

🥇 Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE170907204

FCC REPORT

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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2 Version

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

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

Test Engineer

Reviewed by: Lyan. Lee 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)(3)	Pass			
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass			
Power Spectral Density	15.247 (e)	Pass			
Band Edge	15.247(d)	Pass			
Conducted and Radiated Spurious Emission	15.205/15.209	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:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	0.3dBi
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 802.11b/g/n(H20)								
Channel	Channel Frequency Channel Frequency Channel Frequency Channel Frequency							
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz	
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz	
3	2422MHz	6	2437MHz	9	2452MHz			

Note:

- 1. For 802.11n-HT40 mode, the channel number is from 3 to 9;
- 2. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel, Channel; 3, 6

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

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& 9 selected for 802.11n-HT40 as Lowest, Middle and Highest channel, Channel.



5.3 Test environment and test mode

Operating Environment:		
Temperature:	24.0 °C	
Humidity:	54 % RH	
Atmospheric Pressure:	1010 mbar	
Test mode:		

Transmitting mode	Keep the EUT in continuous transmitting with modulation

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, 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.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate, the follow list were the worst case.

Mode	Data rate		
802.11b	1Mbps		
802.11g	6Mbps		
802.11n(H20)	6.5Mbps		

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

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,

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5.8 Test Instruments list

Radiated Emission:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020		
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	02-25-2017	02-24-2018		
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	02-25-2017	02-24-2018		
Horn Antenna	SCHWARZBECK	BBHA9120D	916	02-25-2017	02-24-2018		
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A		
Pre-amplifier	HP	8447D	2944A09358	02-25-2017	02-24-2018		
Pre-amplifier	CD	PAP-1G18	11804	02-25-2017	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	ZDECL	Z108-NJ-NJ-81	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	SCHWARZBECK	OSRAM 2306	9731	02-25-2017	02-24-2018
LISN	CHASE	MN2050D	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 WiFi antenna is an External antenna which cannot replace by end-user, the best case gain of the antenna is 0.3 dBi.







6.2 Conducted Emission

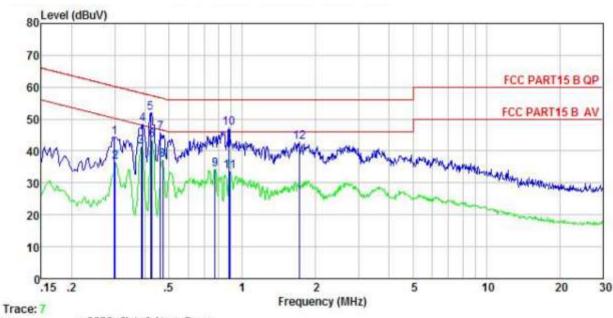
Test Requirement:	FCC Part 15 C Section 1	5.207				
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150 kHz to 30 MHz					
Class / Severity:	Class B					
•						
Receiver setup:	RBW=9 kHz, VBW=30 k		ID 10			
Limit:	Frequency range (MHz)	Limit (c Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the log	arithm of the frequency.				
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which 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 setup:	AUX Equipment Test table/Insula Remark EUT: Equipment Under LISN Line Impedence St. Test table height=0 8m	E.U.T EMI Receiver	Iter — AC power			
Test Instruments:	Refer to section 5.8 for d	etails				
Test mode:	Refer to section 5.3 for d	etails				
Test results:	Passed					





Measurement Data:

Neutral:



Site

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

EUT : GO Onyx LTE Model Test Mode : Wifi mode

Power Rating : AC 120/60Hz Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Zora

Freq	The second second		Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	₫₿uѶ	₫₿	₫₿	dBu∇	dBu∛	₫₿	
0.299	34.00	-0.32	10.74	44.42	60.28	-15.86	QP
0.302	26.05	-0.32	10.74	36.47	50.19	-13.72	Average
0.385	31.03	-0.32	10.72	41.43	48.17	-6.74	Average
0.389	38.08	-0.32	10.72	48.48	58.08	-9.60	QP
0.421	41.46	-0.32	10.73	51.87	57.42	-5.55	QP
0.426	32.93	-0.31	10.73	43.35	47.33	-3.98	Average
0.461	35.35	-0.31	10.74	45.78			
0.471	26, 78	-0.31	10.75	37.22	46.49	-9.27	Average
0.771	23.69	-0.30	10.80	34.19	46.00	-11.81	Average
0.880	36.83	-0.29	10.83	47.37	56.00	-8.63	QP
0.885	23.08	-0.29	10.84	33.63	46.00	-12.37	Average
1.707	32.16	-0.27	10.94	42.83	56.00	-13.17	QP
	MHz 0. 299 0. 302 0. 385 0. 389 0. 421 0. 426 0. 461 0. 471 0. 771 0. 880 0. 885	Freq Level MHz dBuV 0.299 34.00 0.302 26.05 0.385 31.03 0.389 38.08 0.421 41.46 0.426 32.93 0.461 35.35 0.471 26.78 0.771 23.69 0.880 36.83 0.885 23.08	MHz dBuV dB 0. 299 34. 00 -0. 32 0. 302 26. 05 -0. 32 0. 385 31. 03 -0. 32 0. 389 38. 08 -0. 32 0. 421 41. 46 -0. 32 0. 426 32. 93 -0. 31 0. 461 35. 35 -0. 31 0. 471 26. 78 -0. 31 0. 771 23. 69 -0. 30 0. 880 36. 83 -0. 29 0. 885 23. 08 -0. 29	Freq Level Factor Loss MHz dBuV dB dB 0.299 34.00 -0.32 10.74 0.302 26.05 -0.32 10.74 0.385 31.03 -0.32 10.72 0.389 38.08 -0.32 10.72 0.421 41.46 -0.32 10.73 0.426 32.93 -0.31 10.73 0.461 35.35 -0.31 10.73 0.461 35.35 -0.31 10.74 0.471 26.78 -0.31 10.75 0.771 23.69 -0.30 10.80 0.880 36.83 -0.29 10.83 0.885 23.08 -0.29 10.84	MHz dBuV dB dB dBuV 0.299 34.00 -0.32 10.74 44.42 0.302 26.05 -0.32 10.74 36.47 0.385 31.03 -0.32 10.72 41.43 0.389 38.08 -0.32 10.72 48.48 0.421 41.46 -0.32 10.73 51.87 0.426 32.93 -0.31 10.73 43.35 0.461 35.35 -0.31 10.74 45.78 0.471 26.78 -0.31 10.75 37.22 0.771 23.69 -0.30 10.80 34.19 0.880 36.83 -0.29 10.83 47.37 0.885 23.08 -0.29 10.84 33.63	MHz dBuV dB dB dBuV dBuV 0.299 34.00 -0.32 10.74 44.42 60.28 0.302 26.05 -0.32 10.74 36.47 50.19 0.385 31.03 -0.32 10.72 41.43 48.17 0.389 38.08 -0.32 10.72 48.48 58.08 0.421 41.46 -0.32 10.73 51.87 57.42 0.426 32.93 -0.31 10.73 43.35 47.33 0.461 35.35 -0.31 10.74 45.78 56.67 0.471 26.78 -0.31 10.75 37.22 46.49 0.771 23.69 -0.30 10.80 34.19 46.00 0.880 36.83 -0.29 10.83 47.37 56.00 0.885 23.08 -0.29 10.84 33.63 46.00	MHz dBuV dB dB dBuV dBuV dB 0.299 34.00 -0.32 10.74 44.42 60.28 -15.86 0.302 26.05 -0.32 10.74 36.47 50.19 -13.72 0.385 31.03 -0.32 10.72 41.43 48.17 -6.74 0.389 38.08 -0.32 10.72 48.48 58.08 -9.60 0.421 41.46 -0.32 10.73 51.87 57.42 -5.55 0.426 32.93 -0.31 10.73 43.35 47.33 -3.98 0.461 35.35 -0.31 10.74 45.78 56.67 -10.89 0.471 26.78 -0.31 10.75 37.22 46.49 -9.27 0.771 23.69 -0.30 10.80 34.19 46.00 -11.81 0.880 36.83 -0.29 10.83 47.37 56.00 -8.63 0.885 23.08 -0.29 </td

