

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2102725

FCC REPORT (BLE)

Applicant: Sky Phone LLC

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

Equipment Under Test (EUT)

Product Name: 4G Smart Phone

Model No.: Elite L55

Trade mark: SKY DEVICES

FCC ID: 2ABOSSKYELITEL55

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

Date of sample receipt: 03 Dec., 2021

Date of Test: 04 Dec., 2021 to 06 Jan., 2022

Date of report issued: 07 Jan., 2022

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 JYT 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	07 Jan., 2022	Original

Tested by:	Janet	Wei	Date:	07 Jan., 2022	
	Test Engin	eer			

Reviewed by:

| Winner Thang | Date: 07 Jan., 2022

Project Engineer



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4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A - BLE	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A - BLE	Pass
Power Spectral Density	15.247 (e)	Appendix A - BLE	Pass
Conducted Band Edge	45.047.(4)	Appendix A - BLE	Pass
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass
Conducted Spurious Emission	15 205 8 15 200	Appendix A - BLE	Pass
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02





5 General Information

5.1 Client Information

Applicant:	Sky Phone LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139
Manufacturer:	Sky Phone LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139

5.2 General Description of E.U.T.

Product Name:	4G Smart Phone
Model No.:	Elite L55
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	-0.68 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V, 2000mAh
AC adapter:	Input: AC100-240V, 50/60Hz, 0.3A
	Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

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.

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5.3 Test environment and 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			

Radiated Emission: 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

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB
Radiated Emission (30MHz ~ 1GHz) for 10m SAC	4.32 dB

5.6 Additions to, deviations, or exclusions from the method

Nο

5.7 Laboratory Facility

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

FCC - Designation No.: CN1211

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

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen 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 L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 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





5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

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

5.9 Test Instruments list

Radiated Emission:	Radiated Emission:					
Took Favringsont	Manufacturer	Madel Na	Carriel No.	Cal.Date	Cal.Due date	
Test Equipment	Manufacturer	Model No.	Serial No.	(mm-dd-yy)	(mm-dd-yy)	
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024	
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-044	03-07-2021	03-06-2022	
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022	
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022	
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022	
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022	
Simulated Station	Anritsu	MT8820C	6201026545	03-03-2021	03-02-2022	
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022	
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022	
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022	
EMI Test Software	Tonscend	TS+		Version:3.0.0.1		
10m SAC	ETS	RFSD-100-F/A	Q2005	04-28-2021	04-27-2024	
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	04-02-2021	04-01-2022	
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	04-02-2021	04-01-2022	
EMI Test Receiver	R&S	ESR 3	102800	04-08-2021	04-07-2022	
EMI Test Receiver	R&S	ESR 3	102802	04-08-2021	04-07-2022	
Low Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-05-2022	
Low Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-05-2022	
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-1	04-02-2021	04-01-2022	
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-2	04-02-2021	04-01-2022	
Test Software	R&S	EMC32	\	/ersion: 10.50.4	0	

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 3	101189	03-03-2021	03-02-2022	
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	03-18-2021	03-17-2022	
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022	
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022	
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022	
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



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Conducted method:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
Spectrum Analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022	
Vector Signal Generator	Keysight	N5182B	MY59101009	10-27-2021	10-26-2022	
Analog Signal Generator	Keysight	N5173B	MY59100765	10-27-2021	10-26-2022	
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-19-2021	11-18-2022	
Simulated Station	Rohde & Schwarz	CMW270	102335	10-27-2021	10-26-2022	
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A	
PDU	MWRF-test	XY-G10	N/A	N/A	N/A	
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2023	
Temperature Humidity Chamber	Deli	8840	N/A	03-08-2021	03-07-2022	
Test Software	MWRF-tes	MTS 8310	,	Version: 2.0.0.0		

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6 Test results and Measurement Data

6.1 Antenna requirement:

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

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(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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 -0.68 dBi.

