# RF TEST REPORT



Report No.: 16070595-FCC-R5 Supersede Report No.: N/A

Applicant	Shenzhen Konka Telecommunications Technology Co., Ltd.			
Product Name	Smart Phone			
Model No.	AD570			
Serial No.	N/A			
Test Standard	FCC Part 2	27: 2015; ANS	SI/TIA-603-D: 20	10
Test Date	May 26 to	June 06, 2016	3	
Issue Date	June 07, 20	June 07, 2016		
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
LOVEN LUO David Huang				
Loren Luo Test Engineer			l Huang cked By	
		_		

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Test result presented in this test report is applicable to the tested sample only

Issued by:

#### SIEMIC (SHENZHEN-CHINA) LABORATORIES

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### **Laboratories Introduction**

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### **Accreditations for Conformity Assessment**

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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### 1. Report Revision History

Report No.	Report Version	Description	Issue Date
16070595-FCC-R5	NONE	Original	June 07, 2016

### 2. Customer information

Applicant Name	Shenzhen Konka Telecommunications Technology Co., Ltd.	
Applicant Add	No.9008 Shennan Road, Overseas Chinese Town, ShenZhen, Guangdong, China	
Manufacturer	Shenzhen Konka Telecommunications Technology Co., Ltd.	
Manufacturer Add	No.9008 Shennan Road, Overseas Chinese Town, ShenZhen, Guangdong, China	

### 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES		
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park		
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China		
	518108		
FCC Test Site No.	718246		
IC Test Site No.	4842E-1		
Test Software	Radiated Emission Program-To Shenzhen v2.0		



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### 4. Equipment under Test (EUT) Information

Description of EUT: Smart Phone

Main Model: AD570

Serial Model: N/A

Date EUT received: May 25, 2016

Test Date(s): May 26 to June 06, 2016

Equipment Category : PCE

Type of Modulation:

GSM850: -0.11dBi PCS1900: 0.92dBi

UMTS-FDD Band 5: -0.05dBi

Antenna Gain: UMTS-FDD Band 2: 0.81dBi

LTE Band 4: 0.81dBi

Bluetooth/BLE/WIFI: 1.36dBi

GPS: 1.36dBi

GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK

LTE Band: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK



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GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

UMTS-FDD Band 5 TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band 2 TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

RF Operating Frequency (ies):

LTE Band 4 TX: 1712.5 ~ 1752.5 MHz; RX: 2112.5 ~ 2152.5 MHz

WIFI: 802.11b/g/n(20M): 2412-2462 MHz WIFI: 802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz

Maximum Conducted

AV Power to Antenna:

LTE Band 4: 23.23 dBm

ERP/EIRP: LTE Band 4: 23.92 dBm / EIRP

Port: Power Port, Earphone Port, USB Port

Adapter:

Model: HJ-050100-AR

Input: AC 100-240V~50/60Hz;0.15A

Output: DC 5.0V,1A

Input Power: Potencia: 5W

Battery:

Model: KLB270P350

Spec: 3.8V,2700mAh(10.26Wh) Charge limited voltage: 4.35V

Trade Name: ADMIRAL

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: UT3AD570



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### 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result	
§ 1.1307; § 2.1093	RF Exposure (SAR)	Compliance	
§2.1046; § 22.913(a); § 24.232(c);	DE Output Dower	Compliance	
§ 27.50(c.10); § 27.50(d.4)	RF Output Power	Compliance	
§ 24.232 (d); § 27.50(d)	Peak-Average Ratio	Compliance	
§ 2.1047	Modulation Characteristics	N/A	
§ 2.1049; § 22.905; § 22.917;	000/ 9, 26 dB Occupied Bandwidth	Compliance	
§ 24.238; § 27.53(a.5)	99% & -26 dB Occupied Bandwidth		
§ 2.1051; § 22.917(a);	Courieus Emissions et Antonno Torreirol	Camplianas	
§ 24.238(a); § 27.53(h)	Spurious Emissions at Antenna Terminal	Compliance	
§ 2.1053; § 22.917(a);	Field Strongth of Spurious Dediction	Compliance	
§ 24.238(a); § 27.53(h)	Field Strength of Spurious Radiation		
§ 22.917(a); § 24.238(a);	Out of band emission, Band Edge	Compliance	
§ 27.53(m)	Band Edge 27.53(m)	N/A	
§ 2.1055; § 22.355; § 24.235;	Frequency stability vs. temperature	Camplianas	
§ 27.5(h); § 27.54	Frequency stability vs. voltage	Compliance	

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

#### Measurement Uncertainty

Emissions				
Test Item	Description	Uncertainty		
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB		
-	-	-		



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### 6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

### 6.1 RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation;

Please refer to RF Exposure Evaluation Report: 16070595-FCC-H.



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# 6.2 RF Output Power

Temperature	25°C
Relative Humidity	54%
Atmospheric Pressure	1002mbar
Test date :	June 02, 2016
Tested By:	Loren Luo

Requirement(s):							
Spec	Item	Item Requirement Applie					
§22.913 (a)	a)	ERP:38.45dBm					
§24.232 (c)	b)	EIRP:33dBm					
§27.50 (c)	c)	EIRP: 30dBm	<b>V</b>				
Test Setup							
Test Procedure	- -	The transmitter output port was connected to base state Set EUT at maximum power through base station.  Select lowest, middle, and highest channels for each to different test mode.  For ERP/EIRP:  The transmitter was placed on a wooden turntable, and transmitting into a non-radiating load which was also placed turntable.  The measurement antenna was placed at a distance of from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in ord the maximum level of emissions from the EUT. The test performed by placing the EUT on 3-orthogonal axis.  The frequency range up to tenth harmonic of the fundating frequency was investigated.	d it was laced on the f 3 meters der to identify st was				



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	- Remove the EUT and replace it with substitution antenna. A signal
	generator was connected to the substitution antenna by a non-
	radiating cable. The absolute levels of the spurious emissions
	were measured by the substitution.
	- Spurious emissions in dB = 10 log (TX power in Watts/0.001) –
	the absolute level
	- Spurious attenuation limit in dB = 43 + 10 Log10 (power out in
	Watts.
Remark	
Result	Pass
Test Data Yes	□ <sub>N/A</sub>
Test Plot Yes	(See below) N/A



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#### **Conducted Power**

#### LTE Band 4:

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant	
				1	0	0	23.23	23±1	
				1	49	0	23.20	$\frac{23\pm 1}{23\pm 1}$	
				1	99	0	23.19	$\frac{23\pm 1}{23\pm 1}$	
			QPSK	50	0	1	22.59	23±1 23±1	
			QF3K	50	24	1	22.54	$\frac{23\pm 1}{23\pm 1}$	
				50	49	1	22.53	23±1 23±1	
				100	0	1	22.63	23±1 23±1	
	20050	1720.0		1	0	1	22.52	22±1	
				1	49	1	22.51	22±1	
				1	99	1	22.13	22±1	
			16QAM	50	0	2	21.56	22±1	
			2000	50	24	2	21.51	22±1	
				50	49	2	21.58	22±1	
				100	0	2	21.17	22±1	
				1	0	0	22.67	22.5±1	
				1	49	0	22.69	22.5±1	
				1	99	0	22.71	22.5±1	
		1732.5	QPSK	50	0	1	22.57	22.5±1	
				50	24	1	22.68	22.5±1	
				50	49	1	22.60	22.5±1	
•••				100	0	1	22.60	22.5±1	
20MHz	20175			1	0	1	21.57	22±1	
				1	49	1	21.63	22±1	
				1	99	1	21.73	22±1	
			16QAM	50	0	2	21.25	22±1	
				50	24	2	21.26	22±1	
				50	49	2	21.24	22±1	
				100	0	2	21.05	22±1	
				1	0	0	22.50	22±1	
		300 1745.0	QPSK	1	49	0	22.51	22±1	
				1	99	0	22.53	22±1	
				50	0	1	21.61	22±1	
				50	24	1	21.53	22±1	
				50	49	1	21.62	22±1	
	20200			100	0	1	21.59	22±1	
	20300			1	0	1	21.81	21.5±1	
			16QAM	1	49	1	21.81	21.5±1	
				1	99	1	21.85	$21.5 \pm 1$	
				50	0	2	21.57	21.5±1	
				50	24	2	21.53	$21.5 \pm 1$	
				50	49	2	21.56	21.5±1	
						100	0	2	21.19