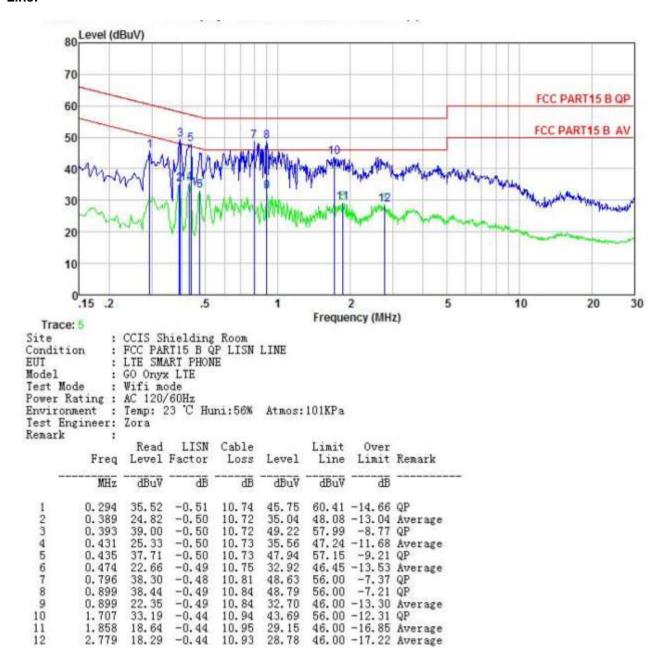
Notes:

- 1. An initial pre-scan was performed on the live 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.





Line:



Notes:

- 1. An initial pre-scan was performed on the live 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 C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 9.2.2.2				
Limit:	30dBm				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data:

Test CH	Maximum	Limit(dBm)	Result			
	802.11b	Limit(dBin)				
Lowest	9.75	8.68	9.11		Pass	
Middle	13.56	11.99	12.35	30.00		
Highest	9.62	8.20	8.67			





6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 8.1				
Limit:	>500kHz				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data:

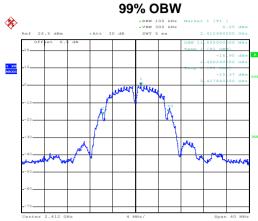
Test CH	6dE	Limit(kHz)	Result			
1031 011	802.11b 802.11g		2.11g 802.11n(H20)		result	
Lowest	9.68	16.24	17.52		Pass	
Middle	8.72	15.84	16.08	>500		
Highest	9.92	16.48	17.28			
Test CH	999	Limit(kHz)	Result			
1031 011	802.11b	802.11g	802.11n(H20)	LIIIII(KI IZ)	Nesult	
Lowest	11.60	16.48	17.68		N/A	
Middle	11.04	16.48	17.52	N/A		
Highest	11.60	16.56	17.68			



Test plot as follows:

ABM 100 MHz | Culta 1 [T1] | 0.30 MB | 0.40 MB | 0.30 MB | 0.40 MB | 0.40

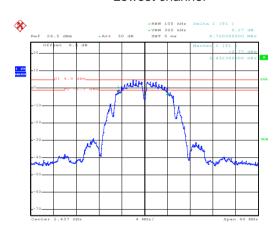
802.11b

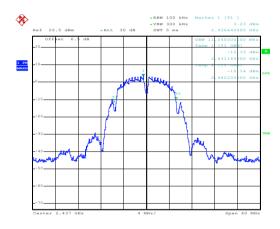


Date: 3.NOV.2017 06:56:37

Lowest channel







Date: 3.NOV.2017 06:57:58

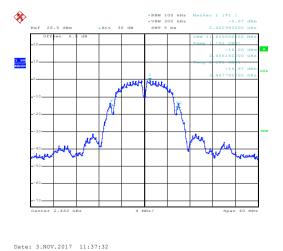
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Date: 3.NOV.2017 11:36:52

