



RADIO TESTREPORT

Report No: STS1612040F02

Issued for

Sun Cupid Technology (HK) Ltd.

16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon, Hong Kong

L A B

Product Name:	Mobile phone
Brand Name:	NUU
Model Name:	F3
Series Model:	N/A
FCC ID:	2ADINNUUF3
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant'sname:	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon, Hong Kong
Manufacture's Name:	SUNCUPID (SHENZHEN) ELECTRONIC LTD
Address:	Baolong Industrial City, Longgang District, Shenzhen Hi-Tech Road, Building 1, A 7, Shenzhen, China
Product description	
Product name:	Mobile phone
Brand name:	NUU
Model and/or type reference .:	F3
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:	06 Dec. 2016~08 Dec. 2016
Date of Issue:	09 Dec. 2016
Test Result:	Pass
	,
Testing Engineer	(Leo)
Technical Manag	(Tony)
Authorized Signa	(Bovey Yang)



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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	09 Dec. 2016	STS1612040F02	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	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247(a)(1)	Hopping Channel Separation	PASS		
15.247(a)(1)&(b)(1)	Output Power	PASS		
15.247(d)	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	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





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 95 % $^{\circ}$

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	Mobile phone
Trade Name	NUU
Model Name	F3
Series Model	N/A
Model Difference	N/A
Channel List	Please refer to the Note 2.
Bluetooth	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps)
Adapter	Input: AC 100-240V, 200mA, 50/60 Hz Output: DC 5V, 500mA
Battery	Rated Voltage: 3.7V
	Capacity: 600mAh
Hardware version number	N/A
Software version number	RDA8851C_H022_3264_128160_Q3_F3_EnFrSpPo RuArPe_R38329_release_flash
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

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



2.

	Channel List				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
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	NUU	F3	Dipole 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

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

of AC Conducted L	1111331011
	Test Case
AC Conducted	Mode 4 : 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(1Mbps)	Power class: 1 M rate:4:27	Power class: 1 M rate:4:27	Power class: 1 M rate:4:27		



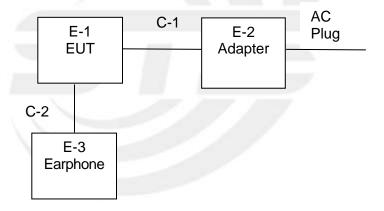
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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	Mobile phone	NUU	F3	N/A	EUT
E-2	Adapter	NUU	F3	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	Earphone line	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

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	2019.03.03
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	2019.03.03
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	t 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.

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

Note:

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

The following table is the setting of the receiver

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

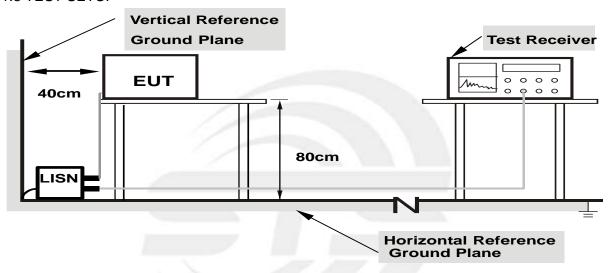




3.1.2 TEST PROCEDURE

- 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.



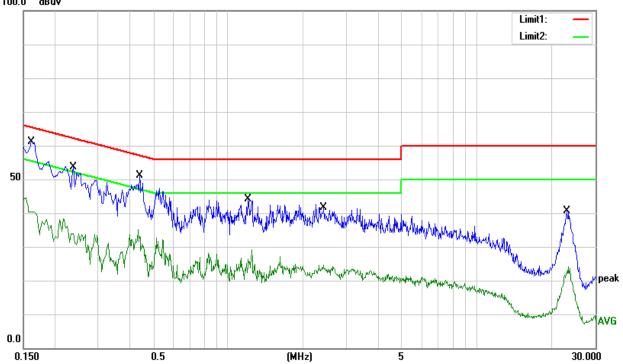
3.1.5 TEST RESULT

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1620	51.90	9.23	61.13	65.36	-4.23	QP
0.1620	31.11	9.23	40.34	55.36	-15.02	AVG
0.2380	44.40	9.19	53.59	62.17	-8.58	QP
0.2380	24.64	9.19	33.83	52.17	-18.34	AVG
0.4420	41.77	9.31	51.08	57.02	-5.94	QP
0.4420	23.78	9.31	33.09	47.02	-13.93	AVG
1.2060	34.92	9.17	44.09	56.00	-11.91	QP
1.2060	17.23	9.17	26.40	46.00	-19.60	AVG
2.4220	32.33	9.26	41.59	56.00	-14.41	QP
2.4220	15.21	9.26	24.47	46.00	-21.53	AVG
23.0980	30.72	9.80	40.52	60.00	-19.48	QP
23.0980	12.93	9.80	22.73	50.00	-27.27	AVG

Remark:

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



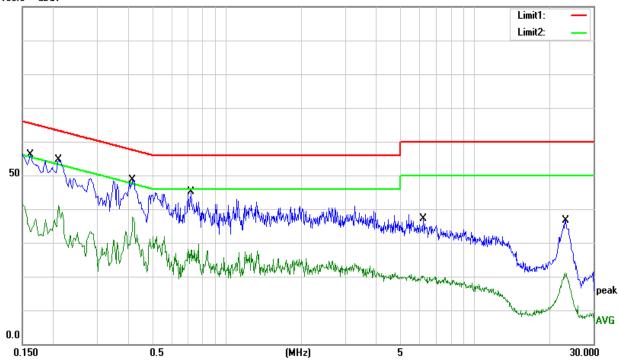
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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1620	46.79	9.23	56.02	65.36	-9.34	QP
0.1620	24.09	9.23	33.32	55.36	-22.04	AVG
0.2100	45.30	9.22	54.52	63.21	-8.69	QP
0.2100	31.78	9.22	41.00	53.21	-12.21	AVG
0.4180	39.36	9.22	48.58	57.49	-8.91	QP
0.4180	28.48	9.22	37.70	47.49	-9.79	AVG
0.7180	35.95	9.24	45.19	56.00	-10.81	QP
0.7180	18.71	9.24	27.95	46.00	-18.05	AVG
6.2020	27.91	9.28	37.19	60.00	-22.81	QP
6.2020	10.75	9.28	20.03	50.00	-29.97	AVG
23.1580	26.77	9.85	36.62	60.00	-23.38	QP
23.1580	10.33	9.85	20.18	50.00	-29.82	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 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

