

RADIO TEST REPORT

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Report No:STS1907173W03

Issued for

GODOX PHOTO EQUIPMENT CO.LTD

19th Floor,Room 1902,Building Jinshan,5033 Shennan,East Road,Luohu District,Shenzhen 518001,China

Product Name:	Flexible LED Light			
Brand Name:	Godox			
Model Name:	FL150S			
Series Model:	FL150R,FL100,FL60			
FCC ID:	2ABYN004			
Test Standard:	FCC Part 15.247			

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Report No.: STS1907173W03

TEST RESULT CERTIFICATION

Applicant's Name	GODOX PHOTO EQUIPMENT CO.LTD
Address	19th Floor,Room 1902,Building Jinshan,5033 Shennan,East Road,Luohu District,Shenzhen 518001,China
Manufacture's Name	GODOX PHOTO EQUIPMENT CO.LTD
Address	1st to 4th Floor,Building 2/1st to 4th Floor,Building 4,Yaochuan Industrial Zone,Tangwei Community,Fuhai Street,Bao' an District,Shenzhen 518103,China
Product Description	
Product Name:	Flexible LED Light
Brand Name:	Godox
Model Name	FL150S
Series Model	FL150R,FL100,FL60
Test Standards	

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	15 July 2019 ~ 18 July 2019
Date of Issue:	22 July 2019

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Test Result..... Pass

Test Procedure ANSI C63.10-2013

Testing Engineer

(Chris Chen)

Technical Manager

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(Sunday Hu)



Authorized Signatory :

(Vita Li)

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Page 3 of 42 Report No.: STS1907173W03



Table of Contents

1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF THE TEST MODES	10
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	11
2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	12
2.5 EQUIPMENTS LIST	13
3. EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.2 TEST PROCEDURE	15
3.3 TEST SETUP	15
3.4 EUT OPERATING CONDITIONS	15
3.5 TEST RESULTS	16
4. RADIATED EMISSION MEASUREMENT	18
4.1 RADIATED EMISSION LIMITS	18
4.2 TEST PROCEDURE	19
4.3 TEST SETUP	20
4.4 EUT OPERATING CONDITIONS	20
4.5 FIELD STRENGTH CALCULATION	21
4.6 TEST RESULTS	22
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION	29
5.1 LIMIT	29
5.2 TEST PROCEDURE	29
5.3 TEST SETUP	29
5.4 EUT OPERATION CONDITIONS	29
5.5 TEST RESULTS	30
6. POWER SPECTRAL DENSITY TEST	33
6.1 LIMIT	33
6.2 TEST PROCEDURE	33
6.3 TEST SETUP	33
6.4 EUT OPERATION CONDITIONS	33

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Page 4 of 42 Report No.: STS1907173W03



Table of Contents

6.5 TEST RESULTS	34
7. BANDWIDTH TEST	36
7.1 LIMIT	36
7.2 TEST PROCEDURE	36
7.3 TEST SETUP	36
7.4 EUT OPERATION CONDITIONS	36
7.5 TEST RESULTS	37
8. PEAK OUTPUT POWER TEST	39
8.1 LIMIT	39
8.2 TEST PROCEDURE	39
8.3 TEST SETUP	39
8.4 EUT OPERATION CONDITIONS	39
8.5 TEST RESULTS	40
9. ANTENNA REQUIREMENT	41
9.1 STANDARD REQUIREMENT	41
9.2 EUT ANTENNA	41
10. EUT TEST PHOTO	42



