

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE170907202

FCC REPORT

(Bluetooth)

Applicant: NEXUS TELECOM SERVICES (HK) LIMITED

Address of Applicant: R112, 11/F Hollywood Plaza, Mangkok, Kowloon, Hong Kong

Equipment Under Test (EUT)

Product Name: LTE SMART PHONE

Model No.: GO Onyx LTE,GO1004

Trade mark: GOMOBILE

FCC ID: 2AHDFGOONYXLTE

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

Date of sample receipt: 01 Jul., 2017

Date of Test: 01 Jul., to 14 Nov., 2017

Date of report issued: 14 Nov., 2017

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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Report No: CCISE170907202

2 Version

Version No.	Date	Description
00	14 Nov., 2017	Original

Tested by: Zora Lee Date: 14 Nov., 2017

Test Engineer

Reviewed by: Date: 14 Nov., 2017

Project Engineer





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4 Test Summary

Test Items	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			
Spurious Emission	15.205/15.209	Pass			
Band Edge	15.247(d)	Pass			
Pass: The EUT complies with the essential requirements in the standard.					





5 General Information

5.1 Client Information

Applicant:	NEXUS TELECOM SERVICES (HK) LIMITED
Address:	R112, 11/F Hollywood Plaza, Mangkok, Kowloon, Hong Kong
Manufacturer:	NEXUS TELECOM SERVICES (HK) LIMITED
Address:	R112, 11/F Hollywood Plaza, Mangkok, Kowloon, Hong Kong
Factory:	GUIZHOU FORTUNE SHIP INTELLIGENT TERMINAL INDUSTRIAL PARK
Address:	GUIZHOU FORTUNE SHIP , XINPU ECONOMIC DEVELOPMENT ZONE ,ZUNYI , GUIZHOU,CHINA

5.2 General Description of E.U.T.

Product Name:	LTE SMART PHONE
Model No.:	GO Onyx LTE,GO1004
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:	0.3 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2100mAh
AC adapter with two plugs:	Model: GO1004
	Input: AC100-240V 50/60Hz 0.2A
	Output: DC 5.0V, 1A
Remark:	Model No.: GO Onyx LTE,GO1004 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name for different areas





Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK Channel Frequency Channel Frequency Channel Frequency Channel Frequency								
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz	
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz	
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz	
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz	
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz	
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz	
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz	
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz	
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz	
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz	
19	2421MHz	39	2441MHz	59	2461MHz			

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5.3 Test environment and test mode

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

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working with a fresh battery, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty			
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)			
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)			
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)			
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)			
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)			

5.6 Laboratory Facility

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

FCC - Registration No.: 727551

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

• 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.

A2LA - Registration No.: 4346.01

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

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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5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

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

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

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

5.8 Test Instruments list

Radiated Emission:								
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)			
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020			
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	02-25-2017	02-24-2018			
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	02-25-2017	02-24-2018			
Horn Antenna	Horn Antenna SCHWARZBECK		916	02-25-2017	02-24-2018			
EMI Test Software	EMI Test Software AUDIX		E3 6.110919b		N/A			
Pre-amplifier	Pre-amplifier HP		8447D 2944A09358		02-24-2018			
Pre-amplifier	Pre-amplifier CD		PAP-1G18 11804		02-24-2018			
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	02-25-2017	02-24-2018			
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	02-25-2017	02-24-2018			
Cable	Cable ZDECL		1608458	02-25-2017	02-24-2018			
Cable	MICRO-COAX	MFR64639	K10742-5	02-25-2017	02-24-2018			
Cable	SUHNER	SUCOFLEX100	58193/4PE	02-25-2017	02-24-2018			

Conducted Emission:								
Test Equipment	Manufacturer	Model No. Serial No.		Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)			
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	02-25-2017	02-24-2018			
Pulse Limiter	Pulse Limiter SCHWARZBECK		9731	02-25-2017	02-24-2018			
LISN	LISN CHASE		1447	02-25-2017	02-24-2018			
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2018			
Cable	HP	10503A	N/A	02-25-2017	02-24-2018			
EMI Test Software	AUDIX	E3	6.110919b	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:

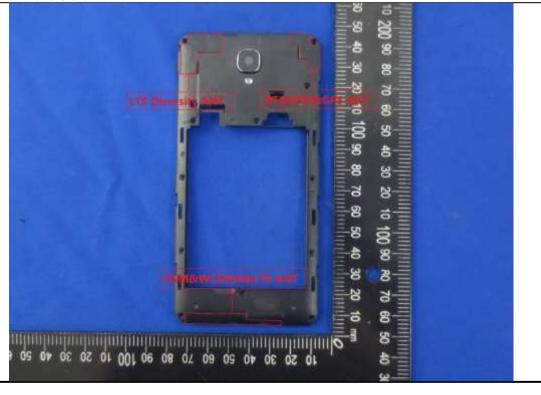
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 External antenna which permanently attached, and the best case gain of the antenna is 0.3 dBi.







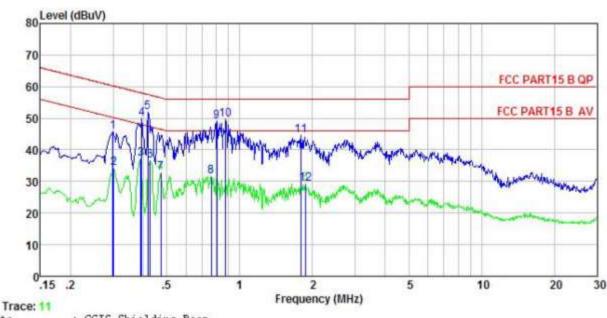
6.2 Conducted Emissions

Test Requirement:	FCC Part 15 C Section 1	5 207				
Test Method:	ANSI C63.4:2014					
Test Frequency Range:	150 kHz to 30 MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9 kHz, VBW=30 k	Hz, Sweep time=auto				
Limit:	Frequency range	Limit (dBuV)			
	(MHz)	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 log	arithm of the frequency.				
Test setup:	Reference	Plane				
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T Equipment Linder Test LISN Line Impedence Stabilization Network Test table height=0.8m					
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 					
Test Instruments:	Refer to section 5.8 for d					
Test mode:	Hopping mode					
Test results:	Pass					



Measurement Data:

Line:



Site : CCIS Shielding Room Condition : FCC PART15 B QP LISN LINE EUT : LTE SMART PHONE