Middle channel

Middle channel





Highest channel

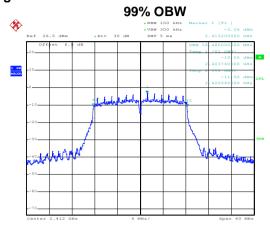
Highest channel

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100 kHz Delta 1 [T1] **NBW 300 kHz Delta 1 [T1] **NBW 300 kHz 1 [T1] **OFF SEE 6.1 kHz 30 dh SWY 5 ms 16.24000000 MHz **The second of the second of

802.11g

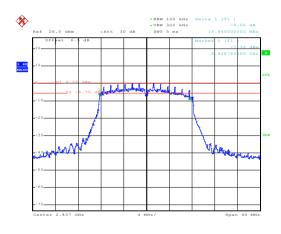


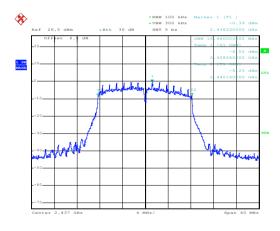
Date: 3.NOV.2017 07:01:27

Lowest channel

Date: 3.NOV.2017 11:38:45

Lowest channel





Date: 3.NOV.2017 07:03:40

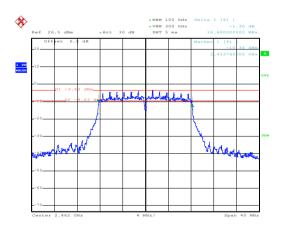
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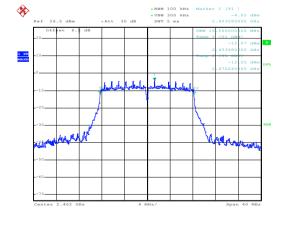
Date: 3.NOV.2017 11:38:18

Date: 3.NOV.2017 11:37:59

Middle channel

Middle channel





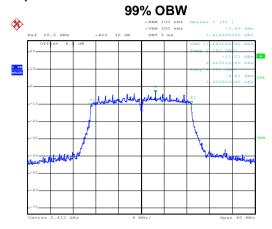
Highest channel

Highest channel

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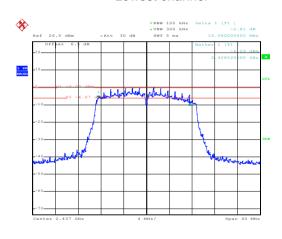
802.11n(H20)

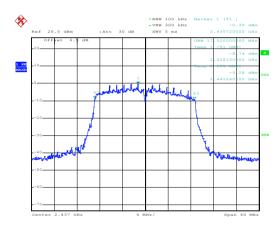


Date: 3.NOV.2017 07:06:53

Lowest channel







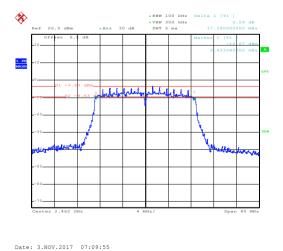
Date: 3.NOV.2017 07:08:40

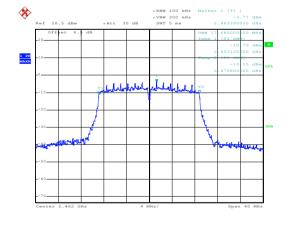
Date: 3.NOV.2017 11:39:25

Date: 3.NOV.2017 11:39:56

Middle channel

Middle channel





Highest channel

Highest channel

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Bao'an District, Shenzhen, Guangdong, China
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6.5 Power Spectral Density

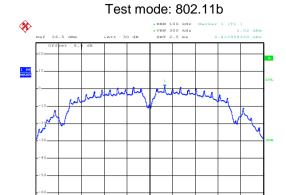
Test Requirement:	FCC Part 15 C Section 15.247 (e)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 10.2				
Limit:	8dBm				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data:

Test CH	Pow	Limit(dBm)	Result		
	802.11b	802.11g	802.11n(H20)	Limit(abin)	Result
Lowest	1.02	-3.28	-3.50		
Middle	3.78	-0.54	-0.67	8.00	Pass
Highest	-0.34	-3.83	-4.10		



Test plot as follows:

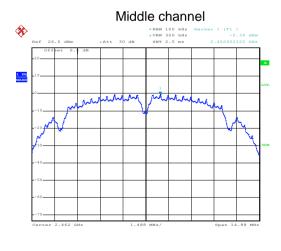


Date: 3.NOV.2017 07:55:16

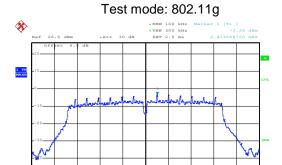
Lowest channel - ARM 100 bits Marker 1 [71] - VAN 300 db SWY 2.5 ma 2.43545650 dbs - ARE 30 db SWY 2.5 ma 2.43545650 dbs - ARE 30 db SWY 2.5 ma 2.43545650 dbs - ARE 30 db SWY 2.5 ma 2.43545650 dbs - ARE 30 db SWY 2.5 ma 2.43545650 dbs

Date: 3.NOV.2017 07:55:57

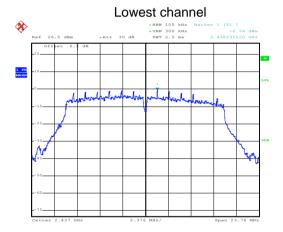
Date: 3.NOV.2017 07:56:29



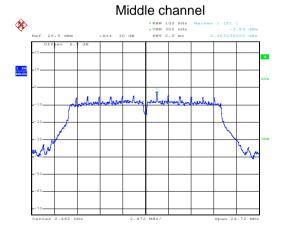
Highest channel



Date: 3.NOV.2017 07:59:01



Date: 3.NOV.2017 08:00:35

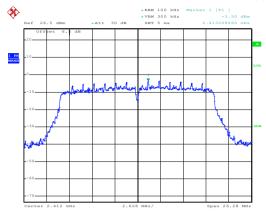


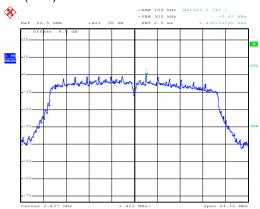
Date: 3.NOV.2017 08:01:43

Highest channel



Test mode: 802.11n(H20)

