Report No: CCISE190517402

FCC REPORT

(Bluetooth)

Applicant: GSM GLOBE.COM INC

Address of Applicant: 134 N.E 1 Street, Miami Florida United States 33122

Equipment Under Test (EUT)

Product Name: MOBILE PHONE

Model No.: G1 Porto, G1 Sevilla, G1 Liverpool, G1

Trade mark: GOL

FCC ID: 2AEJAGOLG1

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

Date of sample receipt: 31 May, 2019

Date of Test: 01 Jun., 2019 to 19 Jun., 2019

Date of report issued: 20 Jun., 2019

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.

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2 Version

Version No.	Date	Description
00	20 Jun., 2019	Original

Tested by: Mike Du Date: 20 Jun., 2019

Test Engineer

Reviewed by: Date: 20 Jun., 2019

Project Engineer



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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna Requirement	15.203 & 15.247 (b)	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
Spurious Emission	15.205 & 15.209	Pass
Band Edge	15.247(d)	Pass

All measurement data were performed in accordance with ANSI C63.10: 2013 and KDB 558074 D01 15.247 Meas Guidance v05r02 of test method.

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.





5 General Information

5.1 Client Information

Applicant:	GSM GLOBE.COM INC
Address:	134 N.E 1 Street, Miami Florida United States 33122
Manufacturer:	GSM GLOBE.COM INC
Address:	134 N.E 1 Street, Miami Florida United States 33122

5.2 General Description of E.U.T.

3.2 Ocheral Description	011 01 210111
Product Name:	MOBILE PHONE
Model No.:	G1 Porto, G1 Sevilla, G1 Liverpool, G1
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:	1.0 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1000mAh
AC adapter:	Model: G1 Porto Input: AC110-240V, 50/60Hz, 0.12A Output: DC 5.0V, 500mA
Remark:	Model No.: G1 Porto, G1 Sevilla, G1 Liverpool, G1 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

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
	•••		•••				
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		

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5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Modes:	
Non-hopping mode:	Keep the EUT in continuous transmitting mode with worst case data rate.
Hopping mode:	Keep the EUT in hopping mode.
Remark	GFSK (1 Mbps) is the worst case mode.

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) 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 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.54 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.84 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

5.6 Laboratory Facility

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

FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● ISED - CAB identifier.: CN0021

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.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.7 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

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

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5.8 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020	
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-18-2019	03-17-2020	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019	
EMI Test Software	AUDIX	E3	Version: 6.110919b)	
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020	
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020	
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020	
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A	
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	`	

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-18-2019	03-17-2020	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020	
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019	
Cable	HP	10503A	N/A	03-18-2019	03-17-2020	
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919l	b	

6 Test results and measurement data

6.1 Antenna Requirement

Standard requirement: FCC Part 15 C Section 15.203 & 247(b)

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(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The Bluetooth antenna is an Internal antenna which permanently attached, and the best case gain of the antenna is 1.0 dBi.



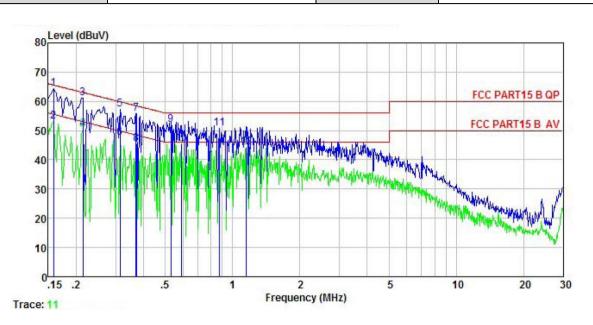
6.2 Conducted Emissions

Test Requirement:	FCC Part 15 C Section 1	5 207	
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
•			
Receiver setup:	RBW=9 kHz, VBW=30 k	•	ID 10
Limit:	Frequency range	Limit (c	,
	(MHz) 0.15-0.5	Quasi-peak 66 to 56*	Average 56 to 46*
	0.15-0.5	56	46
	5-30	60	50
	* Decreases with the log		
Test setup:	Reference		
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Neronal Test table height=0.8m	EMI 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 C63.10: 2013 on conducted measurement. 		
Test Instruments:	Refer to section 5.8 for o	letails	
Test mode:	Hopping mode		
Test results:	Pass		



Measurement Data:

Product name:	MOBILE PHONE	Product model:	G1 Porto
Test by:	Mike	Test mode:	BT Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



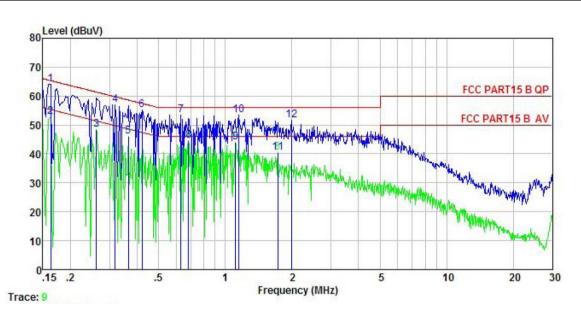
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	<u>dB</u>	₫B	dBu₹	dBu₹	<u>d</u> B	
1 2 3	0.158	53.94	-0.44	10.77	64.27	65.56	-1.29	
2	0.158	42.76	-0.44	10.77	53.09	55.56	-2.47	Average
3	0.214	50.86	-0.41	10.76	61.21	63.05	-1.84	QP
4	0.214	40.17	-0.41	10.76	50.52	53.05	-2.53	Average
5	0.313	46.91	-0.38	10.74	57.27	59.88	-2.61	
6	0.313	37.19	-0.38	10.74	47.55	49.88	-2.33	Average
7	0.369	45.54	-0.37	10.73	55.90	58.52	-2.62	
8	0.371	35.13	-0.37	10.73	45.49	48.47		Average
4 5 6 7 8 9	0.529	41.60	-0.39	10.76	51.97	56.00	-4.03	[전 : [. 1. 1] [. 1. 1] [. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
10	0.589	35.05	-0.39	10.76	45.42	46.00		Average
11	0.876	40.28	-0.38	10.83	50.73	56.00	-5.27	
12	1.147	33.87	-0.39	10.89	44.37	46.00		Average

Notes:

- 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.



