# **FCC RF Test Report**

APPLICANT : Shenzhen Neoway Technology Co.,Ltd.

**EQUIPMENT**: LTE Module

BRAND NAME : Neoway
MODEL NAME : N75-NA

FCC ID : PJ7-N75NA

STANDARD : 47 CFR Part 2, and 90(S)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Apr. 12, 2021 and completely tested on Apr. 21, 2021. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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

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Sporton International (Shenzhen) Inc.

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Cert #5145.01

**Report No.: FW141201** 

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# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FW141201	Rev. 01	Initial issue of report	Apr. 23, 2021

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### **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting only	PASS	-
3.2	§2.1053 §90.691	Field Strength of Spurious  Radiation	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 40.89 dB at 2444.250 MHz

#### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### **Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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### 1 General Description

### 1.1 Applicant

#### Shenzhen Neoway Technology Co.,Ltd.

4F-2#, Lianjian Science&Industry Park, Huarong Road, Dalang, Longhua District, Shenzhen City, Guangdong Province,P.R.China

#### 1.2 Manufacturer

#### Shenzhen Neoway Technology Co.,Ltd.

4F-2#, Lianjian Science&Industry Park, Huarong Road, Dalang, Longhua District, Shenzhen City, Guangdong Province,P.R.China

### 1.3 Feature of Equipment Under Test

	Product Feature
Equipment	LTE Module
Brand Name	Neoway
Model Name	N75-NA
FCC ID	PJ7-N75NA
EUT supports Radios application	GSM/WCDMA/LTE/GNSS
IMEI Code	Radiation: 8666430400488290
HW Version	V1.0
SW Version	N75_EAB0CM_BZ_V003
EUT Stage	Identical Prototype

#### Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. This is a variant report for N75-NA, the change note could be referred to the product equality declaration which is exhibit separately. According to the differences, only power/RSE were verified from original test report (Sporton Report Number FW930506-02).

### 1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard							
Tx Frequency	814 ~ 824 MHz						
Rx Frequency	859 ~ 869 MHz						
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz						
Maximum Output Power to Antenna	22.15 dBm						
Antenna Gain	3.00 dBi						
Type of Modulation	QPSK / 16QAM						

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#### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

### 1.6 Testing Site

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.									
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									
	Sporton Site No.	FCC Designation No.	FCC Test Firm							
Test Site No.	Sporton Site No.	i co besignation No.	Registration No.							
	TH01-SZ	CN1256	421272							

Test Firm	Sporton International (Sh	Sporton International (Shenzhen) Inc.							
Test Site Location									
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.						
	03CH03-SZ	CN1256	421272						

Sporton International (Shenzhen) Inc.

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#### 1.7 Test Software

tem Site		Manufacturer	Name	Version	
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24	

### 1.8 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

### 2 Test Configuration of Equipment Under Test

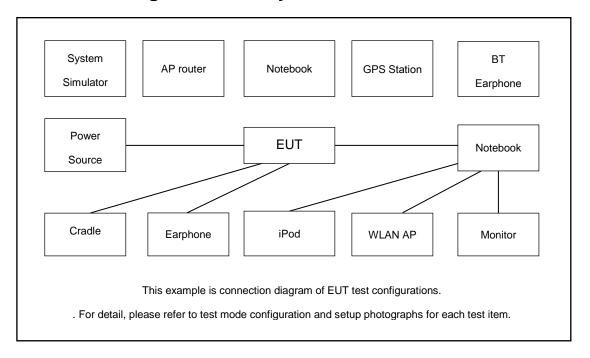
#### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Tool Homo	Down d	Bandwidth (MHz)			Modulation		RB#		Test Channel						
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
Max. Output Power	26	٧	v	v	٧	٧	-	v	v	٧	v	v	v	v	v
Radiated Spurious Emission	26		Worst case v v v												
Note	2. The 3. LTE ER	The mark "v" means that this configuration is chosen for testing     The mark "-" means that this bandwidth is not supported.													

