

# **RADIO TEST REPORT**

S

# Report No.:STS2009191W04

Issued for

**Excellus Communications, LLC** 

27298 Wetland Road, Suite 101 Harrisburg, SD 57032 USA

Product Name:	4G phone
Brand Name:	Snapfon
Model Name:	Snapfon ez4G
Series Model:	N/A
FCC ID:	2AW56-EZ4G
Test Standard:	FCC Part 15.247

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# **TEST RESULT CERTIFICATION**

Applicant's Name:	Excellus Communications, LLC
Address	27298 Wetland Road, Suite 101 Harrisburg, SD 57032 USA
Manufacturer's Name	-
Address	ROOM 803, CHEVALIER HOUSE 45-51 CHATHAM ROAD SOUTH, TSIM SHA TSUI, KOWLOON, HONG KONG
Product Description	
Product Name:	4G phone
Brand Name:	Snapfon
Model Name:	Snapfon ez4G
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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Test Result..... Pass

Testing Engineer

 Technical Manager
 :

 Seam She
 :

 (Sean she)
 :

 Authorized Signatory :
 :

(Vita Li)



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# **Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	26 Oct. 2020	STS2009191W04	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	
15.209	Radiated Spurious Emission	PASS	
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.205	Restricted bands of operation	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. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District,Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A 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	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 30-1GHz	±5.6dB
4	All emissions, radiated 1G-6GHz	±5.5dB
5	All emissions, radiated>6G	±5.8dB
6	Conducted Emission (9KHz-150KHz)	±3.37dB
7	Conducted Emission (150KHz-30MHz)	±3.83dB



# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	4G phone	
Trade Name	Snapfon	
Model Name	Snapfon ez4G	
Series Model	N/A	
Model Difference	N/A	
	The EUT is a 4G ph	one
	Operation Frequency:	2402~2480 MHz
	Modulation Type:	GFSK
	Radio Technology:	BLE
	Bluetooth Version:	4.2
Product Description	Bluetooth	
	Configuration:	LE(Support 1M PHY)
	Number Of	40
	Channel:	
	Antenna Designation:	Please refer to the Note 3.
	Antenna Gain (dBi)	0.5 dBi
Channel List	Please refer to the N	Note 2.
Adapter	Input: AC 100-240V Output: DC 5V 1A	50/60Hz 0.2A
<b>D</b> //	Rated Voltage: 3.7V	1
Battery	Charge Limit: 4.2V Capacity: 1500mAh	
Hardware version number	G1-MB-V1.1	
Software version number	Snapfon_ez4G_v2.0	0_20200821_1249
Connecting I/O Port(s)	Please refer to the N	Note 1.

Note:

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



2.								
				Chan	nel List			
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)
	00	2402	10	2422	20	2442	30	2462
	01	2404	11	2424	21	2444	31	2464
	02	2406	12	2426	22	2446	32	2466
	03	2408	13	2428	23	2448	33	2468
	04	2410	14	2430	24	2450	34	2470
	05	2412	15	2432	25	2452	35	2472
	06	2414	16	2434	26	2454	36	2474
	07	2416	17	2436	27	2456	37	2476
	08	2418	18	2438	28	2458	38	2478
	09	2420	19	2440	29	2460	39	2480

# 3.

# Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	Snapfon	Snapfon ez4G	PIFA	N/A	0.5 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 CH00(2402MHz)	1 Mbps/GFSK
Mode 2	TX CH19(2440MHz)	1 Mbps/GFSK
Mode 3	TX CH39(2480MHz)	1 Mbps/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) The battery is fully-charged during the radited and RF conducted test.

#### For AC Conducted Emission

	Test Case
AC Conducted Emission	Mode 4 : Keeping BT TX

### 2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Туре	Mode Or Modulation type	Ant Gain(dBi)	Power Class	Software For Testing
BLE	BLE	GFSK	0.5	Default	Engineering mode

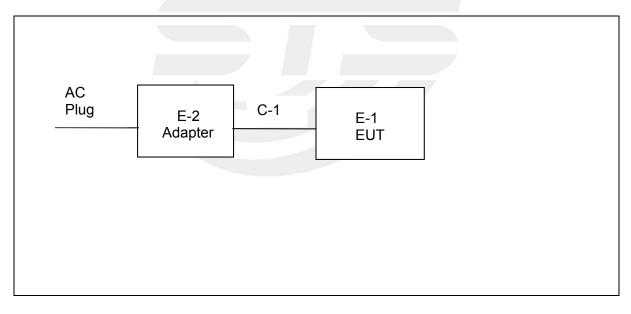


# 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

# Radiated Spurious Emission Test



**Conducted Emission Test** 



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### 2.5 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-2	Adapter	N/A	HJ-0501000E1-US	N/A	N/A
C-1	DC Cable	N/A	N/A	100cm	N/A

#### Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	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  $\[$ Length  $\]$  column.



