

FCC REPORT

Applicant: Nexus Telecom Inc.

Address of Applicant: PO Box 873, Venterpool Plaza 873 Road Town, Tortola Virgin Islands (British)

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: GO763

FCC ID: YSEGO763

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

Date of sample receipt: 21 Apr., 2015

Date of Test: 22 Apr., to 25 May 2015

Date of report issued: 26 May 2015

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	26 May 2015	Original

Prepared by:
Sera Xiong**Date:**

26 May 2015

Report Clerk

Reviewed by:
Wimer Zhang**Date:**

26 May 2015

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:	Nexus Telecom Inc.
Address of Applicant:	PO Box 873, Venterpool Plaza 873 Road Town, Tortola Virgin Islands (British)
Manufacturer/ Factory:	United Time Technology Co., Ltd.
Address of Manufacturer/ Factory:	7/F., 5-A Building, Software Industrial Bases, No. 1006 Keyuan Road, Nanshan District, Shenzhen, p.r. China

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	GO763
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:	1.72 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1200mAh
AC adapter:	Input:100-240V AC,50/60Hz 0.15A Output:5V DC MAX 700mA

Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK							
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		

Remark: Channel 0, 39 &78 selected for GFSK, π/4-DQPSK and 8DPSK.

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	08-23-2014	08-22-2017
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	03-28-2015	03-28-2016
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016
6	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016
7	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
11	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	03-28-2015	03-28-2016
12	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	03-28-2015	03-28-2016
13	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016
14	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	03-28-2015	03-28-2016
15	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-08-2015	04-08-2016

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	11-10-2012	11-09-2015
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016
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 Part 15 C Section 15.203 /247(c)
15.203 requirement: <i>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.</i>	
15.247(c) (1)(i) requirement: <i>(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.</i>	
E.U.T Antenna:	<p>The Bluetooth antenna is an integral antenna which permanently attached, and the best case gain of the antenna is 1.72 dBi.</p> 

6.2 Conducted Emissions

Test Requirement:	FCC Part 15 C Section 15.207		
Test Method:	ANSI C63.4:2009		
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)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50

* Decreases with the logarithm of the frequency.

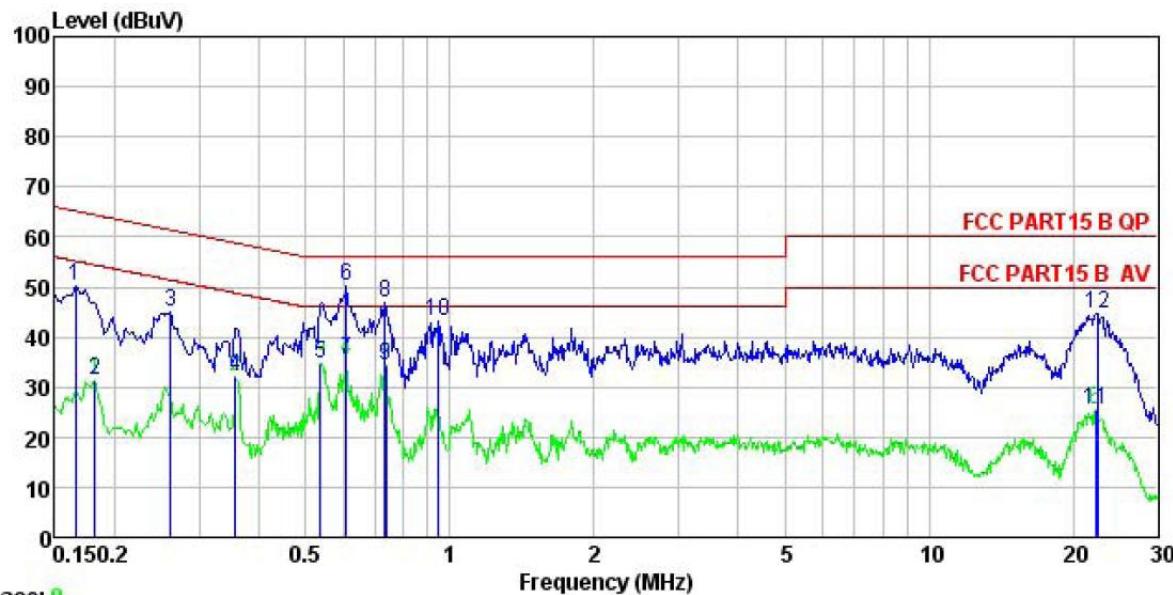
Test setup:	<p>Reference Plane</p> <p>LISN</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>EMI Receiver</p> <p>Filter</p> <p>AC power</p> <p>Test table/Insulation plane</p> <p>40cm</p> <p>80cm</p> <p>Test table height=0.8m</p>
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Remark
E.U.T: Equipment Under Test
LISN: Line Impedance Stabilization Network
Test table height=0.8m

Test procedure:	<ol style="list-style-type: none"> 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 transmitting) mode
Test results:	Pass

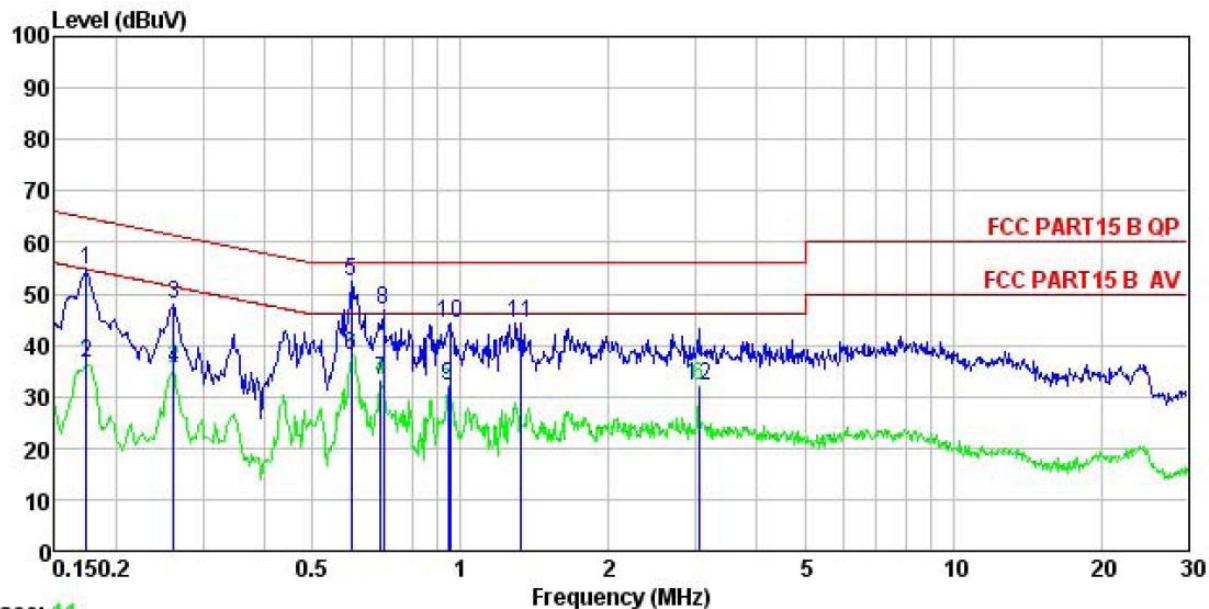
Measurement Data

Line:



Trace: 9
Site : CCIS Shielding Room
Condition : FCC PART15 B QP LISN LINE
Job No. : 250RF
EUT : Phone_WCDMA
Model : G0763
Test Mode : BT mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Humi:56% Atmos:101KPa
Test Engineer: MT
Remark :

	Read Freq	LISN Level	Cable Factor	Limit Loss	Over Line Level	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB
1	0.166	38.99	0.27	10.77	50.03	65.16	-15.13 QP
2	0.182	20.34	0.28	10.77	31.39	54.42	-23.03 Average
3	0.262	33.88	0.27	10.75	44.90	61.38	-16.48 QP
4	0.358	20.93	0.27	10.73	31.93	48.78	-16.85 Average
5	0.538	23.62	0.28	10.76	34.66	46.00	-11.34 Average
6	0.608	39.07	0.25	10.77	50.09	56.00	-5.91 QP
7	0.608	24.51	0.25	10.77	35.53	46.00	-10.47 Average
8	0.731	36.00	0.22	10.78	47.00	56.00	-9.00 QP
9	0.735	23.45	0.22	10.79	34.46	46.00	-11.54 Average
10	0.948	31.94	0.25	10.85	43.04	56.00	-12.96 QP
11	22.298	14.28	0.42	10.90	25.60	50.00	-24.40 Average
12	22.416	33.26	0.43	10.90	44.59	60.00	-15.41 QP

Neutral:

Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job No. : 250RF
 EUT : Phone_WCDMA
 Model : G0763
 Test Mode : BT mode
 Power Rating : AC 120/60Hz
 Environment : Temp: 23 °C Huni:56% Atmos:101KPa
 Test Engineer: MT
 Remark :

	Read Freq	LISN Level	Cable Factor	Limit Loss	Over Line Level	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dB	
1	0.174	43.53	0.25	10.77	54.55	64.77	-10.22 QP
2	0.174	25.48	0.25	10.77	36.50	54.77	-18.27 Average
3	0.262	37.12	0.26	10.75	48.13	61.38	-13.25 QP
4	0.262	24.57	0.26	10.75	35.58	51.38	-15.80 Average
5	0.601	41.25	0.23	10.77	52.25	56.00	-3.75 QP
6	0.601	27.17	0.23	10.77	38.17	46.00	-7.83 Average
7	0.690	22.20	0.19	10.77	33.16	46.00	-12.84 Average
8	0.697	35.82	0.18	10.77	46.77	56.00	-9.23 QP
9	0.943	20.91	0.21	10.85	31.97	46.00	-14.03 Average
10	0.953	33.17	0.21	10.86	44.24	56.00	-11.76 QP
11	1.331	33.03	0.25	10.91	44.19	56.00	-11.81 QP
12	3.041	20.75	0.29	10.92	31.96	46.00	-14.04 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

6.3 Conducted Output Power

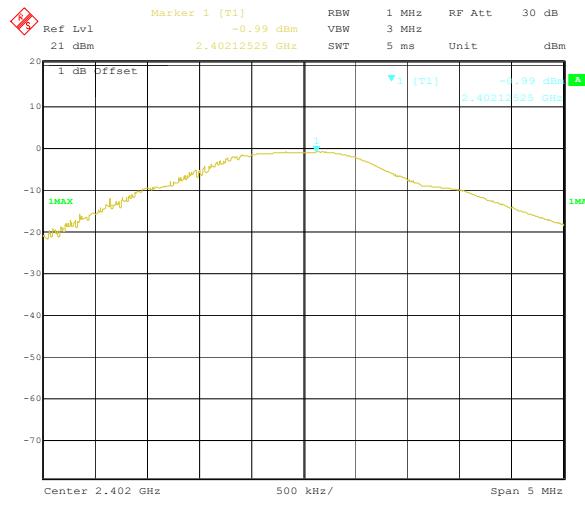
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2009 and DA00-705
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤ 1 MHz) RBW=3MHz, VBW=10MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)
Limit:	125 mW(21 dBm)
Test setup:	 <p>The diagram illustrates the test setup for conducted output power. A Spectrum Analyzer is connected to the Equipment Under Test (E.U.T) via a cable. The E.U.T is placed on a Non-Conducted Table. The entire assembly sits on a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Measurement Data

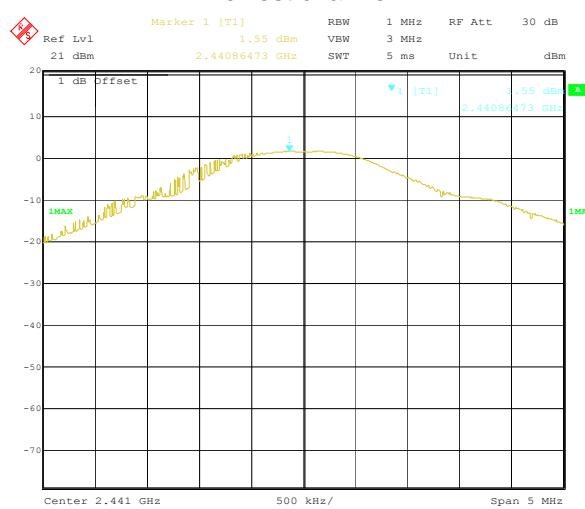
GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.99	21.00	Pass
Middle	1.55	21.00	Pass
Highest	3.71	21.00	Pass
π/4-DQPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	0.51	21.00	Pass
Middle	3.07	21.00	Pass
Highest	5.36	21.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	0.31	21.00	Pass
Middle	2.82	21.00	Pass
Highest	5.11	21.00	Pass

Test plot as follows:

Modulation mode: GFSK



Lowest channel

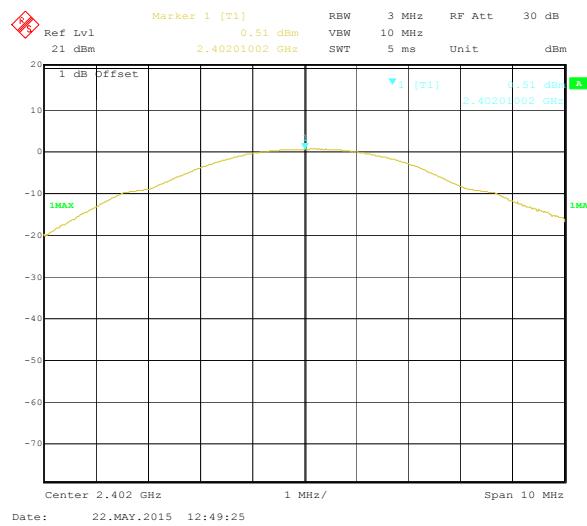


Middle channel

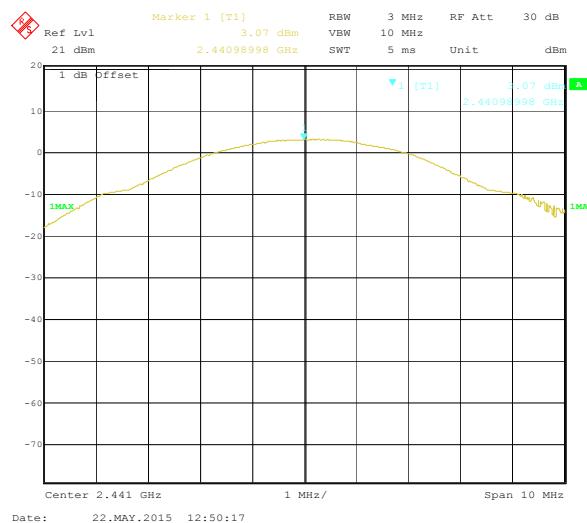


Highest channel

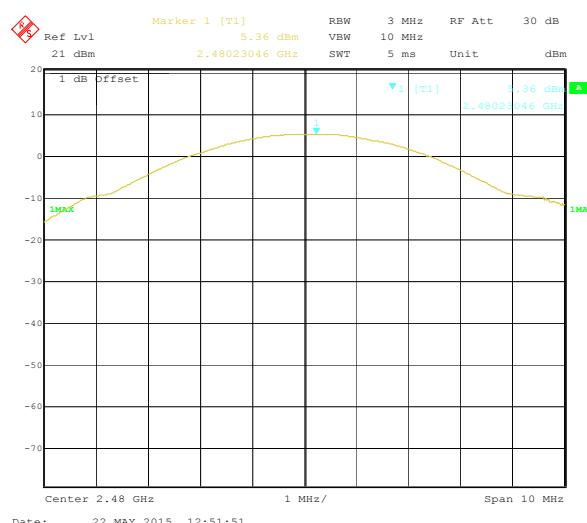
Modulation mode: $\pi/4$ -DQPSK



Lowest channel

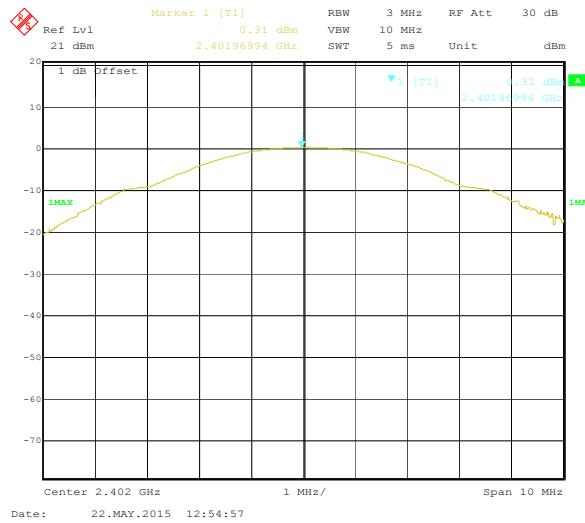


Middle channel

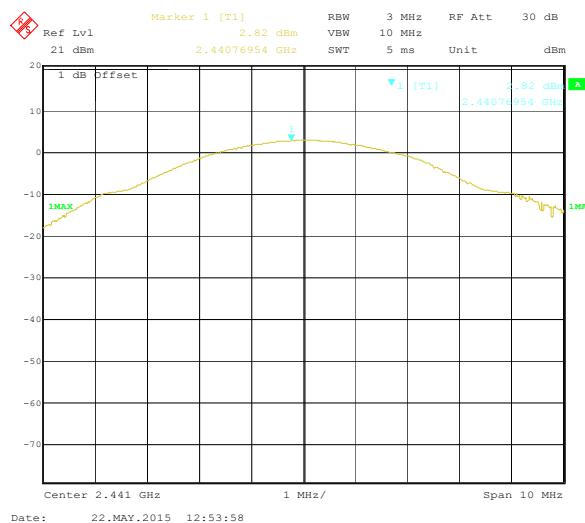


Highest channel

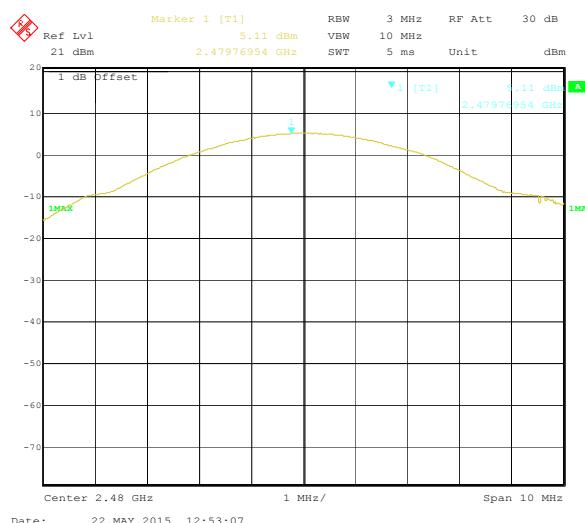
Modulation mode: 8DPSK



Lowest channel



Middle channel



Highest channel

6.4 20dB Occupy Bandwidth

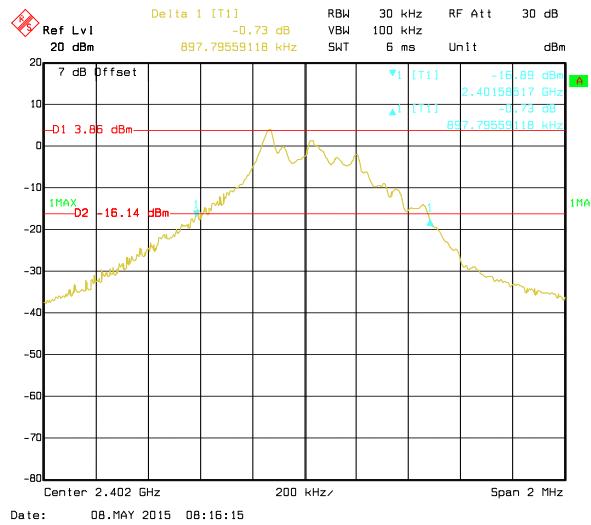
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2009 and DA00-705
Receiver setup:	RBW=30 kHz, VBW=100 kHz, detector=Peak
Limit:	NA
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is positioned at the top left, displaying a signal waveform. A red line connects it to a rectangular box labeled 'E.U.T' (Equipment Under Test) located to its right. This setup rests on a horizontal surface labeled 'Non-Conducted Table'. Below the table is a thick grey bar labeled 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Measurement Data

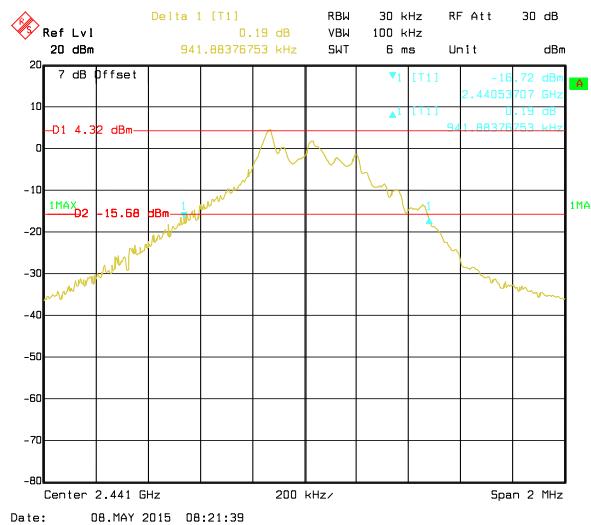
Test channel	20dB Occupy Bandwidth (kHz)		
	GFSK	$\pi/4$ -DQPSK	8DPSK
Lowest	897.80	1146.29	1162.32
Middle	941.88	1134.27	1162.32
Highest	925.85	1130.26	1166.33

Test plot as follows:

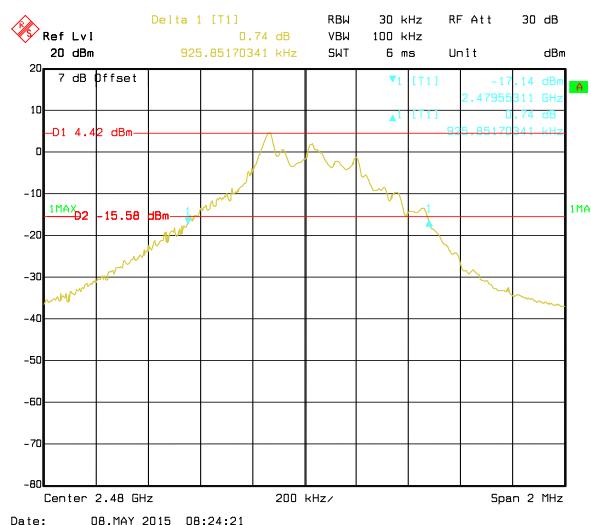
Modulation mode: GFSK



Lowest channel

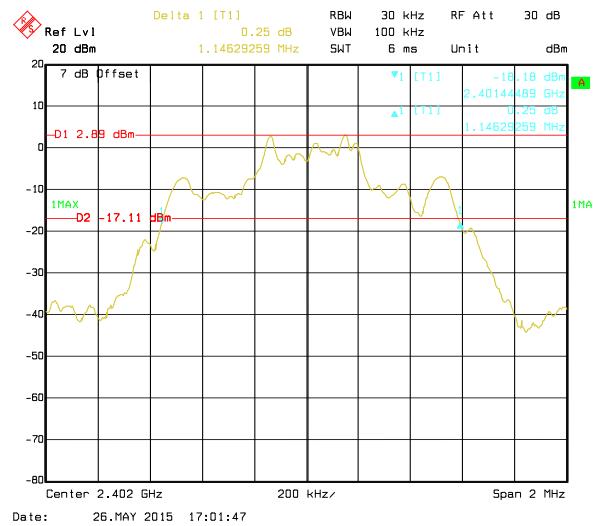


Middle channel

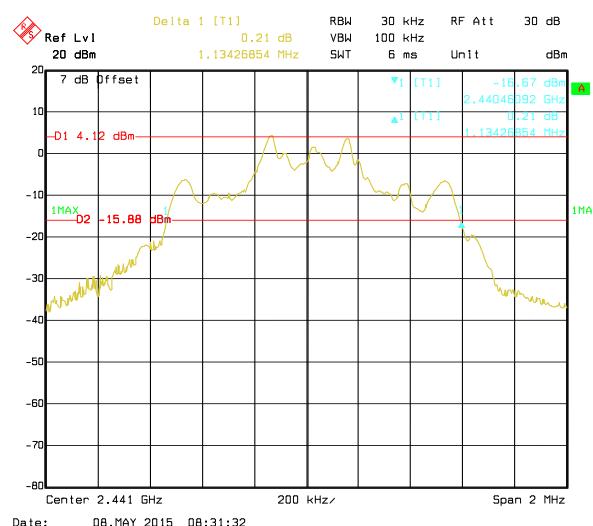


Highest channel

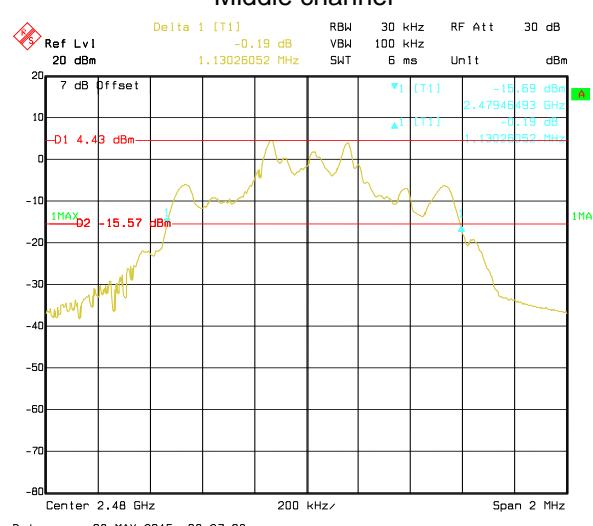
Modulation mode: π/4-DQPSK



Lowest channel

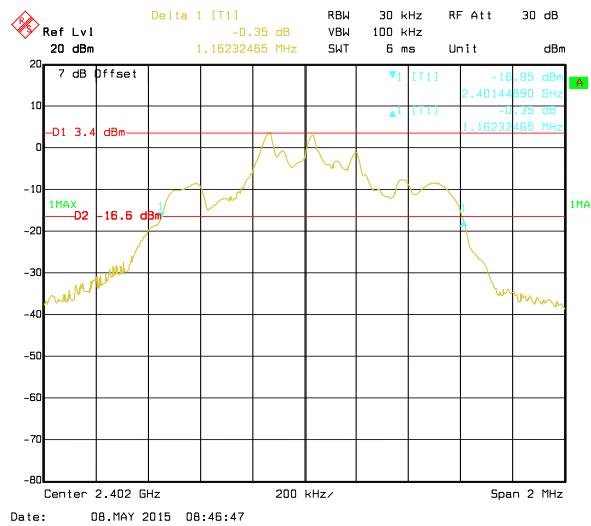


Middle channel

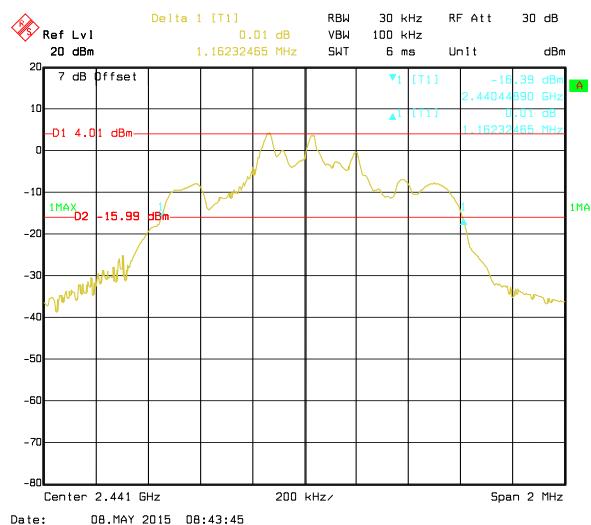


Highest channel

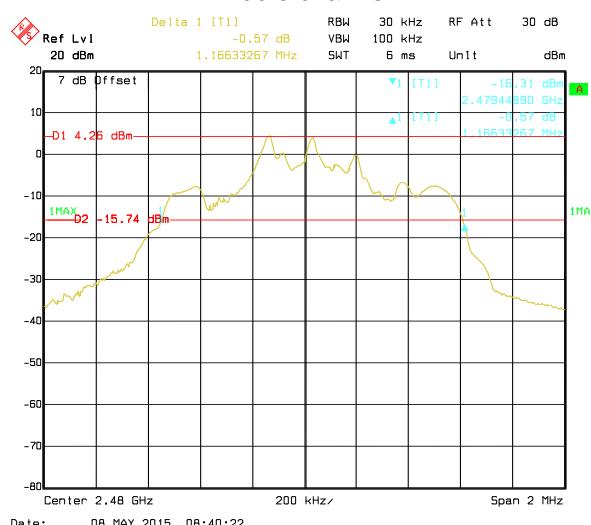
Modulation mode: 8DPSK



Lowest channel



Middle channel



Highest channel

6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2009 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:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Hopping mode
Test results:	Pass

Measurement Data

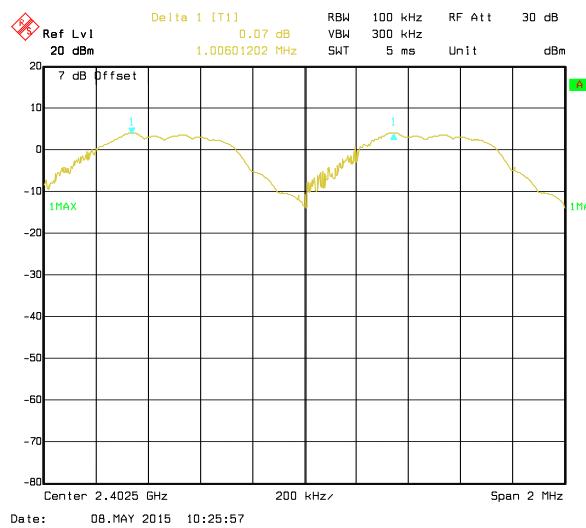
GFSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1006	627.92	Pass
Middle	1002	627.92	Pass
Highest	1006	627.92	Pass
$\pi/4$ -DQPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1006	764.19	Pass
Middle	1002	764.19	Pass
Highest	1002	764.19	Pass
8DPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1002	777.55	Pass
Middle	1002	777.55	Pass
Highest	1002	777.55	Pass

Note: According to section 6.4

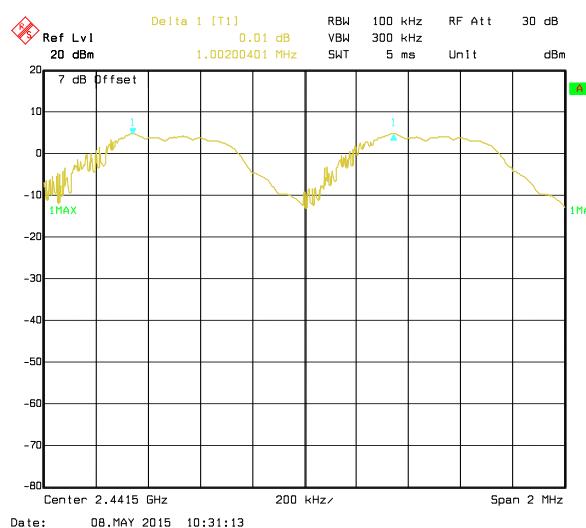
Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	941.88	627.92
$\pi/4$ -DQPSK	1146.29	764.19
8DPSK	1166.33	777.55

Test plot as follows:

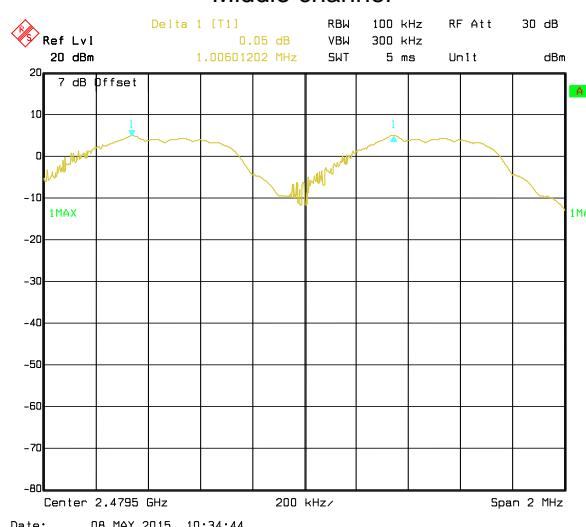
Modulation mode: GFSK



Lowest channel

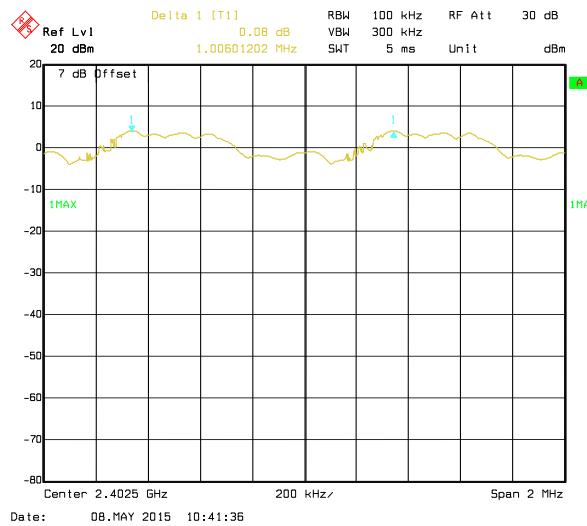


Middle channel

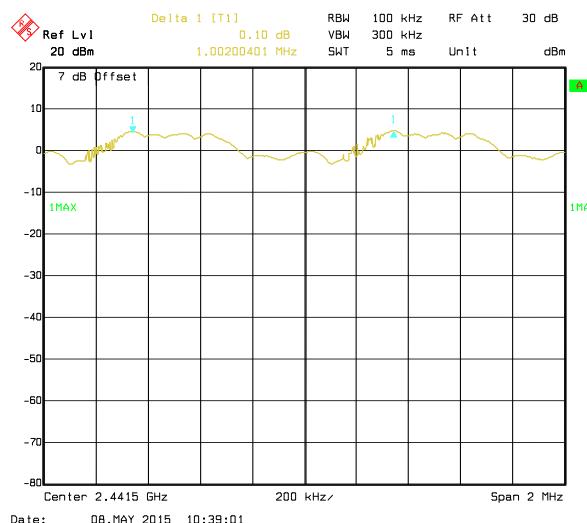


Highest channel

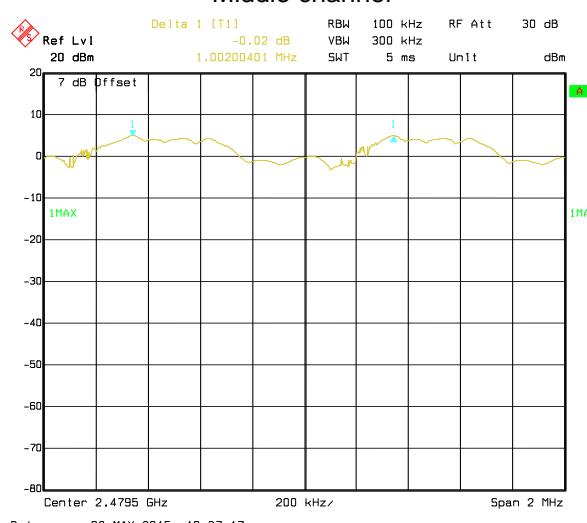
Modulation mode: $\pi/4$ -DQPSK



Lowest channel

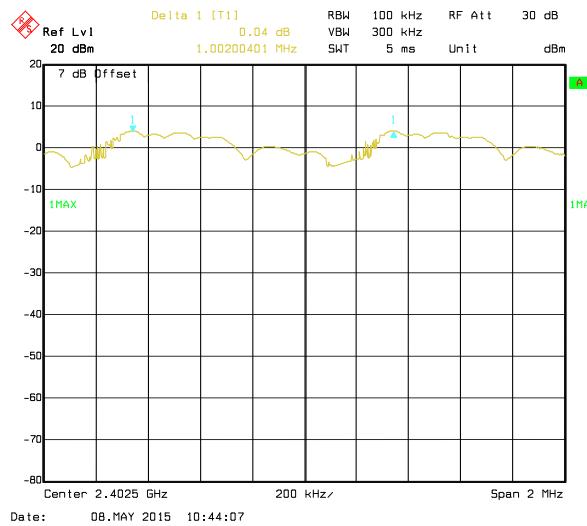


Middle channel

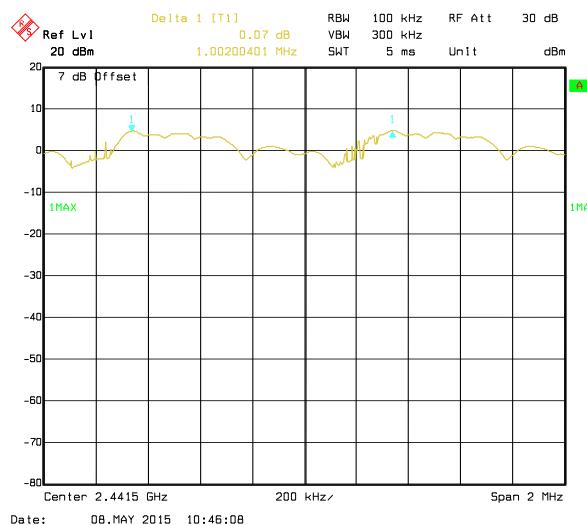


Highest channel

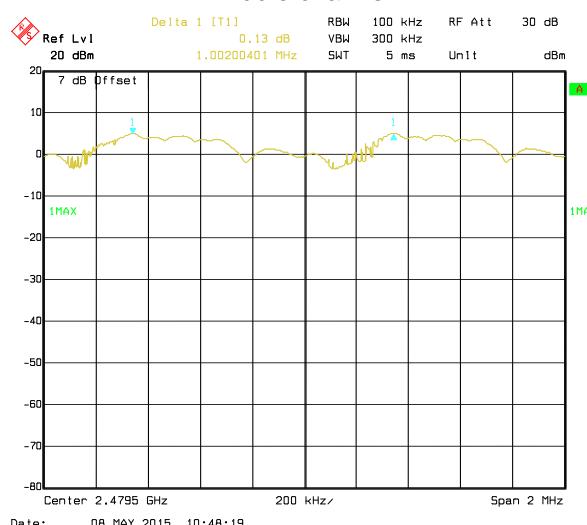
Modulation mode: 8DPSK



Lowest channel

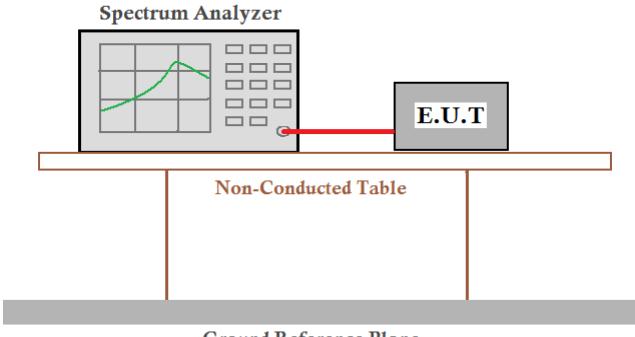


Middle channel



Highest channel

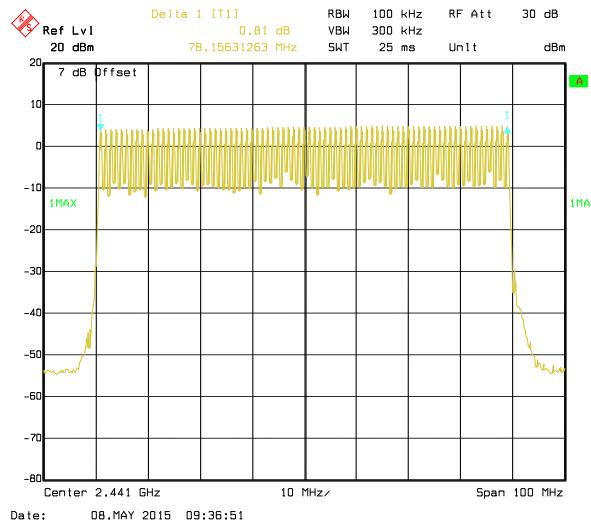
6.6 Hopping Channel Number

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2009 and DA00-705
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Hopping mode
Test results:	Pass

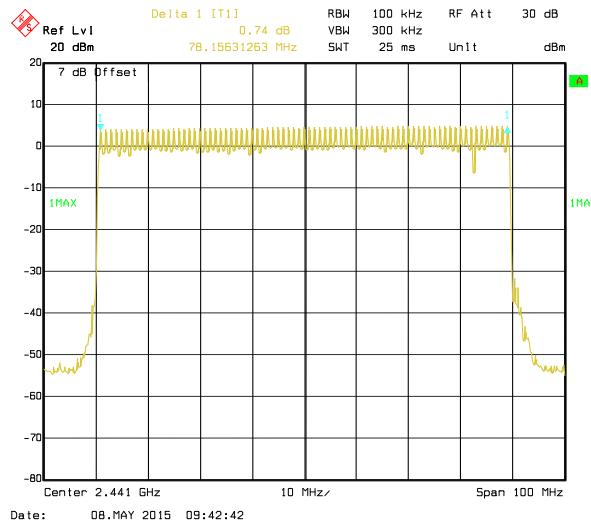
Measurement Data:

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

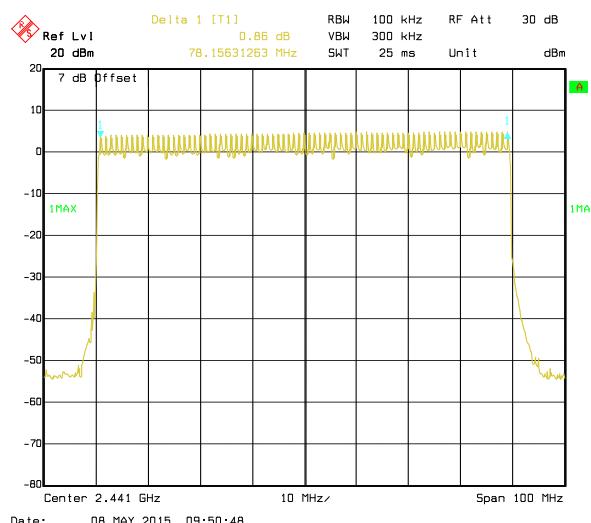
GFSK



$\pi/4$ -DQPSK



8DPSK



6.7 Dwell Time

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2009 and KDB DA00-705
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	
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
GFSK	DH1	0.15904	0.4	Pass
	DH3	0.28288		
	DH5	0.32405		
$\pi/4$ -DQPSK	2-DH1	0.15904	0.4	Pass
	2-DH3	0.28288		
	2-DH5	0.32149		
8DPSK	3-DH1	0.15840	0.4	Pass
	3-DH3	0.28096		
	3-DH5	0.32405		

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

The test period: $T = 0.4 \text{ Second}/\text{Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

$$\text{DH1 time slot} = 0.497 * (1600 / (2 * 79)) * 31.6 = 159.04 \text{ ms}$$

$$\text{DH3 time slot} = 1.768 * (1600 / (4 * 79)) * 31.6 = 282.88 \text{ ms}$$

$$\text{DH5 time slot} = 3.038 * (1600 / (6 * 79)) * 31.6 = 324.05 \text{ ms}$$

$$2-\text{DH1 time slot} = 0.497 * (1600 / (2 * 79)) * 31.6 = 159.04 \text{ ms}$$

$$2-\text{DH3 time slot} = 1.768 * (1600 / (4 * 79)) * 31.6 = 282.88 \text{ ms}$$

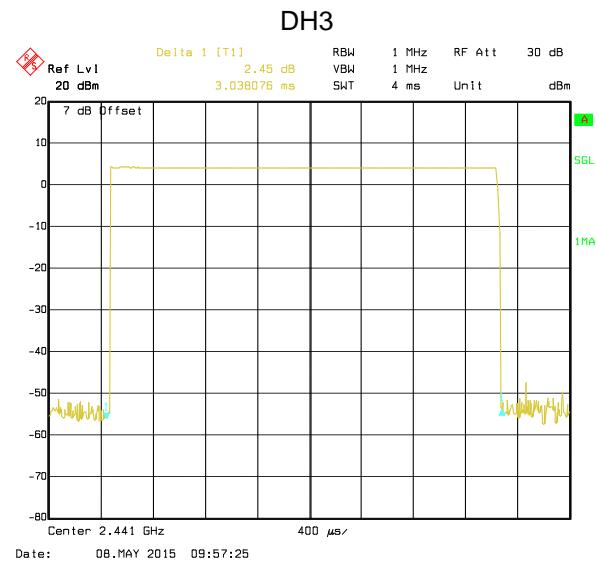
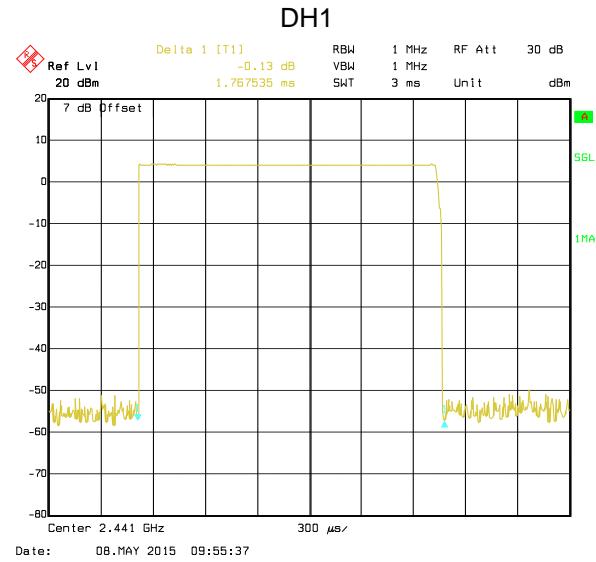
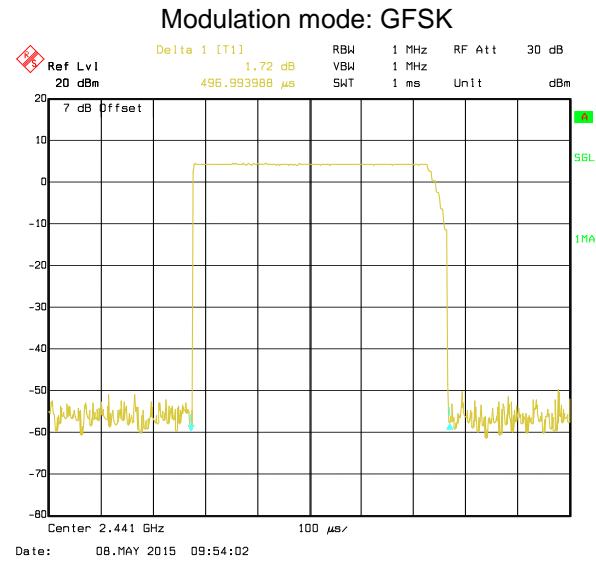
$$2-\text{DH5 time slot} = 3.014 * (1600 / (6 * 79)) * 31.6 = 321.49 \text{ ms}$$

$$3-\text{DH1 time slot} = 0.495 * (1600 / (2 * 79)) * 31.6 = 158.40 \text{ ms}$$

$$3-\text{DH3 time slot} = 1.756 * (1600 / (4 * 79)) * 31.6 = 280.96 \text{ ms}$$

