

Report No: CCIS15120095702

FCC REPORT

(Bluetooth)

Applicant: Interglobe Connection Corp

Address of Applicant: 7500 NW 25th Street 112 Miami, Florida 33122 USA

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: C100

Trade mark: SOLE

FCC ID: 2AC7ISOLE- C100

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

Date of sample receipt: 14 Dec., 2015

Date of Test: 14 Dec., to 06 Jan., 2016

Date of report issued: 06 Jan., 2016

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	06 Jan., 2016	Original

Tested by:	Zora Lee	Date:	06 Jan., 2016		
	Test Engineer				

Reviewed by:

Project Engineer

Date: 06 Jan., 2016





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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.



Report No: CCIS15120095702

5 General Information

5.1 Client Information

Applicant:	Interglobe Connection Corp
Address of Applicant:	7500 NW 25th Street 112 Miami, Florida 33122 USA

5.2 General Description of E.U.T.

Product Name:	Mobile Phone			
Model No.:	C100			
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:	0 dBi			
Power supply:	Rechargeable Li-ion Battery DC3.7V-900mAh			
AC adapter:	Input:100-240V AC, 50/60Hz 0.15A			
	Output:5V DC MAX 500mA			





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: Cl	nannel 0, 39 &7	8 selected for	or GFSK, π/4-D	QPSK and 8	BDPSK.			

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



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5.3 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 SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017		
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-28-2015	03-28-2016		
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016		
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016		
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016		
6	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016		
8	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2015	03-28-2016		
9	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2015	03-28-2016		
10	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016		

Cond	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	08-23-2014	08-22-2017				
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:

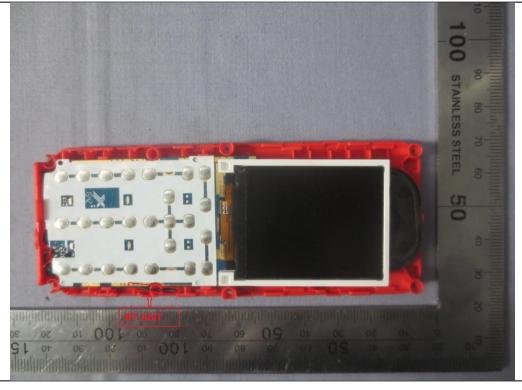
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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

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

E.U.T Antenna:

The Bluetooth antenna is an integral antenna which permanently attached, and the best case gain of the antenna is 0 dBi.







6.2 Conducted Emissions

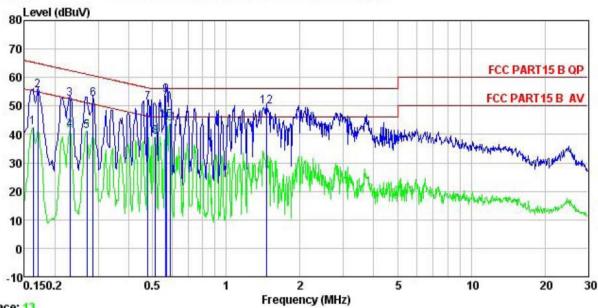
0.2	Conducted Linissions							
	Test Requirement:	FCC Part 15 C Section 15.207						
	Test Method:	ANSI C63.4:2009						
	Test Frequency Range:	150 kHz to 30 MHz						
	Class / Severity:	Class B						
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, S	weep time=auto					
	Limit:	5	Limit (c	lBuV)				
		Frequency range (MHz)	Average					
		0.15-0.5	66 to 56*	56 to 46*				
		0.5-5	56	46				
		5-30	60	50				
		* Decreases with the logarithn	n of the frequency.					
	Test setup:	Reference Plane	•	_				
		AUX Equipment Test table/Insulation plane Remark E.U.T Equipment Under Test LISN Filter AC power EMI Receiver EVI: Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m						
	Test procedure:	 The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impedance. The peripheral devices are LISN that provides a 50ohm termination. (Please refer to photographs). Both sides of A.C. line are interference. In order to find positions of equipment and according to ANSI C63.4: 2 	n network (L.I.S.N.). The edance for the measuri also connected to the m/50uH coupling imped to the block diagram of checked for maximum d the maximum emissic all of the interface cab	nis provides a ng equipment. main power through a dance with 500hm the test setup and conducted on, the relative oles must be changed				
	Test Uncertainty:	-		±3.28 dB				
	Test Instruments:	Refer to section 5.7 for details	,					
	Test mode:	Bluetooth (Continuous transm						
	Test results:	Pass						
		<u> </u>						

Measurement Data





Line:



Trace: 13 Site

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

EUT

Model : C100 Test Mode : BT mode
Power Rating : AC120/60Hz
Environment : Temp: 23 C Huni:56% Atmos:101KPa

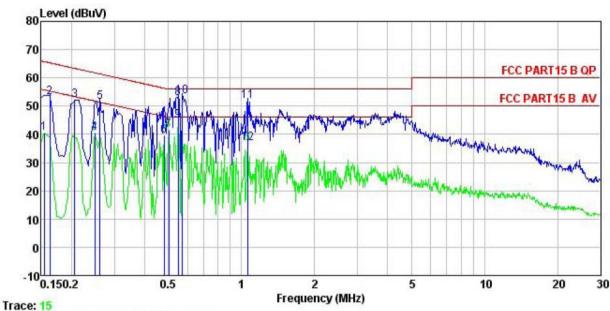
Test Engineer: Zora

Remark

	Freq	Read Level	LISN Factor	Cable Loss		Limit Line		Remark
	MHz	dBu∀	dB	₫B	dBu₹	dBu∜	₫B	
1	0.162	31.34	0.27	10.77	42.38	55.34	-12.96	Average
2	0.170	44.26	0.27	10.77	55.30	64.94	-9.64	QP
3	0.230	41.34	0.27	10.75	52.36	62.44	-10.08	QP
1 2 3 4 5 6 7 8 9	0.230	30.32	0.27	10.75	41.34	52.44	-11.10	Average
5	0.270	30.24	0.27	10.75	41.26	51.12	-9.86	Average
6	0.286	41.35	0.26	10.74	52.35	60.63		
7	0.479	40.16	0.29	10.75	51.20	56.36	-5.16	QP
8	0.513	28.27	0.28	10.76	39.31	46.00	-6.69	Average
	0.567	42.62	0.26	10.77	53.65	56.00	-2.35	QP
10	0.570	33.92	0.26	10.77	44.95	46.00	-1.05	Average
11	0.589	32.62	0.26	10.77	43.65	46.00	-2.35	Average
12	1.464	38.59	0.26	10.92	49.77	56.00	-6.23	QP



Neutral:



Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

EUT : Mobile Phone

Model C100 : BT mode Test Mode

Power Rating: AC120/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Zora

Nemark.	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>d</u> B	<u>d</u> B	dBu₹	dBu₹	<u>d</u> B	
1	0.154	29.41	0.25	10.78	40.44	55.78	-15.34	Average
2	0.162	41.94	0.25	10.77	52.96	65.34	-12.38	QP
1 2 3 4 5 6 7 8 9	0.206	41.15	0.25	10.76	52.16	63.36	-11.20	QP
4	0.249	29.55	0.26	10.75	40.56	51.78	-11.22	Average
5	0.262	40.39	0.26	10.75	51.40	61.38	-9.98	QP
6	0.481	28.45	0.28	10.75	39.48	46.32	-6.84	Average
7	0.502	30.45	0.29	10.76	41.50	46.00	-4.50	Average
8	0.549	41.85	0.26	10.77	52.88	56.00	-3.12	QP
9	0.549	33.77	0.26	10.77	44.80	46.00	-1.20	Average
10	0.570	42.36	0.25	10.77	53.38	56.00	-2.62	QP
11	1.060	40.63	0.23	10.88	51.74	56.00	-4.26	QP
12	1.060	25.61	0.23	10.88	36.72	46.00	-9.28	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 C63.10:2009 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:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Non-hopping mode		
Test results:	Pass		

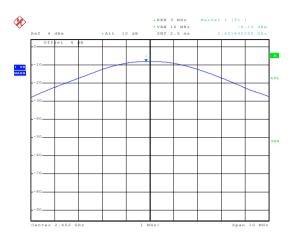
Measurement Data

	GFSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-8.15	21.00	Pass			
Middle	-7.75	21.00	Pass			
Highest	-7.93	21.00	Pass			
	π/4-DQPSK	mode				
Test channel	Test channel Peak Output Power (dBm)		Result			
Lowest	-6.59	21.00	Pass			
Middle	Middle -6.07		Pass			
Highest	Highest -6.22		Pass			
	8DPSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-6.07	21.00	Pass			
Middle	-6.01	21.00	Pass			
Highest	-6.10	21.00	Pass			



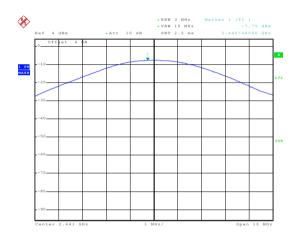
Test plot as follows:

Modulation mode: GFSK



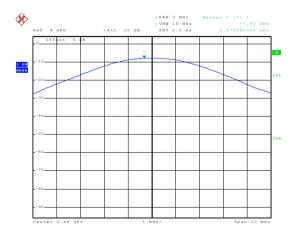
Date: 30.DEC.2015 09:15:44

Lowest channel



Date: 30.DEC.2015 09:16:47

Middle channel

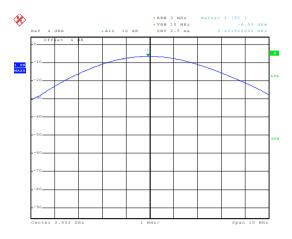


Date: 30.DEC.2015 09:20:54

Highest channel

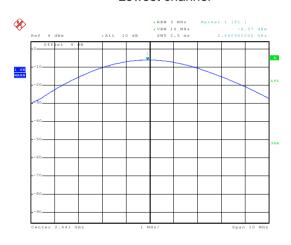


Modulation mode: π/4-DQPSK



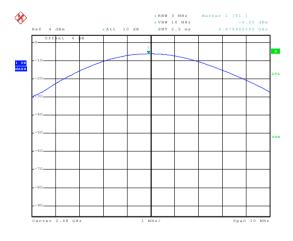
Date: 30.DEC.2015 10:20:53

Lowest channel



Date: 30.DEC.2015 10:21:52

Middle channel

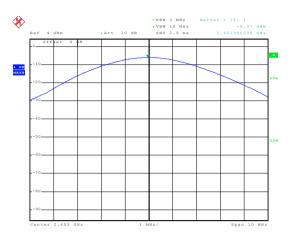


Date: 30.DEC.2015 10:23:28

Highest channel

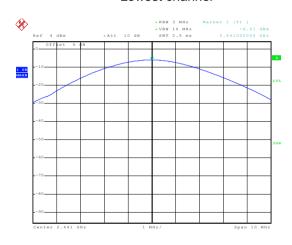


Modulation mode: 8DPSK



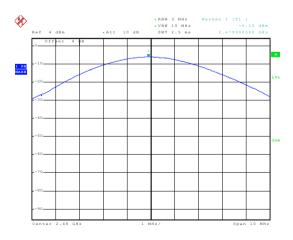
Date: 30.DEC.2015 15:48:18

Lowest channel



Date: 30.DEC.2015 15:49:00

Middle channel



Date: 30.DEC.2015 15:49:41

Highest channel



6.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2009 and DA00-705		
Receiver setup:	RBW=30 kHz, VBW=100 kHz, detector=Peak		
Limit:	NA		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Non-hopping mode		
Test results:	Pass		

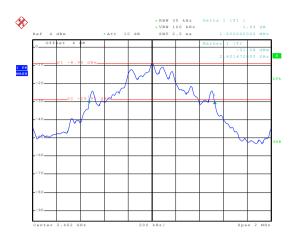
Measurement Data

Test channel	20dB Occupy Bandwidth (kHz)			
rest channel	GFSK	π/4-DQPSK	8DPSK	
Lowest	1056	1340	1332	
Middle	1056	1340	1376	
Highest	1056	1348	1304	

Test plot as follows:

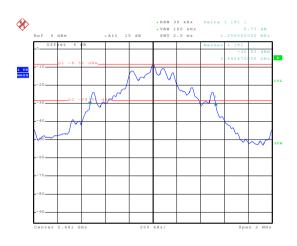


Modulation mode: GFSK



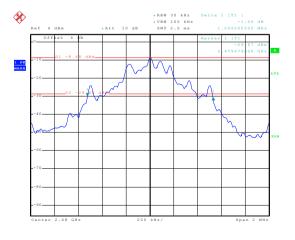
Date: 30.DEC.2015 09:14:35

Lowest channel



Date: 30.DEC.2015 09:18:10

Middle channel

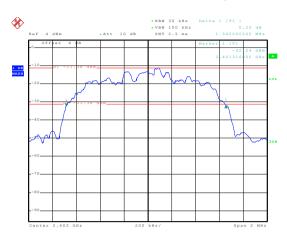


Date: 30.DEC.2015 09:19:53

Highest channel

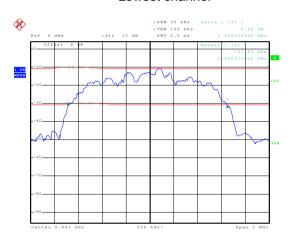


Modulation mode: π/4-DQPSK



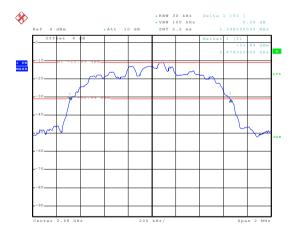
Date: 30.DEC.2015 10:30:36

Lowest channel



Date: 30.DEC.2015 10:29:19

Middle channel

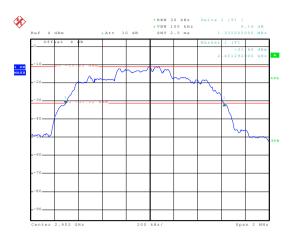


Date: 30.DEC.2015 10:24:58

Highest channel

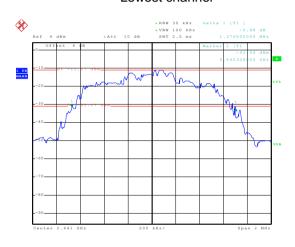


Modulation mode: 8DPSK



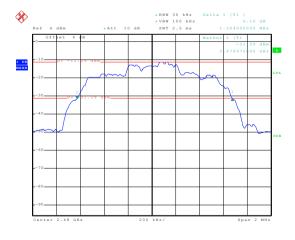
Date: 30.DEC.2015 15:56:40

Lowest channel



Date: 30.DEC.2015 15:55:16

Middle channel



Date: 30.DEC.2015 15:52:43

Highest channel





6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2009 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:	Spectrum Analyzer Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Hopping mode		
Test results:	Pass		

Measurement Data





GFSK mode				
Test channel	Test channel Carrier Frequencies Separation (kHz)		Result	
Lowest	1004	704.00	Pass	
Middle	1004	704.00	Pass	
Highest	1004	704.00	Pass	
	π/4-DQPSK mo	de		
Test channel	Test channel Carrier Frequencies Separation (kHz)		Result	
Lowest	1004	898.67	Pass	
Middle	1004	898.67	Pass	
Highest	1020	898.67	Pass	
	8DPSK mode			
Test channel Carrier Frequencies Separation (kHz)		Limit (kHz)	Result	
Lowest	Lowest 1004		Pass	
Middle	1000	917.33	Pass	
Highest 1000		917.33	Pass	

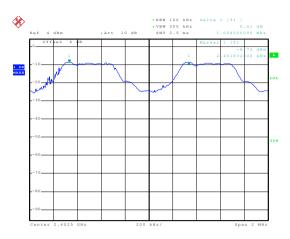
Note: According to section 6.4

Note: According to section 6.4				
Mode	20dB bandwidth (kHz)	Limit (kHz)		
Mode	(worse case)	(Carrier Frequencies Separation)		
GFSK	1056	704.00		
π/4-DQPSK	1348	898.67		
8DPSK	1376	917.33		

Test plot as follows:

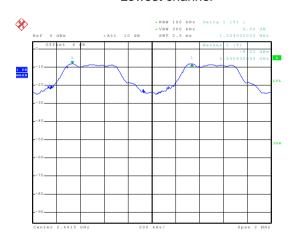


Modulation mode: GFSK



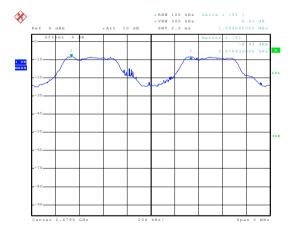
Date: 30.DEC.2015 09:39:43

Lowest channel



Date: 30.DEC.2015 09:37:20

Middle channel

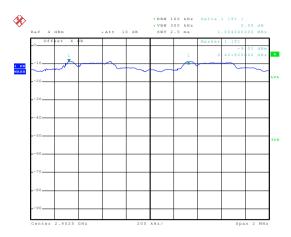


Date: 30.DEC.2015 09:33:41

Highest channel

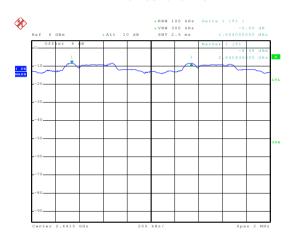


Modulation mode: π/4-DQPSK



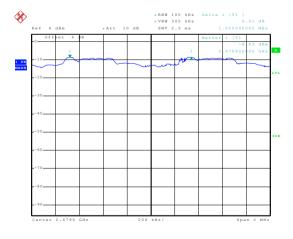
Date: 30.DEC.2015 10:49:25

Lowest channel



Date: 30.DEC.2015 10:43:36

Middle channel

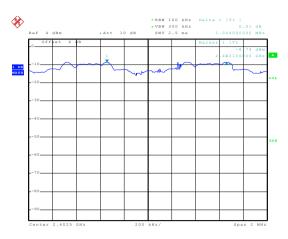


Date: 30.DEC.2015 10:36:15

Highest channel

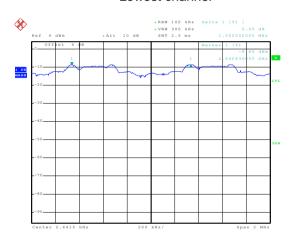


Modulation mode: 8DPSK



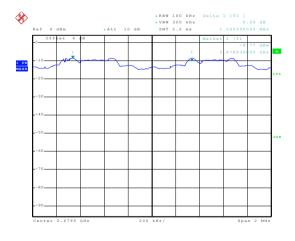
Date: 30.DEC.2015 15:58:24

Lowest channel



Date: 30.DEC.2015 15:59:30

Middle channel



Date: 30.DEC.2015 16:00:48

Highest channel



6.6 Hopping Channel Number

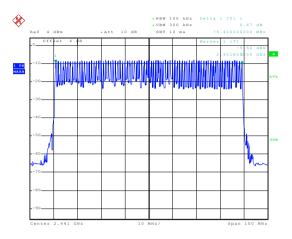
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2009 and DA00-705		
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak		
Limit:	15 channels		
Test setup:	Spectrum Analyzer Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Hopping mode		
Test results: Pass			

Measurement Data:

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

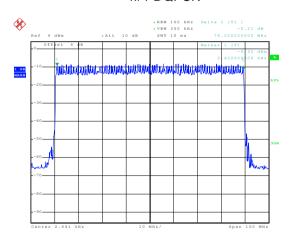


GFSK



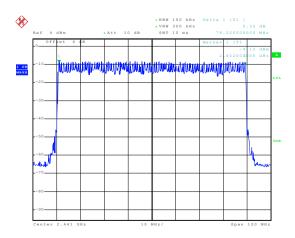
Date: 30.DEC.2015 09:43:35

π/4-DQPSK



Date: 30.DEC.2015 10:52:34

8DPSK



Date: 30.DEC.2015 16:04:23



6.7 Dwell Time

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2009 and KDB DA00-705		
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak		
Limit:	0.4 Second		
Test setup:	Spectrum Analyzer E.U.T		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Hopping mode		
Test results:	Pass		

Measurement Data (Worse case)

Mode	Packet	Dwell time (second)	Limit (second)	Result
	DH1	0.13056		
GFSK	DH3	0.27072	0.4	Pass
	DH5	0.31317		
π/4-DQPSK	2-DH1	0.13184	0.4	Pass
	2-DH3	0.26880		
	2-DH5	0.31573		
	3-DH1	0.12992		
8DPSK	3-DH3	0.26752	0.4	Pass
	3-DH5	0.31403		