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BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
				1	0	0	23.14	22.5±1
				1	37	0	23.06	22.5±1
				1	74	0	22.98	22.5±1
			QPSK	36	0	1	22.09	22.5±1
				36	16	1	22.06	22.5±1
				36	35	1	22.04	22.5±1
				75	0	1	22.00	22.5±1
	20025	1717.5		1	0	1	22.64	22±1
				1	37	1	22.38	22±1
				1	74	1	22.18	22±1
			16QAM	36	0	2	21.31	22±1
				36	16	2	21.38	22±1
				36	35	2	21.29	22±1
				75	0	2	21.20	22±1
				1	0	0	22.65	22±1
				1	37	0	22.63	22±1
				1	74	0	22.61	22±1
		1732.5	QPSK	36	0	1	21.58	22±1
				36	16	1	21.51	22±1
				36	35	1	21.59	22±1
				75	0	1	21.59	22±1
15MHz	20175			1	0	1	21.47	21.3±1
				1	37	1	21.40	21.3±1
			16QAM	1	74	1	21.39	21.3±1
				36	0	2	21.25	21.3±1
				36	16	2	21.24	21.3±1
				36	35	2	21.27	21.3±1
				75	0	2	20.64	21.3±1
				1	0	0	22.51	22±1
				1	37	0	22.53	22±1
				1	74	0	22.50	22±1
			QPSK	36	0	1	21.69	22±1
				36	16	1	21.57	22±1
				36	35	1	21.62	22±1
	20225	4747.5		75	0	1	21.64	22±1
	20325	1747.5		1	0	1	21.85	21.3±1
				1	37	1	21.82	21.3±1
				1	74	1	21.83	21.3±1
			16QAM	36	0	2	21.59	21.3±1
				36	16	2	21.55	21.3±1
				36	35	2	21.57	21.3±1
				75	0	2	21.18	21.3±1



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BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
				1	0	0	22.45	22±1
				1	24	0	22.31	22±1
				1	49	0	22.06	22±1
			QPSK	25	0	1	21.51	22±1
				25	12	1	21.47	22±1
				25	24	1	21.49	22±1
	20000	4745.0		50	0	1	21.51	22±1
	20000	1715.0		1	0	1	21.99	21.3±1
				1	24	1	21.96	21.3±1
				1	49	1	21.97	21.3±1
			16QAM	25	0	2	21.82	21.3±1
				25	12	2	21.71	21.3±1
				25	24	2	21.65	21.3±1
				50	0	2	20.55	21.3±1
				1	0	0	22.64	22±1
				1	24	0	22.51	22±1
				1	49	0	22.55	22±1
		1732.5	QPSK	25	0	1	21.38	22±1
				25	12	1	21.37	22±1
				25	24	1	21.49	22±1
405411	20475			50	0	1	21.51	22±1
10MHz	20175			1	0	1	21.54	21.3±1
				1	24	1	21.53	21.3±1
				1	49	1	21.52	21.3±1
			16QAM	25	0	2	21.47	21.3±1
				25	12	2	21.36	21.3±1
				25	24	2	21.33	21.3±1
				50	0	2	21.16	21.3±1
				1	0	0	22.95	22±1
				1	24	0	22.65	22±1
				1	49	0	22.59	22±1
			QPSK	25	0	1	22.08	22±1
				25	12	1	22.11	22±1
				25	24	1	22.14	22±1
	20250	17500		50	0	1	22.15	22±1
	20350	1750.0		1	0	1	22.12	22±1
				1	24	1	22.11	22±1
				1	49	1	22.09	22±1
			16QAM	25	0	2	21.26	22±1
				25	12	2	21.23	22±1
				25	24	2	21.29	22±1
				50	0	2	21.20	22±1



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BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
				1	0	0	22.36	22±1
				1	12	0	22.31	22±1
				1	24	0	22.26	22±1
			QPSK	12	0	1	21.95	22±1
				12	6	1	21.94	22±1
				12	11	1	21.98	22±1
	20000	4745.0		25	0	1	21.29	22±1
	20000	1715.0		1	0	1	21.27	21.3±1
				1	12	1	21.26	21.3±1
				1	24	1	21.24	21.3±1
			16QAM	12	0	2	21.16	21.3±1
				12	6	2	21.14	21.3±1
				12	11	2	21.13	21.3±1
				25	0	2	20.35	21.3±1
				1	0	0	22.99	22±1
				1	12	0	22.75	22±1
				1	24	0	22.59	22±1
		1732.5	QPSK	12	0	1	21.96	22±1
				12	6	1	21.85	22±1
				12	11	1	21.98	22±1
5 N AL I	20475			25	0	1	21.93	22±1
5MHz	20175			1	0	1	22.30	22±1
				1	12	1	22.25	22±1
				1	24	1	22.32	22±1
			16QAM	12	0	2	21.68	22±1
				12	6	2	21.64	22±1
				12	11	2	21.67	22±1
				25	0	2	21.14	22±1
				1	0	0	23.11	22.5±1
				1	12	0	22.85	22.5±1
				1	24	0	22.56	22.5±1
			QPSK	12	0	1	22.11	22.5±1
				12	6	1	22.07	22.5±1
				12	11	1	22.02	22.5±1
	20250	4750.0		25	0	1	22.13	22.5±1
	20350	1750.0		1	0	1	22.19	22±1
				1	12	1	22.16	22±1
				1	24	1	22.13	22±1
			16QAM	12	0	2	21.69	22±1
				12	6	2	21.67	22±1
				12	11	2	21.59	22±1
				25	0	2	21.23	22±1



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BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
				1	0	0	22.03	22±1
				1	7	0	22.01	22±1
				1	14	0	22.00	22±1
			QPSK	8	0	1	21.17	22±1
				8	4	1	21.40	22±1
				8	7	1	21.15	22±1
				15	0	1	21.20	22±1
	19965	1711.5		1	0	1	21.63	21.3±1
				1	7	1	21.61	21.3±1
				1	14	1	21.55	21.3±1
			16QAM	8	0	2	20.34	21.3±1
				8	4	2	20.33	21.3±1
				8	7	2	20.34	21.3±1
				15	0	2	20.41	21.3±1
				1	0	0	22.48	22±1
				1	7	0	22.45	22±1
		1732.5		1	14	0	22.44	22±1
			QPSK	8	0	1	21.41	22±1
				8	4	1	21.35	22±1
				8	7	1	21.40	22±1
20.411	20475			15	0	1	21.49	22±1
3MHz	20175			1	0	1	21.33	21.3±1
				1	7	1	21.30	21.3±1
				1	14	1	21.29	21.3±1
			16QAM	8	0	2	20.42	21.3±1
				8	4	2	20.39	21.3±1
				8	7	2	20.41	21.3±1
				15	0	2	20.47	21.3±1
				1	0	0	23.18	22.3±1
				1	7	0	23.14	22.3±1
				1	14	0	23.09	22.3±1
			QPSK	8	0	1	22.17	22.3±1
				8	4	1	22.16	22.3±1
				8	7	1	22.10	22.3±1
	20205	17525		15	0	1	22.17	22.3±1
	20385	1753.5		1	0	1	22.14	21.3±1
				1	7	1	22.12	21.3±1
				1	14	1	22.10	21.3±1
			16QAM	8	0	2	21.08	21.3±1
				8	4	2	21.07	21.3±1
				8	7	2	21.01	21.3±1
				15	0	2	21.21	21.3±1



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BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
				1	0	0	21.18	$21.3 \pm 1$
				1	2	0	21.18	$21.3 \pm 1$
				1	5	0	21.17	$21.3 \pm 1$
			QPSK	3	0	0	21.25	$21.3 \pm 1$
				3	1	0	21.24	$21.3 \pm 1$
				3	2	0	21.26	21.3±1
	19957	1710.7		6	0	1	20.40	$21.3 \pm 1$
	19957	1/10./		1	0	1	20.79	21.3±1
				1	2	1	20.80	21.3±1
				1	5	1	20.80	21.3±1
			16QAM	3	0	1	21.48	21.3±1
				3	1	1	21.41	21.3±1
				3	2	1	20.45	21.3±1
				6	0	2	20.60	21.3±1
				1	0	0	22.64	22±1
				1	2	0	22.65	22±1
			QPSK	1	5	0	22.65	22±1
		1732.5		3	0	0	22.78	22±1
				3	1	0	22.73	22±1
				3	2	0	22.71	22±1
				6	0	1	21.55	22±1
1.4MHz	20175		16QAM	1	0	1	21.49	21.3±1
				1	2	1	21.51	21.3±1
				1	5	1	21.51	21.3±1
				3	0	1	21.24	21.3±1
				3	1	1	21.25	21.3±1
				3	2	1	21.23	21.3±1
				6	0	2	20.59	21.3±1
				1	0	0	23.10	22.3±1
				1	2	0	23.10	22.3±1
				1	5	0	23.09	22.3±1
			QPSK	3	0	0	23.20	22.3±1
				3	1	0	23.21	22.3±1
				3	2	0	23.12	22.3±1
		4==		6	0	1	22.05	22.3±1
	20393	1754.3		1	0	1	22.04	21.3±1
				1	2	1	22.07	21.3±1
				1	5	1	22.08	21.3±1
			16QAM	3	0	1	21.72	21.3±1
				3	1	1	21.71	21.3±1
				3	2	1	21.68	21.3±1
				6	0	2	21.02	21.3±1