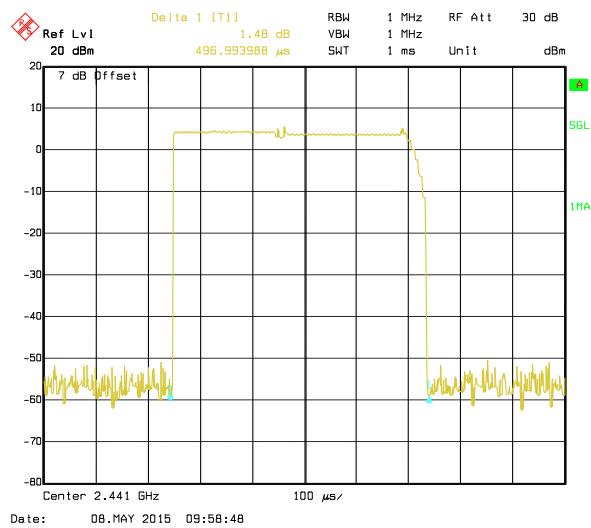
$$3-\text{DH5 time slot} = 3.038 * (1600 / (6 * 79)) * 31.6 = 324.05 \text{ ms}$$

Test plot as follows:

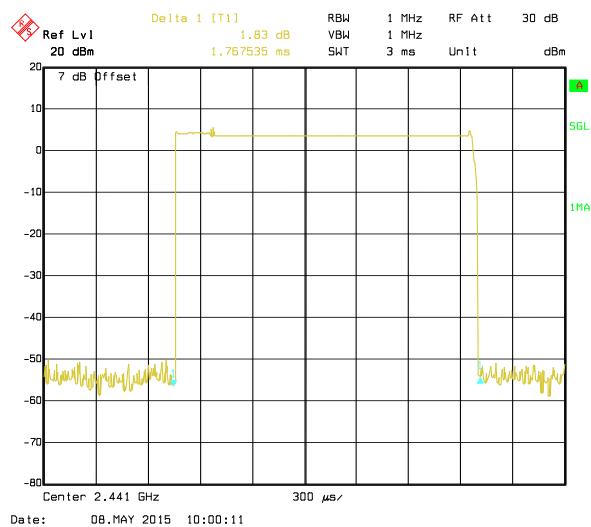


DH5

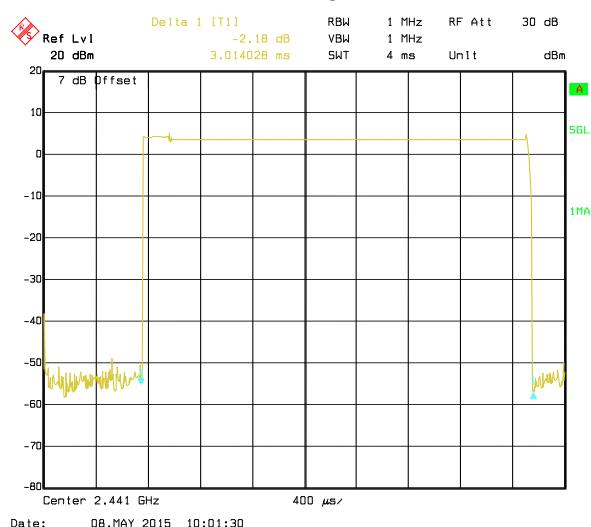
Modulation mode: $\pi/4$ -DQPSK



2-DH1

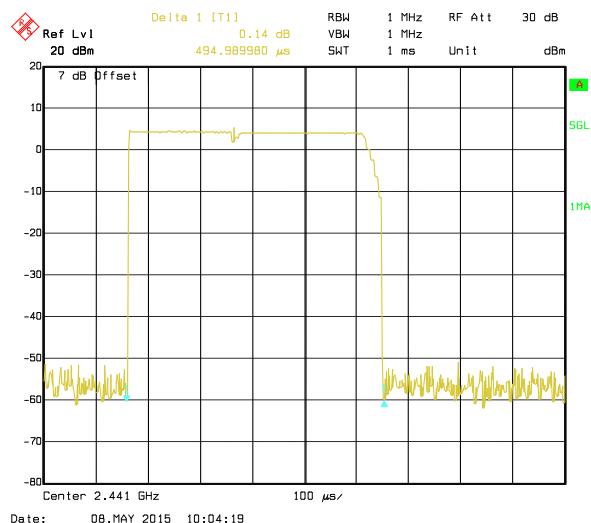


2-DH3

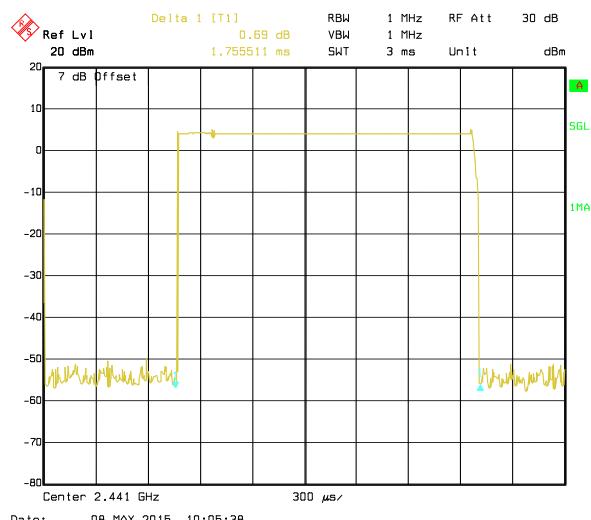


2-DH5

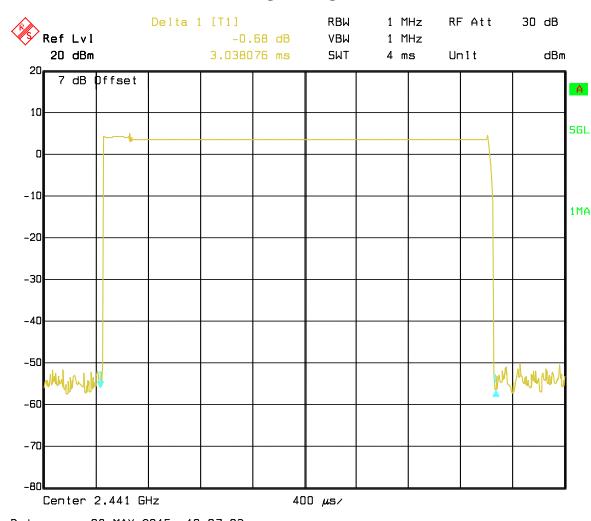
Modulation mode: 8DPSK



3-DH1



3-DH3



3-DH5

6.8 Pseudorandom Frequency Hopping Sequence

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

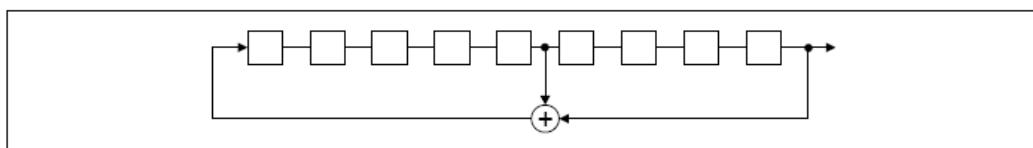
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

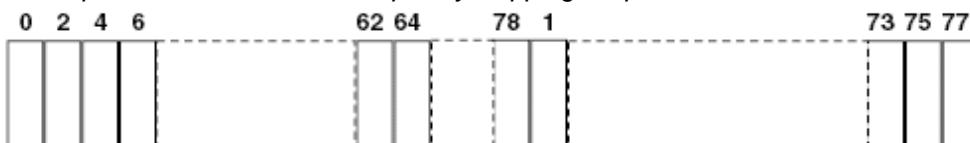
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ 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:

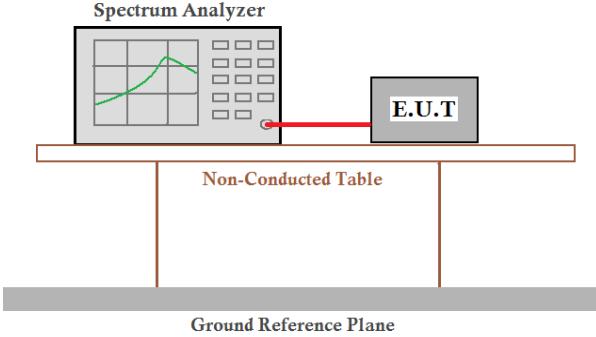


Each frequency used equally on the average by each transmitter.

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

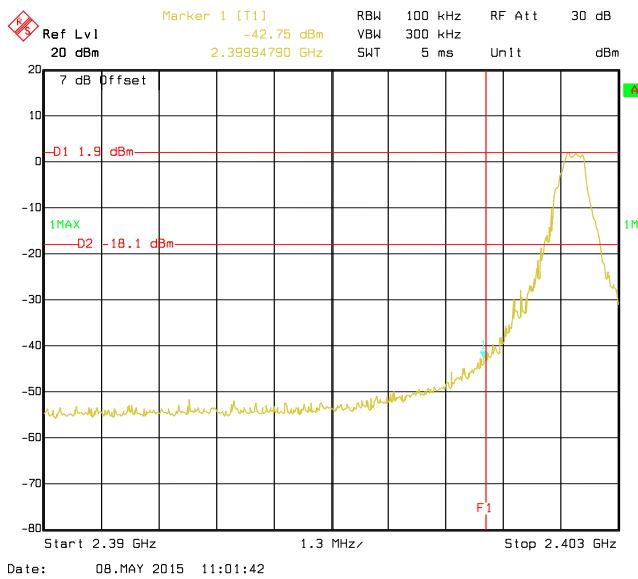
6.9.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 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:	<p style="text-align: center;">  Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane </p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode and hopping mode
Test results:	Pass

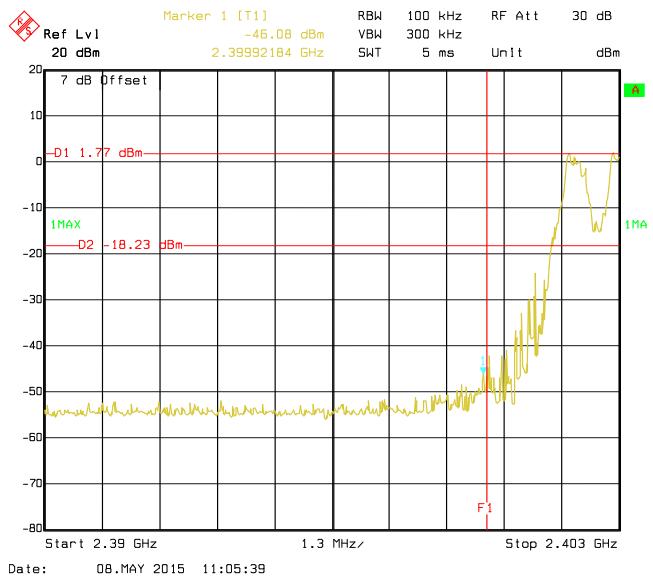
Test plot as follows:

GFSK

Lowest Channel

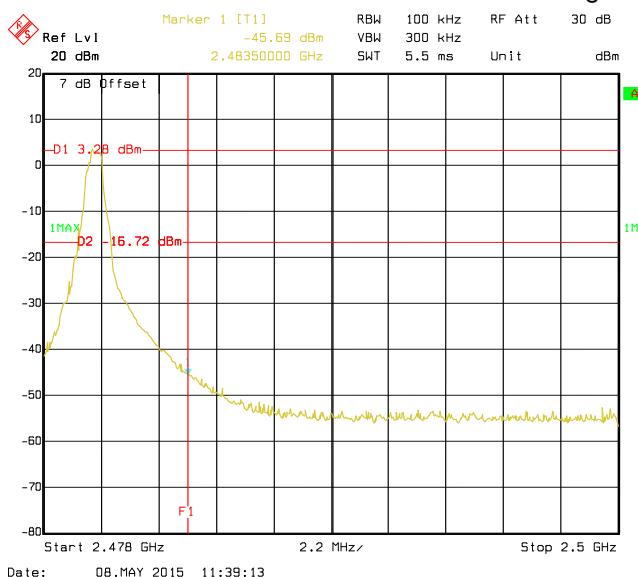


No-hopping mode

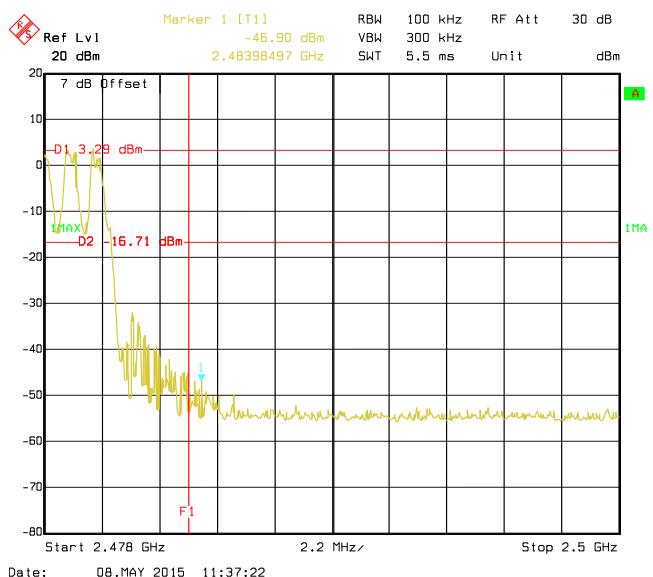


Hopping mode

Highest Channel



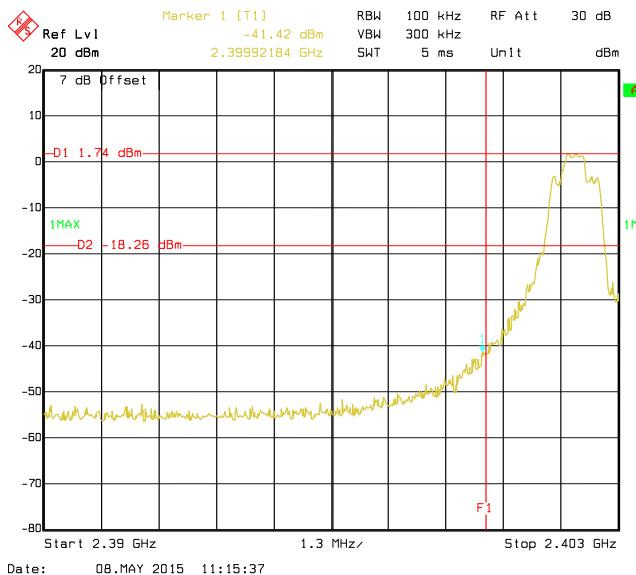
No-hopping mode



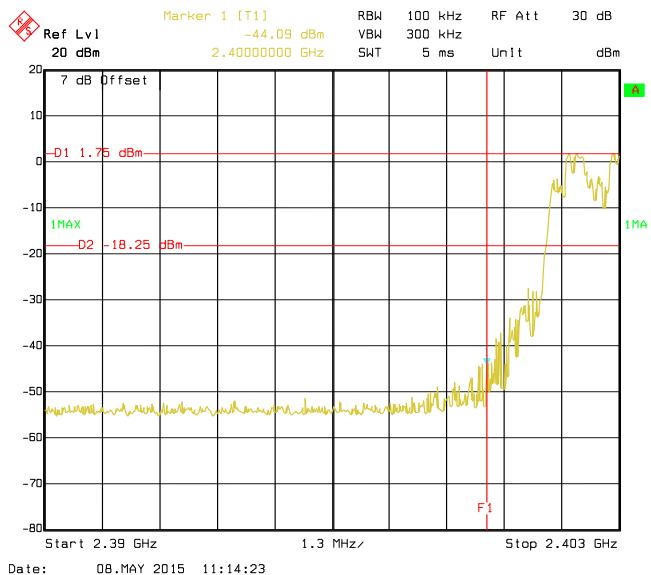
Hopping mode

$\pi/4$ -DQPSK

Lowest Channel

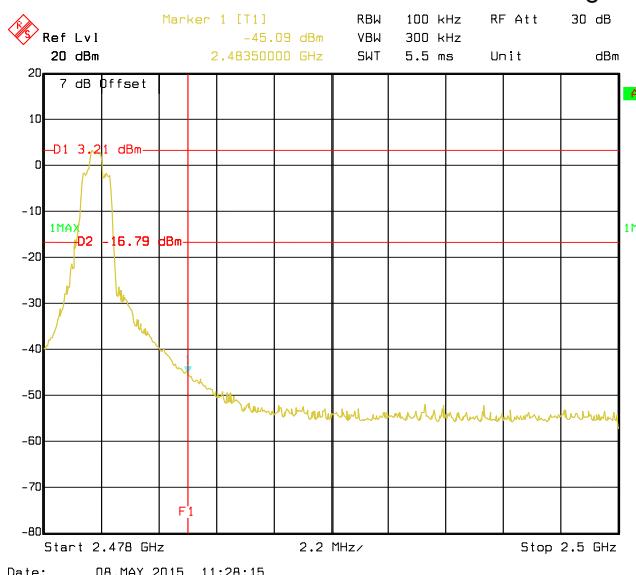


No-hopping mode

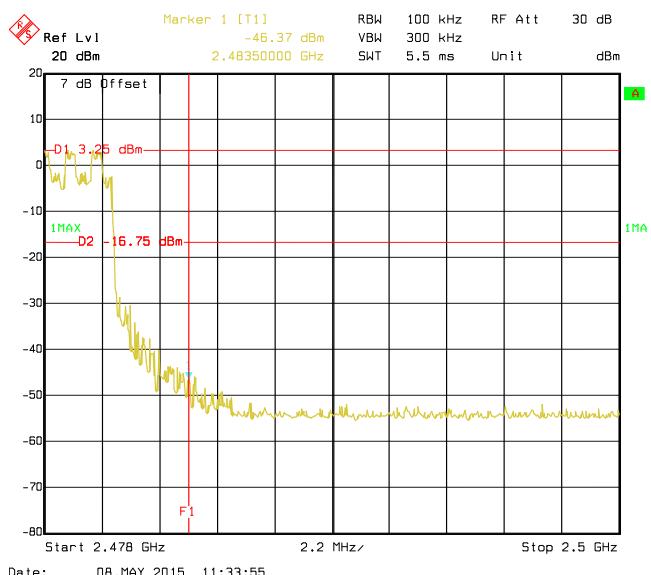


Hopping mode

Highest Channel



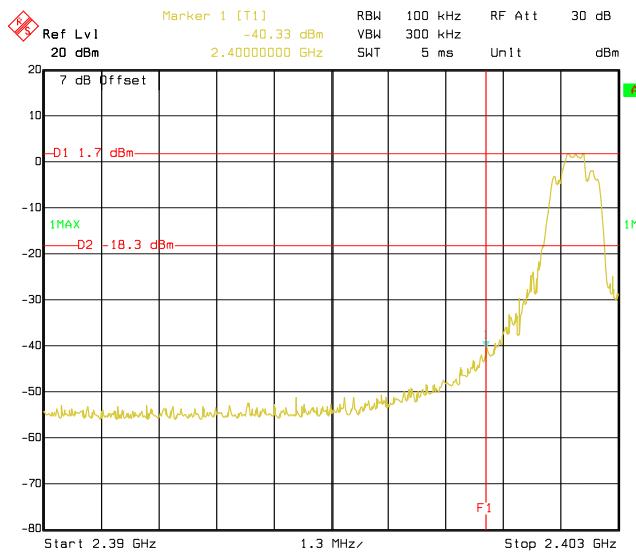
No-hopping mode



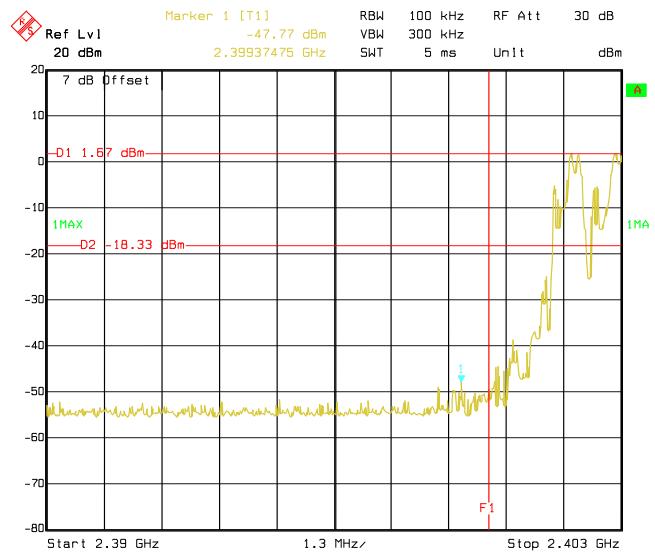
Hopping mode

8DPSK

Lowest Channel

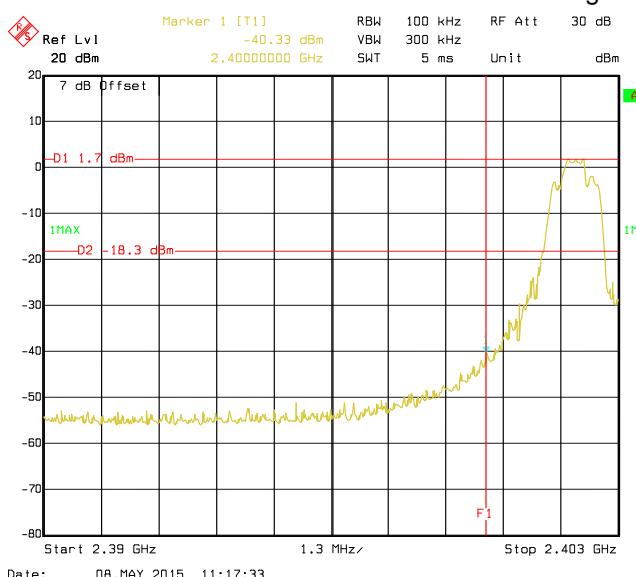


No-hopping mode

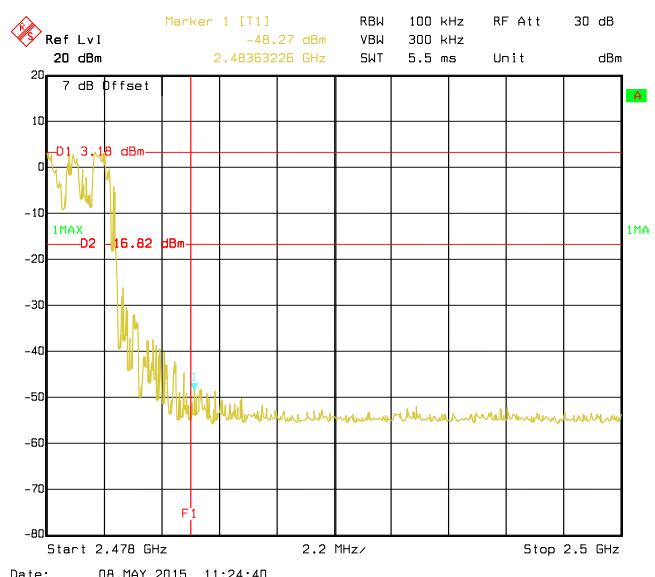


Hopping mode

Highest Channel



No-hopping mode



Hopping mode

6.9.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.4: 2009								
Test Frequency Range:	2.3GHz to 2.5GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limit:	Frequency	Limit (dBuV/m @3m)		Remark					
	Above 1GHz	54.00		Average Value					
		74.00		Peak Value					
Test setup:									
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. 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 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:	Passed								

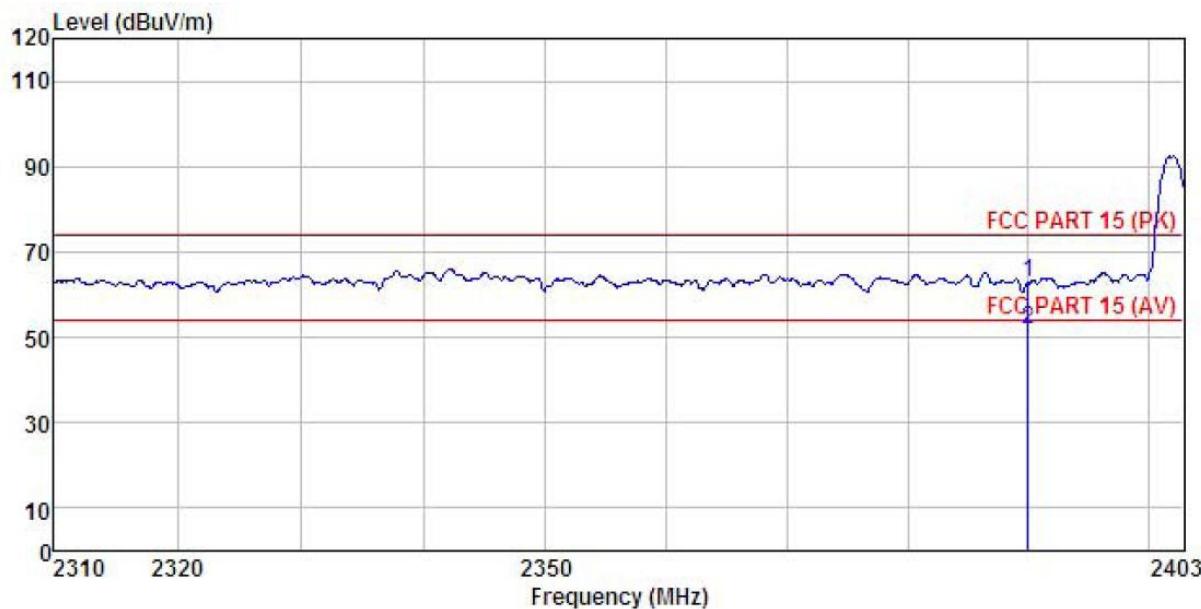
Remark:

- During the test, pre-scan the GFSK, $\pi/4$ -DQPSK, 8DPSK, and all data were shown in report.
- 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

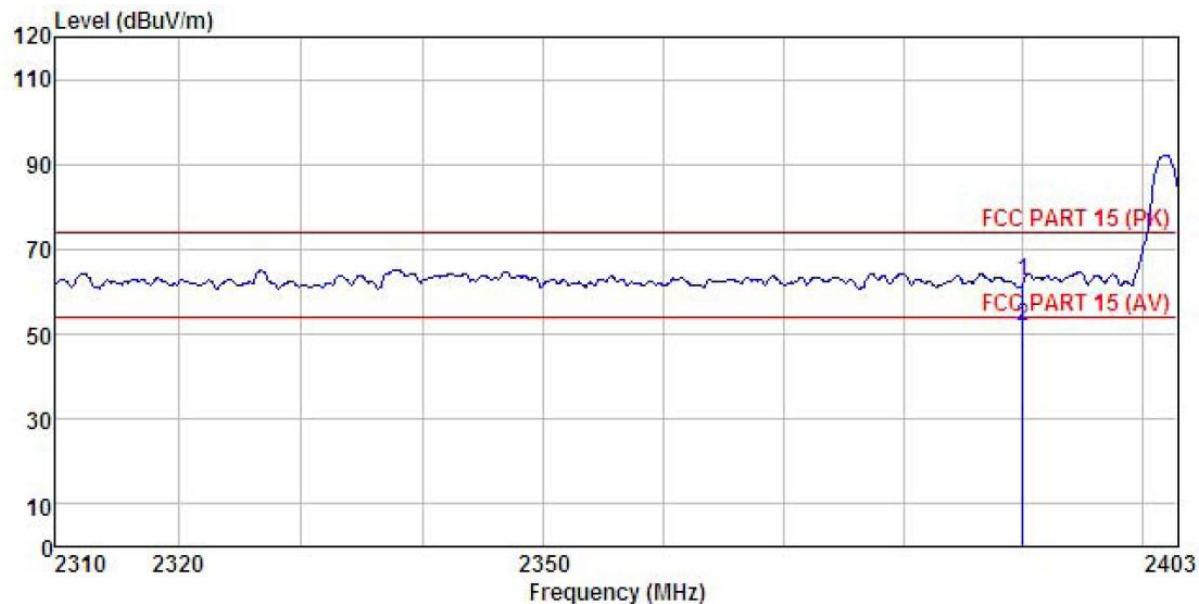
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Phone_WCDMA
Model : G0763
Test mode : BT-DH1-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: MT
REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	28.58	27.58	6.63	0.00	62.79	74.00	-11.21 Peak
2	2390.000	17.56	27.58	6.63	0.00	51.77	54.00	-2.23 Average

Vertical:

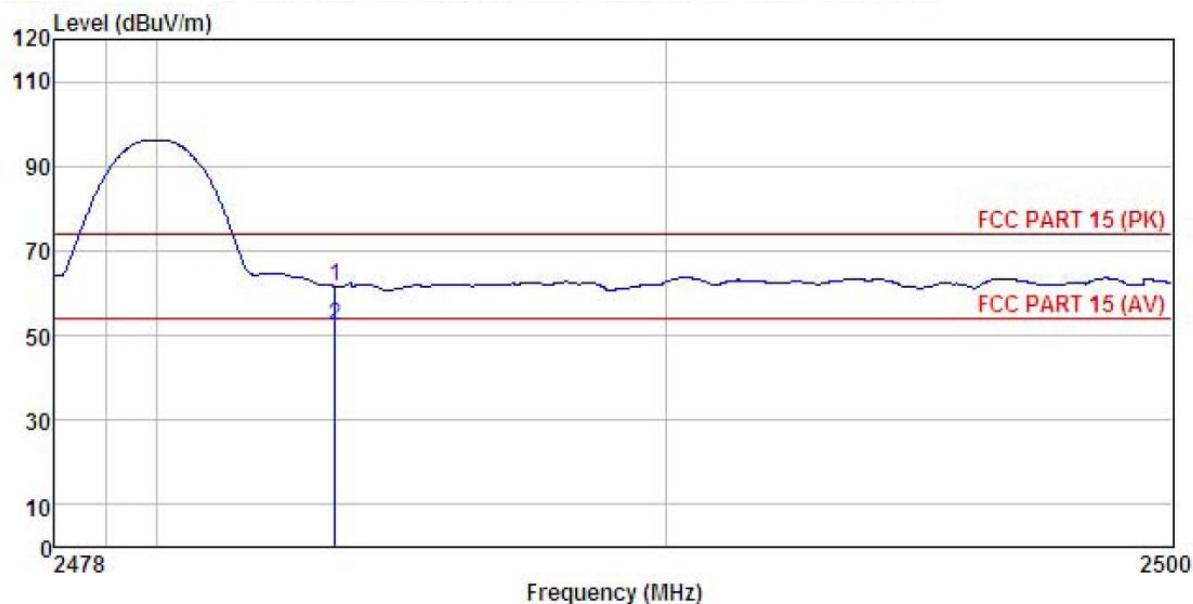


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Phone_WCDMA
Model : G0763
Test mode : BT-DH1-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: MT
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.000	28.28	27.58	6.63	0.00	62.49	74.00 -11.51 Peak
2	2390.000	17.59	27.58	6.63	0.00	51.80	54.00 -2.20 Average

