

Report No: CCISE190510603V01

FCC REPORT

Applicant:	Jiangxi Lesia Technology Co., Limited			
Address of Applicant:	Yangjiahu District(South Of Xiangxing Avenue), Industrial Park, Gao'An City, Jlangxi Province, China			
Equipment Under Test (E	EUT)			
Product Name:	Mobile Phone			
Model No.:	MEGA, KT2425			
Trade mark:	LESIA			
FCC ID:	2ATFDLESIAMEGA			
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B			
Date of sample receipt:	20 May, 2019			
Date of Test:	21 May, to 23 May, 2019			
Date of report issued:	05 Jun., 2019			
Test Result:	PASS *			

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

Authorized Signature:



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.

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Version 2

Version No. Date		Description	
00	24 May, 2019	Original	
01	05 Jun., 2019	Update page 12	

Tested by:

Covey Chen Test Engineer Date:

05 Jun., 2019

Reviewed by:

'ran"

Date:

05 Jun., 2019

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result	
Conducted Emission	Part 15.107	Pass	
Radiated Emission	Part 15.109	Pass	
Remark: Pass: The EUT complies with the essential requirements in the standard. N/A: The EUT not applicable of the test item.			



5 General Information

5.1 Client Information

Applicant:	Jiangxi Lesia Technology Co., Limited
Address:	Yangjiahu District(South Of Xiangxing Avenue), Industrial Park, Gao'An City, Jlangxi Province, China
Manufacturer:	Jiangxi Lesia Technology Co., Limited
Address:	Yangjiahu District(South Of Xiangxing Avenue), Industrial Park, Gao'An City, Jlangxi Province, China

5.2 General Description of E.U.T.

Product Name:	Mobile phone
Model No.:	MEGA, KT2425
Power supply:	Rechargeable Li-ion Battery DC3.7V, 2500mAh
AC adapter :	Model: FEATURE SERIES Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 500mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remarks:	MEGA MINI, KT1715 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name for different customers.

5.3 Test Mode

Operating mode	Detail description		
PC mode	Keep the EUT in Downloading mode(Worst case)		
Charging+Recording mode	Keep the EUT in Charging+Recording mode		
Charging+Playing mode	Keep the EUT in Charging+Playing mode		
FM mode	Keep the EUT in FM receiver mode		
The sample was placed 0.8m 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.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.54 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.84 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)



5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
LENOVO	Laptop	SL510	2847A65	DoC

5.6 Related Submittal(s) / Grant (s)

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

5.7 Description of Cable Used

Cable Type	Description	Length	From	То
Overall USB Cable	Unshielded	0.8m	EUT	Adapter

5.8 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: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.9 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



5.10 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	03-18-2019	03-17-2020	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019	
EMI Test Software	AUDIX	E3	Version: 6.110919b		b	
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020	
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020	
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020	

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	03-18-2019	03-17-2020	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020	
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019	
Cable	HP	10503A	N/A	03-18-2019	03-17-2020	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10)7	
Test Method:	ANSI C63.4:2014	,,	
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit	(dBµV)
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56 60	46
	0.5-30		50
	* Decreases with the logarith		
Test setup:	Reference Plar	ne	_
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver	ower
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices are LISN that provides a 500h termination. (Please referst photographs). Both sides of A.C. line are interference. In order to fir positions of equipment and according to ANSI C63.4: 	on network(L.I.S.N.). The bedance for the measure a also connected to the m/50uH coupling imper- s to the block diagram e checked for maximur- nd the maximum emiss d all of the interface ca	ne provide a ring equipment. a main power through a edance with 50ohm of the test setup and n conducted ion, the relative bles must be changed
Test Instruments:	Refer to section 5.9 for detail	ls	
Test mode:	Refer to section 5.3 for detail	ls	
Test results:	Pass		



Measurement data:

Product name):	Mobile ph	one	1	Product mo	del:	MEGA	MEGA			
Fest by:		Carey			Test mode:		PC mode Line				
Test frequenc	y:	150 kHz ~	- 30 MHz	1	Phase:						
Test voltage:		AC 120 V	/60 Hz		Environmer	nt:	Temp: 2	22.5℃	Huni: 55%		
80 Level (70 60 50 40 30 20 10 0.15 .2 Trace: 7	the man	B B M M M M M M M M M M M M M M M M M M	MAN MANANANA MANANANA MANANANA MANANANA MANANANA MANANANA MANANANA MANANANA MANANANAN	Manager Market Market Market Market Market Market Market Market Freques Cable	2 ncy (MHz)	12 mm ¹² 5 Limit	10 Nover	FCC PART	15 B QP		
	MHz	Level dBuV	Factor dB	Loss dB	Level dBuV	Line dBuV	Limit dB	Kemark			

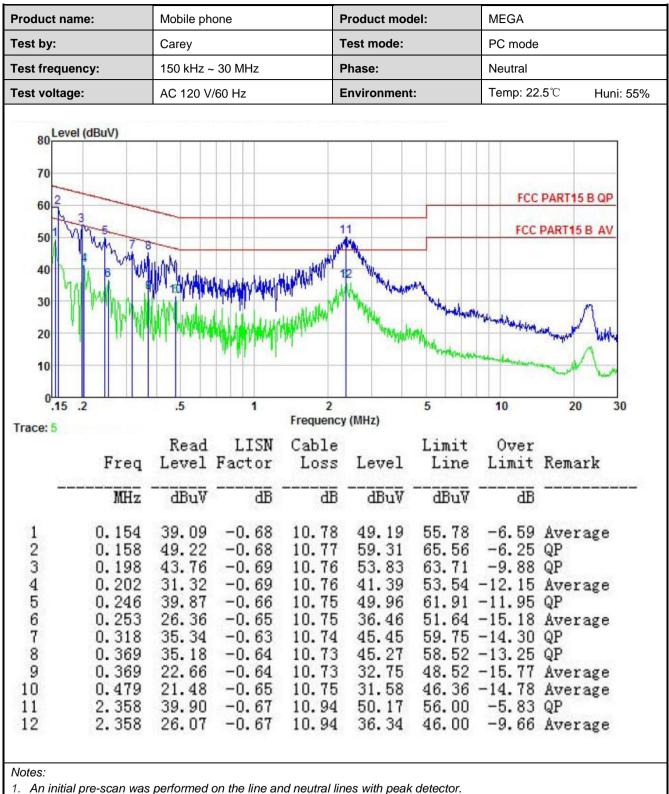
Notes:

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.





Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.2 Radiated Emission

Test Requirement:	FCC Part 15 B S	ection 15.1	09			
Test Method:	ANSI C63.4:2014	ļ				
Test Frequency Range:	30MHz to 6000M	Hz				
Test site:	Measurement Dis	stance: 3m	(Sen	ni-Anechoic	Chamber))
Receiver setup:	Frequency Detector			RBW	VBW	Remark
·	30MHz-1GHz	Quasi-pe		120kHz	300kHz	
	Above 1GHz	Peak		1MHz	3MHz	Peak Value
1.1.1.1	Eroquona	RMS		1MHz nit (dBuV/m	3MHz	Average Value Remark
Limit:	Frequence 30MHz-88N			40.0	wom)	Quasi-peak Value
	88MHz-216			43.5		Quasi-peak Value
	216MHz-960			46.0		Quasi-peak Value
	960MHz-10			54.0		Quasi-peak Value
				<u> </u>		Average Value
	Above 1G	Hz		74.0		Peak Value
Test setup:	Below 1GHz	4m			Antenna Tower Search Antenna Test eiver	
				erence Plane	Antenna Tow	ver



Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic 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.
	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 rotatable 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, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	 All of the observed value above 6GHz ware the niose floor, which were no recorded DDR highest frequency is 133MHz.

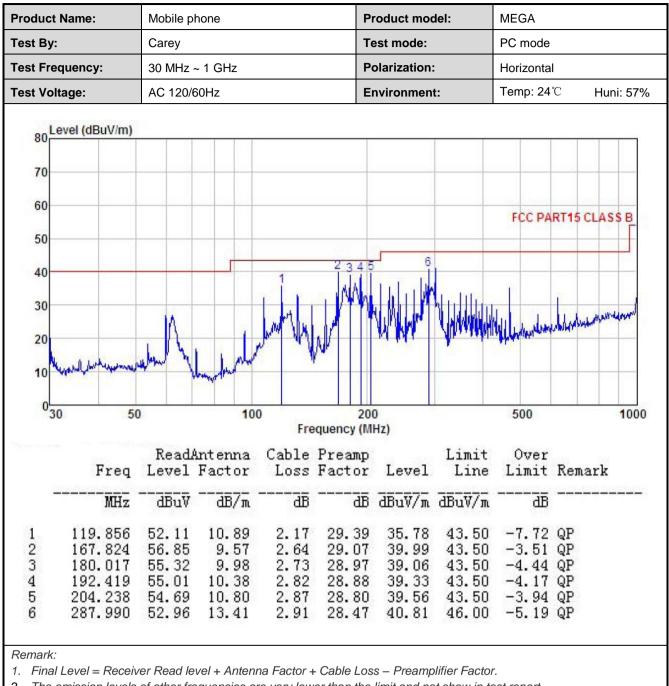


Measurement Data:

Below	1GHz:
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oduct Name		Mobile ph	none		Pro	oduct mod	el:	MEGA			
st By:		Carey				st mode:		PC mode			
st Frequend	cy:	30 MHz ~	1 GHz		Ро	larization:		Vertical Temp: 24°C Huni: 57			
st Voltage:		AC 120/6	0Hz		En	vironment					
80 Level (c	BuV/m)										
70											
60								500.04			
50								FCC PA	RT15 CLA	SSB	
			6.1.	-							
States Sec.				3		-					
40		1		3 2 1 M.,	4	5		6	_		
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30 20 May 14	50	h			4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		al Manadala		uhannahadaa		
30 20 May M	50	h		Fre	quency (MH	Hz)		500			
30 20 May M			100 Antenna Factor	Fre Cable		łz)	Limit	500 Over		1000	
30 20 May M			Antenna	Fre Cable	quency (MH Preamp Factor	łz)	Line	500 Over Limit	Remark	1000	
30 20 10 0 30	Freq MHz 52.651	Level dBuV 48.68	Antenna Factor dB/m 10.45	Fre Cable Loss dB 1.38	quency (MH Preamp Factor dB 29.76	iz) Level	Line dBuV/m 40.00	500 Over Limit -9.25	Remark	1000	
30 20 10 0 30	Freq MHz 32.651 17.888	Level dBuV 48.68 52.11	Antenna Factor 	Fre Cable Loss dB 1.38 2.03	quency (MH Preamp Factor dB 29.76 29.47	tz) Level dBuV/m 30.75 36.49	Line dBuV/m 40.00 43.50	500 500 Over Limit -9.25 -7.01	Remark 	1000	
30 20 10 0 30	Freq MHz 52.651	Level dBuV 48.68	Antenna Factor dB/m 10.45	Fre Cable Loss dB 1.38	quency (MH Preamp Factor dB 29.76	tz) Level dBuV/m 30.75	Line dBuV/m 40.00	500 500 Over Limit -9.25 -7.01	Remark QP QP QP QP	1000	
30 20 10 0 30 10 0 30 10 30 11 4 19 5 28	Freq MHz 52.651 17.888 9.856	Level dBuV 48.68 52.11 56.56	Antenna Factor dB/m 10.45 11.82 10.89	Fre Cable Loss dB 1.38 2.03 2.17	quency (MH Preamp Factor dB 29.76 29.47 29.39	tz) Level dBuV/m 30.75 36.49 40.23 34.38	Line dBuV/m 40.00 43.50 43.50 43.50 46.00	500 500 Over Limit dB -9.25 -7.01 -3.27	Remark QP QP QP QP QP QP	1000	





2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Above 1GHz:

roduct	Name):	Mobile p	hone		F	roduct mo	del:	MEGA			
est By:	:		Carey				est mode:		PC mode			
est Fre	quenc	cy:	1 GHz ~	6 GHz		P	olarization	:	VerticalTemp: 24°CHuni: 57			
est Vol	Itage:		AC 120/	60Hz		E	Invironmer	nt:				
	Level	(d <mark>Bu</mark> V/m))									
80									F	CC PART 15	(PK)	
70												
60												
									F	CC PART 15	(AV)	
50										3	5	
40							1 mon man inter annals	hand den stop beson	anger for the state of the second states	3 Manshumpuns	6	
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30												
20												
10												
0	1000	1200	150	0	2000					5000	600	
			D			requency (Tinit	0			
		Freq		Intenna Factor		Preamp Factor		Limit Line	Over Limit	Remark		
-		MHz			<u>d</u> B	<u>d</u> B	dBuV/m	dBuV/m	<u>a</u> B			
1	270	9.348	47.25	28.08	5.13	41 66	40.62	74 00	-33.38	Peak		
2	279	9.348	38.36	28.08	5.13	41.66	31.73	54.00	-22.27	Average		
2 3 4		5.801 5.801	47.91 38.46	30.64 30.64	6.89 6.89		45.71 36.26		-28.29	Peak Average		
5		9.817	46.40	32.65	7.74	41.96	47.55		-26.45			
6	573	9.817	37.42	32.65	7.74	41.96	38.57	54.00	-15.43	Average		



oduct Name:	Mobile p	hone		Pi	oduct mod	del:	MEGA			
est By:	Carey			Те	est mode:		PC mode			
est Frequency:	1 GHz ~	6 GHz		P	olarization	:	HorizontalTemp: 24°CHuni: 5			
est Voltage:	AC 120/	60Hz		E	nvironmen	t:				
80 Level (dBuV/m)									
70			_				FCC P/	ART 15 (PK)		
60							FCC P/	ART 15 (AV)		
50							2	5		
					1	was der with the	www.map.towns	manufactor		
40		when the man and the	Hundhmandrink	www.to/www.to/www.to/www.to/www.to/www.to/www.to/www.to/www.to/www.to/www.to/www.to/www.to/www.to/www.to/www.to	a state of the second		4	16		
30	Contraction of the second s				4					
20										
10										
01000 1200	1500		2000				5	000 6000		
				uency (MHz)					
Fre		Antenna Factor			Level	Limit Line	Over Limit	Remark		
M H:	z	d B/m	 BB	āē	dBuV/m	dBuV∕m	āē			
1 2843.26		28.18	5.18	41.62	40.81		-33.19			
2 2843.26 3 4509.26 4 4509.26		28.18 30.42	5.18 6.81	41.62	32.03 44.86		-21.97	Average Peak		
4 4509.26		30.42	6.81	42.00				Average		
5 5289.370	46.83	32.11	7.10	41.91	46.73	74.00	-27.27	Peak		
6 5289.370	37.55	32.11	7.10	41.91	37.45	54.00	-16.55	Average		