

🧲 Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE171106302

FCC REPORT (BLE)

Applicant: Telecell Mobile (H.K) Ltd.

Address of Applicant: RM 801 Metro Ctr II, 21 Lam Hing Street Kln Bay Hongkong

Equipment Under Test (EUT)

Product Name: LTE smartphone

Model No.: TRIO F40LT

Trade mark: FIGO

FCC ID: 2ADX3F40LT

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

Date of sample receipt: 22 Nov., 2017

Date of Test: 22 Nov., to 07 Dec., 2017

Date of report issued: 08 Dec., 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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Version

Version No.	Date	Description
00	08 Dec., 2017	Original
01	25 Dec., 2017	Update Page 21-24

Tested by: Date: 08 Dec., 2017

08 Dec., 2017 Reviewed by: Date:

Project Engineer



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4 Test Summary

CFR 47	Result
.247 (c)	Pass
07	Pass
(b)(3)	Pass
(a)(2)	Pass
7 (e)	Pass
7(d)	Pass
5.209	Pass
	5.209 standard.



5 General Information

5.1 Client Information

Applicant:	Telecell Mobile (H.K) Ltd.		
Address:	RM 801 Metro Ctr II, 21 Lam Hing Street Kln Bay Hongkong		
Manufacturer/Factory:	Telecell Mobile (H.K) Ltd.		
Address:	RM 801 Metro Ctr II, 21 Lam Hing Street Kln Bay Hongkong		

5.2 General Description of E.U.T.

Product Name:	LTE smartphone
Floudel Name.	LTE Smartphone
Model No.:	TRIO F40LT
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	-0.4 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1300mAh
AC adapter with two	Model: TRIO F4OLT
plugs :	Input: AC100-240V, 50/60Hz, 150mA
	Output: DC 5.0V, 700mA

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. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest 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

Report No: CCISE171106302

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 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 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 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



5.8 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

5.9 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:

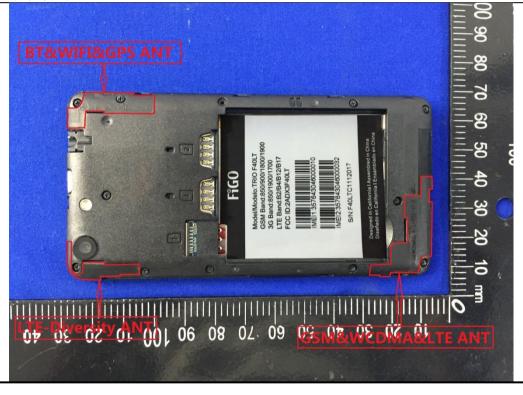
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 BLE antenna is an Internal Antenna which cannot replace by end-user, the best-case gain of the antenna is -0.4 dBi.







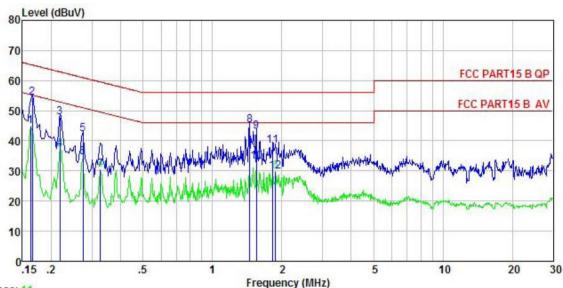
6.2 Conducted Emission

<u> </u>	Conductod Enhanced	/ 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)	Limit	(dBuV)			
			Quasi-peak	Average			
		0.15-0.5	66 to 56*	56 to 46*			
		0.5-5	56	46			
		5-30	ithm of the frequency	50			
	Test procedure	* Decreases with the logar 1. The E.U.T and simula		e main power through a			
	, oot proods.	 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:		nce Plane				
		AUX Equipment E.U Test table/Insulation pla	EMI Receiver	— AC power			
		Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
	Test Instruments:	Refer to section 5.9 for det	tails				
	Test mode:	Refer to section 5.3 for det	tails				
	Test results:	Passed					



Measurement Data:

Neutral:



Trace: 11 Site

: CCIS Shielding Room : FCC PART15 B QP LISN(RS) NEUTRAL : LTE smartphone : TRIO F40LT Condition

EUT Model Test Mode : BLE Mode Power Rating: AC 120/60Hz

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

Test Engineer: Carey Remark :