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#### **ERP & EIRP**

#### EIRP for LTE Band 4 (Part 27)

					Antenna	,	Cabla	Absoluts	
Frequency (MHz)	BW (MHz)	Modulation	RB Size/Offset	Substitut ed level (dBm)	Polarizati on	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1710.7	1.4	QPSK	1/0	15.17	V	7.95	0.79	22.33	30
1732.5	1.4	QPSK	1/0	15.19	٧	7.95	0.79	22.35	30
1754.3	1.4	QPSK	1/0	15.23	V	7.95	0.79	22.39	30
1710.7	1.4	QPSK	1/0	14.56	Н	7.95	0.79	21.72	30
1732.5	1.4	QPSK	1/0	14.58	Н	7.95	0.79	21.74	30
1754.3	1.4	QPSK	1/0	14.6	Н	7.95	0.79	21.76	30
1710.7	1.4	16-QAM	1/5	15.32	V	7.95	0.79	22.48	30
1732.5	1.4	16-QAM	1/0	15.35	٧	7.95	0.79	22.51	30
1754.3	1.4	16-QAM	1/0	15.37	٧	7.95	0.79	22.53	30
1710.7	1.4	16-QAM	1/5	14.17	Н	7.95	0.79	21.33	30
1732.5	1.4	16-QAM	1/0	14.19	Н	7.95	0.79	21.35	30
1754.3	1.4	16-QAM	1/0	14.23	Н	7.95	0.79	21.39	30
1711.5	3	QPSK	1/0	15.66	V	7.95	0.79	22.82	30
1732.5	3	QPSK	1/0	15.68	V	7.95	0.79	22.84	30
1753.5	3	QPSK	1/0	15.71	V	7.95	0.79	22.87	30
1711.5	3	QPSK	1/0	14.82	Н	7.95	0.79	21.98	30
1732.5	3	QPSK	1/0	14.83	Н	7.95	0.79	21.99	30
1753.5	3	QPSK	1/0	14.85	Н	7.95	0.79	22.01	30
1711.5	3	16-QAM	1/0	15.28	V	7.95	0.79	22.44	30
1732.5	3	16-QAM	1/0	15.3	V	7.95	0.79	22.46	30
1753.5	3	16-QAM	1/0	15.32	V	7.95	0.79	22.48	30
1711.5	3	16-QAM	1/0	14.62	Н	7.95	0.79	21.78	30
1732.5	3	16-QAM	1/0	14.65	Н	7.95	0.79	21.81	30
1753.5	3	16-QAM	1/0	14.68	Н	7.95	0.79	21.84	30
1712.5	5	QPSK	1/0	16.05	V	7.95	0.79	23.21	30
1732.5	5	QPSK	1/0	16.07	V	7.95	0.79	23.23	30
1752.5	5	QPSK	1/24	16.09	V	7.95	0.79	23.25	30
1712.5	5	QPSK	1/0	15.26	Н	7.95	0.79	22.42	30
1732.5	5	QPSK	1/0	15.28	Н	7.95	0.79	22.44	30
1752.5	5	QPSK	1/24	15.32	Н	7.95	0.79	22.48	30
1712.5	5	16-QAM	1/0	14.94	V	7.95	0.79	22.10	30
1732.5	5	16-QAM	1/0	14.95	V	7.95	0.79	22.11	30



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1752.5	5	16-QAM	1/24	14.98	V	7.95	0.79	22.14	30
1712.5	5	16-QAM	1/0	14.02	Н	7.95	0.79	21.18	30
1732.5	5	16-QAM	1/0	13.99	Н	7.95	0.79	21.15	30
1752.5	5	16-QAM	1/24	14.05	Н	7.95	0.79	21.21	30
1715	10	QPSK	1/0	15.18	٧	7.95	0.79	22.34	30
1732.5	10	QPSK	1/49	15.15	٧	7.95	0.79	22.31	30
1750	10	QPSK	1/0	15.17	٧	7.95	0.79	22.33	30
1715	10	QPSK	1/0	14.38	Н	7.95	0.79	21.54	30
1732.5	10	QPSK	1/49	14.42	Н	7.95	0.79	21.58	30
1750	10	QPSK	1/0	14.45	Н	7.95	0.79	21.61	30
1715	10	16-QAM	1/0	15.58	V	7.95	0.79	22.74	30
1732.5	10	16-QAM	1/49	15.62	٧	7.95	0.79	22.78	30
1750	10	16-QAM	1/0	15.6	V	7.95	0.79	22.76	30
1715	10	16-QAM	1/0	14.76	Н	7.95	0.79	21.92	30
1732.5	10	16-QAM	1/49	14.72	Н	7.95	0.79	21.88	30
1750	10	16-QAM	1/0	14.78	Н	7.95	0.79	21.94	30
1717.5	15	QPSK	1/0	16.74	V	7.95	0.79	23.90	30
1732.5	15	QPSK	1/74	16.71	٧	7.95	0.79	23.87	30
1747.5	15	QPSK	1/0	16.76	V	7.95	0.79	23.92	30
1717.5	15	QPSK	1/0	15.88	Н	7.95	0.79	23.04	30
1732.5	15	QPSK	1/74	15.82	Н	7.95	0.79	22.98	30
1747.5	15	QPSK	1/0	15.79	Н	7.95	0.79	22.95	30
1717.5	15	16-QAM	1/0	16.28	٧	7.95	0.79	23.44	30
1732.5	15	16-QAM	1/74	16.26	V	7.95	0.79	23.42	30
1747.5	15	16-QAM	1/0	16.2	V	7.95	0.79	23.36	30
1717.5	15	16-QAM	1/0	15.88	Н	7.95	0.79	23.04	30
1732.5	15	16-QAM	1/74	15.79	Н	7.95	0.79	22.95	30
1747.5	15	16-QAM	1/0	15.8	Н	7.95	0.79	22.96	30
1720	20	QPSK	1/99	17.01	V	7.95	0.79	24.17	30
1732.5	20	QPSK	1/99	16.95	V	7.95	0.79	24.11	30
1745	20	QPSK	1/0	16.98	V	7.95	0.79	24.14	30
1720	20	QPSK	1/99	16.05	Н	7.95	0.79	23.21	30
1732.5	20	QPSK	1/99	15.97	Н	7.95	0.79	23.13	30
1745	20	QPSK	1/0	15.94	Н	7.95	0.79	23.10	30
1720	20	16-QAM	1/99	16.23	V	7.95	0.79	23.39	30
1732.5	20	16-QAM	1/99	16.28	V	7.95	0.79	23.44	30
1745	20	16-QAM	1/0	16.31	V	7.95	0.79	23.47	30
1720	20	16-QAM	1/99	15.66	Н	7.95	0.79	22.82	30



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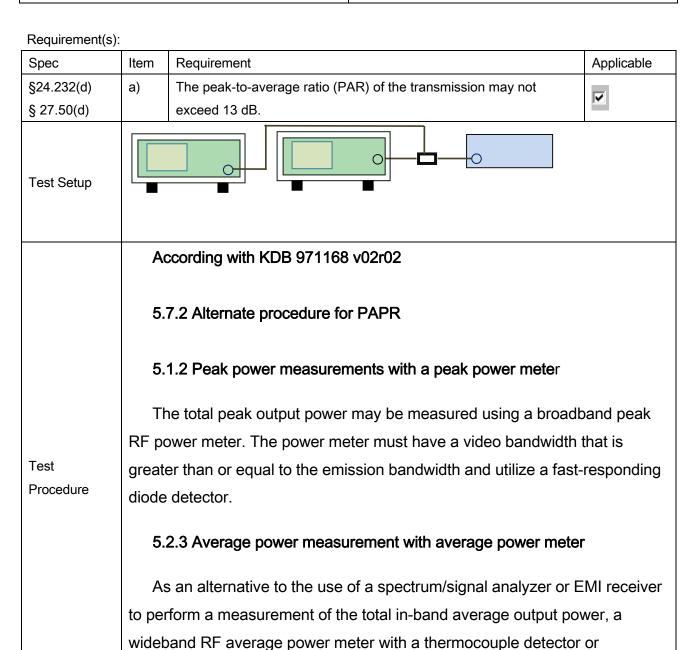
1732.5	20	16-QAM	1/99	15.71	Н	7.95	0.79	22.87	30
1745	20	16-QAM	1/0	15.65	Н	7.95	0.79	22.81	30