# 2.6 EQUIPMENTS LIST

### Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until		
Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11		
Signal Analyzer	R&S	FSV 40-N	101823	2020.10.10	2021.10.09		
Active loop Antenna	ZHINAN	ZN30900C	16035	2019.07.11	2021.07.10		
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11		
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2019.10.15	2021.10.14		
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11		
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2020.10.12	2021.10.11		
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2020.10.12	2021.10.11		
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2020.10.10	2021.10.09		
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12		
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	2020.10.12	2021.10.11	
LISN	R&S	ENV216	101242	2020.10.12	2021.10.11	
LISN	EMCO	3810/2NM	23625	2020.10.12	2021.10.11	
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12	
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)				



**RF** Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
		U2021XA	MY55520005	2020.10.10	2021.10.09	
MIMO Power			MY55520006	2020.10.10	2021.10.09	
measurement test Set	Keysight		MY56120038	2020.10.10	2021.10.09	
			MY56280002	2020.10.10	2021.10.09	
Signal Analyzer	Agilent	N9020A	MY51110105	2020.03.05	2021.03.04	
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12	
MIMO Power measurement test Set	Keysight	U2021XA	MY55520005	2020.10.10	2021.10.09	
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)				





### **3. EMC EMISSION TEST**

# 3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Conducted Emission limit (dBuV)		
FREQUENCY (MHz)	Conducted Emission       Quasi-peak       66 - 56 *       56.00       60.00	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.

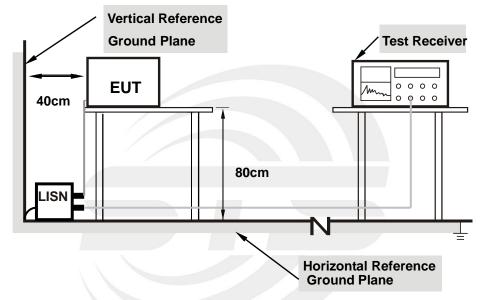
The following table is the setting of the receiver

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 is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 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 is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.



#### 3.3 TEST SETUP

Note: 1.Support units were connected to second LISN.

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

from other units and other metal planes support.

### 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

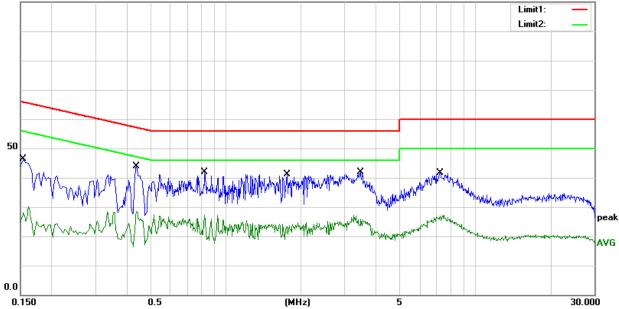
Temperature:	27.0(C)	Relative Humidity:	67%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1540	26.06	20.20	46.26	65.78	-19.52	QP
2	0.1540	10.04	20.20	30.24	55.78	-25.54	AVG
3	0.4380	23.46	20.49	43.95	57.10	-13.15	QP
4	0.4380	7.81	20.49	28.30	47.10	-18.80	AVG
5	0.8220	21.64	20.23	41.87	56.00	-14.13	QP
6	0.8220	6.88	20.23	27.11	46.00	-18.89	AVG
7	1.7700	20.99	20.15	41.14	56.00	-14.86	QP
8	1.7700	3.42	20.15	23.57	46.00	-22.43	AVG
9	3.4620	21.69	20.07	41.76	56.00	-14.24	QP
10	3.4620	5.47	20.07	25.54	46.00	-20.46	AVG
11	7.2300	21.76	19.90	41.66	60.00	-18.34	QP
12	7.2300	7.18	19.90	27.08	50.00	-22.92	AVG

### Remark:

- 1. All readings are Quasi-Peak and Average values
- 2. Margin = Result (Result = Reading + Factor)–Limit
- 3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV





Temperature:	27.0(C)	Relative Humidity:	67%RH
Test Voltage:	AC 120V/60Hz	Phase:	Ν
Test Mode:	Mode 4		

