RF TEST REPORT



Report No.: 16071296-FCC-R1
Supersede Report No.: N/A

Applicant	Posh Mobile Limited			
Product Name	Revel Max	Revel Max LTE		
Model No.	L551			
Serial No.	L551A,L55	1B,L551C		
Test Standard		FCC Part 22(H):2015 ;FCC Part 24(E):2015; FCC Part 27:2015; ANSI/TIA-603-D: 2010		
Test Date	November	November 18 to December 04, 2016		
Issue Date	December 05, 2016			
Test Result	Pass Fail			
Equipment compl	Equipment complied with the specification			
Equipment did not comply with the specification				
LOVEN LUO David Huang				
Loren Luo Test Engineer			l Huang ked By	

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

Issued by:

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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
16071296-FCC-R1	NONE	Original	December 05, 2016

2. Customer information

Applicant Name	Posh Mobile Limited	
Applicant Add	1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung Street, Hung Hom,	
	Kowloon, Hong Kong	
Manufacturer	Shenzhen Posh Mobile Limited	
Manufacturer Add	Room 6H, Block C, NEO Building, Chegongmiao, Futian District, Shenzhen, P.R.	
	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: Revel Max LTE

Main Model: L551

Serial Model: L551A,L551B,L551C

Date EUT received: November 17, 2016

Test Date(s): November 18 to December 04, 2016

Equipment Category : PCE

GSM850: -1.27dBi PCS1900: 0.84dBi

UMTS-FDD Band V: -1.27dBi UMTS-FDD Band IV: 0.84dBi UMTS-FDD Band II: 0.84dBi

LTE Band II: 0.54dBi

Antenna Gain: LTE Band IV: 0.84dBi

LTE Band VII: 0.9dBi LTE Band XII: -2.02dBi LTE Band XVII: -2.06dBi

WIFI: 0.87dBi

Bluetooth/BLE: 0.87dBi

GPS: 0.89dBi

Antenna Type: PIFA antenna

Type of Modulation:

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 V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

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

RX: 1932.4 ~ 1987.6 MHz

RF Operating Frequency (ies):

Maximum Conducted

LTE Band II TX: $1850.7 \sim 1909.3 \text{MHz}$; RX: $1930.7 \sim 1989.3 \text{ MHz}$ LTE Band IV TX: $1710.7 \sim 1754.3 \text{ MHz}$; RX: $2110.7 \sim 2154.3 \text{ MHz}$ LTE Band VII TX: $2502.5 \sim 2567.5 \text{ MHz}$; RX: $2622.5 \sim 2687.5 \text{ MHz}$

LTE Band XII TX:699.7 ~ 715.3 MHz; RX : 729.7~ 745.3MHz LTE Band XVII TX: 706.5 ~ 713.5 MHz; RX : 736.5 ~ 743.5 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

GSM Vioce:GSM850: 31.54 dBm

PCS1900: 28.43 dBm

GPRS:GSM850: 31.51 dBm

PCS1900: 28.40dBm

EGPRS(MCS1):GSM850: 31.51dBm

PCS1900: 28.50 dBm

EGPRS(MCS5):GSM850: 25.44 dBm

PCS1900: 22.88 dBm

AV Power to Antenna: RMC:UMTS-FDD Band V: 22.94 dBm

UMTS-FDD Band II: 21.89 dBm

UMTS-FDD Band IV: 21.57 dBm

HSDPA:UMTS-FDD Band V: 21.56 dBm

UMTS-FDD Band II: 20.58 dBm

UMTS-FDD Band IV: 20.39 dBm

HSUPA:UMTS-FDD Band V: 21.89 dBm

UMTS-FDD Band II: 20.98 dBm

UMTS-FDD Band IV: 20.47 dBm



Number of Channels:

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GSM Vioce:GSM850: 28.24 dBm / ERP

PCS1900: 29.06 dBm / EIRP

GPRS:GSM850: 28.22 dBm / ERP

PCS1900: 29.10 dBm / EIRP

EGPRS(MCS5):GSM850: 22.54 dBm / ERP

PCS1900: 24.03 dBm / EIRP

RMC:UMTS-FDD Band V: 19.66dBm / ERP

ERP/EIRP: UMTS-FDD Band II: 22.66 dBm / EIRP

UMTS-FDD Band IV: 22.39 dBm / EIRP

HSUPA:UMTS-FDD Band V: 18.16 dBm / ERP

UMTS-FDD Band II: 21.45 dBm / EIRP

UMTS-FDD Band IV: 21.13 dBm / EIRP

HSDPA:UMTS-FDD Band V: 18.31 dBm / ERP

UMTS-FDD Band II: 21.53 dBm / EIRP

UMTS-FDD Band IV: 21.18 dBm / EIRP

GSM 850: 124CH

PCS1900: 299CH

UMTS-FDD Band V: 102CH

UMTS-FDD Band IV: 202CH

UMTS-FDD Band II: 277CH

WIFI:802.11b/g/n(20M): 11CH

WIFI:802.11n(40M):7CH

Bluetooth: 79CH

BLE: 40CH

GPS:1CH

Port: USB Port, Earphone Port

Adapter:

Model: A88-501500

Input: AC100-240V~50/60Hz,0.35A

Input Power:
Output: DC 5.0V,1.5A

Battery:

Spec: 3.85V,2820mAh



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Trade Name : Posh

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

FCC ID: 2AG8KL551



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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 Douge	Compliance	
§ 27.50(c.10); § 27.50(d.4)	RF Output Power	Compliance	
§ 24.232 (d) ; § 27.50(d)	Peak-Average Ratio	Compliance	
§ 2.1049; § 22.905; § 22.917;	000/ 9 26 dB Ossumiad Banduidth	Camplianas	
§ 24.238; § 27.53(a.5)	99% & -26 dB Occupied Bandwidth	Compliance	
§ 2.1051; § 22.917(a);	Courieus Emissions et Antonna Torreiral	Camplianas	
§ 24.238(a); § 27.53(h)	Spurious Emissions at Antenna Terminal	Compliance	
§ 2.1053; § 22.917(a);	Field Chromath of Courieus Dediction	Camplianas	
§ 24.238(a); § 27.53(h)	Field Strength of Spurious Radiation	Compliance	
§ 22.917(a); § 24.238(a);	Out of hand aminains David Educ	Compliance	
§ 27.53(h)	Out of band emission, Band Edge		
§ 2.1055; § 22.355; § 24.235;	Frequency stability vs. temperature	0	
§ 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: 16071296-FCC-H.



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6.2 RF Output Power

Temperature	25°C
Relative Humidity	52%
Atmospheric Pressure	1028mbar
Test date :	November 28, 2016
Tested By :	Loren Luo

Requirement(s):

Requirement(s):			
Spec	Item	Requirement	Applicable
§22.913 (a)	a)	ERP:38.45dBm	~
§24.232 (c)	b)	EIRP:33dBm	~
§27.50 (c)	c)	EIRP: 30dBm	>
Test Setup	Base Station EUT		
Test Procedure	For Conducted Power: The transmitter output port was connected to base station. Set EUT at maximum power through base station. Select lowest, middle, and highest channels for each band and different test mode. For ERP/EIRP: According with KDB 971168 v02r02 The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. 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. The frequency range up to tenth harmonic of the fundamental		d it was laced on the f 3 meters ler to identify st was



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	frequency was investigated.
	- 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	□ _{N/A}
Test Plot Yes	(See below) N/A



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Conducted Power

GSM Mode:

Burst Average Power (dBm);								
Band		GSM850 PCS1900						
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	/	1850.2	1880	1909.8	1
GSM Voice (1 uplink),GMSK	31.39	31.47	31.54	31±1	28.12	28.43	28.24	28±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	31.38	31.45	31.51	31±1	28.11	28.40	28.23	28±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	30.46	30.52	30.59	30±1	27.28	27.74	27.76	27±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK	27.47	27.49	27.6	27±1	23.89	24.68	24.86	24±1
EGPRS Multi-Slot Class 8 (1 uplink) GMSK MCS1	31.36	31.44	31.51	31±1	28.19	28.50	28.32	28±1
EGPRS Multi-Slot Class 10 (2 uplink) GMSK MCS1	30.45	30.50	30.57	30±1	27.31	27.75	27.76	27±1
EGPRS Multi-Slot Class 12 (4 uplink) GMSK MCS1	27.47	27.51	27.62	27±1	23.83	24.68	24.95	24±1
EGPRS Multi-Slot Class 8 (1 uplink) 8PSK MCS5	25.24	25.33	25.44	25±1	22.32	22.88	23.32	23±1
EGPRS Multi-Slot Class 10 (2 uplink) 8PSK MCS5	25.06	25.16	25.26	25±1	22.15	22.71	22.96	22±1
EGPRS Multi-Slot Class 12 (4 uplink) 8PSK MCS5	24.14	24.25	24.30	24±1	21.34	21.99	22.04	22±1



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Remark:

GPRS, CS1 coding scheme.

EGPRS, MCS1 coding scheme.

EGPRS, MCS5 coding scheme.

 $\label{eq:multi-Slot} \textit{Class 8} \; , \; \textit{Support Max 4 downlink}, \; \textit{1 uplink} \; , \; \textit{5 working link} \;$

Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link

Multi-Slot Class 12 , Support Max 4 downlink, 4 uplink , 5 working link



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UMTS Mode:

UMTS-FDD Band V

Band/ Time Slot	Channel	Frequency	Average power	Tune up
configuration	oname:	1 104401109	(dBm)	Power tolerant
RMC	4132	826.4	22.94	22±1
12.2kbps	4175	835	22.69	22±1
12.20093	4233	846.6	22.91	22±1
HSDPA	4132	826.4	21.46	21.3±1
Subtest1	4175	835	21.38	21.3±1
Sublest	4233	846.6	21.46	21.3±1
HCDDA	4132	826.4	21.56	21.3±1
HSDPA Subtest2	4175	835	21.35	21.3±1
Sublesiz	4233	846.6	21.35	21.3±1
11000	4132	826.4	21.36	21.3±1
HSDPA Subtest3	4175	835	21.33	21.3±1
Sublesis	4233	846.6	21.36	21.3±1
11000	4132	826.4	21.34	21.3±1
HSDPA	4175	835	21.45	21.3±1
Subtest4	4233	846.6	21.46	21.3±1
HOUDA	4132	826.4	21.59	21.3±1
HSUPA Subtest1	4175	835	21.58	21.3±1
Sublest	4233	846.6	21.67	21.3±1
1101154	4132	826.4	21.89	21.3±1
HSUPA	4175	835	21.45	21.3±1
Subtest2	4233	846.6	21.56	21.3±1
1101154	4132	826.4	21.59	21.3±1
HSUPA	4175	835	21.58	21.3±1
Subtest3	4233	846.6	21.74	21.3±1
1101124	4132	826.4	21.60	21.3±1
HSUPA	4175	835	21.53	21.3±1
Subtest4	4233	846.6	21.45	21.3±1
	4132	826.4	21.44	21.3±1
HSUPA	4175	835	21.52	21.3±1
Subtest5	4233	846.6	21.43	21.3±1



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UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC	9262	1852.4	21.33	21.3±1
	9400	1880	21.78	21.3±1
12.2kbps	9538	1907.6	21.89	21.3±1
LICDDA	9262	1852.4	20.35	21.3±1
HSDPA Subtest1	9400	1880	20.36	21.3±1
Sublesti	9538	1907.6	20.33	21.3±1
LIODDA	9262	1852.4	20.49	21.3±1
HSDPA	9400	1880	20.56	21.3±1
Subtest2	9538	1907.6	20.46	21.3±1
	9262	1852.4	20.58	21.3±1
HSDPA	9400	1880	20.36	21.3±1
Subtest3	9538	1907.6	20.34	21.3±1
	9262	1852.4	20.54	21.3±1
HSDPA	9400	1880	20.56	21.3±1
Subtest4	9538	1907.6	20.34	21.3±1
LIGUEA	9262	1852.4	20.36	21.3±1
HSUPA	9400	1880	20.39	21.3±1
Subtest1	9538	1907.6	20.45	21.3±1
	9262	1852.4	20.84	21.3±1
HSUPA	9400	1880	20.87	21.3±1
Subtest2	9538	1907.6	20.98	21.3±1
LIGUEA	9262	1852.4	20.46	21.3±1
HSUPA	9400	1880	20.76	21.3±1
Subtest3	9538	1907.6	20.71	21.3±1
LIGUIDA	9262	1852.4	20.92	21.3±1
HSUPA	9400	1880	20.74	21.3±1
Subtest4	9538	1907.6	20.62	21.3±1
1101124	9262	1852.4	20.61	21.3±1
HSUPA Subtrate	9400	1880	20.56	21.3±1
Subtest5	9538	1907.6	20.73	21.3±1



