

FCC REPORT

Applicant: MOX GROUP LIMITED

Address of Applicant: RM2508-2509, T-Share international building A, taoyuan Road
Nan shan,Shenzhen,China

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: A40

Trade mark: MOX

FCC ID: 2ABBS-A40

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

Date of sample receipt: 13 Dec., 2013

Date of Test: 16 Dec., to 27 Dec., 2013

Date of report issued: 30 Dec., 2013

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	30 Dec., 2013	Original

Prepared by:



Date:

30 Dec., 2013

Report Clerk

Reviewed by:



Date:

30 Dec., 2013

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:	MOX GROUP LIMITED
Address of Applicant:	RM2508-2509, T-Share international building A, taoyuan Road Nan shan,Shenzhen,China
Manufacturer:	MOX GROUP LIMITED
Address of Manufacturer:	RM2508-2509, T-Share international building A, taoyuan Road Nan shan,Shenzhen,China

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	A40
Trade mark:	MOX
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:	-3dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1400mAh
AC adapter:	Model:MOX-F02 Input:100-240V AC,50/60Hz 150mA Output:5.0V DC MAX1000mA

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: 0755-23118282
Fax: 0755-23116366

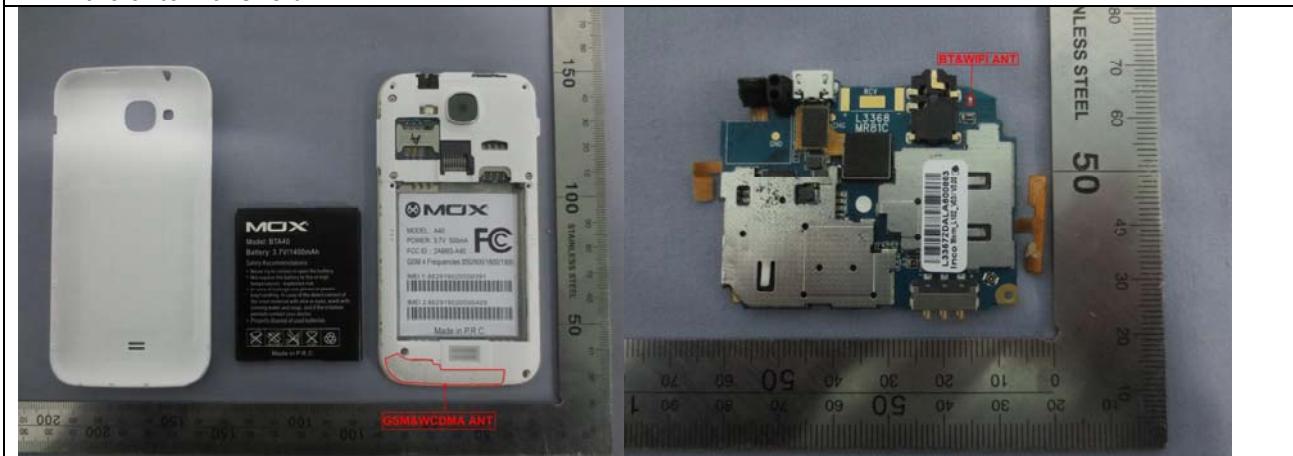
5.6 Test Instruments list

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	June 09 2013	June 08 2014
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2013	May 24 2014
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2013	May 24 2014
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2013	Mar. 31 2014
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2013	Mar. 31 2014
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2013	Mar. 31 2014
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2013	Mar. 31 2014
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2013	Mar. 31 2014
10	Amplifier(10kHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2013	Mar. 31 2014
11	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2013	June 08 2014
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2013	Mar. 31 2014
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2013	Mar. 29 2014
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	May. 25 2013	May. 24 2014
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2013	Mar. 31 2014
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2013	Aug. 11 2014
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May. 25 2013	May. 24 2014
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2013	May. 24 2014

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

6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement:	<p>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.</p>
15.247(c) (1)(i) requirement:	<p>(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.</p>
E.U.T Antenna:	<p>The Bluetooth antenna is an integral antenna which permanently attached, and the best case gain of the antenna is -3 dBi.</p> 

6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.4:2003		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50

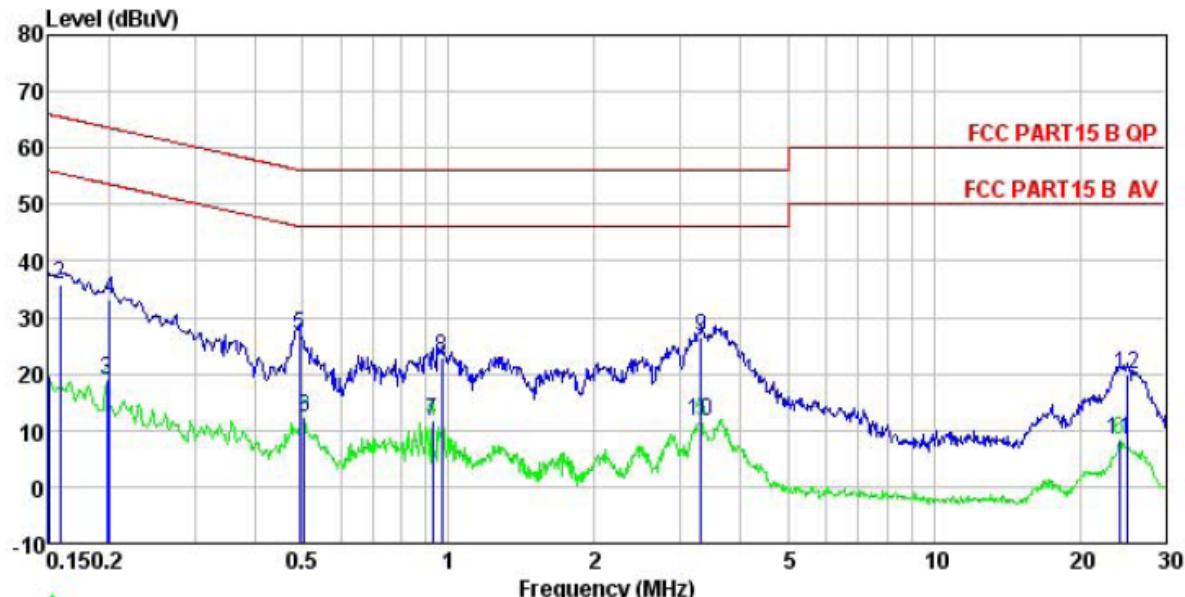
* Decreases with the logarithm of the frequency.

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

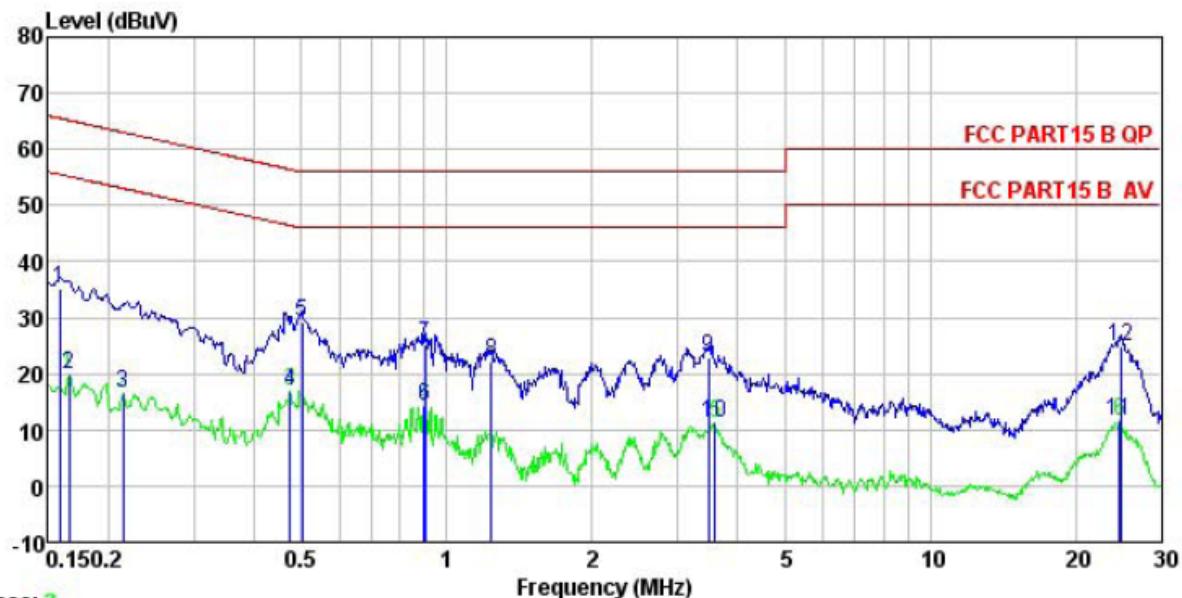
Line:



Site : CCIS Conducted test Site
 Condition : FCC PART15 B QP LISN LINE
 Job No. : 568RF
 EUT : Mobile phone
 Model : A40
 Test Mode : BT TX mode
 Power Rating : AC120/60Hz
 Environment : Temp: 23 °C Huni:56% Atmos:101KPa
 Test Engineer: Winner

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB	dBuV	dBuV		dB
1	0.150	8.55	0.27	10.78	19.60	56.00	-36.40	Average
2	0.158	24.79	0.27	10.78	35.84	65.56	-29.72	QP
3	0.198	7.78	0.28	10.76	18.82	53.71	-34.89	Average
4	0.201	22.14	0.28	10.76	33.18	63.58	-30.40	QP
5	0.494	15.87	0.29	10.76	26.92	56.10	-29.18	QP
6	0.505	1.04	0.29	10.76	12.09	46.00	-33.91	Average
7	0.928	0.66	0.24	10.85	11.75	46.00	-34.25	Average
8	0.968	11.76	0.25	10.86	22.87	56.00	-33.13	QP
9	3.310	15.47	0.27	10.91	26.65	56.00	-29.35	QP
10	3.310	0.31	0.27	10.91	11.49	46.00	-34.51	Average
11	24.142	-3.21	0.49	10.88	8.16	50.00	-41.84	Average
12	25.055	8.45	0.52	10.87	19.84	60.00	-40.16	QP

Neutral:

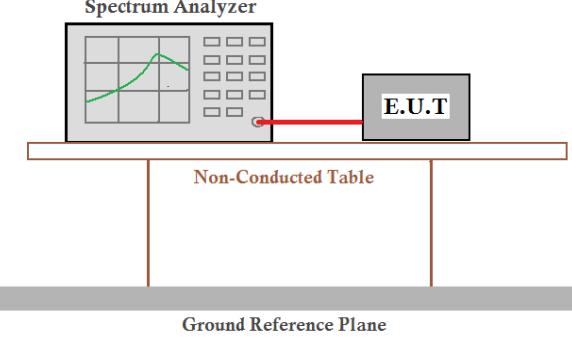


Freq	Read	LISN	Cable	Limit	Over	Remark
	Level	Factor	Loss	Level	Line	
MHz	dBuV	dB	dB	dBuV	dBuV	dB
1	0.158	24.15	0.25	10.78	35.18	65.56 -30.38 QP
2	0.166	8.78	0.25	10.77	19.80	55.16 -35.36 Average
3	0.214	5.54	0.25	10.76	16.55	53.05 -36.50 Average
4	0.474	5.86	0.28	10.75	16.89	46.45 -29.56 Average
5	0.502	18.20	0.29	10.76	29.25	56.00 -26.75 QP
6	0.899	3.27	0.21	10.84	14.32	46.00 -31.68 Average
7	0.904	14.06	0.21	10.84	25.11	56.00 -30.89 QP
8	1.236	11.19	0.24	10.90	22.33	56.00 -33.67 QP
9	3.472	11.81	0.29	10.91	23.01	56.00 -32.99 QP
10	3.584	0.01	0.29	10.90	11.20	46.00 -34.80 Average
11	24.659	0.19	0.52	10.87	11.58	50.00 -38.42 Average
12	24.790	13.39	0.52	10.87	24.78	60.00 -35.22 QP

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

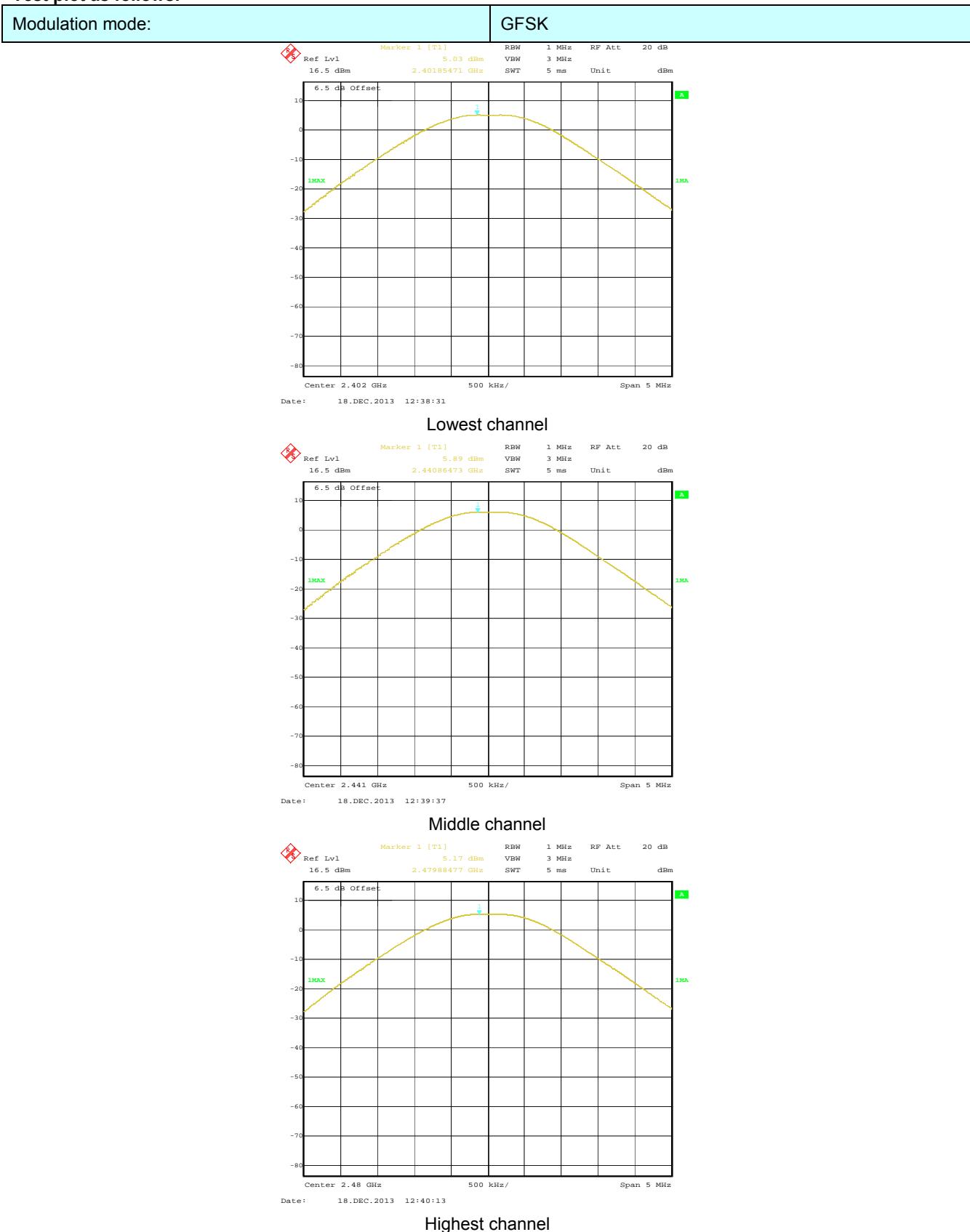
6.3 Conducted Output Power

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

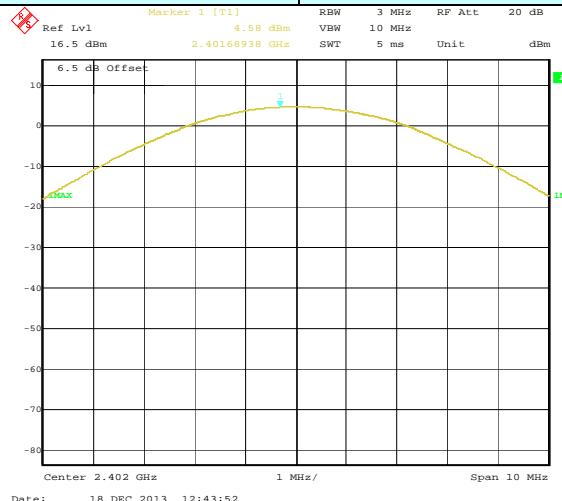
Measurement Data

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	5.03	21.00	Pass
Middle	5.89	21.00	Pass
Highest	5.17	21.00	Pass
$\pi/4$ -DQPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	4.58	21.00	Pass
Middle	5.56	21.00	Pass
Highest	4.68	21.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	4.79	21.00	Pass
Middle	5.67	21.00	Pass
Highest	4.79	21.00	Pass