Page 5 of 42 F

Report No.: STS1907173W03

Revision History

Rev.	Rev. Issue Date Report NO.		Effect Page	Contents	
00	22 July 2019 STS1907173W03		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	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	Flexible LED Light				
Trade Name	Godox				
Model Name	FL150S				
Series Model	FL150R,FL100,FL60				
Model Difference	 A.FL150S and FL150R share a control box and adapter (DC16.8V, 10A) with a power of 150W. the differences are: LED lamps are different in shape, FL150S is square and FL150R is rectangular; B.FL100 is compared with FL150S, with the following differences: 1. the number of diodes and MOS tubes in the control box is different; 2. adapters (DC16.8, 7A); 3. the number of LED bulbs is different, and the output power is 100W; C. FL60 is compared with FL150S, with the following differences: 1. the number of diodes and MOS tubes in the control box is different; 2. adapters (DC16.8, 4.2A); 3. the number of LED bulbs is different; 2. adapters (DC16.8, 4.2A); 3. the number of LED bulbs is different, with an output power of 60W. 				
	The EUT is a Flexible LED Light				
	Operation Frequency:	2402~2480 MHz			
	Modulation Type:	GFSK			
Product Description	Radio Technology:	BLE			
	Number Of Channel:	40			
	Antenna Designation:	Please see Note 3.			
	Antenna Gain (dBi)	5 dBi			
Channel List	Please refer to the I	Note 2.			
Adapter	Input: 100-240V, 50/60Hz, 2.0A Output: DC16.8V, 10A				
Hardware version number	LK8308 V1.0				
Software version number	V2.1				
Connecting I/O Port(s)	Please refer to the l	Jser's Manual			

Note:

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



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	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	Godox	FL150S	Omnidirectional	Externally threaded inner needle	5 dBi	BLE ANT.



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Page 10 of 42 Report No.: STS1907173W03



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.

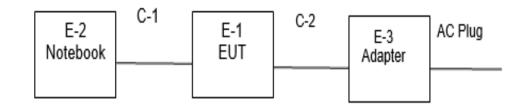
For AC Conducted Emission

AC Conducted	
Emission Mode 4 : Keeping BT TX	



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test





AC Plug E-3 C-2 E-1 E-2 Notebook

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Conducted 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.

	Necessary accessories							
Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note			
E-3	Adapter	N/A	G168-168100	N/A	N/A			
C-2	DC Cable	N/A	100cm	N/A	N/A			

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-3	Notebook	HP	500-320cx	N/A	N/A
C-2	USB Cable	N/A	110cm	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.
- (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			

Page 14 of 42 Report No.: STS1907173W03



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

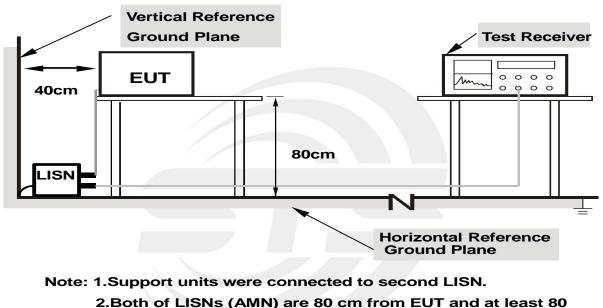
Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

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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

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.

from other units and other metal planes



3.5 TEST RESULTS

Temperature:	26°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		

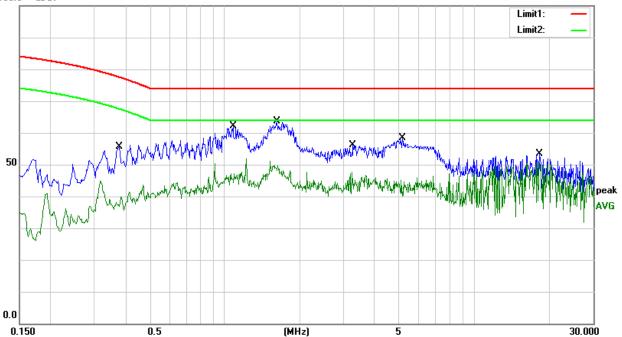
No.	Frequenc y	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1500	30.65	21.20	51.85	66.00	-14.15	QP
2	0.1500	29.77	21.20	50.97	56.00	-5.03	AVG
3	0.2260	27.66	19.97	47.63	62.60	-14.97	QP
4	0.2260	23.67	19.97	43.64	52.60	-8.96	AVG
5	0.4180	22.63	20.15	42.78	57.49	-14.71	QP
6	0.4180	21.44	20.15	41.59	47.49	-5.90	AVG
7	0.7940	17.52	19.97	37.49	56.00	-18.51	QP
8	0.7940	15.66	19.97	35.63	46.00	-10.37	AVG
9	2.5620	18.58	20.00	38.58	56.00	-17.42	QP
10	2.5620	14.49	20.00	34.49	46.00	-11.51	AVG
11	8.1500	14.41	20.28	34.69	60.00	-25.31	QP
12	8.1500	8.47	20.28	28.75	50.00	-21.25	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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Page 17 of 42 Report No.: STS1907173W03