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UMTS-FDD Band IV

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
DMC	1313	1712.6	21.47	21.3±1
RMC	1413	1732.6	21.20	21.3±1
12.2kbps	1512	1752.4	21.57	21.3±1
HCDDA	1313	1712.6	20.39	21.3±1
HSDPA Subtest1	1413	1732.6	20.36	21.3±1
Sublest I	1512	1752.4	20.34	21.3±1
HCDDA	1313	1712.6	20.35	21.3±1
HSDPA Subtest2	1413	1732.6	20.34	21.3±1
Sublesiz	1512	1752.4	20.39	21.3±1
HODDA	1313	1712.6	20.36	21.3±1
HSDPA	1413	1732.6	20.31	21.3±1
Subtest3	1512	1752.4	20.33	21.3±1
HODDA	1313	1712.6	20.32	21.3±1
HSDPA Subtest4	1413	1732.6	20.34	21.3±1
Sublesi4	1512	1752.4	20.36	21.3±1
HOUDA	1313	1712.6	20.45	21.3±1
HSUPA	1413	1732.6	20.45	21.3±1
Subtest1	1512	1752.4	20.47	21.3±1
HOUDA	1313	1712.6	20.41	21.3±1
HSUPA Subtest2	1413	1732.6	20.43	21.3±1
Sublesiz	1512	1752.4	20.44	21.3±1
LICLIDA	1313	1712.6	20.45	21.3±1
HSUPA	1413	1732.6	20.41	21.3±1
Subtest3	1512	1752.4	20.34	21.3±1
LICUIDA	1313	1712.6	20.36	21.3±1
HSUPA	1413	1732.6	20.35	21.3±1
Subtest4	1512	1752.4	20.31	21.3±1
LICUIDA	1313	1712.6	20.36	21.3±1
HSUPA Subtost5	1413	1732.6	20.33	21.3±1
Subtest5	1512	1752.4	20.33	21.3±1



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ERP & EIRP

GSM Voice

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	21.76	V	6.8	0.53	28.03	38.45
824.2	20.26	Н	6.8	0.53	26.53	38.45
836.6	21.83	V	6.8	0.53	28.10	38.45
836.6	20.35	Н	6.8	0.53	26.62	38.45
848.8	21.87	V	6.9	0.53	28.24	38.45
848.8	20.38	Н	6.9	0.53	26.75	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	21.85	V	7.88	0.85	28.88	33
1850.2	20.43	Н	7.88	0.85	27.46	33
1880	22.03	V	7.88	0.85	29.06	33
1880	20.54	Н	7.88	0.85	27.57	33
1909.8	21.93	V	7.86	0.85	28.94	33
1909.8	20.49	Н	7.86	0.85	27.50	33



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GPRS:

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	21.73	V	6.8	0.53	28.00	38.45
824.2	20.23	Н	6.8	0.53	26.50	38.45
836.6	21.81	V	6.8	0.53	28.08	38.45
836.6	20.33	Н	6.8	0.53	26.60	38.45
848.8	21.85	V	6.9	0.53	28.22	38.45
848.8	20.36	Н	6.9	0.53	26.73	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	21.83	V	7.88	0.85	28.86	33
1850.2	20.41	Н	7.88	0.85	27.44	33
1880	22.07	V	7.88	0.85	29.10	33
1880	20.58	Н	7.88	0.85	27.61	33
1909.8	21.95	V	7.86	0.85	28.96	33
1909.8	20.51	Н	7.86	0.85	27.52	33



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EGPRS (MCS5):

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	16.05	V	6.8	0.53	22.32	38.45
824.2	14.73	Н	6.8	0.53	21.00	38.45
836.6	16.13	V	6.8	0.53	22.40	38.45
836.6	14.81	Н	6.8	0.53	21.08	38.45
848.8	16.17	V	6.9	0.53	22.54	38.45
848.8	14.86	Н	6.9	0.53	21.23	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)		
1850.2	16.13	V	7.88	0.85	23.16	33		
1850.2	14.49	Н	7.88	0.85	21.52	33		
1880	16.73	V	7.88	0.85	23.76	33		
1880	15.24	Н	7.88	0.85	22.27	33		
1909.8	17.02	V	7.86	0.85	24.03	33		
1909.8	15.54	Н	7.86	0.85	22.55	33		



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ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	13.25	V	6.8	0.53	19.52	38.45
826.4	12.53	Н	6.8	0.53	18.80	38.45
835	13.01	V	6.8	0.53	19.28	38.45
835	12.38	Н	6.8	0.53	18.65	38.45
846.6	13.29	V	6.9	0.53	19.66	38.45
846.6	12.58	Н	6.9	0.53	18.95	38.45

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	15.12	V	7.88	0.85	22.15	33
1852.4	14.23	Н	7.88	0.85	21.26	33
1880	15.57	V	7.88	0.85	22.60	33
1880	14.64	Н	7.88	0.85	21.67	33
1907.6	15.65	V	7.86	0.85	22.66	33
1907.6	14.71	Н	7.86	0.85	21.72	33

EIRP for UMTS-FDD Band IV (Part 27H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	15.37	V	7.76	0.82	22.31	30
1712.4	14.18	Н	7.76	0.82	21.12	30
1740	15.11	V	7.76	0.82	22.05	30
1740	13.99	Н	7.76	0.82	20.93	30
1752.6	15.47	V	7.74	0.82	22.39	30
1752.6	14.28	Н	7.74	0.82	21.20	30



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ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	11.74	V	6.8	0.53	18.01	38.45
826.4	10.83	Н	6.8	0.53	17.10	38.45
835	11.68	V	6.8	0.53	17.95	38.45
835	10.78	Н	6.8	0.53	17.05	38.45
846.6	11.79	V	6.9	0.53	18.16	38.45
846.6	10.88	Н	6.9	0.53	17.25	38.45

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	14.29	V	7.88	0.85	21.32	33
1852.4	13.35	Н	7.88	0.85	20.38	33
1880	14.42	V	7.88	0.85	21.45	33
1880	13.51	Н	7.88	0.85	20.54	33
1907.6	14.35	V	7.86	0.85	21.36	33
1907.6	13.42	Н	7.86	0.85	20.43	33

EIRP for UMTS-FDD Band IV (Part 27H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	14.07	V	7.76	0.82	21.01	30
1712.4	13.33	Н	7.76	0.82	20.27	30
1740	14.14	V	7.76	0.82	21.08	30
1740	13.35	Н	7.76	0.82	20.29	30
1752.6	14.21	V	7.74	0.82	21.13	30
1752.6	13.48	Н	7.74	0.82	20.40	30



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ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	11.73	V	6.8	0.53	18.00	38.45
826.4	10.82	Н	6.8	0.53	17.09	38.45
835	11.83	V	6.8	0.53	18.10	38.45
835	10.92	Н	6.8	0.53	17.19	38.45
846.6	11.94	V	6.9	0.53	18.31	38.45
846.6	11.03	Н	6.9	0.53	17.40	38.45

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	14.37	V	7.88	0.85	21.40	33
1852.4	13.46	Н	7.88	0.85	20.49	33
1880	14.45	V	7.88	0.85	21.48	33
1880	13.54	Н	7.88	0.85	20.57	33
1907.6	14.52	V	7.86	0.85	21.53	33
1907.6	13.63	Н	7.86	0.85	20.64	33

EIRP for UMTS-FDD Band IV (Part 27H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	14.13	V	7.76	0.82	21.07	30
1712.4	13.31	Н	7.76	0.82	20.25	30
1740	14.24	V	7.76	0.82	21.18	30
1740	13.42	Н	7.76	0.82	20.36	30
1752.6	14.18	V	7.74	0.82	21.10	30
1752.6	13.38	Н	7.74	0.82	20.30	30



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6.3 Peak-Average Ratio

Temperature	25°C
Relative Humidity	52%
Atmospheric Pressure	1028mbar
Test date :	November 28, 2016
Tested By:	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§24.232(d)	a)	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.	<u><</u>
§ 27.50(d)		exceed 13 db.	
Test Setup	Ba	EUT Spectrum Analyzer	

According with KDB 971168 v02r02

5.7.2 Alternate procedure for PAPR

5.1.2 Peak power measurements with a peak power meter

The total peak output power may be measured using a broadband peak RF power meter. The power meter must have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

Test Procedure

5.2.3 Average power measurement with average power meter

As an alternative to the use of a spectrum/signal analyzer or EMI receiver to perform a measurement of the total in-band average output power, a wideband RF average power meter with a thermocouple detector or equivalent can be used under certain conditions

If the EUT can be configured to transmit continuously (i.e., the burst duty cycle ≥ 98%) and at all times the EUT is transmitting at is maximum output



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	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	□ _{N/A}
Test Plot	Yes (See below)	✓ _{N/A}



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GSM: GSM 1900 PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1850.2	30.16	28.12	2.04
1880	30.49	28.43	2.06
1909.8	30.31	28.24	2.07

GPRS 1900 PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1850.2	30.14	28.11	2.03
1880	30.45	28.40	2.05
1909.8	30.28	28.23	2.05

EGPRS (MSC5) 1900 PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1850.2	25.31	22.32	2.99
1880	24.89	22.88	2.01
1909.8	25.37	23.32	2.05



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RMC: UMTS-FDD Band II PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1852.4	23.81	21.33	2.48
1880	23.84	21.78	2.06
1907.6	23.95	21.89	2.06

UMTS-FDD Band IV PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1712.4	22.49	21.47	1.02
1740	22.35	21.2	1.15
1752.6	22.62	21.57	1.05

HSUPA: UMTS-FDD Band II PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1852.4	23.45	20.36	3.09
1880	23.48	20.39	3.09
1907.6	23.49	20.45	3.04

UMTS-FDD Band IV PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1712.4	21.69	20.39	1.30
1740	22.13	20.36	1.77
1752.6	21.98	20.34	1.64



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HSDPA: UMTS-FDD Band II PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1852.4	23.41	20.35	3.06
1880	23.45	20.36	3.09
1907.6	23.51	20.33	3.18

UMTS-FDD Band IV PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1712.4	21.68	20.45	1.23
1740	21.73	20.45	1.28
1752.6	21.79	20.47	1.32



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6.4 Occupied Bandwidth

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	November 23, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item Requirement		Applicable
§2.1049,	a)	a) 99% Occupied Bandwidth(kHz)	
§22.917,			V
§22.905	b)	26 dB Bandwidth(kHz)	
§24.238			~
§27.53(a)			
Test Setup	Base Station Spectrum Analyzer		
	- 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 middle channel		
	for the highest RF powers.		
Remark			
Result	Pass Fail		

Test Data
Yes
N/A
Test Plot
Yes (See below)
N/A



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GSM Voice:

Cellular Band (Part 22H) result

Chanal	Frequency	99% Occupied	26 dB Bandwidth
Channel	(MHz)	Bandwidth (kHz)	(kHz)
128	824.2	245.4454	316.816
190	836.6	247.4183	320.911
251	848.8	246.8879	319.176

PCS Band (Part 24E) result

Channel	Frequency	99% Occupied	26 dB Bandwidth
	(MHz)	Bandwidth (kHz)	(kHz)
512	1850.2	246.8806	321.604
661	1880.0	246.6225	316.663
810	1909.8	246.2328	320.438

GPRS:

Cellular Band (Part 22H) result

Channel	Frequency	99% Occupied	26 dB Bandwidth
	(MHz)	Bandwidth (kHz)	(kHz)
128	824.2	246.3950	316.284
190	836.6	247.3970	323.643
251	848.8	245.7516	313.724

PCS Band (Part 24E) result

Channal	Frequency	99% Occupied	26 dB Bandwidth
Channel	(MHz)	Bandwidth (kHz)	(kHz)
512	1850.2	247.9719	318.802
661	1880.0	243.6255	315.465
810	1909.8	246.2682	321.896



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EGPRS (MCS 5):

Cellular Band (Part 22H) result

Channel	Frequency	99% Occupied	26 dB Bandwidth
	(MHz)	Bandwidth (kHz)	(kHz)
128	824.2	249.1556	325.629
190	836.6	247.8317	316.042
251	848.8	248.7436	319.374

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	243.9938	317.340
661	1880.0	245.5390	314.520
810	1909.8	244.1826	320.332



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RMC:

UMTS-FDD Band V (Part 22H)

· · ·			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.2028	4.877
4175	835.0	4.2334	4.871
4233	846.6	4.1980	4.877

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.2245	4.929
9400	1880.0	4.4034	4.903
9538	1907.6	4.2095	4.886

UMTS-FDD Band IV (Part 27)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.2160	4.891
1413	1733	4.2206	4.913
1512	1752	4.2049	4.880



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HSUPA:

UMTS-FDD Band V (Part 22H)

	•		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.6	4.2000	4.885
4175	835.0	4.2266	4.912
4233	846.6	4.2031	4.887

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.4465	4.929
9400	1880.0	4.2094	4.903
9538	1907.6	4.1917	4.861

UMTS-FDD Band IV (Part 27)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.2261	4.923
1413	1733	4.2150	4.902
1512	1752	4.2047	4.871



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HSDPA:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.2014	4.884
4175	835.0	4.2006	4.858
4233	846.6	4.2155	4.882

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.2142	4.901
9400	1880.0	4.2201	4.885
9538	1907.6	4.2085	4.855

UMTS-FDD Band IV (Part 27)