Model : GO Onyx LTE Test Mode : BI mode Power Rating : AC 120/60Hz

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

Test Engineer: Zora

Remark :

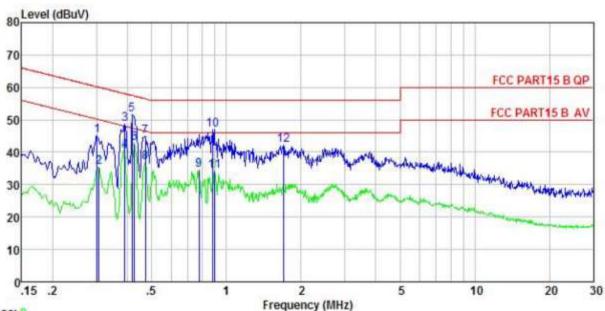
(emark		P	LICH	C-11-			A	
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
77	MHz	dBu∀	₫₿	dB	dBu₹	dBu∛	₫₿	
1	0.299	35.48	-0.51	10.74	45.71	60.28	-14.57	QP
2	0.302	24.08	-0.51	10.74	34.31	50.19	-15.88	Average
3	0.389	26.95	-0.50	10.72	37.17	48.08	-10.91	Average
4	0.393	39.81	-0.50	10.72	50.03	57.99	-7.96	QP
1 2 3 4 5 6 7 8 9	0.417	41.87	-0.50	10.73	52.10	57.51	-5.41	QP
6	0.426	26.27	-0.50	10.73	36.50	47.33	-10.83	Average
7	0.471	22.39	-0.49	10.75	32.65	46.49	-13.84	Average
8	0.763	21.35	-0.48	10.80	31.67	46.00	-14.33	Average
9	0.804	38.82	-0.48	10.81	49.15	56.00	-6.85	QP
10	0.876	39.20	-0.49	10.83	49.54	56.00	-6.46	QP
11	1.790	34.15	-0.44	10.95	44.66	56.00	-11.34	QP
12	1.868	18.84	-0.44	10.95	29.35			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.



Neutral:



Trace: 9

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : LTE SMART PHONE Condition

EUT Model : GO Onyx LTE : BT mode Test Mode Power Rating : AC 120/60Hz

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

Test Engineer: Zora

Remark

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	d₿	dBuV	dBu∜	dB	
1	0.302	34.64	-0.32	10.74	45.06	60.19	-15.13	QP
2	0.307	24.92	-0.32	10.74	35.34	50.06	-14.72	Average
3	0.389	38.17	-0.32	10.72	48.57	58.08	-9.51	QP
1 2 3 4 5 6 7 8 9	0.389	30.06	-0.32	10.72	40.46	48.08	-7.62	Average
5	0.417	41.30	-0.32	10.73	51.71	57.51	-5.80	QP
6	0.426	32.31	-0.31	10.73	42.73	47.33	-4.60	Average
7	0.471	34.50	-0.31	10.75	44.94	56.49	-11.55	QP
8	0.471	26.43	-0.31	10.75	36.87	46.49	-9.62	Average
9	0.775	24.05	-0.30	10.80	34.55	46.00	-11.45	Average
10	0.880	36.45	-0.29	10.83	46.99	56.00	-9.01	QP
11	0.894	23.80	-0.29	10.84	34.35	46.00	-11.65	Average
12	1.698	31.40	-0.27	10.94	42.07	56,00	-13.93	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 Part 15 C Section 15.247 (b)(1)		
Test Method:	ANSI C63.10:2013 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 5.8 for details		
Test mode:	Non-hopping mode		
Test results:	Pass		

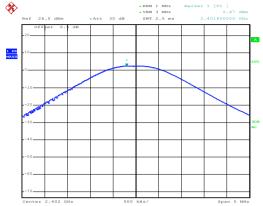
Measurement Data:

Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
	GFSK mode					
Lowest	2.47	30.00	Pass			
Middle	3.49	30.00	Pass			
Highest	-0.09	30.00	Pass			
	π/4-DQPSK mode					
Lowest	-0.42	21.00	Pass			
Middle	0.83	21.00	Pass			
Highest	-2.43	21.00	Pass			
	8DPSK mode					
Lowest	-0.48	21.00	Pass			
Middle	0.74	21.00	Pass			
Highest	-2.46	21.00	Pass			



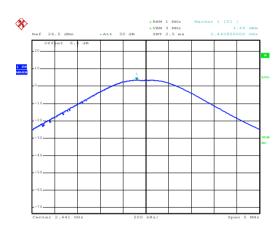
Test plot as follows:

Modulation mode: GFSK



Date: 1.NOV.2017 11:22:45

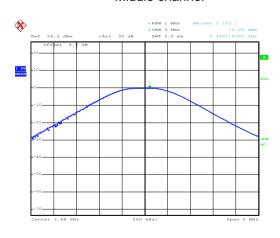
Lowest channel



Date: 1.NOV.2017 11:22:18

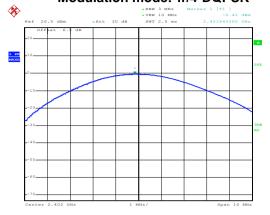
Date: 1.NOV.2017 11:23:16

Middle channel



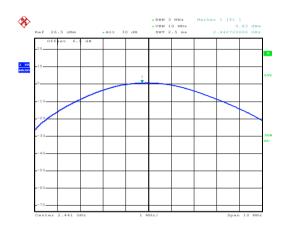
Highest channel

Modulation mode: π/4-DQPSK



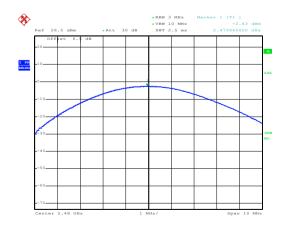
Date: 1.NOV.2017 11:25:21

Lowest channel



Date: 1.NOV.2017 11:24:50

Middle channel

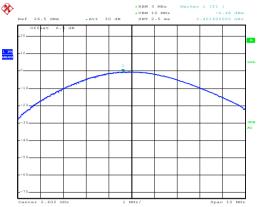


Date: 1.NOV.2017 11:24:07

Highest channel

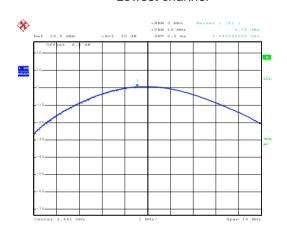






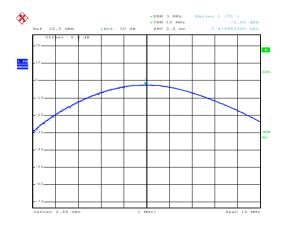
Date: 1.NOV.2017 11:25:55

Lowest channel



Date: 1.NOV.2017 11:26:19

Middle channel



Date: 1.NOV.2017 11:26:46

Highest channel



6.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 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 5.8 for details		
Test mode:	Non-hopping mode		
Test results:	Pass		