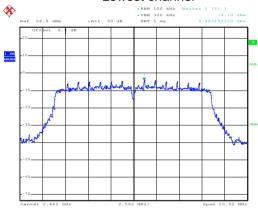




Date: 3.NOV.2017 08:02:46

Date: 3.NOV.2017 08:03:21

Lowest channel



Date: 3.NOV.2017 08:04:18

Highest channel

Middle channel





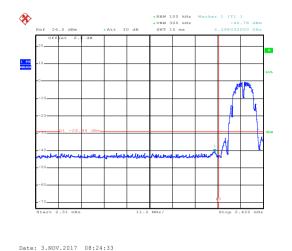
6.6 Band Edge

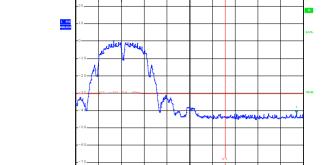
6.6.1 Conducted Emission Method

-					
Test Requirement:	FCC Part 15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 13				
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 30 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:	Refer to section 5.3 for details				
Test results:	Passed				



Test plot as follows:

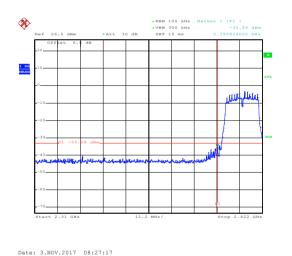




Date: 3.NOV.2017 08:25:52

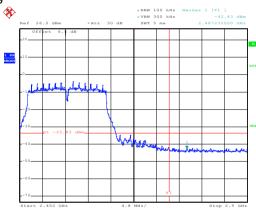
Lowest channel

Highest channel





802.11b



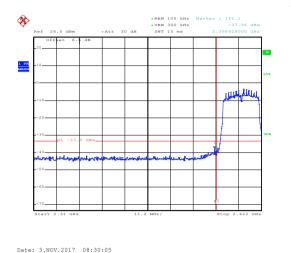
Lowest channel

Highest channel

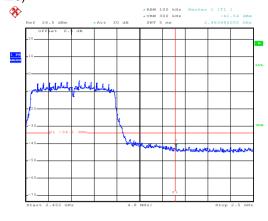
Date: 3.NOV.2017 08:28:33







802.11n(H20)



Lowest channel

Highest channel

Date: 3.NOV.2017 08:30:59





6.6.2 Radiated Emission Method

6.6.2	5.2 Radiated Emission Method							
	Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
	Test Method:	ANSI C63.10: 2013 and KDB558074 D01 DTS Meas Guidance v04 section 12.1						
	Test Frequency Range:	2.3GHz to 2.5GHz						
	Test Distance:	3m						
	Receiver setup:	Frequency	Detec	tor	RBW	V	BW	Remark
	·	Above 1GHz	Peal		1MHz		ИHz	Peak Value
			RMS		1MHz		MHz I	Average Value
	Limit:	Frequenc	У	Lin	nit (dBuV/m @:	3m)	۸,	Remark
		Above 1GI	Ηz		54.00 74.00			verage Value Peak Value
	Test potun:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data 					ted 360 degrees ce-receiving e-height antenna meters above ield strength. nna are set to d to its worst n 1 meter to 4 s to 360 degrees nction and OdB lower than If the peak values ons that did not sing peak, quasi-	
	Test setup:	150cm	AE E	· W	Ground Reference Plane	n Antenna Pre- ptifier Co	Antenna Tov	wer
	Test Instruments:	Refer to section	5.8 for c	detail	s			
	Test mode:	Refer to section	5.3 for c	detail	s			
	Test results:	Passed						

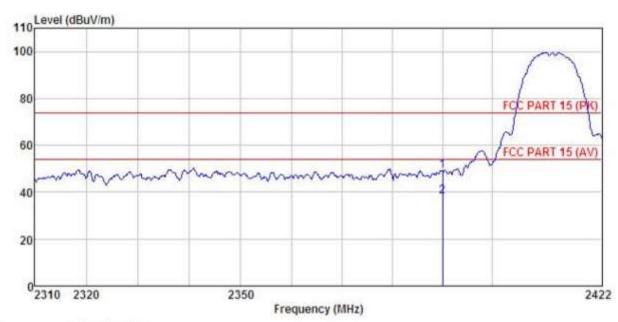




802.11b

Test channel: Lowest

Horizontal:



Site : 3m chamber

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

EUT : LTE SMART PHONE
Model : GO Onyx LTE
Test mode : 802.11B-L mode
Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora

REMARK

TOTA	E _ SES	Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	dB/m	−−−dB	dB	dBuV/m	dBuV/m	dB	
	2390.000 2390.000			4.69 4.69					Peak Average

Remark:

2

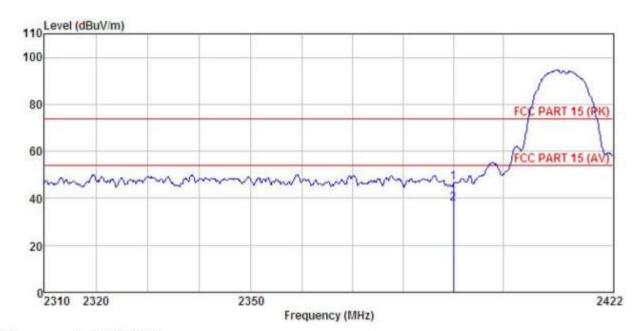
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366