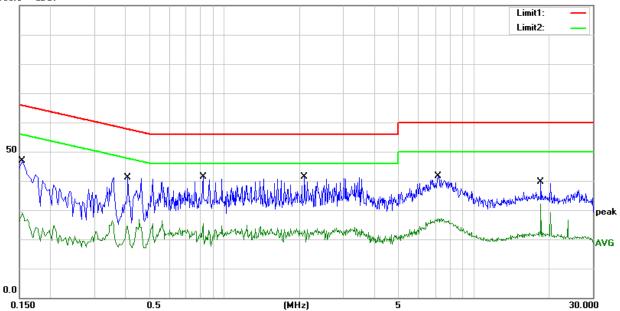
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1540	26.73	20.20	46.93	65.78	-18.85	QP
2	0.1540	8.89	20.20	29.09	55.78	-26.69	AVG
3	0.4100	20.66	20.51	41.17	57.65	-16.48	QP
4	0.4100	4.00	20.51	24.51	47.65	-23.14	AVG
5	0.8180	21.11	20.23	41.34	56.00	-14.66	QP
6	0.8180	5.12	20.23	25.35	46.00	-20.65	AVG
7	2.0940	21.29	20.14	41.43	56.00	-14.57	QP
8	2.0940	3.18	20.14	23.32	46.00	-22.68	AVG
9	7.1900	21.82	19.90	41.72	60.00	-18.28	QP
10	7.1900	7.26	19.90	27.16	50.00	-22.84	AVG
11	18.5540	19.23	20.48	39.71	60.00	-20.29	QP
12	18.5540	11.69	20.48	32.17	50.00	-17.83	AVG

Remark:

1. All readings are Quasi-Peak and Average values

- 2. Margin = Result (Result = Reading + Factor)-Limit
- 3. Factor=LISN factor+Cable loss+Limiter (10dB)

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)

	(dBuV/m) (at 3M)		
FREQUENCY (MHz)	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).

### LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

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For Radiated Emission

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/QP/AV	
Start Frequency	9 KHz/150KHz(Peak/QP/AV)	
Stop Frequency	150KHz/30MHz(Peak/QP/AV)	
	200Hz (From 9kHz to 0.15MHz)/	
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);	
band)	200Hz (From 9kHz to 0.15MHz)/	
	9KHz (From 0.15MHz to 30MHz)	

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/QP	
Start Frequency	30 MHz(Peak/QP)	
Stop Frequency	1000 MHz (Peak/QP)	
RB / VB (emission in restricted band)	120 KHz / 300 KHz	

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	1 MHz / 3 MHz(Peak)	
band)	1 MHz/1/T MHz(AVG)	

For Restricted band

Spectrum Parameter	Setting	
Detector	Peak/AV	
Start/Stan Fraguanay	Lower Band Edge: 2310 to 2410 MHz	
Start/Stop Frequency	Upper Band Edge: 2475 to 2500 MHz	
	1 MHz / 3 MHz(Peak)	
RB / VB	1 MHz/1/T MHz(AVG)	

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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

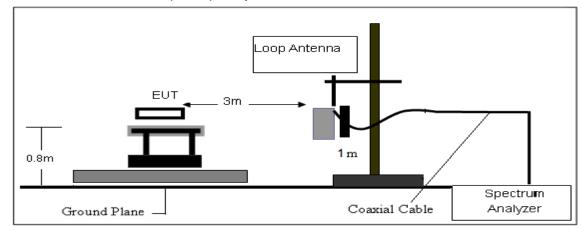
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine 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.

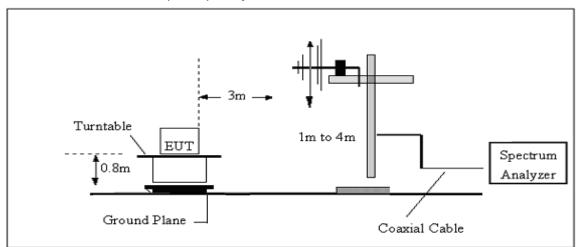


# 4.3 TEST SETUP

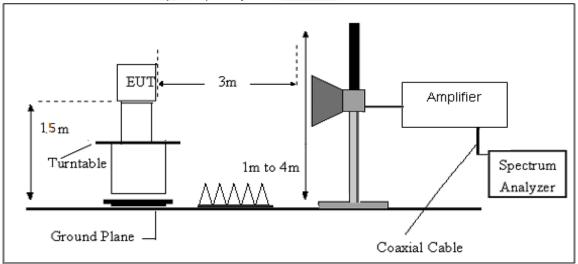
(A) Radiated Emission Test-Up Frequency Below 30MHz



### (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.



# 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 - AG Where 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





### 4.6 TEST RESULTS

### (Between 9KHz - 30 MHz)

Temperature:	23.2(C)	Relative Humidtity:	61%RH
Test Voltage:	DC 3.7V	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.