TO OT TO BIT THE ENGINEER (C.OCCIVILIZE TO CONTINE)					
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

of Radiatoa Efficient	
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	PK=1MHz / 1MHz, AV=1 MHz /10 Hz
band)	FR=11VIDZ/11VIDZ, AV=1 IVIDZ/10 DZ

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Ctort/Ctor Fraguerou	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:

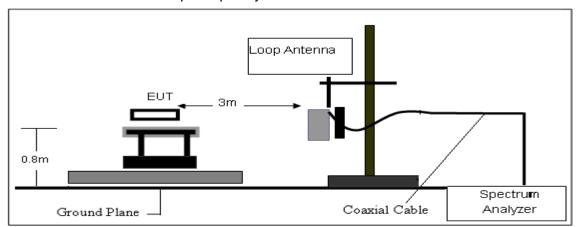
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD No deviation

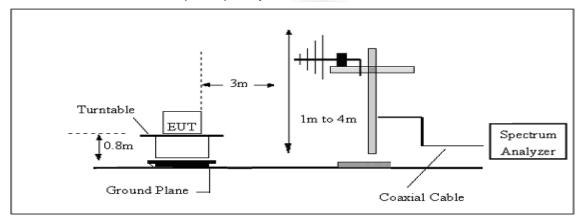


3.2.4 TESTSETUP

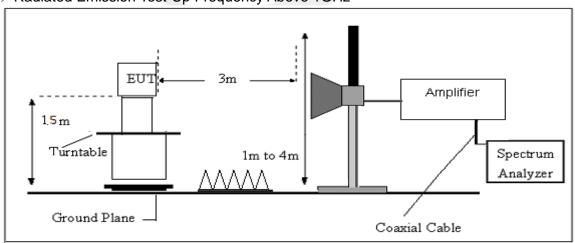
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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.



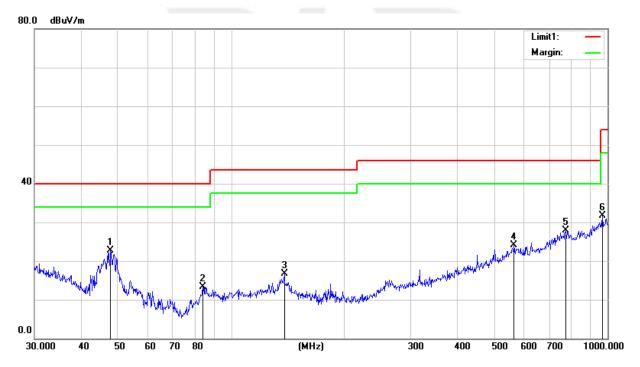
(30MHz-1000MHz)

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

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
47.8260	43.00	-20.36	22.64	40.00	-17.36	QP
84.1100	34.91	-21.66	13.25	40.00	-26.75	QP
138.3873	34.24	-17.51	16.73	43.50	-26.77	QP
564.6390	30.73	-6.59	24.14	46.00	-21.86	QP
774.1584	31.13	-3.25	27.88	46.00	-18.12	QP
968.9338	31.84	-0.13	31.71	54.00	-22.29	QP

Remark:

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



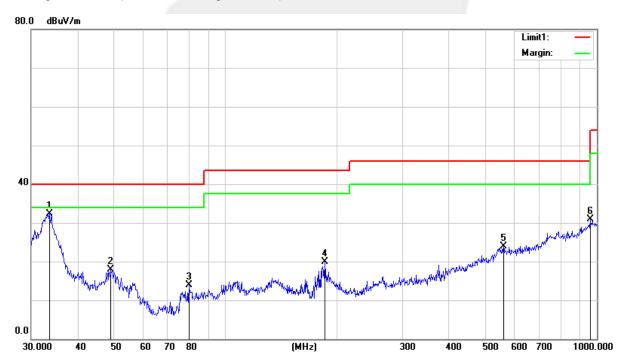


Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	DC 3.7V from battery	LIAST MANAGE.	Mode 1/2/3 (Mode 3-1M worst mode)

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
33.5624	45.37	-13.02	32.35	40.00	-7.65	QP
49.1865	38.92	-21.06	17.86	40.00	-22.14	QP
79.8003	36.58	-22.72	13.86	40.00	-26.14	QP
185.1380	39.67	-19.85	19.82	43.50	-23.68	QP
560.6928	30.55	-6.57	23.98	46.00	-22.02	QP
958.7943	31.02	-0.16	30.86	46.00	-15.14	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 Cl	hannel (2402 M	1Hz)				
3264.85	48.65	44.70	6.70	28.20	-9.80	38.85	74.00	-35.15	PK	Vertical
3264.85	39.70	44.70	6.70	28.20	-9.80	29.90	54.00	-24.10	AV	Vertical
3264.85	48.60	44.70	6.70	28.20	-9.80	38.80	74.00	-35.20	PK	Horizontal
3264.85	38.15	44.70	6.70	28.20	-9.80	28.35	54.00	-25.65	AV	Horizontal
4804.51	59.47	44.20	9.04	31.60	-3.56	55.91	74.00	-18.09	PK	Vertical
4804.51	38.38	44.20	9.04	31.60	-3.56	34.82	54.00	-19.18	AV	Vertical
4804.43	58.42	44.20	9.04	31.60	-3.56	54.86	74.00	-19.14	PK	Horizontal
4804.43	39.51	44.20	9.04	31.60	-3.56	35.95	54.00	-18.05	AV	Horizontal
5359.63	45.69	44.20	9.86	32.00	-2.34	43.35	74.00	-30.65	PK	Vertical
5359.63	38.00	44.20	9.86	32.00	-2.34	35.66	54.00	-18.34	AV	Vertical
5359.84	46.10	44.20	9.86	32.00	-2.34	43.76	74.00	-30.24	PK	Horizontal
5359.84	37.96	44.20	9.86	32.00	-2.34	35.62	54.00	-18.38	AV	Horizontal
7205.80	51.53	43.50	11.40	35.50	3.40	54.93	74.00	-19.07	PK	Vertical
7205.80	33.24	43.50	11.40	35.50	3.40	36.64	54.00	-17.36	AV	Vertical
7205.68	51.86	43.50	11.40	35.50	3.40	55.26	74.00	-18.74	PK	Horizontal
7205.68	32.95	43.50	11.40	35.50	3.40	36.35	54.00	-17.65	AV	Horizontal
11035.83	41.12	43.60	14.30	39.50	10.20	51.32	74.00	-22.68	PK	Vertical
11035.83	30.00	43.60	14.30	39.50	10.20	40.20	54.00	-13.80	AV	Vertical
11036.02	40.71	43.60	14.30	39.50	10.20	50.91	74.00	-23.09	PK	Horizontal
11036.02	29.86	43.60	14.30	39.50	10.20	40.06	54.00	-13.94	AV	Horizontal
13299.28	40.53	42.60	15.90	38.90	12.20	52.73	74.00	-21.27	PK	Vertical
13299.28	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13299.46	40.61	42.60	15.90	38.90	12.20	52.81	74.00	-21.19	Pk	Horizontal
13299.46	29.77	42.60	15.90	38.90	12.20	41.97	54.00	-12.03	AV	Horizontal
15999.70	40.31	42.70	18.00	37.10	12.40	52.71	74.00	-21.29	PK	Vertical
15999.70	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
15999.62	40.43	42.70	18.00	37.10	12.40	52.83	74.00	-21.17	PK	Horizontal
15999.62	29.22	42.70	18.00	37.10	12.40	41.62	54.00	-12.38	AV	Horizontal
17997.76	29.98	42.70	19.40	46.50	23.20	53.18	74.00	-20.82	PK	Vertical
17997.76	20.09	42.70	19.40	46.50	23.20	43.29	54.00	-10.71	AV	Vertical
17997.53	30.67	42.70	19.40	46.50	23.20	53.87	74.00	-20.13	PK	Horizontal
17997.53	18.95	42.70	19.40	46.50	23.20	42.15	54.00	-11.85	AV	Horizontal