Vertical:



: 3m chamber

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

EUT Model : GO Onyx LTE Test mode : 802.11B-L mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora

man.	41								
		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	dB/m	dB	<u>dB</u>	dBu√/m	dBu∀/m	dB	
1			25.45 25.45	0.0000000000000000000000000000000000000		46.55			Peak Average

Remark:

2

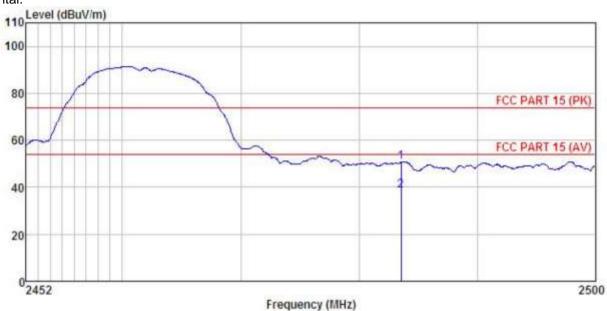
- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site

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

EUT : GO Onyx LTE : 802.11B-H mode Model Test mode Power Rating: AC 120V/60Hz Environment: Temp:25.5°C Huni:55%

Test Engineer: Zora

men.	and the second								
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz		<u>dB</u> /m			dBuV/m			
1 2	2483.500 2483.500								

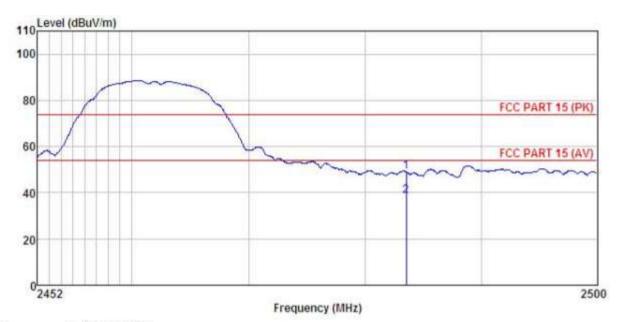
Remark:

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





Vertical:



Site

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

EUT : GO Onyx LTE : 802.11B-H mode Model Test mode Power Rating: AC 120V/60Hz Environment: Temp:25.5°C Huni:55% Test Engineer: Zora REMARK:

rame									
		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	₫B	₫B	dBuV/m	dBuV/n	dB	
1 2	2483.500 2483.500			200			1 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Peak Average

Remark:

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

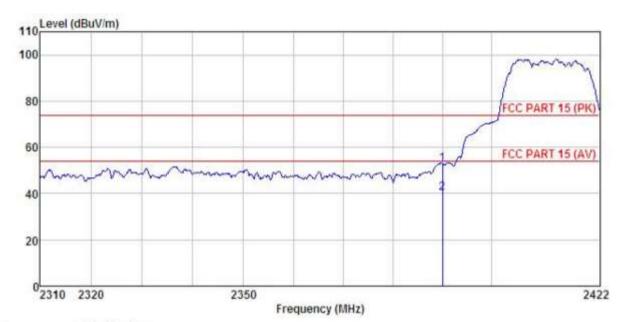




802.11g

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 : 802.11G-L mode
Power Rating : AC 120V/60Hz
Environment

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora REMARK

and the		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	₫B	₫B	dBuV/m	dBuV/m	₫B	
1 2	2390.000 2390.000					52.78 40.04			Peak Average

Remark:

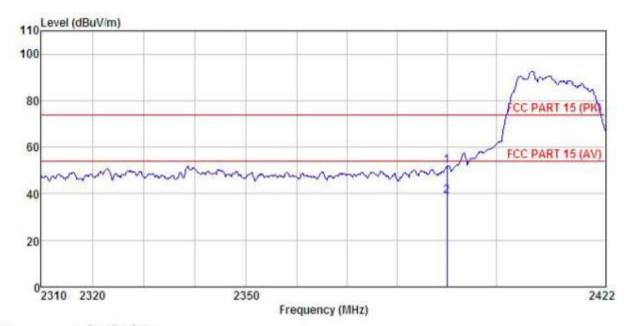
- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

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





Vertical:



Site Condition

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

EUT

Model : GO Onyx LTE Test mode : 802.11G-L mode Power Rating : AC 120V/60Hz

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

nar.	. A.								
		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∜	dB/m	₫B	₫₿	dBuV/m	dBuV/m	₫B	
1	2390.000	21.78	25.45	4.69	0.00	51.92	74.00	-22.08	Peak
2	2390 000	8 64	25.45	4 69	0.00	38 78	54.00	-15. 22	Augrage

Remark:

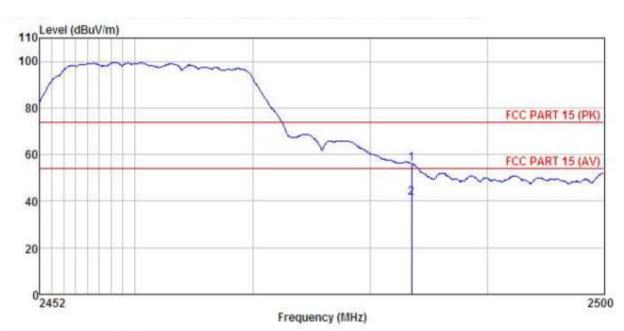
- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.