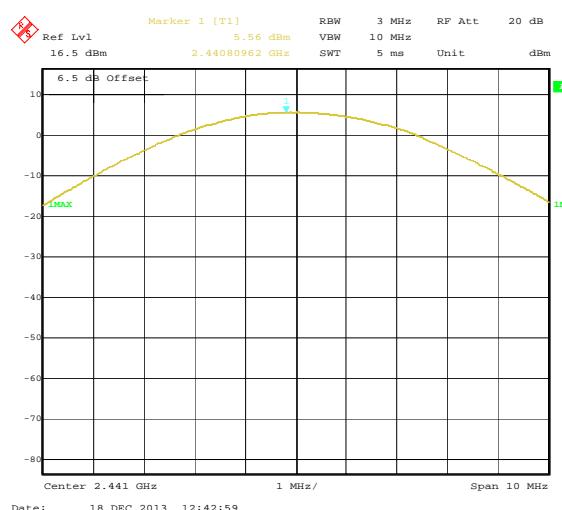
Test plot as follows:



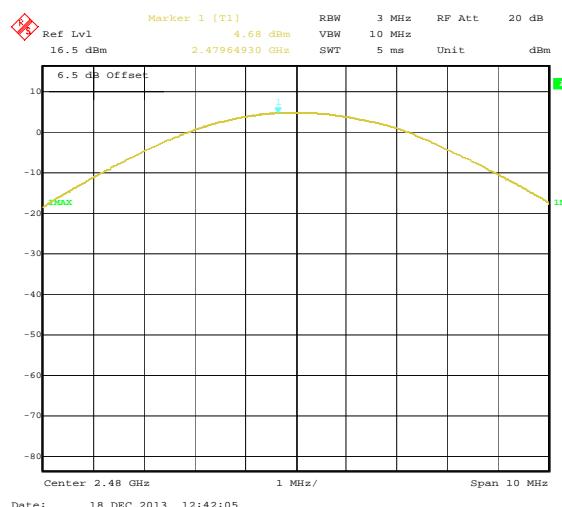
Modulation mode:	$\pi/4$ -DQPSK
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Lowest channel

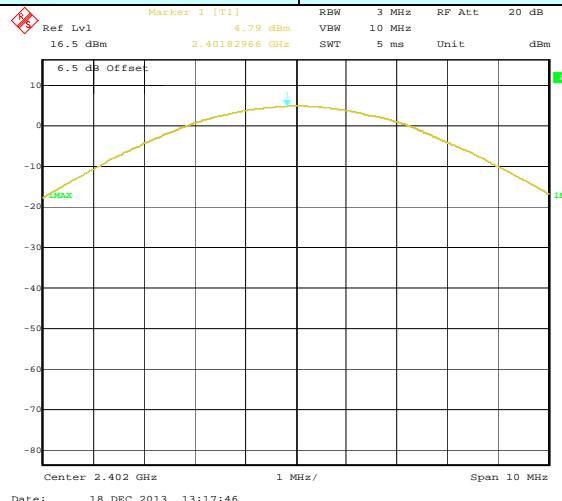


Middle channel

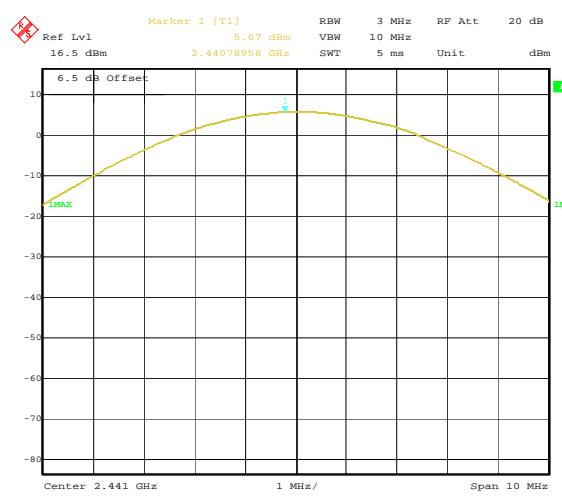


Highest channel

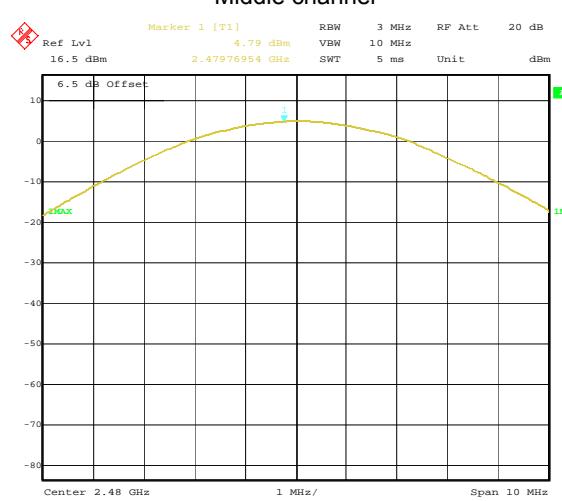
Modulation mode:	8DPSK
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Lowest channel

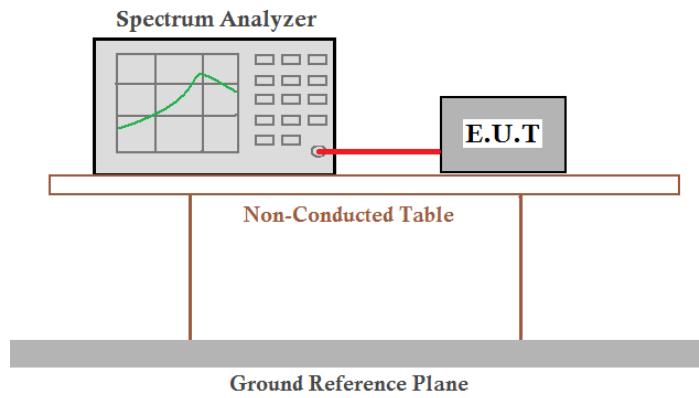


Middle channel



Highest channel

6.4 20dB Occupy Bandwidth

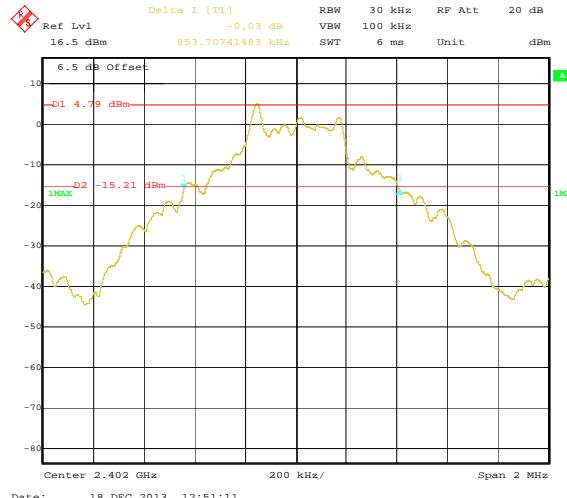
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and DA00-705
Receiver setup:	RBW=30 kHz, VBW=100 kHz, detector=Peak
Limit:	NA
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Measurement Data

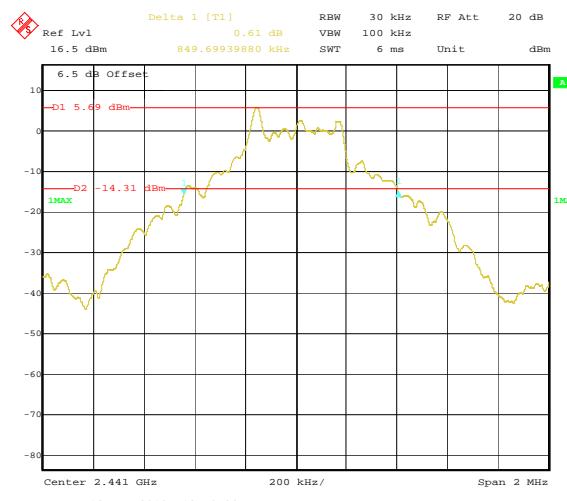
Test channel	20dB Occupy Bandwidth (kHz)		
	GFSK	$\pi/4$ -DQPSK	8DPSK
Lowest	853.71	1134.27	1178.36
Middle	849.70	1138.28	1178.36
Highest	845.69	1134.27	1178.36

Test plot as follows:

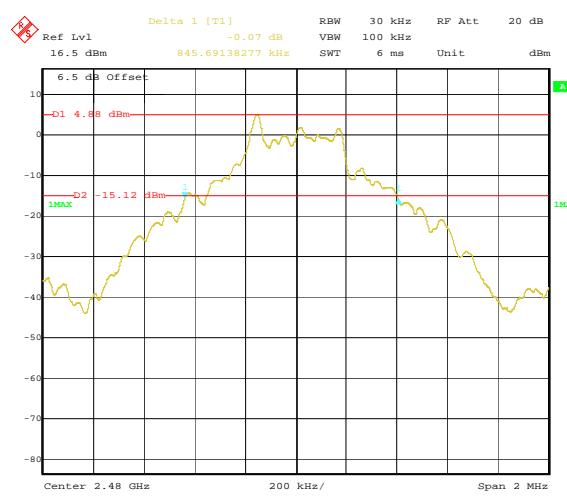
Modulation mode:	GFSK
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Lowest channel

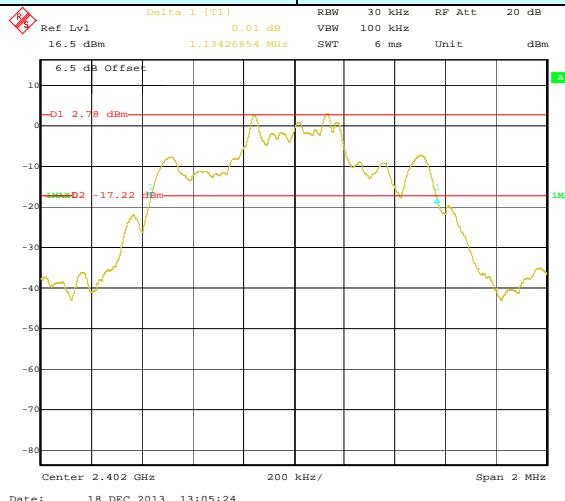


Middle channel

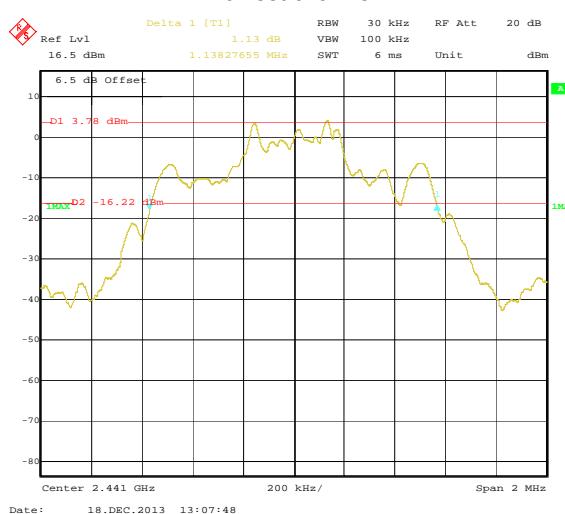


Highest channel

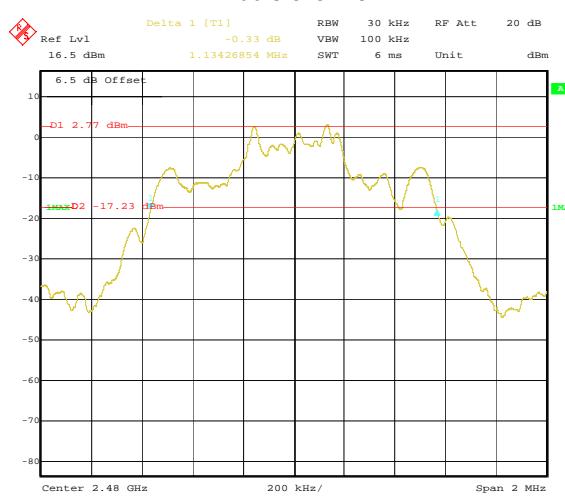
Modulation mode:	$\pi/4$ -DQPSK
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Lowest channel

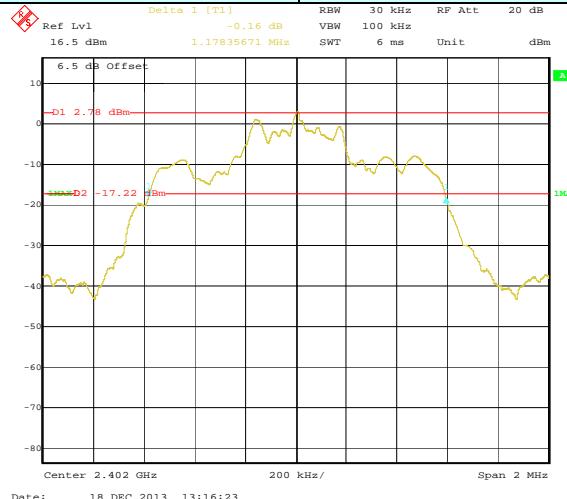


Middle channel

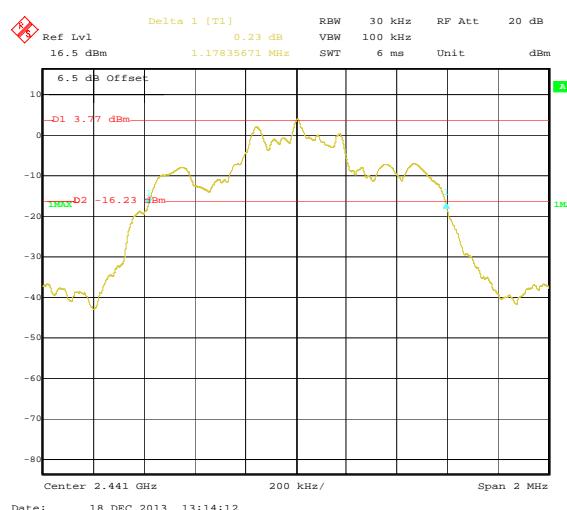


Highest channel

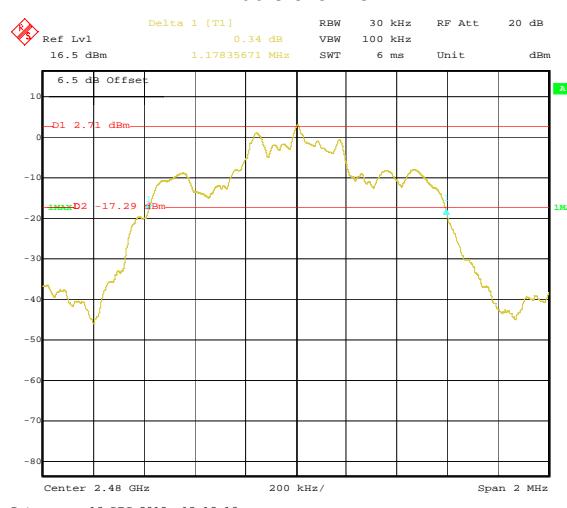
Modulation mode:	8DPSK
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Lowest channel