GFSK Mid Channel

Frequency Reading Loss Factor Factor Lowel Limits Margin Detector Lowel Limits Lowel Limits Margin Detector Lowel Limits Limits		Matan				Orrested					
MHz	F===::::		A 120	Les				F 5 5-	N 4 = ·	Detect	
									ŭ		
3264.64	(MHz)	(dBµV)	(dB)	(dB)				(dBµV/m)	(dB)	Туре	Comment
3264.64 38.37			T			· ·	, I	T			Γ
3264.71	3264.64	48.12	44.70	6.70	28.20	-9.80	38.32	74.00	-35.68	PK	Vertical
3264.71 39.26 44.70 6.70 28.20 -9.80 29.46 54.00 -24.54 AV Horizontal 4882.41 59.27 44.20 9.04 31.60 -3.56 55.71 74.00 -18.29 PK Vertical 4882.41 39.17 44.20 9.04 31.60 -3.56 35.61 54.00 -18.16 PK Vertical 4882.32 59.40 44.20 9.04 31.60 -3.56 55.84 74.00 -18.16 PK Horizontal 4882.32 38.55 44.20 9.04 31.60 -3.56 34.99 54.00 -19.01 AV Horizontal 4882.32 38.55 44.20 9.86 32.00 -2.34 43.18 74.00 -30.82 PK Vertical 5359.80 36.96 44.20 9.86 32.00 -2.34 43.05 74.00 -39.95 PK Horizontal 433.70 11.00 9.86 32.00 -2.34 43.05 74.00 -19.53 PK Vertical 4420 9.86 32.00 -2.34 43.05 74.00 <td< td=""><td>3264.64</td><td>38.37</td><td>44.70</td><td>6.70</td><td>28.20</td><td>-9.80</td><td>28.57</td><td>54.00</td><td>-25.43</td><td>AV</td><td>Vertical</td></td<>	3264.64	38.37	44.70	6.70	28.20	-9.80	28.57	54.00	-25.43	AV	Vertical
4882.41 59.27 44.20 9.04 31.60 -3.56 55.71 74.00 -18.29 PK Vertical 4882.41 39.17 44.20 9.04 31.60 -3.56 35.61 54.00 -18.39 AV Vertical 4882.32 59.40 44.20 9.04 31.60 -3.56 55.84 74.00 -18.16 PK Horizontal 6359.80 45.52 44.20 9.86 32.00 -2.34 43.18 74.00 -3.82 PK Vertical 5359.80 36.96 44.20 9.86 32.00 -2.34 43.05 74.00 -3.95 PK Horizontal 5359.82 38.21 44.20 9.86 32.00 -2.34 43.05 74.00 -19.53 PK Vertical 7313.70 51.07 43.50 11.40 35.50 3.40 56.47 74.00 -19.53 PK Vertical 7313.70 32.65 43.50 11.40 35.50 <td>3264.71</td> <td>48.26</td> <td>44.70</td> <td>6.70</td> <td>28.20</td> <td>-9.80</td> <td>38.46</td> <td>74.00</td> <td>-35.54</td> <td>PK</td> <td>Horizontal</td>	3264.71	48.26	44.70	6.70	28.20	-9.80	38.46	74.00	-35.54	PK	Horizontal
4882.41 39.17 44.20 9.04 31.60 -3.56 35.61 54.00 -18.39 AV Vertical 4882.32 59.40 44.20 9.04 31.60 -3.56 55.84 74.00 -18.16 PK Horizontal 4882.32 38.55 44.20 9.04 31.60 -3.56 34.99 54.00 -19.01 AV Horizontal 5359.80 46.52 44.20 9.86 32.00 -2.34 43.18 74.00 -30.92 PK Vertical 5359.82 45.39 44.20 9.86 32.00 -2.34 43.05 74.00 -30.95 PK Horizontal 7313.70 51.07 43.50 11.40 35.50 3.40 54.47 74.00 -19.53 PK Vertical 7313.71 32.65 43.50 11.40 35.50 3.40 36.05 54.00 -17.97 AV Vertical 7313.91 51.43 43.60 14.30 39.50	3264.71	39.26	44.70	6.70	28.20	-9.80	29.46	54.00	-24.54	AV	Horizontal
4882.32 59.40 44.20 9.04 31.60 -3.56 55.84 74.00 -18.16 PK Horizontal Horizontal 4882.32 38.55 44.20 9.04 31.60 -3.56 34.99 54.00 -19.01 AV Horizontal 5359.80 36.96 44.20 9.86 32.00 -2.34 43.18 74.00 30.82 PK Vertical 5359.82 45.39 44.20 9.86 32.00 -2.34 43.05 74.00 30.95 PK Horizontal 5359.82 45.39 44.20 9.86 32.00 -2.34 43.05 74.00 30.95 PK Horizontal 3539.82 38.21 44.20 9.86 32.00 -2.34 35.87 54.00 18.13 AV Horizontal 7313.70 32.65 43.50 11.40 35.50 3.40 36.05 54.00 19.17 PK Horizontal 7313.91 33.23 43.50 11.40	4882.41	59.27	44.20	9.04	31.60	-3.56	55.71	74.00	-18.29	PK	Vertical
4882.32 38.55 44.20 9.04 31.60 -3.56 34.99 54.00 -19.01 AV Horizontal 5359.80 45.52 44.20 9.86 32.00 -2.34 43.18 74.00 -30.82 PK Vertical 5359.82 45.39 44.20 9.86 32.00 -2.34 43.05 74.00 -39.95 PK Horizontal 5359.82 38.21 44.20 9.86 32.00 -2.34 43.65 74.00 -39.95 PK Horizontal 7313.70 51.07 43.50 11.40 35.50 3.40 54.47 74.00 -19.53 PK Vertical 7313.70 32.65 43.50 11.40 35.50 3.40 36.05 54.00 -17.95 AV Vertical 7313.91 51.43 43.50 11.40 35.50 3.40 36.83 74.00 -19.17 PK Horizontal 79607.95 40.93 43.60 14.30 39	4882.41	39.17	44.20	9.04	31.60	-3.56	35.61	54.00	-18.39	AV	Vertical
5359.80 45.52 44.20 9.86 32.00 -2.34 43.18 74.00 -30.82 PK Vertical 5359.80 36.96 44.20 9.86 32.00 -2.34 34.62 54.00 -19.38 AV Vertical 5359.82 38.21 44.20 9.86 32.00 -2.34 43.05 74.00 -30.95 PK Horizontal 7313.70 51.07 43.50 11.40 35.50 3.40 54.47 74.00 -19.53 PK Vertical 7313.70 32.65 43.50 11.40 35.50 3.40 54.47 74.00 -19.53 PK Vertical 7313.91 51.43 43.50 11.40 35.50 3.40 54.83 74.00 -19.17 PK Horizontal 7313.91 33.23 43.60 14.30 39.50 10.20 51.13 74.00 -22.87 PK Vertical 9607.95 30.25 43.60 14.30 39.50<	4882.32	59.40	44.20	9.04	31.60	-3.56	55.84	74.00	-18.16	PK	Horizontal
5359.80 36.96 44.20 9.86 32.00 -2.34 34.62 54.00 -19.38 AV Vertical 5359.82 45.39 44.20 9.86 32.00 -2.34 43.05 74.00 30.95 PK Horizontal 5359.82 38.21 44.20 9.86 32.00 -2.34 35.87 54.00 -19.53 PK Vertical 7313.70 51.07 43.50 11.40 35.50 3.40 54.47 74.00 -19.53 PK Vertical 7313.70 32.65 43.50 11.40 35.50 3.40 36.05 54.00 -17.95 AV Vertical 7313.91 51.43 43.50 11.40 35.50 3.40 36.63 54.00 -17.37 AV Horizontal 9607.95 40.93 43.60 14.30 39.50 10.20 51.13 74.00 -22.87 PK Vertical 9608.26 49.98 43.60 14.30 39.50 </td <td>4882.32</td> <td>38.55</td> <td>44.20</td> <td>9.04</td> <td>31.60</td> <td>-3.56</td> <td>34.99</td> <td>54.00</td> <td>-19.01</td> <td>AV</td> <td>Horizontal</td>	4882.32	38.55	44.20	9.04	31.60	-3.56	34.99	54.00	-19.01	AV	Horizontal
