

RADIO TESTREPORT

Report No: STS1703096F02

Issued for

SD MOBILE SAS

CRA 34#43-110 LC B C 01 BARRANQUILLA , COLOMBIA.

Product Name:	cellphone
Brand Name:	7 Step
Model Name:	GENESIS SS001
Series Model:	N/A
FCC ID:	2ALHPGENESISSS001
Test Standard:	FCC Part 15.247

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BZT Testing Technology Co., Ltd
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TEST RESULT CERTIFICATION**Applicant's name**.....: SD MOBILE SAS

Address: CRA 34#43-110 LC B C 01 BARRANQUILLA , COLOMBIA.

Manufacture's Name: Shenzhen Kenxinda Technology Co.,Ltd

Address: 18th Floor Fuchun Orient Buliding, No.7006 Shennan AV, Futian District, Shenzhen,China

Product description

Product name: cellphone

Brand name.....: 7 Step

Model and/or type reference .: GENESIS SS001

Series Model: N/A

Standards.....: FCC Part15.247

Test procedure.....: ANSI C63.10-2013

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

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Date of Test.....:

Date (s) of performance of tests.: 14 Mar . 2017 ~ 20 Mar . 2017

Date of Issue: 21 Mar . 2017

Test Result: Pass

Testing Engineer :



(Leo li)

Technical Manager :



(Tony liu)

Authorized Signatory :



(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	21 Mar . 2017	STS1703096F02	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: 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(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

1.1 TEST FACTORY

BZT Testing Technology Co., Ltd
 Add. : 1/F, Building E, Fenda Science Park, Sanwei Community,
 Xixiang Street, Bao'an District, Shenzhen P.R. China.
 FCC Registration No.: 701733

1.2 MEASUREMENT UNCERTAINTY

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

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

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	cellphone
Trade Name	7 Step
Model Name	GENESIS SS001
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, 50-60 Hz Output: DC 5.0V, 350mA
Battery	Rated Voltage: 3.7V Capacity: 800mAh
Hardware version number	K7740-MB-V3.0
Software version number	V1.01
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	7 Step	GENESIS SS001	DIPOLE	N/A	-1	BT Antenna

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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 been tested for all available 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

Test Case	
AC Conducted Emission	Mode 4 : Keeping BT TX

2.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

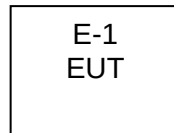
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

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

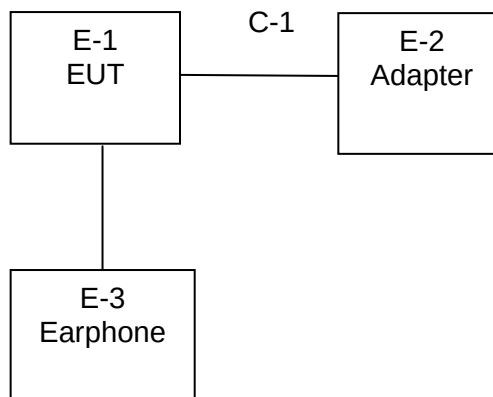
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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



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	cellphone	7 Step	GENESIS SS001	N/A	EUT
E-2	Adapter	7 Step	HWT-2.5W-5050G	N/A	
E-3	Earphone				

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable shielded line (Charging)	NO	100cm	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.6 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	2019.03.05
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-96286/96287	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	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 Emission limit (dBuV)	
	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.

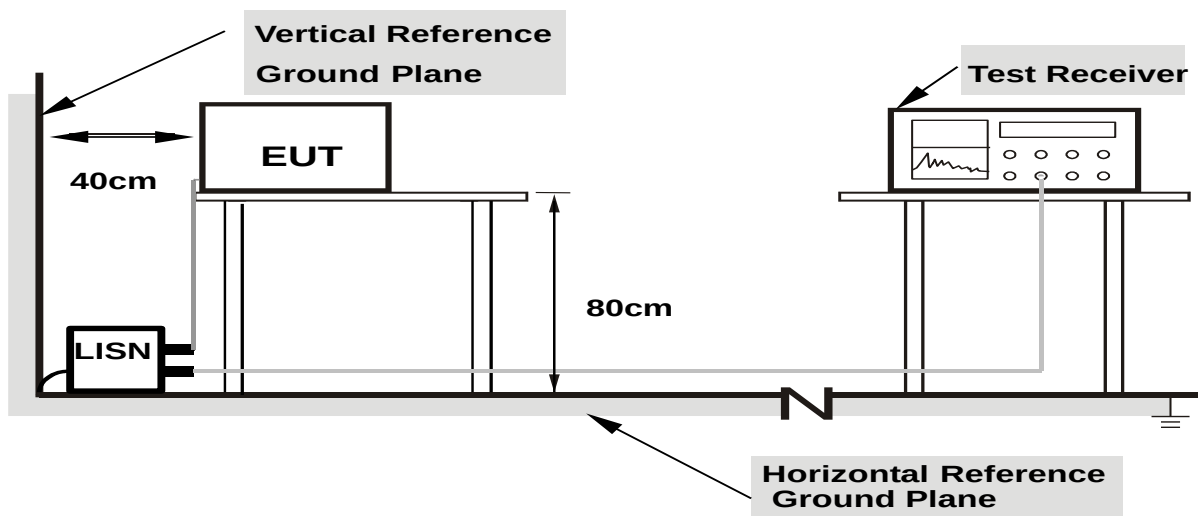
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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

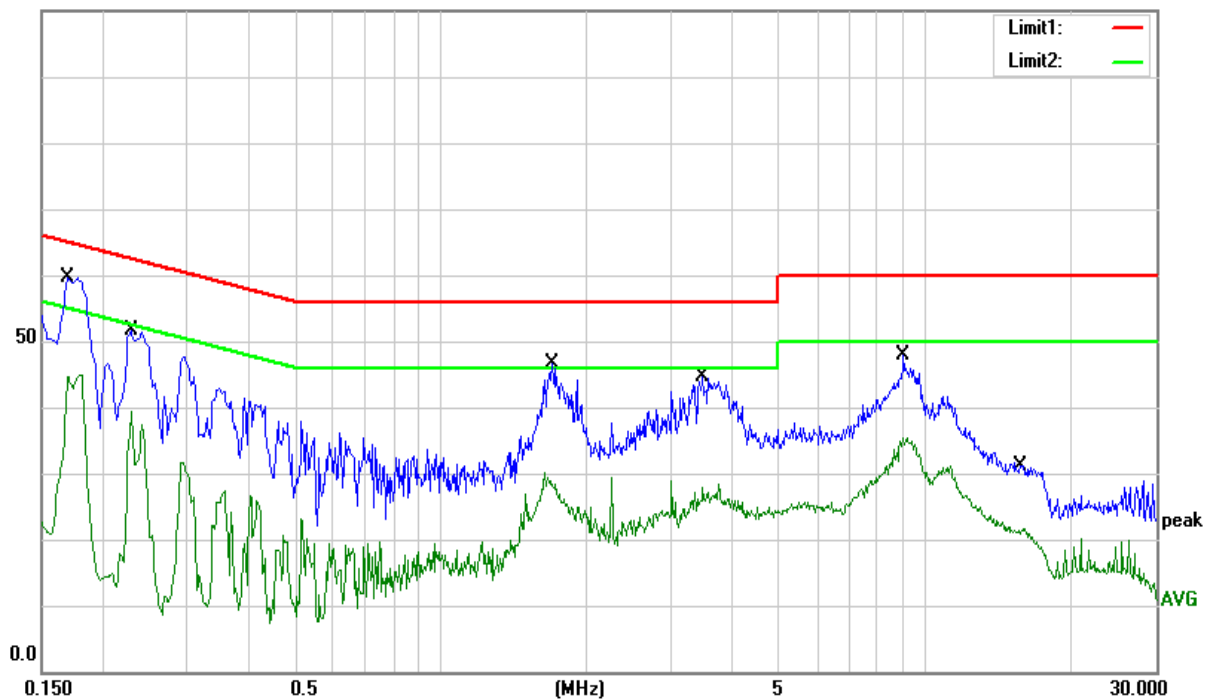
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4