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

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

DH1 time slot=0.408*(1600/(2*79))*31.6=130.56ms DH3 time slot=1.692*(1600/(4*79))*31.6=270.72ms DH5 time slot=2.936*(1600/(6*79))*31.6=313.17ms

2-DH1 time slot=0.412*(1600/(2*79))*31.6=131.84ms

2-DH3 time slot=1.680*(1600/ (4*79))*31.6=268.80ms

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

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

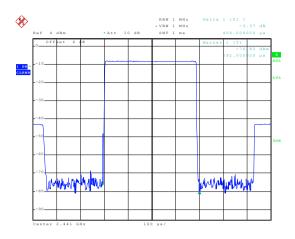
3-DH3 time slot=1.672*(1600/ (4*79))*31.6=267.52ms

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



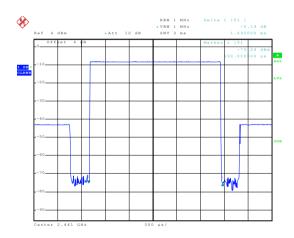
Test plot as follows:

Modulation mode: GFSK



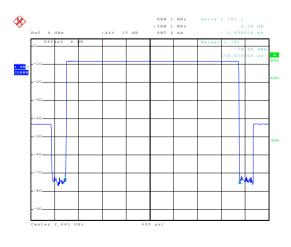
Date: 30.DEC.2015 09:48:52

DH1



Date: 30.DEC.2015 09:50:09

DH3

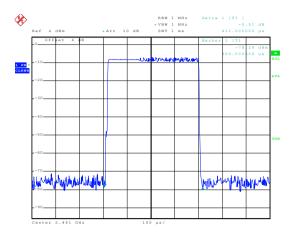


Date: 30.DEC.2015 09:51:17

DH5

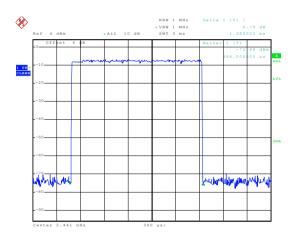


Modulation mode: π/4-DQPSK



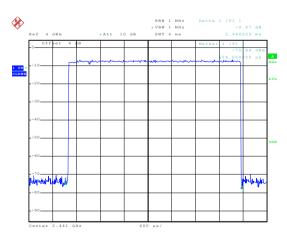
Date: 30.DEC.2015 10:53:53

2-DH1



Date: 30.DEC.2015 10:54:55

2-DH3

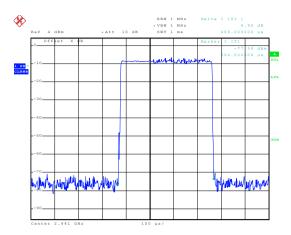


Date: 30.DEC.2015 10:56:03

2-DH5

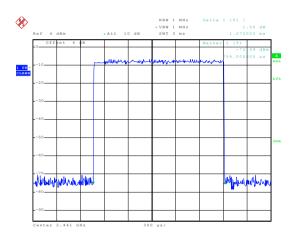


Modulation mode: 8DPSK



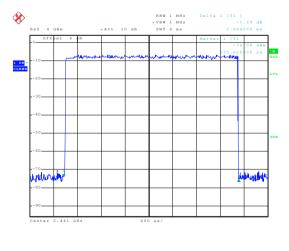
Date: 30.DEC.2015 16:08:00

3-DH1



Date: 30.DEC.2015 16:09:22

3-DH3



Date: 30.DEC.2015 16:10:29

3-DH5

Report No: CCIS15120095702

6.8 Pseudorandom Frequency Hopping Sequence

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

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

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

EUT Pseudorandom Frequency Hopping Sequence

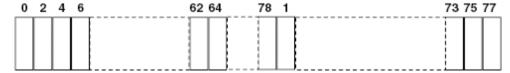
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2⁹-1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

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





6.9 Band Edge

6.9.1 Conducted Emission Method

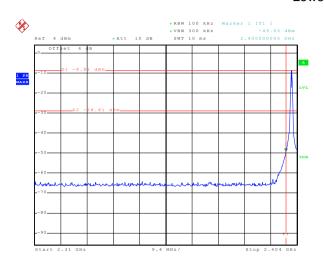
Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2009 and DA00-705
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that 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:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode and hopping mode
Test results:	Pass

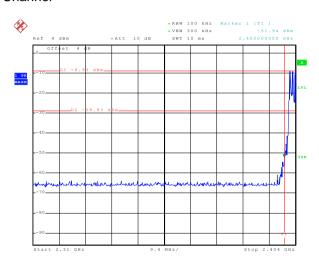
Test plot as follows:



GFSK

Lowest Channel





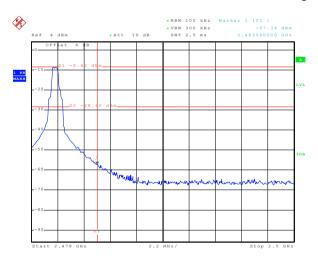
Date: 30.DEC.2015 09:55:10

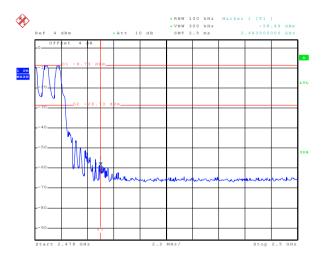
No-hopping mode

Date: 30.DEC.2015 09:57:13

Hopping mode

Highest Channel





Date: 30.DEC.2015 10:02:00

No-hopping mode

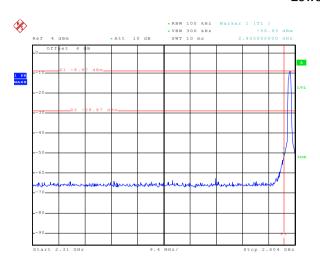
Date: 30.DEC.2015 10:00:34

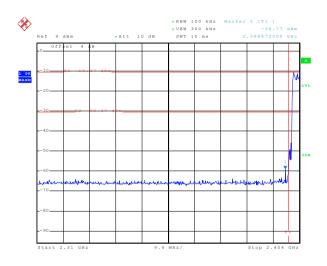
Hopping mode



$\pi/4$ -DQPSK

Lowest Channel





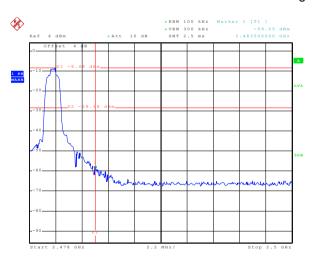
Date: 30.DEC.2015 10:58:14

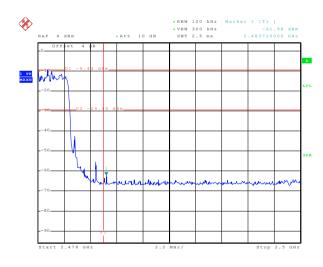
No-hopping mode

Date: 30.DEC.2015 10:59:49

Hopping mode

Highest Channel





Date: 30.DEC.2015 11:03:38

No-hopping mode

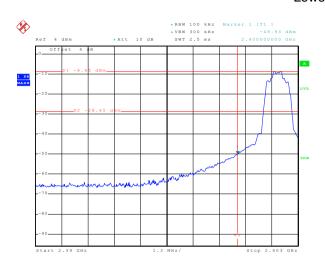
Date: 30.DEC.2015 11:01:29

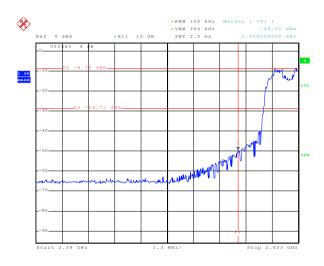
Hopping mode



8DPSK

Lowest Channel





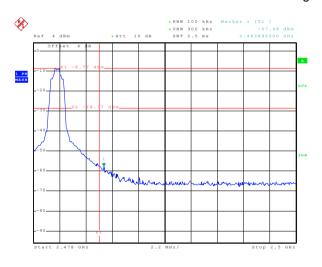
Date: 30.DEC.2015 16:14:42

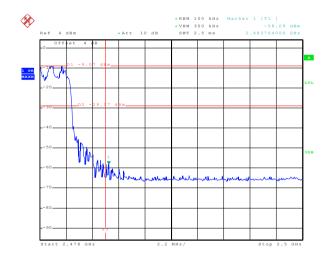
No-hopping mode

Date: 30.DEC.2015 16:20:50

Hopping mode

Highest Channel





Date: 30.DEC.2015 16:39:34

No-hopping mode

Date: 30.DEC.2015 16:38:26

Hopping mode



6.9.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.20	9 and 15.205		
Test Method:	ANSI C63.10: 2	009			
Test Frequency Range:	2.3GHz to 2.5G	Hz			
Test site:	Measurement D	istance: 3m			
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
I havin		RMS	1MHz Limit (dBuV/	3MHz	Average Value Remark
Limit:	Freque	-	54.0	,	Average Value
	Above 1	GHz	74.0		Peak Value
Test setup:	AE EUT (Turntable)	Ground Reference Plane Test Receiver	Controller	Swwww.	
Test Procedure:	ground at a 3 determine the 2. The EUT was antenna, whi tower. 3. The antenna ground to derhorizontal an measurement 4. For each sus and then the and the rotal maximum reasonation of the emission of the em	a meter cambe e position of the position of the set 3 meters che was mount height is varietermine the modern was antenna was table was turneding. Server system with the position of the difference of the differe	er. The table was set to Pead Aximum Hole EUT in peak tested one by the highest race.	was rotated diation. The interference of a variable of the field one antennal was arrange of the form 1 regrees to 360 at Detect Fund Mode. The mode was apped and the missions the one using pressions of the state	r meters above the distrength. Both are set to make the ed to its worst case meter to 4 meters distrength degrees to find the function and fold lower than the five peak values of the first did not have beak, quasi-peak or
Test Instruments:	Refer to section	-			
Test mode:	Non-hopping me	ode			
Test results:	Passed				

Remark:

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

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

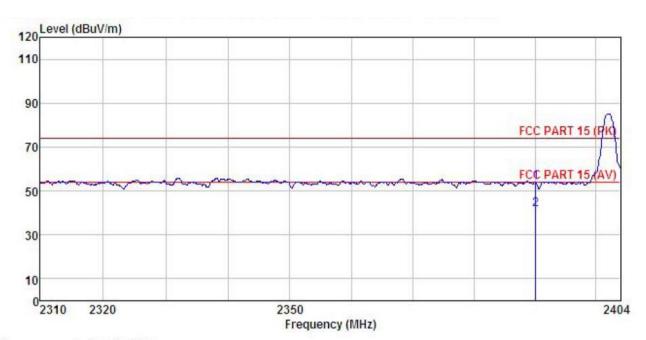




GFSK mode

Test channel: Lowest

Horizontal:



Site

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

EUT : Mobile Phone

: C100 Model

: BT-DH1-L Mode Test mode

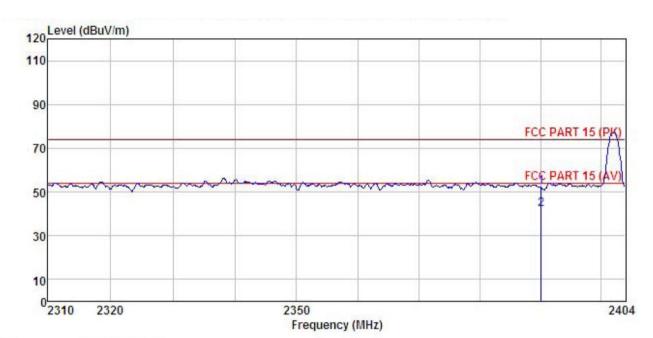
Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Zora REMARK :

cmar.									
	Freq		Antenna Factor					Over Limit	Remark
	MHz	dBu∜	<u>dB</u> /m	<u>d</u> B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	2390.000								
2	2390.000	7.23	27.58	6.63	0.00	41.44	54.00	-12.56	Average







Site

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

EUT : Mobile Phone

: C100
Test mode : BT-DH1-L Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Zora
REMARK :

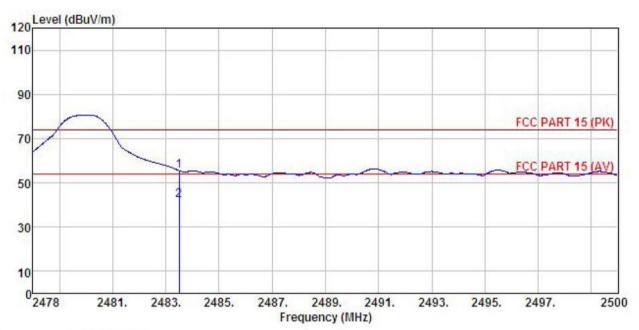
		Antenna Factor						
MHz	dBu∀	dB/m	<u>dB</u>	<u>dB</u>	dBu√/m	dBu√/m	<u>dB</u>	
2390.000 2390.000								





Test channel: Highest

Horizontal:



Site : 3m chamber

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

EUT : Mobile Phone

Model C100

: BT-DH1-H Mode Test mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

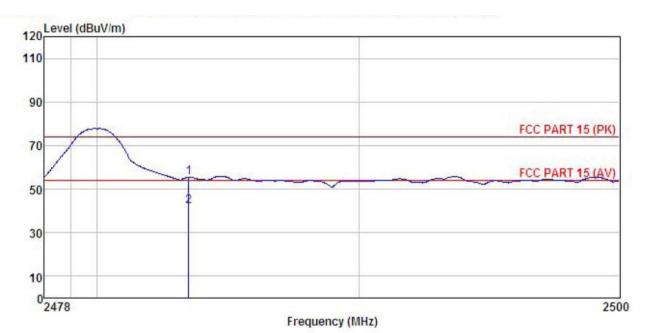
Test Engineer: Zora

REMARK

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







Site

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

Model : Mobile Phone

Model : C100
Test mode : BT-DH1-H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora
REMARK :