Product name:	MOBILE PHONE	Product model:	G1 Porto
Test by:	Mike	Test mode:	BT Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>d</u> B	₫B	dBu₹	dBu₹	<u>d</u> B	
1 2 3	0.162	54.10	-0.68	10.77	64.19	65.34	-1.15	
2	0.162	42.63	-0.68	10.77	52.72	55.34	-2.62	Average
	0.262	38.33	-0.65	10.75	48.43	51.38	-2.95	Average
4	0.318	46.95	-0.63	10.74	57.06	59.75	-2.69	QP
4 5 6	0.365	35.82	-0.64	10.73	45.91	48.61	-2.70	Average
6	0.421	44.98	-0.64	10.73	55.07	57.42	-2.35	QP
7	0.630	43.37	-0.64	10.77	53.50	56.00	-2.50	QP
8	0.683	34.34	-0.64	10.77	44.47	46.00	-1.53	Average
9	1.111	33.88	-0.64	10.88	44.12	46.00		Average
10	1.147	43.26	-0.64	10.89	53.51	56.00	-2.49	QP
11	1.725	30.05	-0.66	10.94	40.33	46.00		Average
12	1.991	41.35	-0.67	10.96	51.64	56.00	-4.36	

Notes:

- 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

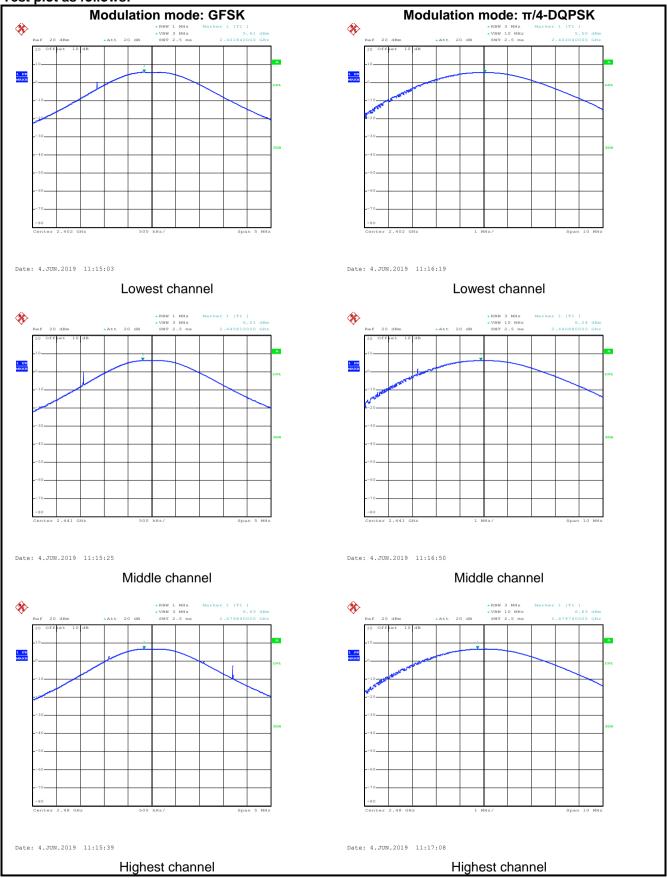
Test Requirement:	FCC Part 15 C Section 15.247 (b)(1)		
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=3MHz, VBW=10MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)		
Limit:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Non-hopping mode		
Test results:	Pass		

Measurement Data:

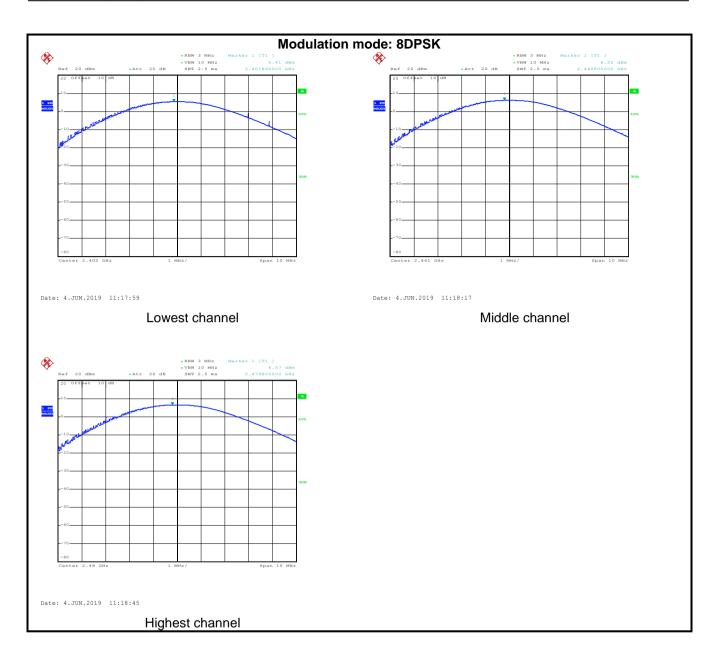
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
	GFSK mode					
Lowest channel	5.61	30.00	Pass			
Middle channel	6.21	30.00	Pass			
Highest channel	6.63	30.00	Pass			
	π/4-DQPSK r	mode				
Lowest channel	5.50	21.00	Pass			
Middle channel	6.24	21.00	Pass			
Highest channel	6.63	21.00	Pass			
	8DPSK mode					
Lowest channel	5.41	21.00	Pass			
Middle channel	6.20	21.00	Pass			
Highest channel	6.57	21.00	Pass			



Test plot as follows:









6.4 20dB Occupy Bandwidth

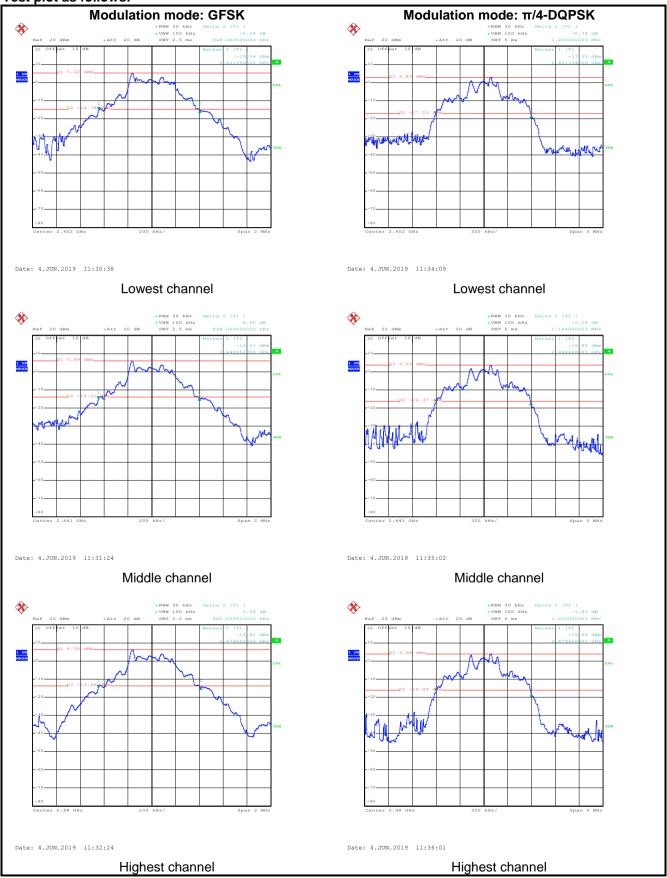
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)		
Receiver setup:	RBW=30 kHz, VBW=100 kHz, detector=Peak		
Limit:	N/A		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Non-hopping mode		
Test results:	Pass		

Measurement Data:

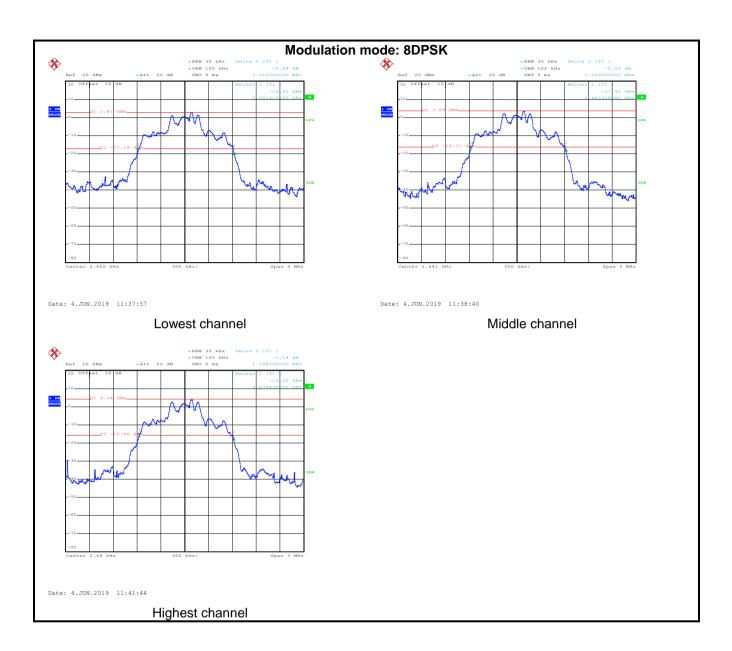
Test channel		20dB Occupy Bandwidth (kHz)		
	GFSK	π/4-DQPSK	8DPSK	
Lowest	848	1206	1212	
Middle	848	1194	1200	
Highest	860	1200	1188	



Test plot as follows:









6.5 Carrier Frequencies Separation

0.5 Carrier rrequerier					
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)				
Receiver setup:	RBW=100 kHz, VBW=300 kHz, detector=Peak				
Limit:	 a) 0.025MHz or the 20dB bandwidth (whichever is greater) b) 0.025MHz or two-thirds 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 5.8 for details				
Test mode:	Hopping mode				
Test results:	Pass				



Measurement Data:

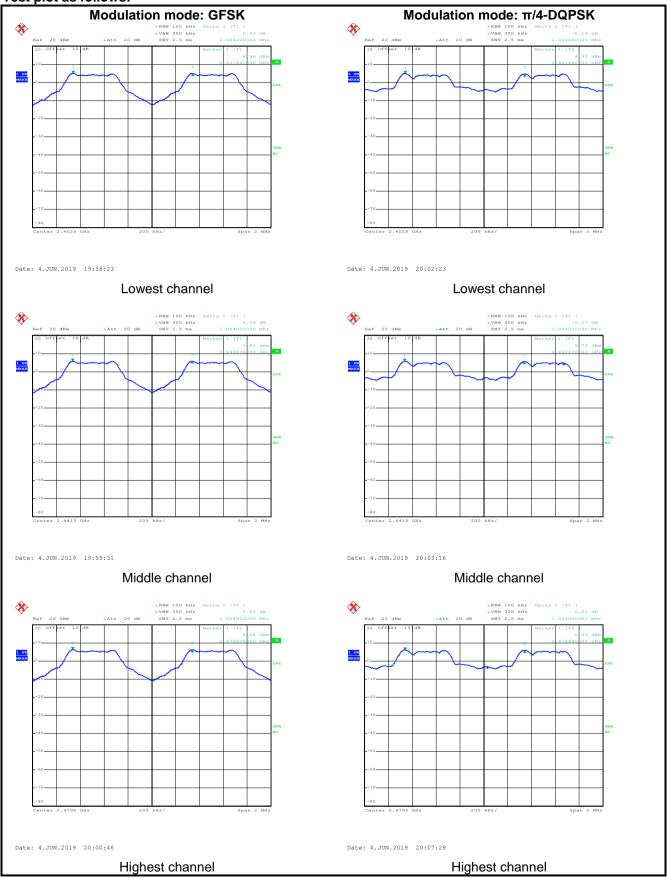
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result			
	GFSK					
Lowest	1004	860.00	Pass			
Middle	1004	860.00	Pass			
Highest	1004	860.00	Pass			
	π/4-DQPSK mode					
Lowest	1004	804.00	Pass			
Middle	1004	804.00	Pass			
Highest	1004	804.00	Pass			
	8DPSK mode					
Lowest	1004	808.00	Pass			
Middle	1000	808.00	Pass			
Highest	1004	808.00	Pass			

Note: According to section 6.4

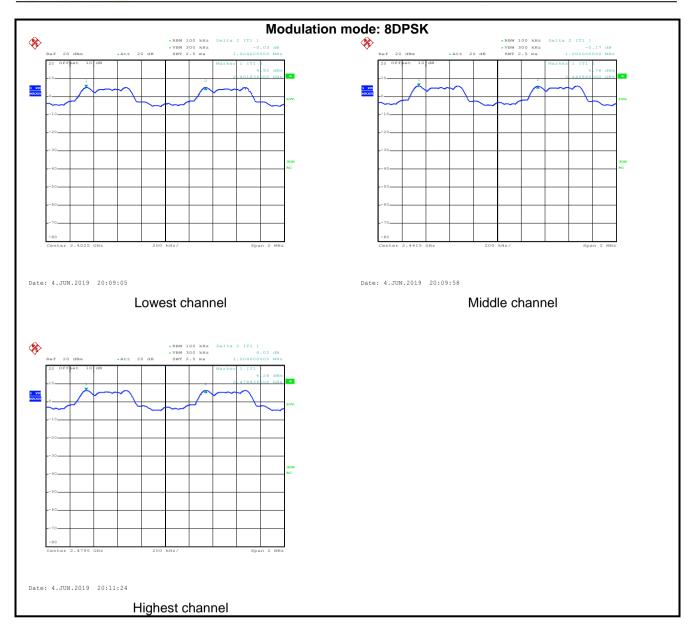
Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	860	860.00
π/4-DQPSK	1206	804.00
8DPSK	1212	808.00



Test plot as follows:









6.6 Hopping Channel Number

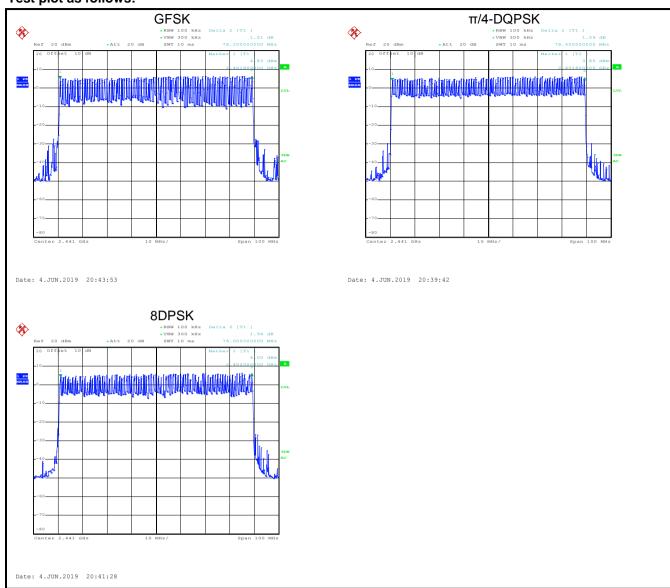
Took Dominant and	500 D 145 0 O 15 45 047 () (1)			
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)			
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Frequency range=2400MHz-2483.5MHz,			
	Detector=Peak			
Limit:	15 channels			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.8 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