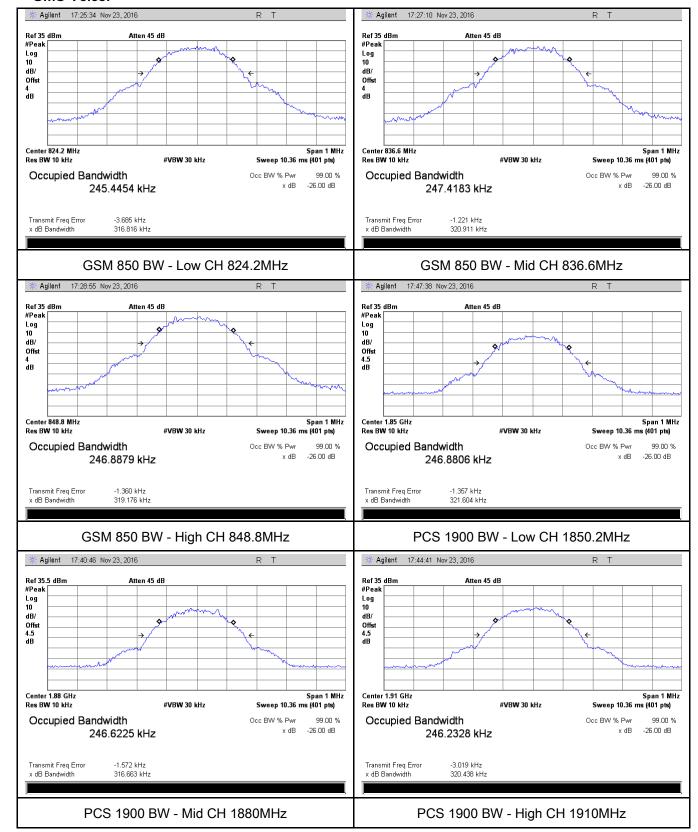
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.1998	4.904
1413	1733	4.2115	4.861
1512	1752	4.2059	4.913



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Test Plots

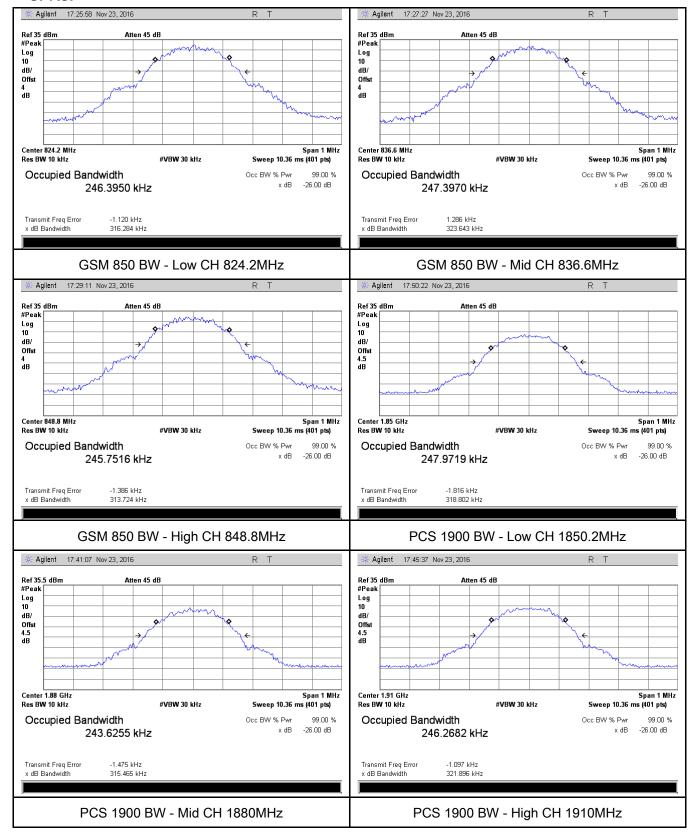
GMS Voice:





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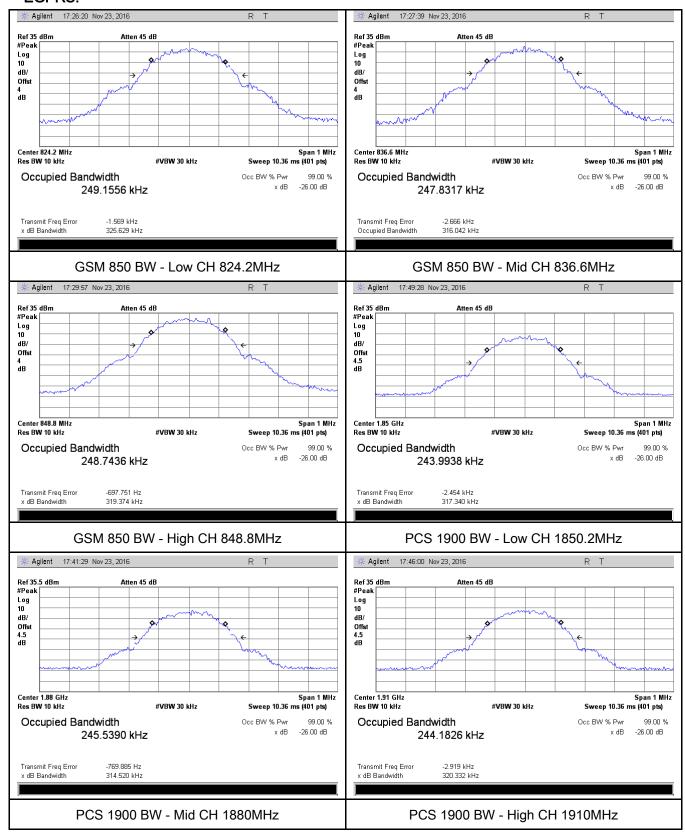
GPRS:





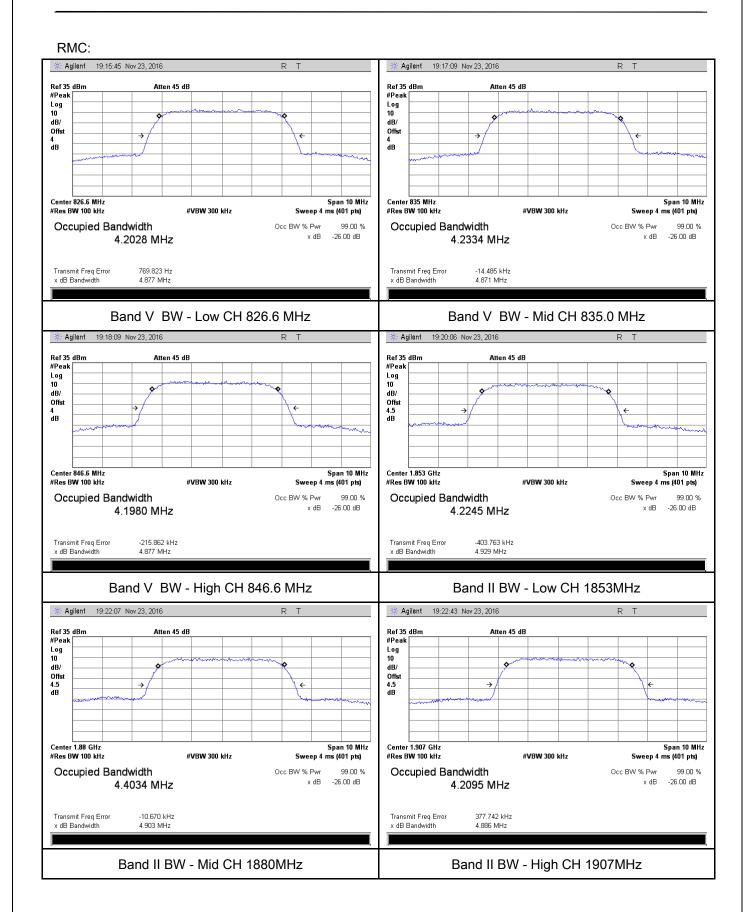
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EGPRS:



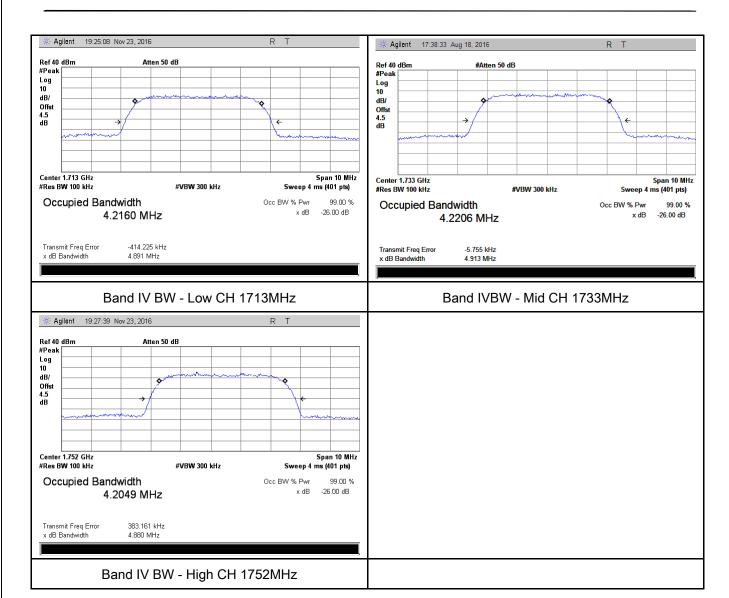


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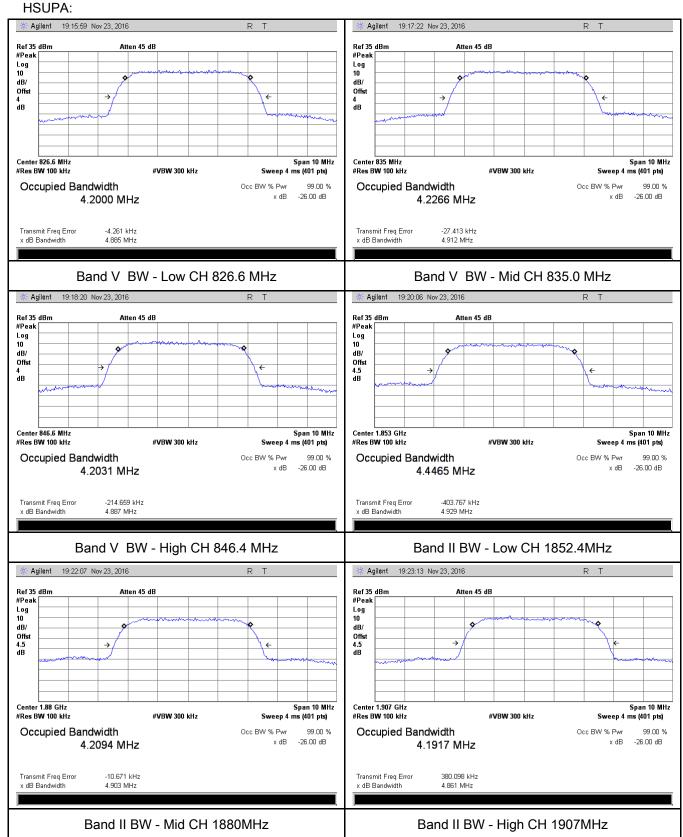


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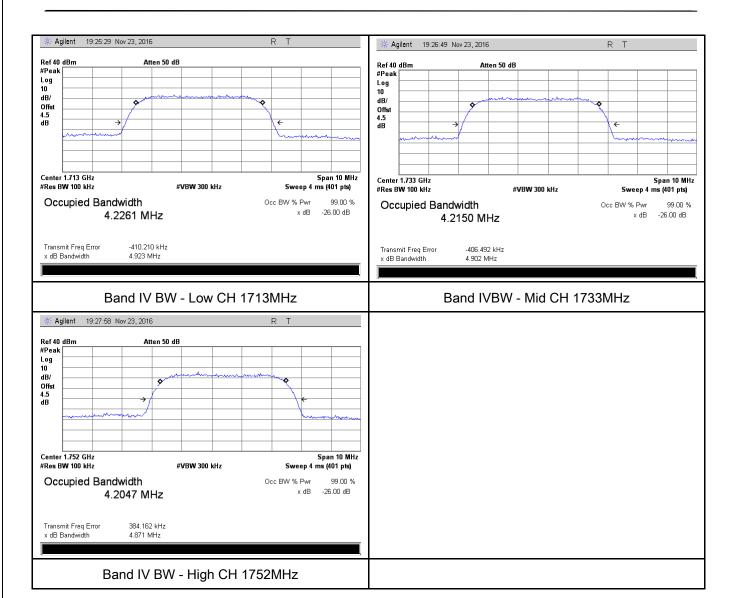