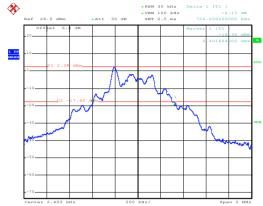
Measurement Data:

Test channel	20dB Occupy Bandwidth (kHz)			
	GFSK	π/4-DQPSK	8DPSK	
Lowest	724	1116	1172	
Middle	724	1116	1172	
Highest	724	1116	1172	



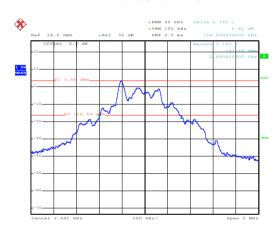
Test plot as follows:

Modulation mode: GFSK



Date: 3.NOV.2017 13:25:11

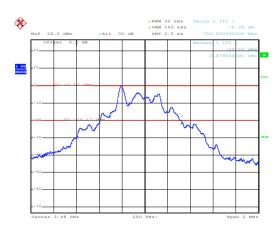
Lowest channel



Date: 3.NOV.2017 13:26:23

Date: 3.NOV.2017 13:27:45

Middle channel



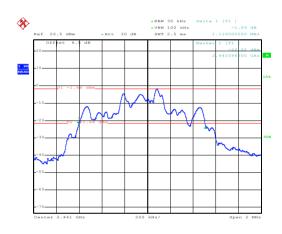
Highest channel

Modulation mode: π/4-DQPSK



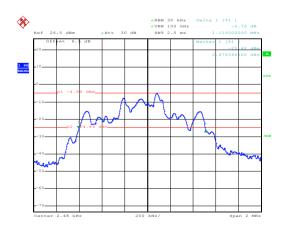
Date: 3.NOV.2017 13:28:54

Lowest channel



Date: 3.NOV.2017 13:29:54

Middle channel

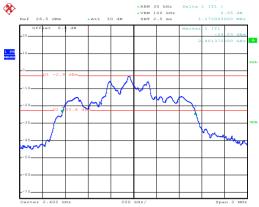


Date: 3.NOV.2017 13:30:51

Highest channel

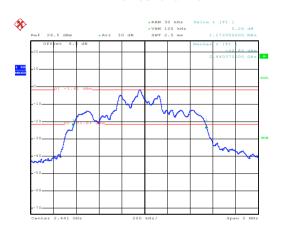






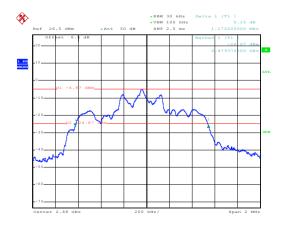
Date: 3.NOV.2017 13:32:06

Lowest channel



Date: 3.NOV.2017 13:32:58

Middle channel



Date: 3.NOV.2017 13:33:48

Highest channel





6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 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 5.8 for details		
Test mode:	Hopping mode		
Test results:	Pass		





Measurement Data:

Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result			
	GFSK					
Lowest	1004	724.0	Pass			
Middle	1004	724.0	Pass			
Highest	Highest 1004		Pass			
	π/4-DQPSK mode					
Lowest	1004	744.00	Pass			
Middle	Middle 1004		Pass			
Highest 1004		744.00	Pass			
	8DPSK mode					
Lowest 1004		781.33	Pass			
Middle	Middle 1008		Pass			
Highest 1004		781.33	Pass			

Note: According to section 6.4

Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	724	724.0
π/4-DQPSK	1116	744.00
8DPSK	1172	781.33



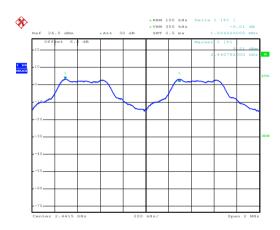
Test plot as follows:

Modulation mode: GFSK



Date: 3.NOV.2017 13:36:04

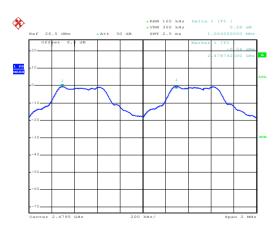
Lowest channel



Date: 3.NOV.2017 13:36:54

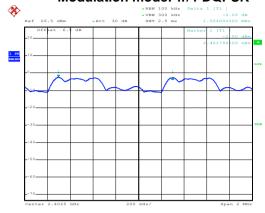
Date: 3.NOV.2017 13:38:22

Middle channel



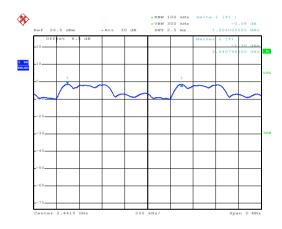
Highest channel

Modulation mode: π/4-DQPSK



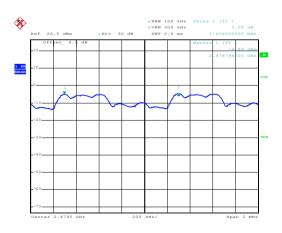
Date: 3.NOV.2017 13:41:52

Lowest channel



Date: 3.NOV.2017 13:43:17

Middle channel

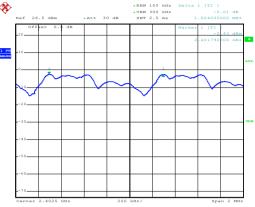


Date: 3.NOV.2017 13:44:10

Highest channel

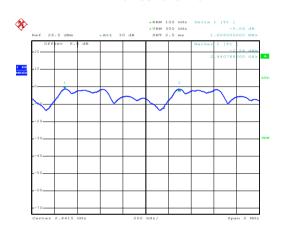






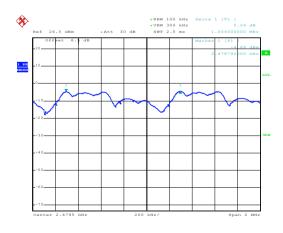
Date: 3.NOV.2017 13:45:19

Lowest channel



Date: 3.NOV.2017 13:46:32

Middle channel



Date: 3.NOV.2017 13:47:27

Highest channel



6.6 Hopping Channel Number

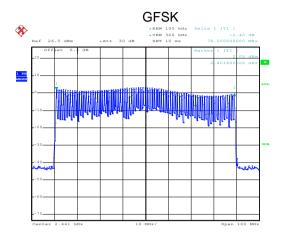
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 and DA00-705		
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak		
Limit:	15 channels		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Hopping mode		
Test results:	Pass		

Measurement Data:

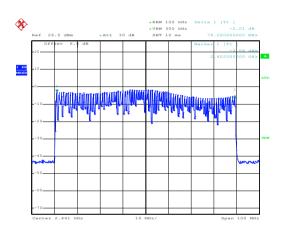
Mode	Hopping channel numbers	Limit	Result
GFSK, π/4-DQPSK, 8DPSK	79	15	Pass



Test plot as follows:

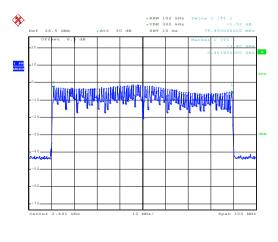


Date: 3.NOV.2017 13:50:24



Date: 3.NOV.2017 13:52:37

π/4-DQPSK



Date: 3.NOV.2017 13:55:13

8DPSK



6.7 Dwell Time

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 and KDB DA00-705		
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak		
Limit:	0.4 Second		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Hopping mode		
Test results:	Pass		

Measurement Data (Worse case):

Mode	Packet	Dwell time (second)	Limit (second)	Result
	DH1	0.14656		
GFSK	DH3	0.27648	0.4	Pass
	DH5	0.31829		
π/4-DQPSK	2-DH1	0.14464		
	2-DH3	0.27456	0.4	Pass
	2-DH5	0.31829		
	3-DH1	0.14464		
8DPSK	3-DH3	0.27456	0.4	Pass
	3-DH5	0.31744		

Note:

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

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

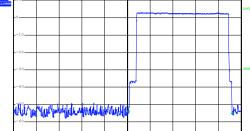
For example:

DH1 time slot=0.458*(1600/ (2*79)) * 31.6=146.56ms DH3 time slot=1.728*(1600/ (4*79)) * 31.6=276.48ms

DH5 time slot=2.984*(1600/ (6*79)) * 31.6=318.59ms

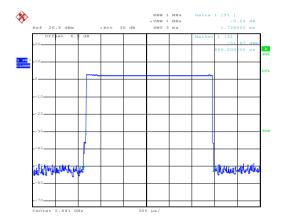


Test plot as follows:



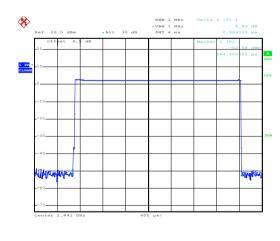
Date: 3.NOV.2017 14:19:10

DH1



Date: 3.NOV.2017 14:22:01

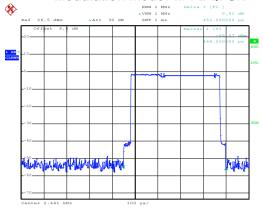
DH3



_

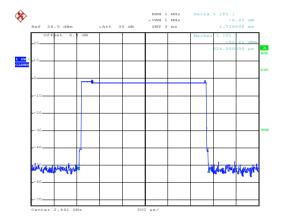
Date: 3.NOV.2017 14:25:21

Modulation mode: π/4-DQPSK



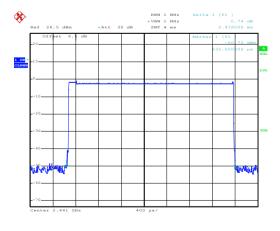
Date: 3.NOV.2017 14:20:24

2-DH1



Date: 3.NOV.2017 14:24:31

2-DH3

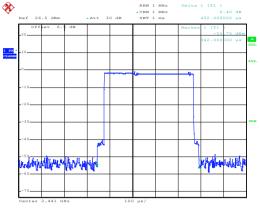


Date: 3.NOV.2017 14:26:16

DH5 2-DH5

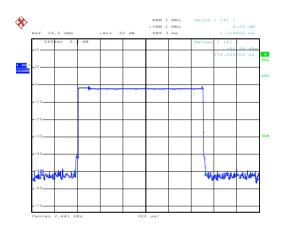






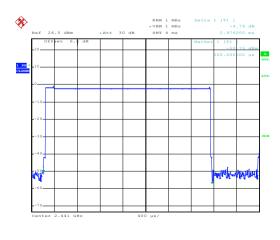
Date: 3.NOV.2017 14:21:01

3-DH1



Date: 3.NOV.2017 14:23:42

3-DH3



Date: 3.NOV.2017 14:26:52

3-DH5

Report No: CCISE170907202

6.8 Pseudorandom Frequency Hopping Sequence

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

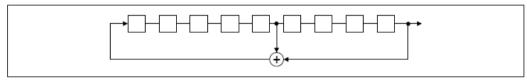
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

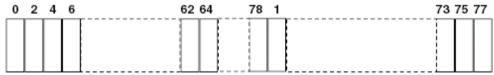
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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

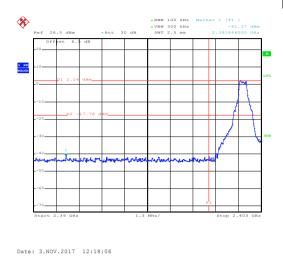
Test Requirement:	FCC Part 15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2013 and DA00-705						
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio 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 5.8 for details						
Test mode:	Non-hopping mode and hopping mode						
Test results:	Pass						

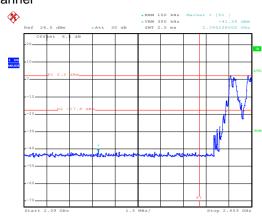


Test plot as follows:

GFSK

Lowest Channel

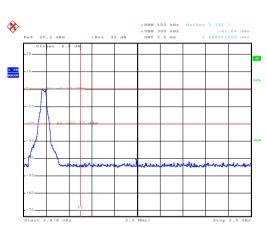




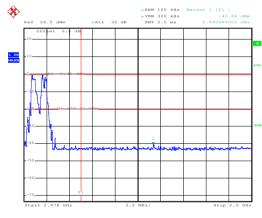
Date: 3.NOV.2017 12:16:44

No-hopping mode

Hopping mode



Highest Channel



Date: 3.NOV.2017 12:27:41

No-hopping mode

Date: 3.NOV.2017 12:28:52

Hopping mode

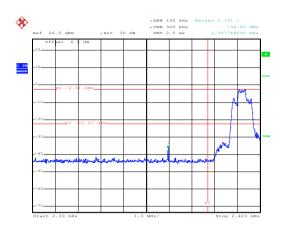


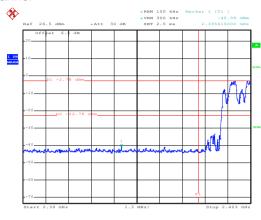
Date: 3.NOV.2017 12:07:31

Date: 3.NOV.2017 12:31:24

π/4-DQPSK

Lowest Channel





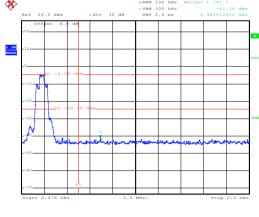
Date: 3.NOV.2017 12:11:15

Date: 3.NOV.2017 12:32:57

No-hopping mode

Hopping mode

#RHW 100 kHz Marker 1 [71] **VDN 300 kHz -41.19 dBm **Ref 26.5 dBm **Att 30 dB SW7 2.5 ms 2.48561200 GHz **PROF 26.5 dBm **Att 30 dB SW7 2.5 ms 2.48561200 GHz



No-hopping mode

Hopping mode

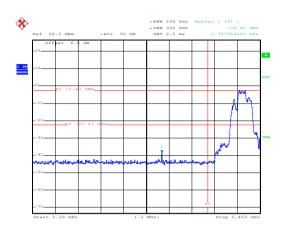


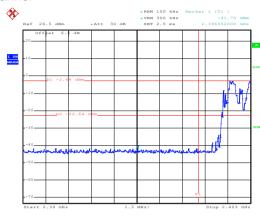
Date: 3.NOV.2017 12:12:05

Date: 3.NOV.2017 12:33:57

8DPSK

Lowest Channel



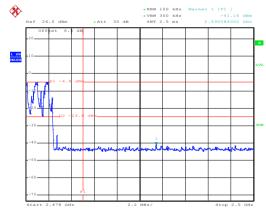


Date: 3.NOV.2017 12:13:49

No-hopping mode

Hopping mode

Highest Channel



Date: 3.NOV.2017 12:36:02

No-hopping mode

Hopping mode



6.9.2 Radiated Emission Method

Toot Poquirement:		Cootion 1	E 200	and 15 205				
Test Requirement:	FCC Part 15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013							
Test Frequency Range:	2.3GHz to 2.5GHz							
Test Distance:	3m							
Receiver setup:	Frequency	Detect		RBW	VBW		Remark	
	Above 1GHz	Peak		1MHz		ИHz	Peak Value	
	RMS 1MHz 3MHz Average V							
Limit:	Frequen	су	Lim	it (dBuV/m @3	3m)		Remark	
	Above 1G	SHz		54.00			verage Value	
Test setup:	Fa			74.00			Peak Value	
	Horn Antenna Tower Ground Reference Plane Test Receiver Test Receiver Controller							
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 							
Test Instruments:	Refer to section 5.8 for details							
Test mode:	Non-hopping mode							
Test results:	: Passed							

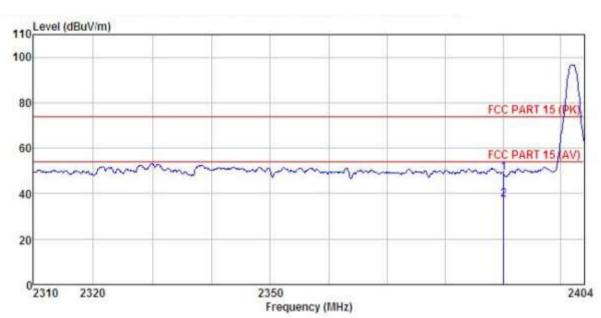




GFSK mode

Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : LTE SMART PHONE Condition

EUT . GO Onyx LTE

1est mode : DH1-L mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: Zora

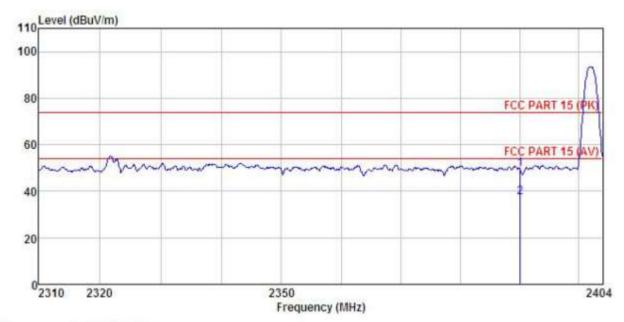
REMARK :

and and		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq								Remark
	MHz	dBu₹	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2	2390.000 2390.000					49.30 37.51			





Vertical:



Site

: 3m chamber : FCC PARI 15 (PK) 3m BBHA9120(1G18G) VERTICAL : LTE SMART PHONE Condition

EUT : GO Onyx LTE Model Test mode : DH1-L mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora

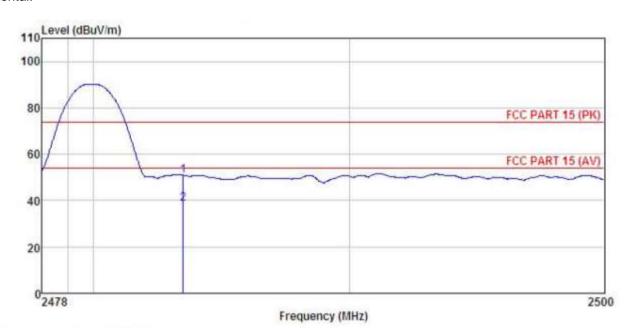
L. PLANT		Read	Ant enna	Cable	Preamn		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level			Remark
	MHz	dBu∜	dB/m	dB	₫B	dBuV/m	dBuV/m	₫B	
1 2	2390.000 2390.000					49.52 37.47			Peak Average





Test channel: Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : LTE SMART PHONE Condition

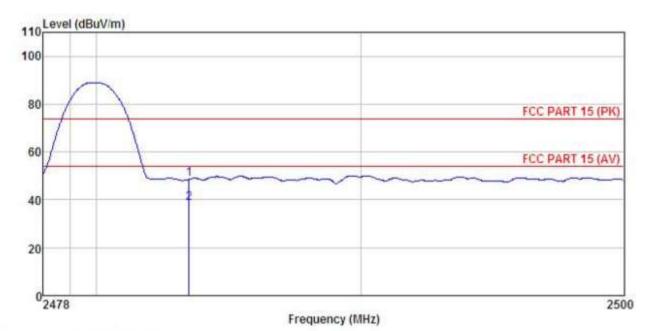
EUT : GO Onyx LTE Model Test mode : DH1-H mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Zora REMARK :

EMAL	1764	ReadAntenr Level Facto							Remark
	MHz	—dBu∀	dB/m	<u>d</u> B	<u>d</u> B	dBuV/m	dBu∀/m	<u>d</u> B	
1 2	2483.500 2483.500								







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : LTE SMART PHONE Condition

EUT : GO Onyx LTE

Test mode : DH1-H mode

Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora

REMARK :

	Read	Antenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBu₹	dB/m	₫₿	−−−dB	dBu∜/m	dBuV/m	dB	
2483.500 2483.500								

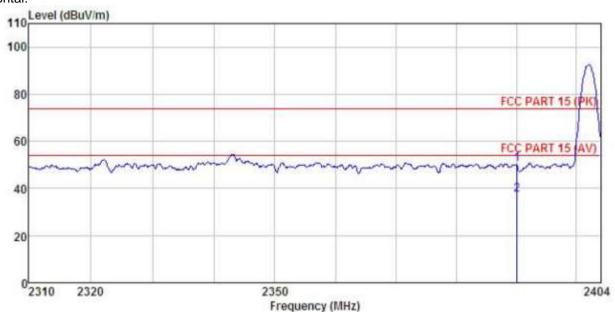




π/4-DQPSK mode

Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : LTE SMART PHONE Condition

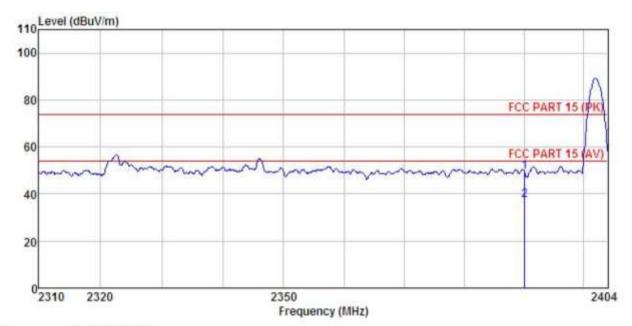
EUT Model : GO Onyx LTE Test mode : 2DH1-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: Zora REMARK :

cmar	T.								
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
	MHz	dBu∜	dB/m	dB	−−−dB	dBuV/m	dBuV/m	dB	
1 2		THE RESERVE TO LEGISLA	25.45 25.45	177.000.000		50.16 37.52			Peak Average







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : LTE SMART PHONE Condition

EUT Model : GO Onyx LTE
Test mode : 2DH1-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: Zora REMARK :

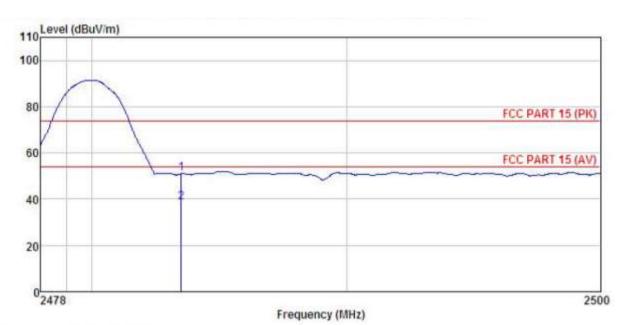
or Principle 1	325	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	dB/m	dB	dB	dBuV/m	dBu√/m	₫B	
	2390.000 2390.000								





Test channel: Highest

Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT : LTE SMART PHONE
Model : GO Onyx LTE
Test mode : 2DH1-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

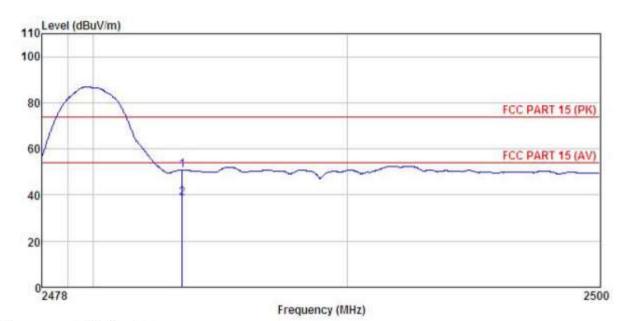
Test Engineer: Zora REMARK :

1 2

-		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq		Factor				Line	Limit	Remark
	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	₫B	
	2483.500 2483.500			4 4 7 4 7		50.96 38.59			Peak Average







: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : LTE SMART PHONE Condition EUT

Model : GO Onyx LTE
Test mode : 2DH1-H mode
Power Rating : AC 120V/60Hz
Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora REMARK :

		Read	Ant enna	Cable	Preamp		Limit	Over	Remark
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	dB/m	₫B	₫₿	dBuV/m	dBuV/m	₫B	
1 2	2483.500 2483.500								

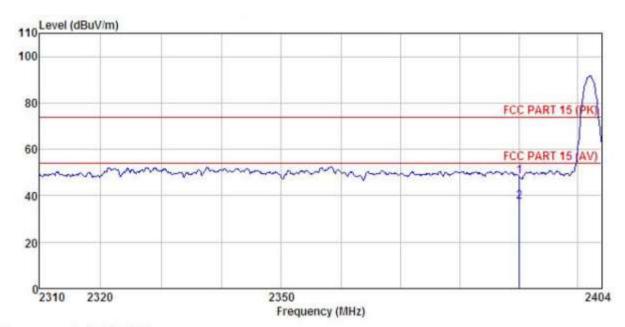




8DPSK mode

Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : LTE SMART PHONE Condition

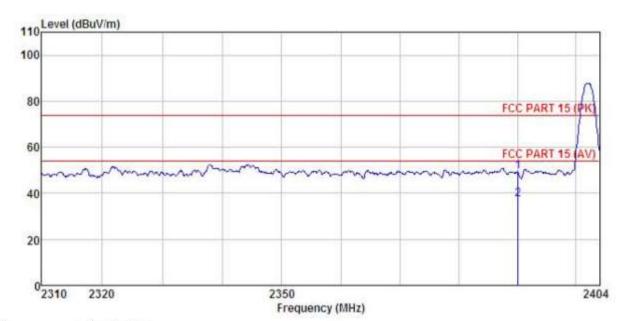
EUT Model : GO Onyx LTE Test mode : 3DH1-L mode Power Rating : AC 120V/60Hz

