FCC RF Test Report

APPLICANT : Fibocom Wireless Inc.

EQUIPMENT : LTE module BRAND NAME : Fibocom

MODEL NAME : NL668-AM-00 FCC ID : ZMONL668AM00

STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L) CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Sep. 11, 2020 and completely tested on Sep. 18, 2020. We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

JasonJia

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300

People's Republic of China

Sporton International (Kunshan) Inc.

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Report No.: FG091101A

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG091101A	Rev. 01	Initial issue of report	Oct. 10, 2020

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
3.4	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
4.4	§2.1053; §22.917(a); §24.238(a); §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 36.25 dB at 3465.00 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

Fibocom Wireless Inc.

5/F, Tower A, Technology Building II, 1057 Nanhai Ave, ShenZhen China

1.2 Manufacturer

Fibocom Wireless Inc.

5/F, Tower A, Technology Building II, 1057 Nanhai Ave, ShenZhen China

1.3 Product Feature of Equipment Under Test

	Product Feature		
Equipment	LTE module		
Brand Name	Fibocom		
Model Name	NL668-AM-00		
FCC ID	ZMONL668AM00		
EUT supports Radios application	WCDMA/HSPA/DC-HSDPA/HSPA+(16QAM uplink is not supported)/LTE		
IMEI Code	Conducted: N/A Radiation: 359120100027757		
HW Version	V1.0		
SW Version	19006.1000.00.02.79.42		
EUT Stage	Production Unit		

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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 NL668-AM-00. For change note, please refer the product equality declaration exhibit separately. Based on the similarity between current and previous project, only Conducted power/ERP/EIRP and the worst case of Radiation Spurious Emission from original test report (Sporton Report Number FG8O1914A) were verified for the differences.

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1.4 Product Specification of Equipment Under Test

Standards	-related Pro	oduct Specification		
	WCDMA:			
Ty Fraguency	Band V:	826.4 MHz ~ 846.6 MHz		
Tx Frequency	Band II:	1852.4 MHz ~ 1907.6 MHz		
	Band IV:	1712.4 MHz ~ 1752.6 MHz		
	WCDMA:			
Dy Francisco	Band V:	871.4 MHz ~ 891.6 MHz		
Rx Frequency	Band II:	1932.4 MHz ~ 1987.6 MHz		
	Band IV:	2112.4 MHz ~ 2152.6 MHz		
	WCDMA:			
Marrian or Cutarut Barran ta Antanna	Band V:	23.25 dBm		
Maximum Output Power to Antenna	Band II:	22.65 dBm		
	Band IV:	22.43 dBm		
Antenna Type	Dipole Ante	enna		
	Cellular Band: 4.00 dBi			
Antenna Gain	PCS Band:	4.00 dBi		
	AWS Band	: 4.50 dBi		
		3PSK (Uplink)		
	HSDPA/DC-HSDPA: QPSK (Uplink)			
Type of Modulation	HSUPA: QPSK (Uplink)			
	HSPA+ : 16QAM (uplink is not supported) DC-HSDPA : 64QAM			

1.5 Modification of EUT

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

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1.6 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

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Test Firm	Sporton International (Kunshan) Inc.					
	_	o. 1098, Pengxi North Road, Kunshan Economic Development Zone angsu Province 215300 People's Republic of China				
Test Site Location	TEL: +86-512-57900158 FAX: +86-512-57900958					
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.			
	03CH04-KS TH01-KS	CN1257	314309			

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

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

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 10th harmonic for WCDMA Band V.
- 2. 30 MHz to 10th harmonic for WCDMA Band IV.
- 3. 30 MHz to 10th harmonic for WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

	Test Modes							
Band Radiated TCs Conducted TCs								
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						

