

FCC Test Report

Report No.: AGC03175180502FE08

FCC ID : 2AF6M3396993S51

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: MOBILE PHONE

BRAND NAME : Cellacom

MODEL NAME : S51_lite, S51_pro

: Mobile Commodity Corporation

DATE OF ISSUE : July 02, 2018

STANDARD(S) FCC Part 15.247

TEST PROCEDURE(S) KDB 558074 D01 DTS Meas Guidance v04

REPORT VERSION: V1.1

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	June 21, 2018	Invalid	Original Report
V1.1	1 st	July 02, 2018	Valid	Revise Report P26

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1. VERIFICATION OF COMPLIANCE

Applicant	Mobile Commodity Corporation
Address	20955 Pathfinder Road, Suite 200, Diamond Bar, CA 91765, USA
Manufacturer	Cellacom Incorporation
Address	20955 Pathfinder Road, Suite 100, Diamond Bar, CA 91765, USA
Product Designation	MOBILE PHONE
Brand Name	Cellacom
Test Model	S51_lite
Serial Model	S51_pro
Difference Description	All the same except the model name.
Date of test	May. 28, 2018~June 19, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BLE/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

The test results of this report relate only to the tested sample identified in this report.

Tested By	Nice.xie	
CC E	Nice Xie(Xie xiaosong)	June 21, 2018
Reviewed By	Borexie	
SCC	Bart Xie(Xie Xiaobin)	July 02, 2018
Approved By	Foresto ce	
C Marine CO	Forrest Lei(Lei Yonggang) Authorized Officer	July 02, 2018

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2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as "MOBILE PHONE". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following:

Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V4.0
Modulation	GFSK
Number of channels	40 Channel(37 Hopping Channel,3 advertising Channel)
Antenna Designation	PIFA Antenna
Antenna Gain	1.0dBi
Hardware Version	L71_M_V3.0
Software Version	S51_Lite_V1.0
Power Supply	DC3.8V by Built-in Li-ion Battery

2.2 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AF6M3396993S51** filing to comply with Section 15.247of the FCC Part 15, Subpart C Rules.

2.3TEST METHODOLOGY

All measurements contained in this report were conducted with KDB 558074, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions. The EUT was tested in all three orthogonal planes and the worse case was showed.

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2.4 TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012		
NVLAP LAB CODE	600153-0		
Designation Number	CN5028		
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0		

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

- -Uncertainty of Conducted Emission, Uc=±3.2dB
- Uncertainty of Radiated Emission below 1GHz, $Uc\pm3.9dB$
- Uncertainty of Radiated Emission above 1GHz, Uc \pm 4.8dB

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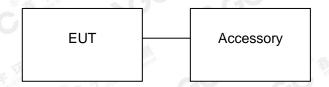


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4. SYSTEM TEST CONFIGURATION

4.1 CONFIGURATION OF TESTED SYSTEM

Configuration:



4.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
10	MOBILE PHONE	S51_lite	2AF6M3396993S51	EUT
3	Battery	S51_lite	DC 3.8V/2000mAh	Accessory
4	USB	N/A	N/A	Accessory

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ALL TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
SIGNAL ANALYZER	Agilent	N9020A	MY52090123	Sep. 21, 2017	Sep. 20, 2018
USB Wideband Power Sensor	Agilent	U2021XA	MY54110007	Sep. 21, 2017	Sep. 20, 2018
LOOP ANTENNA	A.H	SAS-562B	1	Mar.01,2018	Feb.28, 2019

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4. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.247	Spurious Emission	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Peak Output Power	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.207	§15.207 Power Line Conduction Emission	

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5. DESCRIPTION OF TEST MODES

The EUT has been operated in three modulations: GFSK independently.