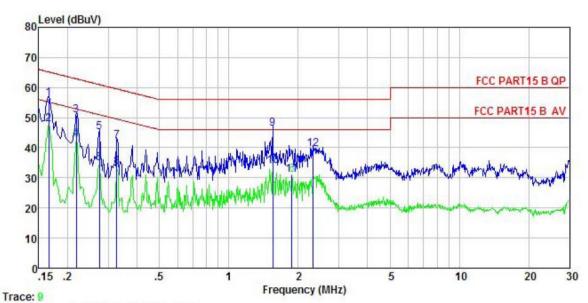
nemark								
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
<u> 200</u>	MHz	—dBu₹	<u>dB</u>	<u>d</u> B	dBu∜	—dBu₹		
1	0.162	33.37	0.70	10.77	44.84	55.34	-10.50	Average
2	0.166	42.78	0.70	10.77	54.25	65.16	-10.91	QP
3	0.219	36.45	0.66	10.76	47.87	62.88	-15.01	QP
4	0.219	25.71	0.66	10.76	37.13	52.88	-15.75	Average
1 2 3 4 5 6 7 8 9	0.274	30.71	0.65	10.74	42.10	60.98	-18.88	QP
6	0.274	23.09	0.65	10.74	34.48	50.98	-16.50	Average
7	0.327	18.97	0.63	10.73	30.33	49.53	-19.20	Average
8	1.449	33.66	0.67	10.92	45.25	56.00	-10.75	QP
9	1.552	31.45	0.67	10.93	43.05	56.00	-12.95	QP
10	1.552	21.40	0.67	10.93	33.00	46.00	-13.00	Average
11	1.829	26.89	0.67	10.95	38.51	56.00	-17.49	QP
12	1.878	18.13	0.67	10.95	29.75	46.00	-16.25	Average

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:



Site

: CCIS Shielding Room : FCC PART15 B QP LISN(RS) LINE Condition

EUT : LTE smartphone Model TRIO F40LT Test Mode: BLE Mode
Power Rating: AC 120/60Hz
Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Carey

Remark

OMALA	Freq	Read Level	LISN Factor	Cable Loss		Limit Line	Over Limit	Remark
	MHz	dBu∜	dB	dB	dBu₹	dBu∀	dB	
1	0.166	44.80	0.71	10.77	56.28	65.16	-8.88	QP
2	0.166	36.47	0.71	10.77	47.95	55.16	-7.21	Average
2	0.219	39.37	0.73	10.76	50.86	62.88	-12.02	QP
4	0.219	31.17	0.73	10.76	42.66	52.88	-10.22	Average
4 5 6 7	0.274	33.66	0.74	10.74	45.14	60.98	-15.84	QP
6	0.274	23.40	0.74	10.74	34.88	50.98	-16.10	Average
	0.327	30.83	0.75	10.73	42.31	59.53	-17.22	QP
8 9	0.327	22.09	0.75	10.73	33.57	49.53	-15.96	Average
9	1.552	34.62	0.78	10.93	46.33	56.00	-9.67	QP
10	1.552	22.35	0.78	10.93	34.06	46.00	-11.94	Average
11	1.878	19.36	0.78	10.95	31.09	46.00	-14.91	Average
12	2.309	27.93	0.78	10.95	39.66	56.00	-16.34	QP

- 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

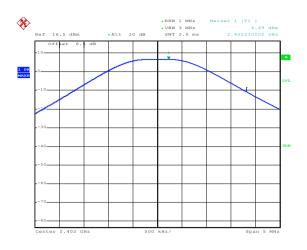
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)						
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 9.1.1						
Limit:	30dBm						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.9 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						

Measurement Data:

Mcasarcinent Data.			
Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	6.69		
Middle	6.99	30.00	Pass
Highest	7.05		

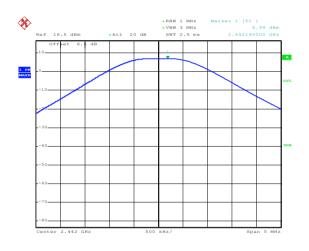


Test plot as follows:



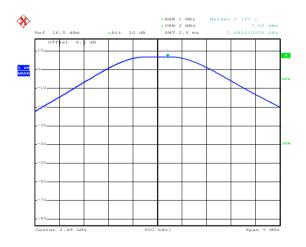
Date: 29.NOV.2017 17:37:02

Lowest channel



Date: 29.NOV.2017 17:38:11

Middle channel



Date: 29.NOV.2017 17:39:37

Highest channel



6.4 Occupy Bandwidth

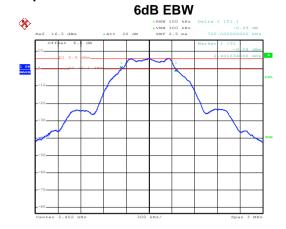
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)					
Test Method:	NSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 ection 8.1					
Limit:	>500kHz					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result
Lowest	0.720		
Middle	0.738	>500	Pass
Highest	0.726		
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result
Lowest	1.056		
Middle	1.044	N/A	N/A
Highest	1.044		

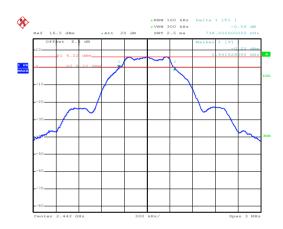


Test plot as follows:



Date: 29.NOV.2017 18:17:37

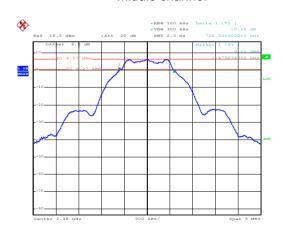
Lowest channel



Date: 29.NOV.2017 18:20:04

Date: 29.NOV.2017 17:44:58

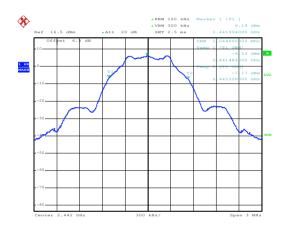
Middle channel



Highest channel

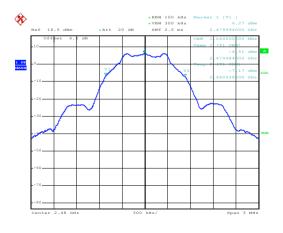
Date: 29.NOV.2017 19:07:37

Lowest channel



Date: 29.NOV.2017 19:05:02

Middle channel



Date: 29.NOV.2017 17:42:33

Highest channel



6.5 Power Spectral Density

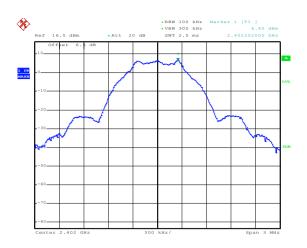
Test Requirement:	FCC Part 15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 10.2
Limit:	8 dBm
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result
Lowest	6.40		
Middle	6.22	8.00	Pass
Highest	6.31		

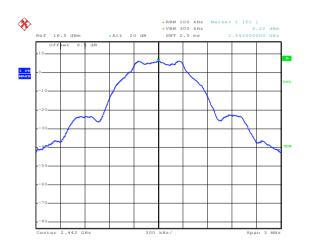


Test plots as follow:



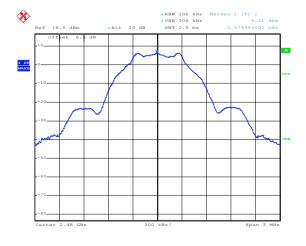
Date: 29.NOV.2017 14:51:09

Lowest channel



Date: 29.NOV.2017 18:25:54

Middle channel



Date: 29.NOV.2017 18:26:28

Highest channel



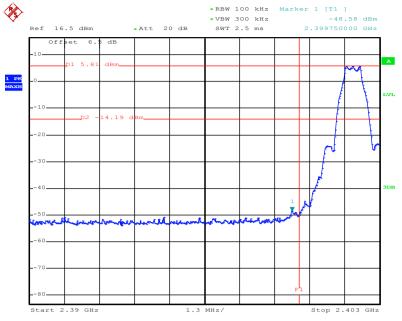
6.6 Band Edge

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 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 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

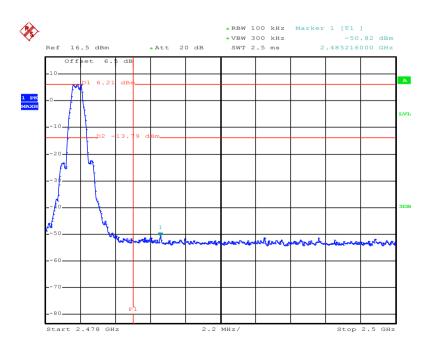


Test plots as follow:



Date: 29.NOV.2017 18:48:34

Lowest channel



Date: 29.NOV.2017 18:52:16

Highest channel



6.6.2 Radiated Emission Method

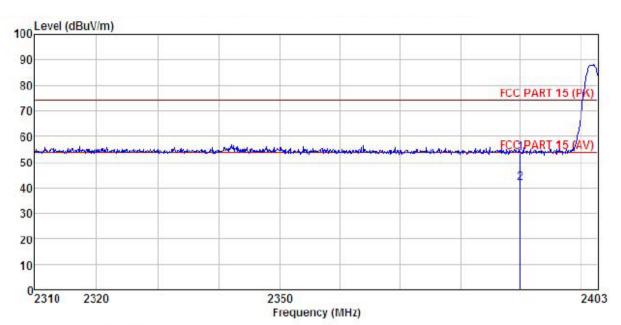
6.6.2	5.2 Radiated Emission Method							
	Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
	Test Method:	ANSI C63.10: 2013 and KDB558074 D01 DTS Meas Guidance v04 section 12.1						
	Test Frequency Range:	2.3GHz to 2.5GHz						
	Test Distance:	3m						
	Receiver setup:	Frequency	Detecto	or	RBW	V	/BW	Remark
		Above 1GHz Peak RMS			1MHz	3	MHz	Peak Value
					1MHz		MHz	Average Value
	Limit:	Frequer	ncy	Lin	nit (dBuV/m @3	Bm)		Remark
		Above 1GHz		54.00 74.00				verage Value Peak Value
	Test Procedure:	 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 10 dB 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 10 dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet. 						5 meters above ed 360 degrees ce-receiving e-height antenna meters above eld strength. In a are set to d to its worst in 1 meter to 4 is to 360 degrees inction and 0 dB lower than I the peak values ons that did not sing peak, quasi-
	Test setup:	AE umgs	Test Re	E	Horn Antenna Reference Plane Pre- Amplifier Control	Antenna T	ower	
	Test Instruments:	Refer to section	on 5.9 for c	letail	s			
	Test mode:	Refer to section	on 5.3 for c	letail	S			
	Test results:	Passed						





Test channel: Lowest

Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1618G) HORIZONTAL
EUT : LTE smartphone
Model : TRIO F40LT
Test mode : BLE-L mode
Power Rating : AC120V / 60Hz
Environment : Temp: 25.5°C Huni: 55%

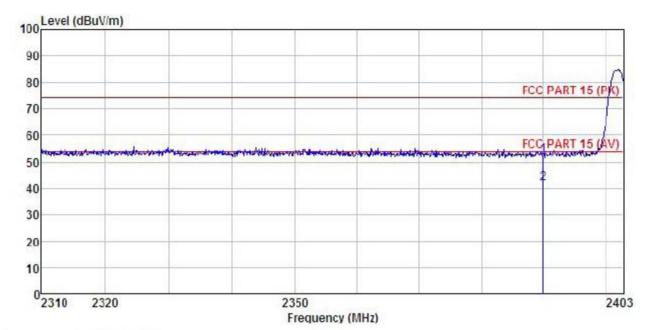
Test Engineer: Carey REMARK :

	Freq		Antenna Factor						
2	NHz	dBu∜	dB/m	<u>db</u>	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
	2390.000 2390.000								





Vertical:



Site : 3m chamber

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

: LTE smartphone

Model : TRIO F40LT

Test mode : BLE-L mode

Power Rating : AC120V / 60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

REMARK :

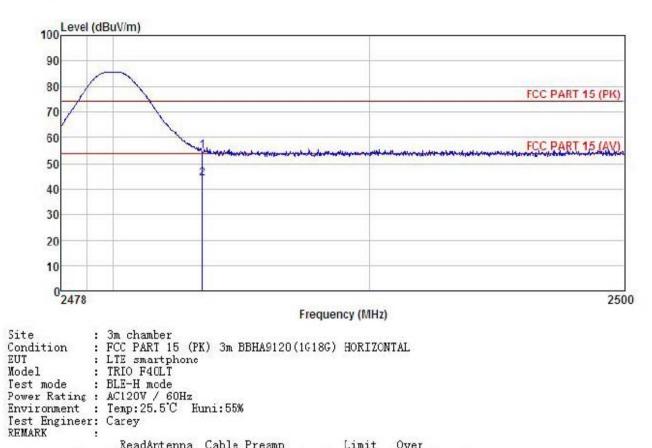
	Freq		Antenna Factor						
1	MHz	dBu∇	$-\overline{dB}/\overline{m}$	<u>dB</u>	dB	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
	2390.000 2390.000								





Test channel: Highest

Horizontal:

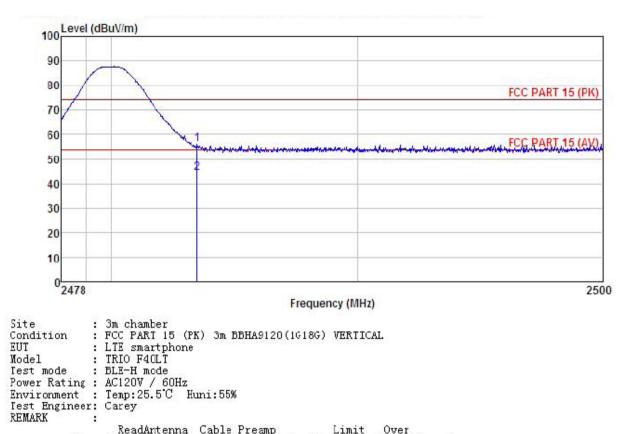


1 2

IAN			Antenna Factor			Limit Line		Remark	
	MHz	—dBu∀		 <u>dB</u>	$\overline{dB} \overline{uV/m}$	dBuV/m	<u>db</u>		_
	2483.500 2483.500				54.49 43.84				



Vertical:



IRMA										
			Ant enna							
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
2	MHz	dBu∜	— <u>dB</u> /m		<u>d</u> B	$\overline{dB}\overline{uV/m}$	dBuV/m	<u>dB</u>		
1	2483.500	25.63	25.66	4.81	0.00	56.10	74.00	-17.90	Peak	
2	2483.500	13, 72	25.66	4.81	0.00	44.19	54.00	-9.81	Average	



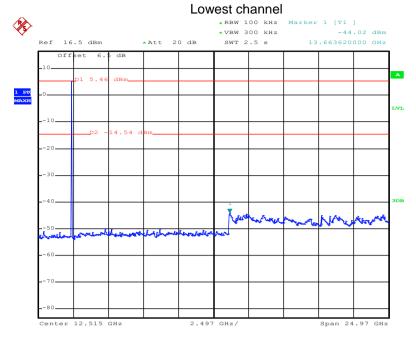
6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:						
rest 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:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Test Instruments: Refer to section 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

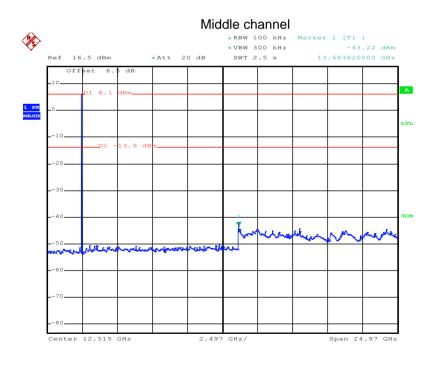


Test plot as follows:



Date: 29.NOV.2017 19:10:30

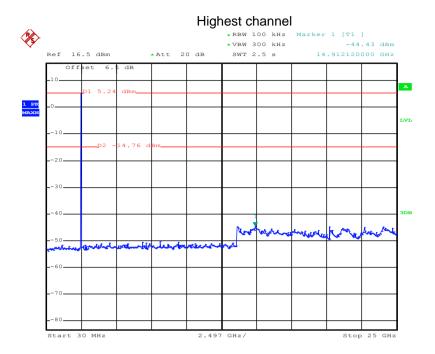
30MHz~25GHz



Date: 29.NOV.2017 19:13:13

30MHz~25GHz





Date: 29.NOV.2017 18:42:13

30MHz~25GHz



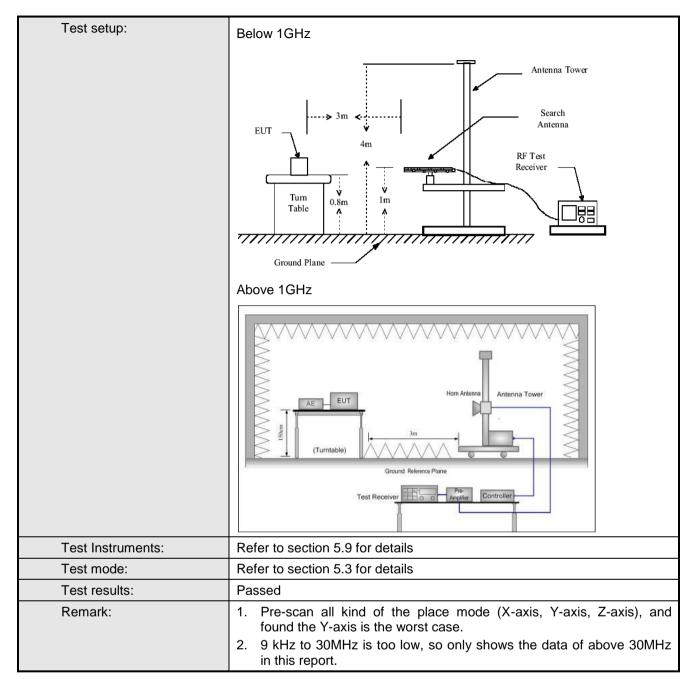


6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.10:20)13						
Test Frequency Range:	9kHz to 25GHz							
Test Distance:	3m							
Receiver setup:	Frequency	Detector		RBW VBV		W	Remark	
,	30MHz-1GHz	Quasi-pe	eak	120KHz	300k	KHz	Quasi-peak Value	
	Above 1GHz	Peak		1MHz	3M		Peak Value	
Limit:	Frequency	RMS		1MHz nit (dBuV/m @	3M	HZ	Average Value Remark	
Littiit.	30MHz-88M		LIII	40.0	3111)	0	luasi-peak Value	
	88MHz-216N			43.5			luasi-peak Value	
	216MHz-960I			46.0			luasi-peak Value	
	960MHz-1G	Hz		54.0		Quasi-peak Value		
	Above 1GH	17	54.0			Average Value		
			74.0		Peak Value			
Test Procedure:	Above 1(iHz							



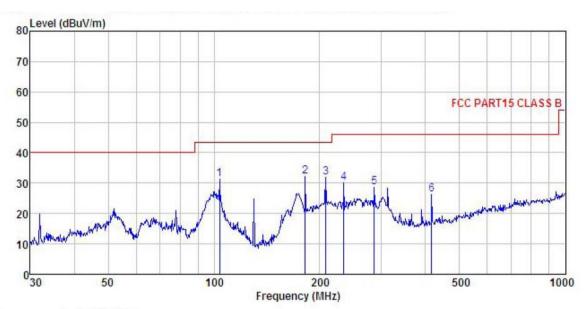






Below 1GHz:

Horizontal:



Site

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

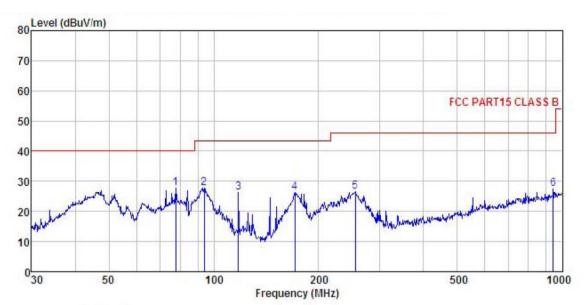
: LTE smartphone

Model : TRIO F40LT
Test mode : BLE mode
Power Rating : AC120V / 60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
REMARK :

Limit Over Line Limit Remark
dBuV/m dB
43.50 -12.21 QP
43.50 -11.33 QP
43.50 -11.63 QP
46.00 -15.82 QP
46.00 -17.25 QP
46.00 -19.78 QP



Vertical:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) VERTICAL
EUT : LTE smartphone
Model : TRIO F40LT
Test mode : BLE mode
Power Rating : AC120V / 60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey

Test Engineer: Carey REMARK :

v_{INTUTAL}									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
_	MHz	dBu∜		<u>dB</u>	<u>dB</u>	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1	77.865	47.03	8.84	1.64	29.66	27.85	40.00	-12.15	QP
2	93.768	44.08	11.13	2.02	29.56	27.67	43.50	-15.83	QP
3	117.773	42.98	10.64	2.14	29.40	26.36	43.50	-17.14	QP
4	170.793	43.51	9.00	2.66	29.04	26.13	43.50	-17.37	QP
5	254.728	39.88	12.27	2.82	28.53	26.44	46.00	-19.56	QP
6	942, 131	29.59	21.42	4.13	27, 75	27.39	46.00	-18.61	OP



Above 1GHz

Т	:	Lo	west	Level:		Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	46.54	35.99	6.80	41.81	47.52	74.00	-26.48	Vertical
4804.00	47.38	35.99	6.80	41.81	48.36	74.00	-25.64	Horizontal
Т	est 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	36.40	35.99	6.80	41.81	37.38	54.00	-16.62	Vertical
4804.00	37.13	35.99	6.80	41.81	38.11	54.00	-15.89	Horizontal

Т	:	Mi	Middle Leve		/el:		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
4884.00	47.11	36.38	6.86	41.84	48.51	74.00	-25.49	Vertical
4884.00	45.99	36.38	6.86	41.84	47.39	74.00	-26.61	Horizontal
Т	est channel	:	Middle		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	37.57	36.38	6.86	41.84	38.97	54.00	-15.03	Vertical
4884.00	35.97	36.38	6.86	41.84	37.37	54.00	-16.63	Horizontal

Т	•	Hiç	ghest	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	45.66	36.71	6.91	41.87	47.41	74.00	-26.59	Vertical
4960.00	47.59	36.71	6.91	41.87	49.34	74.00	-24.66	Horizontal
Т	est 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	35.96	36.71	6.91	41.87	37.71	54.00	-16.29	Vertical
4960.00	37.85	36.71	6.91	41.87	39.60	54.00	-14.40	Horizontal

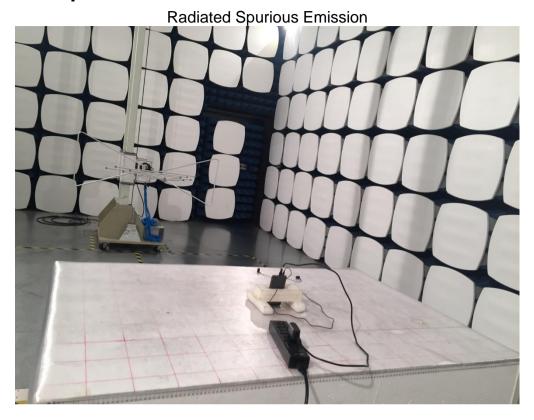
Remark:

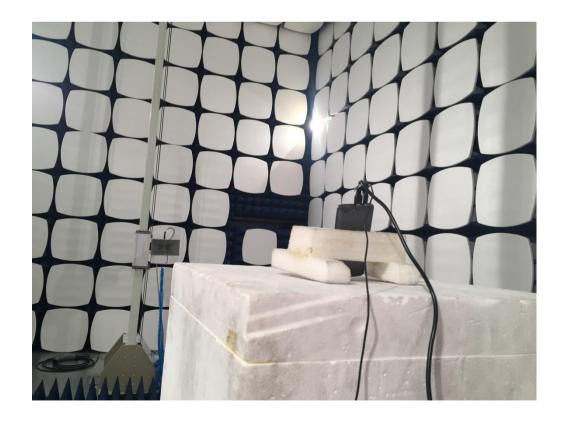
- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





7 Test Setup Photo

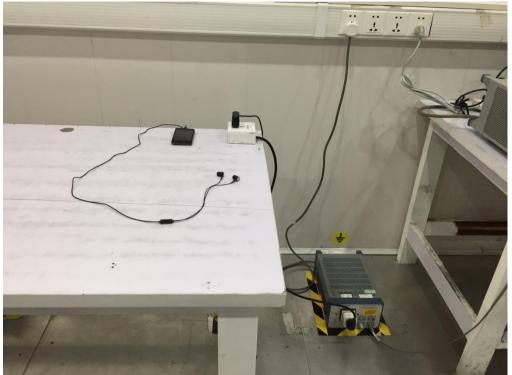
















8 EUT Constructional Details

Reference to the test report No. CCISE171106301.

----End of report-----