5359.82 45.39 44.20 9.86 32.00 -2.34 43.05 74.00 -30.95 PK Horizontal 5359.82 38.21 44.20 9.86 32.00 -2.34 35.87 54.00 -18.13 AV Horizontal 7313.70 51.07 43.50 11.40 35.50 3.40 54.47 74.00 -19.53 PK Vertical 7313.70 32.65 43.50 11.40 35.50 3.40 54.83 74.00 -19.17 PK Horizontal 7313.91 51.43 43.50 11.40 35.50 3.40 54.83 74.00 -19.17 PK Horizontal 9607.95 40.93 43.60 14.30 39.50 10.20 51.13 74.00 -22.87 PK Vertical 9608.26 40.35 43.60 14.30 39.50 10.20 50.55 74.00 -23.45 PK Horizontal 13299.40 40.04 42.60 15.90 <t< td=""><td>5359.80</td><td>45.52</td><td>44.20</td><td>9.86</td><td>32.00</td><td>-2.34</td><td>43.18</td><td>74.00</td><td>-30.82</td><td>PK</td><td>Vertical</td></t<>	5359.80	45.52	44.20	9.86	32.00	-2.34	43.18	74.00	-30.82	PK	Vertical
5359.82 38.21 44.20 9.86 32.00 -2.34 35.87 54.00 -18.13 AV Horizontal 7313.70 51.07 43.50 11.40 35.50 3.40 54.47 74.00 -19.53 PK Vertical 7313.70 32.65 43.50 11.40 35.50 3.40 36.05 54.00 -17.95 AV Vertical 7313.91 51.43 43.50 11.40 35.50 3.40 36.63 54.00 -17.37 AV Horizontal 9607.95 40.93 43.60 14.30 39.50 10.20 51.13 74.00 -22.87 PK Vertical 9607.95 30.25 43.60 14.30 39.50 10.20 51.13 74.00 -22.87 PK Vertical 9608.26 40.35 43.60 14.30 39.50 10.20 40.45 54.00 -13.82 AV Horizontal 13299.40 40.04 42.60 15.90 3	5359.80	36.96	44.20	9.86	32.00	-2.34	34.62	54.00	-19.38	AV	Vertical
7313.70 51.07 43.50 11.40 35.50 3.40 54.47 74.00 -19.53 PK Vertical 7313.70 32.65 43.50 11.40 35.50 3.40 36.05 54.00 -17.95 AV Vertical 7313.91 51.43 43.50 11.40 35.50 3.40 36.63 54.00 -19.17 PK Horizontal 9607.95 40.93 43.60 14.30 39.50 10.20 51.13 74.00 -22.87 PK Vertical 9607.95 30.25 43.60 14.30 39.50 10.20 40.45 54.00 -13.55 AV Vertical 9608.26 40.35 43.60 14.30 39.50 10.20 40.18 54.00 -13.55 AV Vertical 13299.40 40.04 42.60 15.90 38.90 12.20 52.24 74.00 -21.76 PK Vertical 13299.32 40.42 42.60 15.90 38.	5359.82	45.39	44.20	9.86	32.00	-2.34	43.05	74.00	-30.95	PK	Horizontal
7313.70 32.65 43.50 11.40 35.50 3.40 36.05 54.00 -17.95 AV Vertical 7313.91 51.43 43.50 11.40 35.50 3.40 54.83 74.00 -19.17 PK Horizontal 7313.91 33.23 43.50 11.40 35.50 3.40 36.63 54.00 -17.37 AV Horizontal 9607.95 40.93 43.60 14.30 39.50 10.20 51.13 74.00 -22.87 PK Vertical 9607.95 30.25 43.60 14.30 39.50 10.20 40.45 54.00 -13.55 AV Vertical 9608.26 29.98 43.60 14.30 39.50 10.20 40.18 54.00 -13.82 AV Horizontal 13299.40 40.04 42.60 15.90 38.90 12.20 52.24 74.00 -21.76 PK Vertical 13299.32 40.42 42.60 15.90 <td< td=""><td>5359.82</td><td>38.21</td><td>44.20</td><td>9.86</td><td>32.00</td><td>-2.34</td><td>35.87</td><td>54.00</td><td>-18.13</td><td>AV</td><td>Horizontal</td></td<>	5359.82	38.21	44.20	9.86	32.00	-2.34	35.87	54.00	-18.13	AV	Horizontal
7313.91 51.43 43.50 11.40 35.50 3.40 54.83 74.00 -19.17 PK Horizontal 7313.91 33.23 43.50 11.40 35.50 3.40 36.63 54.00 -17.37 AV Horizontal 9607.95 40.93 43.60 14.30 39.50 10.20 51.13 74.00 -22.87 PK Vertical 9607.95 30.25 43.60 14.30 39.50 10.20 50.55 74.00 -23.45 PK Horizontal 9608.26 40.35 43.60 14.30 39.50 10.20 50.55 74.00 -23.45 PK Horizontal 13299.40 40.04 42.60 15.90 38.90 12.20 52.24 74.00 -21.76 PK Vertical 13299.32 40.42 42.60 15.90 38.90 12.20 40.74 54.00 -13.26 AV Vertical 15999.32 29.30 42.60 15.90	7313.70	51.07	43.50	11.40	35.50	3.40	54.47	74.00	-19.53	PK	Vertical
7313.91 33.23 43.50 11.40 35.50 3.40 36.63 54.00 -17.37 AV Horizontal 9607.95 40.93 43.60 14.30 39.50 10.20 51.13 74.00 -22.87 PK Vertical 9607.95 30.25 43.60 14.30 39.50 10.20 50.55 74.00 -23.45 PK Horizontal 9608.26 40.35 43.60 14.30 39.50 10.20 50.55 74.00 -23.45 PK Horizontal 9608.26 29.98 43.60 14.30 39.50 10.20 40.18 54.00 -13.82 AV Horizontal 13299.40 40.04 42.60 15.90 38.90 12.20 52.24 74.00 -21.76 PK Vertical 13299.32 40.42 42.60 15.90 38.90 12.20 52.62 74.00 -21.38 Pk Horizontal 15999.86 40.74 42.60 15.90	7313.70	32.65	43.50	11.40	35.50	3.40	36.05	54.00	-17.95	AV	Vertical
9607.95	7313.91	51.43	43.50	11.40	35.50	3.40	54.83	74.00	-19.17	PK	Horizontal