шии	5) 1050 10650		Ant enna						
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBu∜	$\overline{dB/m}$	dB	dB	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
	2483.500 2483.500								

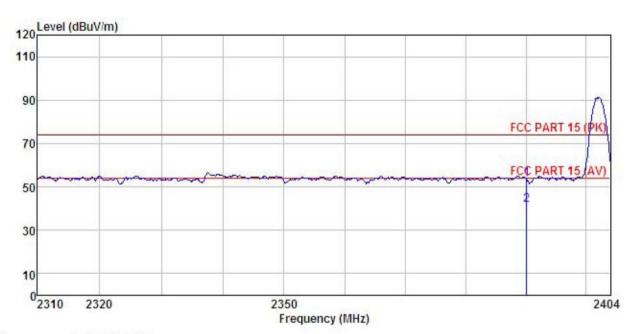




π/4-DQPSK mode

Test channel: Lowest

Horizontal:



Site

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

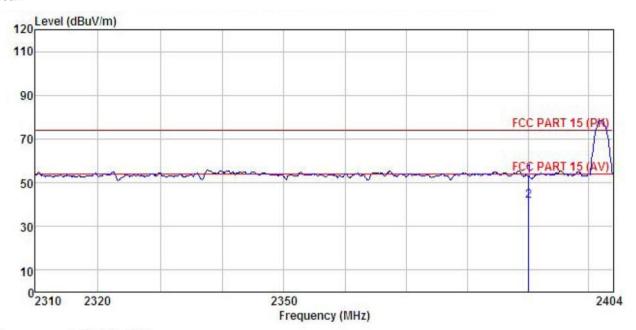
: Mobile Phone EUT Model : C100 Test mode : BT-2DH1-L Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora

REMARK

		Read	Ant enna	Cable	Preamp		Limit	Over		
	Freq		Factor						Remark	
	MHz	dBu₹	<u>dB</u> /m	<u>dB</u>	dB	dBu√/m	dBu√/m	<u>dB</u>		
1	2390.000	19.52	27.58	6.63	0.00	53.73	74.00	-20.27	Peak	
2	2390,000	7.21	27.58	6.63	0.00	41.42	54.00	-12.58	Average	







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

EUT

: C100
Test mode : BT-2DH1-L Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora
REMARK :

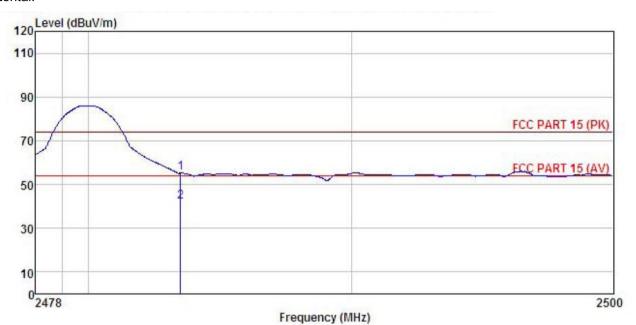
התחור		0.2200.000.000	2				02000 00000	100000000000000000000000000000000000000	
	Freq		Antenna Factor						
	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	19.04	27.58	6.63	0.00	53.25	74.00	-20.75	Peak
2	2390.000	7.24	27.58	6.63	0.00	41.45	54.00	-12.55	Average





Test channel: Highest

Horizontal:



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

EUT

Model : C100

Test mode : BT-2DH1-H Mode Power Rating : AC 120V/60Hz

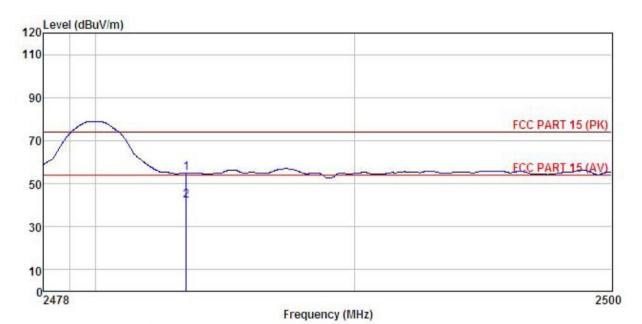
Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora REMARK :

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







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

EUT : Mobile Phone

: C100
Test mode : BT-2DH1-H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora
REMARK :

MAR	K :	Read	Antenna	Cable	Preamn		Limit	Over	
	Freq		Factor						
	MHz	dBu₹	dB/m	<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	dB	
1	2483.500	20.71	27.52	6.85	0.00	55.08	74.00	-18.92	Peak
2	2483 500	7.53	27 52	6 85	0.00	41 90	54 00	-12 10	Average

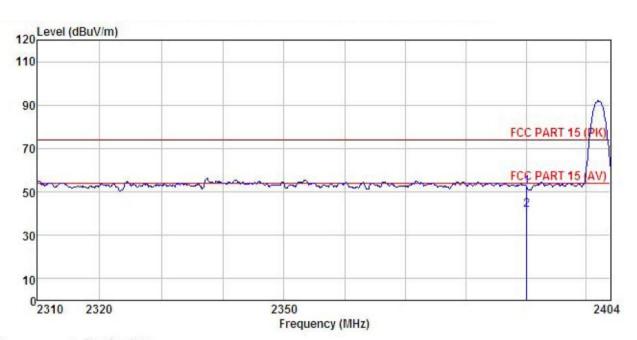




8DPSK mode

Test channel: Lowest

Horizontal:



Site

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

EUT

: C100 Model

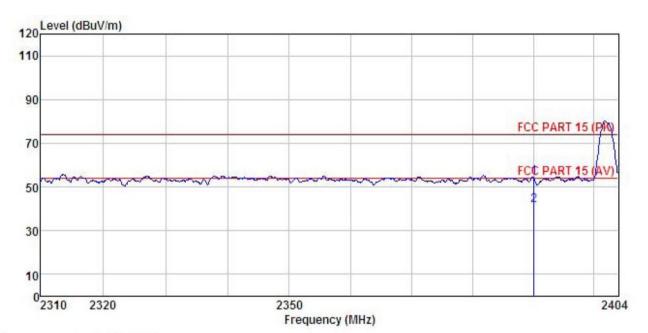
Test mode : BT-3DH1-L Mode Power Rating : AC 120V/60Hz Environment : Temp:25.5 C Huni:55%

Test Engineer: Zora REMARK :

EMAR	v :	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq		Factor						
	MHz	dBu∜	-dB/m	<u>dB</u>	dB	dBuV/m	dBuV/m	dB	
1 2	2390.000	18.25			0.00				Peak Average