Temperature:	26℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Phase:	Ν
Test Mode:	Mode 4		

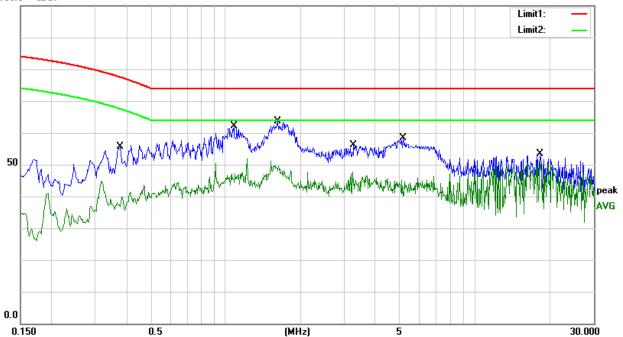
No.	Frequenc y	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.2380	33.06	19.96	53.02	62.17	-9.15	QP
2	0.2380	27.69	19.96	47.65	52.17	-4.52	AVG
3	0.4100	24.18	20.17	44.35	57.65	-13.30	QP
4	0.4100	20.11	20.17	40.28	47.65	-7.37	AVG
5	0.7540	24.12	19.98	44.10	56.00	-11.90	QP
6	0.7540	20.63	19.98	40.61	46.00	-5.39	AVG
7	1.1020	25.12	19.91	45.03	56.00	-10.97	QP
8	1.1020	20.61	19.91	40.52	46.00	-5.48	AVG
9	2.4740	26.40	20.00	46.40	56.00	-9.60	QP
10	2.4740	20.64	20.00	40.64	46.00	-5.36	AVG
11	6.9620	21.24	20.20	41.44	60.00	-18.56	QP
12	6.9620	13.15	20.20	33.35	50.00	-16.65	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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Page 18 of 42

Report No.: STS1907173W03



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).

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		
Ctort/Ston Examinant	Lower Band Edge: 2300 to 2403 MHz		
Start/Stop Frequency	Upper Band Edge: 2479 to 2500 MHz		
RB / VB (emission in restricted band)	1 MHz / 3 MHz		

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Page 19 of 42 Report No.: STS1907173W03



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

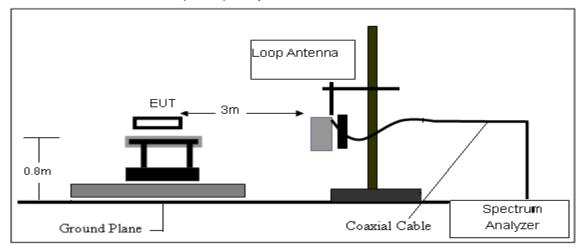
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine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

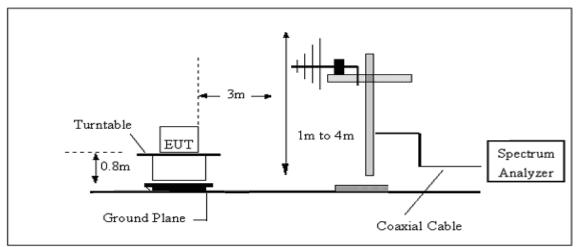


4.3 TEST SETUP

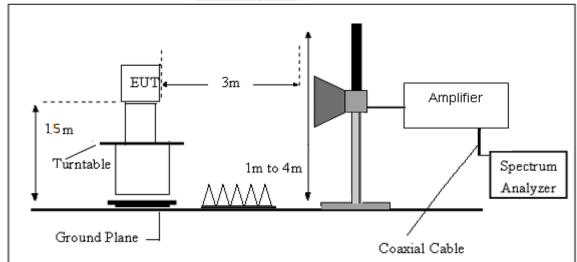
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:	26.1(C)	Relative Humidtity:	64%RH
Test Voltage:	AC 120V/60Hz	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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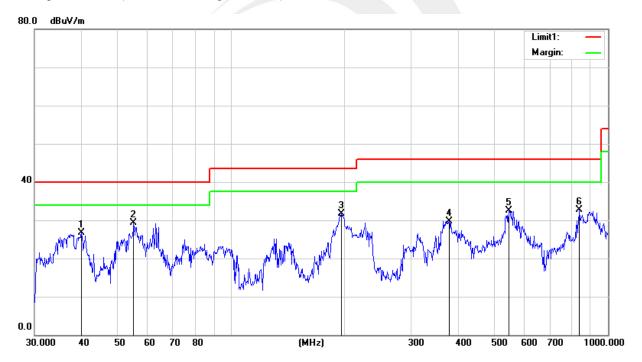
(30MHz -1000MHz)

Temperature:	26.1(C)	Relative Humidtity:	64%RH			
Test Voltage:	AC 120V/60Hz	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	39.9941	42.97	-16.32	26.65	40.00	-13.35	QP
2	55.0274	52.13	-22.92	29.21	40.00	-10.79	QP
3	195.8220	51.98	-20.21	31.77	43.50	-11.73	QP
4	378.5842	42.45	-12.66	29.79	46.00	-16.21	QP
5	545.1825	39.44	-6.89	32.55	46.00	-13.45	QP
6	839.1816	35.53	-2.78	32.75	46.00	-13.25	QP

Remark:

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





Page 24 of 42 Report No.: STS1907173W03

Temperature:	26.1(C)	Relative Humidtity:	64%RH		
Test Voltage:	AC 120V/60Hz	Phase:	Vertical		
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	37.9450	45.04	-15.26	29.78	40.00	-10.22	QP
2	62.8708	53.84	-24.27	29.57	40.00	-10.43	QP
3	197.8925	54.75	-20.19	34.56	43.50	-8.94	QP
4	312.1792	43.84	-14.42	29.42	46.00	-16.58	QP
5	556.7744	36.38	-6.63	29.75	46.00	-16.25	QP
6	839.1816	36.03	-2.78	33.25	46.00	-12.75	QP

Remark:

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



Shenzhen STS Test Services Co., Ltd.



Page 25 of 42

Report No.: STS1907173W03

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

(-	,				GFSK	rivequirei				
Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Orrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(d B)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Common
				Low C	Channel (2402	MHz)				
3264.65	62.07	44.70	6.70	28.20	-9.80	52.27	74.00	-21.73	PK	Vertical
3264.65	50.34	44.70	6.70	28.20	-9.80	40.54	54.00	-13.46	AV	Vertical
3264.62	61.68	44.70	6.70	28.20	-9.80	51.88	74.00	-22.12	PK	Horizontal
3264.62	51.02	44.70	6.70	28.20	-9.80	41.22	54.00	-12.78	AV	Horizontal
4804.47	58.95	44.20	9.04	31.60	-3.56	55.39	74.00	-18.61	PK	Vertical
4804.47	49.61	44.20	9.04	31.60	-3.56	46.05	54.00	-7.95	AV	Vertical
4804.59	58.34	44.20	9.04	31.60	-3.56	54.78	74.00	-19.22	PK	Horizontal
4804.59	49.27	44.20	9.04	31.60	-3.56	45.71	54.00	-8.29	AV	Horizontal
5359.84	49.09	44.20	9.86	32.00	-2.34	46.75	74.00	-27.25	PK	Vertical
5359.84	39.16	44.20	9.86	32.00	-2.34	36.82	54.00	-17.18	AV	Vertical
5359.77	48.36	44.20	9.86	32.00	-2.34	46.02	74.00	-27.98	PK	Horizontal
5359.77	38.88	44.20	9.86	32.00	-2.34	36.54	54.00	-17.46	AV	Horizontal
7205.72	54.19	43.50	11.40	35.50	3.40	57.59	74.00	-16.41	PK	Vertical
7205.72	44.06	43.50	11.40	35.50	3.40	47.46	54.00	-6.54	AV	Vertical
7205.88	54.12	43.50	11.40	35.50	3.40	57.52	74.00	-16.48	PK	Horizontal
7205.88	44.85	43.50	11.40	35.50	3.40	48.25	54.00	-5.75	AV	Horizontal
				Middle	Channel (244	0 MHz)				
3264.64	62.22	44.70	6.70	28.20	-9.80	52.42	74.00	-21.58	PK	Vertical
3264.64	50.53	44.70	6.70	28.20	-9.80	40.73	54.00	-13.27	AV	Vertical
3264.72	61.52	44.70	6.70	28.20	-9.80	51.72	74.00	-22.28	PK	Horizontal
3264.72	49.92	44.70	6.70	28.20	-9.80	40.12	54.00	-13.88	AV	Horizontal
4880.57	58.60	44.20	9.04	31.60	-3.56	55.04	74.00	-18.96	PK	Vertical
4880.57	50.27	44.20	9.04	31.60	-3.56	46.71	54.00	-7.29	AV	Vertical
4880.32	58.34	44.20	9.04	31.60	-3.56	54.78	74.00	-19.22	PK	Horizontal
4880.32	49.84	44.20	9.04	31.60	-3.56	46.28	54.00	-7.72	AV	Horizontal
5359.72	48.66	44.20	9.86	32.00	-2.34	46.32	74.00	-27.68	PK	Vertical
5359.72	39.91	44.20	9.86	32.00	-2.34	37.57	54.00	-16.43	AV	Vertical
5359.74	48.04	44.20	9.86	32.00	-2.34	45.70	74.00	-28.30	PK	Horizontal
5359.74	38.67	44.20	9.86	32.00	-2.34	36.33	54.00	-17.67	AV	Horizontal
7320.87	53.71	43.50	11.40	35.50	3.40	57.11	74.00	-16.89	PK	Vertical
7320.87	43.52	43.50	11.40	35.50	3.40	46.92	54.00	-7.08	AV	Vertical
7320.77	54.88	43.50	11.40	35.50	3.40	58.28	74.00	-15.72	PK	Horizontal
7320.77	44.22	43.50	11.40	35.50	3.40	47.62	54.00	-6.38	AV	Horizontal

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Page 26 of 42 Report No.: STS1907173W03

				High C	hannel (248	0 MHz)				
3264.65	61.29	44.70	6.70	28.20	-9.80	51.49	74.00	-22.51	PK	Vertical
3264.65	50.78	44.70	6.70	28.20	-9.80	40.98	54.00	-13.02	AV	Vertical
3264.75	61.77	44.70	6.70	28.20	-9.80	51.97	74.00	-22.03	PK	Horizontal
3264.75	50.38	44.70	6.70	28.20	-9.80	40.58	54.00	-13.42	AV	Horizontal
4960.45	58.99	44.20	9.04	31.60	-3.56	55.43	74.00	-18.57	PK	Vertical
4960.45	50.11	44.20	9.04	31.60	-3.56	46.55	54.00	-7.45	AV	Vertical
4960.52	58.15	44.20	9.04	31.60	-3.56	54.59	74.00	-19.41	PK	Horizontal
4960.52	50.53	44.20	9.04	31.60	-3.56	46.97	54.00	-7.03	AV	Horizontal
5359.88	49.37	44.20	9.86	32.00	-2.34	47.03	74.00	-26.97	PK	Vertical
5359.88	39.85	44.20	9.86	32.00	-2.34	37.51	54.00	-16.49	AV	Vertical
5359.79	48.09	44.20	9.86	32.00	-2.34	45.75	74.00	-28.25	PK	Horizontal
5359.79	38.73	44.20	9.86	32.00	-2.34	36.39	54.00	-17.61	AV	Horizontal
7439.69	54.33	43.50	11.40	35.50	3.40	57.73	74.00	-16.27	PK	Vertical
7439.69	44.86	43.50	11.40	35.50	3.40	48.26	54.00	-5.74	AV	Vertical
7439.96	54.79	43.50	11.40	35.50	3.40	58.19	74.00	-15.81	PK	Horizontal
7439.96	43.67	43.50	11.40	35.50	3.40	47.07	54.00	-6.93	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)

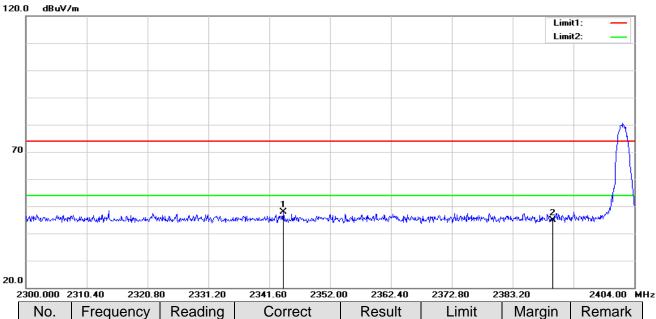
below the limit, the frequency emission is mainly from the environment noise.



Report No.: STS1907173W03

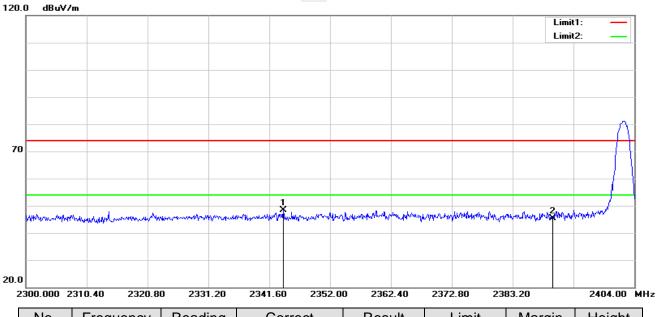
4.6 TEST RESULTS (Restricted Bands Requirements)

GFSK-Low Horizontal



l	110.	Troquomoy	rtodding	0011000	rtooun		margin	rtomant
		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	BuV/m) (dBuV/m)		
	1	2343.992	58.91	-11.05	47.86	74.00	-26.14	peak
	2	2390.000	55.68	-10.75	44.93	74.00	-29.07	peak

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)
1	2343.992	59.41	-11.05	48.36	74.00	-25.64	
2	2390.000	56.18	-10.75	45.43	74.00	-28.57	

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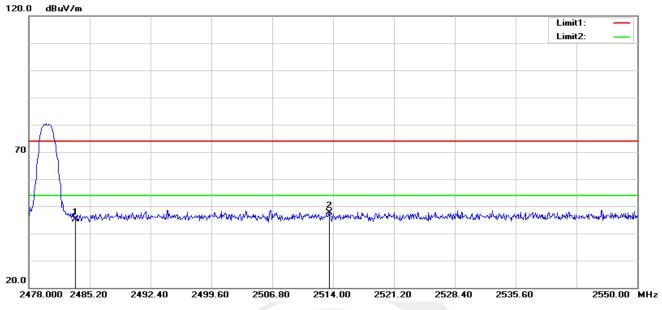
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Page 28 of 42

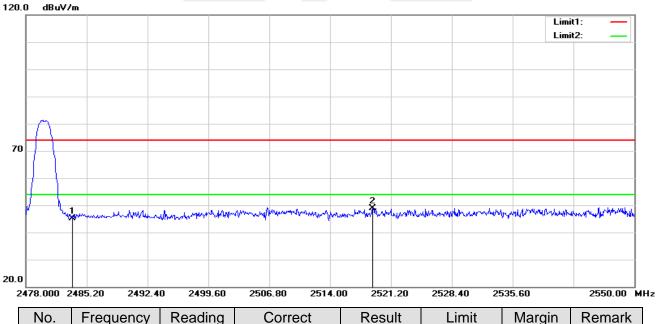
Report No.: STS1907173W03

GFSK-High Horizontal



No.	Frequency	Reading	Reading Correct		Result Limit		Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	55.51	-10.29	45.22	74.00	-28.78	peak
2	2513.568	57.69	-10.17	47.52	74.00	-26.48	peak

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	55.51	-10.29	45.22	74.00	-28.78	peak
2	2519.040	59.00	-10.16	48.84	74.00	-25.16	peak



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				
Stort/Stop Fraguenes/	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 Adapter, 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:	25 ℃	Relative Humidity:	50%
Test Voltage:	AC 120V/60Hz	Lest Mode.	TX Mode /CH37, CH17, CH39

		RF 50 Ω		SEN	ISE:INT	ALIGN AUTO			AM Jul 18, 20
nter	Fred	q 12.5150		PNO: Fast 😱 Gain:Low	Trig: Free Run #Atten: 30 dB	Avg T	ype: Log-Pwr	T	CE 1 2 3 4 5 PE MWWW DET P P P P
dB/div	R	tef 11.24 o	1Bm					Mkr1 2.40 1.2	2 2 GH 41 dB
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3									
3									
	мы	7			300 kHz		Cu.	Stop 2 /eep 2.39 s (4	25.00 GI 10001 p
		0 kHz		#VBW	300 KHZ		34		
es B\ MODE	N 10	0 kHz	X	Y	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
es B\ N N	N 10	0 kHz f f	2.402 2 GHz 3.053 9 GHz	Y 1.241 dE -55.890 dB	FUNCTION	FUNCTION WIDTH		• •	
es B\ NODE	N 10 TEC 9 1 1	0 kHz	2.402 2 GHz	Y 1.241 dE	FUNCTION Bm Sm Sm	FUNCTION WIDTH		• •	
es BV N N N	N 10 TEC 9 1 1	0 kHz f f	2.402 2 GHz 3.053 9 GHz 5.992 2 GHz	1.241 dE -55.890 dB -56.182 dB	FUNCTION Bm Sm Sm	FUNCTION WIDTH		• •	
es BV N N N N	N 10 TEC 9 1 1	0 kHz f f	2.402 2 GHz 3.053 9 GHz 5.992 2 GHz	1.241 dE -55.890 dB -56.182 dB	FUNCTION Bm Sm Sm	FUNCTION WIDTH		• •	
NODE N N N	N 10 TEC 9 1 1	0 kHz f f	2.402 2 GHz 3.053 9 GHz 5.992 2 GHz	1.241 dE -55.890 dB -56.182 dB	FUNCTION Bm Sm Sm	FUNCTION WIDTH		• •	
es BV N N N N	N 10 TEC 9 1 1	0 kHz f f	2.402 2 GHz 3.053 9 GHz 5.992 2 GHz	1.241 dE -55.890 dB -56.182 dB	FUNCTION Bm Sm Sm	FUNCTION WIDTH		• •	

37 CH

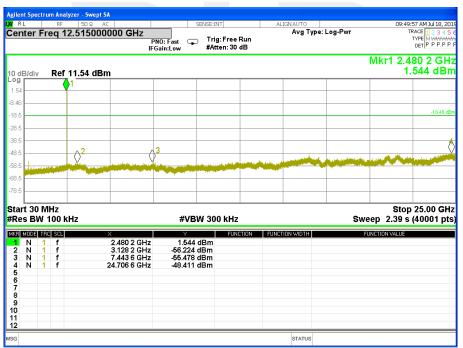
Shenzhen STS Test Services Co., Ltd.



17 CH

RL	Analyzer - Swa	AC		SENSE:INT	AL	IGNAUTO		09:46:	04 AM Jul 18, 2
enter Free	q 12.5150	000000 GHz Ph IFG	IO: Fast 🕞 ain:Low	Trig: Free #Atten: 30		Avg Type:	Log-Pwr	TF	ACE 1 2 3 4 TYPE MWWW DET P P P P
dB/div F	Ref_12.31 c	1Bm						Mkr1 2.4 2.	40 2 GI 312 dB
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art 30 MH								Stop	25.00 G
es BW 10			#VB	W 300 kHz				ep 2.39 s	(40001 p
R MODE TRC	f	× 2.440 2 GHz	¥ 2.312		CTION FUNCT	ION WIDTH	FL	JNCTION VALUE	
	f f	3.305 4 GHz 9.456 8 GHz	-56.562 -56.833						
N 1	f	24.414 5 GHz	-48.601						
i									
·									
)									
2									
						STATUS			

39 CH



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Page 32 of 42 Report No.: STS1907173W03

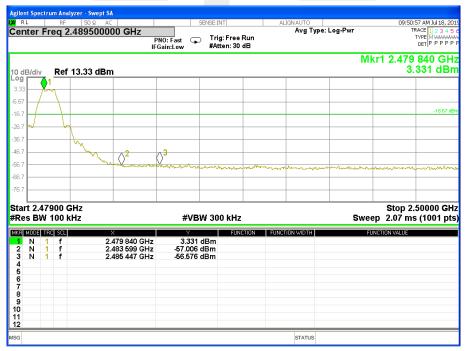


For Band edge

37 CH

RL		RF	50 Ω AC		9	ENSE:INT		ALIGN AUTO		09:	:40:39 AM Jul 18, 2
enter	Fre	eq 2.3	51500000	PN	0: Fast 😱 ain:Low	Trig: Free #Atten: 30	Run dB	Ауд Ту	be: Log-Pwr		TRACE 1 2 3 4 TYPE MWWW DET P P P P
dB/di	v	Ref 12	2.71 dBm						N		02 279 GH 2.714 dB
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29											
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		00 GH 00 kHz			#VB\	N 300 kHz			Sw		2.40300 G ms (1001 p
R MODE	TRC		×		Y		CTION FL	JNCTION WIDTH		FUNCTION VALUE	-
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N	1	f		910 GHz	-50.628						
5											
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3))											
)											

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.

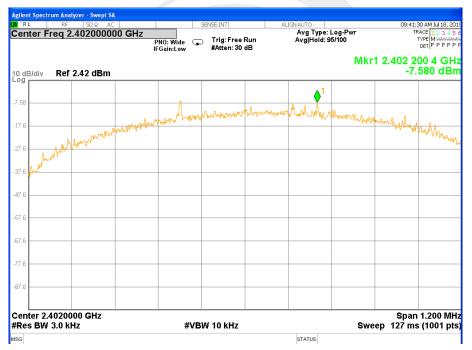


6.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz		TX Mode /CH37, CH17, CH39

Fraguanay	Power Density	Limit (dBm/3KHz)	Result	
Frequency	(dBm/3kHz)			
2402 MHz	-7.58	≤8	PASS	
2440 MHz	-8.25	≤8	PASS	
2480 MHz	-6.435	≤8	PASS	

TX CH37



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TX CH17



TX CH39



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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

EUT	SPECTRUM
	ANALYZER

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:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz		TX Mode /CH37, CH17, CH39

Frequency	6dB Bandwidth	Channel Separation	Result	
	(KHz)	(KHz)		
2402 MHz	708.000	≥500KHz	PASS	
2440 MHz	706.800	≥500KHz	PASS	
2480 MHz	718.400	≥500KHz	PASS	

TX CH 37

gilent Spectrum Analyzer - Occupied B RL RF 50 Ω AC	W	SENSE:INT	ALIGNAUTO	09:38:49 AM Jul 18, 2
enter Freq 2.40200000) GHz	Center Freq: 2.402000	000 GHz	Radio Std: None
	#IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>10/10	Radio Device: BTS
	HI Galiteow			
dB/div Ref 20.00 dBr	n			
.0				
0				
0				
				- manual
0				
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0				
enter 2.402 GHz les BW 100 kHz		#VBW 300 k	Hz	Span 2 M Sweep 1 i
Occupied Bandwidt	h	Total Power	9.89 dBm	
1.	0615 MHz			
Transmit Freq Error	70.311 kHz	OBW Power	99.00 %	
x dB Bandwidth	708.0 kHz	x dB	-6.00 dB	
			STATUS	

П

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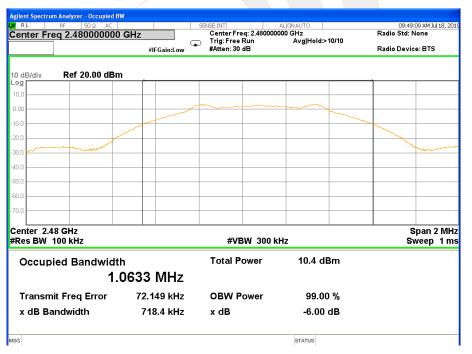
1

TX CH 17

RL	RF 50 Ω AC		SENSE:INT	ALIGNAUTO	09:45:17 AM Jul 18, 20
enter F	req 2.440000000	GHz	Center Freq: 2.440000		Radio Std: None
	-	#IEGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>10/10	Radio Device: BTS
		#IFGain:Low	#Atten: 50 db		Radio Device. BTS
) dB/div	Ref 20.00 dBm	<u>ا</u>			
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	.44 GHz				Span 2 MH
Res BW	100 kHz		#VBW 300 k	Hz	Sweep 1 m
Occu	pied Bandwidtl	h	Total Power	9.80 dBm	
	-	0543 MHz			
	1.4				
Trans	mit Freq Error	72.280 kHz	OBW Power	99.00 %	
	Bandwidth	706.8 kHz	v dP	6 00 dB	
XUBE	วสทนพานเท	700.8 KHZ	x dB	-6.00 dB	

TX CH 39

STATUS



MSG



8. PEAK OUTPUT POWER TEST

8.1 LIMIT

FCC Part 15.247,Subpart C							
Section Test Item		m 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:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz		TX Mode /CH37, CH17, CH39

Test Channe	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH37	2402	4.37	4.30	30
CH17	2440	4.23	4.17	30
CH39	2480	4.10	4.03	30



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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 interface is an externally threaded inner needle antenna connector. 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.



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