



RADIO TESTREPORT

Report No: STS1701084F02

Issued for

ITALCOM GROUP

1728 Coral Way, Coral Gables, Miami, Florida, United States 518048

L A B

Product Name:	3G SMART PHONE
Brand Name:	nyx
Model Name:	SHADE
Series Model:	N/A
FCC ID:	YPVITALCOMSHADE
Test Standard:	FCC Part 15.247

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Report No.: STS1701084F02

TEST RESULT CERTIFICATION

Applicant'sname	ITALCOM GROUP
Address:	1728 Coral Way, Coral Gables, Miami, Florida, United States 518048
Manufacture's Name	Shenzhen qianhai aibo Science and Technology Ltd.
Address:	room 303, Ling Nan building, NO.3081, Qiaoxiang Road, Futian District, Shenzhen city, Guangdong Province, China
Product description	
Product name:	3G SMART PHONE
Brand name:	nyx
Model and/or type reference .:	SHADE
Series Model:	N/A
Standards	FCC Part15.247
Test procedure	ANSI C63.10-2013
under test (EUT) is in compliance sample identified in the report. This report shall not be reproduce	been tested by STS, and the test results show that the equipment with the FCC requirements. And it is applicable only to the tested ed except in full, without the written approval of STS, this document, personal only, and shall be noted in the revision of the document.
Date of Test:	
Date (s) of performance of tests:	16 Jan. 2017~20 Jan. 2017
Date of Issue:	21 Jan. 2017
Test Result:	Pass
Testing Engined	(Leo li)
Authorized Sign	natory: Trong Young

(Bovey Yang)



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Revision History

Rev.	Issue Date	Date Report NO.		Contents
00	21 Jan. 2017	STS1701084F02	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB DA 00-705

FCC Part 15.247,Subpart C					
Standard Section	Lest Item Hiddment Rema				
15.207	Conducted Emission	PASS			
15.247(a)(1)	Hopping Channel Separation	PASS			
15.247(a)(1)&(b)(1)	Output Power	PASS			
15.247(c)	Radiated Spurious Emission	PASS			
15.247(d)	Conducted Spurious & Band Edge Emission	PASS			
15.247(a)(iii)	Number of Hopping Frequency	PASS			
15.247(a)(iii)	Dwell Time	PASS			
15.247(a)(1)	Bandwidth	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 Registration No.: 842334; IC Registration No.: 12108A-1

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated (9KHz-30MHz)	±2.45dB
6	All emissions,radiated (30MHz-200MHz)	±2.83dB
7	All emissions,radiated (200MHz-1000MHz)	±2.94dB
8	All emissions,radiated(>1G)	±3.03dB
9	Temperature	±0.5°C
10	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	3G SMART PHONE
Trade Name	nyx
Model Name	SHADE
Series Model	N/A
Model Difference	N/A
Channel List	Please refer to the Note 2.
Bluetooth	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8-DPSK(3Mbps)
Adapter	Input: AC 100-240V, 150mA, 50-60 Hz Output: DC 5V, 500mA
Battery	Rated Voltage: 3.7V Charge Limit: 4.2 V Capacity: 1600mAh
Hardware version number	NYX_SHADE_001
Software version number	SHADE_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.

		Chanr	nel List		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	nyx	SHADE	PIFA Antenna	N/A	-1	BT Antenna



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate/Modulation	
Mode 1	TX CH00	1Mbps/GFSK	
Mode 2	TX CH39	1Mbps/GFSK	
Mode 3	TX CH78	1Mbps/GFSK	
Mode 4	TX CH00	2 Mbps/π/4-DQPSK	
Mode 5	TX CH39	2 Mbps/π/4-DQPSK	
Mode 6	TX CH78	2 Mbps/π/4-DQPSK	
Mode7	TX CH00	3 Mbps/8-DPSK	
Mode 8	TX CH39	3 Mbps/8-DPSK	
Mode 9	TX CH78	3 Mbps/8-DPSK	

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.

For AC Conducted Emission

Torrio Goriadotoa E	
	Test Case
AC Conducted	Mode 10 : Keeping BT TX
Emission	

2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS.

Test software Version	Test program: Bluetooth				
Frequency	2402 MHz 2441 MHz 2480 MHz				
CSR (Power control software) Parameters(1/2/3Mbps)	Power class: 1 M rate:4:27 2 M rate:11:183 3 Mrate:15:339	Power class: 1 M rate:4:27 2 M rate:11:183 3 Mrate:15:339	Power class: 1 M rate:4:27 2 M rate:11:183 3 Mrate:15:339		



2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Radiated Spurious EmissionTest

E-1 EUT

Conducted Emission Test





2.5 DESCRIPTION OF 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.	Serial No.	Note
E-1	3G SMART PHONE	nyx	SHADE	N/A	EUT
E-2	Adapter	NYX	N/A	N/A	EUT
E-3	Earphone	N/A	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable shielded line (Charging)	NO	100cm	N/A
C-2	unshielded"	NO	110cm	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 <code>"Length_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

tadiation root oqu					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Test Receiver	R&S	ESCI	101427	2016.10.23	2017.10.22
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.24	2017.11.23
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.05	2018.03.04
Horn Antenna	Schwarzbeck	BBHA 9170	9170-0741	2016.03.06	2019.03.05
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.06	2017.06.05
PreAmplifier	Agilent	8449B	60538	2016.10.23	2017.10.22
Loop Antenna	EMCO	6502	9003-2485	2016.03.06	2019.03.05
Preamplifier	Agilent	8449B	60538	2016.10.23	2017.10.22
Low frequency cable	EM	R01	N/A	NCR	NCR
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/9628 7	NCR	NCR
Semi-anechoic chamber	Changling	966	N/A	2016.10.23	2017.10.22

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	102086	2016.10.23	2017.10.22
LISN	R&S	ENV216	101242	2016.10.23	2017.10.22
LISN	EMCO	3810/2NM	000-23625	2016.10.23	2017.10.22
Conduction Cable	EM	C01	N/A	NCR	NCR
Shielding Room	Changling	854	N/A	2016.10.23	2017.10.22

RF Connected Test

Kind of Equipment	of Equipment Manufacturer Type No.		Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Signal Analyzer	Agilent	N9020A	MY49100060	2016.10.23	2017.10.22

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



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.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)			
FREQUENCY (MH2)	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

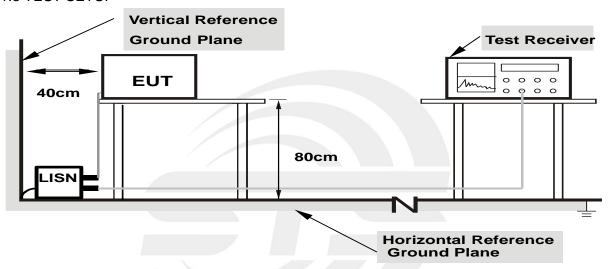
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		



3.1.2 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.

3.1.3 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 from other units and other metal planes

3.1.4 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.



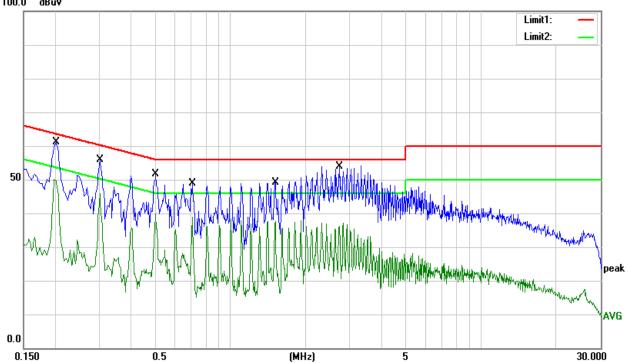
3.1.5 TEST RESULT

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 10

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.2020	49.53	9.23	58.76	63.53	-4.77	QP
0.2020	39.38	9.23	48.61	53.53	-4.92	AVG
0.3020	46.73	9.14	55.87	60.19	-4.32	QP
0.3020	34.48	9.14	43.62	50.19	-6.57	AVG
0.5060	42.37	9.14	51.51	56.00	-4.49	QP
0.5060	30.82	9.14	39.96	46.00	-6.04	AVG
0.7060	39.58	9.24	48.82	56.00	-7.18	QP
0.7060	27.01	9.24	36.25	46.00	-9.75	AVG
1.5140	39.96	9.20	49.16	56.00	-6.84	QP
1.5140	20.94	9.20	30.14	46.00	-15.86	AVG
2.7334	39.27	9.26	48.53	56.00	-7.47	QP
2.7334	26.17	9.26	35.43	46.00	-10.57	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)-Limit



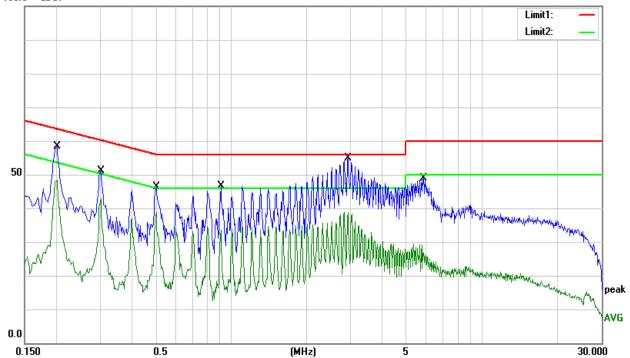
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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 10

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.2020	49.20	9.23	58.43	63.53	-5.10	QP
0.2020	37.42	9.23	46.65	53.53	-6.88	AVG
0.3020	42.08	9.13	51.21	60.19	-8.98	QP
0.3020	25.38	9.13	34.51	50.19	-15.68	AVG
0.5020	37.35	9.14	46.49	56.00	-9.51	QP
0.5020	25.11	9.14	34.25	46.00	-11.75	AVG
0.9100	37.44	9.25	46.69	56.00	-9.31	QP
0.9100	21.51	9.25	30.76	46.00	-15.24	AVG
2.9260	43.39	9.26	52.65	56.00	-3.35	QP
2.9260	30.49	9.26	39.75	46.00	-6.25	AVG
5.8580	39.52	9.28	48.80	60.00	-11.20	QP
5.8580	17.49	9.28	26.77	50.00	-23.23	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)-Limit 100.0 dBuV





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 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 (0.009MHz - 1000MHz)

WITE OF THE BUTTER	12 100011112)		
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 (1GHz-25 GHz)

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		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10 th carrier hamonic(Peak/AV)		
RB / VB (emission in restricted	DIC 4MILLS / 4MILLS AV/ 4 MILLS /40 LLS		
band)	PK=1MHz / 1MHz, AV=1 MHz /10 Hz		

For Band edge

or Barra dage	
Spectrum Parameter	Setting
Detector	Peak
Ctout/Cton Fraguency	Lower Band Edge: 2300 to 2430 MHz
Start/Stop Frequency	Upper Band Edge: 2450 to 2500 MHz
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz / 10 Hz

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Receiver Parameter	Setting
Attenuation	Auto
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

3.2.2 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 test site. 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 QuasiPeak 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

3.2.3 DEVIATION FROM TEST STANDARD

No deviation

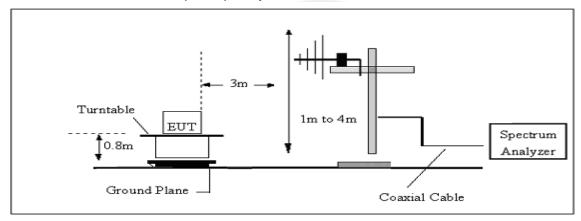


3.2.4 TESTSETUP

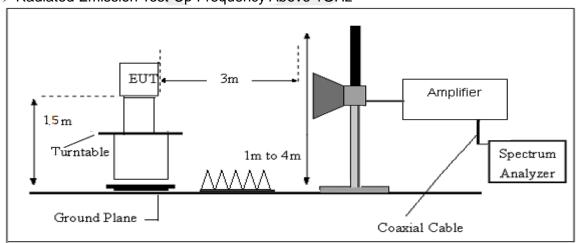
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS

(9KHz-30MHz)

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Mode:	TX Mode
Test Voltage:	DC 3.7V from battery		

Freq.	Reading	Limit	Margin	State	Toot Dooult
(MHz)	(MHz) (dBuV/m)		(dB)	P/F	Test Result
					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.



