

# **RADIO TEST REPORT**

S T S

A

Report No:STS1906218W04

Issued for

**ITALCOM GROUP** 

1728Coral Way, Coral Gables, Miami, Florida, United States 33145(Zip code : 518048)

Product Name:	4G LTE
Brand Name:	NYX
Model Name:	ARGON
Series Model:	N/A
FCC ID:	YPVITALCOMARGON
Test Standard:	FCC Part 15.247

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Report No.: STS1906218W04

# **TEST RESULT CERTIFICATION**

Applicant's Name ITALCOM GROUP	
Address	
Manufacture's Name Shenzhen Tianruixiang Communication Equipment LIMITED	
Address Rm810, Block E, Taojindi Building, Tenglong Road, Longhua District, Shenzhen, China	
Product Description	
Product Name: 4G LTE	
Brand Name: NYX	
Model Name: ARGON	
Series Model: N/A	
Test Standards FCC Part15.247	
Test Procedure ANSI C63.10-2013	

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test .....

Date (s) of performance of tests..... 21 June 2019 ~ 27 June 2019

Date of Issue.....: 28 June 2019

Test Result.....: Pass

**Testing Engineer** (Chris Chen) day fill **Technical Manager** (Sunday Hu) Authorized Signatory : (Vita Li)

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#### **Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	28 June 2019	STS1906218W04	ALL	Initial Issue



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# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02

FCC Part 15.247,Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)(3)	Output Power PASS -			
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (d)	Conducted Spurious & Band Edge Emission PASS			
15.247 (e)	Power Spectral Density PASS			
15.205	Restricted Band Edge Emission PASS			
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS		
15.203	Antenna Requirement PASS			

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

(2) All tests are according to ANSI C63.10-2013

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### 1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd. Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China FCC test Firm Registration Number: 625569

A2LA Certificate No.: 4338.01

#### **1.2 MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.71dB
2	Unwanted Emissions, conducted	±0.63dB
3	All emissions, radiated 30-200MHz	±3.43dB
4	All emissions, radiated 200MHz-1GHz	±3.57dB
5	All emissions, radiated>1G	±4.13dB
6	Conducted Emission (9KHz-150KHz)	±3.18dB
7	Conducted Emission (150KHz-30MHz)	±2.70dB

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## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	4G LTE		
Trade Name	NYX		
Model Name	ARGON		
Series Model	N/A		
Model Difference	N/A		
	The EUT is a 4G LT	E	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	GFSK	
	Radio Technology:	BLE	
	Bluetooth Version:	4.2	
Product Description	Bluetooth		
	Configuration:	LE	
	Number Of Channel:	40	
	Antenna Designation:	Please see Note 3.	
	Antenna Gain (dBi)	-1 dBi	
Channel List	Please refer to the N	Note 2.	
Adapter	Input: AC100-240V, Output: DC5V, 1000		
Battery	Rated Voltage: 3.8V Charge Limit: 4.35V Capacity: 2700mA		
Hardware version number	NYX_ARGON_001		
Software version number	ARGON_AMXNYX_V001R		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



#### 2.

	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)
37	2402	09	2422	18	2442	28	2462
00	2404	10	2424	19	2444	29	2464
01	2406	38	2426	20	2446	30	2466
02	2408	11	2428	21	2448	31	2468
03	2410	12	2430	22	2450	32	2470
04	2412	13	2432	23	2452	33	2472
05	2414	14	2434	24	2454	34	2474
06	2416	15	2436	25	2456	35	2476
07	2418	16	2438	26	2458	36	2478
08	2420	17	2440	27	2460	39	2480

#### 3.

#### Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	NYX	ARGON	PIFA	N/A	-1 dBi	BLE ANT.



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## 2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH37(2402MHz)	1 MHz/GFSK
Mode 2	TX CH17(2440MHz)	1 MHz/GFSK
Mode 3	TX CH39(2480MHz)	1 MHz/GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

(2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report

(3) Controlled using a bespoke application on the laptop PC supplied by the customer. The application was used to enable a continuous transmission mode and to select the test channels, data rates and modulation schemes as required.

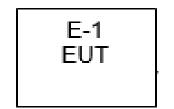
#### For AC Conducted Emission

	Test Case
AC Conducted Emission	Mode 4 : Keeping BT TX

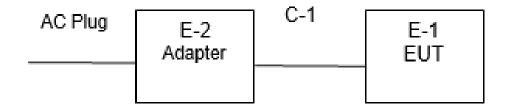


## 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test







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# 2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

0	Necessary accessories						
Item	Equipment	Mfr/Brand Model/Type No.		Serial No.	Note		
E-2	Adapter	NYX	LM-050100USB01	N/A	N/A		
C-1	DC Cable	N/A	100cm	N/A	N/A		

#### Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <sup>[]</sup>Length<sub>.</sub> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