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

EMAF	ck :	Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level			
	MHz	<u>dBuV</u>	dB/m	dB	₫B	dBuV/m	dBuV/m	dB	
1 2	2390,000 2390,000		1000 T000 C00 T00			48.25 37.48			







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : LTE SMART PHONE Condition EUT

Model : GO Onyx LTE
Test mode : 3DH1-L mode
Power Rating : AC 120V/60Hz
Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora REMARK :

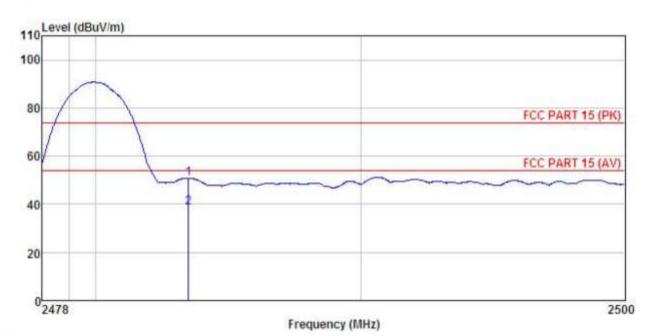
	Read	Antenna	Cable	Preamp		Limit	Over	D
rreq	rever	ractor	Loss	ractor	rever	Line	Limit	Remark
MHz	dBuV	dB/m	₫₿	dB	dBu∀/a	$\overline{dBuV/m}$	dB	***
2390.000 2390.000								





Test channel: Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : LTE SMART PHONE Condition

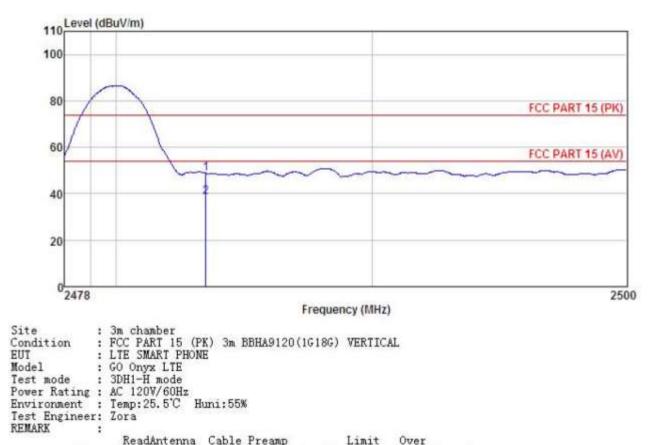
EUT Model : GO Onyx LTE
Test mode : 3DH1-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora

REMARK

			Antenna Factor						
	MHz	dBu∇	dB/m	₫₿	dB	dBu∜/m	dBu√/m	dB	
1 2	2483.500 2483.500	20.46 8.11	25.66 25.66	4.81	0.00 0.00	50.93 38.58	74.00 54.00	-23.07 -15.42	Peak Average







EMAK	т :	Road	Antenna	Cable	Presmo		Limit	Over	
	Freq		Factor						Remark
	MHz	dBu∀	dB/m	₫B	₫₿	dBuV/m	dBuV/m	₫₿	
1 2	2483,500 2483,500					48. 84 38. 55			Peak Average



6.10 Spurious Emission

6.10.1 Conducted Emission Method

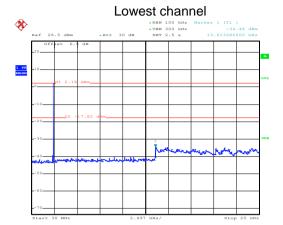
Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and DA00-705					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall 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 5.8 for details					
Test mode:	Non-hopping mode					
Test results:	Pass					





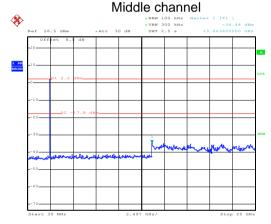
Test plot as follows:

GFSK



Date: 3.NOV.2017 12:59:09

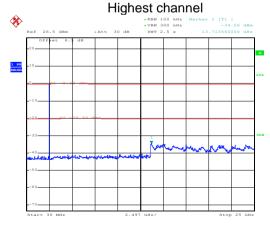
30MHz~25GHz



Date: 3.NOV.2017 13:00:14

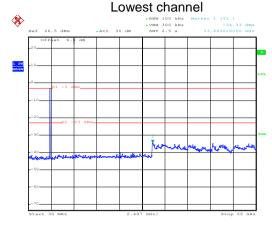
Date: 3.NOV.2017 13:01:34

30MHz~25GHz



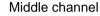
30MHz~25GHz

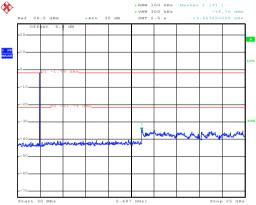
π/4-DQPSK



Date: 3.NOV.2017 13:03:09

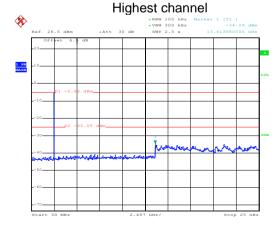
30MHz~25GHz





Date: 3.NOV.2017 13:04:41

30MHz~25GHz



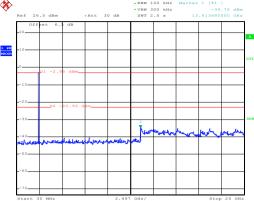
Date: 3.NOV.2017 13:06:55

30MHz~25GHz



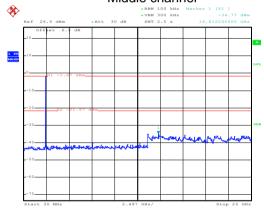
8DPSK

Lowest channel



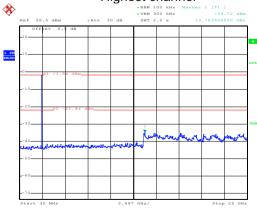
Date: 3.NOV.2017 13:07:54

30MHz~25GHz Middle channel



Date: 3.NOV.2017 13:19:51

30MHz~25GHz Highest channel



Date: 3.NOV.2017 13:08:57

30MHz~25GHz





6.10.2 Radiated Emission Method

6.10.2 Radiated Emission Test Requirement:		FCC Part 15 C Section 15.209							
Test Method:	ANSI C63.10: 2								
Test Frequency Range:	9 kHz to 25 GH								
Test Distance:	3m								
Receiver setup:	Frequency	Detecto	or	RBW	VBW	' Rema	ırk		
·	30MHz-1GHz	Quasi-pe		120kHz	300kl	Iz Quasi-peal	k Value		
	4011	Peak		1MHz	ЗМН				
	Above 1GHz	RMS		1MHz	ЗМН	z Average	Value		
Limit:	Frequenc	у	Lim	it (dBuV/m @	23m)	Remark			
	30MHz-88N	ИНz		40.0		Quasi-peak \	Value		
	88MHz-216	ИНz		43.5		Quasi-peak \	Value		
	216MHz-960	MHz		46.0		Quasi-peak \	Value		
	960MHz-10	SHz		54.0		Quasi-peak \	Value		
	Above 1GI	47		54.0		Average Va	alue		
	Above 101	12		74.0		Peak Valu	ne		
Test setup:	7/////	Jame Jame James Ja	4m	Ground Reference Plane	Horn Antenna Amplifier Cor	Antenna Tower Search Antenna RF Test Receiver Antenna Tower			





Test Procedure:	The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest 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.				
	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 5.8 for details				
Test mode:	Non-hopping mode				
Test results:	Pass				
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and for the Y-axis is the worst case. 9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report. 				

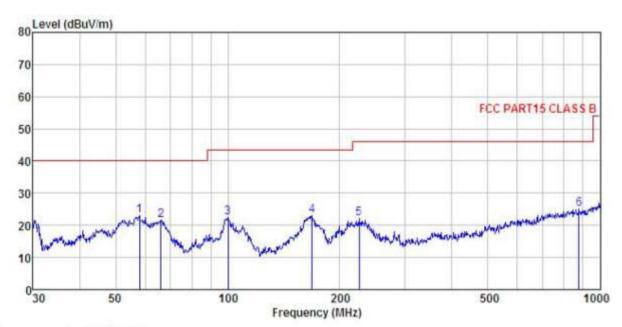




Measurement data:

Below 1GHz

Vertical:



: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M2G) VERTICAL : LTE SMART PHONE Condition

EUT Mode1 : GO Onyx LTE Test mode : BT mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

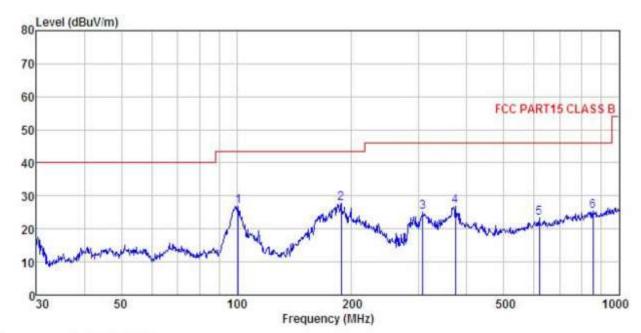
Test Engineer: Zora REMARK

α									
	Freq		Antenna Factor				Limit Line		
-	MHz	dBu∀	dB/m	₫₿	₫B	dBuV/m	dBuV/m	₫₿	
1	57.999	38.17	13.12	1.37	29.78	22.88	40.00	-17.12	QP
2	66.266	38.53	11.24	1.41	29.75	21.43	40.00	-18.57	QP
2	100.229	37.83	12.20	1.94	29.53	22.44	43.50	-21.06	QP
4	168.414	40.47	8.92	2.64	29.06	22.97	43.50	-20.53	QP
5	225.308	36.82	11.30	2.84	28.68	22.28	46.00	-23.72	QP
6	878.322	28.43	20.66	3.92	27.93	25.08	46.00	-20.92	QP





Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M2G) HORIZONTAL : LTE SMART PHONE Condition

EUT Model : GO Onyx LTE Test mode : BI mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora REMARK :

1 2 3 4 5	1000	ReadAntenna Freq Level Factor		Cable	Preamp		Limit	Over		
	Freq			req Level Factor		Loss Factor		Level	Line	Limit
	MHz	₫₿uV	dB/m	dB	dB	dBu∜/m	dBuV/m	dB		
1	100.934	42.22	12.20	1.95	29.52	26.85	43.50	-16.65	QP	
2	187.753	43.59	10.22	2.78	28.92	27.67	43.50	-15.83	QP	
3	306.754	37.14	13.45	2.96	28.47	25.08	46.00	-20.92	QP	
4	373.311	37.82	14.52	3.09	28.66	26.77	46.00	-19.23	QP	
5	618.537	29.77	18.58	3.91	28.88	23.38	46.00	-22.62	QP	
6	854.025	28.57	20.60	4.15	27.99	25.33	46.00	-20.67	QP	



Above 1GHz:

Te	st channel:		Lowest		Lev	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	
4804.00	47.03	35.99	6.80	41.81	48.01	74.00	-25.99	Vertical	
4804.00	45.52	35.99	6.80	41.81	46.50	74.00	-27.50	Horizontal	
Te	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	37.89	35.99	6.80	41.81	38.87	54.00	-15.13	Vertical	
4804.00	36.21	35.99	6.80	41.81	37.19	54.00	-16.81	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	45.88	36.38	6.86	41.84	47.28	74.00	-26.72	Vertical
4882.00	47.44	36.38	6.86	41.84	48.84	74.00	-25.16	Horizontal
Te	Test channel:			Middle		Level:		erage
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	36.65	36.38	6.86	41.84	38.05	54.00	-15.95	Vertical
4882.00	38.14	36.38	6.86	41.84	39.54	54.00	-14.46	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	46.58	36.71	6.91	41.87	48.33	74.00	-25.67	Vertical	
4960.00	46.57	36.71	6.91	41.87	48.32	74.00	-25.68	Horizontal	
Te	Test channel:			Highest		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4960.00	37.45	36.71	6.91	41.87	39.20	54.00	-14.80	Vertical	
4960.00	37.52	36.71	6.91	41.87	39.27	54.00	-14.73	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.