9607.95 30.25 43.60 14.30 39.50 10.20 40.45 54.00 -13.55 AV Vertical 9608.26 40.35 43.60 14.30 39.50 10.20 50.55 74.00 -23.45 PK Horizontal 9608.26 29.98 43.60 14.30 39.50 10.20 40.18 54.00 -13.82 AV Horizontal 13299.40 40.04 42.60 15.90 38.90 12.20 52.24 74.00 -21.76 PK Vertical 13299.40 28.54 42.60 15.90 38.90 12.20 40.74 54.00 -13.26 AV Vertical 13299.32 40.42 42.60 15.90 38.90 12.20 52.62 74.00 -21.38 Pk Horizontal 13299.32 29.30 42.60 15.90 38.90 12.20 52.62 74.00 -21.38 Pk Horizontal 13299.86 40.74 42.70 18.00 37.10 12.40 53.14 74.00 -20.86 PK Vertical 15999.86 28.64 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 15999.54 29.89 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 15999.54 29.89 42.70 18.00 37.10 12.40 42.29 54.00 -11.71 AV Horizontal 17997.72 30.80 42.70 19.40 46.50 23.20 54.00 74.00 -20.00 PK Vertical 17997.72 19.31 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal 17997.79 30.75 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal	7313.91	33.23	43.50	11.40	35.50	3.40	36.63	54.00	-17.37	AV	Horizontal
9608.26 40.35 43.60 14.30 39.50 10.20 50.55 74.00 -23.45 PK Horizontal 9608.26 29.98 43.60 14.30 39.50 10.20 40.18 54.00 -13.82 AV Horizontal 13299.40 40.04 42.60 15.90 38.90 12.20 52.24 74.00 -21.76 PK Vertical 13299.32 40.42 42.60 15.90 38.90 12.20 52.62 74.00 -13.26 AV Vertical 13299.32 29.30 42.60 15.90 38.90 12.20 52.62 74.00 -21.38 Pk Horizontal 13299.32 29.30 42.60 15.90 38.90 12.20 52.62 74.00 -21.38 Pk Horizontal 15999.86 40.74 42.70 18.00 37.10 12.40 53.14 74.00 -20.86 PK Vertical 15999.86 28.64 42.70 18.00 37.10 12.40 53.14 74.00 -20.86 PK Vertical 15999.54 39.59 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 15999.54 29.89 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 15997.72 30.80 42.70 19.40 46.50 23.20 54.00 74.00 -20.00 PK Vertical 17997.72 19.31 42.70 19.40 46.50 23.20 54.00 74.00 -20.05 PK Horizontal 17997.79 30.75 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal	9607.95	40.93	43.60	14.30	39.50	10.20	51.13	74.00	-22.87	PK	Vertical
9608.26 29.98 43.60 14.30 39.50 10.20 40.18 54.00 -13.82 AV Horizontal 13299.40 40.04 42.60 15.90 38.90 12.20 52.24 74.00 -21.76 PK Vertical 13299.40 28.54 42.60 15.90 38.90 12.20 40.74 54.00 -13.26 AV Vertical 13299.32 40.42 42.60 15.90 38.90 12.20 52.62 74.00 -21.38 Pk Horizontal 13299.32 29.30 42.60 15.90 38.90 12.20 41.50 54.00 -12.50 AV Horizontal 15999.86 40.74 42.70 18.00 37.10 12.40 53.14 74.00 -20.86 PK Vertical 15999.86 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.54 39.59 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 15999.54 29.89 42.70 18.00 37.10 12.40 42.29 54.00 -11.71 AV Horizontal 17997.72 30.80 42.70 19.40 46.50 23.20 54.00 74.00 -20.00 PK Vertical 17997.72 19.31 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal 17997.79 30.75 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal	9607.95	30.25	43.60	14.30	39.50	10.20	40.45	54.00	-13.55	AV	Vertical
13299.40 40.04 42.60 15.90 38.90 12.20 52.24 74.00 -21.76 PK Vertical 13299.40 28.54 42.60 15.90 38.90 12.20 40.74 54.00 -13.26 AV Vertical 13299.32 40.42 42.60 15.90 38.90 12.20 52.62 74.00 -21.38 Pk Horizontal 13299.32 29.30 42.60 15.90 38.90 12.20 41.50 54.00 -12.50 AV Horizontal 15999.86 40.74 42.70 18.00 37.10 12.40 53.14 74.00 -20.86 PK Vertical 15999.86 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.54 39.59 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 17997.72 30.80 42.70 18.00	9608.26	40.35	43.60	14.30	39.50	10.20	50.55	74.00	-23.45	PK	Horizontal
13299.40 28.54 42.60 15.90 38.90 12.20 40.74 54.00 -13.26 AV Vertical 13299.32 40.42 42.60 15.90 38.90 12.20 52.62 74.00 -21.38 Pk Horizontal 13299.32 29.30 42.60 15.90 38.90 12.20 41.50 54.00 -12.50 AV Horizontal 15999.86 40.74 42.70 18.00 37.10 12.40 53.14 74.00 -20.86 PK Vertical 15999.86 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.54 39.59 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 17997.72 30.80 42.70 18.00 37.10 12.40 42.29 54.00 -11.71 AV Horizontal 17997.72 30.80 42.70 19.40	9608.26	29.98	43.60	14.30	39.50	10.20	40.18	54.00	-13.82	AV	Horizontal
13299.32 40.42 42.60 15.90 38.90 12.20 52.62 74.00 -21.38 Pk Horizontal 13299.32 29.30 42.60 15.90 38.90 12.20 41.50 54.00 -12.50 AV Horizontal 15999.86 40.74 42.70 18.00 37.10 12.40 53.14 74.00 -20.86 PK Vertical 15999.86 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.54 39.59 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 15999.54 29.89 42.70 18.00 37.10 12.40 42.29 54.00 -11.71 AV Horizontal 17997.72 30.80 42.70 19.40 46.50 23.20 54.00 74.00 -20.00 PK Vertical 17997.79 30.75 42.70 19.40	13299.40	40.04	42.60	15.90	38.90	12.20	52.24	74.00	-21.76	PK	Vertical
13299.32 29.30 42.60 15.90 38.90 12.20 41.50 54.00 -12.50 AV Horizontal 15999.86 40.74 42.70 18.00 37.10 12.40 53.14 74.00 -20.86 PK Vertical 15999.86 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.54 39.59 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 15999.54 29.89 42.70 18.00 37.10 12.40 42.29 54.00 -11.71 AV Horizontal 17997.72 30.80 42.70 19.40 46.50 23.20 54.00 74.00 -20.00 PK Vertical 17997.72 19.31 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal 17997.79 30.75 42.70 19.40	13299.40	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