# 2.5 EQUIPMENTS LIST

#### Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12	
Signal Analyzer	Agilent	N9020A	MY51110105	2019.03.02	2020.03.01	
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10	
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.1	
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18	
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10	
Pre-Amplifier(0.1M-3G Hz)	EM	EM330	060665	2018.10.13	2019.10.12	
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK201808090 1	2018.10.13	2019.10.12	
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10	
turn table	EM	SC100_1	60531	N/A	N/A	
Antenna mast	EM	SC100	N/A	N/A	N/A	
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)				

## Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12	
LISN	R&S	ENV216	101242	2018.10.11	2019.10.10	
LISN	EMCO	3810/2NM	23625	2018.10.11	2019.10.10	
Temperature & Humidity	HH660	Mieo N/A 2018.10.11 2019.10.10				
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)				

#### **RF** Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
USB RF power sensor	DARE	RPR3006W	15100041SNO03	2018.10.13	2019.10.12	
Signal Analyzer	Agilent	N9020A	MY49100060	2018.10.13	2019.10.12	
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10	
Test SW	FARAD	LZ-RF /LzRf-3A3				

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### 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

	Conducted Emission limit (dBuV)			
FREQUENCY (MHz)	Quasi-peak	Average		
0.15 -0.5	66 - 56 *	56 - 46 *		
0.50 -5.0	56.00	46.00		
5.0 -30.0	60.00	50.00		

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

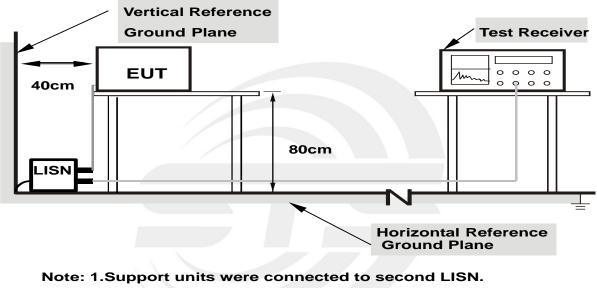
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		





## 3.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.



#### 3.3 TEST SETUP

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



## 3.5 TEST RESULTS

Temperature:	<b>25.3℃</b>	Relative Humidity:	62%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		

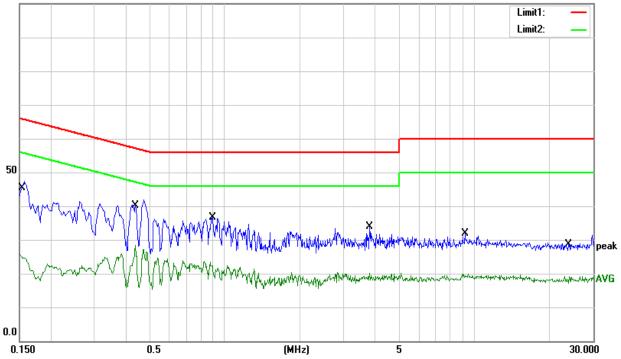
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1500	27.07	20.19	47.26	66.00	-18.74	QP
2	0.1500	5.68	20.19	25.87	56.00	-30.13	AVG
3	0.4380	21.28	20.49	41.77	57.10	-15.33	QP
4	0.4380	7.89	20.49	28.38	47.10	-18.72	AVG
5	0.8940	16.52	20.20	36.72	56.00	-19.28	QP
6	0.8940	2.10	20.20	22.30	46.00	-23.70	AVG
7	3.8060	13.78	20.06	33.84	56.00	-22.16	QP
8	3.8060	0.02	20.06	20.08	46.00	-25.92	AVG
9	9.1660	12.01	19.87	31.88	60.00	-28.12	QP
10	9.1660	0.12	19.87	19.99	50.00	-30.01	AVG
11	24.0460	11.85	19.56	31.41	60.00	-28.59	QP
12	24.0460	-0.36	19.56	19.20	50.00	-30.80	AVG

## Remark:

1. All readings are Quasi-Peak and Average values.

2. Margin = Result (Result = Reading + Factor )-Limit

100.0 dBuV





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Temperature:	<b>25.3</b> ℃	Relative Humidity:	62%
Test Voltage:	AC 120V/60Hz	Phase:	Ν
Test Mode:	Mode 4		