Test channel: Highest

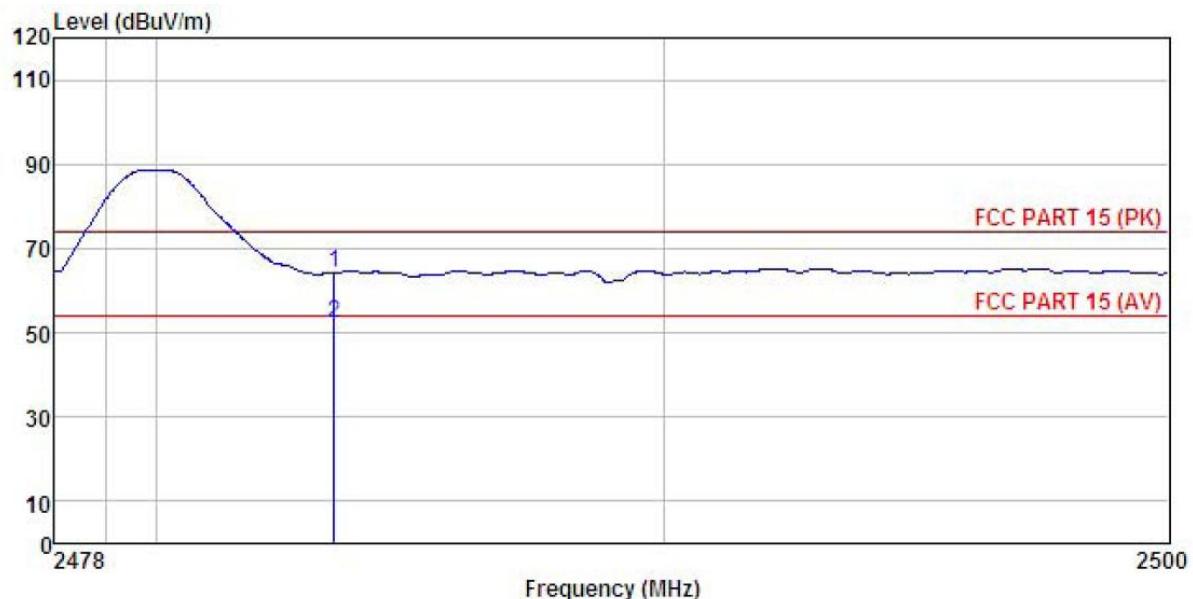
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Phone_WCDMA
Model : G0763
Test mode : BT-DH1-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: MT
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2483.500	27.29	27.52	6.85	0.00	61.66
2	2483.500	17.95	27.52	6.85	0.00	52.32
					74.00	-12.34
					54.00	-1.68
						Peak Average

Vertical:



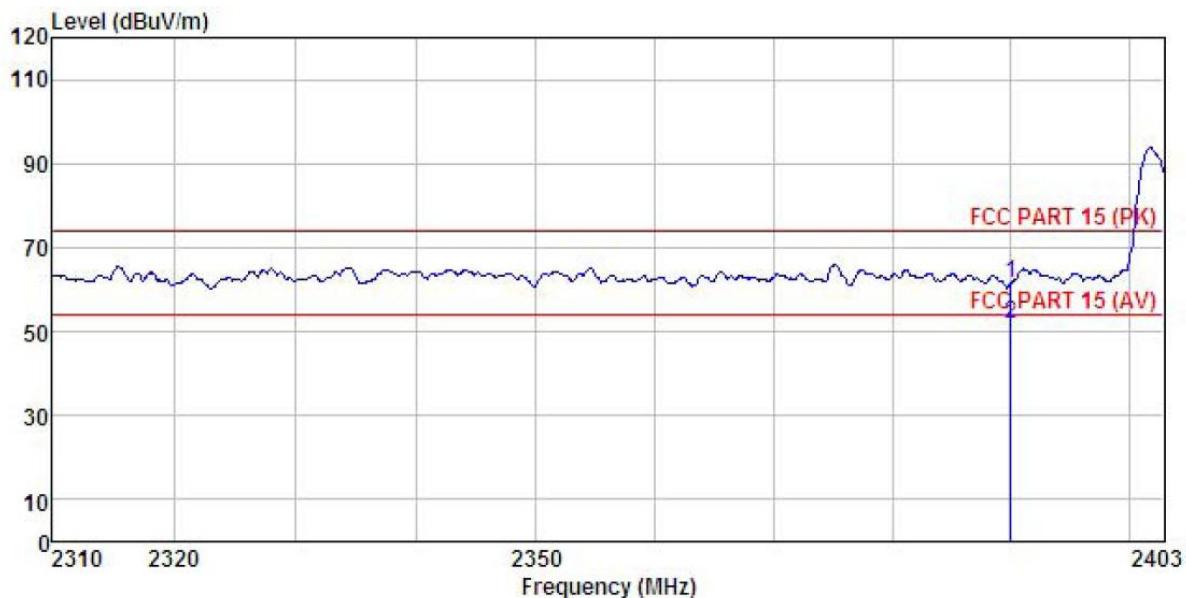
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Phone_WCDMA
Model : G0763
Test mode : BT-DH1-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: MT
REMARK :

	Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Level Factor	Limit Level	Line Limit	Over dB	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	29.95	27.52	6.85	0.00	64.32	74.00	-9.68	Peak
2	2483.500	17.99	27.52	6.85	0.00	52.36	54.00	-1.64	Average

π/4-DQPSK mode

Test channel: Lowest

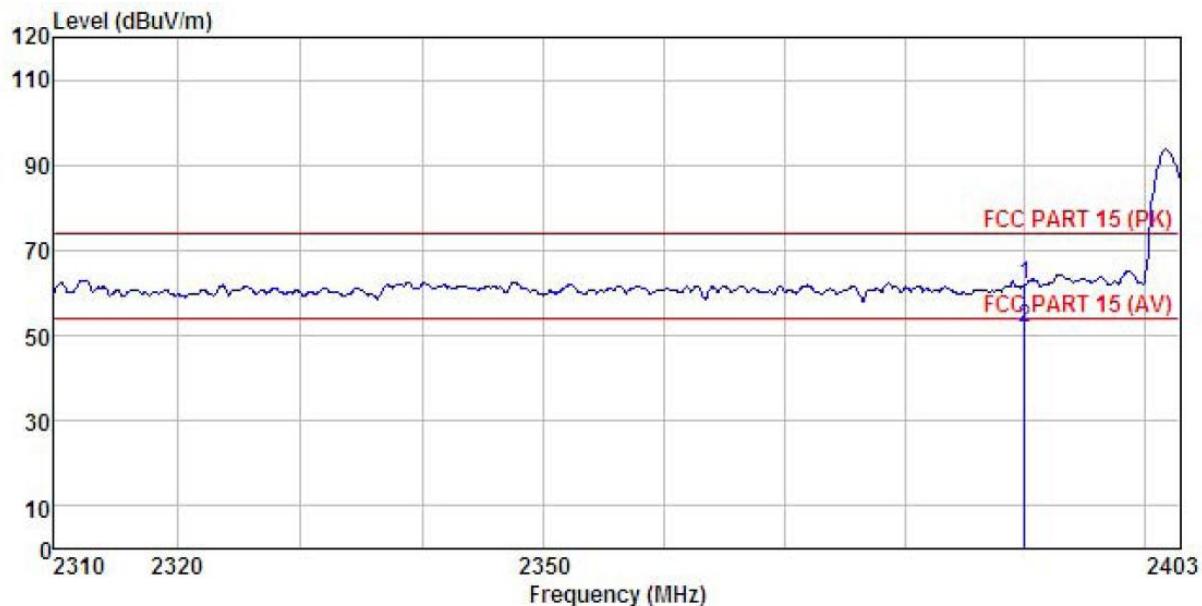
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBH49120(1G18) HORIZONTAL
EUT : Phone_WCDMA
Model : G0763
Test mode : BT-2DH1-L mode
Power Rating : AC 120W/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: MT
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	27.49	27.58	6.63	0.00	61.70	74.00 -12.30 Peak
2	2390.000	17.59	27.58	6.63	0.00	51.80	54.00 -2.20 Average

Vertical:



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

EUT : Phone_WCDMA

Model : G0763

Test mode : BT-2DH1-L mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Humi:55%

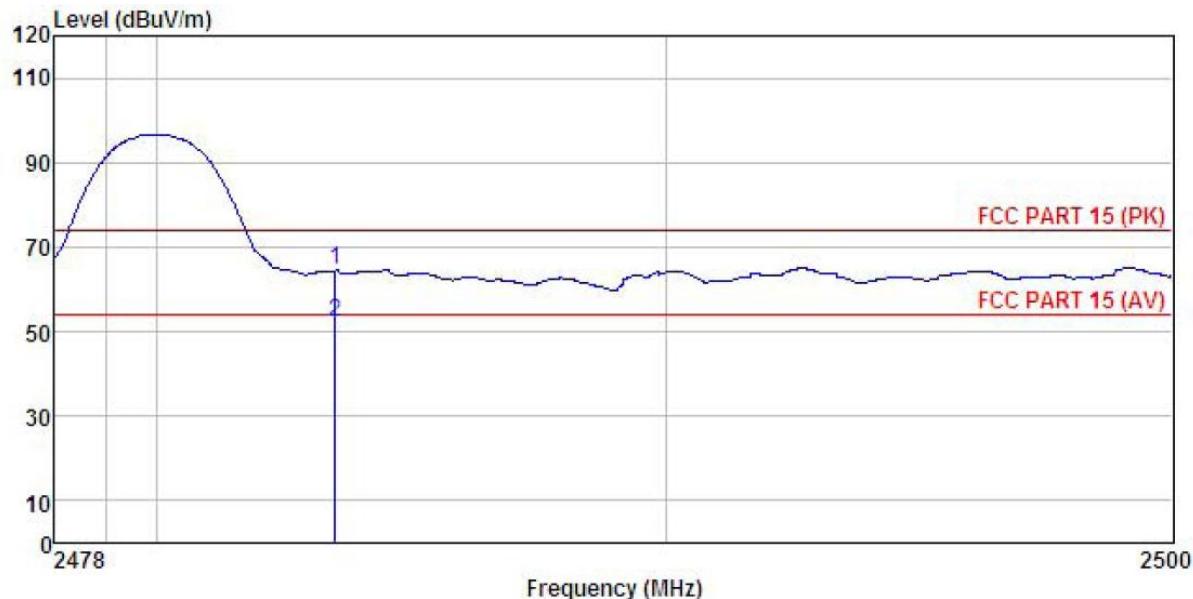
Test Engineer: MT

REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	27.73	27.58	6.63	0.00	61.94	74.00 -12.06 Peak
2	2390.000	17.62	27.58	6.63	0.00	51.83	54.00 -2.17 Average

Test channel: Highest

Horizontal:



Site : 3m chamber

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

EUT : Phone_WCDMA

Model : G0763

Test mode : BT-2DH1-H mode

Power Rating : AC 120V/60Hz

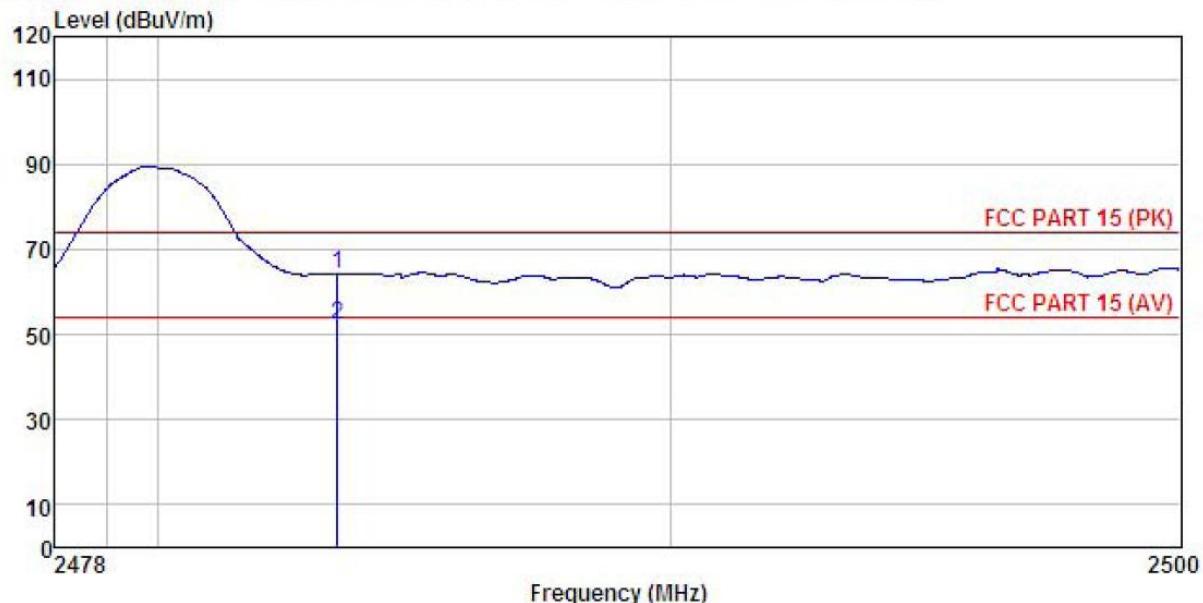
Environment : Temp:25.5°C Humi:55%

Test Engineer: MT

REMARK :

	ReadAntenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	30.21	27.52	6.85	0.00	64.58	74.00 -9.42 Peak
2	2483.500	18.00	27.52	6.85	0.00	52.37	54.00 -1.63 Average

Vertical:



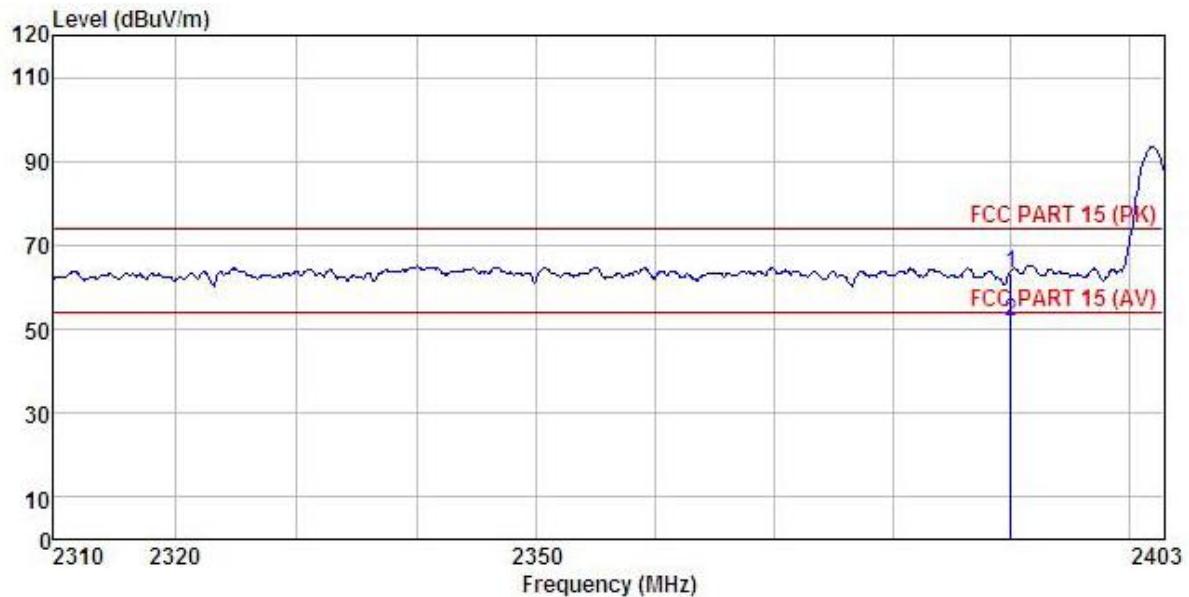
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Phone_WCDMA
Model : G0763
Test mode : BT-2DH1-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: MT
REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	
1	2483.500	29.72	27.52	6.85	0.00	64.09	74.00	-9.91 Peak
2	2483.500	17.86	27.52	6.85	0.00	52.23	54.00	-1.77 Average

8DPSK mode

Test channel: Lowest

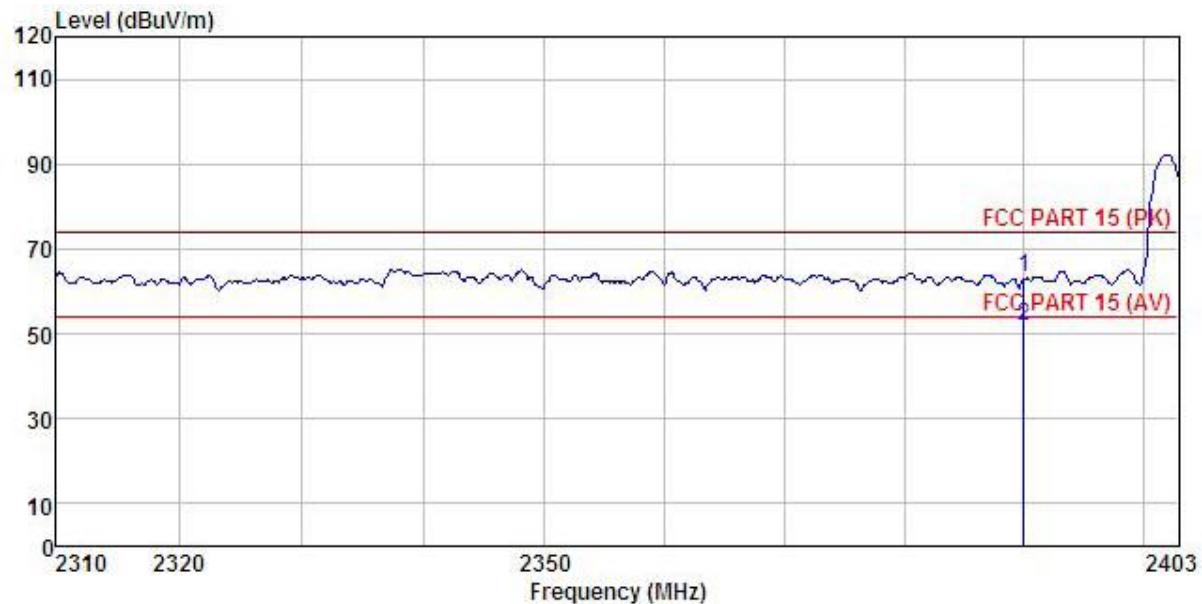
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Phone_WCDMA
Model : G0763
Test mode : BT-3DH1-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5'C Huni:55%
Test Engineer: MT
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.000	29.11	27.58	6.63	0.00	63.32
2	2390.000	17.64	27.58	6.63	0.00	51.85
					74.00	-10.68 Peak
					54.00	-2.15 Average

Vertical:



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

EUT : Phone_WCDMA

Model : G0763

Test mode : BT-3DH1-L mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

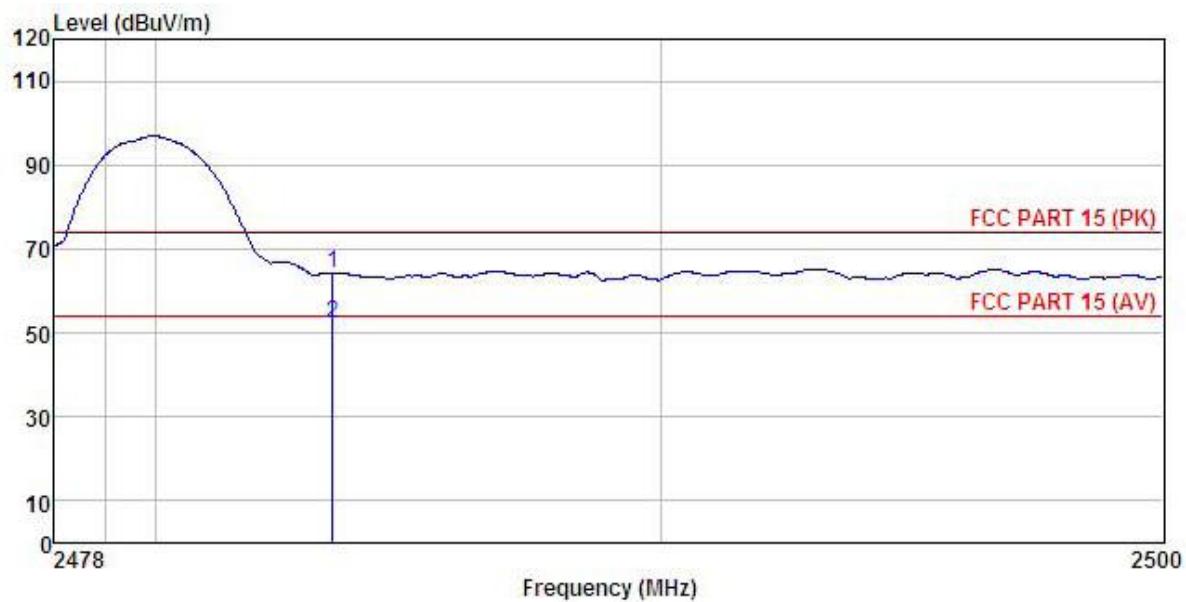
Test Engineer: MT

REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	28.90	27.58	6.63	0.00	63.11	74.00	-10.89 Peak
2	2390.000	17.62	27.58	6.63	0.00	51.83	54.00	-2.17 Average

Test channel: Highest

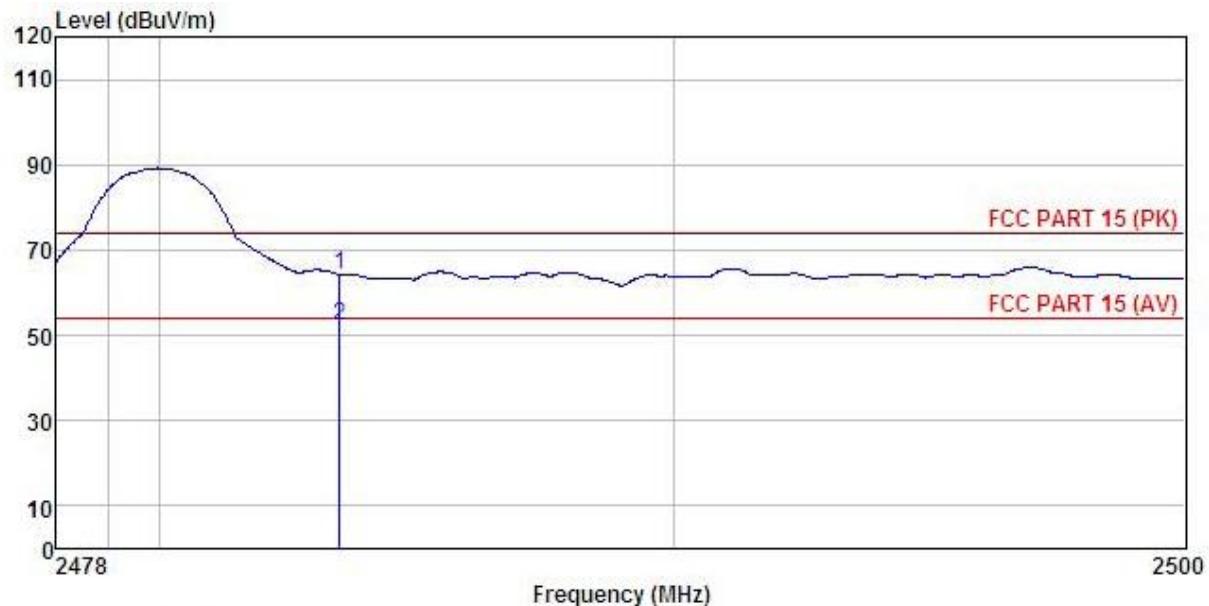
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Phone_WCDMA
Model : G0763
Test mode : BT-3DH1-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: MT
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	29.87	27.52	6.85	0.00	64.24	74.00 -9.76 Peak
2	2483.500	17.93	27.52	6.85	0.00	52.30	54.00 -1.70 Average

Vertical:



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

EUT : Phone_WCDMA

Model : G0763

Test mode : BT-3DH1-H mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: MT

REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss Factor	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	29.77	27.52	6.85	0.00	64.14	74.00	-9.86 Peak
2	2483.500	17.91	27.52	6.85	0.00	52.28	54.00	-1.72 Average

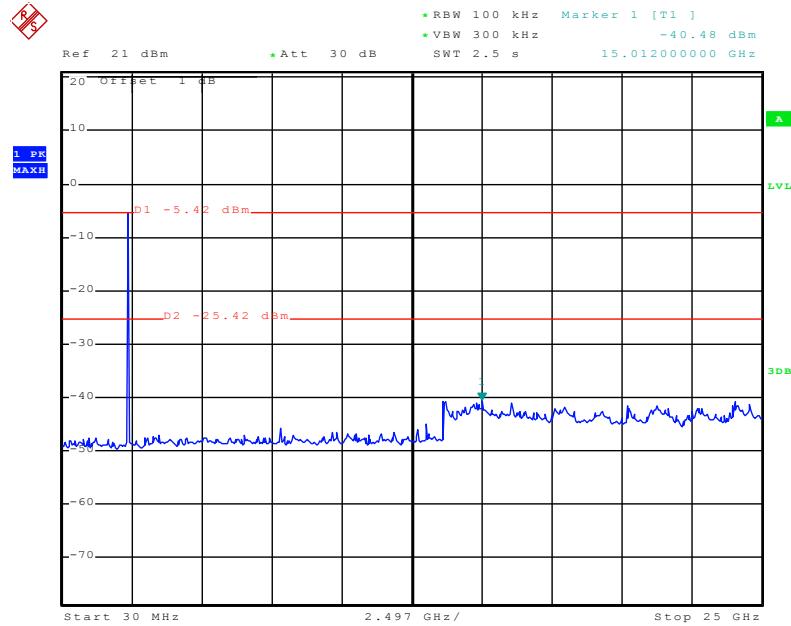
6.10 Spurious Emission

6.10.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 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:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