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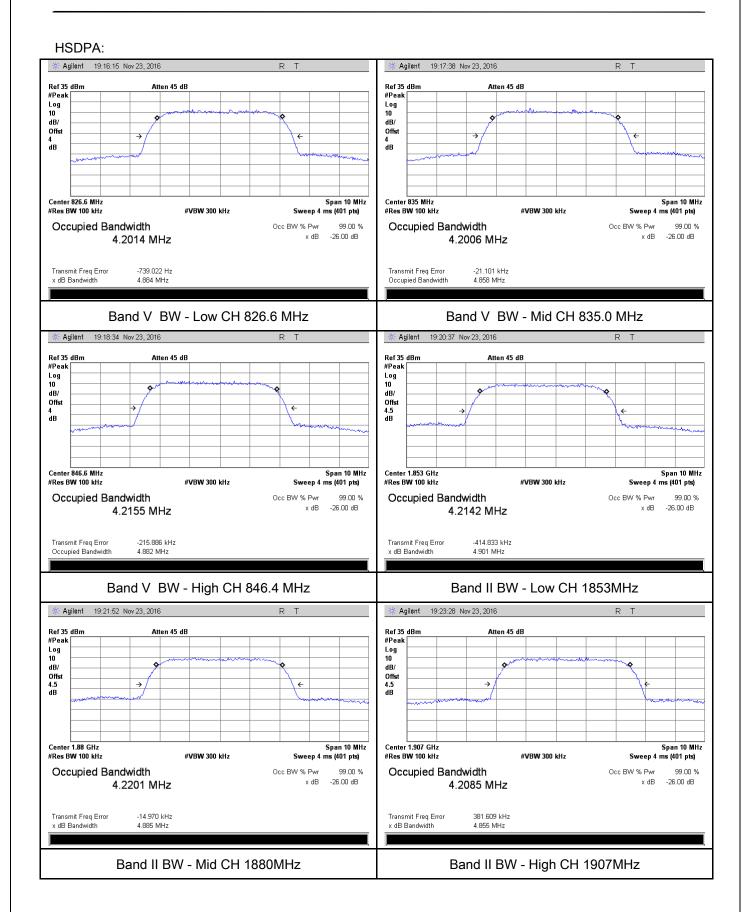


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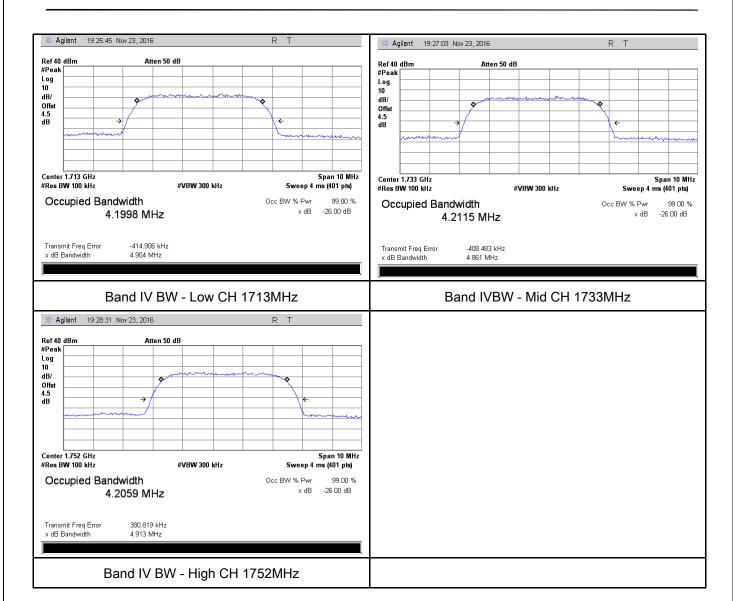


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6.5 Spurious Emissions at Antenna Terminals

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	November 23&24, 2016
Tested By :	Loren Luo

Requirement(s):

Requirement(s).			
Spec	Item	Requirement	Applicable
§2.1051,		The power of any emission outside of the authorized	
§22.917(a)&	a)	operating frequency ranges must be lower than the	V
§24.238(a)		transmitter power (P) by a factor of at least 43 + 10 log	
§ 27.53(h)		(P) dB	
Test Setup	B	EUT Spectrum Analyzer	
Test Procedure	-	The EUT was connected to Spectrum Analyzer and Basevia power divider. The Band Edges of low and high channels for the highest powers were measured. Setting RBW as roughly BW/100.	
Remark			
Result	☑ Pa	ss Fail	

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}

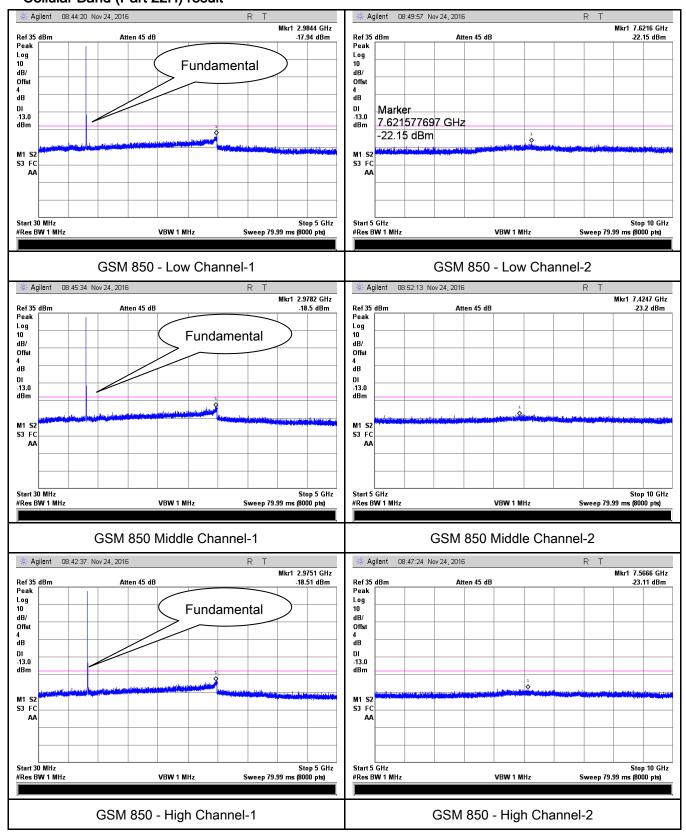


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Test Plots

GSM Voice:

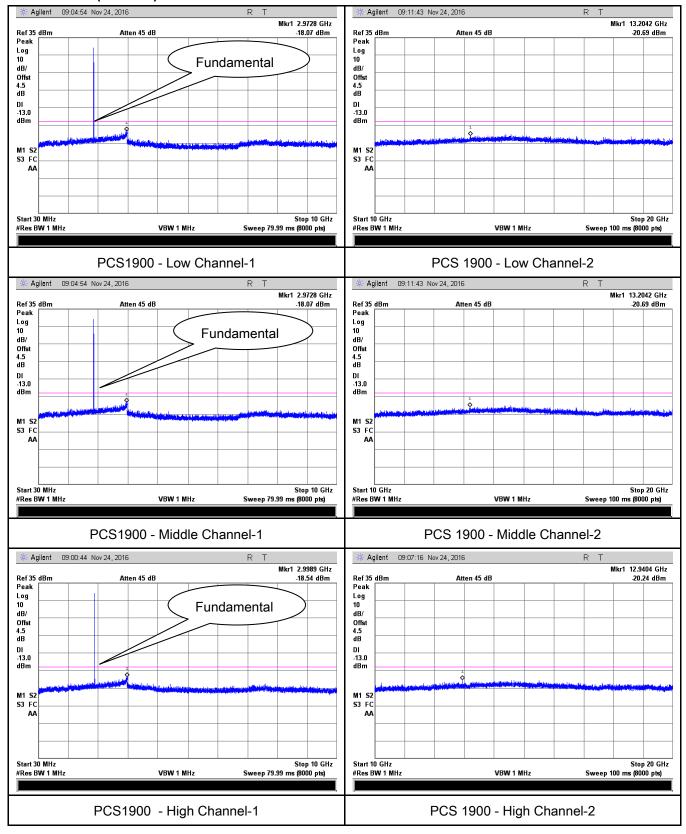
Cellular Band (Part 22H) result





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PCS Band (Part24E) result

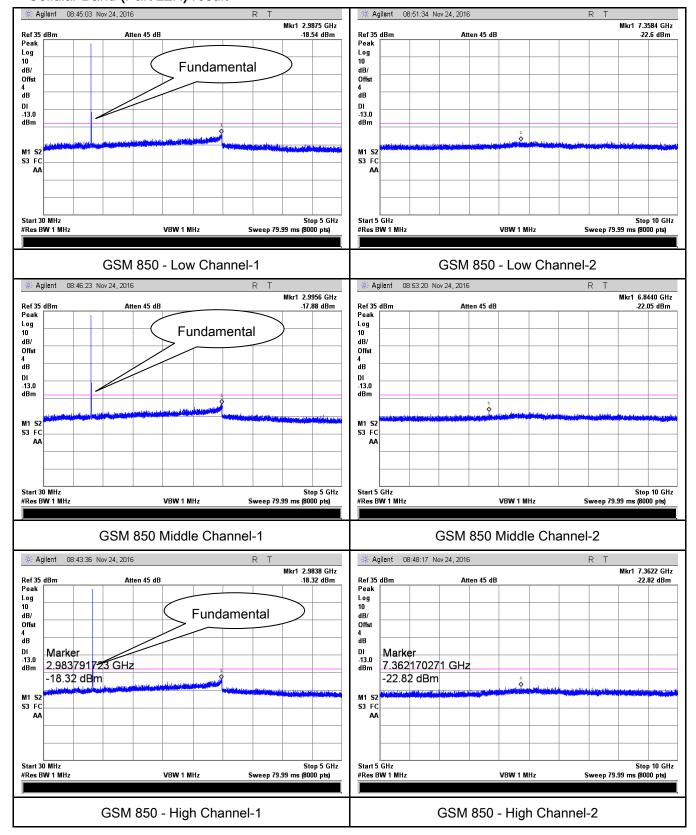




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GPRS:

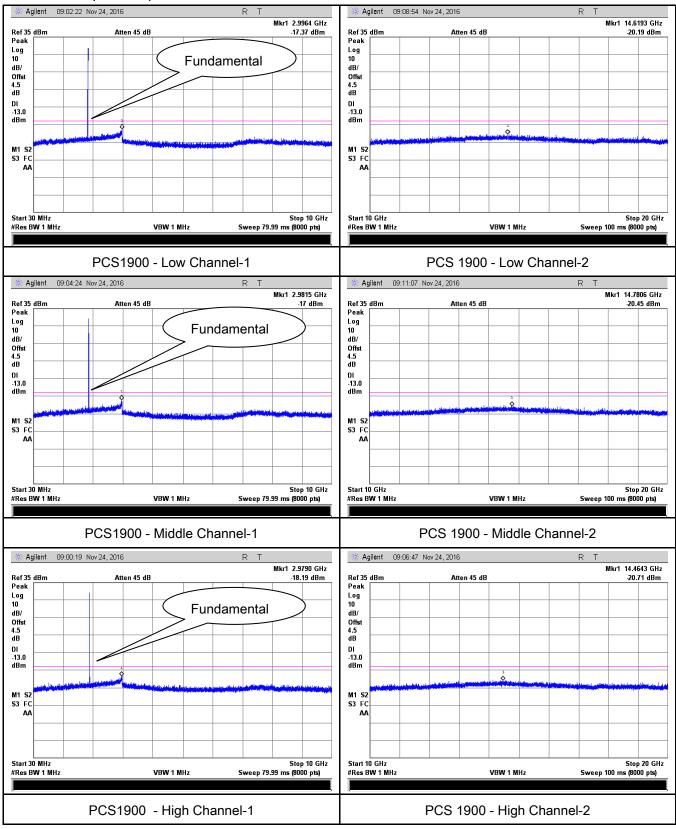
Cellular Band (Part 22H) result





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PCS Band (Part24E) result

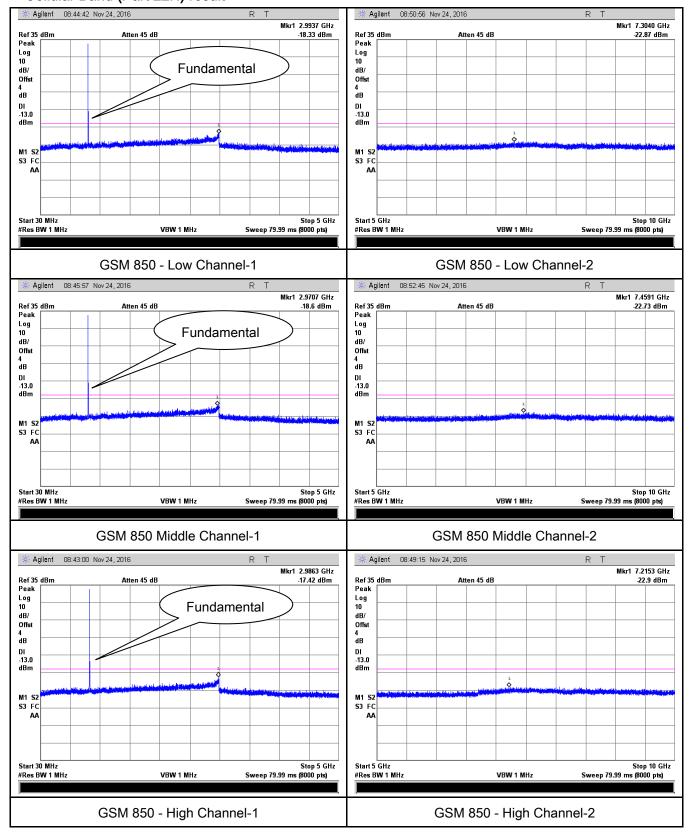




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EGPRS (MCS 5):