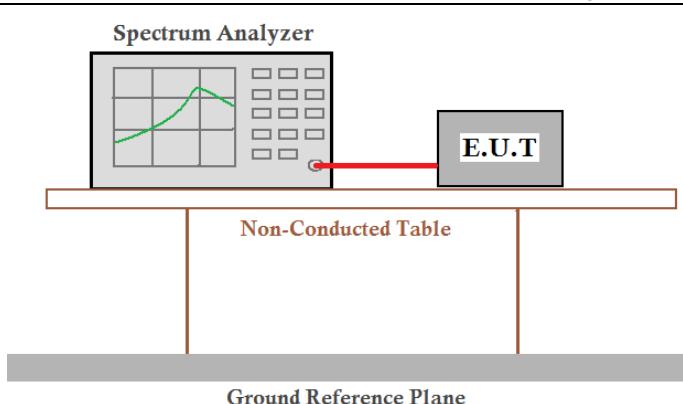


Middle channel



Highest channel

6.5 Carrier Frequencies Separation

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

Measurement Data

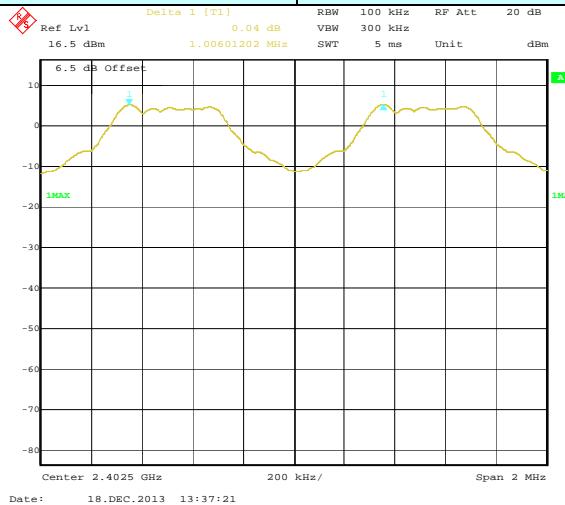
GFSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1006	569.14	Pass
Middle	1002	569.14	Pass
Highest	1002	569.14	Pass
$\pi/4$ -DQPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1002	758.85	Pass
Middle	1002	758.85	Pass
Highest	1002	758.85	Pass
8DPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1006	785.57	Pass
Middle	1002	785.57	Pass
Highest	1002	785.57	Pass

Note: According to section 6.4

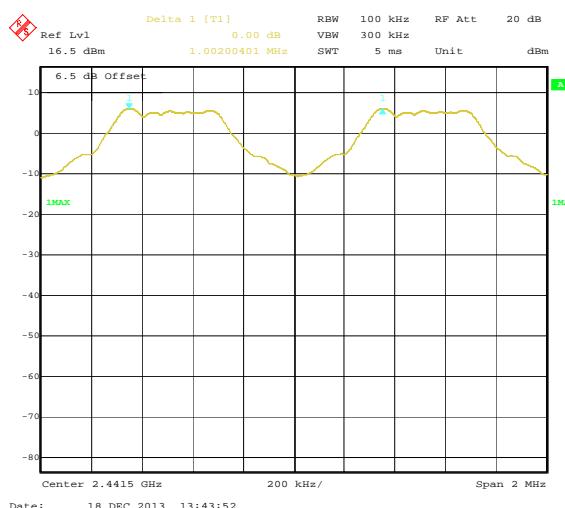
Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	853.71	569.14
$\pi/4$ -DQPSK	1138.28	758.85
8DPSK	1178.36	785.57

Test plot as follows:

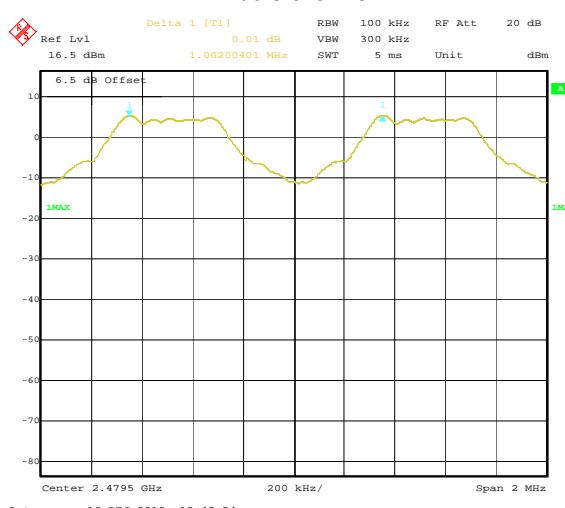
Modulation mode:	GFSK
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Lowest channel

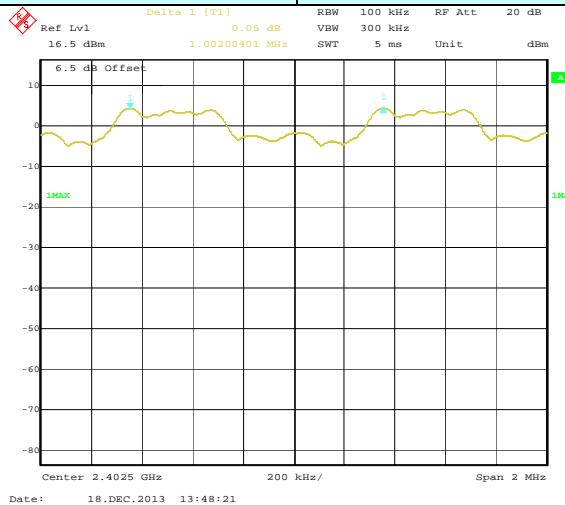


Middle channel

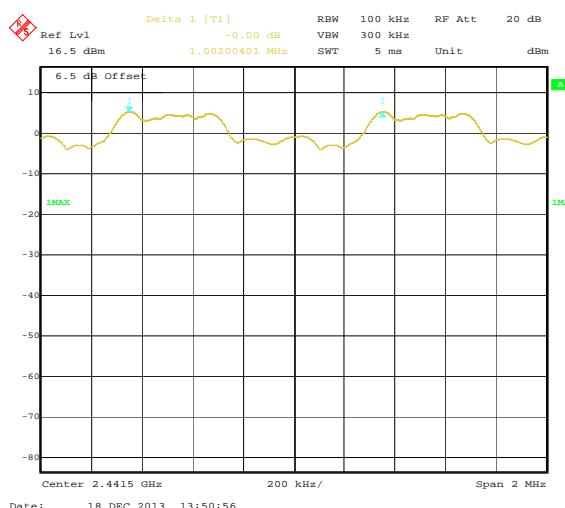


Highest channel

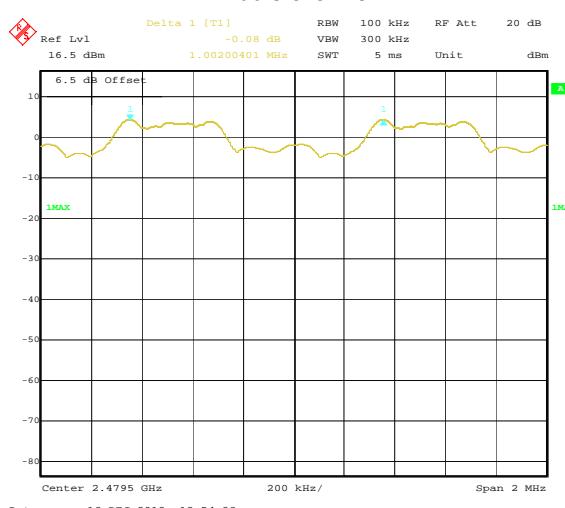
Modulation mode:	$\pi/4$ -DQPSK
------------------	----------------



Lowest channel

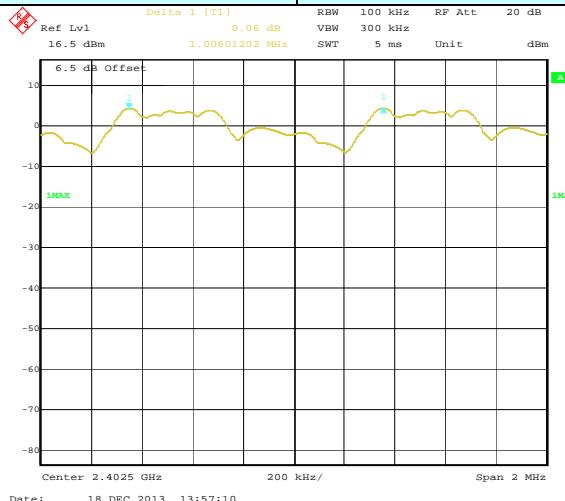


Middle channel

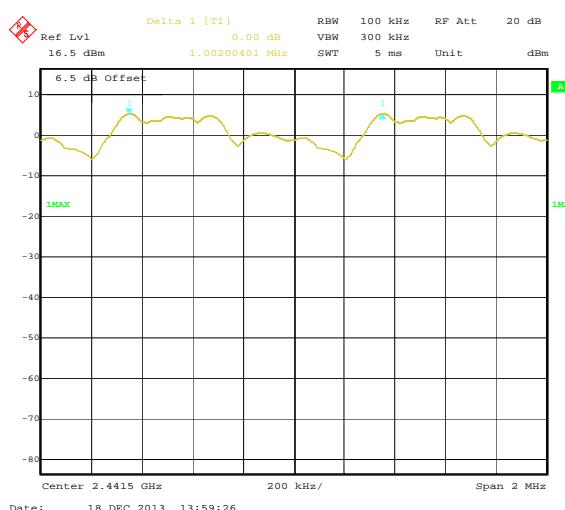


Highest channel

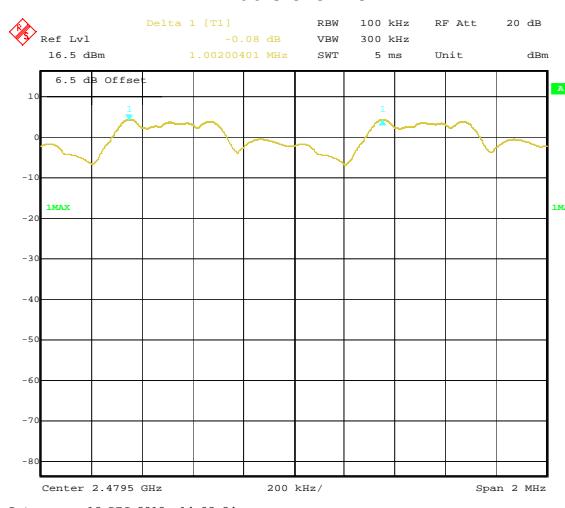
Modulation mode:	8DPSK
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Lowest channel

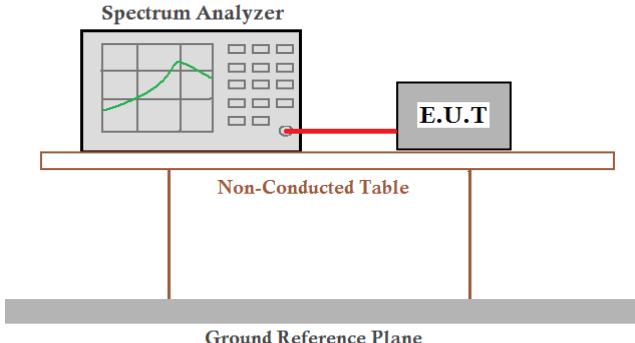


Middle channel



Highest channel

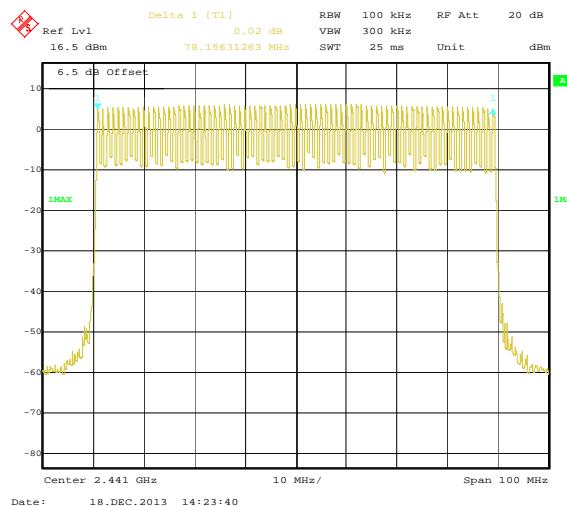
6.6 Hopping Channel Number

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

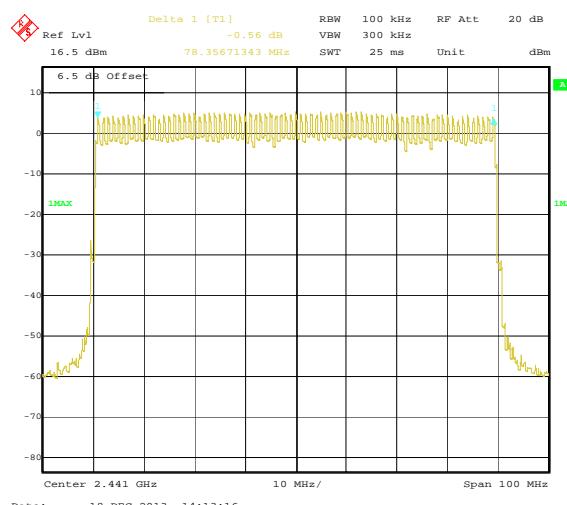
Measurement Data:

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

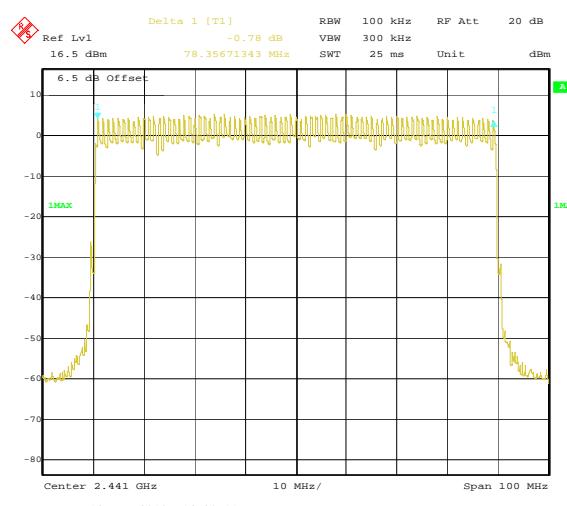
GFSK



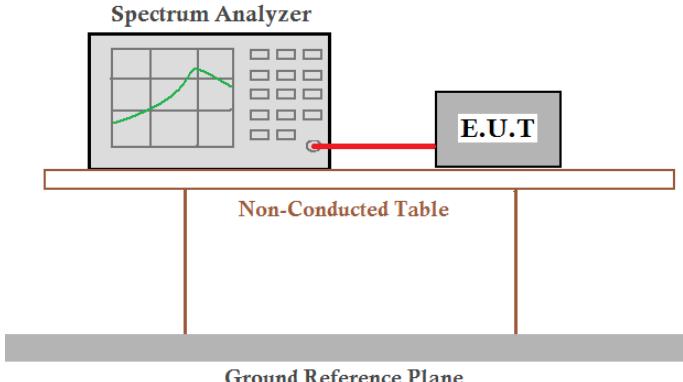
$\pi/4$ -DQPSK



8DPSK



6.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	
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	0.12512	0.4	Pass
	DH3	0.26544		
	DH5	0.31381		
$\pi/4$ -DQPSK	2-DH1	0.13024	0.4	Pass
	2-DH3	0.26832		
	2-DH5	0.31381		
8DPSK	3-DH1	0.12768	0.4	Pass
	3-DH3	0.26544		
	3-DH5	0.31296		