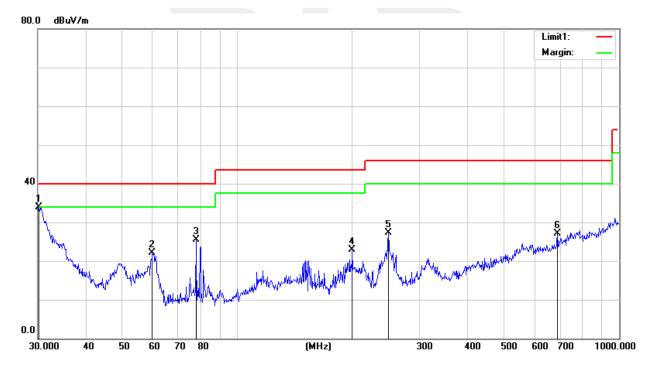
(30MHz-1000MHz)

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	ssure: 1010hPa		Horizontal
Test Voltage:	DC 3.7V from battery	I I DCT IVIDAD'	Mode 1/2/3/4/5/6/7/8/9 (Mode 3-1M worst mode)

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
31.2210	45.24	-11.30	33.94	40.00	-6.06	QP
59.8588	46.50	-24.30	22.20	40.00	-17.80	QP
77.8653	48.52	-23.00	25.52	40.00	-14.48	QP
189.9856	43.04	-20.17	22.87	43.50	-20.63	QP
248.5518	43.83	-16.53	27.50	46.00	-18.70	QP
689.5643	32.74	-5.57	27.17	46.00	-18.83	QP

Remark:

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



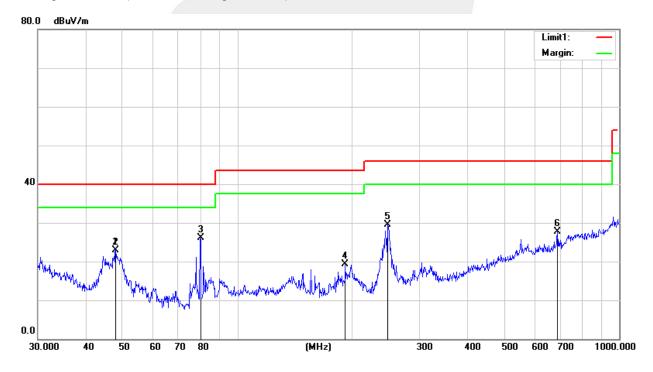


Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	DC 3.7V from battery	LIAST MANAGE.	Mode 1/2/3/4/5/6/7/8/9 (Mode 3-1M worst mode)

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
47.9940	43.38	-20.45	22.93	40.00	-17.07	QP
47.9940	43.38	-20.45	22.93	40.00	-17.07	QP
80.0806	48.79	-22.67	26.12	43.50	-13.88	QP
191.7450	39.47	-20.24	19.23	46.00	-24.27	QP
247.6820	46.21	-16.66	29.55	46.00	-16.45	QP
689.5643	33.32	-5.57	27.75	54.00	-18.25	QP

Remark:

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





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

GFSK Low Channel

	Meter			Antenna	Orrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	Low Channel (2402 MHz)									
3264.85	49.30	44.70	6.70	28.20	-9.80	39.50	74.00	-34.50	PK	Vertical
3264.85	39.17	44.70	6.70	28.20	-9.80	29.37	54.00	-24.63	AV	Vertical
3264.85	48.98	44.70	6.70	28.20	-9.80	39.18	74.00	-34.82	PK	Horizontal
3264.85	38.92	44.70	6.70	28.20	-9.80	29.12	54.00	-24.88	AV	Horizontal
4804.35	59.11	44.20	9.04	31.60	-3.56	55.55	74.00	-18.45	PK	Vertical
4804.35	38.36	44.20	9.04	31.60	-3.56	34.80	54.00	-19.20	AV	Vertical
4804.48	58.72	44.20	9.04	31.60	-3.56	55.16	74.00	-18.84	PK	Horizontal
4804.48	39.51	44.20	9.04	31.60	-3.56	35.95	54.00	-18.05	AV	Horizontal
5359.60	44.99	44.20	9.86	32.00	-2.34	42.65	74.00	-31.35	PK	Vertical
5359.60	37.72	44.20	9.86	32.00	-2.34	35.38	54.00	-18.62	AV	Vertical
5359.79	45.27	44.20	9.86	32.00	-2.34	42.93	74.00	-31.07	PK	Horizontal
5359.79	37.86	44.20	9.86	32.00	-2.34	35.52	54.00	-18.48	AV	Horizontal
7205.79	50.72	43.50	11.40	35.50	3.40	54.12	74.00	-19.88	PK	Vertical
7205.79	33.33	43.50	11.40	35.50	3.40	36.73	54.00	-17.27	AV	Vertical
7205.76	51.23	43.50	11.40	35.50	3.40	54.63	74.00	-19.37	PK	Horizontal
7205.76	33.08	43.50	11.40	35.50	3.40	36.48	54.00	-17.52	AV	Horizontal
11035.83	39.85	43.60	14.30	39.50	10.20	50.05	74.00	-23.95	PK	Vertical
11035.83	31.04	43.60	14.30	39.50	10.20	41.24	54.00	-12.76	AV	Vertical
11035.99	40.38	43.60	14.30	39.50	10.20	50.58	74.00	-23.42	PK	Horizontal
11035.99	30.19	43.60	14.30	39.50	10.20	40.39	54.00	-13.61	AV	Horizontal
13299.36	40.08	42.60	15.90	38.90	12.20	52.28	74.00	-21.72	PK	Vertical
13299.36	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13299.39	41.01	42.60	15.90	38.90	12.20	53.21	74.00	-20.79	PK	Horizontal
13299.39	29.13	42.60	15.90	38.90	12.20	41.33	54.00	-12.67	AV	Horizontal
15999.76	39.87	42.70	18.00	37.10	12.40	52.27	74.00	-21.73	PK	Vertical
15999.76	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
15999.75	40.65	42.70	18.00	37.10	12.40	53.05	74.00	-20.95	PK	Horizontal
15999.75	29.37	42.70	18.00	37.10	12.40	41.77	54.00	-12.23	AV	Horizontal
17997.78	31.10	42.70	19.40	46.50	23.20	54.30	74.00	-19.70	PK	Vertical
17997.78	19.54	42.70	19.40	46.50	23.20	42.74	54.00	-11.26	AV	Vertical
17997.72	30.18	42.70	19.40	46.50	23.20	53.38	74.00	-20.62	PK	Horizontal
17997.72	18.32	42.70	19.40	46.50	23.20	41.52	54.00	-12.48	AV	Horizontal