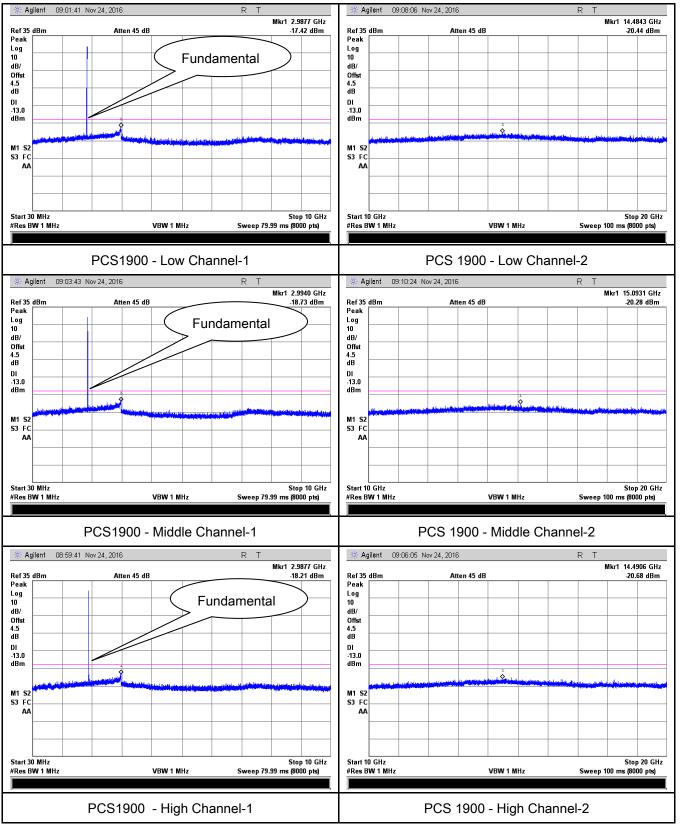
Cellular Band (Part 22H) result





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PCS Band (Part24E) result

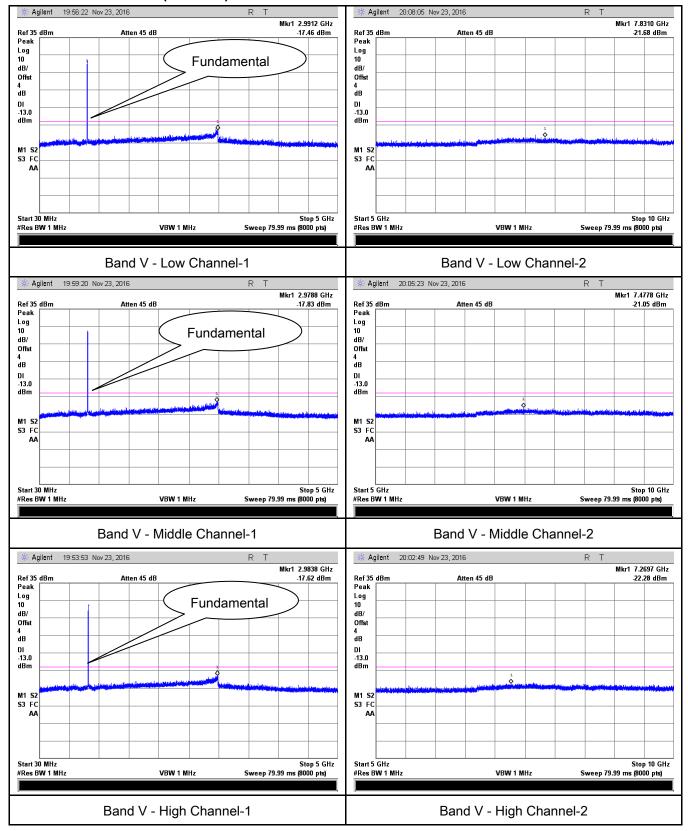




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RMC

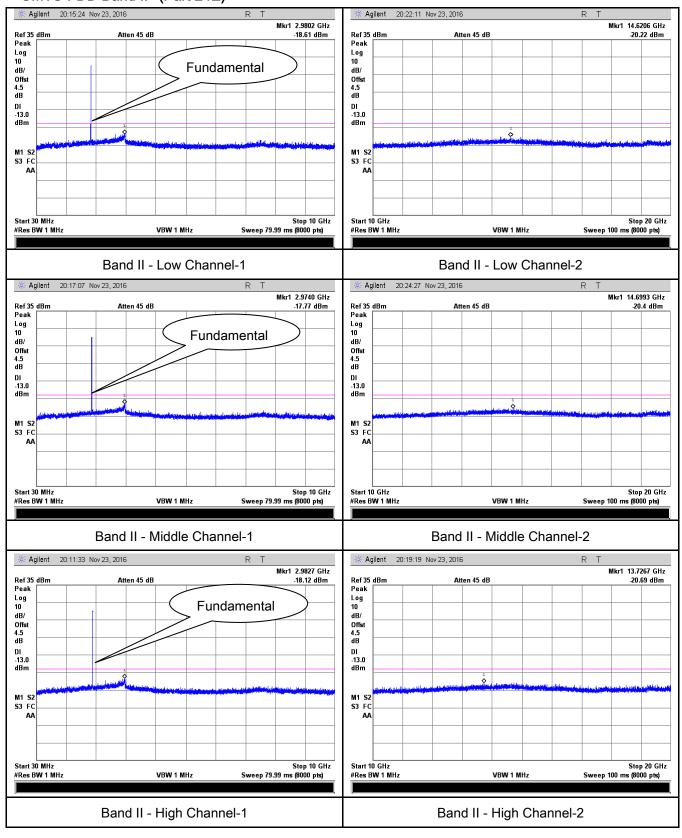
UMTS-FDD Band V (Part 22H)





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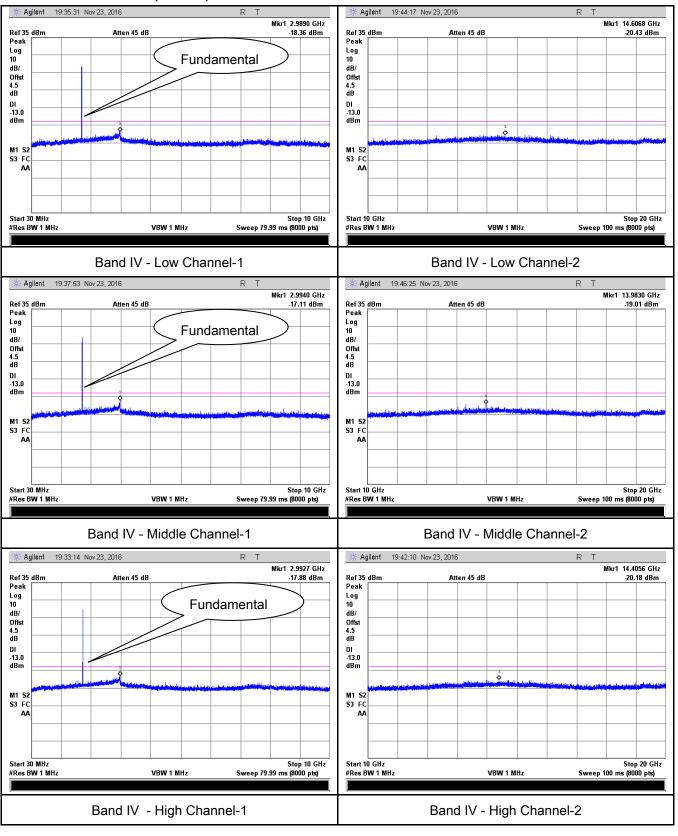
UMTS-FDD Band II (Part 24E)





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UMTS-FDD Band IV (Part 27)

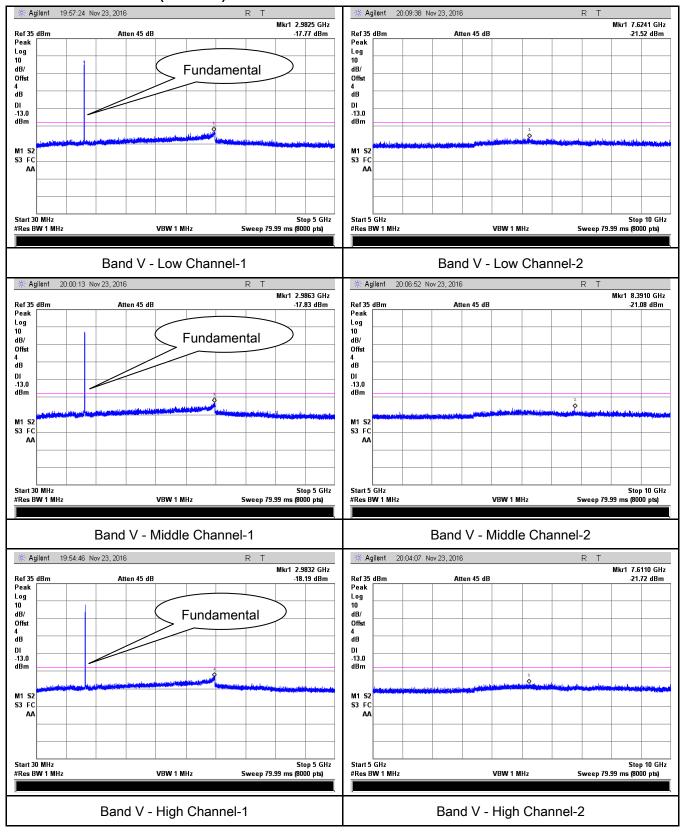




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HSUPA:

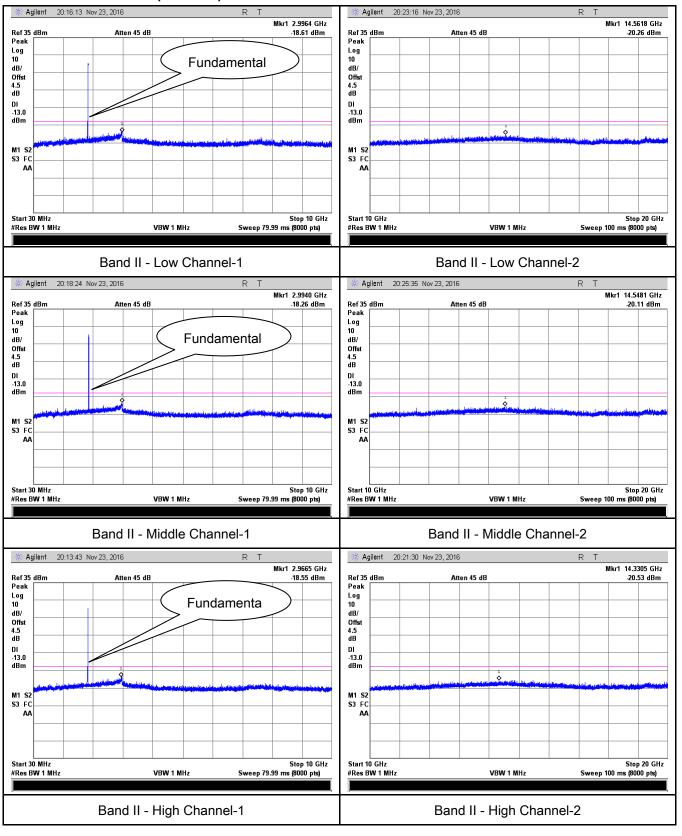
UMTS-FDD Band V (Part 22H)





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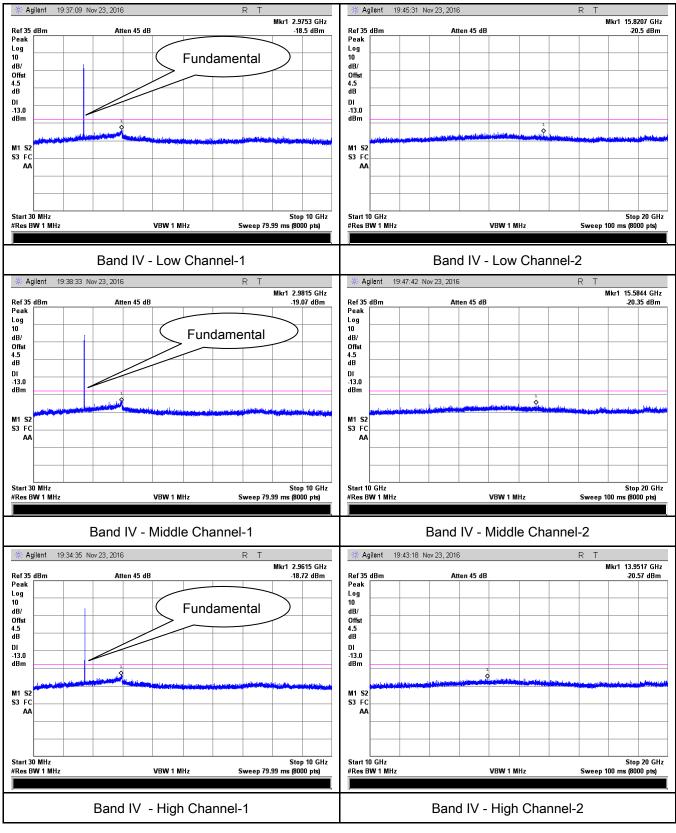
UMTS-FDD Band II (Part 24E)