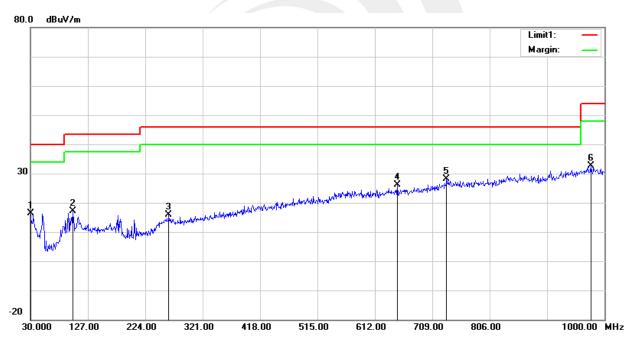
(30MHz -1000MHz)

Temperature:	23.2(C)	Relative Humidity:	61%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	29.27	-12.85	16.42	40.00	-23.58	QP
2	101.7800	36.99	-19.94	17.05	43.50	-26.45	QP
3	263.7700	30.69	-14.75	15.94	46.00	-30.06	QP
4	649.8300	30.97	-4.90	26.07	46.00	-19.93	QP
5	733.2500	30.49	-2.35	28.14	46.00	-17.86	QP
6	976.7200	30.10	2.45	32.55	54.00	-21.45	QP

Remark:

- 1. Margin = Result (Result = Reading + Factor )-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





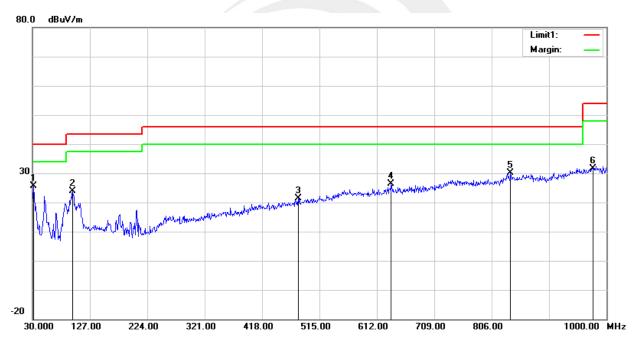
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Temperature:	23.2(C)	Relative Humidity:	61%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	Mode 1/2/3 (Mode 1 worst mo	ode)	

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.9400	39.48	-13.86	25.62	40.00	-14.38	QP
2	97.9000	44.34	-20.46	23.88	43.50	-19.62	QP
3	479.1100	30.10	-8.68	21.42	46.00	-24.58	QP
4	636.2500	31.22	-4.92	26.30	46.00	-19.70	QP
5	838.0100	30.47	-0.42	30.05	46.00	-15.95	QP
6	976.7200	29.19	2.45	31.64	54.00	-22.36	QP

Remark:

- 1. Margin = Result (Result = Reading + Factor )-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





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# (1GHz-25GHz) Spurious emission Requirements

GFSK

					<u> </u>					
Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Orrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				Low C	hannel (2402	MHz)				
3264.90	61.93	44.70	6.70	28.20	-9.80	52.13	74.00	-21.87	PK	Vertical
3264.90	50.47	44.70	6.70	28.20	-9.80	40.67	54.00	-13.33	AV	Vertical
3264.60	61.73	44.70	6.70	28.20	-9.80	51.93	74.00	-22.07	PK	Horizontal
3264.60	50.94	44.70	6.70	28.20	-9.80	41.14	54.00	-12.86	AV	Horizontal
4804.37	59.33	44.20	9.04	31.60	-3.56	55.77	74.00	-18.23	PK	Vertical
4804.37	50.22	44.20	9.04	31.60	-3.56	46.66	54.00	-7.34	AV	Vertical
4804.59	59.38	44.20	9.04	31.60	-3.56	55.82	74.00	-18.18	PK	Horizontal
4804.59	49.70	44.20	9.04	31.60	-3.56	46.14	54.00	-7.86	AV	Horizontal
5359.64	49.38	44.20	9.86	32.00	-2.34	47.04	74.00	-26.96	PK	Vertical
5359.64	39.13	44.20	9.86	32.00	-2.34	36.79	54.00	-17.21	AV	Vertical
5359.64	48.46	44.20	9.86	32.00	-2.34	46.12	74.00	-27.88	PK	Horizontal
5359.64	39.17	44.20	9.86	32.00	-2.34	36.83	54.00	-17.17	AV	Horizontal
7205.94	53.81	43.50	11.40	35.50	3.40	57.21	74.00	-16.79	PK	Vertical
7205.94	43.51	43.50	11.40	35.50	3.40	46.91	54.00	-7.09	AV	Vertical
7205.70	54.60	43.50	11.40	35.50	3.40	58.00	74.00	-16.00	PK	Horizontal
7205.70	43.65	43.50	11.40	35.50	3.40	47.05	54.00	-6.95	AV	Horizontal
			•	Middle	Channel (244	0 MHz)		•	•	
3264.72	60.84	44.70	6.70	28.20	-9.80	51.04	74.00	-22.96	PK	Vertical
3264.72	51.07	44.70	6.70	28.20	-9.80	41.27	54.00	-12.73	AV	Vertical
3264.78	62.01	44.70	6.70	28.20	-9.80	52.21	74.00	-21.79	PK	Horizontal
3264.78	50.97	44.70	6.70	28.20	-9.80	41.17	54.00	-12.83	AV	Horizontal
4880.55	58.45	44.20	9.04	31.60	-3.56	54.89	74.00	-19.11	PK	Vertical
4880.55	50.22	44.20	9.04	31.60	-3.56	46.66	54.00	-7.34	AV	Vertical
4880.46	59.36	44.20	9.04	31.60	-3.56	55.80	74.00	-18.20	PK	Horizontal
4880.46	49.92	44.20	9.04	31.60	-3.56	46.36	54.00	-7.64	AV	Horizontal
5359.69	48.40	44.20	9.86	32.00	-2.34	46.06	74.00	-27.94	PK	Vertical
5359.69	39.94	44.20	9.86	32.00	-2.34	37.60	54.00	-16.40	AV	Vertical
5359.60	47.29	44.20	9.86	32.00	-2.34	44.95	74.00	-29.05	PK	Horizontal
5359.60	39.24	44.20	9.86	32.00	-2.34	36.90	54.00	-17.10	AV	Horizontal
7320.81	54.17	43.50	11.40	35.50	3.40	57.57	74.00	-16.43	PK	Vertical
7320.81	44.71	43.50	11.40	35.50	3.40	48.11	54.00	-5.89	AV	Vertical
7320.91	54.25	43.50	11.40	35.50	3.40	57.65	74.00	-16.35	PK	Horizontal
7320.91	43.62	43.50	11.40	35.50	3.40	47.02	54.00	-6.98	AV	Horizontal



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				High C	hannel (248	0 MHz)				
3264.72	61.92	44.70	6.70	28.20	-9.80	52.12	74.00	-21.88	PK	Vertical
3264.72	50.74	44.70	6.70	28.20	-9.80	40.94	54.00	-13.06	AV	Vertical
3264.73	61.29	44.70	6.70	28.20	-9.80	51.49	74.00	-22.51	PK	Horizontal
3264.73	50.30	44.70	6.70	28.20	-9.80	40.50	54.00	-13.50	AV	Horizontal
4960.28	59.17	44.20	9.04	31.60	-3.56	55.61	74.00	-18.39	PK	Vertical
4960.28	50.39	44.20	9.04	31.60	-3.56	46.83	54.00	-7.17	AV	Vertical
4960.40	58.91	44.20	9.04	31.60	-3.56	55.35	74.00	-18.65	PK	Horizontal
4960.40	49.83	44.20	9.04	31.60	-3.56	46.27	54.00	-7.73	AV	Horizontal
5359.87	48.37	44.20	9.86	32.00	-2.34	46.03	74.00	-27.97	PK	Vertical
5359.87	39.76	44.20	9.86	32.00	-2.34	37.42	54.00	-16.58	AV	Vertical
5359.76	47.62	44.20	9.86	32.00	-2.34	45.28	74.00	-28.72	PK	Horizontal
5359.76	38.92	44.20	9.86	32.00	-2.34	36.58	54.00	-17.42	AV	Horizontal
7439.82	54.27	43.50	11.40	35.50	3.40	57.67	74.00	-16.33	PK	Vertical
7439.82	44.49	43.50	11.40	35.50	3.40	47.89	54.00	-6.11	AV	Vertical
7439.82	53.52	43.50	11.40	35.50	3.40	56.92	74.00	-17.08	PK	Horizontal
7439.82	44.40	43.50	11.40	35.50	3.40	47.80	54.00	-6.20	AV	Horizontal

### Note:

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

Emission Level = Reading + Factor

2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

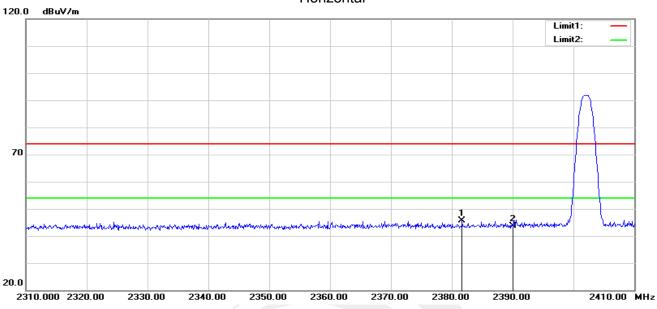




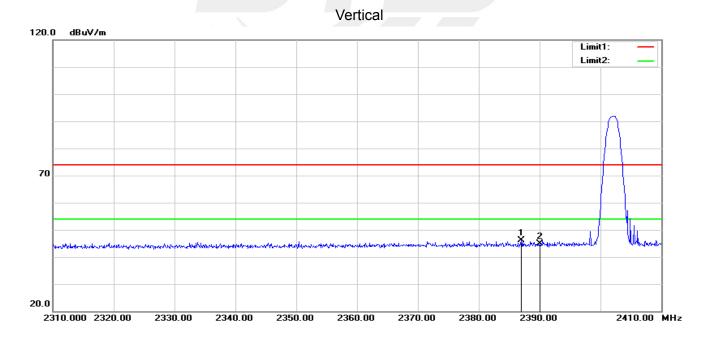
Report No.: STS2009191W04

# 4.6 TEST RESULTS (Restricted Bands Requirements)

**GFSK-Low** Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2381.700	41.32	4.22	45.54	74.00	-28.46	peak
2	2390.000	39.33	4.34	43.67	74.00	-30.33	peak



No. Frequency Reading Correct Result Limit Margin Remark Factor(dB/m) (dBuV/m) (MHz) (dBuV) (dBuV/m) (dB) 2387.000 41.88 4.30 46.18 74.00 -27.82 1 peak 2 2390.000 40.62 4.34 44.96 74.00 -29.04 peak

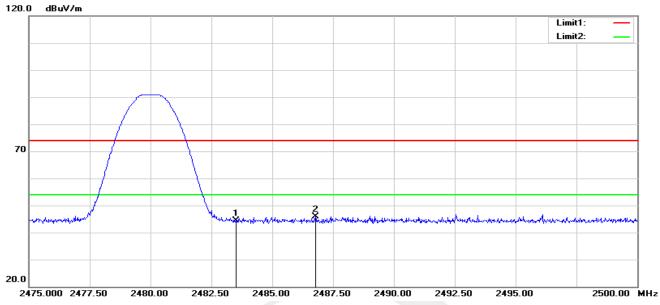
Shenzhen STS Test Services Co., Ltd.



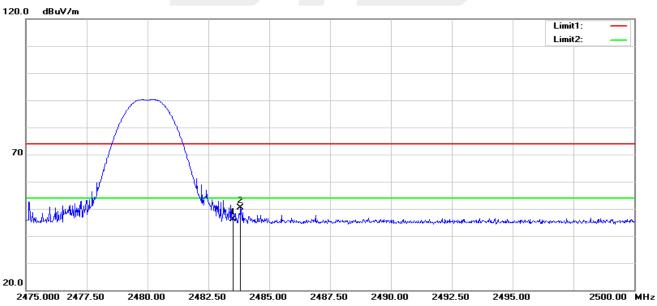
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### **GFSK-High** Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	39.79	4.60	44.39	74.00	-29.61	peak
2	2486.775	41.32	4.62	45.94	74.00	-28.06	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	41.44	4.60	46.04	74.00	-27.96	peak
2	2483.825	45.86	4.61	50.47	74.00	-23.53	peak

Vertical

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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.

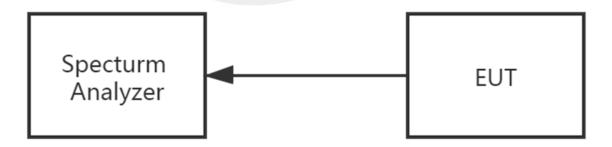
### 5.2 TEST PROCEDURE

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 Eraguanay	Lower Band Edge: 2300 – 2407 MHz				
Start/Stop Frequency	Peak Lower Band Edge: 2300 – 2407 MHz Upper Band Edge: 2475 – 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 Please refer to section 3.1.4 of this report.