### 2.2 Connection Diagram of Test System



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### 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	Fcc DoC	N/A	Shielded, 1.5m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	adapter	N/A	HJ-0503000	N/A	Unshielded,1.0m	N/A
4.	Test jig	N/A	N/A	N/A	N/A	N/A
5.	WWAN Antenna	N/A	N/A	N/A	N/A	N/A

### 2.4 Frequency List of Low/Middle/High Channels

	LTE Band 26 Channel and Frequency List										
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest							
15	Channel	26765	-	-							
15	Frequency	821.5	-	-							
10	Channel	-	26740	-							
10	Frequency	-	819	-							
5	Channel	26715	26740	26765							
5	Frequency	816.5	819	821.5							
3	Channel	26705	26740	26775							
3	Frequency	815.5	819	822.5							
1.4	Channel	26697	26740	26783							
1.4	Frequency	814.7	819	823.3							

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#### 3 Test Result

### 3.1 Conducted Output Power Measurement

#### 3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

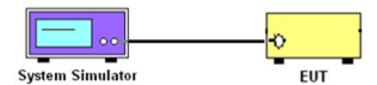
#### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.1.3 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

#### 3.1.4 Test Setup



#### 3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

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### 3.2 Field Strength of Spurious Radiation Measurement

#### 3.2.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43+10\log_{10}(P[Watts])$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.2.3 Test Procedures

- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

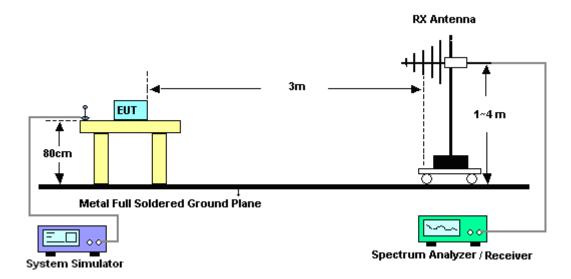
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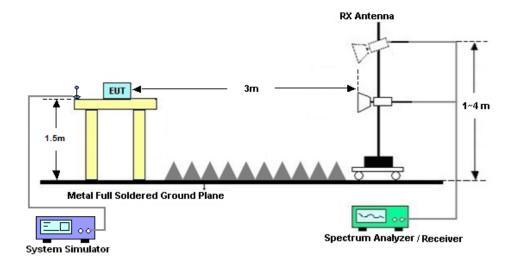
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#### 3.2.4 Test Setup

#### For radiated test from 30MHz to 1GHz



#### For radiated test above 1GHz



### 3.2.5 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

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# 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Apr. 21, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY5445008 3	20Hz~8.4GHz	Apr. 09, 2021	Apr. 15, 2021	Apr. 09, 2022	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY5515024 6	10Hz~44GHz;	Apr. 09, 2021	Apr. 15, 2021	Apr. 09, 2022	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2020	Apr. 15, 2021	Jun. 21, 2022	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120 D	9120D-1355	1GHz~18GHz	Apr. 30, 2020	Apr. 15, 2021	Apr. 29, 2021	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 17, 2019	Apr. 15, 2021	Oct. 16, 2021	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 21, 2020	Apr. 15, 2021	Jul. 20, 2021	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 23, 2020	Apr. 15, 2021	Apr. 22, 2021	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY3950130 2	500MHz~26.5G Hz	Dec. 25, 2020	Apr. 15, 2021	Dec. 24, 2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	6160100019 85	N/A	NCR	Apr. 15, 2021	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 15, 2021	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 15, 2021	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

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### 5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

#### <u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	2 040
Confidence of 95% (U = 2Uc(y))	3.0dB

#### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.6dB
Confidence of 95% (U = 2Uc(y))	3.00В

#### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

-	<u> </u>
Measuring Uncertainty for a Level of	2.8dB
Confidence of 95% (U = 2Uc(y))	2.0UD

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# **Appendix A. Test Results of Conducted Test**

# **Conducted Output Power (Average power)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
	Cha	nnel	26765			
	Frequenc	cy (MHz)	821.5			
15	QPSK	1	0	21.58		
15	QPSK	1	37	21.81		
15	QPSK	1	74	21.65		
15	QPSK	36	0	20.92		
15	QPSK	36	20	20.87		
15	QPSK	36	39	20.67		
15	QPSK	75	0	20.75		
15	16QAM	1	0	20.49		
15	16QAM	1	37	20.73		
15	16QAM	1	74	20.35		
15	16QAM	36	0	19.87		
15	16QAM	36	20	19.86		
15	16QAM	36	39	19.71		
15	16QAM	75	0	19.84		
	Channel				26740	
	Frequenc	cy (MHz)			819	
10	QPSK	1	0		21.40	
10	QPSK	1	25		21.75	
10	QPSK	1	49		21.80	
10	QPSK	25	0		20.72	
10	QPSK	25	12		20.83	
10	QPSK	25	25		20.84	
10	QPSK	50	0		20.75	
10	16QAM	1	0		20.22	
10	16QAM	1	25		20.63	
10	16QAM	1	49		20.96	
10	16QAM	25	0		19.82	
10	16QAM	25	12		19.90	
10	16QAM	25	25		19.86	
10	16QAM	50	0		19.89	
	Channel				26740	26765
	Frequenc	cy (MHz)		816.5	819	821.5
5	QPSK	1	0	21.43	21.37	21.71
5	QPSK	1	12	22.15	21.79	22.05
5	QPSK	1	24	21.78	21.73	21.33