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UMTS-FDD Band IV (Part 27)

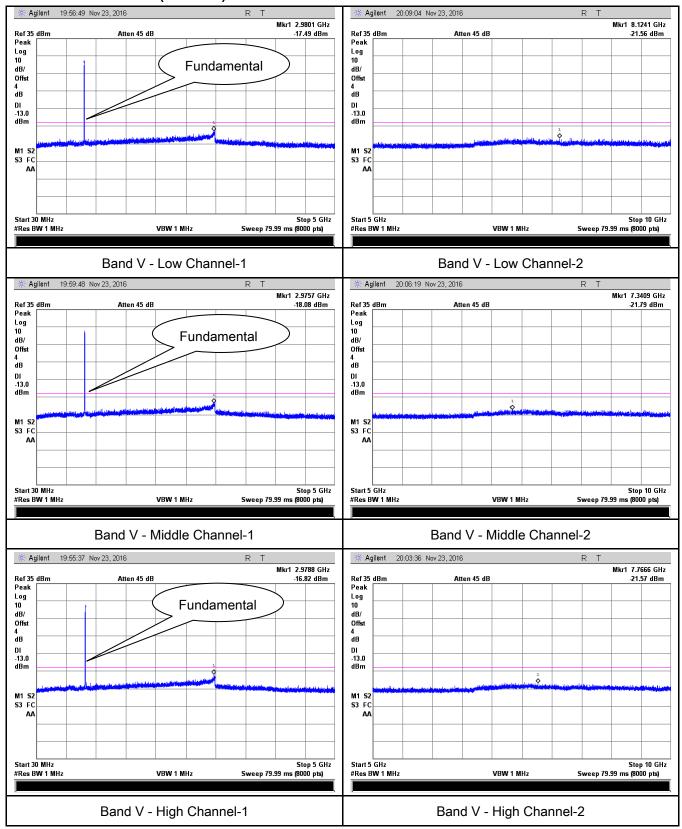




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HSDPA:

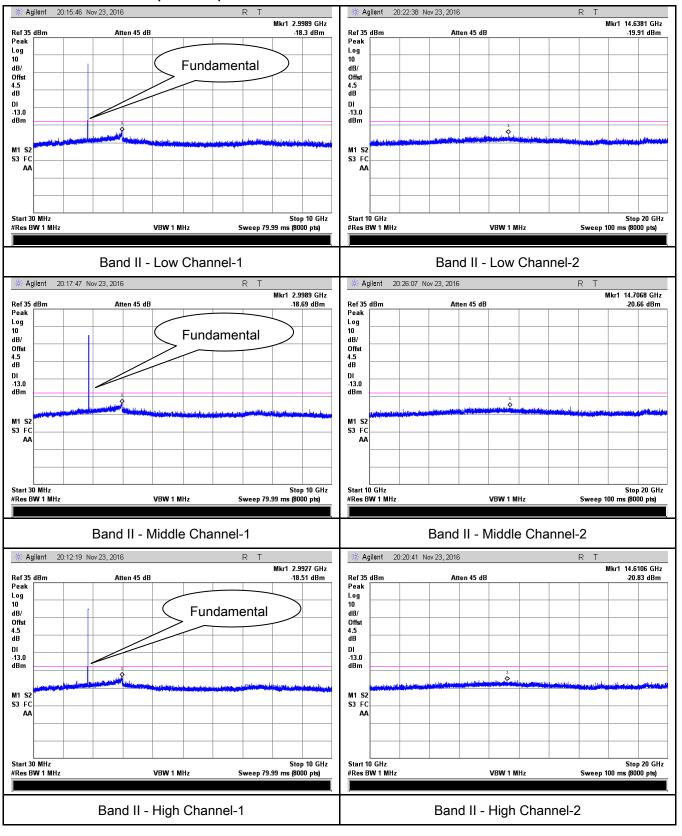
UMTS-FDD Band V (Part 22H)





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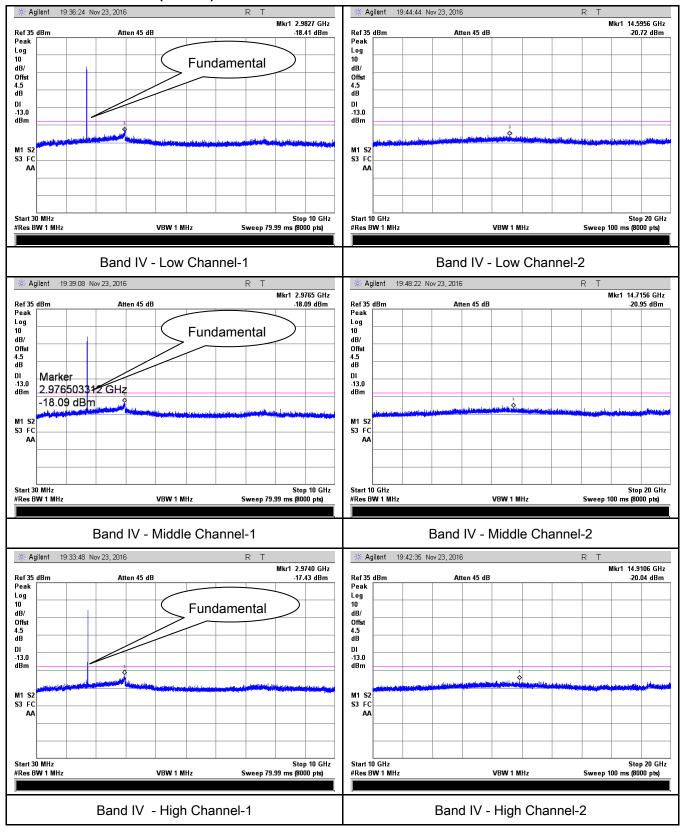
UMTS-FDD Band II (Part 24E)





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UMTS-FDD Band IV (Part 27)





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6.6 Spurious Radiated Emissions

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	November 23, 2016
Tested By:	Loren Luo

Requirement(s):		•	
Spec	Item	Requirement	Applicable
§2.1053, §22.917 & §24.238 § 27.53(h)	a)	V	
Test setup	EUTé Suppo	Turn Table	le
Test Procedure	radi 2. The Dur vari was 3. Rer con of tl Sar EUT	e transmitter was placed on a wooden turntable, and it was transmitter transmitter was also placed on the turntable. It measurement antenna was placed at a distance of 3 meters from the tests, the antenna height and polarization as well as EUT at led in order to identify the maximum level of emissions from the EUs performed by placing the EUT on 3-orthogonal axis. Independent of the substitution antenna by a non-radiating cable. The at the spurious emissions were measured by the substitution. The Field Strength = Raw Amplitude (dBµV/m) - Amplifier Gain (dE tor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)	a the EUT. azimuth were JT. The test enerator was bsolute levels



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Remark				
Result	Pass	☐ Fail		

Test Data Yes

Test Plot Yes (See below) N/A



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Cellular Band (Part 22H) 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)
1648.4	-43.86	V	7.95	0.78	-36.69	-13	-23.69
1648.4	-44.57	Н	7.95	0.78	-37.4	-13	-24.40
323.5	-52.94	V	6.4	0.26	-46.8	-13	-33.80
601.8	-53.27	Н	6.8	0.37	-46.84	-13	-33.84

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-43.58	V	7.95	0.78	-36.41	-13	-23.41
1673.2	-44.13	Н	7.95	0.78	-36.96	-13	-23.96
329.7	-52.67	V	6.4	0.26	-46.53	-13	-33.53
605.5	-52.84	Н	6.8	0.37	-46.41	-13	-33.41

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.6	-43.56	V	7.95	0.78	-36.39	-13	-23.39
1697.6	-44.39	Н	7.95	0.78	-37.22	-13	-24.22
328.4	-52.97	V	6.4	0.26	-46.83	-13	-33.83
604.6	-52.79	Н	6.8	0.37	-46.36	-13	-33.36

- 1, The testing has been conformed to 10*848.8MHz=8,488MHz
- 2, All other emissions more than 30 dB below the limit
- 3,GSM voice, GPRS and EGPRS mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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PCS Band (Part24E) 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)
3700.4	-48.75	V	10.25	2.73	-41.23	-13	-28.23
3700.4	-49.28	Η	10.25	2.73	-41.76	-13	-28.76
326.4	-53.64	V	6.4	0.26	-47.5	-13	-34.50
605.1	-54.28	Н	6.8	0.37	-47.85	-13	-34.85

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-49.31	V	10.25	2.73	-41.79	-13	-28.79
3760	-49.28	Н	10.25	2.73	-41.76	-13	-28.76
328.6	-53.64	V	6.4	0.26	-47.5	-13	-34.50
603.9	-54.28	Н	6.8	0.37	-47.85	-13	-34.85

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	-48.76	V	10.36	2.73	-41.13	-13	-28.13
3819.6	-49.54	Н	10.36	2.73	-41.91	-13	-28.91
325.1	-53.49	V	6.4	0.26	-47.35	-13	-34.35
600.3	-52.08	Н	6.8	0.37	-45.65	-13	-32.65

- 1, The testing has been conformed to 10*1909.8MHz=19,098MHz
- 2, All other emissions more than 30 dB below the limit
- $3, GSM\ voice\ ,\ GPRS\ and\ EGPRS\ mode\ were\ investigated.\ The\ results\ above\ show\ only\ the\ worse\ cases$
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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UMTS-FDD Band V (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1652.8	-46.87	٧	7.95	0.78	-39.7	-13	-26.70
1652.8	-46.18	Н	7.95	0.78	-39.01	-13	-26.01
327.3	-53.27	V	6.4	0.26	-47.13	-13	-34.13
606.5	-53.38	Н	6.8	0.37	-46.95	-13	-33.95

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1670	-46.87	V	7.95	0.78	-39.7	-13	-26.70
1670	-46.52	Н	7.95	0.78	-39.35	-13	-26.35
326.7	-52.69	V	6.4	0.26	-46.55	-13	-33.55
607.9	-52.97	Н	6.8	0.37	-46.54	-13	-33.54

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-46.73	V	7.95	0.78	-39.56	-13	-26.56
1693.2	-45.82	Η	7.95	0.78	-38.65	-13	-25.65
327.4	-53.42	V	6.4	0.26	-47.28	-13	-34.28
605.1	-53.29	Н	6.8	0.37	-46.86	-13	-33.86

- 1, The testing has been conformed to 10*846.6MHz=8,466MHz
- 2, All other emissions more than 30 dB below the limit
- 3,RMC, HSUPA and HSDPA mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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UMTS-FDD Band II (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3704.8	-49.57	V	10.25	2.73	-42.05	-13	-29.05
3704.8	-50.21	Н	10.25	2.73	-42.69	-13	-29.69
324.3	-53.85	V	6.4	0.26	-47.71	-13	-34.71
603.8	-53.49	Н	6.8	0.37	-47.06	-13	-34.06

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-49.67	V	10.25	2.73	-42.15	-13	-29.15
3760	-50.24	Н	10.25	2.73	-42.72	-13	-29.72
327.5	-53.68	V	6.4	0.26	-47.54	-13	-34.54
605.8	-53.45	Н	6.8	0.37	-47.02	-13	-34.02

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3815.2	-49.57	V	10.36	2.73	-41.94	-13	-28.94
3815.2	-49.82	Н	10.36	2.73	-42.19	-13	-29.19
330.9	-53.62	V	6.4	0.26	-47.48	-13	-34.48
599.8	-54.81	Н	6.8	0.37	-48.38	-13	-35.38

- 1, The testing has been conformed to 10*1907.6MHz=19,076MHz
- 2, All other emissions more than 30 dB below the limit
- 3,RMC, HSUPA and HSDPA mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case



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UMTS-FDD Band IV (Part 27)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3424.8	-46.32	V	10.07	2.52	-38.77	-13	-25.77
3424.8	-48.67	Η	10.07	2.52	-41.12	-13	-28.12
321.6	-57.29	٧	6.4	0.26	-51.15	-13	-38.15
735.8	-52.68	Н	7.1	0.42	-46	-13	-33.00

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3480	-46.37	V	10.09	2.52	-38.8	-13	-25.80
3480	-46.28	Н	10.09	2.52	-38.71	-13	-25.71
325.4	-57.13	V	6.4	0.26	-50.99	-13	-37.99
738.9	-53.69	Н	7.1	0.42	-47.01	-13	-34.01