Frequency (MHz)	Reading (dBUV)	Correct Factor(dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
0.1700	50.44	9.23	59.67	64.96	-5.29	QP
0.1700	35.44	9.23	44.67	54.96	-10.29	AVG
0.2300	42.35	9.20	51.55	62.45	-10.90	QP
0.2300	29.38	9.20	38.58	52.45	-13.87	AVG
1.7020	37.43	9.22	46.65	56.00	-9.35	QP
1.7020	18.92	9.22	28.14	46.00	-17.86	AVG
3.4780	35.34	9.26	44.60	56.00	-11.40	QP
3.4780	18.49	9.26	27.75	46.00	-18.25	AVG
9.0180	38.44	9.42	47.86	60.00	-12.14	QP
9.0180	26.00	9.42	35.42	50.00	-14.58	AVG
15.7660	21.72	9.52	31.24	60.00	-28.76	QP
15.7660	11.37	9.52	20.89	50.00	-29.11	AVG

Remark:

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

100.0 dBUV

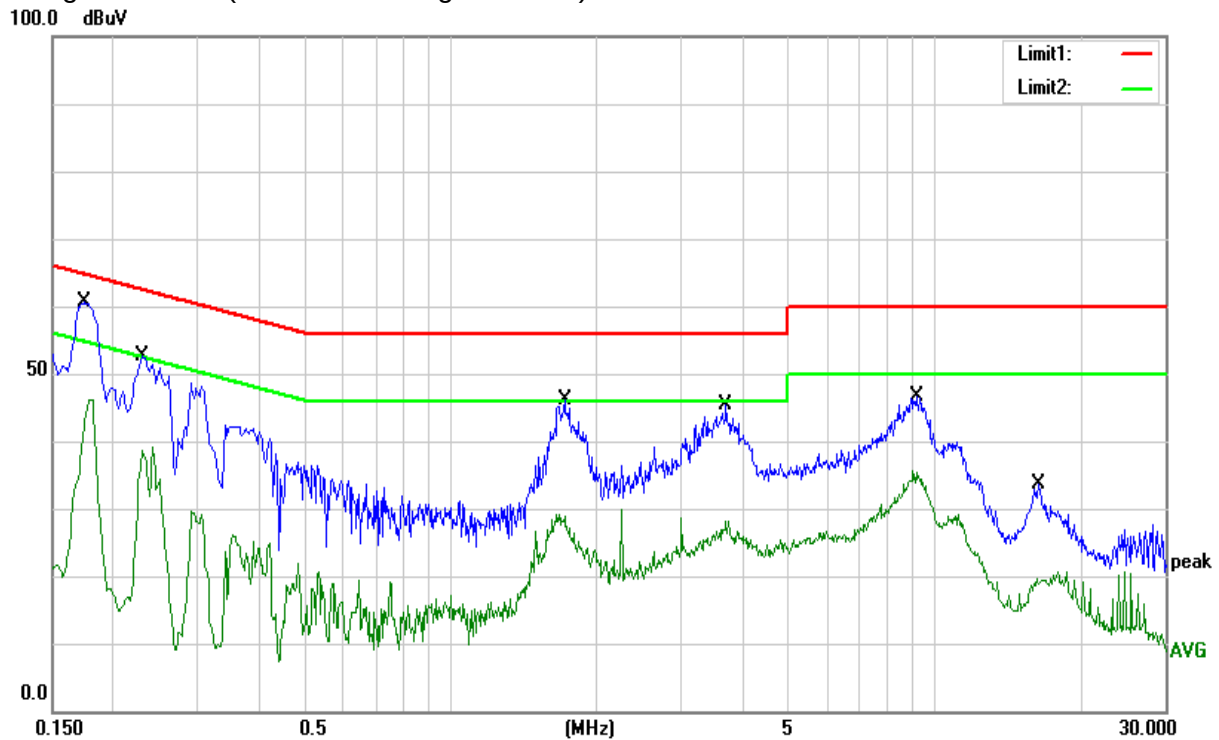


Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1740	51.29	9.23	60.52	64.77	-4.25	QP
0.1740	33.90	9.23	43.13	54.77	-11.64	AVG
0.2300	43.37	9.20	52.57	62.45	-9.88	QP
0.2300	29.23	9.20	38.43	52.45	-14.02	AVG
1.7220	36.81	9.22	46.03	56.00	-9.97	QP
1.7220	18.08	9.22	27.30	46.00	-18.70	AVG
3.7180	36.14	9.26	45.40	56.00	-10.60	QP
3.7180	18.91	9.26	28.17	46.00	-17.83	AVG
9.1940	37.09	9.45	46.54	60.00	-13.46	QP
9.1940	24.81	9.45	34.26	50.00	-15.74	AVG
16.4540	23.94	9.60	33.54	60.00	-26.46	QP
16.4540	9.32	9.60	18.92	50.00	-31.08	AVG

Remark:

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



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)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz /10 Hz

For Band edge

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

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

- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- 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.
- 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

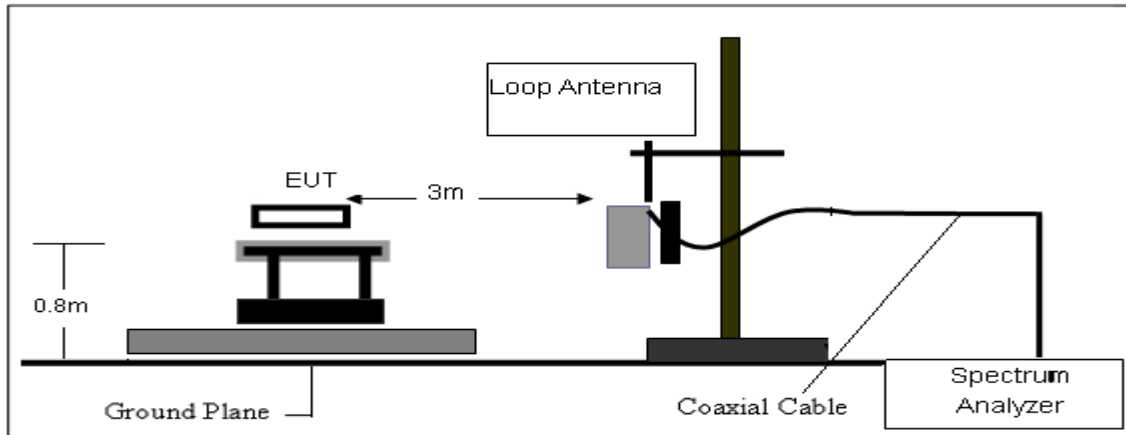
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