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5	QPSK	12	0	20.81	20.80	20.95
5	QPSK	12	7	20.84	20.94	20.95
5	QPSK	12	13	20.79	20.86	20.93
5	QPSK	25	0	20.76	20.85	21.00
5	16QAM	1	0	20.50	20.65	21.17
5	16QAM	1	12	21.36	20.83	21.44
5	16QAM	1	24	21.04	20.26	20.49
5	16QAM	12	0	19.79	19.79	19.95
5	16QAM	12	7	20.04	20.05	19.89
5	16QAM	12	13	20.00	19.94	20.07
5	16QAM	25	0	19.94	19.92	20.14
	Cha	nnel		26705	26740	26775
	Frequen	cy (MHz)		815.5	819	822.5
3	QPSK	1	0	21.49	21.51	21.54
3	QPSK	1	8	21.85	21.63	21.69
3	QPSK	1	14	21.73	21.78	21.71
3	QPSK	8	0	20.77	20.82	20.93
3	QPSK	8	4	20.98	20.78	20.96
3	QPSK	8	7	20.83	20.90	20.88
3	QPSK	15	0	20.84	20.82	20.84
3	16QAM	1	0	20.55	20.55	20.86
3	16QAM	1	8	20.88	20.28	20.30
3	16QAM	1	14	20.90	20.90	20.63
3	16QAM	8	0	20.00	19.94	20.05
3	16QAM	8	4	20.27	20.10	19.76
3	16QAM	8	7	19.97	20.12	20.06
3	16QAM	15	0	19.76	19.93	19.92
	Cha	nnel		26697	26740	26783
	Frequen	cy (MHz)		814.7	819	823.3
1.4	QPSK	1	0	21.32	21.36	21.72
1.4	QPSK	1	3	21.90	21.71	21.95
1.4	QPSK	1	5	21.44	21.76	21.63
1.4	QPSK	3	0	20.84	20.92	20.84
1.4	QPSK	3	1	20.86	20.79	20.83
1.4	QPSK	3	3	20.73	20.80	20.84
1.4	QPSK	6	0	20.88	20.71	20.84
1.4	16QAM	1	0	20.31	20.18	20.77
1.4	16QAM	1	3	21.07	20.59	20.66
1.4	16QAM	1	5	20.24	20.92	20.63
1.4	16QAM	3	0	19.75	19.78	19.88
1.4	16QAM	3	1	19.98	19.86	20.13
1.4	16QAM	3	3	19.79	19.82	19.89
1.4	16QAM	6	0	19.84	19.85	19.93
					•	

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# **Appendix B. Test Results of Radiated Test**

# Radiated Spurious Emission

	LTE Band 26 / 10Mhz / QPSK									
Channel	Frequency (MHz)	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)	
	1629	-57.24	-13	-44.24	-68.71	-60.49	4.00	9.40	Н	
	2443.5	-54.10	-13	-41.10	-72.47	-57.67	4.88	10.60	Н	
Middle	3258	-57.48	-13	-44.48	-78.09	-62.41	5.52	12.60	Н	
Middle	1629	-58.90	-13	-45.90	-70.97	-62.15	4.00	9.40	V	
	2443.5	-54.49	-13	-41.49	-73.30	-58.06	4.88	10.60	V	
	3258	-56.15	-13	-43.15	-78.03	-61.08	5.52	12.60	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	LTE Band 26 / 15Mhz / QPSK										
Channel	Frequency (MHz)	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
	1629.5	-57.89	-13	-44.89	-69.36	-61.12	3.98	9.36	Н		
	2444.25	-53.89	-13	-40.89	-72.26	-57.44	4.85	10.55	Н		
Lowest	3259	-57.36	-13	-44.36	-77.97	-62.29	5.50	12.58	Н		
Lowest	1629.5	-58.82	-13	-45.82	-70.89	-62.05	3.98	9.36	V		
	2444.25	-54.97	-13	-41.97	-73.78	-58.52	4.85	10.55	V		
	3259	-55.99	-13	-42.99	-77.87	-60.92	5.50	12.58	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Sporton International (Shenzhen) Inc.

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