GFSK

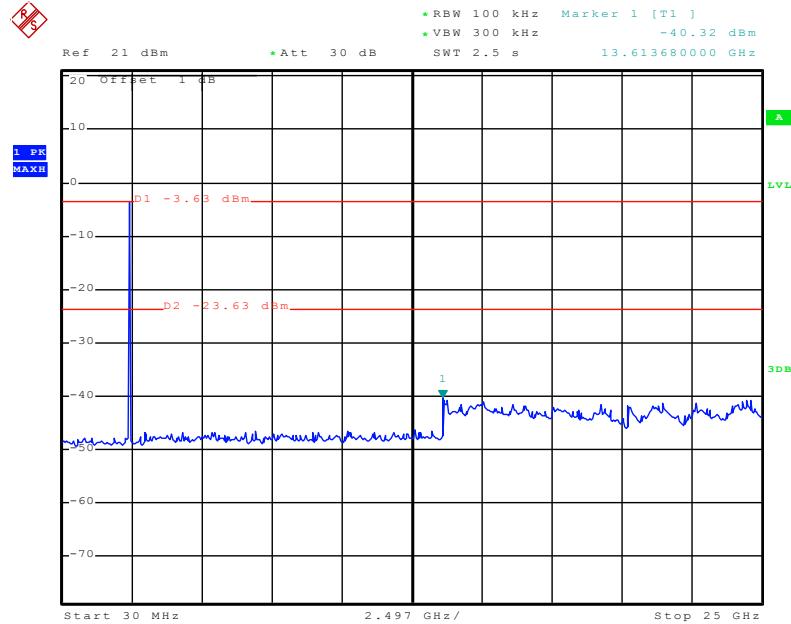
Lowest channel



Date: 22.MAY.2015 13:49:39

30MHz~25GHz

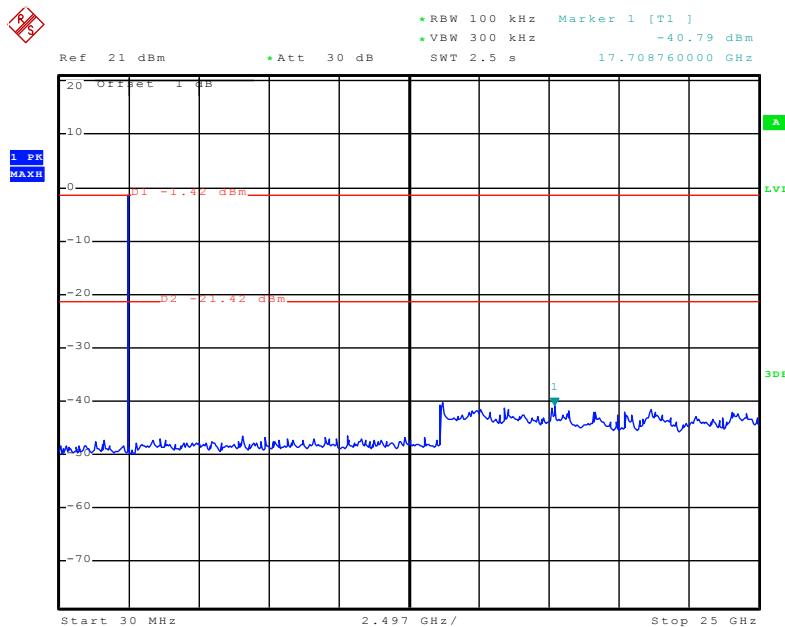
Middle channel



Date: 22.MAY.2015 13:48:16

30MHz~25GHz

Highest channel

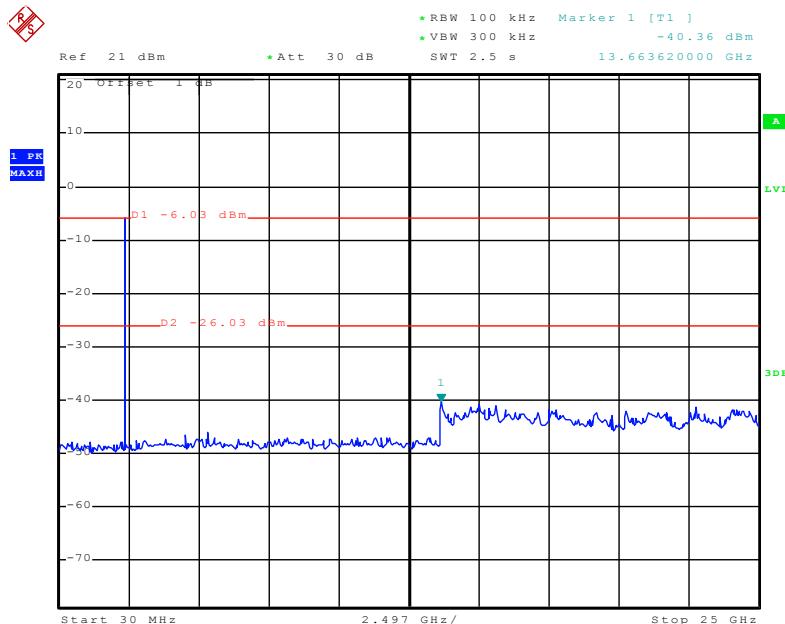


Date: 22.MAY.2015 13:46:16

30MHz~25GHz

$\pi/4$ -DQPSK

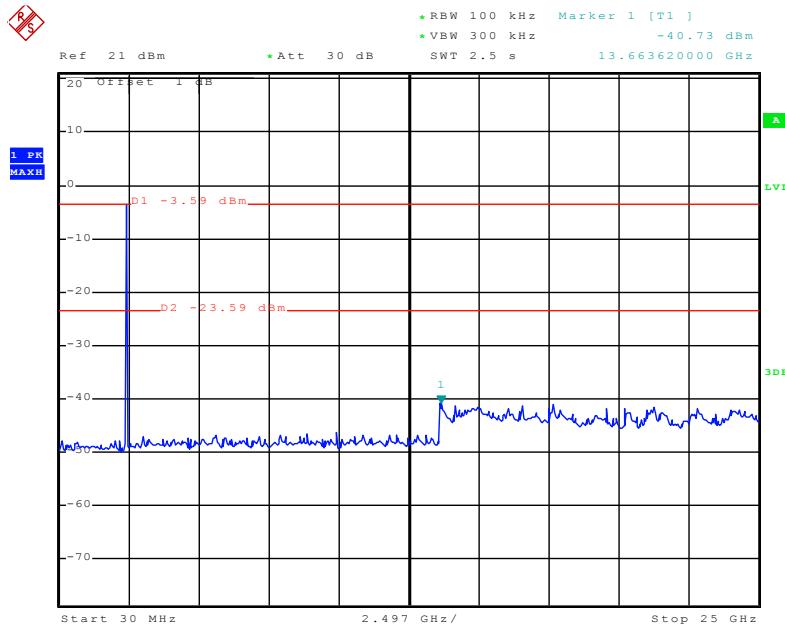
Lowest channel



Date: 22.MAY.2015 13:41:58

30MHz~25GHz

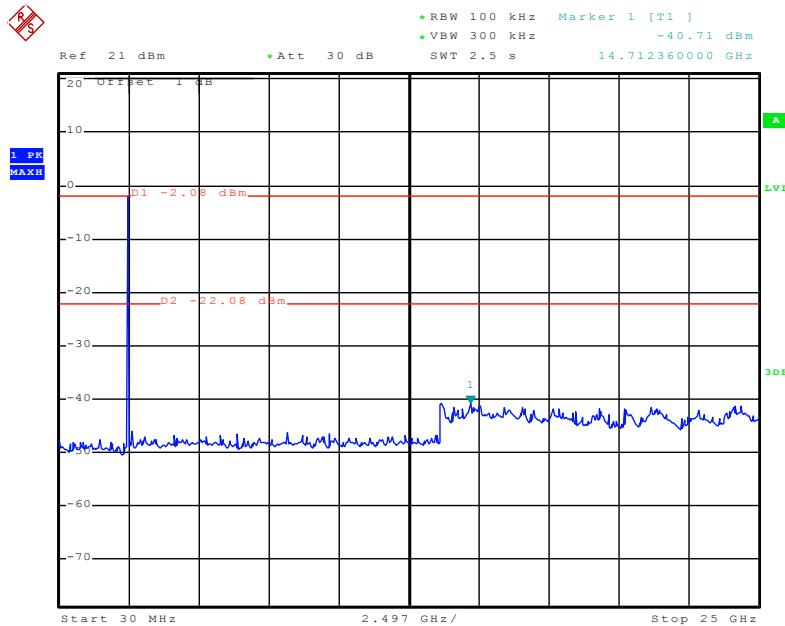
Middle channel



Date: 22.MAY.2015 13:43:05

30MHz~25GHz

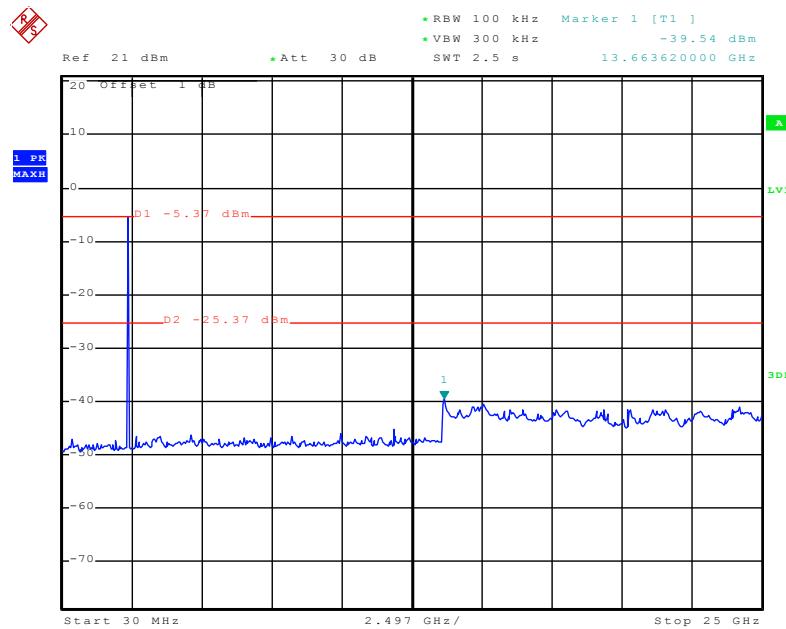
Highest channel



Date: 22.MAY.2015 13:44:14
30MHz~25GHz

8DPSK

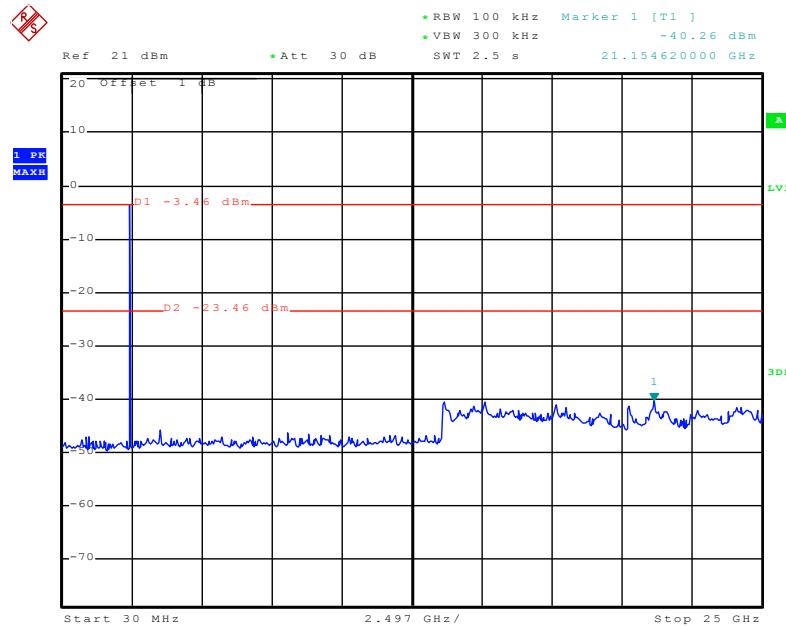
Lowest channel



Date: 22.MAY.2015 12:10:30

30MHz~25GHz

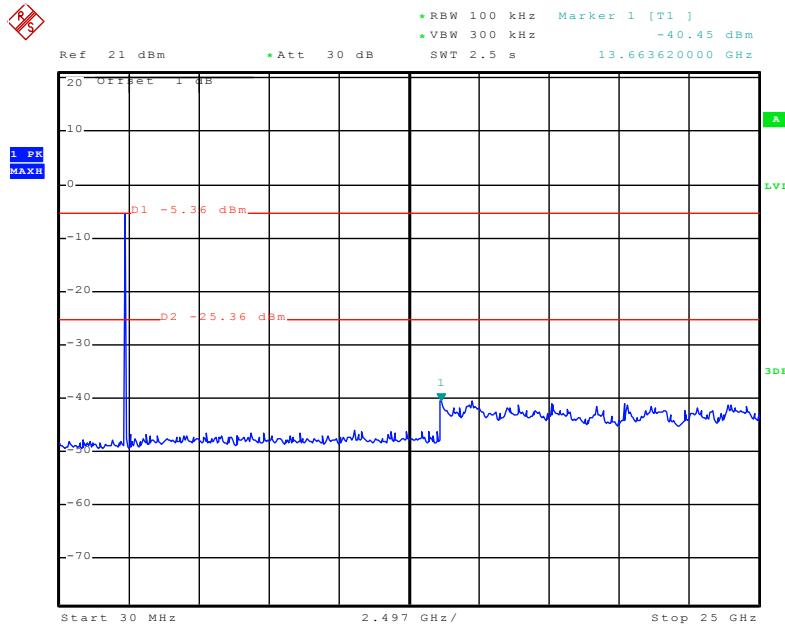
Middle channel



Date: 22.MAY.2015 13:38:43

30MHz~25GHz

Highest channel



Date: 22.MAY.2015 13:40:37

30MHz~25GHz

6.10.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209						
Test Method:	ANSI C63.4: 2009						
Test Frequency Range:	9 kHz to 25 GHz						
Test site:	Measurement Distance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Remark		
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
Limit:	Peak	1MHz	10Hz	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	54.0		Average Value			
Test setup:	74.0						
	Peak Value						
Below 1GHz							
Above 1GHz							

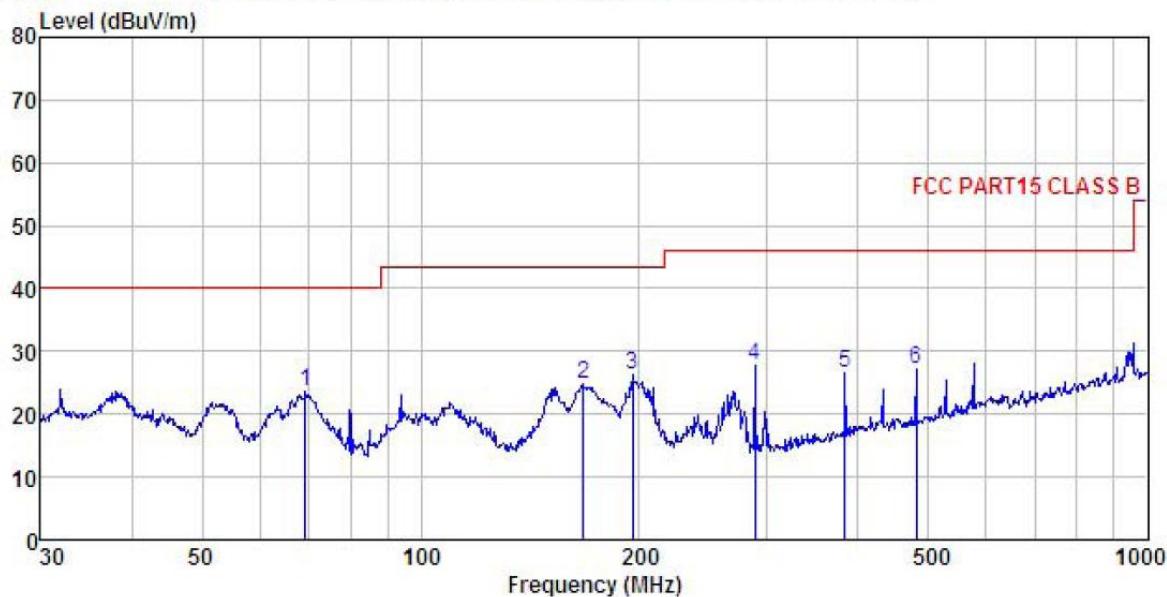
Test Procedure:	<ol style="list-style-type: none">1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.2. The EUT was set 3 meters away from the interference-receiving 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.5. 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**

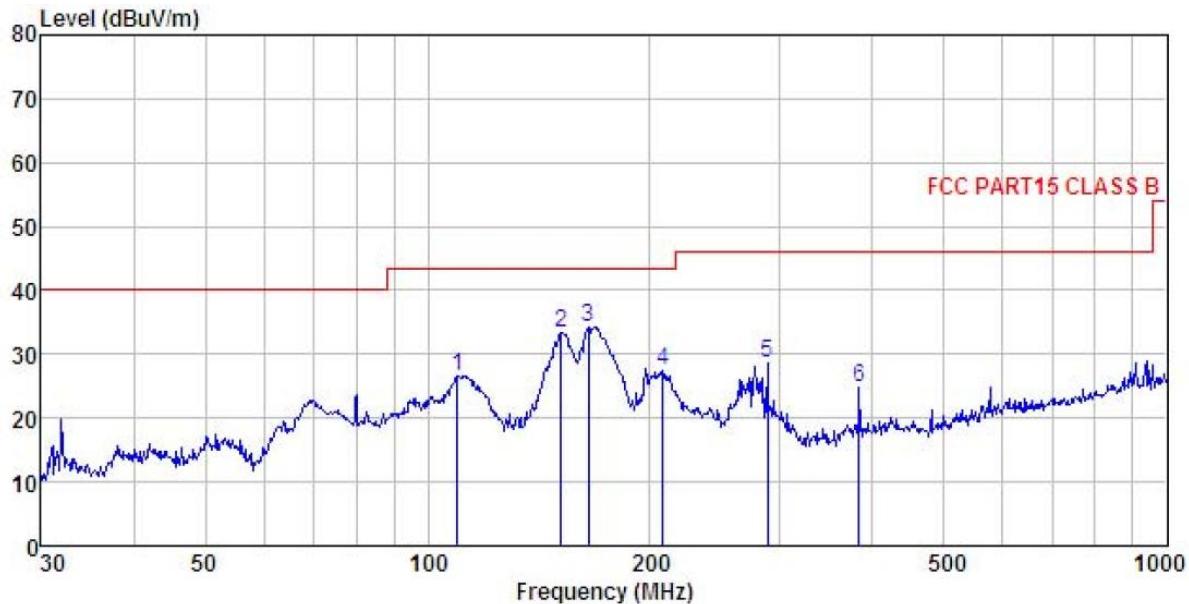
Vertical:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL
EUT : Phone_WCDMA
Model : G0763
Test mode : BT mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: MT
REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	MHz	dBuV	Factor	Loss Factor			
1	69.357	43.54	8.92	0.78	29.73	23.51	40.00 -16.49 QP
2	167.237	43.70	8.87	1.34	29.07	24.84	43.50 -18.66 QP
3	195.822	43.12	10.57	1.38	28.86	26.21	43.50 -17.29 QP
4	287.990	41.59	12.84	1.74	28.47	27.70	46.00 -18.30 QP
5	383.932	38.42	14.68	2.06	28.71	26.45	46.00 -19.55 QP
6	480.528	37.61	16.07	2.35	28.92	27.11	46.00 -18.89 QP

Horizontal:



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

Model : GO763

Test mode : BT mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Humi:55%

Test Engineer: MT

REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	109.796	42.82	12.25	1.04	29.46	26.65	43.50 -16.85 QP
2	151.597	52.98	8.32	1.32	29.21	33.41	43.50 -10.09 QP
3	164.908	53.17	8.82	1.34	29.09	34.24	43.50 -9.26 QP
4	207.850	44.02	10.80	1.42	28.78	27.46	43.50 -16.04 QP
5	287.990	42.63	12.84	1.74	28.47	28.74	46.00 -17.26 QP
6	383.932	36.91	14.68	2.06	28.71	24.94	46.00 -21.06 QP

Above 1GHz:

Test channel:			Lowest		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	48.50	31.53	8.90	40.24	48.69	74.00	-25.31	Vertical
4804.00	46.54	31.53	8.90	40.24	46.73	74.00	-27.27	Horizontal
Test channel:			Lowest		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	39.52	31.53	8.90	40.24	39.71	54.00	-14.29	Vertical
4804.00	37.66	31.53	8.90	40.24	37.85	54.00	-16.15	Horizontal

Test channel:			Middle		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	50.93	31.58	8.98	40.15	51.34	74.00	-22.66	Vertical
4882.00	47.21	31.58	8.98	40.15	47.62	74.00	-26.38	Horizontal
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	46.35	31.58	8.98	40.15	46.76	54.00	-7.24	Vertical
4882.00	37.69	31.58	8.98	40.15	38.10	54.00	-15.90	Horizontal

Test channel:			Highest		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	46.74	31.69	9.08	40.03	47.48	74.00	-26.52	Vertical
4960.00	46.59	31.69	9.08	40.03	47.33	74.00	-26.67	Horizontal
Test channel:			Highest		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	37.62	31.69	9.08	40.03	38.36	54.00	-15.64	Vertical
4960.00	37.14	31.69	9.08	40.03	37.88	54.00	-16.12	Horizontal

Remark:

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