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Report No.: STS1701084F02

GFSK Mid Channel

Meter Margin						iviid One					
MHz		Meter									
	Frequency		Amplifier		Factor	Factor	Level	Limits	Margin	Detector	
3264.60 49.05 44.70 6.70 28.20 -9.80 39.25 74.00 34.75 PK Vertical 3264.60 38.46 44.70 6.70 28.20 -9.80 28.66 54.00 -25.34 AV Vertical 3264.79 38.75 44.70 6.70 28.20 -9.80 28.95 54.00 -25.05 AV Horizontal 4882.35 59.24 44.20 9.04 31.60 -3.56 55.68 74.00 -18.96 AV Vertical 4882.35 59.24 44.20 9.04 31.60 -3.56 35.60 54.00 -18.96 AV Vertical 4882.43 39.03 44.20 9.04 31.60 -3.56 35.77 54.00 -18.25 PK Horizontal 5359.82 37.30 44.20 9.86 32.00 -2.34 43.64 74.00 -30.36 PK Horizontal 5359.85 45.98 44.20 9.86 32.00 </td <td>(MHz)</td> <td>(dBµV)</td> <td>(dB)</td> <td>(dB)</td> <td></td> <td></td> <td>, , ,</td> <td>(dBµV/m)</td> <td>(dB)</td> <td>Туре</td> <td>Comment</td>	(MHz)	(dBµV)	(dB)	(dB)			, , ,	(dBµV/m)	(dB)	Туре	Comment
3264.60 38.46			1	1	Low Cl	hannel (2441 N	ИHz) Г	T			T
3264.79 49.16 44.70 6.70 28.20 -9.80 39.36 74.00 -34.64 PK Horizontal Age 3264.79 38.75 44.70 6.70 28.20 -9.80 28.95 54.00 -25.05 AV Horizontal Horizontal 4882.35 59.24 44.20 9.04 31.60 -3.56 55.68 74.00 -18.96 AV Vertical 4882.43 38.60 44.20 9.04 31.60 -3.56 55.75 74.00 -18.96 AV Vertical 4882.43 39.03 44.20 9.04 31.60 -3.56 35.47 54.00 -18.53 AV Horizontal 5359.82 45.61 44.20 9.86 32.00 -2.34 43.49 54.00 -19.04 AV Vertical 5359.85 38.14 44.20 9.86 32.00 -2.34 35.80 54.00 -19.04 AV Vertical 7313.97 51.48 43.50 11.40	3264.60	49.05	44.70	6.70	28.20	-9.80	39.25	74.00	-34.75	PK	Vertical
3264.79 38.75 44.70 6.70 28.20 -9.80 28.95 54.00 -25.05 AV Horizontal 4882.35 59.24 44.20 9.04 31.60 -3.56 55.68 74.00 -18.32 PK Vertical Vertical 4882.33 38.60 44.20 9.04 31.60 -3.56 35.04 54.00 -18.96 AV Vertical 4882.43 59.31 44.20 9.04 31.60 -3.56 55.75 74.00 -18.25 PK Horizontal 5359.82 45.61 44.20 9.86 32.00 -2.34 43.27 74.00 -30.73 PK Vertical 5359.85 45.98 44.20 9.86 32.00 -2.34 43.64 74.00 -30.36 PK Horizontal 5359.85 38.14 44.20 9.86 32.00 -2.34 35.80 54.00 -18.20 AV Horizontal 7313.97 51.48 43.50 11.40 35.50 3.40 <td>3264.60</td> <td>38.46</td> <td>44.70</td> <td>6.70</td> <td>28.20</td> <td>-9.80</td> <td>28.66</td> <td>54.00</td> <td>-25.34</td> <td>AV</td> <td>Vertical</td>	3264.60	38.46	44.70	6.70	28.20	-9.80	28.66	54.00	-25.34	AV	Vertical
4882.35 59.24 44.20 9.04 31.60 -3.56 55.68 74.00 -18.32 PK Vertical 4882.35 38.60 44.20 9.04 31.60 -3.56 35.04 54.00 -18.96 AV Vertical 4882.43 59.31 44.20 9.04 31.60 -3.56 55.75 74.00 -18.53 AV Horizontal 6369.82 45.61 44.20 9.86 32.00 -2.34 43.27 74.00 -30.73 PK Vertical 5369.82 37.30 44.20 9.86 32.00 -2.34 43.64 74.00 -30.36 PK Horizontal 5359.85 45.98 44.20 9.86 32.00 -2.34 43.64 74.00 -18.20 AV Horizontal 7313.97 51.48 43.50 11.40 35.50 3.40 54.88 74.00 -19.77 PK Horizontal 7313.92 50.83 43.50 11.40 35.	3264.79	49.16	44.70	6.70	28.20	-9.80	39.36	74.00	-34.64	PK	Horizontal
4882.35 38.60 44.20 9.04 31.60 -3.56 35.04 54.00 -18.96 AV Vertical 4882.43 59.31 44.20 9.04 31.60 -3.56 55.75 74.00 -18.25 PK Horizontal 4882.43 39.03 44.20 9.86 32.00 -2.34 43.27 74.00 -30.73 PK Vertical 5359.82 37.30 44.20 9.86 32.00 -2.34 43.64 74.00 -30.36 PK Vertical 6359.85 45.98 44.20 9.86 32.00 -2.34 43.64 74.00 -30.36 PK Horizontal 5359.85 38.14 44.20 9.86 32.00 -2.34 43.60 74.00 -30.36 PK Horizontal 7313.97 51.48 43.50 11.40 35.50 3.40 36.77 54.00 -17.23 AV Vertical 7313.92 30.83 43.50 11.40 35.50	3264.79	38.75	44.70	6.70	28.20	-9.80	28.95	54.00	-25.05	AV	Horizontal
4882.43 59.31 44.20 9.04 31.60 -3.56 55.75 74.00 -18.25 PK Horizontal 4882.43 39.03 44.20 9.04 31.60 -3.56 35.47 54.00 -18.53 AV Horizontal 5359.82 45.61 44.20 9.86 32.00 -2.34 43.27 74.00 -30.73 PK Vertical 5359.85 45.98 44.20 9.86 32.00 -2.34 43.64 74.00 -30.36 PK Horizontal 5359.85 38.14 44.20 9.86 32.00 -2.34 35.60 54.00 -18.20 AV Horizontal 7313.97 51.48 43.50 11.40 35.50 3.40 54.88 74.00 -19.12 PK Vertical 7313.92 50.83 43.50 11.40 35.50 3.40 35.77 54.00 -19.77 PK Horizontal 79607.79 40.04 43.60 14.30	4882.35	59.24	44.20	9.04	31.60	-3.56	55.68	74.00	-18.32	PK	Vertical
4882.43 39.03 44.20 9.04 31.60 -3.56 35.47 54.00 -18.53 AV Horizontal 5359.82 45.61 44.20 9.86 32.00 -2.34 43.27 74.00 -30.73 PK Vertical 5359.85 45.98 44.20 9.86 32.00 -2.34 43.64 74.00 -30.36 PK Horizontal 5359.85 38.14 44.20 9.86 32.00 -2.34 35.80 54.00 -19.04 AV Vertical 7313.97 51.48 43.50 11.40 35.50 3.40 54.88 74.00 -19.12 PK Vertical 7313.92 50.83 43.50 11.40 35.50 3.40 54.23 74.00 -19.77 PK Horizontal 7313.92 32.57 43.50 11.40 35.50 3.40 54.23 74.00 -19.77 PK Horizontal 79607.79 40.04 43.60 14.30 39	4882.35	38.60	44.20	9.04	31.60	-3.56	35.04	54.00	-18.96	AV	Vertical
5359.82 45.61 44.20 9.86 32.00 -2.34 43.27 74.00 -30.73 PK Vertical 5359.82 37.30 44.20 9.86 32.00 -2.34 34.96 54.00 -19.04 AV Vertical 5359.85 38.14 44.20 9.86 32.00 -2.34 35.80 54.00 -18.20 AV Horizontal 7313.97 51.48 43.50 11.40 35.50 3.40 54.88 74.00 -19.12 PK Vertical 7313.97 33.37 43.50 11.40 35.50 3.40 36.77 54.00 -17.23 AV Vertical 7313.92 50.83 43.50 11.40 35.50 3.40 54.23 74.00 -19.77 PK Horizontal 7313.92 32.57 43.50 11.40 35.50 3.40 35.97 54.00 -18.03 AV Horizontal 9607.79 40.04 43.60 14.30 39.50	4882.43	59.31	44.20	9.04	31.60	-3.56	55.75	74.00	-18.25	PK	Horizontal
5359.82 37.30 44.20 9.86 32.00 -2.34 34.96 54.00 -19.04 AV Vertical 5359.85 45.98 44.20 9.86 32.00 -2.34 43.64 74.00 -30.36 PK Horizontal 5359.85 38.14 44.20 9.86 32.00 -2.34 35.80 54.00 -18.20 AV Horizontal 7313.97 51.48 43.50 11.40 35.50 3.40 54.88 74.00 -19.12 PK Vertical 7313.97 33.37 43.50 11.40 35.50 3.40 36.77 54.00 -19.77 PK Horizontal 7313.92 30.83 43.50 11.40 35.50 3.40 35.97 54.00 -18.03 AV Horizontal 9607.79 40.04 43.60 14.30 39.50 10.20 50.24 74.00 -23.76 PK Vertical 9608.05 30.80 43.60 14.30 39	4882.43	39.03	44.20	9.04	31.60	-3.56	35.47	54.00	-18.53	AV	Horizontal
5359.85 45.98 44.20 9.86 32.00 -2.34 43.64 74.00 -30.36 PK Horizontal 5359.85 38.14 44.20 9.86 32.00 -2.34 35.80 54.00 -18.20 AV Horizontal 7313.97 51.48 43.50 11.40 35.50 3.40 54.88 74.00 -19.12 PK Vertical 7313.97 33.37 43.50 11.40 35.50 3.40 54.23 74.00 -19.77 PK Horizontal 7313.92 50.83 43.50 11.40 35.50 3.40 54.23 74.00 -19.77 PK Horizontal 9607.79 40.04 43.60 14.30 39.50 10.20 50.24 74.00 -23.76 PK Vertical 9607.79 30.30 43.60 14.30 39.50 10.20 40.50 54.00 -13.50 AV Vertical 9608.05 40.59 43.60 14.30 3	5359.82	45.61	44.20	9.86	32.00	-2.34	43.27	74.00	-30.73	PK	Vertical
5359.85 38.14 44.20 9.86 32.00 -2.34 35.80 54.00 -18.20 AV Horizontal 7313.97 51.48 43.50 11.40 35.50 3.40 54.88 74.00 -19.12 PK Vertical 7313.97 33.37 43.50 11.40 35.50 3.40 36.77 54.00 -17.23 AV Vertical 7313.92 50.83 43.50 11.40 35.50 3.40 35.97 54.00 -19.77 PK Horizontal 7313.92 32.57 43.50 11.40 35.50 3.40 35.97 54.00 -18.03 AV Horizontal 9607.79 40.04 43.60 14.30 39.50 10.20 50.24 74.00 -23.76 PK Vertical 9607.79 30.30 43.60 14.30 39.50 10.20 50.79 74.00 -23.21 PK Horizontal 19608.05 40.59 43.60 14.30	5359.82	37.30	44.20	9.86	32.00	-2.34	34.96	54.00	-19.04	AV	Vertical
7313.97 51.48 43.50 11.40 35.50 3.40 54.88 74.00 -19.12 PK Vertical 7313.97 33.37 43.50 11.40 35.50 3.40 36.77 54.00 -17.23 AV Vertical 7313.92 50.83 43.50 11.40 35.50 3.40 35.97 54.00 -19.77 PK Horizontal 7313.92 32.57 43.50 11.40 35.50 3.40 35.97 54.00 -18.03 AV Horizontal 9607.79 40.04 43.60 14.30 39.50 10.20 50.24 74.00 -23.76 PK Vertical 9607.79 30.30 43.60 14.30 39.50 10.20 40.50 54.00 -13.50 AV Vertical 9608.05 40.59 43.60 14.30 39.50 10.20 41.00 54.00 -13.00 AV Horizontal 13299.17 39.99 42.60 15.90 3	5359.85	45.98	44.20	9.86	32.00	-2.34	43.64	74.00	-30.36	PK	Horizontal
7313.97 33.37 43.50 11.40 35.50 3.40 36.77 54.00 -17.23 AV Vertical 7313.92 50.83 43.50 11.40 35.50 3.40 54.23 74.00 -19.77 PK Horizontal 7313.92 32.57 43.50 11.40 35.50 3.40 35.97 54.00 -18.03 AV Horizontal 9607.79 40.04 43.60 14.30 39.50 10.20 50.24 74.00 -23.76 PK Vertical 9607.79 30.30 43.60 14.30 39.50 10.20 50.79 74.00 -23.21 PK Horizontal 9608.05 30.80 43.60 14.30 39.50 10.20 50.79 74.00 -23.21 PK Horizontal 13299.17 39.99 42.60 15.90 38.90 12.20 52.19 74.00 -21.81 PK Vertical 13299.16 29.96 42.60 15.90 <	5359.85	38.14	44.20	9.86	32.00	-2.34	35.80	54.00	-18.20	AV	Horizontal
7313.92 50.83 43.50 11.40 35.50 3.40 54.23 74.00 -19.77 PK Horizontal 7313.92 32.57 43.50 11.40 35.50 3.40 35.97 54.00 -18.03 AV Horizontal 9607.79 40.04 43.60 14.30 39.50 10.20 50.24 74.00 -23.76 PK Vertical 9607.79 30.30 43.60 14.30 39.50 10.20 50.79 74.00 -23.21 PK Horizontal 9608.05 40.59 43.60 14.30 39.50 10.20 50.79 74.00 -23.21 PK Horizontal 13299.17 39.99 42.60 15.90 38.90 12.20 52.19 74.00 -21.81 PK Vertical 13299.17 28.54 42.60 15.90 38.90 12.20 40.74 54.00 -13.26 AV Vertical 13299.26 39.96 42.60 15.90	7313.97	51.48	43.50	11.40	35.50	3.40	54.88	74.00	-19.12	PK	Vertical
7313.92 32.57 43.50 11.40 35.50 3.40 35.97 54.00 -18.03 AV Horizontal 9607.79 40.04 43.60 14.30 39.50 10.20 50.24 74.00 -23.76 PK Vertical 9607.79 30.30 43.60 14.30 39.50 10.20 40.50 54.00 -13.50 AV Vertical 9608.05 40.59 43.60 14.30 39.50 10.20 50.79 74.00 -23.21 PK Horizontal 9608.05 30.80 43.60 14.30 39.50 10.20 41.00 54.00 -13.00 AV Horizontal 13299.17 39.99 42.60 15.90 38.90 12.20 52.19 74.00 -21.81 PK Vertical 13299.26 39.90 42.60 15.90 38.90 12.20 52.10 74.00 -21.90 PK Horizontal 15999.73 39.70 42.70 18.00	7313.97	33.37	43.50	11.40	35.50	3.40	36.77	54.00	-17.23	AV	Vertical
9607.79	7313.92	50.83	43.50	11.40	35.50	3.40	54.23	74.00	-19.77	PK	Horizontal
9607.79 30.30 43.60 14.30 39.50 10.20 40.50 54.00 -13.50 AV Vertical 9608.05 40.59 43.60 14.30 39.50 10.20 50.79 74.00 -23.21 PK Horizontal 9608.05 30.80 43.60 14.30 39.50 10.20 41.00 54.00 -13.00 AV Horizontal 13299.17 39.99 42.60 15.90 38.90 12.20 52.19 74.00 -21.81 PK Vertical 13299.26 39.90 42.60 15.90 38.90 12.20 40.74 54.00 -13.26 AV Vertical 13299.26 29.96 42.60 15.90 38.90 12.20 52.10 74.00 -21.90 PK Horizontal 13299.73 39.70 42.70 18.00 37.10 12.40 52.10 74.00 -21.90 PK Vertical 15999.73 28.64 42.70 18.00 37.10 12.40 52.10 74.00 -21.90 PK Horizontal 15999.76 40.06 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.76 29.64 42.70 18.00 37.10 12.40 52.46 74.00 -21.54 PK Horizontal 15999.76 29.64 42.70 18.00 37.10 12.40 42.04 54.00 -11.96 AV Horizontal 17997.75 31.28 42.70 19.40 46.50 23.20 54.48 74.00 -19.52 PK Vertical 17997.75 19.62 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal 17997.75 19.62 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal	7313.92	32.57	43.50	11.40	35.50	3.40	35.97	54.00	-18.03	AV	Horizontal
9608.05	9607.79	40.04	43.60	14.30	39.50	10.20	50.24	74.00	-23.76	PK	Vertical
9608.05 30.80 43.60 14.30 39.50 10.20 41.00 54.00 -13.00 AV Horizontal 13299.17 39.99 42.60 15.90 38.90 12.20 52.19 74.00 -21.81 PK Vertical 13299.17 28.54 42.60 15.90 38.90 12.20 40.74 54.00 -13.26 AV Vertical 13299.26 39.90 42.60 15.90 38.90 12.20 52.10 74.00 -21.90 PK Horizontal 13299.26 29.96 42.60 15.90 38.90 12.20 42.16 54.00 -11.84 AV Horizontal 15999.73 39.70 42.70 18.00 37.10 12.40 52.10 74.00 -21.90 PK Vertical 15999.73 28.64 42.70 18.00 37.10 12.40 52.10 74.00 -21.90 PK Vertical 15999.76 40.06 42.70 18.00 37.10 12.40 52.46 74.00 -21.54 PK Horizontal 15999.76 29.64 42.70 18.00 37.10 12.40 42.04 54.00 -11.96 AV Horizontal 17997.75 31.28 42.70 19.40 46.50 23.20 54.48 74.00 -19.52 PK Vertical 17997.75 19.62 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal 17997.71 29.81 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal	9607.79	30.30	43.60	14.30	39.50	10.20	40.50	54.00	-13.50	AV	Vertical
13299.17 39.99 42.60 15.90 38.90 12.20 52.19 74.00 -21.81 PK Vertical 13299.17 28.54 42.60 15.90 38.90 12.20 40.74 54.00 -13.26 AV Vertical 13299.26 39.90 42.60 15.90 38.90 12.20 52.10 74.00 -21.90 PK Horizontal 13299.26 29.96 42.60 15.90 38.90 12.20 42.16 54.00 -11.84 AV Horizontal 15999.73 39.70 42.70 18.00 37.10 12.40 52.10 74.00 -21.90 PK Vertical 15999.73 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.76 40.06 42.70 18.00 37.10 12.40 52.46 74.00 -21.54 PK Horizontal 17997.75 31.28 42.70 18.00	9608.05	40.59	43.60	14.30	39.50	10.20	50.79	74.00	-23.21	PK	Horizontal
13299.17 28.54 42.60 15.90 38.90 12.20 40.74 54.00 -13.26 AV Vertical 13299.26 39.90 42.60 15.90 38.90 12.20 52.10 74.00 -21.90 PK Horizontal 13299.26 29.96 42.60 15.90 38.90 12.20 42.16 54.00 -11.84 AV Horizontal 15999.73 39.70 42.70 18.00 37.10 12.40 52.10 74.00 -21.90 PK Vertical 15999.73 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.76 40.06 42.70 18.00 37.10 12.40 52.46 74.00 -21.54 PK Horizontal 17997.75 31.28 42.70 18.00 37.10 12.40 42.04 54.00 -11.96 AV Horizontal 17997.75 31.28 42.70 19.40	9608.05	30.80	43.60	14.30	39.50	10.20	41.00	54.00	-13.00	AV	Horizontal
13299.26 39.90 42.60 15.90 38.90 12.20 52.10 74.00 -21.90 PK Horizontal 13299.26 29.96 42.60 15.90 38.90 12.20 42.16 54.00 -11.84 AV Horizontal 15999.73 39.70 42.70 18.00 37.10 12.40 52.10 74.00 -21.90 PK Vertical 15999.73 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.76 40.06 42.70 18.00 37.10 12.40 52.46 74.00 -21.54 PK Horizontal 15999.76 29.64 42.70 18.00 37.10 12.40 42.04 54.00 -11.96 AV Horizontal 17997.75 31.28 42.70 19.40 46.50 23.20 54.48 74.00 -19.52 PK Vertical 17997.71 29.81 42.70 19.40	13299.17	39.99	42.60	15.90	38.90	12.20	52.19	74.00	-21.81	PK	Vertical
13299.26 29.96 42.60 15.90 38.90 12.20 42.16 54.00 -11.84 AV Horizontal 15999.73 39.70 42.70 18.00 37.10 12.40 52.10 74.00 -21.90 PK Vertical 15999.73 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.76 40.06 42.70 18.00 37.10 12.40 52.46 74.00 -21.54 PK Horizontal 15999.76 29.64 42.70 18.00 37.10 12.40 42.04 54.00 -11.96 AV Horizontal 17997.75 31.28 42.70 19.40 46.50 23.20 54.48 74.00 -19.52 PK Vertical 17997.75 19.62 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal 17997.71 29.81 42.70 19.40	13299.17	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
15999.73 39.70 42.70 18.00 37.10 12.40 52.10 74.00 -21.90 PK Vertical 15999.73 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.76 40.06 42.70 18.00 37.10 12.40 52.46 74.00 -21.54 PK Horizontal 15999.76 29.64 42.70 18.00 37.10 12.40 42.04 54.00 -11.96 AV Horizontal 17997.75 31.28 42.70 19.40 46.50 23.20 54.48 74.00 -19.52 PK Vertical 17997.75 19.62 42.70 19.40 46.50 23.20 42.82 54.00 -11.18 AV Vertical 17997.71 29.81 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal	13299.26	39.90	42.60	15.90	38.90	12.20	52.10	74.00	-21.90	PK	Horizontal
15999.73 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.76 40.06 42.70 18.00 37.10 12.40 52.46 74.00 -21.54 PK Horizontal 15999.76 29.64 42.70 18.00 37.10 12.40 42.04 54.00 -11.96 AV Horizontal 17997.75 31.28 42.70 19.40 46.50 23.20 54.48 74.00 -19.52 PK Vertical 17997.75 19.62 42.70 19.40 46.50 23.20 42.82 54.00 -11.18 AV Vertical 17997.71 29.81 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal	13299.26	29.96	42.60	15.90	38.90	12.20	42.16	54.00	-11.84	AV	Horizontal
15999.76 40.06 42.70 18.00 37.10 12.40 52.46 74.00 -21.54 PK Horizontal 15999.76 29.64 42.70 18.00 37.10 12.40 42.04 54.00 -11.96 AV Horizontal 17997.75 31.28 42.70 19.40 46.50 23.20 54.48 74.00 -19.52 PK Vertical 17997.75 19.62 42.70 19.40 46.50 23.20 42.82 54.00 -11.18 AV Vertical 17997.71 29.81 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal	15999.73	39.70	42.70	18.00	37.10	12.40	52.10	74.00	-21.90	PK	Vertical
15999.76 29.64 42.70 18.00 37.10 12.40 42.04 54.00 -11.96 AV Horizontal 17997.75 31.28 42.70 19.40 46.50 23.20 54.48 74.00 -19.52 PK Vertical 17997.75 19.62 42.70 19.40 46.50 23.20 42.82 54.00 -11.18 AV Vertical 17997.71 29.81 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal	15999.73	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
17997.75 31.28 42.70 19.40 46.50 23.20 54.48 74.00 -19.52 PK Vertical 17997.75 19.62 42.70 19.40 46.50 23.20 42.82 54.00 -11.18 AV Vertical 17997.71 29.81 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal	15999.76	40.06	42.70	18.00	37.10	12.40	52.46	74.00	-21.54	PK	Horizontal
17997.75 19.62 42.70 19.40 46.50 23.20 42.82 54.00 -11.18 AV Vertical 17997.71 29.81 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal	15999.76	29.64	42.70	18.00	37.10	12.40	42.04	54.00	-11.96	AV	Horizontal
17997.71 29.81 42.70 19.40 46.50 23.20 53.01 74.00 -20.99 PK Horizontal	17997.75	31.28	42.70	19.40	46.50	23.20	54.48	74.00	-19.52	PK	Vertical
	17997.75	19.62	42.70	19.40	46.50	23.20	42.82	54.00	-11.18	AV	Vertical
17997.71 18.27 42.70 19.40 46.50 23.20 41.47 54.00 -12.53 AV Horizontal	17997.71	29.81	42.70	19.40	46.50	23.20	53.01	74.00	-20.99	PK	Horizontal
	17997.71	18.27	42.70	19.40	46.50	23.20	41.47	54.00	-12.53	AV	Horizontal