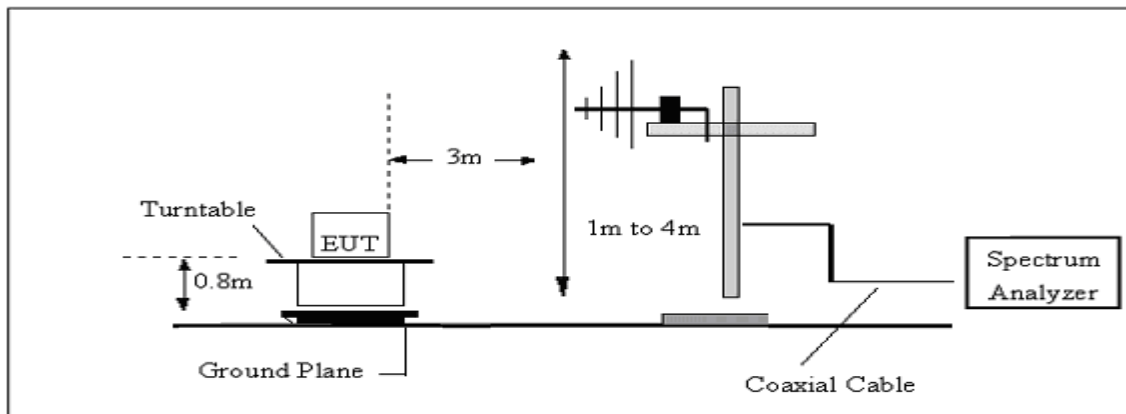
No deviation

3.2.4 TESTSETUP

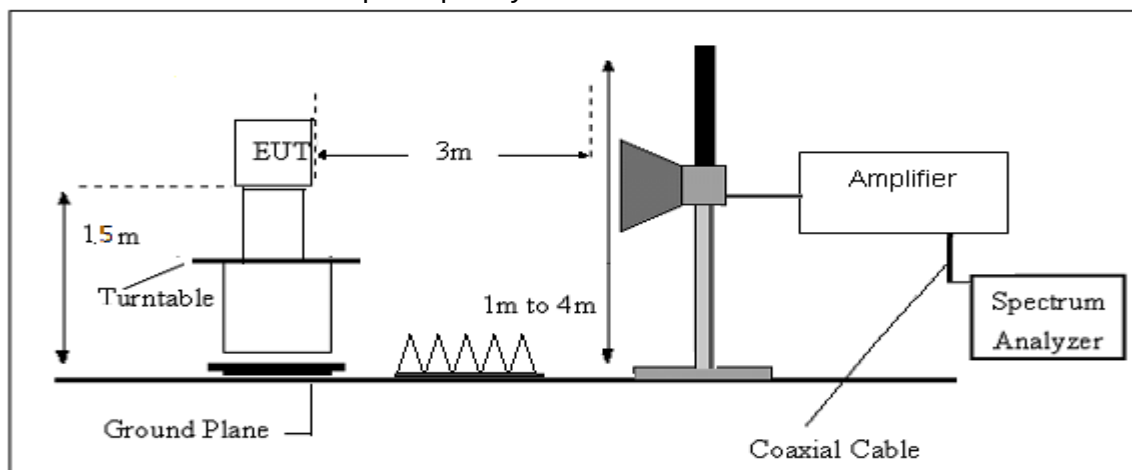
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Mode:	TX Mode
Test Voltage:	DC 3.7V from battery		

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

Note:

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

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

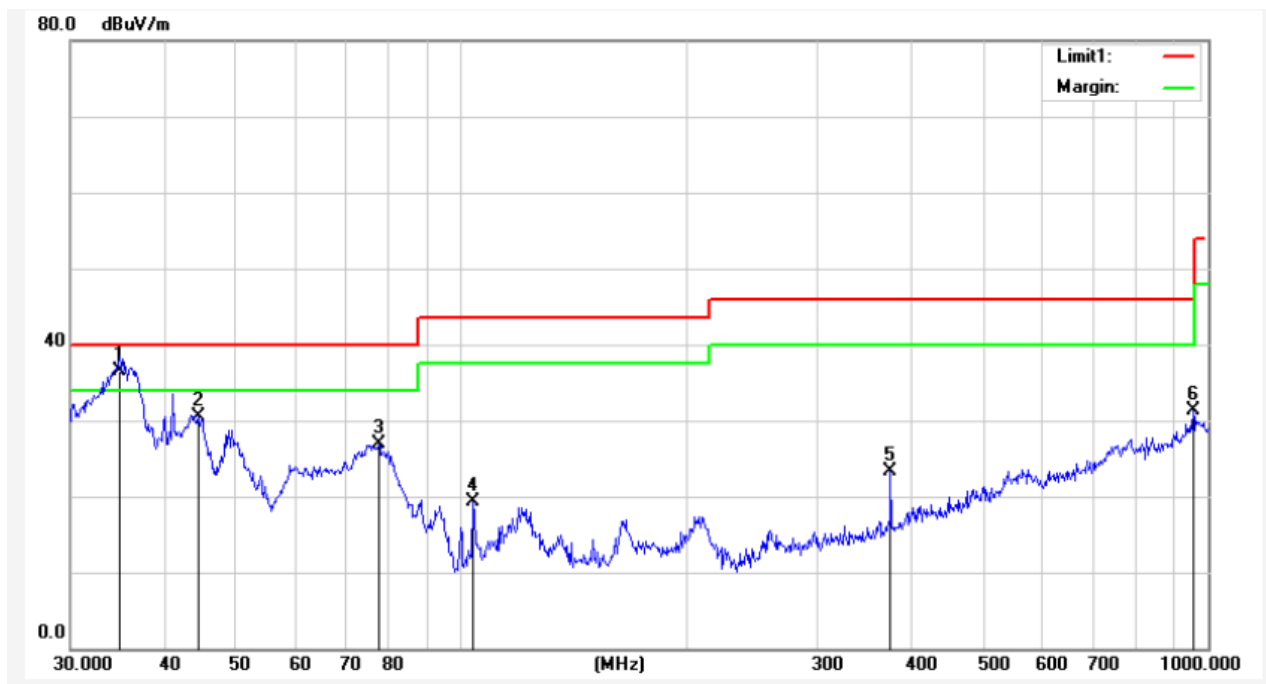
(30MHz-1000MHz)

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	DC 3.7V from battery	Test Mode:	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)	
31.3992	45.72	-11.91	33.81	40.00	-6.19	QP
43.2017	49.03	-17.97	31.06	40.00	-8.94	QP
85.8984	43.11	-21.22	21.89	40.00	-18.11	QP
99.5281	47.93	-19.23	28.70	43.50	-14.80	QP
451.1350	30.82	-10.46	20.36	46.00	-25.64	QP
776.8778	30.67	-3.18	27.49	46.00	-18.51	QP

Remark:

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

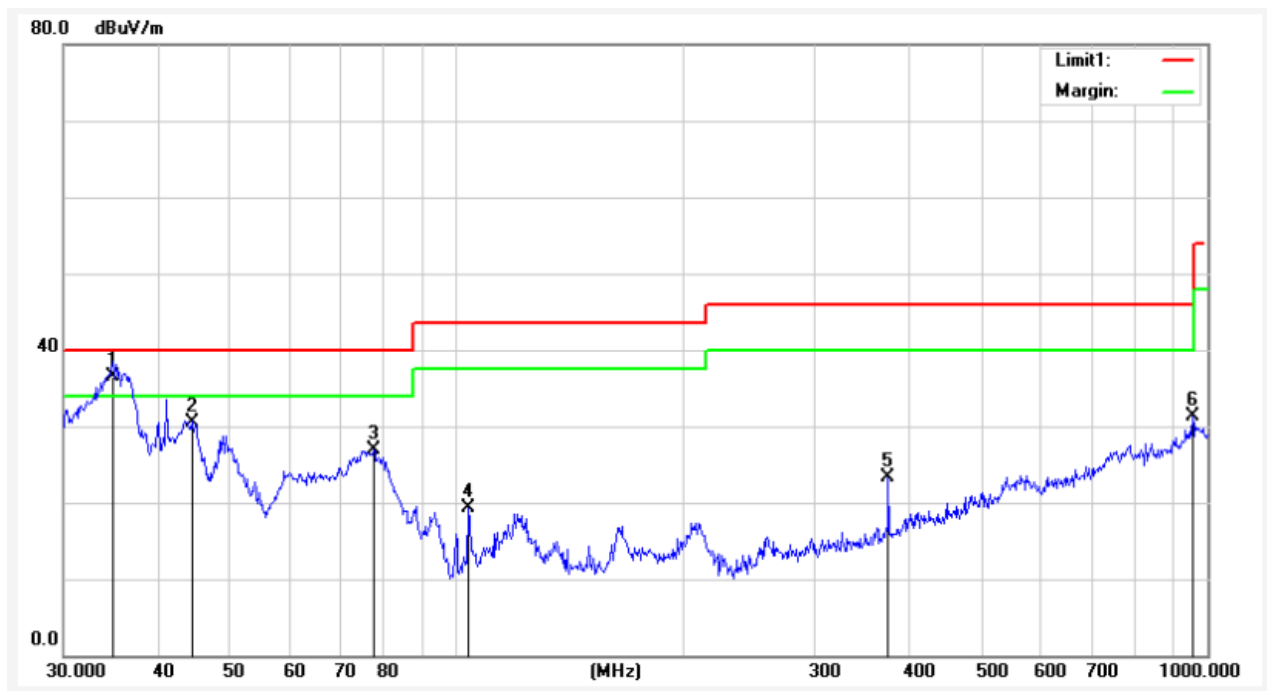


Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	DC 3.7V from battery	Test Mode:	Mode 1/2/3 (Mode 3-1M worst mode)

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
34.8823	50.26	-13.70	36.56	40.00	-3.44	QP
44.5868	49.13	-18.70	30.43	40.00	-9.57	QP
77.5928	49.88	-23.03	26.85	40.00	-13.15	QP
103.8055	38.16	-18.87	19.29	43.50	-24.21	QP
375.9385	36.11	-12.73	23.38	46.00	-22.62	QP
955.4381	31.63	-0.26	31.37	46.00	-14.63	QP

Remark:

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



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

GFSK Low Channel

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dB)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
Low Channel (2402 MHz)										
3264.86	48.42	44.70	6.70	28.20	-9.80	38.62	74.00	-35.38	PK	Vertical
3264.86	39.81	44.70	6.70	28.20	-9.80	30.01	54.00	-23.99	AV	Vertical
3264.66	48.15	44.70	6.70	28.20	-9.80	38.35	74.00	-35.65	PK	Horizontal
3264.66	38.88	44.70	6.70	28.20	-9.80	29.08	54.00	-24.92	AV	Horizontal
4804.58	58.50	44.20	9.04	31.60	-3.56	54.94	74.00	-19.06	PK	Vertical
4804.58	39.21	44.20	9.04	31.60	-3.56	35.65	54.00	-18.35	AV	Vertical
4804.41	59.01	44.20	9.04	31.60	-3.56	55.45	74.00	-18.55	PK	Horizontal
4804.41	39.02	44.20	9.04	31.60	-3.56	35.46	54.00	-18.54	AV	Horizontal
5359.68	45.18	44.20	9.86	32.00	-2.34	42.84	74.00	-31.16	PK	Vertical
5359.68	37.19	44.20	9.86	32.00	-2.34	34.85	54.00	-19.15	AV	Vertical
5359.78	46.42	44.20	9.86	32.00	-2.34	44.08	74.00	-29.92	PK	Horizontal
5359.78	37.43	44.20	9.86	32.00	-2.34	35.09	54.00	-18.91	AV	Horizontal
7205.94	52.01	43.50	11.40	35.50	3.40	55.41	74.00	-18.59	PK	Vertical
7205.94	32.53	43.50	11.40	35.50	3.40	35.93	54.00	-18.07	AV	Vertical
7205.90	50.95	43.50	11.40	35.50	3.40	54.35	74.00	-19.65	PK	Horizontal
7205.90	33.41	43.50	11.40	35.50	3.40	36.81	54.00	-17.19	AV	Horizontal
11035.85	40.67	43.60	14.30	39.50	10.20	50.87	74.00	-23.13	PK	Vertical
11035.85	30.54	43.60	14.30	39.50	10.20	40.74	54.00	-13.26	AV	Vertical
11036.25	40.26	43.60	14.30	39.50	10.20	50.46	74.00	-23.54	PK	Horizontal
11036.25	30.80	43.60	14.30	39.50	10.20	41.00	54.00	-13.00	AV	Horizontal
13299.40	40.35	42.60	15.90	38.90	12.20	52.55	74.00	-21.45	PK	Vertical
13299.40	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13299.44	40.29	42.60	15.90	38.90	12.20	52.49		#VALUE!	PK	Horizontal
13299.44	29.55	42.60	15.90	38.90	12.20	41.75	54.00	-12.25	AV	Horizontal
15999.83	40.60	42.70	18.00	37.10	12.40	53.00	74.00	-21.00	PK	Vertical
15999.83	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
15999.58	41.03	42.70	18.00	37.10	12.40	53.43	74.00	-20.57	PK	Horizontal
15999.58	30.39	42.70	18.00	37.10	12.40	42.79	54.00	-11.21	AV	Horizontal
17997.88	29.98	42.70	19.40	46.50	23.20	53.18	74.00	-20.82	PK	Vertical
17997.88	19.43	42.70	19.40	46.50	23.20	42.63	54.00	-11.37	AV	Vertical
17997.70	31.22	42.70	19.40	46.50	23.20	54.42	74.00	-19.58	PK	Horizontal
17997.70	18.65	42.70	19.40	46.50	23.20	41.85	54.00	-12.15	AV	Horizontal

GFSK Mid Channel

		Antenna			Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBμV)	(dB)	(dB)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	Comment
Low Channel (2441 MHz)										
3264.71	48.50	44.70	6.70	28.20	-9.80	38.70	74.00	-35.30	PK	Vertical
3264.71	39.70	44.70	6.70	28.20	-9.80	29.90	54.00	-24.10	AV	Vertical
3264.72	47.79	44.70	6.70	28.20	-9.80	37.99	74.00	-36.01	PK	Horizontal
3264.72	37.94	44.70	6.70	28.20	-9.80	28.14	54.00	-25.86	AV	Horizontal
4882.36	58.83	44.20	9.04	31.60	-3.56	55.27	74.00	-18.73	PK	Vertical
4882.36	39.08	44.20	9.04	31.60	-3.56	35.52	54.00	-18.48	AV	Vertical
4882.51	58.90	44.20	9.04	31.60	-3.56	55.34	74.00	-18.66	PK	Horizontal
4882.51	39.47	44.20	9.04	31.60	-3.56	35.91	54.00	-18.09	AV	Horizontal
5359.85	46.11	44.20	9.86	32.00	-2.34	43.77	74.00	-30.23	PK	Vertical
5359.85	37.36	44.20	9.86	32.00	-2.34	35.02	54.00	-18.98	AV	Vertical
5359.72	45.27	44.20	9.86	32.00	-2.34	42.93	74.00	-31.07	PK	Horizontal
5359.72	37.92	44.20	9.86	32.00	-2.34	35.58	54.00	-18.42	AV	Horizontal
7313.93	51.92	43.50	11.40	35.50	3.40	55.32	74.00	-18.68	PK	Vertical
7313.93	33.67	43.50	11.40	35.50	3.40	37.07	54.00	-16.93	AV	Vertical
7313.92	51.08	43.50	11.40	35.50	3.40	54.48	74.00	-19.52	PK	Horizontal
7313.92	32.96	43.50	11.40	35.50	3.40	36.36	54.00	-17.64	AV	Horizontal
9608.00	40.94	43.60	14.30	39.50	10.20	51.14	74.00	-22.86	PK	Vertical
9608.00	30.96	43.60	14.30	39.50	10.20	41.16	54.00	-12.84	AV	Vertical
9608.18	40.76	43.60	14.30	39.50	10.20	50.96	74.00	-23.04	PK	Horizontal
9608.18	30.60	43.60	14.30	39.50	10.20	40.80	54.00	-13.20	AV	Horizontal
13299.33	41.02	42.60	15.90	38.90	12.20	53.22	74.00	-20.78	PK	Vertical
13299.33	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13299.38	40.50	42.60	15.90	38.90	12.20	52.70	74.00	-21.30	PK	Horizontal
13299.38	29.45	42.60	15.90	38.90	12.20	41.65	54.00	-12.35	AV	Horizontal
15999.85	40.78	42.70	18.00	37.10	12.40	53.18	74.00	-20.82	PK	Vertical
15999.85	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
15999.69	40.57	42.70	18.00	37.10	12.40	52.97	74.00	-21.03	PK	Horizontal
15999.69	30.03	42.70	18.00	37.10	12.40	42.43	54.00	-11.57	AV	Horizontal
17997.88	30.84	42.70	19.40	46.50	23.20	54.04	74.00	-19.96	PK	Vertical
17997.88	18.92	42.70	19.40	46.50	23.20	42.12	54.00	-11.88	AV	Vertical
17997.51	30.07	42.70	19.40	46.50	23.20	53.27	74.00	-20.73	PK	Horizontal
17997.51	18.11	42.70	19.40	46.50	23.20	41.31	54.00	-12.69	AV	Horizontal

GFSK High Channel

Antenna Corrected Emission										
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBμV)	(dB)	(dB)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	Comment
Low Channel (2480 MHz)										
3264.70	49.31	44.70	6.70	28.20	-9.80	39.51	74.00	-34.49	PK	Vertical
3264.70	38.27	44.70	6.70	28.20	-9.80	28.47	54.00	-25.53	AV	Vertical
3264.77	48.40	44.70	6.70	28.20	-9.80	38.60	74.00	-35.40	PK	Horizontal
3264.77	38.00	44.70	6.70	28.20	-9.80	28.20	54.00	-25.80	AV	Horizontal
4960.33	59.33	44.20	9.04	31.60	-3.56	55.77	74.00	-18.23	PK	Vertical
4960.33	38.35	44.20	9.04	31.60	-3.56	34.79	54.00	-19.21	AV	Vertical
4960.61	59.02	44.20	9.04	31.60	-3.56	55.46	74.00	-18.54	PK	Horizontal
4960.61	39.07	44.20	9.04	31.60	-3.56	35.51	54.00	-18.49	AV	Horizontal
5359.68	45.53	44.20	9.86	32.00	-2.34	43.19	74.00	-30.81	PK	Vertical
5359.68	37.45	44.20	9.86	32.00	-2.34	35.11	54.00	-18.89	AV	Vertical
5359.82	45.52	44.20	9.86	32.00	-2.34	43.18	74.00	-30.82	PK	Horizontal
5359.82	38.53	44.20	9.86	32.00	-2.34	36.19	54.00	-17.81	AV	Horizontal
7439.87	51.50	43.50	11.40	35.50	3.40	54.90	74.00	-19.10	PK	Vertical
7439.87	33.38	43.50	11.40	35.50	3.40	36.78	54.00	-17.22	AV	Vertical
7439.77	51.22	43.50	11.40	35.50	3.40	54.62	74.00	-19.38	PK	Horizontal
7439.77	32.81	43.50	11.40	35.50	3.40	36.21	54.00	-17.79	AV	Horizontal
9919.75	41.04	43.60	14.30	39.50	10.20	51.24	74.00	-22.76	PK	Vertical
9919.75	30.19	43.60	14.30	39.50	10.20	40.39	54.00	-13.61	AV	Vertical
9920.06	41.02	43.60	14.30	39.50	10.20	51.22	74.00	-22.78	PK	Horizontal
9920.06	30.06	43.60	14.30	39.50	10.20	40.26	54.00	-13.74	AV	Horizontal
13299.20	40.46	42.70	18.00	37.10	12.40	52.86	74.00	-21.14	PK	Vertical
13299.20	28.54	42.70	18.00	37.10	12.40	40.94	54.00	-13.06	AV	Vertical
13299.32	39.68	42.70	18.00	37.10	12.40	52.08	74.00	-21.92	PK	Horizontal
13299.32	29.48	42.70	18.00	37.10	12.40	41.88	54.00	-12.12	AV	Horizontal
17997.70	30.02	42.70	19.40	46.50	23.20	53.22	74.00	-20.78	PK	Vertical
17997.70	19.88	42.70	19.40	46.50	23.20	43.08	54.00	-10.92	AV	Vertical
17997.76	31.08	42.70	19.40	46.50	23.20	54.28	74.00	-19.72	PK	Horizontal
17997.76	17.97	42.70	19.40	46.50	23.20	41.17	54.00	-12.83	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 = reading + Factor

Band edge Requirements

GFSK										
Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
2400.00	67.27	43.80	4.91	25.90	-12.99	54.28	74	-19.72	PK	Vertical
2400.00	54.43	43.80	4.91	25.90	-12.99	41.44	54	-12.56	AV	Vertical
2400.00	68.82	43.80	4.91	25.90	-12.99	55.83	74	-18.17	PK	Horizontal
2400.00	52.75	43.80	4.91	25.90	-12.99	39.76	54	-14.24	AV	Horizontal
2483.50	70.24	43.80	5.12	25.90	-12.78	57.46	74	-16.54	PK	Vertical
2483.50	53.22	43.80	5.12	25.90	-12.78	40.44	54	-13.56	AV	Vertical
2483.50	69.52	43.80	5.12	25.90	-12.78	56.74	74	-17.26	PK	Horizontal
2483.50	52.37	43.80	5.12	25.90	-12.78	39.59	54	-14.41	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

GFSK										
Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
2400.00	67.76	43.80	4.91	25.90	-12.99	54.77	74	-19.23	PK	Vertical
2400.00	54.28	43.80	4.91	25.90	-12.99	41.29	54	-12.71	AV	Vertical
2400.00	68.61	43.80	4.91	25.90	-12.99	55.62	74	-18.38	PK	Horizontal
2400.00	53.06	43.80	4.91	25.90	-12.99	40.07	54	-13.93	AV	Horizontal
2483.50	69.80	43.80	5.12	25.90	-12.78	57.02	74	-16.98	PK	Vertical
2483.50	53.03	43.80	5.12	25.90	-12.78	40.25	54	-13.75	AV	Vertical
2483.50	70.02	43.80	5.12	25.90	-12.78	57.24	74	-16.76	PK	Horizontal
2483.50	53.22	43.80	5.12	25.90	-12.78	40.44	54	-13.56	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.										

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

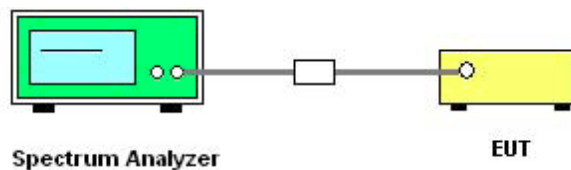
Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2310 – 2404 MHz 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

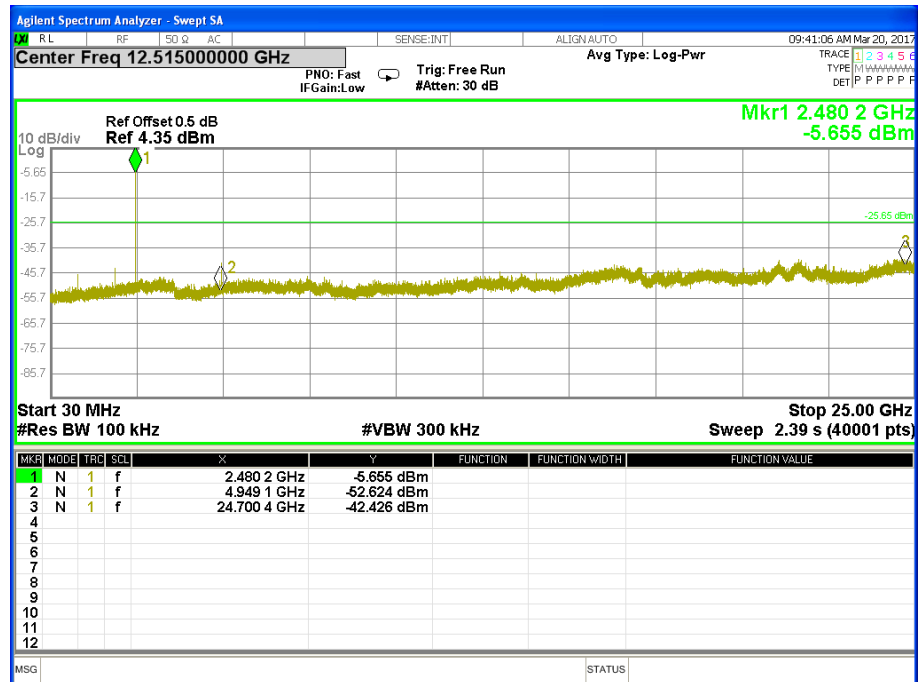


The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set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

4.4 EUT OPERATION CONDITIONS

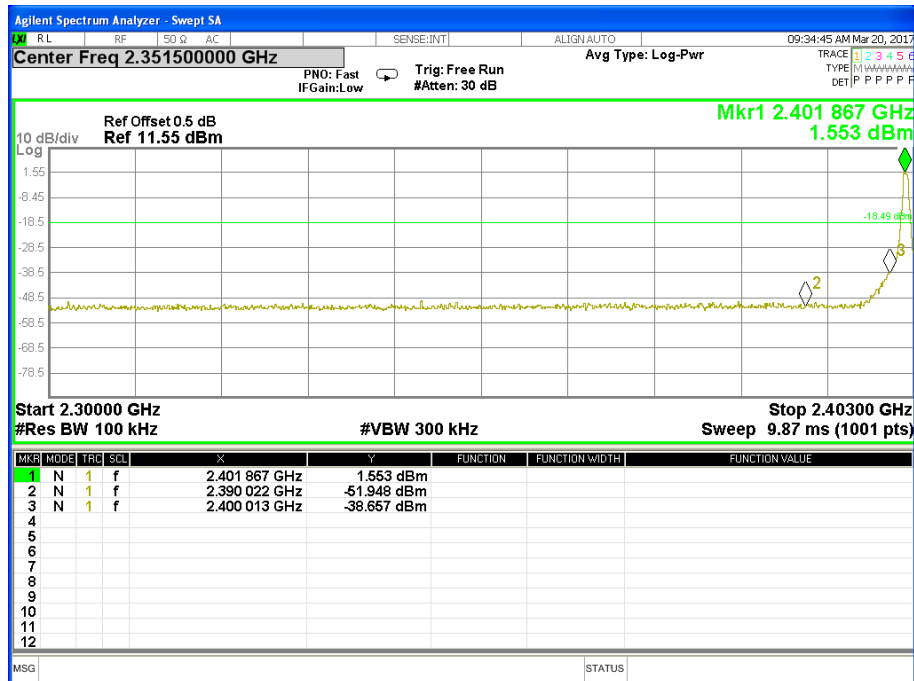
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

78 CH

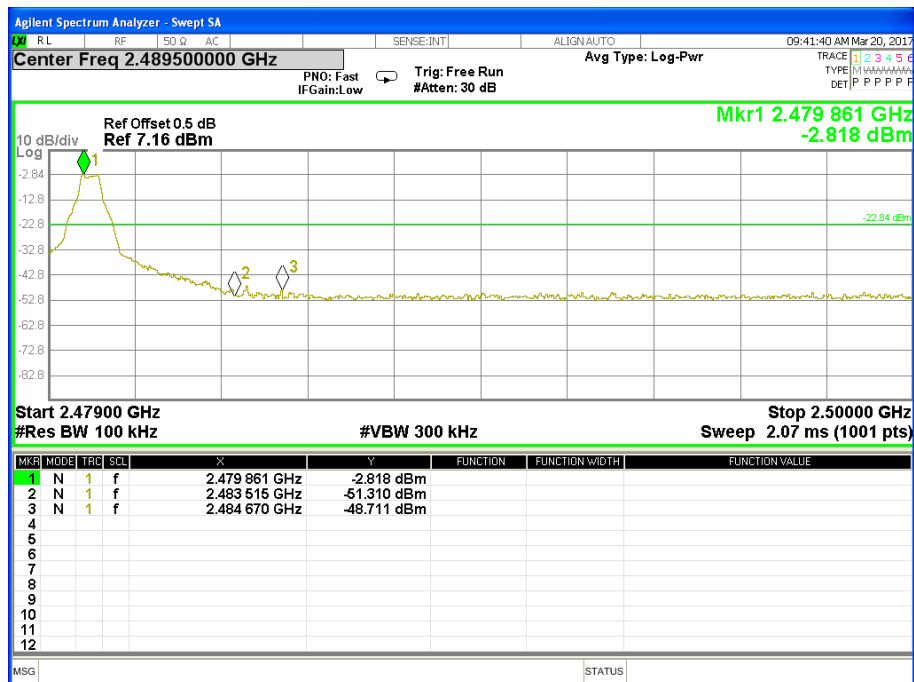


For Band edge

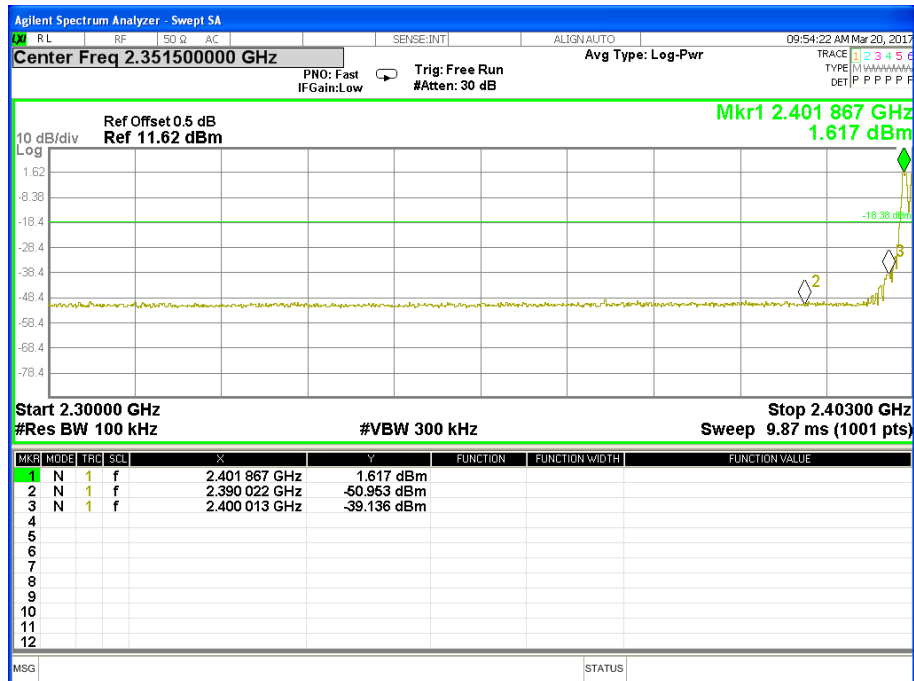
00 CH



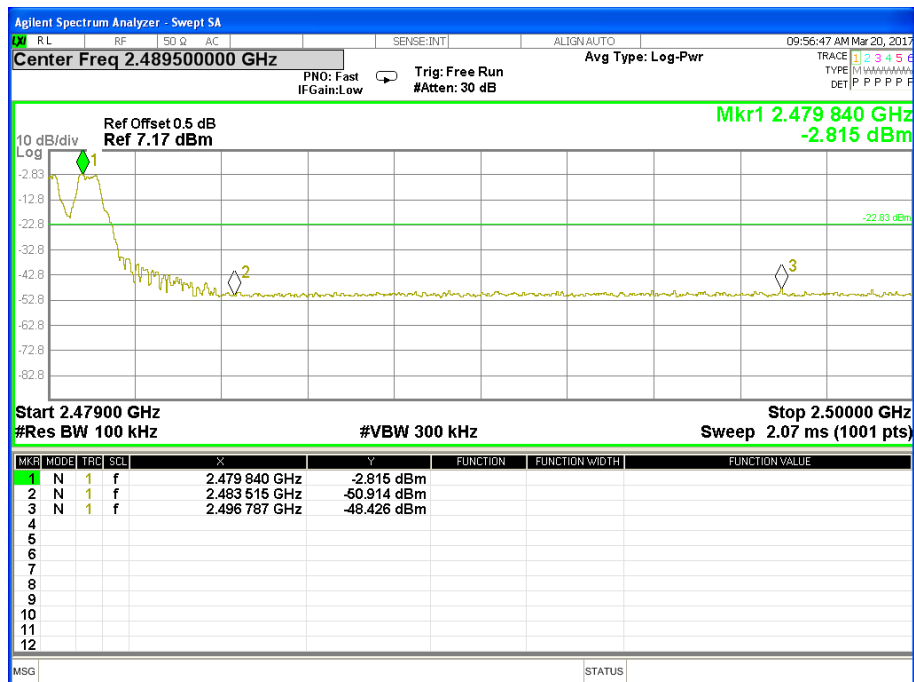
78 CH



00 CH



78 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

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

5.3 TEST SETUP



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.

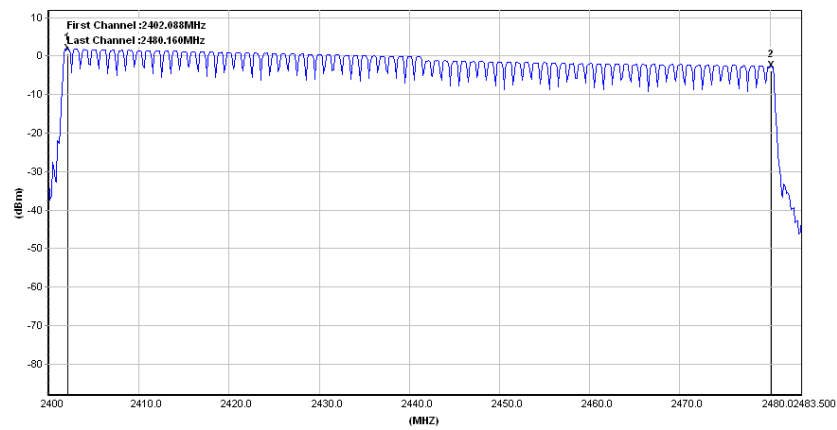
5.5 TEST RESULTS

Temperature :	25°C	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.
- e. Set the center frequency on any frequency would be measure and set the frequency span to 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). So the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ 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). So the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ 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



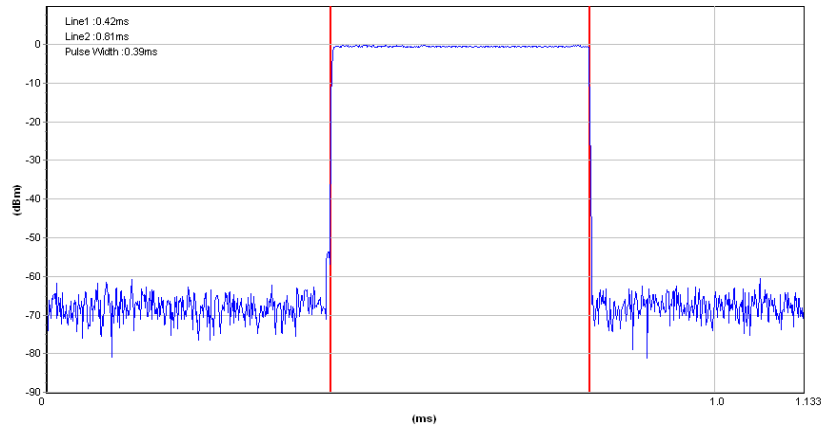
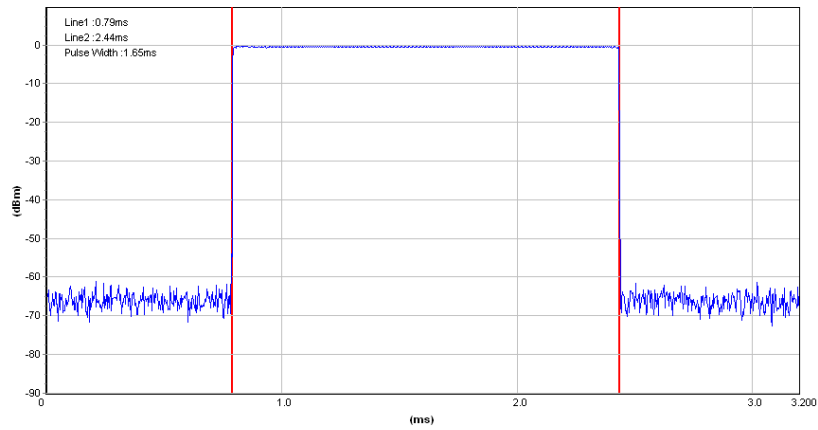
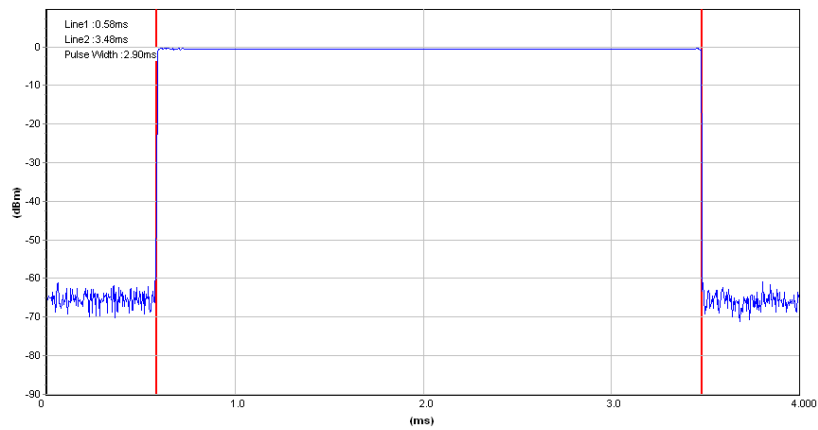
6.4 EUT OPERATION CONDITIONS

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°C	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	0.390	0.125	0.4
DH3	2441 MHz	1.650	0.264	0.4
DH5	2441 MHz	2.900	0.309	0.4

CH39-DH1**CH39-DH3****CH39-DH5**

7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

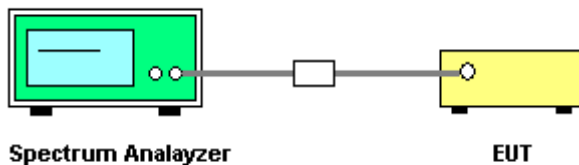
Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 20 dB bandwidth of the hopping channel, whichever is greater.

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

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

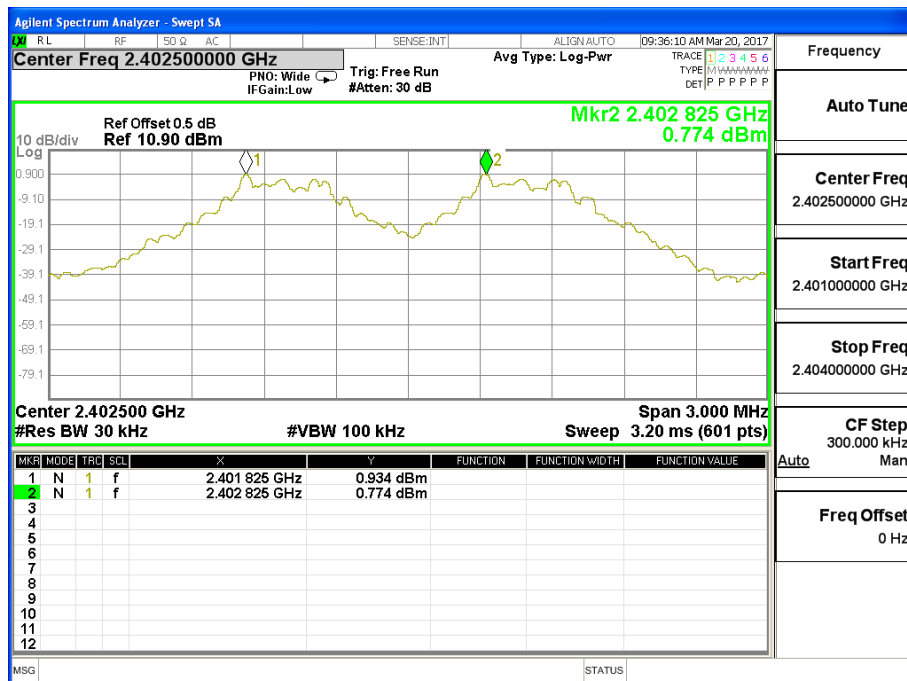
7.5 TEST RESULTS

Temperature :	25°C	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	0.857	Complies
2441 MHz	1.000	0.858	Complies
2480 MHz	1.000	0.858	Complies

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

CH00 -1Mbps



8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

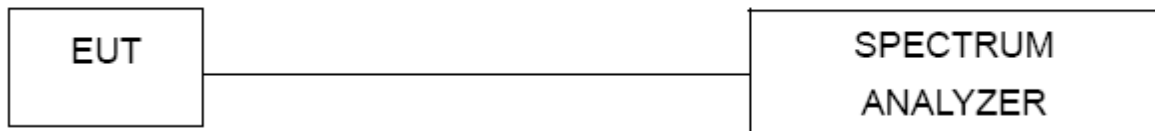
FCC Part15 15.247,Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

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

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

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

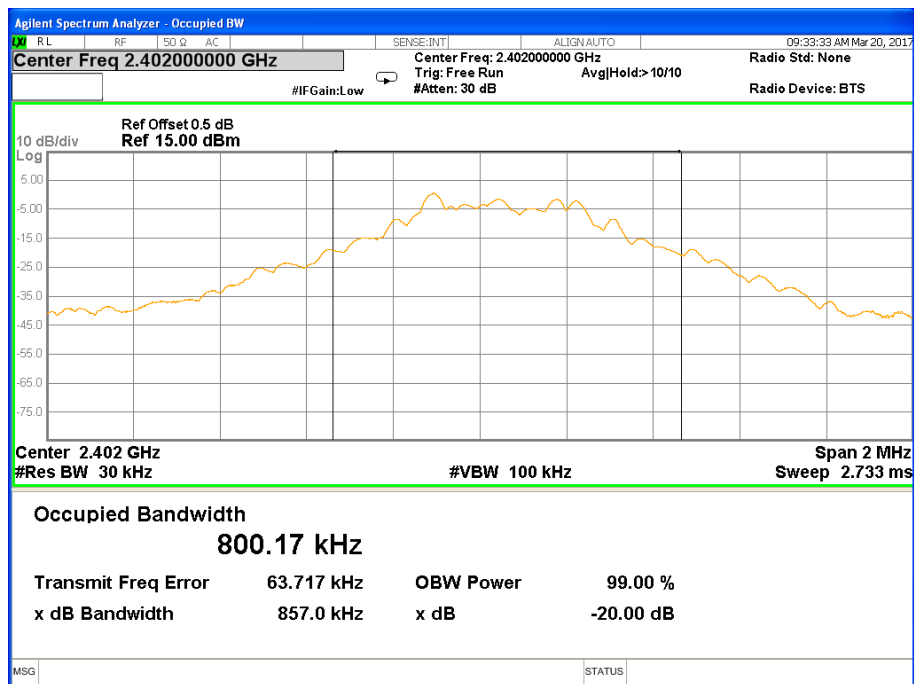
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.5 TEST RESULTS

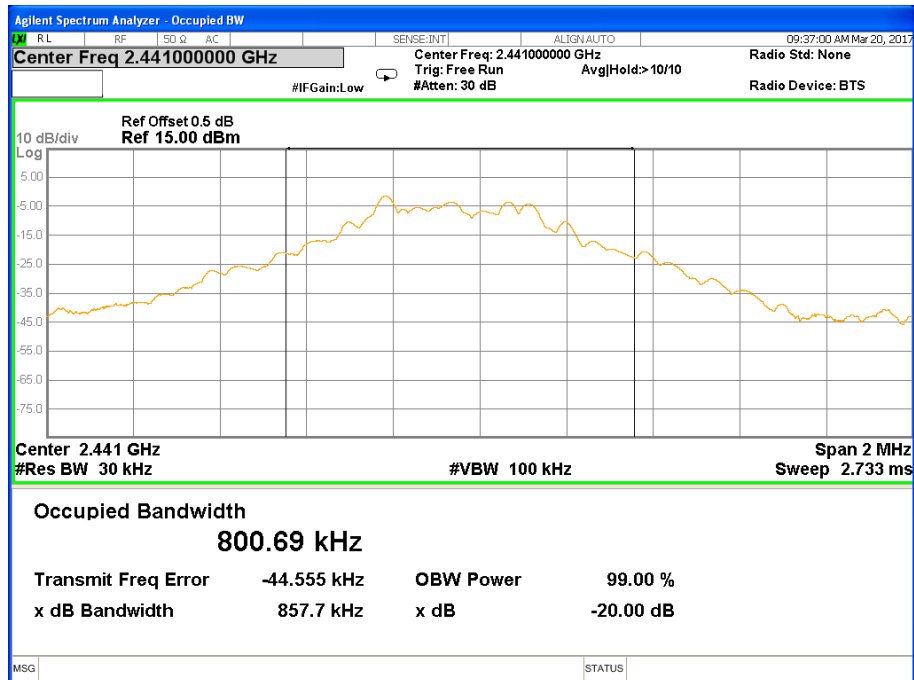
Temperature :	25°C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	GFSK(1Mbps)CH00 / CH39 / C78		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	0.857	PASS
2441 MHz	0.858	PASS
2480 MHz	0.858	PASS

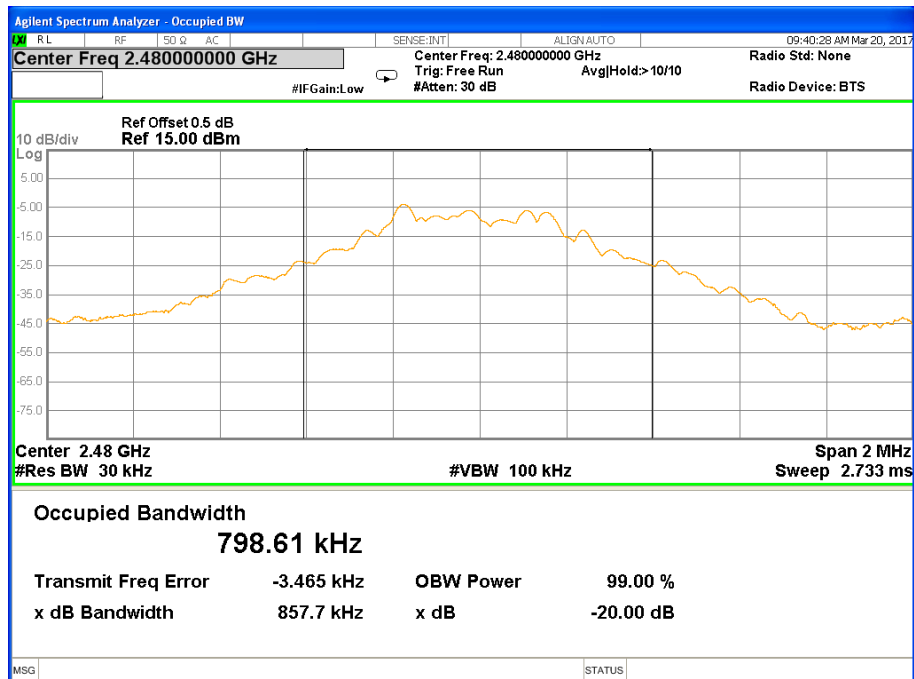
CH00 -1Mbps



CH39 -1Mbps



CH78 -1Mbps



9. OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)&(b)(1)	Output Power	1 W or 0.125W	2400-2483.5	PASS
		if channel separation > 2/3 bandwidth provided the systems operate with an output power no greater than 125 mW (20.96 dBm)		

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.

9.5 TEST RESULTS

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

GFSK(1Mbps)				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak (dBm)	AVG (dBm)	dBm
CH00	2402	2.89	-1.23	30
CH39	2441	1.35	-2.65	30
CH78	2480	0.28	-3.78	30

Note : the channel separation > bandwidth

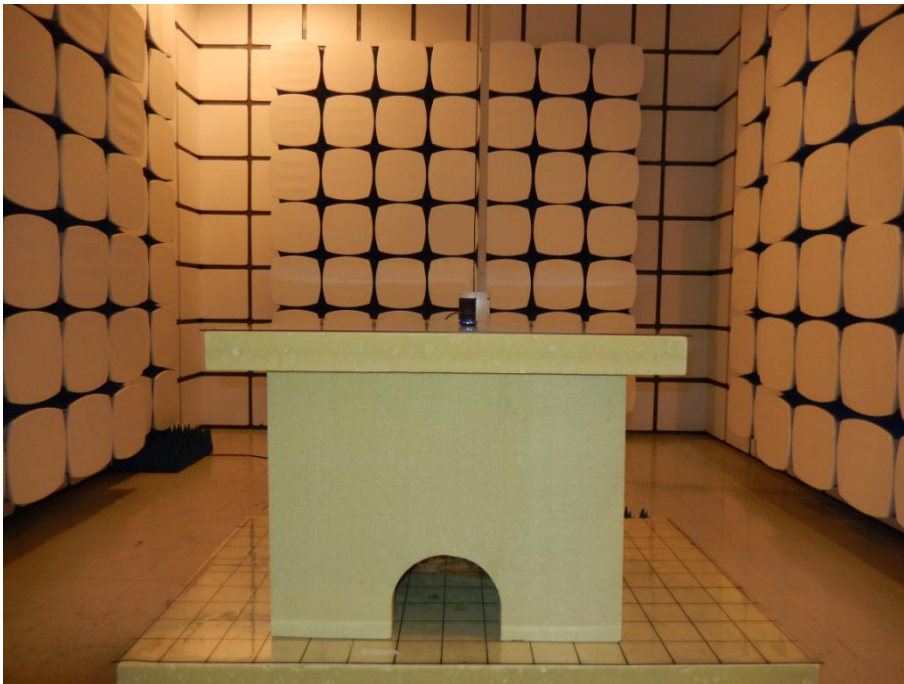
10. ANTENNA REQUIREMENT

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 PIFA Antenna. It comply with the standard requirement.

APPENDIX-PHOTOS OF TEST SETUP**Radiated Measurement Photos**

Conducted Measurement Photos



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