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 : 802.11G-H mode
Power Rating : AC 120V/60Hz

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

EMA	RK :	Read	Åntenna	Cable	Preamn		Limit	Over	
	Freq		Factor						
	MHz	dBu₹	dB/m	dB	d₿	dBuV/m	dBuV/m	dB	
1			25.66 25.66						Peak Average

Remark:

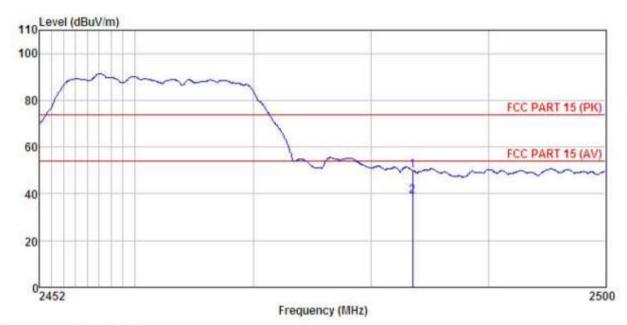
- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report. 2.

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Vertical:



Site

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

EUT Model : GO Onyx LTE Test mode : 802.11G-H mode Power Rating : AC 120V/60Hz

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

m	un :								
		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	<u>dB</u>	dBuV/m	dBuV/m	dB	
65	2483.500 2483.500								Peak

Remark:

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

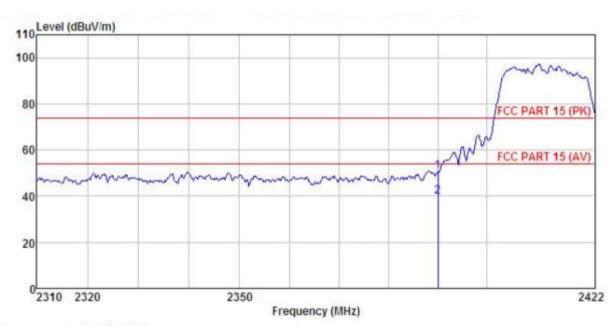




802.11n (H20)

Test channel: Lowest

Horizontal:



Site

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

EUT Model : GO Onyx LTE : 802.11N20-L mode Test mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora REMARK :

		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq		Factor dB/m		Factor dB	Level dBuV/m		- 1000	Remark
	MHz	z dBuV		dB					
1 2	2390,000			200000000000000000000000000000000000000		50.75 39.60			

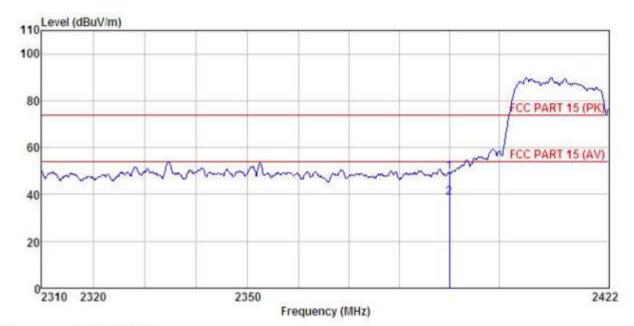
Remark:

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





Vertical:



Site : 3m chamber

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

EUT Model : GO Onyx LTE Test mode : 802.11N2O-L mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora

mrus	14.	Read	ånt enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
9	MHz	dBu₹	dB/m	d₿	dB	dBuV/m	dBuV/m	d₿	
1 2	2390,000								

Remark:

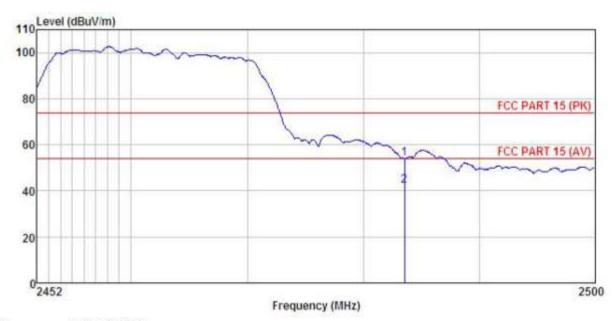
- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.





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 : 802.11N20-H mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Zora REMARK :

as Huraco		Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB/m	d₿	<u>dB</u>	dBuV/m	dBuV/m	dB	
	2483.500 2483.500								

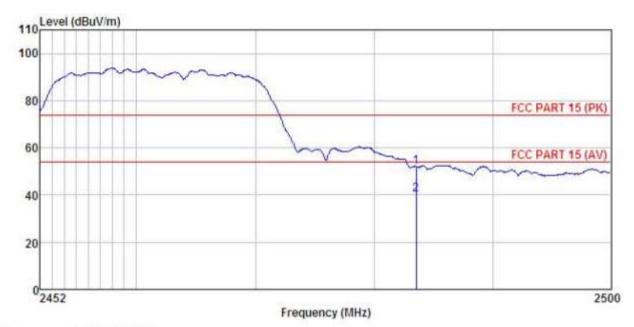
Remark:

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





Vertical:



Site

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

EUT Model : GO Onyx LTE Test mode : 802.11N20-H mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Zora REMARK :

A. SPINE DA	-	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	₫B	dB	dBuV/m	dBuV/m	−−−dB	
1 2	2483, 500 2483, 500					52.16 40.06			

Remark:

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



6.7 Spurious Emission

6.7.1 Conducted Emission Method

6.7.1 Conducted Emission	Inchica
Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 11
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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

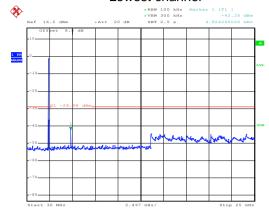




Test plot as follows:

Test mode: 802.11b

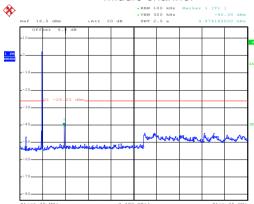
Lowest channel



Date: 3.NOV.2017 11:41:29

30MHz~25GHz

Middle channel

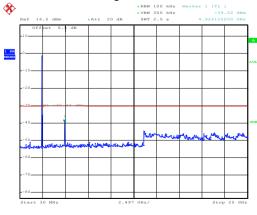


Date: 3.NOV.2017 11:42:06

Date: 3.NOV.2017 11:42:31

30MHz~25GHz

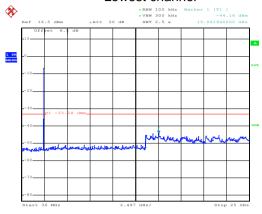
Highest channel



30MHz~25GHz

Test mode: 802.11g

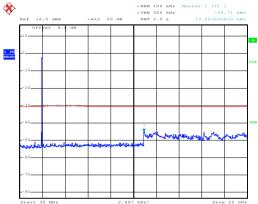
Lowest channel



Date: 3.NOV.2017 11:49:30

30MHz~25GHz

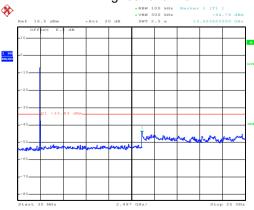
Middle channel



Date: 3.NOV.2017 11:43:49

30MHz~25GHz

Highest channel



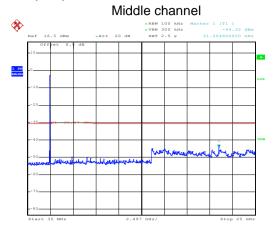
Date: 3.NOV.2017 11:44:18

30MHz~25GHz



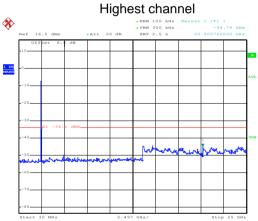


Test mode: 802.11n(H20)



Date: 3.NOV.2017 11:44:44

30MHz~25GHz



Date: 3.NOV.2017 11:45:53

30MHz~25GHz

30MHz~25GHz

Date: 3.NOV.2017 11:45:15





6.7.2 Radiated Emission Method

6.7.2	Radiated Emission Me	ethod							
	Test Requirement:	FCC Part 15 C S	ection 1	5.209	and 15.205				
	Test Method:	ANSI C63.10:201	13						
	Test Frequency Range:	9kHz to 25GHz							
	Test Distance:	3m							
	Receiver setup:	Frequency	Detec	ctor	RBW	VI	3W	Remark	
	•	30MHz-1GHz	Quasi-	peak	120KHz	300	KHz	Quasi-peak Value	
		Above 1GHz	Pea		1MHz		/IHz	Peak Value	
	1 touts		RM		1MHz t (dBuV/m @3r		/lHz	Average Value Remark	
	Limit:	Frequency 30MHz-88MH	7	LIIIII	40.0	11)	Oı	uasi-peak Value	
		88MHz-216MHz 43.5 Quasi-peak Value							
		216MHz-960MHz 46.0 Quasi-peak Value							
		960MHz-1GHz 54.0 Quasi-peak Value							
		Above 1GHz 54.0 Average Value							
	Test 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 antenn 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 degree 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 value of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quas peak or average method as specified and then reported in a data 							
Test setup: Below 1GHz Antenna Tower Search Antenna RF Test Receiver Ground Plane								Search Antenna st er	





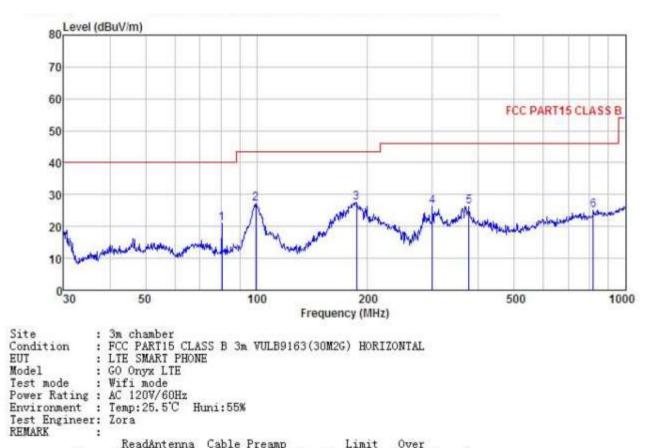
	Above 1GHz
	Harn Anlenna Tower Ground Reference Plane Test Receiver Amplier Controller
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.





Below 1GHz

Horizontal:

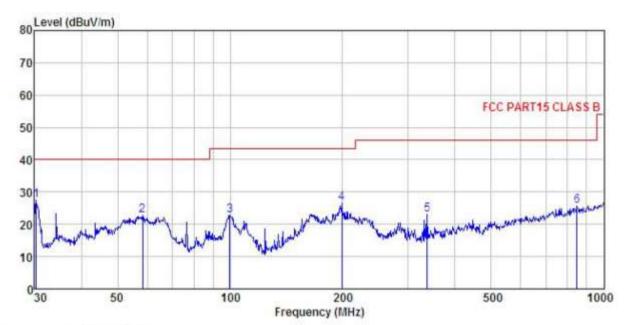


TAME:	n :								
	Freq		Antenna Factor				Limit Line	Over Limit	
3	MHz	dBu₹	dB/m	dB	dB	dBuV/m	dBuV/m	<u>d</u> B	
1	80.644	40.11	8.92	1.69	29.64	21.08	40.00	-18.92	QP
123456	99.528	42.89	11.93	1.95	29.53	27.24	43.50	-16.26	QP
3	186.441	43.71	10.04	2.77	28.93	27.59	43.50	-15.91	QP
4	299.316	38.24	13.40	2.94	28.45	26.13	46.00	-19.87	QP
5	377.259	37.43	14.56	3.09	28.68	26.40	46.00	-19.60	QP
6	818.834	28.78	20.05	4.29	28.12	25.00	46.00	-21.00	QP





Vertical:



Site

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

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

Test Engineer: Zora REMARK

DWVI/V									
	Freq		Antenna Factor				Limit Line	Over Limit	
-	MHz	dBuV	dB/m	dB	₫B	dBuV/m	dBuV/m	−−−dB	
1	30.317	45.47	11.20	0.78	29.98	27.47	40.00	-12.53	QP
2	58.407	38.07	13.12	1.37	29.78	22.78	40.00	-17.22	QP
3	99.878	38.49	11.93	1.94	29.53	22.83	43.50	-20.67	QP
5	199.286	41.38	11.30	2.86	28.83	26.71	43.50	-16.79	QP
5	337.216	34.15	14.20	3.06	28.53	22.88	46.00	-23.12	QP
6	848.056	28.95	20.58	4.20	28.01	25.72	46.00	-20.28	QP