GFSK High Channel

	Meter			Antenna	Orrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	Low Channel (2480 MHz)									
3264.76	48.21	44.70	6.70	28.20	-9.80	38.41	74.00	-35.59	PK	Vertical
3264.76	39.08	44.70	6.70	28.20	-9.80	29.28	54.00	-24.72	AV	Vertical
3264.56	48.59	44.70	6.70	28.20	-9.80	38.79	74.00	-35.21	PK	Horizontal
3264.56	37.83	44.70	6.70	28.20	-9.80	28.03	54.00	-25.97	AV	Horizontal
4960.46	58.40	44.20	9.04	31.60	-3.56	54.84	74.00	-19.16	PK	Vertical
4960.46	38.90	44.20	9.04	31.60	-3.56	35.34	54.00	-18.66	AV	Vertical
4960.46	58.54	44.20	9.04	31.60	-3.56	54.98	74.00	-19.02	PK	Horizontal
4960.46	38.11	44.20	9.04	31.60	-3.56	34.55	54.00	-19.45	AV	Horizontal
5359.81	46.07	44.20	9.86	32.00	-2.34	43.73	74.00	-30.27	PK	Vertical
5359.81	37.79	44.20	9.86	32.00	-2.34	35.45	54.00	-18.55	AV	Vertical
5359.75	45.58	44.20	9.86	32.00	-2.34	43.24	74.00	-30.76	PK	Horizontal
5359.75	37.71	44.20	9.86	32.00	-2.34	35.37	54.00	-18.63	AV	Horizontal
7439.91	50.69	43.50	11.40	35.50	3.40	54.09	74.00	-19.91	PK	Vertical
7439.91	32.72	43.50	11.40	35.50	3.40	36.12	54.00	-17.88	AV	Vertical
7439.77	50.57	43.50	11.40	35.50	3.40	53.97	74.00	-20.03	PK	Horizontal
7439.77	33.67	43.50	11.40	35.50	3.40	37.07	54.00	-16.93	AV	Horizontal
9919.74	40.68	43.60	14.30	39.50	10.20	50.88	74.00	-23.12	PK	Vertical
9919.74	31.17	43.60	14.30	39.50	10.20	41.37	54.00	-12.63	AV	Vertical
9920.09	40.32	43.60	14.30	39.50	10.20	50.52	74.00	-23.48	PK	Horizontal
9920.09	30.30	43.60	14.30	39.50	10.20	40.50	54.00	-13.50	AV	Horizontal
13299.15	39.67	42.70	18.00	37.10	12.40	52.07	74.00	-21.93	PK	Vertical
13299.15	28.54	42.70	18.00	37.10	12.40	40.94	54.00	-13.06	AV	Vertical
13299.33	40.72	42.70	18.00	37.10	12.40	53.12	74.00	-20.88	PK	Horizontal
13299.33	29.13	42.70	18.00	37.10	12.40	41.53	54.00	-12.47	AV	Horizontal
17997.84	30.93	42.70	19.40	46.50	23.20	54.13	74.00	-19.87	PK	Vertical
17997.84	19.32	42.70	19.40	46.50	23.20	42.52	54.00	-11.48	AV	Vertical
17997.65	30.92	42.70	19.40	46.50	23.20	54.12	74.00	-19.88	PK	Horizontal
17997.65	18.29	42.70	19.40	46.50	23.20	41.49	54.00	-12.51	AV	Horizontal

Note:

- 1) Scan with GFSK, $\pi/4$ -DQPSK,8DPSK,the worst case is GFSK Mode
- 2) Factor = Antenna Factor + Cable Loss Pre-amplifier.