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6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207	7							
Test Frequency Range:	150 kHz to 30 MHz								
Class / Severity:	Class B	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz								
Limit:	·	Limit (dRuV)							
	Frequency range (MHZ)	Frequency range (MHz) Quasi-peak Average							
	0.15-0.5	66 to 56*	56 to 46*						
	0.5-5	56	46						
	5-30	60	50						
	* Decreases with the logarithn	n of the frequency.							
Test procedure:	line impedance stabilizati 500hm/50uH coupling im 2. The peripheral devices at LISN that provides a 500 termination. (Please refer photographs). 3. Both sides of A.C. line are interference. In order to fi positions of equipment ar	LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).							
Test setup:	Reference	Plane							
	AUX Equipment	EMI Receiver	– AC power						
	LISN: Line Impedence Stabilization Ne Test table height=0.8m	WYOA							
Test Instruments:	Refer to section 5.9 for details	}							
Test mode:	Refer to section 5.3 for details	i							
Test results:	Passed								

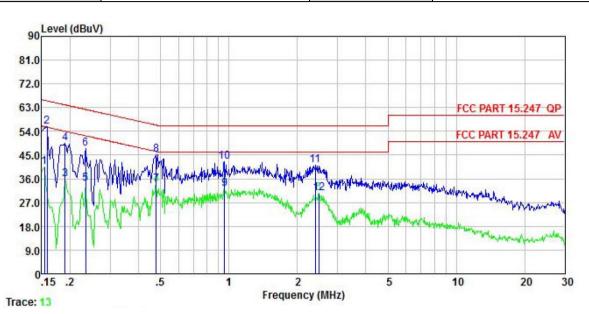
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Measurement Data:

Product name:	4G Smart Phone	Product model:	Elite L55		
Test by:	Janet	Test mode:	BLE Tx mode		
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line		
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%		



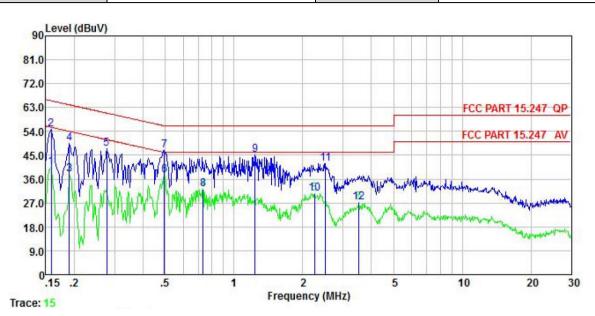
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	<u>ab</u>	dB	dBu₹	dBu₹	<u>dB</u>	
1 2	0.154 0.158	30.23 45.54	10.22 10.22	0.00 0.00	0.01 0.01	40.46 55.77	55.78 65.56		Average OP
2 3 4	0.190 0.190	25.72 39.32	10.23 10.23	0.00	0.03	35.98 49.58	54.02		Average
4 5 6	0.234 0.234	23.97 37.12	10.24 10.24	0.00	0.02	34.23 47.38	52.30		Average
7	0.479 0.479	23.68 34.76	10.29 10.29	0.00	0.03 0.03	34.00 45.08	46.36		Average
8 9 10	0.958 0.958	21.88	10.32 10.32	0.00	0.05	32.25 42.61	46.00		Average
11 12	2.396 2.487	30.60 20.00	10.34 10.34	0.00 0.00	0.15 0.13	41.09 30.47		-14.91 -15.53	QP Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



Product name:	4G Smart Phone	Product model:	Elite L55
Test by:	Janet	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



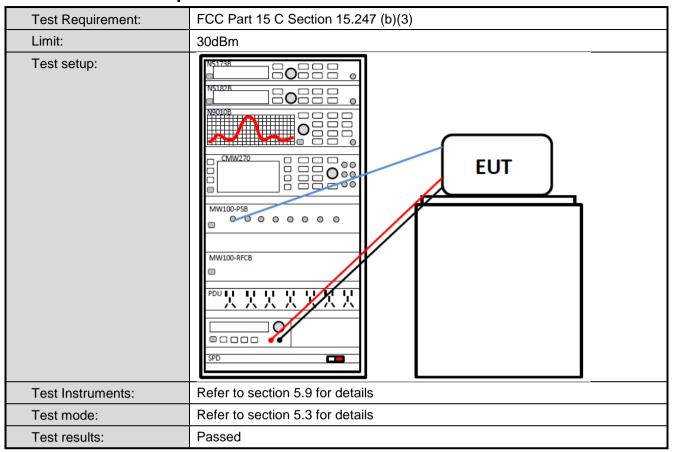
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss		Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	<u>dB</u>	₫B	dBu∀	−−dBuV	<u>dB</u>	
1 2 3 4 5 6 7 8 9 10	0.158 0.158 0.190 0.190 0.277 0.497 0.497 0.731 1.236 2.249 2.513	30. 22 44. 45 27. 46 39. 35 37. 33 27. 16 36. 54 21. 91 34. 76 20. 01 31. 51	10. 20 10. 20 10. 21 10. 21 10. 24 10. 28 10. 30 10. 31 10. 33	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.01 0.01 0.03 0.03 0.02 0.03 0.03 0.03 0.10 0.17 0.13	40.43 54.66 37.70 49.59 47.59 37.47 46.85 32.24 45.17 30.51 41.97	65.56 54.02 64.02 60.90 46.05 56.05 46.00 56.00	-10.90 -16.32 -14.43 -13.31 -8.58 -9.20 -13.76 -10.83	Average QP QP Average QP Average QP Average
12	3. 528	16.70	10.33	0.00	0.08	27.14			Average