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

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

$$\text{DH1 time slot} = 0.391 * (1600 / (2 * 79)) * 31.6 = 125.12\text{ms}$$

$$\text{DH3 time slot} = 1.659 * (1600 / (4 * 79)) * 31.6 = 265.44\text{ms}$$

$$\text{DH5 time slot} = 2.942 * (1600 / (6 * 79)) * 31.6 = 313.81\text{ms}$$

$$2-\text{DH1 time slot} = 0.407 * (1600 / (2 * 79)) * 31.6 = 130.24\text{ms}$$

$$2-\text{DH3 time slot} = 1.677 * (1600 / (4 * 79)) * 31.6 = 268.32\text{ms}$$

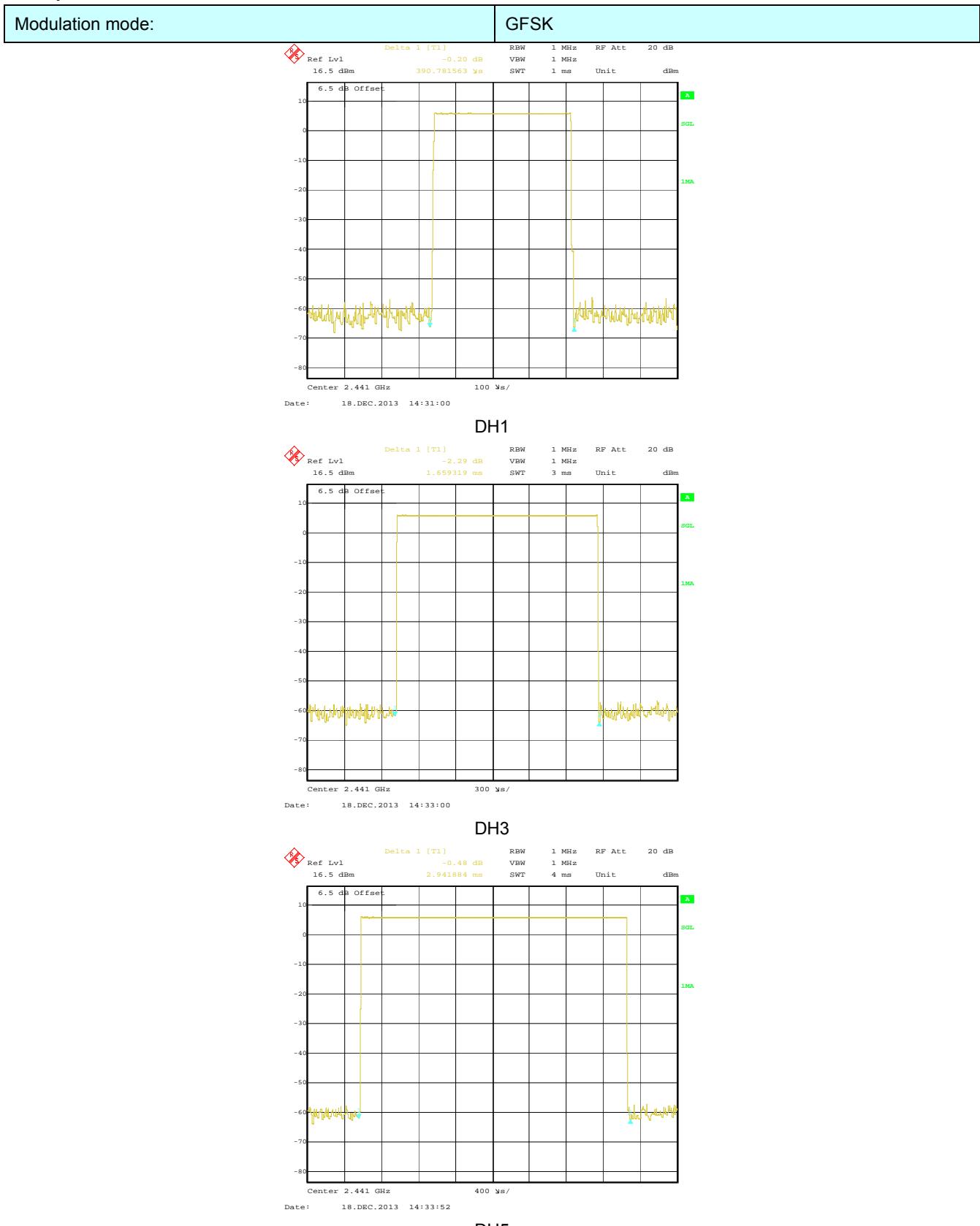
$$2-\text{DH5 time slot} = 2.942 * (1600 / (6 * 79)) * 31.6 = 313.81\text{ms}$$

$$3-\text{DH1 time slot} = 0.399 * (1600 / (2 * 79)) * 31.6 = 127.68\text{ms}$$

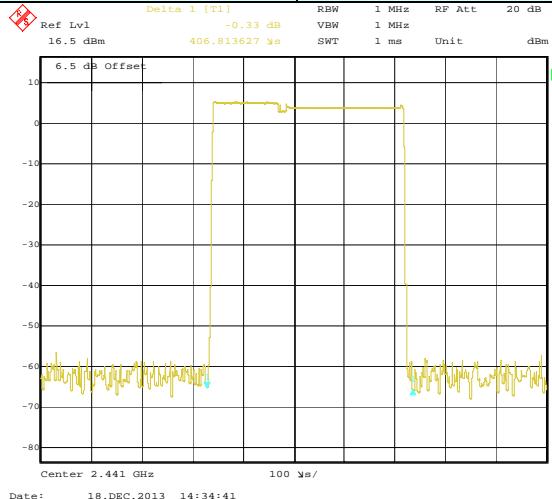
$$3-\text{DH3 time slot} = 1.659 * (1600 / (4 * 79)) * 31.6 = 265.44\text{ms}$$

$$3-\text{DH5 time slot} = 2.934 * (1600 / (6 * 79)) * 31.6 = 312.96\text{ms}$$

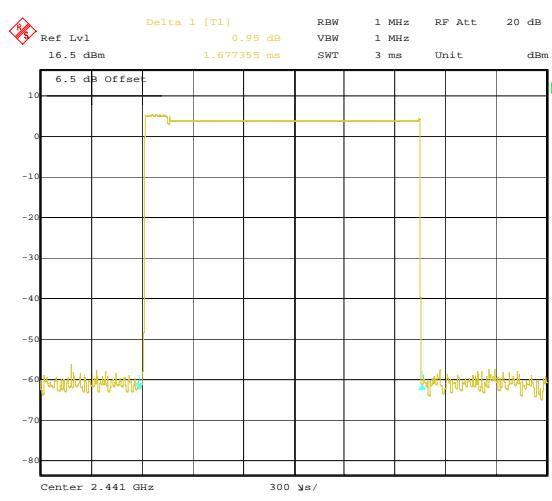
Test plot as follows:



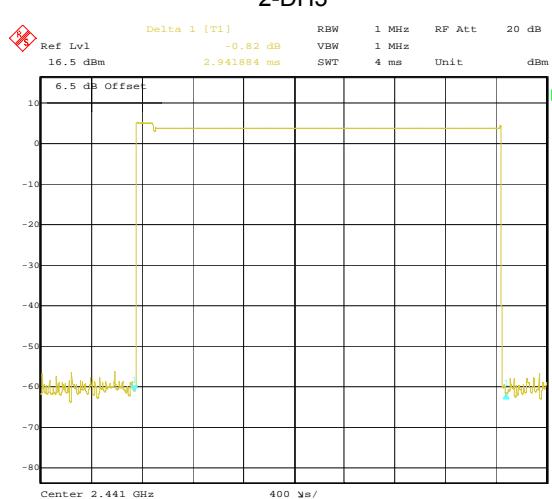
Modulation mode:	π/4-DQPSK
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2-DH1

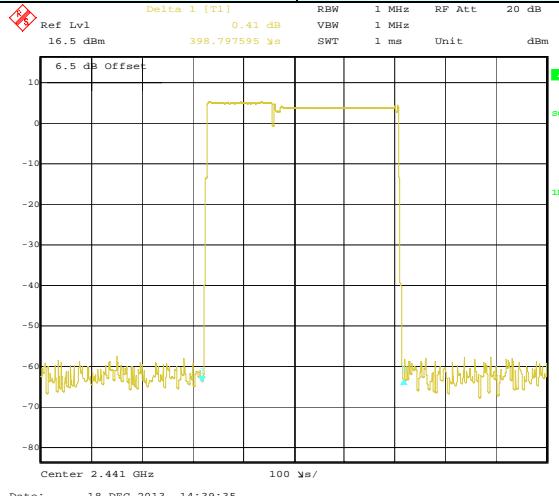


2-DH3

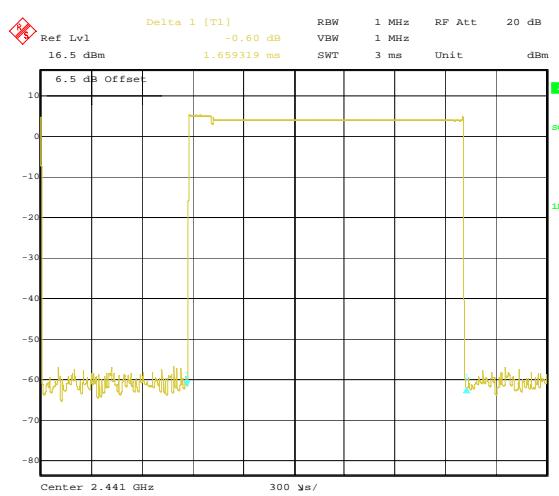


2-DH5

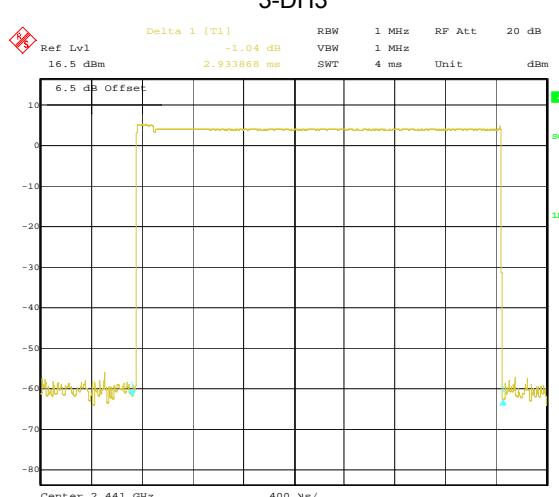
Modulation mode:	8DPSK
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3-DH1



3-DH3



3-DH5

6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement:

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

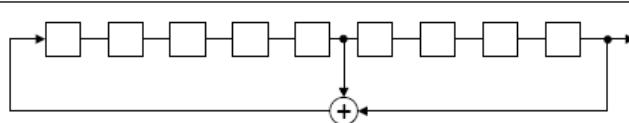
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

EUT Pseudorandom Frequency Hopping Sequence

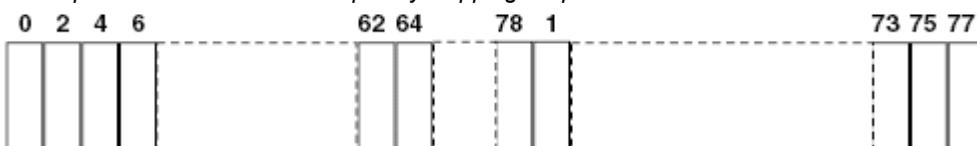
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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

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



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

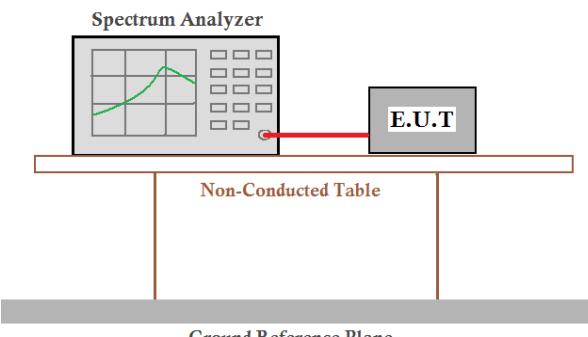


Each frequency used equally on the average by each transmitter.

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

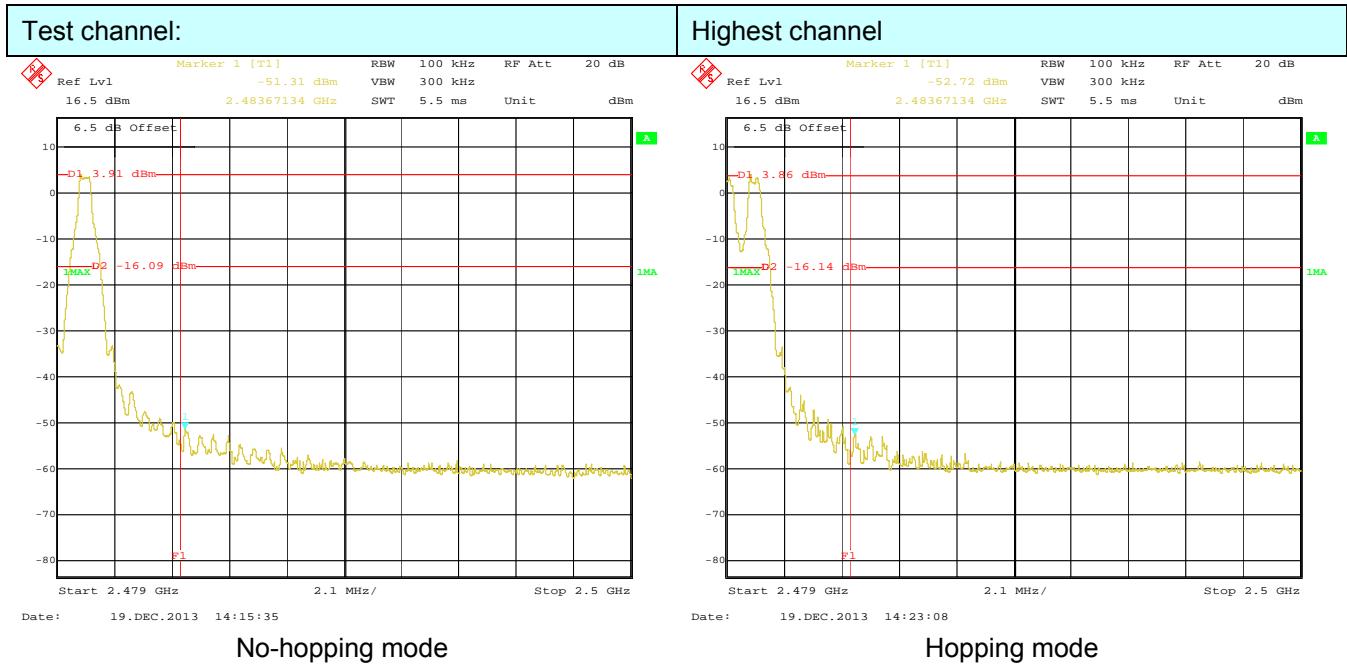
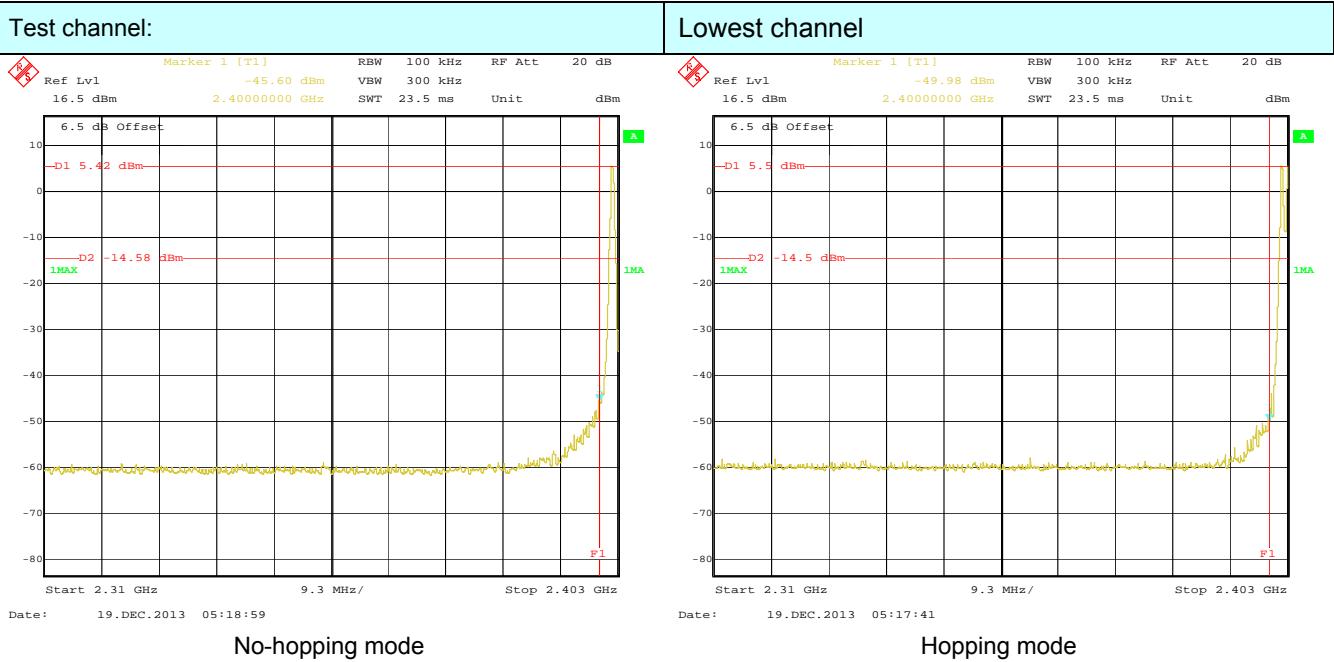
6.9 Band Edge

6.9.1 Conducted Emission Method

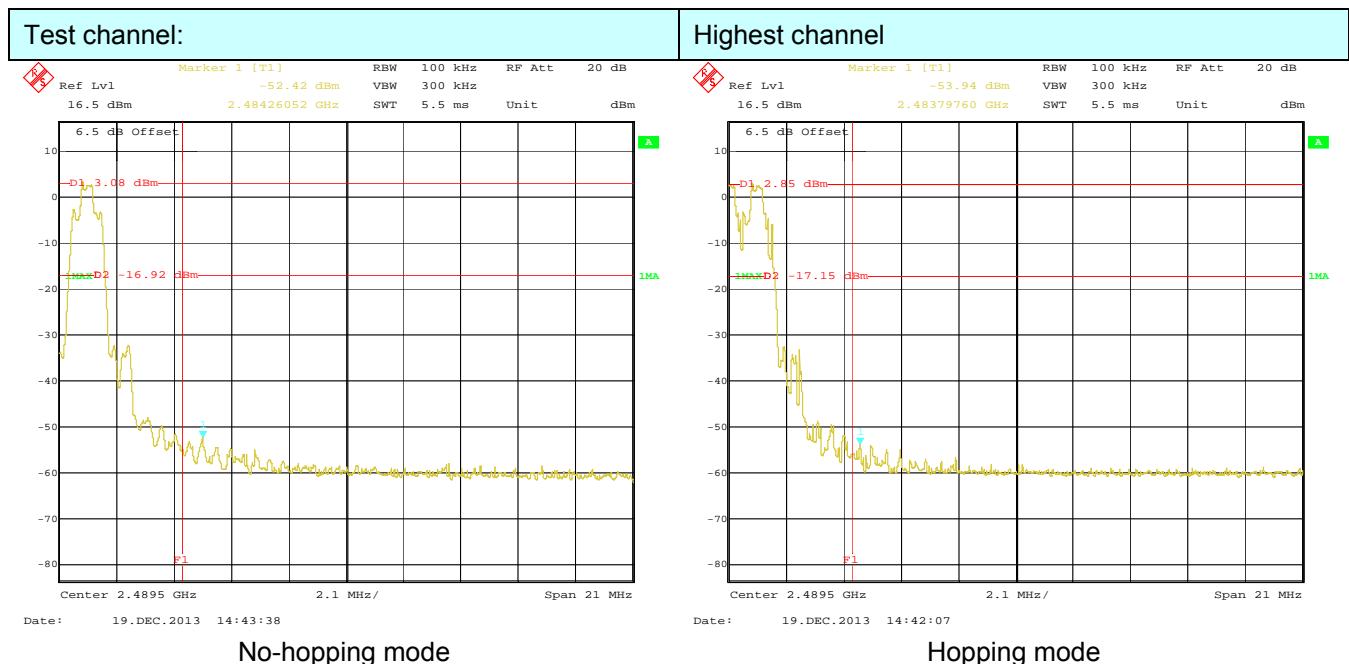
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and DA00-705
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that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

Test plot as follows:

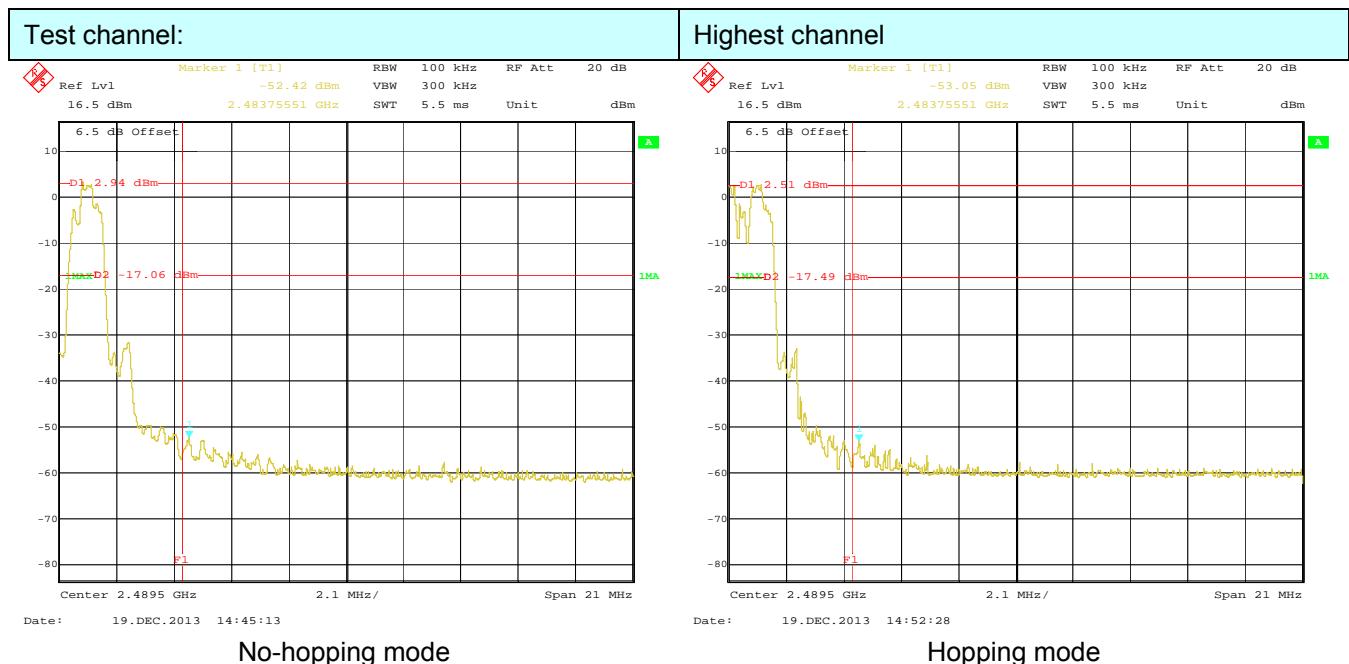
GFSK



$\pi/4$ -DQPSK



8DPSK



6.9.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.4: 2003								
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				
	Above 1GHz	Peak	1MHz	10Hz	Average Value				
Limit:	Frequency	Limit (dBuV/m @3m)		Remark					
	Above 1GHz	54.00		Average Value					
	Above 1GHz	74.00		Peak Value					
Test setup:									
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 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 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								

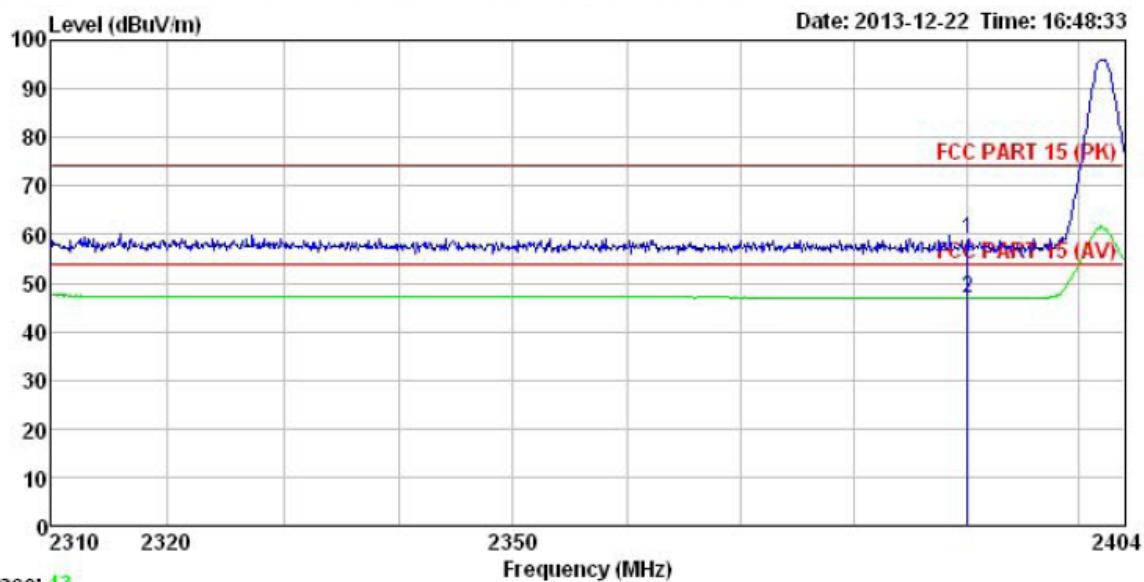
Remark:

- During the test, pre-scan the GFSK, π/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

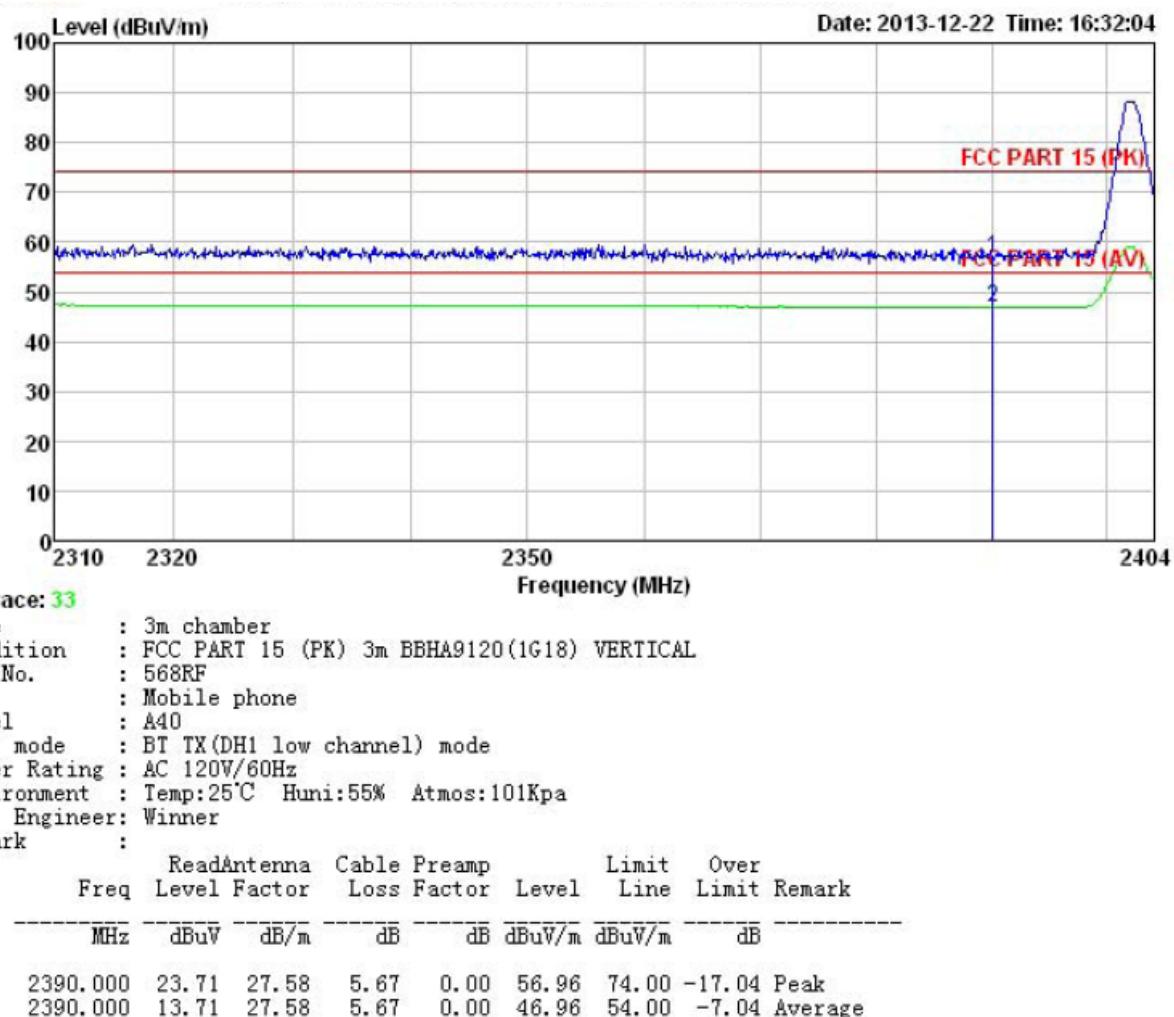
Test channel: Lowest

Horizontal:



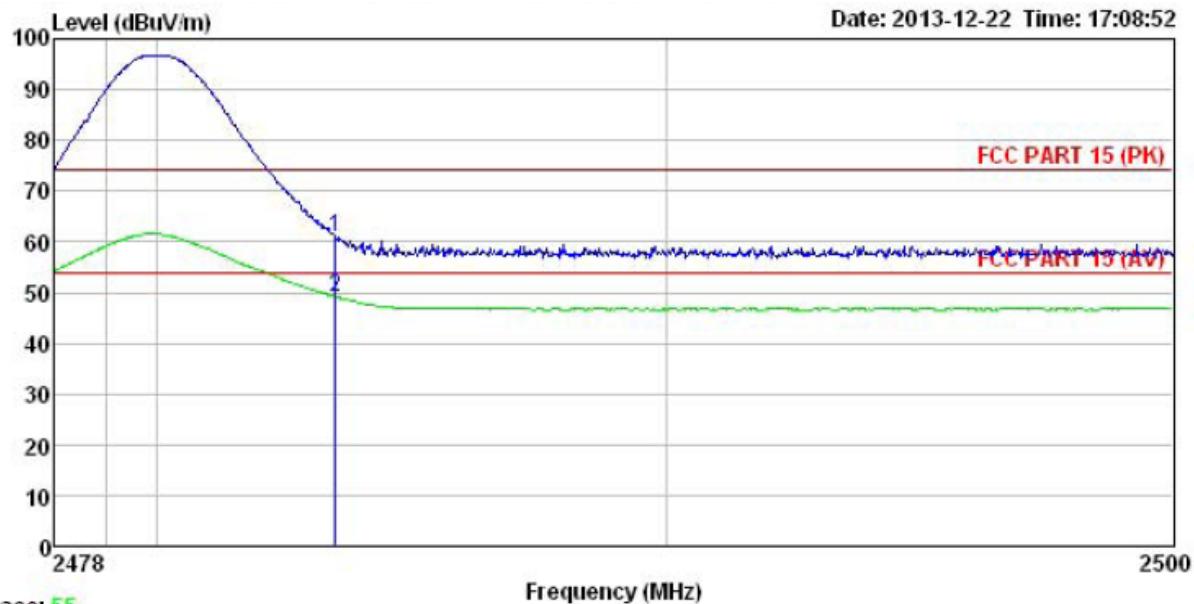
	ReadAntenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	25.88	27.58	5.67	0.00	59.13	74.00 -14.87 Peak
2	2390.000	13.76	27.58	5.67	0.00	47.01	54.00 -6.99 Average

Vertical:

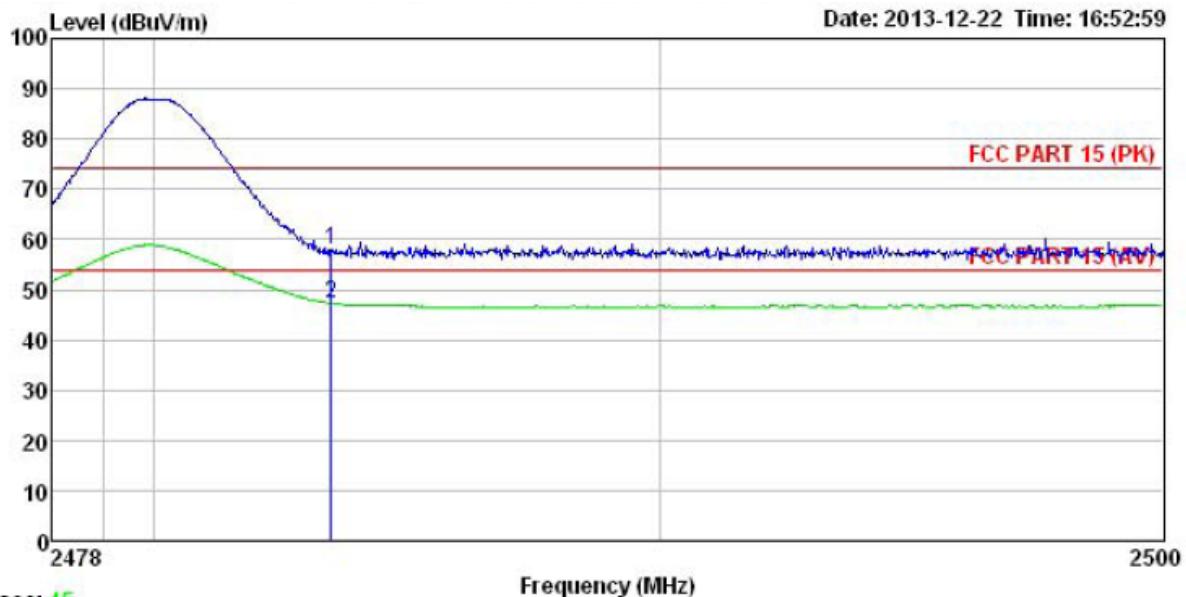


Test channel: Highest

Horizontal:



Vertical:



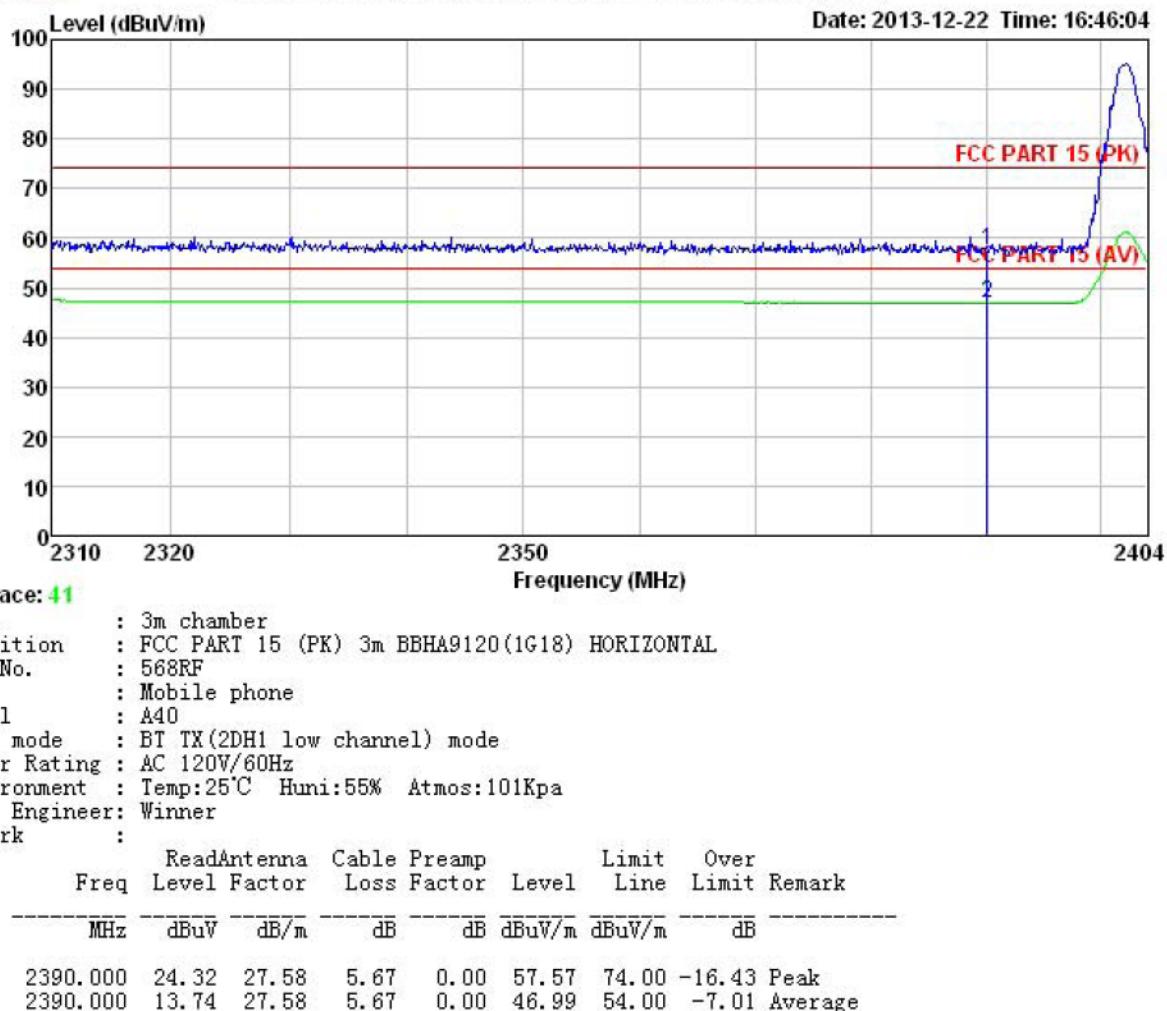
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
Job No. : 568RF
EUT : Mobile phone
Model : A40
Test mode : BT TX(DH1 high channel) mode
Power Rating : AC 120V/60Hz
Environment : Temp:25°C Huni:55% Atmos:101Kpa
Test Engineer: Winner
Remark :

	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	2483.500	24.63	27.52	5.70	0.00	57.85	74.00 -16.15 Peak
2	2483.500	14.06	27.52	5.70	0.00	47.28	54.00 -6.72 Average

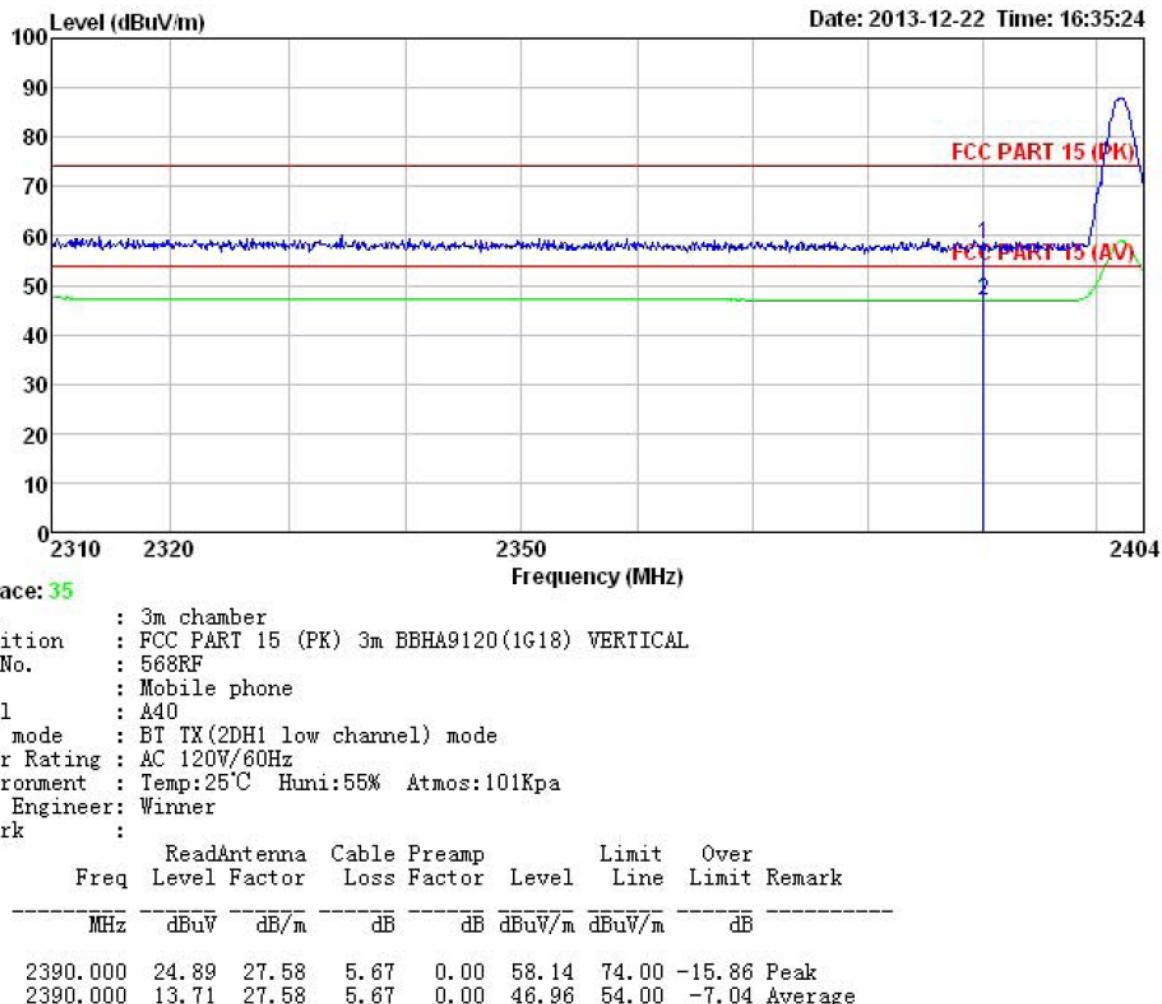
$\pi/4$ -DQPSK mode

Test channel: Lowest

Horizontal:

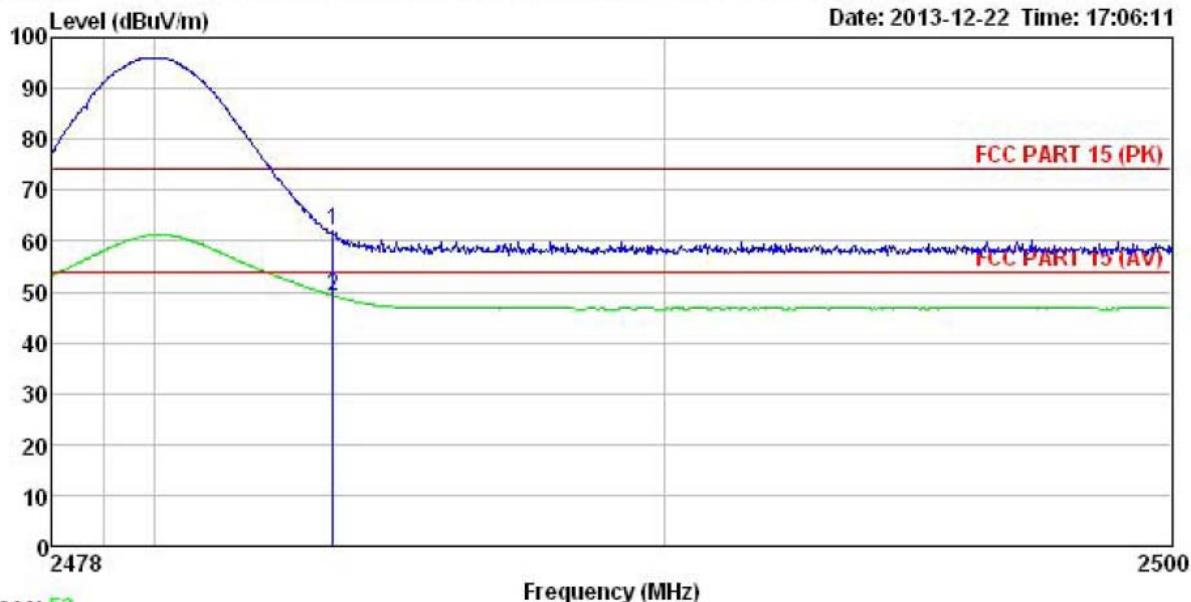


Vertical:



Test channel: Highest

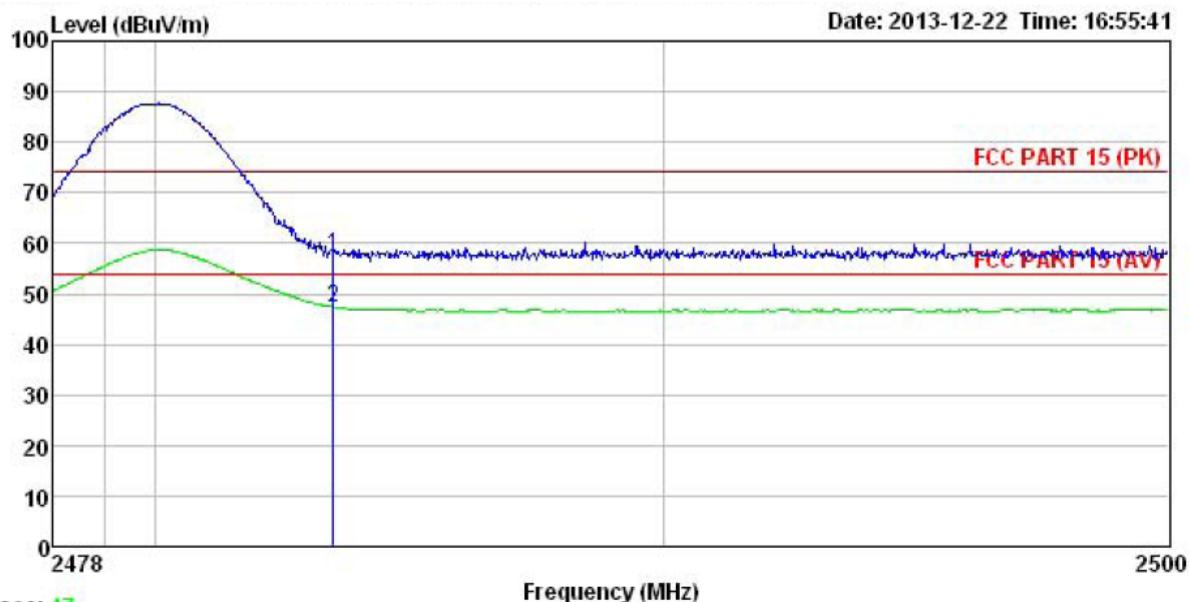
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120 (1G18) HORIZONTAL
 Job No. : 568RF
 EUT : Mobile phone
 Model : A40
 Test mode : BT TX(2DH1 high channel) mode
 Power Rating : AC 120W/60Hz
 Environment : Temp:25°C Huni:55% Atmos:101Kpa
 Test Engineer: Winner
 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	28.65	27.52	5.70	0.00	61.87	74.00	-12.13 Peak
2 2483.500	16.03	27.52	5.70	0.00	49.25	54.00	-4.75 Average

Vertical:



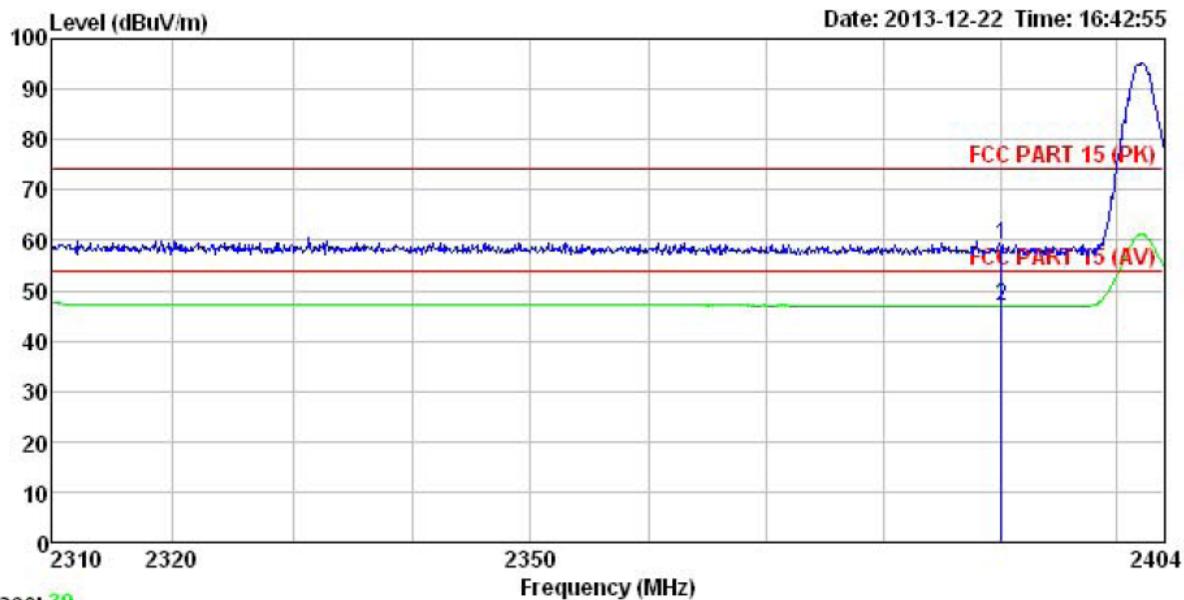
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 Job No. : 568RF
 EUT : Mobile phone
 Model : A40
 Test mode : BT TX(2DH1 high channel) mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Huni:55% Atmos:101Kpa
 Test Engineer: Wimmer
 Remark :