NO.	TEST MODE DESCRIPTION			
Suban Cooper	Low channel TX			
-C 2	Middle channel TX			
3	High channel TX			
4	Normal Operating (BT)			

Note:

- 1. All the test modes can be supply by Built-in Li-ion battery, only the result of the worst case was recorded in the report if no any records.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. EUT is operating at its maximum duty cycle>or equal 98%

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6. RADIATED EMISSION

6.1 MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

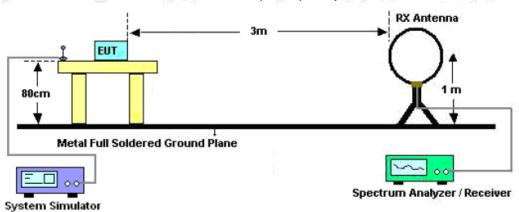
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GCS

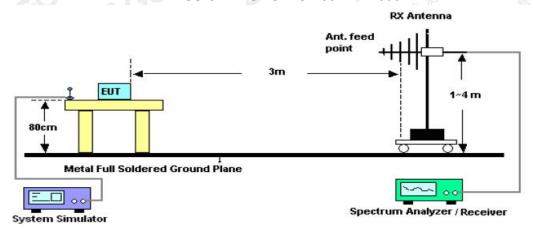


6.2 TEST SETUP

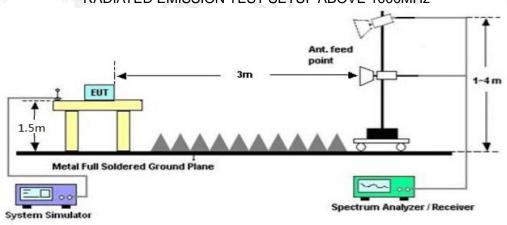
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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6.3 LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)	
0.009~0.490	2400/F(KHz)	300	
0.490~1.705	24000/F(KHz)	30	
1.705~30.0	30	30	
30~88	100	3	
88~216	150	3	
216~960	200	The state of the s	
Above 960	500	3	

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

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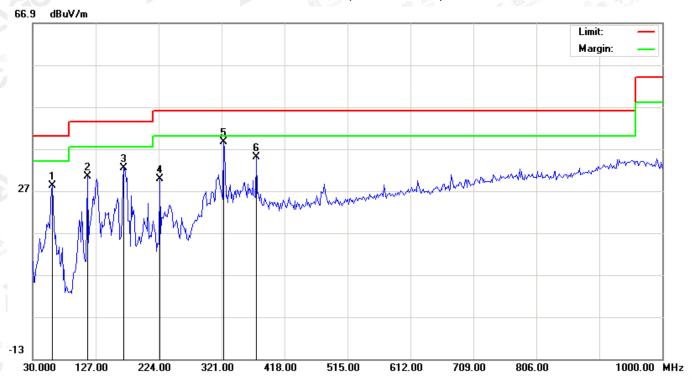
6.4 TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ) -HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		60.7167	23.98	4.20	28.18	40.00	-11.82	peak			
2		114.0667	20.26	10.23	30.49	43.50	-13.01	peak			
3		170.6500	18.78	13.72	32.50	43.50	-11.00	peak			
4		225.6167	17.35	12.39	29.74	46.00	-16.26	peak			
5	*	324.2333	18.63	20.02	38.65	46.00	-7.35	peak			
6		374.3500	13.03	21.90	34.93	46.00	-11.07	peak		·	_