Test plot as follows:





6.7 Dwell Time

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)				
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 5.8 for details				
Test mode:	Hopping mode				
Test results:	Pass				

Measurement Data (Worse case):

Mode	Packet	Dwell time (second)	Limit (second)	Result	
	DH1	0.13632			
GFSK	DH3	0.27072	0.4	Pass	
	DH5	0.31573			
	2-DH1	0.13568			
π/4-DQPSK	2-DH3	0.26976	0.4	Pass	
	2-DH5	0.31403			
	3-DH1	0.13568			
8DPSK	3-DH3	0.27360	0.4	Pass	
	3-DH5	0.31403			

Note:

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

Calculation Formula: Dwell time = Ton time per hop * Hopping numbers * Period

For example:

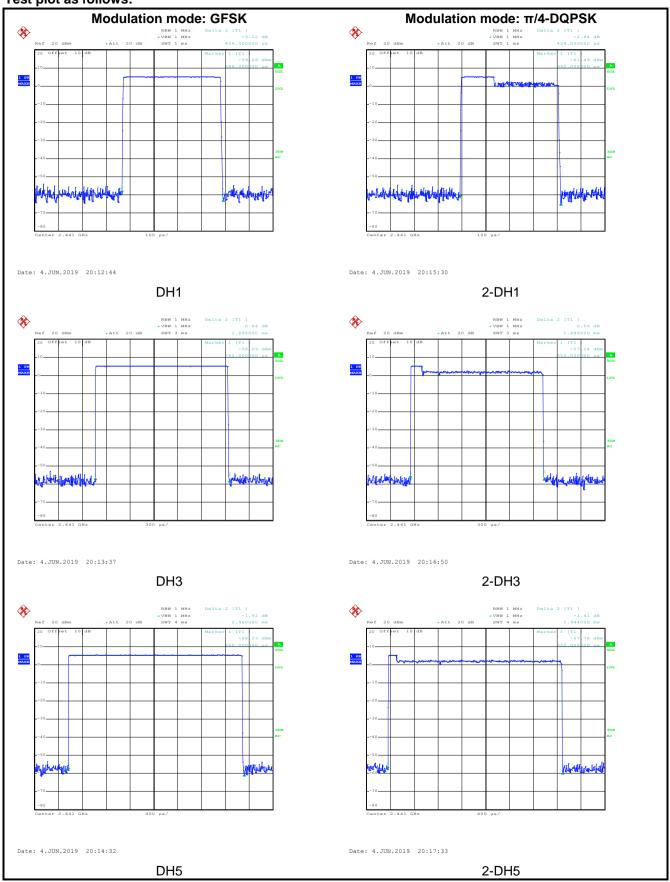
DH1 time slot=0.426*(1600/ (2*79)) * 31.6=136.32ms

DH3 time slot=1.692*(1600/ (4*79)) * 31.6=270.72ms

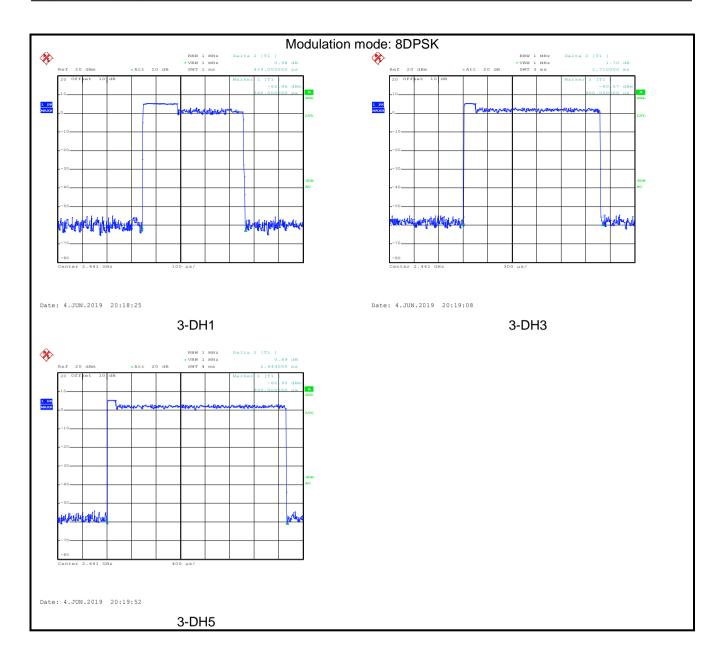
DH5 time slot=2.960*(1600/ (6*79)) * 31.6=315.73ms



Test plot as follows:









6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part 15 C Section 15.247 (a)(1) requirement:

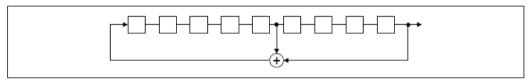
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

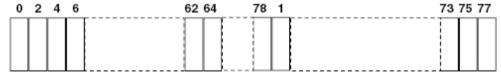
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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

- Number of shift register stages: 9
- Length of pseudo-random sequence: 29-1 = 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.



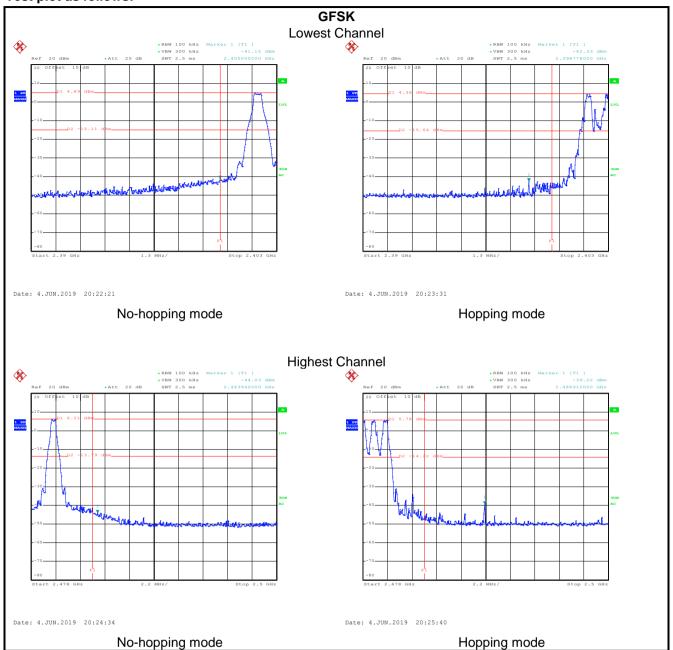
6.9 Band Edge

6.9.1 Conducted Emission Method

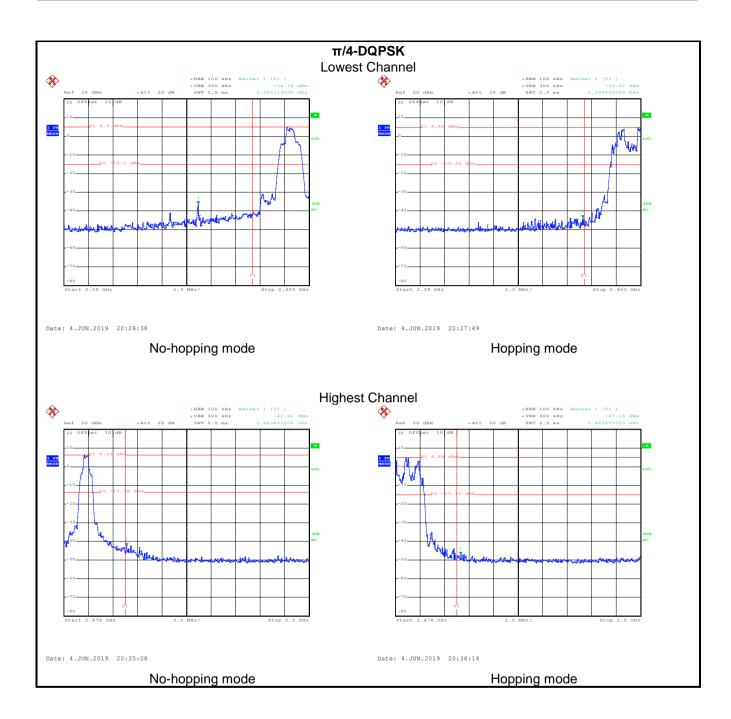
Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional 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 5.8 for details					
Test mode:	Non-hopping mode and hopping mode					
Test results:	Pass					



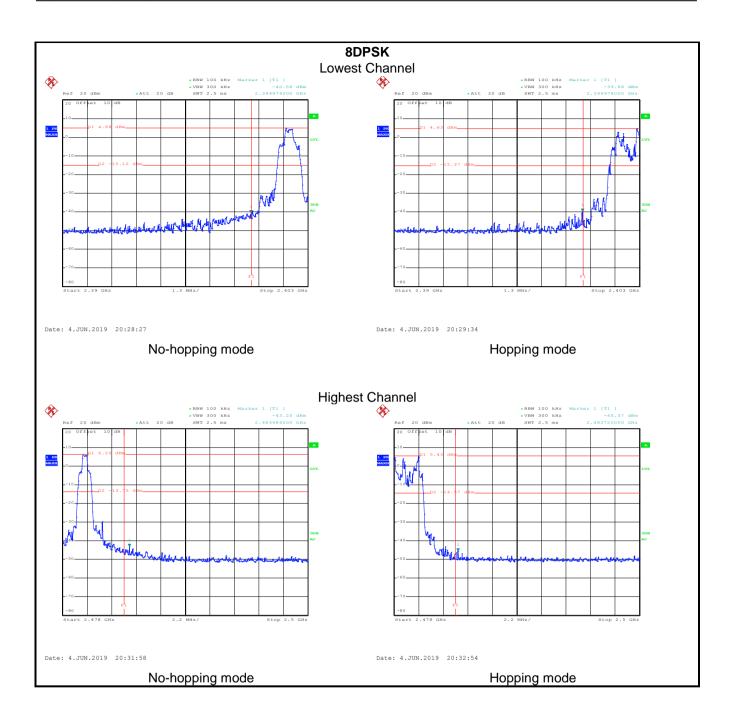
Test plot as follows:













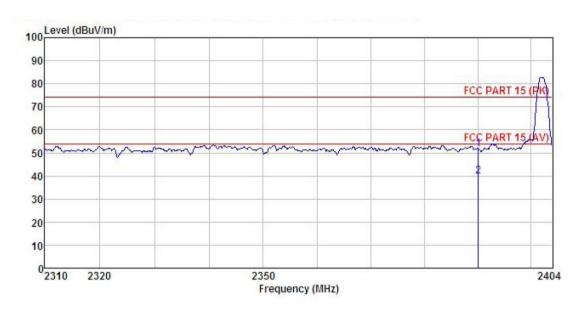
6.9.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Frequency Range:	2.3GHz to 2.5GHz								
Test Distance:	3m								
Receiver setup:	Frequency	Detector	-	RBW	V	BW	Remark		
	Al 4011	Peak		1MHz	31	MHz	Peak Value		
	Above 1GHz	RMS		1MHz	31	MHz	Average Value		
Limit:	Frequen	су	Lim	it (dBuV/m @3	3m)		Remark		
	Above 1GHz 54.00 Av						verage Value		
	Above 10	51.12		74.00		F	Peak Value		
Test setup:	Horn Antenna Tower Ground Reference Plane Test Receiver Amplifier Controller								
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. 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 								
Test Instruments:	Refer to sectio	-		d and then rep					
Test mode:	Non-hopping n	node							
Test results:	Passed								



GFSK Mode:

Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



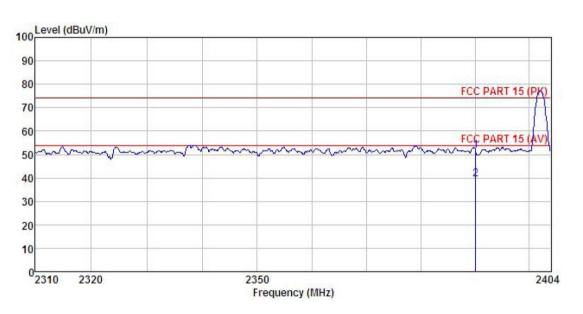
	Freq		Antenna Factor						Remark
	MHz	—dBu∜	dBuV dB/m	<u>d</u> B	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1 2	2390.000 2390.000					51.78 39.80			

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



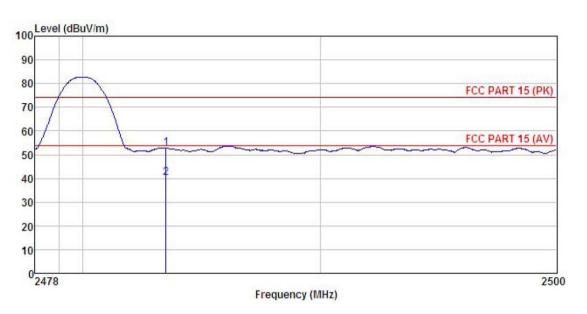
	Freq		Antenna Factor						
	MHz	−dBuV	dB/m	<u>d</u> B	<u>d</u> B	dBuV/m dBuV/		dB	
1 2	2390.000 2390.000								

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



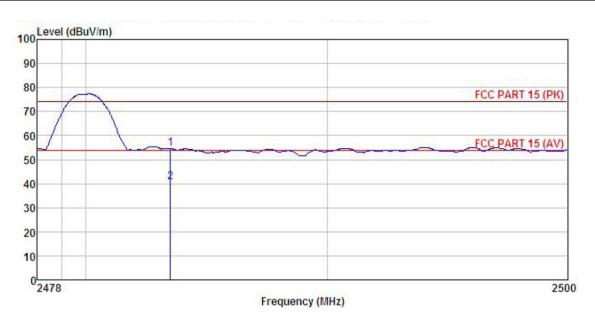
	Freq		Antenna Factor							
	MHz	dBu∇	dB/π		<u>ab</u>	dB dBuV/m dBuV/m dB				
1	2483.500	20.50	27.36	4.81	0.00	52.67	74.00	-21.33	Peak	
2	2483.500	8.13	27.36	4.81	0.00	40.30	54.00	-13.70	Average	

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



		ReadAnt enna								
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	MHz dBuV dB/m	dB	<u>d</u> B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>			
1	2483.500 2483.500					54.61 40.43				

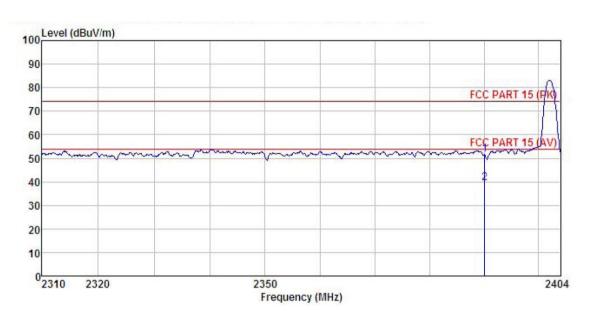
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



π/4-DQPSK mode

Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	2DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



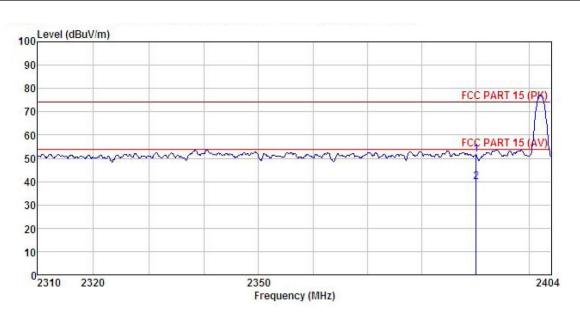
	Freq		Antenna Factor						
	MHz	MHz dBuV dB/m	dB	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>		
1 2	2390.000 2390.000								

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	2DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

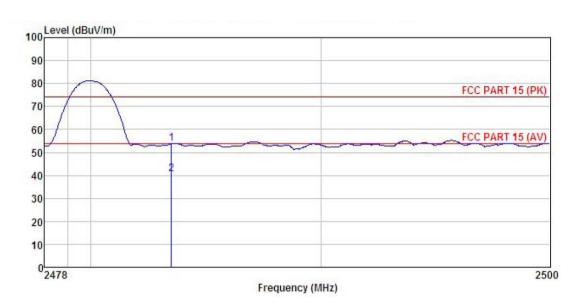


	Freq		Antenna Factor						
	MHz	dBu∜	dB/m	<u>db</u>	<u>ab</u>	dBuV/m	$\overline{\mathtt{dBuV/m}}$	<u>ab</u>	
1 2	2390.000 2390.000								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	2DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

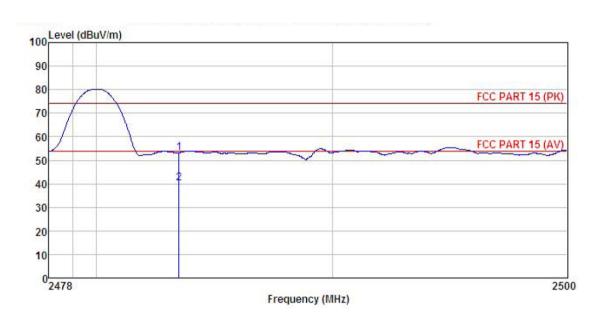


	Freq MHz		Antenna Factor					Remark
		dBu∜	dB/m	 <u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2483.500 2483.500							

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	2DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



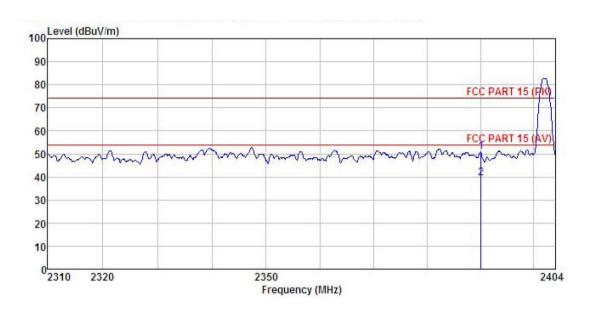
	Freq		Antenna Factor						
	MHz	—dBu∀	dB/m	<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1 2	2483.500 2483.500								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



8DPSK mode

Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	3DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



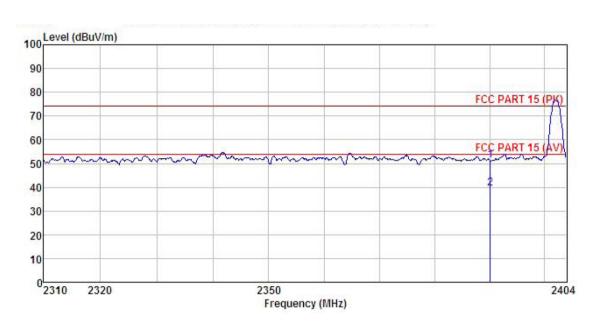
	Freq		Antenna Factor						
	MHz	MHz dBuV dB	dB/m	<u>dB</u>	<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000							-23.20 -14.60	

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	3DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

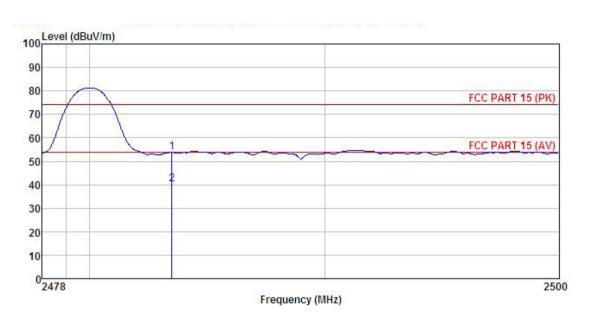


	Freq	ReadAntenna Cal Freq Level Factor L							
	MHz	MHz	z dBuV dB/m d	dB	<u>ab</u>	dBu√/m	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000					51.35 39.61			

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	3DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

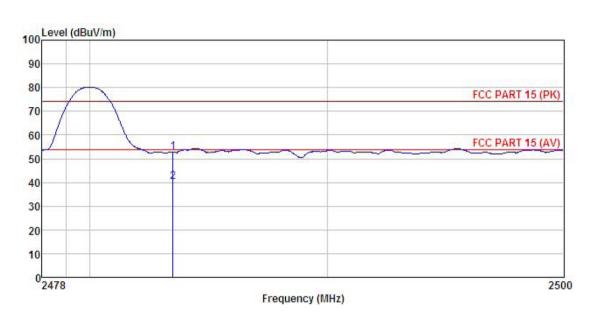


			ReadAntenna Cable Preamp Freq Level Factor Loss Factor					Over Limit	
	MHz	dBu₹	dB/m	<u>dB</u>	<u>d</u> B	$\overline{dBuV/m}$	$\overline{\mathtt{dBuV/m}}$	<u>dB</u>	
1 2	2483.500 2483.500								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	3DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq				Cable Preamp Loss Factor Leve				
	MHz	dBu₹	dB/m	<u>d</u> B	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1 2	2483.500 2483.500								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



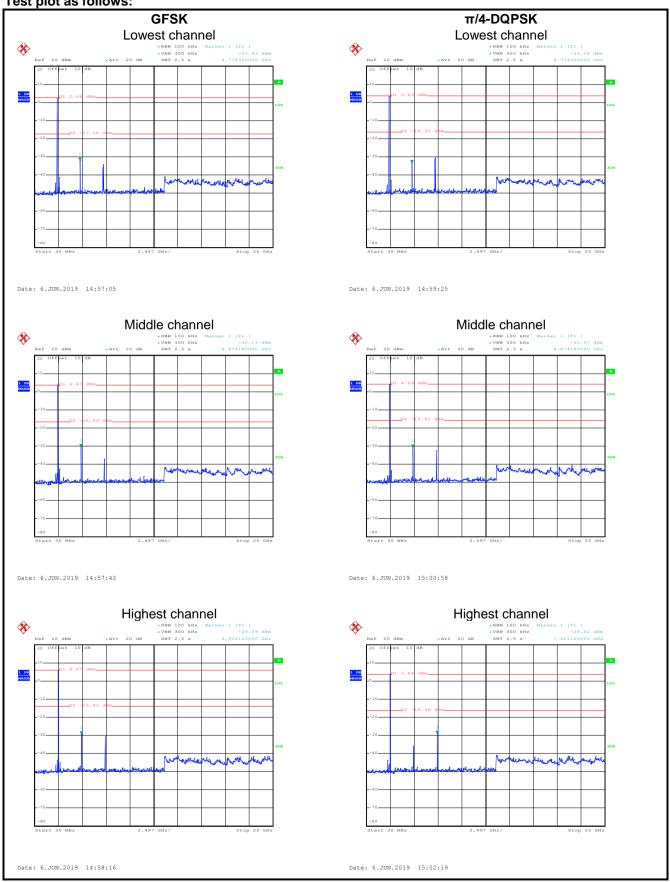
6.10 Spurious Emission

6.10.1 Conducted Emission Method

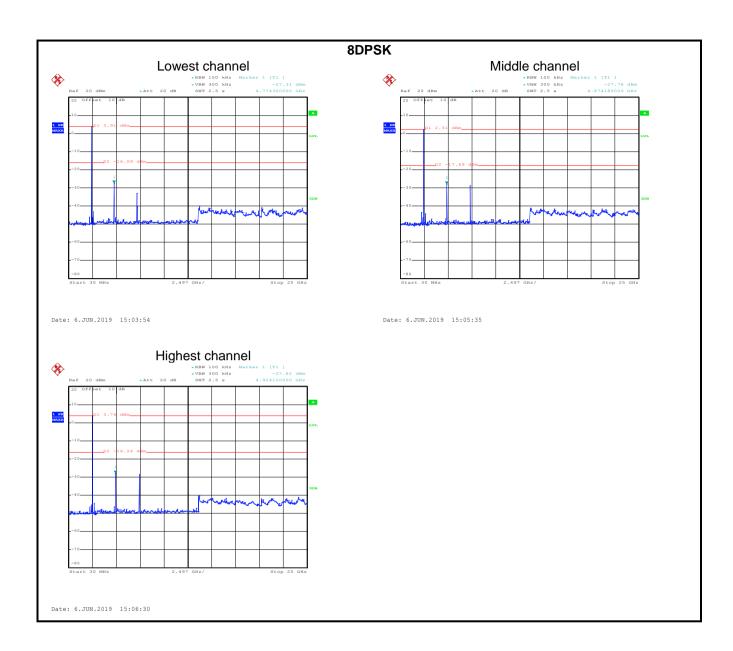
Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth 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 5.8 for details					
Test mode:	Non-hopping mode					
Test results:	Pass					



Test plot as follows:









6.10.2 Radiated Emission Method

Test Requirement: Test Procedure: Test Procedure: Test Procedure: FCC Part 15 C Section 15.209 9 kHz to 25 GHz 3m Receiver setup: Frequency Detector RBW VBW Remark 30MHz-1GHz Quasi-peak 120kHz 300kHz Quasi-peak Value Above 1GHz RMS 1MHz 3MHz Average Value Frequency Limit (dBuV/m @3m) Remark 30MHz-86MHz 40.0 Quasi-peak Value 88MHz-216MHz 43.5 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value 960MHz-1GHz 54.0 Average Value Above 1GHz Test setup: Below 1GHz Test setup: Test Procedure: 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) // 1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest relation.	6.10.2 Radiated Emission Mo	etnoa								
Test Distance: Receiver setup: Frequency 30MHz-1GHz Quasi-peak 120kHz 300kHz Quasi-peak Value Peak 10MHz 130kHz	Test Requirement:	FCC Part 15 C								
Receiver setup: Frequency	Test Frequency Range:	9 kHz to 25 GHz								
30MHz-1GHz Quasi-peak 120kHz 300kHz Quasi-peak Value RMS 1MHz 3MHz Peak Value RMS 1MHz 3MHz Average Value RMS 1MHz 3MHz Average Value Limit (BBuV/m @3m) Remark 30MHz-88MHz 40.0 Quasi-peak Value 88MHz-216MHz 43.5 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value Above 1GHz 74.0 Peak Value Peak Value Test setup: Test setup: Below 1GHz Test setup: 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest	Test Distance:	3m	3m							
Above 1GHz Peak 1MHz 3MHz Peak Value RMS 1MHz 3MHz Average Value RMS 1MHz 3MHz Average Value SMHz-88MHz 40.0 Quasi-peak Value 88MHz-216MHz 43.5 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value Above 1GHz 74.0 Peak Value Test setup: Test setup: Below 1GHz	Receiver setup:	Frequency	Frequency Detector RBW VBW Re							
Above 1GHz RMS 1MHz 3MHz Average Value Frequency Limit (dBuV/m @3m) Remark 30MHz-88MHz 40.0 Quasi-peak Value 88MHz-216MHz 43.5 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value Above 1GHz 74.0 Peak Value Test setup: Below 1GHz Test Procedure: 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest		30MHz-1GHz	Iz Quasi-peak Value							
RMS 1MHz 3MHz Average Value Frequency Limit (dBuV/m @ 3m) Remark 30MHz-88MHz 40.0 Quasi-peak Value 88MHz-216MHz 43.5 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value Above 1GHz 74.0 Peak Value Below 1GHz Test setup: Below 1GHz Test Procedure: 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) //1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest		Above 1GHz	Peak	1MHz	3MH	z Peak Value				
30MHz-88MHz 88MHz-216MHz 40.0 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value Above 1GHz 74.0 Peak Value Test setup: Below 1GHz Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower FF Test Receiver Antenna Tower Antenna Tower		Above 10112	RMS	1MHz	3MH	z Average Value				
## Above 1GHz ## Antenna Tower ## Above 1GHz ## Antenna Tower ##	Limit:	Frequenc	y Lir	nit (dBuV/m @	23m)	Remark				
216MHz-960MHz 960MHz-1GHz Above 1GHz Test setup: Below 1GHz Below 1GHz Antenna Towor Ante		30MHz-88N	1Hz	40.0		Quasi-peak Value				
960MHz-1GHz Above 1GHz Test setup: Below 1GHz Below 1GHz Antenna Tower Search Antenna Tower Frozend Plane Above 1GHz Test Procedure: 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) //1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest		88MHz-216	ИHz	43.5		Quasi-peak Value				
Above 1GHz Test setup: Below 1GHz Below 1GHz Antenna Tower Antenna Tower Antenna Tower Antenna Tower For the Receiver For the Receiver Antenna Tower Antenna Tower Antenna Tower For the Receiver For the Receiver Test Procedure: 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) // 1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest		216MHz-960	MHz	46.0		Quasi-peak Value				
Test Procedure: 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) 1. Sm(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest		960MHz-1G	SHz	54.0		Quasi-peak Value				
Test Procedure: 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) 1. Sm(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest		Ahove 1GI	-l7	54.0		Average Value				
Antenna Tower Scarch Antenna RF Test Receiver Antenna Ground Plane Above 1GHz Test Procedure: 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest		710070 101	12	74.0		Peak Value				
Test Procedure: 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest	Tool ootap.	EUT To Ta Groun	4m 0.8m A	lm		Search Antenna RF Test Receiver				
	Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The tab								





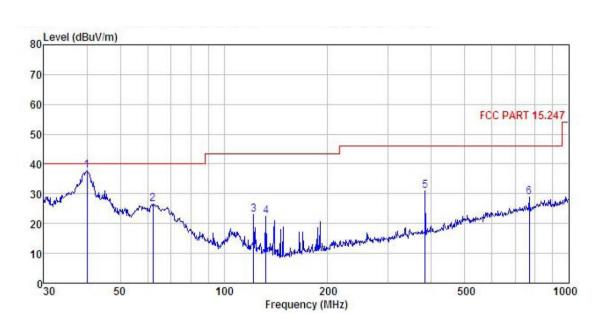
	antenna, which was mounted on the top of a variable-height antenna tower.
	 The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. 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 5.8 for details
Test mode:	Non-hopping mode
Test results:	Pass
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30 MHz is noise floor, so only shows the data of above
	30MHz in this report.



Measurement Data (worst case):

Below 1GHz:

Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	BT Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



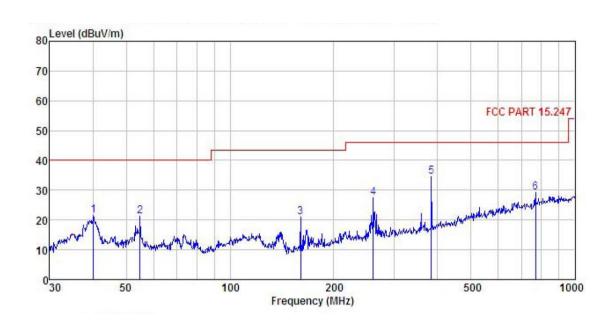
	Freq		Antenna Factor				Limit Line		Remark
	MHz	dBu∜	dB/π		<u>d</u> B	dBu√/m	$\overline{dBuV/m}$	<u>dB</u>	
1	39.994	54.25	12.36	1.21	29.90	37.92	40.00	-2.08	QP
2 3 4	62.213	44.46	10.55	1.38	29.77	26.62	40.00	-13.38	QP
3	121.976	39.47	10.74	2.19	29.38	23.02	43.50	-20.48	QP
4	132.221	39.47	10.02	2.32	29.32	22.49	43.50	-21.01	QP
5	383.932	41.41	15.08	3.09	28.71	30.87	46.00	-15.13	QP
6	768.748	32.07	20.94	4.36	28.37	29.00	46.00	-17.00	QP

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	G1 Porto
Test By:	Mike	Test mode:	BT Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



	Freq		Intenna Factor				Limit Line		Remark
_	MHz	dBu∜	<u>dB</u> /m	dB	<u>dB</u>	dBuV/m	dBuV/m	dB	
1	40.135	37.71	12.40	1.22	29.90	21.43	40.00	-18.57	QP
2	54.835	37.99	11.60	1.36	29.80	21.15	40.00	-18.85	QP
3	160.346	38.10	9.29	2.59	29.13	20.85	43.50	-22.65	QP
4	260.144	40.35	12.89	2.84	28.52	27.56	46.00	-18.44	QP
5	383.932	45.15	15.08	3.09	28.71	34.61	46.00	-11.39	QP
2 3 4 5 6	768.748	32.19	20.94	4.36	28.37	29.12	46.00	-16.88	QP

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Above 1GHz:

Test channel: Lowest channel											
Detector: Peak Value											
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	58.05	30.85	6.80	41.81	53.89	74.00	-20.11	Vertical			
4804	52.79	30.85	6.80	41.81	48.63	74.00	-25.37	Horizontal			
			Dete	ector: Avera	ge Value						
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	40.53	30.85	6.80	41.81	36.37	54	-17.63	Vertical			
4804.00	38.09	30.85	6.80	41.81	33.93	54	-20.07	Horizontal			
			T								
				nannel: Midd							
		1		tector: Peal	(Value		T				
Frequency (MHz) Read Level Factor (dBuV) (dB/m) (dB) Preamp Factor (dBuV/m) Level (dBuV/m) Cable Loss (dB) Factor (dBuV/m) Level (dBuV/m) Cable Cable Level (dBuV/m) Cable Cab											
4882.00	55.76	31.20	6.86	41.84	51.98	74.00	-22.02	Vertical			
4882.00	54.42	31.20	6.86	41.84	50.64	74.00	-23.36	Horizontal			
			Dete	ector: Avera	ge Value						

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	39.56	31.20	6.86	41.84	35.78	54.00	-18.22	Vertical
4882.00	38.41	31.20	6.86	41.84	34.63	54.00	-19.37	Horizontal

Test channel: Highest channel												
Detector: Peak Value												
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	55.97	31.63	6.91	41.87	52.64	74.00	-21.36	Vertical				
4960.00	54.86	31.63	6.91	41.87	51.53	74.00	-22.47	Horizontal				
Detector: Average Value												
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	40.06	31.63	6.91	41.87	36.73	54.00	-17.27	Vertical				
4960.00	39.87	31.63	6.91	41.87	36.54	54.00	-17.46	Horizontal				

Remark

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.