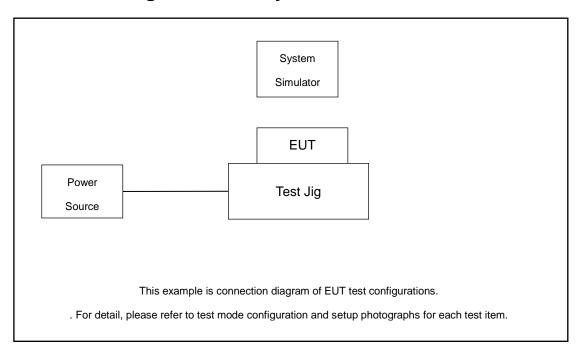
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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8m
3.	Adapter	N/A	N/A	N/A	Unshielded,1.2m	N/A
4.	Test Jig	N/A	N/A	N/A	N/A	N/A
5.	WWAN Antenna	N/A	HYT-690-2700H-3	N/A	N/A	N/A

2.4 Frequency List of Low/Middle/High Channels

Frequency List								
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest				
WCDMA	Channel	4132	4182	4233				
Band V	Frequency	826.4	836.4	846.6				
WCDMA	Channel	9262	9400	9538				
Band II	Frequency	1852.4	1880.0	1907.6				
WCDMA	Channel	1312	1413	1513				
Band IV	Frequency	1712.4	1732.6	1752.6				

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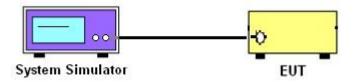
3 Conducted Test Result

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

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.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2
- The transmitter output port was connected to the system simulator.
- 3. Set EUT at maximum power through the system simulator.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure and record the power level from the system simulator.

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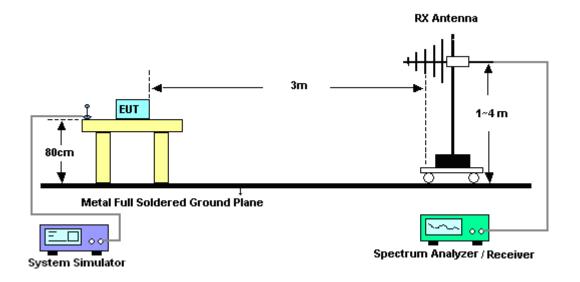
4 Radiated Test Items

4.1 Measuring Instruments

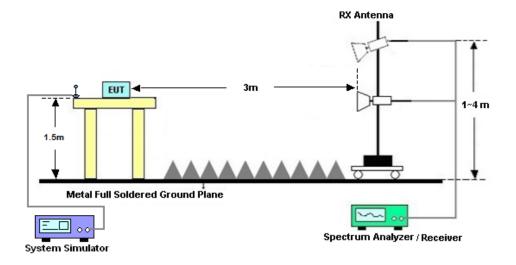
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

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4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

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 (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
System Simulator	R&S	CMW500	150792	2G/3G/4G	Jan. 14, 2020	Sep. 18, 2020	Jan. 13, 2021	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Sep. 17, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jan. 02, 2020	Sep. 17, 2020	Jan. 03, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Sep. 17, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Sep. 17, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 02, 2020	Sep. 17, 2020	Jan. 03, 2021	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Sep. 17, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 02, 2020	Sep. 17, 2020	Jan. 03, 2021	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 15, 2019	Sep. 17, 2020	Oct. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Sep. 17, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Sep. 17, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Sep. 17, 2020	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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6 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.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	3.3dB
Confidence of 95% (U = 2Uc(y))	3.3UD

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

Measuring Uncertainty for a Level of	2 04B
Confidence of 95% (U = 2Uc(y))	2.8dB

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

Measuring Uncertainty for a Level of	2 0 4 D
Confidence of 95% (U = 2Uc(y))	2.8dB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)									
Band WCDMA Band V WCDMA Band II WCDMA Band IV								nd IV	
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
RMC 12.2K									22.43

Note: Only the maximum power of RMC 12.2K is verified from original report.