15999.86 40.74 42.70 18.00 37.10 12.40 53.14 74.00 -20.86 PK Vertical 15999.86 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.54 39.59 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 15999.54 29.89 42.70 18.00 37.10 12.40 42.29 54.00 -11.71 AV Horizontal 17997.72 30.80 42.70 19.40 46.50 23.20 54.00 74.00 -20.00 PK Vertical 17997.72 19.31 42.70 19.40 46.50 23.20 42.51 54.00 -11.49 AV Vertical 17997.79 30.75 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal	13299.32	40.42	42.60	15.90	38.90	12.20	52.62	74.00	-21.38	Pk	Horizontal
15999.86 28.64 42.70 18.00 37.10 12.40 41.04 54.00 -12.96 AV Vertical 15999.54 39.59 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 15999.54 29.89 42.70 18.00 37.10 12.40 42.29 54.00 -11.71 AV Horizontal 17997.72 30.80 42.70 19.40 46.50 23.20 54.00 74.00 -20.00 PK Vertical 17997.72 19.31 42.70 19.40 46.50 23.20 42.51 54.00 -11.49 AV Vertical 17997.79 30.75 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal	13299.32	29.30	42.60	15.90	38.90	12.20	41.50	54.00	-12.50	AV	Horizontal
15999.54 39.59 42.70 18.00 37.10 12.40 51.99 74.00 -22.01 PK Horizontal 15999.54 29.89 42.70 18.00 37.10 12.40 42.29 54.00 -11.71 AV Horizontal 17997.72 30.80 42.70 19.40 46.50 23.20 54.00 74.00 -20.00 PK Vertical 17997.72 19.31 42.70 19.40 46.50 23.20 42.51 54.00 -11.49 AV Vertical 17997.79 30.75 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal	15999.86	40.74	42.70	18.00	37.10	12.40	53.14	74.00	-20.86	PK	Vertical
15999.54 29.89 42.70 18.00 37.10 12.40 42.29 54.00 -11.71 AV Horizontal 17997.72 30.80 42.70 19.40 46.50 23.20 54.00 74.00 -20.00 PK Vertical 17997.72 19.31 42.70 19.40 46.50 23.20 42.51 54.00 -11.49 AV Vertical 17997.79 30.75 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal	15999.86	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
17997.72 30.80 42.70 19.40 46.50 23.20 54.00 74.00 -20.00 PK Vertical 17997.72 19.31 42.70 19.40 46.50 23.20 42.51 54.00 -11.49 AV Vertical 17997.79 30.75 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal	15999.54	39.59	42.70	18.00	37.10	12.40	51.99	74.00	-22.01	PK	Horizontal
17997.72 19.31 42.70 19.40 46.50 23.20 42.51 54.00 -11.49 AV Vertical 17997.79 30.75 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal	15999.54	29.89	42.70	18.00	37.10	12.40	42.29	54.00	-11.71	AV	Horizontal
17997.79 30.75 42.70 19.40 46.50 23.20 53.95 74.00 -20.05 PK Horizontal	17997.72	30.80	42.70	19.40	46.50	23.20	54.00	74.00	-20.00	PK	Vertical
	17997.72	19.31	42.70	19.40	46.50	23.20	42.51	54.00	-11.49	AV	Vertical
	17997.79	30.75	42.70	19.40	46.50	23.20	53.95	74.00	-20.05	PK	Horizontal
1/997.79 18.95 42.70 19.40 46.50 23.20 42.15 54.00 -11.85 AV Horizontal	17997.79	18.95	42.70	19.40	46.50	23.20	42.15	54.00	-11.85	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)										
3264.78	48.94	44.70	6.70	28.20	-9.80	39.14	74.00	-34.86	PK	Vertical	
3264.78	39.17	44.70	6.70	28.20	-9.80	29.37	54.00	-24.63	AV	Vertical	
3264.79	49.13	44.70	6.70	28.20	-9.80	39.33	74.00	-34.67	PK	Horizontal	
3264.79	39.31	44.70	6.70	28.20	-9.80	29.51	54.00	-24.49	AV	Horizontal	
4960.32	58.51	44.20	9.04	31.60	-3.56	54.95	74.00	-19.05	PK	Vertical	
4960.32	38.35	44.20	9.04	31.60	-3.56	34.79	54.00	-19.21	AV	Vertical	
4960.33	59.59	44.20	9.04	31.60	-3.56	56.03	74.00	-17.97	PK	Horizontal	
4960.33	38.41	44.20	9.04	31.60	-3.56	34.85	54.00	-19.15	AV	Horizontal	
5359.61	45.53	44.20	9.86	32.00	-2.34	43.19	74.00	-30.81	PK	Vertical	
5359.61	37.60	44.20	9.86	32.00	-2.34	35.26	54.00	-18.74	AV	Vertical	
5359.75	45.32	44.20	9.86	32.00	-2.34	42.98	74.00	-31.02	PK	Horizontal	
5359.75	38.26	44.20	9.86	32.00	-2.34	35.92	54.00	-18.08	AV	Horizontal	
7439.96	51.76	43.50	11.40	35.50	3.40	55.16	74.00	-18.84	PK	Vertical	
7439.96	32.75	43.50	11.40	35.50	3.40	36.15	54.00	-17.85	AV	Vertical	
7439.80	51.92	43.50	11.40	35.50	3.40	55.32	74.00	-18.68	PK	Horizontal	
7439.80	33.23	43.50	11.40	35.50	3.40	36.63	54.00	-17.37	AV	Horizontal	
9919.90	40.34	43.60	14.30	39.50	10.20	50.54	74.00	-23.46	PK	Vertical	
9919.90	29.82	43.60	14.30	39.50	10.20	40.02	54.00	-13.98	AV	Vertical	
9919.98	39.99	43.60	14.30	39.50	10.20	50.19	74.00	-23.81	PK	Horizontal	
9919.98	30.28	43.60	14.30	39.50	10.20	40.48	54.00	-13.52	AV	Horizontal	
13299.27	40.98	42.70	18.00	37.10	12.40	53.38	74.00	-20.62	PK	Vertical	
13299.27	28.54	42.70	18.00	37.10	12.40	40.94	54.00	-13.06	AV	Vertical	
13299.39	40.65	42.70	18.00	37.10	12.40	53.05	74.00	-20.95	PK	Horizontal	
13299.39	29.45	42.70	18.00	37.10	12.40	41.85	54.00	-12.15	AV	Horizontal	
17997.85	30.83	42.70	19.40	46.50	23.20	54.03	74.00	-19.97	PK	Vertical	
17997.85	18.74	42.70	19.40	46.50	23.20	41.94	54.00	-12.06	AV	Vertical	
17997.65	30.52	42.70	19.40	46.50	23.20	53.72	74.00	-20.28	PK	Horizontal	
17997.65	18.69	42.70	19.40	46.50	23.20	41.89	54.00	-12.11	AV	Horizontal	

Note:

1) 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	68.41	43.80	4.91	25.90	-12.99	55.42	74	-18.58	PK	Vertical
2400.00	53.46	43.80	4.91	25.90	-12.99	40.47	54	-13.53	AV	Vertical
2400.00	69.12	43.80	4.91	25.90	-12.99	56.13	74	-17.87	PK	Horizontal
2400.00	52.68	43.80	4.91	25.90	-12.99	39.69	54	-14.31	AV	Horizontal
2483.50	70.33	43.80	5.12	25.90	-12.78	57.55	74	-16.45	PK	Vertical
2483.50	52.63	43.80	5.12	25.90	-12.78	39.85	54	-14.15	AV	Vertical
2483.50	69.18	43.80	5.12	25.90	-12.78	56.40	74	-17.60	PK	Horizontal
2483.50	52.94	43.80	5.12	25.90	-12.78	40.16	54	-13.84	AV	Horizontal

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

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

Hopping 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
			1		GFSK					
2400.00	68.37	43.80	4.91	25.90	-12.99	55.38	74	-18.62	PK	Vertical
2400.00	53.56	43.80	4.91	25.90	-12.99	40.57	54	-13.43	AV	Vertical
2400.00	68.38	43.80	4.91	25.90	-12.99	55.39	74	-18.61	PK	Horizontal
2400.00	53.13	43.80	4.91	25.90	-12.99	40.14	54	-13.86	AV	Horizontal
2483.50	69.13	43.80	5.12	25.90	-12.78	56.35	74	-17.65	PK	Vertical
2483.50	53.12	43.80	5.12	25.90	-12.78	40.34	54	-13.66	AV	Vertical
2483.50	69.52	43.80	5.12	25.90	-12.78	56.74	74	-17.26	PK	Horizontal
2483.50	52.16	43.80	5.12	25.90	-12.78	39.38	54	-14.62	AV	Horizontal
2483.50	70.33	43.80	5.12	25.90	-12.78	57.55	74	-16.45	PK	Horizontal
2483.50	52.36	43.80	5.12	25.90	-12.78	39.58	54	-14.42	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

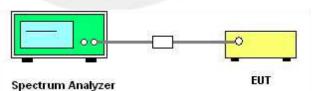
Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Ctart/Ctan Fraguency	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.