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



6.3 Conducted Output Power

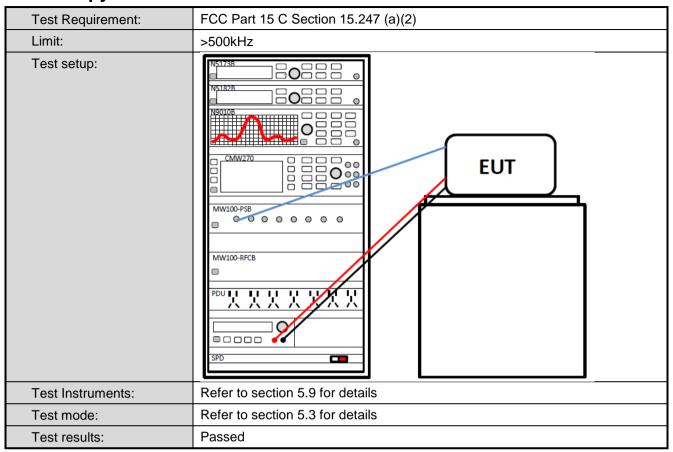


Measurement Data: Refer to Appendix A - BLE

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6.4 Occupy Bandwidth

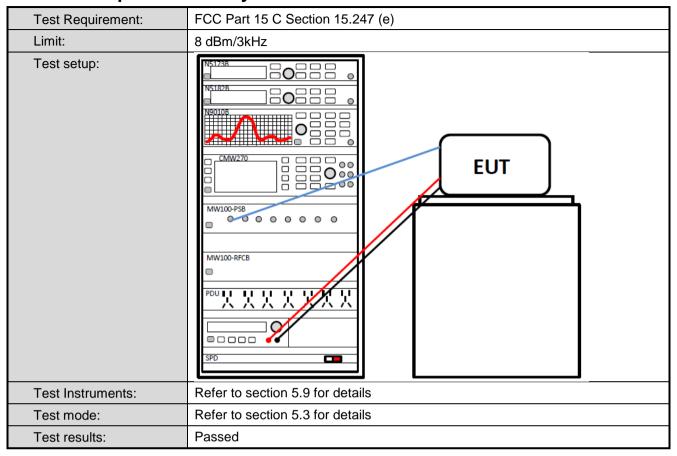


Measurement Data: Refer to Appendix A - BLE

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6.5 Power Spectral Density



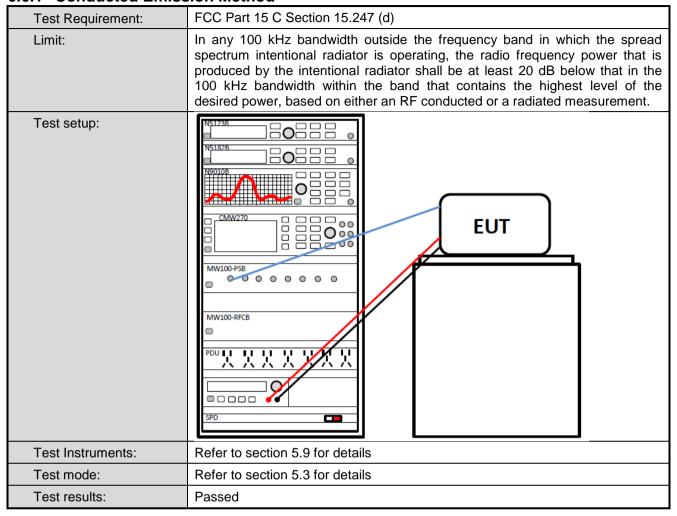
Measurement Data: Refer to Appendix A - BLE

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6.6 Band Edge

6.6.1 Conducted Emission Method



Measurement Data: Refer to Appendix A - BLE

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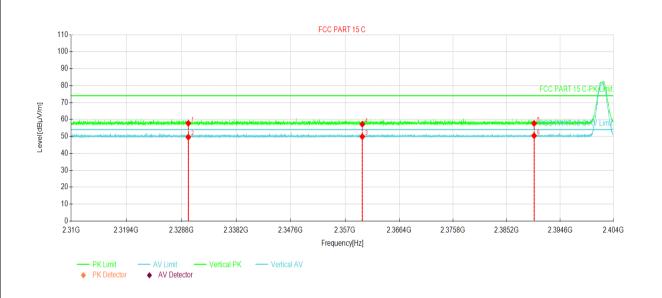


Radiated Emission Method 6.6.2

Test Requirement:		FCC Part 15 C Section 15.205 and 15.209							
Test Frequency Range:	2310 MHz to 2	2390 MHz and	2483.5MHz to 2	2500 MHz					
Test Distance:	3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
		RMS	1MHz	3MHz	Average Value				
Limit:	Frequer	ncy Lii	mit (dBuV/m @3		Remark				
	Above 10	GHz —	54.00 74.00		Average 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 values 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, quasipeak or average method as specified and then reported in a data sheet. 								
Test setup:	AE WHO THE	Ground Test Receiver	Horn Antenna 3m Reference Plane Amplifer Control	Antenna Tower					
Test Instruments:	Refer to section	n 5.9 for detai	ls						
Test mode:		n 5.3 for detai							
Test results:	Passed								



Product Name:	4G Smart Phone	Product Model:	Elite L55
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

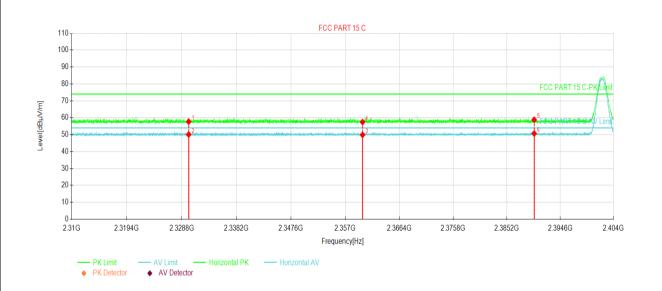


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.34	57.75	35.41	74.00	16.25	PK	Vertical
2	2330.00	14.16	49.57	35.41	54.00	4.43	AV	Vertical
3	2360.00	14.24	49.87	35.63	54.00	4.13	AV	Vertical
4	2360.00	21.54	57.17	35.63	74.00	16.83	PK	Vertical
5	2390.00	21.83	57.67	35.84	74.00	16.33	PK	Vertical
6	2390.00	14.58	50.42	35.84	54.00	3.58	AV	Vertical

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	4G Smart Phone	Product Model:	Elite L55
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

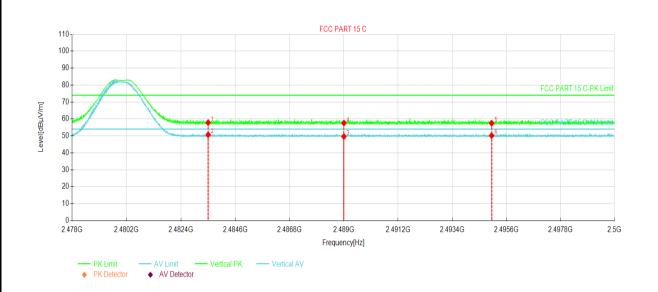


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.31	57.72	35.41	74.00	16.28	PK	Horizontal
2	2330.00	14.69	50.10	35.41	54.00	3.90	AV	Horizontal
3	2360.00	14.24	49.87	35.63	54.00	4.13	AV	Horizontal
4	2360.00	21.83	57.46	35.63	74.00	16.54	PK	Horizontal
5	2390.00	22.97	58.81	35.84	74.00	15.19	PK	Horizontal
6	2390.00	14.86	50.70	35.84	54.00	3.30	AV	Horizontal

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	4G Smart Phone	Product Model:	Elite L55
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



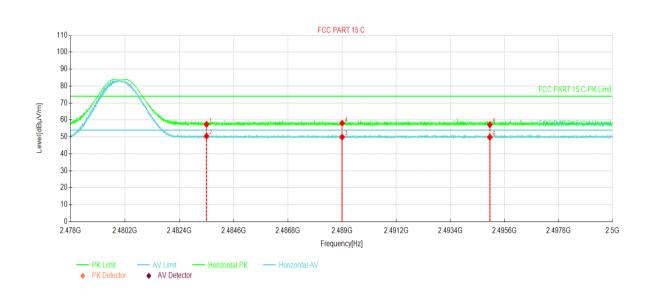
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.13	57.85	35.72	74.00	16.15	PK	Vertical
2	2483.50	14.94	50.66	35.72	54.00	3.34	AV	Vertical
3	2489.00	13.91	49.62	35.71	54.00	4.38	AV	Vertical
4	2489.00	21.89	57.60	35.71	74.00	16.40	PK	Vertical
5	2495.00	21.79	57.48	35.69	74.00	16.52	PK	Vertical
6	2495.00	14.49	50.18	35.69	54.00	3.82	AV	Vertical

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	4G Smart Phone	Product Model:	Elite L55
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	21.69	57.41	35.72	74.00	16.59	PK	Horizontal
2	2483.50	14.76	50.48	35.72	54.00	3.52	AV	Horizontal
3	2489.00	14.16	49.87	35.71	54.00	4.13	AV	Horizontal
4	2489.00	22.33	58.04	35.71	74.00	15.96	PK	Horizontal
5	2495.00	21.49	57.18	35.69	74.00	16.82	PK	Horizontal
6	2495.00	14.11	49.80	35.69	54.00	4.20	AV	Horizontal

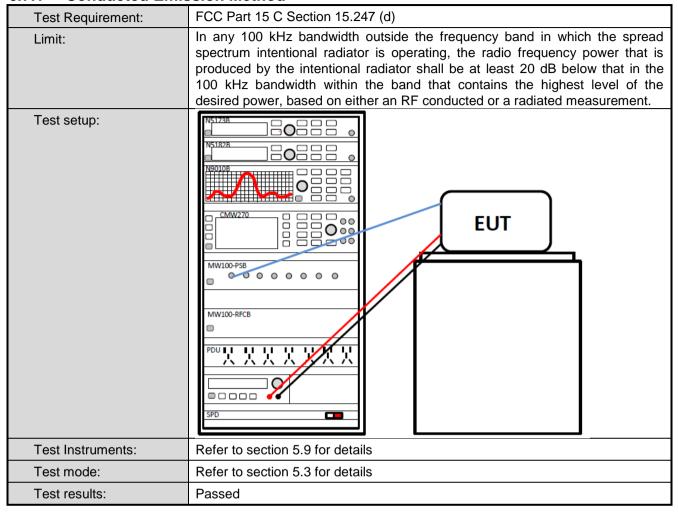
- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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6.7 Spurious Emission

6.7.1 Conducted Emission Method



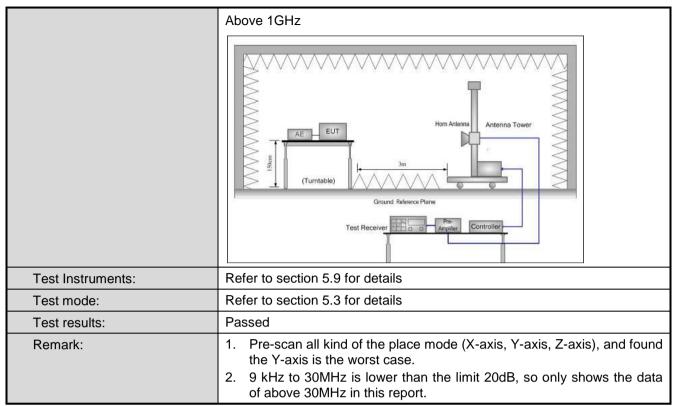
Measurement Data: Refer to Appendix A - BLE



6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209							
Test Frequency Range:	9kHz to 25GHz							
Test Distance:	3m or 10m							
Receiver setup:	Frequency	Detector	RBW	VE	3W	Remark		
	30MHz-1GHz Quasi-p		120KHz	300KHz		Hz Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3M	Hz	Peak Value		
	710070 10112	RMS	1MHz	3M	Hz	Average Value		
Limit:	Frequency		imit (dBuV/m @	10m)	_	Remark		
	30MHz-88M		30.0			Quasi-peak Value		
	88MHz-216N	1	33.5		1	Quasi-peak Value		
	216MHz-960I 960MHz-1G		36.0 44.0			Quasi-peak Value Quasi-peak Value		
	Frequency		Limit (dBuV/m @	3m)		Remark		
			54.0	, 5111)		Average Value		
	Above 1GF	lz	74.0			Peak Value		
Test Procedure:	1. The EUT	was placed		of a ro	tating	table 0.8m(below		
root rootaare.						10 meter chamber		
). The table was		
		0 degrees	to determine	the p	positio	n of the highest		
	radiation. 2. The EUT w	iae eat 10 m	eters(helow 1	CH2) O	r 3 ma	eters(above 1GHz)		
						hich was mounted		
			-height antenn			mon was meanted		
	3. The anteni	na height is	varied from o	ne met	er to	four meters above		
						the field strength.		
			•	tions of	f the a	antenna are set to		
		neasuremer		ELIT W	ae arr	anged to its worst		
						from 1 meter to 4		
						es to 360 degrees		
		maximum re			J	ŭ		
						tect Function and		
	•		th Maximum F			40 10 1		
						s 10 dB lower than nd the peak values		
						ssions that did not		
						using peak, quasi-		
						reported in a data		
	sheet.							
Test setup:	Below 1GHz							
		:	—Т		Antenna To	Ower		
					Antenna I	owei		
	1	1		_				
	Search Antenna Am RF Test							
		— ÎT		Re	ceiver —	7		
	Turn D.8m 1m							
	Ground Plane ———							





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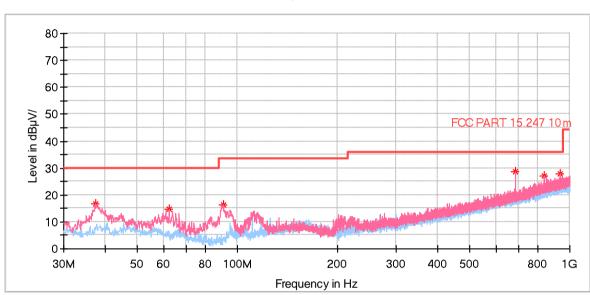


Measurement Data (worst case):

Below 1GHz:

Product Name:	4G Smart Phone	Product Model:	Elite L55
Test By:	Janet	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%





Frequency (MHz)	MaxPeak (dB V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.372000	16.63	30.00	13.37	100.0	V	4.0	-16.2
62.301000	14.68	30.00	15.32	100.0	V	176.0	-16.8
90.819000	16.17	33.50	17.33	100.0	V	239.0	-19.9
687.563000	28.61	36.00	7.39	100.0	V	209.0	-5.1
836.652000	26.91	36.00	9.09	100.0	V	134.0	-1.8
937.047000	27.70	36.00	8.30	100.0	٧	60.0	-0.3

Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





Above 1GHz

Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4804.00	55.86	-9.60	46.26	74.00	27.74	Vertical		
4804.00	55.63	-9.60	46.03	74.00	27.97	Horizontal		
		Dete	ctor: Average Va	alue				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4804.00	48.87	-9.60	39.27	54.00	14.73	Vertical		
4804.00	49.08	-9.60	39.48	54.00	14.52	Horizontal		

l	Test channel: Middle channel									
	Detector: Peak Value									
	Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
Ī	4884.00	55.49	-9.04	46.45	74.00	27.55	Vertical			
Ī	4884.00	55.51	-9.04	46.47	74.00	27.53	Horizontal			
			Dete	ctor: Average Va	alue					
	Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
Ī	4884.00	49.31	-9.04	40.27	54.00	13.73	Vertical			
I	4884.00	48.75	-9.04	39.71	54.00	14.29	Horizontal			
	(MHz) 4884.00	(dBuV) 49.31	-9.04	(dBuV/m) 40.27	(dBuV/m) 54.00	(dB) 13.73	Vertical			

Test channel: Highest channel									
	Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4960.00	55.18	-8.45	46.73	74.00	27.27	Vertical			
4960.00	55.72	-8.45	47.27	74.00	26.73	Horizontal			
		Dete	ctor: Average Va	alue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4960.00	48.81	-8.45	40.36	54.00	13.64	Vertical			
4960.00	48.74	-8.45	40.29	54.00	13.71	Horizontal			

Remark:

^{1.} Final Level =Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.