QPSK	1@0	15KHz		3625	942.50	QPSK	12	BPSK	1@0	15KHz
	21799	914.90	-	-	QPSK	1@0	15KHz		3799	959.90	QPSK	12	BPSK	1@0	15KHz
20	24151	832.10	-	-	QPSK	1@0	15KHz	20	6151	791.10	QPSK	12	BPSK	1@0	15KHz
	24300	847.00	-	-	QPSK	1@0	15KHz		6300	806.00	QPSK	12	BPSK	1@0	15KHz
	24449	861.90	-	-	QPSK	1@0	15KHz		6449	820.90	QPSK	12	BPSK	1@0	15KHz
28	27211	703.10	-	-	QPSK	1@0	15KHz	28	9211	758.10	QPSK	12	BPSK	1@0	15KHz
	27435	725.5	-	-	QPSK	1@0	15KHz		9435	780.50	QPSK	12	BPSK	1@0	15KHz
	27659	747.90	-	-	QPSK	1@0	15KHz		9659	802.90	QPSK	12	BPSK	1@0	15KHz

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4.5 Summary Table

Summary of NB-IoT TRP Results:

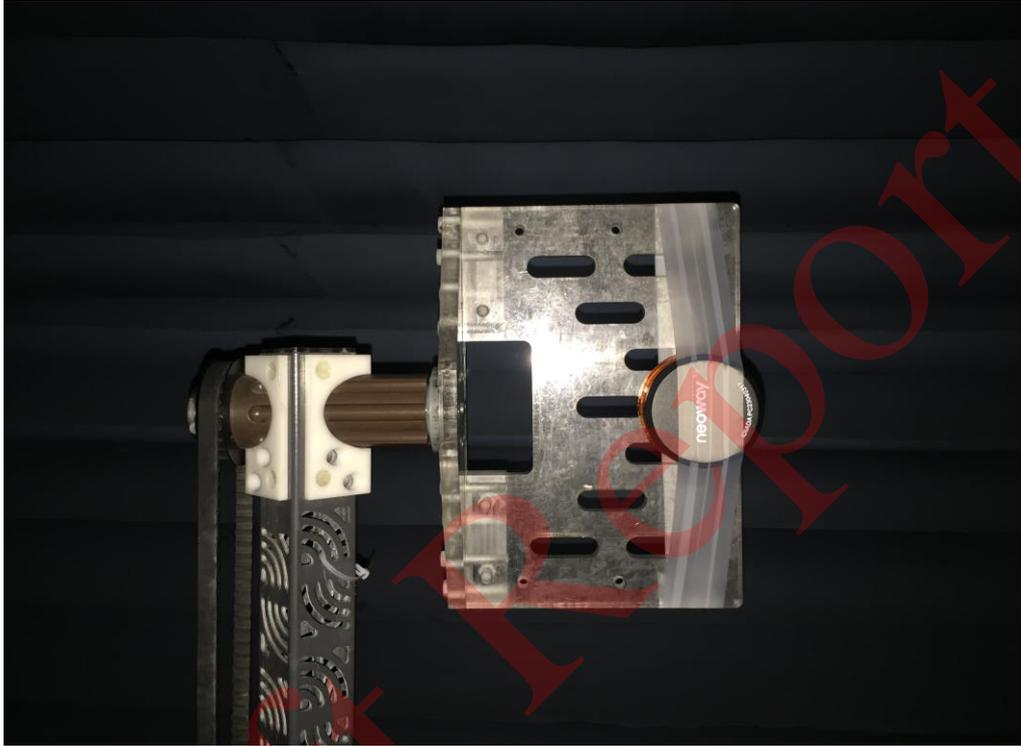
Band	Channel	Frequency (MHz)	Cond. Power (dBm)	TRP (dBm)					NHPRP ±45 (dBm)					NHPRP ±30 (dBm)				
				FS	HL	HR	BHHL	BHR	FS	HL	HR	BHHL	BHR	FS	HL	HR	BHHL	BHR
LTE FDD 8	21451	880.1	23.20	18.57	-	-	-	-	16.41	-	-	-	-	14.64	-	-	-	-
	21625	897.5	23.10	17.38	-	-	-	-	15.01	-	-	-	-	13.18	-	-	-	-
	21799	914.9	23.50	17.23	-	-	-	-	15.04	-	-	-	-	13.28	-	-	-	-
LTE FDD 20	24151	832.1	24.40	21.47	-	-	-	-	19.53	-	-	-	-	17.82	-	-	-	-
	24300	847	24.20	20.81	-	-	-	-	18.87	-	-	-	-	17.14	-	-	-	-
	24449	861.9	23.90	20.12	-	-	-	-	18.13	-	-	-	-	16.36	-	-	-	-
LTE FDD 28	27211	703.1	22.00	14.34	-	-	-	-	12.98	-	-	-	-	11.50	-	-	-	-
	27435	725.5	21.70	14.72	-	-	-	-	13.20	-	-	-	-	11.65	-	-	-	-
	27659	747.9	22.10	14.42	-	-	-	-	12.51	-	-	-	-	10.88	-	-	-	-

Summary of NB-IoT TIS Test Results

Band	Channel	Frequency (MHz)	Cond. Sens. (dBm)	TIS (dBm)					NHPIIS ±45 (dBm)					NHPIIS ±30 (dBm)				
				FS	HL	HR	BHHL	BHR	FS	HL	HR	BHHL	BHR	FS	HL	HR	BHHL	BHR
LTE FDD 8	3451	925.1	-115.00	-107.38	-	-	-	-	-106.00	-	-	-	-	-104.51	-	-	-	-
	3625	942.5	-114.50	-106.36	-	-	-	-	-104.68	-	-	-	-	-103.14	-	-	-	-
	3799	959.9	-112.50	-102.89	-	-	-	-	-101.29	-	-	-	-	-99.70	-	-	-	-
LTE FDD 20	6151	791.1	-115.50	-103.71	-	-	-	-	-101.15	-	-	-	-	-99.09	-	-	-	-
	6300	806	-114.50	-105.34	-	-	-	-	-104.27	-	-	-	-	-103.09	-	-	-	-
	6449	820.9	-115.50	-104.41	-	-	-	-	-102.59	-	-	-	-	-100.63	-	-	-	-
LTE FDD 28	9211	758.1	-114.50	-106.20	-	-	-	-	-104.28	-	-	-	-	-102.51	-	-	-	-
	9435	780.5	-114.00	-105.10	-	-	-	-	-103.54	-	-	-	-	-102.02	-	-	-	-
	9659	802.9	-114.50	-104.88	-	-	-	-	-102.79	-	-	-	-	-100.92	-	-	-	-

5. Photographs of Test Configuration

Place and fix it with tape shown in as below



Free Space– Front View



Appendix A. Tx power reduced table for Vodafone SAR

Technology	Antenna (Transmit Antenna Selection)	Channel	Is there a power reduction that meets the SAR limit (Y/N)	Does DUT Support TAS (TAS algorithm) (Y/N)	Maximum Power Reduction (dB) (Free Space)
LTE Band 8	Ant A	L	N	N	0
		M			
		H			
LTE Band 20	Ant A	L	N	N	0
		M			
		H			
LTE Band 28	Ant A	L	N	N	0
		M			
		H			

--THE END--