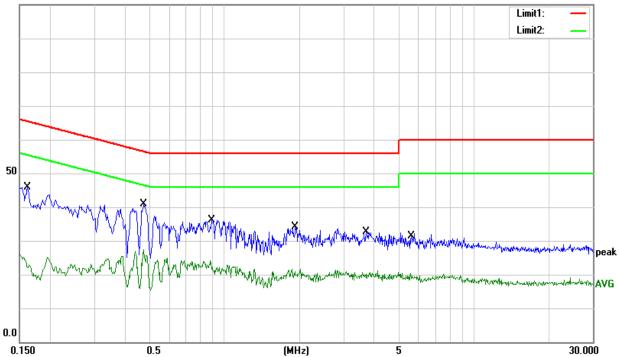
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1620	25.71	20.22	45.93	65.36	-19.43	QP
2	0.1620	4.93	20.22	25.15	55.36	-30.21	AVG
3	0.4740	20.52	20.45	40.97	56.44	-15.47	QP
4	0.4740	7.00	20.45	27.45	46.44	-18.99	AVG
5	0.8780	16.11	20.21	36.32	56.00	-19.68	QP
6	0.8780	4.04	20.21	24.25	46.00	-21.75	AVG
7	1.9260	13.96	20.15	34.11	56.00	-21.89	QP
8	1.9260	1.53	20.15	21.68	46.00	-24.32	AVG
9	3.6980	12.43	20.07	32.50	56.00	-23.50	QP
10	3.6980	1.00	20.07	21.07	46.00	-24.93	AVG
11	5.5860	12.20	19.97	32.17	60.00	-27.83	QP
12	5.5860	0.35	19.97	20.32	50.00	-29.68	AVG

#### Remark:

1. All readings are Quasi-Peak and Average values.

2. Margin = Result (Result = Reading + Factor )-Limit

100.0 dBuV



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## 4. RADIATED EMISSION MEASUREMENT

#### 4.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)				
	PEAK	AVERAGE			
Above 1000	74	54			

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### For Radiated Emission

Spectrum Parameter	Setting			
Attenuation	Auto			
Detector	Peak/AV			
Start Frequency	1000 MHz(Peak/AV)			
Stop Frequency	10th carrier hamonic(Peak/AV)			
RB / VB (emission in restricted	4 MUL / 2 MUL			
band)	1 MHz / 3 MHz			

#### For Band edge

Spectrum Parameter	Setting				
Detector	Peak/AV				
Start/Stop Frequency	Lower Band Edge: 2300 to 2403 MHz				
	Upper Band Edge: 2479 to 2500 MHz				
RB / VB (emission in restricted band)	1 MHz / 3 MHz				

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Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

#### 4.2 TEST PROCEDURE

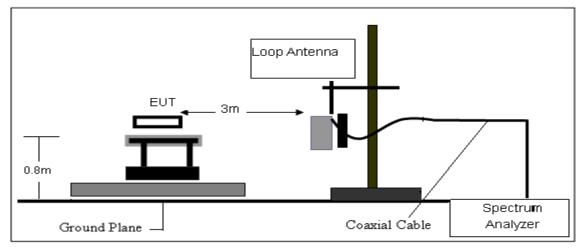
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

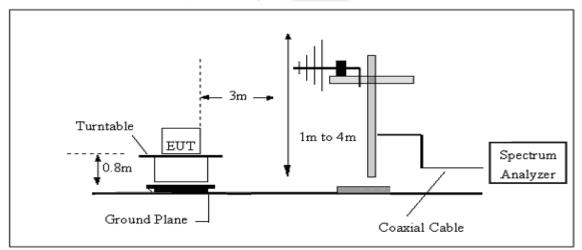


## 4.3 TEST SETUP

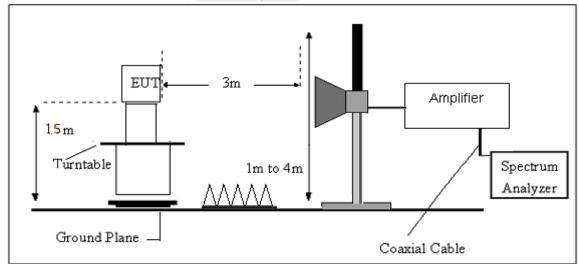
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



## 4.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

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## 4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AGWhere FS = Field Strength CL = Cable Attenuation Factor (Cable Loss) RA = Reading Amplitude AG = Amplifier Gain AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG



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## 4.6 TEST RESULTS

#### (Between 9KHz - 30 MHz)

Temperature:	<b>22.7</b> ℃	Relative Humidtity:	61%
Test Voltage:	DC 3.8V	Polarization:	
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

#### Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



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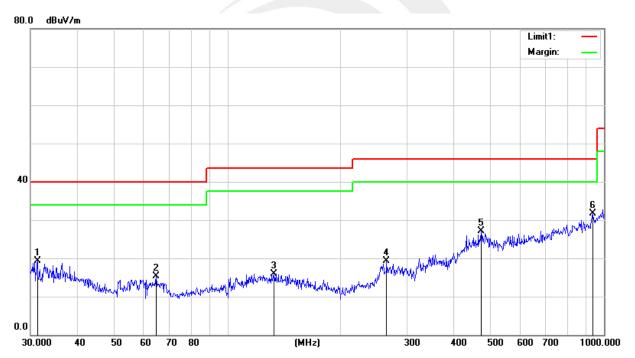
(30MHz -1000MHz)

Temperature:	<b>22.7</b> ℃	Relative Humidity:	61%			
Test Voltage:	DC 3.8V	Phase:	Horizontal			
Test Mode:	Mode 1/2/3 (Mode 3 worst mode)					