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#### 6.3 Peak-Average Ratio

Temperature	25°C
Relative Humidity	54%
Atmospheric Pressure	1002mbar
Test date :	June 02, 2016
Tested By:	Loren Luo



equivalent can be used under certain conditions

If the EUT can be configured to transmit continuously (i.e., the burst duty



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	cycle ≥ 98%) and at all times the EUT is transmitting at is maximum output
	power level, then a conventional wide-band RF power meter can be used.
	If the EUT cannot be configured to transmit continuously (i.e., the burst duty
	cycle < 98%), then there are two options for the use of an average power
	meter. First, a gated average power meter can be used to perform the
	measurement if the gating parameters can be adjusted such that the power is
	measured only over active transmission bursts at maximum output power
	levels. A conventional average power meter can also be used if the
	measured burst duty cycle is constant (i.e., duty cycle variations are less than
	± 2 percent) by performing the measurement over the on/off burst cycles and
	then correcting (increasing) the measured level by a factor equal to
	10log(1/duty cycle)
Remark	
Result	Pass Fail

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	V N/A



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### LTE Band 4 (part 27)

D)4//441 (=)	F	Mode		Conducted P	Conducted Power (dBm)		
BW(MHz)	Frequency (MHz)	Mode	Modulation	Peak	Average	Ratio (PAR)	
4.4	4722 F	DD 4/0	QPSK	23.68	22.64	1.04	
1.4	1732.5	RB 1/0	16QAM	22.98	21.49	1.49	
3	4720 5	DD 4/0	QPSK	23.47	22.48	0.99	
3	1732.5	RB 1/0	16QAM	22.59	21.33	1.26	
_	1732.5	RB 1/0	QPSK	23.45	22.99	0.46	
5			16QAM	22.77	22.3	0.47	
40	1732.5	DD 4/0	QPSK	23.64	22.64	1	
10		RB 1/0	16QAM	22.38	21.54	0.84	
45	4720 5	DD 4/0	QPSK	23.88	22.65	1.23	
15	1732.5	RB 1/0	16QAM	22.79	21.47	1.32	
20	4722 F	DD 4/6	QPSK	23.68	22.67	1.01	
20	1732.5	RB 1/0	16QAM	23.15	21.57	1.58	



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### 6.4 Occupied Bandwidth

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1004mbar
Test date :	June 04, 2016
Tested By :	Loren Luo

#### Requirement(s):

Spec	Item	Requirement	Applicable
§2.1049,	a)	99% Occupied Bandwidth(kHz)	<b>\rightarrow</b>
§22.917,			
§22.905	b)	26 dB Bandwidth(kHz)	
§24.238			
§27.53(a)			
Test Setup			
	-	The EUT was connected to Spectrum Analyzer and Base	Station via
Test		power divider.	
Procedure	-	The 99% and 26 dB occupied bandwidth (BW) of the mide	dle channel
		for the highest RF powers.	
Remark			
Result	Pa	rss Fail	

Test Data

Yes

N/A

Test Plot

Yes (See below)

N/A



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#### LTE Band 4 (Part 27)

	banu 4 (Par	Frequency		99% Occupied	26 dB Bandwidth	
BW(MHz)	Channel	(MHz)	Modulation	Bandwidth (MHz)	(MHz)	
			16QAM	1.1040	1.301	
1.4	1.4 19957	1710.7	QPSK	1.0995	1.296	
			16QAM	1.1054	1.282	
1.4	20175	1732.5	QPSK	1.1069	1.279	
	00000	4754.0	16QAM	1.1010	1.279	
1.4	20393	1754.3	QPSK	1.1096	1.287	
	40005	4744.5	16QAM	2.7421	3.123	
3	19965	1711.5	QPSK	2.7517	3.111	
	00475	4700 5	16QAM	2.7429	3.099	
3	20175	1732.5	QPSK	2.7528	3.094	
	00005	4750.5	16QAM	2.7513	3.100	
3	20385	1753.5	QPSK	2.7484	3.116	
-	40075	75 1712.5	16QAM	4.5136	5.071	
5	19975		QPSK	4.5364	5.081	
-	00475	1732.5	16QAM	4.5433	5.097	
5	5 20175		QPSK	4.5264	5.112	
-	5 20375	1752.5	16QAM	4.5482	5.114	
5			QPSK	4.5270	5.092	
40		4745	16QAM	9.1018	10.337	
10	20000	1715	QPSK	9.0957	10.250	
40	20475	20175 1732.5	16QAM	9.0851	10.387	
10	20175		QPSK	9.0706	10.265	
10	20250	1750	16QAM	9.0642	10.273	
10	20350	20350 1750	QPSK	9.0908	10.431	
15	00005	4747 E	16QAM	13.5206	15.091	
15	20025	0025 1717.5	QPSK	13.5424	15.118	
45	00/77	00475	4720 E	16QAM	13.4877	15.082
15	20175	1732.5	QPSK	K 13.4752 15.033	15.033	
45	20225	4747 E	16QAM	13.4996	15.062	
15	20325	20325 1747.5	QPSK	13.4852	15.103	



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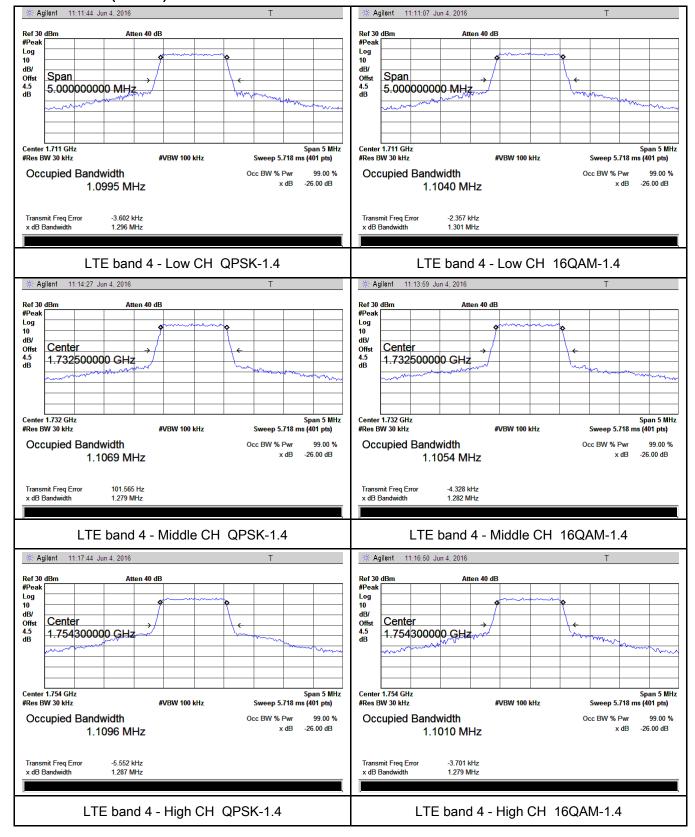
20 200	20050	1720	16QAM	17.9573	19.709
20	20 20050		QPSK	17.9129	19.430
20	00.475	00475 4700.5	16QAM	17.9644	19.618
20 201	20175	20175 1732.5	QPSK	17.8986	19.664
20 20300	200 4745	16QAM	17.9111	19.728	
	20300	1745	QPSK	17.9400	19.785



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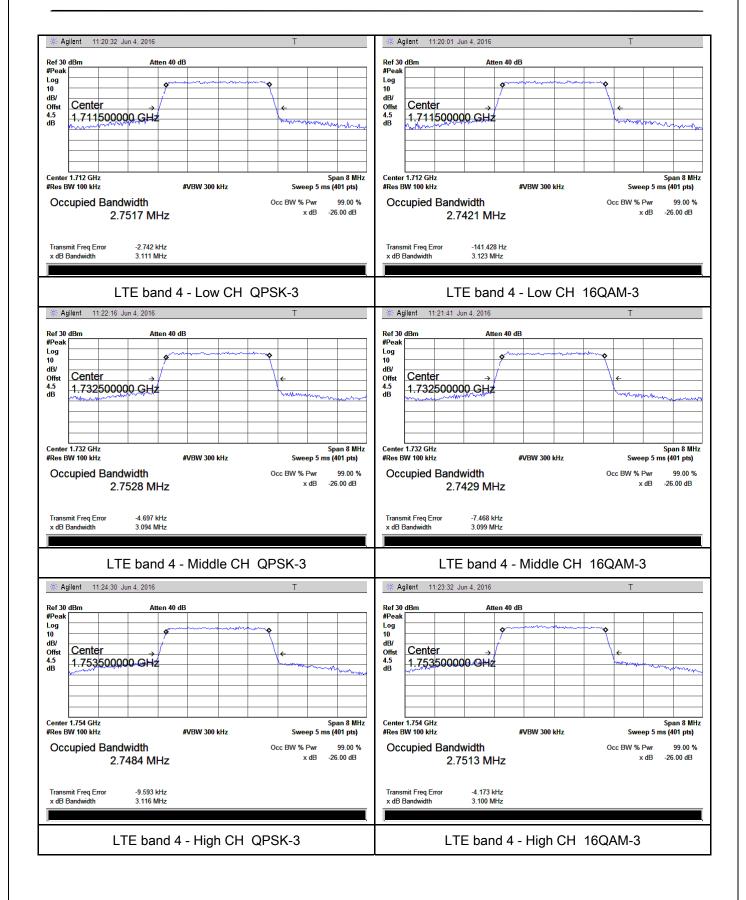
#### **Test Plots**