Emission Level = Meter Reading + Factor



Band edge Requirements

	Meter			Antenna	Orrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
					GFSK					
2400.00	67.32	43.80	4.91	25.90	-12.99	54.33	74	-19.67	PK	Vertical
2400.00	53.76	43.80	4.91	25.90	-12.99	40.77	54	-13.23	AV	Vertical
2400.00	68.70	43.80	4.91	25.90	-12.99	55.71	74	-18.29	PK	Horizontal
2400.00	52.32	43.80	4.91	25.90	-12.99	39.33	54	-14.67	AV	Horizontal
2483.50	70.34	43.80	5.12	25.90	-12.78	57.56	74	-16.44	PK	Vertical
2483.50	53.01	43.80	5.12	25.90	-12.78	40.23	54	-13.77	AV	Vertical
2483.50	69.59	43.80	5.12	25.90	-12.78	56.81	74	-17.19	PK	Horizontal
2483.50	53.22	43.80	5.12	25.90	-12.78	40.44	54	-13.56	AV	Horizontal
			/		π/4-DQPSK					
2400.00	67.66	43.80	4.91	25.90	-12.99	54.67	74	-19.33	PK	Vertical
2400.00	53.96	43.80	4.91	25.90	-12.99	40.97	54	-13.03	AV	Vertical
2400.00	68.58	43.80	4.91	25.90	-12.99	55.59	74	-18.41	PK	Horizontal
2400.00	52.94	43.80	4.91	25.90	-12.99	39.95	54	-14.05	AV	Horizontal
2483.50	69.62	43.80	5.12	25.90	-12.78	56.84	74	-17.16	PK	Vertical
2483.50	52.26	43.80	5.12	25.90	-12.78	39.48	54	-14.52	AV	Vertical
2483.50	70.40	43.80	5.12	25.90	-12.78	57.62	74	-16.38	PK	Horizontal
2483.50	52.17	43.80	5.12	25.90	-12.78	39.39	54	-14.61	AV	Horizontal
					8DPSK					
2400.00	68.35	43.80	4.91	25.90	-12.99	55.36	74	-18.64	PK	Vertical
2400.00	53.12	43.80	4.91	25.90	-12.99	40.13	54	-13.87	AV	Vertical
2400.00	68.68	43.80	4.91	25.90	-12.99	55.69	74	-18.31	PK	Horizontal
2400.00	53.32	43.80	4.91	25.90	-12.99	40.33	54	-13.67	AV	Horizontal
2483.50	69.17	43.80	5.12	25.90	-12.78	56.39	74	-17.61	PK	Vertical
2483.50	53.37	43.80	5.12	25.90	-12.78	40.59	54	-13.41	AV	Vertical
2483.50	69.72	43.80	5.12	25.90	-12.78	56.94	74	-17.06	PK	Horizontal
2483.50	52.69	43.80	5.12	25.90	-12.78	39.91	54	-14.09	AV	Horizontal

Low measurement frequencies is range from 2310 to 2400 MHz, high measurement frequencies is range from 2483.5 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2310-2400 MHz and 2483.5-2500 MHz.



Hopping Band edge

2400.00		Meter			Antenna	Orrected	Emission				
2400.00	Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
2400.00	(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
2400.00 53.18 43.80 4.91 25.90 -12.99 40.19 54 -13.81 AV Vertical 2400.00 68.78 43.80 4.91 25.90 -12.99 55.79 74 -18.21 PK Horizontal 2400.00 53.26 43.80 4.91 25.90 -12.99 40.27 54 -13.73 AV Horizontal 2483.50 70.47 43.80 5.12 25.90 -12.78 57.69 74 -16.31 PK Vertical 2483.50 52.79 43.80 5.12 25.90 -12.78 57.20 74 -16.80 PK Horizontal 2483.50 53.06 43.80 5.12 25.90 -12.78 57.20 74 -16.80 PK Horizontal 2400.00 68.63 43.80 4.91 25.90 -12.99 55.64 74 -18.36 PK Vertical 2400.00 53.38 43.80 4.91 25.90						GFSK					
2400.00	2400.00	67.62	43.80	4.91	25.90	-12.99	54.63	74	-19.37	PK	Vertical
2400.00 53.26 43.80 4.91 25.90 -12.99 40.27 54 -13.73 AV Horizontal 2483.50 70.47 43.80 5.12 25.90 -12.78 57.69 74 -16.31 PK Vertical Vertical 2483.50 52.79 43.80 5.12 25.90 -12.78 40.01 54 -13.99 AV Vertical Vertical 2483.50 69.98 43.80 5.12 25.90 -12.78 57.20 74 -16.80 PK Horizontal 4483.50 53.06 43.80 5.12 25.90 -12.78 40.28 54 -13.72 AV Horizontal 4787 40.00 54 -13.61 AV	2400.00	53.18	43.80	4.91	25.90	-12.99	40.19	54	-13.81	AV	Vertical
2483.50 70.47 43.80 5.12 25.90 -12.78 57.69 74 -16.31 PK Vertical 2483.50 52.79 43.80 5.12 25.90 -12.78 40.01 54 -13.99 AV Vertical 2483.50 69.98 43.80 5.12 25.90 -12.78 57.20 74 -16.80 PK Horizontal 2483.50 53.06 43.80 5.12 25.90 -12.78 40.28 54 -13.72 AV Horizontal 2483.50 53.06 43.80 4.91 25.90 -12.99 55.64 74 -18.36 PK Vertical 2400.00 68.66 43.80 4.91 25.90 -12.99 55.57 74 -18.43 PK Horizontal 2400.00 53.12 43.80 4.91 25.90 -12.99 55.57 74 -18.43 PK Horizontal 2400.00 53.12 43.80 4.91 25.90 -12.99 40.13 54 -13.61 AV Vertical 2400.00 53.12 43.80 5.12 25.90 -12.99 40.13 54 -13.87 AV Horizontal 2483.50 69.17 43.80 5.12 25.90 -12.78 56.39 74 -17.61 PK Vertical 2483.50 53.42 43.80 5.12 25.90 -12.78 56.39 74 -17.61 PK Vertical 2483.50 52.78 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 52.78 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 53.99 43.80 5.12 25.90 -12.78 40.00 54 -14.00 AV Horizontal 2400.00 68.45 43.80 4.91 25.90 -12.99 55.46 74 -16.64 PK Horizontal 2400.00 69.61 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2400.00 69.61 43.80 4.91 25.90 -12.99 55.46 74 -16.64 PK Horizontal 2400.00 69.61 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 69.61 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 69.61 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 5.12 25.90 -12.99 56.62 74 -17.54 PK Vertical 2400.00 53.14 43.80 5.12 25.90 -12.99 56.62 74 -17.54 PK Vertical 2400.00 53.14 43.80 5.12 25.90 -12.99 56.62 74 -17.54 PK Vertical 2400.00 53.14 43.80 5.12 25.90 -12.99 56.62 74 -17.54 PK Vertical 2400.00 53.14 43.80 5.12 25.90 -12.99 56.62 74 -17.54 PK Vertical 2400.00 53.14 43.80 5.12 25.90 -12.99 56.62 74 -17.54 PK Vertical 2400.00 53.14 43.80 5.12 25.90 -12.99 56.62 74 -17.54 PK Vertical 2400.00 53.14 43.80 5.12 25.90 -12.99 56.62 74 -17.54 PK Vertical 2400.00 53.14 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2400.00 53.14 43.80 5.12 25.90 -12.7	2400.00	68.78	43.80	4.91	25.90	-12.99	55.79	74	-18.21	PK	Horizontal
2483.50 52.79 43.80 5.12 25.90 -12.78 40.01 54 -13.99 AV Vertical 2483.50 69.98 43.80 5.12 25.90 -12.78 40.28 54 -13.72 AV Horizontal 7483.50 53.06 43.80 5.12 25.90 -12.78 40.28 54 -13.72 AV Horizontal 7400.00 68.63 43.80 4.91 25.90 -12.99 55.64 74 -18.36 PK Vertical 2400.00 53.12 43.80 4.91 25.90 -12.99 55.57 74 -18.43 PK Horizontal 2483.50 69.17 43.80 5.12 25.90 -12.78 40.64 54 -13.36 AV Vertical 2483.50 53.42 43.80 5.12 25.90 -12.78 40.64 54 -13.36 AV Vertical 2483.50 52.78 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 52.78 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 53.49 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 53.49 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 53.49 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 53.49 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 53.49 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 53.49 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 53.49 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 52.78 43.80 5.12 25.90 -12.78 40.00 54 -14.00 AV Horizontal 2400.00 53.99 43.80 4.91 25.90 -12.99 55.66 74 -16.64 PK Horizontal 2400.00 53.99 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 5.12 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 5.12 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2483.50 69.24 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 52.31 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 70.10 74 -16.59 PK Horizontal 2483.50 70.19 43.80 5.12 25.90 -12.78 70.10 74 -16.59 PK Horizontal 2483.50 70.19 43.80 5.12 2	2400.00	53.26	43.80	4.91	25.90	-12.99	40.27	54	-13.73	AV	Horizontal
2483.50 69.98 43.80 5.12 25.90 -12.78 57.20 74 -16.80 PK Horizontal 2483.50 53.06 43.80 5.12 25.90 -12.78 40.28 54 -13.72 AV Horizontal 77/4-DOPSK 2400.00 68.63 43.80 4.91 25.90 -12.99 55.64 74 -18.36 PK Vertical 2400.00 53.38 43.80 4.91 25.90 -12.99 40.39 54 -13.61 AV Vertical 2400.00 53.12 43.80 4.91 25.90 -12.99 40.13 54 -13.87 AV Horizontal 2400.00 53.12 43.80 4.91 25.90 -12.99 40.13 54 -13.87 AV Horizontal 2483.50 69.17 43.80 5.12 25.90 -12.78 56.39 74 -17.61 PK Vertical 2483.50 52.78 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 52.78 43.80 5.12 25.90 -12.78 40.00 54 -14.00 AV Horizontal 2483.50 52.78 43.80 4.91 25.90 -12.99 55.46 74 -18.54 PK Vertical 2483.50 53.99 43.80 4.91 25.90 -12.78 40.00 54 -14.00 AV Horizontal 2483.50 53.99 43.80 4.91 25.90 -12.99 55.46 74 -18.54 PK Vertical 2400.00 53.99 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 4.91 25.90 -12.99 40.15 54 -13.00 AV Vertical 2400.00 53.14 43.80 5.12 25.90 -12.78 56.46 74 -17.38 PK Horizontal 2483.50 52.31 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 52.31 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 52.31 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 52.31 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 56.46 74 -14.47 AV Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 56.46 74 -14.47 AV Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 57.41 74 -16.59 PK Horizontal 2483.50 70.19 43.80 5.12 25	2483.50	70.47	43.80	5.12	25.90	-12.78	57.69	74	-16.31	PK	Vertical
2483.50 53.06 43.80 5.12 25.90 -12.78 40.28 54 -13.72 AV Horizontal Horizontal TI/4-DQPSK 2400.00 68.63 43.80 4.91 25.90 -12.99 55.64 74 -18.36 PK Vertical 2400.00 53.38 43.80 4.91 25.90 -12.99 40.39 54 -13.61 AV Vertical 2400.00 68.56 43.80 4.91 25.90 -12.99 55.57 74 -18.43 PK Horizontal 2400.00 53.12 43.80 4.91 25.90 -12.99 40.13 54 -13.87 AV Horizontal 2483.50 69.17 43.80 5.12 25.90 -12.78 56.39 74 -17.61 PK Vertical 2483.50 70.14 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 4483.50 52.7	2483.50	52.79	43.80	5.12	25.90	-12.78	40.01	54	-13.99	AV	Vertical
Tr/4-DQPSK 2400.00 68.63 43.80 4.91 25.90 -12.99 55.64 74 -18.36 PK Vertical 2400.00 53.38 43.80 4.91 25.90 -12.99 40.39 54 -13.61 AV Vertical 2400.00 68.56 43.80 4.91 25.90 -12.99 40.13 54 -13.87 AV Horizontal 2400.00 53.12 43.80 4.91 25.90 -12.99 40.13 54 -13.87 AV Horizontal 2483.50 69.17 43.80 5.12 25.90 -12.78 56.39 74 -17.61 PK Vertical 2483.50 70.14 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 52.78 43.80 5.12 25.90 -12.78 40.00 54 -14.00 AV Horizontal 2400.00 58.45 43.8	2483.50	69.98	43.80	5.12	25.90	-12.78	57.20	74	-16.80	PK	Horizontal
2400.00 68.63 43.80 4.91 25.90 -12.99 55.64 74 -18.36 PK Vertical 2400.00 53.38 43.80 4.91 25.90 -12.99 40.39 54 -13.61 AV Vertical 2400.00 68.56 43.80 4.91 25.90 -12.99 55.57 74 -18.43 PK Horizontal 2400.00 53.12 43.80 4.91 25.90 -12.99 40.13 54 -13.87 AV Horizontal 2483.50 69.17 43.80 5.12 25.90 -12.78 56.39 74 -17.61 PK Vertical 2483.50 53.42 43.80 5.12 25.90 -12.78 40.64 54 -13.36 AV Vertical 2483.50 70.14 43.80 5.12 25.90 -12.78 40.00 54 -14.00 AV Horizontal 2480.50 52.78 43.80 4.91 25.90 <	2483.50	53.06	43.80	5.12	25.90	-12.78	40.28	54	-13.72	AV	Horizontal
2400.00 53.38 43.80 4.91 25.90 -12.99 40.39 54 -13.61 AV Vertical 2400.00 68.56 43.80 4.91 25.90 -12.99 55.57 74 -18.43 PK Horizontal 2400.00 53.12 43.80 4.91 25.90 -12.99 40.13 54 -13.87 AV Horizontal 2483.50 69.17 43.80 5.12 25.90 -12.78 56.39 74 -17.61 PK Vertical 2483.50 53.42 43.80 5.12 25.90 -12.78 40.64 54 -13.36 AV Vertical 2483.50 70.14 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 52.78 43.80 5.12 25.90 -12.78 40.00 54 -14.00 AV Horizontal 2400.00 68.45 43.80 4.91 25.90						π/4-DQPSK					
2400.00 68.56 43.80 4.91 25.90 -12.99 55.57 74 -18.43 PK Horizontal PK 2400.00 53.12 43.80 4.91 25.90 -12.99 40.13 54 -13.87 AV Horizontal PK 2483.50 69.17 43.80 5.12 25.90 -12.78 56.39 74 -17.61 PK Vertical Vertical Vertical PK 2483.50 53.42 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal PK 2483.50 52.78 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal PK 2400.00 52.78 43.80 5.12 25.90 -12.78 40.00 54 -14.00 AV Horizontal Horizontal PK 2400.00 68.45 43.80 4.91 25.90 -12.99 55.46 74 -18.54 PK Vertical PK 2400.00 69.61 43.80	2400.00	68.63	43.80	4.91	25.90	-12.99	55.64	74	-18.36	PK	Vertical
2400.00 53.12 43.80 4.91 25.90 -12.99 40.13 54 -13.87 AV Horizontal Hor	2400.00	53.38	43.80	4.91	25.90	-12.99	40.39	54	-13.61	AV	Vertical
2483.50 69.17 43.80 5.12 25.90 -12.78 56.39 74 -17.61 PK Vertical 2483.50 53.42 43.80 5.12 25.90 -12.78 40.64 54 -13.36 AV Vertical 2483.50 70.14 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 52.78 43.80 5.12 25.90 -12.78 40.00 54 -14.00 AV Horizontal 2400.00 68.45 43.80 4.91 25.90 -12.99 55.46 74 -18.54 PK Vertical 2400.00 53.99 43.80 4.91 25.90 -12.99 41.00 54 -13.00 AV Vertical 2400.00 69.61 43.80 4.91 25.90 -12.99 40.00 54 -13.00 AV Vertical 2400.00 53.14 43.80 4.91 25.90 <td< td=""><td>2400.00</td><td>68.56</td><td>43.80</td><td>4.91</td><td>25.90</td><td>-12.99</td><td>55.57</td><td>74</td><td>-18.43</td><td>PK</td><td>Horizontal</td></td<>	2400.00	68.56	43.80	4.91	25.90	-12.99	55.57	74	-18.43	PK	Horizontal
2483.50 53.42 43.80 5.12 25.90 -12.78 40.64 54 -13.36 AV Vertical 2483.50 70.14 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal 2483.50 52.78 43.80 5.12 25.90 -12.78 40.00 54 -14.00 AV Horizontal **BPSK**********************************	2400.00	53.12	43.80	4.91	25.90	-12.99	40.13	54	-13.87	AV	Horizontal
2483.50 70.14 43.80 5.12 25.90 -12.78 57.36 74 -16.64 PK Horizontal PK 2483.50 52.78 43.80 5.12 25.90 -12.78 40.00 54 -14.00 AV Horizontal PK 2400.00 68.45 43.80 4.91 25.90 -12.99 55.46 74 -18.54 PK Vertical Vertical PK 2400.00 53.99 43.80 4.91 25.90 -12.99 41.00 54 -13.00 AV Vertical Vertical PK 2400.00 69.61 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal Horizontal PK 2400.00 53.14 43.80 4.91 25.90 -12.99 40.15 54 -13.85 AV Horizontal PK 2483.50 69.24 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical PK 2483.50 70.19 43.80	2483.50	69.17	43.80	5.12	25.90	-12.78	56.39	74	-17.61	PK	Vertical
2483.50 52.78 43.80 5.12 25.90 -12.78 40.00 54 -14.00 AV Horizontal AV 8DPSK 2400.00 68.45 43.80 4.91 25.90 -12.99 55.46 74 -18.54 PK Vertical AV 2400.00 53.99 43.80 4.91 25.90 -12.99 41.00 54 -13.00 AV Vertical Vertical AV 2400.00 69.61 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal AV 2400.00 53.14 43.80 4.91 25.90 -12.99 40.15 54 -13.85 AV Horizontal AV 2483.50 69.24 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical AV 2483.50 70.19 43.80 5.12 25.90 -12.78 39.53 54 -14.47 AV Vertical AV 2483.50 70.1	2483.50	53.42	43.80	5.12	25.90	-12.78	40.64	54	-13.36	AV	Vertical
8DPSK 2400.00 68.45 43.80 4.91 25.90 -12.99 55.46 74 -18.54 PK Vertical 2400.00 53.99 43.80 4.91 25.90 -12.99 41.00 54 -13.00 AV Vertical 2400.00 69.61 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 4.91 25.90 -12.99 40.15 54 -13.85 AV Horizontal 2483.50 69.24 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 52.31 43.80 5.12 25.90 -12.78 39.53 54 -14.47 AV Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 57.41 74 -16.59 PK Horizontal	2483.50	70.14	43.80	5.12	25.90	-12.78	57.36	74	-16.64	PK	Horizontal
2400.00 68.45 43.80 4.91 25.90 -12.99 55.46 74 -18.54 PK Vertical 2400.00 53.99 43.80 4.91 25.90 -12.99 41.00 54 -13.00 AV Vertical 2400.00 69.61 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 4.91 25.90 -12.99 40.15 54 -13.85 AV Horizontal 2483.50 69.24 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 52.31 43.80 5.12 25.90 -12.78 39.53 54 -14.47 AV Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 57.41 74 -16.59 PK Horizontal	2483.50	52.78	43.80	5.12	25.90	-12.78	40.00	54	-14.00	AV	Horizontal
2400.00 53.99 43.80 4.91 25.90 -12.99 41.00 54 -13.00 AV Vertical 2400.00 69.61 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal 2400.00 53.14 43.80 4.91 25.90 -12.99 40.15 54 -13.85 AV Horizontal 2483.50 69.24 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 52.31 43.80 5.12 25.90 -12.78 39.53 54 -14.47 AV Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 57.41 74 -16.59 PK Horizontal						8DPSK					
2400.00 69.61 43.80 4.91 25.90 -12.99 56.62 74 -17.38 PK Horizontal Hori	2400.00	68.45	43.80	4.91	25.90	-12.99	55.46	74	-18.54	PK	Vertical
2400.00 53.14 43.80 4.91 25.90 -12.99 40.15 54 -13.85 AV Horizontal Avertical Avertic	2400.00	53.99	43.80	4.91	25.90	-12.99	41.00	54	-13.00	AV	Vertical
2483.50 69.24 43.80 5.12 25.90 -12.78 56.46 74 -17.54 PK Vertical 2483.50 52.31 43.80 5.12 25.90 -12.78 39.53 54 -14.47 AV Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 57.41 74 -16.59 PK Horizontal	2400.00	69.61	43.80	4.91	25.90	-12.99	56.62	74	-17.38	PK	Horizontal
2483.50 52.31 43.80 5.12 25.90 -12.78 39.53 54 -14.47 AV Vertical 2483.50 70.19 43.80 5.12 25.90 -12.78 57.41 74 -16.59 PK Horizontal	2400.00	53.14	43.80	4.91	25.90	-12.99	40.15	54	-13.85	AV	Horizontal
2483.50 70.19 43.80 5.12 25.90 -12.78 57.41 74 -16.59 PK Horizontal	2483.50	69.24	43.80	5.12	25.90	-12.78	56.46	74	-17.54	PK	Vertical
	2483.50	52.31	43.80	5.12	25.90	-12.78	39.53	54	-14.47	AV	Vertical
2483.50 52.43 43.80 5.12 25.90 -12.78 39.65 54 -14.35 AV Horizontal	2483.50	70.19	43.80	5.12	25.90	-12.78	57.41	74	-16.59	PK	Horizontal
	2483.50	52.43	43.80	5.12	25.90	-12.78	39.65	54	-14.35	AV	Horizontal