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.2893	32.31	-13.05	19.26	40.00	-20.74	QP
2	64.6594	40.83	-25.43	15.40	40.00	-24.60	QP
3	133.1511	34.29	-18.33	15.96	43.50	-27.54	QP
4	264.7456	34.76	-15.46	19.30	46.00	-26.70	QP
5	472.1760	37.24	-10.22	27.02	46.00	-18.98	QP
6	932.2713	33.09	-1.48	31.61	46.00	-14.39	QP

#### Remark:

1. Margin = Result (Result = Reading + Factor )-Limit





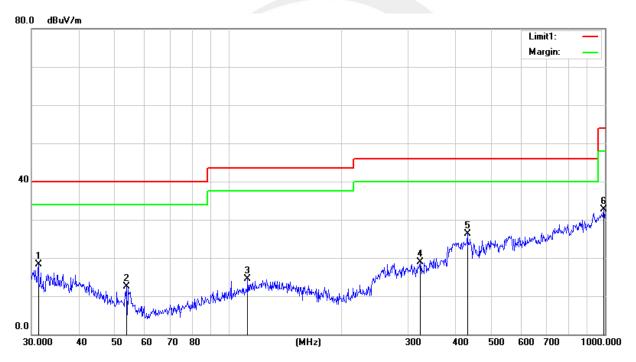
Page 24 of 42 Report No.: STS1906218W04

Temperature:	<b>22.7</b> ℃	Relative Humidity:	61%			
Test Voltage:	DC 3.8V	Phase:	Vertical			
Test Mode:	Mode 1/2/3 (Mode 3 worst mode)					

No.	Frequency	Reading	Reading Correct		Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.2893	31.31	-13.05	18.26	40.00	-21.74	QP
2	53.6931	36.82	-24.27	12.55	40.00	-27.45	QP
3	112.5242	33.51	-18.91	14.60	43.50	-28.90	QP
4	323.3204	33.73	-14.75	18.98	46.00	-27.02	QP
5	431.0316	37.68	-11.30	26.38	46.00	-19.62	QP
6	993.0113	33.01	-0.27	32.74	54.00	-21.26	QP

Remark:

1. Margin = Result (Result = Reading + Factor )-Limit



Shenzhen STS Test Services Co., Ltd.



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# (1GHz-25GHz)Restricted band and Spurious emission Requirements

,	,				GFSK	ritequiren				
Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Orrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	( <b>dB/m</b> )	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				Low C	hannel (2402	MHz)				
3264.78	61.33	44.70	6.70	28.20	-9.80	51.53	74.00	-22.47	PK	Vertical
3264.78	50.99	44.70	6.70	28.20	-9.80	41.19	54.00	-12.81	AV	Vertical
3264.65	61.37	44.70	6.70	28.20	-9.80	51.57	74.00	-22.43	PK	Horizontal
3264.65	51.20	44.70	6.70	28.20	-9.80	41.40	54.00	-12.60	AV	Horizontal
4804.37	58.77	44.20	9.04	31.60	-3.56	55.21	74.00	-18.79	PK	Vertical
4804.37	50.25	44.20	9.04	31.60	-3.56	46.69	54.00	-7.31	AV	Vertical
4804.54	58.16	44.20	9.04	31.60	-3.56	54.60	74.00	-19.40	PK	Horizontal
4804.54	49.70	44.20	9.04	31.60	-3.56	46.14	54.00	-7.86	AV	Horizontal
5359.64	49.21	44.20	9.86	32.00	-2.34	46.87	74.00	-27.13	PK	Vertical
5359.64	39.17	44.20	9.86	32.00	-2.34	36.83	54.00	-17.17	AV	Vertical
5359.72	48.29	44.20	9.86	32.00	-2.34	45.95	74.00	-28.05	PK	Horizontal
5359.72	39.04	44.20	9.86	32.00	-2.34	36.70	54.00	-17.30	AV	Horizontal
7205.97	53.61	43.50	11.40	35.50	3.40	57.01	74.00	-16.99	PK	Vertical
7205.97	44.35	43.50	11.40	35.50	3.40	47.75	54.00	-6.25	AV	Vertical
7205.88	54.00	43.50	11.40	35.50	3.40	57.40	74.00	-16.60	PK	Horizontal
7205.88	43.64	43.50	11.40	35.50	3.40	47.04	54.00	-6.96	AV	Horizontal
				Middle	Channel (244	0 MHz)				
3264.83	61.33	44.70	6.70	28.20	-9.80	51.53	74.00	-22.47	PK	Vertical
3264.83	50.70	44.70	6.70	28.20	-9.80	40.90	54.00	-13.10	AV	Vertical
3264.79	61.56	44.70	6.70	28.20	-9.80	51.76	74.00	-22.24	PK	Horizontal
3264.79	50.07	44.70	6.70	28.20	-9.80	40.27	54.00	-13.73	AV	Horizontal
4880.35	58.54	44.20	9.04	31.60	-3.56	54.98	74.00	-19.02	PK	Vertical
4880.35	50.27	44.20	9.04	31.60	-3.56	46.71	54.00	-7.29	AV	Vertical
4880.45	58.84	44.20	9.04	31.60	-3.56	55.28	74.00	-18.72	PK	Horizontal
4880.45	50.08	44.20	9.04	31.60	-3.56	46.52	54.00	-7.48	AV	Horizontal
5359.82	48.51	44.20	9.86	32.00	-2.34	46.17	74.00	-27.83	PK	Vertical
5359.82	39.91	44.20	9.86	32.00	-2.34	37.57	54.00	-16.43	AV	Vertical
5359.66	47.09	44.20	9.86	32.00	-2.34	44.75	74.00	-29.25	PK	Horizontal
5359.66	38.31	44.20	9.86	32.00	-2.34	35.97	54.00	-18.03	AV	Horizontal
7320.89	54.37	43.50	11.40	35.50	3.40	57.77	74.00	-16.23	PK	Vertical
7320.89	43.68	43.50	11.40	35.50	3.40	47.08	54.00	-6.92	AV	Vertical
7320.86	54.48	43.50	11.40	35.50	3.40	57.88	74.00	-16.12	PK	Horizontal
7320.86	44.14	43.50	11.40	35.50	3.40	47.54	54.00	-6.46	AV	Horizontal