#### LTE Band 4 (Part 27)



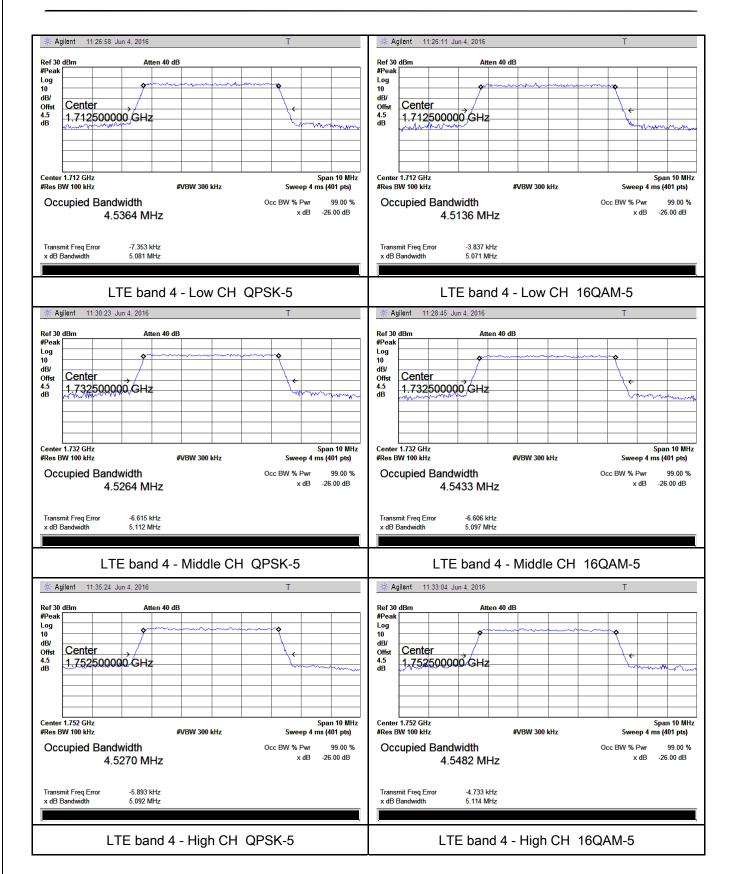


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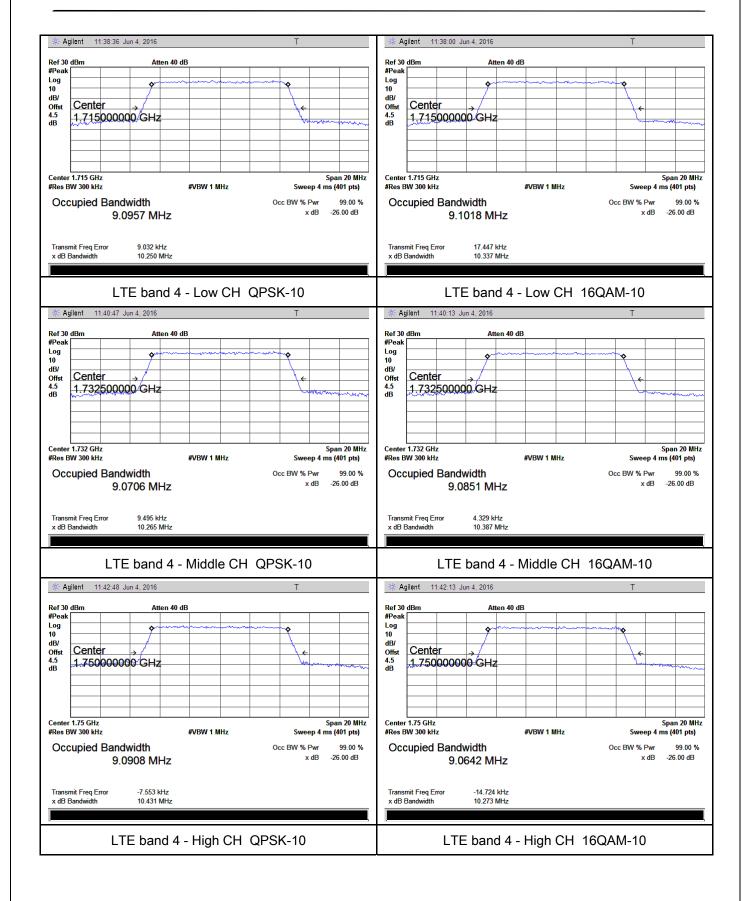


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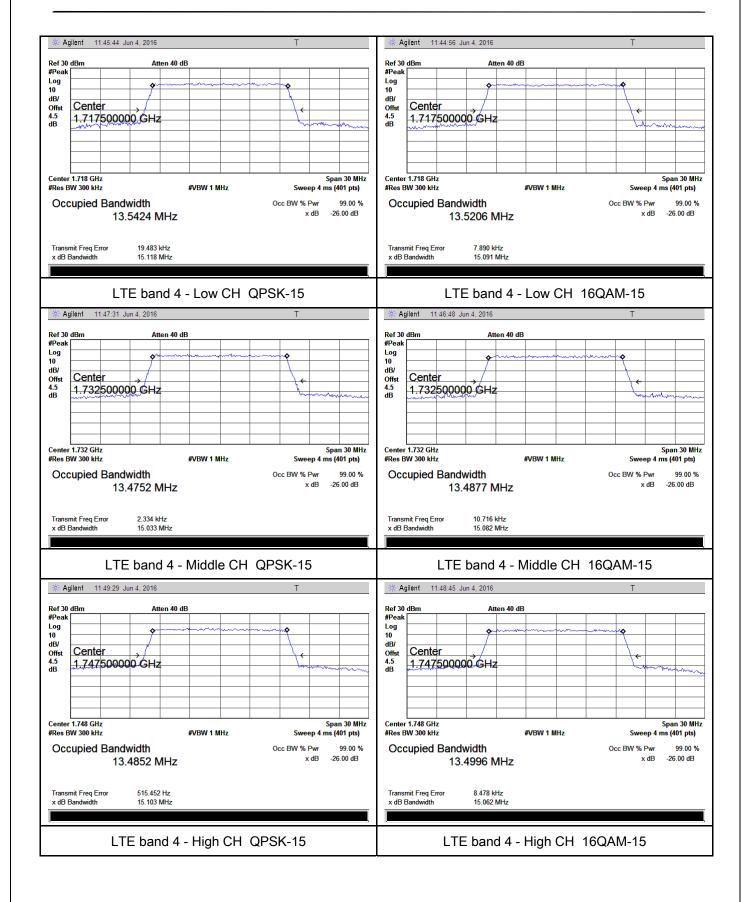


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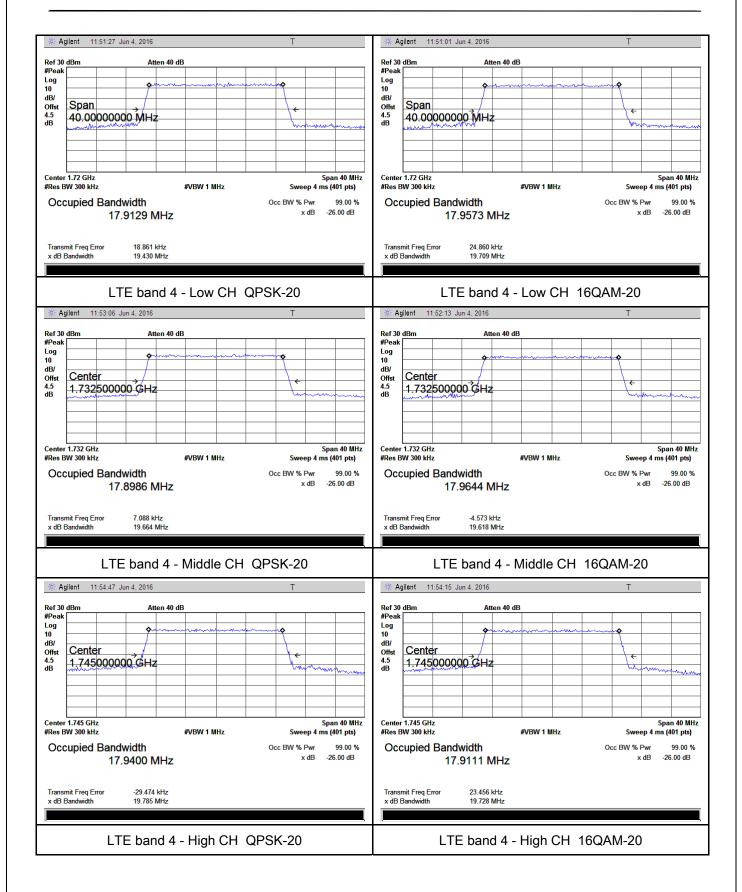