Site

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

EUT

: C100
Test mode : BT-3DH1-L Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5 C Huni:55%
Test Engineer: Zora
REMARK

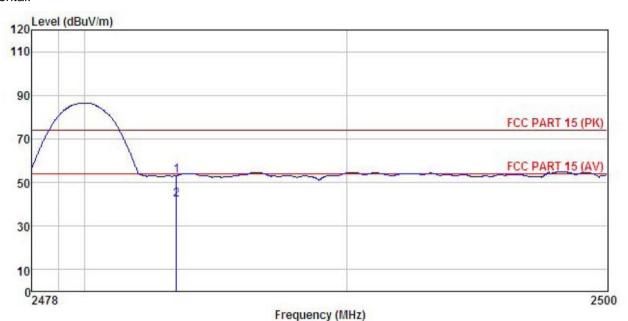
MAK	ık :	D 1		C 1.1	ъ		* * * * * * * * * * * * * * * * * * * *	^		
	Freq		Antenna Factor					Over Limit		
	MHz	dBuV	<u>dB</u> /m	d <u>B</u>	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>		-
1	2390.000	20.19	27.58	6.63	0.00	54.40	74.00	-19.60	Peak	
2	2390.000	7.23	27.58	6.63	0.00	41.44	54.00	-12.56	Average	





Test channel: Highest

Horizontal:



Site

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

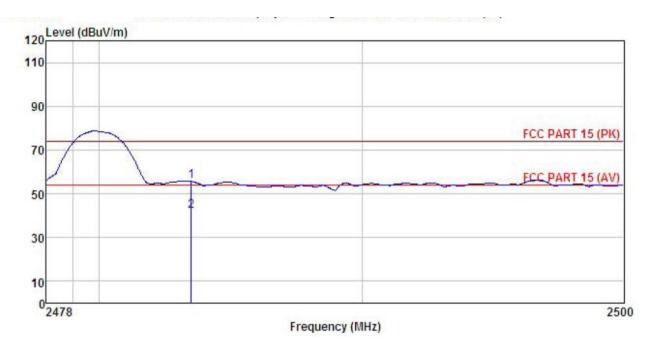
EUT : Mobile Phone

: C100
Test mode : BT-3DH1-H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora
REMARK :

шлицч			Antenna Factor						
-	MHz	dBu∜	<u>dB</u> /m	dB	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	-
1 2	2483.500 2483.500								







Site

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

EUT

: C100 Model

Test mode : BT-3DH1-H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: Zora REMARK :

Juna		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq		Factor						Remark	
2	MHz	dBu₹	-dB/m	dB	dB	$\overline{dBuV/m}$	$\overline{dBuV/m}$	dB		
	2483.500									
2	2483.500	7.82	27.52	6.85	0.00	42.19	54.00	-11.81	Average	



6.10 Spurious Emission

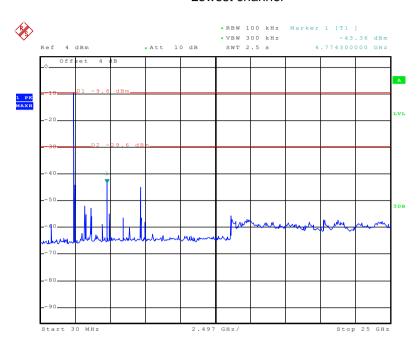
6.10.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)							
Test Method:	ANSI C63.10:2009 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:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 5.7 for details							
Test mode:	Non-hopping mode							
Test results:	Pass							