 $Low\ measurement\ frequencies\ is\ range\ from\ 2310\ to\ 2400\ MHz, high\ measurement\ frequencies\ is\ range\ from\ 2483.5\ to\ 2500\ MHz.$

Only show the worst point data of the emissions in the frequency 2310-2400 MHz and 2483.5-2500 MHz.



4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 REQUIREMENT

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.

4.2 TEST PROCEDURE

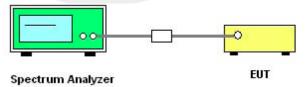
Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	30 MHz to 10th carrier harmonic		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stan Eraguanay	Lower Band Edge: 2310 – 2404 MHz		
Start/Stop Frequency	Upper Band Edge: 2478 – 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

Remark: Hopping on and Hopping off mode all have been tested, only worst case hopping off is reported.

4.3 TEST SETUP



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; 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.

4.4 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.

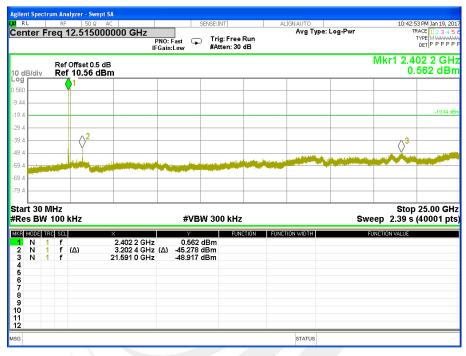


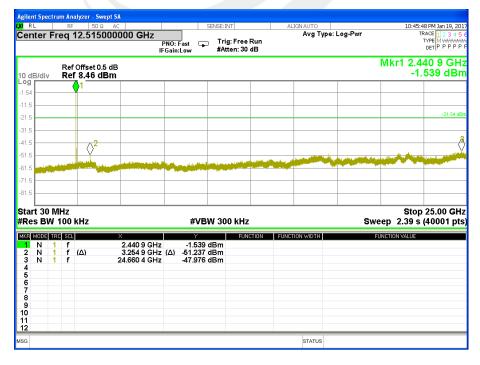


4.5 TEST RESULTS

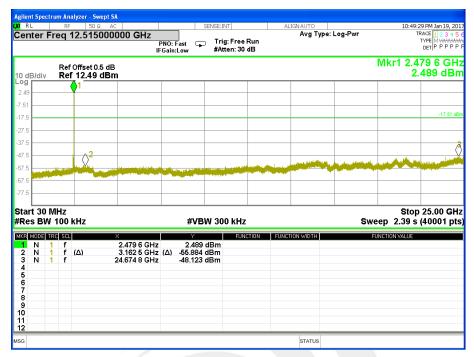
Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	GFSK(1Mbps)-00/39/78 CH		