	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	2483.500	24.42	27.52	5.70	0.00	57.64	74.00	-16.36 Peak
2	2483.500	14.14	27.52	5.70	0.00	47.36	54.00	-6.64 Average

8DPSK mode

Test channel: Lowest

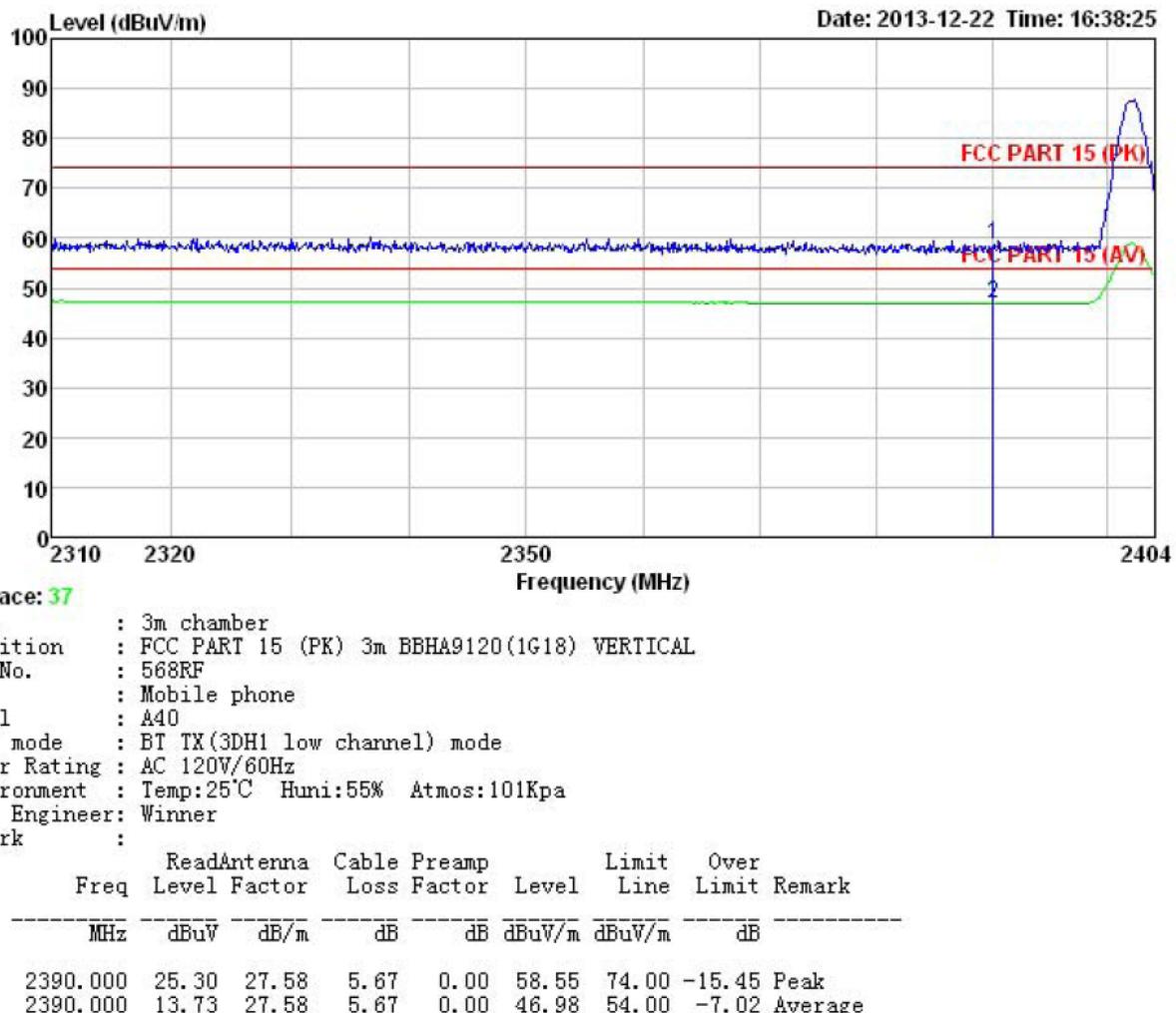
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 Job No. : 568RF
 EUT : Mobile phone
 Model : A40
 Test mode : BT TX(3DH1 low channel) mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Huni:55% Atmos:101Kpa
 Test Engineer: Winner
 Remark :

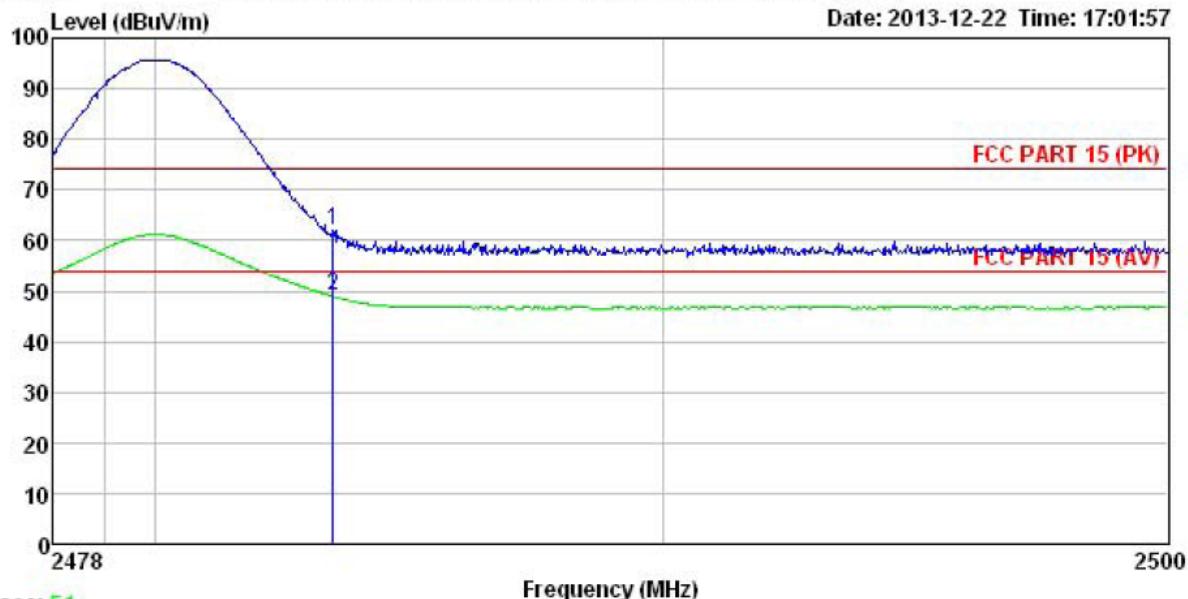
	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	25.77	27.58	5.67	0.00	59.02	74.00	-14.98 Peak
2	2390.000	13.73	27.58	5.67	0.00	46.98	54.00	-7.02 Average

Vertical:



Test channel: Highest

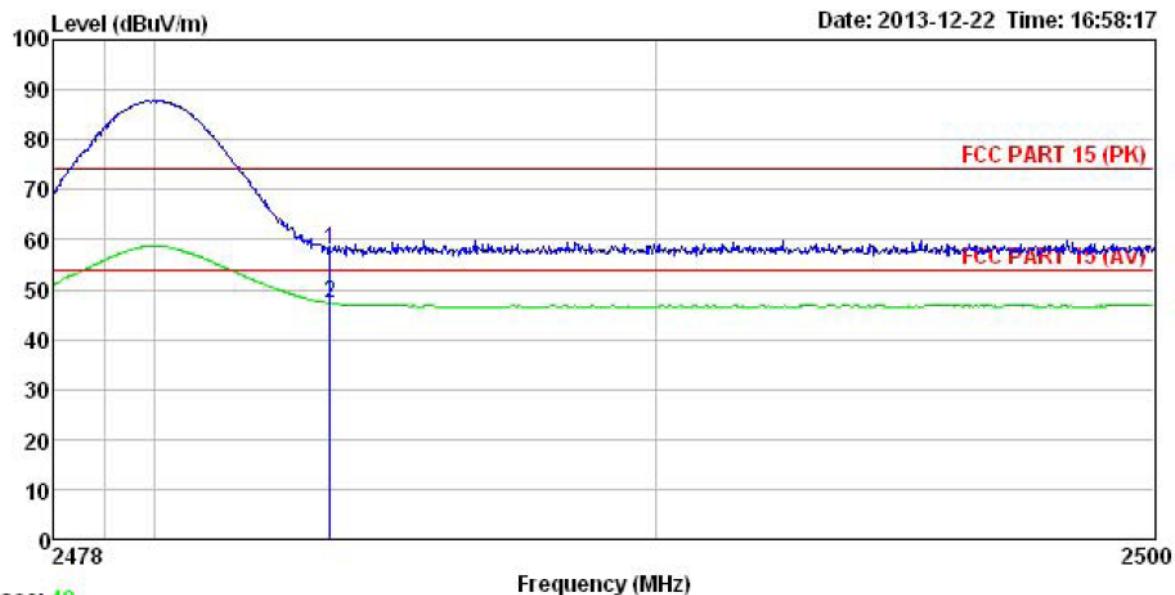
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
Job No. : 568RF
EUT : Mobile phone
Model : A40
Test mode : BT TX(3DH1 high channel) mode
Power Rating : AC 120V/60Hz
Environment : Temp:25'C Huni:55% Atmos:101Kpa
Test Engineer: Winner
Remark :

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	2483.500	28.88	27.52	5.70	0.00	62.10 74.00 -11.90 Peak
2	2483.500	15.70	27.52	5.70	0.00	48.92 54.00 -5.08 Average

Vertical:

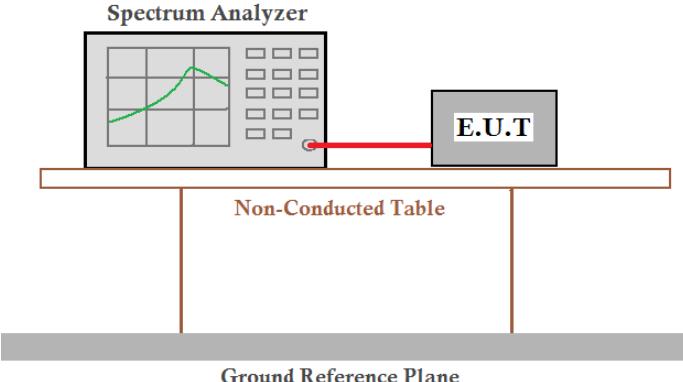


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 Job No. : 568RF
 EUT : Mobile phone
 Model : A40
 Test mode : BT TX(3DH1 high channel) mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Huni:55% Atmos:101Kpa
 Test Engineer: Winner
 Remark :

	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	24.77	27.52	5.70	0.00	57.99	74.00 -16.01 Peak
2	2483.500	14.05	27.52	5.70	0.00	47.27	54.00 -6.73 Average

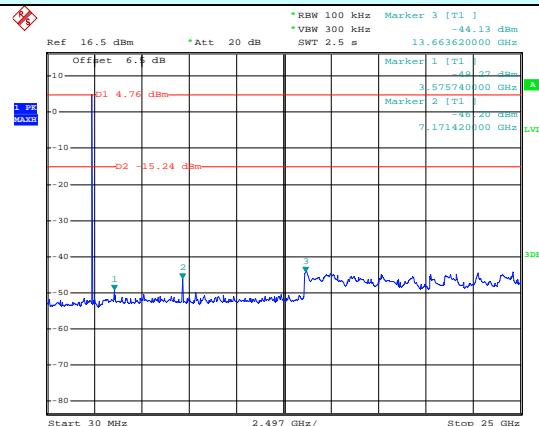
6.10 Spurious Emission

6.10.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 <p>The diagram illustrates the test setup for conducted emission testing. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a cable. The E.U.T is placed on a Non-Conducted Table, which sits above a Ground Reference Plane. The entire setup is designed to ensure proper grounding and signal transmission.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

GFSK

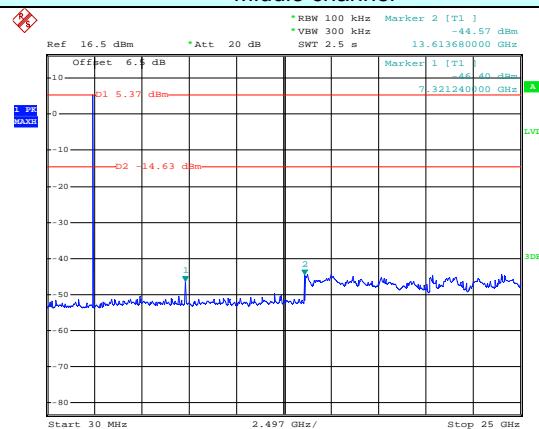
Lowest channel



Date: 20.DEC.2013 08:59:06

30MHz~25GHz

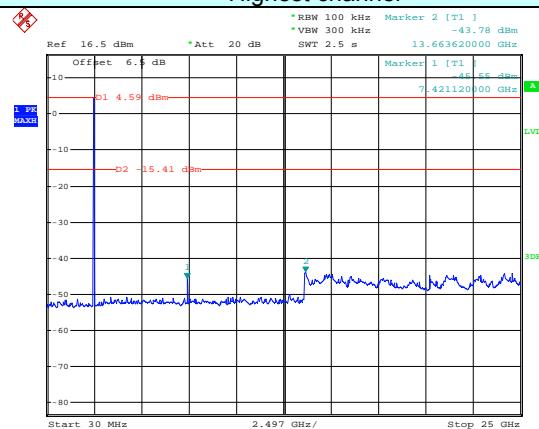
Middle channel



Date: 20.DEC.2013 09:01:35

30MHz~25GHz

Highest channel



Date: 20.DEC.2013 09:05:06

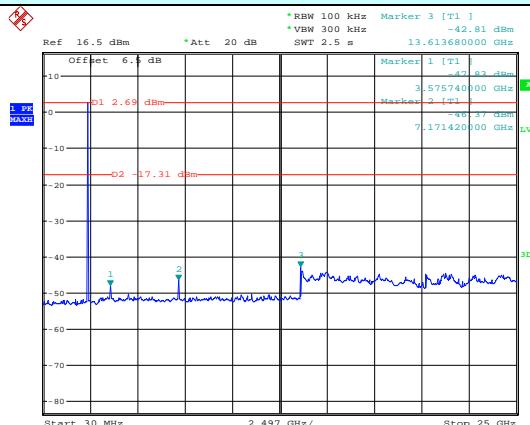
30MHz~25GHz

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

Project No.: CCIS131200568RF

$\pi/4$ -DQPSK

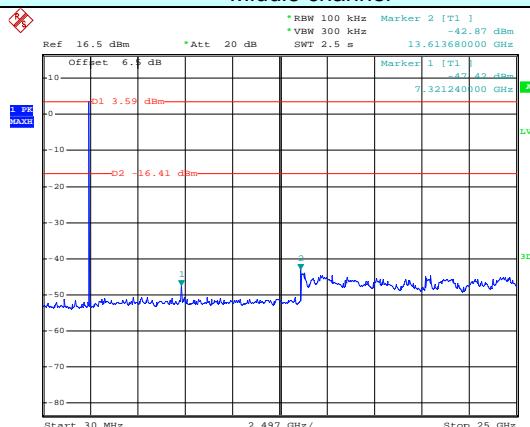
Lowest channel



Date: 20.DEC.2013 09:10:22

30MHz~25GHz

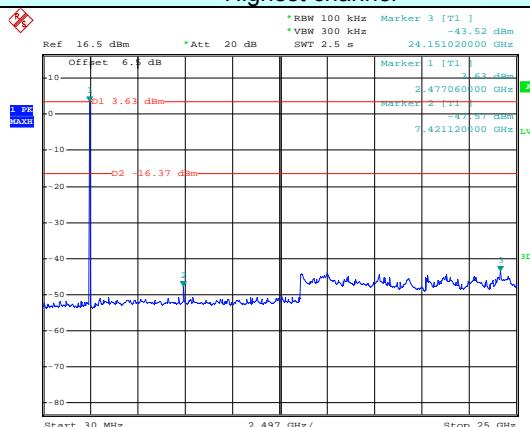
Middle channel



Date: 20.DEC.2013 09:15:26

30MHz~25GHz

Highest channel



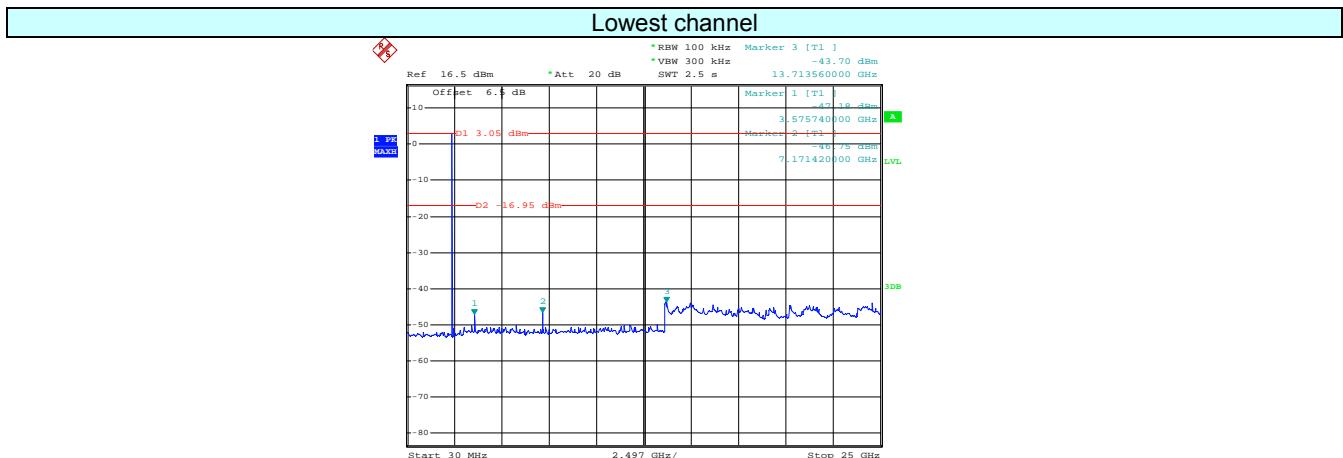
Date: 20.DEC.2013 09:18:12

30MHz~25GHz

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
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Bao'an District, Shenzhen, Guangdong, China

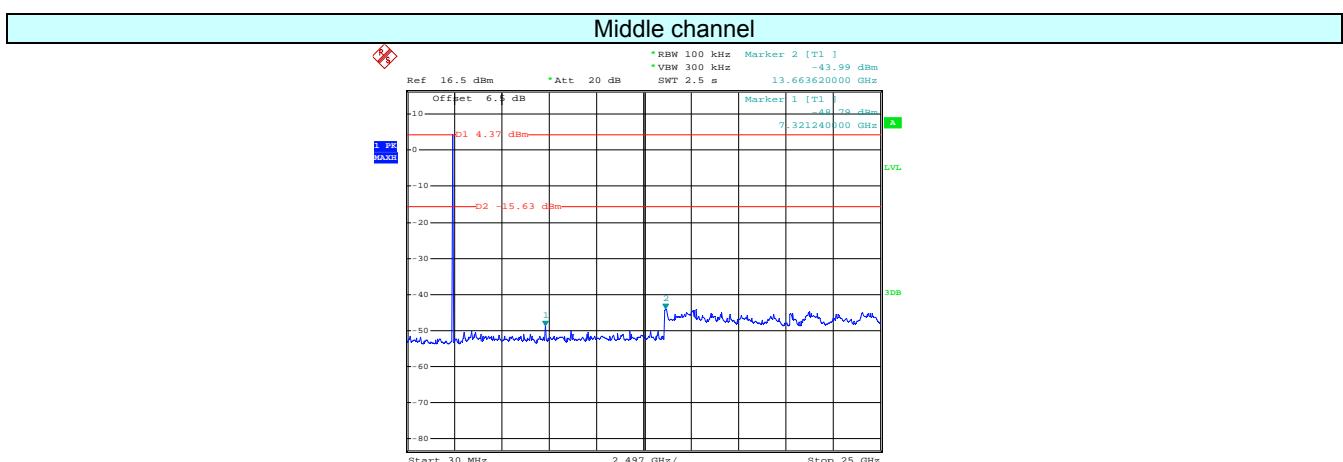
Project No.: CCIS131200568RF

8DPSK



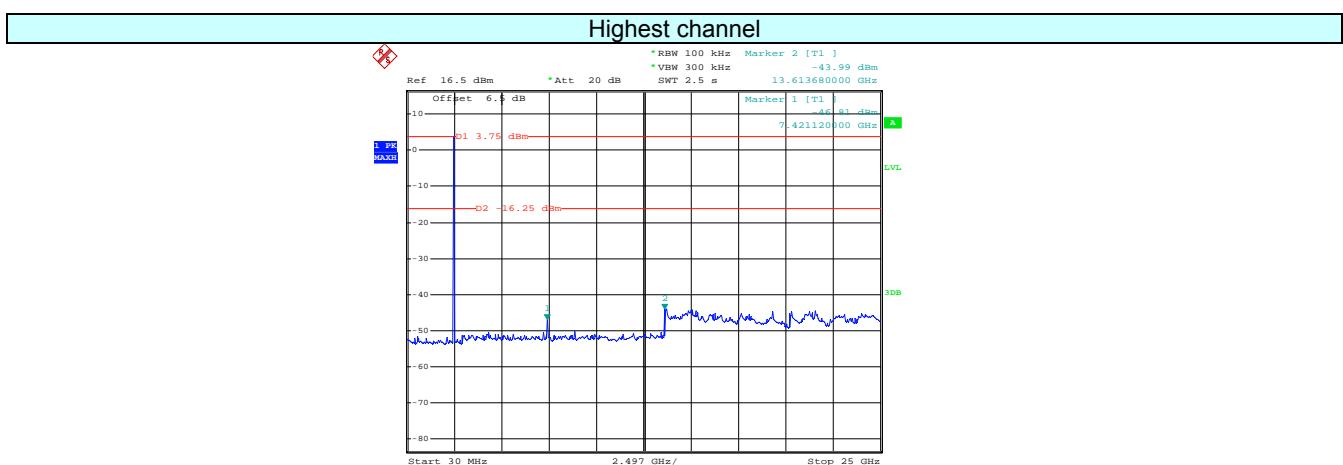
Date: 20.DEC.2013 09:23:11

30MHz~25GHz



Date: 20.DEC.2013 09:28:41

30MHz~25GHz



Date: 20.DEC.2013 09:34:20

30MHz~25GHz

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

Project No.: CCIS131200568RF

6.10.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209													
Test Method:	ANSI C63.4: 2003													
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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.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

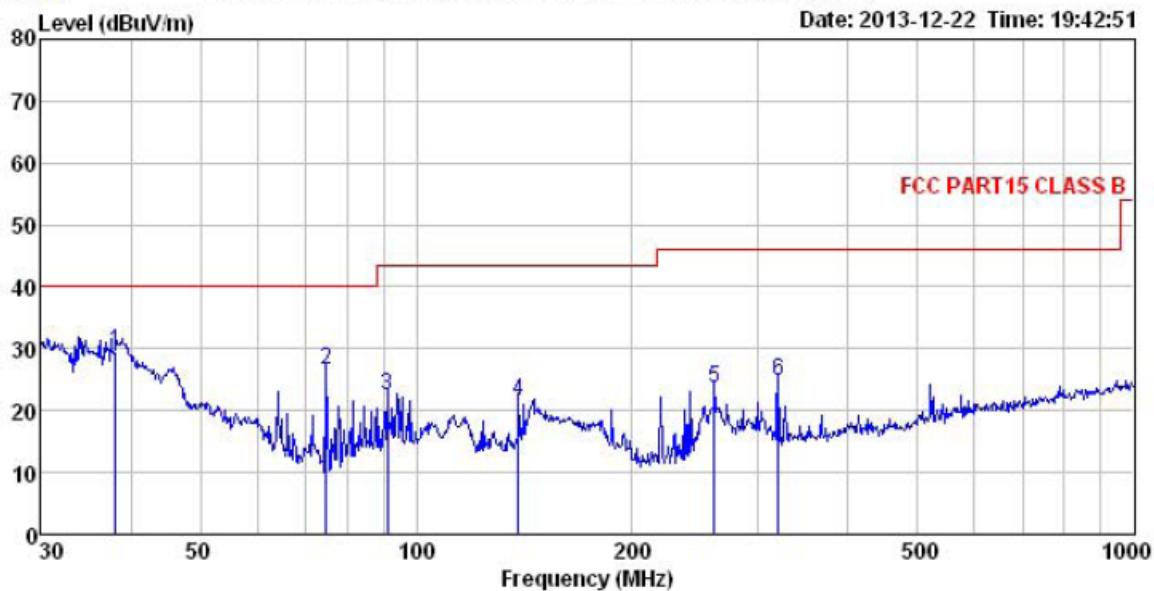
Remark:

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

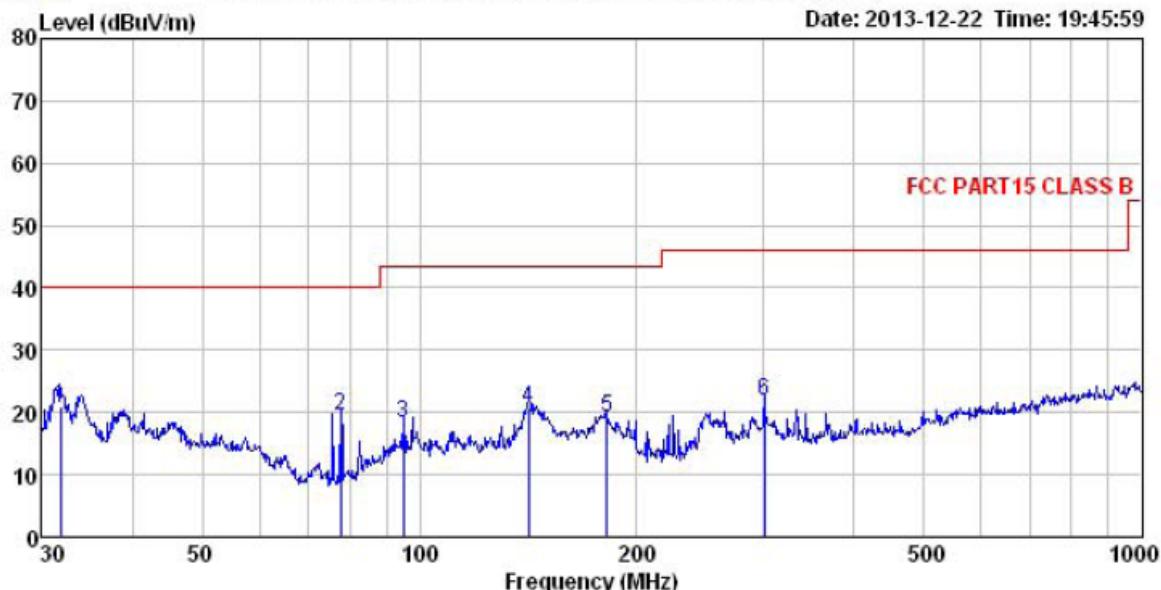
Vertical:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL
 Job No. : 568RF
 EUT : Mobile phone
 Model : A40
 Test mode : BT TX mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25'C Huni:55% Atmos:101Kpa
 Test Engineer: Winner
 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	38.078	42.30	13.11	1.14	27.09	29.46	40.00	-10.54 QP
2	74.919	47.14	7.80	1.63	30.13	26.44	40.00	-13.56 QP
3	91.175	38.29	12.16	2.03	30.07	22.41	43.50	-21.09 QP
4	138.874	40.43	8.24	2.38	29.40	21.65	43.50	-21.85 QP
5	260.144	38.34	12.09	2.84	29.56	23.71	46.00	-22.29 QP
6	319.937	38.06	13.33	3.00	29.54	24.85	46.00	-21.15 QP

Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL
 Job No. : 568RF
 EUT : Mobile phone
 Model : A40
 Test mode : BT TX mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Huni:55% Atmos:101Kpa
 Test Engineer: Winner
 Remark :

Freq	Read	Antenna	Cable	Preamp	Limit		Over	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	31.843	34.30	12.32	0.85	26.47	21.00	40.00	-19.00 QP
2	77.865	39.81	8.26	1.64	30.13	19.58	40.00	-20.42 QP
3	95.093	33.43	12.84	2.01	30.08	18.20	43.50	-25.30 QP
4	141.826	39.51	8.20	2.42	29.35	20.78	43.50	-22.72 QP
5	181.920	33.61	9.84	2.74	27.02	19.17	43.50	-24.33 QP
6	300.367	35.21	13.06	2.94	29.44	21.77	46.00	-24.23 QP

Above 1GHz:

Test channel:	Lowest	Level:	Peak
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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	47.73	31.53	8.90	40.24	47.92	74.00	-26.08	Vertical
7206.00	---	---	---	---	---	---	---	Vertical
9608.00	---	---	---	---	---	---	---	Vertical
4804.00	48.66	31.53	8.90	40.24	48.85	74.00	-25.15	Horizontal
7206.00	---	---	---	---	---	---	---	Horizontal
9608.00	---	---	---	---	---	---	---	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	35.54	31.53	8.90	40.24	35.73	54.00	-18.27	Vertical
7206.00	---	---	---	---	---	---	---	Vertical
9608.00	---	---	---	---	---	---	---	Vertical
4804.00	36.41	31.53	8.90	40.24	36.60	54.00	-17.40	Horizontal
7206.00	---	---	---	---	---	---	---	Horizontal
9608.00	---	---	---	---	---	---	---	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.

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	47.69	31.58	8.98	40.15	48.10	74.00	-25.90	Vertical
7323.00	---	---	---	---	---	---	---	Vertical
9764.00	---	---	---	---	---	---	---	Vertical
4882.00	47.32	31.58	8.98	40.15	47.73	74.00	-26.27	Horizontal
7323.00	---	---	---	---	---	---	---	Horizontal
9764.00	---	---	---	---	---	---	---	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	35.24	31.58	8.98	40.15	35.65	54.00	-18.35	Vertical
7323.00	---	---	---	---	---	---	---	Vertical
9764.00	---	---	---	---	---	---	---	Vertical
4882.00	35.41	31.58	8.98	40.15	35.82	54.00	-18.18	Horizontal
7323.00	---	---	---	---	---	---	---	Horizontal
9764.00	---	---	---	---	---	---	---	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.

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	47.42	31.69	9.08	40.03	48.16	74.00	-25.84	Vertical
7440.00	---	---	---	---	---	---	---	Vertical
9920.00	---	---	---	---	---	---	---	Vertical
4960.00	47.74	31.69	9.08	40.03	48.48	74.00	-25.52	Horizontal
7440.00	---	---	---	---	---	---	---	Horizontal
9920.00	---	---	---	---	---	---	---	Horizontal

Test channel:	Highest	Level:	Average
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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	35.65	31.69	9.08	40.03	36.39	54.00	-17.61	Vertical
7440.00	---	---	---	---	---	---	---	Vertical
9920.00	---	---	---	---	---	---	---	Vertical
4960.00	35.87	31.69	9.08	40.03	36.61	54.00	-17.39	Horizontal
7440.00	---	---	---	---	---	---	---	Horizontal
9920.00	---	---	---	---	---	---	---	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.