GFSK

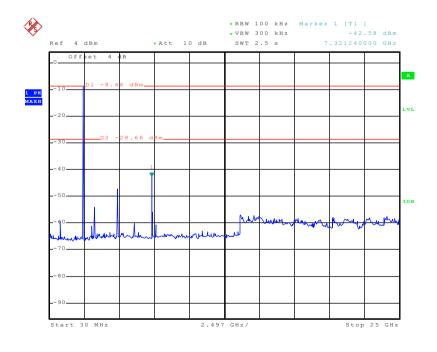
Lowest channel



Date: 5.JAN.2016 20:40:02

30MHz~25GHz

Middle channel

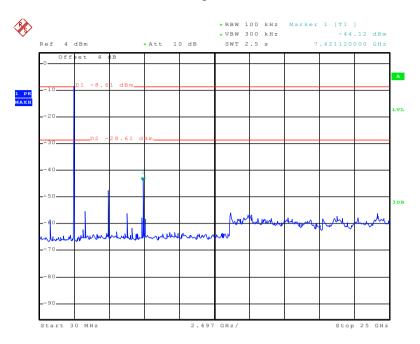


Date: 30.DEC.2015 10:16:13

30MHz~25GHz



Highest channel



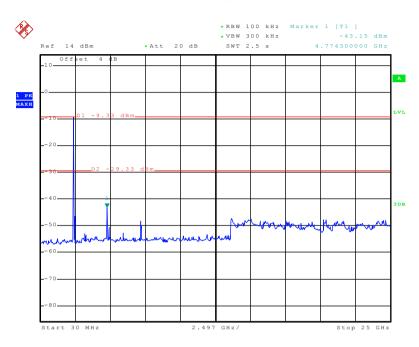
Date: 30.DEC.2015 10:03:32

30MHz~25GHz



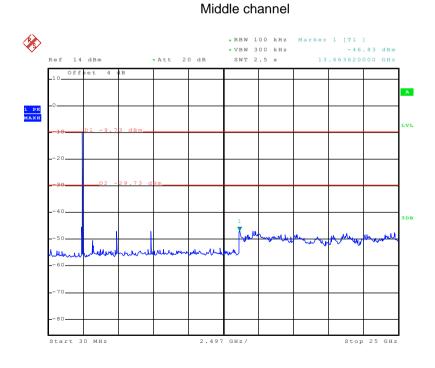
π/4-DQPSK

Lowest channel



Date: 30.DEC.2015 11:08:31

30MHz~25GHz

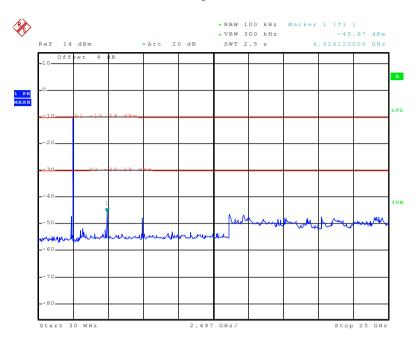


Date: 30.DEC.2015 11:11:14

30MHz~25GHz



Highest channel



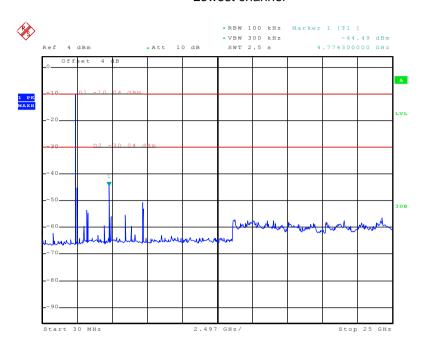
Date: 30.DEC.2015 11:06:42

30MHz~25GHz



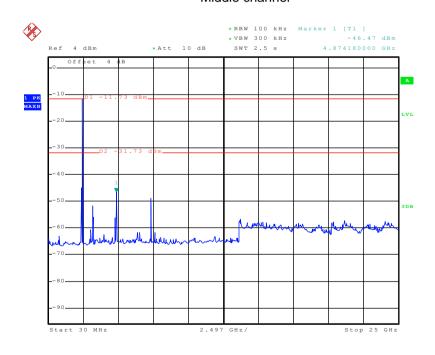
8DPSK

Lowest channel



Date: 30.DEC.2015 16:44:33

30MHz~25GHz Middle channel

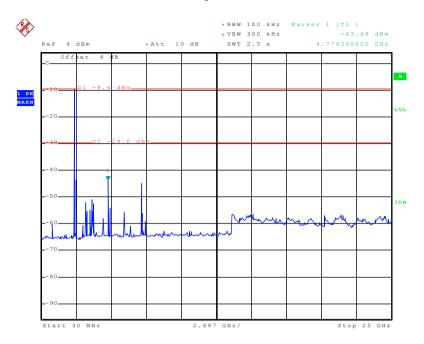


Date: 30.DEC.2015 16:42:55

30MHz~25GHz



Highest channel



Date: 5.JAN.2016 20:45:51

30MHz~25GHz





6.10.2 Radiated Emission Method

0.10.2 Radiated Lillission Me	0.2 Radiated Emission Method								
Test Requirement:	FCC Part 15 C Section 15.209								
Test Method:	ANSI C63.10: 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				
	710070 10112	RMS	1MHz	3MHz	Average Value				
Limit:	Frequen	су	Limit (dBuV/	m @3m)	Remark				
	30MHz-88I	MHz	40.0)	Quasi-peak Value				
	88MHz-216	6MHz	43.5	5	Quasi-peak Value				
	216MHz-960	OMHz	46.0)	Quasi-peak Value				
	960MHz-1	GHz	54.0)	Quasi-peak Value				
	Above 1G	iHz –	54.0		Average Value				
	7		74.0)	Peak Value				
Test setup:	Turn Table 0.8 Ground Plane — Above 1GHz	EUT 3m	ference Plane	Antenna Sear Ante					





Test Procedure:	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.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Uncertainty:	±4.88 dB
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.

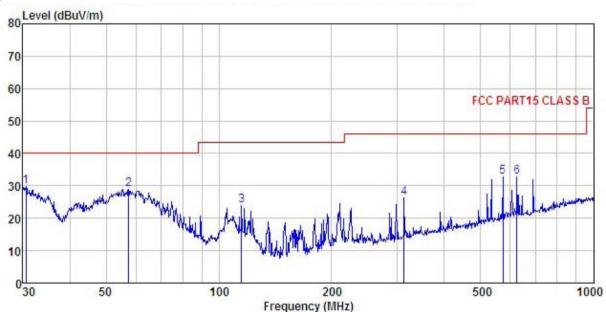




Measurement data:

Below 1GHz

Vertical:



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

EUT Model : C100 Test mode : BT Mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

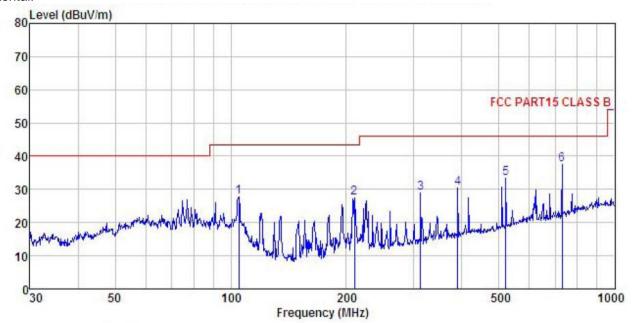
Test Engineer: Zora REMARK :

munut	•								
		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBu₹	-dB/m	₫B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	30.531	47.05	12.33	0.44	29.98	29.84	40.00	-10.16	QP
2	57.392	45.18	12.87	0.67	29.79	28.93	40.00	-11.07	QP
3	114.917	40.84	11.31	1.08	29.42	23.81	43.50	-19.69	QP
4	312.179	39.74	13.22	1.81	28.48	26.29	46.00	-19.71	QP
1 2 3 4 5	572.614	41.18	17.98	2.58	29.03	32.71	46.00	-13.29	QP
6	625.078	40.32	18.54	2.71	28.86	32.71	46.00	-13.29	QP





Horizontal:



Site

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

: Mobile Phone

Model : C100

Test mode : BT Mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Humi:55%

Test Engineer: Zora

REMARK :

EMARK	:		V	01 <u>2</u> 1120221				-	
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u> /m	₫B	<u>dB</u>	dBu√/m	dBu√/m	<u>dB</u>	
1	104.903	43.61	12.68	1.00	29.49	27.80	43.50	-15.70	QP
2	210.048	43.88	10.87	1.43	28.77	27.41	43.50	-16.09	QP
2	312.179	42.34	13.22	1.81	28.48	28.89	46.00	-17.11	QP
4	390.723	42.18	14.87	2.09	28.74	30.40	46.00	-15.60	QP
5	520.888	42.79	17.00	2.46	29.01	33.24	46.00	-12.76	QP
6	729.358	43.75	19.19	2.99	28.56	37.37	46.00	-8.63	QP



Above 1GHz:

Te	st channel:		Lowest		Le	vel:	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	48.73	31.53	10.57	40.24	50.59	74.00	-23.41	Vertical
4804	51.03	31.53	10.57	40.24	52.89	74.00	-21.11	Horizontal
Te	st 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	41.86	31.53	10.57	40.24	43.72	54	-10.28	Vertical
4804.00	43.33	31.53	10.57	40.24	45.19	54	-8.81	Horizontal

Te	st channel:		Middle		Le	vel:	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	47.98	31.58	10.66	40.15	50.07	74.00	-23.93	Vertical
4882.00	51.68	31.58	10.66	40.15	53.77	74.00	-20.23	Horizontal
Te	st channel:	•	Middle		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	40.33	31.58	10.66	40.15	42.42	54.00	-11.58	Vertical
4882.00	41.73	31.58	10.66	40.15	43.82	54.00	-10.18	Horizontal

Te	st channel:		Highest		Le	vel:	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	46.56	31.69	10.73	40.03	48.95	74.00	-25.05	Vertical
4960.00	48.23	31.69	10.73	40.03	50.62	74.00	-23.38	Horizontal
Te	st 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	40.25	31.69	10.73	40.03	42.64	54.00	-11.36	Vertical
4960.00	41.17	31.69	10.73	40.03	43.56	54.00	-10.44	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.