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### 6.5 Spurious Emissions at Antenna Terminals

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	June 06, 2016
Tested By:	Loren Luo

#### Requirement(s):

Spec	Item	Requirement	Applicable
§2.1051,		The power of any emission outside of the authorized	
§22.917(a)&	3)	operating frequency ranges must be lower than the	
§24.238(a)	a)	transmitter power (P) by a factor of at least 43 + 10 log	
§ 27.53(h)		(P) dB	
Test Setup	•		
Test Procedure	<ul> <li>The EUT was connected to Spectrum Analyzer and Base Station via power divider.</li> <li>The Band Edges of low and high channels for the highest RF powers were measured.</li> <li>Setting RBW as roughly BW/100.</li> </ul>		
Remark			
Result	<b>▽</b> Pa	iss Fail	

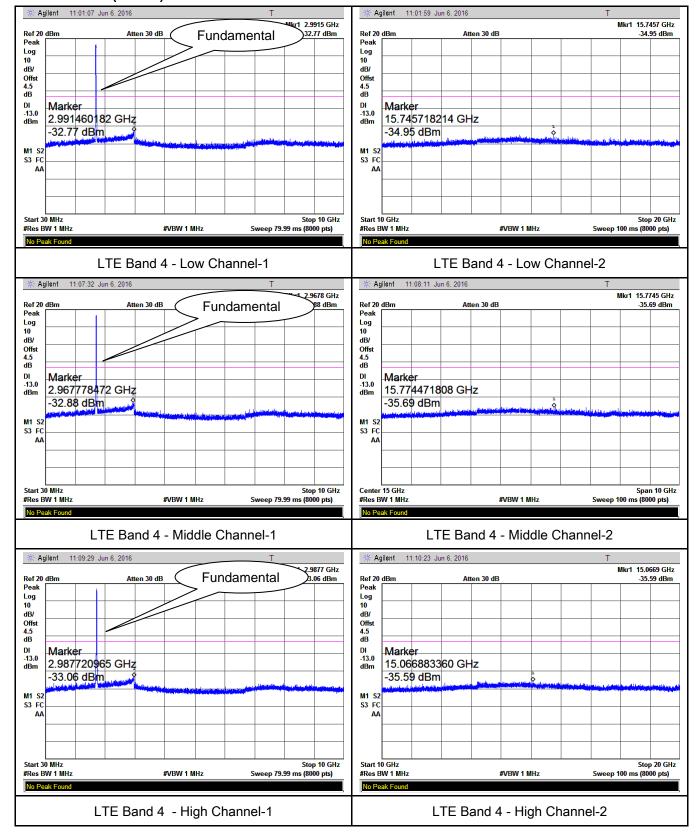
Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	$\square_{N/A}$



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### Test Plots 30MHz-5GHz

#### LTE Band 4 (Part27) result





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### 6.6 Spurious Radiated Emissions

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	June 06, 2016
Tested By:	Loren Luo

Requirement(s):				
Spec	Item	Requirement	Applicable	
§2.1053, §22.917 & §24.238 § 27.53(h)	a)	<u> </u>		
Test setup	including its 10th harmonic.  Ant. Tower Support Units  Ground Plane Test Receiver			
Test Procedure	<ol> <li>The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.</li> <li>The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.</li> <li>Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.         Sample Calculation:         EUT Field Strength = Raw Amplitude (dBμV/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)     </li> </ol>			



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Remark				
Result	Pass	Fail		
Test Data Test Plot	Yes Yes (See below)	□ <sub>N/A</sub>		



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### LTE Band 4(Part27) result

#### Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3440	-46.85	V	10.06	2.52	-39.31	-13	-26.31
3440	-47.26	Н	10.06	2.52	-39.72	-13	-26.72
572.8	-48.91	V	6.5	0.36	-42.77	-13	-29.77
843.1	-49.89	Н	6.8	0.44	-43.53	-13	-30.53

#### Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3465	-47.11	٧	10.09	2.52	-39.54	-13	-26.54
3465	-47.65	Н	10.09	2.52	-40.08	-13	-27.08
570.6	-50.29	V	6.5	0.36	-44.15	-13	-31.15
843.5	-50.33	Н	6.8	0.44	-43.97	-13	-30.97

### High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3490	-46.91	٧	10.09	2.52	-39.34	-13	-26.34
3490	-46.82	Н	10.09	2.52	-39.25	-13	-26.25
572.2	-49.86	V	6.5	0.36	-43.72	-13	-30.72
843.7	-50.31	Н	6.8	0.44	-43.95	-13	-30.95

#### Note:

- 1, The testing has been conformed to 10\*1752.5MHz=17,525MHz
- 2, All other emissions more than 30 dB below the limit
- $3, X ext{-}Axis, Y ext{-}Axis and -Axis were investigated. The results above show only the worst case.}$



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## 6.7 Band Edge

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	June 06, 2016
Tested By :	Loren Luo

#### Requirement(s):

Spec	Item	Requirement	Applicable
§22.917(a) §24.238(a) § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.	<b>V</b>
Test setup			
Procedure	1 1	The EUT was connected to Spectrum Analyzer and Base S power divider.  The Band Edges of low and high channels for the highest R were measured. Setting RBW as roughly BW/100.	
Remark			
Result	<b>☑</b> Pa	ss Fail	

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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### LTE Band 4 (Part 27) result

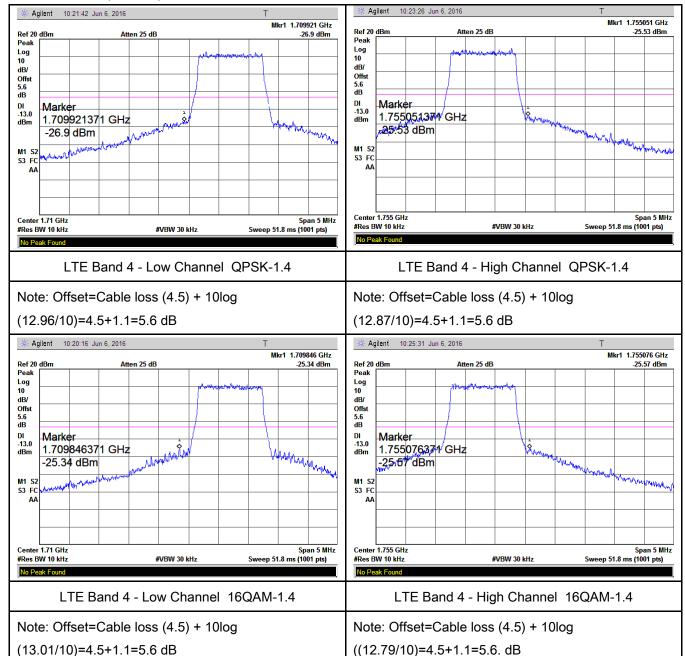
BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
4.4	40057	4740.7	QPSK	-26.90	-13
1.4	19957	1710.7	16QAM	-25.34	-13
4.4	00000	4754.0	QPSK	-25.53	-13
1.4	20393	1754.3	16QAM	-27.57	-13
2	400CE	1711.5	QPSK	-19.21	-13
3	19965	1711.5	16QAM	-22.26	-13
3	20205	4752 F	QPSK	-22.73	-13
3	20385	1753.5	16QAM	-22.47	-13
5	1007F	4740 5	QPSK	-19.92	-13
5	19975	1712.5	16QAM	-20.81	-13
E	5 20375	4750 F	QPSK	-22.07	-13
5		1752.5	16QAM	-24.77	-13
10	20000	1715	QPSK	-30.00	-13
10	20000	1715	16QAM	-30.13	-13
10	20350	1750	QPSK	-29.35	-13
10	20350	1750	16QAM	-30.45	-13
15	20025	1717.5	QPSK	-21.63	-13
15	20025	1717.5	16QAM	-23.60	-13
15	20225	4747 E	QPSK	-23.08	-13
15	20325	1747.5	16QAM	-25.74	-13
20		1720	QPSK	-25.92	-13
20	20050	1720	16QAM	-23.18	-13
20	20300	1745	QPSK	-25.41	-13
20	20300	1740	16QAM	-26.06	-13



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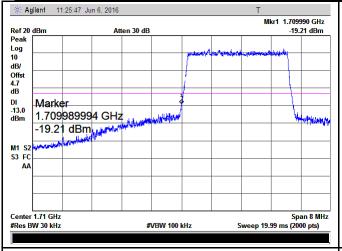
#### **Test Plots**

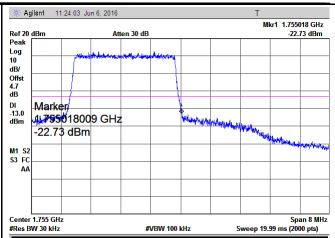
#### LTE Band 4 (Part 27)





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LTE Band 4 - Low Channel QPSK-3

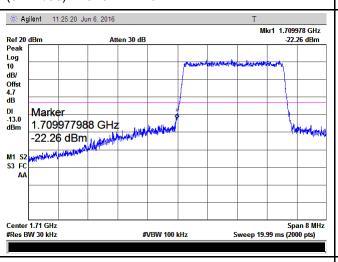
LTE Band 4 - High Channel QPSK-3

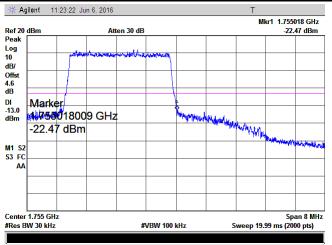
Note: Offset=Cable loss (4.5) + 10log

Note: Offset=Cable loss (4.5) + 10log

(31.16/30)=4.5+0.2=4.7 dB

(31.11/30)=4.5+0.2=4.7 dB





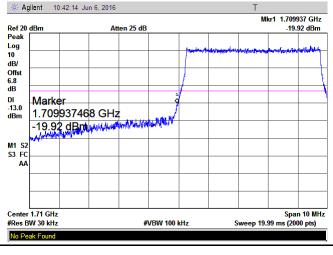
LTE Band 4 - Low Channel 16QAM-3

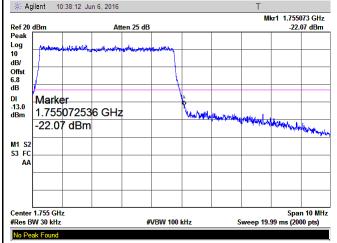
LTE Band 4 - High Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log

(31.23/30)=4.5+0.2=4.7 dB

Note: Offset=Cable loss (4.5) + 10log (31/30)=4.5+0.1=4.6 dB





LTE Band 4 - Low Channel QPSK-5

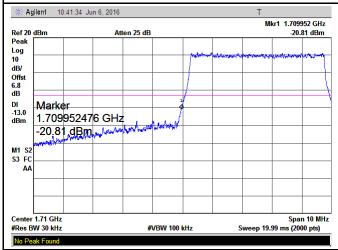
LTE Band 4 - High Channel QPSK-5

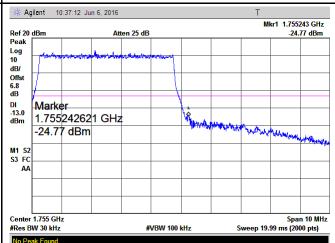


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Note: Offset=Cable loss (4.5) + 10log (50.81/30)=4.5+2.3=6.8 dB

Note: Offset=Cable loss (4.5) + 10log (50.92/30)=4.5+2.3=6.8 dB



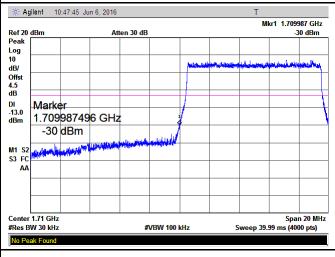


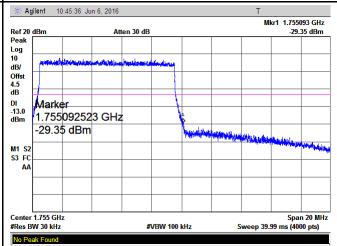
LTE Band 4 - Low Channel 16QAM-5

LTE Band 4 - High Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log (50.71/30)=4.5+2.3=6.8 dB

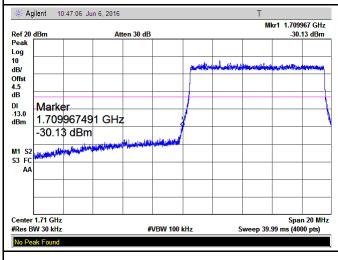
Note: Offset=Cable loss (4.5) + 10log (51.14/30)=4.5+2.3=6.8 dB

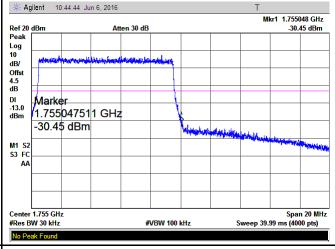




LTE Band 4 - Low Channel QPSK-10

LTE Band 4 - High Channel QPSK-10



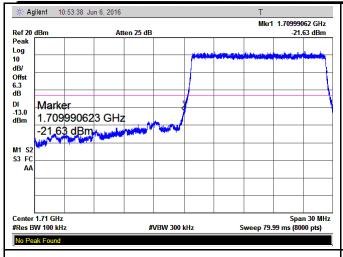


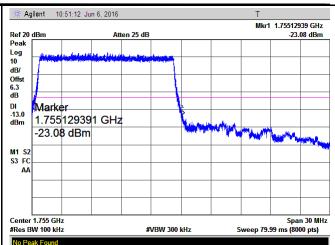
LTE Band 4 - Low Channel 16QAM-10

LTE Band 4 - High Channel 16QAM-10



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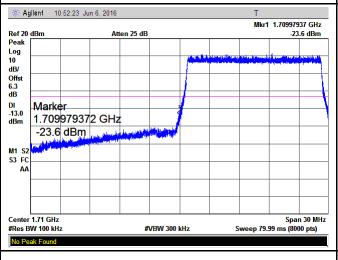


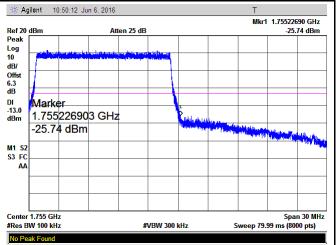
LTE Band 4 - Low Channel QPSK-15

LTE Band 4 - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log (151.18/100)=4.5+1.8=6.3 dB

Note: Offset=Cable loss (4.5) + 10log (151.03/100)=4.5+1.8=6.3 dB



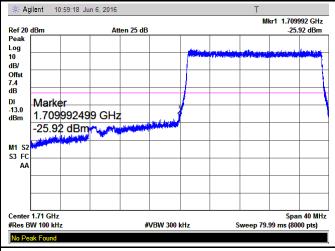


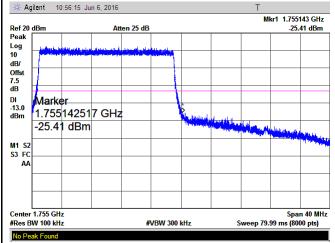
LTE Band 4 - Low Channel 16QAM-15

LTE Band 4 - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log (150.91/100)=4.5+1.8=6.3 dB

Note: Offset=Cable loss (4.5) + 10log (150.62/100)=4.5+1.8=6.3 dB





LTE Band 4 - Low Channel QPSK-20

LTE Band 4 - High Channel QPSK-20

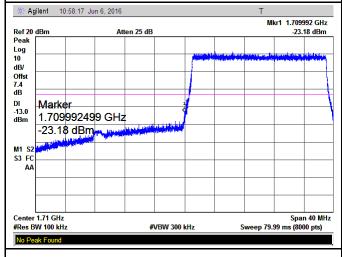


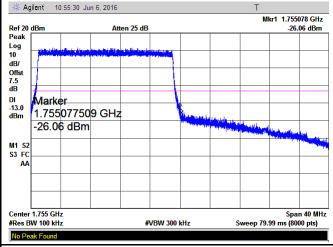
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Note: Offset=Cable loss (4.5) + 10log

(194.3/100)=4.5+2.9=7.4 dB

Note: Offset=Cable loss (4.5) + 10log (197.85/100)=4.5+3.0=7.5 dB





LTE Band 4 - Low Channel 16QAM-20

Note: Offset=Cable loss (4.5) + 10log

(197.09/100)=4.5+2.9=7.4dB

LTE Band 4 - High Channel 16QAM-20

Note: Offset=Cable loss (4.5) + 10log

(197.28/100)=4.5+3.0=7.5 dB



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## 6.8 Band Edge 27.53(m)

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	
Tested By :	Loren Luo

#### Requirement(s):

Spec	Requirement	Applicable
§27.53(m)	According to FCC 27.53(m)(4) specified that power of any emmission ouutside of the channel edge must be attenuated below the transmitting power(P) by a factor shall be not less than 43+10log (P)dB at the channel edge, the limit of emission equal to -13dBm. And 55+10log (P)dB at 5.5MHz from the channel edges, the limit of emission equal to -25dBm. In the 1MHz bands immediately outside and adjacent to the frenqency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.	
Test Setup		
Test Procedure	<ul> <li>The EUT was connected to Spectrum Analyzer and Base Station divider.</li> <li>The 99% and 26 dB occupied bandwidth (BW) of the middle change of the highest RF powers.</li> </ul>	·
Remark		
Result	Pass Fail N/A	

Test Data	Yes	✓ <sub>N/A</sub>
Test Plot	Yes (See below)	✓ <sub>N/A</sub>



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# 6.9 Frequency Stability

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	June 06, 2016
Tested By:	Loren Luo

#### Requirement(s):

Spec	Item	Requirement			Applicable	
		According to §22.3 the Public Mobile S tolerances given in Frequency Toleran Services	Services mus Table below	et be maintained w	rithin the	
		Frequency Range	Base, fixed	Mobile ≤ 3  watts	Mobile ≤ 3  watts	
§2.1055,		(MHz) 25 to 50	(ppm) 20.0	(ppm) 20.0	(ppm) 50.0	
§22.355 & s (		to 450	5.0	5.0	50.0	<b>~</b>
	a)	450 to 512	2.5	5.0	5 0	
		821 to 896	1.5	2.5	2.5	
		928 to 929.	5.0	N/A	N/A	
		929 to 960.	1.5	N/A	N/A	
		2110 to 2220	10.0	N/A	N/A	
		According to §24.2	-			
		ensure that the fun frequency block.	damentai en	nissions stay withi	n the authorized	
		According to §27.5	4 The frequ	ency stability shal	Lhe sufficient to	
		ensure that the fun	•	,		
		bands of operation			<del>-</del>	



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Test setup	
Procedure	A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.  Limit: The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.
Remark	Frequency Stability versus Temperature: The Frequency tolerance of the carrier signal shall be maintained within 2.5ppm of the operating frequency over a temperature variation of -10°C to +55°C at normal supply voltage.
Result	Pass Fail

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	✓ <sub>N/A</sub>



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### LTE Band 4 (Part 27) result

Middle Channel, f <sub>o</sub> = 1732.5 MHz				
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		17	0.0098	2.5
0		15	0.0087	2.5
10		10	0.0058	2.5
20		8	0.0046	2.5
30	3.7	11	0.0063	2.5
40		13	0.0075	2.5
50		17	0.0098	2.5
55		19	0.0110	2.5
25	4.2	11	0.0063	2.5
25	3.5	13	0.0075	2.5



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## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
RF Conducted Test					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/16/2015	09/15/2016	<u>&lt;</u>
Power Splitter	1#	1#	09/01/2015	08/31/2016	V
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/24/2016	V
Wideband Radio Communication Tester	CMW500	120906	03/27/2016	03/26/2017	<b>\</b>
Temperature/Humidity Chamber	UHL-270	001	10/09/2015	10/08/2016	<b>\(\)</b>
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	•
RF Power Sensor	Dare RPR3006C/P/W	AY554013	09/17/2015	09/16/2016	V
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	<u>&lt;</u>
Microwave Preamplifier (0.5 ~ 18GHz)	PAM-118	443008	09/01/2015	08/31/2016	<b>\</b>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	<b>\(\right\)</b>
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/21/2015	09/20/2016	V
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/24/2015	09/23/2016	V
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	<b>&lt;</b>
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/17/2015	09/16/2016	V
Tunable Notch Filter	3NF-800/1000- S	AA4	09/01/2015	08/31/2016	V



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Tunable Notch Filter	3NF-	AM 4	09/01/2015	08/31/2016	V
	1000/2000-S				



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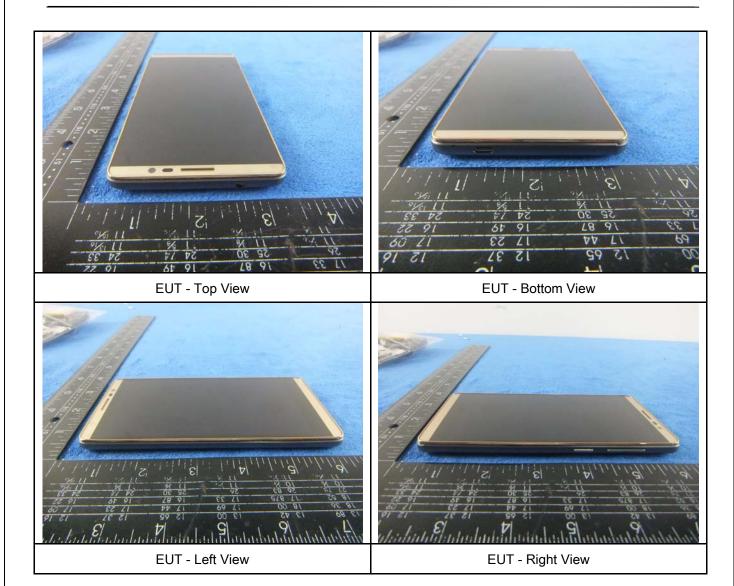
### Annex B. EUT And Test Setup Photographs

### Annex B.i. Photograph: EUT External Photo





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#### Annex B.ii. Photograph: EUT Internal Photo



ADMIRAL

Alvin flavors de l'an excess

Fau de l'access

Capital

Capital

Alvin flavors de l'an excess

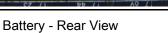
Fau de l'access

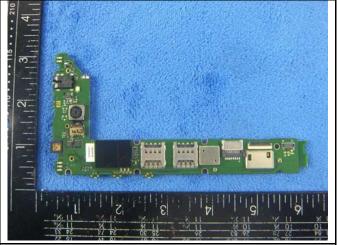
Capital

Cover Off - Top View 1

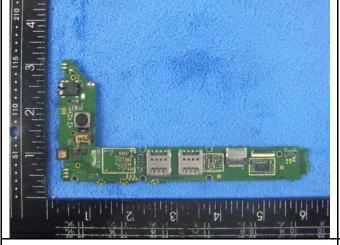
Battery - Front View



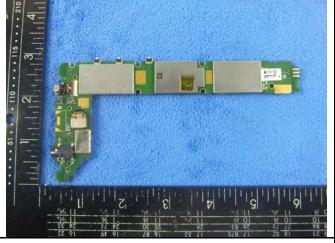




Mainboard with Shielding - Front View



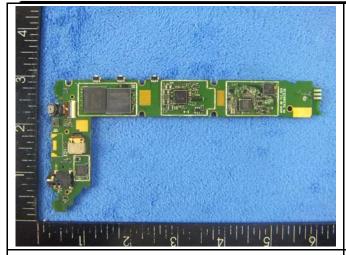
Mainboard without Shielding - Front View



Mainboard - Rear View



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LCD - Front View

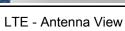


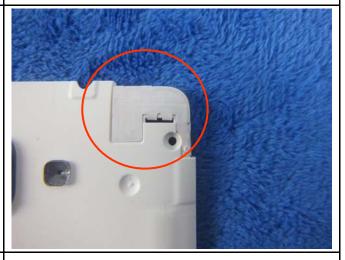


LCD - Rear View

GSM/PCS/UMTS-FDD Antenna View





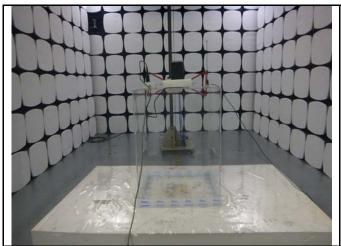


WIFI/BT/BLE/GPS - Antenna View



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## Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

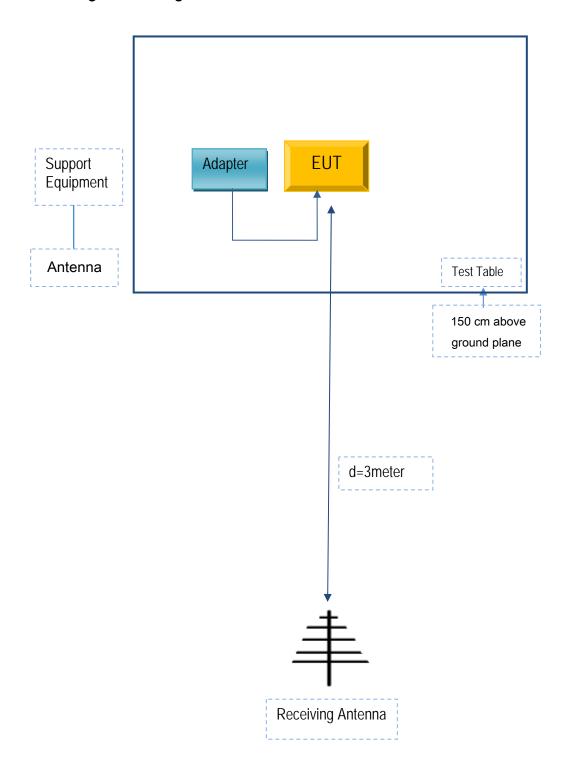


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### Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

### **Block Configuration Diagram for Radiated Emissions**





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### Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

### Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Shenzhen Konka Telecommunications	Adapter	HJ-050100-AR	HJ16C1C00004
Technology Co., Ltd.			

#### Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	HJ16C1C00004



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### Annex C.ii. EUT OPERATING CONKITIONS

N/A



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# Annex D. User Manual / Block Diagram / Schematics / Partlist

See attachment



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## Annex E. DECLARATION OF SIMILARITY

N/A