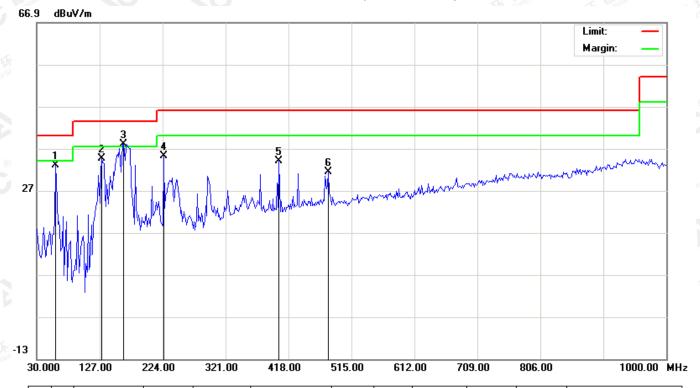
RESULT: PASS

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RADIATED EMISSION TEST- (30MHZ-1GHZ) -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		59.1000	21.84	11.16	33.00	40.00	-7.00	peak			
2		130.2333	20.49	14.13	34.62	43.50	-8.88	peak			
3	*	164.1833	20.02	18.07	38.09	43.50	-5.41	peak			
4		225.6167	20.68	14.51	35.19	46.00	-10.81	peak			
5		403.4500	11.89	22.17	34.06	46.00	-11.94	peak			
6		479.4333	7.58	23.91	31.49	46.00	-14.51	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. All test modes for different EUT are pre-tested. The low channel for GFSK mode is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

Frequency	Emission Level	Limits	Margin	Detector	Commant	
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment	
Jones J. Global Comp	60 m	ow Channel (2402	MHz)			
4804	50.23	74	-23.77	Pk	Vertical	
4804	37.15	54	-16.85	AV	Vertical	
4804	49.56	74	-24.44	Pk	Horizontal	
4804	34.31	54	-19.69	AV	Horizontal	
- GO "		Mid Channel (2440	MHz)	1 位	inco	
4880	49.36	74	-24.64	e Pk	Vertical	
4880	36.45	54	-17.55	AV	Vertical	
4880	51.03	74	-22.97	Pk	Horizontal	
4880	35.16	54	-18.84	AV	Horizontal	
		ligh Channel (2480	MHz)	n of Glob	gion of	
4960	49.44	74	-24.56	pk	Vertical	
4960	34.25	54	-19.75	AV	Vertical	
4960	49.56	74	-24.44	pk	Horizontal	
4960	38.41	54	-15.59	AV	Horizontal	

RESULT: PASS

Note: 1~25GHz scan with GFSK. No recording in the test report at least have 20dB margin.

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Emission Level = Meter Reading + Factor

Margin = Emission - Level Limit

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7. BAND EDGE EMISSION

7.1. MEASUREMENT PROCEDURE

1)Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

- 2)Conducted Emissions at the bang edge
 - a)The transmitter output was connected to the spectrum analyzer
 - b)Set RBW=100kHz,VBW=300kHz
 - c)Suitable frequency span including 100kHz bandwidth from band edge

7.2. TEST SET-UP

Radiated same as 6.2

Conducted set up

EUT Spectrum analyzer cable

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7.3. RADIATED TEST RESULT

Frequency	Emission Level	Limits	Margin	Detector	Commont
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
Dal Co.	CONTRACTOR AND	GF	SK		W. A.
2399.9	51.02	74	-22.98	peak	Vertical
2399.9	36.11	54	-17.89	AVG	Vertical
2399.9	53.19	74	-20.81	peak	Horizontal
2399.9	35.25	54	-18.75	AVG	Horizontal
2483.6	52.15	74	-21.85	peak	Vertical
2483.6	40.36	54	-13.64	AVG	Vertical
2483.6	53.21	74	-20.79	peak	Horizontal
2483.6	37.64	54	-16.36	AVG	Horizontal

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain,

Emission Level = Meter Reading + Factor

Margin= Emission Level -Limit.

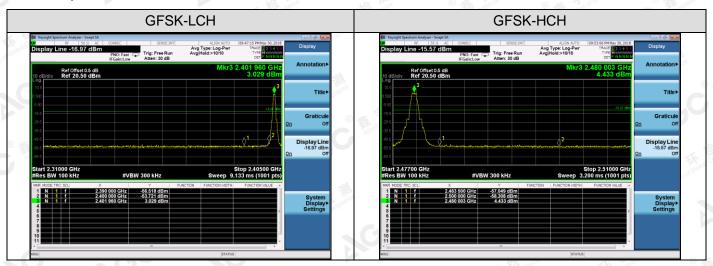
The "Factor" value can be calculated automatically by software of measurement system.

