

Report No: CCISE170903302

FCC REPORT

(BLE)

Applicant: NEXUS TELECOM SERVICES (HK) LIMITED

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

Equipment Under Test (EUT)

Product Name: Smart Phone

Model No.: GO1402S

Trade mark: GO-Mobile

FCC ID: 2AHDFGO1402S

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

Date of sample receipt: 30 Jun., 2017

Date of Test: 30 Jun., to 07 Jul., 2017

Date of report issued: 08 Jul., 2017

Test Result: PASS *

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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^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	08 Jul., 2017	Original

Tested by:	Zora Lee	Date:	08 Jul., 2017	
	Test Engineer			
Reviewed by:	Ryan.Lee	Date:	08 Jul., 2017	
	Project Engineer			



3 Contents

			Page
1	cov	ER PAGE	1
2	VER	SION	2
3		TENTS	
4		T SUMMARY	
5		ERAL INFORMATION	
5			
	5.1	CLIENT INFORMATION	
	5.2	GENERAL DESCRIPTION OF E.U.T.	
	5.3	TEST ENVIRONMENT AND MODE	
	5.4	MEASUREMENT UNCERTAINTY	
	5.5	LABORATORY FACILITY	
	5.6	LABORATORY LOCATION	
	5.7	TEST INSTRUMENTS LIST	8
6	TES	T RESULTS AND MEASUREMENT DATA	9
	6.1	ANTENNA REQUIREMENT:	9
	6.2	CONDUCTED EMISSION	10
	6.3	CONDUCTED OUTPUT POWER	13
	6.4	OCCUPY BANDWIDTH	15
	6.5	POWER SPECTRAL DENSITY	
	6.6	BAND EDGE	20
	6.6.1		
	6.6.2		
	6.7	SPURIOUS EMISSION	
	6.7.1		
	6.7.2		
7	TES	T SETUP PHOTO	34
R	FUT	CONSTRUCTIONAL DETAILS	35





4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission 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 of Applicant:	R112, 11/F Hollywood Plaza, Mangkok, Kowloon Hong Kong	
Manufacturer	CHINO-E TECHNOLOGY (HONG KONG) CO., LTD.	
Address of Manufacturer:	ROOM 1907 19/F DOMINION CETRE 43-59 QUEEN'S ROAD EAST, WAN CHAI, HONG KONG	
Factory:	Shenzhen Shenan Times Electronic Co.,Ltd.	
Address of Factory:	FLOOR 2-4, BLDG B, Chunyang Industrial park, Zhugushi Road, Wulian Street, Longgang District, Shenzhen, China	

5.2 General Description of E.U.T.

Product Name:	Smart Phone
Model No.:	GO1402S
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-1700mAh
AC adapter:	Model: GO1402S
	Input: AC100-240V, 50/60Hz, 0.2A
	Output: DC 5.0V, 1000mAh



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2442MHz
The Highest channel	2480MHz



Report No: CCISE170903302

5.3 Test environment and mode

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	54 % RH			
Atmospheric Pressure:	1010 mbar			
Test mode:				
Operation 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. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Measurement Uncertainty

Items	Expanded Uncertainty (Confidence of 95%)
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)

5.5 Laboratory Facility

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

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 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

Website: http://www.ccis-cb.com

Tel: +86-755-23118282 Fax: +86-755-23116366 Email: info@ccis-cb.com

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



5.7 Test Instruments list

Rad	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	07-22-2017	07-21-2020		
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	02-25-2017	02-24-2018		
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	02-25-2017	02-24-2018		
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	02-25-2017	02-24-2018		
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	02-25-2017	02-24-2018		
6	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	02-25-2017	02-24-2018		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	02-25-2017	02-24-2018		
8	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	02-25-2017	02-24-2018		
9	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	02-25-2017	02-24-2018		
10	Loop antenna	Laplace instrument	RF300	EMC0701	02-25-2017	02-24-2018		
11	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
12	Coaxial Cable	N/A	N/A	CCIS0018	02-25-2017	02-24-2018		
13	Coaxial Cable	N/A	N/A	CCIS0020	02-25-2017	02-24-2018		

Con	Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	07-22-2017	07-21-2020	
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	02-25-2017	02-24-2018	
3	LISN	CHASE	MN2050D	CCIS0074	02-25-2017	02-24-2018	
4	Coaxial Cable	CCIS	N/A	CCIS0086	02-25-2017	02-24-2018	
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC Part 15 C Section 15.203 /247(c)

15.203 requirement:

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

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

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

E.U.T Antenna:

The BLE antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 1 dBi.



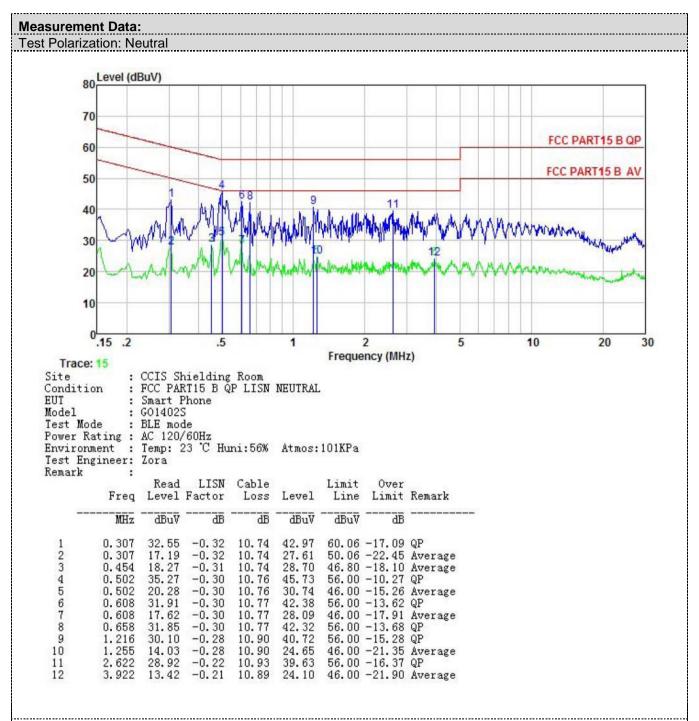




6.2 Conducted Emission

<u> </u>	Solidacted Elillosis	- 11						
	Test Requirement:	FCC Part 15 C Section 15.207						
	Test Method:	ANSI C63.10: 2013						
	Test Frequency Range:	150 kHz to 30 MHz						
	Class / Severity:	Class B						
	Receiver setup:	RBW=9kHz, VBW=30kHz						
	Limit:	Frequency range (MHz)	Eraguanav ranga (MHz) Limit (dBuV)					
		, , ,	Average					
		0.15-0.5	66 to 56*	56 to 46*				
		0.5-5	56	46				
		5-30	60	50				
		* Decreases with the logar						
	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:	Reference Plane						
		AUX Equipment Test table/Insulation Remarkc E.U.T. Equipment Under Tection Impedence Stable Test table height=0.8m	E.U.T EMI Receiver	ilter — AC power				
	Test Instruments:	Refer to section 5.7 for det	tails					
	Test mode:	Refer to section 5.3 for det	tails					
	Test results:	Passed						

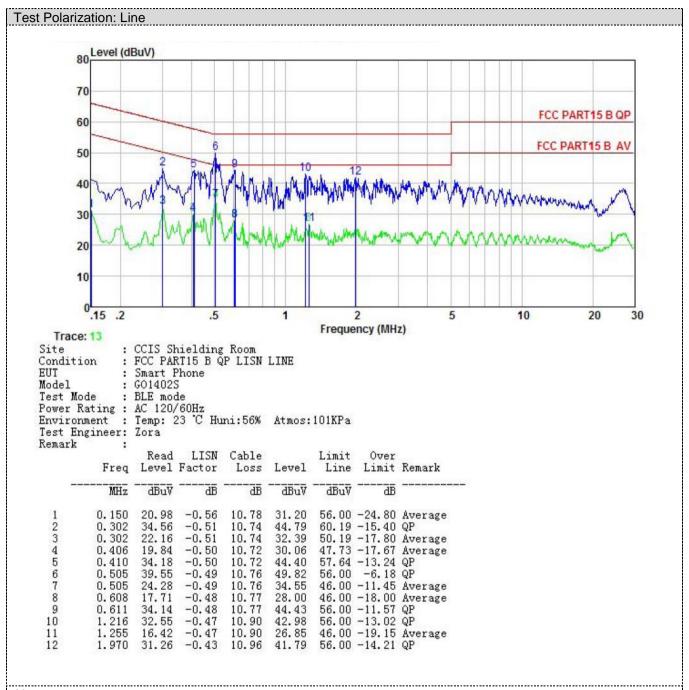




Notes:

- 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.





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

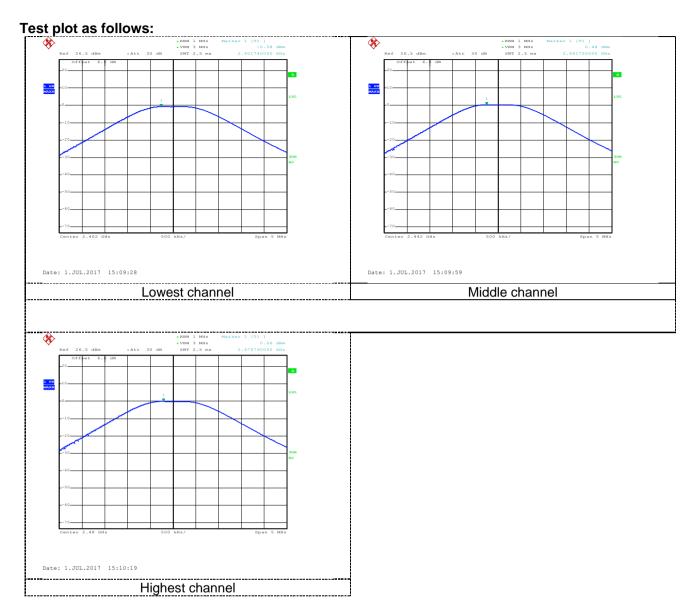
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 9.1.1					
Limit:	30dBm					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

Test CH		Maximum Conducted Output Power (dBm)	Limit(dBm)	Result	
	Lowest	-0.58			
	Middle	0.48	30.00	Pass	
	Highest	0.06			









6.4 Occupy Bandwidth

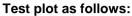
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 8.1				
Limit:	>500kHz				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

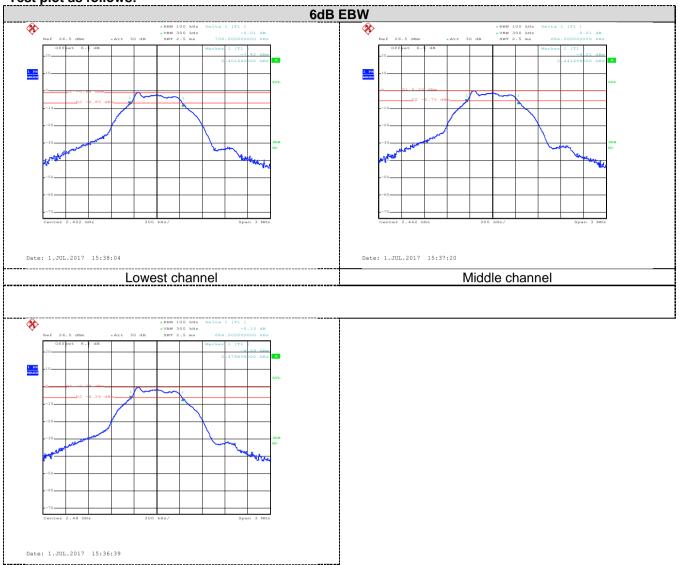
Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	0.708			
Middle	0.684	>500	Pass	
Highest	0.684			
Test CH	est CH 99% Occupy Bandwidth (MHz)		Result	
Lowest	Lowest 1.080			
Middle	1.086	N/A	N/A	
Highest	1.080			



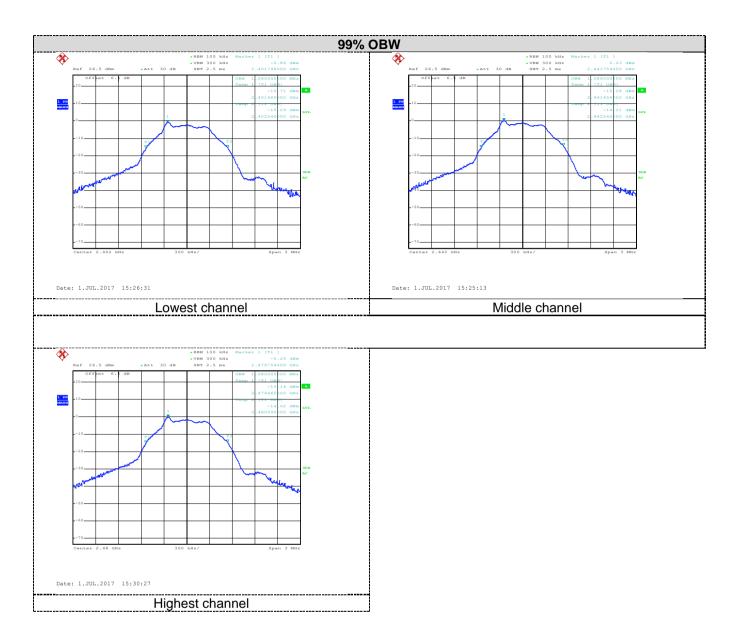






Highest channel







6.5 Power Spectral Density

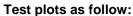
Test Requirement:	FCC Part 15 C Section 15.247 (e)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 10.2					
Limit:	8 dBm					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

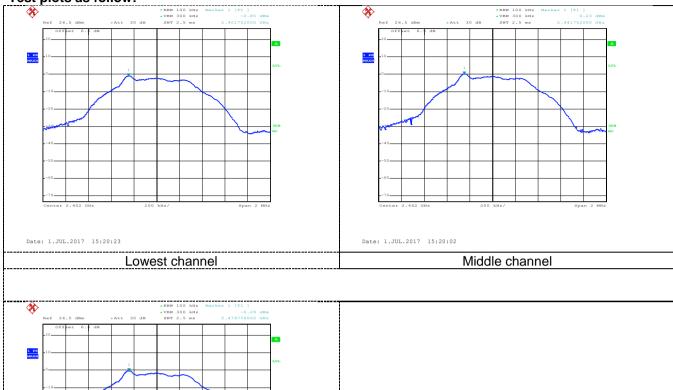
Measurement Data:

Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result	
Lowest	-0.85		Pass	
Middle	0.23	8.00		
Highest	-0.29			













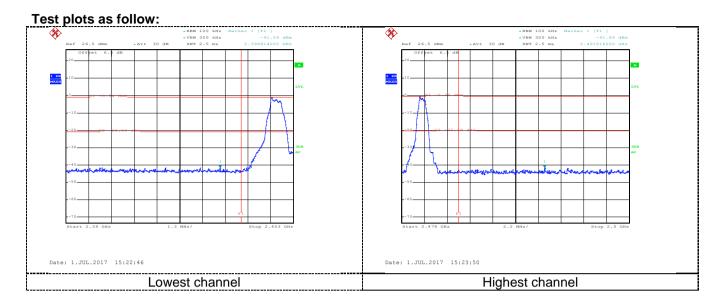
6.6 Band Edge

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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				







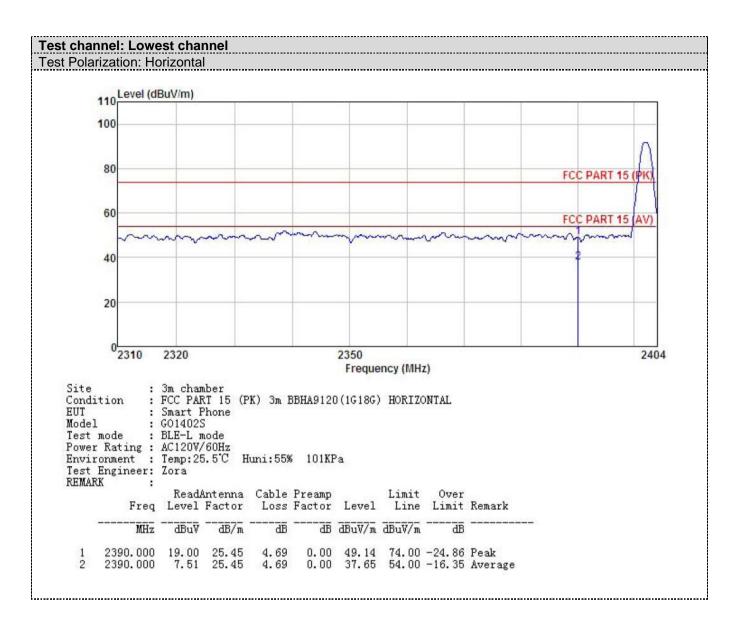


6.6.2 Radiated Emission Method

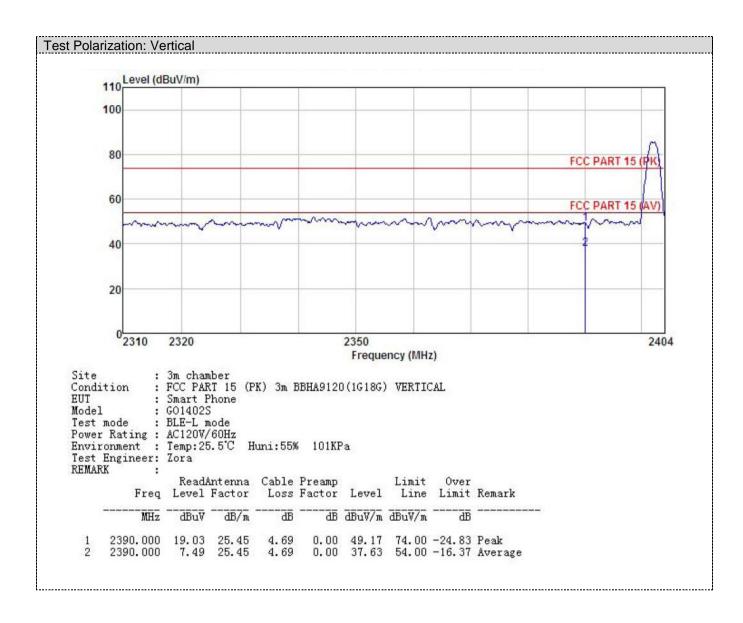
0.0.2	Radiated Ellission in	etilou						
	Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
	Test Method:	ANSI C63.10: 2013 and KDB558074 D01 DTS Meas Guidance v04 section 12.1						
	Test Frequency Range:	2.3GHz to 2.5GHz						
	Test site:	Measurement Distance: 3m						
	Receiver setup:	Frequency Detector RBW VBW Rer	mark					
		Above 1GHz Peak 1MHz 3MHz Peak	Value					
		RIVIS TIVIHZ SIVIHZ Averag	ge Value					
	Limit:	Frequency Limit (dBuV/m @3m) Remark						
		Above 1GHz 54.00 Average Value 74.00 Peak Value 74.00						
	Test potuni	 The EUT was placed on the top of a rotating table 1.5 meters the ground at a 3 meter camber. The table was rotated 360 d to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receive antenna, which was mounted on the top of a variable-height at tower. The antenna height is varied from one meter to four meters at the ground to determine the maximum value of the field strens Both horizontal and vertical polarizations of the antenna are smake the measurement. For each suspected emission, the EUT was arranged to its we case and then the antenna was tuned to heights from 1 meters and the rotatable was turned from 0 degrees to 360 c 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 10 dB low the limit specified, then testing could be stopped and the peak of the EUT would be reported. Otherwise the emissions that the have 10 dB margin would be re-tested one by one using peak peak or average method as specified and then reported in a casheet. 	egrees ing antenna bove gth. set to orst r to 4 degrees d er than k values did not k, quasi-					
	Test setup:	AE EUT Horn Antenna Tower Ground Reference Plane Test Receiver Pie- Amplifier Controller						
	Test Instruments:	Refer to section 5.7 for details						
	Test mode:	Refer to section 5.3 for details						
	Test results:	Passed						





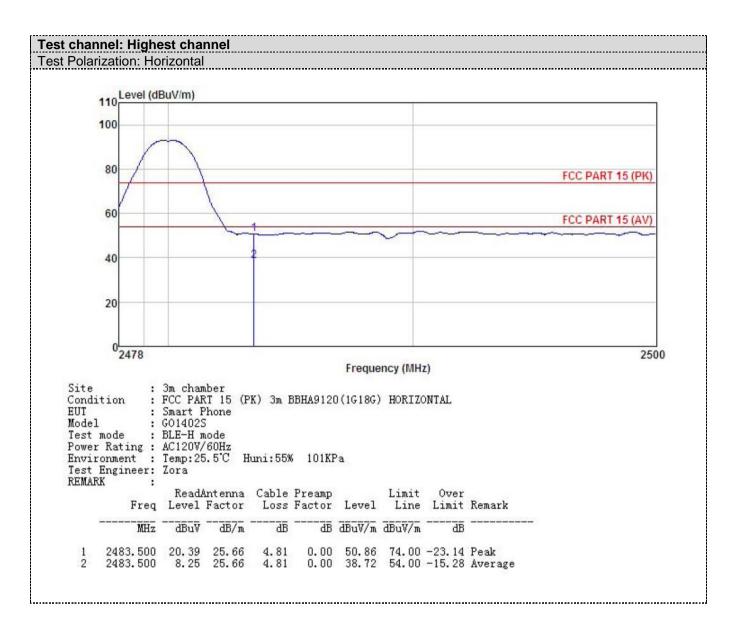




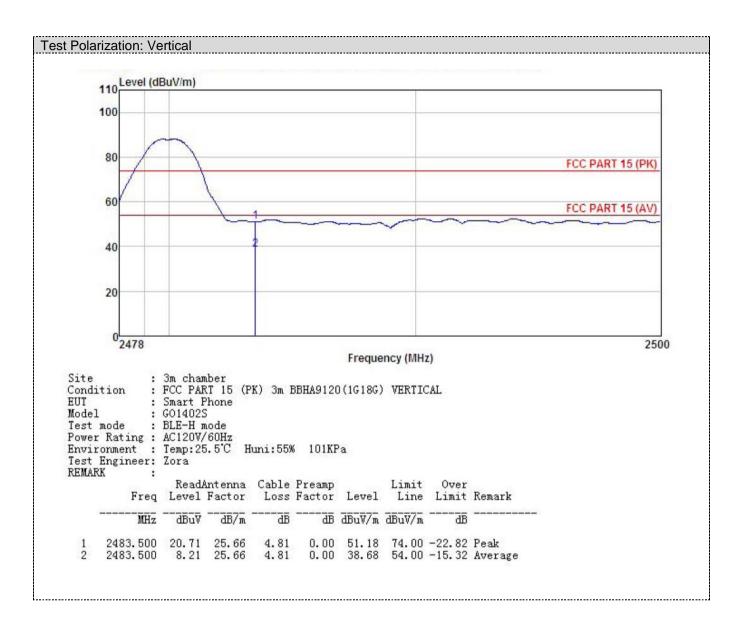














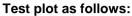
6.7 Spurious Emission

6.7.1 Conducted Emission Method

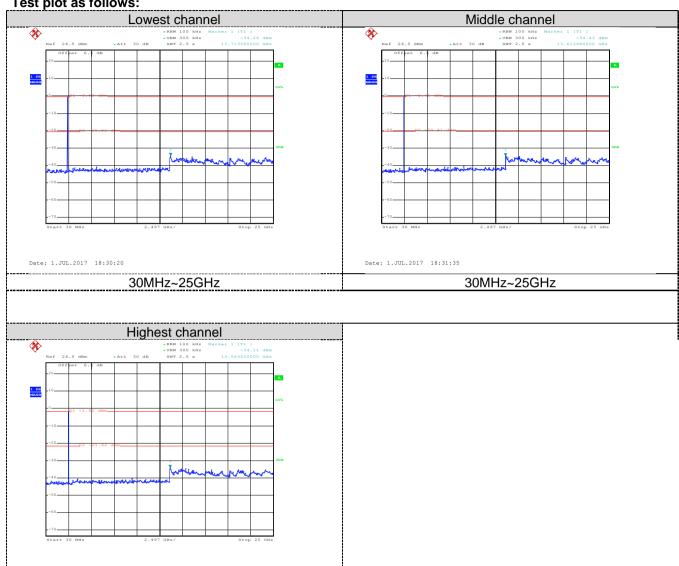
Test Requirement:	FCC Part 15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 11				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced 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.				
Test setup:					
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				







Date: 1.JUL.2017 18:33:25



30MHz~25GHz



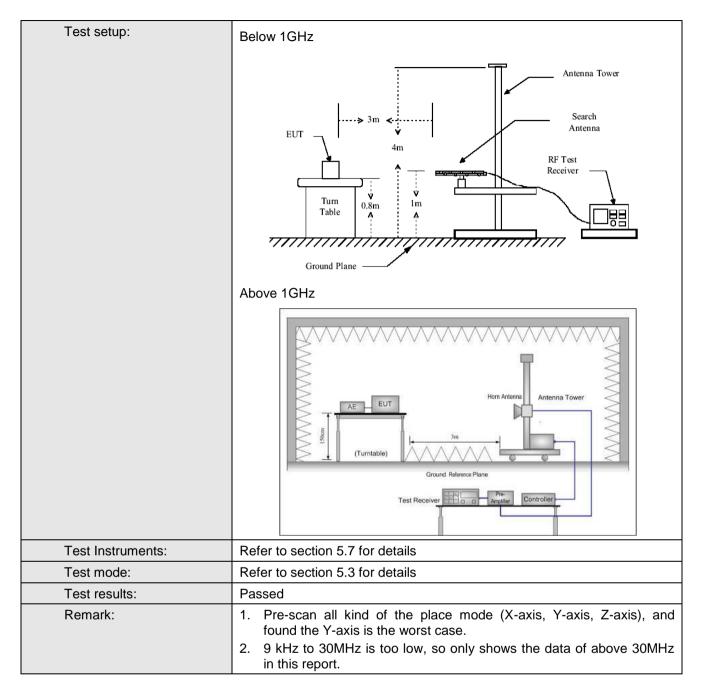


6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	9KHz to 25GHz							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency Detector RBW VI					W	Remark	
·	30MHz-1GHz	Quasi-pe	eak	120KHz	300l	KHz Quasi-peak Value		
	Above 1GHz	Peak		1MHz	3MHz		Peak Value	
	Above TOTIZ	RMS		1MHz	3M	Hz	Average Value	
Limit:	Frequency		Lim	nit (dBuV/m @	(3m)		Remark	
	30MHz-88M			40.0			uasi-peak Value	
	88MHz-216N			43.5			uasi-peak Value	
	216MHz-960			46.0			uasi-peak Value	
	960MHz-1G	Hz		54.0			uasi-peak Value	
	Above 1GF	lz -	54.0					
	4 7 5 5		74.0					
Test Procedure:	Above 1GHz							

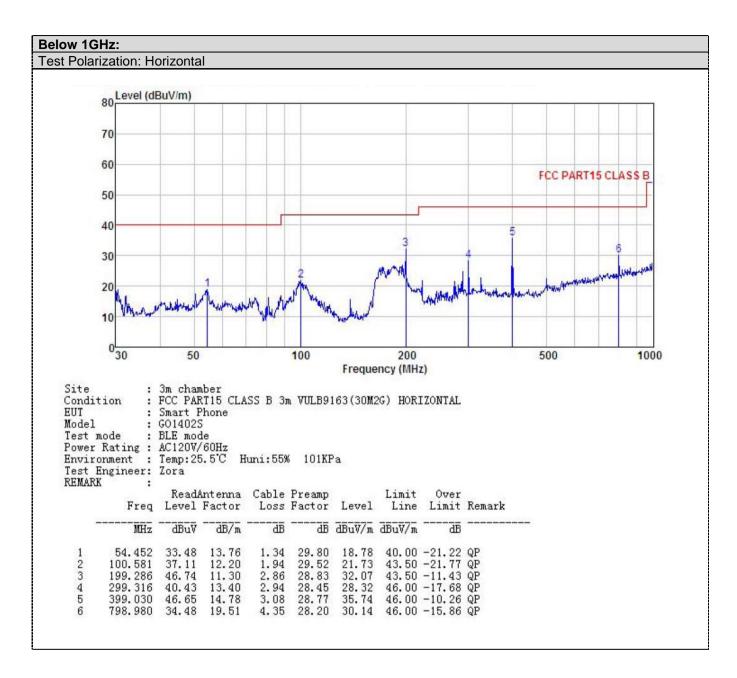




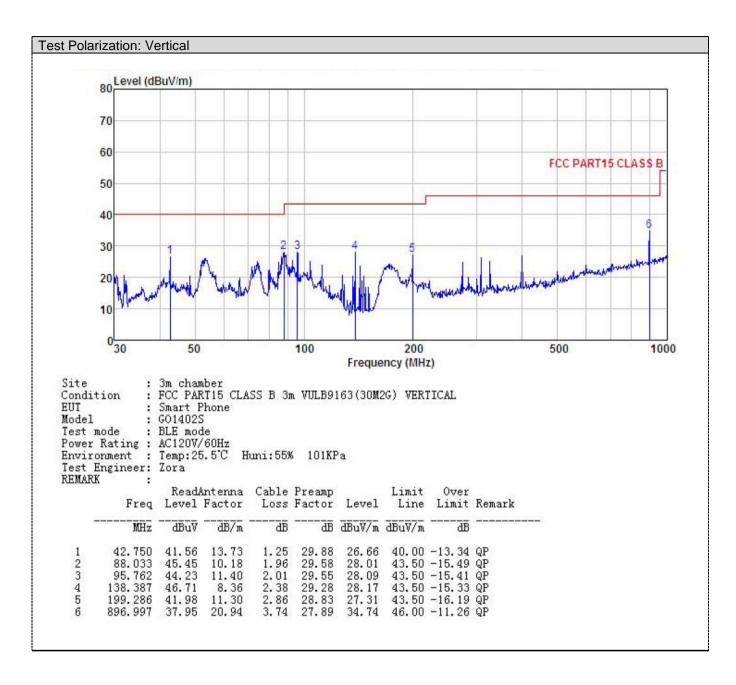














Above 1GHz

Test channel: Lowest channel								
Peak Value								
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	47.37	35.99	6.80	41.81	48.35	74.00	-25.65	Vertical
4804.00	45.39	35.99	6.80	41.81	46.37	74.00	-27.63	Horizontal
			1	Average Valu	ıe			
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	38.55	35.99	6.80	41.81	39.53	54.00	-14.47	Vertical
4804.00	36.53	35.99	6.80	41.81	37.51	54.00	-16.49	Horizontal

Test channel: Middle channel												
Peak Value												
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				
4884.00	46.59	36.38	6.86	41.84	47.99	74.00	-26.01	Vertical				
4884.00	45.43	36.38	6.86	41.84	46.83	74.00	-27.17	Horizontal				
Average Value												
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				
4884.00	37.69	36.38	6.86	41.84	39.09	54.00	-14.91	Vertical				
4884.00	36.45	36.38	6.86	41.84	37.85	54.00	-16.15	Horizontal				

Test channel: Highest channel												
Peak Value												
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	45.50	36.71	6.91	41.87	47.25	74.00	-26.75	Vertical				
4960.00	45.17	36.71	6.91	41.87	46.92	74.00	-27.08	Horizontal				
Average Value												
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	36.76	36.71	6.91	41.87	38.51	54.00	-15.49	Vertical				
4960.00	36.34	36.71	6.91	41.87	38.09	54.00	-15.91	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.