# 5.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	50%
Test Voltage:	DC 3.7V		TX Mode /CH00, CH19, CH39

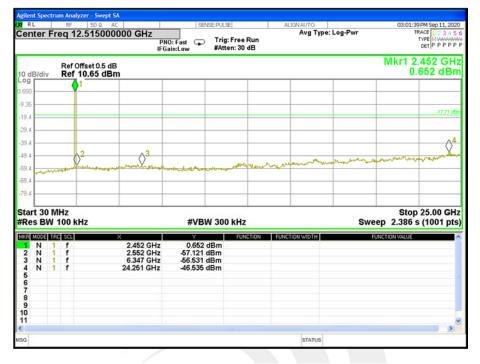
### 00 CH

RL		RF	50 Q		SENSE:PUL!	Æ	ALIGN AUTO			0 PM Sep 11, 202
enter	· Fre	eq 1	2.51500	0000 GHz PNO IFGa		: Free Run en: 30 dB	Avg 1	lype: Log-Pwr		TYPE MWWWW DET P P P P P
0 dB/di	iv		)ffset 0.5 d 12.40 dE						Mkr1 2 2.	.402 GH 395 dBn
2.40		- (	1							
7.60										
7.6		_								-17.21 dB
7.6		_								
7.6		_								4
7.6		-	<mark>2</mark>					manan		hank
7.6	han	and	- Andrews		mada marana	man	and a second second	the second second		-
7.6		_								
7.6										
tart 3 Res B			Hz		#VBW 300	) kHz		Sw	Stop eep 2.386	25.00 GH
KR MOD	E TRO	SCL		X	Y 0.205 dBm	FUNCTION	FUNCTION WIDTH	1	FUNCTION VALUE	
1 N 2 N	1	f		2.402 GHz 3.176 GHz	2.395 dBm -57.050 dBm					
3 N	1	f		5.898 GHz 24.326 GHz	-55.713 dBm -47.024 dBm					
4 N										
5										
5 6 7										
5 6 7 8 9										
4 N 5 6 7 8 9 0										

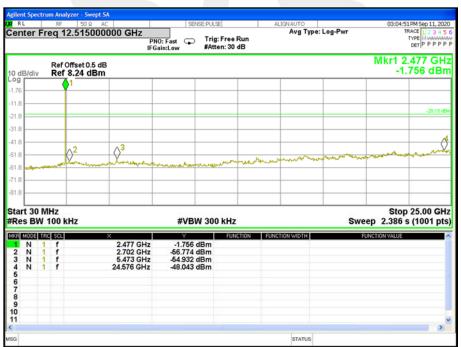
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#### 19 CH



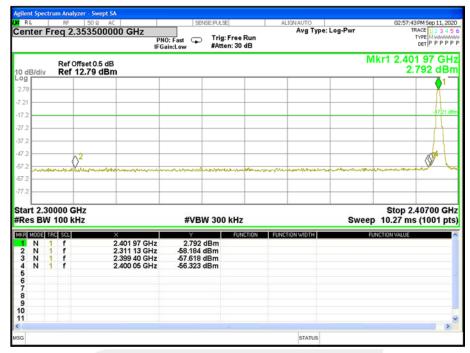
39 CH





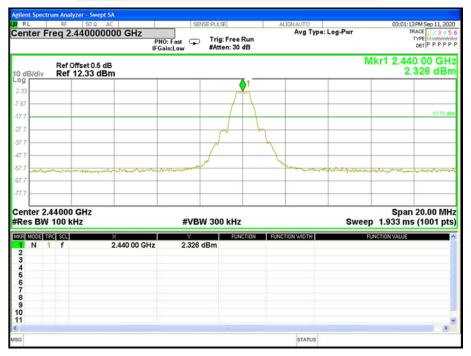


### For Band edge(it's also the reference level for conducted spurious emission)



#### 00 CH

#### 19 CH



Shenzhen STS Test Services Co., Ltd.



# 39 CH

	50 Q AC	SENSE:PI	JUSE	ALIGNAUTO Avg Type:	og-Pwr		PM Sep 11, 20
nter Freq 2.48	7500000 GHZ	PNO: Fast 🖵 Ti IFGain:Low ##	rig: Free Run Atten: 30 dB	Avg type.	Log-Fwi	1	YPE MWWW DET P P P P
Ref Offs dB/div Ref 9.8					M	kr1 2.480 -0.1	000 GH 147 dB
5	1						
2							-20.15 (
2							
2	$\int $						
2 ara man	/ \	$\wedge^2$ $\wedge^3$			_ ↓		
2					1		~~~~~~
2							
art 2.47500 GHz es BW 100 kHz		#VBW 3	00 kHz		Swee	Stop 2.4 p 2.400 ms	50000 GI (1001 pi
MODE TRC SCL	×	Y		FUNCTION WIDTH	f	UNCTION VALUE	
N 1 f N 1 f N 1 f N 1 f	2.480 000 GH 2.483 500 GH 2.485 375 GH 2.493 400 GH	Iz -59.088 dBm Iz -57.794 dBm					



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# 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



6.4 EUT OPERATION CONDITIONS Please refer to section 3.1.4 of this report.



# 6.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Lest Mode.	TX Mode /CH00, CH19, CH39

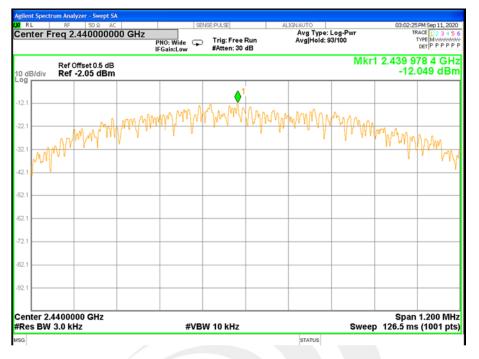
Fraguanay	Power Density	Limit (2KHZ/dPm)	Popult	
Frequency	(dBm/3kHz)	Limit (3KHZ/dBm)	Result	
2402 MHz	-11.633	≤8	PASS	
2440 MHz	-12.049	≤8	PASS	
2480 MHz	-14.525	≤8	PASS	

# TX CH00





#### TX CH19



**TX CH39** 



Shenzhen STS Test Services Co., Ltd.



# 7. BANDWIDTH TEST

7.1 LIMIT

FCC Part 15.247,Subpart C				
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

Please refer to section 3.1.4 of this report.



# 7.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Lest Mode.	TX Mode /CH00, CH19, CH39

Frequency	6dB Bandwidth (KHz)	Limit (KHz)	Result
2402 MHz	691.500	≥500KHz	PASS
2440 MHz	692.100	≥500KHz	PASS
2480 MHz	685.600	≥500KHz	PASS

# **TX CH 00**

RL RF 50 Ω AC	S	ENSE:PULSE	ALIGNAUTO	02:56:49 PM Sep 11, 202
nter Freq 2.40200000		Center Freq: 2.4020000		Radio Std: None
	#IFGain:Low	⊃ Trig: Free Run #Atten: 30 dB	Avg Hold:>10/10	Radio Device: BTS
dB/div Ref 20.00 dBm				
3				
0				
0				
0				
0				
0				
0				
0				
enter 2.402 GHz tes BW 100 kHz		#VBW 300 ki	Hz	Span 2 MH Sweep 1 m
Occupied Bandwidth	1	Total Power	9.65 dBm	
1.0	0408 MHz			
Transmit Freq Error	5.516 kHz	OBW Power	99.00 %	
x dB Bandwidth	691.5 kHz	x dB	-6.00 dB	



### TX CH 19

RL         RF         50 Ω         AC           enter Freq 2.440000000	GHz	Center Freq: 2.4400000	ALIGNAUTO 000 GHz Avg Hold:>10/10	03:00:23 PM Sep 11, 202 Radio Std: None
	#IFGain:Low	#Atten: 30 dB	Avginola.> Io/Io	Radio Device: BTS
dB/div Ref 20.00 dBm	1			
<b>o</b> g				
00				
1.0				
.0	1			
0				
0				
0				
.0				
.0				
enter 2.44 GHz Res BW 100 kHz		#VBW 300 k	Hz	Span 2 MH Sweep 1 m
Occupied Bandwidth	า	Total Power	9.20 dBm	
1.0	0413 MHz			
Transmit Freq Error	6.313 kHz	OBW Power	99.00 %	
x dB Bandwidth	692.1 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

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:

1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.

2) RBW > 20 dB bandwidth of the emission being measured.

3) VBW  $\geq$  RBW.

4) Sweep: Auto.

5) Detector function: Peak.

6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

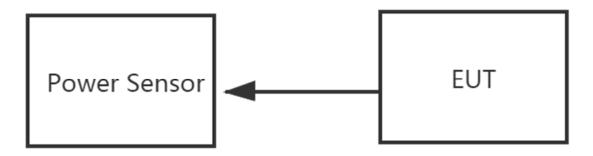
e) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DSS bandwidth and shall use a fast-responding diode detector.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS Please refer to section 3.1.4 of this report.



#### **8.5 TEST RESULTS**

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V		TX Mode /CH00, CH19, CH39

Test Channe	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH0	2402	3.41	3.02	30
CH19	2440	2.69	2.51	30
CH39	2480	1.03	0.79	30

Note: Our power sensor test AVG power has no duty cycle display. The power sensor measures AVG power is Burst power. The software has considered the factor of the duty cycle factor, so it is unnecessary to add it again.

### Duty cycle



Ton	Тр	Duty cycle(%)	Duty factor(dB)
0.398	0.626	63.58%	1.97



# 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.



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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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