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3505.2	-46.21	V	10.09	2.52	-38.64	-13	-25.64
3505.2	-45.43	Η	10.09	2.52	-37.86	-13	-24.86
323.7	-57.62	V	6.4	0.26	-51.48	-13	-38.48
736.4	-52.47	Н	7.1	0.42	-45.79	-13	-32.79

- 1, The testing has been conformed to 10*1752.6MHz=17.526MHz
- 2, All other emissions more than 30 dB below the limit
- 3, RMC , HSUPA and HSDPA mode were investigated. The results above show only the worse cases.
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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6.7 Band Edge

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	November 24, 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		
Test setup	Base Station Spectrum Analyzer EUT			
Procedure	-	 The EUT was connected to Spectrum Analyzer and Base Station via power divider. The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100. 		
Remark				
Result	☑ Pa	ss Fail		

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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GSM Voice:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9825	-16.96	-13
849.0225	-16.65	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-13.69	-13
1910.0175	-14.31	-13

GPRS:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9975	-15.30	-13
849.0200	-15.81	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-13.58	-13
1910.0225	-14.97	-13



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EGPRS (MCS5):

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9950	-16.09	-13
849.0200	-15.60	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-14.43	-13
1910.0175	-14.41	-13

RCM:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.775	-27.00	-13
849.250	-26.15	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.975	-24.21	-13
1910.125	-24.38	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.975	-24.25	-13
1755.650	-28.99	-13



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HSUPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.975	-27.50	-13
849.025	-26.17	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.975	-23.11	-13
1910.050	-25.10	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1708.975	-24.64	-13
1755.025	-28.52	-13

HSDPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.775	-27.70	-13
849.150	-26.27	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.975	-23.97	-13
1910.225	-24.96	-13



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UMTS-FDD Band IV (Part 27)

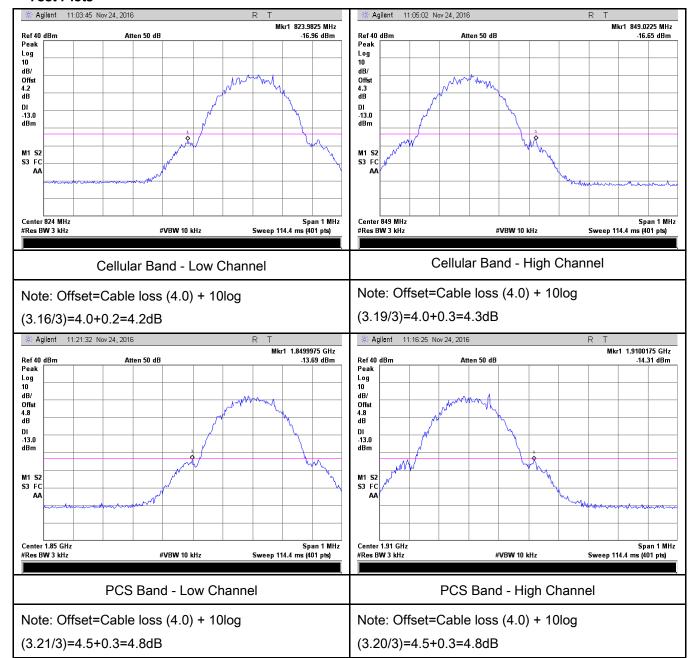
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.975	-24.56	-13
1755.175	-28.55	-13



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GSM Voice:

Test Plots

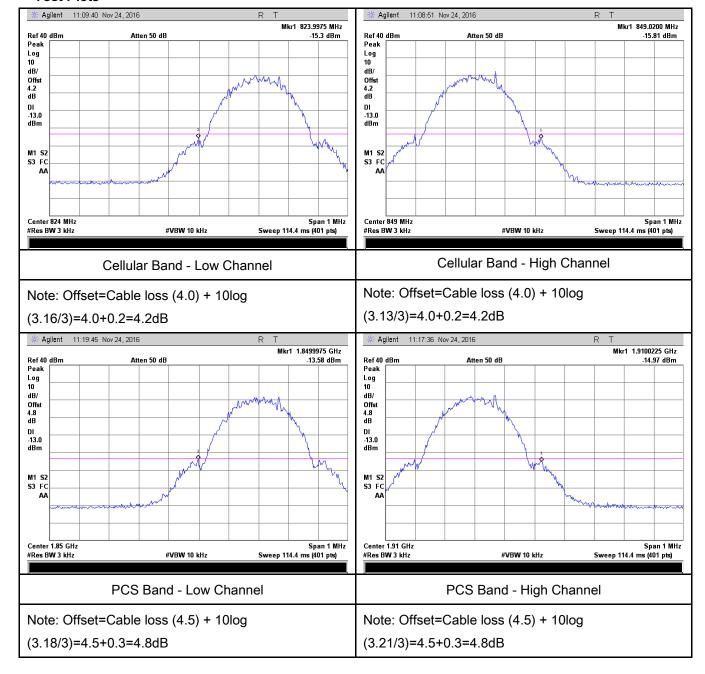




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GPRS:

Test Plots

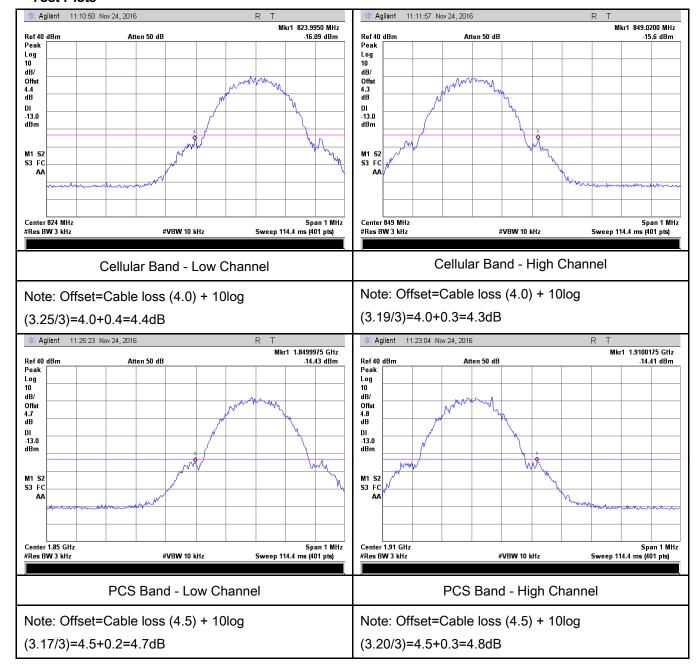




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EGPRS (MCS5):

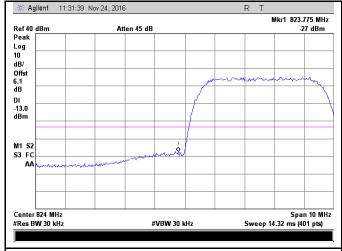
Test Plots

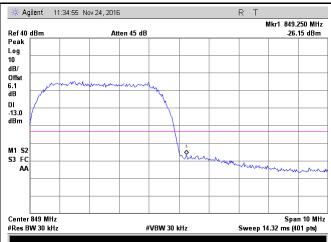




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RMC:





UMTS-FDD Band V - Low Channel

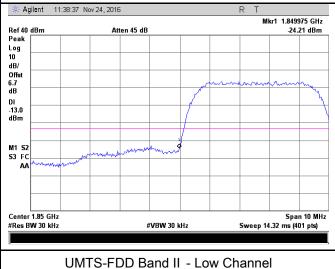
UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log

Note: Offset=Cable loss (4.0) + 10log

(48.77/30)=4.0+2.1=6.1 dB

(48.77/30)=4.0+2.1=6.1 dB





UMTS-FDD Band II - High Channel

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

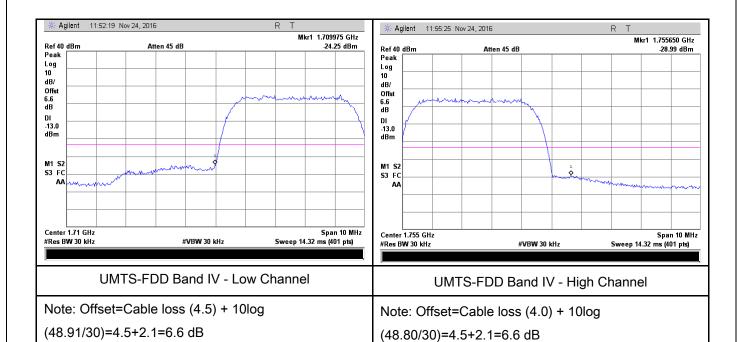
Note: Offset=Cable loss (4.5) + 10log

(49.29/30)=4.5+2.2=6.7 dB

(48.86/30)=4.5+2.1=6.6 dB



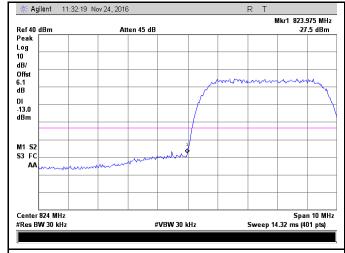
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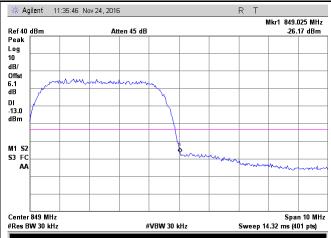




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HSUPA:





UMTS-FDD Band V - Low Channel

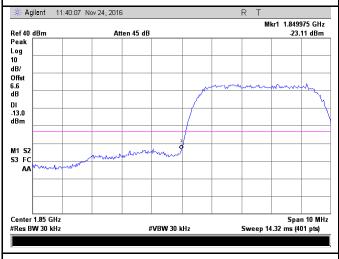
UMTS-FDD Band V - High Channel

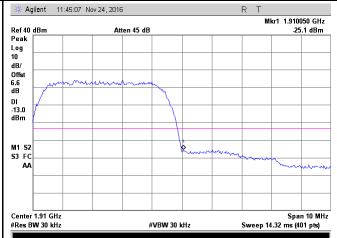
Note: Offset=Cable loss (4.0) + 10log

Note: Offset=Cable loss (4.0) + 10log

(48.85/30)=4.0+2.1=6.1 dB

(48.87/30)=4.0+2.1=6.1 dB





UMTS-FDD Band II - Low Channel

UMTS-FDD Band II - High Channel

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

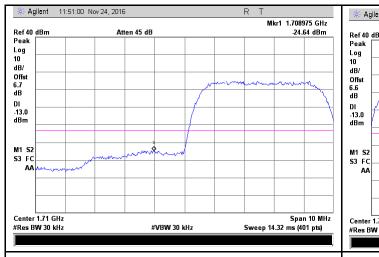
Note: Offset=Cable loss (4.5) + 10log

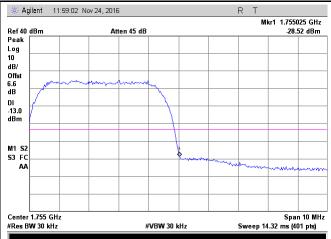
(49.29/30)=4.5+2.1=6.6 dB

(48.61/30)=4.5+2.1=6.6 dB



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UMTS-FDD Band IV - High Channel

UMTS-FDD Band IV - Low Channel

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

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

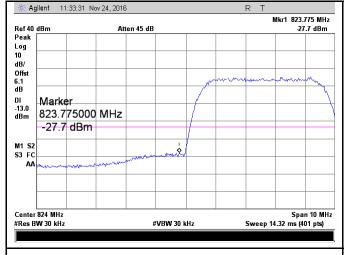
(48.71/30)=4.5+2.1=6.6 dB

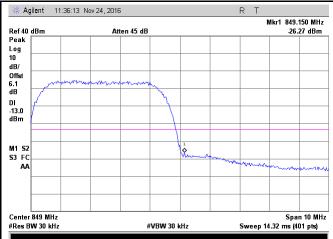
(49.23/30)=4.5+2.2=6.7 dB



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HSDPA:





UMTS-FDD Band V - Low Channel

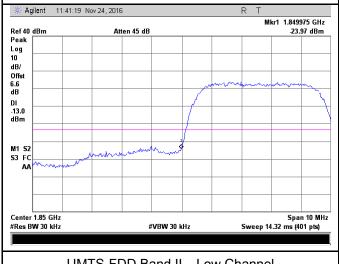
Note: Offset=Cable loss (4.0) + 10log

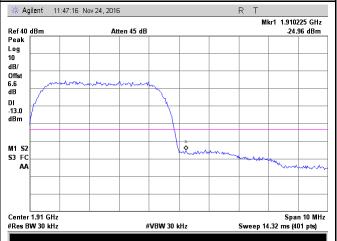
(48.84/30)=4.0+2.1=6.1 dB

UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log

(48.82/30)=4.0+2.1=6.1 dB





UMTS-FDD Band II - Low Channel

UMTS-FDD Band II - High Channel

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

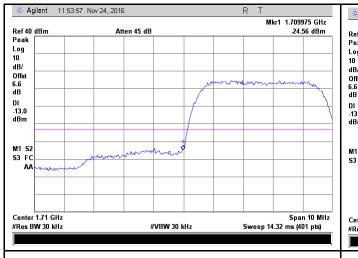
Note: Offset=Cable loss (4.5) + 10log

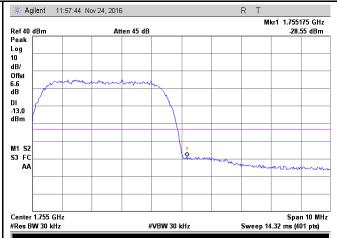
(49.04/30)=4.5+2.1=6.6 dB

(48.55/30)=4.5+2.1=6.6 dB



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UMTS-FDD Band IV - Low Channel