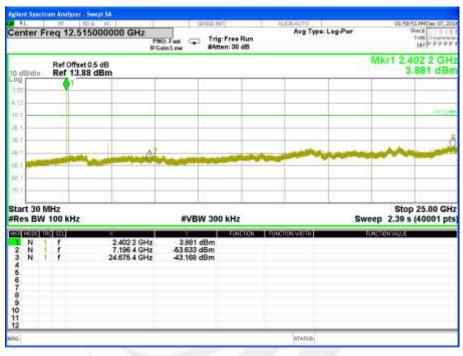


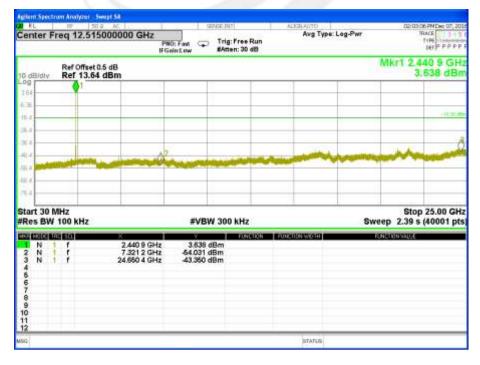


4.5 TEST RESULTS

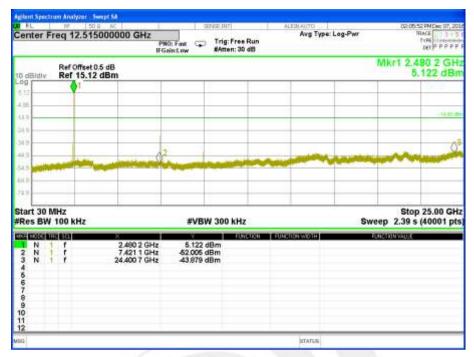
Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	GFSK(1Mbps)-00/39/78 CH		

00 CH





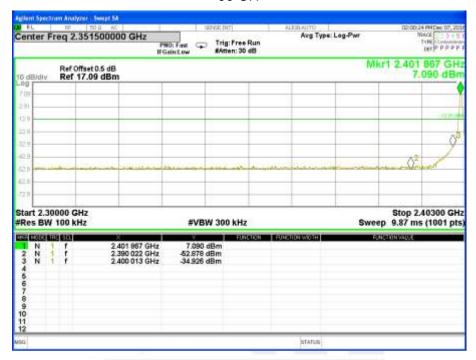






For Band edge

00 CH







For Hopping Band edge

00 CH







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.



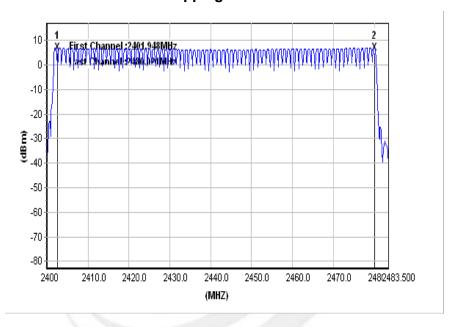
5.5 TEST RESULTS

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

Number of Hopping Channel

79

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.



6.5 TEST RESULTS

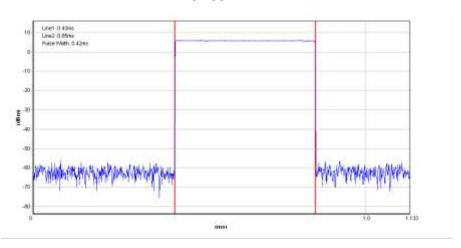
Temperature :	25℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	GFSK(1Mbps)-DH1/DH3/DH5		

Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)
DH1	2441 MHz	0.420	0.134	0.4
DH3	2441 MHz	1.680	0.269	0.4
DH5	2441 MHz	2.930	0.313	0.4

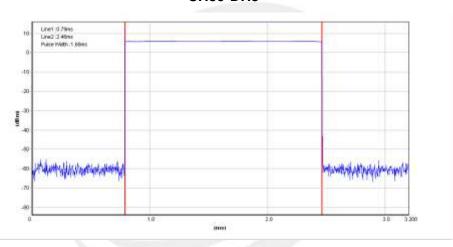




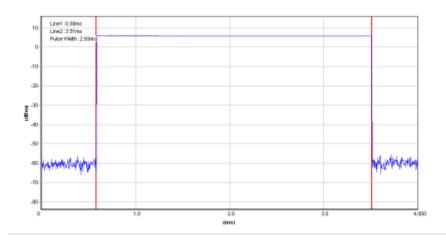
CH39-DH1



CH39-DH3



CH39-DH5





7. HOPPING CHANNEL SEPARATION MEASUREMEN

7.1 APPLIED PROCEDURES / LIMIT

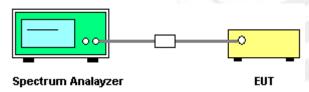
Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 20 dB bandwidth of the hopping channel, whichever is greater.

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	1.000	0.704	Complies
2441 MHz	1.005	0.704	Complies
2480 MHz	1.000	0.704	Complies

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

CH00 -1Mbps





CH39 -1Mbps



CH78 -1Mbps





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	0.704	PASS
2441 MHz	0.704	PASS
2480 MHz	0.704	PASS

CH00 -1Mbps





CH39 -1Mbps



CH78 -1Mbps





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	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

EUT		Power Sensor
	l	

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 Channe	Frequency	Conducted	Output Power	LIMIT
rest Charme	(MHz)	Peak (dBm)	AVG (dBm)	dBm
CH00	2402	8.12	4.01	30
CH39	2441	8.23	4.12	30
CH78	2480	8.56	4.45	30

Note: the channel separation > 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 Dipole Antenna. It comply with the standard requirement.





APPENDIX-PHOTOS OF TEST SETUP

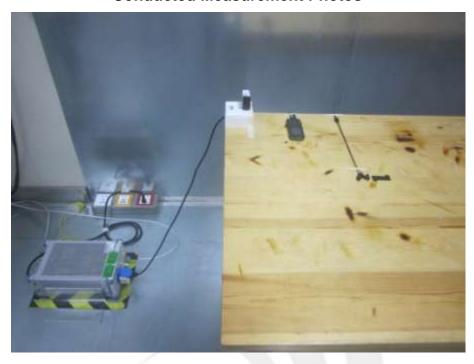








Conducted Measurement Photos



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