00 CH





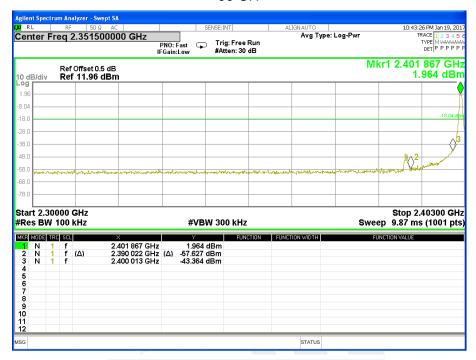






For Band edge

00 CH

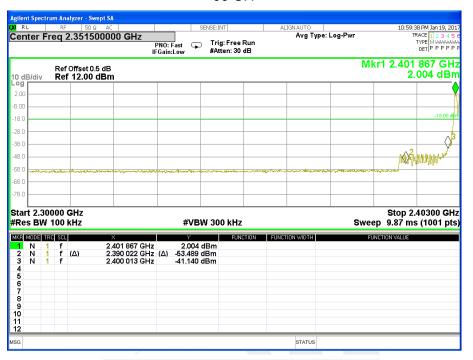


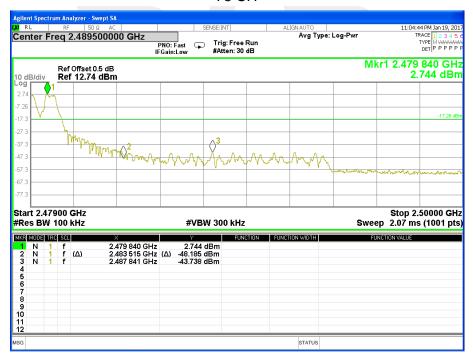




For Hopping Band edge

00 CH





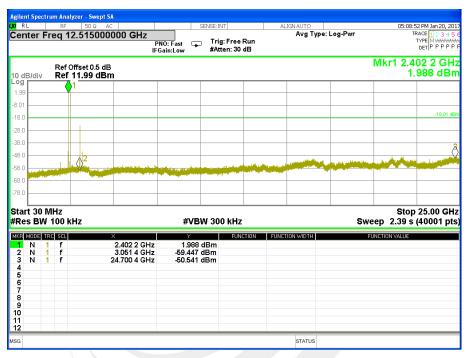


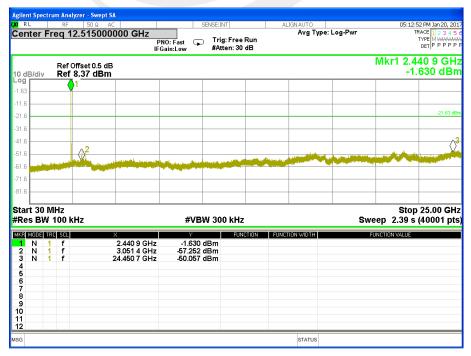


Report No.: STS1701084F02

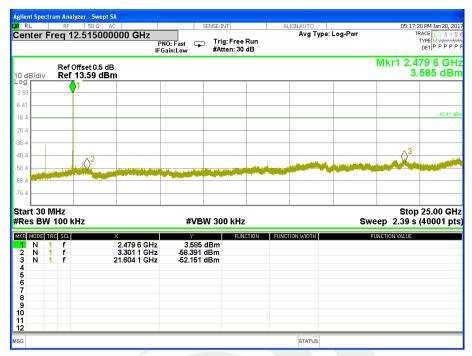
Temperature :	25 ℃	Relative Humidity:	50%		
Pressure :	1012 hPa	Test Voltage :	DC 3.7V		
Test Mode :	π/4-DQPSK(2Mbps) –00/39/78 CH				

00 CH





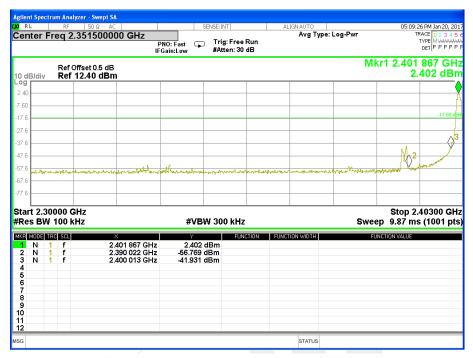


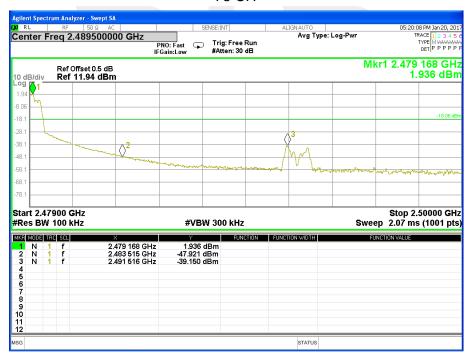




For Band edge

00 CH

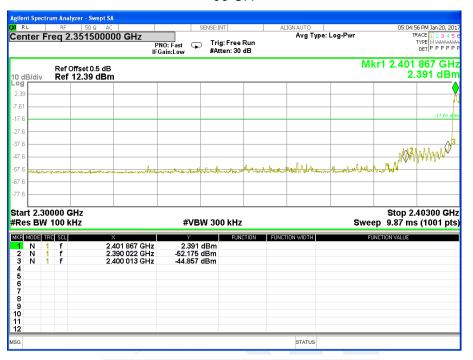


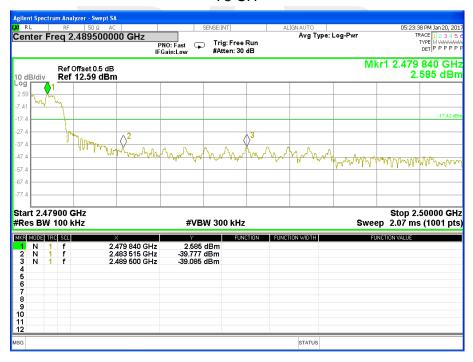




For Hopping Band edge

00 CH





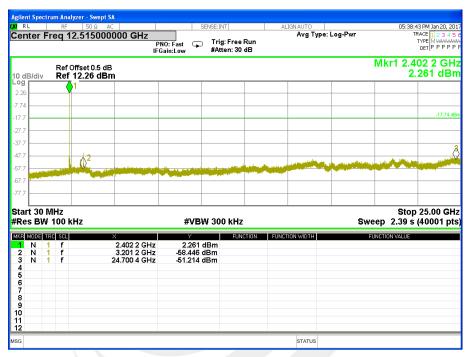


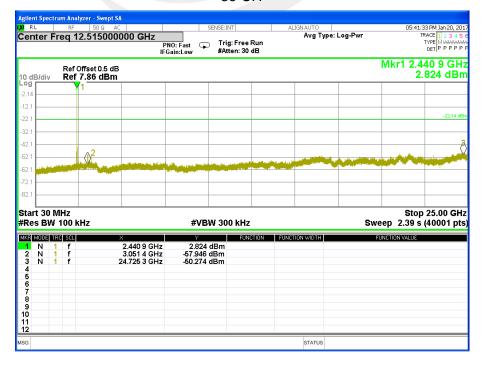
Report No.: STS1701084F02



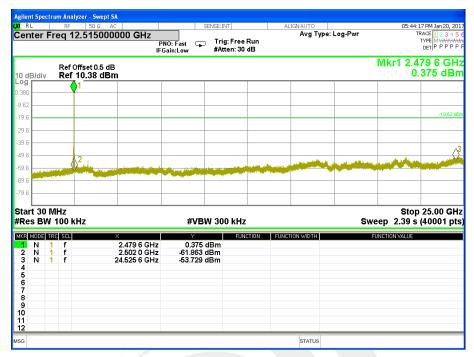
Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	8-DPSK(3Mbps) -00/39/78 CH		

00 CH





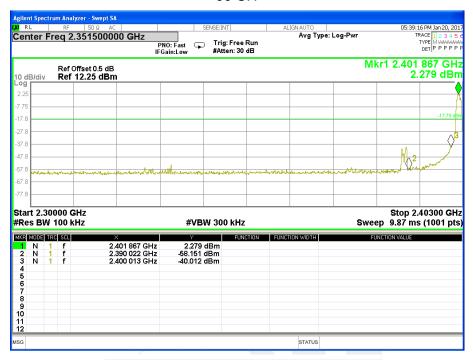






For Band edge

00 CH

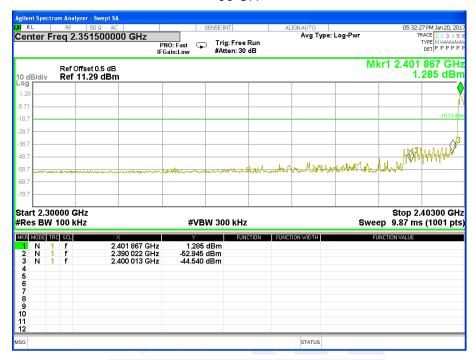






For Hopping Band edge

00 CH







5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating FrequencyRange
RB	100KHz
VB	100KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.





5.5 TEST RESULTS

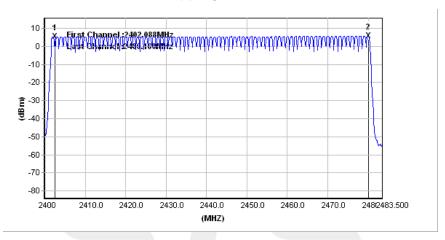
Temperature :	25℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode		

Number of Hopping Channel

79

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Hopping channel





6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW =1MHz/VBW =3MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to e. zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/79 / 6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). Sothe dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). Sothe dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds.
- k. DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds.

6.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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6.5 TEST RESULTS

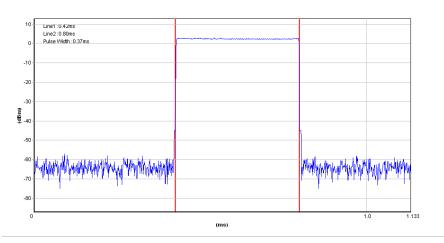
Temperature :	25℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	GFSK(1Mbps)-DH1/DH3/DH5		

Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)
DH1	2441 MHz	0.370	0.118	0.4
DH3	2441 MHz	1.630	0.261	0.4
DH5	2441 MHz	2.880	0.307	0.4

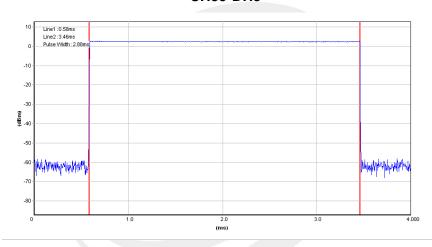




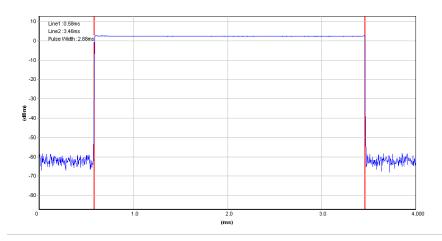
CH39-DH1



CH39-DH3



CH39-DH5





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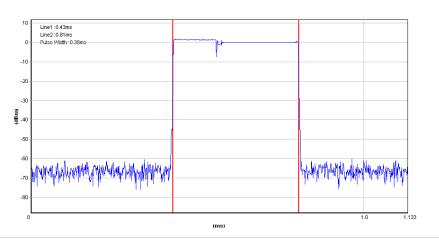
Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	π/4-DQPSK(2Mbps) –2DH1/2DH3/2DH5		

Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)
2DH1	2441 MHz	0.380	0.122	0.4
2DH3	2441 MHz	1.640	0.262	0.4
2DH5	2441 MHz	2.880	0.307	0.4

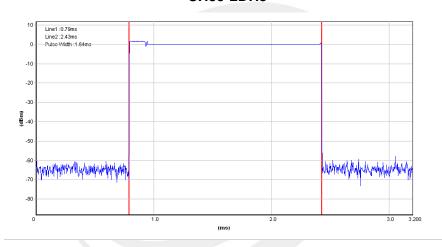




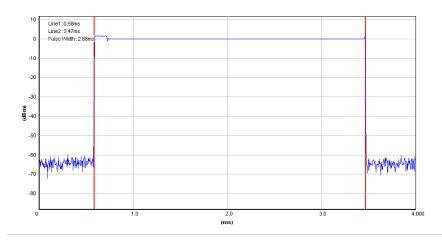
CH39-2DH1



CH39-2DH3



CH39-2DH5





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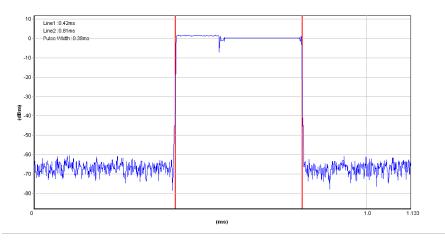
Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	8DPSK(3Mbps) -3DH1/3DH3/3DH5		

Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)
3DH1	2441 MHz	0.380	0.122	0.4
3DH3	2441 MHz	1.640	0.262	0.4
3DH5	2441 MHz	2.890	0.308	0.4

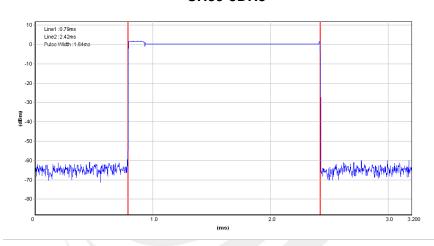




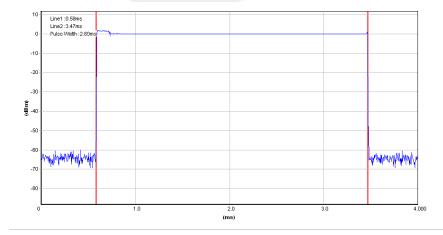
CH39-3DH1



CH39-3DH3



CH39-3DH5





7. HOPPING CHANNEL SEPARATION MEASUREMEN

7.1 APPLIED PROCEDURES / LIMIT

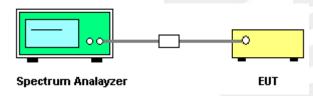
Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> 20 dB Bandwidth or Channel Separation	
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)	
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

7.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- c. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.