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7.4. CONDUCTED TEST RESULT Test Graph



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8.6DB BANDWIDTH

8.1. TEST PROCEDURE

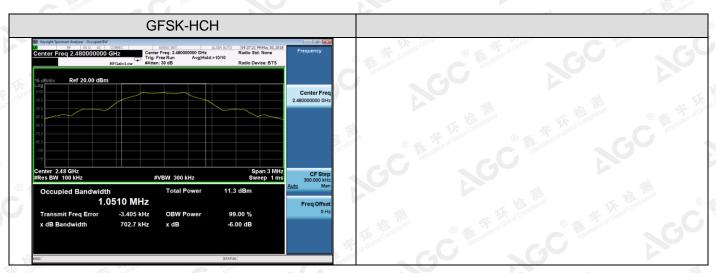
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW≥RBW.
- 4. Set SPA Trace 1 Max hold, then View.

8.2. SUMMARY OF TEST RESULTS/PLOTS

Mode	Channel	6dB Bandwidth [KHz]	Verdict
BLE	LCH	706.7	PASS
BLE	MCH	703.2	PASS
BLE	HCH	702.7	PASS

Test Graph





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GCS



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9. CONDUCTED OUTPUT POWER

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 3. Use the following spectrum analyzer settings:

Set the RBW ≥ DTS bandwidth

Set the VBW \geq 3 x RBW

Set the span ≥ 3 x RBW

Detector = peak

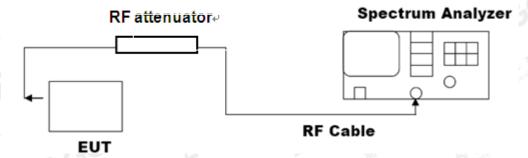
Sweep time = auto couple

Trace mode = max hold

- 4. Allow the trace to stabilize. Use peak marker function to determine the peak amplitude level
- 5. Record the result form the Spectrum Analyzer.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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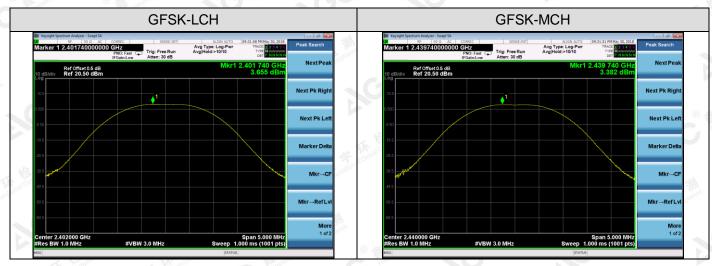
GC

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9.3. LIMITS AND MEASUREMENT RESULT

Channel	Peak Power (dBm)	Applicable Limits (dBm)	Pass/Fail
Low Channel	3.655	30	Pass
Middle Channel	3.382	30	Pass
High Channel	4.970	30	Pass

Test Graph





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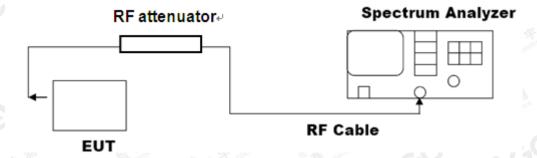
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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10.3 LIMITS AND MEASUREMENT RESULT

Mode	Channel	PSD [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	LCH S	-11.455	8	PASS
BLE	MCH	-11.643	8	PASS
BLE	HCH	-10.026	8	PASS

Test Graph





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11. CONDUCTED SPURIOUS EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 - RBW = 100 kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW>RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW>RBW) are conform to the requirement.