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ERP/EIRP

WCDMA Band V ($G_T - L_C = 4.00 \text{ dB}$)								
Channel	4132	4182	4233					
	(Low)	(Mid)	(High)					
Frequency	000.4	0.40.0						
(MHz)	826.4	836.4	846.6					
Conducted Power (dBm)	23.01	23.18	23.25					
Conducted Power (Watts)	0.2000	0.2080	0.2113					
ERP(dBm)	24.86	25.03	25.10					
ERP(Watts)	0.3062	0.3184	0.3236					

WCDMA Band II (G _T - L _C = 4.00 dB)								
Channel	9262	9400	9538					
	(Low)	(Mid)	(High)					
Frequency	4050.4	4000	4007.6					
(MHz)	1852.4	1880	1907.6					
Conducted Power (dBm)	22.65	22.58	22.61					
Conducted Power (Watts)	0.1841	0.1811	0.1824					
EIRP(dBm)	26.65	26.58	26.61					
EIRP(Watts)	0.4624	0.4550	0.4581					

WCDMA Band IV (G_T - L_C = 4.50 dB)								
Channel	1312	1413	1513					
	(Low)	(Mid)	(High)					
Frequency	4740.4	4752.6						
(MHz)	1712.4	1732.6	1752.6					
Conducted Power (dBm)	22.38	22.42	22.43					
Conducted Power (Watts)	0.1730	0.1746	0.1750					
EIRP(dBm)	26.88	26.92	26.93					
EIRP(Watts)	0.4875	0.4920	0.4932					

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Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

	WCDMA Band V(RMC 12.2Kbps)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	1672	-63.15	-13	-50.15	-70.12	1.58	10.70	Н		
	2506	-65.65	-13	-52.65	-73.90	2.102	12.50	Н		
Middle	3348	-64.11	-13	-51.11	-73.00	2.856	13.90	Н		
Middle	1672	-63.15	-13	-50.15	-70.12	1.58	10.70	V		
	2506	-62.75	-13	-49.75	-71.00	2.10	12.50	V		
	3348	-64.03	-13	-51.03	-72.92	2.86	13.90	V		

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

	WCDMA Band II(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	3759	-60.33	-13	-47.33	-72.59	2.64	14.90	Н		
	5640	-56.45	-13	-43.45	-68.31	2.94	14.80	Н		
Middle	7524	-52.10	-13	-39.10	-61.87	3.39	13.16	Н		
Middle	3759	-59.53	-13	-46.53	-71.79	2.64	14.90	V		
	5640	-55.21	-13	-42.21	-67.07	2.94	14.80	V		
	7524	-51.40	-13	-38.40	-61.17	3.39	13.16	V		

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

	WCDMA Band IV(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	3465	-59.50	-13	-46.50	-70.24	2.604	13.34	Н		
	5199	-57.49	-13	-44.49	-68.00	3.011	13.52	Н		
Middle	6936	-54.21	-13	-41.21	-64.41	3.271	13.47	Н		
Middle	3465	-49.25	-13	-36.25	-59.99	2.604	13.34	V		
	5199	-56.89	-13	-43.89	-67.40	3.011	13.52	V		
	6936	-53.60	-13	-40.60	-63.80	3.271	13.47	V		

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

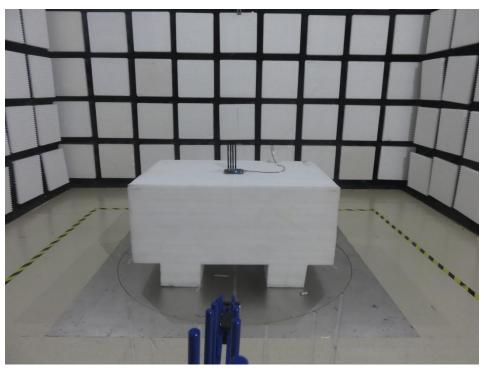
Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: ZMONL668AM00 Page Number : B1 of B1
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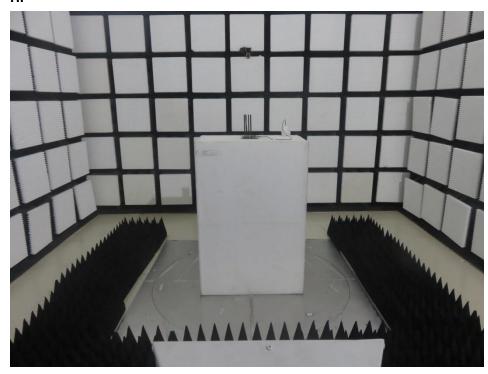
Appendix C. Setup Photographs

<Radiated Emission>

LF



HF



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