# Shenzhen STS Test Services Co., Ltd.



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	High Channel (2480 MHz)									
3264.80	61.50	44.70	6.70	28.20	-9.80	51.70	74.00	-22.30	PK	Vertical
3264.80	50.52	44.70	6.70	28.20	-9.80	40.72	54.00	-13.28	AV	Vertical
3264.82	62.22	44.70	6.70	28.20	-9.80	52.42	74.00	-21.58	PK	Horizontal
3264.82	49.94	44.70	6.70	28.20	-9.80	40.14	54.00	-13.86	AV	Horizontal
4960.45	59.07	44.20	9.04	31.60	-3.56	55.51	74.00	-18.49	PK	Vertical
4960.45	49.14	44.20	9.04	31.60	-3.56	45.58	54.00	-8.42	AV	Vertical
4960.54	58.68	44.20	9.04	31.60	-3.56	55.12	74.00	-18.88	PK	Horizontal
4960.54	50.27	44.20	9.04	31.60	-3.56	46.71	54.00	-7.29	AV	Horizontal
5359.85	49.20	44.20	9.86	32.00	-2.34	46.86	74.00	-27.14	PK	Vertical
5359.85	40.28	44.20	9.86	32.00	-2.34	37.94	54.00	-16.06	AV	Vertical
5359.73	47.85	44.20	9.86	32.00	-2.34	45.51	74.00	-28.49	PK	Horizontal
5359.73	38.62	44.20	9.86	32.00	-2.34	36.28	54.00	-17.72	AV	Horizontal
7439.92	54.61	43.50	11.40	35.50	3.40	58.01	74.00	-15.99	PK	Vertical
7439.92	43.64	43.50	11.40	35.50	3.40	47.04	54.00	-6.96	AV	Vertical
7439.84	54.75	43.50	11.40	35.50	3.40	58.15	74.00	-15.85	PK	Horizontal
7439.84	43.63	43.50	11.40	35.50	3.40	47.03	54.00	-6.97	AV	Horizontal

## Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

The frequency emission of peak points that did not show above the forms are at least 20dB 2)

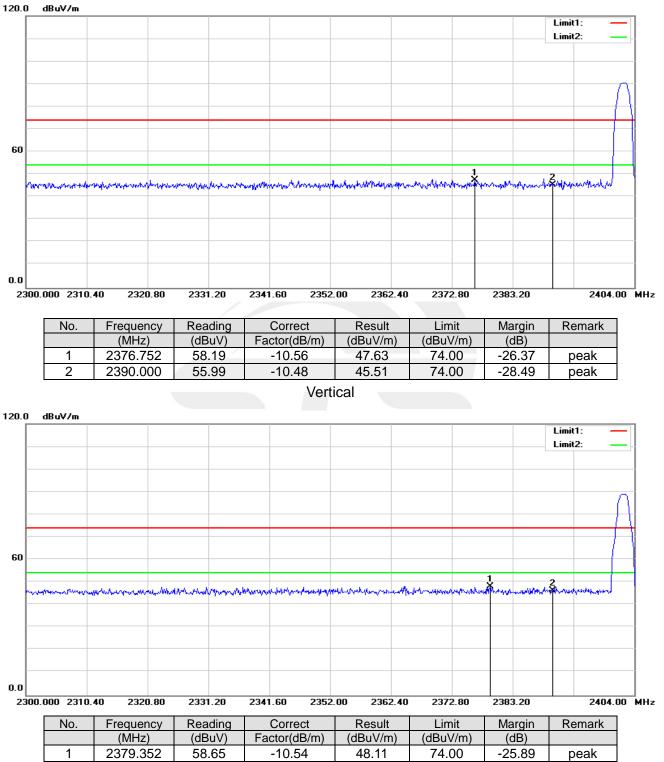
below the limit, the frequency emission is mainly from the environment noise.