Above 1GHz

Test mode: 80	02.11b		Test char	nnel: Lowest		Remark: Pea	ık	
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)	Polar.
4824.00	47.52	36.06	6.81	41.82	48.57	74.00	-25.43	Vertical
4824.00	50.56	36.06	6.81	41.82	51.61	74.00	-22.39	Horizontal
Test mode: 80	02.11b		Test char	nnel: Lowest		Remark: Ave	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)	Polar.
4824.00	37.58	36.06	6.81	41.82	38.63	54.00	-15.37	Vertical
4824.00	45.49	36.06	6.81	41.82	46.54	54.00	-7.46	Horizontal

Test mode: 8	02.11b		Test char	nnel: Middle		Remark: Pea	ık	
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)	Polar.
4874.00	47.49	36.32	6.85	41.84	48.82	74.00	-25.18	Vertical
4874.00	51.28	36.32	6.85	41.84	52.61	74.00	-21.39	Horizontal
Test mode: 8	02.11b		Test char	nnel: Middle		Remark: Ave	rage	
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)	Polar.
4874.00	38.26	36.32	6.85	41.84	39.59	54.00	-14.41	Vertical
4874.00	46.35	36.32	6.85	41.84	47.68	54.00	-6.32	Horizontal

Test mode: 80	02.11b		Test char	nnel: Highest		Remark: 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)	Polar.
4924.00	51.69	36.58	6.89	41.86	53.30	74.00	-20.70	Vertical
4924.00	53.69	36.58	6.89	41.86	55.30	74.00	-18.70	Horizontal
Test mode: 80	02.11b		Test char	nnel: Highest		Remark: Ave	rage	
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)	Polar.
4924.00	46.58	36.58	6.89	41.86	48.19	54.00	-5.81	Vertical
4924.00	48.68	36.58	6.89	41.86	50.29	54.00	-3.71	Horizontal

Remark:

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





Test mode: 80	02.11g		Test char	nnel: Lowest		Remark: Pea	k	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4824.00	48.52	36.06	6.81	41.82	49.57	74.00	-24.43	Vertical
4824.00	50.47	36.06	6.81	41.82	51.52	74.00	-22.48	Horizontal
Test mode: 80	02.11g		Test char	nnel: Lowest		Remark: Ave	rage	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4824.00	38.93	36.06	6.81	41.82	39.98	54.00	-14.02	Vertical
4824.00	43.69	36.06	6.81	41.82	44.74	54.00	-9.26	Horizontal

Test mode: 80)2.11g		Test char	nel: Middle		Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	48.59	36.32	6.85	41.84	49.92	74.00	-24.08	Vertical
4874.00	50.75	36.32	6.85	41.84	52.08	74.00	-21.92	Horizontal
Test mode: 80)2.11g		Test char	nel: Middle		Remark: Ave	rage	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	38.96	36.32	6.85	41.84	40.29	54.00	-13.71	Vertical
4874.00	44.27	36.32	6.85	41.84	45.60	54.00	-8.40	Horizontal

Test mode: 80	02.11g		Test char	nnel: Highest		Remark: Pea	k	
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)	Polar.
4924.00	51.24	36.58	6.89	41.86	52.85	74.00	-21.15	Vertical
4924.00	52.13	36.58	6.89	41.86	53.74	74.00	-20.26	Horizontal
Test mode: 80	02.11g		Test char	nnel: Highest		Remark: Ave	rage	
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)	Polar.
4924.00	45.29	36.58	6.89	41.86	46.90	54.00	-7.10	Vertical
4924.00	46.85	36.58	6.89	41.86	48.46	54.00	-5.54	Horizontal

Remark:

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





Test mode: 80	02.11n(H20)		Test channel: Lowest			Remark: 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)	Polar.
4824.00	48.12	36.06	6.81	41.82	49.17	74.00	-24.83	Vertical
4824.00	49.85	36.06	6.81	41.82	50.90	74.00	-23.10	Horizontal
Test mode: 80	02.11n(H20)		Test char	nnel: Lowest		Remark: Ave	rage	
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)	Polar.
4824.00	39.10	36.06	6.81	41.82	40.15	54.00	-13.85	Vertical
4824.00	42.25	36.06	6.81	41.82	43.30	54.00	-10.70	Horizontal

Test mode: 80	02.11n(H20)		Test char	nnel: Middle		Remark: Pea	ık	Remark: 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)	Polar.		
4874.00	48.56	36.32	6.85	41.84	49.89	74.00	-24.11	Vertical		
4874.00	50.82	36.32	6.85	41.84	52.15	74.00	-21.85	Horizontal		
Test mode: 80	02.11n(H20)		Test char	nnel: Middle		Remark: Ave	rage			
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)	Polar.		
4874.00	39.13	36.32	6.85	41.84	40.46	54.00	-13.54	Vertical		
4874.00	43.53	36.32	6.85	41.84	44.86	54.00	-9.14	Horizontal		

Test mode: 80	02.11n(H20)		Test char	nnel: Highest		Remark: 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)	Polar.
4924.00	50.14	36.58	6.89	41.86	51.75	74.00	-22.25	Vertical
4924.00	51.42	36.58	6.89	41.86	53.03	74.00	-20.97	Horizontal
Test mode: 80	02.11n(H20)		Test char	nnel: Highest		Remark: Ave	rage	
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)	Polar.
4924.00	43.25	36.58	6.89	41.86	44.86	54.00	-9.14	Vertical
4924.00	44.36	36.58	6.89	41.86	45.97	54.00	-8.03	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.