UMTS-FDD Band IV - High Channel

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

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

(49.04/30)=4.5+2.1=6.6 dB

(49.13/30)=4.5+2.1=6.6 dB



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6.8 Frequency Stability

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	November 23, 2016
Tested By :	Loren Luo

Requirement(s):

					Applicable
	Frequency Range	Base, fixed	Mobile ≤ 3 watts	Mobile ≤ 3 watts	
	(MHz)	(ppm)	(ppm)	(ppm)	
§22.355 &	25 to 50	20.0	20.0	50.0	~
	50 to 450	5.0	5.0	50.0	
	45 to 512	2.5	5.0	.0	
	821 to 896	1.5	2.5	2.5	
	928 to 29.	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 §24.235, the frequency stability shall be sufficient to				
	ensure that the fundamental emissions stay within the authorized				
	frequency block.				
est setup Base Station Thornel Chamber					
	a)	tolerances given in Frequency Tolerand Services Frequency Range (MHz) 25 to 50 50 to 450 45 to 512 821 to 896 928 to 29. 929 to 960. 2110 to 2220 According to §24.2 ensure that the fund frequency block.	tolerances given in Table below Frequency Tolerance for Transis Services Frequency Base, Range fixed (MHz) (ppm) 25 to 50 20.0 50 to 450 5.0 45 to 512 2.5 821 to 896 1.5 928 to 29. 5.0 929 to 960. 1.5 2110 to 2220 10.0 According to §24.235, the frequency block.	tolerances given in Table below: Frequency Tolerance for Transmitters in the Public Services Frequency Base, Mobile ≤ 3 Range fixed watts (MHz) (ppm) (ppm) 25 to 50 20.0 20.0 50 to 450 5.0 5.0 45 to 512 2.5 5.0 821 to 896 1.5 2.5 928 to 29. 5.0 N/A 929 to 960. 1.5 N/A 2110 to 2220 10.0 N/A According to §24.235, the frequency stability shale ensure that the fundamental emissions stay within frequency block.	tolerances given in Table below: Frequency Tolerance for Transmitters in the Public Mobile Services Frequency Base, Mobile ≤ 3 Mobile ≤ 3 Range fixed watts watts (MHz) (ppm) (ppm) (ppm) 25 to 50 20.0 20.0 50.0 50 to 450 5.0 5.0 50.0 45 to 512 2.5 5.0 .0 821 to 896 1.5 2.5 2.5 928 to 29. 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 §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.



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	A communication link was established between EUT and base station. The	
	frequency error was monitored and measured by base station under variation	
Procedure	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		
Result	Pass Fail	

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	▽ N/A



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GSM Voice:

Cellular Band (Part 22H) result

	Middle Channel, f₀ = 836.6 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		18	0.0215	2.5	
0		16	0.0191	2.5	
10	3.7	15	0.0179	2.5	
20		14	0.0167	2.5	
30		15	0.0179	2.5	
40		19	0.0227	2.5	
50		12	0.0143	2.5	
55		20	0.0239	2.5	
25	4.2	19	0.0227	2.5	
25	3.5	20	0.0239	2.5	

PCS Band (Part 24E) result

Middle Channel, f _o = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		15	0.0080	2.5
0		16	0.0085	2.5
10		14	0.0074	2.5
20	3.7	16	0.0085	2.5
30		17	0.0090	2.5
40		18	0.0096	2.5
50		13	0.0069	2.5
55		14	0.0074	2.5
25	4.2	15	0.0080	2.5
2 5	3.5	17	0.0090	2.5



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RMC:

UMTS-FDD Band V (Part 22H)

Middle Channel, f₀ = 835 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		15	0.0180	2.5
0		16	0.0192	2.5
10	3.7	16	0.0192	2.5
20		18	0.0216	2.5
30		14	0.0168	2.5
40		15	0.0180	2.5
50		16	0.0192	2.5
55		19	0.0228	2.5
25	4.2	17	0.0204	2.5
25	3.5	20	0.0240	2.5

UMTS-FDD Band II (Part 24E)

	Middle Channel, f _o = 1880 MHz			
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		18	0.0096	2.5
0		16	0.0085	2.5
10	3.7	15	0.0080	2.5
20		14	0.0074	2.5
30		19	0.0101	2.5
40		17	0.0090	2.5
50		15	0.0080	2.5
55		18	0.0096	2.5
25	4.2	14	0.0074	2.5
25	3.5	13	0.0069	2.5



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UMTS-FDD Band IV (Part 27)

Middle Channel, f _o = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		15	0.0180	2.5
0		16	0.0192	2.5
10	3.7	17	0.0204	2.5
20		18	0.0216	2.5
30		19	0.0228	2.5
40		14	0.0168	2.5
50		12	0.0144	2.5
55		14	0.0168	2.5
25	4.2	12	0.0144	2.5
3.5	3.5	19	0.0228	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	09/15/2016	09/14/2017	\
Power Splitter	1#	1#	08/31/2016	08/30/2017	~
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	V
Temperature/Humidity Chamber	UHL-270	001	10/08/2016	10/07/2017	\(\right\)
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	•
RF Power Sensor	Dare RPR3006C/P/W	AY554013	09/16/2016	09/15/2017	V
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	\
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	V
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/20/2016	09/19/2017	V
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/23/2016	09/22/2017	<u>\</u>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	V
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/16/2016	09/15/2017	V
Power Amplifier	SMC150D	R1553-0313	03/09/2016	03/08/2017	~
Power Amplifier	S41-25D	R1553-0314	05/27/2016	05/26/2017	~
Tunable Notch Filter	3NF-800/1000- S	AA4	08/31/2016	08/30/2017	V



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Tunable Notch Filter	3NF-	AM 4	08/31/2016	08/30/2017	V
Turiable Noteri Titter	1000/2000-S	AWI T	00/31/2010	00/30/2017	



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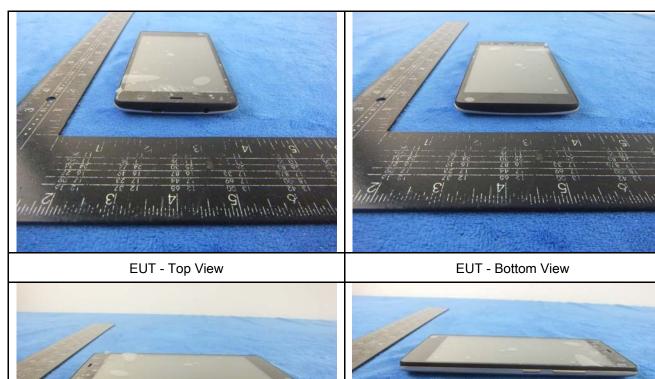
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





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EUT - Left View

Juditle and while white Made the

EUT - Right View



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Annex B.ii. Photograph: EUT Internal Photo



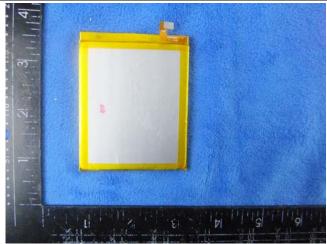
Cover Off - Top View 1



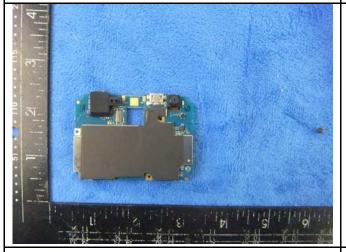
Cover Off - Top View 2



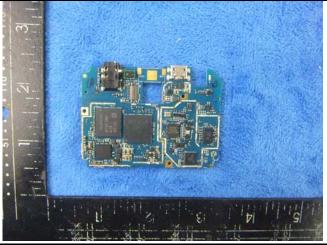
Battery - Front View



Battery - Rear View



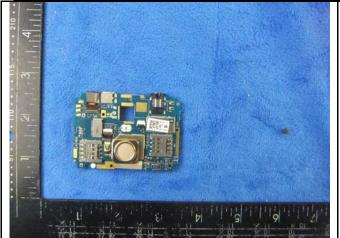
Mainboard with Shielding - Front View



Mainboard without Shielding - Front View



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Mainboard with Shielding - Rear View



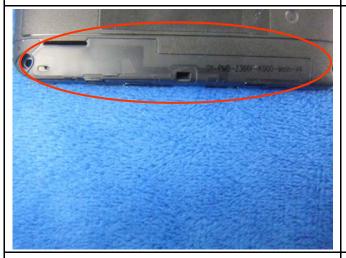
Mainboard without Shielding - Rear View



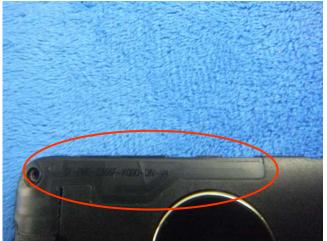
LCD - Front View



LCD - Rear View



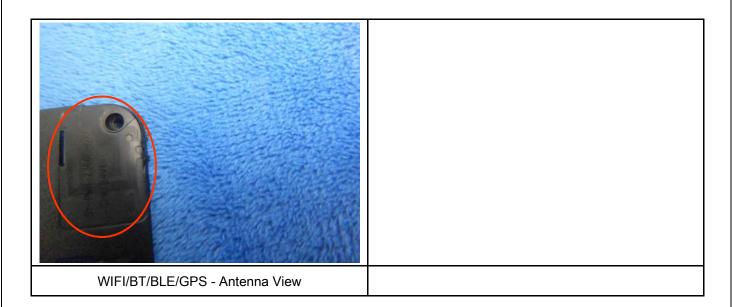
GSM/PCS/UMTS-FDD Antenna View



LTE - Antenna View



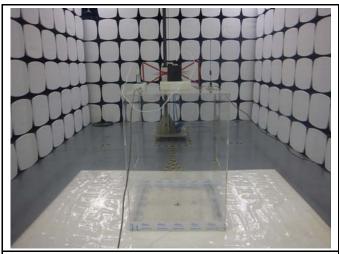
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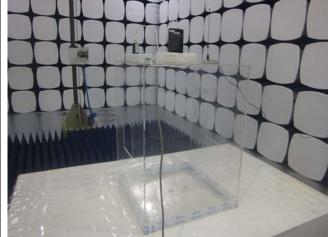


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Annex B.iii. Photograph: Test Setup Photo







Radiated Spurious Emissions Test Setup Above 1GHz

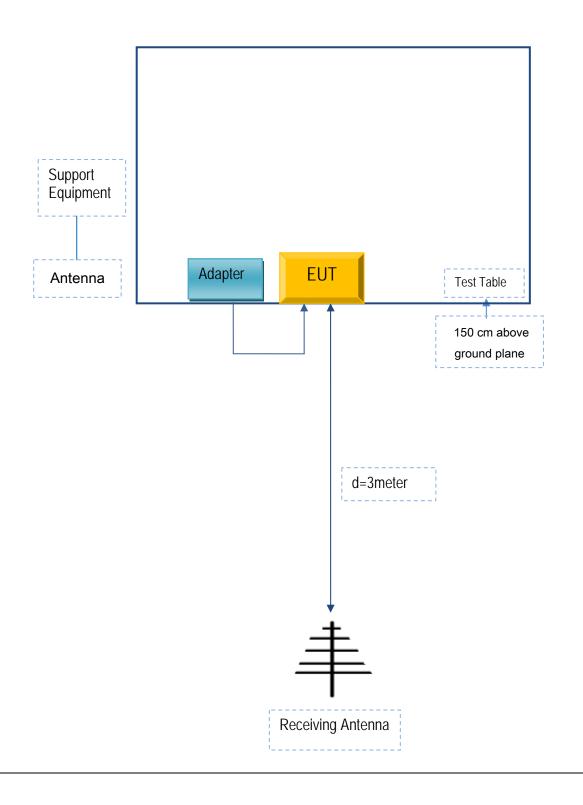


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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
Posh Mobile Limited	Adapter	A88-501500	S0523DF2

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	S0523DF2



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Annex C.ii. EUT OPERATING CONKITIONS

N/A



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

Please see the attachment



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Annex E. DECLARATION OF SIMILARITY

Posh Mobile Limited

To: SIEMIC,775 Montague Expressway, Milpitas, CA95035, USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list 4 model numbers on the FCC certificates and reports, as following:

Model No.: L551 L551A L551B L551C

We declare that, all the model PCB, Antenna and Appearance shape, accessories are the same.

The difference of these is listed as below:

Main Model No.	Serial Model No.	Difference
L551	L551A L551B L551C	Different model name and color

Thank you!

Signature:

Printed name/title: Warren Chan

Address: 1011A, 10/F., Harbour Centre Tower 1 No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong