

## Global United Technology Services Co., Ltd.

Report No.: GTSE15110214004

# FCC Report (Bluetooth)

Applicant: Sky Phone LLC

Address of Applicant: 1348 Washington Av. Suite 350 Miami Beach, Florida 33139

**United States** 

**Equipment Under Test (EUT)** 

Product Name: Smart Phone

Model No.: Elite 5.5L

Trade mark: Sky Devices

FCC ID: 2ABOSELITE55L

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014

Date of sample receipt: November 24, 2015

**Date of Test:** November 25 - December 01, 2015

Date of report issued: December 02, 2015

Test Result: PASS \*

Authorized Signature:

Robinson Lo 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 GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



### 2 Version

Version No.	Date	Description
00	December 02, 2015	Original

Prepared By:	Edward.Pan	Date:	December 02, 2015
	Project Engineer		
Check By:	hank. you	Date:	December 02, 2015
	Reviewer		



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## 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.4:2009

#### **Measurement Uncertainty**

· · · · · · · · · · · · · · · · · · ·						
Test Item	Frequency Range	Measurement Uncertainty	Notes			
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)			
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)			
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)			
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)			
Note (1): The measurement unce	Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.					

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### **5** General Information

### 5.1 Client Information

Applicant:	Sky Phone LLC
Address of Applicant:	1348 Washington Av. Suite 350 Miami Beach, Florida 33139 United States
Manufacturer/Factory:	Shenzhen Konka Telecommunications Technology Co., Ltd.
Address of Manufacturer/Factory:	No.9008 Shennan Road, Overseas Chinese Town, ShenZhen, Guangdong, China

### 5.2 General Description of EUT

Product Name:	Smart Phone
Model No.:	Elite 5.5L
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	PIFA antenna
Antenna Gain:	1.0dBi
Power Supply:	Adapter Model No.: U0B2E0A050100 Input: AC 100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 1.0A or DC 3.7V Li-ion Battery



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
• !	. !	• !	. !	• !	• !	. !	. !
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	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	2440MHz
The Highest channel	2480MHz



#### 5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

### 5.4 Description of Support Units

None

#### 5.5 Test Facility

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

#### • FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

#### • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

#### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480 Fax: 0755-27798960



### 6 Test Instruments list

Radi	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Jun. 30 2015	Jun. 29 2016		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jun. 30 2015	Jun. 29 2016		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jun. 30 2015	Jun. 29 2016		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	Jun. 26 2015	Jun. 25 2016		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jun. 30 2015	Jun. 29 2016		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jun. 30 2015	Jun. 29 2016		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Jun. 26 2015	Jun. 25 2016		
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016		

Cond	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Jun. 30 2015	Jun. 29 2016		
2	<b>EMI Test Receiver</b>	Rohde & Schwarz	ESCS30	GTS223	Jun. 30 2015	Jun. 29 2016		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jun. 30 2015	Jun. 29 2016		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jun. 30 2015	Jun. 29 2016		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jun. 30 2015	Jun. 29 2016		
6	Coaxial Cable	GTS	N/A	GTS227	Jun. 30 2015	Jun. 29 2016		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

Gen	General used equipment:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016		



### 7 Test results and Measurement Data

### 7.1 Antenna requirement

**Standard requirement:** FCC Part15 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 antenna is PIFA antenna, the best case gain of the antenna is 1dBi





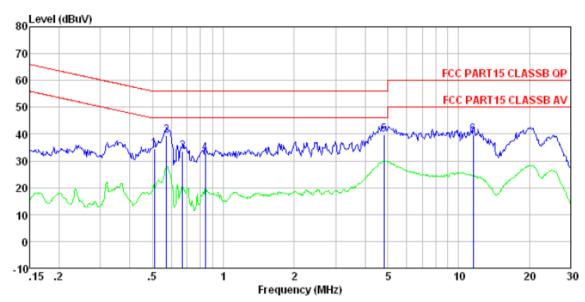
### 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.4:2009						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto					
Limit:	Frequency range (MHz)	Limit (c	dBuV)				
	, , ,	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
Toot ootun.	* Decreases with the logarithn	•					
Test setup:	Reference Plane		_				
	AUX Equipment  Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.6m						
Test procedure:	The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impe	n network (L.I.S.N.). Th	nis provides a				
	<ol> <li>The peripheral devices are LISN that provides a 50ohn termination. (Please refer to photographs).</li> </ol>	n/50uH coupling imped	dance with 50ohm				
	3. 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 C63.10:2009 on conducted measurement.						
Test Instruments:	Refer to section 6.0 for details	j.					
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						



#### Measurement data

Line:



Condition : FCC PART15 CLASSB QP LISN-2013 LINE

: 2140RF

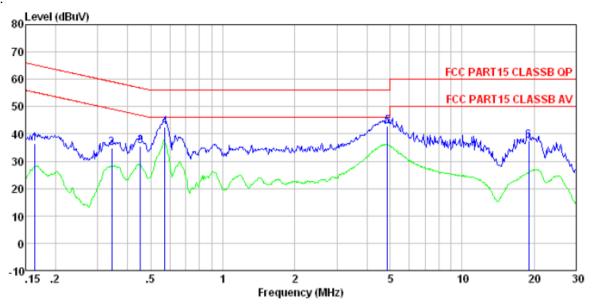
Job No. Test mode : Bluetooth 4.0 mode

Test Engineer: Rong

	Freq		LISN Factor				Over Limit	Remark
	MHz	dBu₹	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5	0.672 0.839	33.13 32.71	0.13 0.14 0.14	0.13 0.13	39. 37 33. 40 32. 98	56.00 56.00 56.00	-16.63 -22.60 -23.02	QP QP QP
6		39.60 39.20	0.21 0.36	0.15 0.20				-



#### Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Tob No. : 2140RF

Test mode : Bluetooth 4.0 mode

Test Engineer: Rong

	Freq		LISN Factor					Remark
	MHz	dBuV	d₿	dB	dBuV	dBuV	dB	
1	0.164	36.20	0.07	0.12	36.39	65.25	-28.86	QP
2 3	0.343	34.63	0.06	0.10	34.79	59.13	-24.34	QP
3	0.452	35.36	0.06	0.11	35.53	56.85	-21.32	QP
4	0.573	42.44	0.07	0.12	42.63	56.00	-13.37	QP
5	4.874	42.37	0.15	0.15	42.67	56.00	-13.33	QP
6	19.021	36.77	0.47	0.22	37.46	60.00	-22.54	QP

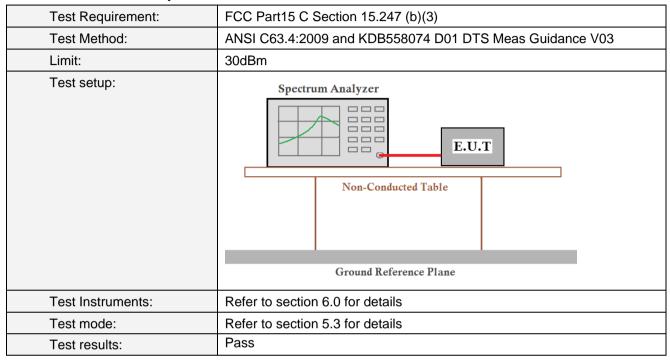
#### Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

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### 7.3 Conducted Output Power

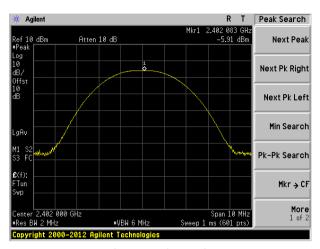


#### **Measurement Data**

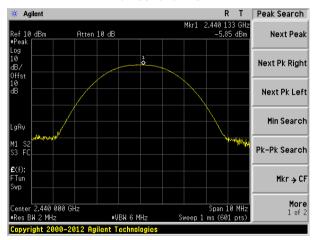
Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	-5.91		
Middle	-5.85	30.00	Pass
Highest	-5.57		



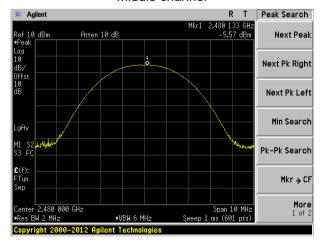
### Test plot as follows:



#### Lowest channel



#### Middle channel



Highest channel



#### 7.4 Channel Bandwidth

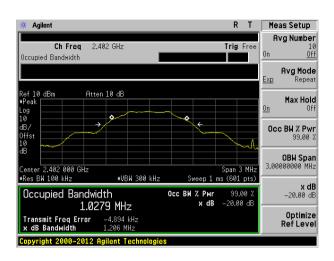
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)				
Test Method:	ANSI C63.4:2009 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	>500KHz				
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

#### **Measurement Data**

Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result	
Lowest	1.206			
Middle	1.206	>500	Pass	
Highest	1.203			



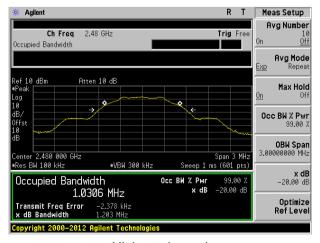
#### Test plot as follows:



#### Lowest channel



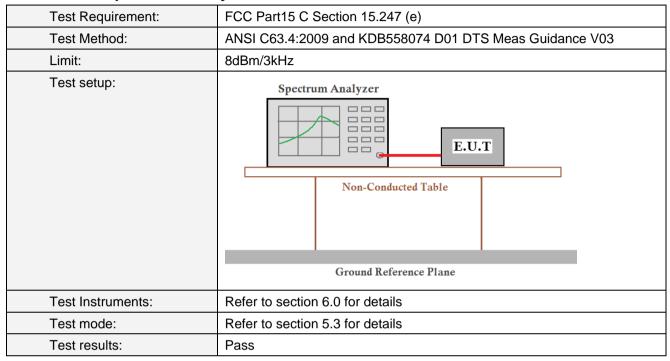
#### Middle channel



Highest channel



### 7.5 Power Spectral Density

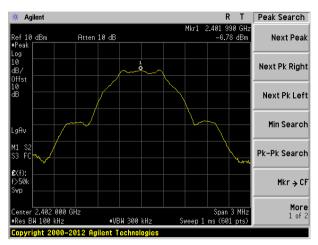


#### **Measurement Data**

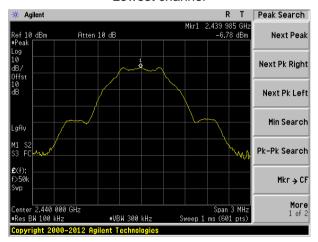
Test channel	Power Spectral Density (dBm)	Limit(dBm/3kHz)	Result	
Lowest	-6.78			
Middle	-6.78	8.00	Pass	
Highest	-6.19			



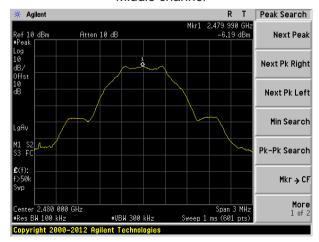
#### Test plot as follows:



#### Lowest channel



#### Middle channel



Highest channel

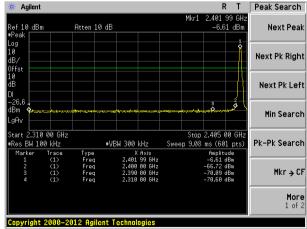


### 7.6 Band edges

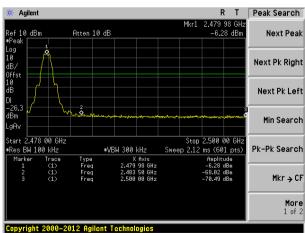
### 7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2009 and KDB558074 D01 DTS Meas Guidance V03				
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 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

### Test plot as follows:







Highest channel

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### 7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205					
Test Method:	ANSI C63.4:2009							
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.							
Test site:	Measurement D	istance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
·		Peak	1MHz	3MHz	Peak			
	Above 1GHz	RMS	1MHz	3MHz	Average			
Limit:	Freque	ncy	Limit (dBuV/	/m @3m)	Value			
	Above 1	GHz –	54.0		Average			
Test setup:			74.0	0	Peak			
	Antenna Tower  Horn Antenna  Spectrum  Analyzer  Amplifier							
Test Procedure:								
Test Instruments:	Refer to section							
Test mode:	Refer to section	5.3 for details						
Test results:	Pass							

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#### Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test channel:		Lowest

#### 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
2390.00	41.70	27.59	5.38	30.18	44.49	74.00	-29.51	Horizontal
2400.00	58.32	27.58	5.39	30.18	61.11	74.00	-12.89	Horizontal
2390.00	42.13	27.59	5.38	30.18	44.92	74.00	-29.08	Vertical
2400.00	60.23	27.58	5.39	30.18	63.02	74.00	-10.98	Vertical

#### 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
2390.00	32.51	27.59	5.38	30.18	35.30	54.00	-18.70	Horizontal
2400.00	43.68	27.58	5.39	30.18	46.47	54.00	-7.53	Horizontal
2390.00	32.37	27.59	5.38	30.18	35.16	54.00	-18.84	Vertical
2400.00	45.22	27.58	5.39	30.18	48.01	54.00	-5.99	Vertical

Test channel:	Highest
---------------	---------

#### 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
2483.50	43.66	27.53	5.47	29.93	46.73	74.00	-27.27	Horizontal
2500.00	43.06	27.55	5.49	29.93	46.17	74.00	-27.83	Horizontal
2483.50	44.31	27.53	5.47	29.93	47.38	74.00	-26.62	Vertical
2500.00	43.94	27.55	5.49	29.93	47.05	74.00	-26.95	Vertical

#### 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
2483.50	35.33	27.53	5.47	29.93	38.40	54.00	-15.60	Horizontal
2500.00	33.50	27.55	5.49	29.93	36.61	54.00	-17.39	Horizontal
2483.50	36.44	27.53	5.47	29.93	39.51	54.00	-14.49	Vertical
2500.00	33.32	27.55	5.49	29.93	36.43	54.00	-17.57	Vertical

#### 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.

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### 7.7 Spurious Emission

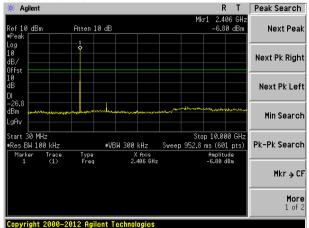
### 7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2009 and KDB558074 D01 DTS Meas Guidance V03						
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 6.0 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						



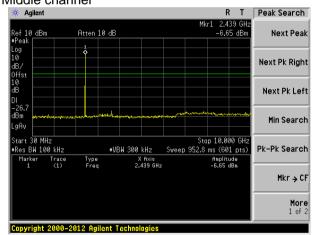
#### Test plot as follows:

#### Lowest channel



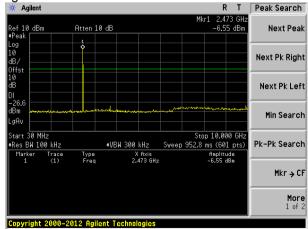
30MHz~10GHz

### Middle channel

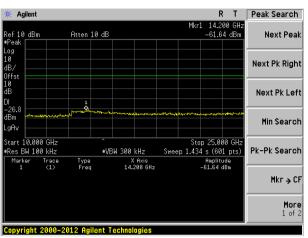


30MHz~10GHz

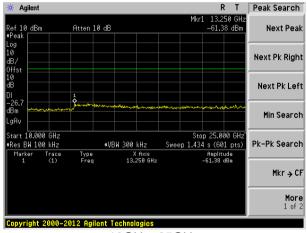
### Highest channel



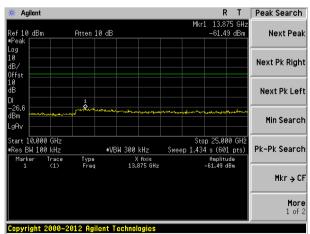
30MHz~10GHz



10GHz~25GHz



10GHz~25GHz



10GHz~25GHz



### 7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209									
Test Method:	ANSI C63.4:2009	ANSI C63.4:2009									
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz									
Test site:	Measurement Di	stance: 3m									
Receiver setup:	Frequency	Frequency Detector RBW VBW Value									
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak						
	Above 1GHz	Peak	1MHz	3MHz	Peak						
	Above IGHZ	RMS	1MHz	3MHz	Average						
Limit:	Frequer	су	Limit (dBuV	/m @3m)	Value						
	30MHz-88	MHz	40.0	0	Quasi-peak						
	88MHz-216	6MHz	43.5	0	Quasi-peak						
	216MHz-96	0MHz	46.0	0	Quasi-peak						
	960MHz-1	GHz	54.0	Quasi-peak							
	Above 10	211-7	54.0	Average							
	Above 10	JI 12	74.0	0	Peak						
Test setup:	Below 1GHz > 3π  Tum Table  0.8π A	4m		Antenna Tower Search Antenna RF Test Receiver	_						
	Ground Plane —	Ground Plane —									



	Antenna Tower  Horn Antenna  Turn Table  1.5m  Amplifier
Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table (0.8 meters below 1G and 1.5 meters above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna</li> </ol>
	tower.  3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

### Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



#### **Measurement Data**

### ■ Below 1GHz

- BCIOW I	<u> </u>							
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
34.16	44.21	14.31	0.60	30.08	29.04	40.00	-10.96	Vertical
48.33	46.64	15.35	0.75	30.01	32.73	40.00	-7.27	Vertical
93.11	49.61	14.50	1.14	29.73	35.52	43.50	-7.98	Vertical
174.42	36.53	11.29	1.71	29.30	20.23	43.50	-23.27	Vertical
373.31	26.72	16.54	2.73	29.62	16.37	46.00	-29.63	Vertical
731.92	24.29	21.19	4.20	29.20	20.48	46.00	-25.52	Vertical
64.89	40.45	12.71	0.90	29.89	24.17	40.00	-15.83	Horizontal
87.42	47.57	13.18	1.09	29.76	32.08	40.00	-7.92	Horizontal
104.17	48.84	14.78	1.23	29.67	35.18	43.50	-8.32	Horizontal
143.33	45.91	10.22	1.53	29.44	28.22	43.50	-15.28	Horizontal
183.84	45.75	12.00	1.76	29.26	30.25	43.50	-13.25	Horizontal
684.75	31.80	20.75	4.04	29.21	27.38	46.00	-18.62	Horizontal



#### ■ Above 1GHz

Test channel	Test channel: Lowest							
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	37.57	31.78	8.60	32.09	45.86	74.00	-28.14	Vertical
7206.00	32.01	36.15	11.65	32.00	47.81	74.00	-26.19	Vertical
9608.00	31.63	37.95	14.14	31.62	52.10	74.00	-21.90	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	41.91	31.78	8.60	32.09	50.20	74.00	-23.80	Horizontal
7206.00	33.79	36.15	11.65	32.00	49.59	74.00	-24.41	Horizontal
9608.00	31.07	37.95	14.14	31.62	51.54	74.00	-22.46	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal
Average val	IIO.		•	•			•	•

Average var	uc.							
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	26.34	31.78	8.60	32.09	34.63	54.00	-19.37	Vertical
7206.00	20.66	36.15	11.65	32.00	36.46	54.00	-17.54	Vertical
9608.00	19.72	37.95	14.14	31.62	40.19	54.00	-13.81	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	30.59	31.78	8.60	32.09	38.88	54.00	-15.12	Horizontal
7206.00	22.85	36.15	11.65	32.00	38.65	54.00	-15.35	Horizontal
9608.00	19.48	37.95	14.14	31.62	39.95	54.00	-14.05	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