7.5 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (GFSK(1Mbps) Mode)		

Frequency	Ch. Separation (MHz)	Limit	Result
2402 MHz	0.995	0.764	Complies
2441 MHz	1.005	0.773	Complies
2480 MHz	1.000	0.745	Complies

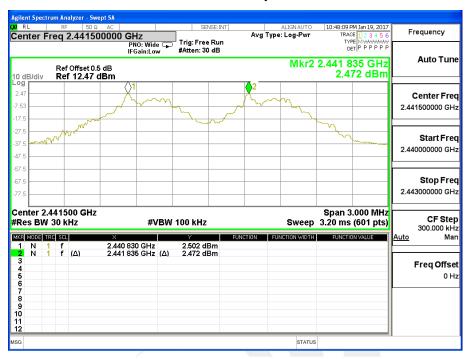
For GFSK: Ch. Separation Limits: > 20dB bandwidth

CH00 -1Mbps

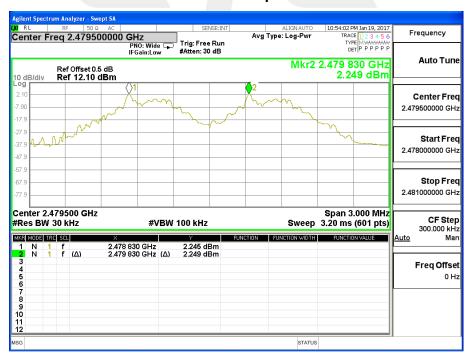




CH39 -1Mbps



CH78 -1Mbps





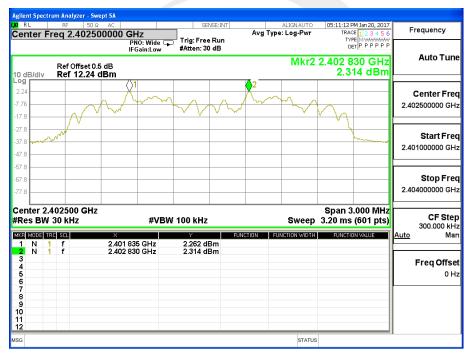
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Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (π/4-DQPSK(2Mbps) Mode)		

Frequency	Ch. Separation (MHz)	Limit	Result
2402 MHz	0.995	0.857	Complies
2441 MHz	1.000	0.856	Complies
2480 MHz	1.005	0.856	Complies

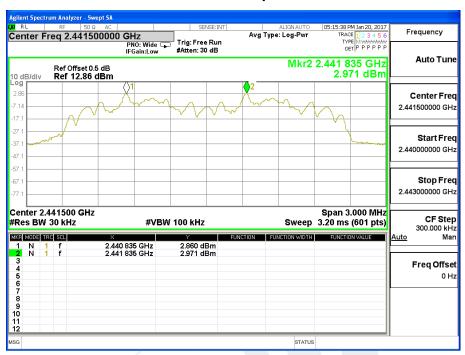
For $\pi/4$ -DQPSK(2Mbps): Ch. Separation Limits: > two-thirds 20dB bandwidth

CH00 -2Mbps





CH39 -2Mbps



CH78 -2Mbps







Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (8-DPSK(3Mbps)Mode)		

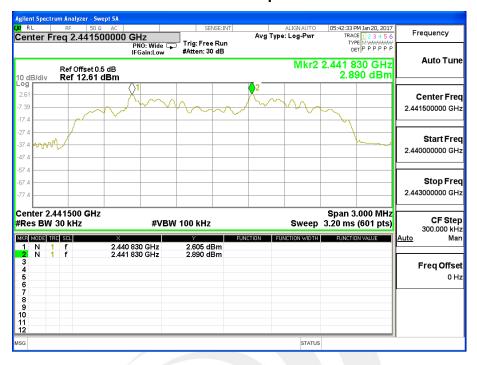
Frequency	Ch. Separation (MHz)	Limit	Result
2402 MHz	1.000	0.803	Complies
2441 MHz	1.000	0.804	Complies
2480 MHz	1.005	0.839	Complies

For 8-DPSK(3Mbps):Ch. Separation Limits: > two-thirds 20dB bandwidth **CH00 -3Mbps**





CH39 -3Mbps



CH78 -3Mbps





8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 15.247,Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)	
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

8.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



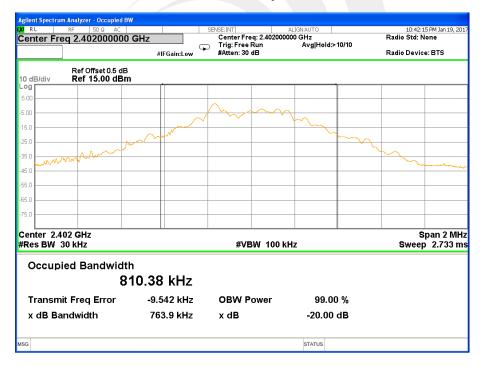


8.5 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	GFSK(1Mbps)CH00 / CH39 /C78		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	0.764	PASS
2441 MHz	0.773	PASS
2480 MHz	0.775	PASS

CH00 -1Mbps





CH39 -1Mbps



CH78 -1Mbps



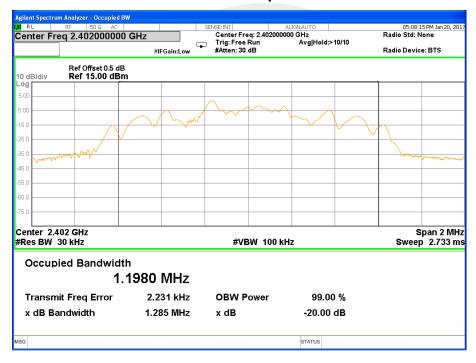


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Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	π/4-DQPSK(2Mbps)CH00 / CH39 /C78		

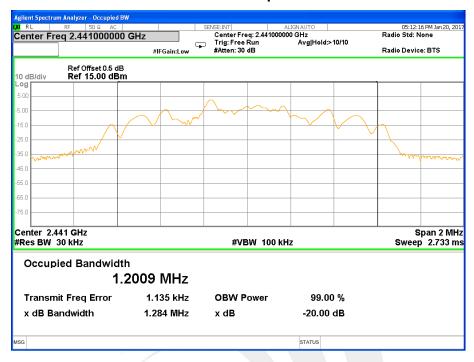
Frequency	20dB Bandwidth(MHz)	Result
2402 MHz	1.285	PASS
2441 MHz	1.284	PASS
2480 MHz	1.284	PASS

CH00 -2Mbps

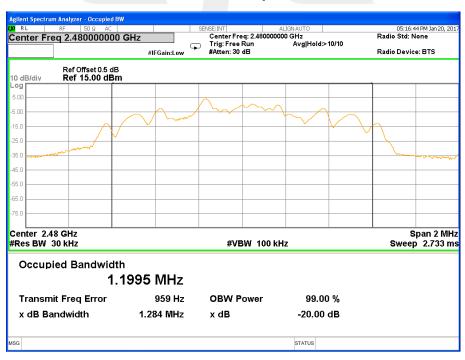




CH39 -2Mbps



CH78 -2Mbps



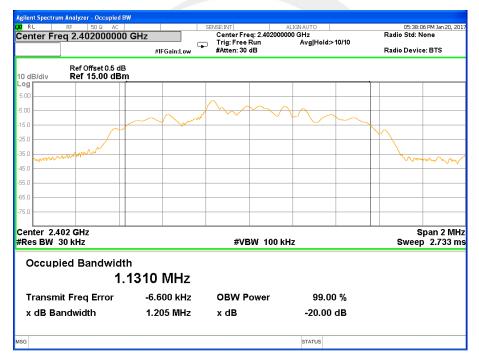


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Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	8DPSK(3Mbps)CH00 / CH39 / CH78		

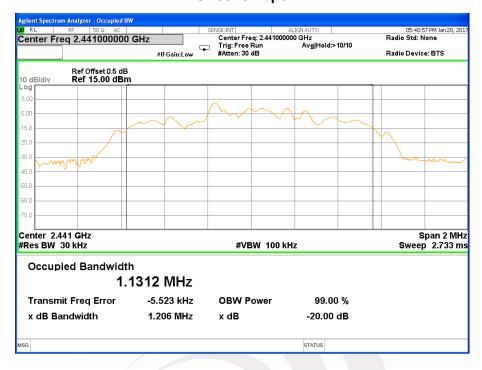
Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.205	PASS
2441 MHz	1.206	PASS
2480 MHz	1.258	PASS

CH00 -3Mbps

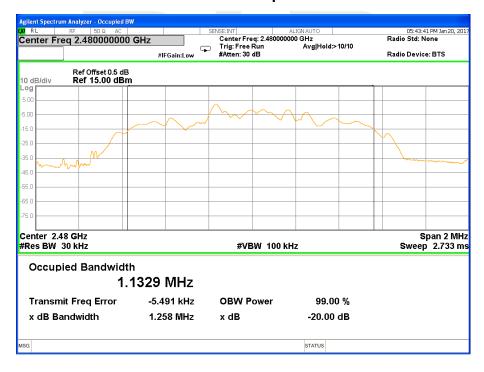




CH39 -3Mbps



CH78 -3Mbps





9. OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)&(b)(1)	Output Power	1 W or 0.125W if channel separation > 2/3 bandwidthprovided thesystems operatewith an	2400-2483.5	PASS
		output power no greater than125 mW(20.96dBm)		

9.2 TEST PROCEDURE

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

9.3 TEST SETUP



9.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



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9.5 TEST RESULTS

Temperature :	25℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V

GFSK(1Mbps)					
Test Channel	Frequency	Conducted Output Power		LIMIT	
rest Charmer	(MHz)	Peak (dBm)	AVG (dBm)	dBm	
CH00	2402	5.85	1.36	30	
CH39	2441	6.23	1.74	30	
CH78	2480	6.51	2.12	30	

Note: the channel separation > bandwidth

π/4QPSK(2Mbps)				
Test Channel	Frequency	Conducted Output Power		LIMIT
Test Charmer	(MHz)	Peak (dBm)	AVG (dBm)	dBm
CH00	2402	5.39	0.85	20.96
CH39	2441	5.76	1.25	20.96
CH78	2480	6.23	1.73	20.96

Note: the channel separation >2/3 bandwidth

8-DPSK(3Mbps)					
Test Channel	Frequency	Conducted (Output Power	LIMIT	
rest Charmer	(MHz)	Peak (dBm)	AVG (dBm)	dBm	
CH00	2402	5.24	0.75	20.96	
CH39	2441	5.52	1.12	20.96	
CH78	2480	6.12	1.63	20.96	

Note: the channel separation >2/3 bandwidth



10. ANTENNA REQUIREMENT

10.1 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.

10.2 EUT ANTENNA

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





APPENDIX-PHOTOS OF TEST SETUP









Conducted Measurement Photos



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