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## 4.6 TEST RESULTS (Restricted Bands Requirements) GFSK-Low

Horizontal



2

2390.000

56.88

-10.48

46.40

 1/F., Building B, Zhuoke Science Park, No. 190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

 Tel: + 86-755 3688 6288 Fax: + 86-755 3688 6277 Http://www.stsapp.com

 E-mail: sts@stsapp.com

-27.60

peak

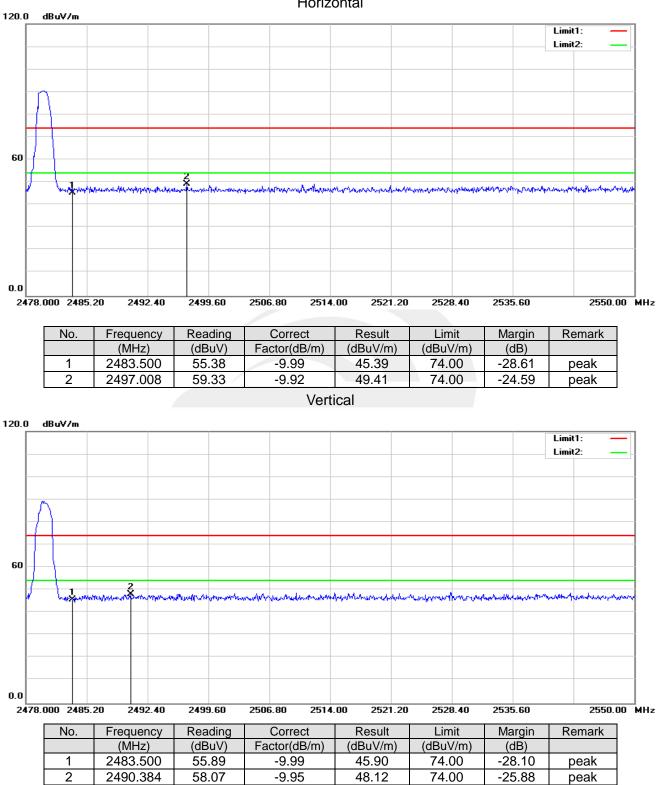
74.00



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GFSK-High Horizontal



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# 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

# 5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

## 5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

## For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stan Fraguanay	Lower Band Edge: 2300 – 2403 MHz		
Start/Stop Frequency	Upper Band Edge: 2479 – 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

5.3 TEST SETUP



The EUT which is powered by the Battery, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

## 5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



## 5.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	50%
Test Voltage:	DC 3.8V		TX Mode /CH37, CH17, CH39

## 37 CH

enter F		Ω AC 000000 GHz	SENSE: IP		ALIGNAUTO Avg Type	: Log-Pwr		) PM Jun 25, 201 RACE 1 2 3 4 5
	104 12.010	Р		: Free Run	0 //	U		DET P P P P
		IF	Gain:Low #Att	:en: 30 dB				
							Mkr1 2.4	
dB/div	Ref -5.72	dBm					-6.	466 dBi
5.7	<u>1</u>							
5.7								
								-35.71 d
5.7								A
5.7	<u>^2</u>	∧3						
5.7	- Y		and in comparison of the second states	and a state of the second state				have a second from
5.7			and the second	and the second se				
5.7								
i.7								
5.7								
art 30							Stop	25.00 GH
les B₩	/ 100 kHz		#VBW 30	0 kHz		Swe	ep 2.387 s	(40001 pt
R MODE 1	TRC SCL	×	Y	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
1 N 2 N	1 f 1 f	2.402 2 GHz 2.645 0 GHz	-6.466 dBm -56.897 dBm					
	1 f	6.707 0 GHz	-56.607 dBm					
	1 f	24.262 8 GHz	-49.167 dBm					
1 N								
1 N 5								
4 N 5 7								
4 N 5 7 8								
4 N 5 7 8								

Shenzhen STS Test Services Co., Ltd.



#### 17 CH

Avg Type: Log-Pwr PN0: Fast PN0: Fast Frag: Free Run #Atten: 30 dB Mkr1 Mkr1 V Ref 5.20 dBm V V V V V V V V V V V V V	08:39:45 PM Jun
div         Ref 5.20 dBm           1         1           1         1           2         3           2         3           4         1           30 MHz         #VBW 300 kHz         Sweep 2.3           0E         1         2.400 GHz         4.804 dBm           1         1         1         2.400 GHz         55.087 dBm	TRACE 1 TYPE M DET P
1         1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>	2.440 2 -4.804
30 MHz         #VBW 300 kHz         Sweep 2.3           BW 100 kHz         #VBW 300 kHz         Sweep 2.3           DEF TER SCI         X         Y         FUNCTION         FUNCTION           1         f         2.440 2 GHz         -4.804 dBm         -         -           1         f         2.640 0 GHz         -57.087 dBm         -         -         -	
30 MHz         #VBW 300 kHz         Sweep 2.3           BW 100 kHz         #VBW 300 kHz         Sweep 2.3           DEF TER SCI         X         Y         FUNCTION         FUNCTION           1         f         2.440 2 GHz         -4.804 dBm         -         -           1         f         2.640 0 GHz         -57.087 dBm         -         -         -	
30 MHz         #VBW 300 kHz         Sweep 2.3           BW 100 kHz         #VBW 300 kHz         Sweep 2.4           DE 160 SCL         X         Y         FUNCTION           1         f         2.440 2 GHz         -4.804 dBm         FUNCTION           1         f         2.640 0 GHz         -57.087 dBm         -57.087 dBm         -	
30 MHz         #VBW 300 kHz         Sweep 2.3           BW 100 kHz         #VBW 300 kHz         Sweep 2.4           DE 160 SCL         X         Y         FUNCTION           1         f         2.440 2 GHz         -4.804 dBm         FUNCTION           1         f         2.640 0 GHz         -57.087 dBm         -57.087 dBm         -	
30 MHz         #VBW 300 kHz         Sweep 2.3           BW 100 kHz         #VBW 300 kHz         Sweep 2.3           DB 150 SCI         X         Y         FUNCTION           1         f         2.440 2 GHz         -4.804 dBm           1         f         2.640 0 GHz         -57.087 dBm	
BW 100 kHz         #VBW 300 kHz         Sweep 2.3           OB TEC SCL         X         Y         FUNCTION         FUNCTION           I         1         f         2.440 2 GHz         -4.804 dBm         FUNCTION         FUNCTION           I         1         f         2.6400 GHz         -56.048 dBm         FUNCTION         FUNCTION           I         1         f         5.989 5 GHz         -57.087 dBm         FUNCTION         FUNCTION	· · · · ·
BW 100 kHz         #VBW 300 kHz         Sweep 2.3           OB TEC SCL         X         Y         FUNCTION         FUNCTION           I         1         f         2.440 2 GHz         -4.804 dBm         FUNCTION         FUNCTION           I         1         f         2.6400 GHz         -56.048 dBm         FUNCTION         FUNCTION           I         1         f         5.989 5 GHz         -57.087 dBm         FUNCTION         FUNCTION	
BW 100 kHz         #VBW 300 kHz         Sweep 2.3           DE TRO SCL         X         Y         FUNCTION         FUNCTION           1         f         2.440 2 GHz         -4.804 dBm         FUNCTION         FUNCTION           1         f         2.6400 GHz         -5.6048 dBm         FUNCTION         FUNCTION           1         f         2.6400 GHz         -5.6047 dBm         FUNCTION         FUNCTION	
1         f         2.440 2 GHz         -4.804 dBm           1         f         2.640 0 GHz         -56.048 dBm           1         f         5.989 5 GHz         -57.087 dBm	Stop 25.0 87 s (4000
I 1 f 2.640 0 GHz -56.048 dBm I 1 f 5.998 5 GHz -57.087 dBm	VALUE
STATUS	

39 CH

RF	50 Ω AC		NSE:INT	ALIGNAUTO	09:22:45 AM Jun 26
ter Freq 12	2.515000000 G	Hz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Log-	Pwr TRACE 123 TYPE MWW DET P P F
3/div <b>Ref</b>	5.69 dBm				Mkr1 2.479 6 0 -4.312 d
<b>(</b>	1				
					-24.
	$\bigcirc^2$ $\bigcirc^3$				
والمراجعة والمراجع					
t 30 MHz 8 BW 100 k	Hz	#VBW	/ 300 kHz		Stop 25.00 Sweep 2.387 s (40001
100e TRC SCL N 1 f N 1 f N 1 f N 1 f	× 2.479 3.324 5.414 24.370	2 GHz -56.988 d 8 GHz -57.727 d	Bm Bm	FUNCTION WIDTH	FUNCTION VALUE





For Band edge

37 CH

	ectrum		zer - Swept								
enter	<sup>-</sup> Fre	RF <b>q 2.</b> 3	50 Ω A 3515000	00 GHz	PNO: Fast 🕞 IFGain:Low	SENSE:INT Trig: Free #Atten: 30	Run	Avg Type	-	т	5 PM Jun 25, 201 RACE 1 2 3 4 5 TYPE M WAAAAA DET P P P P F
) dB/di	iv	Ref 5	5.88 dBm	l					MI	(r1 2.401 -4.	764 GH 125 dBr
29 .12											
.1											-24.13 d
11											
.1 —											
1.1	-when the	mon	مجليوبيوسوي	mon and an and the	marchendry	munmoulan	and the second from		mm market was	moreman	remark
L1											
4.1											
art 2. Res B					#VB	W 300 kHz			Sweep	Stop 2. 9.867 ms	40300 GH s (1001 pt
R MODE	e trc	SCL f		× 2.401 764 GHz		dBm	CTION FUNI	CTION WIDTH	H	UNCTION VALUE	
2 N 3 N	1	f f		2.390 846 GHz 2.399 704 GHz							
5											
7 3											
)											
1											>
1								STATUS			

39 CH





# 6. POWER SPECTRAL DENSITY TEST

#### 6.1 LIMIT

FCC Part 15.247,Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS	

### 6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: 100 kHz  $\ge$  RBW  $\ge$  3 kHz.
- 4. Set the VBW  $\geq$  3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

## 6.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

#### 6.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



## 6.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V		TX Mode /CH37, CH17, CH39

Fraguanay	Power Density	Limit (dPm/2KHz)	Popult	
Frequency	(dBm/3kHz)	Limit (dBm/3KHz)	Result	
2402 MHz	-20.800	≤8	PASS	
2440 MHz	-20.429	≤8	PASS	
2480 MHz	-19.573	≤8	PASS	

## TX CH37





#### TX CH17



#### **TX CH39**



Shenzhen STS Test Services Co., Ltd.



# 7. BANDWIDTH TEST

## 7.1 LIMIT

FCC Part 15.247,Subpart C					
Section	Section Test Item Limit		Frequency Range (MHz)	Result	
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS	

## 7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq$ 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.

### 7.3 TEST SETUP



## 7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



## 7.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V		TX Mode /CH37, CH17, CH39

Frequency	6dB Bandwidth	Channel Separation	Result	
ricquency	(KHz)	(KHz)		
2402 MHz	504.300	≥500KHz	PASS	
2440 MHz	503.600	≥500KHz	PASS	
2480 MHz	505.200	≥500KHz	PASS	

## TX CH 37

Agilent Spectrum Analyzer - Occupied BV	/			
RL RF 50 Ω AC	CU-7	SENSE:INT Center Freq: 2.4020000	ALIGNAUTO	08:35:38 PM Jun 25, 2019 Radio Std: None
	G	Trig: Free Run	Avg Hold:>10/10	
	#IFGain:Low	#Atten: 30 dB		Radio Device: BTS
10 dB/div Ref 20.00 dBm				
10.0				
0.00				
10.0				
20.0				
30.0				
40.0				
50.0				
60.0				
70.0				
Center 2.402 GHz				Span 2 MHz
#Res BW 100 kHz		#VBW 300 ki	Hz	Sweep 1 ms
Occupied Bandwidth	ı	Total Power	1.19 dBm	
1.0	0692 MHz			
Transmit Freq Error	-7.540 kHz	OBW Power	99.00 %	
x dB Bandwidth	504.3 kHz	x dB	-6.00 dB	
			5.50 GB	
SG			STATUS	

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## **TX CH 17**

	RF 50 Ω AC <b>q 2.440000000</b>	GHz #IFGain:Low	Center Freq: 2.4400000	ALIGNAUTO DOO GHz Avg Hold:>10/10	08:39:04 PMJun 25, 201 Radio Std: None Radio Device: BTS
0 dB/div	Ref 20.00 dBm	,			
og 0.0					
0.0					
0.0					
0.0					
0.0					
0.0					
0.0					
0.0					
enter 2.44 Res BW 10			#VBW 300 k	Hz	Span 2 MH Sweep 1 m
Occupie	ed Bandwidth	ı	Total Power	1.55 dBm	
	1.0	0693 MHz			
Transmit	Freq Error	-8.153 kHz	OBW Power	99.00 %	
	ndwidth	503.6 kHz	x dB	-6.00 dB	

#### **TX CH 39**

STATUS



Shenzhen STS Test Services Co., Ltd.



# 8. PEAK OUTPUT POWER TEST

#### 8.1 LIMIT

FCC Part 15.247,Subpart C					
Section Test Item Limit Frequency Range (MHz)		Result			
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS	

#### 8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&PC

#### 8.3 TEST SETUP



#### 8.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





## 8.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V		TX Mode /CH37, CH17, CH39

Test Channe	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH37	2402	-3.62	-12.00	30
CH17	2440	-3.31	-11.63	30
CH39	2480	-2.85	-11.23	30



Shenzhen STS Test Services Co., Ltd.



## 9. ANTENNA REQUIREMENT

#### 9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

## 9.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.



Shenzhen STS Test Services Co., Ltd.

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## 10. EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

\* \* \* \* \* END OF THE REPORT \* \* \* \*



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