#### Remark:

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test channel	nel: Middle							
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	'     6//6	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	36.91	31.85	8.67	32.12	45.31	74.00	-28.69	Vertical
7320.00	31.57	36.37	11.72	31.89	47.77	74.00	-26.23	Vertical
9760.00	31.23	38.35	14.25	31.62	52.21	74.00	-21.79	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	41.11	31.85	8.67	32.12	49.51	74.00	-24.49	Horizontal
7320.00	33.29	36.37	11.72	31.89	49.49	74.00	-24.51	Horizontal
9760.00	30.62	38.35	14.25	31.62	51.60	74.00	-22.40	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	1 1 4041	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	25.81	31.85	8.67	32.12	34.21	54.00	-19.79	Vertical
7320.00	20.31	36.37	11.72	31.89	36.51	54.00	-17.49	Vertical
9760.00	19.41	38.35	14.25	31.62	40.39	54.00	-13.61	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	29.99	31.85	8.67	32.12	38.39	54.00	-15.61	Horizontal
7320.00	22.45	36.37	11.72	31.89	38.65	54.00	-15.35	Horizontal
9760.00	19.10	38.35	14.25	31.62	40.08	54.00	-13.92	Horizontal
12200.00	*					54.00		Horizontal
14640.00	*					54.00		Horizontal

#### Remark:

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<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test channel	l:				High	nest			
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB)	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	35.95	31.93	8.73	32.1	6	44.45	74.00	-29.55	Vertical
7440.00	30.93	36.59	11.79	31.7	8	47.53	74.00	-26.47	Vertical
9920.00	30.67	38.81	14.38	31.8	8	51.98	74.00	-22.02	Vertical
12400.00	*						74.00		Vertical
14880.00	*						74.00		Vertical
4960.00	39.96	31.93	8.73	32.1	6	48.46	74.00	-25.54	Horizontal
7440.00	32.56	36.59	11.79	31.7	8	49.16	74.00	-24.84	Horizontal
9920.00	29.96	38.81	14.38	31.8	8	51.27	74.00	-22.73	Horizontal
12400.00	*						74.00		Horizontal
14880.00	*						74.00		Horizontal
Average val	ue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB)	or .	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	25.06	31.93	8.73	32.1	6	33.56	54.00	-20.44	Vertical
7440.00	19.80	36.59	11.79	31.7	8	36.40	54.00	-17.60	Vertical
9920.00	18.96	38.81	14.38	31.8	8	40.27	54.00	-13.73	Vertical
12400.00	*						54.00		Vertical
14880.00	*						54.00		Vertical
4960.00	29.15	31.93	8.73	32.1	6	37.65	54.00	-16.35	Horizontal
7440.00	21.89	36.59	11.79	31.7	8	38.49	54.00	-15.51	Horizontal
9920.00	18.58	38.81	14.38	31.8	8	39.89	54.00	-14.11	Horizontal
12400.00	*						54.00		Horizontal
14880.00	*						54.00		Horizontal

#### Remark:

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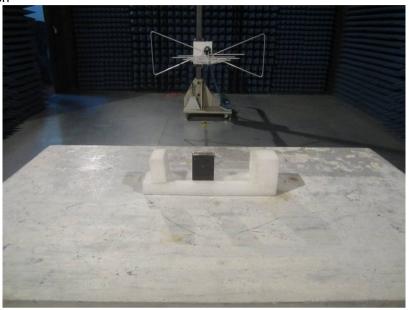
<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

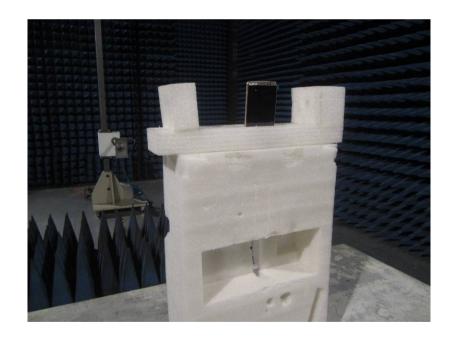
<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



## 8 Test Setup Photo

Radiated Emission







Conducted Emission



### 9 EUT Constructional Details

Reference to the test report No. GTSE15110214001

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