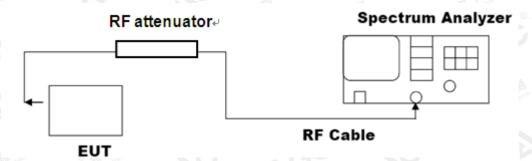
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11.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



11.3. LIMITS AND MEASUREMENT RESULT

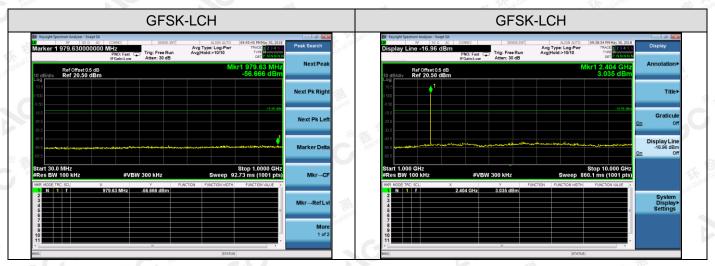
LIMITS AND MEASUREMENT RESULT						
Amulia alala I imita	Measurement Result					
Applicable Limits	Test Data	Criteria				
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS				
intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also	At least -20dBc than the limit Specified on the TOP Channel	GC PASS				
comply with the radiated emission limits specified in \$15.209(a))	To the same of the	The safety of Godes Committee (S. S. S				

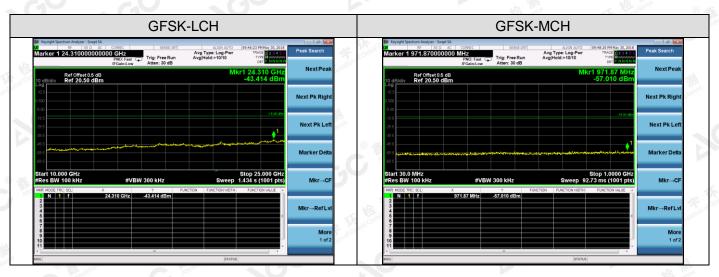
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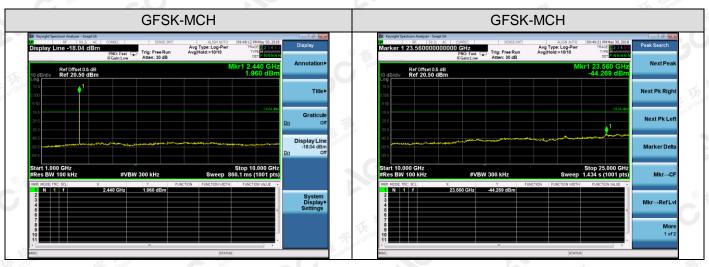
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Test Graph

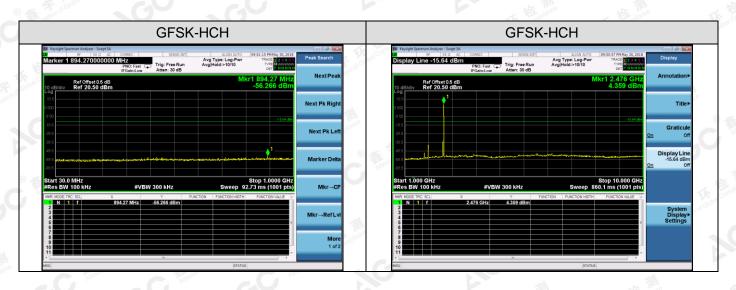






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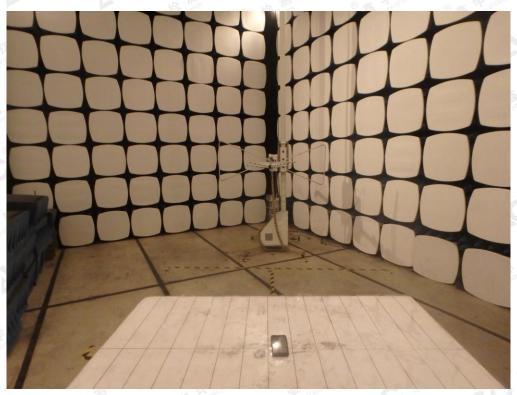


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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP



RADIATED EMISSION ABOVE 1G TEST SETUP



----END OF REPORT----

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