FCC REPORT

Applicant: NEG TECHNOLOGY Co., LIMITED

Address of Applicant: Rm 1406, Block B, Jinsejiari, Jingtian south road, Futian

district, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: OWN F1030

FCC ID: 2AAZ8-F1030

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 09 Jun., 2014

Date of Test: 09 Jun., to 20 Jun., 2014

Date of report issued: 20 Jun., 2014

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	20 Jun., 2014	Original

Prepared by: Date: 20 Jun., 2014

Report Clerk

Reviewed by: Date: 20 Jun., 2014

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)	Pass
Dwell Time	15.247 (a)(1)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	NEG TECHNOLOGY Co., LIMITED
Address of Applicant:	Rm 1406, Block B, Jinsejiari, Jingtian south road, Futian district, Shenzhen, China
Manufacturer :	
Address of Manufacturer:	/

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	OWN F1030
Operation Frequency:	2402MHz~2480MHz
Transfer rate:	1/2/3 Mbits/s
Number of channel:	79
Modulation type:	GFSK, π/4-DQPSK, 8DPSK
Modulation technology:	FHSS
Antenna Type:	Internal Antenna
Antenna gain:	1.4 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-850mAh
AC adapter:	Input: AC 100-240V 50/60Hz 0.15A Output: DC 5V, 500mA



Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		



5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with worst case data rate.
Remark	GFSK (1 Mbps) is the worst case mode.

The sample was placed 0.8m above the ground plane of 3m chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working with a fresh battery, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

● IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.5 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366



5.6 Test Instruments list

Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	July 09 2013	July 08 2014	
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK VULB9163 CC		CCIS0005	Jun., 25 2013	Jun., 24 2014	
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	Jun., 25 2013	Jun., 24 2014	
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
5	Coaxial Cable	CCIS N/A		CCIS0016	Apr. 01 2014	Mar. 31 2015	
6	Coaxial Cable	CCIS N/A		CCIS0017	Apr. 01 2014	Mar. 31 2015	
7	Coaxial cable	CCIS N/A		CCIS0018	Apr. 01 2014	Mar. 31 2015	
8	Coaxial Cable	CCIS N/A		CCIS0019	Apr. 01 2014	Mar. 31 2015	
9	Coaxial Cable	CCIS N/A		CCIS0087	Apr. 01 2014	Mar. 31 2015	
10	Amplifier(10kHz- 1.3GHz)	HP	HP 8447D		Apr. 01 2014	Mar. 31 2015	
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18 CCI		July 09 2013	July 08 2014	
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2014	Mar. 31 2015	
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2014	Mar. 29 2015	
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A	
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A	
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	May. 25 2013	May. 24 2014	
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2014	Mar. 31 2015	
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2013	Aug. 11 2014	
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	Jun.,. 25 2013	Jun., 24 2014	
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	Jun., 25 2013	Jun., 24 2014	

Conducted Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	July 09 2013	July 08 2014		
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	Jun., 25 2013	Jun., 24 2014		
3	LISN	CHASE	MN2050D	CCIS0074	Apr 01 2014	Mar. 31 2015		
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2014	Mar. 31 2015		
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		



6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is an integral antenna which permanently attached, and the best case gain of the antenna is 1.4 dBi.





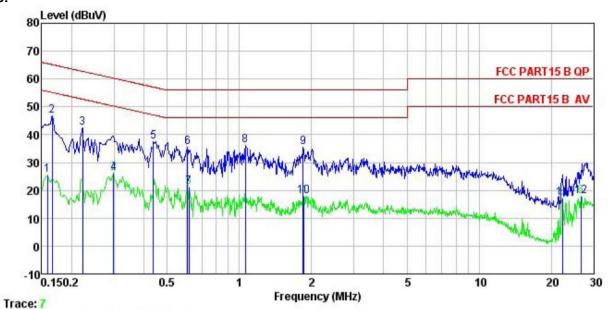
6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.4:2003					
Test Frequency Range:	150 kHz to 30 MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
Limit:	Frequency range (MHz)	lBuV)				
	Frequency range (MH2)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
Test setup:	* Decreases with the logarithm of Reference Plane	•				
	AUX Filter AC power Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Receiver					
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. 					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Bluetooth (Continuous transmittin	ig) mode				
Test results:	Pass					

Measurement Data



Line:



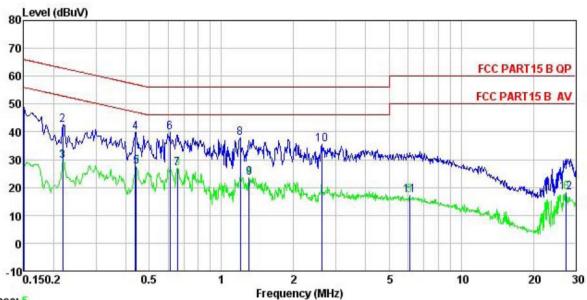
: CCIS Shielding Room : FCC PART15 B QP LISN LINE : Mobile Phone : OWN F1030 Site Condition

EUT Model Test Mode : BT TX mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Winner

Kemark	Freq	Read Level	LISN Factor	Cable Loss		Limit Line	Over Limit	Remark
-	MHz	−−dBuV	<u>dB</u>		dBu₹	—dBuV		
1	0.158	14.32	0.27	10.78	25.37	65.56	-40.19	Average
2	0.166	35.72	0.27	10.77	46.76	65.16	-18.40	QP
1 2 3 4 5 6 7 8 9	0.222	31.34	0.27	10.75	42.36	62.74	-20.38	QP
4	0.299	15.09	0.26	10.74	26.09	60.28	-34.19	Average
5	0.437	26.59	0.28	10.74	37.61	57.11	-19.50	QP
6	0.608	24.39	0.25	10.77	35.41	56.00	-20.59	QP
7	0.617	10.14	0.25	10.77	21.16	56.00	-34.84	Average
8	1.060	25.14	0.25	10.88	36.27	56.00	-19.73	QP
9	1.848	24.35	0.26	10.95	35.56	56.00	-20.44	QP
10	1.858	6.74	0.26	10.95	17.95	56.00	-38.05	Average
11	22.298	5.92	0.42	10.90	17.24	60.00	-42.76	Average
12	26, 558	6.36	0.63	10.87	17.86	60.00	-42.14	Average



Neutral:



Trace: 5

Site

CCIS Shielding Room FCC PART15 B QP LISN NEUTRAL Condition

EUT Mobile Phone Model OWN F1030 Test Mode : BT TX mode Power Rating : AC 120V/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Winner

Remark

(emark	•	Read	LISN	Cable		Limit	Over		
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark	
	MHz	dBu∀	₫B	₫B	dBu₹	dBu₹	dB		
1	0.150	37.86	0.25	10.78	48.89	66.00	-17.11	QP	
2	0.219	31.56	0.25	10.76	42.57	62.88	-20.31	QP	
3	0.219	18.55	0.25	10.76	29.56	62.88	-33.32	Average	
4	0.437	28.71	0.27	10.74	39.72	57.11	-17.39	QP	
1 2 3 4 5 6 7 8	0.442	16.45	0.27	10.74	27.46	57.02	-29.56	Average	
6	0.611	28.85	0.22	10.77	39.84	56.00	-16.16	QP	
7	0.654	15.89	0.20	10.77	26.86	56.00	-29.14	Average	
8	1.197	26.54	0.24	10.89	37.67	56.00	-18.33	QP	
9	1.303	12.54	0.25	10.90	23.69	56.00	-32.31	Average	
10	2.636	24.34	0.29	10.93	35.56	56.00	-20.44	QP	
11	6.089	6.01	0.27	10.82	17.10	60.00	-42.90	Average	
12	27.416	6.63	0.69	10.87	18.19	60.00	-41.81	Average	

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss



6.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
Test Method:	ANSI C63.4:2003 and DA00-705	
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=3MHz, VBW=10MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)	
Limit:	125 mW(21 dBm)	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.7 for details	
Test mode:	Non-hopping mode	
Test results:	Pass	

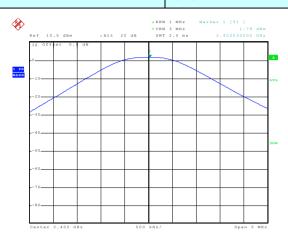
Measurement Data

weasurement Data					
	GFSK mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	1.79	21.00	Pass		
Middle	1.83	21.00	Pass		
Highest	1.42	21.00	Pass		
	π/4-DQPSK ι	mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	1.10	21.00	Pass		
Middle	1.13	21.00	Pass		
Highest	0.67	21.00	Pass		
	8DPSK mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	1.22 21.00 Pass		Pass		
Middle	1.22 21.00 Pass		Pass		
Highest	0.76	21.00	Pass		



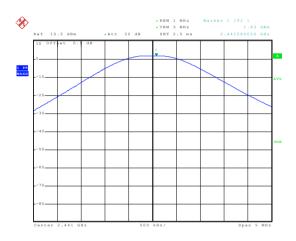
Test plot as follows:

Modulation mode: GFSK



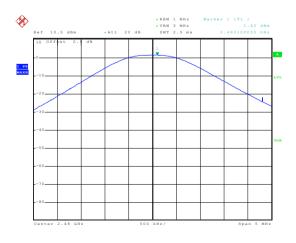
Date: 17.MAY.2014 11:54:34

Lowest channel



Date: 17.MAY.2014 11:55:11

Middle channel



Date: 17.MAY.2014 11:56:29

Highest channel

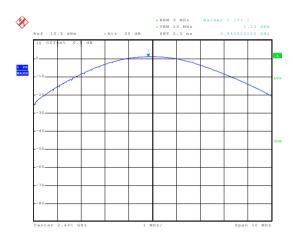


Modulation mode: π/4-DQPSK



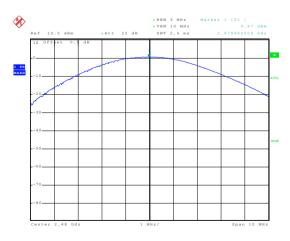
Date: 17.MAY.2014 12:06:54

Lowest channel



Date: 17.MAY.2014 12:05:59

Middle channel

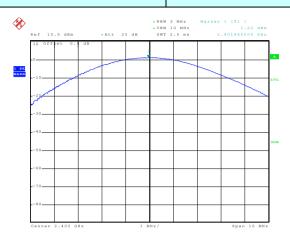


Date: 17.MAY.2014 12:04:55

Highest channel

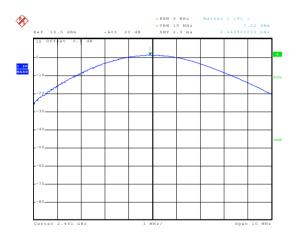


Modulation mode: 8DPSK



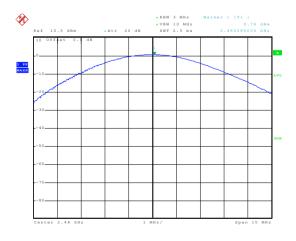
Date: 17.MAY.2014 12:01:59

Lowest channel



Date: 17.MAY.2014 12:02:55

Middle channel



Date: 17.MAY.2014 12:03:44

Highest channel



6.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.4:2003 and DA00-705	
Receiver setup:	RBW=30 kHz, VBW=100 kHz, detector=Peak	
Limit:	NA	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.7 for details	
Test mode:	Non-hopping mode	
Test results:	Pass	

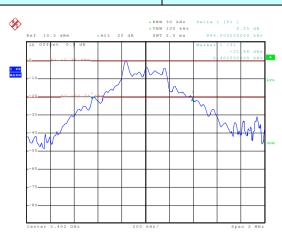
Measurement Data

Toot channel	20dB Occupy Bandwidth (kHz)		
Test channel	GFSK	π/4-DQPSK	8DPSK
Lowest	844	1120	1172
Middle	844	1124	1168
Highest	844	1124	1176

Test plot as follows:

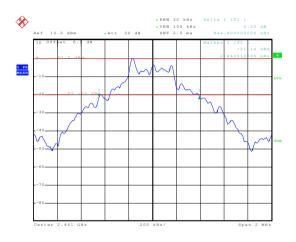


Modulation mode: GFSK



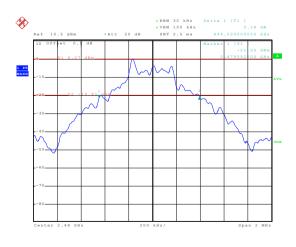
Date: 17.MAY.2014 12:12:51

Lowest channel



Date: 17.MAY.2014 12:24:59

Middle channel

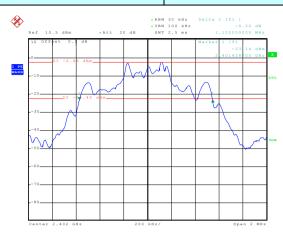


Date: 17.MAY.2014 12:29:07

Highest channel

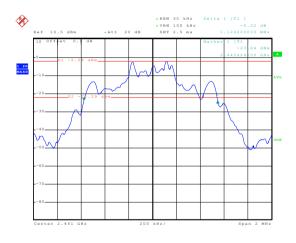


Modulation mode: $\pi/4$ -DQPSK



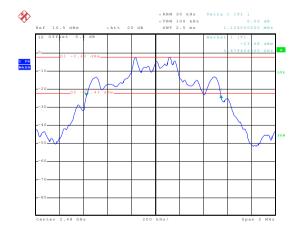
Date: 17.MAY.2014 12:38:27

Lowest channel



Date: 17.MAY.2014 12:34:50

Middle channel

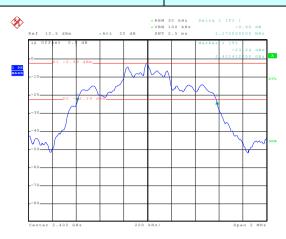


Date: 17.MAY.2014 12:32:36

Highest channel

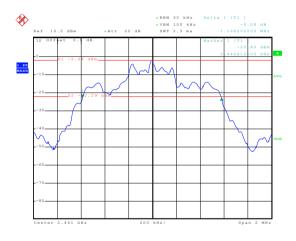


Modulation mode: 8DPSK



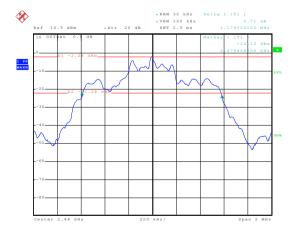
Date: 17.MAY.2014 12:49:51

Lowest channel



Date: 17.MAY.2014 12:52:28

Middle channel



Date: 17.MAY.2014 12:54:16

Highest channel



6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.4:2003 and DA00-705	
Receiver setup:	RBW=100 kHz, VBW=300 kHz, detector=Peak	
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.7 for details	
Test mode:	Hopping mode	
Test results:	Pass	

Measurement Data



	GFSK mode		
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1004	562.67	Pass
Middle	1000	562.67	Pass
Highest	1000	562.67	Pass
	π/4-DQPSK mod	le	
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1004	749.33	Pass
Middle	1004	749.33	Pass
Highest	1004	749.33	Pass
	8DPSK mode		
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1000 784.00 Pass		Pass
Middle	1004 784.00 Pass		Pass
Highest	1004 784.00 Pass		Pass

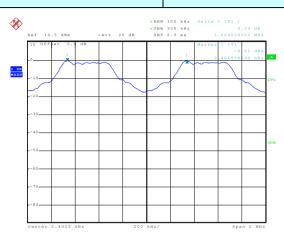
Note: According to section 6.4

Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	844	562.67
π/4-DQPSK	1124	749.33
8DPSK	1176	784.00

Test plot as follows:

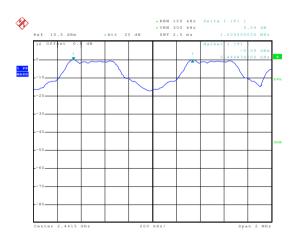


Modulation mode: GFSK



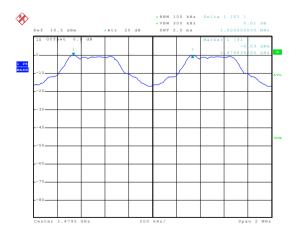
Date: 17.MAY.2014 13:27:31

Lowest channel



Date: 17.MAY.2014 13:25:04

Middle channel

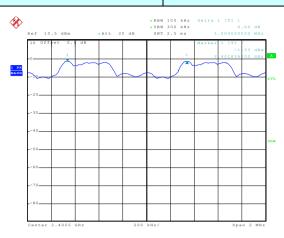


Date: 17.MAY.2014 13:22:52

Highest channel

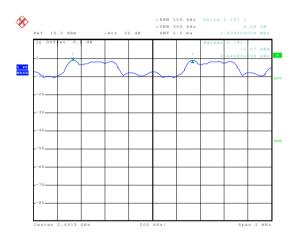


Modulation mode: $\pi/4$ -DQPSK



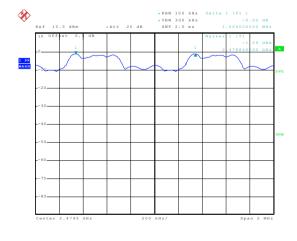
Date: 17.MAY.2014 13:15:35

Lowest channel



Date: 17.MAY.2014 13:17:57

Middle channel

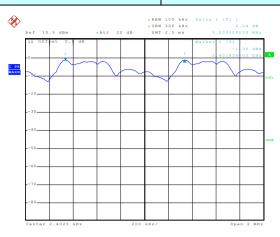


Date: 17.MAY.2014 13:20:19

Highest channel

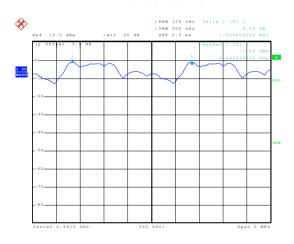


Modulation mode: 8DPSK



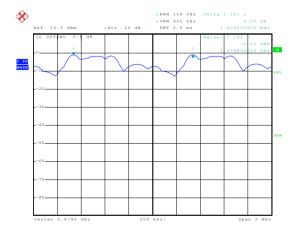
Date: 17.MAY.2014 13:12:25

Lowest channel



Date: 17.MAY.2014 12:59:19

Middle channel



Date: 17.MAY.2014 12:57:55

Highest channel



6.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.4:2003 and DA00-705	
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak	
Limit:	15 channels	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.7 for details	
Test mode:	Hopping mode	
Test results:	Pass	

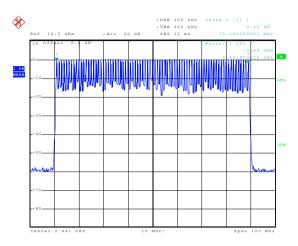
Measurement Data:

Mode	Hopping channel numbers	Limit	Result
GFSK, π/4-DQPSK, 8DPSK	79	15	Pass



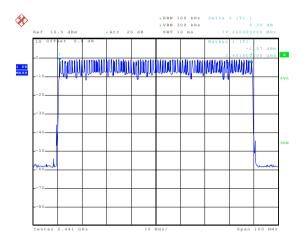






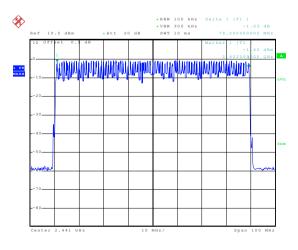
Date: 17.MAY.2014 13:31:32

$\pi/4$ -DQPSK



Date: 17.MAY.2014 14:41:40

8DPSK



Date: 17.MAY.2014 14:58:44



6.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.4:2003 and KDB DA00-705	
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak	
Limit:	0.4 Second	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.7 for details	
Test mode:	Hopping mode	
Test results:	Pass	

Measurement Data (Worse case)

Mode	Packet	Dwell time (second)	Limit (second)	Result
	DH1	0.12608		
GFSK	DH3	0.26784	0.4	Pass
	DH5	0.31403		
	2-DH1	0.13120		
π /4-DQPSK	2-DH3	0.27264	0.4	Pass
	2-DH5	0.31403		
	3-DH1	0.12992		
8DPSK	3-DH3	0.27552	0.4	Pass
	3-DH5	0.31573		

For GFSK, $\pi/4$ -DQPSK and 8DPSK:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

DH1 time slot=0.394*(1600/(2*79))*31.6=126.08ms DH3 time slot=1.674*(1600/(4*79))*31.6=267.84ms DH5 time slot=2.944*(1600/(6*79))*31.6=314.03ms

2-DH1 time slot=0.410*(1600/ (2*79))*31.6=131.20ms

2-DH3 time slot=1.704*(1600/ (4*79))*31.6=272.64ms

2-DH5 time slot=2.944*(1600/ (6*79))*31.6=314.03ms

3-DH1 time slot=0.406*(1600/ (2*79))*31.6=129.92ms

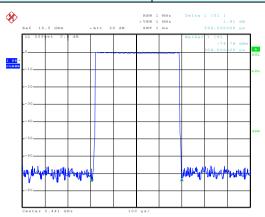
3-DH3 time slot=1.722*(1600/ (4*79))*31.6=275.52ms

3-DH5 time slot=2.960*(1600/ (6*79))*31.6=315.73ms



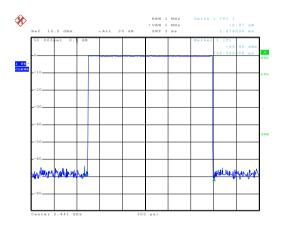
Test plot as follows:

Modulation mode: GFSK



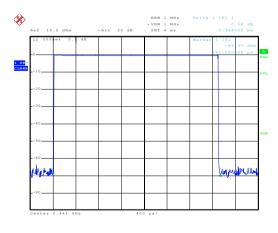
Date: 17.MAY.2014 15:05:25

DH1



Date: 17.MAY.2014 15:07:48

DH3

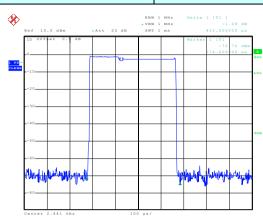


Date: 17.MAY.2014 15:09:26

DH5

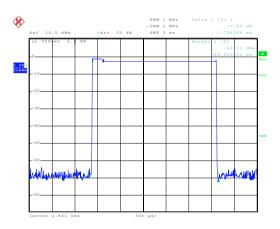


Modulation mode: $\pi/4$ -DQPSK



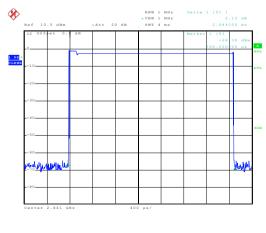
Date: 17.MAY.2014 15:10:36

2-DH1



Date: 17.MAY.2014 15:12:29

2-DH3

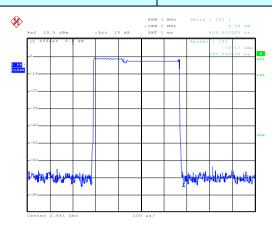


Date: 17.MAY.2014 15:13:50

2-DH5

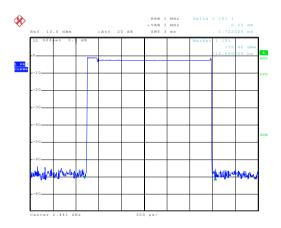


Modulation mode: 8DPSK



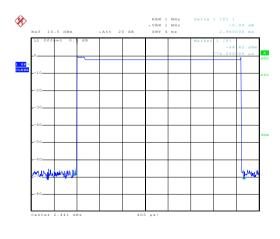
Date: 17.MAY.2014 15:15:36

3-DH1



Date: 17.MAY.2014 15:17:04

3-DH3



Date: 17.MAY.2014 15:18:23

3-DH5



6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

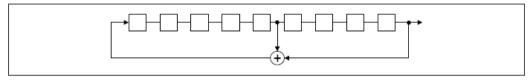
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

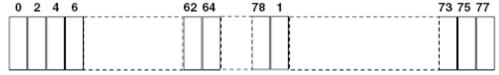
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.



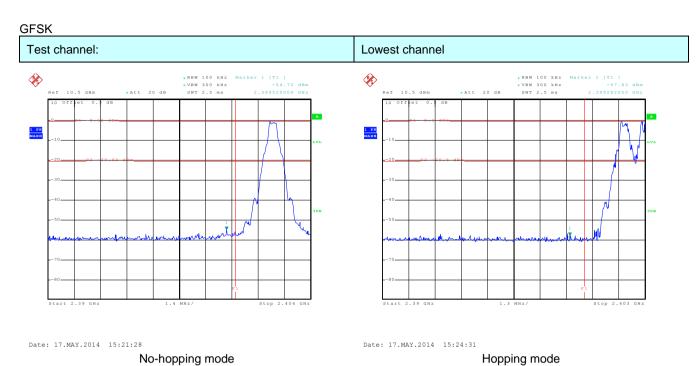
6.9 Band Edge

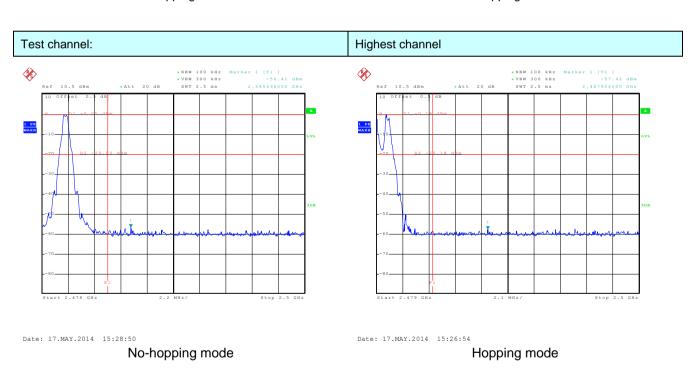
6.9.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)	
Test Method:	ANSI C63.4:2003 and DA00-705	
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.7 for details	
Test mode:	Non-hopping mode and hopping mode	
Test results:	Pass	

Test plot as follows:

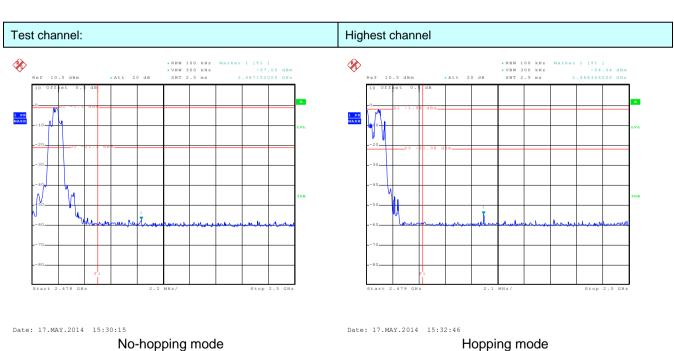






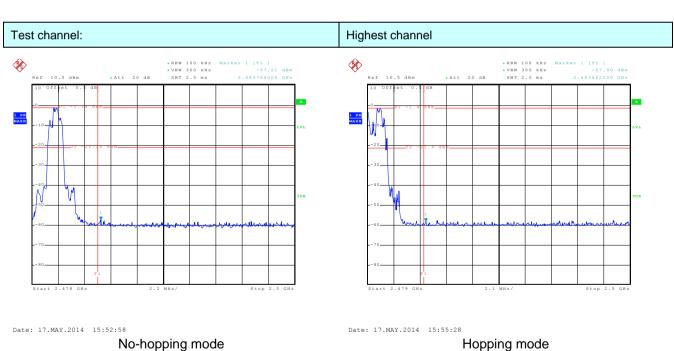














6.9.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209 an	d 15.205							
Test Method:	ANSI C63.4: 2003	3								
Test Frequency Range:	2.3GHz to 2.5GH	Z								
Test site:	Measurement Dis									
Receiver setup:	Frequency	Detector	RBW	VBW	Remark					
receiver detap.		Peak	1MHz	3MHz	Peak Value					
	Above 1GHz	Peak	1MHz	10Hz	Average Value					
Limit:	Frequency Limit (dBuV/m @3m) Remark									
	Above 1GHz 54.00 Average Value									
	Above 1GHz 74.00 Peak Value									
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Amplifier 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground									
Test Procedure:	at a 3 meter or position of the position of the 2. The EUT was was mounted 3. The antenna hadetermine the polarizations of 4. For each susp the antenna was turned from 5. The test-receive Bandwidth with 6. If the emission specified, there had be reported. Or re-tested one in the position of the positi	amber. The table highest radiation set 3 meters awon the top of a valeight is varied for maximum value of the antenna and ected emission, as tuned to height of the antenna to wer system was the Maximum Hole and the testing could be botherwise the emission.	e was rotated and any from the invariable-height rom one meter of the field street to make the EUT was gots from 1 me 360 degrees to Peak Ded Mode. T in peak mode a stopped and hissions that diak, quasi-peak	terference-re antenna tow to four meter to four meter arranged to ter to 4 meter to 4 meter to 4 meter to 4 meter to 5 find the material Function e was 10dB the peak valid not have 1	ceiving antenna, which ver. ers above the ground to horizontal and vertical ement. its worst case and then ers and the rota table eximum reading.					
Test Instruments:	Refer to section 5									
Test mode:	Non-hopping mod	de								
Test results:	Passed									
	•									

Remark:

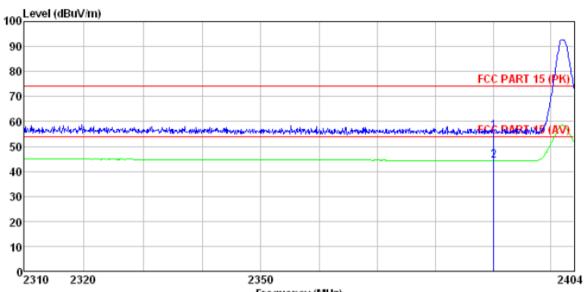
- 1. During the test, pre-scan the GFSK, $\pi/4$ -DQPSK, 8DPSK, and all data were shown in report.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.



GFSK mode

Test channel: Lowest

Horizontal:



Trace: 32

Frequency (MHz)

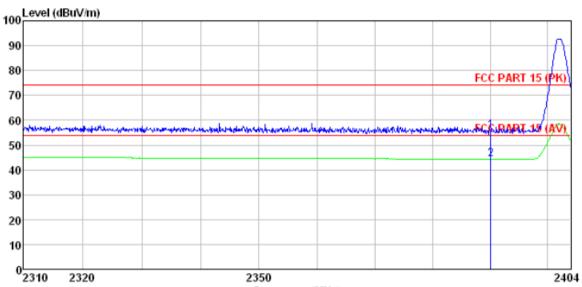
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Mobile phone
Model : OWN F1030
Test mode : BT TX(DH1 low channel) mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Winner
Remark :

Remark

Freq		ReadAntenna Level Factor						Remark
MHz	dBu∜	dB/m	<u>dB</u>	dB	dBuV/m	dBuV/m	<u>dB</u>	
2390.000 2390.000								







Trace: 30

Frequency (MHz)

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

EUT : Mobile phone

Model : OWN F1030

Test mode : BT TX(DH1 low channel) mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: Winner

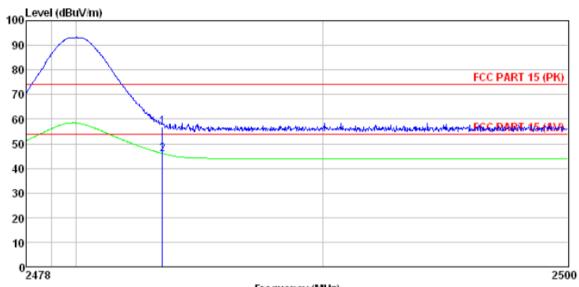
Remark

	Freq		ReadAntenna Level Factor						Remark	
	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2	2390.000 2390.000									



Test channel: Highest

Horizontal:



Frequency (MHz) Trace: 34

Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL

Model : Mobile phone

Model : OWN F1030

Test mode : BT TX(DH1 high channel) mode

Power Rating : AC 120V/60Hz

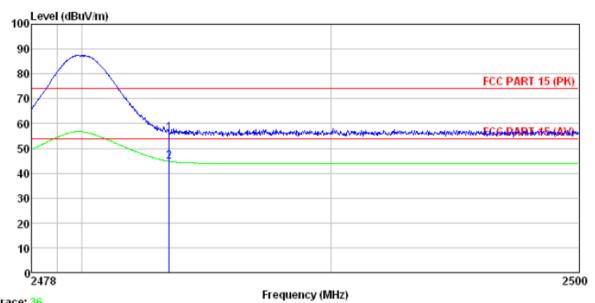
Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Winner Remark

emari	-		Antenna Factor						
	MHz	dBu∜	<u>dB</u> /m	<u>dB</u>	<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>	
	2483.500 2483.500								







Trace: 36

Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Mobile phone
Model : OWN F1030
Test mode : BT TX(DH1 high channel) mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: Winner

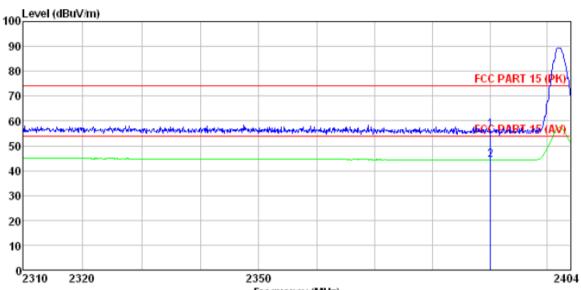
Remark

	Freq				Cable Preamp Loss Factor				
	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2483.500 2483.500								



π/4-DQPSK mode Test channel: Lowest

Horizontal:



Trace: 40

Frequency (MHz)

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL

Condition EUT : Mobile phone : OWN F1030 Model

Test mode : BT TX(2DH1 low channel) mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

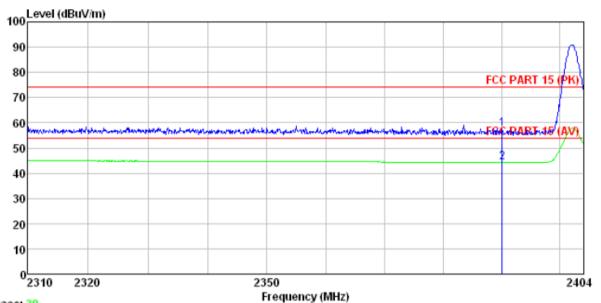
Test Engineer: Winner

Remark

omari	-		Antenna Factor						Remark	
-	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	dB		-
_	2390.000 2390.000									







Trace: 38

Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Mobile phone
Model : OWN F1030
Test mode : BT TX(2DH1 low channel) mode
Power Rating : AC 120V/60Hz
Environment : Temp: 25 5°C Huni: 55%

Environment : Temp: 25.5°C Huni: 55% Test Engineer: Winner

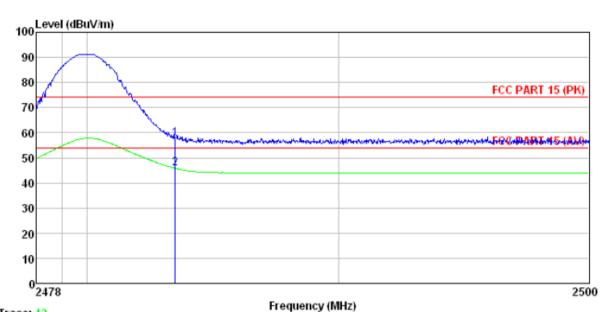
Remark

Freq		ReadAntenna Level Factor						Remark	
MHz	dBu∜	—dB/m	dB	dB	dBuV/m	dBuV/m	dB		
2390.000 2390.000									



Test channel: Highest

Horizontal:



Trace: 42

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Site Condition

EUT : Mobile phone

Model : OWN F1030
Test mode : BT TX(2DH1 high channel) mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

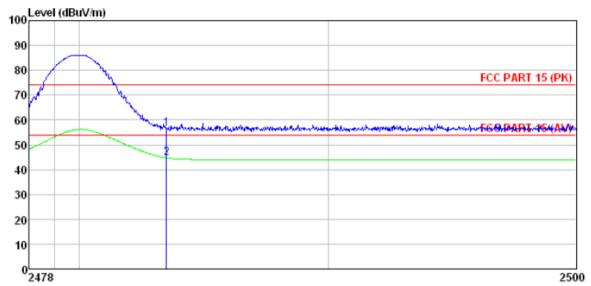
Test Engineer: Winner

Remark

CILALI		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq		Factor							
	MHz	dBu∜	—dB/m	dB	dB	dBuV/m	dBuV/m	<u>dB</u>		-
	2483.500 2483.500				0.00 0.00					







Frequency (MHz) Trace: 44

Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL

: Mobile phone : OWN F1030 EUT Model

Test mode : BT TX(2DH1 high channel) mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Winner

Remark

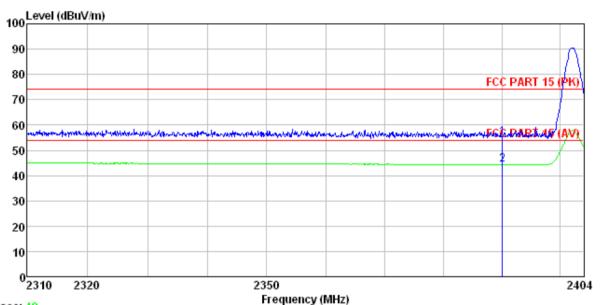
ReadAntenna Cable Preamp Limit Over Limit Remark Loss Factor Level Freq Level Factor Line MHz dBu∀ dB/m ďB dB dBuV/m dBuV/m ďΒ 0.00 56.53 74.00 -17.47 Peak 0.00 44.68 54.00 -9.32 Average 2483.500 23.31 27.52 5.70 2483.500 11.46 27.52 5.70



8DPSK mode

Test channel: Lowest

Horizontal:



Trace: 48

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : Mobile phone Model : OWN F1030

Test mode : BT TX(3DH1 low channel) mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

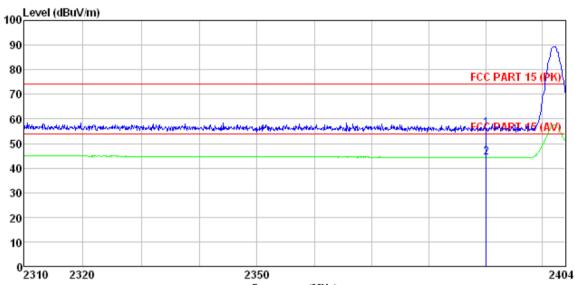
Test Engineer: Winner

Remark

	Freq		Antenna Factor				Remark
	MHz	dBu∜	dB/m	<u>ab</u>	 dBuV/m	dBuV/m	
1	2390.000 2390.000				 		







Trace: 46

Frequency (MHz)

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

: Mobile phone EUT Model : OWN F1030

Test mode : DWN F1030
Test mode : BT TX(3DH1 low channel) mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5 C Huni:55%

Test Engineer: Winner

Remark

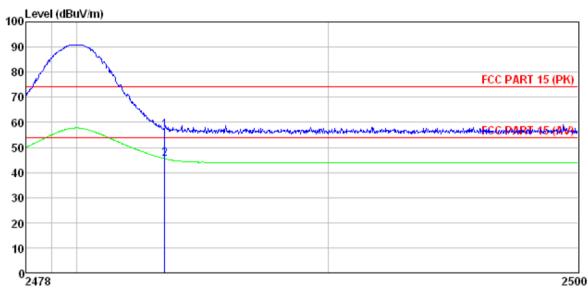
1 2

Freq		Antenna Factor				Remark	
	dBu∜	<u>dB</u> /m	<u>d</u> B	 dBuV/m	dBuV/m	 	-
2390.000 2390.000				 		 	



Test channel: Highest

Horizontal:



Trace: 50

Frequency (MHz)

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : Mobile phone

Model : OWN F1030

Test mode : BT TX(3DH1 high channel) mode

Power Rating : AC 120V/60Hz

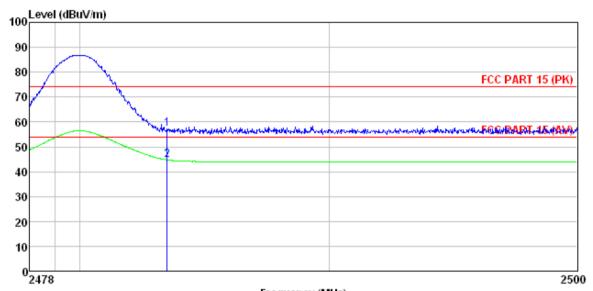
Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Winner Remark :

ark	. :				Preamp					
	Freq	Level	Pactor	Loss	Factor	Level	Line	Limit	Kemark	
	MHz	dBu∀	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
					0.00 0.00				Peak Average	







Frequency (MHz) Trace: 52

Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Mobile phone
Model : OWN F1030
Test mode : BT TX(3DH1 high channel) mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Winner
Remark

Remark

1 2

	Freq		ReadAntenna Level Factor				Limit Level Line		Remark
	MHz	dBu∜	dB/m	<u>dB</u>		dBuV/m	dBuV/m		
2	2483.500 2483.500								



6.10 Spurious Emission

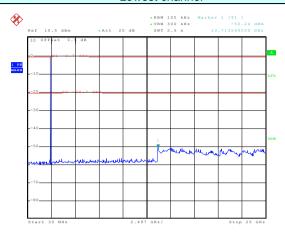
6.10.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	ANSI C63.4:2003 and DA00-705						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.7 for details						
Test mode:	Non-hopping mode						
Test results:	Pass						



GFSK

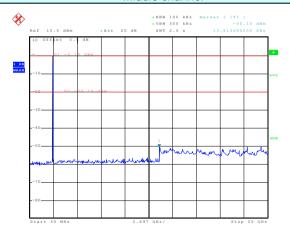
Lowest channel



Date: 17.MAY.2014 15:58:59

30MHz~25GHz

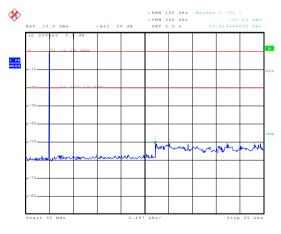
Middle channel



Date: 17.MAY.2014 16:00:01

30MHz~25GHz

Highest channel



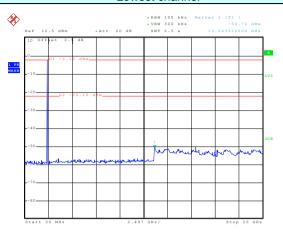
Date: 17.MAY.2014 16:03:06

30MHz~25GHz



$\pi/4$ -DQPSK

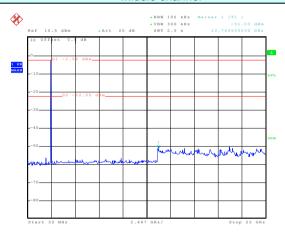
Lowest channel



Date: 17.MAY.2014 16:10:12

30MHz~25GHz

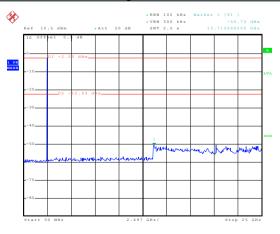
Middle channel



Date: 17.MAY.2014 16:06:36

30MHz~25GHz

Highest channel



Date: 17.MAY.2014 16:05:20

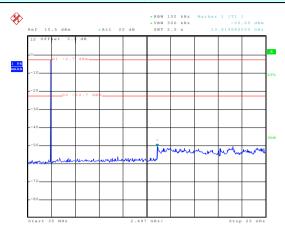
30MHz~25GHz

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8DPSK

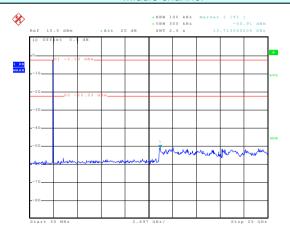




Date: 17.MAY.2014 16:13:37

30MHz~25GHz

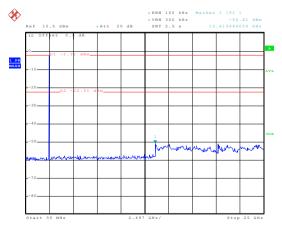
Middle channel



Date: 17.MAY.2014 16:19:23

30MHz~25GHz

Highest channel



Date: 17.MAY.2014 16:23:19

30MHz~25GHz





6.10.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209								
Test Method:	ANSI C63.4: 2003	3								
Test Frequency Range:	9 kHz to 25 GHz									
Test site:	Measurement Dis	Measurement Distance: 3m								
Receiver setup:	Frequency	Remark								
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value					
	Ab 21/2 4 CH =	Peak	1MHz	3MHz	Peak Value					
	Above 1GHz	Peak	1MHz	10Hz	Average Value					
Limit:	Freque	ency	Limit (dBuV/	m @3m)	Remark					
	30MHz-8	8MHz	40.0)	Quasi-peak Value					
	88MHz-21	16MHz	43.5	5	Quasi-peak Value					
	216MHz-9	60MHz	46.0)	Quasi-peak Value					
	960MHz-	1GHz	54.0)	Quasi-peak Value					
	Above 1	CH-	54.0)	Average Value					
	Above i	GHZ)	Peak Value						
	Below 1GHz 74.0 Peak Value Antenna Tower Antenna Tower FF Test Receiver Ground Plane Above 1GHz Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower									



Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Remark:

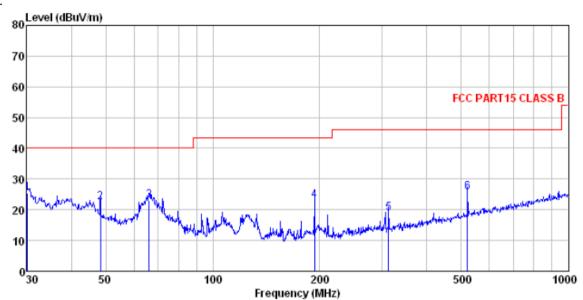
- 1. During the test, pre-scan the GFSK, $\pi/4$ -DQPSK, 8DPSK modulation, and found the GFSK modulation is the worst case.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.
- 3. 9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report.

Measurement data:



Below 1GHz

Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL Condition

EUT : Mobile phone

Model : OWN F1030

Test mode : BT TX mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

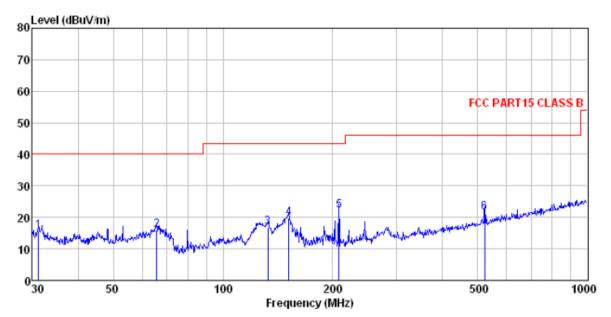
Test Engineer: Winner Remark

lark	•	Read	Antenna	Cabla	Dreamn		Limit	Over		
	Freq		Factor						Remark	
-	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
	30.105		12.33 13.35		29.98					
			10.16							
l	193.095									
i	312.179									
i	520.888	35.09	17.00	2.46	29.01	25.54	46.00	-20.46	QP	





Horizontal:



: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL Condition

condition: FCC PART15 CLASS B 3m EUT: Mobile phone
Model: OWN F1030
Test mode: BT TX mode
Power Rating: AC 120V/60Hz
Environment: Temp:25.5°C Huni:55%
Test Engineer: Winner
Remark

Remark

	Freq					Level			
-	MHz	dBu∜	dB/m		dB	dBuV/m	dBuV/m	dB	
1 2 3 4	31.180 65.803 132.685 151.597	34.70 36.06 39.25	10.30 8.72 8.32	0.76 1.21 1.32	29.75 29.31 29.21	16.01 16.68 19.68	40.00 43.50 43.50	-23.99 -26.82 -23.82	QP QP QP
5 6	207.850 522.718								



Above 1GHz:

Test channel:		L	.owest		Level:	Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804.00	56.35	31.53	8.90	40.24	56.54	74.00	-17.46	Vertical	
4804.00	56.35	31.53	8.90	40.24	56.54	74.00	-17.46	Horizontal	
Tes	t channel:		Low	est	Level:		Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804.00	40.12	31.53	8.90	40.24	40.31	54.00	-13.69	Vertical	
4804.00	39.41	31.53	8.90	40.24	39.60	54.00	-14.40	Horizontal	

Test channel:		M	1iddle		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	56.67	31.58	8.98	40.15	57.08	74.00	-16.92	Vertical
4882.00	56.44	31.58	8.98	40.15	56.85	74.00	-17.15	Horizontal
Test channe	Test channel: Middle			Level:		Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	40.65	31.58	8.98	40.15	41.06	54.00	-12.94	Vertical
4882.00	40.21	31.58	8.98	40.15	40.62	54.00	-13.38	Horizontal

Test channel:		Н	lighest		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	56.32	31.69	9.08	40.03	57.06	74.00	-16.94	Vertical
4960.00	56.14	31.69	9.08	40.03	56.88	74.00	-17.12	Horizontal
Test channe	l:	Н	lighest		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	40.21	31.69	9.08	40.03	40.95	54.00	-13.05	Vertical
4960.00	40.25	31.69	9.08	40.03	40.99	54.00	-13.01	Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means average level is not recorded when its peak level is less than average limit.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.